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Program Product

**MVS/370 System
Programming Library:
Debugging Handbook
Volume 5
Data Areas S-Z**

**MVS/System Product
JES3 5740-XYN
MVS/System Product
JES2 5740-XY5**

IBM

First Edition (July, 1985)

This edition applies to Version 1 Release 3.5 of MVS/System Product - JES2 5740-XY5 and of MVS/System Product - JES3 5740-XYN until otherwise indicated in new editions or technical newsletters. See the Summary of Amendments following the Contents for a summary of the enhancements made in this manual. Changes are made periodically to the information herein; before using this publication in connection with the operation of IBM systems, consult the *System/370 Bibliography*, GC20-0001, for the editions that are applicable and current.

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Preface

This handbook provides reference information for use in debugging user or system programs. The user of this publication should have a working knowledge of MVS/370 functions and logic. It is intended for system programmers who are involved with debugging MVS system problems.

The handbook is divided into five volumes:

Volume 1 (LC28-1385)

- **Chapter 1. Problem Categories and Analysis** describes an approach to debugging based on identification and analysis of system status indicators.
- **Chapter 2. Debugging Aids** summarizes major MVS/370 debugging aids.
- **Chapter 3. Dump and Trace Formats** describes the output of debugging aids summarized in Section 2.
- **Chapter 4. Error Indicators** summarizes major system error indicators.
- **Chapter 5. General Reference** provides general reference information useful for debugging purposes.
- **Chapter 6. Control Block Chains** illustrates the logical relationships of major system data areas.

Volume 2 (LC28-1386)

- **Data Areas A-D** Describes the format of the data areas, and includes data areas frequently used in debugging.

Volume 3 (LC28-1387)

- **Data Areas E-M** Describes the format of the data areas, and includes data areas frequently used in debugging.

Volume 4 (LC28-1388)

- **Data Areas N-R** Describes the format of the data areas, and includes data areas frequently used in debugging.

Volume 5 (LC28-1389)

- **Data Areas S-Z** Describes the format of the data areas, and includes data areas frequently used in debugging.

Contents

Data Area Descriptions	1	SSJT	160
SAHT	1	SSMO	162
SART	2	SSMS	164
SAT	6	SSNQ	165
SCA	8	SSOB	166
SCB	9	SSRB	168
SCCB	11	SSRQ	172
SCCW	15	SSRR	173
SCD	39	SSSI	174
SCL	41	SSSO	175
SCT	44	SSUS	178
SCVT	50	SSVS	179
SDCT	54	SSVT	181
SDUMP	56	SSWA	183
SDWA	60	SSWT	184
SGTE	84	STKE	186
SIOT	85	SVCTABLE	188
SMCA	95	SVT	189
SMDLR	107	SWB	198
SMEW	113	TAXE	200
SMPL	115	TCAST	202
SPCT	117	TCB	205
SPL	123	TCCW	232
SPQE	125	TCT	236
SRB	126	TDCM	246
SSAG	129	TIOCBUF	265
SSAL	131	TIOCRPT	267
SSARB	134	TIOT	270
SSAT	136	TQE	274
SSCA	137	TSB	276
SSCF	138	TSVT	285
SSCI	140	TTE	287
SSCM	142	TVCS	298
SSCS	143	TVWA	300
SSCU	146	TWAR	307
SSCVT	147	UCB	314
SSDA	149	UCBCX	344
SSDD	151	UCBTYP	346
SSDM	152	UCM	359
SSDR	153	UPT	387
SSEN	155	VFCB	389
SSET	156	VRAMAP	391
SSIB	157	VUNT	401
SSJS	158	WMST	404

WQE	. . . . .	408	XDBA	. . . . .	432
WSAVTC	. . . . .	425	XPTE	. . . . .	434
WSAVTG	. . . . .	428	XSB	. . . . .	436
WSAVTL	. . . . .	430	XTLST	. . . . .	438

Summary of Amendments

**Summary of Amendments
for LC28-1389-0
as Updated July, 1985
by a major revision.
This edition supports
Version 1 Release 1.3.5 of MVS/System Product**

The new or changed data areas included are:

SCCB	TCT
SCL	TSVT
SDCT	UCB
SMCA	WSAVTC
SSSO	
SVT	
TCB	

Also, minor technical and editorial changes were made throughout the publication.

DATA AREA DESCRIPTIONS

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SAHT

Common Name : System/ASID Hash Table
Macro ID : ISGSAHT
DSECT Name : SAHT
Created by : ISGNASIM in global resource serialization private area.
Subpool and Key : 229 and key 0
Size : 1024 bytes
Pointed to by : GVTX - GVTXSAHT
Serialization : Global resource serialization Local Lock.
Function : Each System/ASID Hash Table entry contains a pointer to a chain of QEL anchors.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	8	SAHT	SYSTEM/ASID HASH TABLE
0	(0) CHARACTER	8	SAHTHDR	SYSTEM/ASID HASH TABLE HEADER
0	(0) CHARACTER	4	SAHTID	CONTROL BLOCK ACRONYM (SAHT)
4	(4) UNSIGNED	2	SAHTNENT	NUMBER OF ENTRIES IN TABLE
6	(6) CHARACTER	2		RESERVED
8	(8) CHARACTER	0	SAHTENTS	SYSTEM ASID HASH TABLE ENTRIES
0	(0) STRUCTURE	4	SAHTENT	SYSTEM/ASID HASH TABLE ENTRY
0	(0) ADDRESS	4	SAHTEQEL	ADDRESS OF FIRST QEL ANCHOR ON SYNONYM CHAIN

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SART

Common Name : Swap Activity Reference Table
 Macro ID : ILRSART
 DSECT Name : SART
 Created by : ILRASRIM
 Subpool and Key : 245 and key 0
 Size : 80 bytes plus (48 bytes for each swap data set); 1280 bytes maximum
 Pointed to by : ASMSART field of the ASMVT data area.
 Serialization : The SALLOC lock is used to serialize most of the SART header. Each SARTE is serialized by a special compare & swap lockword in the SARTE. The SCCW available queue (SARSCCWQ) and SRB count (SARSRBCT) in the SART header as well as the SCCW queue in each SARTE (SRESCCW) are serialized by compare & swap logic.
 Function : SART is the map relating the collection of logical swap sets of auxiliary storage to identifiable swap data sets (VSAM data spaces).

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	80	SART	SWAP ACTIVITY REFERENCE TABLE
0	(0) CHARACTER	80	SARTHDR	SART HEADER
0	(0) CHARACTER	4	SARID	SART IDENTIFIER. SET TO 'SART'
4	(4) SIGNED	4	SARSIZE	NO. OF SARTES IN THIS SART
8	(8) SIGNED	4	SARUSE	NUMBER OF SARTES IN USE
12	(C) ADDRESS	4	SARBPFNX	ADDRESS OF NEXT SARTE FROM WHICH TO ALLOCATE SWAP SETS ON A BPF FILE
16	(10) ADDRESS	4	SARFXDNX	ADDRESS OF NEXT SARTE FROM WHICH TO ALLOCATE SWAP SETS ON A FIXED HEAD FILE
20	(14) ADDRESS	4	SARMOVNX	ADDRESS OF NEXT SARTE FORM WHICH TO ALLOCATE SWAP SETS ON A MOVABLE HEAD FILE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) ADDRESS	4	SARSDNL	ADDRESS OF DATA SET NAME LIST IN CSA FOR THE SWAP DATA SETS
28	(1C) ADDRESS	4	SARSDCT	ADDRESS OF SWAP DEVICE TABLE
THE FOLLOWING NAMES ARE UNIQUE FOR THE SART HEADER				
32	(20) ADDRESS	4	SARSCCWQ	QUEUE OF AVAILABLE SCCWS
36	(24) SIGNED	4	SARSETCT	NUMBER OF SWAP SETS CURRENTLY AVAILABLE ON ALL SWAP DATA SETS
40	(28) CHARACTER	8	SARWAITQ	WAIT QUEUE OF AIAS WAITING FOR AVAILABLE SWAP RESOURCES
40	(28) ADDRESS	4	SARWAITF	ADDRESS OF FIRST AIA ON QUEUE
44	(2C) ADDRESS	4	SARWAITL	ADDRESS OF LAST AIA ON QUEUE
48	(30) ADDRESS	4	SARSRBP	ADDRESS OF SRB USED TO SCHEDULE SWAP DRIVER
52	(34) SIGNED	4	SARSRBCT	COUNT OF SRBS SCHEDULED FOR SWAP DRIVER WHICH HAVE NOT BEEN DISPATCHED-EITHER ZERO OR ONE.
56	(38) SIGNED	4	SARSETSZ	NO. OF PAGES/SLOTS IN SWAP SET
60	(3C) CHARACTER	20		RESERVED
80	(50) CHARACTER	0	SARENTS	SART ENTRIES
0	(0) STRUCTURE	48	SARTE	SART ENTRY
0	(0) ADDRESS	4	SRENEXT	NEXT SARTE IN CIRCULAR CHAIN

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
4	(4) SIGNED	4	SRELOCK	C&S LOCK TO SERIALIZE SWAP DRIVER PROCESSING
8	(8) CHARACTER	1	SREFLG0	SARTE FLAGS RESERVED
	1111			
	.... 1...		SREBPF	1 => THIS DATA SET IS ASSOCIATED WITH A BPF CACHE
	.... .1..		SRESPP	1 => USE SET PAGING PARAMETERS CCW
	.... ..11			RESERVED
9	(9) CHARACTER	1	SREFLG	SARTE FLAGS
	1...		SRENUSE	1 = SARTE CURRENTLY NOT IN USE 0 = THIS SARTE IN USE
	.1...		SREDSBD	1 = ASM HAS DETECTED ERRORS PRECLUDING USE OF THIS DATA SET 0 = SWAP DATA SET SATISFACTORY FOR USE
	..1.		SREDRIVE	SWAP DRIVER REDRIVE FLAG
	...1		SREFIXED	FIXED HEAD FILE FLAG 1 = SARTE FOR FIXED HEAD DEVICE 0 = SARTE FOR MOVABLE HEAD DEVICE
	.... 1...		SREREQD	REQUEST QUEUED DURING ILRSWAP PROCESSING
	.... .1..		SREASGN	LSID LAST USED AS READ
	.... ..1.		SREFUSE	IORB MARKED BUSY
	.... ...1		SRECKD	ON = EXTENDED CKD ARCHITECTURE CCW'S ALLOWED FOR THIS DATASET. OFF = NOT ALLOWED.
10	(A) SIGNED	2	SRENN	SARTE NUMBER FOR THIS SARTE
12	(C) ADDRESS	4	SRESCCW	FIRST IN A CHAIN OF ONE OR MORE SCCWS WAITING TO BE STARTED
16	(10) SIGNED	4	SRETOTSL	TOTAL NUMBER OF SWAP SETS ON THIS DATA SET
20	(14) SIGNED	4	SREAVLSL	COUNT OF AVAILABLE SWAP SETS ON THIS DATA SET
24	(18) SIGNED	4	SRERRCNT	COUNT OF ERROR SWAP SETS ON THIS DATA SET
28	(1C) ADDRESS	4	SREIORB	FIRST IORB FOR THIS DATA SET

SART

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
32	(20) ADDRESS	4	SRESAT	PTR TO SAT FOR THIS DATA SET
36	(24) ADDRESS	4	SRESDCTE	PTR TO SDCTE FOR THIS DATA SET
40	(28) ADDRESS	4	SREEDB	PTR TO EDB FOR THIS DATA SET
44	(2C) ADDRESS	4	SREUCB	PTR TO UCB FOR THIS DATA SET

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SAT

Common Name : Swap Allocation Table
 Macro ID : ILRSAT
 DSECT Name : SAT
 Created by : ILRASRIM, ILRPGEXP
 Subpool and Key : 245 and key 0
 Size : 36 plus number of swap sets in the swap data set
 Pointed to by : SRESAT field of the SARTE data area within the SART data area.
 Serialization : The SATMAPs are serialized by the SALLOC lock.
 Function : The SAT is a concise representation of the allocation of swap sets within a swap data set.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	36	SAT	SWAP ALLOCATION TABLE
0	(0) CHARACTER	36	SATHDR	SAT HEADER
0	(0) CHARACTER	4	SATID	SAT IDENTIFIER. SET TO 'SAT'
4	(4) ADDRESS	4	SATSARTE	POINTER TO ASSOCIATED SARTE
8	(8) SIGNED	2	SATMAPLN	NUMBER OF BYTES IN SATMAP
10	(A) SIGNED	2	SATBYTCL	THE POWER OF 2 REPRESENTING THE NUMBER OF BYTES REQUIRED TO MAP A SINGLE CYLINDER FOR THIS DEVICE TYPE (ZERO ORIGIN)
12	(C) CHARACTER	2	SATRSV1	RESERVED
14	(E) CHARACTER	1	SATMASK	BYTE MASK FOR LAST SWAP SET FREED
15	(F) CHARACTER	1		RESERVED
16	(10) CHARACTER	4	SATRSV2	RESERVED
20	(14) SIGNED	4	SATSLTNO	SLOT NUMBER OF LAST SWAP SET FREED
24	(18) ADDRESS	4	SATASGN	ADDR OF THE SATMAP IN WHICH THE LAST SWAP SET RESIDES

SAT

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) CHARACTER	4	SATCCHHB	CCHH OF BEGINNING OF DATA SET
32	(20) CHARACTER	4	SATCCHHE	CCHH OF END OF DATA SET
36	(24) CHARACTER	0	SATMAPS	SWAP SET BYTE MAPS. THE NUMBER OF BYTES REQUIRED TO MAP A CYLINDER IS DEPENDENT ON THE DEVICE TYPE AND IS MAINTAINED IN SATBYTCL.

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SCA

Common Name : SPIE Control Area
Macro ID : IHASCA
DSECT Name : SCA
Created by : IEAVTB00(IGC0001D) SPIE service (SVC) routine
Subpool and Key : 245 and key 0
Size : 68 bytes including SRB
Pointed to by : TCBPIE field of the TCB data area
Serialization : Local lock and task active mode
Function : Provides information to program check FLIH in its processing of program interruptions covered by a SPIE EXIT. Also contains storage used as an SRB by program check FLIH.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SCA	
0	(0) ADDRESS	4	SCAPIE	ADDRESS OF PIE
4	(4) CHARACTER	1	SCAPMASK	PROGRAM MASK AT TIME OF SPIE INITIATION. RESTORED AT SPIE NULLIFICATION.
5	(5) CHARACTER	3	SCARESV	RESERVED FOR FUTURE USE
8	(8) CHARACTER	16	SCAPARMS	PROG CHECK FLIH'S SRB PARMS
24	(18) ADDRESS	4	SCARPPTR	RECOVERY PIE PICA ADDRESS
28	(1C) ADDRESS	4	SCAFRPPQ	FREE RPIEPICA QUEUE HEADER
32	(20) SIGNED ..1.	4	SCASRB SCALEN	SRB USED BY PROG CHECK FLIH "*-SCA" LENGTH OF SCA EXCLUDING THE SRB

SCA

SCA

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SCB

Common Name : STAE Control Block
 Macro ID : IHASCB
 DSECT Name : SCB
 Created by : IEAVSTA0
 Subpool and Key : 255 and key 0
 Size : 20 bytes
 Pointed to by : TCBSTABB field of the TCB data area
 SCBCHAIN field of the SCB data area
 Serialization : None
 Function : The SCB is used to make STA/ESTA recovery known to the system.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	24	SCB	
0	(0) ADDRESS	4	SCBCHAIN	POINTER TO NEXT SCB ON CHAIN
4	(4) ADDRESS	4	SCBEXIT	POINTER TO USER WRITTEN EXIT ROUTINE
8	(8) ADDRESS	4	SCBPARM	ADDRESS OF PARAMETER LIST FOR STA EXIT
8	(8) CHARACTER	1	SCBFLGS1	FIRST FLAG BYTE...
	1... ..		SCBSTAI	STAI SCB
	.1... ..		SCBSTAR	STAR SCB SCB IS FOR STAE IF NEITHER SCBSTAI NOR SCBSTAR BIT IS SET ON
	..1.		SCBDUMMY	DUMMY SCB (WILL NOT BE SCHEDULED) X'10' (RESERVED) X'08' (RESERVED)
	...1		SCBESTAE	ESTAE INDICATOR
	.... 1...		SCBTOKEN	ESTAE ESTABLISHED WITH TOKEN
	.... .1..		SCBASYN	ALLOW ASYNCHRONOUS INTERRUPTS
	.... ..11		SCBIOPRC	I/O PROCESSING OPTION, BITS 6 AND 7-- 00 QUIESCE I/O 01 HALT I/O 10 BYPASS I/O INTERVENTION 11 (RESERVED)
	.... ..1.		SCBNOIOP	BYPASS I/O INTERVENTION
1		SCBHALT	HALT I/O
9	(9) ADDRESS	3	SCBPARMA	ADDRESS OF PARAMETER LIST FOR STA EXIT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) ADDRESS	4	SCBOWNR	TCB/RB ADDRESS CONTROLLING THIS SCB
12	(C) CHARACTER	1	SCBFLGS2	SECOND FLAG BYTE...
	1... ..			RESERVED
	.1.. ..		SCBXCTL2	RETAIN THIS SCB ACROSS XCTL X'40' (RE- SERVED)
	..1.			RESERVED
	...1		SCBINUSE	THIS SCB IN USE X'08' (RESERVED) X'04' (RESERVED)
	.... 1...			RESERVED
	.... .1..			RESERVED
	.... ..1.		SCBKEY0	USER IN KEY 0
	.... ...1		SCBSUPER	USER IN SUPERVISOR MODE
13	(D) ADDRESS	3	SCBOWNRA	RB ADDRESS IF STAE/STAR, TCB ADDRESS IF STAI.
16	(10) ADDRESS	4	SCBDATA	FLAGS AND DATA FIELD
16	(10) CHARACTER	1	SCBFLGS3	OPTION FLAGS
	1... ..		SCBSTAUT	(E)STAE REQUESTOR IS AUTHORIZED
	.1.. ..		SCBTERMI	AUTHORIZED FOR SPECIAL TERM PROCESSING
	..1.		SCBRECRD	ON INDICATES ERROR RECORD TO BE WRITTEN TO SYS1.LOGREC
	...1		SCBCNCEL	SCB IS LOGICALLY CANCELED
	.... 1...		SCBPRNTR	SCB PREVIOUSLY ENTERED
	.... .1..		SCBBRNTR	BRANCH ENTERED SVC 60
	.... ..1.		SCBTERMO	TERM PROCESSING ONLY
	.... ...1			RESERVED
17	(11) CHARACTER	1	SCBPKEY	PROGRAM KEY
18	(12) CHARACTER	1	SCBID	SCB IDENTIFIER
19	(13) CHARACTER	1	SCBRVRE	RESERVED
20	(14) ADDRESS	4	SCBXPTR	POINTER TO SCB EXTENSION

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SCCB

Common Name : Service Call Control Block

Macro ID : IHASCCB

DSECT Name :

Created by : IEAIPL00

Subpool and Key : Caller's area - Caller's subpool and key
 CVTSCPIN are - subpool 245 and key 0

Size :

bytes

Pointed to by : CVTSCPIN field of the CVT data area
 Caller's pointer

Serialization : N/A

Function : Maps the common fields of the SCCB for all service processor commands and the data area returned from the service processor architecture command STORE SCP INFO.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SCCB	SERVICE CALL CONTROL BLOCK.
0	(0) CHARACTER	8	SCCBHEAD	SERVICE CALL CONTROL BLOCK HEADER.
0	(0) SIGNED	2	SCCBLNG	LENGTH OF THE ENTIRE SCCB (MAXIMUM 4096).
2	(2) CHARACTER	1	SCCBFLAG	CALLER FLAGS. COMMAND DEPENDENT.
3	(3) CHARACTER	3	SCCBR003	RESERVED.
6	(6) SIGNED	2	SCCBRSP	SERVICE PROCESSOR RESPONSE.
6	(6) HEX	1	SCCBREAS	SERVICE PROCESSOR REASON CODE.
7	(7) HEX	1	SCCBRCC	SERVICE PROCESSOR RESPONSE CLASS CODE.
8	(8) CHARACTER	4088	SCCBCMDD	VARIABLE LENGTH COMMAND DEPENDENT DATA.
4096 (1000)	FLOATING	8	SCCBEND	END OF SCCB.

COMMAND DEPENDENT DATA FROM
 READ SCP INFO COMMAND.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
8	(8) SIGNED	4	SCCBSCPI	MAPPING OF SCCB COMMAND DEPENDENT DATA FIELD, SCCBCMDD, FOR SERVICE PROCESSOR COMMAND READ SCP INFO.
8	(8) HEX	2	SCCBSAR	REAL STORAGE ADDRESS RANGE. MAXIMUM STORAGE INCREMENT NUMBER INSTALLED.
10	(A) HEX	1	SCCBSAI	REAL STORAGE ADDRESS INCREMENT, IN UNITS OF 1M.
11	(B) HEX	1	SCCBSBS	REAL STORAGE BLOCK SIZE IN UNITS OF 1K.
12	(C) HEX	2	SCCBSII	REAL STORAGE INCREMENT BLOCK INTERLEAVE INTERVAL.
14	(E) CHARACTER	2	SCCBR00E	RESERVED.
16	(10) SIGNED	2	SCCBNCPS	NUMBER OF CPUS INSTALLED.
18	(12) SIGNED	2	SCCB0CP	SCCB OFFSET TO CPU DATA ARRAY MAPPED BY SCCBCP.
20	(14) SIGNED	2	SCCBNHSA	NUMBER OF HSAS.
22	(16) SIGNED	2	SCCB0HSA	SCCB OFFSET TO HSA DATA ARRAY MAPPED BY SCCBHSA.
24	(18) CHARACTER	8	SCCBPARM	LOAD PARAMETER INFORMATION FROM SERVICE PROCESSOR.
32	(20) CHARACTER	16	SCCBR020	RESERVED.
48	(30) CHARACTER	8	SCCBIFM	INSTALLED FACILITY MAP.
48	(30) CHARACTER	1	SCCBIFM1	INSTALLED FACILITY MAP BYTE 1.
	1... ..		SCCBCHSI	"X'80'" CHANNEL SET INFORMATION INSTALLED.
	..1.		SCCBCHPR	"X'20'" CHANNEL PATH RECONFIGURATION INSTALLED.
	.... 1...		SCCBCPUI	"X'08'" CPU INFORMATION INSTALLED.
	.... .1..		SCCBPUR	"X'04'" CPU RECONFIGURATION INSTALLED.
49	(31) CHARACTER	1	SCCBIFM2	INSTALLED FACILITY MAP BYTE 2.
	1... ..		SCCB0GNL	"X'80'" SIGNAL ALARM INSTALLED.
	..1.		SCCBSTST	"X'20'" STORE STATUS ON LOAD INSTALLED.

SCCB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		SCCBRSTR	"X'10'" RESTART REASONS INSTALLED.
	.... 1...		SCCBITRC	"X'08'" INSTRUCTION ADDRESS TRACE BUFFER INSTALLED.
	.... .1..		SCCBLPRM	"X'04'" LOAD PARAMETER INSTALLED.
	.... ..1.		SCCBWDAT	"X'02'" READ AND WRITE DATA INSTALLED.
50	(32) CHARACTER	1	SCCBIFM3	INSTALLED FACILITY MAP BYTE 3.
	1...		SCCBSIR	"X'80'" STORAGE INCREMENT RECONFIGURA- TION INSTALLED.
	.1..		SCCBSEI	"X'40'" STORAGE ELEMENT INFORMATION INSTALLED.
	..1.		SCCBSER	"X'20'" STORAGE ELEMENT RECONFIGURATION INSTALLED.
	...1		SCCBCARS	"X'10'" COPY AND REASSIGN STORAGE INSTALLED.
51	(33) CHARACTER	5	SCCBIFM4	INSTALLED FACILITY MAP BYTES 4-8.
56	(38) CHARACTER	72	SCCBR038	RESERVED.
128	(80) HEX	1	SCCBDATA	DATA ARRAYS.
ARRAY OF CPU INFORMATION FROM READ SCP INFO COMMAND. (SCCBNCPS ENTRIES. ENTRIES BEGIN AT ADDR(SCCB)+SCCB0CP.)				
0	(0) STRUCTURE	0	SCCBCP	CPU INFORMATION ENTRY.
0	(0) HEX	1	SCCBCPA	CPU ADDRESS.
1	(1) HEX	1	SCCBTOD#	TOD CLOCK NUMBER FOR THIS CPU.
2	(2) HEX	14		RESERVED.
ARRAY OF HSA INFORMATION FROM READ SCP INFO COMMAND. (SCCBNHSA ENTRIES. ENTRIES BEGIN AT ADDR(SCCB)+SCCB0HSA.)				
0	(0) STRUCTURE	0	SCCBHSA	HSA INFORMATION ENTRY.

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) HEX	2	SCCBHSSZ	SIZE OF THIS HSA IN UNITS OF 4K.
2	(2) HEX	4	SCCBAHSA	ADDRESS OF THIS HSA.

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SCCW

Common Name : Swap Channel Command Work Area

Macro ID : ILRSCCW

DSECT Name : SCCW

Created by : ILRASRIM

Subpool and Key : Nucleus buffer and key 0

Size : 520 bytes

Pointed to by : IORSCCW field of the IORB data area
 SCCWSCCW field of the SCCW data area
 SARSCCWQ field of the SART data area

Serialization : The SCCW is serialized by the SCCW available queue. The SCCW is kept on an available queue and removed when needed.

Function : SCCW describes the string of channel command words which are passed by the I/O manager to the channel for I/O processing of a swap set.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	520	SCCW	BASE STRUCTURE IS SCCW
0	(0) CHARACTER	208	SCCWHDR	HEADER FOR SCCW
0	(0) CHARACTER	4	SCCWID	SCCW IDENTIFIER 'SCCW'
4	(4) UNSIGNED	1	SCCWSECT	SECTOR VALUE FOR SET SECTOR
5	(5) BITSTRING	1	SCCWFLAG	SCCW FLAGS
	1... ..		SCCWERR	I/O ERROR FLAG 1 = THIS SCCW SUFFERED AN I/O ERROR 0 = NO ERROR THIS SCCW
	.111 1111			RESERVED
6	(6) CHARACTER	6		RESERVED
12	(C) ADDRESS	4	SCCWSCCW	POINTER TO NEXT SCCW ON CHAIN
16	(10) ADDRESS	4	SCCWAIA	POINTER TO FIRST AIA OF THE GROUP USING THIS SCCW
20	(14) ADDRESS	4	SCCWIORB	ADDRESS OF IORB THAT THIS SCCW IS ASSOCIATED WITH

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OFFSETS TYPE LENGTH NAME DESCRIPTION

SPECIAL FIELDS NOT PRESENT IN A PCCW HEADER

24	(18)	ADDRESS	4	SCCWLCCH	POINTER TO LAST R/W CCW IN USE
28	(1C)	UNSIGNED	4	SCCWSVOA	SAVE AREA FOR SEARCH OP CODE AND ARGUMENT ADDRESS WHEN SEARCH CCW CONVERTED TO TIC FOR CCW CHAINING

IDAW FIELDS FOR THE SCCWS

32	(20)	CHARACTER	96	SCCWIDAW	IDAWS FOR EXTENDED SWAP
32	(20)	ADDRESS	4	SCCWIDW1	FIRST 2K ADDR
36	(24)	ADDRESS	4	SCCWIDW2	SECOND 2K ADDR

SEARCH ARGUMENT SECTION OF SWAP CHANNEL COMMAND WORKAREA

128	(80)	CHARACTER	64	SCCWSARG	SEARCH ARGUMENTS SECTION
128	(80)	CHARACTER	1	SCCWM	EXTENT NUMBER OF SEEK ADDRESS
129	(81)	CHARACTER	2	SCCWBB	BIN NUMBER OF SEEK ADDRESS
131	(83)	CHARACTER	60	SCCWSRH	TWELVE COPIES OF CCHHR
131	(83)	CHARACTER	4	SCCWCHH	CYLINDER AND HEAD
131	(83)	CHARACTER	2	SCCWCC	CYLINDER
133	(85)	CHARACTER	2	SCCWHH	HEAD
135	(87)	CHARACTER	1	SCCWR	RECORD
191	(BF)	CHARACTER	1	SCCWRSV1	RESERVED

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OFFSETS TYPE LENGTH NAME DESCRIPTION

SET PAGING PARAMETERS DATA AREA

192	(C0)	CHARACTER	10	SCCWSPPD	SET PAGING PARAMETERS DATA
192	(C0)	CHARACTER	1	SCCWSPFL	SET PAGING PARAMETER FLAGS
		1... ..		SCCWSPSQ	"SEQUENTIAL READ" INDICATOR
		.1... ..		SCCWSPRO	"READ ONCE" INDICATOR
193	(C1)	CHARACTER	1	SCCWSPBC	SET PAGING PARAMETER BLOCK COUNT
194	(C2)	CHARACTER	2	SCCWSPCA	SET PAGING PARAMETER BASE CYLINDER ADDRESS ALWAYS ZERO
196	(C4)	CHARACTER	2	SCCWSPR1	RESERVED FOR SET PAGING PARAMETERS
198	(C6)	CHARACTER	4	SCCWSPSK	SET PAGING PARAMETER SEEK ADDRESS
202	(CA)	CHARACTER	6	SCCWRSV2	RESERVED

CCW SECTION OF SWAP CHANNEL COMMAND WORKAREA

208	(D0)	CHARACTER	312	SCCWCCW	CHANNEL COMMAND SECTION
208	(D0)	CHARACTER	8	SCCWSEEK	FULL SEEK CCW
208	(D0)	CHARACTER	1	SCCWSKOP	SEEK OP CODE
209	(D1)	ADDRESS	3	SCCWSKAD	SEEK CCW ADDRESS
212	(D4)	CHARACTER	4	SCCWFGCT	SEEK FLAGS AND COUNT
216	(D8)	CHARACTER	8	SCCWSSEC	SET SECTOR CCW
216	(D8)	CHARACTER	1	SCCWSSOP	SET SECTOR OP CODE
217	(D9)	ADDRESS	3	SCCWSSAD	SET SECTOR CCW ADDRESS
220	(DC)	CHARACTER	4	SCCWFLCT	SET SECTOR FLAGS AND COUNT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
224	(E0) CHARACTER	288	SCCWSLOT	12 SETS OF THREE CCW'S
224	(E0) CHARACTER	8	SCCWSRCH	SEARCH CCW
224	(E0) CHARACTER	1	SCCWSROP	SEARCH OP FIELD
225	(E1) ADDRESS	3	SCCWSRAD	SEARCH ADDRESS FIELD
228	(E4) CHARACTER	1	SCCWSRFL	SEARCH FLAG FIELD
229	(E5) CHARACTER	1		
230	(E6) UNSIGNED	2	SCCWSRCT	SEARCH COUNT FIELD
232	(E8) CHARACTER	8	SCCW TIC	TIC CCW
232	(E8) CHARACTER	1	SCCW TIOP	TIC OP FIELD
233	(E9) ADDRESS	3	SCCW TIAD	TIC ADDRESS FIELD
236	(EC) CHARACTER	4		
240	(F0) CHARACTER	8	SCCWRW	READ OR WRITE CCW
240	(F0) CHARACTER	1	SCCWRWOP	READ/WRITE OP FIELD
241	(F1) ADDRESS	3	SCCWRWAD	READ/WRITE ADDRESS FIELD
244	(F4) CHARACTER	1	SCCWRWFL	READ/WRITE FLAG FIELD
245	(F5) CHARACTER	1		
246	(F6) UNSIGNED	2	SCCWRWCT	READ/WRITE COUNT FIELD
512	(200) CHARACTER	8	SCCWLTIC	LAST CCW USED TO TIC WHEN CHAINING TO ANOTHER SET OF CCWS
512	(200) CHARACTER	1	SCCWLTOP	LAST TIC OP FIELD
513	(201) ADDRESS	3	SCCWLTAD	LAST TIC ADDRESS FIELD
516	(204) CHARACTER	4		

THIS FIELD IS DEFINED TO COMMONLY ADDRESS THE SCCWMBB FIELD AND THE FIRST SCCWSRH ITERATION.
 STRUCTURE OF CHANNEL PROGRAM FOR EXTENDED CKD ARCHITECTURES

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
208	(D0) STRUCTURE	16	SCCWSP	SET PAGING PARAMETERS AND TIC CCW'S
208	(D0) CHARACTER	8	SCCWSETP	SPP CCW
208	(D0) CHARACTER	1	SCCWSPOP	SET PAGING PARAMETER OP CODE
209	(D1) ADDRESS	3	SCCWSPAD	SET PAGING PARAMETER ADDRESS
212	(D4) CHARACTER	2	SCCWSPFG	SET PAGING PARAMETER FLAGS
214	(D6) CHARACTER	2	SCCWSPCT	SET PAGING PARAMETER COUNT
216	(D8) CHARACTER	8	SCCWSPCT	TIC CCW
216	(D8) CHARACTER	1	SCCWSPTO	TIC OP FIELD
217	(D9) ADDRESS	3	SCCWSPTA	TIC ADDR FIELD
220	(DC) CHARACTER	2	SCCWSTFG	TIC FLAG FIELD
222	(DE) CHARACTER	2	SCCWSTCT	TIC COUNT FIELD
128	(80) STRUCTURE	40	SCCW DAT	EXTENDED CKD DATA
128	(80) CHARACTER	1	SCCWEM	M OF SEEK ADDRESS
129	(81) CHARACTER	2	SCCWEBB	BB OF SEEK ADDRESS
131	(83) CHARACTER	5	SCCWESRH	CCHHR ECKD SEARCH
131	(83) CHARACTER	4	SCCWSEK	CCHH ECKD SEEK
135	(87) CHARACTER	1	SCCWER	RECORD
136	(88) CHARACTER	16	SCCWDEFD	DEFINE EXTENT DATA
136	(88) CHARACTER	1	SCCWDMK	DEFINE EXTENT MASK BYTE
137	(89) CHARACTER	1	SCCWATR	DEFINE EXTENT ATTRIBUTE BYTE
138	(8A) UNSIGNED	2	SCCWDSZ	DEFINE EXTENT RECORD SIZE
140	(8C) CHARACTER	4	SCCWDRSV	RESERVED
144	(90) CHARACTER	4	SCCWCHB	BEGINNING CCHH OF DEFINE EXTENT
148	(94) CHARACTER	4	SCCWCHE	ENDING CCHH OF DEFINE EXTENT
152	(98) CHARACTER	16	SCCWLOCD	LOCATE RECORD DATA
152	(98) CHARACTER	1	SCCWLOPB	LOCATE RECORD OPERATION BYTE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
153	(99) CHARACTER	1	SCCWLAUX	LOCATE RECORD AUXILIARY BYTE
154	(9A) UNSIGNED	2	SCCWLREC	NUMBER OF RECORDS
156	(9C) CHARACTER	4	SCCWLSEK	SEEK ADDRESS
160	(A0) CHARACTER	5	SCCWLSRC	SEARCH ARGUMENT
165	(A5) CHARACTER	1	SCCWLSEC	SECTOR NUMBER
166	(A6) UNSIGNED	2	SCCWLTRN	TRANSFER LENGTH FACTOR
208	(D0) STRUCTURE	120	SCCWECCW	EXTENDED CKD CCH'S
208	(D0) CHARACTER	8	SCCWDEFE	DEFINE EXTENT CCH
208	(D0) CHARACTER	1	SCCWDEOP	DEFINE EXTENT OP CODE
209	(D1) ADDRESS	3	SCCWDEAD	DEFINE EXTENT DATA ADDRESS
212	(D4) CHARACTER	2	SCCWDEFG	DEFINE EXTENT FLAG
214	(D6) UNSIGNED	2	SCCWDECT	DEFINE EXTENT COUNT
216	(D8) CHARACTER	8	SCCWLOCR	LOCATE RECORD CCH
216	(D8) CHARACTER	1	SCCWLOP	LOCATE RECORD OP CODE
217	(D9) ADDRESS	3	SCCWLRAD	LOCATE RECORD DATA ADDRESS
220	(DC) CHARACTER	2	SCCWLRFG	LOCATE RECORD FLAG
222	(DE) UNSIGNED	2	SCCWLRCT	LOCATE RECORD COUNT
224	(E0) CHARACTER	96	SCCWRDWT	12 READ OR WRITE CCHS
224	(E0) CHARACTER	1	SCCWRDWO	READ/WRITE OP CODE
225	(E1) ADDRESS	3	SCCWRDWA	READ/WRITE DATA ADDRESS
228	(E4) CHARACTER	2	SCCWRDWF	READ/WRITE FLAGS
230	(E6) UNSIGNED	2	SCCWRDWC	READ/WRITE COUNT
320	(140) CHARACTER	8	SCCWNOP	NOP/TIC CCH CHANGED TO TIC WHEN CHAINING TO ANOTHER CCH, ELSE IS NOP
320	(140) CHARACTER	1	SCCWN	NOP/TIC OP CODE
321	(141) ADDRESS	3	SCCWNAD	NOP/TIC CCH ADDRESS
324	(144) CHARACTER	2	SCCWFG	NOP/TIC FLAGS

SCCW

SCCW

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
326	(146) UNSIGNED	2	SCCWNCT	NOP/TIC COUNT
208	(D0) STRUCTURE	16	SCCWSP	SET PAGING PARAMETERS AND TIC CCW'S
208	(D0) CHARACTER	8	SCCWSETP	SPP CCW
208	(D0) CHARACTER	1	SCCWSPOP	SET PAGING PARAMETER OP CODE
209	(D1) ADDRESS	3	SCCWSPAD	SET PAGING PARAMETER ADDRESS
212	(D4) CHARACTER	2	SCCWSPFG	SET PAGING PARAMETER FLAGS
214	(D6) CHARACTER	2	SCCWSPCT	SET PAGING PARAMETER COUNT
216	(D8) CHARACTER	8	SCCWSPCTC	TIC CCW
216	(D8) CHARACTER	1	SCCWSPTO	TIC OP FIELD
217	(D9) ADDRESS	3	SCCWSPTA	TIC ADDR FIELD
220	(DC) CHARACTER	2	SCCWSTFG	TIC FLAG FIELD
222	(DE) CHARACTER	2	SCCWSTCT	TIC COUNT FIELD
0	(0) STRUCTURE	520	SCCW	

HEADER SECTION OF SWAP CHANNEL COMMAND WORKAREA

0	(0) CHARACTER	208	SCCWHDR	SCCW IDENTIFIER 'SCCW'
0	(0) CHARACTER	4	SCCWID	SECTOR VALUE FOR SET SECTOR
4	(4) UNSIGNED	1	SCCWSECT	SCCW FLAGS
5	(5) BITSTRING	1	SCCWFLAG	I/O ERROR FLAG 1 = THIS SCCW SUFFERED AN I/O ERROR 0 = NO ERROR THIS SCCW
	1... ..		SCCWERR	
	.111 1111			RESERVED
6	(6) CHARACTER	6		POINTER TO NEXT SCCW ON CHAIN
12	(C) ADDRESS	4	SCCWSCW	POINTER TO FIRST AIA OF THE GROUP USING THIS SCCW

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
16	(10) ADDRESS	4	SCCWAIA	
20	(14) ADDRESS	4	SCCWIORB	
SPECIAL FIELDS NOT PRESENT IN A PCCW HEADER				
24	(18) ADDRESS	4	SCCWLCCW	SAVE AREA FOR SEARCH OP CODE AND ARGUMENT ADDRESS WHEN SEARCH Ccw CONVERTED TO TIC FOR Ccw CHAINING
28	(1C) UNSIGNED	4	SCCWSVOA	
IDAW FIELDS FOR THE SCCWS				
32	(20) CHARACTER	96	SCCWIDAW	
32	(20) ADDRESS	4	SCCWIDW1	SECOND 2K ADDR
36	(24) ADDRESS	4	SCCWIDW2	
SEARCH ARGUMENT SECTION OF SWAP CHANNEL COMMAND WORKAREA				
128	(80) CHARACTER	64	SCCWSARG	EXTENT NUMBER OF SEEK ADDRESS
128	(80) CHARACTER	1	SCCWM	BIN NUMBER OF SEEK ADDRESS
129	(81) CHARACTER	2	SCCWBB	TWELVE COPIES OF CCHHR
131	(83) CHARACTER	60	SCCWSRH	CYLINDER AND HEAD
131	(83) CHARACTER	4	SCCWCCHH	CYLINDER
131	(83) CHARACTER	2	SCCWCC	HEAD
133	(85) CHARACTER	2	SCCWHH	RECORD
135	(87) CHARACTER	1	SCCWR	RESERVED
191	(BF) CHARACTER	1	SCCWRSV1	

SCCW

SCCW

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OFFSETS TYPE LENGTH NAME DESCRIPTION

SET PAGING PARAMETERS DATA AREA

192	(C0)	CHARACTER	10	SCCWSPPD	
192	(C0)	CHARACTER	1	SCCWSPFL	
		1... ..		SCCWSPSQ	
		.1... ..		SCCWSPRO	SET PAGING PARAMETER BLOCK COUNT
193	(C1)	CHARACTER	1	SCCWSPBC	
194	(C2)	CHARACTER	2	SCCWSPCA	
196	(C4)	CHARACTER	2	SCCWSPR1	
198	(C6)	CHARACTER	4	SCCWSPSK	
202	(CA)	CHARACTER	6	SCCWRSV2	

CCW SECTION OF SWAP CHANNEL COMMAND WORKAREA

208	(D0)	CHARACTER	312	SCCWCCW	
208	(D0)	CHARACTER	8	SCCWSEEK	SEEK OP CODE
208	(D0)	CHARACTER	1	SCCWSKOP	SEEK CCW ADDRESS
209	(D1)	ADDRESS	3	SCCWSKAD	SEEK FLAGS AND COUNT
212	(D4)	CHARACTER	4	SCCWFGCT	SET SECTOR CCW
216	(D8)	CHARACTER	8	SCCWSSEC	SET SECTOR OP CODE
216	(D8)	CHARACTER	1	SCCWSSOP	SET SECTOR CCW ADDRESS
217	(D9)	ADDRESS	3	SCCWSSAD	SET SECTOR FLAGS AND COUNT
220	(DC)	CHARACTER	4	SCCWFLCT	12 SETS OF THREE CCW'S
224	(E0)	CHARACTER	288	SCCWSLOT	

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
224	(E0) CHARACTER	8	SCCWSRCH	SEARCH OP FIELD
224	(E0) CHARACTER	1	SCCWSROP	SEARCH ADDRESS FIELD
225	(E1) ADDRESS	3	SCCWSRAD	SEARCH FLAG FIELD
228	(E4) CHARACTER	1	SCCWSRFL	SEARCH COUNT FIELD TIC CCW
229	(E5) CHARACTER	1		
230	(E6) UNSIGNED	2	SCCWSRCT	
232	(E8) CHARACTER	8	SCCW TIC	TIC OP FIELD
232	(E8) CHARACTER	1	SCCW TIOP	TIC ADDRESS FIELD
233	(E9) ADDRESS	3	SCCW TIAD	
236	(EC) CHARACTER	4		READ OR WRITE CCW
240	(F0) CHARACTER	8	SCCWRW	READ/WRITE OP FIELD
240	(F0) CHARACTER	1	SCCWRWOP	READ/WRITE ADDRESS FIELD
241	(F1) ADDRESS	3	SCCWRWAD	READ/WRITE FLAG FIELD
244	(F4) CHARACTER	1	SCCWRWFL	READ/WRITE COUNT FIELD LAST CCW USED TO TIC WHEN CHAINING TO ANOTHER SET OF CCWS
245	(F5) CHARACTER	1		
246	(F6) UNSIGNED	2	SCCWRWCT	
512	(200) CHARACTER	8	SCCW LTIC	
512	(200) CHARACTER	1	SCCW LTOP	LAST TIC ADDRESS FIELD
513	(201) ADDRESS	3	SCCW LTAD	
516	(204) CHARACTER	4		
<p>THIS FIELD IS DEFINED TO COMMONLY ADDRESS THE SCCWMBB FIELD AND THE FIRST SCCWSRH ITERATION. STRUCTURE OF CHANNEL PROGRAM FOR EXTENDED CKD ARCHITECTURES</p>				
128	(80) STRUCTURE	40	SCCW DAT	

SCCW

SCCW

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
128	(80) CHARACTER	1	SCCWEM	BB OF SEEK ADDRESS
129	(81) CHARACTER	2	SCCWEBB	CCHHR ECKD SEARCH
131	(83) CHARACTER	5	SCCWESRH	CCHH ECKD SEEK
131	(83) CHARACTER	4	SCCWESEK	RECORD
135	(87) CHARACTER	1	SCCWER	DEFINE EXTENT DATA
136	(88) CHARACTER	16	SCCWDEFD	DEFINE EXTENT MASK BYTE
136	(88) CHARACTER	1	SCCWDMASK	
137	(89) CHARACTER	1	SCCWATR	
138	(8A) UNSIGNED	2	SCCWDSZ	
140	(8C) CHARACTER	4	SCCWDRSV	BEGINNING CCHH OF DEFINE EXTENT
144	(90) CHARACTER	4	SCCWCCHB	
148	(94) CHARACTER	4	SCCWCHE	
152	(98) CHARACTER	16	SCCWLOCD	LOCATE RECORD OPERATION BYTE
152	(98) CHARACTER	1	SCCWLOPB	
153	(99) CHARACTER	1	SCCWLAUX	
154	(9A) UNSIGNED	2	SCCWLREC	SEEK ADDRESS
156	(9C) CHARACTER	4	SCCWLSEK	SEARCH ARGUMENT
160	(A0) CHARACTER	5	SCCWLSRC	SECTOR NUMBER
165	(A5) CHARACTER	1	SCCWLSEC	TRANSFER LENGTH FACTOR
166	(A6) UNSIGNED	2	SCCWLTRN	
208	(D0) STRUCTURE	120	SCCWECCW	
208	(D0) CHARACTER	8	SCCWDEFE	DEFINE EXTENT OP CODE
208	(D0) CHARACTER	1	SCCWDEOP	DEFINE EXTENT DATA ADDRESS
209	(D1) ADDRESS	3	SCCWDEAD	
212	(D4) CHARACTER	2	SCCWDEFG	DEFINE EXTENT COUNT
214	(D6) UNSIGNED	2	SCCWDECT	LOCATE RECORD CCH
216	(D8) CHARACTER	8	SCCWLOCR	LOCATE RECORD OP CODE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
216	(D8) CHARACTER	1	SCCWLRDP	LOCATE RECORD DATA ADDRESS
217	(D9) ADDRESS	3	SCCWLRAD	
220	(DC) CHARACTER	2	SCCWLRFG	LOCATE RECORD COUNT
222	(DE) UNSIGNED	2	SCCWLRCT	12 READ OR WRITE CCWS
224	(E0) CHARACTER	96	SCCWDRWT	
224	(E0) CHARACTER	1	SCCWDRWO	READ/WRITE DATA ADDRESS
225	(E1) ADDRESS	3	SCCWDRWA	
228	(E4) CHARACTER	2	SCCWDRWF	READ/WRITE COUNT
230	(E6) UNSIGNED	2	SCCWDRWC	NOP/TIC CCH CHANGED TO TIC WHEN CHAINING TO ANOTHER CCH, ELSE IS NOP
320	(140) CHARACTER	8	SCCWNOP	
320	(140) CHARACTER	1	SCCWN	NOP/TIC CCH ADDRESS
321	(141) ADDRESS	3	SCCWNAD	NOP/TIC FLAGS
324	(144) CHARACTER	2	SCCWFG	NOP/TIC COUNT
326	(146) UNSIGNED	2	SCCWNCT	A COMPILER INSERT
128	(80) STRUCTURE	40	SCCWDT	EXTENDED CKD DATA
128	(80) CHARACTER	1	SCCWEM	M OF SEEK ADDRESS
129	(81) CHARACTER	2	SCCWBB	BB OF SEEK ADDRESS
131	(83) CHARACTER	5	SCCWESRH	CCHHR ECKD SEARCH
131	(83) CHARACTER	4	SCCWSEK	CCHH ECKD SEEK
135	(87) CHARACTER	1	SCCWER	RECORD
136	(88) CHARACTER	16	SCCWDFD	DEFINE EXTENT DATA
136	(88) CHARACTER	1	SCCWDMK	DEFINE EXTENT MASK BYTE
137	(89) CHARACTER	1	SCCWATR	DEFINE EXTENT ATTRIBUTE BYTE
138	(8A) UNSIGNED	2	SCCWDSZ	DEFINE EXTENT RECORD SIZE
140	(8C) CHARACTER	4	SCCWDRSV	RESERVED
144	(90) CHARACTER	4	SCCWCCHB	BEGINNING CCHH OF DEFINE EXTENT

SCCW

SCCW

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
148	(94) CHARACTER	4	SCCWCHE	ENDING CCHH OF DEFINE EXTENT
152	(98) CHARACTER	16	SCCWLOCD	LOCATE RECORD DATA
152	(98) CHARACTER	1	SCCWLOPB	LOCATE RECORD OPERATION BYTE
153	(99) CHARACTER	1	SCCWLAUX	LOCATE RECORD AUXILIARY BYTE
154	(9A) UNSIGNED	2	SCCWLREC	NUMBER OF RECORDS
156	(9C) CHARACTER	4	SCCWLSEK	SEEK ADDRESS
160	(A0) CHARACTER	5	SCCWLSRC	SEARCH ARGUMENT
165	(A5) CHARACTER	1	SCCWLSEC	SECTOR NUMBER
166	(A6) UNSIGNED	2	SCCWLTRN	TRANSFER LENGTH FACTOR
0	(0) STRUCTURE	520	SCCW	
HEADER SECTION OF SWAP CHANNEL COMMAND WORKAREA				
0	(0) CHARACTER	208	SCCWHDR	SCCW IDENTIFIER 'SCCW'
0	(0) CHARACTER	4	SCCWID	SECTOR VALUE FOR SET SECTOR
4	(4) UNSIGNED	1	SCCWSECT	SCCW FLAGS
5	(5) BITSTRING	1	SCCWFLAG	I/O ERROR FLAG 1 = THIS SCCW SUFFERED AN I/O ERROR 0 = NO ERROR THIS SCCW
	1... ..		SCCWERR	
	.111 1111			RESERVED
6	(6) CHARACTER	6		POINTER TO NEXT SCCW ON CHAIN
12	(C) ADDRESS	4	SCCWSCCW	POINTER TO FIRST AIA OF THE GROUP USING THIS SCCW
16	(10) ADDRESS	4	SCCWAIA	
20	(14) ADDRESS	4	SCCWIORB	

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OFFSETS TYPE LENGTH NAME DESCRIPTION

SPECIAL FIELDS NOT PRESENT IN A PCCW HEADER

24	(18)	ADDRESS	4	SCCWLCCH	SAVE AREA FOR SEARCH OP CODE AND ARGUMENT ADDRESS WHEN SEARCH CCH CONVERTED TO TIC FOR CCH CHAINING
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28	(1C)	UNSIGNED	4	SCCWSVOA	
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IDAW FIELDS FOR THE SCCWS

32	(20)	CHARACTER	96	SCCWIDAW	
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32	(20)	ADDRESS	4	SCCWIDW1	SECOND 2K ADDR
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36	(24)	ADDRESS	4	SCCWIDW2	
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SEARCH ARGUMENT SECTION OF SWAP CHANNEL COMMAND WORKAREA

128	(80)	CHARACTER	64	SCCWSARG	EXTENT NUMBER OF SEEK ADDRESS
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128	(80)	CHARACTER	1	SCCWMM	BIN NUMBER OF SEEK ADDRESS
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129	(81)	CHARACTER	2	SCCWBB	TWELVE COPIES OF CCHHR
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131	(83)	CHARACTER	60	SCCWSRH	CYLINDER AND HEAD
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131	(83)	CHARACTER	4	SCCWCCHH	CYLINDER
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131	(83)	CHARACTER	2	SCCWCC	HEAD
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133	(85)	CHARACTER	2	SCCWHH	RECORD
-----	------	-----------	---	--------	--------

135	(87)	CHARACTER	1	SCCWR	RESERVED
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191	(BF)	CHARACTER	1	SCCWRSV1	
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OFFSETS TYPE LENGTH NAME DESCRIPTION

SET PAGING PARAMETERS DATA AREA

192	(C0)	CHARACTER	10	SCCWSPPD	
192	(C0)	CHARACTER	1	SCCWSPFL	
		1... ..		SCCWSPSQ	
		.1... ..		SCCWSPRO	SET PAGING PARAMETER BLOCK COUNT
193	(C1)	CHARACTER	1	SCCWSPBC	
194	(C2)	CHARACTER	2	SCCWSPCA	
196	(C4)	CHARACTER	2	SCCWSPR1	
198	(C6)	CHARACTER	4	SCCWSPSK	
202	(CA)	CHARACTER	6	SCCWRSV2	

CCW SECTION OF SWAP CHANNEL COMMAND WORKAREA

208	(D0)	CHARACTER	312	SCCWCCW	
208	(D0)	CHARACTER	8	SCCWSEEK	SEEK OP CODE
208	(D0)	CHARACTER	1	SCCWSKOP	SEEK CCW ADDRESS
209	(D1)	ADDRESS	3	SCCWSKAD	SEEK FLAGS AND COUNT
212	(D4)	CHARACTER	4	SCCWFGCT	SET SECTOR CCW
216	(D8)	CHARACTER	8	SCCWSSEC	SET SECTOR OP CODE
216	(D8)	CHARACTER	1	SCCWSSOP	SET SECTOR CCW ADDRESS
217	(D9)	ADDRESS	3	SCCWSSAD	SET SECTOR FLAGS AND COUNT
220	(DC)	CHARACTER	4	SCCWFLCT	12 SETS OF THREE CCW'S
224	(E0)	CHARACTER	288	SCCWSLOT	

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
224	(E0) CHARACTER	8	SCCWSRCH	SEARCH OP FIELD
224	(E0) CHARACTER	1	SCCWSROP	SEARCH ADDRESS FIELD
225	(E1) ADDRESS	3	SCCWSRAD	SEARCH FLAG FIELD
228	(E4) CHARACTER	1	SCCWSRFL	SEARCH COUNT FIELD TIC CCH
229	(E5) CHARACTER	1		
230	(E6) UNSIGNED	2	SCCWSRCT	
232	(E8) CHARACTER	8	SCCW TIC	TIC OP FIELD
232	(E8) CHARACTER	1	SCCW TIOP	TIC ADDRESS FIELD
233	(E9) ADDRESS	3	SCCW TIAD	
236	(EC) CHARACTER	4		READ OR WRITE CCH
240	(F0) CHARACTER	8	SCCWRW	READ/WRITE OP FIELD
240	(F0) CHARACTER	1	SCCWRWOP	READ/WRITE ADDRESS FIELD
241	(F1) ADDRESS	3	SCCWRWAD	READ/WRITE FLAG FIELD
244	(F4) CHARACTER	1	SCCWRWFL	READ/WRITE COUNT FIELD LAST CCH USED TO TIC WHEN CHAINING TO ANOTHER SET OF CCWS
245	(F5) CHARACTER	1		
246	(F6) UNSIGNED	2	SCCWRWCT	
512	(200) CHARACTER	8	SCCWLTIC	
512	(200) CHARACTER	1	SCCWLTOP	LAST TIC ADDRESS FIELD
513	(201) ADDRESS	3	SCCWLTAD	
516	(204) CHARACTER	4		
THIS FIELD IS DEFINED TO COMMONLY ADDRESS THE SCCWMBB FIELD AND THE FIRST SCCWSRH ITERATION. STRUCTURE OF CHANNEL PROGRAM FOR EXTENDED CKD ARCHITECTURES				
208	(D0) STRUCTURE	16	SCCWSP	

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
208	(D0) CHARACTER	8	SCCWSETP	SET PAGING PARAMETER OP CODE
208	(D0) CHARACTER	1	SCCWSPOP	
209	(D1) ADDRESS	3	SCCWSPAD	
212	(D4) CHARACTER	2	SCCWSPFG	
214	(D6) CHARACTER	2	SCCWSPCT	
216	(D8) CHARACTER	8	SCCWSPTC	TIC OP FIELD
216	(D8) CHARACTER	1	SCCWSPT0	TIC ADDR FIELD
217	(D9) ADDRESS	3	SCCWSPTA	TIC FLAG FIELD
220	(DC) CHARACTER	2	SCCWSTFG	TIC COUNT FIELD
222	(DE) CHARACTER	2	SCCWSTCT	
208	(D0) STRUCTURE	120	SCCWECCW	
208	(D0) CHARACTER	8	SCCWDEFE	DEFINE EXTENT OP CODE
208	(D0) CHARACTER	1	SCCWDEOP	DEFINE EXTENT DATA ADDRESS
209	(D1) ADDRESS	3	SCCWDEAD	
212	(D4) CHARACTER	2	SCCWDEFG	DEFINE EXTENT COUNT
214	(D6) UNSIGNED	2	SCCWDECT	LOCATE RECORD CCW
216	(D8) CHARACTER	8	SCCWLOCR	LOCATE RECORD OP CODE
216	(D8) CHARACTER	1	SCCWLOPR	LOCATE RECORD DATA ADDRESS
217	(D9) ADDRESS	3	SCCWLRAD	
220	(DC) CHARACTER	2	SCCWLRFG	LOCATE RECORD COUNT
222	(DE) UNSIGNED	2	SCCWLRCT	12 READ OR WRITE CCWS
224	(E0) CHARACTER	96	SCCWRDWT	
224	(E0) CHARACTER	1	SCCWRDWO	READ/WRITE DATA ADDRESS
225	(E1) ADDRESS	3	SCCWRDWA	

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
228	(E4) CHARACTER	2	SCCWRDWF	READ/WRITE COUNT
230	(E6) UNSIGNED	2	SCCWRDWC	NOP/TIC CCM CHANGED TO TIC WHEN CHAINING TO ANOTHER CCM, ELSE IS NOP
320	(140) CHARACTER	8	SCCWNOP	
320	(140) CHARACTER	1	SCCWN	NOP/TIC CCM ADDRESS
321	(141) ADDRESS	3	SCCWNAD	NOP/TIC FLAGS
324	(144) CHARACTER	2	SCCWFG	NOP/TIC COUNT
326	(146) UNSIGNED	2	SCCWNCT	A COMPILER INSERT
208	(D0) STRUCTURE	120	SCCWECCM	EXTENDED CKD CCM'S
208	(D0) CHARACTER	8	SCCWDEFE	DEFINE EXTENT CCM
208	(D0) CHARACTER	1	SCCWDEOP	DEFINE EXTENT OP CODE
209	(D1) ADDRESS	3	SCCWDEAD	DEFINE EXTENT DATA ADDRESS
212	(D4) CHARACTER	2	SCCWDEFG	DEFINE EXTENT FLAG
214	(D6) UNSIGNED	2	SCCWDECT	DEFINE EXTENT COUNT
216	(D8) CHARACTER	8	SCCWLOCR	LOCATE RECORD CCM
216	(D8) CHARACTER	1	SCCWLOP	LOCATE RECORD OP CODE
217	(D9) ADDRESS	3	SCCWLRAD	LOCATE RECORD DATA ADDRESS
220	(DC) CHARACTER	2	SCCWLRFG	LOCATE RECORD FLAG
222	(DE) UNSIGNED	2	SCCWLRCT	LOCATE RECORD COUNT
224	(E0) CHARACTER	96	SCCWRDWT	12 READ OR WRITE CCMS
224	(E0) CHARACTER	1	SCCWRDWO	READ/WRITE OP CODE
225	(E1) ADDRESS	3	SCCWRDWA	READ/WRITE DATA ADDRESS
228	(E4) CHARACTER	2	SCCWRDWF	READ/WRITE FLAGS
230	(E6) UNSIGNED	2	SCCWRDWC	READ/WRITE COUNT
320	(140) CHARACTER	8	SCCWNOP	NOP/TIC CCM CHANGED TO TIC WHEN CHAINING TO ANOTHER CCM, ELSE IS NOP

SCCW

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
320	(140)	CHARACTER	1 SCCWN	NOP/TIC OP CODE
321	(141)	ADDRESS	3 SCCWNAD	NOP/TIC CCW ADDRESS
324	(144)	CHARACTER	2 SCCWFG	NOP/TIC FLAGS
326	(146)	UNSIGNED	2 SCCWNCT	NOP/TIC COUNT
0	(0)	STRUCTURE	520 SCCW	

HEADER SECTION OF SWAP CHANNEL COMMAND WORKAREA

0	(0)	CHARACTER	208 SCCWHDR	SCCW IDENTIFIER 'SCCW'
0	(0)	CHARACTER	4 SCCWID	SECTOR VALUE FOR SET SECTOR
4	(4)	UNSIGNED	1 SCCWSECT	SCCW FLAGS
5	(5)	BITSTRING	1 SCCWFLAG	I/O ERROR FLAG 1 = THIS SCCW SUFFERED AN I/O ERROR 0 = NO ERROR THIS SCCW
			1... .. SCCWERR	
			.111 1111	RESERVED
6	(6)	CHARACTER	6	POINTER TO NEXT SCCW ON CHAIN
12	(C)	ADDRESS	4 SCCWSCCW	POINTER TO FIRST AIA OF THE GROUP USING THIS SCCW
16	(10)	ADDRESS	4 SCCWAIA	
20	(14)	ADDRESS	4 SCCWIORB	

SPECIAL FIELDS NOT PRESENT IN A PCCW HEADER

24	(18)	ADDRESS	4 SCCWLCCW	SAVE AREA FOR SEARCH OP CODE AND ARGU- MENT ADDRESS WHEN SEARCH CCW CONVERTED TO TIC FOR CCW CHAINING
28	(1C)	UNSIGNED	4 SCCWSVOA	

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OFFSETS TYPE LENGTH NAME DESCRIPTION

IDAW FIELDS FOR THE SCCWS

32	(20) CHARACTER	96	SCCWIDAW	
32	(20) ADDRESS	4	SCCWIDW1	SECOND 2K ADDR
36	(24) ADDRESS	4	SCCWIDW2	

SEARCH ARGUMENT SECTION OF SWAP CHANNEL COMMAND WORKAREA

128	(80) CHARACTER	64	SCCWSARG	EXTENT NUMBER OF SEEK ADDRESS
128	(80) CHARACTER	1	SCCWM	BIN NUMBER OF SEEK ADDRESS
129	(81) CHARACTER	2	SCCWBB	TWELVE COPIES OF CCHHR
131	(83) CHARACTER	60	SCCWSRH	CYLINDER AND HEAD
131	(83) CHARACTER	4	SCCWCCHH	CYLINDER
131	(83) CHARACTER	2	SCCWCC	HEAD
133	(85) CHARACTER	2	SCCWHH	RECORD
135	(87) CHARACTER	1	SCCWR	RESERVED
191	(BF) CHARACTER	1	SCCWRSV1	

SET PAGING PARAMETERS DATA AREA

192	(C0) CHARACTER	10	SCCWSPPD	
192	(C0) CHARACTER	1	SCCWSPFL	
	1... ..		SCCWSPSQ	
	.1... ..		SCCWSPRO	SET PAGING PARAMETER BLOCK COUNT
193	(C1) CHARACTER	1	SCCWSPBC	
194	(C2) CHARACTER	2	SCCWSPCA	

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OFFSETS TYPE LENGTH NAME DESCRIPTION

196 (C4) CHARACTER 2 SCCWSPR1
 198 (C6) CHARACTER 4 SCCWSPSK
 202 (CA) CHARACTER 6 SCCWRSV2

CCW SECTION OF SWAP CHANNEL COMMAND WORKAREA

208	(D0)	CHARACTER	312	SCCWCCW	
208	(D0)	CHARACTER	8	SCCWSEEK	SEEK OP CODE
208	(D0)	CHARACTER	1	SCCWSKOP	SEEK CCW ADDRESS
209	(D1)	ADDRESS	3	SCCWSKAD	SEEK FLAGS AND COUNT
212	(D4)	CHARACTER	4	SCCWFGCT	SET SECTOR CCW
216	(D8)	CHARACTER	8	SCCWSSEC	SET SECTOR OP CODE
216	(D8)	CHARACTER	1	SCCWSSOP	SET SECTOR CCW ADDRESS
217	(D9)	ADDRESS	3	SCCWSSAD	SET SECTOR FLAGS AND COUNT
220	(DC)	CHARACTER	4	SCCWFLCT	12 SETS OF THREE CCW'S
224	(E0)	CHARACTER	288	SCCW SLOT	
224	(E0)	CHARACTER	8	SCCWSRCH	SEARCH OP FIELD
224	(E0)	CHARACTER	1	SCCWSROP	SEARCH ADDRESS FIELD
225	(E1)	ADDRESS	3	SCCWSRAD	SEARCH FLAG FIELD
228	(E4)	CHARACTER	1	SCCWSRFL	
229	(E5)	CHARACTER	1		SEARCH COUNT FIELD
230	(E6)	UNSIGNED	2	SCCWSRCT	TIC CCW
232	(E8)	CHARACTER	8	SCCW TIC	TIC OP FIELD
232	(E8)	CHARACTER	1	SCCW TIOP	TIC ADDRESS FIELD
233	(E9)	ADDRESS	3	SCCW TIAD	

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
236	(EC) CHARACTER	4		READ OR WRITE CCM
240	(F0) CHARACTER	8	SCCWRW	READ/WRITE OP FIELD
240	(F0) CHARACTER	1	SCCWRWOP	READ/WRITE ADDRESS FIELD
241	(F1) ADDRESS	3	SCCWRWAD	READ/WRITE FLAG FIELD
244	(F4) CHARACTER	1	SCCWRWFL	READ/WRITE COUNT FIELD LAST CCM USED TO TIC WHEN CHAINING TO ANOTHER SET OF CCWS
245	(F5) CHARACTER	1		
246	(F6) UNSIGNED	2	SCCWRWCT	
512	(200) CHARACTER	8	SCCWLTIC	
512	(200) CHARACTER	1	SCCWLTOP	LAST TIC ADDRESS FIELD
513	(201) ADDRESS	3	SCCWLTAD	
516	(204) CHARACTER	4		
<p>THIS FIELD IS DEFINED TO COMMONLY ADDRESS THE SCCWMBB FIELD AND THE FIRST SCCWSRH ITERATION. STRUCTURE OF CHANNEL PROGRAM FOR EXTENDED CKD ARCHITECTURES</p>				
208	(D0) STRUCTURE	16	SCCWSPP	
208	(D0) CHARACTER	8	SCCWSETP	SET PAGING PARAMETER OP CODE
208	(D0) CHARACTER	1	SCCWSPOP	
209	(D1) ADDRESS	3	SCCWSPAD	
212	(D4) CHARACTER	2	SCCWSPFG	
214	(D6) CHARACTER	2	SCCWSPCT	
216	(D8) CHARACTER	8	SCCWSPTC	TIC OP FIELD
216	(D8) CHARACTER	1	SCCWSPTO	TIC ADDR FIELD
217	(D9) ADDRESS	3	SCCWSPTA	TIC FLAG FIELD
220	(DC) CHARACTER	2	SCCWSTFG	TIC COUNT FIELD

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
222	(DE) CHARACTER	2	SCCWSTCT	
128	(80) STRUCTURE	40	SCCW DAT	
128	(80) CHARACTER	1	SCCWEM	BB OF SEEK ADDRESS
129	(81) CHARACTER	2	SCCW EBB	CCHHR ECKD SEARCH
131	(83) CHARACTER	5	SCCWESRH	CCHH ECKD SEEK
131	(83) CHARACTER	4	SCCW ESEK	RECORD
135	(87) CHARACTER	1	SCCWER	DEFINE EXTENT DATA
136	(88) CHARACTER	16	SCCWDEFD	DEFINE EXTENT MASK BYTE
136	(88) CHARACTER	1	SCCW DMSK	
137	(89) CHARACTER	1	SCCW DATR	
138	(8A) UNSIGNED	2	SCCWDSZ	
140	(8C) CHARACTER	4	SCCWDRSV	BEGINNING CCHH OF DEFINE EXTENT
144	(90) CHARACTER	4	SCCWCCHB	
148	(94) CHARACTER	4	SCCWC CHE	
152	(98) CHARACTER	16	SCCWLOCD	LOCATE RECORD OPERATION BYTE
152	(98) CHARACTER	1	SCCWLOPB	
153	(99) CHARACTER	1	SCCWL A UX	
154	(9A) UNSIGNED	2	SCCWLREC	SEEK ADDRESS
156	(9C) CHARACTER	4	SCCWLSEK	SEARCH ARGUMENT
160	(A0) CHARACTER	5	SCCWL SRC	SECTOR NUMBER
165	(A5) CHARACTER	1	SCCWLSEC	TRANSFER LENGTH FACTOR
166	(A6) UNSIGNED	2	SCCWLTRN	

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SCCW	0		SCCWLAUX	99		SCCWSECT	4	
SCCWAIA	10		SCCWLCCW	18		SCCWSEEK	D0	
SCCWBB	81		SCCWLOCD	98		SCCWSETP	D0	
SCCWCC	83		SCCWLOCR	D8		SCCWSKAD	D1	
SCCWCCHB	90		SCCWLOPB	98		SCCWSKOP	D0	
SCCWCCHE	94		SCCWLRAD	D9		SCCW SLOT	E0	
SCCWCCHH	83		SCCWLRCT	DE		SCCWSPAD	D1	
SCCWCCW	D0		SCCWLRFC	9A		SCCWSPBC	C1	
SCCW DAT	80		SCCWLRFG	DC		SCCWSPCA	C2	
SCCW DATR	89		SCCWLRFP	D8		SCCWSPCT	D6	
SCCWDEAD	D1		SCCWLRSEC	A5		SCCWSPFG	D4	
SCCWDECT	D6		SCCWLRSEK	9C		SCCWSPFL	C0	
SCCWDEFD	88		SCCWLR SRC	A0		SCCWSPOP	D0	
SCCWDEFE	D0		SCCWLTAD	201		SCCWSPPP	D0	
SCCWDEFG	D4		SCCWLTIC	200		SCCWSPPD	C0	
SCCWDEOP	D0		SCCWLTOP	200		SCCWSPRO	C0	40
SCCWDM SK	88		SCCWLTRN	A6		SCCWSPR1	C4	
SCCWDRSV	8C		SCCWLM	80		SCCWSPSK	C6	
SCCWDSZ	8A		SCCWLN	140		SCCWSPSQ	C0	80
SCCW EBB	81		SCCW NAD	141		SCCWSPTA	D9	
SCCW E C C W	D0		SCCW NCT	146		SCCWSPTC	D8	
SCCWEM	80		SCCW NOP	140		SCCWSPTO	D8	
SCCW ER	87		SCCW R	87		SCCWSRAD	E1	
SCCWERR	5	80	SCCW RDWA	E1		SCCWSRCH	E0	
SCCW ESEK	83		SCCW RDWC	E6		SCCWSRCT	E6	
SCCWESRH	83		SCCW RDWF	E4		SCCWSRFL	E4	
SCCWFG	144		SCCW RDWO	E0		SCCWSRH	83	
SCCWFGCT	D4		SCCW RDWT	E0		SCCW SROP	E0	
SCCWFLAG	5		SCCW RSV1	BF		SCCWSSAD	D9	
SCCWFLCT	DC		SCCW RSV2	CA		SCCWSSSEC	D8	
SCCWHDR	0		SCCW RW	F0		SCCWSSOP	D8	
SCCW HH	85		SCCW RWAD	F1		SCCWSTCT	DE	
SCCWID	0		SCCW RWCT	F6		SCCWSTFG	DC	
SCCWIDAW	20		SCCW RWFL	F4		SCCW SVOA	1C	
SCCWIDW1	20		SCCW RWOP	F0		SCCW TIAD	E9	
SCCWIDW2	24		SCCW SARG	80		SCCW TIC	E8	
SCCWIORB	14		SCCW SCCW	C		SCCW TIOP	E8	

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SCD

Common Name : Hot I/O Status Collection Data Area
Macro ID : IECDSCD
DSECT Name : IECDSCD
Created by : IEAVNIPO, IEEVCPU
Subpool and Key : 245 and key 0
Size : 16 entries of 32 bytes each
Pointed to by : CSTSCDP field of CSTE
Serialization : Disablement on the processor with the specified channel set.
Function : Maintains information on unsolicited status and interrupts for the purpose of determining if hot I/O is occurring. There is one entry per channel.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	32	SCD	HOT I/O STATUS COLLECTION DATA
0	(0) SIGNED	2	SCDCSID	CHANNEL SET OF HOT CHANNEL OR DEVICE
2	(2) SIGNED	2	SCDDEVAD	CHANNEL/DEVICE ADDRESS
4	(4) BITSTRING	1	SCDFLG1	FLAG BYTE 1
	1... ..		SCDRECUR	HOT I/O RECURSION INDICATOR
	.111 1111			RESERVED
5	(5) CHARACTER	2	SCDRSCDE	HOT I/O DETECTION FLAGS
5	(5) BITSTRING	1	SCDRSC1	DETECTION FLAG BYTE 1
	1... ..		SCDTMOUT	TIME OUT HOT I/O
	.1.. ..		SCDAVAIL	AVAILABILITY INTERRUPT
	..1.		SCDUNSOL	UNSOLICITED STATUS
	...1		SCDNOSYS	DEVICE NOT SYSGENED
	.... 1...		SCDRSVDO	RESERVED
	.... .1..		SCDINVDV	CHANNEL ERROR AND INVALID DEVICE ADDR
1.		SCDCUERR	CHANNEL ERROR-CONTROL UNIT PROBABLE CAUSE
1		SCDCHERR	CHANNEL ERROR-CONTROL UNIT NOT PROBABLE CAUSE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
6	(6) BITSTRING 11..	1	SCDRSC2 SCDTYPE	DETECTION FLAG BYTE 2 SOURCE OF INTERRUPT- 00 IMPLIES SCD ENTRY NOT YET INITIALIZED. SEE DECLARA- TIONS OF SCDTYPCH, SCDTYPCU, AND SCDTYPDV FOR VALUES FOR THIS FIELD.
	..11 11.. .... ..1. .... ...1		SCDCHREC SCDHOTR	RESERVED CHANNEL RECURSION HOT I/O RECURSION BIT. NOT USED IN SCD BUT MAPPED IN IRT.
7	(7) BITSTRING	1		RESERVED
8	(8) BITSTRING	2	SCDCSWST	CSW STATUS
10	(A) SIGNED	2		RESERVED
12	(C) CHARACTER	4	SCDCNTS	HOT I/O COUNTERS
12	(C) SIGNED	2	SCDRCNT	STATUS REPEAT COUNT
14	(E) SIGNED	2	SCDTRCNT	TIMEOUT REPEAT COUNT
16	(10) CHARACTER	8	SCDTIME	TIME OF STATUS
16	(10) UNSIGNED	4	SCDTIME1	VALUE FOR CALCULATING SECONDS ELAPSED
20	(14) UNSIGNED	4	SCDTIME2	2ND WORD OF TIME VALUE
24	(18) CHARACTER	8	SCDRSVD1	PAD LENGTH TO POWER OF 2
0	(0) STRUCTURE	512	SCDTAB	16 ENTRIES PER SCD
0	(0) CHARACTER	512	SCDENTRY	

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SCL

Common Name : Scan Parameter List
 Macro ID : IEEZB815
 DSECT Name : None
 Created by : Caller of generalized parser (IEEMB887)
 Subpool and Key : Caller's
 Size : 92 bytes
 Pointed to by : N/A
 Serialization : None
 Function : The parameter list to IEEMB887 provides the basic information to perform a parse of the specified input.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	92	SCLPARG	PARSE PARM LIST
0	(0) CHARACTER	4	SCLACRO	ACRONYM SHOULD EQUAL 'SCL '
4	(4) UNSIGNED	1	SCLVERSN	VERSION LEVEL
5	(5) CHARACTER	3	SCLRESV1	RESERVED
8	(8) ADDRESS	4	SCLCHAR	PTR TO STRING TO PARSE
12	(C) ADDRESS	4	SCLDSC	PTR TO FIRST PARSE DESC.
16	(10) ADDRESS	4	SCLIORTN	ADDR OF USER I/O EXIT ROUTINE
20	(14) ADDRESS	4	SCLIOPAD	ADDR OF PARM FOR I/O ROUTINE
24	(18) ADDRESS	4	SCLCURNT	ADDR OF CURRENT PARSE DESC.
28	(1C) UNSIGNED	2	SCLINLN	INPUT RECORD LENGTH
30	(1E) UNSIGNED	2	SCLSTRLN	PASSBACK LENGTH
32	(20) BITSTRING	1	SCLFLG1	FLAG BYTE
	1... ..		SCLCONTC	CONTINUATION CHAR. CHECK
	.1.. ..		SCLNOCT	NO CONTINUATION ALLOWED
	..1.		SCLCOMNT	COMMENTS ALLOWED
	...1		SCLNOSUC	AFTER CALL TO ROUT PROCESS ALTERNATE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
 1...		SCLSECS	PARSE DESC. NEXT AFTER CALL TO ROUT PROC. SEC. SUCCESSOR
	.... .1..		SCLNORT	PARSE DESC. NEXT DO NOT CALL ROUT EXIT ROUTINE UNLESS 'CALLRT=YES' IS GIVEN
	.... ..1.		SCLMULTR	ALLOW MULTIPLE RECORD SCANS
	.... ...1			RESERVED
33	(21) UNSIGNED	1	SCLFLG2	RESERVED
34	(22) UNSIGNED	1	SCLFLG3	RESERVED
35	(23) UNSIGNED	1	SCLUFUNC	FUNCTION BYTE HAS CONTENTS OF ADDRESS THAT TRT INSTR. STOPPED AT DURING TRT SCAN
36	(24) ADDRESS	4	SCLUTAB	ADDR OF USER PROCESSING TABLE
40	(28) SIGNED	2	SCLUINDX	INDEX WITHIN PROCESSING TABLE
42	(2A) SIGNED	2	SCLRESV2	RESERVED
44	(2C) ADDRESS	4	SCLUSER	USER-DEFINED WORK AREA
48	(30) SIGNED	4	SCLDATA	USER'S DATA FOR THE ROUT
52	(34) ADDRESS	4	SCLMBUFP	ADDR. OF MULTIPLE RECORD BUFFER
56	(38) UNSIGNED	2	SCLMBUFL	LENGTH OF MULTIPLE RECORD BUFFER
58	(3A) SIGNED	2	SCLFLG5	RESERVED
60	(3C) ADDRESS	4	SCLMBUFU	ADDR. OF FIRST UNUSED BYTE OF MULT. REC. BUFFER
64	(40) SIGNED	4	SCLRET	RETURN CODE
68	(44) SIGNED	4	SCLRSN	REASON CODE
72	(48) CHARACTER	4	SCLRSVD1	RESERVED
76	(4C) CHARACTER	4	SCLRSVD2	RESERVED
80	(50) CHARACTER	4	SCLRSVD3	RESERVED

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
84	(54) CHARACTER	4	SCLRSVD4	RESERVED
88	(58) CHARACTER	4	SCLRSVD5	RESERVED

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SCT

Common Name : Step Control Table
 Macro ID : IEFASCTB
 DSECT Name : INSMSCT
 Created by : IEFVEA
 Subpool and Key : 236 or 237 and key 1
 Size : 176 bytes
 Pointed to by : JCTDKAD field of the JCT data area
 JSCSCT field of the JSCB data area
 LCTSCTAD field of the LCT data area
 SCTANSCT field of the SCT data area

Serialization : None

Function : Contains job step information that is used by initiator and interpreter routines.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) FLOATING	8	INSMSCT	"x" STEP CONTROL TABLE
0	(0) CHARACTER	3	SCTDISKA	DISK ADDRESS OF SCT
3	(3) CHARACTER.... ..1.	1	SCTTBLID SCTID	TABLE ID OF SCT=2 "2"
4	(4) CHARACTER 1... ..	1	SCTSSTAT EAADDRBT	INTERNAL STEP STATUS "128"BIT 0 ON FOR ADDRSPC=REAL

EACAUSER EQU 64 CAN CAUSE ROLLOUT	AACA
-----------------------------------	------

..1.	SCTNORST	"32"BIT 2 NO RESTART TO BE DONE AACA
...1	SCTNOCKP	"16"BIT 3 NO CHECKPOINT TO BE TAKEN AACA
.... 1...	SCTDORST	"8"BIT 4 DO RESTART IF NECESSARY AACA

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OFFSETS TYPE LENGTH NAME DESCRIPTION

SCTKEY0 EQU	4 BIT 5 - FOR GRAPHICS - ALTER PROTECT KEY	AACA
SCTGRPH EQU	2 BIT 6 - FOR GRAPHICS - ABEND EXIT	AACA

5	.... ...1 (5) CHARACTER	3	INCMSSTS SCTSTIME	"1" BIT-7/STEP FAILED MAXIMUM STEP RUNNING TIME
8	(8) CHARACTER	2	SCTSEXEC	STEP STATUS CODE PASSED TO THE INITIATOR AT TERMINATE OR THE LENGTH OF THE PARM FIELD IN THE SCTX.
10	(A) CHARACTER	2	SCTLALOC	LENGTH OF ALLOCATION WORK AREA ALSO NUMBR OF GOOD DD CARDS
12	(C) CHARACTER	4	SCTFSIOT	DISK ADDRESS OF FIRST SIOT
16	(10) CHARACTER	4	SCTAALOC	DISK ADDRESS OF ALLOCATION WORK AREA
20	(14) CHARACTER	4	SCTANSCT	DISK ADDRESS OF NEXT SCT
24	(18) CHARACTER	4	SCTLSIOT	LAST SIOT FOR STEP
28	(1C) CHARACTER	4	SCTDDNT	SWA ADDRESS OF DDNT
32	(20) CHARACTER	4	SCTAFACT	DISK ADDRESS OF FIRST ACT FOR THIS STEP
36	(24) CHARACTER	4	SCTSWB	SCHEDULER WORK BLOCK(SWB) STRUCTURE POINTER
40	(28) CHARACTER	4	SCTADSTB	DISK ADDRESS OF DSNAME TABLE FOR THIS STEP
44	(2C) CHARACTER	8	SCTSC LPC	NAME OF STEP THAT CALLED PROCEDURE
52	(34) CHARACTER	8	SCTSNAME	STEPNAME
60	(3C) CHARACTER	2	SCTRPACT	RELATIVE POINTER TO STEP ENTRY IN ACT
62	(3E) CHARACTER	2		RESERVED
64	(40) CHARACTER	1	SCTSNUMB	STEP NUMBER

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
65	(41) CHARACTER	1	SCTNSMSG	NUMBER OF SET UP MESSAGES
66	(42) CHARACTER	1		RESERVED
67	(43) CHARACTER	1	SCTSTYPE	STEP TYPE
	1... ..		SCTGOSTP	"128" BIT 0- =1 IF PGM=*(GO)STEP(FETCH DCB) 19874
<div style="border: 1px solid black; padding: 5px;"> <p>EQU 64 BIT 1- =1 IF SYSIN IS SPECIFIED (DD *) 19874 EQU 32 BIT 2- =1 IF THE PARAMETER ASSOCIATED WITH A 19874 SYSOUT KEYWORD SPECIFIES THE MESSAGE CLASS 19874</p> </div>				
	...1		SCTSJFHK	"16" BIT 3 JFCB H/K COMPLETE
<div style="border: 1px solid black; padding: 5px;"> <p>BITS 4, 5, AND 6 ARE USED BY THE INITIATOR, AS FOLLOWS 000 - USE ACTION CODE 001 - GO TO AVR MODULE 010 - GO TO SPACE REQUEST 011 - GO TO EXTERNAL ACTION SETUP 100 - GO TO EXTERNAL ACTION VERIFY 101 - NULL 110 - NULL 111-NULL</p> </div>				
	.... ....1		SCTJSCAT	"1" BIT 7- =1 PRVT CAT IS JOBCAT, =0 FOR STEPCAT
68	(44) SIGNED	4	SCTXBTTR	TTR OF SCT EXTENSION BLOCK CONTAINING PARM AACA
72	(48) SIGNED	4	SCTMSADR	ADDRESS OF REGION IN MAIN STORAGE X'00 IN 1ST BYAACA
76	(4C) CHARACTER	4	SCTSRBT	ACCUMULATED SRB TIME FOR STEP

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OFFSETS TYPE LENGTH NAME DESCRIPTION

THE FOLLOWING FOUR BYTES ARE
 USED BY IEFSD41Q(MVT AND MFT-2),
 IEFSD42Q(MVT AND MFT-2),
 IEFW41SD(PCP),
 IEFW42SD(PCP),
 IEFYNIMP(ALL SYSTEMS)

I254
I254
I254
I254
I254

80	(50) CHARACTER	4	SCTLDSTB	LENGTH OF DSN TABLE
84	(54) CHARACTER	4	SCTPCAT	PRIV.CATALOG SIOT DISK ADDR
88	(58) SIGNED	2	SCTMSSZE	SIZE OF REGION IN MAIN STORAGE AACA
90	(5A) SIGNED	2		RESERVED
92	(5C) CHARACTER	2	SCTNIUSL	COUNT OF TOTAL NO. OF DD'S FOR A STEP
94	(5E) CHARACTER	2	SCTSDP	STEP DISPATCHING PRIORITY- SET IN IEF- VEA, I241 USED BY THE INITIATOR I241
	1... ..		SCTEPRFM	"128" BIT 0 = 1 PERFORM SPECIFIED ON EXEC STMT
	.1... ..		SCTPRFM2	"64" BIT 1 = 1 IF TWO BYTE PERFORM FIELD USED
	..1.		SCTFSTEP	"32" BIT 2-FIST STEP TO BE EXECUTED I241
96	(60) SIGNED	4	SCTSMF	STEP SYSIN COUNT FOR SMF SMF
100	(64) CHARACTER	4	SCTGOTTR	TTR OF PGM=*. SIOT AACA
104	(68) CHARACTER	4	SCTTIOT	THIS FIELD+1 IS A 3-BYTE TTRAACA OF THE STEP TIOT AACA
	.11. 1...		SCTSTAT2	"SCTTIOT" EXTENSION OF STEP STATUS INDI- CATORS AACA
	.11. 1...		SCTBCT	"SCTTIOT" STEP STATUS INDICATORS 19874 BIT 0 RESERVED 19874

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OFFSETS TYPE LENGTH NAME DESCRIPTION

THE FOLLOWING BIT INDICATES THAT DIRECT SYSOUT FACILITIES ARE 099
 REQUIRED FOR JOB SEPARATOR/SYSTEM MESSAGES 099

..1.			SCTMCVOL	"32" ALLOCATION FOR CVOL AAC A BIT 3 RESERVED 19874
.... 1...			SCTSTPLB	"8" BIT 4 STEPLIB PRESENT AAC A
.... .1..			SCTSPSYS	"4" BIT 5 =1 IF SPOOLED SYSIN FOR STEP (EXPRESS 0102 CANCEL)SET BYIEFVDA,TESTED BY IEESD575 0102 MVT AND MFT ONLY) 0102
.... ..1.			SCTJBEND	"2" JOB ENDED BIT AAC A
108	(6C) CHARACTER	8	SCTPGMNM	PROGRAM NAME
116	(74) CHARACTER	2	SCTPRFMF	PERFORMANCE GROUP NUMBER
118	(76) CHARACTER	2	SCTSDPCD	FIRST STEP DEPENDENCY CODE
120	(78) CHARACTER	1	SCTSDPOP	FIRST STEP DEPENDENCY OPERATOR
121	(79) CHARACTER	3	SCTSDPSA	DISK ADDRESS OF DEPENDENCY SCT
124	(7C) CHARACTER	36		SPACE FOR 6 MORE STEP DEPENDENCIES HW16
160	(A0) CHARACTER	1	SCTABCND	8TH CONDITION CODE SLOT IF EVEN OR HW16

ONLY WERE SPECIFIED, INFORMATION HERE. OTHERWISE, 8TH COND HW16
 CODE OR ZERO HW16

...1			SCTABCAN	"16" STEP CANCEL-PRIOR ABEND NO EVEN/ONLY HW16
.... 1...			SCTONLYC	"8" STEP CANCEL-ONLY WITH NO PRIOR ABEND(S) HW16
.... .1..			SCTABEND	"4" THIS STEP ABENDED HW16
.... ..1.			SCTEVEN	"2" COND=EVEN WAS SPECIFIED HW16
....1			SCTONLY	"1" COND=ONLY WAS SPECIFIED HW16
161	(A1) CHARACTER	5		TO COMPLETE CONDITION CODE SPACE HW16
166	(A6) CHARACTER	2	SCTCATCT	COUNT OF PRIV. CATALOG SIOTS

SCT

48 MVS/370 Debug Hdbk Vol 5

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OFFSETS TYPE LENGTH NAME DESCRIPTION

AACA				
AACA				
IN ORDER TO IMPLEMENT MVT IT HAS BEEN NECESSARY TO ADD				AACA
THE FOLLOWING FIELDS TO THE SCT. TO AVOID CAUSING				AACA
ERRORS IN THE CASE OF THE REASSEMBLING OF ALREADY				AACA
EXISTING MODULES WHICH REFERENCE THESE FIELDS,THEY				AACA
ARE GENERATED HERE ONLY AS COMMENTS. NOTE THAT IN				AACA
ACTUALITY THESE FIELDS OCCUPY THE 1ST 5 BYTES OF				
THE AREA THAT IMMEDIATELY FOLLOWS THESE COMMENTS.				
UNTIL THESE FIELDS ARE ACTUALLY INCORPORATED INTO THIS				AACA
MACRO,THEY MUST BE REFERENCED BY DISPLACEMENT (GIVEN				AACA
BELOW), PREFERABLY THROUGH THE USE OF EQUATES WITH				AACA
THE SYMBOLS DESIGNATED BELOW.				AACA
AACA				

168	(A8) CHARACTER	4		RESERVED
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SCTSTEND DS	CL1			BIT 0= STEP STARTED
BIT 1=STEP ENDED				AACA

..1.	SCTSYSCK	"32" BIT 2=RESTART REQUEST SYSTEM INITIATED, C/P DATA SET ALREADY BEEN VALIDATED. DISPLACEMENT 172 (DECIMAL)	AACA
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172	(AC) CHARACTER	3		RESERVED
1.1. 1111	SCTLNTH	"*-INSMCT" LENGTH OF SCT	AACA	

176	(B0) SIGNED	4	INDMDSNT(45)	
-----	-------------	---	--------------	--

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SCVT

Common Name : Secondary Communication Vector Table

Macro ID : IHASCVT

DSECT Name : SCVTSECT

Created by : SYSGEN

Subpool and Key : NUCLEUS resident and key 0

Size : 184 bytes

Pointed to by : CVTABEND field of the CVT data area

Serialization : None

Function : Used by non-resident routines to refer to routines used by the Supervisor, by ABEND, and other program components.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SCVTSECT	
0	(0) V-ADDRESS	4	SCVTPGTM	"V(IEAQPGTM)"- ADDR OF EOT TIMER PURGE ROUTINE
4	(4) ADDRESS	4	SCVTPGWR	ADDRESS OF WTO/WTOR RESOURCE MANAGER. INITIALLY CONTAINS ADDRESS OF BR 14. CHANGED TO IEECVPRG (MODULE IEAVMED2) BY COMMUNICATIONS TASK INITIALIZATION (IEA-VVINT).
8	(8) V-ADDRESS	4	SCVTSPET	"V(IEAQSPET)"- ADDR OF EOT SUBPOOL RELEASE
12	(C) BAL STMT	2	SCVTBR14	RETURN TO CALLER
14	(E) HEX	2		RESERVED
16	(10) ADDRESS	4		SCVTERAS FIELD UNUSED IN OS/VS2 RELEASE 2
20	(14) ADDRESS	4		SCVTQCBO FIELD UNUSED IN OS/VS2 RELEASE 2

SCVT

50 MVS/370 Debug Hdbk Vol 5

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) ADDRESS	4		SCVTPGEQ FIELD UNUSED IN OS/VS2 RELEASE 2
28	(1C) V-ADDRESS	4	SCVTRMBR	"V(RMBRANCH)"- ADDR OF REGMAIN BRANCH ENTRY
32	(20) ADDRESS	4		SCVTPGIO FIELD UNUSED IN OS/VS2 RELEASE 2
36	(24) ADDRESS	4	SCVTRACE	ADDR OF POINTER TO TRACE ROUTINE
40	(28) ADDRESS	4		SCVTTASW FIELD UNUSED IN OS/VS2 RELEASE 2
44	(2C) V-ADDRESS	4	SCVTCDCI	"V(IEAQCS02)"- ADDR OF CDCONTROL IN LINK
48	(30) V-ADDRESS	4	SCVTLFRM	"V(FMBRANCH)"- LIST FORMAT FREEMAIN BRANCH ENT PT
52	(34) ADDRESS	4		SCVTPABL FIELD UNUSED IN OS/VS2 RELEASE 2
56	(38) ADDRESS	4		SCVTDQTC FIELD UNUSED IN OS/VS2 RELEASE 2
60	(3C) V-ADDRESS	4	SCVTHSKP	"V(CDHKEEP)"- ADDR OF CDHKEEP IN EOT
64	(40) ADDRESS,	4	SCVTRPTR	ADDR OF TRACE TABLE POINTERS
68	(44) V-ADDRESS	4	SCVTGMBR	"V(GMBRANCH)"- LIST FORMAT GETMAIN BRANCH ENTRY POINT
72	(48) ADDRESS	4		SCVTAUCT FIELD UNUSED IN VS2
76	(4C) ADDRESS	4		SCVTROCT FIELD UNUSED IN VS2
80	(50) ADDRESS	4		SCVTROQ FIELD UNUSED IN VS2
84	(54) ADDRESS	4		SCVTRIRB FIELD UNUSED IN VS2

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
88	(58) ADDRESS	4		SCVTRTCB FIELD UNUSED IN VS2
92	(5C) ADDRESS	4	SCVTCOMM	ADDR OF COMM TASK ROUTINE
96	(60) ADDRESS	4		SCVTABLK FIELD UNUSED IN VS2
100	(64) ADDRESS	4		SCVTNFND FIELD UNUSED IN VS2
104	(68) ADDRESS	4		SCVTRMTC FIELD UNUSED IN OS/VS2 RELEASE 2
108	(6C) ADDRESS	4		SCVTMSSQ FIELD UNUSED IN OS/VS2 RELEASE 2
112	(70) ADDRESS	4	SCVTCTR1	_ SCVTCTCB FIELD UNUSED IN OS/VS2.
116	(74) ADDRESS	4		SCVTETCB FIELD UNUSED IN OS/VS2 RELEASE 2
120	(78) ADDRESS	4	SCVTRXLQ	ADDR OF RECOVERY EXTENT LIST
124	(7C) ADDRESS	4		SCVTRQND FIELD UNUSED IN OS/VS2 RELEASE 2
128	(80) ADDRESS	4		SCVTTAR FIELD UNUSED IN VS2
132	(84) V-ADDRESS	4	SCVTSVCT	"V(SVCTABLE)"- ORIGIN OF SVC TABLE
136	(88) ADDRESS	4		SCVTSTXP FIELD UNUSED IN OS/VS2 RELEASE 3
140	(8C) V-ADDRESS	4	SCVTTQE	"V(IEATSELM)"- ADDR OF TSO SUBSYSTEM'S TQE
144	(90) ADDRESS	4	SCVTTTRM	TSO TASK TERMINATION RESOUCER MANAGER
148	(94) V-ADDRESS	4	SCVTSTAT	"V(IGC07902)"- ADDR OF SVC STATUS ROUTINE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
152	(98) V-ADDRESS	4	SCVTQCBR	"V(QCBRANCH)"- BRANCH ENTRY POINT TO GETMAIN/ FREEMAIN QUICKCELL ROUTINE
156	(9C) ADDRESS	4		SCVTABBR FIELD UNUSED IN OS/VS2 RELEASE 2
160	(A0) ADDRESS	4		SCVTAPIO FIELD UNUSED IN OS/VS2 RELEASE 2
164	(A4) V-ADDRESS	4	SCVTPTRM	"V(IEAVTERM)"- ADDRESS OF REAL STORAGE MANAGER (RSM) TERMINATION RESOURCE MANAGER ROUTINE THAT QUIESCES PAGING I/O AND PGFIX REQUESTS
168	(A8) ADDRESS	4		SCVTHOOK FIELD UNUSED IN OS/VS2 RELEASE 2
172	(AC) V-ADDRESS	4	SCVTPIQE	"V(IEADQIQE)"- ADDR OF RESIDENT SUBROUTINE IN EOT TO REMOVE IQE'S FROM ASYNCHRONOUS EXIT QUEUE
176	(B0) ADDRESS	4		SCVTTMBR FIELD UNUSED IN OS/VS2 RELEASE 2
180	(B4) ADDRESS	4		SCVTFOMG FIELD UNUSED IN OS/VS2 RELEASE 2

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SDCT

Common Name : Swap Device Characteristics Table
 Macro ID : ILRSDCT
 DSECT Name : SDCT
 Created by : ILRASRIM
 Subpool and Key : 245 and key 0
 Size : 40 bytes plus 20 bytes for each entry plus 1 byte for each slot on a track for each entry.
 Pointed to by : SARSDCT field of the SART data area.
 The SRESDCTE field of the SARTE data area points to an SDCT entry (SDCTE).
 Serialization : None
 Function : The SDCT provides a single location for device-dependent information for ASM swapping logic.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	40	SDCT	BASE STRUCTURE IS SDCT
0	(0) CHARACTER	8	SDCHDR	HEADER FOR SDCT
0	(0) CHARACTER	4	SDCID	SDCT IDENTIFIER SET TO C'SDCT'
4	(4) UNSIGNED	2	SDCSIZE	NUMBER OF SDCTE'S
6	(6) UNSIGNED	2	SDCRSV1	RESERVED
SWAP DEVICE CHARACTERISTICS TABLE ENTRIES				
8	(8) SIGNED	32	SDCENTL	LENGTHS OF SDCT ENTRIES
40	(28) CHARACTER	0	SDCENTS	SDC ENTRIES. EACH ENTRY IS MAPPED BY SDCTE BELOW
0	(0) STRUCTURE	20	SDCTE	SWAP DEVICE TABLE ENTRY

SDCT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) CHARACTER	6	SDCDEVTP	EBCDIC DEVICE TYPE INDICATOR
6	(6) CHARACTER	2	SDCDTYPX	DEVICE TYPE IN BINARY
8	(8) UNSIGNED	2	SDCSLTRK	NUMBER OF SLOTS PER TRACK
10	(A) UNSIGNED	2	SDCCYLSZ	NUMBER OF SLOTS PER CYLINDER
12	(C) UNSIGNED	4	SDCCMASK	MASK FOR SAT CYLINDER MAP INIT
16	(10) UNSIGNED	1	SDCMPEXP	THE POWER OF 2 REPRESENTING THE NUMBER OF BYTES REQUIRED TO MAP A SINGLE CYLINDER FOR THIS DEVICE TYPE (ZERO ORIGINATED) RESERVED
17	(11) CHARACTER	3	SDCRESV	RESERVED
20	(14) UNSIGNED	0	SDCSSECT	SWAP SECTOR VALUES FOR THIS DEVICE TYPE (ONE ELEMENT FOR EACH SLOT ON A TRACK)

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SDUMP

Common Name : SVC Dump Parameter List
Macro ID : IHASDUMP
DSECT Name : SDUMP
Created by : SDUMP macro expansion
Subpool and Key : Subpool and key of the issuer of the SDUMP macro
Size : 48 bytes
Pointed to by : Register 1, when SVC dump is invoked through the SDUMP executable macro.
Serialization : None
Function : Parameter list to indicate to SVC dump that an SVC dump is requested and what storage areas are to be included in the dump.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SDUMP	, SDUMPPTR SDUMP PARAMETER LIST
	1... ..		BIT0	"128"
	.1.. ..		BIT1	"64"
	..1.		BIT2	"32"
	...1		BIT3	"16"
	.... 1...		BIT4	"8"
	.... .1..		BIT5	"4"
	.... ..1.		BIT6	"2"
	.... ...1		BIT7	"1"
0	(0) HEX	1	SDUFLAG0	FIRST BYTE OF FLAGS
	1... ..		SDUDCB	"BIT0" 1=USER SUPPLIED DCB 0=USE OF SYS1.DUMP DATA SET
	.1.. ..		SDUBUF	"BIT1" 1=DUMP 4K SQA BUFFER 0=BYPASS 4K SQA BUFFER
	..1.		SDUSTOR	"BIT2" 1=STORAGE LIST SPECIFIED 0=NO STORAGE LIST
	...1		SDUHDR	"BIT3" 1=USER DATA SPECIFIED 0=NO USER DATA
 1...		SDUECB	"BIT4" 1=ECB SPECIFIED 0=ECB NOT SPECIFIED
1..		SDUASID	"BIT5" 1=SCHEDULE DUMP REQUEST ASID SPE-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.		SDUQUIET	CIFIED 0=ASID NOT SPECIFIED "BIT6" 1=SET SYSTEM NON-DISPATCHABLE WHILE DUMPING SQA/CSA 0=MAINTAIN CURRENT SYSTEM STATUS
1	(1) HEX	1	SDUBRANH SDUFLAG1	"BIT7" 1=BRANCH ENTRY 0=SVC 51 ENTRY SECOND BYTE OF FLAGS
	1...		DUMPTYPE	"BIT0" 1=SVC DUMP REQUEST
	.1..		SDUABEND	"BIT1" 1=SYSMDUMP REQUEST
	..1.		SDUNEW	"BIT2" 1=ENHANCED SVC DUMP REQUEST
	...1		SDUASLST	"BIT3" 1=ASIDLST SPECIFIED
	.... 1...		SDUSULST	"BIT4" 1=SUMLIST SPECIFIED
	.... .1..		SDUIGNCD	"BIT5" 1=IGNORE CHNGDUMP OPTIONS
	.... .1.		SDUTSOXT	"BIT6" 1=TSO USER EXTENSION PRESENT
	.... ...1		SDUSE3P	"BIT7" 1=OS/VS2 JBB1226
2	(2) HEX	2	SDUSDATA	SDATA OPTION FLAGS
2	(2) HEX	1	SDUSDAT1	FIRST BYTE OF SDATA FLAGS
	1...		SDUALPSA	"BIT0" DUMP ALL PSA'S IN SYSTEM
	.1..		SDUPSA	"BIT1" DUMP THE CURRENT PSA
	..1.		SDUNUC	"BIT2" DUMP THE NUCLEUS
	...1		SDUSQA	"BIT3" DUMP SQA
	.... 1...		SDULSQA	"BIT4" DUMP LSQA
	.... .1..		SDURGN	"BIT5" DUMP REGION (PRIVATE AREA)
	.... .1.		SDULPA	"BIT6" DUMP ACTIVE LPA MOD. FOR RGN
	.... ...1		SDUTRT	"BIT7" DUMP TRACE TABLE GTF BUFFERS
3	(3) HEX	1	SDUSDAT2	SECOND BYTE OF SDATA FLAGS
	1...		SDUCSA	"BIT0" DUMP CSA
	.1..		SDUSWA	"BIT1" DUMP SWA FOR REGION
	..1.		SDUSMDMP	"BIT2" SUMMARY DUMP REQUESTED
	...1		SDUNSMMP	"BIT3" DO NOT DUMP SUMMARY DUMP
	.... 1...		SDUNAPSA	"BIT4" DO NOT DUMP ALL PSA
	.... .1..		SDUNASQA	"BIT5" DO NOT DUMP SQA
4	(4) ADDRESS	4	SDUDCBAD	ADDRESS USER SUPPLIED DCB
8	(8) ADDRESS	4	SDUSTORA	ADDRESS OF LISTA OR STORAGE RANGES
12	(C) ADDRESS	4	SDUHDRAD	ADDRESS OF USER DATA
16	(10) ADDRESS	4	SDUECBAD	ADDRESS USER SUPPLIED ECB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
20	(14) ADDRESS	4	SDUMASID	SCHEDULE DUMP ASIDS
20	(14) ADDRESS	2	SDUCASID	CALLERS ASID
22	(16) ADDRESS	2	SDUTASID	TARGET ASID OF SCHEDULE DUMP
24	(18) ADDRESS	4	SDUASIDP	ADDRESS CALLERS ASID LIST
28	(1C) ADDRESS	4	SDUSUMLP	ADDRESS CALLERS SUMMARY LIST
32	(20) CHARACTER	8	SDUTUSID	TSO USER ID THIS DUMP
32	(20) ADDRESS	4	SDUSYSMS	ADDR SYSMDUMP 4K SQA AREA
36	(24) ADDRESS	4	SDUSYSMC	ADDR SYSMDUMP CSA WORK AREA
40	(28) HEX 1... ..	1	SDUFLAG2 SDULISTA	BYTE OF SDUMP CONTROL FLAGS "BIT0" 1=LISTA PARAMETER SPECIFIED 0=LISTA PARAMETER NOT SPECIFIED
	.1.. ..		SDUSLSTA	"BIT1" 1=SUMLSTA PARAMETER SPECIFIED 0=SUMLSTA PARAMETER NOT SPECIFIED
	..1.		SDUSPEND	"BIT2" 1=SUSPEND=YES PARAMETER SPECIFIED 0=SUSPEND=NO OF PARAMETER LEFT OFF
41	(29) HEX	1		RESERVED
42	(2A) HEX	2	SDUTYPE	BYTE DESCRIBING TYPE PARAMETER
42	(2A) HEX 1... ..	1	SDUTYP1 SDUTYPXM	FIRST BYTE OF TYPE PARAMETERS "BIT0" 1=TYPE XMEM SPECIFIED 0=TYPE XMEM NOT SPECIFIED
	.1.. ..		SDUTPXME	"BIT1" 1=TYPE XMEME SPECIFIED 0=TYPE XMEME NOT SPECIFIED
43	(2B) HEX	1	SDUTYP2	SECOND BYTE OF TYPE PARAMETERS
44	(2C) HEX	4	SDUSDTA2	EXTENDED SDATA OPTIONS
44	(2C) HEX	2	SDUEXIT	EXIT ROUTINE OPTIONS
44	(2C) HEX 1... ..	1	SDUEDAT1 SDUGRSQ	SDATA OPTIONS FOR EXIT ROUTINES "BIT0" 1=GRSQ SDATA OPTION WAS SPECIFIED
45	(2D) HEX	1	SDUEDAT2	SDATA OPTIONS FOR EXIT ROUTINES

SDUMP

SDUMP

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OFFSETS TYPE LENGTH NAME DESCRIPTION

ADDITIONAL SDUMP EXITS SHOULD BE ADDED BEFORE THIS COMMENT.

46 (2E) HEX 2 RESERVED

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SDWA

Common Name : RTM System Diagnostic Work Area
Macro ID : IHASDWA
DSECT Name : SDWA
Created by : Global and local SDWA are preallocated; GETMAINED SDWAs;
 SRB mode-IEAVTRTS, Task mode-IEAVTAS1
Subpool and Key : Subpool 0 and key 8; subpool 230 and key 0;
 subpool 234 and key 0 (fetch protected)
Size : 512 (including variable recording area)
Pointed to by : Adjacent to each super FRR stack (global SDWA)
 ASXBFRWA field of the ASXB data area (local SDWA)
 RT1WRTCA field of the RT1W data area
 (GETMAIN'ed SDWA for SRB mode)
 RTM2RTCA field of the RTM2WA data area (task mode SDWA)
Serialization : Global SDWA: Physically disabled or globally locked
 Local SDWA: Local lock
 GETMAIN'ed SDWA: None
Function : The SDWA provides for communication between the RTM and
 STA/ESTA/FRR recovery routines. This collection of error data is
 also used for documentation of system control program(SCP) errors
 via recording on SYS1.LOGREC. The SDWA is also known as the RTCA.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SDWA	, SDWAPTR
0	(0) ADDRESS	4	SDWAPARM	PARAMETER LIST ADDRESS IF (E)STA MACRO SPECIFIED PARAM OPTION OR 0. FOR FRRS THIS IS THE ADDRESS OF THE 6 WORD PARM AREA RETURNED BY THE SETFRR MACRO WHEN THE PARMAD KEYWORD IS SPECIFIED ON THE SETFRR
4	(4) ADDRESS	4	SDWAFIOB	ADDRESS OF PURGE I/O REQUEST LIST (PIRL) OR 0 IF HALT I/O IS REQUESTED ON ENTRY TO RETRY ROUTINE FOR (E)STA.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
4	(4) BITSTRING	4	SDWAABCC	ABEND COMPLETION CODE ON ENTRY TO EXIT ROUTINE.
4	(4) BITSTRING 1... ..	1	SDWACMPF SDWAREQ	FLAG BITS IN COMPLETION CODE. "X'80'"- ON, SYSABEND/SYSDUMP/SYSDUMP DUMP TO BE GIVEN. SET IF DUMP=YES REQUESTED ON ABEND, CALLRTM OR SETRP MACRO.
	.1... ..		SDWASTEP	"X'40'"- ON, JOBSTEP TO BE TERMINATED. SET IF STEP OPTION SPECIFIED ON ABEND MACRO.
	...1 ..		SDWASTCC	"X'10'"- ON, DON'T STORE COMPLETION CODE. NOT USED IN OS/VS2 R2.
5	(5) BITSTRING	3	SDWACMPC	SYSTEM COMPLETION CODE (FIRST 12 BITS) AND USER COMPLETION CODE (SECOND 12 BITS).
8	(8) CHARACTER	8	SDWACTL1	BC MODE PSW AT TIME OF ERROR NOT INITIALIZED FOR FRRS.
8	(8) BITSTRING 1111 111.	1	SDWACMKA SDWAIOA	CHANNEL INTERRUPT MASKS. "X'FE'"- I/O INTERRUPTS (ALL ZEROS OR ALL ONES).
	.... ...1		SDWAEXTA	"X'01'"- EXTERNAL INTERRUPT.
9	(9) BITSTRING 1111	1	SDWAMWPA	PSW KEY AND 'M-W-P'.
	.... .1..		SDWAKEYA	"X'F0'"- PSW KEY.
	.... .1.		SDWAMCKA	"X'04'"- MACHINE CHECK INTERRUPT.
	.... ..1		SDWAWATA	"X'02'"- WAIT STATE.
	.... ...1		SDWASPVA	"X'01'"- SUPERVISOR/PROBLEM-PROGRAM MODE.
10	(A) CHARACTER	2	SDWAINTA	INTERRUPT CODE (LAST 2 BYTES OF INTERRUPT CODE IF I/O INTERRUPT).
12	(C) BITSTRING 11..	1	SDWAPMKA	INSTRUCTION LENGTH CODE, CONDITION CODE, AND PROGRAM MASKS.
	..11		SDWAILA	"X'C0'"- INSTRUCTION LENGTH CODE.
	.... 1...		SDWACCA	"X'30'"- LAST CONDITION CODE.
1..		SDWAFPA	"X'08'"- FIXED-POINT OVERFLOW.
1		SDWADOA	"X'04'"- DECIMAL OVERFLOW.
1		SDWAEUA	"X'02'"- EXPONENT UNDERFLOW.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
131 (D) ADDRESS	3	SDWASGA SDWANXTA	"X'01'"- SIGNIFICANCE. ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED.
16	(10) CHARACTER	8	SDWACTL2	BC MODE PSW FROM LAST PRB ON RB CHAIN. ZERO FOR FRRS.
16	(10) BITSTRING 1111 111.	1	SDWACMKP SDWAIOP	CHANNEL INTERRUPT MASKS. "X'FE'"- I/O INTERRUPTS (ALL ZEROS OR ALL ONES).
17	.... ...1 (11) BITSTRING 1111 ........ .1.. .... ..1. .... ...1	1	SDWAEXTP SDWAMWPP SDWAKEYP SDWAMCKP SDWAWATP SDWASPVP	"X'01'"- EXTERNAL INTERRUPT. PSW KEY AND 'M-W-P'. "X'F0'"- PSW KEY. "X'04'"- MACHINE CHECK INTERRUPT. "X'02'"- WAIT STATE. "X'01'"- SUPERVISOR/PROBLEM-PROGRAM MODE.
18	(12) CHARACTER	2	SDWAINTP	INTERRUPT CODE (LAST 2 BYTES OF INTERRUPT CODE IF I/O INTERRUPT).
20	(14) BITSTRING 11.. .... ..11 1... .... .1.. .... ..1. .... ...1	1	SDWAPMKP SDWAILP SDWACCP SDWAFPP SDWADOP SDWAEUP SDWASGP	INSTRUCTION LENGTH CODE, CONDITION CODE, AND PROGRAM MASKS. "X'C0'"- INSTRUCTION LENGTH CODE. "X'30'"- LAST CONDITION CODE. "X'08'"- FIXED-POINT OVERFLOW. "X'04'"- DECIMAL OVERFLOW. "X'02'"- EXPONENT UNDERFLOW. "X'01'"- SIGNIFICANCE.
21	(15) ADDRESS	3	SDWANXTA	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED.
24	(18) CHARACTER	64	SDWAGRSV	GENERAL PURPOSE REGISTERS AT TIME OF ERROR
24	(18) SIGNED	4	SDWAGR00	GPR 0.
28	(1C) SIGNED	4	SDWAGR01	GPR 1.
32	(20) SIGNED	4	SDWAGR02	GPR 2.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
36	(24) SIGNED	4	SDWAGR03	GPR 3.
40	(28) SIGNED	4	SDWAGR04	GPR 4.
44	(2C) SIGNED	4	SDWAGR05	GPR 5.
48	(30) SIGNED	4	SDWAGR06	GPR 6.
52	(34) SIGNED	4	SDWAGR07	GPR 7.
56	(38) SIGNED	4	SDWAGR08	GPR 8.
60	(3C) SIGNED	4	SDWAGR09	GPR 9.
64	(40) SIGNED	4	SDWAGR10	GPR 10.
68	(44) SIGNED	4	SDWAGR11	GPR 11.
72	(48) SIGNED	4	SDWAGR12	GPR 12.
76	(4C) SIGNED	4	SDWAGR13	GPR 13.
80	(50) SIGNED	4	SDWAGR14	GPR 14.
84	(54) SIGNED	4	SDWAGR15	GPR 15.
88	(58) CHARACTER	8	SDWANAME	IF PROBLEM PROGRAM MODE NAME OF ABENDING PROGRAM, OR ZERO IF NO NAME IS AVAILABLE. ZERO IF NOT RUNNING UNDER AN RB
88	(58) ADDRESS	4	SDWARBAD	RB ADDRESS OF ABENDING PROGRAM (IF SUPERVISOR MODE PROGRAM RUNNING UNDER AN RB)
92	(5C) HEX	4		CONTAINS ZEROS IF SUPERVISOR MODE PROGRAM RUNNING UNDER AN RB OR IF PROGRAM NOT RUNNING UNDER AN RB
96	(60) ADDRESS	4	SDWAEPA	ENTRY POINT ADDRESS OF ABENDING PROGRAM. ZERO IF NOT RUNNING UNDER AN RB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
100	(64) ADDRESS	4	SDWAI0BR	POINTER TO SDWAFIOB FIELD, OR 0 IF NO RETRY, OR 0 IF HALT I/O IS REQUESTED FOR (E)STA EXITS. ZERO FOR FRRS
104	(68) CHARACTER	8	SDWAECl	EXTENDED CONTROL PSW AT TIME OF ERROR(ABEND)
104	(68) BITSTRING .1... ..	1	SDWAEMK1 SDWAPER1	INTERRUPT INFORMATION MASKS "X'40'" ON, PROGRAM EVENT RECORDING INTERRUPTS CAN OCCUR OFF, PROGRAM EVENT RECORDING INTERRUPTS CANNOT OCCUR
	.... .1..		SDWATRM1	"X'04'" ON, ADDRESS TRANSLATION ACTIVE
	.... .1..		SDWAI01	"X'02'" OFF, I/O INTERRUPTION CAN NOT OCCUR ON, I/O INTERRUPTIONS CAN OCCUR SUBJECT TO CHANNEL MASK BITS IN CON- TROL REGS 2 AND 3
	.... ...1		SDWAEXT1	"X'01'" OFF, EXTERNAL INTERRUPTION CANNOT OCCUR ON, EXTERNAL INTERRUPTIONS CAN OCCUR SUBJECT TO EXTERNAL SUBCLASS MASK BITS OF CONTROL REG 0
105	(69) BITSTRING 1111	1	SDWAMWP1 SDWAKEY1	PSW KEY AND 'M-W-P' "X'F0'" PSW KEY
	.... 1...		SDWAECT1	"X'08'" EXTENDED CONTROL MODE BIT
	.... .1..		SDWAMCK1	"X'04'" OFF, MACHINE CHECK CANNOT OCCUR ON, MACHINE CHECK DUE TO SYSTEM DAMAGE AND INSTRUCTION-PROCESSING DAMAGE CAN OCCUR OTHER MACHINE CHECKS SUBJECT TO MASK BITS IN CONTROL REGISTER 14
	.... .1..		SDWAWAT1	"X'02'" ON, CPU IN WAIT STATE
	.... ...1		SDWAPGM1	"X'01'" ON, PROBLEM STATE OFF, SUPERVISOR STATE
106	(6A) BITSTRING 1... ..	1	SDWAIN11 SDWAS1	CONDITION CODE AND PROGRAM MASK "X'80'" ADDRESS SPACE SELECTION BIT
	..11		SDWACCl	"X'30'" CONDITION CODE
	.... 1...		SDWAFPO1	"X'08'" FIXED POINT OVERFLOW
	.... .1..		SDWADEC1	"X'04'" DECIMAL OVERFLOW
1..		SDWAEXP1	"X'02'" EXPONENT UNDERFLOW
1		SDWASGN1	"X'01'" SIGNIFICANCE
107	(6B) BITSTRING	1		RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
108	(6C) SIGNED	4	SDWANXT1	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED.
108	(6C) CHARACTER	1		RESERVED
109	(6D) CHARACTER	3	SDWAADD1	INSTRUCTION ADDRESS
112	(70) CHARACTER	8	SDWAAEC1	ADDITIONAL EC MODE INFORMATION
112	(70) CHARACTER	1		RESERVED
113	(71) BITSTRING	1	SDWAILC1	INSTRUCTION LENGTH CODE FOR PSW DEFINED BY SDWAAEC1
	.... .11.		SDWAIL1	"X'06'" ILC
114	(72) CHARACTER	2	SDWAINC1	INTERRUPT CODE. IF PROGRAM CHECK OCCURRED THE SUBFIELDS ARE FURTHER DIVIDED
114	(72) CHARACTER	1		RESERVED FOR IMPRECISE INTERRUPTS ON PROGRAM CHECK INTERRUPT
115	(73) BITSTRING	1	SDWAICD1	8 BIT INTERRUPT CODE IF PROGRAM CHECK
	1...		SDWAIPR1	"X'80'" PER INTERRUPT OCCURRED
	.1...		SDWAIMC1	"X'40'" MONITOR CALL INTERRUPT OCCURRED
	..11 1111		SDWAIPC1	"X'3F'" AN UNSOLICITED PROGRAM CHECK HAS OCCURRED
116	(74) ADDRESS	4	SDWATRAN	VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION
120	(78) CHARACTER	8	SDWAE2	EXTENDED CONTROL PSW FROM THE RB LEVEL WHICH CREATED THE ESTAE EXIT AT THE TIME IT LAST INCURRED AN INTERRUPT OR 0 FOR ESTAI. OR PSW USED TO GIVE FRR CONTROL
120	(78) BITSTRING	1	SDWAEMK2	INTERRUPT INFORMATION MASKS
	.1...		SDWAPER2	"X'40'" ON, PROGRAM EVENT RECORDING INTERRUPTS CAN OCCUR OFF, PROGRAM EVENT RECORDING INTERRUPTS CANNOT OCCUR
	.... .1..		SDWATRM2	"X'04'" ON, ADDRESS TRANSLATION ACTIVE
1.		SDWAI02	"X'02'" OFF, I/O INTERRUPTION CANNOT OCCUR ON, I/O INTERRUPTIONS CAN OCCUR SUBJECT TO CHANNEL MASK BITS IN CON-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1		SDWAEXT2	TROL REGS 2 AND 3 "X'01'" OFF, EXTERNAL INTERRUPTION CANNOT OCCUR ON, EXTERNAL INTERRUPTIONS CAN OCCUR SUBJECT TO EXTERNAL SUBCLASS MASK BITS OF CONTROL REG 0
121	(79) BITSTRING	1	SDWAMWP2	PSW KEY AND 'M-W-P'
	1111		SDWAKEY2	"X'F0'" PSW KEY
	.... 1...		SDWAECT2	"X'08'" EXTENDED CONTROL MODE BIT
	.... .1..		SDWAMCK2	"X'04'" OFF, MACHINE CHECK CANNOT OCCUR ON, MACHINE CHECK DUE TO SYSTEM DAMAGE AND INSTRUCTION-PROCESSING DAMAGE CAN OCCUR OTHER MACHINE CHECKS SUBJECT TO MASK BITS IN CONTROL REGISTER 14
	.... ..1.		SDAWAT2	"X'02'" ON, CPU IN WAIT STATE
	.... .1		SDWAPGM2	"X'01'" ON, PROBLEM STATE OFF, SUPERVISOR STATE
122	(7A) BITSTRING	1	SDWAIN2	CONDITION CODE AND PROGRAM MASK
	1...		SDWAS2	"X'80'" ADDRESS SPACE SELECTION BIT
	..11		SDWACC2	"X'30'" CONDITION CODE
	.... 1...		SDWAFFP02	"X'08'" FIXED POINT OVERFLOW
	.... .1..		SDWADEC2	"X'04'" DECIMAL OVERFLOW
	.... ..1.		SDWAEXP2	"X'02'" EXPONENT UNDERFLOW
	.... .1		SDWASGN2	"X'01'" SIGNIFICANCE
123	(7B) BITSTRING	1		RESERVED
124	(7C) SIGNED	4	SDWANXT2	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED
124	(7C) CHARACTER	1		RESERVED
125	(7D) CHARACTER	3	SDWAADD2	INSTRUCTION ADDRESS
128	(80) CHARACTER	8	SDWAAEC2	ADDITIONAL EC MODE INFORMATION
128	(80) CHARACTER	1		RESERVED
129	(81) BITSTRING	1	SDWAILC2	INSTRUCTION LENGTH CODE FOR PSW DEFINED BY SDWAAEC2
	.... .11.		SDWAIL2	"X'06'" ILC
130	(82) CHARACTER	2	SDWAINC2	INTERRUPT CODE. IF PROGRAM CHECK OCCURRED THE SUBFIELDS ARE FURTHER DIVIDED
130	(82) CHARACTER	1		RESERVED FOR IMPRECISE INTERRUPTS ON

SDWA

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
131	(83) BITSTRING 1... .. .1..11 1111	1	SDWAICD2 SDWAIPR2 SDWAIMC2 SDWAIPC2	PROGRAM CHECK INTERRUPT 8 BIT INTERRUPT CODE IF PROGRAM CHECK "X'80'" PER INTERRUPT OCCURRED "X'40'" MONITOR CALL INTERRUPT OCCURRED "X'3F'" AN UNSOLICITED PROGRAM CHECK HAS OCCURRED
132	(84) ADDRESS	4	SDWATRN2	VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION
136	(88) CHARACTER	64	SDWASRSV	GENERAL PURPOSE REGISTERS OF THE RB LEV- EL WHICH CREATED THE ESTAE EXIT AT THE TIME IT LAST INCURRED AN INTERRUPT OR 0 FOR ESTAI FOR FRRS INITIALIZED TO REGIS- TERS AT TIME OF ERROR. THIS REGISTER AREA IS USED TO UPDATE REGISTER CONTENTS FOR RETRY IF REQUESTED
136	(88) SIGNED	4	SDWASR00	GPR 0.
140	(8C) SIGNED	4	SDWASR01	GPR 1.
144	(90) SIGNED	4	SDWASR02	GPR 2.
148	(94) SIGNED	4	SDWASR03	GPR 3.
152	(98) SIGNED	4	SDWASR04	GPR 4.
156	(9C) SIGNED	4	SDWASR05	GPR 5.
160	(A0) SIGNED	4	SDWASR06	GPR 6.
164	(A4) SIGNED	4	SDWASR07	GPR 7.
168	(A8) SIGNED	4	SDWASR08	GPR 8.
172	(AC) SIGNED	4	SDWASR09	GPR 9.
176	(B0) SIGNED	4	SDWASR10	GPR 10.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
180	(B4) SIGNED	4	SDWASR11	GPR 11.
184	(B8) SIGNED	4	SDWASR12	GPR 12.
188	(BC) SIGNED	4	SDWASR13	GPR 13.
192	(C0) SIGNED	4	SDWASR14	GPR 14.
196	(C4) SIGNED	4	SDWASR15	GPR 15.
200	(C8) CHARACTER	4	SDWAIDNT	SDWA IDENTIFICATION ATTRIBUTES
200	(C8) CHARACTER	1	SDWASPID	SUBPOOL ID OF STORAGE CONTAINING THIS SDWA
201	(C9) CHARACTER	3	SDWALNTH	LENGTH OF THIS SDWA IN BYTES
204	(CC) CHARACTER	28	SDWAMCH	CONTAINS MACHINE CHECK DATA IF SDWAMCHK IS ON
204	(CC) CHARACTER	8	SDWASTCK	BEGINNING AND ENDING STORAGE CHECK ADDRESSES. FILLED IN DUE TO STORAGE ERROR (SDWASCK) OR A KEY FAILURE (SDWAS-KYF). THESE ADDRESSES ARE VALID ONLY IF INDICATED BY THE SDWASRVL FLAG.
204	(CC) ADDRESS	4	SDWASCKB	BEGINNING VIRTUAL ADDRESS OF STORAGE CHECK
208	(D0) ADDRESS	4	SDWASCKE	ENDING VIRTUAL ADDRESS OF STORAGE CHECK
212	(D4) BITSTRING	2	SDWAMCHI	ADDITIONAL MCH INFORMATION FLAGS
212	(D4) BITSTRING	1	SDWAMCHS	MCH FLAG BYTE
	1... ..		SDWASRVL	"X'80'" ON, STORAGE ADDRESSES SUPPLIED (SDWASTCK, SDWARFSA) ARE VALID.
	.1... ..		SDWARCDF	"X'40'" ON, MACHINE CHECK RECORD NOT RECORDED
	..1.		SDWATSVL	"X'20'" ON, TIME STAMP IS VALID
	...1		SDWAINVP	"X'10'" ON, STORAGE IS RECONFIGURED, PAGE IS INVALIDATED
 1...		SDWARSRC	"X'08'" ON, STORAGE RECONFIGURATION

SDWA

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				(SDWARSR1,SDWARSR2) STATUS AVAILABLE.
	.... .1..		SDWARSRF	"X'04'" ON,STORAGE RECONFIGURATION NOT ATTEMPTED. (SDWARSR1 AND SDWARSR2 ARE INVALID)
213	(D5) BITSTRING	1	SDWAMCHD	INPUT INFORMATION TO RECOVERY ROUTINE CONCERNING A MACHINE CHECK ERROR
	1...		SDWASKYF	"X'80'" ON,STORAGE KEY FAILURE
	.1..		SDWAREGU	"X'40'" ON,GENERAL PURPOSE REGISTER CONTENTS AT TIME OF MACHINE CHECK UNPREDICTABLE
	..1.		SDWAPSWU	"X'20'" ON,PSW AND/OR CONTROL REGISTERS AT TIME OF MACHINE CHECK UNPREDICTABLE
	....1		SDWASCK	"X'10'" ON,INDICATES STORAGE DATA CHECK
	.... 1...		SDWAACR	"X'08'" ON,INDICATES ACR REQUEST
	.... .1..		SDWAINSF	"X'04'" ON,INSTRUCTION FAILURE
	.... .1.		SDWAFPRX	"X'02'" ON,CONTENTS OF FLOATING POINT REGISTERS AT TIME MACHINE CHECK ARE UNPREDICTABLE
	.... ...1		SDWATERR	"X'01'" ON,TIMER ERROR CAUSES ENTRY TO RECOVERY ROUTINES ONLY IF LOGOUT FAILED.
214	(D6) CHARACTER	2	SDWACPID	ID OF OF FAILING CPU CAUSING ACR
216	(D8) BITSTRING	1	SDWARSR1	ADDITIONAL STORAGE FRAME ERROR INDICATORS AS RETURNED FROM REAL STORAGE RECONFIGURATION.
	.... ..1.		SDWAMSER	"X'02'" STORAGE ERROR ALREADY SET IN FRAME.
	.... ....1		SDWACHNG	"X'01'" CHANGE INDICATOR WAS ON IN FRAME.
217	(D9) BITSTRING	1	SDWARSR2	ADDITIONAL STORAGE ERROR INDICATORS.
	1...		SDWAOFLN	"X'80'" FRAME OFFLINE OR SCHEDULED TO GO OFFLINE IF SDWAINTC IS ON
	.1..		SDWAINTC	"X'40'" INTERCEPT THE FRAME IS SCHEDULED TO GO OFFLINE, OR THE FRAME HAS INCURRED A STORAGE ERROR, OR IS V=R
	..1.		SDWASPER	"X'20'" STORAGE ERROR PERMANENT ON FRAME.
1		SDWANUCL	"X'10'" FRAME CONTAINS PERMANENT RESIDENT STORAGE, I.E. NUCLEUS.
 1...		SDWAFSQA	"X'08'" FRAME IN SQA
1..		SDWAFLSQ	"X'04'" FRAME IN LSQA

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.		SDWAPGFX	"X'02'" FRAME IS PAGE FIXED
1		SDWAVEQR	"X'01'" FRAME IS VIRTUAL = REAL, OR SCHEDULED FOR VIRTUAL = REAL IF SDWAINTC IS ON
218	(DA) CHARACTER	2		RESERVED
220	(DC) ADDRESS	4	SDWARFSA	REAL STORAGE FAILING ADDRESS (VALID ONLY IF INDICATED BY SDWASRVL)
224	(E0) CHARACTER	8	SDWATIME	TIME STAMP OF ASSOCIATED MACHINE CHECK RECORD
232	(E8) BITSTRING	4	SDWAFLGS	INPUT FLAGS DESCRIBING REASONS AND CONDITIONS FOR ENTERING A RECOVERY EXIT ROUTINE.
232	(E8) BITSTRING	1	SDWAERRA	ERROR TYPE CAUSING ENTRY TO RECOVERY EXIT
	1...		SDWAMCHK	"X'80'" ON INDICATES MACHINE CHECK
	.1..		SDWAPCHK	"X'40'" ON INDICATES PROGRAM CHECK
	..1.		SDWARKEY	"X'20'" ON INDICATES CONSOLE RESTART KEY WAS DEPRESSED
	...1		SDWASVCD	"X'10'" ON INDICATES TASK ISSUED SVC 13
	.... 1...		SDWAABTM	"X'08'" ON INDICATES SYSTEM FORCED SVC 13(I.E.ABTERM)
	.... .1..		SDWASVCE	"X'04'" ON, INDICATES AN SVC WAS ISSUED BY A LOCKED OR SRB ROUTINE
	.... ..1.		SDWATEXC	"X'02'" ON, INDICATES AN UNRECOVERABLE TRANSLATION FAILURE
	.... ...1		SDWAPGIO	"X'01'" ON, INDICATES A PAGE I/O ERROR
	.... ...1		SDWASTRM	"X'01'" ON, INDICATES AN RTM1 SERVICE ROUTINE (SUCH AS IEAVTSR1 PROCESSING ITERM OR IEAVTRTM PROCESSING STERM) SCHEDULED RTM1 TO CONTINUE PROCESSING AS AN SVC ERROR (BY PUTTING SVC 13 IN THE PSW TO BE DISPATCHED).
233	(E9) BITSTRING	1	SDWAERRB	ADDITIONAL ERROR ENTRY INFORMATION
 1...		SDWATYP1	"X'08'" ON TYPE 1 SVC IN CONTROL AT TIME OF ERROR
1..		SDWAENRB	"X'04'" ON ENABLED RB IN CONTROL AT TIME

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				OF ERROR
			SDWALDIS	"X'02'" ON A LOGICALLY OR PHYSICALLY DISABLED ROUTINE WAS IN CONTROL AT THE TIME OF ERROR.
			SDWASRBM	"X'01'" ON SYSTEM IN SRB MODE AT TIME OF ERROR
234	(EA) BITSTRING	1	SDWAERRC	ADDITIONAL ERROR ENTRY INFORMATION
	1... ..		SDWASTAF	"X'80'" ON INDICATES A PREVIOUS (E)STA OR FRR EXIT FAILED.
	.1.. ..		SDWASTAI	"X'40'" ON A (E)STAI EXIT PREVIOUSLY RECEIVED CONTROL
	..1.		SDWAIRB	"X'20'" ON AN IRB PRECEDED THE RB THAT IS ASSOCIATED WITH THIS EXIT
	...1		SDWAPERC	"X'10'" ON THIS RECOVERY ROUTINE IS BEING PERCOLATED TO
	.... 1...		SDWAEAS	"X'08'" ON INDICATES A LOWER LEVEL EXIT HAS RECOGNIZED AN ERROR AND PROVIDED SERVICEABILITY INFORMATION
	.... .1..		SDWASKIP	"X'04'" ON INDICATES FRRS WERE SKIPPED
	.... ..1.		SDWALCL	"X'02'" ON IND ENTRY AS A LOCAL RESOURCE MGR
	.... ...1		SDWAGLBL	"X'01'" ON IND ENTRY AS A GLOBAL RESOURCE MGR
235	(EB) BITSTRING	1	SDWAERRD	ADDITIONAL ERROR ENTRY INFORMATION
	1... ..		SDWACLUP	"X'80'" ON INDICATES RECOVERY EXIT ONLY TO CLEANUP AND NOT RETRY (IF ESTA EXIT AND 33E COMPLETION CODE THE DUMP IS TAKEN AFTER ENTRY TO THE RECOVERY ROUTINE, IF THE COMPLETION CODE IS OTHER THAN 33E AND IT IS AN ESTA EXIT THE DUMP IS TAKEN BEFORE ENTRY TO THE RECOVERY ROUTINE)
	.1..		SDWANRBE	"X'40'" ON RB ASSOCIATED WITH THIS ESTA EXIT WAS NOT IN CONTROL AT TIME OF ERROR NEVER ON FOR FRRS
	..1.		SDWASTAE	"X'20'" ON THIS ESTA EXIT HAS BEEN ENTERED FOR A PREVIOUS ABEND NEVER ON FOR FRRS
	...1		SDWACTS	"X'10'" ON, THIS TASK WAS NOT IN CONTROL AT TIME OF ERROR BUT A TASK WITHIN THE SAME JOBSTEP TREE REQUESTED A 'STEP'

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.... 1...			SDWAMABD	ABEND. ONLY 'ON' IF SDWACLUP IS 'ON' "X'08'" ON, THIS TASK WAS NOT IN CONTROL AT TIME OF ERROR BUT AN ANCESTOR OF THIS TASK HAS ABEND'ED ONLY 'ON' IF SDWACLUP IS 'ON'.
.... .1..			SDWARPIV	"X'04'" ON, THE REGISTERS, PSW AND CON- TROL REGISTERS AT TIME OF ERROR ARE UNA- AVAILABLE
.... ..1.			SDWAMCIV	"X'02'" ON, MACHINE CHECK ERROR INFORMA- TION IS UNAVAILABLE.
.... ...1			SDWAERFL	"X'01'" ON, ERRORID INFORMATION AVAILABLE
236	(EC) CHARACTER	2	SDWAFMID	ASID OF MEMORY IN WHICH ERROR OCCURRED. =0, IF THE MEMORY IS CURRENT NOT=0, IF OTHER MEMORY IS CURRENT FOR FRRS- IF THE VALUE IS NON ZERO THE FRR IS RECEIVING CONTROL IN THE MASTER SCHEDULER ADDRESS SPACE AND CANNOT ADDRESS THE PRIVATE AREA OF THE FAILING ADDRESS SPACE. FOR ESTA- IF THE VALUE IS NON ZERO ENTRY IS DUE TO CROSS MEMORY ABTERM.
238	(EE) BITSTRING	1	SDWAIOFS	THIS IS THE CURRENT I/O STATUS (THE I/O PROCESSING REQUESTED BY THE FIRST (E)STA EXIT IS THE ONLY REQUEST HONORED)
	1... ..		SDWAIOQR	"X'80'" ON, I/O FOR FAILING PROGRAM HAS BEEN QUIESCED AND IS RESTOREABLE
	.1.. ..		SDWAIOHT	"X'40'" ON, I/O FOR FAILING PROGRAM HAS BEEN HALTED AND IS NOT RESTOREABLE
	..1.		SDWANOID	"X'20'" ON, FAILING PROGRAM HAS NO I/O OUTSTANDING
	...1		SDWANIOP	"X'10'" ON, USER REQUESTED NO I/O PROC- ESSING
239	(EF) CHARACTER	1	SDWACPUI	ERRORID LOGICAL CPUID
240	(F0) ADDRESS	4	SDWARTYA	ADDRESS OF RETRY ROUTINE
244	(F4) ADDRESS	4	SDWARECA	ADDRESS OF VARIABLE RECORDING AREA WITH- IN SDWA

SDWA

SDWA

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
248	(F8) CHARACTER	4	SDWACPUA	ADDRESS OF CPU HOLDING RESOURCE WHICH CAUSES VALID SPIN ON CURRENT CPU USED WITH RESTART KEY ERROR TYPE. IF THIS FIELD IS VALIDLY FILLED IN BY AN FRR THE FRRS MAINLINE PROGRAM WILL BE RESUMED AT THE NEXT SEQUENTIAL INSTRUCTION. NOT VALID FOR ESTAE EXITS.
248	(F8) CHARACTER	2		RESERVED
250	(FA) SIGNED	2	SDWALCPU	LOGICAL ADDRESS OF CPU HOLDING RESOURCE
252	(FC) BITSTRING	4	SDWAPARQ	FLAGS SET BY RECOVERY ROUTINE TO REQUEST FURTHER PROCESSING ACTION
252	(FC) BITSTRING	1	SDWARCDE	RETURN CODE FROM RECOVERY ROUTINE TO INDICATE RETRY OR TERMINATION
	.... ....		SDWACWT	"0" 0 ,CONTINUE WITH TERMINATION. THIS INDICATION IMPLIES PERCOLATION
	.... .1..		SDWARETY	"4" 4 ,RETRY USING RETRY ADDRESS IN SDWARTYA FIELD
	...1		SDWAPSTI	"16" 16,PREVENT FURTHER (E)STAI PROCESSING
253	(FD) BITSTRING	1	SDWAACF2	FLAGS TO INDICATE ADDITIONAL PROCESSING REQUESTS
	1...		SDWARCRD	"X'80'" ON,RECORDING REQUESTED
	..1.		SDWASPIN	"X'20'" ON,PROGRAM INTERRUPTED VIA THE RESTART KEY WAS IN A VALID SPIN(SET BY THE SETRP MACRO WHEN CPU ADDRESS IS SPECIFIED ALONG WITH THE CPU ADDRESS IN SDWACPUA FIELD TO ALLOW RESTART OF THE ALTERNATE CPU)
	...1		SDWARERR	"X'10'" ON,RETRY USING THE CROSS MEMORY ADDRESSING ENVIRONMENT AT THE TIME OF THE ERROR. OFF,RETRY USING THE CROSS MEMORY ADDR ENV ON ENTRY TO THE FRR.
	.... 1...		SDWAUPRG	"X'08'" ON,UPDATED REGISTERS STARTING WITH SDWASR00 ARE TO BE USED FOR RETRY
	.... .1..		SDWAFREE	"X'04'" ON,SDWA/RTCA TO BE FREED PRIOR TO RETRY. ONLY VALID FOR ESTA EXITS
1.		SDWASERP	"X'02'" ON,SERIALIZE PERCOLATION (USED WHEN AN SRB MODE FRR PERCOLATES SERIALLY

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1		SDWACML	TO A RELATED TASK) "X'01'" ON,FREE THE CROSS MEMORY LOCAL LOCK
254	(FE) BITSTRING	1	SDWAACF3	FLAGS INDICATING WHAT GLOBAL LOCKS ARE TO BE FREED (KEY 0 SUPERVISOR ONLY) ONLY VALID FOR FRRS.
	...1		SDWADISP	"X'10'" ON,THE DISPATCHER LOCK
	.... 1...		SDWAASMP	"X'08'" ON,THE ASM CLASS LOCK Z40WPXH
	.... .1..		SDWASALL	"X'04'" ON, THE SALLOC LOCK
	.... .1.		SDWAIPRG	"X'02'" ON, THE IOSYNCH LOCK
	.... .1		SDWAICAT	"X'01'" ON,THE IOSCAT LOCK
255	(FF) BITSTRING	1	SDWAACF4	ADDITIONAL LOCKS TO BE FREED FOR FRRS
	1...		SDWAIUCB	"X'80'" ON, THE IOSUCB LOCK
	.1..		SDWAILCH	"X'40'" ON, THE IOSLCH LOCK
	..1.		SDWATNCB	"X'20'" RESERVED LOCK Z40WPXH
	...1		SDWATDNB	"X'10'" RESERVED LOCK Z40WPXH
	.... 1...		SDWATADB	"X'08'" RESERVED LOCK Z40WPXH
	.... .1..		SDWAOPTM	"X'04'" ON,THE SYSTEM RESOURCES MGR(SRM) LOCK LOCK
	.... .1.		SDWACMS	"X'02'" ON,THE CMS LOCK
	.... .1		SDWAFLK	"X'01'" ON,THE LOCAL LOCK
256	(100) CHARACTER	32	SDWALKWA	LOCK AREA
256	(100) CHARACTER	32	SDWALKWS	LOCKWORDS REQUIRED TO FREE GLOBAL LOCKS ONLY USED FOR FRRS
256	(100) ADDRESS	4	SDWAICLW	LOCKWORD FOR THE IOSCAT LOCK
260	(104) ADDRESS	4	SDWAIULW	LOCKWORD FOR THE IOSUCB LOCK
264	(108) ADDRESS	4	SDWAILLW	LOCKWORD FOR THE IOSLCH LOCK
268	(10C) ADDRESS	4	SDWAIPLW	LOCKWORD FOR THE IOSYNCH LOCK
272	(110) ADDRESS	4	SDWAAPLW	LOCKWORD FOR THE ASM CLASS LOCK Z40WPXH
276	(114) ADDRESS	4	SDWATNLW	LOCKWORD RESERVED Z40WPXH
280	(118) ADDRESS	4	SDWATDLW	LOCKWORD RESERVED Z40WPXH

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
284	(11C) ADDRESS	4	SDWATALW	LOCKWORD RESERVED Z40WPXH
288	(120) CHARACTER	2	SDWAASID	ASID FOR LOGREC DEBUGGING (HOME ASID)
290	(122) CHARACTER	2	SDWASEQ#	ERRORID SEQUENCE NUMBER
292	(124) CHARACTER	24	SDWARECP	RECORDING PARAMETERS (MODULE,CSECT AND RECOVERY ROUTINE NAMES-RESPECTIVELY)
292	(124) CHARACTER	8	SDWAMODN	THE LOAD MODULE NAME INVOLVED IN THE ERROR (SUPPLIED BY THE RECOVERY ROUTINE)
300	(12C) CHARACTER	8	SDWAC SCT	THE CSECT (MICROFICHE) NAME INVOLVED IN THE ERROR (SUPPLIED BY THE RECOVERY ROUTINE)
308	(134) CHARACTER	8	SDWAREXN	THE RECOVERY ROUTINE (MICROFICHE) NAME HANDLING THE ERROR (SUPPLIED BY THE RECOVERY ROUTINE)
316	(13C) ADDRESS	4	SDWADPLA	POINTER TO DUMP PARAMETER LIST RESIDING IN SDWA
320	(140) CHARACTER	8	SDWASNPA	SNAP PARAMETER LIST FLAGS
320	(140) CHARACTER	4	SDWADUMP	DUMP CHARACTERISTICS
320	(140) CHARACTER	1	SDWADPID	ID OF DUMP REQUESTED
321	(141) BITSTRING	1	SDWADPFS	DUMP FLAGS
	1... ..		SDWADPT	"X'80'" ALWAYS OFF, INDICATES SNAP DUMP REQUEST
	.1... ..		SDWADLST	"X'40'" ALWAYS ON, INDICATES OS/V52 REL. 2 DUMP PARAMETER LIST SUPPLIED USED BY RTM TO INDICATE DUMP OPTIONS ARE AVAILABLE IN THE SDWA
	..1.		SDWAENSN	"X'20'" ON, ENHANCED DUMP OPTIONS
	.... ..1.		SDWASLST	"X'02'" ON, STORAGE LISTS SUPPLIED FOR DUMP
322	(142) BITSTRING	1	SDWADPF2	DUMP FLAGS 2
	1... ..		SDWADV3	"X'80'" ON, STORAGE RANGES IN SDWADSR,

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
323	(143) CHARACTER	1		OFF, STORAGE RANGES IN SDWADPSL RESERVED
324	(144) CHARACTER	4	SDWADDAT	SDATA AND PDATA OPTIONS
324	(144) CHARACTER	2	SDWASDAT	SDATA OPTIONS
324	(144) BITSTRING	1	SDWASDAO	SDATA OPTIONS FLAG ONE
	1... ..		SDWANUC	"X'80'" DISPLAY NUCLEUS
	.1.. ..		SDWASQA	"X'40'" DISPLAY SQA
	..1.		SDWALSQA	"X'20'" DISPLAY LSQA
	...1		SDWASWA	"X'10'" DISPLAY SWA
	.... 1...		SDWAGTF	"X'08'" DISPLAY GTF INCORE TRACE TABLE
	.... .1..		SDWACBS	"X'04'" FORMAT AND DISPLAY CONTROL BLOCKS
	.... ..1.		SDWAQQS	"X'02'" FORMAT AND DISPLAY QCBS/QELS
	.... ...1		SDWADM	"X'01'" FORMAT DATA MGT CONTROL BLOCKS
325	(145) BITSTRING	1	SDWASDA1	SDATA OPTIONS
	1... ..		SDWAIO	"X'80'" FORMAT I/O SUPERVISOR CONTROL BLOCKS
	.1.. ..		SDWAERR	"X'40'" FORMAT ERROR CONTROL BLOCKS
326	(146) BITSTRING	1	SDWAPDAT	PDATA OPTIONS
	1... ..		SDWADSAS	"X'80'" DISPLAY SAVE AREAS
	.1.. ..		SDWADSAH	"X'40'" DISPLAY SAVE AREA HEADER
	..1.		SDWADREG	"X'20'" DISPLAY REGISTERS
	...1		SDWATLPA	"X'10'" DISPLAY LPA MODULES OF TASK
	.... 1...		SDWATJPA	"X'08'" DISPLAY JPA MODULES OF TASK
	.... .1..		SDWADPSW	"X'04'" DISPLAY PSW
	.... ..1.		SDWAUSPL	"X'02'" DISPLAY USER SUBPOOLS
327	(147) BITSTRING	1		RESERVED
328	(148) CHARACTER	36	SDWADPSA	DUMP RANGES AREA
328	(148) CHARACTER	32	SDWADPSL	DUMP STORAGE LISTS (MAX 4 RANGES AVAIL- ABLE)
328	(148) ADDRESS	4	SDWAFRM1	BEGINNING ADDRESS FOR STORAGE RANGE 1
332	(14C) ADDRESS	4	SDWAT01	ENDING ADDRESS FOR STORAGE RANGE 1

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
336	(150) ADDRESS	4	SDWAFRM2	BEGINNING ADDRESS FOR STORAGE RANGE 2
340	(154) ADDRESS	4	SDWAT02	ENDING ADDRESS FOR STORAGE RANGE 2
344	(158) ADDRESS	4	SDWAFRM3	BEGINNING ADDRESS FOR STORAGE RANGE 3
348	(15C) ADDRESS	4	SDWAT03	ENDING ADDRESS FOR STORAGE RANGE 3
352	(160) ADDRESS	4	SDWAFRM4	BEGINNING ADDRESS FOR STORAGE RANGE 4
356	(164) ADDRESS	4	SDWAT04	ENDING ADDRESS FOR STORAGE RANGE 4
360	(168) ADDRESS	4		RESERVED SDWAVERI IS TO INDICATE THE VERSION OF THE SDWA VIA A NUMBER IN THE SDWAVID
364	(16C) CHARACTER	4	SDWAVERI	SDWA VERSION INDICATOR
364	(16C) CHARACTER	2	SDWAVERF	FFFF INDICATES VID FIELD IS VALID
366	(16E) CHARACTER	2	SDWAVID	VERSION INDICATOR
	.... ...1		SDWAVS3	"1" 1, INDICATES THE SDWA IS AT AN MVS/SYSTEM PRODUCT RELEASE 2 LEVEL
368	(170) ADDRESS	4	SDWAXPAD	ADDRESS OF THE EXTENSION POINTERS
372	(174) CHARACTER	12	SDWAXM	CROSS MEMORY INFORMATION
372	(174) CHARACTER	8	SDWACRGS	CONTROL REGISTERS 3 AND 4
372	(174) CHARACTER	4	SDWACR3	CONTROL REGISTER 3
372	(174) CHARACTER	2	SDWAKM	KEY MASK
374	(176) CHARACTER	2	SDWASCND	ASID OF THE SECONDARY ADDR SPACE SASID
376	(178) CHARACTER	4	SDWACR4	CONTROL REGISTER 4
376	(178) CHARACTER	2	SDWAAX	AUTHORIZATION INDEX
378	(17A) CHARACTER	2	SDWAPRIM	ASID OF THE PRIMARY ADDR SPACE PASID
380	(17C) ADDRESS	4	SDWACMLA	ADDRESS OF ASCB OF CML TO BE FREED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
384	(180) CHARACTER	8	SDWACOMU	FRR TO ESTAE COMMUNICATION BUFFER
392	(188) ADDRESS	4	SDWACOMP	THIS WORD IS PROVIDED FOR COMMUNICATION OF ADDITIONAL RECOVERY DATA ON A PER COMPONENT BASIS (FOR OS/VS2 RELEASE 2 THIS FIELD IS ONLY USED BY DATA MANAGER)
396	(18C) CHARACTER	4	SDWAERTM	ERRORID TIME STAMP
400	(190) CHARACTER	264	SDWARA	VARIABLE RECORDING AREA PREFIXED BY A TWO BYTE LENGTH FIELD OF AREA, A ONE BYTE FLAG FIELD, AND A ONE BYTE FIELD WITH LENGTH OF USER SUPPLIED RECORDING INFORMATION
400	(190) CHARACTER	2	SDWAVRAL	LENGTH OF VARIABLE RECORDING AREA
402	(192) BITSTRING	1	SDWADPVA	BITS THAT DEFINE DATA IN VARIABLE AREA
	1... ..		SDWAHEX	"X'80'" SDWAVRA DATA TO BE PRINTED BY EREP IN HEX
	.1... ..		SDWAEBBC	"X'40'" SDWAVRA DATA TO BE PRINTED BY EREP IN EBCDIC
	..1.		SDWAVRAM	"X'20'" SDWAVRA DATA IS IN THE FORMAT MAPPED BY THE VRAMAP DSECT (IHAVRA MAC-RO)
403	(193) CHARACTER	1	SDWAURAL	LENGTH OF USER SUPPLIED INFORMATION IN THE VARIABLE RECORDING AREA (ZEROED BEFORE EACH RECOVERY ROUTINE IS INVOKED)
404	(194) CHARACTER	255	SDWAVRA	VARIABLE RECORDING AREA
659	(293) CHARACTER	5	SDWARRSV	FILLER TO DOUBLEWORD BDY
664	(298) FLOATING	8	SDWAEND	END OF NON-EXTENDED SDWA
0	(0) STRUCTURE	0	SDWARC1	, RECORDABLE EXTENSION, BASED ON SDWASRVP
0	(0) CHARACTER	64	SDWASERV	ADDITIONAL COMPONENT SERVICE DATA
0	(0) CHARACTER	5	SDWACID	COMPONENT ID OF THE COMPONENT INVOLVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
5	(5) CHARACTER	23	SDWASC	IN THE ERROR (FOR EXAMPLE, SC1CR) NAME OF THE SUBCOMPONENT AND THE MODULE SUBFUNCTION INVOLVED IN THE ERROR
28	(1C) CHARACTER	16	SDWAMLVL	LEVEL OF THE MODULE INVOLVED IN THE ERROR
28	(1C) CHARACTER	8	SDWAMDAT	ASSEMBLY DATE OF THE MODULE INVOLVED IN THE ERROR
36	(24) CHARACTER	8	SDWAMVRS	VERSION OF THE MODULE PTF OR PRODUCT NUMBER
44	(2C) CHARACTER	4	SDWACRC	COMPONENT REASON CODE OR RETURN CODE ASSOCIATED WITH THE ABEND
44	(2C) SIGNED	4	SDWAHRC	HEXADECIMAL COMPONENT REASON CODE OR RETURN CODE ASSOCIATED WITH THE ABEND
48	(30) CHARACTER	8	SDWARRL	LABEL OF THE RECOVERY ROUTINE THAT FILLED IN THIS SDWA
56	(38) CHARACTER	4	SDWACIDB	THE COMPONENT ID BASE (PREFIX) NUMBER, SUCH AS 5741.
60	(3C) CHARACTER	4		RESERVED
64	(40) FLOATING	8	SDWASEND	END OF SERV EXTENSION OF SDWA
0	(0) STRUCTURE	0	SDWAPTRS	, POINTED TO BY SDWAXPAD, THIS PTR SECTION MUST BE A DOUBLEWORD LENGTH (MULTIPLE OF 8) AND ALL EXTENSIONS MUST BE A DOUBLEWORD LENGTH (MULTIPLE OF 8)
0	(0) ADDRESS	4	SDWADSRP	DUMP STORAGE RANGES PTR
4	(4) ADDRESS	4	SDWASRVP	ADDITIONAL COMPONENT SERVICE DATA PTR
8	(8) FLOATING	8	SDWAPEND	END OF PTRS EXTENSION OF SDWA

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	SDWANRC1	, NONRECORDABLE EXTENSION, BASED SDWADSRP
0	(0) CHARACTER	240	SDWADSR	DUMP STORAGE RANGES
240	(F0) FLOATING	8	SDWAREND	END OF DSR EXTENSION OF SDWA
	.... 1...		SDWALEN	"SDWAEND-SDWA" LENGTH OF SDWA
	1111		SDWAPLEN	"SDWAPEND-SDWAPTRS" LENGTH OF PTRS EXTENSION
	.1..		SDWARLEN	"SDWAREND-SDWANRC1" LENGTH OF DSR EXTENSION
			SDWACLEN	"SDWASEND-SDWARC1" LENGTH OF SERV EXTENSION
			SDWAMLEN	"SDWALEN+SDWAPLEN+SDWACLEN" TOTAL LENGTH OF SUPER STACK SDWA AND EXTENSIONS
			SDWATLEN	"SDWALEN+SDWAPLEN+SDWACLEN+SDWARLEN" TOTAL LENGTH OF SDWA AND EXTENSIONS
			SDWASLEN	"SDWALEN+SDWAPLEN+SDWACLEN+272" GETMAIN LENGTH FOR SUPER STACK FRR SDWA
			SDWAFLEN	"SDWALEN+SDWAPLEN+SDWACLEN+SDWARLEN+272" GETMAIN LENGTH FOR NORMAL STACK FRR SDWA
		SDWANOPR	"0" THIS FIELD IS ONLY DEFINED IN ASSEMBLER VERSION OF THE SDWA. ITS PURPOSE IS TO FLAG INCOMPATIBLE USE OF SETRP AND SDWA.
664	(298) STRUCTURE	0	SDWA	

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SDWA	298		SDWACR4	178		SDWAENSN	141	20
SDWAABCC	4		SDWACSCCT	12C		SDWAEP A	60	
SDWAABTM	E8	08	SDWACTL1	8		SDWAERFL	EB	01
SDWAACF2	FD		SDWACTL2	10		SDWAERR	145	40
SDWAACF3	FE		SDWACTS	EB	10	SDWAERRA	E8	
SDWAACF4	FF		SDWACWT	FC	00	SDWAERRB	E9	
SDWAACR	D5	08	SDWADDAT	144		SDWAERRC	EA	
SDWAADD1	6D		SDWADEC1	6A	04	SDWAERRD	EB	
SDWAADD2	7D		SDWADEC2	7A	04	SDWAERTM	18C	
SDWAAEC1	70		SDWADISP	FE	10	SDWAEUA	C	02
SDWAAEC2	80		SDWADLST	141	40	SDWAEUP	14	02
SDWAAPLW	110		SDWADM	144	01	SDWAEXP1	6A	02
SDWAASID	120		SDWADOA	C	04	SDWAEXP2	7A	02
SDWAASMP	FE	08	SDWADOP	14	04	SDWAEXTA	8	01
SDWAAX	178		SDWADPFS	141		SDWAEXTP	10	01
SDWACBS	144	04	SDWADPF2	142		SDWAEXT1	68	01
SDWACCA	C	30	SDWADPID	140		SDWAEXT2	78	01
SDWACCP	14	30	SDWADPLA	13C		SDWAFIOB	4	
SDWACC1	6A	30	SDWADPSA	148		SDWAFLEN	F0	04E0
SDWACC2	7A	30	SDWADPSL	148		SDWAF LGS	E8	
SDWACHNG	D8	01	SDWADPSW	146	04	SDWAFLLK	FF	01
SDWACID	0		SDWADPT	141	80	SDWAFLSQ	D9	04
SDWACIDB	38		SDWADPVA	192		SDWAFMID	EC	
SDWACLEN	F0	40	SDWADREG	146	20	SDWAFPA	C	08
SDWACLUP	EB	80	SDWADSAH	146	40	SDWAFPO1	6A	08
SDWACMKA	8		SDWADSAS	146	80	SDWAFPO2	7A	08
SDWACMKP	10		SDWADSR	0		SDWAFPP	14	08
SDWACML	FD	01	SDWADSRP	0		SDWAFPRX	D5	02
SDWACMLA	17C		SDWADUMP	140		SDWAFREE	FD	04
SDWACMPC	5		SDWADV S3	142	80	SDWAFRM1	148	
SDWACMPF	4		SDWAEAS	EA	08	SDWAFRM2	150	
SDWACMS	FF	02	SDWAEBC	192	40	SDWAFRM3	158	
SDWACOMP	188		SDWAECT1	69	08	SDWAFRM4	160	
SDWACOMU	180		SDWAECT2	79	08	SDWAFSQA	D9	08
SDWACPID	D6		SDWAE C1	68		SDWAGLBL	EA	01
SDWACPUA	F8		SDWAE C2	78		SDWAGRSV	18	
SDWACPUI	EF		SDWAE MK1	68		SDWAGR00	18	
SDWACRC	2C		SDWAE MK2	78		SDWAGR01	1C	
SDWACRGS	174		SDWAE ND	298		SDWAGR02	20	
SDWACR3	174		SDWAE NR B	E9	04	SDWAGR03	24	

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SDWAGR04	28		SDWAI0FS	EE		SDWAMODN	124	
SDWAGR05	2C		SDWAI0HT	EE	40	SDWAMSER	D8	02
SDWAGR06	30		SDWAI0P	10	FE	SDWAMVRS	24	
SDWAGR07	34		SDWAI0QR	EE	80	SDWAMWPA	9	
SDWAGR08	38		SDWAI01	68	02	SDWAMWPP	11	
SDWAGR09	3C		SDWAI02	78	02	SDWAMWP1	69	
SDWAGR10	40		SDWAI0C1	73	3F	SDWAMWP2	79	
SDWAGR11	44		SDWAI0C2	83	3F	SDWANAME	58	
SDWAGR12	48		SDWAIPLW	10C		SDWANIOP	EE	10
SDWAGR13	4C		SDWAI0PRG	FE	02	SDWANOIO	EE	20
SDWAGR14	50		SDWAI0PR1	73	80	SDWANOPR	F0	00
SDWAGR15	54		SDWAI0PR2	83	80	SDWANRBE	EB	40
SDWAGTF	144	08	SDWAI0RB	EA	20	SDWANRC1	0	
SDWAHEX	192	80	SDWAI0UCB	FF	80	SDWANUC	144	80
SDWAHRC	2C		SDWAI0ULW	104		SDWANUCL	D9	10
SDWAICAT	FE	01	SDWAKEYA	9	F0	SDWANXTA	D	
SDWAICD1	73		SDWAKEYP	11	F0	SDWANXTP	15	
SDWAICD2	83		SDWAKEY1	69	F0	SDWANXT1	6C	
SDWAICLW	100		SDWAKEY2	79	F0	SDWANXT2	7C	
SDWAIDNT	C8		SDWAKM	174		SDWAOFLN	D9	80
SDWAILA	C	C0	SDWALCL	EA	02	SDWAOPTM	FF	04
SDWAILCH	FF	40	SDWALCPU	FA		SDWAPARM	0	
SDWAILC1	71		SDWALDIS	E9	02	SDWAPARQ	FC	
SDWAILC2	81		SDWALEN	F0	0298	SDWAPCHK	E8	40
SDWAILLW	108		SDWALKWA	100		SDWAPDAT	146	
SDWAILP	14	C0	SDWALKWS	100		SDWAPEND	8	
SDWAIL1	71	06	SDWALNTH	C9		SDWAPERC	EA	10
SDWAIL2	81	06	SDWALSQA	144	20	SDWAPER1	68	40
SDWAIMC1	73	40	SDWAMABD	EB	08	SDWAPER2	78	40
SDWAIMC2	83	40	SDWAMCH	CC		SDWAPGFX	D9	02
SDWAINC1	72		SDWAMCHD	D5		SDWAPGIO	E8	01
SDWAINC2	82		SDWAMCHI	D4		SDWAPGM1	69	01
SDWAINSF	D5	04	SDWAMCHK	E8	80	SDWAPGM2	79	01
SDWAINTA	A		SDWAMCHS	D4		SDWAPLEN	F0	08
SDWAINTC	D9	40	SDWAMCIV	EB	02	SDWAPMKA	C	
SDWAINTP	12		SDWAMCKA	9	04	SDWAPMKP	14	
SDWAINT1	6A		SDWAMCKP	11	04	SDWAPRIM	17A	
SDWAINT2	7A		SDWAMCK1	69	04	SDWAPSTI	FC	10
SDWAINVP	D4	10	SDWAMCK2	79	04	SDWAPSHU	D5	20
SDWAI0	145	80	SDWAMDAT	1C		SDWAPTRS	0	
SDWAI0A	8	FE	SDWAMLEN	F0	02E0	SDWAQQS	144	02
SDWAI0BR	64		SDWAMLVL	1C		SDWARA	190	

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SDWARBAD	58		SDWASKIP	EA	04	SDWAS1	6A	80
SDWARCDE	FC		SDWASKYF	D5	80	SDWAS2	7A	80
SDWARCDF	D4	40	SDWASLEN	F0	03F0	SDWATADB	FF	08
SDWARCRD	FD	80	SDWASLST	141	02	SDWATALW	11C	
SDWARC1	0		SDWASNPA	140		SDWATDLW	118	
SDWARECA	F4		SDWASPER	D9	20	SDWATDNB	FF	10
SDWARECP	124		SDWASPID	C8		SDWATERR	D5	01
SDWAREGU	D5	40	SDWASPIN	FD	20	SDWATEXC	E8	02
SDWAREND	F0		SDWASPVA	9	01	SDWATIME	E0	
SDWAREQ	4	80	SDWASPVP	11	01	SDWATJPA	146	08
SDWARERR	FD	10	SDWASQA	144	40	SDWATLEN	F0	03D0
SDWARETY	FC	04	SDWASRBM	E9	01	SDWATLPA	146	10
SDWAREXN	134		SDWASRSV	88		SDWATNCB	FF	20
SDWARFSA	DC		SDWASRVL	D4	80	SDWATNLW	114	
SDWARKEY	E8	20	SDWASRVP	4		SDWAT01	14C	
SDWARLEN	F0	F0	SDWASR00	88		SDWAT02	154	
SDWARPIV	EB	04	SDWASR01	8C		SDWAT03	15C	
SDWARRL	30		SDWASR02	90		SDWAT04	164	
SDWARRSV	293		SDWASR03	94		SDWATRAN	74	
SDWARSRC	D4	08	SDWASR04	98		SDWATRM1	68	04
SDWARSRF	D4	04	SDWASR05	9C		SDWATRM2	78	04
SDWARSR1	D8		SDWASR06	A0		SDWATRN2	84	
SDWARSR2	D9		SDWASR07	A4		SDWATSVL	D4	20
SDWARTYA	F0		SDWASR08	A8		SDWATYP1	E9	08
SDWASALL	FE	04	SDWASR09	AC		SDWAUPRG	FD	08
SDWASC	5		SDWASR10	B0		SDWAURAL	193	
SDWASCK	D5	10	SDWASR11	B4		SDWAUSPL	146	02
SDWASCKB	CC		SDWASR12	B8		SDWAVEQR	D9	01
SDWASCKE	D0		SDWASR13	BC		SDWAVERF	16C	
SDWASCND	176		SDWASR14	C0		SDWAVERI	16C	
SDWASDAT	144		SDWASR15	C4		SDWAVID	16E	
SDWASDA0	144		SDWASTAE	EB	20	SDWAVRA	194	
SDWASDA1	145		SDWASTAF	EA	80	SDWAVRAL	190	
SDWASEND	40		SDWASTAI	EA	40	SDWAVRAM	192	20
SDWASEQ#	122		SDWASTCC	4	10	SDWAVS3	16E	01
SDWASERP	FD	02	SDWASTCK	CC		SDWAWATA	9	02
SDWASERV	0		SDWASTEP	4	40	SDWAWATP	11	02
SDWASGA	C	01	SDWASTRM	E8	01	SDWAWAT1	69	02
SDWASGN1	6A	01	SDWASVCD	E8	10	SDWAWAT2	79	02
SDWASGN2	7A	01	SDWASVCE	E8	04	SDWAXM	174	
SDWASGP	14	01	SDWASWA	144	10	SDWAXPAD	170	

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SGTE

Common Name : RSM Segment Table Entry
 Macro ID : IHASGTE
 DSECT Name : SGTSTE
 Created by : IEAVITAS (RSM supervisor)
 Subpool and Key : 255 and key 0
 Size : 4 bytes
 Pointed to by : None
 Serialization : SALLOC lock
 Function : Contains real address of page table origin.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SGTE	, STEPTR
0	(0) STRUCTURE	0	SGTSTE	, STEPTR
0	(0) BITSTRING 1111 1111	1	SGTLK SGTPTL SGTKEY	LENGTH AND KEY BYTE "X'F0'" - PAGE TABLE LENGTH "X'0F'" - SEGMENT PROTECTION KEY
1	(1) ADDRESS	3	SGTPTO	FIRST 21 BITS CONCATENATED WITH THREE ZEROS ON THE LOW ORDER END FORM A 24 BIT REAL ADDRESS OF THE PAGE TABLE ORIGIN
1	(1) BITSTRING	2	SGTORG	FIRST 16 BITS OF THE ADDRESS OF THE PAGE TABLE ORIGIN
3	(3) BITSTRING.... .1..	1	SGTBYTE SGTREAD	NEXT 5 BITS OF ADDRESS AND FLAG BITS "X'04'" - WHEN 1, THIS SEGMENT IS READ-ONLY AND ANY ATTEMPT TO WRITE INTO THE SEGMENT WILL RESULT IN A PROTECTION EXCEPTION
	.... ..1.		SGTCB	"X'02'" - WHEN 1, THIS SEGMENT IS PART OF THE COMMON AREA
	.... ...1		SGTPAM	"X'01'" - PAGE TABLE AVAILABILITY FLAG WHEN 1 = SEGMENT IS INVALID
4	(4) CHARACTER1..	1	SGTEND SGTLEN	END OF SEGMENT TABLE ENTRY "SGTEND-SGTSTE" - LENGTH OF SEGMENT TABLE ENTRY

SGTE

SGTE

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SIOT

Common Name : Step Input/Output Table
 Macro ID : IEFASIOT
 DSECT Name : INDMSIOT
 Created by : IEFVDA
 Subpool and Key : 236 or 237 and key 1
 Size : 174 bytes
 Pointed to by : SCTFSIOT field of the SCT data area
 SCTPSIOT field of the SIOT data area
 Serialization : None
 Function : Contains information per data definition card.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) FLOATING	8	INDMSIOT	"*" STEP I-O TABLE
0	(0) CHARACTER	3	SIOTDSKA	DISK ADDRESS OF SIOT
3	(3) CHARACTER.... ..11.... .111	1	SIOTTYPE SIOTID DSNID	TABLE ID OF SIOT =3 "3" "7"
4	(4) CHARACTER	8	SCTDDNAM	THE DDNAME FROM THE DD CARD
12	(C) CHARACTER	8	SIOTDEST	USER ID ENABLING SYSOUT TO BE ROUTED VIA JCL
20	(14) CHARACTER ...1 .1..	2	SCTUSADD SIOTUNAF	INTERNAL NUMBER OF THE DD STATEMENT FOT WHICH UNIT AFFINITY IS SPECIFIED IN THIS DD STATEMENT "SCTUSADD"
22	(16) CHARACTER	2	SIODSNTE	OFFSET INTO DSNT FOR DCB REFERENCE TO A DATA SET
24	(18) CHARACTER	2	SIOTVLSP	VOL SEP DD NO.
26	(1A) CHARACTER	2	SIOTAFID	AFFINITY ASSOCIATION ID WITH MULTI-UNIT/GENERIC REQUEST

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
28	(1C) CHARACTER	4	SCTPSIOT	DISK ADDR OF NEXT SIOT IN CHAIN
32	(20) CHARACTER	4	SCTPJFCB	DISK ADDRESS OF JFCB
36	(24) CHARACTER	3	SIOTVRSB	DISK ADDRESS OF SIOT FOR VOLREF OR SUB-ALLOCATE
39	(27) CHARACTER	1	SIOTOTUN	TOTAL NUMBER OF UNITS USED FOR THIS SIOT
40	(28) CHARACTER	2	SIOTREFN	DD NUMBER OF INTRA STEP
42	(2A) CHARACTER	1	SIOPSCNT	PUBLIC STORAGE COUNT VOL REF
43	(2B) CHARACTER	1	SIOTBYT1	MVM INDICATORS
	1... ..		SIOTOCKP	"128" BIT-0 DATA SET OPEN AT LAST CHECK-POINT
	.1... ..		SIOTHOLD	"64" BIT-1 SYSOUT DATA SET TO BE PLACED ON HOLD QUEUE.
	..1.		SIOVAMDS	"32" BIT-2 VIO DATA SET
	...1		SIODUNAL	"16" BIT-3 DATA SET HAS BEEN DYNAMICALLY UNALLOCATED
	.... 1...		SIOTDADR	"8" BIT-4 DADSM IS REQUIRED
	.... .1..		SIODADSM	"4" BIT-5 DADSM WAS SUCCESSFUL
	.... ..1.		SIOTALCD	"2" BIT-6 THIS SIOT IS COMPLETELY ALLOCATED
	.... ...1		SIOTDDNT	"1" BIT-7 IN TSO, COMM'D PROCESSOR MUST PUT DDNAME IN DDNT
44	(2C) CHARACTER	2	SCTDDINO	INTERNAL NUMBER OF THE DD STATEMENT
46	(2E) CHARACTER	1	SIOTBYT3	ALLOCATION INDICATOR BYTE
	1... ..		SIOALIAS	"128" ALIAS EXISTS FOR THIS DS
	.1... ..		SIOCDEVT	"64" DEVICE TYPE FOR THIS DS OBTAINED FROM CATALOG
	..1.		SIOTJES3	"32" DEVICES FOR THIS ALLOCATION SELECTED BY JES3
	...1		S3400OFF	"16" INITIALIZE S3400DSP TO OFF
	.... 1...		SIOTDSID	"8" ON FOR DSID KEYWORD
	.... .1..		SIOTMSS	"4" ALL UNITS ELIGIBLE TO THIS REQUEST ARE MSS DEVICES
	.... ..1.		SIOTMXD	"2" UNITS ELIGIBLE ARE A MIX OF MSS AND NON-MSS DEVICES BIT 7 NOT USED
47	(2F) CHARACTER	1	SIOTTSTC	INDICATORS FOR TIME SHARING AND TCAM 20001

SIOT

SIOT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1... ..			SIOTINFC	"128" SIOT INF CODE INDIC
.1... ..			SIOTTERM	"64" BIT 1 TSO TERMINAL BIT DD TERM=TS PARAM. 20001 SET BY IEFVDA 20001 BIT 2 NOT USED
...1			SIOTSSGP	"16" GROUP SUBSYSTEM REQUEST(SUBSYS)
.... 1...			SIOTSSMG	"8" SUBSYSTEM ERROR MESSAGE INDICATOR
.... .1..			SIOTTRKM	"4" XB609 SETS FOR AB427 WHEN DYNAMIC
.... ..1.			SIOTDSNM	"2" SYSOUT DSDR FOUND ON CHECKPOINT DS
....1			SIOTQNAM	"1" BIT 7 FOR TCAM USE =1 IF QNAME= ON DD STATE.20002 SET BY IEFVDA,TESTED BY ALLOCATION 20002
48	(30) CHARACTER	1	SCTSPool	INTERNAL NO. OF POOL DD
49	(31) CHARACTER	1	SCTVOLCT	NUMBER OF VOLUMES FOR THIS DATASET
50	(32) CHARACTER	2	SIOTGIID	GROUP INTERSECTION ID FOR GENERIC ALLO- CATION
52	(34) CHARACTER	1	SIOTBYTO	FOR EXTENDED ALLOC
1... ..			SIOTSSDS	"128" DATA SET WILL BE PROCESSED BY A SUBSYSTEM
.1... ..			SIOTDYAL	"64" DATA SET DYNAMICALLY ALLOCATED
..1.			SIOTFUDD	"32" A MIXED DEVICE TYPE SPECIFIED AFF OR DEFER
...1			SPVTAMSG	"16" PVT ASSUMED MESSAGE REQUIRED
.... 1...			SIOTGIGN	"8" IGNORE PROCESSING SIOT FOR THIS GENERIC
.... .1..			SIOTNOVP	"4" USE ATTRIBUTE OF UCB HAS BEEN MADE PRIVATE
.... ..1.			SIOTPUVP	"2" USE ATT. OF UCB CHANGED FROM PUB TO PRIVATE
....1			SIOTRTRY	"1" THIS DATA SET REQUIRES RETRY IN ALLOCATION
53	(35) CHARACTER	1	SCTNMBUT	THE NUMBER OF UNITS FOR THE DATA SET
54	(36) CHARACTER	1	SIOTVLCT	VALUE OF SPECIFIED VOL COUNT(= JFCBVLCT)
55	(37) CHARACTER	1	SCTSDISP	SCHEDULER DISPOSITION OF THE DATA SET (AT END OF STEP OR JOB)
1... ..			SIOTRETN	"128" RETAIN BIT
.1... ..			S3400DSP	"64" FOR DISP. PROCESSING OF DS ON ASPEN DEVICE
..1.			PRIVATE	"32" BIT 2 PRIVATE VOLUME

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OFFSETS TYPE LENGTH NAME DESCRIPTION

PASS	EQU	16		BIT 3 - PASS THE DATA SET
KEEP	EQU	8		BIT 4 - KEEP THE DATA SET
DELETE	EQU	4		BIT 5 - DELETE DATA SET
CATLG	EQU	2		BIT 6 - CATALOG THE DATA
SET				
UNCATLG	EQU	1		BIT 7 - UNCATALOG THE
DATA SET				

56	(38) CHARACTER	1	SCTSBYT1	INDICATOR BYTE NUMBER 1
	1... ..		SCTDUMMY	"128" BIT 0 DUMMY DATA SET
	.1... ..		SCTSYSIN	"64" BIT 1 SYSIN DATA SET
	..1.		SIOTCCAT	"32" BLANK DD NAME CONCATENATION
	...1		SIOTGDSN	"16" GENERATED DATA SET NAME
	.... 1...		SIOTQDSN	"8" QUALIFIED DATA SET IS SPECIFIED

PARALLEL MOUNT INDICATOR - BIT 5

	.... ..1.		SCTUNAFF	"2" BIT 6 UNIT AFFINITY
	.... ...1		SIOTJSCT	"1" SIOT IS ASSOCIATED WITH A JOBCAT OR STEPCAT
57	(39) CHARACTER	1	SCTSBYT2	INDICATOR BYTE NUMBER 2
	1... ..		SIOTCLUNL	"128" CLOSE SHOULD DYNAMICALLY UNALLO- CATE THIS DS
	.1... ..		SIOTCATL	"64" BIT 1- DATA SET IS A CATALOG
	..1.		SCTVOLAF	"32" BIT 2 VOLUME AFFINITY
	...1		SCTJOB�B	"16" BIT 3 JOBLIB DD STMT
	.... 1...		SCTUNLBD	"8" BIT 4 UNLABELED
	.... .1..		SCTLABEL	"4" BIT 5 NONSTANDARD LABEL
	.... ..1.		SCTDEFER	"2" BIT 6 DEFER MOUNTING
	.... ...1		SCTRECVD	"1" BIT 7 RECEIVED DATA SET
58	(3A) CHARACTER	1	SCTSBYT3	INDICATOR BYTE NUMBER 3
	1... ..		SCTDSNRF	"128" BIT 0 VOLUME REFERENCE DSNAME PRE- SENT
	.1... ..		SCTSYSNE	"64" BIT 1 SYSIN EXPECTED (PROCEDURES

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION																				
				ONLY) 19874																				
	..1.	SCTALCHK	"32" THIS SIOT ALLOCATED AT LAST CHECK-POINT																				
	...1	SCTVREF	"16" BIT-3 VOLUME REFERENCE IN STEP																				
<table> <tr> <td>SYSOUT</td> <td>EQU</td> <td>8</td> <td>BIT 4 SYSOUT SPECIFIED</td> <td>AAAA</td> </tr> <tr> <td>NEW</td> <td>EQU</td> <td>4</td> <td></td> <td>BIT 5 - NEW DATA SET</td> </tr> <tr> <td>MOD</td> <td>EQU</td> <td>2</td> <td></td> <td>BIT 6 - MODIFIED DATA SET</td> </tr> <tr> <td>OLD</td> <td>EQU</td> <td>1</td> <td></td> <td>BIT 7 - OLD DATA SET</td> </tr> </table>					SYSOUT	EQU	8	BIT 4 SYSOUT SPECIFIED	AAAA	NEW	EQU	4		BIT 5 - NEW DATA SET	MOD	EQU	2		BIT 6 - MODIFIED DATA SET	OLD	EQU	1		BIT 7 - OLD DATA SET
SYSOUT	EQU	8	BIT 4 SYSOUT SPECIFIED	AAAA																				
NEW	EQU	4		BIT 5 - NEW DATA SET																				
MOD	EQU	2		BIT 6 - MODIFIED DATA SET																				
OLD	EQU	1		BIT 7 - OLD DATA SET																				
59	(3B) CHARACTER	1	SCTSBYT4	INDICATOR BYTE 4																				
	1... ..		SCTSGDGS	"128" BIT 0 SET BY R/O TO INDICATE GDG SINGLE																				
	.1.. ..		SIOTGDGA	"64" BIT 1 THIS IS A GENERATED SIOT																				
	..1.		SIOTAFF	"32" BIT 2 SIOT AFFINITY INDICATOR																				
	...1		SIOTASCI	"16" BIT 3 USASCII TAPE LABEL. 19200 SET BY IEFVDA, TESTED BY IEFWA000 19200																				
 1...		SIOTSTEP	"8" BIT 4 STEP PROCESSED																				
1..		SIOTVAFF	"4" BIT 5 INTRA-STEP VOLUME AFFINITY																				
1.		SIOTIPDI	"2" BIT 6 DATA SET IS IN PDI																				
1		SIOTOMN	"1" BIT 7 1 = OLD OR MODIFIED DATA SET 0 = NEW DATA SET 19874																				
60	(3C) CHARACTER	8	SCTUTYPE	UNIT TYPE																				
60	(3C) CHARACTER	4	SIOTDEVT	DEVICE TYPE																				
60	(3C) CHARACTER	1	SIIOBYT1																					
61	(3D) CHARACTER	1	SIIOBYT2																					
62	(3E) CHARACTER	1	SIIOBYT3	DEVICE CLASS																				
	1... ..		SI03TAPE	"128" BIT 0 TAPE DEVICE																				
	.1.. ..		SI03COMM	"64" BIT 1 COMMUNICATIONS DEVICE																				
	..1.		SI03DACC	"32" BIT 2 DIRECT ACCESS DEVICE																				
	...1		SI03DISP	"16" BIT 3 GRAPHICS DEVICE																				
 1...		SI03UREC	"8" BIT 4 UNIT RECORD DEVICE																				
63	(3F) CHARACTER	1	SIIOBYT4																					
64	(40) CHARACTER	1	SIUUCNVT	IF = X'FF' SIUUCBAD IS AN SVA IF = X'00'																				

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
65	(41) CHARACTER	3	SIUCBAD	UNITNAME CONVERSION HAS BEEN DONE UCB ADDRESS OR SVA
68	(44) CHARACTER	8	SCTOUTNM	THE SYSTEM OUTPUT PROGRAM NAME
76	(4C) CHARACTER	4	SCTOUTNO	THE FORM NUMBER OF THE CARD OR PAPER STOCK TO BE USED WHEN THIS DATA SET IS PUNCHED OR PRINTED
80	(50) CHARACTER	1	SCTOUTPN	THE SYSTEM OUTPUT CLASS NAME
81	(51) CHARACTER	1	SIOTBYT4	
	1... ..		SIOTPROT	"128" PROTECT SPECIFIED ON DD
	.1..		SIOTRACD	"64" PROTECT OK IF ALLOC TO DASD
	..1.		SIOTRACT	"32" PROTECT OK IF ALLOC TO TAPE
82	(52) CHARACTER	1	SIOTEDLG	SUBPOOL NUMBER FOR EDL
83	(53) CHARACTER	1		RESERVED
84	(54) CHARACTER	4	SIOTSWB	SCHEDULER WORK BLOCK(SWB) STRUCTURE POINTER
88	(58) CHARACTER	4	SIOTNDSB	TTR OF NEXT DSB ALSO APPLI- CABLE ONLY IF SYSOUT BIT IS SET
92	(5C) CHARACTER	1	SIOTALTD	CONDITIONAL DISPOSITION BITS 0-1 RESERVED
	..1.		SIOJCATS	"32" BIT 2 JOB CAT SWITCH USED ONLY BY INTERPRETER WHEN READING IN COPIES OF CONCATENATED JOBCAT SIOTS

SIOTNPRV EQU 16	BIT 3 THIS BIT IS SET AT RESTART TIME TO AACA
INDICATE THAT THIS DD IS NON-PRIVATE AACA	
EVEN THOUGH IT MAY NOW APPEAR TO BE PRIVATE AACA	
KEEP EQU 8	BIT 4 - KEEP DATA SET IF ABEND
DELETE EQU 4	BIT 5 - DELETE DATA SET IF ABEND
CATLG EQU 2	BIT 6 - CATALOG DATA SET IF
ABNORMAL TERMINATION	
UNCATLG EQU 1	BIT 7 - UNCATALOG DATA SET IF
ABNORMAL TERMINATION	

SIOT

SIOT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
93	(5D) CHARACTER	3	SIOTSSWA	SVA OF SSWA
96	(60) CHARACTER	1	SIOTOUTC	NUMBER OF SYSOUT COPIES TO BE PRINTED
97	(61) CHARACTER	1	SIOTBYT5	INDICATORS
	1... ..		SIOTDEFC	"128" BIT 0 INDICATE DEFAULT COPIES WAS SET
	.1.. ..		SIOTDCLA	"64" BIT 1 INDICATE DEFAULT SYSOUT WAS SET
98	(62) CHARACTER	1		RESERVED
99	(63) CHARACTER	4	SIOTOPUC	RESERVED 21774
103	(67) CHARACTER	1	SIOTBYT2	MVM INDICATOR BYTE
	1... ..		SIOTDMND	"128" INDICATES SPECIFIC UNIT REQ MADE
	.1.. ..		SIOTDSPD	"64" DISP FOR THIS DATA SET HAS BEEN PROCESSED
	..1.		SIOTGALL	"32" SIOT IS PART OF GDG ALL REQUEST
	...1		SIOTCALC	"16" DATA SET CATLGD WHEN ALLOC'D
	.... 1...		SIOTCNEW	"8" ORIG ALLOC'D STAT OF NEW CONVRTD
	.... .1..		SIOTCVOL	"4" SIOT REPRESENTS AN OS CVOL

EQU	2	RESERVED
EQU	1	RESERVED

104	(68) CHARACTER	4	SIOTSSNM	SUBSYSTEM NAME WHICH WILL PROCESS THIS D.S.
108	(6C) CHARACTER	12		RESERVED
120	(78) CHARACTER	2	SIOTSSIC	SIOT INFORMATION REASON CODE
122	(7A) CHARACTER	8	SCTANAME	&NAME FROM DSNAME=,DEDIC. AACAWORK FILES AACAWORK
130	(82) CHARACTER	2	SIOTRSNC	ERROR CODE
132	(84) CHARACTER	4	SIOTEDLS	SIZE OF EDL
136	(88) CHARACTER	4	SIOTEDLP	EDL POINTER
140	(8C) CHARACTER	4	SVOLUNAD	VOLUNIT TABLE ENTRIES

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
144	(90) CHARACTER	4	SIOTPSVA	SVA OF PASSING SIOT
148	(94) CHARACTER	4	SIOTETIO	ETIOT ENTRY
152	(98) CHARACTER	4	SIOTNPTR	VIRTUAL ADDRESS OF NEXT SIOT
156	(9C) CHARACTER	4	SJFCBPTR	VIRTUAL ADDRESS OF JFCB
160	(A0) CHARACTER	4	SIOTJFX	VIRTUAL ADDRESS OF JFCBX
164	(A4) CHARACTER	4	SIOTVMVP	VOLUME MNT AND VERIFY REQUEST
168	(A8) CHARACTER	2	SVOLUNNO	COUNT OF VOLUNIT ENTRIES
170	(AA) CHARACTER	2	SIOVDSNT	OFFSET INTO DSNT FOR VOL REF TO A DATA SET NAME
172	(AC) CHARACTER	1	SIOVDSNL	LENGTH OF DATA SET NAME OF VOL REF TO A DATA SET ANME
173	(AD) CHARACTER	1	SIODDSNL	LENGTH OF DATA SET NAME OF DCB REF TO A DATA SET NAME
174	(AE) CHARACTER 1.1. 111.	6	SIOTLGTH	TO MAKE 180(SIOT) "174" LENGTH OF SIOT
180	(B4) CHARACTER ...1 11..	4	JFCBID	HDR(INTERPRETER ONLY) "28"

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
DSNID	3	07	SIODDSNL	AD		SIOTGDSN	38	10
INDMSIOT	0	00	SIODSNTE	16		SIOTGIGN	34	08
JFCBID	B4	1C	SIODUNAL	2B	10	SIOTGIID	32	
PRIVATE	37	20	SIIOCATS	5C	20	SIOTHOLD	2B	40
SCTALCHK	3A	20	SIOPSCNT	2A		SIOTID	3	03
SCTANAME	7A		SIOTAFF	3B	20	SIOTINFC	2F	80
SCTDDINO	2C		SIOTAFID	1A		SIOTIPDI	3B	02
SCTDDNAM	4		SIOTALCD	2B	02	SIOTJES3	2E	20
SCTDEFER	39	02	SIOTALTD	5C		SIOTJFX	A0	
SCTDSNRF	3A	80	SIOTASCI	3B	10	SIOTJSCT	38	01
SCTDUMMY	38	80	SIOTBYT0	34		SIOTLGTH	AE	AE
SCTJOBLB	39	10	SIOTBYT1	2B		SIOTMSS	2E	04
SCTLABEL	39	04	SIOTBYT2	67		SIOTMXD	2E	02
SCTNMBUT	35		SIOTBYT3	2E		SIOTNDSB	58	
SCTOUTNM	44		SIOTBYT4	51		SIOTNOPV	34	04
SCTOUTNO	4C		SIOTBYT5	61		SIOTNPTR	98	
SCTOUTPN	50		SIOTCALC	67	10	SIOTOCKP	2B	80
SCTPJFCB	20		SIOTCATL	39	40	SIOTOMN	3B	01
SCTPSIOT	1C		SIOTCCAT	38	20	SIOTOPUC	63	
SCTRECVD	39	01	SIOTCNEW	67	08	SIOTOTUN	27	
SCTSBYT1	38		SIOTCVOL	67	04	SIOTOUTC	60	
SCTSBYT2	39		SIOTDADR	2B	08	SIOTPROT	51	80
SCTSBYT3	3A		SIOTDCLA	61	40	SIOTPSVA	90	
SCTSBYT4	3B		SIOTDDNT	2B	01	SIOTPUPV	34	02
SCTSDISP	37		SIOTDEFC	61	80	SIOTQDSN	38	08
SCTSGDGS	3B	80	SIOTDEST	C		SIOTQNAM	2F	01
SCTSPool	30		SIOTDEVT	3C		SIOTRACD	51	40
SCTSYSIN	38	40	SIOTDMND	67	80	SIOTTRACT	51	20
SCTSYSNE	3A	40	SIOTDSID	2E	08	SIOTREFN	28	
SCTUNAFF	38	02	SIOTDSKA	0		SIOTRETN	37	80
SCTUNLBD	39	08	SIOTDSNM	2F	02	SIOTRSNC	82	
SCTUSADD	14		SIOTDSPD	67	40	SIOTRTRY	34	01
SCTUTYPE	3C		SIOTDYAL	34	40	SIOTSSDS	34	80
SCTVOLAF	39	20	SIOTEDLG	52		SIOTSSGP	2F	10
SCTVOLCT	31		SIOTEDLP	88		SIOTSSIC	78	
SCTVREF	3A	10	SIOTEDLS	84		SIOTSSMG	2F	08
SIOALIAS	2E	80	SIOTETIO	94		SIOTSSNM	68	
SIOCDEVT	2E	40	SIOTFUDA	34	20	SIOTSSWA	5D	
SIOCLUNL	39	80	SIOTGALL	67	20	SIOTSTEP	3B	08
SIODADSM	2B	04	SIOTGDGA	3B	40	SIOTSWB	54	

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SIOTTERM	2F	40	SIOUBYT1	3C		SI03DACC	3E	20
SIOTTRKM	2F	04	SIOUBYT2	3D		SI03DISP	3E	10
SIOTTSTC	2F		SIOUBYT3	3E		SI03TAPE	3E	80
SIOTTYPE	3		SIOUBYT4	3F		SI03UREC	3E	08
SIOTUNAF	14	14	SIOUCBAD	41		SJFCBPTR	9C	
SIOTVAFF	3B	04	SIOUCNVT	40		SPVTAMSG	34	10
SIOTVLCT	36		SIOVAMDS	2B	20	SVOLUNAD	8C	
SIOTVLSP	18		SIOVDSNL	AC		SVOLUNNO	A8	
SIOTVMVP	A4		SIOVDSNT	AA		S3400DSP	37	40
SIOTVRSB	24		SI03COMM	3E	40	S3400OFF	2E	10

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SMCA

Common Name : SMF (System Management Facilities) Control Area
 Macro ID : IEESMCA
 DSECT Name : SMCABASE
 Created by : IEEMB820
 Subpool and Key : 245 and key 0
 Size : 352 bytes
 Pointed to by : CVTSMCA field of the CVT data area
 Serialization : None
 Function : Contains information used by the System Management Facilities,
 SMF ECBs and other useful information. Provides an anchor for other SMF
 global control blocks.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	SMCABASE	
	1... ..		BIT0	"128"
	.1.. ..		BIT1	"64"
	..1.		BIT2	"32"
	...1		BIT3	"16"
	.... 1...		BIT4	"8"
	.... .1..		BIT5	"4"
	.... ..1.		BIT6	"2"
	.... ...1		BIT7	"1"
0	(0) BITSTRING	1	SMCAOPT	SMFDEFLT OPTIONS SELECTED AT INITIALIZA- TION TIME. THE OPTIONS APPLY TO BACK- GROUND PROCESSING. SMCAFOPT (OFFSET 82) CONTAINS THE FOREGROUND OPTIONS.
	1... ..		SMCAOPT1	"BIT0"- RESERVED
	.1.. ..		SMCAOPT2	"BIT1"- RESERVED
	..1.		SMCAEXT	"BIT2"- RESERVED
	...1		SMCADSA	"BIT3"- DATA SET ACCOUNTING
	.... 1...		SMCAVOL	"BIT4"- VOLUME ACCOUNTING
	.... .1..		SMCARS01	"BIT5,,C'X'"- RESERVED
	.... ..1.		SMCATDS	"BIT6"- TYPE 17 RECORDS MAINTAINED FOR TEMPORARY DATA SETS (REC(PERM) OR

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... .1		SMCAFGND	REC(CALL)) "BIT7"- SMF FOREGROUND OPTIONS BIT. IF 0, ABOVE BITS DESCRIBE BACKGROUND OPTIONS. IF 1, ABOVE BITS DESCRIBE FOREGROUND OPTIONS. 20011
1	(1) BITSTRING 1... .. .1... ..	1	SMCAMISC SMCAUSER SMCAMAN	MISCELLANEOUS INDICATORS "BIT0"- SMF RECORDING REQUESTED "BIT1"- SYS1.MAN DATA SET IS/IS NOT PRESENT BITS 0 AND 1 MEAN 00 NO SMF RECORDING REQUESTED (MAN=NONE) 01 ONLY USER RECORDS TO BE RECORDED (MAN=USER) 10 INVALID COMBINATION 11 SMF AND USER RECORDING REQUESTED (MAN=ALL)
	..1. .... ...1 1...		SMCAOPI SMCAFIRT SMCAPSDP	"BIT2" RESERVED "BIT3"- SMF DATA SET TO BE OPENED "BIT4"- PSEUDO-DUMP SWITCH (DEVICE SWITCHING ONLY)
	.... .1.. .... ..1.		SMCADBSY SMCABSW	"BIT5"- DUMP IS BUSY (SMF WRITER) "BIT6"- BUFFER SWITCH. IF 0, LEFT HALF OF BUFFER IN USE. IF 1, RIGHT HALF OF BUFFER IN USE.
2	.... .1 (2) SIGNED	2	SMCADUMP SMCATOFF	"BIT7"- DUMP BUSY OFFSET OF THE FIRST SMF TIOT ENTRY FROM THE BEGINNING OF THE MASTER SCHEDULER TIOT
4	(4) CHARACTER	4	SMCASMCA	CONTROL BLOCK ID
THE FOLLOWING FIELDS ARE SET UP BY IPL INITIALIZATION				
8	(8) SIGNED	4	SMCAJW	JOB WAIT TIME LIMIT BIT 31 REPRESENTS 1.048576 SECONDS
12	(C) ADDRESS	4	SMCAS842	ADDRESS OF IEEMB842
16	(10) CHARACTER	4	SMCASID	SYSTEM IDENTIFICATION (SID)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
20	(14) ADDRESS	4	SMCABUFP	ADDRESS OF THE SMF BUFFER
24	(18) CHARACTER	8	SMCAMTD	MAXDORM TIME AND DATE
32	(20) ADDRESS	4	SMCAOPTB	ADDR OF SMFOPTAB
36	(24) ADDRESS	4	SMCADFLT	ADDR OF SMFDELFT
40	(28) SIGNED	4	SMCAARCT	# OF RECORDS AT LAST ABEND
44	(2C) SIGNED	4	SMCAABCT	# OF BUFFERS AT LAST ABEND
48	(30) SIGNED	4	SMCASRCT	# OF RECORDS AT LAST STATUS
52	(34) SIGNED	4	SMCASBCT	# OF BUFFERS AT LAST STATUS
56	(38) ADDRESS	4	SMCAPFBA	PAGE FIX BEGINNING ADDRESS
60	(3C) ADDRESS	4	SMCAPFEA	PAGE FIX END ADDRESS
64	(40) ADDRESS	4	SMCAECBA	PAGE FIX ECB ADDRESS
68	(44) SIGNED	2	SMCABR14	SMF RMTR (BR 14)
70	(46) CHARACTER	2		RESERVED

MISCELLANEOUS POINTERS AND COMMUNICATION AREAS

72	(48) SIGNED	4	SMCAWAIT(2)	THE ACCUMULATED WAIT TIME, EXPRESSED IN 26 USEC TIMER UNITS. FIRST WORD IS OVERFLOW FROM SECOND WORD.
80	(50) CHARACTER	2	SMCAENTY	THESE SWITCHES GOVERN ENTRY CONDITIONS FOR DEVICE SWITCHING/ALLOCATION/ OPENING ROUTINES
80	(50) BITSTRING	1	SMCAENDI	A COMMUNICATION FIELD
	1... ..		SMCARS14	"BIT0,,C'X'"- RESERVED
	.1... ..		SMCARS15	"BIT1,,C'X'"- RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1.			SMCARS16	"BIT2,,C'X'"- RESERVED
...1			SMCARS17	"BIT3,,C'X'"- RESERVED
.... 1...			SMCARS18	"BIT4,,C'X'"- RESERVED
.... .1..			SMCARS19	"BIT5,,C'X'"- RESERVED
.... ..1.			SMCARS20	"BIT6,,C'X'"- RESERVED
....1			SMCADSNF	"BIT7"- IF ZERO, DATA SET (X OR Y) WAS FOUND. IF ONE, DATA SET (X OR Y) WAS NOT FOUND.
81	(51) CHARACTER	1	SMCAENOP	ENTRY CODE THAT INDICATES WHICH LOAD OF SVC 83 HAS PASSED CONTROL TO CURRENT LOAD
82	(52) BITSTRING	1	SMCAFOPT	SMF FOREGROUND OPTIONS. BIT SETTINGS ARE SAME AS SMCAOPT. 20011
83	(53) HEX	1	SMCAENAL	RESERVED
84	(54) SIGNED	4	SMCAWRTP	AN OPTIMUM BUFFER LOAD DISPLACEMENT FIGURE. WHEN THE BUFFER IS LOADED TO OR BEYOND THIS POINT, IT WILL BE WRITTEN TO THE SMF DATA SET.
88	(58) SIGNED	4	SMCAOARY	POINTER TO OLD RDS ARRAY
92	(5C) SIGNED	4	SMCANARY	POINTER TO NEW RDS ARRAY
96	(60) SIGNED	4	SMCASUBP	POINTER TO SUBPARM CHAIN
100	(64) SIGNED	4	SMCABFMF	MAXIMUM NUMBER OF FULL BUFFERS
104	(68) SIGNED	4	SMCANMSU	NUMBER OF TIMES CALLER SUSPENDED TO WAIT FOR BUFFERS
108	(6C) CHARACTER	8	SMCADSTM	START TIME AND DATE AT WHICH NO DATA SET WAS AVAILABLE TO RECORD ON. APPEARS IN PACKED DECIMAL IN THE FORM 00YYDDDF WHERE 00 = ZEROS, YY = LAST 2 DIGITS OF THE YEAR, DDD = DAY OF THE YEAR AND F IS A SIGN.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
116	(74) SIGNED	4	SMCADSCT	THE NUMBER OF SMF RECORDS THAT HAVE BEEN OMITTED FROM THE SMF DATA SET DUE TO THE UNAVAILABILITY OF A DATA SET TO RECORD ON
120	(78) ADDRESS	4	SMCAASCB	CURRENT TASK ASCB ADDRESS (OS/VS2)
120	(78) SIGNED	2	SMCAPOST	RESERVED (OS/VS1)
122	(7A) CHARACTER	2	SMCATJID	CURRENT TASK TJID (OS/VS1)
124	(7C) SIGNED	4	SMCAMACR	ENTRY POINT TO MACRO RTN
128	(80) ADDRESS	4	SMCASAVE	USER EXIT ADDRESS SAVE FIELD (OS/VS2)
132	(84) SIGNED	4	SMCATEXP	TIME OF MOST RECENT EXPIRATION OF A TEN-MINUTE TIMER QUEUE ELEMENT (TQE)
136	(88) SIGNED	4	SMCAPGIN	NUMBER OF PAGE-INS PERFORMED (OS/VS1)
136	(88) SIGNED	4	SMCADOMX	MANX DOM WTO ID (OS/VS2)
140	(8C) SIGNED	4	SMCAPGOT	NUMBER OF PAGE-OUTS PERFORMED (OS/VS1)
140	(8C) SIGNED	4	SMCADOMY	MANY DOM WTO ID (OS/VS2)
144	(90) CHARACTER	4	SMCASJWT	SAVE JWT AS ENTERED (HHMM)
148	(94) CHARACTER	4	SMCASMDM	SAVE MAXDORM AS ENTERED (MMSS)
152	(98) CHARACTER	6	SMCASSTS	SAVE STATUS AS ENTERED (HHMMSS)
158	(9E) CHARACTER	2		RESERVED
160	(A0) SIGNED	4	SMCARGNM	NUMBER OF REGIONS MIGRATED
164	(A4) SIGNED	4	SMCAPGM	NUMBER OF PAGES MIGRATED
168	(A8) ADDRESS	4	SMCAU83	RESERVED
168	(A8) ADDRESS	4	SMCALOCK	ADDRESS OF FIRST SSB ON SMCALOCK CHAIN

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
172	(AC) ADDRESS	4	SMCAWTCB	ADDRESS OF SMF WRITER'S TCB USED BY XMPOST ERROR PROCESSOR (IEEMB827) (OS/VS2)
176	(B0) ADDRESS	4	SMCASTCB	ADDRESS OF SMF SVC CURRENTLY WAITING FOR WRITER USED BY XMPOST ERROR PPROCESSOR (IEEMB827) (OS/VS2)
180	(B4) ADDRESS	4	SMCAACTP	ADDRESS OF THE ACT (USED BY PARSE AND INPUT MERGE
<p>THE NEXT TWO FIELDS ARE THE SUBJECT OF COMPARE DOUBLE AND SWAP LOGIC THAT CONTROLS THE SCHEDULING OF THE SRB. THEY MUST BE ON A DOUBLE WORD BOUNDARY. DO NOT MOVE.</p>				
184	(B8) FLOATING	8	SMCACDS	TARGET OF CDS TO CONTROL SRB SCHEDULE SCHEDULE
184	(B8) SIGNED	4	SMCANMFL	NUMBER OF FULL BUFFERS
188	(BC) ADDRESS	4	SMCASSB	POINTER TO SMF SUSPEND BLOCK
192	(C0) SIGNED	2	SMCAMNBF	MIN # OF BUFFERS
194	(C2) SIGNED	2	SMCAMXBF	MAX # OF BUFFERS
196	(C4) ADDRESS	4	SMCASTTT	ADDRESS OF STATUS TIMER ELEMENT
200	(C8) ADDRESS	4	SMCAMAXT	ADDRESS OF MAXDORM TIMER ELEMENT
204	(CC) ADDRESS	4	SMCADTB	ADDRESS OF DUMP TIMER ELEMENT
208	(D0) SIGNED	4	SMCABITF	FULL WORD OF BIT FLAGS ...
208	(D0) HEX	1	SMCAPRMT	REPLACES OPI BIT
	1... ..		SMCAIPLR	"X'80'"- PROMPT(IPLR) OR PROMPT(ALL)
	.1.. ..		SMCALIST	"X'40'"- PROMPT(LIST) OR PROMPT(ALL)
	..1.		SMCALDSN	"X'20'"- DISPLAY DATASET STATUS
	...1		SMCAMXDM	"X'10'"- MAXDORM SPECIFIED?

SMCA

100 MVS/370 Debug Hdbk Vol 5

SMCA

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
			SMCASTUS	"X'08'"- STATUS SPECIFIED?
			SMCARUN	"X'04'"- WRITER SRB RUNNING
			SMCASKD	"X'02'"- WRITER SRB HAS BEEN SCHEDULED
209	(D1) HEX	1	SMCAFLGS	WRITER STATUS FLAGS
			SMCAINIT	"X'80'"- WRITER TASK INITIALIZED
			SMCARTRY	"X'40'"- RETRY IN PROGRESS
			SMCADTLS	"X'20'"- DATA LOST NO SPACE ON RECORD
				DATASETS
			SMCASETP	"X'10'"- SET SMF IN PROCESS
			SMCADISP	"X'08'"- DISP SMF IN PROCESS
			SMCALL	"X'04'"- LOCK HELD WHEN DISP LOCK OBTAIN
			SMCALATE	"X'02'"- NEXT ELEMENT LONGER THAN 1 SEC
			SMCASETS	"X'01'"- SETSMF IN PROCESS
210	(D2) HEX	1	SMCAFLGR	RECOVERY FOOTPRINTS
			SMCATERM	"X'80'"- SMF TERMINATED
			SMCAPGFX	"X'40'"- PAGEFIX ISSUED
			SMCASRBF	"X'20'"- WRITER SRB ABENDED AND ISSUED
				SDUMP
			SMCAPSUS	"X'10'"- PREVENT SUSPEND PROCESSING WHI- LE HANDLING I/O ERROR
			SMCAU29	"X'08'"- IEFU29 EXIT CALLED
			SMCANOST	"X'04'"- NO MORE SETS ALLOWED
			SMCAPREV	"X'02'"- PREVIOUS ABEND IN EASI INTERVAL
			SMCANMRE	"X'01'"- NO MORE EASI INTERVAL PROC
211	(D3) HEX	1	SMCARCUR	RECOVERY RECURSION BITS
			SMCAMXDR	"X'80'"- PREVENT MAXDORM RECURSION
			SMCASTTR	"X'40'"- PREVENT STATUS RECURSION
			SMCASUSR	"X'20'"- PREVENT SUSPEND RECURSION
			SMCATIMR	"X'10'"- PREVENT TIMER RECURSON
			SMCASETR	"X'08'"- PREVENT SET RECURSION
			SMCASETC	"X'04'" FOOTPRINTS FOR SET RECOVERY
212	(D4) SIGNED	4	SMCAECB0	INITIALIZATION ECB BETWEEN MB822 AND MB829
216	(D8) ADDRESS	4	SMCASRB	ADDR OF SMF WTR SRB
220	(DC) SIGNED	4	SMCAECB1	MSG ECB
224	(E0) SIGNED	4	SMCAECB2	DUMP CHECK ECB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
228	(E4) SIGNED	4	SMCAECB3	END SWITCH ECB
232	(E8) SIGNED	4	SMCAECB4	SET ECB
236	(EC) CHARACTER	4		RESERVED
CONTROL AREA FOR RDS CHAIN - RECORDING DATASET BLOCKS				
240	(F0) CHARACTER	4	SMCARDSH	RDSH CHAIN HEADER ID
244	(F4) ADDRESS	4	SMCAFRDS	FIRST RDS
248	(F8) ADDRESS	4	SMCALRDS	LAST RDS
252	(FC) ADDRESS	4	SMCASVCR	CURRENT RDS FOR SVC 83 IEEMB830
256	(100) ADDRESS	4	SMCASRBR	CURRENT RDS FOR SRB IEEMB834
CONTROL AREA FOR BQE CHAIN - BUFFER QUEUE ELEMENTS				
260	(104) CHARACTER	4	SMCABQEH	BQEH CHAIN HEADER ID
264	(108) ADDRESS	4	SMCAFBQE	FIRST BQE
268	(10C) ADDRESS	4	SMCALBQE	LAST BQE
272	(110) ADDRESS	4	SMCACBQE	CURRENT BQE
276	(114) SIGNED	4	SMCABQGM	BQE GETMAIN PARM
276	(114) HEX	1	SMCABQSP	BQE SUBPOOL
277	(115) ADDRESS	3	SMCABQSZ	BQE SIZE
280	(118) SIGNED	4	SMCACNBF	CURRENT NUMBER OF BQES

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
284	(11C) SIGNED	4	SMCABFTM	TIME OF LAST BUFFER GETMAIN
288	(120) SIGNED	4	SMCABFLS	NUMBER OF RCDS LOST DUE TO BUFFER SHORT-AGE
292	(124) ADDRESS	4	SMCAAS1R	CHAIN OF RECORDS PRODUCED BY ADDRESS SPACE 1 THAT WOULD NOT FIT IN BUFFERS
296	(128) SIGNED	4	SMCABFWT	BUFFERS WRITTEN
300	(12C) SIGNED	4	SMCARCWT	RECORDS WRITTEN
VARIABLES FOR SMF TIMER MODULE - IEEMB839				
304	(130) ADDRESS	4	SMCATQE	ADDRESS OF TQE
308	(134) ADDRESS	4	SMCAENQE	ADDRESS OF ENQUE ENTRY POINT
312	(138) ADDRESS	4	SMCADEQE	ADDRESS OF DEQUE ENTRY POINT
316	(13C) ADDRESS	4	SMCANSRB	ADDRESS OF NEXT ELEMENT ON CHAIN
320	(140) CHARACTER	8	SMCAENDT	TIME WHEN DIE INVOKED PLUS 1 SEC
SELECTIVITY CONTROL AREA				
328	(148) ADDRESS	4	SMCASSTP	ADDRESS OF SMF SELECTIVITY TABLES
332	(14C) ADDRESS	4	SMCASYSP	ADDR OF THE SYSTEM (DEFAULT) SST
336	(150) CHARACTER	4	SMCAITME	IPL TIME (BINARY)
340	(154) CHARACTER	4	SMCAIDTE	IPL DATE (YYDDDF)

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
344	(158) ADDRESS	4	SMCASACT	ADDR OF THE NEW ACT FOR SET
348	(15C) SIGNED	2	SMCANSST	NUMBER OF SST ENTRIES
350	(15E) SIGNED	2	SMCALSST	LENGTH OF ONE SST ENTRY
			SMCAEND	"x"
			SMCASIZE	"SMCAEND-SMCABASE"- SIZE OF SMCA TABLE

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
BIT0	0	80	SMCADTLS	D1	20	SMCAMNBF	C0	
BIT1	0	40	SMCADUMP	1	01	SMCAMTD	18	
BIT2	0	20	SMCAECBA	40		SMCAMXBF	C2	
BIT3	0	10	SMCAECB0	D4		SMCAMXDM	D0	10
BIT4	0	08	SMCAECB1	DC		SMCAMXDR	D3	80
BIT5	0	04	SMCAECB2	E0		SMCANARY	5C	
BIT6	0	02	SMCAECB3	E4		SMCANMFL	B8	
BIT7	0	01	SMCAECB4	E8		SMCANMRE	D2	01
SMCAABCT	2C		SMCAENAL	53		SMCANMSU	68	
SMCAACTP	B4		SMCAEND	15E	0160	SMCANOST	D2	04
SMCAARCT	28		SMCAENDI	50		SMCANSRB	13C	
SMCAASCB	78		SMCAENDT	140		SMCANSST	15C	
SMCAAS1R	124		SMCAENOP	51		SMCAOARY	58	
SMCABASE	0		SMCAENQE	134		SMCAOPI	1	20
SMCABFLS	120		SMCAENTY	50		SMCAOPT	0	
SMCABFMF	64		SMCAEXT	0	20	SMCAOPTB	20	
SMCABFTM	11C		SMCAFBQE	108		SMCAOPT1	0	80
SMCABFWT	128		SMCAFGND	0	01	SMCAOPT2	0	40
SMCABITF	D0		SMCAFIRT	1	10	SMCAPFBA	38	
SMCABQEH	104		SMCAFLGR	D2		SMCAPFEA	3C	
SMCABQGM	114		SMCAFLGS	D1		SMCAPGFX	D2	40
SMCABQSP	114		SMCAFOPT	52		SMCAPGIN	88	
SMCABQSZ	115		SMCAFRDS	F4		SMCAPGM	A4	
SMCABR14	44		SMCAIDTE	154		SMCAPGOT	8C	
SMCABSW	1	02	SMCAINIT	D1	80	SMCAPOST	78	
SMCABUFP	14		SMCAIPLR	D0	80	SMCAPREV	D2	02
SMCACBQE	110		SMCAITME	150		SMCAPRMT	D0	
SMCACDS	B8		SMCAJWT	8		SMCAPSDP	1	08
SMCACNBF	118		SMCALATE	D1	02	SMCAPSUS	D2	10
SMCADBSY	1	04	SMCALBQE	10C		SMCARCUR	D3	
SMCADEQE	138		SMCALDSN	D0	20	SMCARCWT	12C	
SMCADFLT	24		SMCALIST	D0	40	SMCARD SH	F0	
SMCADISP	D1	08	SMCALL	D1	04	SMCARGNM	A0	
SMCADOMX	88		SMCALOCK	A8		SMCARS01	0	04
SMCADOMY	8C		SMCALRDS	F8		SMCARS14	50	80
SMCADSA	0	10	SMCALSST	15E		SMCARS15	50	40
SMCADSCT	74		SMCAMACR	7C		SMCARS16	50	20
SMCADSNF	50	01	SMCAMAN	1	40	SMCARS17	50	10
SMCADSTM	6C		SMCAMAXT	C8		SMCARS18	50	08
SMCADTB	CC		SMCAMISC	1		SMCARS19	50	04

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SMCARS20	50	02	SMCASRB	D8		SMCAS842	C	
SMCARTRY	D1	40	SMCASRBF	D2	20	SMCATDS	0	02
SMCARUN	D0	04	SMCASRBR	100		SMCATERM	D2	80
SMCASACT	158		SMCASRCT	30		SMCATEXP	84	
SMCASAVE	80		SMCASSB	BC		SMCATIMR	D3	10
SMCASBCT	34		SMCASSTP	148		SMCATJID	7A	
SMCASETC	D3	04	SMCASSTS	98		SMCATOFF	2	
SMCASETP	D1	10	SMCASTCB	B0		SMCATQE	130	
SMCASETR	D3	08	SMCASTTR	D3	40	SMCAUSER	1	80
SMCASETS	D1	01	SMCASTTT	C4		SMCAU29	D2	08
SMCASID	10		SMCASTUS	D0	08	SMCAU83	A8	
SMCASIZE	15E	0160	SMCASUBP	60		SMCAVOL	0	08
SMCASJWT	90		SMCASUSR	D3	20	SMCAWAIT	48	
SMCASKD	D0	02	SMCASVCR	FC		SMCAWRTP	54	
SMCASMCA	4		SMCASYSP	14C		SMCAWTCB	AC	
SMCASMDM	94							

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SMDLR

Common Name : Summary Dump Logical Record
 Macro ID : IHASMDLR
 DSECT Name : SMDLR
 Created by : IEAVTSSD
 Subpool and Key : Not applicable
 Size : 20 bytes plus the length of the data contained in the record
 Pointed to by : None
 Serialization : None
 Function : The summary dump logical record describes each record of a summary dump. It provides a format by which a summary dump can be accessed and printed. It tells the type, address, asid, and length of the data dumped as one summary dump record.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SMDLR	
0	(0) HEX	20	SMDLRHDR	HEADER FOR EACH SUMMARY DUMP LOGICAL RECORD
0	(0) SIGNED	2	SMDLRID	UNIQUE ID FOR EACH RECORD. SEE THE CONSTANTS BELOW
2	(2) SIGNED	2	SMDLRAID	ASID OF FOLLOWING DATA COMMON AREA DENOTED BY FFFF
4	(4) SIGNED	4	SMDLRLEN	TOTAL LENGTH OF THE DATA AREA WHICH IS REPRESENTED BY THIS LOGICAL RECORD AND ALL ITS CONTINUATIONS. THIS WILL BE 0 FOR A CONTINUATION
8	(8) SIGNED	4	SMDLRADR	ORIGINAL ADDR OF THE DATA FOLLOWING
12	(C) SIGNED	4	SMDLRPL	LENGTH OF THE DATA THAT ACTUALLY FOLLOWS THIS HEADER
16	(10) HEX	1	SMDLRMSG	IF NONZERO THIS IS THE ID OF A SUMMARY DUMP MESSAGE WHICH IS TO BE GENERATED AS PART OF THE PRINTED OUTPUT WHEN THE DATA

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
17	(11) HEX	3		IS FORMATED RESERVED
20	(14) CHARACTER	1	SMDLRDAT SMDPASID	DATA "X'FFFA',2,C'H'" PSEUDO ASID FOR THE SUMMARY DUMP RECORDS IN THE SDUMP
CONSTANTS IDENTIFYING MESSAGES TO BE ASSOCIATED WITH SUMMARY DUMP RECORDS. SEE FIELD SMDLRMSG				
....	...1		SMDLSTER	"1" AN ERROR IN THE SDUMP SUMLIST
....	..1.		SMDNORT2	"2" NO RTM2 WA FOUND FOR THE ASID
....	..11		SMDIHSER	"3" THE RELEVANT IHSA COULD NOT BE ADDRESSED
....	.1..		SMDLWSER	"4" THE RELEVANT LOCAL WSA COULD NOT BE ADDRESSED
....	.1.1		SMDSLAER	"5" AN ERROR IN THE SDUMP SMLSTA
....	.11.		SMDRNGER	"6" A SPECIFIED ADDRESS RANGE WAS INVAL- ID
....	.111		SMDPCLER	"7" THE PCLINK STACK CHAIN COULD NOT BE ACCESSED
....	1...		SMDASDER	"8" THE SPECIFIED ASID COULD NOT BE ACCESSED
....	1..1		SMDRNGRF	"9" A SPECIFIED ADDR RANGE COULD NOT BE ACCESSED
....	1.1.		SMDSPNDR	"10" AN ERROR OCCURRED CAUSING THE TER- MINATION OF A SUSPEND SUMMARY DUMP

CONSTANTS IDENTIFYING MESSAGES TO BE ASSOCIATED WITH SUSPEND
 SUMMARY DUMP RECORDS. SEE FIELD SMDLRMSG.

....	1.11		SMDSPDBL	"11" SUSPEND SUMMARY DUMP CALLER WAS DISABLED
....	11..		SMDSPNOD	"12" THE DUMPSRV ADDRESS SPACE WAS NOT ACTIVE
....	11.1		SMDSPDSE	"13" THE DUMPSRV ADDRESS SPACE WAS IN

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	111.		SMDSPDHM	ERROR "14" THE CALLERS HOME ADDRESS SPACE WAS DUMPSRV
....	1111		SMDSPLDS	"15" THE CALL HELD LOCAL LOCK OF DUMPSRV AS CML
...1	....		SMDNOSSV	"16" MODULE IEAVTSSV COULD NOT BE FOUND

CONSTANTS IDENTIFYING EACH TYPE OF SUMMARY DUMP RECORD. SEE FIELD SMDLRID

....	...1		SMDPCCA	"1" PCCA PHYSICAL CONFIG COMMUNICATION AREA
....	..1.		SMDLCCA	"2" LCCA LOCAL CONFIG COMMUNICATION AREA
....	..11		SMDPSA	"3" PSA PREFIX SAVE AREA
....	.1..		SMDTRT	"4" SYSTEM TRACE TABLE WITH PRECEEDING CNTL INFO
..11	1.1.		SMDR2TRT	"58" SYSTEM TRACE TABLE W/O PRECEEDING CNTL INFO
....	.1.1		SMDFRRS	"5" THE SUPERVISOR FRR STACKS
..1.	111.		SMDLIST	"46" STORAGE INDICATED BY THE SUMLIST KEYWORD
..1.	1111		SMDIHSA	"47" IHSA INT HANDLER SAVE AREA
..11	....		SMDREGV	"48" STORAGE NEAR ADDRESSES IN REGISTERS
..11	...1		SMDPSWS	"49" STORAGE NEAR ADDRESSES IN PSWS
..11	..1.		SMDWSAGV	"50" WSAVTG GLOBAL WSA VECTOR TABLE
....	.11.		SMDGPGIO	"6" WSA FOR PAGE IO
....	.111		SMDGGMFM	"7" WSA FOR GETMAIN/FREEMAIN
....	1...		SMDGNUSD	"8" CURRENTLY UNUSED
....	1..1		SMDGSSRS	"9" WSA FOR SUSPEND/RESET FOR RSM
....	1.1.		SMDGEMSO	"10" WSA FOR MEMORY SWITCH
....	1.11		SMDGSTAT	"11" WSA FOR STATUS
....	11..		SMDGOPTM	"12" WSA FOR SYSTEM RESOURCE MANAGER
....	11.1		SMDGMEMT	"13" WSA FOR MEMORY TERMINATION
....	111.		SMDGNQDQ	"14" CURRENTLY UNUSED
....	1111		SMDGREST	"15" WSA FOR STOP RESTART ROUTINE
...1	....		SMDWSCHE	"16" WSA FOR SCHEDULE ROUTINE (BRANCH ENTRY)
..11	11.1		SMDGSLTO	"61" WSA FOR SPIN LOOP TIMEOUT NOTIFY
..11	1111		SMDGDCCR	"63" WSA FOR GLOBAL DISABLED CONSOLE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.1..	1111		SMDGRSFL	"79" WSA FOR RESTART FLIH
..11	..11		SMDWSACV	"51" WSAVTC CPU WSA VECTOR TABLE
...1	...1		SMDCCWSA	"17" WSA FOR LOW-LEVEL COMMON
...1	..1.		SMDCGTF	"18" WSA FOR GENERALIZED TRACE FACILITY
...1	..11		SMDCOPTM	"19" WSA FOR SYSTEM RESOURCES MANAGER
...1	.1..		SMDCTIME	"20" WSA FOR TIMER SAVE AREA
...1	.1.1		SMDCACR	"21" WSA FOR AUTOMATIC CPU RECONFIGURATION
...1	.11.		SMDCRTMK	"22" WSA FOR RTM MACHINE CHECK HANDLER
...1	.111		SMDCIOS	"23" WSA FOR IOS FLIH
...1	1...		SMDCEDSO	"24" WSA FOR DISPATCHER
...1	1..1		SMDCMF1	"25" WSA FOR MANAGEMENT FACILITY 1
...1	1.1.		SMDCABTM	"26" WSA FOR ABTERM
...1	1.11		SMDCRSTI	"27" WSA FOR RESTART
...1	11..		SMDCREST	"28" WSA FOR STOP RESTART
...1	11.1		SMDCRRSA	"29" WSA FOR SUPERVISOR REPAIR ROUTINE
...1	111.		SMDCCCH	"30" WSA FOR RMS CHANNEL CHECK HANDLER
..11	.11.		SMDCASMD	"54" WSA FOR ASM DISABLED INTERRUPT HANDLER
..11	.111		SMDCASMS	"55" WSA FOR ASM SRB DRIVEN IO ROUTINES
..11	111.		SMDCDCON	"62" WSA FOR DISABLED CONSOLE SUPPORT
.1..	1.1.		SMDCRSM	"74" WSA FOR REAL STORAGE MANAGEMENT
.1..	1.11		SMDCSLPR	"75" WSA FOR SLIP/PER
.1..	11..		SMDCASFT	"76" WSA FOR ASVT/AFT RECONSTRUCT
.1..	11.1		SMDCRSFL	"77" WSA FOR THE RESTART FLIH
.1..	111.		SMDCMFAL	"78" WSA FOR MALFUNCTION ALERT
..11	.1..		SMDWSALV	"52" WSAVTL LOCAL WSA VECTOR TABLE
...1	1111		SMDLCWSA	"31" WSA FOR LOW-LEVEL COMMON
..1.	....		SMDLVALC	"32" WSA FOR VALIDITY CHECK ROUTINE
..1.	...1		SMDLRTM2	"33" WSA FOR RTM
..1.	..1.		SMDLSDMP	"34" WSA FOR SDUMP
..1.	..11		SMDLABTM	"35" WSA FOR ABTERM
..1.	.1..		SMDLCIRB	"36" WSA FOR CIRB
..1.	.1.1		SMDLS2EE	"37" WSA FOR STAGE 2 EXIT EFFECTOR
..1.	.11.		SMDLEXIT	"38" WSA FOR EXIT (SVC 3)
..1.	.111		SMDLPOST	"39" WSA FOR POST
..1.	1...		SMDLWAIT	"40" WSA FOR WAIT
..1.	1..1		SMDLSTAT	"41" WSA FOR STATUS
..1.	1.1.		SMDLSTAE	"42" WSA FOR STAE
..1.	1.11		SMDLEVNT	"43" WSA FOR EVENTS (FAST MULTIPLE WAIT)
..1.	11..		SMDLRSM	"44" WSA FOR REAL STORAGE MANAGER

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1.	11.1		SMDLACHP	"45" WSA FOR ASCB CHAP ROUTINE
..11	1...		SMDSDWA	"56" SDWA SYSTEM DIAGNOSTIC WORK AREA
..11	1..1		SMDRTM2A	"57" RTM2WA RTM2 WORK AREA
..11	1.11		SMDNULL	"59" EMPTY RECORD,CONTAINS NO DATA
..11	11..		SMDASIDR	"60" ASID JOB PROCSTEP & STEP NAME FOR FOLLOWING RECORDS
.1..	....		SMDXSB	"64" XSB ASSOCIATED WITH THE IHSA
.1..	...1		SMDSTKE	"65" PCLINK STACK ELEMENT
.1..	..1.		SMDLISTA	"66" ID FOR SUMLSTA RECORDS
.1..	..11		SMDXMASD	"67" ID FOR CROSS MEMORY ASID RECORD

RECORD IDS FOR THE SUSPEND SUMMARY DUMP

.1..	.1..		SMDHASCB	"68" SUSPEND SUMMARY DUMP CALLER HOME ASCB
.1..	.1.1		SMDCTCB	"69" SUSPEND SUMMARY DUMP CALLER HOME TCB
.1..	.11.		SMDCRB	"70" SUSPEND SUMMARY DUMP CALLER HOME RB
.1..	.111		SMDCSSRB	"71" SUSPEND SUMMARY DUMP CALLER HOME SSRB
.1..	1...		SMDHCSAV	"72" SUSPEND SUMDUMP CALLER REGISTER SAVE
.1..	1..1		SMDSPEND	"73" SUSPEND SUMDUMP ERROR RECORD ID
.11.	..11		SMDUNKWN	"99" UNKNOWN RECORD ID
..11	.1.1		SMDEOD	"53" END OF SUMMARY DUMP

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SMDASDER	14	08	SMDGPGIO	14	06	SMDLS2EE	14	25
SMDASIDR	14	3C	SMDGREST	14	0F	SMDLVALC	14	20
SMDCABTM	14	1A	SMDGRSFL	14	4F	SMDLWAIT	14	28
SMDCACR	14	15	SMDGSLTO	14	3D	SMDLWSER	14	04
SMDCASFT	14	4C	SMDGSSRS	14	09	SMDNORT2	14	02
SMDCASMD	14	36	SMDGSTAT	14	0B	SMDNOSSV	14	10
SMDCASMS	14	37	SMDHASC B	14	44	SMDNULL	14	3B
SMDCCCH	14	1E	SMDHCSAV	14	48	SMDPASID	14	FFFA
SMDCCWSA	14	11	SMDIHSA	14	2F	SMDPCCA	14	01
SMDCDCON	14	3E	SMDIHSER	14	03	SMDPCLER	14	07
SMDCEDSO	14	18	SMDLABTM	14	23	SMDPSA	14	03
SMDCGTF	14	12	SMDLACHP	14	2D	SMDPSWS	14	31
SMDCIOS	14	17	SMDLCCA	14	02	SMDREGV	14	30
SMDCMFAL	14	4E	SMDLCIRB	14	24	SMDRNGER	14	06
SMDCMF1	14	19	SMDLCWSA	14	1F	SMDRNGRF	14	09
SMDCOPTM	14	13	SMDLEVNT	14	2B	SMDRTM2A	14	39
SMDCRB	14	46	SMDLEXIT	14	26	SMDR2TRT	14	3A
SMDCREST	14	1C	SMDLIST	14	2E	SMDSDWA	14	38
SMDCRRSA	14	1D	SMDLISTA	14	42	SMDSLAER	14	05
SMDCRSFL	14	4D	SMDLPOST	14	27	SMDSPDBL	14	0B
SMDCRSM	14	4A	SMDLR	0		SMDSPDHM	14	0E
SMDCRSTI	14	1B	SMDLRADR	8		SMDSPDSE	14	0D
SMDCRTMK	14	16	SMDLRAID	2		SMDSPEND	14	49
SMDCSLPR	14	4B	SMDLRDAT	14		SMDSP LDS	14	0F
SMDCSSRB	14	47	SMDLRHDR	0		SMDSPNDR	14	0A
SMDCTCB	14	45	SMDLRID	0		SMDSPNOD	14	0C
SMDCTIME	14	14	SMDLRLEN	4		SMDSTKE	14	41
SMDEOD	14	35	SMDLRMSG	10		SMDTRT	14	04
SMDFRRS	14	05	SMDLRPL	C		SMDUNKWN	14	63
SMDGDCCR	14	3F	SMDLRSM	14	2C	SMDWSACV	14	33
SMDGEMSO	14	0A	SMDLRM2	14	21	SMDWSAGV	14	32
SMDGGMFM	14	07	SMDLSDMP	14	22	SMDWSALV	14	34
SMDGMENT	14	0D	SMDLSTAE	14	2A	SMDWSCHE	14	10
SMDGNQDQ	14	0E	SMDLSTAT	14	29	SMDXMASD	14	43
SMDGNUSD	14	08	SMDLSTER	14	01	SMDXSB	14	40
SMDGOPTM	14	0C						

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SMEW

Common Name : RTCT SDUMP Extension
 Macro ID : IHASMEW
 DSECT Name : SMEW
 Created by : IEAVTSAI during DUMPSRV address space creation
 Subpool and Key : Subpool 229 in DUMPSRV's private, key 0
 Size : 52 bytes
 Pointed to by : RTCTSMEW field of the RTCT data area
 Serialization : Same serialization that only allows 1 SDUMP at a time.
 CVTSDBF - high order bit. RTCTSDPL - pointer to SDUMP parameter list.
 Function : Used to hold information pertaining to the Dumping
 Services (DUMPSRV) address space. The information is used by the
 summary dump processor when taking an enabled suspend summary dump.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	52	SMEW	SUMMARY DUMP EXTENDED WORK AREA
0	(0) CHARACTER	4	SMEWID	EBCDIC IDENTIFIER SMEW-
4	(4) CHARACTER	12	SMEWVB	VIRTUAL BUFFER INFORMATION
4	(4) SIGNED	4	SMEWVBST	START OF VIRTUAL BUFFER
8	(8) SIGNED	4	SMEWVBEN	END OF VIRTUAL BUFFER
12	(C) SIGNED	4	SMEWVBCT	BLOCK COUNT FOR VIRT BUFF
16	(10) ADDRESS	2	SMEWSASD	ASID OF SDUMP CALLER
18	(12) ADDRESS	2		RESERVED
20	(14) ADDRESS	4	SMEWRTRN	COMMON RETURN REGISTER SAVE AREA
24	(18) CHARACTER	20	SMEWCNTL	AREA FOR CONTROLLING THE BUFFER
24	(18) ADDRESS	2	SMEWVSPC	SPACE REMANING ON CURRENT PAGE
26	(1A) ADDRESS	2	SMEWVBUS	NUMBER OF BUFFER BLOCKS USED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
28	(1C) ADDRESS	4	SMEWBLK	ADDRESS OF CURRENTLY USED BLOCK
32	(20) ADDRESS	4	SMEWVAD	ADDRESS OF FREE DATA SPACE
36	(24) ADDRESS	4	SMEWPSAD	CURRENT SUMDUMP PSEUDO ADDRESS
40	(28) CHARACTER	4	SMEWFLGS	FLAGS USED TO CONTROL BUFFER
40	(28) CHARACTER	1	SMEWFLG1	FIRST BYTE OF FLAGS
	1... ..		SMEWVSBW	1=VIRTUAL BUFFER TO WRITE OUT
	.1.. ..		SMEWSBIT	1=S-BIT ONE DURING MOVE PROCESS
	..1.		SMEWVSBF	1=VIRTUAL STORAGE BUFFER IS FULL
44	(2C) ADDRESS	4		RESERVED
48	(30) ADDRESS	4		RESERVED

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SMPL

Common Name : Storage Management Parameter List Entry
Macro ID : ISGSMPL
DSECT Name : SMPL
Created by : Created by the caller of ISGSALC, ISGSDAL and ISGSME.
Subpool and Key : Subpool determined by the caller; key 0
Size : 16 bytes per entry
Pointed to by : Pointer maintained by the caller.
Serialization : None
Function : Each Storage Management Parameter List Entry represents a request to the Global Resource Serialization Storage Manager.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	16	SMPL	STORAGE MANAGEMENT PARM LIST ENTRY
0	(0) UNSIGNED	1	SMPFLAGS	INDICATOR FLAGS
	1... ..		SMPEOPL	END OF PARM LIST INDICATOR WHEN 1, THIS ENTRY IS LAST ENTRY OF THE PARAMETER LIST
	.1.. ..		SMPGLIND	GLOBAL/LOCAL INDICATOR 0 = LOCAL CONTROL BLOCK, 1 = GLOBAL CONTROL BLOCK
	..1.		SMPRSV1	RESERVED
	...1		SMPRSV2	RESERVED
	.... 1...		SMPRSV3	RESERVED
	.... .1..		SMPRSV4	RESERVED
	.... ..1.		SMPRSV5	RESERVED
	.... ...1		SMPRSV6	RESERVED
1	(1) CHARACTER	1	SMPRSV7	RESERVED
2	(2) UNSIGNED	2	SMPINDEX	INDEX NUMBER OF THE RESOURCE POOL TABLE ENTRY FOR THE CELL REQUESTED
4	(4) CHARACTER	4	SMPRSV8	RESERVED
8	(8) UNSIGNED	4	SMPCNUM	NUMBER OF CELLS REQUESTED TO BE ALLOCATED. NOT USED FOR DEALLOCATION

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
12	(C) ADDRESS	4	SMPADDR	INPUT ADDRESS OF FIRST CELL TO BE DEAL- LOCATED, OUTPUT ADDRESS OF FIRST CELL THAT WAS ALLOCATED
16	(10) CHARACTER	0	SMPEND	END OF SMPL

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SPCT

Common Name : RSM Swap Control Table
 Macro ID : IHASPCT
 DSECT Name : SPCT
 Created by : IEAVITAS (RSM supervisor)
 Subpool and Key : 245 and key 0
 Size : 168 bytes
 Pointed to by : RSMSPCT field of the RSMHD data area
 Serialization : SALLOC lock
 Function : Contains the necessary information to complete a swapout or
 swapin operation.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	168	SPCT	DECLARE SPCT LEVEL 1
0	(0) ADDRESS	4	SPCTSWRT	VSA OF THE SWAP IN ROOT PCB IF SPCTSWIN = 1. VSA OF SWAP OUT WORK PCB IF SPCTOUT = 1.
4	(4) SIGNED	2	SPCTFIX	NUMBER OF FIX ENTRIES IN THIS SPCT
6	(6) SIGNED	2	SPCTLSQA	NUMBER OF LSQA ENTRIES IN THIS SPCT
8	(8) UNSIGNED	1	SPCTNSEG	NUMBER OF SEGMENT ENTRIES THAT CAN BE HELD IN THIS SPCT
9	(9) UNSIGNED	1	SPCTSSEG	NUMBER OF ACTIVE SEGMENT ENTRIES IN THIS SPCT. THERE IS ONE ENTRY FOR EACH ACTIVE PRIVATE AREA SEGMENT.
10	(A) BITSTRING	1	SPCTFLG1	SPCT FLAG BYTE
	1... ..		SPCTSWIN	1 SWAP-IN IN PROGRESS
	.1.. ..		SPCTOUT	1 SWAP OUT IN PROGRESS
	..1.		SPCTPURG	1 PAGING WAS PURGED DURING SWAP OUT
	...1		SPCTBIG	1 THERE EXISTS ONE OR MORE FIX ENTRIES WITH A FIX COUNT GREATER THAN 255
 1...		SPCTPSET	1 PAGE DATASET USED FOR LSQA PAGES ON LAST SWAP OUT. 0 SWAP DATASET USED FOR LSQA PAGES ON LAST SWAP OUT.
1..		SPCTVROT	1 SWAP OUT HAS BEEN REQUESTED BY VEQRP

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1111 (B) CHARACTER	1	SPCTIDEN	RESERVED BIT FLAGS IEAVITAS WILL SET TO SPCT ID CHARACTER 'S'
12	(C) SIGNED	2	SPCTWSSZ	WORKING SET SIZE (SUM OF LSQA, PRIVATE FIXED, COMMON FIXED, STAGE-1 PAGEABLE AND STAGE-2 PAGEABLE PAGES TO BE BROUGHT INTO STORAGE AT SWAP-IN TIME. NOTE THAT COMMON FIXED PAGES MAY ALREADY BE IN STORAGE AT SWAP-IN TIME, AND THAT ALLO- CATION OF FRAMES TO STAGE-2 PAGEABLE PAGES CAN BE DEFERRED)
14	(E) SIGNED	2	SPCTSIZE	THE SIZE IN BYTES OF THE SPCT
16	(10) CHARACTER	152	SPCTSWAP	THIS AREA AND EVERY EXTENSION IS MAPPED BY SPCTEXTM

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OFFSETS TYPE LENGTH NAME DESCRIPTION

SPCTSWAP CONTAINS A MAXIMUM OF 18 FIX SWAP ENTRIES, OR 24 LSQA/PAGEABLE-PAGE SWAP ENTRIES, OR A COMBINATION OF THE TWO NOT EXCEEDING 144 BYTES. LSQA ENTRIES COME FIRST, FOLLOWED BY PAGEABLE-PAGE ENTRIES (IF ANY), AND THE FIX ENTRIES COME LAST. SPCTSWAP, ALTHOUGH PHYSICALLY CONTAINED IN THE BASE SPCT STORAGE AREA, IS LOGICALLY THE FIRST SPCT SWAP-ENTRY EXTENSION, AND IS MAPPED BY THE SPCTEXTM STRUCTURE. BYTES 4 THRU 7 OF EACH SPCT SWAP-ENTRY EXTENSION ARE RESERVED. FOR SPCTSWAP, HOWEVER, THESE FOUR BYTES ARE USED TO HOLD COUNTERS OF THE NUMBER OF STAGE-1 PAGEABLE-PAGES PAGES TO BE BROUGHT IN AT SWAP-IN TIME, AND THE NUMBER OF STAGE-1 PAGEABLE-PAGE SPCT ENTRIES. THUS, SPCTSWAP IS MAPPED HERE IN THE SPCT HEADER AS THE 'NEGATIVE' OF ITS IMAGE UNDER THE SPCTEXTM MAPPING. THE FIRST FOUR BYTES AND THE LAST 144 BYTES ARE HERE CALLED 'RESERVED', BECAUSE THEY ARE USED, NOT AS PART OF THE BASE SPCT, BUT RATHER AS PART OF THE FIRST SPCT SWAP-ENTRY EXTENSION, WHICH HAPPENS TO BE LOCATED HERE IN THE BASE SPCT STORAGE AREA, BUT WHICH IS MAPPED BY SPCTEXTM. IN THE SPCTEXTM MAPPING, BYTES 4-7 OF THE SPCT EXTENSION ARE DEFINED AS RESERVED, SINCE, IN ALL SPCT SWAP-ENTRY EXTENSIONS EXCEPT THE FIRST THEY REALLY ARE RESERVED, AND, IN THE THE FIRST EXTENSION --- THE ONE DEFINED HERE, ON SPCTSWAP, IN THE SPCT BASE ---, THEY ARE ADDRESSED BY THEIR OFFSET FROM THE BASE, NOT AS PART OF THE SWAP-ENTRY EXTENSION MAPPED ONTO BYTES 16-167 OF IT.

16	(10) CHARACTER	4		RESERVED (SEE SPCTEXTM MAPPING)
20	(14) SIGNED	2	SPCTS1PP	COUNT OF PAGEABLE PAGES SWAPPED OUT ALONG WITH THE LSQA PAGES. THESE PAGEABLE WORKING SET PAGES WILL BE BROUGHT IN AS PART OF STAGE-1 SWAP-IN (THIS COUNT DOES NOT INCLUDE PAGEABLE PAGES TO BE SWAPPED IN AS PART OF STAGE-2 SWAP-IN)
22	(16) SIGNED	2	SPCTS1PE	COUNT OF NUMBER OF PAGEABLE-PAGE SPCT ENTRIES IN THIS SPCT (DIFFERS FROM THE COUNT IN 'SPCTS1PP' BY THE NUMBER OF

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				SPCT PAGEABLE-PAGE ENTRIES IN WHICH SPCTNOP=1, I.E., THE NUMBER OF NO-OP'D SPCT PAGEABLE-PAGE ENTRIES)
24	(18) CHARACTER	144		RESERVED (SEE SPCTEXTM MAPPING)
168	(A8) CHARACTER	0	SPCTSEGS	AN AREA CONTAINING A LIST OF SEGMENT ENTRIES FOR THE ADDRESS SPACE. AS SEGMENTS ARE CREATED OR DESTROYED FOR THE ADDRESS SPACE THIS AREA EXPANDS OR CONTRACTS AS REQUIRED IN INCREMENTS OF 96 BYTES (6 BYTES PER ACTIVE SEGMENT).
0	(0) STRUCTURE	6	SPCTSEGE	DECLARE BASE FOR ENTRY
0	(0) ADDRESS	1	SPCTSEGX	CORRESPONDING INDEX INTO SEGMENT TABLE FOR THIS ENTRY.
1	(1) BITSTRING	3	SPCTPGT	VSA OF PAGE TABLE FOR SEGMENT IDENTIFIED IN INDEX.
4	(4) BITSTRING	2	SPCTBITM	BIT MAP REPRESENTING PRIVATE AREA SEGMENT EACH PAGE MAPS TO A UNIQUE FLAG BIT. 1 PAGE IS TO BE SWAPPED IN.
0	(0) STRUCTURE	8	SPCTSWPE	DECLARE BASE FOR ENTRY
0	(0) CHARACTER	6	SPCTLSP	REFERENCE TO BEGINNING OF A LSQA OR PAGEABLE-PAGE ENTRY
0	(0) BITSTRING	1	SPCTFLAG	SPCT FLAG BITS.
	1... ..		SPCTLVAL	1=LSID IN SPCTSSID IS VALID
	.1... ..		SPCTNFX	1=THIS IS A 6 BYTE LSQA OR PAGEABLE-PAGE ENTRY (I.E., IT IS NOT AN 8 BYTE FIX ENTRY)
	..1.		SPCTBBLO	1=THIS SPCT ENTRY IS FOR A PAGEABLE PAGE WHOSE XPTE HAS THE 'BACK BELOW' BIT ON. IF POSSIBLE, A FRAME BELOW 16 MEG REAL SHOULD BE ASSIGNED ON SWAP-IN, BECAUSE IT IS EXPECTED THAT THIS PAGE, THOUGH CURRENTLY PAGEABLE, MAY BE FIXED IN

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1		SPCTDEFR	FUTURE, AND, IF THAT HAPPENS, ASSIGNING A 'BELOW' FRAME ON SWAP-IN MAY SAVE A 1=PAGE WAS FLAGGED DEFER RELEASE AT SWAP TIME.
	.... 1....		SPCTPP	1=THIS IS A PAGEABLE-PAGE SPCT ENTRY. THIS BIT CAN BE =1 ONLY WHEN SPCTNFX IS ALSO =1
	.... .1..		SPCTCHGD	1=THIS PAGE WAS CHANGED AT SWAP-OUT TIME, SO THAT THE CHANGE BIT MUST BE SET ON IN THE PROTECT KEY AT SWAP-IN TIME, I.E.,THIS IS A PAGEABLE PAGE FOR WHICH NO VALID AUX COPY EXISTS, BECAUSE IT WAS SWAPPED ALONG WITH THE LSQA, AND SWAP-IN WILL DELETE THAT AUX COPY (BECAUSE IT WILL NORMALLY BE ON AN ASM SWAP DATA-SET). SPCTCHGD CAN BE =1 ONLY WHEN SPCTPP ALSO IS =1
	.... ..1.		SPCTNOP	1=THIS SPCT ENTRY HAS BEEN NO-OP'D, AND SWAP-IN PROCESSING SHOULD IGNORE THIS SPCT ENTRY
1	.... ..1 (1) CHARACTER	3	SPCTSSID	RESERVED THREE BYTE LSID
4	(4) BITSTRING	2	SPCTVBN	VBN AND RESERVED BITS
6	(6) SIGNED	2	SPCTFIXC	FIX COUNT ASSOCIATED WITH FIX ENTRY. THIS FIELD DOESN'T EXIST FOR LSQA OR PAGEABLE-PAGE ENTRY
0	(0) STRUCTURE	152	SPCTEXTM	DECLARE STRUCTURE BASED
0	(0) ADDRESS	4	SPCTEXT	ADDRESS OF NEXT EXTENSION
4	(4) CHARACTER	4		RESERVED (SEE BLOCK COMMENT PRECEDING SPCTSWAP AREA MAPPING IN SPCT BASE)
8	(8) CHARACTER	144	SPCTENT	SPACE FOR FIX AND LSQA AND PAGEABLE-PAGE SPCT ENTRIES
8	(8) CHARACTER	144	SPCTENTS	LSQA AND FIXED AND PAGEABLE-PAGE SPCT ENTRIES

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
152	(98) CHARACTER	0	SPCTXEND	END OF EXTENSION

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SPL

Common Name : Service Priority List
 Macro ID : IHASPL
 DSECT Name : SPLENTRY
 Created by : Memory request and sysgen
 Subpool and Key : 245 and key 0
 Size : 16 bytes
 Pointed to by : CVTGSPL field of the CVT data area
 ASCBSPL field of the ASCB data area
 Serialization : Compare and Swap (CS) logic
 Function : Serves as queue anchors for the SRB dispatching queues; i.e.,
 points to the non-quiessceable SRB queue and to the system SRB queue.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	0 SPLENTRY	
0	(0)	ADDRESS	4 SPLFSRB	ADDRESS OF FIRST SRB
4	(4)	ADDRESS	4 SPLLSRB	ADDRESS OF LAST SRB
GLOBAL SPL				
0	(0)	STRUCTURE	0 GSPL	
0	(0)	CHARACTER	8 GSPLNQ	NON-QUIESCABLE LEVEL
0	(0)	ADDRESS	4 GSPLNQF	FIRST NONQ SRB
4	(4)	ADDRESS	4 GSPLNQL	LAST NONQ SRB
8	(8)	CHARACTER	8 GSPLSYS	SYSTEM PRIORITY LEVEL
8	(8)	ADDRESS	4 GSPLSYSF	FIRST SYSTEM SRB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) ADDRESS	4	GSPLSYSL	LAST SYSTEM SRB
16	(10) ADDRESS ...1	4	GSPLEND GSPLSIZE	END OF GSPL "GSPLEND-GSPL" SIZE OF GSPL
LOCAL SPL				
0	(0) STRUCTURE	0	LSPL	
0	(0) CHARACTER	8	LSPLNQ	NON-QUIESCEABLE LEVEL
0	(0) ADDRESS	4	LSPLNQF	FIRST NONQ SRB
4	(4) ADDRESS	4	LSPLNQL	LAST NONQ SRB
8	(8) CHARACTER	8	LSPLSYS	SYSTEM PRIORITY LEVEL
8	(8) ADDRESS	4	LSPLSYSF	FIRST SYSTEM SRB
12	(C) ADDRESS	4	LSPLSYSL	LAST SYSTEM SRB
16	(10) ADDRESS ...1	4	LSPLEND LSPLSIZE	END OF LSPL "LSPLEND-LSPL" LSPL SIZE

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SPQE

Common Name : VSM Subpool Queue Element
 Macro ID : IHASPQE
 DSECT Name : SPQE
 Created by : IGVGPVT, IGVSTSKI, IGVGAPVT
 Subpool and Key : 255 and key 0
 Size : 20 bytes
 Pointed to by : SPQENEXT, TCBMSS, TCBUKYSP, TCBSWA
 Serialization : LOCAL lock
 Function : Describes the space allocated to a subpool and the
 attributes of that space.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	SPQESECT	SUBPOOL QUEUE ELEMENT
0	(0) SIGNED	4	SPQEAD SPQEPTR	ADDRESS OF NEXT OLDEST SPQE "SPQEAD"
4	(4) SIGNED.... .1..	4	SPDQEPTR SPDQEAD	POINTER TO FIRST DQE FOR SUBPOOL "SPDQEPTR"
8	(8) BITSTRING 1... .... .1.. .... ..1.	1	SPQEFLGS SPSHARE LASTSPQE SPQEOWN	SPQE FLAGS "X'80'"0=SUBPOOL OWNED 1=SUBPOOL SHARED, NOT OWNED "X'40'"LAST SPQE ON CHAIN "X'20'"0=SUBPOOL IS OWNED, NOT SHARED 1=SUBPOOL IS OWNED AND SHARED
9	(9) CHARACTER	1	SPQERES1	RESERVED
10	(A) CHARACTER	1	SPQEID	IDENTIFYING NUMBER OF SUBPOOL
11	(B) CHARACTER	1	SPQEKEY	KEY OF THE OWNING TASK
12	(C) SIGNED	4	SPQERES2	RESERVED

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SRB

Common Name : Service Request Block
Macro ID : IHASRB
DSECT Name : SRBSECT
Created by : Control program routines
Subpool and Key : 245 and key 0
Size : 44 bytes
Pointed to by : SVTGSPL field of the SVT data area
 SVTGSMP field of the SVT data area
 SVTLSMQ field of the SVT data area
 ASCBLSMQ field of the ASCB data area
 ASCBLSPL field of the ASCB data area
 ASCBFSLQ field of the ASCB data area
 ASCBLSLQ field of the ASCB data area
 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
 PCBSSRB field of the PCB data area
 SRBFLNK field of the SRB data area
 TQESRB field of the TQE data area
 TVCSSRBA field of the TVCS data area

Serialization : SRBFLNK - Compare & Swap; all others - owner-serialized
Function : The I/O supervisor uses the SRB to dispatch I/O processing for a request. It identifies the address space in which processing is to be done. Also used as input to the SCHEDULE macro when scheduling a routine for asynchronous execution.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SRBSECT	
0	(0) ADDRESS	4	SRB	
0	(0) CHARACTER	4	SRBID	EBCDIC ACRONYM FOR SRB OR SSRB.
4	(4) ADDRESS	4	SRBFLNK	FORWARD CHAIN FIELD

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
8	(8) ADDRESS	4	SRBASCB	PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO
12	(C) CHARACTER	8	SRBFLC	SRB AREA MOVED TO LOW CORE
12	(C) BITSTRING	2	SRBCPAFF	CPU AFFINITY MASK
14	(E) SIGNED	2	SRBPASID	PURGEDQ ASID IDENTIFIER
16	(10) ADDRESS	4	SRBPTCB	PURGEDQ TCB IDENTIFIER
20	(14) ADDRESS	4	SRBEP	ENTRY POINT OF ROUTINE
24	(18) ADDRESS	4	SRBRMTR	ADDRESS OF RESOURCE MGR RTN
28	(1C) ADDRESS	4	SRBPARM	USER PARAMETER
32	(20) ADDRESS	4	SRBSAVE	SAVE AREA POINTER
36	(24) BITSTRING	1	SRBPKF	PROTECT KEY INDICATION
37	(25) BITSTRING	1	SRBPRIOR	PRIORITY LEVEL INDIC
37	(25) BITSTRING	1	SRBFLGS	SRB OPTION FLAGS
	1... ..		SRBLLREQ	"X'80'" LOCAL LOCK REQUIRED
	.1.. ..		SRBLLHLD	"X'40'" LOCAL LOCK HELD
	..1.		SRBFRREQ	"X'20'" FRR REQUESTED
	...1		SRBFRCL	"X'10'" THIS BIT IS OBSOLETE SINCE FRR PARM AREA ALWAYS CLEARED BY DISPATCHER. RETAINED FOR COMPATIBILITY.
	.... 1...		SRBSUSP	"X'08'" SUSPENDED SRB ONLY ON FOR SSRB
	.... .1..		SRBPNONQ	"X'04'" NON QUIESCABLE SRB
1.		SRBCMLRQ	"X'02'" SRB REPRESENTS A CML LOCK REQUEST OR LOCAL LOCK REQUEST DELAYED DUE TO A CML REQUEST. IF SRBSUSP=1, THIS SSRB REQUIRES A CML LOCK FOR ITS OWN PROCESSING. IF SRBSUSP=0 AND SRBLLREQ=0, THIS SRB WAS CREATED ON BEHALF OF A TASK REQUIRING A CML LOCK. IF SRBSUSP=0 AND SRBLLREQ=1, THIS DELAYED SRB HAS BEEN RESCHEDULED WITHOUT THE LOCAL LOCK DUE TO A CML LOCK REQUEST.
1		SRBRES1	"X'01'" RESERVED.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
38 (26) BITSTRING	1	SRBPSYS SRBHLHI	"X'00'" SYSTEM PRIORITY LEVEL INDICATION OF SUSPEND LOCKS HELD AT SRB SUSPENSION
39	(27) BITSTRING	1	SRBFLGS1	SRB TYPE FLAGS.
	1... ..		SRBMAIN	"X'80'" SRB/SSRB MUST BE FREEMAINED.
	.1.. ..		SRBSP245	"X'40'" SRB/SSRB FROM SUBPOOL 245.
	..1.		SRBRES2	"X'20'" RESERVED.
	...1		SRBRES3	"X'10'" RESERVED.
	.... 1...		SRBRES4	"X'08'" RESERVED.
	.... .1..		SRBRES5	"X'04'" RESERVED.
	.... ..1.		SRBRES6	"X'02'" RESERVED.
	.... ...1		SRBRES7	"X'01'" RESERVED.
40	(28) ADDRESS	4	SRBFRA	FRR ROUTINE ADDRESS
44	(2C) SIGNED	4	SRBEND	END OF SRB
	..1. 11..		SRBSIZE	"SRBEND-SRBSECT" SIZE OF SRB

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SSAG

Common Name : SSOB Extension for Allocation Grouping of SUBSYS
 Macro ID : IEFSSAG
 DSECT Name : SSAG
 Created by : IEFAB427
 Subpool and Key : User subpool and key
 Size : 48 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list fo the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1. .111			SSOBAGRP	"39" GROUP SUBSYS REQUEST(SSOBFUNC)
....			SSAGRTOK	"0" ALL REQUESTS ALLOCATED
.... .1..			SSAGDDER	"4" NO ALLOCATION-ONE OR MORE REQUESTS IN ERROR SSAGRBEC IS TO BE SET FOR THE REQUESTS IN ERROR
.... 1...			SSAGGPER	"8" NO ALLOCATION-GROUP IN ERROR SSAGG- PEC IS TO BE SET AND SSAGRBEC MAY OPTIONALLY BE SET
....			SSAGRQOK	"0" REQUEST ALLOCATED
.... .1..			SSAGORUN	"4" OPERATING SYSTEM RESOURCE NOT AVAIL- ABLE
.... 1...			SSAGSRUN	"8" SUBSYSTEM RESOURCE NOT AVAILABLE
.... 11..			SSAGIPRM	"12" INVALID PARAMETER SPECIFIED
...1			SSAGIREQ	"16" INVALID REQUEST
...1 .1..			SSAGCREQ	"20" CANCEL REQUESTED
...1 1...			SSAGSSER	"24" SUBSYSTEM LOGIC ERROR
....			SSAGBGN	"x" SSAG BEGINNING
0	(0) ADDRESS	2	SSAGLEN	EXTENSION SIZE
2	(2) BITSTRING	1	SSAGFLGS	FLAG BYTE
	1...		SSAGWAIT	"X'80'" OK TO WAIT
	.1..		SSAGSMG	"X'40'" SUBSYSTEM TO RETURN ERROR MES- SAGES
	..1.		SSAGRSV1	"X'20'" RESERVED FLAG
	...1		SSAGRSV2	"X'10'" RESERVED FLAG
 1...		SSAGRSV3	"X'08'" RESERVED FLAG
1..		SSAGRSV4	"X'04'" RESERVED FLAG

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.		SSAGRSV5	"X'02'" RESERVED FLAG
1		SSAGRSV6	"X'01'" RESERVED FLAG
3	(3) HEX	1	SSAGFLG2	RESERVED
4	(4) SIGNED	2	SSAGGPEC	GROUP(STEP) LEVEL ERROR CODE
6	(6) SIGNED	2	SSAGGPIC	GROUP(STEP) LEVEL INFO CODE
8	(8) ADDRESS	4	SSAGARBP	POINTER TO FIRST RB
12	(C) ADDRESS	4	SSAGCNCL	ADDRESS OF CANCEL ECB
16	(10) ADDRESS	4	SSAGJBNM	ADDRESS OF JOB NAME
20	(14) ADDRESS	4	SSAGMLN	MAXIMUM LENGTH OF GROUP LEVEL MESSAGE
24	(18) ADDRESS	4	SSAGMGP	ADDRESS OF GROUP LEVEL MSG BLOCK
	...1 11..		SSAGSIZE	"*-SSAGBGN" SIZE OF EXTENSION HEADER
	..11		SSOBLN1B	"SSOBHSIZ+SSAGSIZE"

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SSAL

Common Name : SSOB Extension for Allocation/Unallocation of SYSOUT
 Macro ID : IEFSSAL
 DSECT Name : SSAL
 Created by : IEFAB45F, IEFAB427, IEFAB4A2
 Subpool and Key : User subpool and key
 Size : 84 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	.11.		SSOBALOC	"6" ALLOCATION FUNCTION ID (SSOBFUNC)
....	.111		SSOBUNAL	"7" UNALLOCATION FUNCTION ID (SSOBFUNC)
....	....		SSALRTOK	"0" ALLOCATION/UNALLOCATION SUCCESSFUL
....	.1..		SSALWTFI	"4" ALLOCATION WAIT FAILED
....	1...		SSALCREQ	"8" CANCEL REQUESTED
....	11..		SSALIDST	"12" INVALID DESTINATION
...1	....		SSALNAUT	"16" USER UNAUTHORIZED TO ALLOCATE THIS DATA SET
...1	.1..		SSALUNAL	"20" UNABLE TO ALLOCATE
....	....		SSALBGN	"x"
0	(0) ADDRESS	2	SSALLEN	ALLOC/UNALLOC EXTENSION LENGTH
2	(2) BITSTRING	1	SSALFLG1	ALLOCATION/UNALLOCATION FLAGS
	1...		SSALDELT	"X'80'" DELETE AT UNALLOCATION
	.1..		SSALHOLD	"X'40'" HOLD AT UNALLOCATION
	..1.		SSALNHLD	"X'20'" NOHOLD OPTION SPECIFIED
	...1		SSALWAIT	"X'10'" WAIT FOR ALLOCATION
	.... 1...		SSALTRKM	"X'08'" ASSIGN A SEPARATE TRACK GROUP MAP
	.... .1..		SSALSPIN	"X'04'" SPIN OFF DATA SET
1.		SSALASNM	"X'02'" DATA SET REQUIRES A DATA SET NAME
1		SSALKEEP	"X'01'" SUBSYSTEM SHOULD KEEP THE DS RESERVED
3	(3) HEX	1	SSALRSV2	

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SSARB

Common Name : Subsystem Allocation Request Block

Macro ID : IEFSSARB

DSECT Name : SSABARBK

Created by : IEFAB427

Subpool and Key : Subpool 230 and key 1

Size : 60 bytes

Pointed to by : SSAGNRBP field of the SSARB data area
 SSAGNRBP field of the SSOB data area

Serialization : None

Function : Contains the information needed by a subsystem to allocate a SUBSYS DD request or its equivalent dynamic allocation request.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	60	SSAGARBK	SSAG REQUEST BLOCK MAPPING
0	(0) SIGNED	2	SSAGRBLN	REQUEST BLOCK LENGTH
2	(2) BITSTRING	2	SSAGRBFL	RESERVED FLAGS
4	(4) SIGNED	2	SSAGRBECC	DD RELATED ERROR CODE
6	(6) SIGNED	2	SSAGRBIIC	DD RELATED INFO CODE-DEFINED BY SUBSYSTEM
8	(8) SIGNED	2	SSAGDMLN	MAX LENGTH OF DD LEVEL MSG
10	(A) SIGNED	2		RESERVED
12	(C) ADDRESS	4	SSAGNRBP	POINTER TO NEXT RB OR 0
16	(10) ADDRESS	4	SSAGDDNM	POINTER TO DDNAME
20	(14) ADDRESS	4	SSAGDISP	POINTER TO DATA SET DISP
24	(18) ADDRESS	4	SSAGDUMY	POINTER TO DUMMY/SYSIN FLAGS
28	(1C) ADDRESS	4	SSAGSOUT	POINTER TO SYSOUT FLAGS
32	(20) ADDRESS	4	SSAGUNIT	POINTER TO UNIT TYPE

SSARB

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
36	(24) ADDRESS	4	SSAGADSP	POINTER TO ALTERNATE DISP
40	(28) ADDRESS	4	SSAGSSNM	POINTER TO SUBSYSTEM NAME
44	(2C) ADDRESS	4	SSAGJFCB	POINTER TO JFCB
48	(30) ADDRESS	4	SSAGSSWA	POINTER TO SSWA
52	(34) ADDRESS	4	SSAGSSCM	POINTER TO INFO
56	(38) ADDRESS	4	SSAGDMGP	POINTER TO DD LEVEL MESSAGE BLOCK
0	(0) STRUCTURE	2	SSAGDMBK	DD LEVEL MESSAGE BLOCK
0	(0) SIGNED	2	SSAGDMGL	LENGTH OF MESSAGE RETURNED BY SUBSYSTEM
2	(2) CHARACTER	0	SSAGDMSG	DD LEVEL MESSAGE TEXT
0	(0) STRUCTURE	2	SSAGGMBK	GROUP LEVEL MESSAGE BLK
0	(0) SIGNED	2	SSAGGMGL	LENGTH OF MESSAGE RETURNED BY SUBSYSTEM
2	(2) CHARACTER	0	SSAGGMSG	GROUP LEVEL MESSAGE TEXT

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SSAT

Common Name : Sub System Affinity Table
Macro ID : IHASSAT
DSECT Name : SSAT
Created by : IEAVBK (system-wide Null SSAT) and IEAVESSI
Subpool and Key : Subpool 253, key 0
Size : 80 decimal bytes
Pointed to by : TCBSSAT
Serialization : Local lock
Function : Maps the Sub System Affinity Table for the SSAFF
SET/OBTAIN service routine IEAVESSI.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	80	SSAT	
0	(0) CHARACTER	16	SSATHDR	SSAT HEADER BEGIN
0	(0) CHARACTER	4	SSATSSAT	SSAT ACRONYM
4	(4) ADDRESS	4	SSATLNK	PTR TO NEXT SSAT ON CHAIN
8	(8) SIGNED	4	SSATCT	NUMBER OF VALID SUBSYSTEM INDICES THIS TABLE
12	(C) SIGNED	4	SSATHIDX	HIGHEST INDEX FOR ALL TABLES
16	(10) CHARACTER	64	SSATENTS	SUBSYSTEM ENTRY START
80	(50) CHARACTER	0	SSATEND	SUBSYSTEM ENTRY

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SSCA

Common Name : SSOB Extension for Common Allocation/JES3 Exit
 Macro ID : IEFSSCA
 DSECT Name : SSCA
 Created by : IEFAB422, IEFAB490
 Subpool and Key : User subpool and key
 Size : 52 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1 1...		SSOBCACD	"24" COMMON ALLOCATION FUNCTION ID(SSOBFUNC)
	.... ....		SSCAALCA	"0" ALLOC SELECT RETURN CODE
	.... .1..		SSCAJESA	"4" JES3 SELECT DEV RETURN CODE
	.... ....		SSCABGN	"*" COMMON ALLOCATION BEGINNING
0	(0) ADDRESS	2	SSCALEN	COMMON ALLOCATION EXTENSION SIZE
2	(2) SIGNED	2	SSCARSV0	RESERVED
4	(4) ADDRESS	4	SSCAPSTN	POINTER TO STEP NUMBER
8	(8) ADDRESS	4	SSCAPDDN	POINTER TO DDNAME
12	(C) ADDRESS	4	SSCAPDSN	POINTER TO DSNAME
16	(10) ADDRESS	4	SSCAPRPN	POINTER TO RELATIVE POSITION NUMBER
20	(14) ADDRESS	4	SSCAPNUN	POINTER TO NUMBER OF UNITS REQUIRED
24	(18) ADDRESS	4	SSCAPUAR	POINTER TO UCB ADDRESS RETURN AREA
28	(1C) ADDRESS	4	SSCAPFLG	POINTER TO FLAG FIELD
	..1.		SSCASIZE	"*-SSCABGN" EXTENSION LENGTH
	..11 .1..		SSOBLN11	"SSOBHSIZ+SSCASIZE" TOTAL SSOB LENGTH

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SSCF

Common Name : SSOB Extension for Failing SVC 34 Command
 Macro ID : IEFSSCF
 DSECT Name : SSCF
 Created by : IEE0803D
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1.			SSOBCFCD	"32" COMMAND FAIL FUNCTION (SSOBFUNC)
....			SSOBCFOK	"0" ISSUE SVC34 COMMAND ABORTED MESSAGE
.... .1..			SSOBCFNO	"4" SUPPRESS ISSUING SVC34 COMMAND ABORTED MESSAGE
....			SSCFBGN	"*" SSFC BEGINNING
0	(0) ADDRESS	2	SSCFLEN	SSFC EXTENSION LENGTH
2	(2) SIGNED	2	SSCFRSV0	RESERVED
4	(4) ADDRESS	4	SSCFBFAD	ADDRESS OF COMMAND BUFFER
8	(8) SIGNED	4	SSCFMRRC	RETURN CODE FROM MEMORY REQUEST, OR CSCB CREATION FAILURE CODE

MEMORY REQUEST RETURN CODES AND FAILURE CODES

....			SSCFMROK	"0" MEMORY REQUEST SUCCESSFUL
.... .1..			SSCFSRMN	"4" SRM PROHIBITS ADDRESS SPACE CREATION
.... 1...			SSCFNORS	"8" RESOURCES NOT AVAILABLE (INSUFFI- CIENT SQA OR NO ASID AVAILABLE)
.... 11..			SSCFABND	"12" UNEXPECTED ABEND IN MEMORY REQUEST
..1.			SSCFCSFL	"32" CSCB CREATION FAILURE CODE
12	(C) SIGNED	4	SSCFRSV1	RESERVED

SSCF

SSCF

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1			SSCFSIZE	"x-SSCFBGN" EXTENSION LENGTH
..1. .1..			SSOBLN16	"SSOBHSIZ+SSCFSIZE" TOTAL SSOB LENGTH

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SSCI

Common Name : SSOB Extension for SUBSYS Keyword Converter Exit
 Macro ID : IEFSSCI
 DSECT Name : SSCI
 Created by : IEFVFA
 Subpool and Key : User subpool and key
 Size : 44 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1. .11.			SSOBCONV	"38" CONVERTER SUBSYS EXIT (SSOBFUNC)
....			SSCIRTOK	"0" SUCCESSFUL SYNTAX CHECK
.... .1..			SSCICMOD	"4" SUCCESSFUL-INTERNAL TEXT MODIFIED
.... 1...			SSCISYNC	"8" SYNTATICAL ERROR CONTINUE JOB
.... 11..			SSCISYNT	"12" SYNTATICAL ERROR TERMINATE JOB
..1. .1..			SSCIPERR	"36" PROGRAM ERROR IN ROUTINE
....			SSCIBGN	"*" CONVERTER EXTENSION BEGINNING
0	(0) ADDRESS	2	SSCILEN	CONVERTER EXTENSION SIZE
2	(2) HEX	1	SSCIFLG1	FLAGS RESERVED
3	(3) HEX	1	SSCIFLG2	FLAGS RESERVED
4	(4) ADDRESS	4	SSCIINTP	ADDRESS INTERNAL TEXT OF JCL STMT
8	(8) ADDRESS	4	SSCISUBS	ADDRESS OF FIRST SUBSYS LEN/PARM
12	(C) SIGNED	2	SSCIMLEN	MAX LENGTH OF MESSAGE
14	(E) SIGNED	2	SSCINPRM	NUMBER OF LENGTH/PARM PAIRS IN SUBSYSTEM DATA
16	(10) ADDRESS	4	SSCIMPTR	POINTER TO MESSAGE AREA
20	(14) CHARACTER	4	SSCISSNM	SUBSYSTEM NAME
...1 1...			SSCISIZE	"*-SSCIBGN" EXTENSION LENGTH

SSCI

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
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ERROR MESSAGE PROCESSING

FIELD SSCIMPTR POINTS TO A MESSAGE AREA CREATED BY THE CALLER IN WHICH THE SUBSYSTEM IS TO RETURN ERROR MESSAGES.

EACH MESSAGE AREA CONSISTS OF A 2 BYTE LENGTH FOLLOWED BY A MESSAGE TEXT AREA OF LENGTH DEFINED IN SSCIMLEN. A MESSAGE IS TO BE RETURNED WHEN A NON-ZERO SSOBRETN IS RETURNED BY THE SUBSYSTEM.

..1. 11..

SSOBLN19

"SSOBHSIZ+SSCISIZE" TOTOAL SSOB LENGTH

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SSCM

Common Name : SSOB Extension for Command Processing Exit
 Macro ID : IEFSSCM
 DSECT Name : SSCM
 Created by : IEE0403D
 Subpool and Key : User subpool and key
 Size : 12 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.... 1.1.			SSOBCMND	"10" CMD PROCESSING FUNCTION ID (SSOB-FUNC)
....			SSCMSCMD	"0" SVC 34 SHOULD PROCESS THIS COMMAND
.... .1..			SSCMSUBC	"4" FUNCTION 10: SUBSYSTEM HAS PROCESSED THE COMMAND
.... 1...			SSCIMMSG	"8" FUNCTION 10: SUBSYSTEM COULD NOT EXECUTE THE COMMAND SVC 34 ISSUES MESSAGE
....			SSCMBGN	"x"
0	(0) ADDRESS	2	SSCMLEN	COMMAND EXTENSION LENGTH
2	(2) HEX	1	SSCMRESV	RESERVED
3	(3) ADDRESS	1	SSCMVRSN	VERSION LEVEL
.... ...1			SSCM132	"1" VERSION LEVEL FOR OS/VS2 JBB1328
.... ...1			SSCMVRID	"SSCM132" VERSION LEVEL VALUE
4	(4) ADDRESS	4	SSCMBUFF	COMMAND BUFFER ADDRESS
8	(8) SIGNED	4	SSCMSCID	COMMAND SOURCE CONSOLE ID OR 0 ASID OF TIME-SHARING USER CMD AUTHORITY OF INPUT STREAM
.... 11..			SSCMSIZE	"x-SSCMBGN" COMMAND EXTENSION LENGTH
..1.			SSOBLLEN7	"SSOBHSIZ+SSCMSIZE" TOTAL SSOB LENGTH

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SSCS

Common Name : SSOB Extension for Cancel/Status Function
 Macro ID : IEFSSCS
 DSECT Name : SSCS
 Created by : IKJEFF54, IKJEFF49, IKJEFF52
 Subpool and Key : User subpool and key
 Size : 60 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	.1.		SSOBCANC	"2" CANCEL FUNCTION ID (SSOBFUNC)
....	.11		SSOBSTAT	"3" JOB STATUS FUNCTION ID (SSOBFUNC)
....	....		SSCSRTOK	"0" CANCEL/STATUS COMPLETED
....	.1..		SSCSNOJB	"4" JOB NAME NOT FOUND
....	1...		SSCSBADI	"8" INVALID JOBNAME/JOB ID COMBINATION
....	11..		SSCSNCAN	"12" JOB NOT CANCELLED DUPLICATE JOB- NAMES AND NO JOB ID GIVEN
...1	....		SSCSMALL	"16" STATUS ARRAY TOO SMALL
...1	.1..		SSCSOUTP	"20" JOB NOT CANCELLED-JOB ON OUTPUT QUEUE
...1	1...		SSCSYNTX	"24" JOBID WITH INVALID SYNTAX FOR SYB- SYSTEM
...1	11..		SSCSICAN	"28" INVALID CANCEL REQUEST CANNOT CAN- CEL AN ACTIVE TSO USER OR STARTED TASK TSO USER MAY NOT CANCEL THE ABOVE JOBS UNLESS THEY ARE ON AN OUTPUT QUEUE.
....	....		SSCSBGN	"x"
0	(0) ADDRESS	2	SSCSLEN	CANCEL/STATUS EXTENSION LENGTH
2	(2) BITSTRING	1	SSCSFLGS	USER SELECTION FLAGS
	1... ..		SSCSUSID	"X'80'" USERID IS IN JOBNAME FIELD
	.1.. ..		SSCSCOUT	"X'40'" CANCEL THE JOBS OUTPUT

EQU X'3F' RESERVED FLAGS

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
3	(3) HEX	1	SSCSULEN	USERID LENGTH
4	(4) CHARACTER	8	SSCSJOBN	JOB NAME
12	(C) CHARACTER	8	SSCSJOBI	JOB ID OR BLANKS
20	(14) SIGNED	2	SSCSDIMP	SET BY CALLER TO INDICATE SIZE OF ARRAY AVAILABLE TO SUBSYSTEM TO STORE RESULTS IN
22	(16) SIGNED	2	SSCSDIMR	SET BY SUBSYSTEM TO INDICATE SIZE OF ARRAY USED, OR NEEDED IF NOT ENOUGH IS AVAILABLE

SSCSARRAY MAPS AN ELEMENT OF AN ARRAY GOTTEN BY THE CALLER FOR THE SUBSYSTEM TO RETURN RESULTS IN. IF MORE THAN ONE ELEMENT EXISTS, ADDRESSABILITY TO THIS ARRAY MUST BE UPDATED BY THE ELEMENT SIZE (SSCSSELSZ). THE TOTAL ARRAY SPACE USED FOR JOB STATUS REPLIES FROM THE SUBSYSTEM (ARRAY ELEMENT SIZE IN BYTES TIMES THE NUMBER OF ELEMENTS) MUST BE INDICATED IN SSCSDIMR. MESSAGES MUST FOLLOW THE LAST SSCSARRAY ELEMENT USED FOR JOB STATUS.

24	(18) CHARACTER ...1 1...	16	SSCSARRAY SSCSARBG	"X"
24	(18) CHARACTER	8	SSCSARID	JOB IDENTIFIER
32	(20) BITSTRING 1... .. .1...1.1 1...	1	SSCSFLG1 SSCSJACT SSCSEXQC SSCSOUTQ SSCSHOLD SSCSSECL	FLAGS SET BY SUBSYSTEM "X'80'" JOB IS CURRENTLY ACTIVE (EXECUTING AFTER BEING GIVEN CONTROL BY THE INITIATOR) "X'40'" JOB IS WAITING FOR EXECUTION (ON A PRE-EXECUTION QUEUE) "X'20'" JOB IS ON OUTPUT QUEUE "X'10'" JOB IS HELD IN ITS CURRENT QUEUE "X'08'" JOB HAS A SECOND LEVEL MESSAGE

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OFFSETS TYPE LENGTH NAME DESCRIPTION

EQU	X'07'		RESERVED FLAGS	
-----	-------	--	----------------	--

33	(21) CHARACTER	1	SSCSUJOB	JOBNAME CHARACTER RETURNED BY SUBSYSTEM FOR USERID AS JOBNAME
34	(22) CHARACTER	2	SSCSRSV2	RESERVED
36	(24) ADDRESS	4	SSCSMPTR	POINTER TO MESSAGE RETURNED IN ARRAY

THE SECOND LEVEL MESSAGE AREA IS MAPPED BY A MULTI-LEVEL PUTLINE OUTPUT LINE DESCRIPTOR (OLD). THE FIRST 9 BYTES OF THE FIRST OR ONLY MESSAGE SEGMENT ARE RESERVED FOR THE INSERTION OF A MESSAGE ID BY THE CALLER. ONE TO 62 BYTES OF MESSAGE TEXT MAY BE PROVIDED BY THE SUBSYSTEM. A MAPPING OF THE OLD FORMAT NEEDED FOLLOWS.
 SSCSMPTR -> ONE TSO PUTLINE OUTPUT LINE DESCRIPTOR (OLD)
 +0 0 (NO OTHER OLD)
 +4 NUMBER OF MESSAGE SEGMENTS
 +8 PTR TO FIRST MESSAGE SEGMENT
 +. PTR TO NTH MESSAGE SEGMENT
 MESSAGE SEGMENT FORMAT.....
 +0 TOTAL LENGTH OF MSG SEGMENT (INCLUDING THIS FIELD)
 +2 0 IF FIRST SEGMENT, OR OFFSET FOR INSERT IN FIRST
 +4 10 BLANKS FOR MSG ID (ONLY IN FIRST SEGMENT)
 +D MESSAGE TEXT (1-62 BYTES TOTAL FOR ALL SEGMENTS)

...1	SSCSSELSZ	"*-SSCSARAY" ARRAY ELEMENT SIZE
..1. 1...	SSCSIZE	"*-SSCSBGN" CANCEL/STATUS EXTENSION LENGTH
..11 11..	SSOBLLEN2	"SSOBHSIZ+SSCSIZE" TOTAL SSOB LENGTH

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SSCU

Common Name : SSOB Extension for Common Unallocation/JES3 Exit
 Macro ID : IEFSSCU
 DSECT Name : SSCU
 Created by : IEFAB4A0
 Subpool and Key : User subpool and key
 Size : 44 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
...	1.1		SSOBCUCD	"25" COMMON UNALLOCATION FUNCTION ID(SSOBFUNC)
....	....		SSCUBGN	"x" COMMON UNALLOCATION BEGINNING
0	(0) ADDRESS	2	SSCULEN	COMMON UNALLOCATION EXTENSION LENGTH
2	(2) BITSTRING	1	SSCUFLGS	COMMON UNALLOCATION FLAGS
	1... ..		SSCULSCL	"X'80'" THIS IS THE LAST CALL FOR THE STEP, SET ON FOR EACH DD BEING UNALLO- CATED AT STEP UNALLOCATION
	.111 1111		SSCURSVF	"X'7F'" RESERVED FLAGS
3	(3) HEX	1	SSCURSV0	RESERVED
4	(4) ADDRESS	4	SSCUPSTN	POINTER TO STEP NUMBER
8	(8) ADDRESS	4	SSCUPDDN	POINTER TO DDNAME
12	(C) ADDRESS	4	SSCUPRPN	POINTER TO RELATIVE POSITION NUMBER
16	(10) SIGNED	4	SSCURSV2	RESERVED
20	(14) SIGNED	4	SSCURSV1	RESERVED
	...1 1...		SSCUSIZE	"x-SSCUBGN" EXTENSION LENGTH
	..1. 11..		SSOBLN12	"SSOBHSIZ+SSCUSIZE" TOTAL SSOB LENGTH

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SSCVT

Common Name : Subsystem Communications Vector Table
 Macro ID : IEFJSCVT
 DSECT Name : SSCT
 Created by : IEFJSBLD
 Subpool and Key : 241 and key 0
 Size : 36 bytes
 Pointed to by : JESSCT field of the JESCT data area (first SSCVT)
 SSCTSCTA field of the SSCVT data area (next SSCVT)
 SSCTS SYN field of the SSCVT data area (next SSCVT
 that has same subsystem hash value as this SSCVT)

Serialization : None

Function : Identifies each subsystem defined to the system and points to
 the SSVT for each subsystem.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	SSCT SSCTBEGN	"x"
0	(0) CHARACTER	4	SSCTID	CONTROL BLOCK IDENTIFIER
4	(4) ADDRESS	4	SSCTSCTA	PTR TO NEXT SSCVT OR ZERO
8	(8) CHARACTER	4	SSCTS NAM	SUBSYSTEM NAME
12	(C) BITSTRING 1... .1...	1	SSCTFLG1 SSCTS FOR SSCTUPSS	FLAGS "X'80'" SERIAL FIB OPERATIONS REQUIRED "X'40'" USE PRIMARY SUBSYSTEM'S SERVICES FOR THIS SUBSYSTEM (E.G. SYSOUT)
13	(D) HEX	1	SSCTRSV1(3)	RESERVED
16	(10) ADDRESS	4	SSCTSSVT	SUBSYSTEM VECTOR TABLE POINTER
20	(14) SIGNED	4	SSCTSUSE	RESERVED FOR SUBSYSTEM USAGE
24	(18) ADDRESS	4	SSCTS SYN	HASH TABLE SYNONYM POINTER

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) SIGNED	4	SSCTSUS2	RESERVED FOR SUBSYSTEM USAGE
32	(20) SIGNED ..1. .1..	4	SSCTRSV3 SSCTSIZE	RESERVED "X-SSCTBEGN" SSCVT LENGTH

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SSDA

Common Name : SSOB Extension for OPEN/CLOSE, Checkpoint/Restart
 Macro ID : IEFSSDA
 DSECT Name : SSDA
 Created by : IGG0193K
 Subpool and Key : User subpool and key
 Size : 28 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		SSOBOPEN	"16" OPEN FUNCTION ID
	...1 ...1		SSOBCLOS	"17" CLOSE FUNCTION ID
	...1 ..1.		SSOBCKPT	"18" CHECKPOINT FUNCTION ID
	...1 ..11		SSOBREST	"19" RESTART FUNCTION ID
	.... ....		SSDMOK	"0" REQUEST SUCCESSFUL
	.... .1..		SSDMFAIL	"4" REQUEST UNSUCCESSFUL
	.... ....		SSDABGN	"x"
0	(0) ADDRESS	2	SSDALEN	O/C, C/R EXTENSION LENGTH
2	(2) HEX	1	SSDAVER	MACRO VERSION NUMBER
3	(3) BITSTRING	1	SSDARESF	RESTART FLAGS
	1...		SSDAAUTO	"X'80'" AUTO CHECKPOINT RESTART
	.1..		SSDADEFR	"X'40'" DEFERRED CHECKPOINT RESTART
4	(4) ADDRESS	4	SSDABUFR	4K BUFFER POINTER GOTTEN BY CHECKPT AND RESTART, USED BY SUBSYSTEM OR 256 BYTE BUFFER POINTER GOTTEN BY OPEN, USED BY SUBSYSTEM FOR OPEN VERIFICATION
8	(8) ADDRESS	4	SSDAJFCB	JFCB POINTER
12	(C) ADDRESS	4	SSDADEBP	DEB POINTER
16	(10) ADDRESS	4	SSDASSCM	POINTER TO SUBSYSTEM INFORMATION
20	(14) ADDRESS	4	SSDADSAB	DSAB POINTER

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) BITSTRING	1	SSDAOCFL	OPEN/CLOSE FLAGS
	1...		SSDAOPNV	"X'80'" OPEN VERIFICATION
25	(19) CHARACTER	3	SSDARSV2	RESERVED
	...1 11..		SSDASIZE	"*-SSDABGN" O/C,C/R EXTENSION LENGTH
	..11		SSOBLENC	"SSOBHSIZ+SSDASIZE" TOTAL SSOB LENGTH
1.		SSDACVER	"2" CURRENT VERSION NUMBER

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SSDD

Common Name : SSOB Extension for Change DDname/JES3 Exit
 Macro ID : IEFSSDD
 DSECT Name : SSDD
 Created by : IEFDB4FB
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...	1.1.		SSOBDDCD	"26" CHANGE DDNAME FUNCTION ID(SSOBFUNC)
....	....		SSDDBGN	"*" CHANGE DDNAME BEGINNING
0	(0) ADDRESS	2	SSDDLEN	CHANGE DDNAME EXTENSION LENGTH
2	(2) SIGNED	2	SSDDRSV0	RESERVED
4	(4) SIGNED	4	SSDDNUMB	NUMBER OF CHANGED DDNAMES
8	(8) ADDRESS	4	SSDDNPTR	POINTER TO DDNAME INFO
12	(C) SIGNED	4	SSDDRSV1	RESERVED
...		SSDDSIZE	"*-SSDDBGN" EXTENSION LENGTH
..1.	.1..		SSOBLN13	"SSOBHSIZ+SSDDSIZE" TOTAL SSOB LENGTH

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SSDM

Common Name : SSOB Extension for Delete Operator Messages
 Macro ID : IEFSSDM
 DSECT Name : SSDM
 Created by : IEAVXDOM, IEAVMDOM, IEAVMED2
 Subpool and Key : User subpool and key
 Size : 28 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... 111.		SSOBDOM	"14" DOM FUNCTION ID (SSOBFUNC)
	.... ....		SSDMBGN	"x"
0	(0) ADDRESS	2	SSDMLN	DOM EXTENSION LENGTH
2	(2) SIGNED	2	SSDMRESV	RESERVED
4	(4) ADDRESS	4	SSDMDMCB	DOM CONTROL BLOCK ADDRESS
 1...		SSDMSIZE	"x-SSDMBGN" DOM EXTENSION LENGTH
	...1 11..		SSOBLNA	"SSOBHSIZ+SSDMSIZE" TOTAL SSOB LENGTH

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SSDR

Common Name : SSOB Extension for Dynamic Device Reconfiguration
 Macro ID : IEFSSDR
 DSECT Name : SSDR
 Created by : IGFDI0
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
...1 11..			SSOBDDR1	"28" DDR DEVICE CANDIDATE SELECTION FUNCTION
...1 11.1			SSOBDDR2	"29" DDR DEVICE CANDIDATE VERIFICATION FUNCTION
...1 111.			SSOBDDR3	"30" DDR UCB SWAP NOTIFICATION FUNCTION
...1 1111			SSOBDDR4	"31" DDR SWAP COMPLETION FUNCTION
....			SSDR1EDL	"0" LIST OF ELIGIBLE DEVICES IS RETURNED
.... .1..			SSDR1IDL	"4" LIST OF INELIGIBLE DEVICES IS RETURNED
.... 1...			SSDR1NOL	"8" NO LIST RETURNED, NO MORE DEVICES ELIGIBLE
....			SSDR2ED	"0" CANDIDATE IS AN ELIGIBLE DEVICE
.... .1..			SSDR2ID	"4" CANDIDATE IS AN INELIGIBLE DEVICE
....			SSDRBGN	"*" SSDR BEGINNING
0	(0) ADDRESS	2	SSDRLEN	SSDR EXTENSION LENGTH
2	(2) BITSTRING	1	SSDRFLG1	SSDR FLAG BYTE FUNCTION 1&2
3	(3) BITSTRING	1	SSDRFLG2	SSDR FLAG BYTE FUNCTION 3&4
.... 1...			SSDR4SWP	"X'08'" FOR FUNCTION SSOBDDR4 ONLY IF ON SWAP SUCCESSFUL IF OFF SWAP UNSUCCESSFUL
4	(4) ADDRESS	4	SSDRSFRU	POINTER TO SWAP FROM UCB
8	(8) ADDRESS	4	SSDRSTOU	POINTER TO SWAP TO UCB
12	(C) ADDRESS	4	SSDRUCBL	POINTER TO JES3 UCB LIST (1/2 WORDS FOLLOWED BY X'FFFF')

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1			SSDRSIZE	"*-SSDRBGN" EXTENSION LENGTH
..1. .1..			SSOBLN15	"SSOBHSIZ+SSDRSIZE" TOTAL SSOB LENGTH

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SSEN

Common Name : SSOB Extension for End of Memory
 Macro ID : IEFSSSEN
 DSECT Name : SSEN
 Created by : IEFJRECM
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... 1...		SSOBEOM	"8" EOM FUNCTION ID (SSOBFUNC)
	.... ....		SSENBN	"x"
0	(0) ADDRESS	2	SSENLEN	EOM EXTENSION LENGTH
2	(2) SIGNED	2	SSENRESV	RESERVED
4	(4) SIGNED	2	SSENASID	ASID OF TERMINATING MEMORY
6	(6) BITSTRING	1	SSENFLAG	END OF MEMORY FLAGS
	1...		SSENTYPE	"X'80'" ON ABNORMAL MEMORY TERMINATION OFF- NORMAL MEMORY TERMINATION
7	(7) HEX	1	SSENRSV1	RESERVED
8	(8) ADDRESS	4	SSENJBNM	JOBNAME LIST POINTER EACH JOBNAME ENTRY IS 12 BYTES 1ST 4 BYTES PTR TO NEXT JOB- NAME ENTRY (LAST ENTRY CONTAINS ZEROS IN 1ST 4 BYTES) LAST 8 BYTES JOBNAME ASSO- CIATED WITH TERMINATING MEMORY
12	(C) ADDRESS	4	SSENASCB	ASCB ADDRESS OF TERMINATING MEMORY
	...1		SSENSIZE	"*-SSENBN" EOM EXTENSION LENGTH
	..1. .1..		SSOBLN5	"SSOBHSIZ+SSENSIZE" TOTAL SSOB LENGTH

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SSET

Common Name : SSOB Extension for End of Task
 Macro ID : IEFSSSET
 DSECT Name : SSET
 Created by : IEFJRECM, IEFJREFC
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... .1..		SSOBEOT	"4" EOT FUNCTION ID (SSOBFUNC)
	..11 ..1.		SSOBFEOT	"50" EOT FUNCTION ID (SSOBFUNC)
	.... ....		SSETBGN	"x"
0	(0) ADDRESS	2	SSETLEN	EOT EXTENSION LENGTH
2	(2) SIGNED	2	SSETRSV0	RESERVED
4	(4) SIGNED	2	SSETASID	ASID OF MEMORY IN WHICH TASK WAS ACTIVE
6	(6) BITSTRING	1	SSETFLAG	END OF TASK FLAGS
	1...		SSETYPE	"X'80'" ON ABNORMAL TASK TERMINATION
				OFF- NORMAL TASK TERMINATION
7	(7) HEX	1	SSETRSV1	RESERVED
8	(8) ADDRESS	4	SSETCBA	ADDRESS OF TERMINATING TCB
12	(C) ADDRESS	4	SSETASCB	ASCB ADDRESS OF TERMINATING TASK'S MEMO- RY
	...1		SSETSIZE	"*-SSETBGN" EOT EXTENSION LENGTH
	..1. .1..		SSOBLEND	"SSOBHSIZ+SSETSIZE" TOTAL SSOB LENGTH

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SSIB

Common Name : Subsystem Identification Block
 Macro ID : IEFJSSIB
 DSECT Name : SSIB
 Created by : Many users (IEFIIC, IEE0403D, IEE0803D, IEAVSWCH,...)
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : JSCBSSIB field of the JSCB data area
 SSOBSSIB field of the SSOB data area
 Serialization : None
 Function : Identifies the subsystem to the subsystem interface and
 passes information between the subsystem and its caller.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	SSIB SSIBEGIN	"X"
0	(0) CHARACTER	4	SSIBID	CONTROL BLOCK IDENTIFIER
4	(4) ADDRESS	2	SSIBLEN	SSIB LENGTH
6	(6) BITSTRING 1... ..	1	SSIBFLG1 SSIBPJES	FLAGS "X'80'" THIS SSIB IS USED TO START THE JOB ENTRY SUBSYSTEM
7	.1... .. (7) HEX	1	SSIBNSVC SSIBRESV	"X'40'" NO SVC INDICATOR RESERVED
8	(8) CHARACTER	4	SSIBSSNM	SUBSYSTEM NAME
12	(C) CHARACTER	8	SSIBJBID	JOB IDENTIFIER
20	(14) CHARACTER	8	SSIBDEST	DEFAULT USERID FOR SYSOUT DESTINATION
28	(1C) SIGNED	4	SSIBRSV1	RESERVED
32	(20) SIGNED ..1. .1..	4	SSIBSUSE SSIBSIZE	RESERVED FOR SUBSYSTEM USAGE "X--SSIBEGIN" SSIB LENGTH

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SSJS

Common Name : SSOB Extension for Job Select
 Macro ID : IEFSSJS
 DSECT Name : SSJS
 Created by : IEFSD161
 Subpool and Key : User subpool and key
 Size : 74 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	.1.1		SSOJBLSL	"5" JOB SELECTION FUNCTION ID (SSOBFUNC)
....	....		SSJSRTOK	"0" OK-JOB HAS BEEN SELECTED
....	.1..		SSJSISTP	"4" INITIATOR SHOULD STOP
...1	....		SSJSYSER	"16" SYSTEM ERROR OCCURRED DURING SUB-SYSTEM PROCESSING SYSTEM ERROR CODE IS IN SSJSSERR
..1.	.1..		SSJSPERR	"36" PROGRAM ERROR
....	....		SSJSBGN	"x"
0	(0) ADDRESS	2	SSJSLEN	JOB SELECT EXTENSION LENGTH
2	(2) HEX	1	SSJSVER	VERSION NUMBER OF SSJS
	....	..11	SSJSCVER	"3" CURRENT VERSION NUMBER OF SSJS
3	(3) CHARACTER	1	SSJSRESV	RESERVED
4	(4) SIGNED	2	SSJSSTEP	STEP NUMBER OR ZERO
6	(6) BITSTRING	1	SSJSFLG1	JOB DESCRIPTOR BITS
	1...	....	SSJSSTRS	"X'80'" STEP RESTART
	.1..	....	SSJSCHRS	"X'40'" CHECKPOINT/RESTART
	..1.	....	SSJSCNRS	"X'20'" CONTINUE RESTART
	...1	....	SSJSRSV1	"X'10'" RESERVED
	....	1...	SSJSWARM	"X'08'" WARM START THE JOB
1..	SSJSAIFG	"X'04'" ALTERNATE INTERPRETER FLAG IF ON SELECT INTERPRETER ADDRESS FROM SSJSAIAD FIELD
11	SSJSRSV2	"X'03'" RESERVED
7	(7) BITSTRING	1	SSJSFLG2	FLAGS

SSJS

SSJS

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	1... .. .1... ..		SSJSBYP SSJSXBM	"X'80'" BYPASS PASSWORD CHECKING "X'40'" XBM
8	(8) ADDRESS	4	SSJSLCT	LCT ADDRESS
12	(C) ADDRESS	4	SSJSMACB	MESSAGE ACB ADDRESS
16	(10) ADDRESS	4	SSJSJACB	JOURNAL ACB ADDRESS
20	(14) ADDRESS	4	SSJSTACB	INTERNAL TEXT ACB ADDRESS
24	(18) ADDRESS	4	SSJSIPRM	ADDRESS OF PARAMETER FOR PHASE TWO OF THE INTERPRETER
28	(1C) ADDRESS	4	SSJSJMR	JMR ADDRESS
32	(20) SIGNED	4	SSJSSERR	SYSTEM ERROR RETURN CODE FROM CONVERTER OR SWA CREATE
36	(24) SIGNED	4	SSJSAIAD	ALTERNATE INTERPRETER ADDRESS
40	(28) CHARACTER	9	SSJSPASS	SECURITY FIELD
40	(28) HEX	1	SSJSPSLN	PASSWORD LENGTH
41	(29) CHARACTER	8	SSJSPSWD	SECURITY PASSWORD
49	(31) CHARACTER	9	SSJSPAS2	NEW PASSWORD FIELD
49	(31) HEX	1	SSJSPSL2	NEW PASSWORD LENGTH
50	(32) CHARACTER	8	SSJSPSW2	NEW PASSWORD
58	(3A) CHARACTER	8	SSJSCLSS	JES3 JOB CLASS
66	(42) CHARACTER	8	SSJSJDVT	JCL DEFINITION VECTOR TABLE NAME
74	(4A) CHARACTER	8	SSJSUSER	PROPAGATED USERID
82	(52) CHARACTER	8	SSJSGRP	PROPAGATED GROUPID
	.1.1 1.1.		SSJSIZE	"*-SSJSBGN" JOB SELECT EXTENSION LENGTH
	.11. 111.		SSOBLN3	"SSOBHSIZ+SSJSIZE" TOTAL SSOB LENGTH

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SSJT

Common Name : SSOB Extension for Job Deletion
 Macro ID : IEFSSJT
 DSECT Name : SSJT
 Created by : IEFSD166
 Subpool and Key : User subpool and key
 Size : 44 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.... 11..			SSOBTERRM	"12" JOB DELETION FUNCTION ID (SSOBFUNC)
..1. .1..			SSJTERR	"36" PROGRAM ERROR
....			SSJTERR	"x"
0	(0) ADDRESS	2	SSJTLEN	JOB DELETION EXTENSION LENGTH
JOB STATUS INFORMATION				
2	(2) BITSTRING	1	SSJTFLG1	JOB STATUS FLAGS
	1...		SSJTJFAL	"X'80'" JOB FAILED INDICATOR
	.1..		SSJTJCFAL	"X'40'" JOB FAILED BECAUSE OF CONDITION CODE
	..1.		SSJTABND	"X'20'" JOB ABENDED (JCTABEND=ON)
3	(3) BITSTRING	1	SSJTRSV1	RESERVED
4	(4) ADDRESS	4	SSJTJMR	JMR ADDRESS
8	(8) SIGNED	4	SSJTPCOD	PTR TO THE 2 BYTE CONDITION CODE OR ZERO
12	(C) SIGNED	4	SSJTSPN1	PTR TO THE STEPNAME OF THE ABENDING STEP IF JOB ABENDED OR ZERO

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
16	(10) SIGNED	4	SSJTPSN2	PTR TO THE STEPNAME OF THE STEP WHICH CALLED THE PROC ANY OR ZERO
20	(14) SIGNED	4	SSJTSNUM	PTR TO THE NUMBER OF THE LAST STEP TO COMPLETE EXECUTION.
	...1 1...		SSJTFSIZE	"*-SSJTBGN" JOB DELETION EXTENSION LENGTH
	..1. 11..		SSOBLENB	"SSOBHSIZ+SSJTFSIZE" TOTAL SSOB LENGTH

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SSMO

Common Name : SSOB Extension for MSS Volume Control/JES3 Exit
 Macro ID : IEFSSMO
 DSECT Name : SSMO
 Created by : ICBVSL00
 Subpool and Key : User subpool and key
 Size : 48 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1.	..11		SSOBMSVC	"35" MSS VOLUME CONTROL FUNCTION ID(SSOBFUNC)
..1.	.1.1		SSOBOEOV	"37" OPEN/EOV FUNCTION ID(SSOBFUNC)
....	....		SSMOVOLA	"0" VOLUME AVAILABLE RETURN CODE
....	.1..		SSMOVOLB	"4" VOLUME BUSY RETURN CODE
....	....		SSMOBGN	"*" MSS VOLUME CONTROL BEGINNING
0	(0) ADDRESS	2	SSMOLEN	MSS VOL CNTR EXTENSION SIZE
2	(2) HEX	1	SSMOFLG1	SSMO FLAG BYTE
1...	....		SSMOOPEN	"X'80'" SSI INVOKED BY OPEN
.1..	....		SSMOFINL	"X'40'" FINAL CALL FROM OPEN/EOV
..1.	....		SSMOSCR	"X'20'" DADSM SCRATCH IF ON
...1	....		SSMORUSE	"X'10'" JES3 SHOULD TRY FOR VOLUME REUSE AND SWITCH SGD'S IF NEEDED
....	1...		SSMOMNTD	"X'08'" MSVC SHOWS VOLUME MOUNTED TO ANY HOST
3	(3) HEX	1	SSMORSV0	RESERVED
4	(4) ADDRESS	4	SSMOPNAM	POINTER TO JOBNAME
8	(8) ADDRESS	4	SSMOPSTN	POINTER TO STEP NUMBER
12	(C) ADDRESS	4	SSMOPUAD	POINTER TO UNIT ADDRESS
16	(10) ADDRESS	4	SSMOPVOL	POINTER TO VOLUME SERIAL

SSMO

SSMO

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
20	(14) ADDRESS	4	SSMOPDDN	POINTER TO DDNAME
24	(18) ADDRESS	4	SSMOPRPN	POINTER TO RELATIVE POS NUMBER
	...1 11..		SSMOSIZE	"x-SSMOBGN" EXTENSION LENGTH
	..11		SSOBLN17	"SSOBHSIZ+SSMOSIZE" TOTAL SSOB LENGTH

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SSMS

Common Name : SSOB Extension for MSSC Message Task/JES3 Exit
 Macro ID : IEFSSMS
 DSECT Name : SSMS
 Created by : ICB2MSG
 Subpool and Key : User subpool and key
 Size : 32 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1. .1..			SSOBMSSC	"36" MSSC MSG TASK ID(SSOBFUNC)
....			SSMSBGN	"*" MSSC MESSAGE TASK BEGINNING
0	(0) ADDRESS	2	SSMSLEN	MSSC MESSAGE TASK EXT SIZE
2	(2) SIGNED	2	SSMSRSV0	RESERVED
4	(4) ADDRESS	4	SSMSPSDG	POINTER TO THE SORTED SDG
8	(8) ADDRESS	4	SSMSPLRU	POINTER TO FIRST SDG WITH LRU
.... 11..			SSMSSIZE	"*-SSMSBGN" EXTENSION LENGTH
..1.			SSOBLN18	"SSOBHSIZ+SSMSSIZE" TOTAL SSOB LENGTH

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SSNQ

Common Name : SSOB Extension for Dynamic Allocation Change ENQ
 Macro ID : IEFSSNQ
 DSECT Name : SSNQ
 Created by : IEFAB4DC
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
...1	1.11		SSOBNQCD	"27" CHANGE ENQ USE ATTRIBUTE FUNCTION ID(SSOBFUNC)
....	....		SSOBNQOK	"0" ALLRIGHT TO ENQ TO CHANGE USE ATTRIBUTE
....	.1..		SSOBNQNO	"4" NOT CURRENTLY POSSIBLE TO CHANGE THE ENQ USE ATTRIBUTE
....	....		SSNQBGN	"*" CHANGE ENQ USE ATTRIBUTE BEGINNING
0	(0) ADDRESS	2	SSNQLEN	SSNQ EXTENSION LENGTH
2	(2) SIGNED	2	SSNQRSV0	RESERVED
4	(4) ADDRESS	4	SSNQDSNP	ADDR DSNAME BUFFER
8	(8) ADDRESS	4	SSNQFLGP	ADDR FLAG FIELD
12	(C) SIGNED	4	SSNQRSV1	RESERVED
...1		SSNQSIZE	"*-SSNQBGN" EXTENSION LENGTH
..1.	.1..		SSOBLN14	"SSOBHSIZ+SSNQSIZE" TOTAL SSOB LENGTH

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SSOB

Common Name : Subsystem Options Block
 Macro ID : IEFJSSOB or IEFSSOBH
 DSECT Name : SSOB
 Created by : Many users (IEFIIC, IEE0403D, IEE0803D, IEAVSWCH,...)
 Subpool and Key : User subpool and key
 Size : Header is of fixed length 20 bytes. The extensions are of variable lengths
 Pointed to by : JSWA.... field of the JSWA data area
 LCTSSOBA field of the LCT data area
 Serialization : None
 Function : Parameter list for the subsystem interface.
 (NOTE : See the extensions for further information).

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SSOB SSOBEGIN	"x"
0	(0) CHARACTER	4	SSOBID	CONTROL BLOCK IDENTIFIER
4	(4) ADDRESS	2	SSOBLN	LENGTH OF SSOB HEADER
6	(6) SIGNED	2	SSOBFUNC	FUNCTION ID
8	(8) ADDRESS	4	SSOBSSIB	ADDRESS OF SSIB OR ZERO
12	(C) SIGNED	4	SSOBRETN	RETURN CODE FROM SUBSYSTEM

THE FOLLOWING RETURN CODES WILL BE RETURNED IN REGISTER 15
 TO THE ISSUER OF THE IEFSSREQ MACRO
 SSOBRETN CONTAINS FUNCTION-RELATED RETURN CODES
 (DEFINED IN EACH FUNCTION EXTENSION)

.... ..	SSRTOK	"0" SUCCESSFUL COMPLETION REQUEST WENT TO A SUBSYSTEM.
.... .1..	SSRTNSUP	"4" SUBSYSTEM DOES NOT SUPPORT THIS FUNCTION
.... 1...	SSRTNTUP	"8" SUBSYSTEM EXISTS, BUT IS NOT UP

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....	11..		SSRTNOSS	"12" SUBSYSTEM DOES NOT EXIST
...1	....		SSRTDIST	"16" FUNCTION NOT COMPLETED-DISASTROUS ERROR
...1	.1..		SSRTLERR	"20" LOGICAL ERROR (BAD SSOB FORMAT, INCORRECT LENGTH,...)
16	(10) SIGNED		4 SSOBINDV	FUNCTION DEPENDENT AREA POINTER
	...1 .1..		SSOBHSIZ	"*-SSOBEGIN" SSOB HEADER LENGTH

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SSRB

Common Name : Suspended Service Request Block
Macro ID : IHASSRB
DSECT Name : SSRBSECT
Created by : Program FLIH and lock manager when an SRB is to be suspended
Subpool and Key : 245 and key 0
Size : 944 bytes
Pointed to by : SPL or service management queues
Serialization : SRBFLNK - Compare & Swap; all others - owner-serialized
Function : Used to save PSW, registers and FRR stack when an SRB has to be suspended for a page fault or locking purposes.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SRBSECT	
0	(0) ADDRESS	4	SRB	
0	(0) CHARACTER	4	SRBID	EBCDIC ACRONYM FOR SRB OR SSRB.
4	(4) ADDRESS	4	SRBFLNK	FORWARD CHAIN FIELD
8	(8) ADDRESS	4	SRBASC	PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO
12	(C) CHARACTER	8	SRBFLC	SRB AREA MOVED TO LOW CORE
12	(C) BITSTRING	2	SRBCPAFF	CPU AFFINITY MASK
14	(E) SIGNED	2	SRBPASID	PURGEDQ ASID IDENTIFIER
16	(10) ADDRESS	4	SRBPTCB	PURGEDQ TCB IDENTIFIER
20	(14) ADDRESS	4	SRBEP	ENTRY POINT OF ROUTINE
24	(18) ADDRESS	4	SRBRMTR	ADDRESS OF RESOURCE MGR RTN
28	(1C) ADDRESS	4	SRBPARM	USER PARAMETER

SSRB

SSRB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
32	(20) ADDRESS	4	SRBSAVE	SAVE AREA POINTER
36	(24) BITSTRING	1	SRBPKF	PROTECT KEY INDICATION
37	(25) BITSTRING	1	SRBPRIOR	PRIORITY LEVEL INDIC
37	(25) BITSTRING	1	SRBFLGS	SRB OPTION FLAGS
	1...		SRBLLREQ	"X'80'" LOCAL LOCK REQUIRED
	.1..		SRBLLHLD	"X'40'" LOCAL LOCK HELD
	..1.		SRBFRREQ	"X'20'" FRR REQUESTED
	...1		SRBFRRCL	"X'10'" THIS BIT IS OBSOLETE SINCE FRR PARM AREA ALWAYS CLEARED BY DISPATCHER. RETAINED FOR COMPATIBILITY.
	.... 1...		SRBSUSP	"X'08'" SUSPENDED SRB ONLY ON FOR SSRB
	.... .1..		SRBPNONQ	"X'04'" NON QUIESCABLE SRB
	.... ..1.		SRBCMLRQ	"X'02'" SRB REPRESENTS A CML LOCK REQUEST OR LOCAL LOCK REQUEST DELAYED DUE TO A CML REQUEST. IF SRBSUSP=1, THIS SSRB REQUIRES A CML LOCK FOR ITS OWN PROCESSING. IF SRBSUSP=0 AND SRBLLREQ=0, THIS SRB WAS CREATED ON BEHALF OF A TASK REQUIRING A CML LOCK. IF SRBSUSP=0 AND SRBLLREQ=1, THIS DELAYED SRB HAS BEEN RESCHEDULED WITHOUT THE LOCAL LOCK DUE TO A CML LOCK REQUEST.
	.... ...1		SRBRES1	"X'01'" RESERVED.
	.... ....		SRBPSYS	"X'00'" SYSTEM PRIORITY LEVEL
38	(26) BITSTRING	1	SRBHLHI	INDICATION OF SUSPEND LOCKS HELD AT SRB SUSPENSION
39	(27) BITSTRING	1	SRBFLGS1	SRB TYPE FLAGS.
	1...		SRBMAIN	"X'80'" SRB/SSRB MUST BE FREEMAINED.
	.1..		SRBSP245	"X'40'" SRB/SSRB FROM SUBPOOL 245.
	..1.		SRBRES2	"X'20'" RESERVED.
	...1		SRBRES3	"X'10'" RESERVED.
	.... 1...		SRBRES4	"X'08'" RESERVED.
	.... .1..		SRBRES5	"X'04'" RESERVED.
	.... ..1.		SRBRES6	"X'02'" RESERVED.
	.... ...1		SRBRES7	"X'01'" RESERVED.
40	(28) ADDRESS	4	SRBFERRA	FRR ROUTINE ADDRESS
44	(2C) SIGNED	4	SRBEND	END OF SRB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1. 11..		SRBSIZE SSRBSECT	"SRBEND-SRBSECT" SIZE OF SRB "SRBSECT" SET LABEL TO BEGINNING
44	(2C) SIGNED	4		RESERVED
48	(30) FLOATING	8	SSRB	START OF SAVE AREA PORTION
48	(30) CHARACTER	32	SSRBFPRS	FLOATING POINT REG SAVE
48	(30) FLOATING	8	SSRBFPR0	FLOATING POINT REG 0
56	(38) FLOATING	8	SSRBFPR2	FLOATING POINT REG 2
64	(40) FLOATING	8	SSRBFPR4	FLOATING POINT REG 4
72	(48) FLOATING	8	SSRBFPR6	FLOATING POINT REG 6
80	(50) SIGNED	4	SSRBTRAN	PAGE FAULT ADDR(FLIH)
84	(54) SIGNED	4	SSRBRES1	RESERVED.
88	(58) CHARACTER	64	SSRBGPRS	GENERAL REGISTER SAVE
152	(98) FLOATING	8	SSRBCPSW	VALUE OF CURRENT PSW
160	(A0) FLOATING	8	SSRBCPUT	CPU TIMER SAVEAREA
168	(A8) FLOATING	8	SSRBTIME	SRB TIME LIMIT VALUE IF THIS SRB IS BEING TIMED, OTHERWISE ZERO.
176	(B0) ADDRESS	4	SSRBXSB	ADDRESS OF EXTENDED STATUS BLOCK (XSB).
180	(B4) SIGNED	4	SSRBRES2	RESERVED.
184	(B8) CHARACTER	760	SSRBFSSA	FRR STACK SAVEAREA
184	(B8) SIGNED	4	SSRBFRRL	SAVED STACK LENGTH
188	(BC) CHARACTER	756	SSRBFRRS	SAVED FRR STACK

SSRB

SSRB

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
944	(3B0) FLOATING	8	SSRBEND SSRBLEN	END OF SSRB. "SSRBEND-SRBSECT" LENGTH OF SSRB AREA

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SSRQ

Common Name : SSOB Extension for Re-enqueue of a Job
 Macro ID : IEFSSRQ
 DSECT Name : SSRQ
 Created by : IEFSD166
 Subpool and Key : User subpool and key
 Size : 28 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.... 11.1			SSOBRENQ	"13" RE-ENQUEUE FUNCTION ID (SSOBFUNC)
..1. .1..			SSRQPERR	"36" PROGRAM ERROR
....			SSRQBGN	"x"
0	(0) ADDRESS	2	SSRQLEN	RE-ENQUEUE EXTENSION LENGTH
2	(2) SIGNED	2	SSRQRESV	RESERVED
4	(4) SIGNED	2	SSRQSTEP	STEP NUMBER
6	(6) BITSTRING	1	SSRQFLG1	REASON FOR REENQUEUEING FLAGS
1...			SSRQSTRS	"X'80'" STEP RESTART
.1..			SSRQCHRS	"X'40'" CHECKPOINT RESTART
..1.			SSRQCNR5	"X'20'" CONTINUE RESTART
...1			SSRQHOLD	"X'10'" HOLD THE JOB
.... 1111			SSRQRSV1	"X'0F'" RESERVED FLAGS
7	(7) HEX	1	SSRQRSV2	RESERVED
.... 1...			SSRQSIZE	"x-SSRQBGN" RE-ENQUEUE EXTENSION LENGTH
...1 11..			SSOBLN9	"SSOBHSIZ+SSRQSIZE" TOTAL SSOB LENGTH

SSRQ

SSRQ

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SSRR

Common Name : SSOB Extension for Request/Return Job ID
 Macro ID : IEFSSRR
 DSECT Name : SSRR
 Created by : IEEMB803
 Subpool and Key : User subpool and key
 Size : 28 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
...1 .1..			SSOBRQST	"20" REQUEST JOB ID FUNCTION ID(SSOBFUNC)
...1 .1.1			SSOBRTRN	"21" RETURN JOB ID FUNCTION ID(SSOBFUNC)
....			SSRR0K	"0" REQUEST/RETURN SUCCESSFUL
.... .1..			SSRRFAIL	"4" REQUEST/RETURN UNSUCCESSFUL
..1. .1..			SSRRPERR	"36" PROGRAM ERROR
....			SSRRBGN	"x"
0	(0) ADDRESS	2	SSRLEN	R/R EXTENSION LENGTH
2	(2) SIGNED	2	SSRRSV0	RESERVED
4	(4) ADDRESS	4	SSRRSECB	REQUEST JOB ID STOP ECB POINTER
.... 1...			SSRRSIZE	"x-SSRRBGN" R/R EXTENSION LENGTH
...1 11..			SSOBLENE	"SSOBHSIZ+SSRRSIZE"

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SSSI

Common Name : SSOB Extension for Step Initiation
 Macro ID : IEFSSSI
 DSECT Name : SSSI
 Created by : IEFSD162
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
...1	.11.		SSOBNSSI	"22" NOTIFY SUBSYSTEM OF STEP INITIATION FUNCTION ID (SSOBFUNC)
....	....		SSSIBGN	"x" NOTIFY SUBSYSTEM OF STEP INITIATION BEGINNING
0	(0) ADDRESS	2	SSSILEN	NSSI EXTENSION LENGTH
2	(2) SIGNED	2	SSSIRSV0	RESERVED

THE FOLLOWING FIELDS CONTAIN POINTERS TO THE INDICATED DATA,
 NUMBERS IN PARANTHESES INDICATE LENGTH OF AREA POINTED TO.

4	(4) ADDRESS	4	SSSIPSNM	FOR A NORMAL JOB, POINTER TO NAME ON THE 'EXEC PGM=' STATEMENT. (8) FOR A STARTED JOB, POINTER TO THE ID, UNIT TYPE, OR 'STARTING'. (8)
8	(8) ADDRESS	4	SSSIPPSN	FOR A NORMAL JOB, POINTER TO NAME ON THE 'EXEC PROC=' STATEMENT (OR BLANKS). (8) FOR A STARTED JOB, POINTER TO BLANKS. (8)
12	(C) ADDRESS	4	SSSIPSNO	POINTER TO STEP NUMBER (1)
	...1		SSSISIZE	"x-SSSIBGN" EXTENSION LENGTH
	..1. .1..		SSOBLNF	"SSOBHSIZ+SSSISIZE" TOTAL SSOB LENGTH

SSSI

SSSI

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SSSO

Common Name : SSOB Extension for Process SYSOUT Data Sets
 Macro ID : IEFSSSO
 DSECT Name : SSSO
 Created by : IKJCT462
 Subpool and Key : User subpool and key
 Size : 140 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	...1		SSOBSOUT	"1" SYSOUT FUNCTION ID (SSOBFUNC)
....	...1		SSSOCVER	"1" CURRENT VERSION NUMBER OF THIS DATA AREA
....	....		SSSORTOK	"0" EVERYTHING IS OK
....	.1..		SSSOEODS	"4" NO MORE DATA SETS TO SELECT
....	1...		SSSONJOB	"8" JOB NOT FOUND
....	11..		SSSOINVA	"12" INVALID SEARCH ARGUMENTS
...1	....		SSSOUNAV	"16" UNABLE TO PROCESS NOW
...1	.1..		SSSODUPJ	"20" DUPLICATE JOB NAMES
...1	1...		SSSOINVJ	"24" INVALID JOBNAME/JOBID COMBINATION
...1	11..		SSSOIDST	"28" INVALID DESTINATION SPECIFIED
....	....		SSSOBGN	"*"
0	(0) ADDRESS	2	SSSOLEN	SYSOUT EXTENSION LENGTH
2	(2) BITSTRING	1	SSSOUFLG	USER SELECTION OPTIONS CLASS ROUTING AND DISPOSITION FLAGS
1...	....		SSSOSETC	"X'80'" USE SSSOCLAS AS DISPOSITION
.1..	....		SSSODEL	"X'40'" DELETE SELECTED DATA SET
..1.	....		SSSOROUT	"X'20'" REROUTE SELECTED DATA SET TO DESTINATION IN SSSODEST
...1		SSSOHOLD	"X'10'" HOLD ALL SELECTED DATA SETS
....	1...		SSSORLSE	"X'08'" RELEASE ALL SELECTED DATA SETS

EQU X'07' RESERVED FLAGS

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
3	(3) HEX	1	SSSOVER	VERSION NUMBER
4	(4) BITSTRING 1... ..	1	SSSOFLG1 SSSOHLD	DATA SET SELECTION CONTROL FLAGS "X'80'" SELECTION SHOULD INCLUDE HELD SYSOUT DATA SETS
	.1.. ..		SSSOSCLS	"X'40'" USE CLASS
	..1.		SSSODST	"X'20'" USE REMOTE DESTINATION
	...1		SSSOSJBN	"X'10'" USE JOB NAME
	.... 1...		SSSOSJBI	"X'08'" USE JOB ID
	.... .1..		SSSOSPGM	"X'04'" USE USER WRITER PROGRAM NAME
	.... ..1.		SSSOSFRM	"X'02'" USE FORM NUMBER
	.... ....1		SSSORSV2	"X'01'" RESERVED
5	(5) BITSTRING 1... ..	1	SSSOFLG2 SSSOCTRL	CURRENT DATA SET DISPOSITION FLAGS "X'80'" 1 PROCESSING COMPLETED 0 RETURN DATA SET NAME
	.1.. ..		SSSOCHKP	"X'40'" USE SSSORBA TO CHECKPOINT RBA OF CURRENT DATA SET IN CLASS
	..1.		SSSOEXTD	"X'20'" EXTENDED PROCESS SYSOUT REQUEST
	...1 1111		SSSORSV3	"X'1F'" RESERVED FLAGS
6	(6) SIGNED	2	SSSOCOPY	NUMBER OF COPIES
8	(8) CHARACTER	8	SSSOJOBN	JOB NAME
16	(10) CHARACTER	8	SSSOJOB1	JOB ID
24	(18) CHARACTER	1	SSSOCLAS	NAME OF DESTINATION CLASS SPECIFIED VIA THE NEWCLASS PARAMETER
25	(19) CHARACTER	3	SSSORSV5	RESERVED
28	(1C) CHARACTER	8	SSSODEST	REMOTE DESTINATION SPECIFIED VIA THE DEST PARAMETER
36	(24) CHARACTER	8	SSSOPGMN	USER WRITER NAME
44	(2C) CHARACTER	8	SSSORBA	RBA OF SYSOUT DATA SET
52	(34) CHARACTER	44	SSSODSN	SYSOUT DATA SET NAME
96	(60) CHARACTER	4	SSSOFORM	FORM NUMBER

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OFFSETS TYPE LENGTH NAME DESCRIPTION

SSSOCLSL WILL CONTAIN 1-8 CLASSES WHEN USED FOR REROUTING OR DELETE FUNCTIONS AND WILL CONTAIN ONLY ONE CLASS WHEN USED FOR PRINTING.

100	(64) CHARACTER	8	SSSOCLSL	CLASS SELECTION LIST FOR DATA SET SELECTION
108	(6C) ADDRESS	4	SSSOWTRC	A POINTER TO A COMMUNICATION AREA FOR THE USER WRITTEN WRITER
112	(70) CHARACTER	8	SSSODSID	DATA SET ID TO PLACE SYSOUT ON EXTERNAL DEVICES
	.111 1...		SSSOSIZE	"*-SSSOBGN" SYSOUT EXTENSION LENGTH
	1... 11..		SSOBLN1	"SSOBHSIZ+SSSOSIZE" SSOB LENGTH=HEADER + SYSOUT EXTENSION

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SSUS

Common Name : SSOB Extension for Remote Destination Validity Check
 Macro ID : IEFSSUS
 DSECT Name : SSUS
 Created by : IEFDB4A0
 Subpool and Key : User subpool and key
 Size : 36 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1.11			SSOUSER	"11" REMOTE DEST FUNCTION ID (SSOBFUNC)
....			SSUSRTOK	"0" VALID REQUEST
.... .1..			SSUSNOUS	"4" INVALID DESTINATION
.... 1...			SSUSINCP	"8" SUBSYSTEM COULD NOT COMPLETE THE VALIDITY CHECK
....			SSUSBGN	"x"
0	(0) ADDRESS	2	SSUSLEN	REMOTE DESTINATION EXTENSION LENGTH
2	(2) SIGNED	2	SSUSRESV	RESERVED
4	(4) SIGNED	4	SSUSRSV1	RESERVED
8	(8) CHARACTER	8	SSUSUSER	REMOTE DESTINATION TO BE VERIFIED
...1			SSUSIZE	"x-SSUSBGN" REMOTE DESTINATION EXTENSION LENGTH
..1. .1..			SSOBLN8	"SSOBHSIZ+SSUSIZE" TOTAL SSOB LENGTH

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SSVS

Common Name : SSOB Extension for Subsystem Verification
 Macro ID : IEFSSVS
 DSECT Name : SSVS
 Created by : IEESB605
 Subpool and Key : User subpool and key
 Size : 40 bytes
 Pointed to by : SSOBINDV field of the SSOB data area
 Serialization : None
 Function : Parameter list for the subsystem interface.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1111			SSOBVERS	"15" FUNCTION ID (SSOBFUNC)
....			SSVSSNAM	"0" SSIB CONTAINS A SUBSYSTEM NAME, FIELD SSVSSCTP IS SET, AND (1) IF SSVSSTRT IS OFF, BIT SSVSUPSS IS SET OR (2) IF SSVSSTRT IS ON, THE SUBSYSTEM IS ACTIVE AND SUPPORTS JOB SELECTION
.... .1..			SSVSJBNM	"4" NAME IS NOT NAME OF A SUBSYSTEM
.... 1...			SSVSNACT	"8" SUBSYSTEM IS NOT ACTIVE (VALID ONLY IF SSVSSTRT IS ON)
.... 11..			SSVSNSEL	"12" SUBSYSTEM DOES NOT SUPPORT JOB SELECTION (VALID ONLY IF SSVSSTRT IS ON
....			SSVSBGN	"*"
0	(0) ADDRESS	2	SSVSLLEN	VS EXTENSION LENGTH
2	(2) BITSTRING	1	SSVSFLG1	FLAG BYTE
1...			SSVSUPSS	"X'80'" SET BY MASTER SUBSYSTEM TO INDICATE THAT THE SPECIFIED SUBSYSTEM REQUIRES THE USE OF THE PRIMARY SUBSYSTEM'S SERVICES (E.G. SYSOUT)
.1..			SSVSSTRT	"X'40'" TEST NAME IN SSIBJBID FOR ACTIVE SUBSYSTEM THAT SUPPORTS INTERNAL READER DATASETS
3	(3) BITSTRING	1	SSVSFLG2	RESERVED FLAG BYTE
4	(4) ADDRESS	4	SSVSSCTP	PTR TO SSCT OF THE SPECIFIED SUBSYSTEM-RETURNED BY THE MASTER SUBSYSTEM

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
 1...		SSVSSIZS	"*-SSVSBGN" SHORT FORM LENGTH
	.... 1...		SSVSADD	"*" ADD ON TO VS EXTENSION
8	(8) SIGNED	2	SSVSNUM	POSITION OF SUBSYSTEM ON SSCVT CHAIN
10	(A) SIGNED	2	SSVSRES1	RESERVED
12	(C) SIGNED	4	SSVSRES2	RESERVED
16	(10) SIGNED	4	SSVSRES3	RESERVED
	...1 .1..		SSVSSIZE	"*-SSVSBGN" LONG FORM LENGTH
	..1. 1...		SSOBLN1A	"SSOBHSIZ+SSVSSIZE" TOTAL SSOB LENGTH

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SSVT

Common Name : Subsystem Vector Table
 Macro ID : IEFJSSVT
 DSECT Name : SSVT
 Created by : Subsystem owning the SSVT, at initialization of subsystem
 Subpool and Key : Any - determined by subsystem
 Size : 364 bytes
 Pointed to by : SSCTSSVT field of the SSCVT data area
 Serialization : None
 Function : Contains the indications of functions of a subsystem and the addresses of the routines that perform those functions.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	260	SSVT	
0	(0) CHARACTER	260	SSVTFSIZ	SSVT FIXED AREA SIZE
0	(0) CHARACTER	2	SSVTRSV1	RESERVED
2	(2) SIGNED	2	SSVTFNUM	NUMBER OF FUNCTIONS SUPPORTED BY THIS SUBSYSTEM

256 BYTE FUNCTION MATRIX
 THE SSOB FUNCTION ID IS USED AS A SUBSCRIPT INTO THIS MATRIX
 MATRIX FUNCTION BYTE =0 : THE FUNCTION SPECIFIED IN THE
 SSOB IS NOT SUPPORTED BY THIS
 SUBSYSTEM.
 MATRIX FUNCTION BYTE ~0 : THE VALUE IN THE FUNCTION BYTE
 IS USED AS A SUBSCRIPT INTO
 SSVTFRTN TO OBTAIN THE
 ADDRESS OF THE WORD
 CONTAINING THE FUNCTION ROUTINE
 POINTER FOR THIS REQUEST

4	(4) ADDRESS	256	SSVTFCOD	FUNCTION MATRIX
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OFFSETS TYPE LENGTH NAME DESCRIPTION

SSVTFRTN IS THE FIRST WORD OF A VARIABLE LENGHT MATRIX CONTAINING
FUNCTION ROUTINE POINTERS FOR FUNCTIONS SUPPORTED BY THIS
SUBSYSTEM. THE MATRIX CAN BE A MAXIMUM OF 256 WORDS LONG.

260 (104) ADDRESS 0 SSVTFRTN FUNCTION POINTER

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SSWA

Common Name : Subsystem Scheduler Work Area
 Macro ID : IEFJSSWA
 DSECT Name : SSWA
 Created by : IEFVDA, IEFDB414
 Subpool and Key : SWA (Subpool 236 or 237) and key 1
 Size : Variable length
 Pointed to by : SIOTSSWA field of the SIOT data area
 SSAGSSWA field of the SSARB data area
 Serialization : None
 Function : Contains the data coded as part of a SUBSYS DD card
 or its dynamic allocation equivalent.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	9	SSWA	SUBSYSTEM SCHEDULER WORK AREA
0	(0) CHARACTER	8	SSWAHDR	FIXED LENGTH HEADER
0	(0) SIGNED	2	SSWATYPE	TYPE FIELD
2	(2) CHARACTER	4	SSWASSNM	SUBSYSTEM NAME
6	(6) SIGNED	2	SSWAPRNO	NO OF LEN-PARM PAIRS
8	(8) CHARACTER	1	SSWAPREN	FIRST LEN-PARM ENTRY
8	(8) UNSIGNED	1	SSWAPLEN	LENGTH OF FIRST (OR ONLY) PARAMETER
9	(9) CHARACTER	0	SSWAPVAL	VALUE OF FIRST (OR ONLY) PARAMETER
0	(0) STRUCTURE	1	SSWAIFLD	INDIVIDUAL LEN-PARM PAIR MAP
0	(0) UNSIGNED	1	SSWAILEN	LEN OF PARM ITEM
1	(1) CHARACTER	0	SSWAIPRM	VALUE OF PARM ITEM

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SSWT

Common Name : SSOB Extension for Write to Operator
Macro ID : IEFSSWT
DSECT Name : SSWT
Created by : IEAVSWCH, IEAVVWTO, IEAVMWTO, IEEMB804
Subpool and Key : User subpool and key
Size : 16 bytes
Pointed to by : SSOBINDV field of the SSOB data area
Serialization : None
Function : Parameter list for the subsystem interface.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1..1			SSOBWTO	"9" WTO FUNCTION ID (SSOBFUNC)
..1. ...1			SSOBCONS	"33" CONSOLE STATUS FUNCTION ID
..1. ...1.			SSOBWTL	"34" WTL FUNCTION ID
....			SSWTRTOK	"0" FUNCTION 9: CONTINUE NORMAL WTO PRO- CESSING AND HARDCOPY THE MESSAGE FUNC- TION 34: CONTINUE NORMAL WTO PROCESSING
.... .1..			SSWTNDSP	"4" FUNCTION 9: DO NOT DISPLAY THE WTO, BUT MCS SHOULD HARDCOPY IT FUNCTION 34: BYPASS WTO PROCESSING
.... 1...			SSWTOKNH	"8" FUNCTION 9: DISPLAY THE WTO AND DO NOT HARDCOPY IT
.... 11..			SSWTNDNH	"12" FUNCTION 9: DO NOT DISPLAY THE WTO AND DO NOT HARDCOPY IT
....			SSWTBGN	"x"
0	(0) ADDRESS	2	SSWTLEN	WTO EXTENSION LENGTH
2	(2) BITSTRING	1	SSWTFLG1	FIRST GENERAL FLAG AREA
1...			SSWTSPB1	"X'80'" FOR USE BY THE PRIMARY SUBSYSTEM (REPLACES WQEMCSK AND WMJMCS2C BITS OF THE WQE)
3	(3) ADDRESS	1	SSWTVRSN	VERSION LEVEL
.... ...1			SSWT132	"1" VERSION LEVEL FOR OS/VS2 JBB1328
.... ...1			SSWTVRID	"SSWT132" VERSION LEVEL VALUE

SSWT

SSWT

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OFFSETS TYPE LENGTH NAME DESCRIPTION

FOLLOWING WTO SUBSYSTEM INTERFACES MAY EXIST
 SINGLE WTO OR FIRST LINE OF MULTI-LINE WTO:
 SSWTMIN, SSWTOR ARE 0
 SECOND TO N-TH LINE OF MULTI-LINE WTO:
 SSWTOR IS 0
 WTOR:
 SSWTMIN IS 0

4	(4) ADDRESS	4	SSWTWQE	WQE ADDRESS (MAJOR)
8	(8) ADDRESS	4	SSWTMIN	MINOR WQE ADDRESS
12	(C) ADDRESS ...11. .1..	4	SSWTOR SSWTSIZE SSOBLN6	OPERATOR REPLY ELEMENT ADDRESS "X-SSWTBGN" WTO EXTENSION LENGTH "SSOBHSIZ+SSWTSIZE" TOTAL SSOB LENGTH

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STKE

Common Name : PCLINK Stack Element

Macro ID : IHASTKE

DSECT Name : STKX, STKE

Created by : IEAVXSTK

Subpool and Key : For local pools: 255 and key 0; for global pool: 239 and key 0

Size : STKX: 8 bytes; STKE: 72 bytes

Pointed to by : PSASTKE, XSBSTKE, STKHAEP, STKEPREV. When the STKE is on the free queue, the origin is STKHAEP and the link field is STKEPREV. When the STKE is in use, the origin is PSASTKE or XSBSKE and the link field is STKEPREV.

Serialization : A STKE is obtained from the free queue via the CML lock. Local pool expansion is serialized via the CML lock. Global pool expansion is serialized via the SALLOC lock.

Function : Maps the local and global PCLINK stack elements, which form the control blocks for the PCLINK STACK/UNSTACK/EXTRACT services.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	STKX	PREFIX TO STACK ELEMENT POOL EXTENT
0	(0) SIGNED	4	STKXTNT	POINTER TO PREVIOUS STKX OR 0
4	(4) SIGNED	4	STKXSPAL	
4	(4) HEX	1	STKXSPID	SUBPOOL OF THIS EXTENT
5	(5) SIGNED 1...	3	STKXPLEN STKXLEN	SIZE OBTAINED FOR THIS EXTENT "*-STKX" LENGTH OF STKX
0	(0) STRUCTURE	0	STKE	BEGINNING OF STACK ELEMENT
0	(0) CHARACTER	4	STKESTKE	STKE ACRONYM
4	(4) ADDRESS	4	STKEHEAD	ADDRESS OF POOL HEADER

STKE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
8	(8) FLOATING	8	STKEINFO	STACK INFORMATION FOR PREVIOUS STKE (PSASTKE OR XSBSTKE HAS THE CORRESPOND- ING INFORMATION FOR THE TOP STKE FOR AN RB OR SRB.)
8	(8) SIGNED	2	STKEPTKN	TOKEN OF PRIOR ELEMENT
10	(A) SIGNED	2	STKEPASD	ASID OF PRIOR ELEMENT
12	(C) ADDRESS	4	STKEPREV	ADDRESS OF PRIOR ELEMENT (IF IN USE) OR NEXT FREE ELEMENT (IF NOT IN USE)
16	(10) CHARACTER	1	STKEPGMM	PROGRAM MASK FROM CALLER'S PSW
17	(11) CHARACTER	1	STKERSV1	RESERVED
18	(12) SIGNED	2	STKEASID	ASID OF POOL
20	(14) ADDRESS	4	STKESA	PREVIOUS SAVE AREA
24	(18) ADDRESS	4	STKERET	RETURN ADDRESS
28	(1C) SIGNED	4	STKEPR15	PARAMETER REGISTER 15
32	(20) SIGNED	4	STKEPRM0	PARAMETER REGISTER 0
36	(24) SIGNED	4	STKEPRM1	PARAMETER REGISTER 1
40	(28) SIGNED	4	STKEKEY	
40	(28) CHARACTER	3	STKERE2	BITS 8-31 OF CALLER'S REG 2
43	(2B) CHARACTER	1	STKEKEY2	CALLER'S PSW KEY IN BITS 0-3
44	(2C) BITSTRING	2	STKEKMSK	CALLER'S PSW KEY MASK (PKM)
46	(2E) SIGNED	2	STKECASD	PASID OF CALLER
48	(30) ADDRESS	4	STKELPTR	LATENT PARAMETER POINTER
52	(34) ADDRESS	4	STKEEPA	ENTRY POINT ADDRESS
56	(38) FLOATING ..11 1...	8	STKEEND STKELEN	END OF STKE "STKEEND-STKE" LENGTH OF STACK ELEMENT

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SVCTABLE

Common Name : SVC Table Entry
Macro ID : IHASVC
DSECT Name : SVC
Created by : SYSGEN
Subpool and Key : NUCLEUS and key 0
Size : 8 bytes per entry
Pointed to by : SCVTSVCT field of the SCVT data area
Serialization : None
Function : Each entry contains information for a particular SVC function--the SVC entry point address, type, APF authorized, and locks needed before the module can be executed.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SVCENTRY	
0	(0) ADDRESS	4	SVCEP	SVC ENTRY POINT ADDRESS
4	(4) SIGNED	2	SVCATTR1	ATTRIBUTES
4	(4) BITSTRING	1	SVCTP	TYPE FIELD
	.... ....		SVCTP1	"X'00'" TYPE 1 SVC
	1...		SVCTP2	"X'80'" TYPE 2 SVC
	11..		SVCTP34	"X'C0'" TYPE 3 OR 4 SVC
	..1.		SVCTP6	"X'20'" TYPE 6 SVC
	.... 1..		SVCAPF	"X'08'" APF AUTHORIZED 1-AUTHORIZED
	.... .1..		SVCESR	"X'04'" SVC IS A PART OF THE ESR
	.... ..1.		SVCNP	"X'02'" NON-PREEMPTIVE SVC
	.... ...1		SVCASF	"X'01'" SVC CAN BE ASSISTED
5	(5) BITSTRING	1	SVCRESV1	RESERVED BYTE
6	(6) SIGNED	2	SVCLOCKS	LOCK ATTRIBUTES
	1...		SVCLL	"X'80'" LOCAL LOCK NEEDED
	.1..		SVCCMS	"X'40'" CMS LOCK NEEDED
	..1.		SVCOPT	"X'20'" OPT LOCK NEEDED
	...1		SVCALLOC	"X'10'" SALLOC LOCK NEEDED
 1...		SVCDISP	"X'08'" DISP LOCK NEEDED

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SVT

Common Name : Supervisor Vector Table
 Macro ID : IHASVT
 DSECT Name : SVT
 Created by : IEAVESVT
 Subpool and Key : Nucleus
 Size : 400 bytes
 Pointed to by : PSASVT field of the PSA data area
 CVTSVT field of the CVT data area
 Serialization : SVTDSREQ - Dispatcher lock; SVTGSMQ, GSPL, LSMQ, SVTWAS -
 Compare & Swap; SVTDACTV - Disablement; SVTWAIT - Disablement
 Function : Contains address of routine and control blocks used by
 Supervisor Control.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	SVT	
0	(0) V-ADDRESS	4	SVTISECT	"V(IEAVEINT)" ADDRESS OF INTERSECT ROUTINE
4	(4) V-ADDRESS	4	SVTGSCH1	"V(IEAVESC3)" ADDRESS OF GLOBAL SCHEDULE ROUTINE FOR ENABLED USERS
8	(8) V-ADDRESS	4	SVTGSCH2	"V(IEAVESC4)" ADDRESS OF GLOBAL SCHEDULE ROUTINE FOR DISABLED USERS
12	(C) V-ADDRESS	4	SVTMSSEEP	"V(IEAVEMS2)" ADDRESS OF MEMORY SWITCH FOR ENABLED USERS
16	(10) V-ADDRESS	4	SVTMSDEP	"V(IEAVEMS0)" ADDRESS OF MEMORY SWITCH FOR DISABLED USERS
20	(14) V-ADDRESS	4	SVTRSCS	"V(IEAVRSCS)" RESUME CONDITIONAL ENTRY PT
24	(18) SIGNED	4	SVTJSTEQ	JOB STEP TIME EXCEEDED QUE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
28	(1C) SIGNED	4	SVTDSREQ	DISPATCHER SERIALIZATION REQUIRED
28	(1C) HEX	1	SVTSRQ1	FIRST BYTE OF SVTDSREQ
	1... ..		SVTDSG4	"X'80'" SIGNAL WAITING PROCESSORS
	.1.. ..		SVTDFLT	"X'40'" DEFAULT GLOBAL INTERSECT
29	(1D) HEX	1	SVTSRQ2	SECOND BYTE OF SVTDSREQ
	1... ..		SVTDSG3	"X'80'" SIGNAL WAITING PROCESSORS
	.... .1.		SVTSRM1	"X'02'" SRM IS INTERSECTING
	.... ...1		SVTQVER	"X'01'" Q VERIFICATION INTERSECTING
30	(1E) HEX	1	SVTSRQ3	THIRD BYTE OF SVTDSREQ
	1... ..		SVTDSG2	"X'80'" SIGNAL WAITING PROCESSORS
	.1.. ..		SVTRCTI	"X'40'" RCT INTERSECTING
	.1.		SVTTCBV	"X'20'" TCB VERIFICATION INTERSECTING
	...1		SVTACHA	"X'10'" ASCB CHAP INTERSECTING
	.... .1..		SVTMTER	"X'04'" MEMTERM INTERSECTING
	.... .1.		SVTMINI	"X'02'" MEMORY INIT INTERSECTING
	.... ...1		SVTCBVE	"X'01'" CONTROL BLOCK VERIFICATION INTER
31	(1F) HEX	1	SVTSRQ4	FOURTH BYTE OF SVTDSREQ
	1... ..		SVTDSG1	"X'80'" SIGNAL WAITING WAITING PROCESSORS
	.1.. ..		SVTDETA	"X'40'" DETACH INTERSECTING
	.1.		SVTATTA	"X'20'" ATTACH INTERSECTING
	...1		SVTRTM2	"X'10'" RTM2 INTERSECTING
	.... 1...		SVTRTM1	"X'08'" RTM1 INTERSECTING
	.... .1..		SVTCHAP	"X'04'" TCB CHAP INTERSECTING
	.... .1.		SVTSTAT	"X'02'" STATUS INTERSECTING
	.... ...1		SVTPURD	"X'01'" PURGE DQ INTERSECTING
32	(20) FLOATING	8	SVTGSRB	GLOBAL SRB QUEUES
32	(20) SIGNED	4	SVTGSMQ	GLOBAL SERVICE MANAGEMENT QUEUE
36	(24) SIGNED	4	SVTGSPL	GLOBAL SERVICE PRIORITY LIST
40	(28) SIGNED	4	SVTLSMQ	GLOBAL SERVICE PRIORITY LIST
44	(2C) SIGNED	4	SVTWAS	WAIT ADDRESS SPACE VECTOR USED TO SIGP MEMORY SWITCH TO WAITING PROCESSOR
44	(2C) SIGNED	4	SVTWAS00(16)	WASV

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
108	(6C) SIGNED	4		
108	(6C) HEX	4	SVTR06C	PREVIOUSLY SVTDACTV MUST REMAIN NON-ZERO
112	(70) HEX	12	SVTR070	RESERVED.
124	(7C) SIGNED	4		
124	(7C) HEX	4	SVTR07C	PREVIOUSLY SVTPWAIT MUST REMAIN NON-ZERO
128	(80) HEX	12	SVTR080	RESERVED.
140	(8C) V-ADDRESS	4	SVTISECR	"V(IEAVEINR)" INTERSECT RESET ROUTINE
144	(90) SIGNED	4	SVTXASCB	ADDRESS OF PC/AUTH ASCB.
148	(94) SIGNED	4	SVTXMD	ADDRESS OF CROSS MEMORY DIRECTORY (XMD) (IN PC/AUTH ADDRESS SPACE).
152	(98) V-ADDRESS	4	SVTGSPH	"V(IEASTKH)" ADDRESS OF GLOBAL STACK POOL HEADER FOR PCLINK SERVICE.
156	(9C) V-ADDRESS	4	SVTXEPM	"V(IEAVXEPM)" ADDRESS OF THE ENTRY POINT MODULE WHICH CONTAINS PROGRAM NAMES AND NUCLEUS ENTRY POINT ADDRESSES USED BY XM SERVICES.
160	(A0) V-ADDRESS	4	SVTBBR	"V(IEAVEBBR)" ADDRESS OF THE BIND BREAK ROUTINE.
164	(A4) V-ADDRESS	4	SVTLASCB	"V(IEAVLACB)" ADDRESS OF LOCASCB SERVICE ROUTINE.
168	(A8) HEX	4	SVTCMCKM	CMSET CONSTANT FOR ICMA CHECK.
172	(AC) V-ADDRESS	4	SVTCMST1	"V(IEAVCMS1)" ADDRESS OF CMSET SET ROU- TINE.
176	(B0) V-ADDRESS	4	SVTCMRT1	"V(IEAVCMR1)" ADDRESS OF CMSET RESET, CHKAUTH=YES ROUTINE.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
180	(B4) V-ADDRESS	4	SVTCMRT2	"V(IEAVCMR2)" ADDRESS OF CMSET RESET, CHKAUTH=NO ROUTINE.
184	(B8) V-ADDRESS	4	SVTCMSTR	"V(IEAVCMST)" ADDRESS OF CMSET SSARTO ROUTINE.
188	(BC) V-ADDRESS	4	SVTCMSBR	"V(IEAVCMSB)" ADDRESS OF CMSET SSARBACK ROUTINE.
192	(C0) V-ADDRESS	4	SVTCDSPE	"V(IEAVCDEN)" ADDRESS OF CALLDISP ROUTINE FOR ENABLED CALLERS.
196	(C4) V-ADDRESS	4	SVTCDSPD	"V(IEAVCDDS)" ADDRESS OF CALLDISP ROUTINE FOR DISABLED CALLERS.
200	(C8) V-ADDRESS	4	SVTSRBSV	"V(IEAVESTS)" ADDRESS OF SRBSTAT SAVE ROUTINE.
204	(CC) V-ADDRESS	4	SVTSRBRS	"V(IEAVESTR)" ADDRESS OF SRBSTAT RESTORE ROUTINE.
208	(D0) V-ADDRESS	4	SVTAFFST	"V(IEAVESAS)" ADDRESS OF SSAFF SET ROUTINE.
212	(D4) V-ADDRESS	4	SVTAFFOB	"V(IEAVESAF)" ADDRESS OF SSAFF OBTAIN ROUTINE.
216	(D8) V-ADDRESS	4	SVTSRBG	"V(IEAVSPM1)" ADDRESS OF GETSRB ROUTINE.
220	(DC) V-ADDRESS	4	SVTSSRBG	"V(IEAVSPM2)" ADDRESS OF GETSSRB ROUTINE.
224	(E0) V-ADDRESS	4	SVTSRBF	"V(IEAVSPM3)" ADDRESS OF FREESRB ROUTINE.
228	(E4) V-ADDRESS	4	SVTSSRBF	"V(IEAVSPM4)" ADDRESS OF FREESSRB ROUTINE.
232	(E8) FLOATING	8	SVTSRBP	SUPERVISOR SRB POOL HEADER. SERIALIZATION CDS.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
232	(E8) SIGNED	4	SVTSRBS	SRB POOL ELEMENT SYNC COUNT
236	(EC) SIGNED	4	SVTSRBA	ADDRESS OF FIRST AVAILABLE SRB.
240	(F0) SIGNED	4	SVTSRBE	SRB POOL EXTENT COUNTS. SERIALIZATION SALLOC.
240	(F0) SIGNED	2	SVTSRBM	MAX SRB POOL EXTENTS.
242	(F2) SIGNED	2	SVTSRBC	CURRENT SRB POOL EXTENTS.
244	(F4) SIGNED	4	SVTSSRBE	SSRB POOL EXTENT COUNTS. SERIALIZATION SALLOC.
244	(F4) SIGNED	2	SVTSSRBM	MAX SSRB POOL EXTENTS.
246	(F6) SIGNED	2	SVTSSRBC	CURRENT SSRB POOL EXTENTS.
248	(F8) FLOATING	8	SVTSSRBP	SUPERVISOR SSRB POOL HEADER. SERIALIZATION CDS.
248	(F8) SIGNED	4	SVTSSRBS	SSRB POOL ELEMENT SYNC CNT
252	(FC) SIGNED	4	SVTSSRBA	ADDRESS OF FIRST AVAILABLE SSRB.
256	(100) CHARACTER	4	SVTSVT	SVT ACRONYM.
260	(104) V-ADDRESS	4	SVTRSUA	"V(IEAVRSUA)" ADDRESS OF RESUME ROUTINE FOR ASYNCHRONOUS UNCONDITIONAL OPTION.
264	(108) V-ADDRESS	4	SVTRSCA	"V(IEAVRSCA)" ADDRESS OF RESUME ROUTINE FOR ASYNCHRONOUS CONDITIONAL OPTION.
268	(10C) V-ADDRESS	4	SVTRSUS	"V(IEAVRSUS)" ADDRESS OF RESUME ROUTINE FOR SYNCHRONOUS UNCONDITIONAL OPTION WITH ASCB SPECIFIED.
272	(110) V-ADDRESS	4	SVTSUSQ	"V(IEAVSUSQ)" ADDRESS OF SUPERVISOR STOP ROUTINE.
276	(114) V-ADDRESS	4	SVTRSTD	"V(IEAVRSTD)" ADDRESS OF SUPERVISOR RESET ROUTINE.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
280	(118) SIGNED	4	SVTFW1	FULLWORD SERIALIZED BY CS.
280	(118) HEX 1... ..	1	SVTCS1	FIRST BYTE OF CS WORD.
	.1... ..		SVTXMSOP	"X'80'" PC/AUTH SERVICE ROUTINES OPERABLE.
			SVTXMSUP	"X'40'" PC/AUTH ADDRESS SPACE INITIALIZED.
281	(119) HEX	3	SVTCS2	RESERVED LAST 3 BYTES OF SVTCS1. SERIALIZATION CS.
284	(11C) V-ADDRESS	4	SVTDSPC	"V(IEAVDSPC)" ADDRESS OF DISPATCHER ENTRY POINT FOR STOP ROUTINE CALLERS.
288	(120) SIGNED	4	SVTAFTR	VIRTUAL ADDRESS OF ADDRESS SPACE FIRST TABLE (AFT) CONTAINING REAL ADDRESSES.
292	(124) SIGNED	4	SVTAFTV	VIRTUAL ADDRESS OF ADDRESS SPACE FIRST TABLE (AFT) CONTAINING VIRTUAL ADDRESSES.
296	(128) V-ADDRESS	4	SVTSSEM	"V(IEAVESSE)" ADDRESS OF SPACE SWITCH EVENT MANAGER.
300	(12C) V-ADDRESS	4	SVTISSAT	"V(IEAISSAT)" ADDRESS OF INITIAL SUBSYSTEM AFFINITY TABLE FOR ALL TASKS.
304	(130) SIGNED	4	SVTSSTSV	LENGTH REQUIRED FOR SRB STATUS SAVE AREA. CONSTANT USED BY SRBSTAT CALLERS. MODULE IEAVESTS MAPS AREA FOR STATUS SAVING.
308	(134) V-ADDRESS	4	SVTTRCO	"V(IEAVTRCO)" ADDRESS OF SYSTEM TRACE ON/OFF ROUTINE.
312	(138) SIGNED	4	SVTMDLQ	MEMORY DELETE QUEUE HEADER FOR ASCBS THAT CANNOT BE FREED.
316	(13C) SIGNED	4	SVTSLWLN	SLIP/PER WORK AREA LENGTH REQUIRED FOR EACH PROCESSOR

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
320	(140) V-ADDRESS	4	SVTSRBMD	"V(IEAVESTM)" ADDRESS OF SRBSTAT MODIFY ROUTINE.
324	(144) HEX	2	SVTR144	RESERVED.
326	(146) SIGNED	2	SVTNSLX	NUMBER OF SYSTEM LXS BEYOND THE HIGHEST SYSTEM FUNCTION TABLE LX.
328	(148) V-ADDRESS	4	SVTSET1	"V(IEAVSET1)" ADDRESS OF STATUS ENTRY POINT TO SIGPCPUS ROUTINE.
332	(14C) V-ADDRESS	4	SVTEXP2	"V(IEAVEXP2)" ADDRESS OF ENTRY POINT INTO EXIT PROLOG FOR MVSA ASSISTED TYPE 1 SVCS. USED BY IEAVNPS5 TO INITIALIZE THE MPL WHEN THE CROSS MEMORY MICROCODE IS AVAILABLE.
336	(150) HEX	16	SVTR150	RESERVED.
352	(160) SIGNED	4		ALIGN SVTDACTV TO FULL WORD
352	(160) HEX 1... ..	1	SVTDACTV(16) SVTDRECM SVTDACT1	DISPATCHER ACTIVE INDICATORS "X'80'" DISPATCHER IN RECURSIVE MODE "SVTDACTV,16,C'X'" REDEFINE SVTDACTV TO 16 BYTES
368	(170) SIGNED	4		ALIGN SVTPWAIT TO FULL WORD
368	(170) HEX	1	SVTPWAIT(16) SVTPWAT1	PROCESSOR WAITING INDICATORS "SVTPWAIT,16,C'X'" REDEFINE SVTPWAIT TO 16 BYTES
384	(180) SIGNED	4	SVTHAXP	SKEWING THRESHOLD VALUE SUPPLIED BY SRM OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: WRITE-SRM LOCK READ-DISABLEMENT
388	(184) SIGNED	4	SVTAXPRM	NUMBER OF TIMES WORK THAT IS MARKED AS LESS EFFICIENT FOR AN AXP IS DISPATCHED ON AN AXP WHEN DISPATCHER IS IN RECURSIVE RECURSIVE MODE. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: CS

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
392	(188) V-ADDRESS	4	SVTMSEP4	"V(IEAVEMS4)" ENABLED MEMORY SWITCH USING REGISTER 0 INTERFACE ENTRY POINT IEAVEMS4. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: N/A
396	(18C) V-ADDRESS	4	SVTMSEP5	"V(IEAVEMS5)" DISABLED MEMORY SWITCH USING REGISTER 0 INTERFACE ENTRY POINT IEAVEMS5. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: N/A
400	(190) FLOATING	8	SVTEND	END OF SVT.

END OF SVT

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SVT	0		SVTGSPPH	98		SVTSRBA	EC	
SVTACHA	1E	10	SVTGSPL	24		SVTSRBC	F2	
SVTAFFOB	D4		SVTGSRB	20		SVTSRBE	F0	
SVTAFFST	D0		SVTHAXP	180		SVTSRBF	E0	
SVTAFTR	120		SVTISECR	8C		SVTSRBG	D8	
SVTAFTV	124		SVTISECT	0		SVTSRBM	F0	
SVTATTA	1F	20	SVTISSAT	12C		SVTSRBM D	140	
SVTAXPRM	184		SVTJSTEQ	18		SVTSRBP	E8	
SVTBRR	A0		SVTLASCB	A4		SVTSRBRS	CC	
SVTCBVE	1E	01	SVTLSMQ	28		SVTSRBS	E8	
SVTCDSPD	C4		SVTMDLQ	138		SVTSRBSV	C8	
SVTCDSPE	C0		SVTMINI	1E	02	SVTSRM1	1D	02
SVTCHAP	1F	04	SVTMSDEP	10		SVTSRQ1	1C	
SVTCMCKM	A8		SVTMSEEP	C		SVTSRQ2	1D	
SVTCMRT1	B0		SVTMSEP4	188		SVTSRQ3	1E	
SVTCMRT2	B4		SVTMSEP5	18C		SVTSRQ4	1F	
SVTCMSBR	BC		SVTMTER	1E	04	SVTSSEM	128	
SVTCMSTR	B8		SVTNSLX	146		SVTSSRBA	FC	
SVTCMST1	AC		SVTPURD	1F	01	SVTSSRBC	F6	
SVTCS1	118		SVTPWAIT	170		SVTSSRBE	F4	
SVTCS2	119		SVTPWAT1	170	0170	SVTSSRBF	E4	
SVTDACTV	160		SVTQVER	1D	01	SVTSSRBG	DC	
SVTDACT1	160	0160	SVTRCTI	1E	40	SVTSSRBM	F4	
SVTDETA	1F	40	SVTRSCA	108		SVTSSRBP	F8	
SVTDFLT	1C	40	SVTRSCS	14		SVTSSRBS	F8	
SVTDRECM	160	80	SVTRSTD	114		SVTSSTSV	130	
SVTDSG1	1F	80	SVTRSUA	104		SVTSTAT	1F	02
SVTDSG2	1E	80	SVTRSUS	10C		SVTSUSQ	110	
SVTDSG3	1D	80	SVTRTM1	1F	08	SVTSVT	100	
SVTDSG4	1C	80	SVTRTM2	1F	10	SVTTCBV	1E	20
SVTDSPC	11C		SVTR06C	6C		SVTTRCO	134	
SVTDSREQ	1C		SVTR07C	7C		SVTWAS	2C	
SVTEND	190		SVTR070	70		SVTWAS00	2C	
SVTEXP2	14C		SVTR080	80		SVTXASCB	90	
SVTFW1	118		SVTR144	144		SVTXEPM	9C	
SVTGSC1	4		SVTR150	150		SVTXMD	94	
SVTGSC2	8		SVTSET1	148		SVTXMSOP	118	80
SVTGSMQ	20		SVTSLWLN	13C		SVTXMSUP	118	40

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SWB

Common Name : Scheduler Work Block
 Macro ID : IEFSWB
 DSECT Name : SWB
 Created by : IEFSJBLD and IEFJSWRT
 Subpool and Key : 236 or 237 and key 1
 Size : 192 bytes
 Pointed to by : JCTXSWB field of the JCTX data area,
 SCTCSWB field of the SCT data area, and the
 SIOTSWB field of the SIOT data area.
 Serialization : None
 Function : Contains JCL keyword parameter data defined in JCL definition tables.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	192	SWB	
0	(0) CHARACTER	48	SWBPREFX	SWB PREFIX
0	(0) UNSIGNED	1	SWBVERS	VERSION NUMBER
1	(1) UNSIGNED	1	SWBRSV1	RESERVED
2	(2) CHARACTER	10	SWBID	SWB IDENTIFICATION
2	(2) CHARACTER	8	SWBOWNM	OWNER NAME
10	(A) UNSIGNED	2	SWBBKID	BLOCK ID
12	(C) CHARACTER	16	SWBCHNID	SWB CHAIN IDENTIFICATION
12	(C) CHARACTER	8	SWBVERB	VERB
20	(14) CHARACTER	8	SWBVRBL	VERB LABEL
28	(1C) BITSTRING	1	SWBFLAG1	FLAG BYTE, RESERVED
29	(1D) BITSTRING	1	SWBFLAG2	FLAG BYTE
	1... ..		SWBNSWA	SWB DOES NOT RESIDE IN SWA
	.111 1111			RESERVED
30	(1E) CHARACTER	2	SWBRSV2	RESERVED
32	(20) ADDRESS	4	SWBNEXT	ADDR OF NEXT SWB ON SAME CHAIN

SWB

SWB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
36	(24) ADDRESS	4	SWBCHNXT	ADDR OF NEXT SWB ON NEXT CHAIN (APPLICABLE TO FIRST SWB ON CHAIN, OTHERWISE ZERO)
40	(28) CHARACTER	8	SWBRSV3	RESERVED

THE SWB DATA EXTENT IS COMPRISED OF A 128 BYTE DATA PORTION AND 16 BYTES OF VALIDITY INDICATORS. FOR EACH BYTE IN THE SWB DATA PORTION, THERE IS A CORRESPONDING BIT IN THE VALIDITY INDICATORS. IF DATA HAS BEEN STORED IN THAT BYTE, THE VALIDITY INDICATOR WILL BE ON, OTHERWISE THE BIT WILL BE OFF. THE DATA PORTION OF THE SWB IS BUILT FROM INFORMATION THAT IS DEFINED THROUGH THE SCHEDULER JCL FACILITY (SJF), AND ITS FORMAT IS DEFINED IN A JCL DEFINITION TABLE (JDT).

48	(30) CHARACTER	144	SWBEXTNT	SWB DATA EXTENT
48	(30) BITSTRING	16	SWBVALID	VALIDITY INDICATORS
64	(40) CHARACTER	128	SWBDATA	SWB DATA PORTION

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TAXE

Common Name : TSO Terminal Attention Exit Element
 Macro ID : IKJTAXE
 DSECT Name : TAXE
 Created by : IEAVAX00
 Subpool and Key : 253 and key 0
 Size : 98 bytes
 Pointed to by : RCTDTAXE field of the RCTD data area.
 Serialization : Local Lock
 Function : This data area consists of an IRB, an IQE, and a work area.
 It maps an entire TAXE with the exception of the RB prefix because of
 its varying size and since it is not required when referencing the TAXE.
 The TAXE contains information necessary for scheduling attention exits
 and is used to queue STAX exit requests.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	144	TAXE	
0	(0) CHARACTER	96	TAXEIRB	IRB
96	(60) ADDRESS	4	TAXENIQE	PTR NEXT AVAILABLE IQE
STANDARD IQE *****				
100	(64) CHARACTER	44	TAXEWORK	LABEL USED WHEN CLEARING WORK AREA Y02752
100	(64) ADDRESS	4	TIQELNK	ADDR OF NEXT IQE ON IQE QUEUE Y02752
104	(68) ADDRESS	4	TIQEPARM	PARM TO ASYNCHRONOUS EXIT ROUTINE Y02752
108	(6C) ADDRESS	4	TIQEIRB	ADDR OF IRB TO BE SCHD. Y02752
112	(70) ADDRESS	4	TAXETCB	PTR TO TCB Y02752

TAXE

TAXE

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OFFSETS TYPE LENGTH NAME DESCRIPTION

WORK AREA OF IRB *****

116	(74)	CHARACTER	1		Z
117	(75)	ADDRESS	3	TAXELNK	PTR TO NEXT TAXE ON QUE Z
120	(78)	ADDRESS	4		RESERVED Y02752
124	(7C)	ADDRESS	4	TAXEEXIT	PTR TO USER ATTENTION EXIT ROUTINE Y02752
128	(80)	ADDRESS	4	TAXEPARM	PTR TO PARAMETER LIST TO STAX Y02752
128	(80)	CHARACTER	1	TAXESTAT	STATUS OF PROGRAM ISSUING THE STAX SVC Y02752
	1...	....		TAXEFKEY	STATUS FLAG FOR PROB KEY Y02752
	.1..	....		TAXEFMOD	STATUS FLAG FOR PROB MODE Y02752
	..1.	....		TAXEFREQ	STATUS FLAG FOR REQUESTED TAXE Y02752
	...1	....		TAXERESM	ON-ATTENTION PROLOGUE MUST NOT GO TO USER ATTENTION EXIT Y02752
	....	1...		TAXESCHD	ON-TAXE HAS BEEN SCHEDULED BUT IS NOT IN USER CODE Y02752
	....	.1..		TAXEATTN	ON-ATTN IN EFFECT FOR CLIST
	....	..11			RESERVED
129	(81)	ADDRESS	3	TAXESTAX	ADDRESS (24 BIT) TO PARM LIST TO STAX Y02752
132	(84)	ADDRESS	4	TAXETAIE	PTR TO TAIE Y02752
136	(88)	ADDRESS	4	TAXEIBUF	PTR TO USER INPUT BUFFER Y02752
140	(8C)	ADDRESS	4	TAXEUSER	PTR TO USER PARAMETER Y02752
144	(90)	CHARACTER	0	TAXEEND	TAXE WILL BE IN DBL WDS Y02752

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TCAST

Common Name : TCAS Table
 Macro ID : IKTTCAST
 DSECT Name : TCAST
 Created by : TCAS routine IKTCAS53
 Subpool and Key : 231 and key 6
 Size : 128 bytes
 Pointed to by : CVTTCASP field of the CVT data area
 TWATCAST field of the TWAR data area
 Serialization : Compare & swap logic
 Function : The TCAST is the primary control block for TSO/VTAM
 time sharing. It provides information and pointers for TCAS
 and VTIOC routines.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	148	TCAST	
0	(0) CHARACTER	4	TCASID	'TCAS' EBCDIC IDENTIFIER
4	(4) CHARACTER	4	TCASUSER	FULLWORD CONTAINING TCASUSEC FOR COMPARE AND SWAP
4	(4) SIGNED	2	TCASUSEC	NUMBER OF ACTIVE USERS
6	(6) SIGNED	2	TCASUMAX	MAXIMUM NUMBER OF USERS ALLOWED
8	(8) CHARACTER	8	TCASACBP	ACB PASSWORD
16	(10) SIGNED	2	TCASRCON	RECONNECT TIME IN MINUTES
18	(12) SIGNED	2	TCASCLSZ	CELL SIZE
20	(14) SIGNED	4	TCASHBUF	HIGH BUFFER THRESHOLD
24	(18) SIGNED	4	TCASLBUF	LOW BUFFER THRESHOLD
28	(1C) SIGNED	2	TCASCRSZ	3270 SCREEN SIZE
30	(1E) UNSIGNED	1	TCASCHNL	MAXIMUM CHAIN LENGTH
31	(1F) UNSIGNED	1		RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
32	(20) CHARACTER	8	TCASTID	SYMBOLIC TERMINAL IDENTIFIER
40	(28) SIGNED	4	TCASXECB	CROSS MEMORY SYNC ECB
44	(2C) ADDRESS	4	TCASDATI	INPUT DATA PROCESSOR A(IKT3270I) MODULE
48	(30) ADDRESS	4	TCASDATO	OUTPUT DATA PROCESSOR A(IKT3270O) MODULE
52	(34) ADDRESS	4	TCASMSGs	LPALIB MESSAGE MODULE A(IKTMSGs) MODULE
56	(38) ADDRESS	4	TCASFRR	I/O FRR ROUTINE A(IKTIOFRR) MODULE
60	(3C) ADDRESS	4	TCASWA	A(TCAS WORK AREA)
64	(40) ADDRESS	4	TCASTTL	A(TIM/TOM LIST)
68	(44) ADDRESS	4	TCASTSB	A(FIRST TSO/VTAM TSB)
72	(48) ADDRESS	4	TCASIQM	INPUT QUEUE MANAGER A(IKTQMIN)
76	(4C) ADDRESS	4	TCASOQM	OUTPUT QUEUE MANAGER A(IKTQMOUT)
80	(50) ADDRESS	4	TCASEXIT	TIM/TOM EXIT RTN A(IKTEXIT) MODULE
84	(54) ADDRESS	4	TCASLTE	LOSTERM EXIT A(IKTLTERM) MODULE
88	(58) CHARACTER	1	TCASFLG1	FIRST TCAST FLAG BYTE
	1... ..		TCASBKMD	TERMINAL HAS BREAK MODE
	.1.. ..		TCASMDSW	BREAK MODE SWITCH ALLOWED
	..1.		TCASABND	TCAS ABENDED
	...1		TCASVSD	VTAM SHUTTING DOWN
	.... 1...		TCASNACT	TCAS NOT ACTIVE
	.... .1..		TCASHAST	HALT ISSUED, ADDRESS SPACE TERMINATED
	.... ..1.			RESERVED
	.... ....1		TCASCONF	CONFIDENTIAL BUFFERS
89	(59) CHARACTER	1	TCASFLG2	SECOND TCAST FLAG BYTE
90	(5A) CHARACTER	1	TCASFLG3	RESERVED
91	(5B) CHARACTER	1	TCASFLG4	RESERVED
92	(5C) ADDRESS	4	TCASASCB	POINTER TO TCAS ASCB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
96	(60) ADDRESS	4	TCASTGTF	GTF TRACE ROUTINE A(IKTVTGTF)
100	(64) SIGNED	2		RESERVED
102	(66) SIGNED	2		RESERVED
104	(68) ADDRESS	4	TCASTTQH	POINTER TO FIRST TERMINAL CONTROL WORK ELEMENT
108	(6C) ADDRESS	4	TCASASCI	ASCII TRANSLATE TABLE A(IKTASCI) MODULE
112	(70) ADDRESS	4	TCASATTN	ATTENTION ROUTINE A(IKTATTN) MODULE
116	(74) UNSIGNED	2	TCASBR14	BR 14 INSTRUCTION FOR SRB RMPL ADDRESS
118	(76) SIGNED	2		RESERVED
120	(78) ADDRESS	4	TCASOMJR	A(IKTTOMJR)
124	(7C) ADDRESS	4	TCASTPND	ADDR OF TPEND EXIT
128	(80) ADDRESS	4	TCASSCHD	LOSTERM EXIT SCHEDULER A(IKTIST00) MODULE
132	(84) ADDRESS	4	TCASDUMP	A(IKTDMPCD) CONTROL BLOCK
136	(88) ADDRESS	4	TCAS767I	INPUT DATA PROCESSOR A(IKT3767I) MODULE
140	(8C) ADDRESS	4	TCAS767O	OUTPUT DATA PROCESSOR A(IKT3767O) MODULE
144	(90) ADDRESS	4	TCASTTYO	OUTPUT DATA PROCESSOR A(IKTWTTYO) MODULE
148	(94) CHARACTER	0	TCASTEND	END OF TCAST

TCAST

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TCAST
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TCB

Common Name : Task Control Block

Macro ID : IKJTCTB

DSECT Name : TCBFIX (DSECT card precedes prefix). The label, TCB, should be used in the USING statement for the TCB proper. TCBXTNT2 is the DSECT name for common extension.

Created by : SYSGEN, ATTACH

Subpool and Key : 253 and key 0

Size : 408 bytes

Pointed to by : ASMTCTBPT field of the ASMVT data area

ASXBFTCTB field of the ASXB data area (first TCB)

ASXBLTCTB field of the ASXB data area (last TCB)

CVTSLIDA field of the CVT data area (supervisor lock TCB)

CVTWTCTB field of the CVT data area (dummy WAIT TCB)

DEBTCTBAD field of the DEB data area

DSABTCTBP field of the DSAB data area

EVNTTCTBP field of the EVNT data area

JSCBTCTBP field of the JSCB data area (initiator TCB)

LCTTCTBAD field of the LCT data area

ORETCTB field of the ORE data area

PQETCTB field of the PQE data area

PSATNEW field of the PSA data area (new TCB to dispatch)

PSATOLD field of the PSA data area (current TCB dispatched)

QELTCTB field of the QEL data area

QPLTCTB field of the QPL data area

RBLINK field of the RB data area

RQETCTB field of the RQE data area

SCVTCTCTB field of the SCVT data area (Comm Task TCB)

SMCAWTCTB field of the SMCA data area (SMF writer TCB)

SQETCTB field of the SQE data area

SSETCTBA field of the EOT SSOB data area (terminating TCB)

TAXETCTB field of the TAXE data area

TCBTCTB field of the TCB data area (next TCB)

TCBJSTCTB field of the TCB data area (jobstep TCB)

TCBNCT field of the TCB data area (sister TCB)

TCBOTCT field of the TCB data area (originating TCB)

TCBLTCT field of the TCB data area (subtask TCB)

TCBBACK field of the TCB data area (previous ready TCB)

TCCWTCTB field of the TCCW data area

TCTTCTB field of the TCT data area

TCB

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Data Area Descriptions

TCB

205

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TIOCLDS field of the TIOCRPT data area (line disconnect TCB)
 TQETCB field of the TQE data area
 TSBWTCB field of the TSB data area (waiting TCB)
 TSBCTCB field of the TSB data area (TPUT TCB)
 UCMPXA field of the UCM data area (comm task TCB)
 WQETCB field of the WQE data area
 WQEJSTCB field of the WQE data area (associated jobstep TCB)

Serialization : Local lock (CS instruction for TCBACTIV, TCBS3A bits) TCB active, non-dispatchable.

Function : The task control block (TCB) serves as a repository for information and pointers associated with the task in process. Various components of the control program place information in the TCB and obtain information or its location by reference to it.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	TCBFIX	, TCBPTR-32
-32	(-20) CHARACTER	32	TCBFRS	FLOATING POINT REGISTER SAVE AREA
-32	(-20) FLOATING	8	TCBFRS0	SAVE AREA FOR FLOATING POINT REGISTER 0
-24	(-18) FLOATING	8	TCBFRS2	SAVE AREA FOR FLOATING POINT REGISTER 2
-16	(-10) FLOATING	8	TCBFRS4	SAVE AREA FOR FLOATING POINT REGISTER 4
-8	(-8) FLOATING ..1.	8	TCBFRS6 TCBPXLEN	SAVE AREA FOR FLOATING POINT REGISTER 6 "X"-TCBFIX"LENGTH OF PREFIX SECTION
TCB PROPER				
0	(0) FLOATING ..1.	8	TCB	"X"- TCBPTR
0	(0) ADDRESS	4	TCBRBP	ADDRESS OF THE RB FOR EXECUTING PROGRAM. THIS OFFSET FIXED BY ARCHITECTURE.
4	(4) ADDRESS	4	TCBPIE	ADDRESS OF SPIE CONTROL AREA. THE FIRST WORD OF THIS AREA CONTAINS THE PROGRAM INTERRUPT ELEMENT (PIE) ADDRESS.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
4	(4) BITSTRING 1111	1	TCBPMASK TCBPM	SPIE BITS "X'0F'"- PROGRAM MASK AT TIME OF SPIE INITIATION. MASK RESTORED AT TIME OF SPIE NULLIFICATION.
5	(5) ADDRESS	3	TCBPIEA	ADDRESS OF SPIE CONTROL AREA. THE FIRST WORD OF THIS AREA CONTAINS THE PROGRAM INTERRUPT ELEMENT (PIE) ADDRESS.
8	(8) ADDRESS	4	TCBDEB	ADDRESS OF THE DEB QUEUE
12	(C) ADDRESS	4	TCBTIO	ADDRESS OF THE TASK I/O TABLE (TIOT)
16	(10) BITSTRING	4	TCBCMP	TASK COMPLETION CODE AND INDICATORS
16	(10) BITSTRING 1... .... .1.. .... ..1.	1	TCBCMPF TCBCREQ TCBCSTEP TCBCPP	INDICATOR FLAGS "X'80'"- A DUMP HAS BEEN REQUESTED "X'40'"- A STEP ABEND HAS BEEN REQUESTED "X'20'"- SOME PROBLEM PROGRAM STORAGE WAS OVERLAID BY THE SECOND LOAD OF ABEND. A FIRST LOAD OVERLAY IS INDICATED IN TCBFLGS FIELD (OFFSET 29 DECIMAL). (OS/VS1)
	..1.		TCBDMPO	"X'20'"- DUMP OPTIONS WERE PROVIDED ON CALLRTM OR SETRP MACRO (OS/VS2)
	...1		TCBSTCC	"X'10'"- COMPLETION CODE IS NOT TO BE STORED IN TCBCMPC (OFFSET 17 DECIMAL) IF AN ABEND IS ENCOUNTERED. THIS IS TO PREVENT AN OVERLAY OF THE ORIGINAL COMPLETION CODE. (OS/VS1)
	...1		TCBNOCC	"X'10'"- A COMPLETION CODE WAS NOT PROVIDED ON CALLRTM MACRO. A DEFAULT CODE IS BEING USED. (OS/VS2)
	.... 1...		TCBCDBL	"X'08'"- A DOUBLE ABEND HAS OCCURRED (OS/VS1)
	.... 1...		TCBCASID	"X'08'"- ABEND WAS SCHEDULED VIA CROSS MEMORY ABTERM (OS/VS2)
	.... .1..		TCBCWTO	"X'04'"- A DUMP MESSAGE (WTO) IS TO BE ISSUED TO THE OPERATOR (OS/VS1)
1.		TCBCIND	"X'02'"- ABEND TO OUTPUT AN INDICATIVE DUMP (OS/VS1)
1		TCBCMSG	"X'01'"- AN ABEND MESSAGE IS PROVIDED TO

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
17	(11) BITSTRING	3	TCBCMPC	BE PRINTED BY ABDUMP (OS/VS1) SYSTEM COMPLETION CODE IN FIRST 12 BITS, USER COMPLETION CODE IN LAST 12 BITS
20	(14) ADDRESS	4	TCBTRN	ADDRESS OF TESTRAN CONTROL CORE TABLE
20	(14) BITSTRING	1	TCBABF	FLAG BYTE
	1... ..		TCBMOD91	"X'80'"- BOTH TESTRAN AND DECIMAL SIMU- LATOR ON A MOD 91
	.1... ..		TCBNOCHK	"X'40'"- SUPPRESS TAKING CHECKPOINTS FOR THIS STEP (JOB STEP TCB)
	..1.		TCBGRPH	"X'20'"- GAM/SP IS ACTIVE FOR THIS TASK
	.... 1...		TCBTCPP	"X'08'"- TCAM POST-PENDING (RORI)
	.... .1..		TCBTCP	"X'04'"- TEST TASK USED BY TEST SVC
	.... ..1.		TCBOLTEP	"X'02'"- OLTEP FUNCTIONS REQUIRE CLEANUP BEFORE ABNORMAL TERMINATION CAN BE INVOKED
21	(15) ADDRESS	3	TCBTRNB	ADDRESS OF TESTRAN CONTROL CORE TABLE
24	(18) ADDRESS	4	TCBMSS	FOR JOB STEP TCB, ADDRESS OF THE BOUNDA- RY BOX. FOR SUBTASK TCB, ADDRESS OF THE GOTTEN SUBTASK AREA QUEUE ELEMENT (GQE). A GQE IS PRESENT ONLY IF THE SYSTEM HAS ISSUED A GETMAIN MACRO INSTRUCTION FOR THE SPACE. (OS/VS1) ADDRESS OF LAST SPQE ON MSS QUEUE (OS/VS2)
24	(18) HEX	1	TCBR018	RESERVED TCBNROC FIELD UNUSED IN OS/VS
25	(19) ADDRESS	3	TCBMSSB	FOR JOB STEP TCB, ADDRESS OF THE BOUNDA- RY BOX. FOR SUBTASK TCB, ADDRESS OF THE GOTTEN SUBTASK AREA QUEUE ELEMENT (GQE). A GQE IS PRESENT ONLY IF THE SYSTEM HAS ISSUED A GETMAIN MACRO INSTRUCTION FOR THE SPACE. (OS/VS1) ADDRESS OF LAST SPQE ON MSS QUEUE (OS/VS2)
28	(1C) BITSTRING	1	TCBPKF	STORAGE PROTECTION KEY FOR THIS TASK. IF THERE IS NO STORAGE PROTECTION, ALL BITS ARE ZERO.
	1111		TCBFLAG	"X'F0'"- STORAGE PROTECTION KEY
 1111		TCBZERO	"X'0F'"- MUST BE ZERO

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
29	(1D) BITSTRING	5	TCBFLGS	FLAG BYTE FIELDS
29	(1D) BITSTRING	1	TCBFLGS1	FIRST TCB FLAG BYTE
	1... ..		TCBFFA	"X'80'"- ABNORMAL TERMINATION IN PROGRESS
	.1.. ..		TCBFEB	"X'40'"- NORMAL TERMINATION IN PROGRESS
	..1.		TCBFERA	"X'20'"- ENTER ABEND ERASE ROUTINE WHEN IN CONTROL AGAIN (OS/VS2)
	...1		TCBNONPR	"X'10'"- TASK IS NON-PREEMPTABLE (OS/VS2)
	.... 1...		TCBPDUMP	"X'08'"- PREVENT DUMP INDICATOR (OS/VS2)
	.... .1..		TCBFT	"X'04'"- TOP TASK IN TREE BEING ABTERMED (OS/VS2)
	.... ..1.		TCBFS	"X'02'"- ABTERM DUMP COMPLETED (OS/VS2) PROBLEM PROGRAM STORAGE HAS BEEN OVERLAID TO PROCESS ABEND (OS/VS1)
	.... ....1		TCBFX	"X'01'"- PROHIBIT QUEUEING OF ASYNCHROUNOUS EXITS FOR THIS TASK
30	(1E) BITSTRING	1	TCBFLGS2	SECOND FLAG BYTE
	1... ..		TCBFOINP	"X'80'"- THE TASK IS ABENDING AND IS IN THE PROCESS OF (1) OPEN FOR DUMP DATA SET PROCESSING, (2) CLOSE FOR USER DATA SET OR (3) PURGE FOR ENQ'ED RESOURCES. THIS BIT IS USED IN CONJUNCTION WITH TCBSTACK. (OS/VS2)
	.1.. ..		TCBFSTI	"X'40'"- SECOND JOB STEP INTERVAL HAS EXPIRED (OS/VS2 INITIATOR TCB)
	..1.		TCBFABOP	"X'20'"- IF 1, THE SYSABEND DUMP DATA SET HAS BEEN OPENED FOR ABEND. IF 0, THE SYSUDUMP DUMP DATA SET WAS OPENED. THIS BIT IS ONLY USED FOR THE JOB STEP TCB AND IS USED IN CONJUNCTION WITH TCBFDSOP BIT. (OS/VS2)
	...1		TCBFSMC	"X'10'"- TASK HAS ISSUED A SYSTEM-MUST-COMPLETE AND SET ALL OTHER TASKS IN THE SYSTEM NONDISPATCHABLE
 1...		TCBFJMC	"X'08'"- TASK HAS ISSUED A STEP-MUST-COMPLETE AND TURNED OFF ALL OTHER TASKS IN THE STEP
1..		TCBFDSOP	"X'04'"- SYSABEND OPEN FOR JOB STEP (OS/VS2)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.		TCBFETXR	"X'02'"- ETXR TO BE SCHEDULED
	.... .1.1		TCBFTS	"X'01'"- THIS TASK IS A MEMBER OF A TIME-SLICED GROUP
31	(1F) BITSTRING	1	TCBFLGS3	THIRD FLAG BYTE. SERIALIZATION TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK
	1...		TCBFSM	"X'80'"- ALL PSW'S IN SUPERVISOR STATE (OS/V52)
	.1...		TCBRT1S	"X'40'"- RTM1 HAS INVOKED SLIP FOR A TASK IN EUT MODE. RTM2 MAY BYPASS SLIP PROCESSING OWNERSHIP RTM
	..1.		TCBABTRM	"X'20'"- ABTERM BIT TO PREVENT MULTIPLE ABENDS (OS/V52)
	...1		TCBABGM	"X'10'"- GETMAIN IS TO DEFAULT LSQA REQUESTS TO SQA REQUESTS WHEN REQUEST CANNOT BE SATISFIED FROM LSQA (OS/V52)
	.... .1.		TCBENQRM	"X'02'"- ENQ/DEQ RESOURCE MANAGER HAS RECEIVED CONTROL. NO FURTHER DIRECTED ENQS ALLOWED. SERIALIZATION TCBACTIV AND CMSEQDQ CLASS LOCK. OWNERSHIP GRS.
	.... .1.1		TCBDWSTA	"X'01'"- THIS TASK WAS DETACHED WITH STAE=YES OPTION (OS/V52)
32	(20) BITSTRING	1	TCBFLGS4	NONDISPATCHABILITY FLAGS (OS/V52) RESERVED BYTE (OS/V51)
	1...		TCBNDUMP	"X'80'"- ABDUMP NONDISPATCHABILITY INDICATOR
	.1...		TCBSER	"X'40'"- SER1 NONDISPATCHABILITY INDICATOR
	..1.		TCBRQENA	"X'20'"- I/O RQE'S EXHAUSTED
	...1		TCBHNDSP	"X'10'"- TASK OR JOB STEP IS MOMENTARILY 'FROZEN' UNTIL THE REQUIRED RESOURCES ARE AVAILABLE. THE BIT IS SET THROUGH THE USE OF THE 'STATUS' SVC
	.... 1...		TCBUXNDV	"X'08'"- TASK IS TEMPORARILY NONDISPATCHABLE BECAUSE SMF TIME LIMIT OR SYS-OUT LIMIT USER EXIT ROUTINE IS BEING EXECUTED FOR THIS STEP
	.... .1..		TCBRBWF	"X'04'"- TOP RB IS IN WAIT STATE
1.1		TCBONDSP	"X'01'"- TASK TERMINATING AND NONDISPATCHABLE BECAUSE EITHER OPEN FOR DUMP DATA SET IS IN PROCESS OR CLOSE BY ABEND

TCB

210

MVS/370 Debug Hdbk Vol 5

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TCB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
33	(21) BITSTRING	1	TCBFLGS5	IS IN PROCESS MORE NONDISPATCHABILITY FLAGS. IF ANY BIT IN THIS BYTE IS 1, THE TASK IS NON-DISPATCHABLE.
	1...		TCBFC	"X'80'"- TASK TERMINATED (OS/V52)
	.1..		TCBABWF	"X'40'"- ABNORMAL WAIT (OS/V52)
	.1..		TCBUXNDF	"X'40'"- TASK IS TEMPORARILY NONDISPATCHABLE BECAUSE SMF TIME LIMIT OR SYS-OUT LIMIT USER EXIT ROUTINE IS BEING EXECUTED FOR THIS STEP. THIS BIT IS SET TO 1 IN ALL TCB'S EXCEPT JOB STEP TCB. (OS/V51)
	..1.		TCBPAGE	"X'20'"- TASK IS NONDISPATCHABLE DUE TO EXCESSIVE PAGING RATE
	...1		TCBANDSP	"X'10'"- TASK IS TEMPORARILY NONDISPATCHABLE BECAUSE IT WAS ATTACHED UNDER THE DISP=NO OPERAND
	.... 1...		TCBSYS	"X'08'"- ANOTHER TASK IS IN SYSTEM-MUST-COMplete STATUS OR A SUMMARY BIT FOR FIELD TCBSYSCT
	.... .1..		TCBSTP	"X'04'"- ANOTHER TASK IN THIS JOB STEP IS IN STEP-MUST-COMplete STATUS
	.... ..1.		TCBFCD1	"X'02'"- INITIATOR WAITING FOR REGION (OS/V52)
	.... ....1		TCBPNDSP	"X'01'"- PRIMARY NONDISPATCHABILITY BIT. THIS BIT IS SET TO 1 IF ANY OF THE SECONDARY NONDISPATCHABILITY BITS (OFFSETS 173, 174, 175, 200 OR 201 DECIMAL) IS SET TO 1. THIS BIT IS SET TO 0 IF A SECONDARY NONDISPATCHABILITY BIT IS SET TO 0 AND ALL OTHER SECONDARY NONDISPATCHABILITY BITS ARE 0.
34	(22) SIGNED	1	TCBLMP	TASK LIMIT PRIORITY (OS/V52) NUMBER OF RESOURCES FOR WHICH THIS TASK IS ENQUEUED (OS/V51)
35	(23) SIGNED	1	TCBDSP	DISPATCHING PRIORITY FOR THIS TASK
36	(24) ADDRESS	4	TCBLLS	ADDRESS OF LAST LOAD LIST ELEMENT (LLE) IN LOAD LIST (OS/V52) ADDRESS OF THE PREFIX OF THE MOST RECENTLY ADDED REQUEST BLOCK (RB-8) ON THE LIST OF PRO-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				GRAMS LOADED VIA THE LOAD MACRO INSTRUCTION (OS/VS1)
40	(28) ADDRESS	4	TCBJLB	ADDRESS OF A JOBLIB DCB
44	(2C) ADDRESS	4	TCBJPQ	ADDRESS OF LAST CDE FOR JOB PACK AREA (JPA) CONTROL QUEUE (OS/VS2)
44	(2C) BITSTRING 1... ..	1	TCBPURGE TCBJPQF	PURGE FLAGS (OS/VS2) "X'80'" - JPQ PURGE FLAG
45	(2D) ADDRESS	3	TCBJPQB	ADDRESS OF LAST CDE FOR JOB PACK AREA (JPA) CONTROL QUEUE (OS/VS2)
48	(30) CHARACTER	64	TCBGRS	GENERAL REGISTER SAVE AREA. THIS OFFSET FIXED BY ARCHITECTURE.
48	(30) SIGNED	4	TCBGRS0	SAVE AREA FOR GENERAL REGISTER 0
52	(34) SIGNED	4	TCBGRS1	SAVE AREA FOR GENERAL REGISTER 1
56	(38) SIGNED	4	TCBGRS2	SAVE AREA FOR GENERAL REGISTER 2
60	(3C) SIGNED	4	TCBGRS3	SAVE AREA FOR GENERAL REGISTER 3
64	(40) SIGNED	4	TCBGRS4	SAVE AREA FOR GENERAL REGISTER 4
68	(44) SIGNED	4	TCBGRS5	SAVE AREA FOR GENERAL REGISTER 5
72	(48) SIGNED	4	TCBGRS6	SAVE AREA FOR GENERAL REGISTER 6
76	(4C) SIGNED	4	TCBGRS7	SAVE AREA FOR GENERAL REGISTER 7
80	(50) SIGNED	4	TCBGRS8	SAVE AREA FOR GENERAL REGISTER 8
84	(54) SIGNED	4	TCBGRS9	SAVE AREA FOR GENERAL REGISTER 9
88	(58) SIGNED	4	TCBGRS10	SAVE AREA FOR GENERAL REGISTER 10
92	(5C) SIGNED	4	TCBGRS11	SAVE AREA FOR GENERAL REGISTER 11

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
96	(60) SIGNED	4	TCBGRS12	SAVE AREA FOR GENERAL REGISTER 12
100	(64) SIGNED	4	TCBGRS13	SAVE AREA FOR GENERAL REGISTER 13
104	(68) SIGNED	4	TCBGRS14	SAVE AREA FOR GENERAL REGISTER 14
108	(6C) SIGNED	4	TCBGRS15	SAVE AREA FOR GENERAL REGISTER 15
112	(70) ADDRESS	4	TCBFSA	ADDRESS OF THE FIRST PROBLEM PROGRAM SAVE AREA
112	(70) SIGNED	1		FIRST BYTE OF TCBFSA (OS/VS2)
113	(71) ADDRESS	3	TCBFSA B	ADDRESS OF THE FIRST PROBLEM PROGRAM SAVE AREA
116	(74) ADDRESS	4	TCBT C B	ADDRESS OF NEXT TCB OF LOWER PRIORITY ON THE READY QUEUE
120	(78) ADDRESS 1... ..	4	TCBTME TCBTQET	ADDRESS OF THE TIMER QUEUE ELEMENT (TQE) "X'80'"- IF ZERO, TASK TYPE TQE. IF ONE, REAL/WAIT TYPE TQE.
124	(7C) ADDRESS	4	TCBJST C B	ADDRESS OF FIRST JOB STEP TCB OR OF THIS TCB IF KEY ZERO (OS/VS2)
124	(7C) HEX	1	TCBR07C	RESERVED.
125	(7D) ADDRESS	3	TCBJST C A	ADDRESS OF FIRST JOB STEP TCB OR OF THIS TCB IF KEY ZERO (OS/VS2)
128	(80) ADDRESS	4	TCBN T C	ADDRESS OF THE TCB FOR THE TASK PREVI- OUSLY ATTACHED BY THE TASK THAT ATTACHED THIS TASK. FOR EXAMPLE, IF TASK A ATTACHED TASK B AND THEN TASK C, THIS FIELD IN TASK C'S TCB POINTS TO TASK B'S TCB, AND THIS FIELD IN TASK B'S TCB IS ZERO.
132	(84) ADDRESS	4	TCBOT C	ADDRESS OF THE TCB FOR THE TASK (THE ORIGINATING TASK) THAT ATTACHED THIS TASK. THIS FIELD IS ZERO IN THE TCB FOR A SYSTEM TASK.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
136	(88) ADDRESS	4	TCBLTC	ADDRESS OF THE TCB FOR THE TASK LAST ATTACHED BY THIS TASK. NOTE IF A TASK (THE ORIGINATING TASK) HAS ATTACHED OTHER TASKS, THE TCB'S FOR THE OTHER TASKS ARE ON THE SUBTASK QUEUE OF THE ORIGINATING TASK. TCBLTC IN THE TCB FOR THE ORIGINATING TASK POINTS TO THE LAST TCB (THE TCB FOR THE LAST ATTACHED TASK) IN THE SUBTASK QUEUE. IN EACH TCB ON THE SUBTASK QUEUE, EXCEPT THE FIRST TCB, TCBNTC POINTS TO THE PRECEDING TCB ON THE QUEUE.
140	(8C) ADDRESS	4	TCBIQE	ADDRESS OF AN INTERRUPTION QUEUE ELEMENT (IQE) FOR SCHEDULING THE ETXR ROUTINE OF THE TASK THAT ATTACHED THIS TASK.
144	(90) ADDRESS	4	TCBECB	ADDRESS OF THE ECB THAT WILL BE POSTED BY THE SUPERVISOR'S TASK TERMINATION ROUTINES WHEN NORMAL OR ABNORMAL TERMINATION OCCURS.
148	(94) BITSTRING	1	TCBTSFLG	TIME SHARING FLAGS
	1... ..		TCBTSTSK	"X'80'"- SWAPPED TIME SHARING TASK (OS/VS1)
	.1.. ..		TCBSTPPR	"X'40'"- TASK SHOULD BE MADE NONDISPATCHABLE VIA TCBSTPP WHEN IT IS NO LONGER RUNNING A PRIVILEGED PROGRAM
	..1.		TCBATT	"X'20'"- TASK SHOULD NOT HAVE ATTENTION EXITS SCHEDULED ON IT BY EXIT EFFECTOR. THIS OFFSET FIXED BY ARCHITECTURE.
	...1		TCBTIOTG	"X'10'"- PURGE TGET/TPUT AFTER ATTENTION
	.... ..1.		TCBDYDSP	"X'02'"- M195 TASK IS MEMBER OF DYNAMIC DISPATCHING GROUP
	.... ...1		TCBCPUBN	"X'01'"- FOR M195, ZERO MEANS I/O BOUND AND ONE MEANS CPU BOUND
149	(95) SIGNED	1	TCBSTPCT	NUMBER OF SETTASK STARTS WHICH MUST BE ISSUED BEFORE TASK IS MADE DISPATCHABLE FIELD NOT RESTRICTED TO TSO

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
150	(96) SIGNED	1	TCBTSLP	LIMIT PRIORITY OF TIME SHARING TASK
151	(97) BITSTRING	1	TCBTSDP	DISPATCHING PRIORITY OF TIME SHARING TASK
152	(98) ADDRESS	4	TCBPQE	POINTER TO DPQE MINUS 8 FOR THE JOB STEP (OS/V52)
156	(9C) ADDRESS	4	TCBAQE	LIST ORIGIN OF AQE(S) FOR THIS TASK (OS/V52)
160	(A0) ADDRESS	4	TCBSTAB	ADDRESS OF THE CURRENT STAE CONTROL BLOCK
160	(A0) BITSTRING	1	TCBNSTAE	FLAGS INTERNAL TO STAE ROUTINE
	1... ..		TCBSTABE	"X'80'"- ABEND ENTERED BECAUSE OF ERROR IN STAE PROCESSING
	.1... ..		TCBQUIES	"X'40'"- STAE INVOKED PURGE I/O ROUTINE WITH QUIESCE I/O OPTION
	..1.		TCB33E	"X'20'"- A 33E ABEND HAS OCCURRED FOR TASK (OS/V52)
	...1		TCBPPSUP	"X'10'"- 1=SUPERVISOR MODE,0=PROBLEM PROGRAM MODE INDICATOR TO SYNCH OF THE MODE OF THE USER EXIT (OS/V52)
	.... 1...		TCBHALT	"X'08'"- PURGE I/O ROUTINE DID NOT SUCCESSFULLY QUIESCE I/O, BUT I/O WAS HALTED
	.... .1..		TCBSYNCH	"X'04'"- SYNCH ISSUED BY ASIR TO SCHEDULE EXIT ROUTINE (OS/V52)
	.... ...1		TCBSTCUR	"X'01'"- STAE RECURSION VALID (OS/V52)
161	(A1) ADDRESS	3	TCBSTABB	ADDRESS OF THE CURRENT STAE CONTROL BLOCK
164	(A4) ADDRESS	4	TCBTCT	ADDRESS OF THE TIMING CONTROL TABLE (TCT) IF SYSTEM MANAGEMENT FACILITIES (SMF) DATA IS BEING COLLECTED FOR THE TASK. ZERO IF SMF DATA IS NOT BEING COLLECTED FOR THE TASK OR FOR OS/V51, IF SMF IS NOT IN THE SYSTEM.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
164	(A4) BITSTRING 1... ..	1	TCBTCTGF TCBSMFGF	FLAG BYTE FOR TIMING CONTROL TABLE "X'80'"- IF ZERO, THE TCT CORE TABLE IS NOT TO BE UPDATED BY GETMAIN/FREEMAIN. IF ONE, THE TCT CORE TABLE IS TO BE UPDATED BY GETMAIN/FREEMAIN.
165	(A5) ADDRESS	3	TCBTCTB	ADDRESS OF THE TIMING CONTROL TABLE (TCT) IF SYSTEM MANAGEMENT FACILITIES (SMF) DATA IS BEING COLLECTED FOR THE TASK. ZERO IF SMF DATA IS NOT BEING COL- LECTED FOR THE TASK OR FOR OS/VSI, IF SMF IS NOT IN THE SYSTEM.
168	(A8) ADDRESS	4	TCBUSER	A WORD AVAILABLE TO THE USER
172	(AC) BITSTRING	4	TCBSCNDY	SECONDARY NONDISPATCHABILITY BITS. IF ANY BIT IN THE FOLLOWING FOUR BYTES IS 1, THE PRIMARY NONDISPATCHABILITY BIT (OFFSET 33.7 DECIMAL) IS 1, AND THE TASK IS NONDISPATCHABLE.
172	(AC) BITSTRING	4	TCBNDSP	SAME AS TCBSCNDY
172	(AC) BITSTRING	1	TCBNDSP0	BYTE 0
173	(AD) BITSTRING 1... ..	1	TCBNDSP1 TCBDARTN	BYTE 1 "X'80'"- THE TASK IS TEMPORARILY NONDIS- PATCHABLE DAMAGE ASSESSMENT ROUTINE (DAR)
	1... ..		TNONDISP	"TCBDARTN"* ALIAS
	.1... ..		TCBDARPN	"X'40'"- THE TASK IS PERMANENTLY NONDIS- PATCHABLE DAMAGE ASSESSMENT ROUTINE (DAR)
	.1... ..		PNONDISP	"TCBDARPN"* ALIAS
	.1... ..		TCBRSTND	"X'20'"- THE TASK IS TEMPORARILY NONDIS- PATCHABLE RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER)
	...1		TCBRSPND	"X'10'"- THE TASK IS PERMANENTLY NONDIS- PATCHABLE RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER) (IF THIS BIT IS ON THEN THE PREVIOUS BIT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				MUST BE ON TOO)
 1...		TCBDDRND	"X'08'"- THE TASK IS IN DEVICE ALLO- CATION AND DYNAMIC DEVICE RECONFIGURA- TION (DDR) HAS MADE IT NONDISPATCHABLE RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER) (OS/V51)
	.... .1..		TCBTSP	"X'04'"- DISPATCHING OF TCAM TASK MUST BE DELAYED UNTIL TCAM I/O APPENDAGE OR SVC ROUTINE HAS COMPLETED EXECUTION (TCAM IN MULTIPROCESSING ENVIRONMENT)
	.... ..1.		TCBPIEND	"X'02'"- SRB IS TO BE SCHEDULED TO PER- FORM PIE/PICA PROCESSING (FIRST LEVEL INTERRUPT HANDLER)
	.... ....1		TCBABTIN	"X'01'"- THE TASK IS TEMPORARILY NONDIS- PATCHABLE WHILE BEING SET UP FOR ABTERM (OS/V52)
174	(AE) BITSTRING	1	TCBNDSP2	BYTE 2
	1...		TCBABB	"X'80'"- ABDUMP IS PROCESSING (OS/V51)
	.1...		TCBSTPP	"X'40'"- TASK SET NONDISPATCHABLE BY SETTASK
	..1.		TCBND SVC	"X'20'"- TASK IS NONDISPATCHABLE BECAUSE SVC DUMP IS EXECUTING FOR ANOTHER TASK
	...1		TCBNDTS	"X'10'"- TASK IS NONDISPATCHABLE BECAUSE IT IS BEING SWAPPED OUT
	.... 1...		TCBIWAIT	"X'08'"- TASK IS NONDISPATCHABLE DUE TO AN INPUT WAIT
	.... .1..		TCBOWAIT	"X'04'"- TASK IS NONDISPATCHABLE DUE TO AN OUTPUT WAIT
	.... ..1.		TCBDSS	"X'02'"- DYNAMIC SUPPORT SYSTEM (DSS) HAS SET THIS TASK NONDISPATCHABLE
	.... ....1		TCBABE	"X'01'"- ABEND ROUTINE WAS ENTERED FOR THIS TASK WHILE THE DCB FOR SYSABEND (OR SYSUDUMP) DATA SET WAS BEING OPENED FOR ANOTHER TASK (OS/V51)
175	(AF) BITSTRING	1	TCBNDSP3	BYTE 3
	1...		TCBLJSND	"X'80'"- TASK IS ABENDING AND NONDIS- PATCHABLE BECAUSE IT HAS A JOB STEP SUB- TASK. TCBONDSP MUST ALSO BE ON. (OS/V52)
	..1.		TCBSRBND	"X'20'"- TCB NONDISPATCHABLE BECAUSE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		TCBSLPER	SRB'S ARE STOPPED (OS/VS2) "X'10'" - SET NONDISPATCHABLE SO THAT SLIP/PER CAN ALTER RB PSW PER BIT (OS/VS2)
	.... 1...		TCBS3MR	"X'08'" - STAGE 3 EXIT EFFECTOR MUST RUN TO SYNCHRONIZE ATTENTION INTERRUPT (OS/VS2)
	.... .1..		TCBAREQ	"X'04'" - TSO AUTHORIZED REQUEST PROCESS- ING ACTIVE
	.... ...1		TCBNDINT	"X'01'" - INITIATOR SETS THIS BIT TO PRE- VENT JOB STEP EXECUTION IN ORDER TO DO CANCEL PROCESSING (CAN CANCEL LOOP) (OS/VS2)
176	(B0) SIGNED	4	TCBMDIDS	RESERVED FOR MODEL-DEPENDENT SUPPORT AND FOR IBM PROPRIETARY PROGRAMMING SUPPORT
180	(B4) ADDRESS	4	TCBJSCB	ADDRESS OF THE JOB STEP CONTROL BLOCK
180	(B4) BITSTRING	1	TCBRECDE	ABEND RECURSION BYTE
	1...		TCBREC	"X'80'" - VALID REENTRY TO ABEND IF NON-ZERO VALUE IN FOLLOWING 7 BITS
	.... ...1		TCBOPEN	"X'01'" - OPEN DUMP DATA SET
	.... ..1.		TCBCLOSD	"X'02'" - CLOSE DIRECT SYSOUT ON TAPE
	.... ...11		TCBCLOSE	"X'03'" - CLOSE OPEN DATA SETS
	.... .1..		TCBCLOSF	"X'04'" - RESERVED
	.... .1.1		TCBGREC	"X'05'" - GRAPHICS
	.... .111		TCBADUMP	"X'07'" - ABDUMP
	.... 1...		TCBPTAXE	"X'08'" - PURGE TAXE
	.... 1..1		TCBMESG	"X'09'" - MESSAGE RECURSION
	.... 1.1.		TCBDYNAM	"X'0A'" - DD-DYNAM TIOT CLEANUP
	.... 1.11		TCBDAMSG	"X'0B'" - ABEND IS ISSUING A WTOR ASKING WHETHER THE JOB STEP TASK SHOULD WAIT FOR THE DUMP AREA (OS/VS1)
	.... 11..		TCBQTIP	"X'0C'" - PURGE TSO INTERPARTITION POSTS
	.... 11.1		TCBTCAMP	"X'0D'" - PURGE TCAM INTERPARTITION POSTS
 111.		TCBINDRC	"X'0E'" - INDICATIVE DUMP (LOAD 8 OF ABEND) HAS ABENDED. ABEND WILL HANDLE THIS ABEND. (OS/VS1)
 1111		TCBSAVCD	"X'0F'" - ASIR RECURSION. SAVE OLD COM-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				PLETION CODE
...1			TCBTYP1W	"X'10'"- TYPE 1 MESSAGE WRITE TO PROGRAMMER
..1.			TCBWTPSE	"X'20'"- WRITE-TO-PROGRAMMER (WTP) FAILED. JOB STEP TIMER EXPIRED DURING JOB STEP ABEND AND THE STAE EXIT IS DENIED. (OS/VS1)
..1. ...1			TCBVTAM1	"X'21'"- ABEND IS ENTERING FIRST VTAM INTERFACE, ISTRAAA1, FOR TERMINATION OF TASK OR SUBTASK (OS/VS1)
..1. ..1.			TCBVTAM2	"X'22'"- ABEND IS ENTERING SECOND VTAM INTERFACE, ISTRAAA2, BECAUSE ISTRAAA1 ABENDED (OS/VS1)
..1. ...11			TCBVTAM3	"X'23'"- ABEND IS ENTERING FIRST VTAM INTERFACE, ISTRAAA0, BECAUSE VTAM ABENDED (OS/VS1)
..1. .1..			TCBVTAM4	"X'24'"- ABEND IS ENTERING SECOND VTAM INTERFACE, ISTRAAA2, BECAUSE ISTRAAA0 ABENDED (OS/VS1)
..11			TCBNOSTA	"X'30'"- STAE/STAI NOT TO BE HONORED
..11 ...1			TCBSTRET	"X'31'"- RETURN FROM DUMP PROCESSING
..11 ..1.			TCBCONVR	"X'32'"- CONVERT TO STEP ABEND
..11 ...11			TCBDARET	"X'33'"- RETURN FROM DAMAGE ASSESSMENT ROUTINES
..11 .1..			TCBTYP1R	"X'34'"- RETURN FROM TYPE 1 MESSAGE MODULE
..11 .1.1			TCBNEWRB	"X'35'"- ABEND ISSUED SVC 13 TO TRANSFER CONTROL (XCTL) TO A NON-ABEND MODULE
.1..			TCBMCCNS	"X'40'"- A MUST COMPLETE TASK HAS ABNORMALLY TERMINATED WITHOUT ENOUGH STORAGE FOR 2 RB'S FOR A WTOR ASKING WHETHER THE TASK'S RESOURCES ARE CRITICAL. THE RESOURCES ARE ASSUMED TO BE CRITICAL, AND THE PARTITION IS MARKED PERMANENTLY NONDISPATCHABLE. (OS/VS1)
181	(B5) ADDRESS	3	TCBJSCBB	ADDRESS OF THE JOB STEP CONTROL BLOCK
184	(B8) ADDRESS	4	TCBSSAT	ADDRESS OF THE SUBSYSTEM AFFINITY TABLE (SSAT). SERIALIZATION TCBACTIV. OWNERSHIP TASK MANAGEMENT.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
188	(BC) ADDRESS	4	TCBIOBRC	ADDRESS OF IOB RESTORE CHAIN FOR I/O QUIESCED BY EOT
192	(C0) ADDRESS	4	TCBEXCPD	ADDRESS OF EXCP DEBUG AREA (OS/V2)
196	(C4) ADDRESS	4	TCBEXT1	ADDRESS OF OS-OS/V2 COMMON TCB EXTENSION
196	(C4) HEX	1	TCBROC4	RESERVED.
197	(C5) ADDRESS	3	TCBEXT1A	ADDRESS OF OS-OS/V2 COMMON TCB EXTENSION

OS/V1 - OS/V2 COMMON SECTION

200	(C8) BITSTRING	4	TCBBITS	FLAG BYTES. IF A BIT IN THE FOLLOWING TWO BYTES IS SET TO 1, THE PRIMARY NON-DISPATCHABILITY BIT (OFFSET 33.7 DECIMAL) IS SET TO 1, AND THE TASK IS NONDISPATCHABLE.
200	(C8) BITSTRING	1	TCBNDSP4	SECONDARY NONDISPATCHABILITY FLAGS COMMON TO OS/V1 AND OS/V2. COORDINATED WITH PRIMARY NONDISPATCHABILITY FLAG TCBPNDSP. THIS BYTE IS NOT CURRENTLY SUPPORTED BY OS/V2.
201	(C9) BITSTRING	1	TCBNDSP5	SECONDARY NONDISPATCHABILITY FLAGS UNIQUE TO OS/V1 OR OS/V2. COORDINATED WITH PRIMARY NONDISPATCHABILITY FLAG TCBPNDSP. THIS BYTE IS NOT CURRENTLY SUPPORTED BY OS/V2.
202	(CA) BITSTRING	1	TCBFLGS6	TASK-RELATED FLAGS
	1... ..		TCBRV	"X'80'" - THE PARTITION IS FIXED IN REAL STORAGE. VIRTUAL ADDRESSES ARE EQUAL TO REAL ADDRESSES.
	.1.. ..		TCBPIE17	"X'40'" - PAGE FAULT INTERRUPT IS TO BE PASSED TO THE TASK'S INTERRUPT EXIT AND AN 8-BYTE PICA IS IN EFFECT FOR THIS TASK (OS/V2)
	..1.		TCBCPU	"X'20'" - TASK IS CPU-BOUND MEMBER OF

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		TCBSPVLK	AUTOMATIC PRIORITY GROUP (APG) (OS/VS2) "X'10'"- TASK SCHEDULED FOR ABTERM WHILE OWNING SUPERVISOR LOCK (OS/VS2)
	.... .1..		TCBMIGR	"X'04'"- REGION SELECTED FOR MIGRATION FROM PRIMARY PAGING DEVICE (OS/VS2)
	.... ..1.		TCBAPG	"X'02'"- TASK IS IN AUTOMATIC PRIORITY GROUP (APG) (OS/VS2)
	.... ....1		TCBNTJS	"X'01'"- JOB STEP TASK BUT NOT HIGHEST IN FAILING TREE (OS/VS2)
203	(CB) BITSTRING	1	TCBFLGS7	TASK-RELATED FLAGS
	1...		TCBGPECB	"X'80'"- TASK IS IN AN ECB WAIT FOR A GETPART (OS/VS2)
	..1.		TCBSVCSP	"X'20'"- IF 1, SVC SCREENING IS TO BE PROPAGATED TO SUBTASKS
	...1		TCBSTACK	"X'10'"- SET IN JOB STEP TCB TO INDICATE THAT A TASK IN THE JOB STEP IS IN SERIAL ABEND PROCESSING. USED IN CONJUNCTION WITH TCBFOINP. (OS/VS2)
	.... 1...		TCBSVCS	"X'08'"- IF 1, SVC SCREENING IS REQUIRED FOR THE TASK. THIS OFFSET FIXED BY ARCHITECTURE.
	.... .1..		TCBRSTSK	"X'04'"- RESIDENT SYSTEM TASK (OS/VS2)
	.... ..1.		TCBADMP	"X'02'"- ALL OTHER TASKS IN JOB STEP HAVE BEEN SET NONDISPATCHABLE BY ABDUMP. THIS BIT IS SET TO CONTROL JOB STEP DURING THE DUMPING PROCESS. (OS/VS2)
	.... ....1		TCBGTOFM	"X'01'"- GENERALIZED TRACE FACILITY (GTF) TRACING HAS BEEN TEMPORARILY DISABLED UNDER THIS TASK
204	(CC) BITSTRING	1	TCBDAR	DAMAGE ASSESSMENT ROUTINE (DAR) FLAGS
	1...		TCBDARP	"X'80'"- PRIMARY DAR RECURSION. DAR HAS BEEN ENTERED FOR THIS TASK.
	.1..		TCBDARS	"X'40'"- SECONDARY DAR RECURSION. IF DAR IS REENTERED, THIS TASK WILL BE SET NON-DISPATCHABLE.
	..1.		TCBDARD	"X'20'"- A DUMP HAS BEEN REQUESTED FOR A WRITER OR SCHEDULER ABEND, AND THE USER HAS PROVIDED NO SYSABEND DD CARD (OS/VS1)
	...1		TCBDARC	"X'10'"- RECURSION PERMITTED IN CLOSE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		TCBDARMC	AFTER DAR PROCESSING COMPLETED (PCP) "X'10'"- DAR HAS BEEN ENTERED TO HANDLE A VALID RECURSION IN MUST-COMplete STATUS THROUGH ABEND
	.... 1...		TCBDARO	"X'08'"- SYSTEM ERROR TASK IS FAILING. DAR DUMP SHOULD NOT REQUEST ANY ERROR RECOVERY PROCEDURE (ERP) PROCESSING.
	.... .1..		TCBDARWT	"X'04'"- A WTO OPERATION WITH A 'REIN-STATEMENT FAILURE' MESSAGE IS IN PROCESS FOR DAR
	.... ...1.		TCBDARMS	"X'02'"- WTO OPERATION WITH A 'DAR IN PROGRESS' MESSAGE IS IN PROCESS FOR DAR (OS/VS1)
	.... ...1		TCBEXSVC	"X'01'"- THE DUMP SVC ROUTINE IS EXECUTING FOR THIS TASK
205	(CD) HEX	1	TCBROCD	RESERVED.
206	(CE) SIGNED	1	TCBSYSCT	NUMBER OF OUTSTANDING SYSTEM-MUST-COMplete REQUESTS
207	(CF) SIGNED	1	TCBSTMCT	NUMBER OF OUTSTANDING STEP-MUST-COMplete REQUESTS
208	(D0) ADDRESS	4	TCBEXT2	ADDRESS OF OS/VS1 OS/VS2 COMMON EXTENSION
208	(D0) HEX	1		FIRST BYTE OF TCBEXT2
209	(D1) ADDRESS	3	TCBEXT2A	ADDRESS OF OS/VS1 OS/VS2 COMMON EXTENSION
OS/VS2 TCB OVERLAY				
212	(D4) SIGNED	4	TCBAECB	ABEND ECB. POSTED BY A MOTHER TASK IN RTM2 PROCESSING WHEN A DAUGHTER IS WAITING TO TERMINATE IT.
216	(D8) ADDRESS	4	TCBXSb	ADDRESS OF CURRENT XSB FOR TASK. SERIALIZATION TCBACTIV. OWNERSHIP SUPERVISOR.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
220	(DC) ADDRESS	4	TCBBACK	ADDRESS OF PREVIOUS TCB ON READY QUEUE. ZERO IN TOP TCB.
224	(E0) ADDRESS	4	TCBRTWA	POINTER TO CURRENT RTM2 WORK AREA
228	(E4) ADDRESS	4	TCBNSSP	NORMAL STACK SAVE AREA POINTER. SERIAL- IZATION TCBACTIV. OWNERSHIP SUPERVISOR.
	1... ..		TCBNSSQA	"X'80'"- NORMAL STACK SAVED IN SQA INDI- CATOR.
232	(E8) ADDRESS	4	TCBXLAS	ASCB ADDRESS OF THE CML LOCK HELD WHILE TCB SUSPENDED OR INTERRUPTED. SERIALIZA- TION TCBACTIV. OWNERSHIP SUPERVISOR.
236	(EC) CHARACTER	1	TCBABCUR	ABEND RECURSION BYTE
237	(ED) SIGNED	1	TCBROED	RESERVED.
238	(EE) CHARACTER	1	TCBTID	TASK ID NUMBER
	1111 1111		TCBPAGID	"255"- ID FOR PAGING SUPERVISOR TASK
	1111 111.		TCBSYERR	"254"- ID FOR SYSTEM ERROR TASK
	1111 11.1		TCBCOMM	"253"- ID FOR COMMUNICATIONS TASK
	1111 11..		TCBIO RMS	"252"- ID FOR I/O RMS TASK
	1111 1.11		TCBMASTR	"251"- ID FOR MASTER SCHEDULER TASK
	1111 1.1.		TCBJES	"250"- ID FOR JOB ENTRY SUBSYSTEM (JES) MONITOR TASK
	1111 1..1		TCBDSSID	"249"- ID FOR DYNAMIC SUPPORT SYSTEM (DSS) TASK
	1111 1...		TCBLOGID	"248"- ID FOR SYSTEM LOG TASK
239	(EF) HEX	1	TCBROEF	RESERVED.
240	(F0) SIGNED	4	TCBX SCT	DISPATCHER INTERSECT CONTROL WORD
240	(F0) BITSTRING	1	TCBX SCT1	FLAG BYTE
	1... ..		TCBACTIV	"X'80'"- BIT ON MEANS THIS TCB IS CUR- RENTLY ACTIVE ON A CPU. USED TO SYNCHRO- NIZE SOME STATUS SAVING AND DISPATCHABILITY INDICATORS WHEN ACTIVE OR NOT UNDER THE LOCAL LOCK.
	.1..		TCBS3A	"X'40'"- STAGE 3 EXIT EFFEC- TOR/RESUME/TCTL INTERSECT FLAG
	..1.		TCBLLREQ	"X'20'"- TASK REQUESTED LOCAL LOCK

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
241	(F1) BITSTRING 1... ..	1	TCBX SCT2 TCBCMLF	FLAG BYTE "X'80'" - CML RESOURCE MANAGER PROCESSING COMPLETE FOR THIS CML LOCK HOLDER.
242	(F2) SIGNED .1... ..	2	TCBCMLR TCBCCPVI	"X'40'" - CML LOCK HOLDER READY TO RUN ID OF THE CURRENT CPU RUNNING THIS TASK. USED FOR RECOVERY AND CPU AFFINITY.
244	(F4) ADDRESS	4	TCBFOE	ADDRESS OF FIRST FIX OWNERSHIP ELEMENT (FOE) IN LIST FOR THIS TASK
244	(F4) HEX	1	TCBR0F4	RESERVED.
245	(F5) ADDRESS	3	TCBFOEA	ADDRESS OF FIRST FIX OWNERSHIP ELEMENT (FOE) IN LIST FOR THIS TASK
248	(F8) ADDRESS	4	TCBSWA	ADDRESS OF FIRST SCHEDULER WORK AREA (SWA) SPQE ON SWA SPQE CHAIN
252	(FC) ADDRESS	4	TCBSTAWA	ESTAE ROUTINE WORK AREA POINTER
256	(100) CHARACTER	4	TCBTCBID	CONTAINS BLOCK ID 'TCB '
260	(104) ADDRESS	4	TCBRTM12	POINTER TO PARAMETER AREAS PASSED FROM RTM1 TO RTM2
264	(108) HEX	4	TCBESTAE	AREA TO CONTAIN RECOVERY DATA FOR RTM
264	(108) CHARACTER	1	TCBSCBKY	KEY IN WHICH SYNCH IS TO PASS CONTROL TO THE USER EXIT
265	(109) BITSTRING 1... ..	1	TCBESTRM TCBETERM	ESTAE TERM OPTIONS "X'80'" - ESTAE EXIT ENTERED WITH TERM OPTION
266	(10A) SIGNED .1... ..	1	TCBSTAFX TCBERTYP	"X'40'" - SERIALIZED BY TCB ACTIVE TYPE OF ERROR CAUSING ENTRY TO THE RTM. SET BY RTM1.
267	(10B) SIGNED	1	TCBMODE	MASK INDICATING MODE OF SYSTEM AT TIME OF ERROR. SEE IHART1W/MODE FOR INDIVID- UAL BIT DEFINITIONS.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
268	(10C) ADDRESS	4	TCBUKYSP	ADDRESS OF SPQE'S FOR SUBPOOLS 229 AND 230 (USER KEY STORAGE IN THE PRIVATE AREA)
272	(110) SIGNED	2	TCBSEQNO	DISPATCHING SEQUENCE NUMBER
274	(112) BITSTRING	2	TCBAFFN	CPU AFFINITY INDICATOR
276	(114) BITSTRING	1	TCBFBYTI	FLAG BYTE. SERIALIZATION TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK
	1... ..		TCBEOTFM	"X'80'"- END OF TASK FLAG FOR FREEMAIN. SET TO 1 BY TASK TERMINATION AT START OF TERMINATION PROCESSING AND RESET TO 0 AT FINISH. INDICATES THAT A FREEMAIN ON A BLOCK OF LOCAL STORAGE THAT IS STILL FIXED BY RSM SHOULD RESULT IN A RETURN CODE OF 8 RATHER THAN ABNORMAL TERMINATION.
	.1.. ..		TCBRTM1E	"X'40'"- RTM1 IS CURRENTLY PROCESSING EUT FRR'S FOR THIS TASK
	..1.		TCBNDIOS	"X'20'"- TASK HAS BEEN SET NONDISPATCHABLE VIA STATUSND WHILE SVC 16 (PURGE) SCANS THE RB CHAIN PURGING APPEND-AGE-SCHEDULED ASYNCHRONOUS EXIT ROUTINES RUNNING UNDER AN IRB/RQE OR NON-RESIDENT ERP'S RUNNING UNDER THE SIRB.
	...1		TCBPGNLY	"X'10'"- SET BY RTM2 TO INDICATE ONLY PURGE PHASE TO BE PERFORMED
	.... 1...		TCBRTM2	"X'08'"- SET BY RTM2 TO INDICATE RTM2 HAS BEEN ENTERED FOR THIS TASK
	.... .1..		TCBEOT	"X'04'"- SET BY RTM2 TO INDICATE TO EXIT THAT END OF TASK PROCESSING IS COMPLETE
	.... ..1.		TCBSATTN	"X'02'"- SYNCHRONIZATION OF ATTENTION INTERRUPT REQUIRED BY EXIT PROLOG
	.... ...1		TCBLLH	"X'01'"- LOCALLY LOCKED TCB HAS PAGE FAULTED, AND I/O IS REQUIRED (FIRST LEVEL INTERRUPT HANDLER)
277	(115) BITSTRING	1	TCBFBYT2	FLAG BYTE. SERIALIZATION TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK
	1... ..		TCBCNCB	"X'80'"- SET BY RTM2 IN THE JOB STEP TCB WHEN IT HAS BEEN ENTERED ON THE TCB FOR

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.1..		TCBFMW	AN X22 ABEND "X'40'"- MOTHER WAITING FLAG. TURNED ON IN A SUBTASK IN RTM2 PROCESSING WHEN AN ANCESTOR TASK IS WAITING TO ABEND IT.
	..1.		TCBFDW	"X'20'"- DAUGHTER WAITING FLAG. TURNED ON IN A MOTHER TASK IN RTM2 PROCESSING WHEN A DAUGHTER IS WAITING TO ABEND IT.
	...1		TCBFPRAP	"X'10'"- SET BY RTM2 TO PREVENT PERCOLATION TO THE TASK OF AN ASYNCHRONOUS ABEND
	.... 1...		TCBSSYN	"X'08'"- SYNCHRONIZED STATUS STOP PENDING FOR THIS TCB
	.... .1..		TCBECBNV	"X'04'"- IF 1, ECB POINTED TO BY TCBECS IS NOT TO BE VALIDITY CHECKED. IF 0, ECB POINTED TO BY TCBECS IS TO BE VALIDITY CHECKED.
	.... ..1.		TCBSSPC	"X'02'"- STATUS STOP PENDING, TASK HOLDS A CML LOCK
	.... ...1		TCBRTM1C	"X'01'"- A TASK WITH EUT FRRS HAS BEEN CANCELLED. THIS FLAG PASSES THE CANCEL REQUEST FROM RTM1 TO RTM2.
278	(116) BITSTRING 1...	1	TCBFBYT3 TCBEXP	FLAG BYTE "X'80'"- EXPANDED VERSION OF THE TCB
279	(117) BITSTRING	1	TCBR117	RESERVED.
280	(118) ADDRESS	4	TCBRPT	ADDRESS OF RADIX PARTITION TREE FOR LOCAL STORAGE MANAGEMENT
284	(11C) ADDRESS	4	TCBVAT	ADDRESS OF THE VAT (VSAM). THERE IS ONE VAT PER JOB STEP TCB.
288	(120) ADDRESS	4	TCBSWASA	ADDRESS OF SAVE AREA USED BY SWA MANAGER
292	(124) ADDRESS	4	TCBSVCA2	ADDRESS OF SVC SCREENING TABLE
296	(128) CHARACTER	1	TCBR128(12)	RESERVED.
308	(134) SIGNED	4	TCBGRES	TASK GLOBAL RESOURCE COUNT NUMBER OF GLOBAL RESOURCES OWNED BY THIS TASK
312	(138) HEX	19	TCBR138	RESERVED FOR EXPANSION

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
331	(14B) BITSTRING	1	TCBLEVEL	LEVEL NUMBER OF TCB
	.... ...1		TCBVS01A	"X'01'"- JBB1337 FEATURE
	.... ...1		TCBVS01B	"X'01'"- JBB1356
	.... ...1		TCBVERS	"X'01'"- LEVEL OF THIS MAPPING
332	(14C) ADDRESS	4	TCBBDT	ADDRESS OF BDT'S GSD LINKAGE CONTROL BLOCK
336	(150) SIGNED	4	TCBNDAXP	COUNT THE NUMBER OF CONSECUTIVE DISPATCHES REQUIRED ON A CP BEFORE THE TASK CAN BE DISPATCHED ON AN AXP.
340	(154) ADDRESS	4	TCBSENV	ADDRESS OF ACEE FOR THE TASK. THE ACEE DESCRIBES THE RACF AUTHORIZATION FOR THE TASK. OWNER: RACF SERIALIZATION: NONE, ONLY UPDATED BY TASK ITSELF
344	(158) FLOATING	8	TCBMNLEN	"*-TCB"- LENGTH OF MAIN SECTION OF TCB

OS/VS1 - OS/VS2 COMMON EXTENSION
 ADDRESS OF EXTENSION IS IN TCBEXT2

0	(0) STRUCTURE	0	TCBXTNT2	, START OF EXTENSION
0	(0) ADDRESS	4	TCBGTF	ADDRESS OF GENERALIZED TRACE FACILITY (GTF) TEMPORARY TRACE BUFFER
0	(0) BITSTRING	1	TCBFLG	GTF FLAG BYTE
	1...		TCBASYN	"X'80'"- GTF ASYNCHRONOUS GATHER ROUTINE IS IN CONTROL
	.1...		TCBERRTN	"X'40'"- GTF ASYNCHRONOUS GATHER ERROR ROUTINE IS IN CONTROL
	..1.		TCBDSPIT	"X'20'"- MACHINE CHECK INTERRUPTION HANDLER SHOULD UNCONDITIONALLY BRANCH TO THE DISPATCHER
1	(1) ADDRESS	3	TCBGTF	ADDRESS OF GTF TEMPORARY TRACE BUFFER

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
4	(4) SIGNED	1	TCBR004X	RESERVED.
5	(5) BITSTRING	3	TCBRCMP	MOST RECENT ABEND COMPLETION CODE (INCLUDING VALID RECURSIONS IN STAE)
8	(8) ADDRESS	4	TCBEVENT	ADDRESS OF EVENT TABLES QUEUE
12	(C) SIGNED	4	TCBRTMCT	COUNT OF TOKENS USED FOR ESTAE. SERIALIZATION CS. OWNERSHIP RTM.
16	(10) ADDRESS	4	TCBTQE	ADDRESS OF A REUSABLE TASK-RELATED TQE (OS/V52)
20	(14) ADDRESS	4	TCBCAUF	ADDRESS OF SUBSYSTEM FACILITY CONTROL BLOCK (OS/V52)
24	(18) ADDRESS	4	TCBPERCP	POINTER TO A QUEUE OF SPIS. AN SPI REPRESENTS THE PERCOLATION OF AN SRB'S FRR TO THE RELATED TASK. SERIALIZATION TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK. OWNERSHIP RTM.
	1... ..		TCBRCVRY	"X'80'"- TASK IS IN RECOVERY. SERIALIZATION TCBACTIV. OWNERSHIP RTM.
28	(1C) SIGNED	4	TCBPERCT	COUNT OF SRB MODE FRRS WAITING TO PERCOLATE TO THIS TASK, BUT NOT REPRESENTED IN SPI QUEUE (TCBPERCP). SERIALIZATION TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK. OWNERSHIP RTM.
32	(20) FLOATING ..1.	8	TCBX2LEN TCBLEN	FORCE LENGTH EQUATE TO DOUBLE WORD "X-TCBXTNT2"LENGTH OF COMMON EXTENSION "TCBPXLEN+TCBMNLEN+TCBX2LEN"- TCB LENGTH INCLUDING PREFIX (VALID IF SYS=AOS1 OR SYS=AOS2, BUT NOT VALID IF SYS=BOTH) END OF TCB

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PNONDISP	AD	40	TCBCONVR	B4	32	TCBEVENT	8	
TCB	0	20	TCBCPP	10	20	TCBEXCPD	C0	
TCBABCUR	EC		TCBCPU	CA	20	TCBEXP	116	80
TCBABD	AE	80	TCBCPUBN	94	01	TCBEXSVC	CC	01
TCBABE	AE	01	TCBCREQ	10	80	TCBEXT1	C4	
TCBABF	14		TCBCSTEP	10	40	TCBEXT1A	C5	
TCBABGM	1F	10	TCBCWTO	10	04	TCBEXT2	D0	
TCBABTIN	AD	01	TCBDAMSG	B4	0B	TCBEXT2A	D1	
TCBABTRM	1F	20	TCBDAR	CC		TCBFA	1D	80
TCBABWF	21	40	TCBDARC	CC	10	TCBFABOP	1E	20
TCBACTIV	F0	80	TCBDARD	CC	20	TCBFBYT1	114	
TCBADMP	CB	02	TCBDARET	B4	33	TCBFBYT2	115	
TCBADUMP	B4	07	TCBDARMC	CC	10	TCBFBYT3	116	
TCBAECB	D4		TCBDARMS	CC	02	TCBFC	21	80
TCBAFFN	112		TCBDARO	CC	08	TCBFCD1	21	02
TCBANDSP	21	10	TCBDARP	CC	80	TCBFDSOP	1E	04
TCBAPG	CA	02	TCBDARPN	AD	40	TCBFDW	115	20
TCBAQE	9C		TCBDARS	CC	40	TCBFE	1D	40
TCBAREQ	AF	04	TCBDARTN	AD	80	TCBFERA	1D	20
TCBASYNCR	0	80	TCBDARWT	CC	04	TCBFETXR	1E	02
TCBATT	94	20	TCBDDRND	AD	08	TCBFIX	0	
TCBBACK	DC		TCBDEB	8		TCBFJMC	1E	08
TCBBDT	14C		TCBDMPO	10	20	TCBFLAG	1C	F0
TCBBITS	C8		TCBDSP	23		TCBFLGS	1D	
TCBCASID	10	08	TCBDSPIT	0	20	TCBFLGS1	1D	
TCBCAUF	14		TCBDSS	AE	02	TCBFLGS2	1E	
TCBCCPVI	F2		TCBDSSID	EE	F9	TCBFLGS3	1F	
TCBCDBL	10	08	TCBDWSTA	1F	01	TCBFLGS4	20	
TCBCIND	10	02	TCBDYDSP	94	02	TCBFLGS5	21	
TCBCLOSD	B4	02	TCBDYNAM	B4	0A	TCBFLGS6	CA	
TCBCLOSE	B4	03	TCBECB	90		TCBFLGS7	CB	
TCBCLOSF	B4	04	TCBECBNV	115	04	TCBFMW	115	40
TCBCMLF	F1	80	TCBENQRM	1F	02	TCBFOE	F4	
TCBCMLR	F1	40	TCBEOT	114	04	TCBFOEA	F5	
TCBCMP	10		TCBEOTFM	114	80	TCBFOINP	1E	80
TCBCMPC	11		TCBERRTN	0	40	TCBFPRAP	115	10
TCBCMPF	10		TCBERTYP	10A		TCBFRS	-20	
TCBCMSG	10	01	TCBESTAE	108		TCBFRS0	-20	
TCBCNCB	115	80	TCBESTRM	109		TCBFRS2	-18	
TCBCOMM	EE	FD	TCBETERM	109	80	TCBFRS4	-10	

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
TCBFRS6	-8		TCBJLB	28		TCBNOCHK	14	40
TCBFS	1D	02	TCBJPQ	2C		TCBNONPR	1D	10
TCBFSA	70		TCBJPQB	2D		TCBNOSTA	B4	30
TCBFSAAB	71		TCBJPQF	2C	80	TCBNSSP	E4	
TCBFMS	1F	80	TCBJSCB	B4		TCBNSSQA	E4	80
TCBFMSMC	1E	10	TCBJSCBB	B5		TCBNSTAE	A0	
TCBFSTI	1E	40	TCBJSTCA	7D		TCBNTC	80	
TCBFT	1D	04	TCBJSTCB	7C		TCBNTJS	CA	01
TCBFTS	1E	01	TCBLEN	20	0198	TCBOLTEP	14	02
TCBFX	1D	01	TCBLEVEL	14B		TCBONDSP	20	01
TCBGPECB	CB	80	TCBLJSND	AF	80	TCBOPEN	B4	01
TCBGREC	B4	05	TCBLLH	114	01	TCBOTC	84	
TCBGRES	134		TCBLLREQ	F0	20	TCBOWAIT	AE	04
TCBGRPH	14	20	TCBLLS	24		TCBPAGE	21	20
TCBGRS	30		TCBLMP	22		TCBPAGID	EE	FF
TCBGRS0	30		TCBLOGID	EE	F8	TCBPDUMP	1D	08
TCBGRS1	34		TCBLTC	88		TCBPERCP	18	
TCBGRS10	58		TCBMASTR	EE	FB	TCBPERCT	1C	
TCBGRS11	5C		TCBMCCNS	B4	40	TCBPGNLY	114	10
TCBGRS12	60		TCBMDIDS	B0		TCBPIE	4	
TCBGRS13	64		TCBMESG	B4	09	TCBPIEA	5	
TCBGRS14	68		TCBMIGR	CA	04	TCBPIEND	AD	02
TCBGRS15	6C		TCBMNLEN	158	0158	TCBPIE17	CA	40
TCBGRS2	38		TCBMODE	10B		TCBPKF	1C	
TCBGRS3	3C		TCBMOD91	14	80	TCBPM	4	0F
TCBGRS4	40		TCBMSS	18		TCBPMASK	4	
TCBGRS5	44		TCBMSSB	19		TCBPNDSP	21	01
TCBGRS6	48		TCBNDAXP	150		TCBPPSUP	A0	10
TCBGRS7	4C		TCBNDINT	AF	01	TCBPQE	98	
TCBGRS8	50		TCBNDIOS	114	20	TCBPTAXE	B4	08
TCBGRS9	54		TCBNDSP	AC		TCBPURGE	2C	
TCBGTF	0		TCBNDSP0	AC		TCBPXLEN	-8	20
TCBGTFFA	1		TCBNDSP1	AD		TCBQTIP	B4	0C
TCBGTOFM	CB	01	TCBNDSP2	AE		TCBQUIES	A0	40
TCBHALT	A0	08	TCBNDSP3	AF		TCBRBP	0	
TCBHNDSP	20	10	TCBNDSP4	C8		TCBRBWF	20	04
TCBINDRC	B4	0E	TCBNDSP5	C9		TCBRCMP	5	
TCBIOBRC	BC		TCBND SVC	AE	20	TCBRCVRY	18	80
TCBIO RMS	EE	FC	TCBNDTS	AE	10	TCBREC	B4	80
TCBIQE	8C		TCBNDUMP	20	80	TCBRECDE	B4	
TCBIWAIT	AE	08	TCBNEW RB	B4	35	TCBRPT	118	
TCBJES	EE	FA	TCBNOCC	10	10	TCBRQENA	20	20

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TCBRSPND	AD	10	TCBSTAB	A0		TCBTIOTG	94	10
TCBRSTND	AD	20	TCBSTABB	A1		TCBTME	78	
TCBRSTSK	CB	04	TCBSTABE	A0	80	TCBTSP	AD	04
TCBRTMCT	C		TCBSTACK	CB	10	TCBTQE	10	
TCBRTM1C	115	01	TCBSTAFX	109	40	TCBTQET	78	80
TCBRTM1E	114	40	TCBSTAWA	FC		TCBTRN	14	
TCBRTM12	104		TCBSTCC	10	10	TCBTRNB	15	
TCBRTM2	114	08	TCBSTCUR	A0	01	TCBTSDP	97	
TCBRTWA	E0		TCBSTMCT	CF		TCBTSFLG	94	
TCBRT1S	1F	40	TCBSTP	21	04	TCBTSLP	96	
TCBRV	CA	80	TCBSTPCT	95		TCBTSTSK	94	80
TCBR0CD	CD		TCBSTPP	AE	40	TCBTYP1R	B4	34
TCBR0C4	C4		TCBSTPPR	94	40	TCBTYP1W	B4	10
TCBR0ED	ED		TCBSTRET	B4	31	TCBKYSP	10C	
TCBR0EF	EF		TCBSVCA2	124		TCBUSER	A8	
TCBR0F4	F4		TCBSVCS	CB	08	TCBUXNDF	21	40
TCBR004X	4		TCBSVCSP	CB	20	TCBUXNDV	20	08
TCBR018	18		TCBSWA	F8		TCBVAT	11C	
TCBR07C	7C		TCBSWASA	120		TCBVERS	14B	01
TCBR117	117		TCBSYERR	EE	FE	TCBVS01A	14B	01
TCBR128	128		TCBSYNCH	A0	04	TCBVS01B	14B	01
TCBR138	138		TCBSYS	21	08	TCBVTAM1	B4	21
TCBSATTN	114	02	TCBSYSCT	CE		TCBVTAM2	B4	22
TCBSAVCD	B4	0F	TCBS3A	F0	40	TCBVTAM3	B4	23
TCBSCBKY	108		TCBS3MR	AF	08	TCBVTAM4	B4	24
TCBSCNDY	AC		TCBTCAMP	B4	0D	TCBWTPE	B4	20
TCBSENV	154		TCBTCB	74		TCBXLAS	E8	
TCBSEQNO	110		TCBTCBID	100		TCBXS	D8	
TCBSER	20	40	TCBTC	14	04	TCBXST	F0	
TCBSLPER	AF	10	TCBTCPP	14	08	TCBXST1	F0	
TCBSMFGF	A4	80	TCBTC	A4		TCBXST2	F1	
TCBSPVLK	CA	10	TCBTCB	A5		TCBXTNT2	0	
TCBSRBND	AF	20	TCBTCGF	A4		TCBX2LEN	20	20
TCBSSAT	B8		TCBTFLG	0		TCBZERO	1C	0F
TCBSSPC	115	02	TCBTID	EE		TCB33E	A0	20
TCBSSSYN	115	08	TCBTIO	C		TNONDISP	AD	80

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TCCW

Common Name : IOS Translation Control Block
 Macro ID : IECDTCCW
 DSECT Name : TCCW
 Created by : Caller of the CCW translation module, IECVTCCW
 Subpool and Key : For EXCP 245 and key 0
 Size : 160 bytes
 Pointed to by : RQETCCW field of the RQE data area
 Serialization : LOCAL lock
 Function : Used by callers of the CCW translation module to request its services, the principal one being the translation of a virtual channel program into a real one. The TCCW points to the BEB that the CCW translation module is to use in building the real channel program.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	TCCW	
0	(0) ADDRESS	4	TCCWTCB	ADDRESS OF TCB FOR THIS REQUEST
4	(4) HEX	1	TCCWOPTN	OPTION BYTE DESCRIBING WORK TO BE DONE BY CCW TRANSLATOR
	.... ....		TCCWXLAT	"0" TRANSLATE CCWS
	.... .1..		TCCWCSWX	"4" TRANSLATE CSW OR PASSES ADDRESS
	.... 1...		TCCWUNFX	"8" UNFIX DATA AREA SET UP FREE LST
	.... 11..		TCCWGTMN	"12" TCCW 160B BLK REQUEST TO CALLER AND RETURN
	...1		TCCWSATR	"16" SINGLE ADDRESS TRANSLATION TCCW ERROR RETURN CODES----
	1...		TCCWPGER	"X'80'" PAGE FIX ERROR
	1..1		TCCWTRER	"X'90'" TRANSLATION ERROR
	1.1.		TCCWIDAE	"X'A0'" IDA BIT ERROR IN VIRT CP
	1.11		TCCWERRB	"X'B0'" RESERVED
	11..		TCCWERRC	"X'C0'" RESERVED
	11.1		TCCWVMER	"X'D0'" VALMAP ERROR
	111.		TCCWVLER	"X'E0'" VAL CK ERROR IN VIRT CP
	1111		TCCWERRF	"X'F0'" RESERVED
5	(5) ADDRESS	3	TCCWUCB	ADDRESS OF ASSOCIATED UCB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
8	(8) ADDRESS	4	TCCWBEB	ADDRESS OF FIRST BEB
12	(C) ADDRESS	4	TCCWFIX	ADDRESS OF FIRST FIX LIST
16	(10) ADDRESS	4	TCCWFVC	ADDRESS OF FIRST VIRTUAL CCW
20	(14) ADDRESS	4	TCCWFRC	ADDRESS OF FIRST REAL CCW
24	(18) ADDRESS	4	TCCWPLKR	ADDRESS OF NEXT FIX LIST ENTRY
28	(1C) ADDRESS	4	TCCWINDA	ADDRESS OF FIRST IDAL
32	(20) ADDRESS	4	TCCWTICL	ADDRESS OF UNRESOLVED TIC LIST
36	(24) ADDRESS	4	TCCWINDR	ADDRESS OF NEXT IDAL POINTER
40	(28) ADDRESS	4	TCCWCCWR	ADDRESS OF NEXT VIRTUAL CCW
44	(2C) HEX	1	TCCWMODB	TRANSLATOR FLAG BYTE
	1... ..		TCCWFCHN	"X'80'" FREE CHAIN CONSTRUCTED
	.1.. ..		TCCWVLCK	"X'40'" VIRTUAL CP VALIDITY CHECK
	..1.		TCCWRSV3	"X'20'" RESERVED
	...1		TCCWRSV4	"X'10'" RESERVED
	.... 1...		TCCWRSV5	"X'08'" RESERVED
	.... .1..		TCCWPC10	"X'04'" AN INVALID IDAL ENTRY REQD
	.... ..1.		TCCWPGCK	"X'02'" PAGE FIX/UNFIXING ACTIVE.
	.... ...1		TCCWECEBU	"X'01'" ECB IN USE.
45	(2D) HEX	1	TCCWCCWL	NUMBER OF CCWS LEFT IN BEB
46	(2E) HEX	1	TCCWINDL	NUMBER OF IDAS LEFT IN IDAL
47	(2F) HEX	1	TCCWEFOP	NUMERIC PORTION OF CURRENT COMMAND
48	(30) ADDRESS	4	TCCWCCWA	NEXT VIRTUAL CCW
52	(34) ADDRESS	4	TCCWTICA	TIC-ED TO ADDRESS
56	(38) ADDRESS	4	TCCWLOCA	LOW COMPARE ADDRESS
60	(3C) ADDRESS	4	TCCWHICA	HIGH COMPARE ADDRESS
64	(40) ADDRESS	4	TCCWCBEB	CURRENT BEB POINTER

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
68	(44) HEX	1	TCCWOPBT	PREVIOUS OP BYTE
68	(44) ADDRESS	4	TCCWOPTR	PREVIOUS CCW ADDRESS
72	(48) HEX	32	TCCWSAVE	160 BYTE BLK REG SAVE AREA
72	(48) ADDRESS	4	TCCWSAVD	SAVE AREA FOR REG 13
76	(4C) ADDRESS	4	TCCWSAV4	SAVE AREA FOR REG 4
80	(50) ADDRESS	4	TCCWSAV5	SAVE AREA FOR REG 5
84	(54) ADDRESS	4	TCCWSAV6	SAVE AREA FOR REG 6
88	(58) ADDRESS	4	TCCWSAV7	SAVE AREA FOR REG 7
92	(5C) ADDRESS	4	TCCWSAV8	SAVE AREA FOR REG 8
96	(60) ADDRESS	4	TCCWSAV9	SAVE AREA FOR REG 9
100	(64) ADDRESS	4	TCCWSAVA	SAVE AREA FOR REG A
104	(68) HEX	56	TCCWRGSV	TRANSLATOR REG SAVE AREA
104	(68) ADDRESS	4	TCCWREG1	SAVE AREA FOR REG 1
108	(6C) ADDRESS	4	TCCWREG2	SAVE AREA FOR REG 2
112	(70) ADDRESS	4	TCCWREG3	SAVE AREA FOR REG 3
116	(74) ADDRESS	4	TCCWREG4	SAVE AREA FOR REG 4
120	(78) ADDRESS	4	TCCWREG5	SAVE AREA FOR REG 5
124	(7C) ADDRESS	4	TCCWREG6	SAVE AREA FOR REG 6
128	(80) ADDRESS	4	TCCWREG7	SAVE AREA FOR REG 7
132	(84) ADDRESS	4	TCCWREG8	SAVE AREA FOR REG 8

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
136	(88) ADDRESS	4	TCCWREG9	SAVE AREA FOR REG 9
140	(8C) ADDRESS	4	TCCWREGA	SAVE AREA FOR REG 10
144	(90) ADDRESS	4	TCCWREGB	SAVE AREA FOR REG 11
148	(94) ADDRESS	4	TCCWREGC	SAVE AREA FOR REG 12
152	(98) ADDRESS	4	TCCWREGD	SAVE AREA FOR REG 13
156	(9C) ADDRESS 1.1.	4	TCCWREG TCCWBL	SAVE AREA FOR REG 14 "*-TCCW" BLOCK LENGTH OF TCCW

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TCT

Common Name : SMF Timing Control Table

Macro ID : IEFTCT

DSECT Name : SMFTCT

Created by : IEFMFIE

Subpool and Key : 255 and key 1

Size : Variable

Pointed to by : TCBTCT field of the TCB data area.

Serialization : Compare and Swap on some fields.

Function : Contains job-related and step-related information and storage tables, and TCT I/O lookup and counter tables.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SMFTCT	, START OF TCT
0	(0) CHARACTER	3	TCTQA	QUEUE ADDRESS OF TCT
3	(3) BITSTRING	1	TCTEXP	JOB/STEP TIME INDICATOR MASK
3	(3) BITSTRING	1	TCTSW	TCT SWITCHES
1... ..			TCTJSTI	"BIT0"- TQE JOB/STEP TIME INDICATOR. IF 0, TQE CONTAINS STEP TIME. IF 1, TQE CONTAINS JOB TIME.
.1... ..			TCTIEX	"BIT1"- ERROR IN TCT I/O TABLE I/O COUNTS (OS/V52)
..1.			TCTISK30	"BIT2,,C'X'"- TYPE 30 INTERVAL RECORD SKIPPED
...1			TCTISK32	"BIT3,,C'X'"- TYPE 32 INTERVAL RECORD SKIPPED
.... 1...			TCTIABD	"BIT4,,C'X'"- PREVIOUS INTERVAL ABENDED
.... .1..			TCTRSV05	"BIT5,,C'X'"- RESERVED
.... ..1.			TCTRSV06	"BIT6,,C'X'"- RESERVED
.... ...1			TCTRSV07	"BIT7,,C'X'"- RESERVED
4	(4) ADDRESS	4	TCTTCB	ADDRESS OF THE INITIATOR TCB
8	(8) ADDRESS	4	TCTCRTBL	ADDRESS OF THE TCT STORAGE TABLE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) ADDRESS	4	TCTIOTBL	ADDRESS OF THE TCT I/O TABLE. TCT I/O TABLE IS NOT NECESSARILY CONTIGUOUS WITH THE TCT.
16	(10) SIGNED	4	TCTPOOL	SUBPOOL/LENGTH FOR TCT PROPER
16	(10) SIGNED	2		SUBPOOL IN WHICH THE TCT RESIDES
18	(12) SIGNED	2	TCTSZE	SIZE IN BYTES OF THE TCT AND THE TCT STORAGE TABLE
20	(14) ADDRESS	4	TCTUTL	ADDRESS OF USER TIME LIMIT ROUTINE
24	(18) ADDRESS	4	TCTUDATA	ADDRESS OF A ONE-WORD PARAMETER LIST WHICH POINTS TO THE JOB MANAGEMENT RECORD (JMR)
28	(1C) ADDRESS	4	TCTJMR	ADDRESS OF THE JOB MANAGEMENT RECORD
32	(20) SIGNED	4	TCTCPUS	ACCUM SESSION CPU SERVICE(OS/V52) G50FPRL
32	(20) HEX	4	TCTRSV08	TCTUS0 FIELD RESERVED IN OS/V5
36	(24) SIGNED	4	TCTJSTX	AMOUNT OF TIME THAT JOB OR STEP HAS BEEN EXTENDED BY USER EXIT IEFUTL (32-BIT UNSIGNED BINARY NUMBER) (OS/V52)
36	(24) SIGNED	4	TCTSTOF	OVERFLOW FIELD FOR USER-SUPPLIED STEP TIME EXTENSIONS (OS/V51)
40	(28) SIGNED	4	TCTTJLM	CONTAINS REMAINING JOB TIME (32-BIT UNSIGNED BINARY NUMBER) (OS/V52)
40	(28) SIGNED	4	TCTSACT	A RUNNING TOTAL OF THE USER-SUPPLIED STEP TIME EXTENSIONS EXPRESSED IN TIMER UNITS (OS/V51)
44	(2C) SIGNED	4	TCTIOCS	ACCUM SESSION I/O SERVICE(OS/V52) G50FPRL

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44	(2C) SIGNED	4	TCTWLMT	THE JOB OR STEP MAXIMUM WAIT TIME LIMIT AS SPECIFIED IN SMFDEFLT, EXPRESSED IN TIMER UNITS (OS/VS1) RESERVED SET TO ZERO (OS/VS2)
48	(30) SIGNED	4	TCTLIN	TSO COUNT OF LINES OF TERMINAL INPUT
52	(34) SIGNED	4	TCTLOUT	TSO COUNT OF LINES OF TERMINAL OUTPUT
56	(38) SIGNED	4	TCTAST	THE TIME OF DAY (TO ONE HUNDREDTH OF A SECOND) THAT DEVICE ALLOCATION STARTED
60	(3C) SIGNED	4	TCTPPST	THE TIME OF DAY (TO ONE HUNDREDTH OF A SECOND THAT THE PROBLEM PROGRAM WAS INITIALLY LOADED INTO MAIN STORAGE
64	(40) CHARACTER	20	TCTPGSMF	SMF REGION-RELATED STATISTICS (OS/VS1)
64	(40) SIGNED	4	TCTAJS	ACCUMULATED SESSION SERVICE TIME (OS/VS2)
64	(40) SIGNED	4	TCTPGIN	TOTAL PAGE-INS FOR THIS REGION (INCLUDING SWAP-INS) (OS/VS1)
68	(44) SIGNED	4	TCTACT	ACCUMULATED ACTIVE TIME (OS/VS2)
68	(44) SIGNED	4	TCTPGOUT	TOTAL PAGE-OUTS FOR THIS REGION (INCLUDING SWAP-OUTS) (OS/VS1)
72	(48) SIGNED	4	TCTATR	ACCUMULATED TRANSACTION RESIDENCY TIME (OS/VS2)
72	(48) SIGNED	4	TCTRGNS	TOTAL SWAPS PERFORMED FOR THIS TSO USER (SWAP-INS + SWAP-OUTS) (OS/VS1)
76	(4C) SIGNED	4	TCTMSOS	ACCUM SESSION MAIN STORAGE SERVICE (OS/VS2)
76	(4C) SIGNED	4	TCTSIN	TOTAL PAGES SWAPPED-IN FOR THIS TSO USER (OS/VS1)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
80	(50) SIGNED	4	TCTSRBS	ACCUM SESSION SRB SERVICE (OS/VS2)
80	(50) SIGNED	4	TCTSOUT	TOTAL PAGES SWAPPED-OUT FOR THIS TSO USER (OS/VS1)
84	(54) SIGNED	4	TCTPDASD	NO OF MOUNTS FOR NONSPECIFIC DASD
88	(58) SIGNED	4	TCTRDASD	NO OF MOUNTS FOR SPECIFIC DASD
92	(5C) SIGNED	4	TCTPTAPE	NO OF MOUNTS FOR NONSPECIFIC TAPE
96	(60) SIGNED	4	TCTRTAPE	NO OF MOUNTS FOR SPECIFIC TAPE
100	(64) SIGNED	4	TCTPMSS	NO OF MOUNTS FOR NONSPECIFIC MSS
104	(68) SIGNED	4	TCTRMSS	NO OF MOUNTS FOR SPECIFIC MSS
108	(6C) SIGNED	4	TCTEJST	LAST VALUE OF ELASPED TCB TIME
112	(70) SIGNED	4	TCTSRBT	LAST VALUE OF ELAPSED SRB TIME
116	(74) SIGNED	4	TCTSVTEP	LAST VALUE OF TOTAL BLOCK COUNT
120	(78) SIGNED	4	TCTLINSV	LAST VALUE OF TPUT COUNT
124	(7C) SIGNED	4	TCTLOUTS	LAST VALUE OF TGET COUNT
128	(80) SIGNED	4	TCTTRAN	LAST VALUE OF FOREGROUND TRANS
132	(84) SIGNED	4	TCTITCB	INITIATOR TCB TIME
136	(88) SIGNED	4	TCTISRB	INITIATOR SRB TIME
140	(8C) SIGNED	4	TCTT30J	ADDRESS OF JOB TOTAL TYPE 30 RCD
144	(90) SIGNED	4	TCTT30S	ADDRESS OF STEP TOTAL TYPE 30 RCD
148	(94) SIGNED	4	TCTT30H	ADDRESS OF EXCP HOLD TYPE 30 RCD
152	(98) SIGNED	4	TCTLCTAD	ADDRESS OF LCT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
156	(9C) SIGNED	4	TCTT32J	ADDRESS OF JOB TOTAL TYPE 32 RCD
160	(A0) SIGNED	4	TCTT32S	ADDRESS OF STEP TOTAL TYPE 32 RCD
164	(A4) SIGNED	4	TCT32SP	SUBPOOL AND SIZE OF TYPE 32 RCDS
168	(A8) SIGNED	4	TCT32BLK	ADDRESS OF DETAIL CONTROL BLOCK
172	(AC) SIGNED	4		RESERVED
176	(B0) SIGNED	4		RESERVED
180	(B4) SIGNED	4		RESERVED
184	(B8) SIGNED	4	TCTTIMER	ADDRESS OF SMF TIMER ELEMENT
188	(BC) SIGNED	4	TCTMRSP	SUBPOOL AND SIZE OF TIMER ELT
192	(C0) SIGNED	4	TCTPARMS	ADDRESS OF TIMER PARAMETER LIST
196	(C4) SIGNED	4	TCTPRMSP	SUBPOOL AND SIZE OF PARM LIST
200	(C8) CHARACTER	8	TCTSNAME	STEP NAME OF CURRENT STEP
208	(D0) SIGNED	4	TCTJTCPT	STEP TCB CP TIME
212	(D4) SIGNED	4	TCTJTAXT	STEP TCB UNNORMALIZED AXP TIME
216	(D8) SIGNED	4	TCTJSCPT	STEP SRB CP TIME
220	(DC) SIGNED	4	TCTJSAXT	STEP SRB UNNORMALIZED AXP TIME
224	(E0) SIGNED	4	TCTITCPT	INIT TCB CP TIME
228	(E4) SIGNED	4	TCTITAXT	INIT TCB UNNORMALIZED AXP TIME
232	(E8) SIGNED	4	TCTISCPT	INIT SRB CP TIME
236	(EC) SIGNED 1111	4	TCTISAXT TCTCOMZ	INIT SRB UNNORMALIZED AXP TIME "X-SMFTCT"- LENGTH OF TCT COMMON SECTION

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OFFSETS TYPE LENGTH NAME DESCRIPTION

TCT INPUT/OUTPUT TABLE
 THE TCT I/O TABLE IS COMPOSED OF THE TCT I/O LOOKUP TABLE AND THE TCT I/O COUNTER TABLE. THE TCT I/O TABLE IS NOT NECESSARILY CONTIGUOUS TO THE TCT. THE TCTIOTBL FIELD OF THE TCT POINTS TO IT.

TCT I/O LOOKUP TABLE
 THE TCT I/O LOOKUP TABLE CONTAINS A COMMON SECTION AND A DD LOOKUP TABLE ENTRY FOR EACH DD ENTRY IN THE TIOT.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
			TCTTIOT	"*" - BEGINNING OF TCT I/O TABLE
272	(110) SIGNED	4	TCTPLEXT	SUBPOOL/LENGTH OF TCT I/O TABLE
272	(110) SIGNED	2		SUBPOOL IN WHICH THE TCT I/O TABLE RESIDES
274	(112) SIGNED	2	TCTSZEXT	SIZE IN BYTES OF TCT I/O TABLE
276	(114) SIGNED	2	TCTSZLKP	NUMBER OF DEVICE ENTRIES IN THE TCT TCTDDLLEN TABLE TIMES 16
278	(116) HEX	2	TCTRSV11	RESERVED
....	1...		TCTCOMIO	"*" - TCTTIOT - LENGTH OF TCT I/O TABLE COMMON SECTION

DD LOOKUP TABLE ENTRY
 A DD LOOKUP TABLE ENTRY IS CREATED FOR EACH DD ENTRY IN THE TIOT. THE DD LOOKUP TABLE ENTRIES ARE REFERENCED BY THE SYSTEM MANAGEMENT FACILITIES OPTION CODE TO ENTER THE TCT I/O COUNTER TABLE AT THE DD ENTRY CONTAINING THE DEVICE ENTRY FOR THE ACCESSED DEVICE.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
			TCTIODSP	"*" - START OF DD LOOKUP TABLE ENTRY
280	(118) SIGNED	2	TCTDCBTD	OFFSET FROM THE TIOT ORIGIN TO THE TIO-ELNGH FIELD IN THE TIOT ENTRY FOR THE DD STATEMENT ASSOCIATED WITH THE ACCESSED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
282	(11A) SIGNED	2	TCTIOTSD	DATA SET OFFSET FROM THE TCT I/O TABLE ORIGIN TO THE DD ENTRY, WITHIN THE TCT I/O COUNTER TABLE, ASSOCIATED WITH THE ACCESSED DATA SET

284	(11C) SIGNED	4	TCTDCBLE	END OF TCT I/O LOOKUP TABLE (ZEROS)
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TCT I/O COUNTER TABLE
 THE TCT I/O COUNTER TABLE CONSISTS OF ONE DD ENTRY FOR
 EACH DD ENTRY IN THE TIOT
 DD ENTRY
 EACH DD ENTRY CONSISTS OF AN 16-BYTE DEVICE ENTRY REPEATED
 FOR EACH UCB (DEVICE) ASSOCIATED WITH A DD STATEMENT.
 AN 8-BYTE OUTPUT LIMIT EXTENSION IS UNUSED.
 DEVICE ENTRY

			TCTDDENT	"x"- START OF TCT I/O COUNTER TABLE (DE- VICE ENTRY)
288	(120) SIGNED	2	TCTUCBP	ADDRESS OF THE UCB ASSOCIATED WITH THIS DEVICE
290	(122) SIGNED	1	TCTSCTR	NUMBER OF DEVICES ASSOCIATED WITH THIS DD STATEMENT. THIS NUMBER REPRESENTS THE NUMBER OF DEVICE ENTRIES WITHIN THIS DD ENTRY. THIS FIELD CONTAINS ZEROS IN ALL BUT ITS FIRST APPEARANCE IN ANY DD ENTRY. X'FF' INDICATES SYSIN DATA SET (OS/VSI).
291	(123) BITSTRING	1	TCTFLGS	FLAG BYTE
	1...		TCTDDIND	"X'80"- END OF CONCATENATED DD STRING (OS/VSI)
	.1..		TCTVAMDS	"X'40"- VIO DATA SET ENTRY. TCTUCBP FIELD IS ZERO WHEN THIS BIT IS ONE.
	..1.		TCTNOCNT	"X'20"- IF ON, DO NOT COUNT THE EXCP (OS/VSI)
	...1		TCTRSV22	"X'10',,C'X'"- RESERVED
 1..		TCTRSV23	"X'08',,C'X'"- RESERVED
1..		TCTRSV24	"X'04',,C'X'"- RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.		TCTRSV25	"X'02',,,C'X'"- RESERVED
1		TCTRSV26	"X'01',,,C'X'"- RESERVED
292	(124) SIGNED	4	TCTDCTR	COUNTER FOR EXCP'S ISSUED AGAINST THIS UCB (DEVICE)
296	(128) SIGNED 1... ..	2	TCTBLKSZ TCTCBSZ	BLOCK SIZE FOR THIS DD NAME "X'80'" CHANGED BLOCK SIZE IF ON RESERVED ENTRY
298	(12A) SIGNED	2	TCTRSV00	
300	(12C) SIGNED ...1	4	TCTDCTRS TCTDDLLEN	SAVED EXEP COUNT FOR THIS ENTRY "*-TCTUCBP"

OUTPUT LIMIT EXTENSION

304	(130) HEX	4	TCTRSV10	TCTOUTLM FIELD RESERVED IN OS/VS
308	(134) SIGNED	1	TCTEXRLD	A BINARY NUMBER OF EXTENTS RELEASED BY THE DADSM RELEASE ROUTINE. COLLECTED ONLY IF RLSE WAS SPECIFIED IN THE SPACE PARAMETER FOR THIS DATA SET.
309	(135) SIGNED	3	TCTTKRLD	A BINARY NUMBER OF TRACKS RELEASED BY THE DADSM RELEASE ROUTINE. COLLECTED ONLY IF RLSE WAS SPECIFIED IN THE SPACE PARAMETER FOR THIS DATA SET.

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SMFTCT	0		TCTJMR	1C		TCTRSV22	123	10
TCTACT	44		TCTJSAXT	DC		TCTRSV23	123	08
TCTAJS	40		TCTJSCPT	D8		TCTRSV24	123	04
TCTAST	38		TCTJSTI	3	80	TCTRSV25	123	02
TCTATR	48		TCTJSTX	24		TCTRSV26	123	01
TCTBIG	100	0110	TCTJTAXT	D4		TCTRSZ	FA	
TCTBLKSZ	128		TCTJTCPT	D0		TCTRTAPE	60	
TCTCBSZ	128	80	TCTLCTAD	98		TCTSACT	28	
TCTCOMIO	116	08	TCTLIN	30		TCTSCTR	122	
TCTCOMZ	EC	F0	TCTLINSV	78		TCTSIN	4C	
TCTCORE	EC	F0	TCTLOUT	34		TCTSNAME	C8	
TCTCPUS	20		TCTLOUTS	7C		TCTSOUT	50	
TCTCREZ	100	20	TCTLWM	F0		TCTSRBS	50	
TCTCRTBL	8		TCTMINC	F8		TCTSRBT	70	
TCTDCBLE	11C		TCTMSOS	4C		TCTSTOF	24	
TCTDCBTD	118		TCTNOCNT	123	20	TCTSVTEP	74	
TCTDCTR	124		TCTPARMS	C0		TCTSW	3	
TCTDCTRS	12C		TCTPDASD	54		TCTSZE	12	
TCTDDENT	11C	0120	TCTPGIN	40		TCTSZEXT	112	
TCTDDIND	123	80	TCTPGOUT	44		TCTSZLKP	114	
TCTDDLEN	12C	10	TCTPGSMF	40		TCTTCB	4	
TCTEJST	6C		TCTPLEXT	110		TCTTIMER	B8	
TCTEXP	3		TCTPMSS	64		TCTTIOT	100	0110
TCTEXRLD	134		TCTPOOL	10		TCTTJLM	28	
TCTFLGS	123		TCTPPST	3C		TCTTKRLD	135	
TCTHWM	F4		TCTPRMSP	C4		TCTTMRSP	BC	
TCTIABD	3	08	TCTPTAPE	5C		TCTTRAN	80	
TCTIEX	3	40	TCTQA	0		TCTT30H	94	
TCTIOCS	2C		TCTRBA	FC		TCTT30J	8C	
TCTIODSP	116	0118	TCTRDasD	58		TCTT30S	90	
TCTIOTBL	C		TCTRGNS	48		TCTT32J	9C	
TCTIOTSD	11A		TCTRMSS	68		TCTT32S	A0	
TCTISAXT	EC		TCTRSV00	12A		TCTUCBP	120	
TCTISCPT	E8		TCTRSV01	100		TCTUDATA	18	
TCTISK30	3	20	TCTRSV05	3	04	TCTUTL	14	
TCTISK32	3	10	TCTRSV06	3	02	TCTVAMDS	123	40
TCTISRB	88		TCTRSV07	3	01	TCTWLMT	2C	
TCTITAXT	E4		TCTRSV08	20		TCT32BLK	A8	
TCTITCB	84		TCTRSV10	130		TCT32SP	A4	
TCTITCPT	E0		TCTRSV11	116				

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TDCM

Common Name : DIDOCS Pageable DCMs
Macro ID : IEETDCM
DSECT Name : DCMSTRT
Created by : IEDEVET1
Subpool and Key : 229 and key 0
Size : Variable; depends on device type and model.
Pointed to by : DCMADTRN field of the RDCM data area
Serialization : LOCAL and CMS locks
Function : Work and save areas; communications area and module addresses.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	DCMSTRT	DCMSTPTR
0	(0) SIGNED	4	DCMOACRO	CNTL BLK ACRONYM 'TDCM' AFTER OPEN
0	(0) SIGNED	2		TDCM LENGTH BEFORE OPEN
2	(2) SIGNED	2		PADDING FOR LENGTH
4	(4) BITSTRING	1	DCMFLG1	TDCM AREA INDICATORS
	.... ..1.		DCMOUTPT	"X'02'" TDCM UPDATED FOR OUTPUT ONLY
5	(5) HEX	1	DCMATI	SAVED UCB ATTN INDEX
6	(6) ADDRESS	2		RESERVED
8	(8) ADDRESS	4	DCMWTINT	DCMWTINT INITIAL VALUE
12	(C) SIGNED	2	DCMLNCNT	NUMBER OF LINES TO BLANK MC
14	(E) HEX	1	DCMLNNUM	FIRST LINE TO BLANK
15	(F) HEX	1		RESERVED
16	(10) SIGNED	4	DCMPACK	AREA TO PLACE NUMBER FOR PACKING
20	(14) SIGNED	4	DCMCVBIN	AREA FOR CONVERSION TO BINARY

TIMER COMMUNICATION FIELD

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) BITSTRING	1	DCMTIMES	TIME RTNS INDICATOR BYTE
	1... ..		DCMTIMER	"X'80'" TIME ELAPSED FOR THIS DISPLAY
	.1.. ..		DCMOPTTI	"X'40'" OPTIONS TO TI RTN
	...1 ..		DCMOTTMM	"X'10'" OPTIONS OR TI RTNS TO MSG MODULE
	.... .1..		DCMTASYN	"X'04'" TIMER SET FOR ASYNC ERROR MSG
	.... ..1.		DCMOCTTI	"X'02'" OPEN-CLOSE TO TI RTN
	.... ...1		DCMRMTTI	"X'01'" ROLL MODE TO TIMER ROUTINE
25	(19) HEX	1		RESERVED
26	(1A) SIGNED	2	DCMELGN	ENTRY AREA LAST CHARACTER POINTER

ADDRESS TABLE

28	(1C) ADDRESS	4	DCMBUFAD	POINTER TO BUFFER ADDRESS TABLE
32	(20) ADDRESS	4	DCMDOMPK	ADDRESS OF FIRST DOM NUMBER
36	(24) ADDRESS	4	DCMAMTAB	ADDRESS OF FIRST SCT ENTRY
40	(28) ADDRESS	4	DCMADSEC	ADDRESS OF FIRST SSCT ENTRY
44	(2C) ADDRESS	4	DCMADDRL	ADDRESS OF LAST SCT ENTRY
48	(30) ADDRESS	4	DCMASCRN	POINTER TO SCREEN IMAGE BUFFER
52	(34) ADDRESS	4	DCMLSCRN	POINTER TO LAST BUFFER LINE
56	(38) ADDRESS	4	DCMWTBUF	SCREEN LENGTH POINTER
60	(3C) ADDRESS	4	DCMAINS	POINTER TO INSTRUCTION LINE
64	(40) ADDRESS	4	DCMAENTR	POINTER TO ENTRY AREA
68	(44) ADDRESS	4	DCMAWARN	POINTER TO WARNING LINE
72	(48) ADDRESS	4	DCMADCHP	ADDRESS OF CHANNEL PROGRAM AREA

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
284	(11C) BITSTRING	1	DCMCS	OPEN/CLOSE REQUEST
	1... ..		DCMCSC	"X'80'" CLOSE REQUEST
	.1.. ..		DCMCSO	"X'40'" OPEN REQUEST
285	(11D) BITSTRING	1	DCMUTILT	INTERNAL FLAGS
	1... ..		DCMUTILA	"X'80'" THESE BITS ARE
	.1.. ..		DCMUTILB	"X'40'" INITIALIZED AND USED
	..1.		DCMUTILC	"X'20'" SOLELY WITHIN
	...1		DCMUTILD	"X'10'" EACH MODULE
	.... 1...		DCMUTILE	"X'08'" THEY ARE NEVER
	.... .1..		DCMUTILF	"X'04'" USED FOR INTERFACE
	.... ..1.		DCMTEST1	"X'02'" FOR TESTING
	.... ...1		DCMTEST2	"X'01'" FOR TESTING
286	(11E) BITSTRING	1	DCMDSTAT	CURRENT DISPLAY STATUS
	..1.		DCMDSTNM	"X'20'" MESSAGES ARE NUMBERED
	...1		DCMDSTNH	"X'10'" MSGS NUMBERED HOLD OPTION
	.... .1..		DCMDSAUT	"X'04'" AUTOMATIC DELETION TRIED

MCS INTERFACE FIELD

287	(11F) BITSTRING	1	DCMMCSST	MCS INTERFACE BYTE
	1... ..		DCMDUSE	"X'80'" DIDOCS IN CONTROL
	.... .1..		DCMOOMSS	"X'04'" MESSAGE STREAM ENTRY
	.... ...1		DCMOOSDS	"X'01'" STATUS DISPLAY ENTRY

UNIQUE INTERFACE FIELD

288	(120) BITSTRING	1	DCMIOUNQ	UNIQUE IO BYTE
	1... ..		DCMIO226	"X'80'" RMI PERFORMED
	.1.. ..		DCMRPCUR	"X'40'" ADVANCE CURSOR TO BLANKS
	..1.		DCMFRSCN	"X'20'" PUT OUTPUT IN HOLD MODE
	...1		DCMRDARM	"X'10'" PERFORM READ AFTER RMI
	.... 1...		DCMW2250	"X'08'" DEVICE HAS LIGHT PEN
	.... .1..		DCMINNOR	"X'04'" NORMAL INSTRUCTION LINE
1.		DCMINERR	"X'02'" ERROR INSTRUCTION LINE
1		DCMEWASP	"X'01'" ERASE/WRITE ALTERNATE COMMAND SUPPORTED

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OFFSETS TYPE LENGTH NAME DESCRIPTION

I/O COMMUNICATION FIELDS

289	(121)	BITSTRING	1	DCMIOCM1	IO COMMUNICATIONS BYTE 1
	1...	....		DCMDORMI	"X'80'" ISSUE RMI
	.1..	....		DCMSOUND	"X'40'" SOUND ALARM
	..1.	....		DCMWRWRN	"X'20'" WRITE WARNING LINE
	...1	....		DCMWRMSG	"X'10'" WRITE FULL MESSAGE AREA
	....	1...		DCMWRPAR	"X'08'" WRITE PARTIAL MESSAGE AREA
	....	.1..		DCMWRINS	"X'04'" WRITE INSTRUCTION LINE
	....	..1.		DCMWRENT	"X'02'" WRITE ENTRY AREA
	....	...1		DCMINSC	"X'01'" INSERT CURSOR
290	(122)	BITSTRING	1	DCMIOCM2	IO COMMUNICATIONS BYTE 2
	1...	....		DCMBLENT	"X'80'" BLANK ENTRY AREA
	.1..	....		DCMBLWRL	"X'40'" BLANK LEFT HALF WARNING LINE
	..1.	....		DCMBLWRR	"X'20'" BLANK RIGHT HALF WARNING LINE
	...1	....		DCMINSSH	"X'10'" INIT AND SHIFT INSTRUCTION LINE
	....	1...		DCMWINFD	"X'08'" WRITE INFORMATIONAL DISPLAY
	....	.1..		DCMERASE	"X'04'" PERFORM ERASE
	....	..1.		DCMIOCRD	"X'02'" PERFORM READ (2250,22DOC)
	....	...1		DCMWRASY	"X'01'" WRITE ASYNC ERROR MSG TO MID-SCREEN
291	(123)	BITSTRING	1	DCMIOCM3	IO COMMUNICATIONS BYTE 3
	1...	....		DCMOPRMI	"X'80'" RMI AFTER OPEN TO UNLOCK KEY- BOARD
	.1..	....		DCMSSRG	"X'40'" SUPPRESS START REGENERATION
	..1.	....		DCMEWAND	"X'20'" ERASE/WRITE ALTERNATE COMMAND NEEDED
	...1	....		DCMWRPFK	"X'10'" TDCM WRITE PFK AREA
	....	1...		DCMPFKAT	"X'08'" PFK ATTENTION
	....	.1..		DCMRDPFK	"X'04'" PFK AREA READ
	....	..1.		DCMACPFK	"X'02'" EXTINGUISH PFK LIGHTS
	....	...1		DCMLTPFK	"X'01'" LIGHT ALL ALLOCATED PFK LIGHTS
292	(124)	HEX	1	DCMLINEN	LINE NUMBER TO BEGIN WRITE
293	(125)	HEX	1	DCMCULNO	LINE IN ENTRY AREA TO INSERT CURSOR
294	(126)	HEX	1	DCMPOSCU	POSITION TO INSERT CURSOR

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Data Area Descriptions

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251

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OFFSETS TYPE LENGTH NAME DESCRIPTION

ASYNCHRONOUS ERROR COMMUNICATIONS FIELD

295	(127)	BITSTRING	1	DCMASYNC	ASYN ERROR COMMUNICATIONS/RETRY BYTE
	.1..	....		DCMASDA	"X'40'" DATA CHECK RETRY BIT
	..1.	....		DCMASIN	"X'20'" INVALID BUFFER ADDR CHECK RETRY BIT
	...1	....		DCMASBA	"X'10'" BUFFER ADDR PARITY CHECK RETRY BIT
	....	1...		DCMASEWA	"X'08'" PERMANENT ERROR ON EWA DEVICE RETRIED

COMMUNICATION FIELDS

296	(128)	BITSTRING	1	DCMCOM1	COMMUNICATIONS BYTE
	1...	....		DCMLPENT	"X'80'" ENTER BY LP OR CURSOR
	.1..	....		DCMIOPRD	"X'40'" READ PERFORMED
	..1.	....		DCMCOMRM	"X'20'" RMI PERFORMED
	...1	....		DCMCOMAU	"X'10'" PERFORM AUTO DELETE
	....	1...		DCMCOMRD	"X'08'" PERFORM REGULAR DELETE
	....	.1..		DCMCOMNM	"X'04'" NUMBER MESSAGES
	....	..1.		DCMCLEAR	"X'02'" CLEAR KEY WAS PRESSED
	....	...1		DCMCANCL	"X'01'" INDICATE CANCEL TO COMMAND ROUTINE
297	(129)	BITSTRING	1	DCMCOM2	COMMUNICATIONS BYTE
	1...	....		DCMCM2I	"X'80'" INPUT TO BE PROCESSED
	.1..	....		DCMSPLIT	"X'40'" MSG TO BE SPLIT
	..1.	....		DCMCOMAR	"X'20'" ACCEPTED REPLY
	...1	....		DCMREPLC	"X'10'" REPEAT LAST COMMAND KEY (PA1) PRESSED
	....	1...		DCMERPF	"X'08'" ERASE PERF-PROC CAN NOW CLOSE DEVICE
	....	.1..		DCMCMIN5	"X'04'" RETURN TO INTER. 5 FOR BLNK
	....	..1.		DCMCBLNK	"X'02'" BLANKING REQUIRED
1		DCMAE	"X'01'" CLEANUP FOR ASY ERROR
298	(12A)	BITSTRING	1	DCMCOM3	COMMUNICATIONS BYTE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1... ..			DCMCDSP3	"X'80'" DISPLAY 3 COMPLETED WORK
.1..			DCMRTPFK	"X'40'" RETURN TO PFK ROUTINE
..1.			DCMVLPFK	"X'20'" VERIFYING LAST COMMAND
...1			DCMXINT1	"X'10'" ENTRY FOR INTERFACE 1 ROUTINE
.... 1...			DCMOLUNV	"X'08'" O-O-L MSG CAUSED UNVIEW. MSG.
.... .1..			DCMPFKWR	"X'04'" WRITE PFK UPDATES TO LIB
.... ..1.			DCMOLHLD	"X'02'" OUT OF LINE MESSAGES HELD MB
.... ...1			DCMCMIN7	"X'01'" RETURN TO INTER. 7 FOR BLANKING

MESSAGE MODULES COMMUNICATION FIELDS

299	(12B) BITSTRING	1	DCMMSG1	MSG MODULE COMMUNICATIONS BYTE 1
	1... ..		DCMMSGWT	"X'80'" MOVE IN MESSAGE WAITING
	.1..		DCMUNMSG	"X'40'" MOVE IN UNVIEWABLE MESSAGE
	..1.		DCMSTEX	"X'20'" MOVE IN STATUS EXISTS
	...1		DCMCHOPT	"X'10'" MOVE IN CHANGE OPTIONS
	.... 1...		DCMELONG	"X'08'" MOVE IN ENTRY TOO LONG
	.... .1..		DCMWRCDL	"X'04'" MOVE IN CON=N,DEL=Y
	.... ..1.		DCMDELNT	"X'02'" MOVE IN DEL UNCHANGED, NO TIMER
300	(12C) BITSTRING	1	DCMMSG2	MSG MODULE COMMUNICATIONS BYTE 2
	1... ..		DCMDLREQ	"X'80'" MOVE IN DELETION REQUESTED
	.1..		DCMRQINC	"X'40'" MOVE IN REQUEST INCONSISTENT
	..1.		DCMMSGCR	"X'20'" MOVE IN INVALID CURSOR OPERATION
	...1		DCMINVOP	"X'10'" MOVE IN INVALID OPERAND
	.... 1...		DCMCILLP	"X'08'" MOVE IN ILLEGAL LP OPERATION
	.... .1..		DCMDELRI	"X'04'" MOVE IN DELETE REQUEST INCONSIS- TANT
	.... ..1.		DCMASYRT	"X'02'" MOVE IN ASYN ERROR RETRYABLE
	.... ...1		DCMASYCD	"X'01'" MOVE IN ASYN ERROR MAYBE RETRYA- BLE
301	(12D) BITSTRING	1	DCMMSG3	MSG MODULE COMMUNICATIONS BYTE 3
	1... ..		DCMCMRLL	"X'80'" MOVE IN ROLL MODE MESSAGE
	.1..		DCMCDLR1	"X'40'" NO DELETABLE MESSAGES
	..1.		DCMCDLR2	"X'20'" INVALID RANGE
	...1		DCMCDLR3	"X'10'" SEG EQU TO ZERO
	.... 1...		DCMCDLR4	"X'08'" DISPLAY NOT ON SCREEN
1..		DCMCDLR5	"X'04'" INVALID OPERAND
1		DCMDTBSY	"X'01'" COMMAND REJECTED TASK BUSY

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
302	(12E) BITSTRING	1	DCMMSG4	MSG MODULE COMMUNICATIONS BYTE 4
	1... ..		DCMPFKNA	"X'80'" MOVE IN PFK NOT ALLOCATED FOR
	.1.. ..		DCMPFKND	"X'40'" MOVE IN PFK NOT DEFINED
	..1.		DCMPFKNO	"X'20'" MOVE IN NO PFK ALLOCATION
	...1		DCMPFKIP	"X'10'" MOVE IN PFK IN PROCESS
SVC 34 COMMUNICATIONS FIELD				
303	(12F) BITSTRING	1	DCMSVC34	SVC 34 COMMUNICATION BYTE
	1... ..		DCMMYCMD	"X'80'" COMMAND TO BE HANDLED BY THIS CONS
	.1.. ..		DCMINVLD	"X'40'" INVALID K COMMAND
	..1.		DCMYPE1	"X'20'" K COMMAND IS NOT ROUTABLE
304	(130) BITSTRING	1	DCMCOM4	COMMUNICATION BYTE 4
	1... ..		DCMCNTRL	"X'80'" CONTROL LINE INDICATOR
INDEX FOR I/O ROUTINE				
305	(131) HEX	1	DCMIONDX	INDEX FOR SELECTING THE MB APPROPRIATE I/O ROUTINE MB X'04' 3066-IEECVETH X'08' 2250-IEECVETP X'0C' 2260-IEECVETR X'10' 3277 TYPE DEVICE IEECVETU
306	(132) SIGNED	2	DCMTEST	RESERVED FOR TESTING MB
MODULE ADDRESSES				
308	(134) SIGNED	4	DCMIORTN	APPROPRIATE I/O ROUTINE MB NAME TRACE ID DESCRIPTION MB IEECVETH EH 3066 IO ROU- TINE IEECVETP EP 2250 IO ROUTINE MB IEECVETR ER 2260 IO ROUTINE MB IEECVETU EU 3277 TYPE DEVICE IO ROUTINE NAME TRACE ID DESCRIPTION MB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
312	(138) SIGNED	4	DCM NPRZ	IEECVFT1 F1 PROCESSOR 0 LOAD ONE MB
316	(13C) SIGNED	4	DCM NPROC	IEECVET1 E1 PROCESSOR ROUTINE LOAD ONE MB
320	(140) SIGNED	4	DCM NDSP1	IEECVET2 E2 DISPLAY ROUTINE 1 MB
324	(144) SIGNED	4	DCM NDSP2	IEECVET3 E3 DISPLAY ROUTINE 2 MB
328	(148) SIGNED	4	DCM NDSP3	IEECVFT2 F2 DISPLAY ROUTINE 3 MB
332	(14C) SIGNED	4	DCM NCMD1	IEECVET4 E4 COMMAND ROUTINE 1 MB
336	(150) SIGNED	4	DCM NDEL1	IEECVET6 E6 DELETE ROUTINE 1 MB
340	(154) SIGNED	4	DCM NDEL2	IEECVET7 E7 DELETE ROUTINE 2 MB
344	(158) SIGNED	4	DCM NDEL3	IEECVET8 E8 DELETE ROUTINE 3 MB
348	(15C) SIGNED	4	DCM NDEL4	IEECVET9 E9 DELETE ROUTINE 4 MB
352	(160) SIGNED	4	DCM NOPT1	IEECVETA EA OPTIONS ROUTINE 1 MB
356	(164) SIGNED	4	DCM NPFK1	IEECVFTA FA PFK ROUTINE 1 MB
360	(168) SIGNED	4	DCM NPFK2	IEECVFTB FB PFK ROUTINE 2 MB
364	(16C) SIGNED	4	DCM NERRO	IEECVETC EC ASYNCHRONOUS ERROR ROUTINE MB
368	(170) SIGNED	4	DCM NMSG1	IEECVETD ED MESSAGE ROUTINE 1 MB
372	(174) SIGNED	4	DCM NMSG2	IEECVETE EE MESSAGE ROUTINE 2 MB
376	(178) SIGNED	4	DCM NMSG3	IEECVFTD FD MESSAGE ROUTINE 3 MB
380	(17C) SIGNED	4	DCM NLPCR	IEECVETF EF LIGHT PEN/CURSOR SERVICE MB
384	(180) SIGNED	4	DCM NOPCL	IEECVETG EG OPEN-CLOSE ROUTINE MB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
388	(184)	SIGNED	4 DCMNCLN	IEECVFTG FG CLEANUP MODULE MB
392	(188)	SIGNED	4 DCMNROLL	IEECVETJ EJ ROLL MODE ROUTINE MB
396	(18C)	SIGNED	4 DCMNTIMR	IEECVETK EK TIMER INTERPRETER ROUTINE MB
400	(190)	SIGNED	4 DCMNINT1	IEECVFTL FL INTERFACE 1 ROUTINE MB
404	(194)	SIGNED	4 DCMNINT2	IEECVFTM FM INTERFACE 2 ROUTINE MB
408	(198)	SIGNED	4 DCMNINT3	IEECVFTN FN INTERFACE 3 ROUTINE MB
412	(19C)	SIGNED	4 DCMNINT4	IEECVFTO FO INTERFACE 4 ROUTINE MB
416	(1A0)	SIGNED	4 DCMNINT5	IEECVFTP FP INTERFACE 5 ROUTINE MB
420	(1A4)	SIGNED	4 DCMNINT6	IEECVFTQ FQ INTERFACE 6 ROUTINE MB
424	(1A8)	SIGNED	4 DCMNINT7	IEECVFTT FT INTERFACE 7 ROUTINE MB

DIDOCs MODULE TRACE AREA

428	(1AC)	CHARACTER	30 DCMTRACE	DIDOCs MODULE TRACE AREA MB
			DCMTRAC2	"DCMTRACE+2" TRACE MOVE FROM-ADDRESS MB
			DCMTRLEN	"*-DCMTRACE" LENGTH FOR TRACE MOVE MB
		...1 111.		
458	(1CA)	CHARACTER	1 DCMTREN1	1ST BYTE OF TRACE ENTRY MB
459	(1CB)	CHARACTER	1 DCMTREN2	2ND BYTE OF TRACE ENTRY MB

FOLLOWING GROUP OF BYTES ARE DEVICE DEPENDENT

460	(1CC)	HEX	1 DCMASKEN	ENTER MASK
461	(1CD)	HEX	1 DCMASKCN	CANCEL MASK
462	(1CE)	HEX	1 DCMASKCR	CURSOR MASK
463	(1CF)	HEX	1 DCMASKLP	LIGHT PEN MASK

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
464	(1D0) HEX	1	DCMSKPF1	1ST PFK TYPE MASK
465	(1D1) HEX	1	DCMSKPF2	2ND PFK TYPE MASK
466	(1D2) HEX	1	DCMSKPF3	3RD PFK TYPE MASK
467	(1D3) HEX	1	DCMSKPF4	4TH PFK TYPE MASK
468	(1D4) HEX	1	DCMASKCL	CLEAR KEY MASK
469	(1D5) HEX	1	DCMSKPA1	PA1 KEY MASK
470	(1D6) HEX	1	DCMSKPA3	PA3 KEY MASK
471	(1D7) HEX	1	(5)	RESERVED

ADDRESSES OF PARTS OF THE SCREEN IMAGE BUFFER WHEN IN
 FULL CAPABILITY MODE

			DCMSADCN	"*" FIRST ADCON IN LIST
476	(1DC) ADDRESS	4	DCMFLLA	LAST LINE IN MSG AREA
480	(1E0) ADDRESS	4	DCMFL1A	LAST LINE IN MSG AREA + 1
484	(1E4) ADDRESS	4	DCMFLSCT	SCT FOR LAST LINE IN MSG AREA
488	(1E8) ADDRESS	4	DCMFST1	SCT FOR LAST LINE IN MSG AREA + 1
492	(1EC) ADDRESS	4	DCMFSSCT	SSCT FOR LAST LINE IN MSG AREA + 1
496	(1F0) ADDRESS	4	DCMFENT2	2ND LINE OF ENTRY AREA
500	(1F4) ADDRESS	4	(6)	RESERVED

ADDRESSES OF PARTS OF THE SCREEN IMAGE BUFFER WHEN IN
 MESSAGE STREAM MODE

524	(20C) ADDRESS	4	DCMMLLA	LAST LINE MSG AREA
528	(210) ADDRESS	4	DCMML1A	LAST LINE IN MSG AREA + 1

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
532	(214)	ADDRESS	4 DCMMLSCT	SCT FOR LAST LINE IN MSG AREA
536	(218)	ADDRESS	4 DCMMSCT1	SCT FOR LAST LINE IN MSG AREA + 1
540	(21C)	ADDRESS	4 DCMMSSCT	SSCT FOR LAST LINE IN MSG AREA + 1
544	(220)	ADDRESS	4 (2)	RESERVED
ADDRESSES OF PARTS OF THE SCREEN IMAGE BUFFER WHEN IN STATUS DISPLAY MODE				
552	(228)	ADDRESS	4 DCMDLLA	LAST LINE IN MSG AREA
556	(22C)	ADDRESS	4 DCMDLL1A	LAST LINE IN MSG AREA + 1
560	(230)	ADDRESS	4 DCMDLSCT	SCT FOR LAST LINE IN MSG AREA
564	(234)	ADDRESS	4 DCMDSCT1	SCT FOR LAST LINE IN MSG AREA + 1
568	(238)	ADDRESS	4 DCMDSSCT	SSCT FOR LAST LINE IN MSG AREA + 1
572	(23C)	ADDRESS	4 (2)	RESERVED
ADDRESSES TO BE RESOLVED DURING OPEN				
580	(244)	ADDRESS	4 DCMLSSCT	ADDRESS OF THE LAST SSCT
584	(248)	ADDRESS	4 (8) DCMLADCN	RESERVED "X" LAST ADCON IN LIST
616	(268)	ADDRESS	4	RESERVED

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OFFSETS TYPE LENGTH NAME DESCRIPTION

NUMBER OF LINES IN MESSAGE AREA AND ENTRY AREA VALUES

620	(26C)	SIGNED	1	DCMFnLMA	MAX NUMBER LINES IN MSG AREA WHEN IN FULL CAPABILITY MODE
621	(26D)	SIGNED	1	DCMMNLMA	MAX NUMBER LINES IN MSG AREA WHEN IN MESSAGE STREAM MODE
622	(26E)	SIGNED	1	DCMDNLMA	MAX NUMBER LINES IN MSG AREA WHEN IN STATUS DISPLAY MODE
623	(26F)	SIGNED	1	DCMENTL1	LINE NUMBER 1 OF 1ST LINE IN ENTRY AREA
624	(270)	SIGNED	1	DCMENTL2	LINE NUMBER 1 OF 2ND LINE IN ENTRY AREA
625	(271)	SIGNED	3		RESERVED
628	(274)	HEX	2	DCMFENRC	ADDR OF 2ND LINE IN ENTRY AREA IN ROW-COLUMN FORMAT
630	(276)	SIGNED	2	DCMENTPO	OFFSET OF 1ST CHAR IN ENTRY AREA
632	(278)	SIGNED	4	(2)	RESERVED

COMMAND BUFFER AREA FOR THE LAST COMMAND ENTERED

640	(280)	CHARACTER	128	DCMCBUFA	COMMAND BUFFER AREA FOR LAST COMMAND ENTERED
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SAVE AREAS

768	(300)	SIGNED	4	DCMMODAD	VIRT ADDR OF REAL TDCM AFTER OPEN
768	(300)	CHARACTER	4	DCMCACRO	CNTL BLK ACRONYM 'TDCM' BEFORE OPEN

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
772	(304) HEX	6	DCMAIDSV	SAVE AREA FOR AID FROM RMI
778	(30A) SIGNED	2		RESERVED
780	(30C) SIGNED	4	(2)	RESERVED
788	(314) SIGNED	2		RESERVED
790	(316) CHARACTER	1	DCMFRMF	FULL CAPABILITY MFORM VALUE
791	(317) CHARACTER	2	DCMDELFC	FULL CAPABILITY DEL VALUE
793	(319) CHARACTER	1	DCMCONFC	FULL CAPABILITY CON VALUE
794	(31A) SIGNED	1	DCMSEGFC	FULL CAPABILITY SEG VALUE
795	(31B) SIGNED	1	DCMRNUMF	FULL CAPABILITY RNUM VALUE
796	(31C) SIGNED	2	DCMRTMEF	FULL CAPABILITY RTME VALUE
798	(31E) CHARACTER	1	DCMFRMM	MESSAGE STREAM MFORM VALUE
799	(31F) CHARACTER	2	DCMDELMS	MESSAGE STREAM DEL VALUE
801	(321) CHARACTER	1	DCMCONMS	MESSAGE STREAM CON VALUE
802	(322) SIGNED	1	DCMSEGMS	MESSAGE STREAM SEG VALUE
803	(323) SIGNED	1	DCMRNUMM	MESSAGE STREAM RNUM VALUE
804	(324) SIGNED	2	DCMRTMEM	MESSAGE STREAM RTME VALUE
806	(326) SIGNED	2		RESERVED
808	(328) SIGNED	4	(3)	RESERVED

GENERAL EQUATED VALUES

.11. 111. DCMPFKAL "110" SIZE OF THE PFK AREA

MAPPING OF A SCREEN CONTROL TABLE (SCT) ENTRY
 FIRST BYTE OF AN SCT

1...	DCMMSGRI	"X'80'" RESERVED WAS DCMMSGWR
.1..	DCMMSGIN	"X'40'" MESSAGE DISPLAYED IN LINE
..1.	DCMMSGCN	"X'20'" MESSAGE CONTINUED ON NEXT LINE
...1	DCMMSGJK	"X'10'" TO WRITE OUT-OF-LINE DISPLAY
.... 1...	DCMMSGAD	FROM MAY CONTAIN JUNK (SDS INTERFACE 2)
		"X'08'" MESSAGE CAN BE DELETED AUTOMAT-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	.1..		DCMMSGRD	ICALLY "X'04'" REQUEST HAS SPECIFIED MSG BE REMOVED
....	..1.		DCMMSGIF	"X'02'" INFORMATIONAL MESSAGE IN LINE
....	...1		DCMMSGST	"X'01'" END OF TABLE INDICATOR

SECOND BYTE OF AN SCT

1...	....		DCMMSGAC	"X'80'" ACTION MESSAGE
.1..	....		DCMMSGC7	"X'40'" DESCRIPTOR CODE 7 MESSAGE
..1.	....		DCMMSGR2	"X'20'" RESERVED WAS DCMMSGDM
...1	....		DCMMSGUA	"X'10'" URGENT ATTENTION MESSAGE DIS- PLAYED IN LINE
....	1...		DCMMSGEA	"X'08'" EVENTUAL ACTION MESSAGE DIS- PLAYED IN LINE WAS DCMMSGIR
....	.1..		DCMMSGCT	"X'04'" CONTINUATION LINE
....	..1.		DCMMSGPP	"X'02'" ISSUED BY PROBLEM PROGRAM
....	...1		DCMMSGCL	"X'01'" CONTROL LINE OF IN LINE MLWTO

MAPPING OF A SECONDARY SCREEN CONTROL TABLE (SSCT) ENTRY

1...	....		DCMSECCL	"X'80'" CONTROL LINE OF OUT OF LINE DIS- PLAY
.1..	....		DCMSECLL	"X'40'" LABEL LINE OF OUT OF LINE DIS- PLAY
..1.	....		DCMSEC DL	"X'20'" DATA LINE OF OUT OF LINE DISPLAY
...1	....		DCMSECBL	"X'10'" THIS LINE IS BLANKED
....	..1.		DCMSECDD	"X'02'" LINE RESERVED FOR DYNAMIC DIS- PLAY
....	...1		DCMSECST	"X'01'" END OF TABLE INDICATOR

820 (334) CHARACTER 1 DCMEND END OF TDCM

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
DCMACPFK	123	02	DCMCDLR3	12D	10	DCMDL	10E	
DCMADCHP	48		DCMCDLR4	12D	08	DCMDLLA	228	
DCMADDRL	2C		DCMCDLR5	12D	04	DCMDLLIA	22C	
DCMADNUM	FA		DCMCDSP3	12A	80	DCMDLREQ	12C	80
DCMADOPN	54		DCMCHOPT	12B	10	DCMDLST	230	
DCMADSEC	28		DCMCILLP	12C	08	DCMDNLMA	26E	
DCMAE	129	01	DCMCLEAR	128	02	DCMDOMPK	20	
DCMAENTR	40		DCMCMIN5	129	04	DCMDORMI	121	80
DCMAIDSV	304		DCMCMIN7	12A	01	DCMDSAUT	11E	04
DCMAINS	3C		DCMCMRLL	12D	80	DCMDSAV	58	
DCMAMTAB	24		DCMCMMSG1	12B		DCMDSCT1	234	
DCMASBA	127	10	DCMCMMSG2	12C		DCMDSST	238	
DCMASCRN	30		DCMCMMSG3	12D		DCMDSTAT	11E	
DCMASDA	127	40	DCMCMMSG4	12E		DCMDSTNH	11E	10
DCMASEWA	127	08	DCMCM2I	129	80	DCMDSTNM	11E	20
DCMASIN	127	20	DCMCMNTRL	130	80	DCMDTBSY	12D	01
DCMASKCL	1D4		DCMCOMAR	129	20	DCMDUSE	11F	80
DCMASKCN	1CD		DCMCOMAU	128	10	DCMELGN	1A	
DCMASKCR	1CE		DCMCOMNM	128	04	DCMELONG	12B	08
DCMASKEN	1CC		DCMCOMRD	128	08	DCMEND	334	
DCMASKLP	1CF		DCMCOMRM	128	20	DCMENTL1	26F	
DCMASYCD	12C	01	DCMCOM1	128		DCMENTL2	270	
DCMASYNC	127		DCMCOM2	129		DCMENTPO	276	
DCMASYRT	12C	02	DCMCOM3	12A		DCMERASE	122	04
DCMATI	5		DCMCOM4	130		DCMERPF	129	08
DCMAWARN	44		DCMCON	10C		DCMEWAND	123	20
DCMAXLGN	FC		DCMCONF	319		DCMEWASP	120	01
DCMBADLN	F6		DCMCONMS	321		DCMFENRC	274	
DCMBAINC	F2		DCMCORLN	104		DCMFENT2	1F0	
DCMBLENT	122	80	DCMCOS	11C		DCMFLG1	4	
DCMBLWRL	122	40	DCMCSC	11C	80	DCMFLLA	1DC	
DCMBLWRR	122	20	DCMCSSO	11C	40	DCMFLLI1A	1E0	
DCMBUFAD	1C		DCMCULNO	125		DCMFLSCT	1E4	
DCMBYTCT	F8		DCMCVBIN	14		DCMFLMA	26C	
DCMCACRO	300		DCMCXSVE	50		DCMFRSCN	120	20
DCMCANCL	128	01	DCMDEL	10A		DCMFSCT1	1E8	
DCMCBLNK	129	02	DCMDELFC	317		DCMFSST	1EC	
DCMCBUFA	280		DCMDELMS	31F		DCMINERR	120	02
DCMCDLR1	12D	40	DCMDELNT	12B	02	DCMINLGN	6C	
DCMCDLR2	12D	20	DCMDELRI	12C	04	DCMINNOR	120	04

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
DCMINPUT	70		DCMMSGIF	328	02	DCMOCTTI	18	02
DCMINSC	121	01	DCMMSGIN	328	40	DCMOLHLD	12A	02
DCMINSSH	122	10	DCMMSGJK	328	10	DCMOLUNV	12A	08
DCMINVLD	12F	40	DCMMSGPP	328	02	DCMOOMSS	11F	04
DCMINVOP	12C	10	DCMMSGRD	328	04	DCMOOSDS	11F	01
DCMIOCM1	121		DCMMSGR1	328	80	DCMOPRLI	11B	10
DCMIOCM2	122		DCMMSGR2	328	20	DCMOPRMI	123	80
DCMIOCM3	123		DCMMSGST	328	01	DCMOPTAD	11B	40
DCMIOCRD	122	02	DCMMSGUA	328	10	DCMOPTSG	11B	20
DCMIONDX	131		DCMMSGWT	12B	80	DCMOPTST	11B	
DCMIOPRD	128	40	DCMSSCT	21C		DCMOPTTI	18	40
DCMIORTN	134		DCMMYCMD	12F	80	DCMOPTVR	11B	80
DCMIOUNQ	120		DCMNCLN	184		DCMOTTMM	18	10
DCMIO226	120	80	DCMNCMD1	14C		DCMOUTPT	4	02
DCMLADCN	248	0268	DCMNDL1	150		DCMPACK	10	
DCMLGNTH	F0		DCMNDL2	154		DCMPFKAL	328	6E
DCMLINEN	124		DCMNDL3	158		DCMPFKAT	123	08
DCMLNCNT	C		DCMNDL4	15C		DCMPFKIP	12E	10
DCMLNNUM	E		DCMNDSP1	140		DCMPFKKN	109	
DCMLPENT	128	80	DCMNDSP2	144		DCMPFKLN	4C	
DCMLSCRN	34		DCMNDSP3	148		DCMPFKNA	12E	80
DCMLSSCT	244		DCMNERR0	16C		DCMPFKND	12E	40
DCMLTPFK	123	01	DCMNINT1	190		DCMPFKNM	108	
DCMMCSFL	6E		DCMNINT2	194		DCMPFKNO	12E	20
DCMMCSST	11F		DCMNINT3	198		DCMPFKWR	12A	04
DCMMFRMF	316		DCMNINT4	19C		DCMPOSCU	126	
DCMMFRMM	31E		DCMNINT5	1A0		DCMRDARM	120	10
DCMMLLA	20C		DCMNINT6	1A4		DCMRDPFK	123	04
DCMMLL1A	210		DCMNINT7	1A8		DCMREPLC	129	10
DCMMLSCT	214		DCMNLPCR	17C		DCMRMINC	100	
DCMMNLMA	26D		DCMNMSG1	170		DCMRMTTI	18	01
DCMMODAD	300		DCMNMSG2	174		DCMRNUM	10F	
DCMMSCT1	218		DCMNMSG3	178		DCMRNUMD	113	
DCMMSGAC	328	80	DCMNOPCL	180		DCMRNUMF	31B	
DCMMSGAD	328	08	DCMNOPT1	160		DCMRNUMM	323	
DCMMSGAL	FE		DCMNPFK1	164		DCMRPCUR	120	40
DCMMSGCL	328	01	DCMNPFK2	168		DCMRQINC	12C	40
DCMMSGCN	328	20	DCMNPROC	13C		DCMRTME	110	
DCMMSGCR	12C	20	DCMNPRZ	138		DCMRTMED	114	
DCMMSGCT	328	04	DCMNROLL	188		DCMRTMEF	31C	
DCMMSGC7	328	40	DCMNTIMR	18C		DCMRTMEM	324	
DCMMSGEA	328	08	DCMOACRO	0		DCMRTPFK	12A	40

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
DCMSADCN	1D7	01DC	DCMSSRG	123	40	DCMUTILD	11D	10
DCMSCTCN	102		DCMSTEX	12B	20	DCMUTILE	11D	08
DCMSECBL	328	10	DCMSTRT	0		DCMUTILF	11D	04
DCMSECCL	328	80	DCMSVC34	12F		DCMUTILT	11D	
DCMSECDD	328	02	DCMTASYN	18	04	DCMVLPFK	12A	20
DCMSECDL	328	20	DCMTEST	132		DCMWINFD	122	08
DCMSECLL	328	40	DCMTEST1	11D	02	DCMWQEXP	6C	
DCMSECST	328	01	DCMTEST2	11D	01	DCMWRASY	122	01
DCMSEG	10D		DCMTIMER	18	80	DCMWRCDL	12B	04
DCMSEGDF	112		DCMTIMES	18		DCMWRENT	121	02
DCMSEGFC	31A		DCMTRACE	1AC		DCMWRINS	121	04
DCMSEGMS	322		DCMTRAC2	1AC	01AE	DCMWRMSG	121	10
DCMSKPA1	1D5		DCMTREN1	1CA		DCMWRPAR	121	08
DCMSKPA3	1D6		DCMTREN2	1CB		DCMWRPFK	123	10
DCMSKPF1	1D0		DCMTRLEN	1AC	1E	DCMWRWRN	121	20
DCMSKPF2	1D1		DCMTYPE1	12F	20	DCMWTBUF	38	
DCMSKPF3	1D2		DCMUNMSG	12B	40	DCMWTINT	8	
DCMSKPF4	1D3		DCMUTILA	11D	80	DCMW2250	120	08
DCMSOUND	121	40	DCMUTILB	11D	40	DCMXINT1	12A	10
DCMSPLIT	129	40	DCMUTILC	11D	20			

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TIOCBUF

Common Name : TSO TIOC Buffer Prefix
 Macro ID : IKJTIOCB
 DSECT Name : TIOCBUF
 Created by : IEDAY1, TIOC
 Subpool and Key : Common service area and key 0
 Size : 12 header, 6 trailer
 Pointed to by : TSB0BFP field of the TSB data area
 TSBIBFP field of the TSB data area
 BUFFTRLR field of the TIOCBUF data area
 BUFFHEAD field of the TIOCBUF data area
 TIOCFBFL field of the TIOCRPT data area

Serialization : CMS lock

Function : Contains information describing buffer contents and attributes. It resides in the common storage area.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	TIOCBUF	
0	(0) HEX	1	BUFFFL1	COMMON FLAG BYTE BIT DEFINITIONS
BIT 6			RESERVED	
1... ..			BUFFIHOT	"X'80'". BUFFER ON INPUT AND OUTPUT QUEUES
.1..			BUFFHDR	"X'40'". HEADER BUFFER
..1.			BUFFNLCR	"X'20'". NEW LINE, CARRIAGE RETURN AT END OF TEST
...1			BUFFEDIT	"X'10'". EDIT OPTION
.... 1...			BUFFCNTL	"X'08'". CONTROL OPTION SPECIFIED
.... .1..			BUFFFULL	"X'04'". BUFFER IS FULL
.... ...1			BUFFHOLD	"X'01'". OUTPUT BUFFER CONTAINING A HOLD OPTION TPUT MESSAGE
1	(1) ADDRESS	3	BUFFTRLR	PTR TO NEXT TRAILER BFR OF THIS MSG. ALSO USED TO LINK TOGETHER BFRS WHICH ARE ON FREE QUEUE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
4	(4) SIGNED	4	BUFFNDAT	FREE BUFFER NO DATA
4	(4) CHARACTER	1	BUFFOFST	OFFSET TO BEGINNING OF DATA
5	(5) CHARACTER	1	BUFFLNTH	LENGTH OF TEXT IN DATA PORTION OF THE BUFFER
6	(6) CHARACTER	2	BUFFWORK	RESERVED TSINPUT USE AS WORK AREA
8	(8) HEX	1	BUFFFL2	HEADER BUFFER FLAG BIT DEFINITIONS
BITS 4 - 7 RESERVED				
	1... ..		BUFFPART	"X'80". PARTIAL INPUT LINE DUE TO BREAK-IN
	.1... ..		BUFFFRAG	"X'40". FRAGMENT MESSAGE
	..1.		BUFFTJID	"X'20". THIS MSSG IS TJID MSSG
	...1		BUFF3270	"X'10". BUFFER HAS 3270 CONTROL CHARS
9	(9) ADDRESS	3	BUFFHEAD	POINTER TO THE NEXT MESSAGE ON THE QUEUE OR ZERO'S
12	(C) SIGNED	4	BUFFHDAT	START OF DATA IN HEADER BUFFER
	.... 11..		BUFFHDLN	"BUFFHDAT-TIOCBUF". PREFIX SIZE FOR A HEADER BUFFER
 11..		BUFFTRLN	"BUFFHDLN" PREFIX SIZE FOR A TRAILER BFR
0 * BUFFFL1 * BUFFTRLR 4 * BUFFOFST * BUFFLNTH * BUFFWORK 8 * BUFFFL2 * BUFFHEAD				

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		TIOCTJBF	"X'10'". TPUT W/TJID FOUND NO TS BUFFERS
	.... 1...		TIOCNOBF	"X'08'". TPUT FOUND NO TS BUFFERS ON EITHER FREE OR OUTPUT QUEUE
21	(15) CHARACTER	1	TIOCQTKY	KEY OF QTIP CALLER
22	(16) SIGNED	2	TIOCUSCT	TIOC USER COUNT
24	(18) CHARACTER	2	TIOCAOMX	CURRENT MAXIMUM NO. OF OUTPUT BUFFERS ALLOWED EACH TERMINAL
26	(1A) CHARACTER	2	TIOCAIMX	CURRENT MAXIMUM NO. OF INPUT BUFFERS ALLOWED EACH TERMINAL
28	(1C) CHARACTER	2	TIOCUSLW	NO. OF BFRS THAT ARE RESERVED ON THE FREE QUEUE. LESS THAN THIS AMOUNT RESULTS IN A SYSTEM-WIDE LWAIT
30	(1E) SIGNED	2	TIOCNBFL	NO. OF FREE BUFFER LISTS
32	(20) HEX	1	TIOCTSBS	SIZE OF TSB'S
33	(21) ADDRESS	3	TIOCTSB	ADDRESS OF THE TSB TABLE
36	(24) CHARACTER	72	TIOCSAVE	REGISTER SAVE AND WORK AREA
108	(6C) SIGNED	4	TIOCTECB	TIME INTERVAL ECB
112	(70) SIGNED	2	TIOCRCLM	RECONNECT LIMIT (MINUTES)
114	(72) SIGNED	2		RESERVED
116	(74) ADDRESS	4	TIOCLDS	LINE DISCONNECT SUBTASK TCB
120	(78) ADDRESS	4		RESERVED
124	(7C) ADDRESS	4	TIOCFBFL	FREE BUFFER LIST(S). ONE LIST FOR EACH PAGE CONTAINING TIOC BUFFERS. AN EMPTY LIST IS INDICATED BY THE COMPLEMENTED ADDRESS OF A BUFFER ON THAT PAGE.

TIOCRPT

268 MVS/370 Debug Hdbk Vol 5

TIOCRPT

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OFFSETS TYPE LENGTH NAME DESCRIPTION

0	*			TIOCQTIP	
4	*		TIOC�BF	*	TIOC�FBF
8	*		TIOC�FSZ	*	TIOC�TSB
12	*			TIOCQRET	
16	*		TIOCOWTH	*	TIOCRSTH
20	*	TIOCFLG	* TIOCQTKY	*	TIOCUSCT
24	*		TIOCAOMX	*	TIOCAIMX
28	*		TIOCUSLW	*	TIOC�BFL
32	*	TIOCTSBS	*		TIOCTSБ
36	*	TIOCSAVE (72 BYTES)			
108	*			TIOCTECB	
112	*		TIOCRCLM	*	RESERVED
116	*			TIOCLDS	
120	*			RESERVED	
124	*			TIOCFBFL	

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TIOT

Common Name : Task Input/Output Table
Macro ID : IEFTIOT1
DSECT Name : No DSECT card put out by macro. TIOT1 may be used in the USING statement.
Created by : Device allocation
Subpool and Key : SWA (subpool 236 or 237) and key 0
Size : Variable
Pointed to by : TCBTIO field of the TCB data area
 DCB..... field of the DCB data area
 DSABTIOT field of the DSAB data area (DD entry TIOT)
 JCTSTIOT field of the JCT data area
 SMCATIOT field of the SMCA data area (master scheduler TI OT)
 TCBTIO field of the TCB data area
Serialization : ENQ on SYSZTIOT
Function : Provides the I/O support routines with pointers to JFCBs and to allocated devices.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) SIGNED	4	TIOT1	"X"- TIOTPTR
0	(0) CHARACTER	8	TIOCJOB	JOB NAME
8	(8) CHARACTER	16	TIOCSTEP	FOR A JOB STEP THAT IS NOT A PROCEDURE STEP, 8-BYTE JOB STEP NAME AND 8 RESERVED BYTES. FOR A JOB STEP THAT IS A PROCEDURE STEP, 8-BYTE PROCEDURE STEP NAME AND 8-BYTE JOB STEP NAME OF THE JOB STEP THAT CALLED THE PROCEDURE.

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OFFSETS TYPE LENGTH NAME DESCRIPTION

DD ENTRY

THERE IS A 16-BYTE DD ENTRY FOR EACH DD STATEMENT IN THE JOB STEP OR PROCEDURE STEP. (REFERENCES TO GDG (ALL) DATA SETS, THE JOBLIB DATA SET OR PGM=*.*.DDNAME CREATE STILL OTHER DD ENTRIES.)

A DD ENTRY INCLUDES A DEVICE ENTRY. BEFORE ALLOCATION, THERE MAY BE SEVERAL DEVICE ENTRIES IN EACH DD ENTRY.

...	1...		TIOENTRY	"X"- TIODDPTR
24	(18) SIGNED	1	TIOELNGH	LENGTH, IN BYTES, OF THIS ENTRY (INCLUDING ALL DEVICE ENTRIES)
25	(19) BITSTRING	1	TIOESTTA	STATUS BYTE A
	1... ..		TIOSLTYP	"X'80"- NONSTANDARD LABEL (TAPE)
	.1.. ..		TIOSPLTP	(OS/VS1) ENTRY NOT IN USE (OS/VS2)
	..1.		TIOSPLTS	"X'40"- DURING ALLOCATION, SPLIT CYLINDER PRIMARY. (THIS IS THE FIRST DD ENTRY FOR A SPLIT CYLINDER.) DURING STEP TERMINATION, NO UNALLOCATION NECESSARY.
	...1		TIOSJBLB	"X'20"- DURING ALLOCATION, SPLIT CYLINDER SECONDARY. (THIS IS NOT THE FIRST DD ENTRY FOR A SPLIT CYLINDER.) DURING STEP TERMINATION, REWIND BUT NO UNLOADING.
	.... 1...		TIOSDADS	"X'10"- JOBLIB INDICATOR
	.... .1..		TIOSLABL	"X'08"- DADSM ALLOCATION NECESSRY
	.... ..1.		TIOSDSP1	"X'04"- LABELED TAPE. IF BIT 0 IS OFF, SL OR SUL. IF BIT 0 IS ALSO ON, AL OR AUL.
	.... ...1		TIOSDSP2	"X'02"- REWIND/UNLOAD THE TAPE VOLUME (TAPE) PRIVATE VOLUME (DIRECT ACCESS)
26	(1A) CHARACTER	2	TIOERLOC	"X'01"- REWIND THE TAPE VOLUME (TAPE) PUBLIC VOLUME (DIRECT ACCESS)
26	(1A) CHARACTER	1	TIOEWCT	RELATIVE LOCATION OF POOL
27	(1B) CHARACTER	1	TIOELINK	DURING ALLOCATION, NUMBER OF DEVICES REQUESTED FOR THIS DATA SET
				DURING ALLOCATION, LINK TO THE APPROPRIATE PRIME SPLIT, UNIT AFFINITY, VOLUME AFFINITY OR SUBALLOCATE TIOE ENTRY.

TIOT

TIOT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				AFTER ALLOCATION, FLAG BYTE.
1... ..			TIOSYOUT	"X'80'"- THIS IS A SYSOUT DATA SET THAT CONTAINS DATA (AFTER CLOSE)
.1... ..			TIOTRV01	"X'40'"- RESERVED
..1... ..			TIOTTERM	"X'20'"- DEVICE IS A TERMINAL
...1... ..			TIOEDYNM	"X'10'"- DYNAM CODED ON DD STATEMENT
.... 1... ..			TIOEQNAM	"X'08'"- QNAME CODED ON DD STATEMENT
.... .1.. ..			TIOESYIN	"X'04'"- ENTRY FOR SPOOLED SYSIN DATA SET (OS/VS1)
.... ..1. ..			TIOESYOT	"X'02'"- ENTRY FOR SPOOLED SYSOUT DATA SET (OS/VS1)
.... ..1. ..			TIOESSDS	"X'02'"- ENTRY FOR A SUBSYSTEM DATA SET (OS/VS2)
.... ...1 ..			TIOTREM	"X'01'"- ENTRY FOR A REMOTE DEVICE
28	(1C) CHARACTER	8	TIOEDDNM	DD NAME
36	(24) CHARACTER	3	TIOEJFCB	RELATIVE TRACK ADDRESS (TTR) OF THE JFCB. (DURING ALLOCATION, TTR OF THE SIOT IF SUBALLOCATE WAS REQUESTED.)
39	(27) BITSTRING	1	TIOESTTC	STATUS BYTE C. USED DURING ALLOCATION ONLY. SET TO ZEROS AT END OF ALLOCATION.
1... ..			TIOSDKCR	"X'80'"- MAIN STORAGE OR DASD ADDRESS
.1... ..			TIOSDEFR	"X'40'"- DEFERRED MOUNT
..1... ..			TIOSAFFP	"X'20'"- PRIMARY UNIT AFFINITY
...1... ..			TIOSAFFS	"X'10'"- SECONDARY UNIT AFFINITY
.... 1... ..			TIOSVOLP	"X'08'"- PRIMARY VOLUME AFFINITY
.... .1.. ..			TIOSVOLS	"X'04'"- SECONDARY VOLUME AFFINITY
.... ..1. ..			TIOSBALP	"X'02'"- PRIMARY SUBALLOCATE
.... ...1 ..			TIOSBALS	"X'01'"- SECONDARY SUBALLOCATE

DEVICE ENTRIES

1. DURING ALLOCATION
 ONE DEVICE ENTRY FOR EACH DEVICE REQUIRED, OR FOR EACH PUBLIC DEVICE ELIGIBLE.
2. DURING PROBLEM PROGRAM
 ONE DEVICE ENTRY FOR EACH ALLOCATED DEVICE.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
40	(28) BITSTRING	1	TIOESTTB	STATUS BYTE B DURING ALLOCATION AND DURING PROBLEM PROGRAM
	1... ..		TIOSUSED	"X'80'"- DATA SET IS ON DEVICE
	.1.. ..		TIOSREQD	"X'40'"- DATA SET WILL USE DEVICE
	..1. ..		TIOSPVIO	"X'20'"- DEVICE VIOLATES SEPARATION
	...1 ..		TIOSVLSR	"X'10'"- VOLUME SERIAL PRESENT
	.... 1..		TIOSSETU	"X'08'"- SETUP MESSAGE REQUIRED
	.... .1..		TIOSMNTD	"X'04'"- IF 0, DELETE UNLOADED VOLUME IF UNLOAD REQUIRED. IF 1, RETAIN UNLOADED VOLUME IF UNLOAD REQUIRED.
	.... ..1.		TIOSUNLD	"X'02'"- UNLOAD REQUIRED
	.... ...1		TIOSVERF	"X'01'"- VERIFICATION REQUIRED
41	(29) ADDRESS	3	TIOEFSRT	DURING PROBLEM PROGRAM, ADDRESS OF UCB. DURING ALLOCATION, BITS 0-11 CONTAIN OFFSET, IN THE UCB LOOK-UP TABLE, TO AN ADDRESS FOR A DEVICE REQUIRED OR ELIGIBLE FOR THIS DATA SET. THE UCB LOOK-UP TABLE HAS ADDRESSES OF UCB'S. BITS 12-23 CONTAIN OFFSET, IN THE STEP VOLUME TABLE (VOLT), TO THE VOLUME SERIAL NUMBER FOR THE VOLUME REQUIRED OR ELIGIBLE FOR THIS DATA SET.

TIOT POOL ENTRY

	..1. 11..		POOLSTAR	"*"
44	(2C) CHARACTER	1		RESERVED
45	(2D) SIGNED	1	TIOPNSLT	NUMBER OF SLOTS FOR POOL
46	(2E) CHARACTER	1		RESERVED
47	(2F) SIGNED	1	TIOPNSRT	NUMBER OF DEVICES (FILLED SLOTS)
48	(30) CHARACTER	8	TIOPPOOL	POOL NAME
56	(38) HEX	1	TIOPSTTB	STATUS OF SLOT
57	(39) ADDRESS	3	TIOPSLOT	UCB ADDRESS OR EMPTY SLOT
60	(3C) CHARACTER	4	TIOTFEND	FINAL END OF THE TIOT BINARY ZEROS

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TQE

Common Name : Timer Queue Element
Macro ID : IHATQE
DSECT Name : TQE
Created by : IEAVRT00 (STIMER function) or SETDIE user
Subpool and Key : 253 (task) or 245 (real/wait) and key 0
Size : 128 bytes
Pointed to by : PCCATQEP field of the PCCA data area
 TQEFLNK field of the TQE data area (forward link)
 TQEBLNK field of the TQE data area (backward link)
 TCBTQE field of the TCB data area
Serialization : Dispatcher lock
Function : Each TQE represents a time interval. It is established
 by use of the STIMER function.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	TQE	,TQEPTR TIMER QUEUE ELEMENT
0	(0) FLOATING	8		
0	(0) CHARACTER	4	TQETQE	TQE IDENTIFICATION
4	(4) ADDRESS	4	TQEFLNK	ADDRESS OF NEXT TQE
8	(8) ADDRESS	4	TQEBLNK	ADDRESS OF PREVIOUS TQE
12	(C) SIGNED	2	TQEASID	REQUESTORS ASID
14	(E) BITSTRING	1	TQEFLGS	TQE FLAG BYTE 1
	1... ..		TQEOFF	"X'80'" TQE IS OFF TIMER QUEUE
	.1..		TQETOD	"X'40'" TOD OPTION SPECIFIED
	...1		TQEWLIM	"X'10'" WAIT LIMIT EXCEEDED
	.... 1...		TQEINCOM	"X'08'" INTERVAL IS COMPLETE
	.... .1..		TQEXITSP	"X'04'" AN EXIT WAS SPECIFIED
	.... ..11		TQETYPE	"X'03'" TQE TYPE 00=TASK TYPE 01=WAIT TYPE 11=REAL TYPE
15	(F) BITSTRING	1	TQEFLGS2	TQE FLAG BYTE 2
	1... ..		TQECOMP	"X'80'" REAL TQE IS BEING TIMED
	.1..		TQEUSER	"X'40'" NON SYSTEM TQE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1.			TQECRH	"X'20'" CHNL RECONFIG HDWE TQE
...1			TQEDUM	"X'10'" DUMMY SYSTEM TQE
.... 1...			TQELM	"X'08'" TIME LIMIT CHECKING SYSTEM TQE
.... .1..			TQEOPT	"X'04'" SYSTEM RESOURCES MANAGER TQE
.... ..1.			TQEMF1	"X'02'" MF/1 SYSTEM TQE
.... ...1			TQEMIDN	"X'01'" MIDNIGHT SYSTEM TQE
16	(10) SIGNED	4	TQEVAL(2)	EXPIRATION TIME OR TIME LEFT
24	(18) ADDRESS	4	TQESADDR	ADDRESS OF PP SAVE AREA
28	(1C) ADDRESS ...1 11..	4	TQEEXIT TQEECB	ADDRESS OF USER EXIT RTN "TQEEXIT" ECB IF WAIT TYPE TQE
32	(20) ADDRESS	4	TQETCB	ADDRESS OF USER TCB
36	(24) ADDRESS	4	TQEASCB	ADDRESS OF USER ASCB
40	(28) SIGNED	4	TQELHPSW	FIRST WORD OF CURRENT PSW
44	(2C) CHARACTER	44	TQESRB	SRB
44	(2C) SIGNED	4	TQEDREGS(11)	DIE ENTRY.
88	(58) BITSTRING 1...	1	TQEFLGS3 TQEDIE	TQE FLAG BYTE 3 "X'80'" DIE TQE
89	(59) CHARACTER	27		RESERVED
116	(74) SIGNED	4	TQERSAVE	REG SAVE AREA SETDIE
120	(78) SIGNED .111 1... .111 11..	4	TQESTCK(2) TQESTCKL TQESTCKR	STCK AREA FOR SETDIE "TQESTCK" STCK AREA-LEFT HALF "TQESTCK+4" STCK AREA-RIGHT HALF
128	(80) CHARACTER 1...	1	TQEEND TQELEN	END OF TQE "TQEEND-TQE" LENGTH OF TQE

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TSB

Common Name : TSO Terminal Status Block

Macro ID : IKJTSB

DSECT Name : TSB

Created by : TSB - TIOC routine, IEDAY1, TCAS routine, IKTCAS31; TSBX - TCAS routine, IKTCAS31

Subpool and Key : Common service area and key 6

Size : TSB - 120 bytes;

Pointed to by : ASCBTSB field of the ASCB data area
 TIOCTSB field of the TIOCRPT data area
 TCASTSB field of the TCAST data area (first TSO/VTAM TSB)
 TSBXFWF field of the TSB data area
 TSBXBCK field of the TSB data area

Serialization : CMS lock, compare & swap logic

Function : The TSB contains information pertaining to a terminal user's status. The TSBX provides information pertaining to a TSO/VTAM time sharing terminal, and pointers pertaining to a TSO/VTAM user address space.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	120	TSB	
0	(0) ADDRESS	4	TSBASCBA	POINTER TO ASCB
0	(0) CHARACTER	1	TSBSTAT	TERMINAL STATUS BYTE BIT DEFINITIONS
	1... ..		TSBINUSE	TSB IN USE
	.1... ..		TSBLWAIT	KEYBOARD LOCKED DUE TO A LACK OF INPUT BUFFERS
	..1.		TSBDSPLY	TSB REPRESENTS A DISPLAY SCREEN
	...1		TSBNOBUF	INDICATES TPUT FOUND NO BUFFERS
	.... 1...		TSBITOFF	PROHIBIT NON-SUPERVISORY INTER- TERMINAL MSGS TO USERS TERMINAL
	.... .1..		TSBDISC	TSB HAS BEEN THRU LOGOFF
	.... ..1.		TSB3270	TSB REPRESENTS A 3270 TERMINAL
	.... ...1		TSBATNLD	ATTN FOR INPUT LINE DELETE
1	(1) ADDRESS	3	TSBASCB	POINTER TO ASCB
4	(4) CHARACTER	1	TSBFLG1	FIRST FLAG BYTE BIT DEFINITIONS
	1... ..		TSBANSR	ATTN SIMULATION REQUESTED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.1..		TSBOFLSH	OUTPUT TRAILER Q IS TO BE FLUSHED
	..1.		TSBOWIP	A TPUT IS IN PROGRESS
	...1		TSBNOWIP	WAITING IN OWAIT IN PROGRESS
	.... 1...		TSBIFLSH	INPUT QUEUE FLUSH IN PROGRESS
	.... .1..		TSBTJOW	TJID TPUT ENCOUNTERED OWIP
	.... ..1.		TSBTJIP	A TJID TPUT IS IN PROGRESS
	.... ...1		TSBTJBF	TJID TPUT FOUND NO TS BUFFERS
5	(5) ADDRESS	3	TSBWTCB	ADDR OF TCB OF TASK WAITING ON TSBECD
8	(8) CHARACTER	1	TSBLNSZ	PHYSICAL LINE SIZE OF TERMINAL
9	(9) ADDRESS	3	TSBOTBFP	PTR TO TRAILER BUFFER(S) AFTER HEADER BUFFER FOR MSG HAS BEEN REMOVED
12	(C) CHARACTER	1	TSBNOBF	NO. OF BUFFERS ON OUTPUT QUEUE
13	(D) ADDRESS	3	TSBOBFP	PTR TO OUTPUT BUFFER QUEUE
16	(10) CHARACTER	1	TSBFLG2	SECOND FLAG BYTE BIT DEFINITIONS
	1...		TSBBIPI	PARTIAL LINE PROMPTING COMPLETE
	.1..		TSBAUTON	AUTO PROMPTING REQUESTED
	..1.		TSBBRKIN	BREAKIN HAS OCCURED
	...1		TSBAULST	AUTO LINE NUMBERING STARTED
	.... 1...		TSBAUTOC	AUTO CHARACTER PROMPT STARTED
	.... .1..		TSBSTAUT	PROMPT USER WITH NEXT LINE NO.
	.... ..1.		TSBSATN1	BITS 6 AND 7 ARE USED TO IND
	.... ...1		TSBSATN2	THE NO. OF CHARS (1-4) IN THE CHAR STRING FOR SIMULATED ATTN
17	(11) ADDRESS	3	TSBITBFP	PTR TO INPUT TRAILER BUFFERS RESULTING FROM TGET WITH INSUFFICIENT BUFFER SIZE
20	(14) CHARACTER	1	TSBNIBF	NO. OF BUFFERS ON INPUT QUEUE
21	(15) ADDRESS	3	TSBIBFP	PTR TO INPUT BUFFER QUEUE
24	(18) CHARACTER	1	TSBFLG3	THIRD FLAG BYTE BIT DEFINITIONS BIT 7 RESERVED
	1...		TSBATTN	ATTENTION HAS BEEN IGNORED
	.1..		TSBTJMSG	TSOUTPUT PROCESSING TJID MSG
	..1.		TSBSPIT	STOP PROMPTING IF TCLEARQ OR STBREAK
	...1		TSBNBKSP	NEXT CHAR IN USER'S BFFR IS A BACKSPACE CHAR
 1...		TSBAWOIP	AN ASID TPUT IS WAITING FOR A NORMAL

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1..		TSBTPUT	TPUT TO COMPLETE TCAM PROCESSING OF A TPUT IS NOT YET COMPLETE (CORRESPONDS TO QCBTPUT)
	.... ..1.		TSBNOBRK	USE OF BREAK FEATURE NOT CURRENTLY ALLOWED FOR THIS TERMINAL
25	(19) CHARACTER	1	TSBNFLOP TSBFLG5	FLASHBACK OF PASSWORD FIFTH FLAG BYTE. RESERVED
26	(1A) CHARACTER	2	TSBVTAM TSBTERMC	THIS IS A VTAM TSB TERMINAL CHARACTERISTICS
26	(1A) CHARACTER	1	TSBTERM1	1ST FLAG BYTE
	1...		TSBCIHBN	TIME-OUT INHIBITED
	.1..		TSBCBRK	BREAK FEATURE
	..1.		TSBCATTN	ATTENTION FEATURE
	...1		TSBC5041	LINE IS 5041
	.... 1...		TSBC2741	TERMINAL IS 2741
	.... .1..			RESERVED
	.... ..1.			RESERVED
	.... ...1			RESERVED
27	(1B) CHARACTER	1	TSBTERM2	2ND FLAG BYTE
	1...			RESERVED
	.1..			RESERVED
	..1.		TSBCTWX	TERMINAL IS TWX
	...1			RESERVED
	.... 1...			RESERVED
	.... .1..			RESERVED
	.... ..1.			RESERVED
	.... ...1		TSBC1050	TERMINAL IS 1050
28	(1C) SIGNED	4	TSBECB	ECB FOR INTER-TERMINAL COMMUNICATION (TPUT WITH TJID)
32	(20) SIGNED	2	TSBWTJID	TJID OF TASK WAITING ON TSBECEB
34	(22) SIGNED	2	TSBSTCC	SPECIAL USER CHAR FIELD
34	(22) CHARACTER	1	TSBLNDCC	LINE DELETE CHARACTER
35	(23) CHARACTER	1	TSBCHDCC	CHARACTER DELETE CHARACTER
36	(24) CHARACTER	2	TSBATNLC	NO. OF SUCCESSIVE OUTPUT LINES BETWEEN

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
38	(26) CHARACTER	2	TSBATNTC	ATTENTION SIMULATION NUMBER OF CONTINUOUS 1-SECOND TIME INTERVALS
40	(28) CHARACTER	1	TSBLNNO	NO. OF LINES ON A DISPLAY SCREEN
41	(29) CHARACTER	1	TSBFLG4	FLAG BYTE BIT DEFINITIONS
	1... ..		TSBOCAB	OUT-OF-CORE ABEND
	.1.. ..		TSBIWAIT	INPUT WAIT IN PROGRESS
	..1.		TSBOWAIT	OUTPUT WAIT IN PROGRESS
	...1		TSBHUNG	TERMINAL HAS HUNG UP
	.... 1...		TSBHOLD	TPUT HOLD IN PROGRESS
	.... .1..		TSBCANC	SESSION CANCELLED
	.... ..1.		TSBGETBF	TJID TPUT MAY GET AN EXTRA ALLOWANCE OF OUTPUT BUFFERS
	.... ...1		TSBHLDL	DON'T DISCONNECT LINE AFTER LOGOFF
42	(2A) CHARACTER	2	TSBASRCE	TCAM TERMINAL INDEX. EQUIVALENT TO PRFSRCE IN TCAM INPUT BUFFERS.
44	(2C) CHARACTER	4	TSBATNCC	CHARACTER STRING USED FOR ATTENTION SIM- ULATION
48	(30) SIGNED	4	TSBAUTOS	STARTING AND CURRENT SEQ NO. FOR AUTO LINE NUMBERING
52	(34) SIGNED	4	TSBAUTOI	INCREMENT VALUE FOR AUTO LINE NUMBERING
56	(38) SIGNED	4	TSBERSDS	CHARS USED TO ERASE SCREEN
60	(3C) SIGNED	4	TSBCTCB	TCB ADDRESS OF TASK CURRENTLY DOING A TPUT
64	(40) CHARACTER	8	TSBRCB	TCAM RESOURCE CTL BLK
64	(40) ADDRESS	4	TSBRQCB	RCB QCB POINTER
68	(44) ADDRESS	4	TSBLINKA	RCB LINK WORD
68	(44) CHARACTER	1	TSBPRI	TPOSTING PRIORITY
69	(45) ADDRESS	3	TSBLINKB	RCB LINKING FIELD

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
72	(48) CHARACTER	8	TSBTPOST	TPOSTING COMMUNICATIONS AREA UPDATED ONLY WITH CS/CDS
72	(48) CHARACTER	1	TSBTPLG	TPOSTING FLAGS BIT DEFINITIONS BITS 3 7 RESERVED
	1... ..		TSBPOSTO	TPOST OF TSB OUTSTANDING
	.1.. ..		TSBTQCB	TPOST TERM. DEST. QCB
	..1.		TSBTPAYI	TPOST TSI TO TSINPUT
	...1		TSBNEWID	UPDATE QCB TJID WITH NEW ASCBASID
	.... 1...			RESERVED
	.... .1..			RESERVED
	.... ..1.			RESERVED
	.... ...1			RESERVED
73	(49) CHARACTER	1		RESERVED
74	(4A) CHARACTER	1	TSBFLAGM	QCBFLAG SUBSTITUTION MASK. INDICATES BIT POSITIONS TO CHANGE IN QCBFLAG.
75	(4B) CHARACTER	1	TSBFLAGV	QCBFLAG SUBSTITUTION VALUE. INDICATES BIT VALUES TO SUBSTITUTE FOR CHANGING BIT POSITIONS IN QCBFLAG.
76	(4C) CHARACTER	1	TSBF2M	QCBTSOF2 SUBSTITUTION MASK
77	(4D) CHARACTER	1	TSBF2V	QCBTSOF2 SUBSTITUTION VALUE
78	(4E) CHARACTER	1	TSBF1M	QCBTSOF1 SUBSTITUTION MASK
79	(4F) CHARACTER	1	TSBF1V	QCBTSOF1 SUBSTITUTION VALUE
80	(50) CHARACTER	1	TSBATTNC	NO. OF UNPROCESSED ATTN'S
81	(51) CHARACTER	1	TSBSTAX	NO. OF UNSCHEDULED STAX EXITS
82	(52) CHARACTER	2	TSBLINE	LINE ADDRESS OR 3705 RESOURCE I.D. OF THIS TERMINAL.
84	(54) SIGNED	4	TSBMINL	NO. OF MINUTES LEFT BEFORE A DISCONNECTED USER WILL BE LOGGED OFF.
84	(54) ADDRESS	4	TSBLECB	TIOC LOGOFF WAITS ON THIS ECB WHILE TIOC FINISHES TCAM PROCESSING FOR A TERMINATING MEMORY.
88	(58) CHARACTER	8	TSBPSWD	LOGON PASSWORD
96	(60) ADDRESS	4	TSBEXTNT	ADDRESS OF TSB EXTENTION

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
100	(64) CHARACTER	4		RESERVED
104	(68) CHARACTER	8	TSBTRMID	TERMINAL SYMBOLIC NAME
112	(70) CHARACTER	8	TSBSF1	SECURITY FIELD 1
120	(78) CHARACTER	0	TSBEND	TSB FORCED TO DOUBLE WORD BOUNDARY
0	(0) STRUCTURE	88	TSBX	
0	(0) ADDRESS	4	TSBXFWD	TSO/VTAM TSB FORWARD POINTER
4	(4) ADDRESS	4	TSBXBCK	TSO/VTAM TSB BACKWARD POINTER
8	(8) SIGNED	4	TSBXECB	X-MEM SYNC ECB FOR RECONNECT
12	(C) SIGNED	4		RESERVED
16	(10) CHARACTER	8		RESERVED
24	(18) CHARACTER	8	TSBXUID	USER IDENTIFICATION
32	(20) CHARACTER	1	TSBXFLG1	FIRST TSBX FLAG BYTE
	1... ..		TSBXASCI	ASCII CODE SPECIFIED ON BIND
	.1..		TSBXACTV	TERMINAL CONTROL IN ADDRESS SPACE.
	..1.		TSBXLOGF	VTAM LOGOFF RECURSION
	...1		TSBXWREC	WAITING FOR RECONNECT
	.... 1111			RESERVED
33	(21) CHARACTER	3		RESERVED
36	(24) ADDRESS	4	TSBXTVWA	POINTER TO TSO/TVWA WORK AREA (TVWA)
40	(28) ADDRESS	4	TSBXTIM	CURRENT 'TIM' POINTER
44	(2C) ADDRESS	4	TSBXTOM	CURRENT 'TOM' POINTER
48	(30) SIGNED	4		RESERVED
52	(34) ADDRESS	4	TSBXS RBI	POINTER TO THE TIM SRB

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
56	(38) ADDRESS	4	TSBXSRB	POINTER TO THE TOM SRB
60	(3C) ADDRESS	4	TSBXCSAP	POINTER TO THE CSA AREA FOR ASID TPUTS
64	(40) ADDRESS	4	TSBXLBUF	POINTER TO THE LOGON BUFFER
68	(44) UNSIGNED	2		RESERVED
70	(46) SIGNED	2	TSBXAIND	TSO/VT USER APPL INDEX
72	(48) CHARACTER	4	TSBXTERM	TERMINAL CHARACTERISTICS
72	(48) UNSIGNED	1	TSBXTMTP	TERMINAL TYPE
73	(49) CHARACTER	1		RESERVED
74	(4A) SIGNED	2	TSBXTMBF	TERMINAL BUFFER SIZE
76	(4C) ADDRESS	4	TSBXRPL	POINTER TO RPL IN TCAS
80	(50) CHARACTER	8		RESERVED
88	(58) CHARACTER	0	TSBXEND	END OF TSBX FORCED TO DOUBLE WORD BOUNDARY

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
TSB	0		TSBFLG4	29		TSBPSWD	58	
TSBANSR	4	80	TSBFLG5	19		TSBRCB	40	
TSBASCB	1		TSBF1M	4E		TSBRQCB	40	
TSBASCBA	0		TSBF1V	4F		TSBSATN1	10	02
TSBASRCE	2A		TSBF2M	4C		TSBSATN2	10	01
TSBATNCC	2C		TSBF2V	4D		TSBSF1	70	
TSBATNLC	24		TSBGETBF	29	02	TSBSPIT	18	20
TSBATNLD	0	01	TSBHLDL	29	01	TSBSTAT	0	
TSBATNTC	26		TSBHOLD	29	08	TSBSTAUT	10	04
TSBATTN	18	80	TSBHUNG	29	10	TSBSTAX	51	
TSBATTNC	50		TSBIBFP	15		TSBSTCC	22	
TSBAULST	10	10	TSBIFLSH	4	08	TSBTERMC	1A	
TSBAUTOC	10	08	TSBINUSE	0	80	TSBTERM1	1A	
TSBAUTOI	34		TSBITBFP	11		TSBTERM2	1B	
TSBAUTON	10	40	TSBITOFF	0	08	TSBTJBF	4	01
TSBAUTOS	30		TSBIWAIT	29	40	TSBTJIP	4	02
TSBAWOIP	18	08	TSBLECB	54		TSBTJMSG	18	40
TSBBIPI	10	80	TSBLINE	52		TSBTJOW	4	04
TSBBRKIN	10	20	TSBLINKA	44		TSBTPAYI	48	20
TSBCANC	29	04	TSBLINKB	45		TSBTPFLG	48	
TSBCATTN	1A	20	TSBLNDCC	22		TSBTPOST	48	
TSBCBRK	1A	40	TSBLNNO	28		TSBTPQCB	48	40
TSBCHDCC	23		TSBLNSZ	8		TSBTPUT	18	04
TSBCIHBN	1A	80	TSBLWAIT	0	40	TSBTRMID	68	
TSBCTCB	3C		TSBMINL	54		TSBVTAM	19	01
TSBCTWX	1B	20	TSBNBKSP	18	10	TSBWOWIP	4	10
TSBC1050	1B	01	TSBNEWID	48	10	TSBWTCB	5	
TSBC2741	1A	08	TSBNFLOP	18	01	TSBWTJID	20	
TSBC5041	1A	10	TSBNIBF	14		TSBX	0	
TSBDISC	0	04	TSBNOBF	C		TSBXACTV	20	40
TSBDSPLY	0	20	TSBNOBRK	18	02	TSBXAIND	46	
TSBECB	1C		TSBNOBUF	0	10	TSBXASCI	20	80
TSBEND	78		TSBOBFP	D		TSBXBCK	4	
TSBERSDS	38		TSBOCAB	29	80	TSBXCSAP	3C	
TSBEXTNT	60		TSBOFLSH	4	40	TSBXECB	8	
TSBFLAGM	4A		TSBOTBFP	9		TSBXEND	58	
TSBFLAGV	4B		TSBOWAIT	29	20	TSBXFLG1	20	
TSBFLG1	4		TSBOWIP	4	20	TSBXFWD	0	
TSBFLG2	10		TSBPOSTO	48	80	TSBXLBUF	40	
TSBFLG3	18		TSBPRI	44		TSBXLQGF	20	20

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
TSBXRPL	4C		TSBXTIM	28		TSBXTVWA	24	
TSBXS RB	38		TSBXTMBF	4A		TSBXUID	18	
TSBXS R BI	34		TSBXTMTP	48		TSBXWREC	20	10
TSBXTERM	48		TSBXTOM	2C		TSB3270	0	02

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TSVT

Common Name : TSO Vector Table
 Macro ID : IKJTSVT
 DSECT Name : TSVT
 Created by : IKJEFXSR
 Subpool and Key : 241 and key 0
 Size : 120 bytes
 Pointed to by : CVTTVT field of the CVT data area
 Serialization : None
 Function : Contains addresses of branch entered routines and control tables.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	0 TSVT	
0	(0)	CHARACTER	4 TSVTTSVT	ACRONYM IN EBCDIC 'TSVT'
4	(4)	CHARACTER	1 TSVTLEV	TSVT VERSION
5	(5)	CHARACTER	3 TSVTRSV1	RESERVED
8	(8)	ADDRESS	4 TSVTNCT	ADDRESS OF THE MOST CURRENT NOTICE TABLE
12	(C)	ADDRESS	4 TSVTVACC	ADDRESS OF THE CLIST VARIABLE ACCESS ROUTINE
16	(10)	ADDRESS	4 TSVTASF	ADDRESS OF THE AUTHORIZED SERVICE FACILITY ROUTINE
20	(14)	ADDRESS	4 TSVTRSV2	RESERVED
24	(18)	ADDRESS	4 TSVTRSV3	RESERVED
28	(1C)	ADDRESS	4 TSVTRSV4	RESERVED
32	(20)	ADDRESS	4 TSVTRSV5	RESERVED
36	(24)	ADDRESS	4 TSVTRSV6	RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
40	(28) ADDRESS	4	TSVTRSV7	RESERVED
44	(2C) ADDRESS	4	TSVTRSV8	RESERVED

THE FOLLOWING DECLARATIONS DEFINE THE ENTRY AND RETURN CODES
 USED BY THE CLIST VARIABLE ACCESS ROUTINE (POINTED TO BY
 TSVSVACC).
 ENTRY CODES

.... ..1	TSVERETR	"1" RETURN VARIABLE VALUE
.... ..1.	TSVEUPDT	"2" UPDATE VARIABLE
.... ..11	TSVELOC	"3" LOCATE LOCATE NEXT
.... ..1..	TSVERSVD	"4" RESERVED

RETURN CODES

....	TSVR0K	"0" EVERY THING OK
.... ..1..	TSVRNORS	"4" VARIABLE RETURNED SHOULDN'T BE RE-SCANNED
.... 1...	TSVREVAL	"8" VARIABLE RETURNED REQUIRES EVALU- ATION
.... 11..	TSVRLAB	"12" VARIABLE RETURNED IS A LABEL
...1	TSVRNAUP	"16" SYSTEM VARIABLE CAN'T BE UPDATED BY THE USER
...1 ..1..	TSVRNOM	"20" FOR LOCATE NO VARIABLE RETURNED THERE ARE NO MORE VARIABLES
..1.	TSVRGETF	"32" GETMAIN/FREEMAIN FAILURE
..1. ..1..	TSVRNSIZ	"36" SYMBOL NAME TOO LARGE OR SMALL
..1. 1...	TSVRENV	"40" INCORRECT ENVIRONMENT
..1. 11..	TSVRPARG	"44" INVALID ENTRY CODE
..11	TSVRDUP	"48" DUPLICATE SYMBOL FOUND
..11 ..1..	TSVRUNDF	"52" UNDEFINED VARIABLE
..11 1...	TSVRGLER	"56" TOO MANY GLOBAL VARIABLES
..11 11..	TSVRUNDG	"60" UNDEFINED GLOBAL VARIABLE

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TTE

Common Name : Trace Table Entry
 Macro ID : None
 DSECT Name : None
 Created by : IEAVNIP0; moved by: IEAVNIPX; freed by: IEEVWAIT
 Subpool and Key : 245 and key 0
 Size : Each entry is 32 bytes
 Pointed to by : Trace table header (pointed to by FLCTRACE field of the PSA data area.

- *. Current entry - Pointed to by trace table header + 0
- *. First entry - Pointed to by trace table header + 4
- *. Last entry - Pointed to by trace table header + 8

Serialization : None

Function : The system trace table provides a record of events that have occurred. This trace table and its number of entries are an option that may be selected at system generation time. The following events cause entries in the system trace table: SIO instruction; I/O interruption; program interruption; external interruption; each entry to the dispatcher; SVC interruption; SVC return; PC (program call); PT (program transfer); SSAR (set secondary ASID). *. NOTE - This is a mapping of the trace table entry; a macro is not available. *. The names defined are for mapping use only.

OFFSETS TYPE LENGTH NAME DESCRIPTION

0 (0) STRUCTURE 0 TTE

TRACE TABLE ENTRY TYPES

2	(2) BITSTRING	1		TYPE CODE (CONTAINED IN BITS 0, 1, 2, AND 3)
	.... ....		SIO	"X'00'" (0) SIO START INPUT/OUTPUT
	...1		EXT	"X'10'" (1) EXT EXTERNAL INTERRUPT
	..1.		SVC	"X'20'" (2) SVC SVC INTERRUPT
	..11		PGM	"X'30'" (3) PGM PROGRAM INTERRUPT
	.1..		ISD	"X'40'" (4) ISD INITIAL SRB DISPATCH
	.1.1		IO	"X'50'" (5) I/O INPUT/OUTPUT INTERRUPT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.11.			SSR	"X'60'" (6) SSR SUSPENDED SRB REDISPATCH
.111			DSP	"X'70'" (7) DSP TASK DISPATCH
1...			RET	"X'80'" (8) RET SVC RETURN
1..1			PC	"X'90'" (9) PC PROGRAM CALL
1.1.			PT	"X'A0'" (A) PT PROGRAM TRANSFER
1.11			SSAR	"X'B0'" (B) SSAR SET SECONDARY ASID

ENTRY TYPE 0 (SIO -- START INPUT/OUTPUT)

0	(0) BITSTRING	1		CONDITION CODE
1	(1) ADDRESS	3		DEVICE ADDRESS
4	(4) SIGNED	4		CHANNEL ADDRESS WORD
8	(8) CHARACTER	8		CHANNEL STATUS WORD
16	(10) SIGNED	4		IOSB ADDRESS FROM IOS
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PROGRAM MASK
21	(15) BITSTRING	1		BITS 0-3 CONTAIN CHANNEL SET ID BITS 4-7 CONTAIN PHYSICAL CPU ID
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		TCB ADDRESS FROM SRB
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)

ENTRY TYPE 1 (EXT -- EXTERNAL INTERRUPT)

0	(0) CHARACTER	8		EXTERNAL OLD PSW
2	(2) BITSTRING	1		INTERRUPT CODE (BYTE 1)
3	(3) BITSTRING	1		INTERRUPT CODE (BYTE 2)
1...			INTTIMER	"X'80'" INTERNAL TIMER
.1..			INTRPKEY	"X'40'" INTERRUPT KEY

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..11 1111			EXTRSGNL	"X'3F'" EXTERNAL SIGNALS
....			MALALERT	"X'00'" MALFUNCTION ALERT (WITH INTERRUPT CODE (BYTE 1) BIT 6 ON)
.... ...1			EMERSGNL	"X'01'" EMERGENCY SIGNAL (WITH INTERRUPT CODE (BYTE 1) BIT 6 ON)
.... ..1.			EXTRCALL	"X'02'" EXTERNAL CALL (WITH INTERRUPT CODE (BYTE 1) BIT 6 ON)
.... ..11			TODSYNCK	"X'03'" TOD SYNC CHK
.... .1..			CLKCOMPR	"X'04'" CLOCK COMPARATOR
.... .1.1			CPUTIMER	"X'05'" CPU TIMER
8	(8) SIGNED	4		FOR EMERGENCY SIGNAL, PCCAMESI. OTHERWISE PSW S-BIT, PASID, AND SASID.
12	(C) SIGNED	4		FOR EMERGENCY SIGNAL, PCCAEMSP. FOR EXTERNAL CALL, PCCARPB. OTHERWISE REGISTER 0 CONTENTS
16	(10) SIGNED	4		FOR EMERGENCY SIGNAL, PCCAEMSE. FOR EXTERNAL CALL, PSASPAD. OTHERWISE REGISTER 1 CONTENTS
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PROGRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		CURRENT OR TQE TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)
ENTRY TYPE 2 (SVC -- SVC INTERRUPT)				
0	(0) FLOATING	8		SVC OLD PSW
8	(8) SIGNED	4		REGISTER 15 CONTENTS

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) SIGNED	4		REGISTER 0 CONTENTS
16	(10) SIGNED	4		REGISTER 1 CONTENTS
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PRO- GRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		CURRENT TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)
ENTRY TYPE 2 (SVC -- SVC ERROR)				
0	(0) FLOATING	8		SVC OLD PSW, ADDRESS PORTION =X'FFFFFFFF'
8	(8) BITSTRING	2		PSW S-BIT (BIT 0), PASID (BITS 1-15)
10	(A) BITSTRING	2		SASID
12	(C) SIGNED	4		PSAHLHI CONTENTS, HIGHEST LOCK HELD INDICATOR
16	(10) SIGNED	4		PSAMODEW CONTENTS, SYSTEM MODE WORD
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PRO- GRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		CURRENT TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)

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OFFSETS TYPE LENGTH NAME DESCRIPTION

ENTRY TYPE 3 (PGM -- PROGRAM INTERRUPT)

0	(0) FLOATING	8		PROGRAM INTERRUPT OLD PSW
8	(8) BITSTRING	2		PSW S-BIT (BIT 0), PASID (BITS 1-15)
10	(A) BITSTRING	2		SASID
12	(C) SIGNED	4		TRANSLATION EXECPTION ADDRESS
16	(10) SIGNED	4		REGISTER 1 CONTENTS
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PRO- GRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		CURRENT TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)

ENTRY TYPE 4 (ISD -- INITIAL SRB DISPATCH)

0	(0) FLOATING	8		NEW PSW
8	(8) BITSTRING	2		ZERO
10	(A) BITSTRING	2		PURGE ASID
12	(C) SIGNED	4		REGISTER 0 CONTENTS (SRB ADDRESS)
16	(10) SIGNED	4		REGISTER 1 CONTENTS (PARAMETER LIST ADDRESS)
20	(14) BITSTRING	1		ZERO

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		CURRENT ASID
24	(18) SIGNED	4		PURGE TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)
ENTRY TYPE 5 (I/O -- INPUT/OUTPUT INTERRUPT)				
0	(0) FLOATING	8		I/O OLD PSW
8	(8) FLOATING	8		CHANNEL STATUS WORD
16	(10) SIGNED	4		RESERVED
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PROGRAM MASK
21	(15) BITSTRING	1		BITS 0-3 CONTAIN CHANNEL SET ID THIS FIELD IS ZERO UNLESS CHANNEL SET SWITCHING IS INSTALLED BITS 4-7 PHYSICAL CPU ID
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		CURRENT TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)
ENTRY TYPE 6 (SSR -- SUSPENDED SRB REDISPATCH)				
0	(0) FLOATING	8		NEW PSW
8	(8) BITSTRING	2		PSW S-BIT (BIT 0), PASID (BITS 1-15)
10	(A) BITSTRING	2		SASID

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) BITSTRING	2		ZERO
14	(E) BITSTRING	2		PURGE ASID
16	(10) SIGNED	4		REGISTER 1 CONTENTS
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PRO- GRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		CURRENT ASID
24	(18) SIGNED	4		PURGE TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)
ENTRY TYPE 7 (DSP -- TASK DISPATCH)				
0	(0) FLOATING	8		NEW PSW
8	(8) BITSTRING	2		PSW S-BIT (BIT 0), PASID (BITS 1-15)
10	(A) BITSTRING	2		SASID
12	(C) SIGNED	4		REGISTER 0 CONTENTS (NEW)
16	(10) SIGNED	4		REGISTER 1 CONTENTS (NEW)
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PRO- GRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		NEW TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)
ENTRY TYPE 8 (RET -- SVC RETURN)				

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) FLOATING	8		NEW PSW
8	(8) SIGNED	4		REGISTER 15 CONTENTS (NEW)
12	(C) SIGNED	4		REGISTER 0 CONTENTS (NEW)
16	(10) SIGNED	4		REGISTER 1 CONTENTS (NEW)
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PROGRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		NEW TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)

ENTRY TYPE 9 (PC -- PROGRAM CALL)

0	(0) FLOATING	8		NEW PSW
8	(8) SIGNED	2		NEW PASID
10	(A) SIGNED	2		NEW SASID
12	(C) SIGNED	4		REGISTER 14 CONTENTS (NEW)
16	(10) SIGNED	4		0
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PROGRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		ZERO
24	(18) SIGNED	4		PC NUMBER
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)

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OFFSETS TYPE LENGTH NAME DESCRIPTION

ENTRY TYPE A (PT -- PROGRAM TRANSFER)

0	(0) FLOATING	8		NEW PSW
8	(8) SIGNED	2		NEW PASID
10	(A) BITSTRING	2		ZERO
12	(C) SIGNED	2		OLD PASID
14	(E) BITSTRING	6		ZERO
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PROGRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	6		ZERO
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)

ENTRY TYPE B (SSAR - SET SECONDARY ASID)

0	(0) FLOATING	8		NEW PSW
8	(8) SIGNED	2		PASID
10	(A) SIGNED	2		NEW SASID
12	(C) BITSTRING	2		ZERO
14	(E) SIGNED	2		OLD SASID
16	(10) BITSTRING	4		ZERO
20	(14) BITSTRING	1		INSTRUCTION LENGTH/CONDITION CODE/ PROGRAM MASK
21	(15) BITSTRING	1		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	6		ZERO

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) SIGNED	4		TIMER VALUE (BYTES 3-6 OF TOD CLOCK)

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
CLKCOMPR	3	04	INTTIMER	3	80	RET	2	80
CPUTIMER	3	05	IO	2	50	SIO	2	00
DSP	2	70	ISD	2	40	SSAR	2	B0
EMERSGNL	3	01	MALALERT	3	00	SSR	2	60
EXT	2	10	PC	2	90	SVC	2	20
EXTRCALL	3	02	PGM	2	30	TODSYNCK	3	03
EXTRSGNL	3	3F	PT	2	A0	TTE	0	
INTRPKEY	3	40						

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TVCS

Common Name : TSO/VTAM CSA Area
 Macro ID : IKTTVCS
 DSECT Name : TVCS
 Created by : VTIOC routine, IKTASTPT
 Subpool and Key : 231 and key 6
 Size : 20 bytes + value in TVCSDASZ
 Pointed to by : TSBXCSAP field of the TSBX data area
 Serialization : None
 Function : The TVCS is used to move output data and edit options
 from an address space that issues a TPUT with ASID to the
 target address space.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	116	TVCS	TSO/VTAM CSA AREA FOR ASID TPUT'S
0	(0) UNSIGNED	72	TVCSAVEA	SAVEAREA FOR IKTXMTPT
72	(48) SIGNED	4	TVCSPARM	PARAMETER ADDRESS
76	(4C) CHARACTER	20	TVC SOPRM	OPARMS AREA
96	(60) SIGNED	4	TVCSECB	USED FOR XMPOST
	1... ..		TVCWAIT	WAIT BIT
	.1.. ..		TVCSPOST	POST BIT
	..11 1111			
97	(61) ADDRESS	3	TVCSCODE	ECB POST CODE
100	(64) SIGNED	2	TVCSDASZ	USER DATA SIZE
102	(66) SIGNED	2	TVCSGMSZ	GETMAIN SIZE
104	(68) UNSIGNED	1	TVC SOPTN	TPUT OPTIONS
	1... ..		TVC SPTGT	TPUT =0, TGET=1
	.1.. ..			RESERVED
	..1.		TVCSPRIO	HIGHP=0, LOWP=1
	...1		TVC SNOWT	WAIT =0, NOWAIT=1
 1...		TVC SHOLD	NOHOLD=0, HOLD=1
1..		TVC SBRK	NOBREAK=0, BREAK =1

TVCS

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
10511 (69) ADDRESS	3	TVCSEDIT TVCSSRBA	EDIT=00,ASID=01,CNTL=10, FULLSCRN=11 POINTER TO SRB IN CSA
108	(6C) ADDRESS	4	TVCSASCB	SOURCE ASCB ADDRESS
112	(70) SIGNED	4	TVCSINDS	HAND SHAKING INDICATORS BETWEEN ADDRESS SPACES
	1... ..		TVCSRCRC	SOURCE ADDRESS SPACE RELINQUISHES CON- TROL OF CSA AREAS
	.1... ..		TVCSSTGRC	TARGET ADDRESS SPACE RELINQUISHES CON- TROL OF CSA AREAS
	..11 1111 1111 1111 1111 1111 1111 1111			
116	(74) CHARACTER	0	TVCSDATA	START OF TPUT DATA AREA

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TVWA

Common Name : TSO/VTAM Work Area
 Macro ID : IKTTVWA
 DSECT Name : TVWA
 Created by : VTIOC routine, IKTXINIT
 Subpool and Key : 229 and key 6
 Size : 216 bytes
 Pointed to by : TSBXTVWA field of the TSBX data area
 Serialization : LOCAL lock
 Function : The TVWA provides control information, control block pointers, and work area pointers for TSO/VTAM time sharing.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	248	TVWA	
0	(0) CHARACTER	8	TVWAPPL	TSO USER APPLID
8	(8) ADDRESS	4	TVWATIMW	PTR TO TIM WORK AREA AND PARM LIST
12	(C) ADDRESS	4	TVWATOMW	POINTER TO TOM WORK AREA
16	(10) ADDRESS	4	TVWALLWA	POINTER TO WORK AREA FOR LOCALLY LOCKED ROUTINES
20	(14) ADDRESS	4	TVWAQMWA	A(WORK AREA FOR QUEUE MANAGER AND IKTVTGTF)
24	(18) ADDRESS	4	TVWABIQ	A(BEGINNING OF INPUT QUEUE)
28	(1C) ADDRESS	4	TVWANIM	A(NEXT INPUT MESSAGE)
32	(20) ADDRESS	4	TVWAEIQ	A(END OF INPUT QUEUE)
36	(24) ADDRESS	4	TVWABOQ	A(BEGINNING OF OUTPUT QUEUE)
40	(28) ADDRESS	4	TVWANOM	A(NEXT OUTPUT MESSAGE)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44	(2C) ADDRESS	4	TVWAEQ	A(END OF OUTPUT QUEUE)
48	(30) CHARACTER	4	TVWACPID	CELL POOL IDENTIFIER
52	(34) ADDRESS	4		RESERVED
56	(38) SIGNED	4	TVWAUSMN	AMOUNT OF USED MAIN STORAGE USED FOR TPUTS
60	(3C) ADDRESS	4	TVWATCB	A(TASK CONTROL BLOCK)
PARMLIB VALUES FIXED PER SESSION				
64	(40) SIGNED	4	TVWAHBUF	HIGH BUFFER THRESHOLD
68	(44) SIGNED	4	TVWALBUF	LOW BUFFER THRESHOLD
72	(48) SIGNED	2	TVWACLSZ	CELL POOL CELL SIZE
74	(4A) SIGNED	2	TVWACHNL	MAXIMUM NUMBER OF RU'S IN CHAIN
END OF PARMLIB VALUES				
76	(4C) ADDRESS	4	TVWAFRWI	A(INPUT MANAGER FRR WORK AREA)
80	(50) ADDRESS	4	TVWAFRWO	A(OUTPUT MANAGWR FRR WORK AREA)
84	(54) ADDRESS	4	TVWAACB	A(ACB)
88	(58) ADDRESS	4	TVWANIB	A(NIB)
92	(5C) ADDRESS	4	TVWARPL	A(RPL)
96	(60) ADDRESS	4	TVWAEXL	A(EXLST)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
100	(64) ADDRESS	4	TVWAVST	A(VARIABLE STORAGE AREA)
104	(68) SIGNED	4	TVWAVSZ	NUMBER OF BYTES IN THE VARIABLE STORAGE AREA
108	(6C) CHARACTER	12	TVWADLST	INIT ROUTINE LIST
108	(6C) ADDRESS	4	TVWADIN1	ADDR 3270 INIT PROC
112	(70) ADDRESS	4	TVWADIN2	ADDR 3767/3770 INIT PROC
116	(74) ADDRESS	4	TVWADIN3	ADDR USER EXIT FOR INIT
120	(78) ADDRESS	4	TVWATGTF	A(GTF TRACE DATA)
124	(7C) ADDRESS	28		RESERVED
152	(98) SIGNED	4	TVWAECB	TERMINAL CONTROL ECB
156	(9C) SIGNED	4	TVWATECB	TIMER ECB
160	(A0) CHARACTER	12	TVWAECBL	RECONNECT ECB LIST
160	(A0) ADDRESS	4	TVWAECB1	A(CANCEL ECB) = A(CHCECB)
164	(A4) ADDRESS	4	TVWAECB2	A(RECONNECT ECB) = A(TSBXECB)
168	(A8) ADDRESS	4	TVWAECB3	A(TIMER ECB) = A(TVWAECB)
172	(AC) ADDRESS	4	TVWATABI	A(INBOUND TRANSLATE TABLE)
176	(B0) ADDRESS	4	TVWATABO	A(OUTBOUND TRANSLATE TABLE)
180	(B4) ADDRESS	4	TVWAATBI	A(INBOUND ASCII XLATE TABLE)
184	(B8) ADDRESS	4	TVWAATBO	A(OUTBOUND ASCII XLATE TABLE)
188	(BC) CHARACTER	8	TVWATRNM	NAME OF USER TRANSLATE TABLE LIBRARY MEMBER

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
196	(C4) SIGNED	2	TVWALNSV	LINE COUNT SAVE AREA
198	(C6) SIGNED	2	TVWALNCT	CURRENT SCREEN LINE COUNT
200	(C8) SIGNED	2	TVWAWLNO	NUMBER OF LINES AVAILABLE FOR USE ON SCREEN
202	(CA) SIGNED	2	TVWAWLSZ	NUMBER OF CHARACTERS PER LINE AVAILABLE FOR USE ON SCREEN
204	(CC) CHARACTER	1	TVWARSHW	RESHOW CODE BYTE FOR FULL SCREEN APPLICATION
205	(CD) CHARACTER	7		RESERVED
212	(D4) SIGNED	2	TVWAATTN	ATTENTION WITH STAX COUNT
214	(D6) SIGNED	2	TVWARMAX	MAXIMUM RU SIZE FOR TERMINAL
216	(D8) SIGNED	2	TVWARTR	RETRY COUNTER
218	(DA) SIGNED	2	TVWANCNT	COLUMN COUNT OF EXPECTED INPUT
220	(DC) SIGNED	4		RESERVED
224	(E0) CHARACTER	8	TVWAUSRA	AREA FOR INSTALLATION DATA
232	(E8) CHARACTER	16	TVWAFLAG	FLAG BYTE AREA
232	(E8) CHARACTER	1	TVWAFLG0	RESERVED
233	(E9) CHARACTER	1	TVWAFLG1	FLAG BYTE
	1... ..		TVWATOD	TOM HAS FREED WORK AREA AND EXITED NORMALLY
	.1..		TVWATIS	TOM IS SCHEDULED
	..1.		TVWATAS	TOM NOT AVAILABLE FOR SCHEDULING
	...1		TVWATID	TIM HAS FREED WORK AREA AND EXITED NORMALLY
	.... 1..		TVWAXSCD	EXAMINE WORKING SCR DIMENS
	.... .1..		TVWAILE	IGNORE LOSTTERM ENTRY BECAUSE LOSTERM ALREADY ENTERED
	.... ..1.		TVWALTE	LOSTERM ENTERED
	.... ...1		TVWAOOPS	OUT OF PAPER INDICATOR
234	(EA) CHARACTER	1	TVWAFLG2	FLAG BYTE
	1... ..		TVWAENDS	USER SESSION ENDED
	.1..		TVWAPGN	3270 SCREEN PAGING
	..1.			RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
		RESERVED
	...	1...	TVWAERMG	INPUT DATA LOST ERROR MESSAGE REQUIRED
	...	.1..	TVWANLRQ	NEW LINE SHOULD BE SENT TO THE TERMINAL
	...	..1.	TVWACRRQ	CARRIAGE RETURN SHOULD BE SENT TO THE TERMINAL
	...	...1	TVWABIR	BREAKIN REQUEST ON OUTPUT QUEUE
235	(EB) CHARACTER	1	TVWAFLG3	FLAG BYTE
	1...	....	TVWABRIN	TOM SENT SIGNAL FOR TPUT-BREAKIN
	.1..	....	TVWASDSG	DIRECTION IS REQUIRED BY TIM, BUT IS NOT AVAILABLE
	..1.	....	TVWAAIGN	ATTENTION IGNORED
	...1	....	TVWAQMRT	QUEUE MANAGER RETRYING ABENDED REQUEST
	....	1...	TVWAQMIO	WHICH QUEUE SERVICE 0-IN,1-OUT
	....	.1..		RESERVED
	....	..1.	TVWATRAN	TRANSLATE TABLE IN USE
	....	...1	TVWATRDF	DEFAULT TRANSLATE TABLES IN USE
236	(EC) CHARACTER	1	TVWAFLG4	FLAG BYTE
	1...	....	TVWAFMSC	FORMAT 3270 SCREEN
	.1..	....	TVWAD00Q	DATA ON OUTPUT QUEUE
	..1.	....		RESERVED
	...1	....	TVWANOFB	NO FLASH BACK. LAST OUTPUT HAD BYPASS SET
	....	1...		RESERVED
	....	.1..	TVWAQMEV	FOOTPRINT FOR QUEUE ELEMENT VERIFICATION ROUTINE
	....	..1.	TVWARCRS	RECEIVE RESPONSES
	....	...1		RESERVED
237	(ED) CHARACTER	1	TVWAFLG5	FLAG BYTE
	1...	....		RESERVED
	.1..	....	TVWAFSM	DISPLAY IN FULL SCREEN MODE
	..1.	....		RESERVED
	...1	....	TVWAFSW	FULL SCR TPUT WAITING
	....	1...	TVWATIR	TOM IS RUNNING
	....	.1..	TVWANFSP	NO FULL SCREEN 'PAGING' AFTER NON-FULLSCREEN TPUT
	....	..1.	TVWAPRMT	PROMPTING IS IN EFFECT
	....	...1	TVWAP1ST	FIRST PROMPT
238	(EE) CHARACTER	1	TVWAFLG6	FLAG BYTE
	1...	TVWAI SYS	IWAIT SYSEVENT ISSUES
	.1..	TVWAIOTR	I/O TRANSACTION 1=IN,0=OUT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.			RESERVED
	...1		TVWARCDT	TIM HAS READ BUFFER CONTENTS
	.... 1...		TVWAFMEW	SENT FORMATTING ERASE-WRT
	.... .1..			RESERVED
	.... ..1.		TVWALTS	ALTERNATE SCREEN SIZE IN USE
	.... ...1		TVWASCSW	SCREEN SWITCHED BY CLEAR
239	(EF) CHARACTER	1	TVWAFLG7	FLAG BYTE
	1...		TVWABKPG	BREAK-IN PAGING
	.1..		TVWATGET	TGET IS PENDING
	..1.		TVWARDBF	TOM ISSUED READ BUFFER
	...1			RESERVED
	.... 1...		TVWARISW	I/O MGRS REINITIALIZED
	.... .1..			RESERVED
	.... ..1.			RESERVED
	.... ...1		TVWAFRRR	IKTIOFRR IS RECURSING
240	(F0) CHARACTER	1	TVWAFLG8	STATE INDICATORS
	11..		TVWABRKT	BRACKET STATE
	..11		TVWADIRS	DIRECTION STATE
	.... 11..		TVWAKEYB	KEYBOARD STATE APPLICABLE ONLY TO 3270 DEVICES
	.... 1...		TVWAKEYL	KEYBOARD IS LOGICALLY OPEN FOR INPUT
	.... .1..		TVWAKEYP	KEYBOARD IS PHYSICALLY OPEN FOR INPUT
	.... ..11			RESERVED
241	(F1) CHARACTER	1	TVWAFLG9	RESERVED
242	(F2) CHARACTER	1	TVWAFLGA	RESERVED
243	(F3) CHARACTER	1	TVWAFLGB	RESERVED
244	(F4) CHARACTER	1	TVWAFLGC	RESERVED
245	(F5) CHARACTER	1	TVWAFLGD	RESERVED
246	(F6) CHARACTER	1	TVWAFLGE	RESERVED
247	(F7) CHARACTER	1	TVWAFLGF	RESERVED
248	(F8) CHARACTER	0	TVWAEND	END OF TSO/VTAM WORK AREA

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
TVWA	0		TVWAFLG0	E8		TVWAPRMT	ED	02
TVWAACB	54		TVWAFLG1	E9		TVWAP1ST	ED	01
TVWAAIGN	EB	20	TVWAFLG2	EA		TVWAQMEV	EC	04
TVWAATBI	B4		TVWAFLG3	EB		TVWAQMIO	EB	08
TVWAATB0	B8		TVWAFLG4	EC		TVWAQMRT	EB	10
TVWAATTN	D4		TVWAFLG5	ED		TVWAQMW	14	
TVWABIQ	18		TVWAFLG6	EE		TVWARCDT	EE	10
TVWABIR	EA	01	TVWAFLG7	EF		TVWARCRS	EC	02
TVWABKPG	EF	80	TVWAFLG8	F0		TVWARDBF	EF	20
TVWABOQ	24		TVWAFLG9	F1		TVWARISW	EF	08
TVWABRIN	EB	80	TVWAFMEW	EE	08	TVWARMAX	D6	
TVWABRKT	F0	C0	TVWAFMSC	EC	80	TVWARPL	5C	
TVWACHNL	4A		TVWAFRRR	EF	01	TVWARSHW	CC	
TVWACLSZ	48		TVWAFRWI	4C		TVWARTR	D8	
TVWACPID	30		TVWAFRWO	50		TVWASCSW	EE	01
TVWACRRQ	EA	02	TVWAFSM	ED	40	TVWASDSG	EB	40
TVWADIN1	6C		TVWAFSW	ED	10	TVWATABI	AC	
TVWADIN2	70		TVWAHBUF	40		TVWATABO	B0	
TVWADIN3	74		TVWAILE	E9	04	TVWATAS	E9	20
TVWADIRS	F0	30	TVWAIOTR	EE	40	TVWATCB	3C	
TVWADLST	6C		TVWAISYS	EE	80	TVWATECB	9C	
TVWADOOQ	EC	40	TVWAKEYB	F0	0C	TVWATGET	EF	40
TVWAECB	98		TVWAKEYL	F0	08	TVWATGTF	78	
TVWAECBL	A0		TVWAKEYP	F0	04	TVWATID	E9	10
TVWAECB1	A0		TVWALBUF	44		TVWATIMW	8	
TVWAECB2	A4		TVWALLWA	10		TVWATIR	ED	08
TVWAECB3	A8		TVWALNCT	C6		TVWATIS	E9	40
TVWAEIQ	20		TVWALNSV	C4		TVWATOD	E9	80
TVWAEND	F8		TVWALTE	E9	02	TVWATOMW	C	
TVWAENDS	EA	80	TVWALTS	EE	02	TVWATRAN	EB	02
TVWAEQ	2C		TVWANCNT	DA		TVWATRDF	EB	01
TVWAERMG	EA	08	TVWANFSP	ED	04	TVWATRNM	BC	
TVWAEXL	60		TVWANIB	58		TVWAUSMN	38	
TVWAFLAG	E8		TVWANIM	1C		TVWAUSRA	E0	
TVWAFLGA	F2		TVWANLRQ	EA	04	TVWAVST	64	
TVWAFLGB	F3		TVWANOFB	EC	10	TVWAVSZ	68	
TVWAFLGC	F4		TVWANOM	28		TVWAHLNO	C8	
TVWAFLGD	F5		TVWAOOPS	E9	01	TVWAHLSZ	CA	
TVWAFLGE	F6		TVWAPGN	EA	40	TVWAXSCD	E9	08
TVWAFLGF	F7		TVWAPPL	0				

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TWAR

Common Name : TCAS Work Area
 Macro ID : IKTCASWA
 DSECT Name : TWAR
 Created by : TCAS routine IKTCAS51
 Subpool and Key : Subpool 0 and key 6
 Size : 528 bytes
 Pointed to by : TCASWA field of the TCAST data area
 Serialization : LOCAL lock
 Function : The TWAR provides data storage for TCAS inter-task communication and diagnostic recording for TCAS error analysis.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	536	TWAR	TCAS WORK AREA
0	(0) UNSIGNED	2	TWACOMP	TCAS COMPLETION CODE
2	(2) UNSIGNED	2	TWARSON	TCAS TERMINATION REASON CODE
4	(4) ADDRESS	4	TWASYNQH	SYNCHRONOUS QUEUE HEADER
8	(8) ADDRESS	4	TWAPASQH	PENDING ADDRESS SPACE Q HEADER
12	(C) ADDRESS	4	TWAASCB	ASCB POINTER
16	(10) ADDRESS	4	TWACSCB	CSCB POINTER
20	(14) ADDRESS	4	TWATCAST	TCAST POINTER
24	(18) ADDRESS	4	TWAINIT	TCAS INITIALIZATION RTN POINTER
28	(1C) ADDRESS	4	TWATTSR	TCAS TERMINATION ROUTINE POINTER
32	(20) ADDRESS	4	TWATCSR	TCAS CREATE ROUTINE POINTER
36	(24) ADDRESS	4	TWAPPSR	PARAM PROCESS ROUTINE POINTER
40	(28) ADDRESS	4	TWAEESR	ESTAE EXIT ROUTINE POINTER

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44	(2C) ADDRESS	4	TWADEQAS	ADDRESS OF DEQ ROUTINE
48	(30) ADDRESS	4	TWAMSG	ADDRESS OF MESSAGE BLOCK
52	(34) ADDRESS	4	TWAVTCB	VTAM INT SUBTASK TCB POINTER
56	(38) ADDRESS	4	TWAUTCB	USER INT SUBTASK TCB POINTER
60	(3C) ADDRESS	4	TWACTCB	CON COMM SUBTASK TCB POINTER
64	(40) BITSTRING	4	TWAMECB	MAINLINE ECB
68	(44) BITSTRING	4	TWAVCOMP	VTAM INT COMPLETION CODE
72	(48) BITSTRING	4	TWAUCOMP	USER INT COMPLETION CODE
76	(4C) BITSTRING	4	TWACCOMP	CONSOLE COMM COMPLETION CODE
80	(50) BITSTRING 1... ..	1	TWAMFL TWAMFL1	MAIN TASK FLAG BYTE TCAS TERMINATION ROUTINE

BYPASS INDICATOR

81	.111 1111 (51) BITSTRING 1... .. .1.. .... ..1. .... ...1 1... .... .1.. .... ..11	1	TWAVFL TWAVFL1 TWAVFL2 TWAVFL3 TWAVFL4 TWAVFL5 TWAVFL6	RESERVED VTAM INTERFACE SUBTASK FLAG VTAM INTERFACE SUBTASK ATTACHED VTAM INTERFACE SUBTASK ABEND POST USER INTERFACE SUBTASK ESTAE EXIT COMPLETE OPEN ACB ISSUED START LOGON ISSUED RESERVED
82	(52) BITSTRING 1... .. .1..1.1 1111	1	TWAUFL TWAUFL1 TWAUFL2 TWAUFL3 TWAUFL4	USER INTERFACE SUBTASK FLAG USER INTERFACE SUBTASK ATTACHED USER INTERFACE SUBTASK ABEND POST VTAM INTERFACE SUBTASK ESTAE EXIT COMPLETE RESERVED
83	(53) BITSTRING	1	TWACFL	CONSOLE COMM SUBTASK FLAG

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1... ..			TWACFL1	CONSOLE COMM SUBTASK ATTACHED
.1..			TWACFL2	CONSOLE COMM SUBTASK ABEND
..1.			TWACFL4	ESTAE EXIT COMPLETE
...1 1111				RESERVED

MAIN TASK SEGMENT

84	(54)	CHARACTER	100	TWAM	
84	(54)	CHARACTER	4	TWAMID	'MAIN'
88	(58)	CHARACTER	48	TWAMEWA	ESTAE EXIT WORK AREA
136	(88)	ADDRESS	4	TWAMTWA	TWAR POINTER FOR ESTAE EXIT
140	(8C)	UNSIGNED	4	TWAMABFC	ABEND RECORDING AREA
144	(90)	UNSIGNED	8	TWAMRTFC	RETRY RECORDING AREA
152	(98)	CHARACTER	32	TWAME	FOOTPRINT FOR ERROR

RECOVERY AND ESTAE

152	(98)	CHARACTER	4	TWAMEI	
152	(98)	UNSIGNED	1	TWAMEIFC	FUNCTION CODE
153	(99)	ADDRESS	3	TWAMERA	RETRY ADDRESS
156	(9C)	ADDRESS	4	TWAMERRS	REGS SAVE AREA ADDRESS

VTAM INTERFACE SUBTASK SEGMENT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
184	(B8) CHARACTER	100	TWAV	
184	(B8) CHARACTER	4	TWAVID	'VTAM'
188	(BC) CHARACTER	48	TWAVEWA	ESTAE EXIT WORK AREA
236	(EC) ADDRESS	4	TWAVTWA	TWAR POINTER FOR ESTAE EXIT
240	(F0) UNSIGNED	4	TWAVABFC	ABEND RECORDING AREA
244	(F4) UNSIGNED	8	TWAVRTFC	RETRY RECORDING AREA
252	(FC) CHARACTER	32	TWAVE	FOOTPRINT FOR ERROR

RECOVERY AND ESTAE

252	(FC) CHARACTER	4	TWAVEI	
252	(FC) UNSIGNED	1	TWAVEIFC	FUNCTION CODE
253	(FD) ADDRESS	3	TWAVERA	RETRY ADDRESS
256	(100) ADDRESS	4	TWAVERRS	REGS SAVE AREA ADDRESS
284	(11C) CHARACTER	16	TWAVI	
284	(11C) BITSTRING	4	TWAVECB	VTAM INTERFACE SUBTASK ECB
288	(120) ADDRESS	4	TWAVTEQH	TPEND QUEUE HEADER
292	(124) ADDRESS	4	TWAVTHQH	TERMINAL HANDLING QUEUE HEADER
296	(128) ADDRESS	4	TWAVACQH	ACB CONTROL QUEUE HEADER

USER INTERFACE SUBTASK SEGMENT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
300	(12C) CHARACTER	100	TWAU	
300	(12C) CHARACTER	4	TWAUID	'USER'
304	(130) CHARACTER	48	TWAUEWA	ESTAE EXIT WORK AREA
352	(160) ADDRESS	4	TWAUTWA	TWAR POINTER FOR ESTAE EXIT
356	(164) UNSIGNED	4	TWAUABFC	ABEND RECORDING AREA
360	(168) UNSIGNED	8	TWAURTFC	RETRY RECORDING AREA
368	(170) CHARACTER	32	TWAUE	FOOTPRINT FOR ERROR
RECOVERY AND ESTAE				
368	(170) CHARACTER	4	TWAUEI	
368	(170) UNSIGNED	1	TWAUEIFC	FUNCTION CODE
369	(171) ADDRESS	3	TWAUERA	RETRY ADDRESS
372	(174) ADDRESS	4	TWAUERRS	REGS SAVE AREA ADDRESS
400	(190) CHARACTER	8	TWAUI	
400	(190) BITSTRING	4	TWAUECB	USER INTERFACE SUBTASK ECB
404	(194) ADDRESS	4	TWAUACQH	ADDRESS SPACE CREATE Q HEADER
CONSOLE COMMUNICATION SUBTASK SEGMENT				
408	(198) CHARACTER	100	TWAC	
408	(198) CHARACTER	4	TWACID	'CCOM'

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
412	(19C) CHARACTER	48	TWACEWA	ESTAE EXIT WORK AREA
460	(1CC) ADDRESS	4	TWACTWA	TWAR POINTER FOR ESTAE EXIT
464	(1D0) UNSIGNED	4	TWACABFC	ABEND RECORDING AREA
468	(1D4) UNSIGNED	8	TWACRTFC	RETRY RECORDING AREA
476	(1DC) CHARACTER	32	TWACE	FOOTPRINT FOR ERROR
RECOVERY AND ESTAE				
476	(1DC) CHARACTER	4	TWACEI	
476	(1DC) UNSIGNED	1	TWACEIFC	FUNCTION CODE
477	(1DD) ADDRESS	3	TWACERA	RETRY ADDRESS
480	(1E0) ADDRESS	4	TWACERRS	REGS SAVE AREA ADDRESS
508	(1FC) CHARACTER	16	TWACI	
508	(1FC) BITSTRING	4	TWACECB	CONSOLE COMM SUBTASK ECB
512	(200) ADDRESS	4	TWACSTPQ	STOP COMMAND QUEUE HEADER
516	(204) ADDRESS	4	TWACMODQ	MODIFY COMMAND QUEUE HEADER
520	(208) CHARACTER	1	TWACSKIP	INTER-CSECT SWITCH
521	(209) CHARACTER	3		RESERVED
524	(20C) CHARACTER	12	TWAWORKE	RETURN WORK ELEMENT
536	(218) CHARACTER	0	TWAEND	END OF TWAR

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
TWAASCB	C		TWAMEI	98		TWAUFL3	52	20
TWAC	198		TWAMEIFC	98		TWAUFL4	52	10
TWACABFC	1D0		TWAMERA	99		TWAUI	190	
TWACCOMP	4C		TWAMERRS	9C		TWAUID	12C	
TWACE	1DC		TWAMEWA	58		TWAURTFC	168	
TWACECB	1FC		TWAMFL	50		TWAUTCB	38	
TWACEI	1DC		TWAMFL1	50	80	TWAUTWA	160	
TWACEIFC	1DC		TWAMID	54		TWAV	B8	
TWACERA	1DD		TWAMRTFC	90		TWAVABFC	F0	
TWACERRS	1E0		TWAMSG	30		TWAVACQH	128	
TWACEWA	19C		TWAMTWA	88		TWAVCOMP	44	
TWACFL	53		TWAPASQH	8		TWAVE	FC	
TWACFL1	53	80	TWAPPSR	24		TWAVECB	11C	
TWACFL2	53	40	TWAR	0		TWAVEI	FC	
TWACFL4	53	20	TWARSON	2		TWAVEIFC	FC	
TWACI	1FC		TWASYNQH	4		TWAVERA	FD	
TWACID	198		TWATCAST	14		TWAVERRS	100	
TWACMODQ	204		TWATCSR	20		TWAVEWA	BC	
TWACOMP	0		TWATTSR	1C		TWAVFL	51	
TWACRTFC	1D4		TWAU	12C		TWAVFL1	51	80
TWACSCB	10		TWAUABFC	164		TWAVFL2	51	40
TWACSKIP	208		TWAUACQH	194		TWAVFL3	51	20
TWACSTPQ	200		TWAUCOMP	48		TWAVFL4	51	10
TWACTCB	3C		TWAUE	170		TWAVFL5	51	08
TWACTWA	1CC		TWAUECB	190		TWAVFL6	51	04
TWADEQAS	2C		TWAUEI	170		TWAVI	11C	
TWAEESR	28		TWAUEIFC	170		TWAVID	B8	
TWAEND	218		TWAUERA	171		TWAVRTFC	F4	
TWAINIT	18		TWAUERRS	174		TWAVTCB	34	
TWAM	54		TWAUEWA	130		TWAVTEQH	120	
TWAMABFC	8C		TWAUFL	52		TWAVTHQH	124	
TWAME	98		TWAUFL1	52	80	TWAVTWA	EC	
TWAMECB	40		TWAUFL2	52	40	TWAWORKE	20C	

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UCB

Common Name : IOS Unit Control Block

Macro ID : IEFUCBOB

DSECT Name : UCB (DSECT card precedes prefix). UCBCMSEG may be used in the USING statement for the common section.

UCBCMEXT (DSECT for common UCB extension),

UCBMT (DSECT for magnetic tape extension),

UCBOCR (DSECT for optical character reader extension),

UCB3540X (DSECT for 3540 device extension),

UCBUCS (DSECT for unit record with UCS extension),

UCB3800X (DSECT for 3800 device extension)

Created by : SYSGEN

Subpool and Key : NUCLEUS resident and key 0

Size : Variable

Pointed to by : DEBUCBAD field of the DEB data area
DDRFMUCB field of the DDRCOM data area
DDRTOUCB field of the DDRCOM data area
EWAUCB field of the EWA data area
IOSUCB field of the IOSB data area
JESUNITS field of the JESCT data area
PCCACHUB field of the PCCA data area
(channel-detected error UCB)
RQEUCB field of the RQE data area
SSDRSFRU field of the SSSDR data area
SSDRSTOU field of the SSSDR data area
TCCWUCB field of the TCCW data area
TCTUCBP field of the TCT data area
TIOEFSRT field of the TIOT data area

Serialization : UCB lock, compare & swap logic, ENQ on major SYSIEFSD minor Q4.

Function : The UCB describes the characteristics of a device to the I/O supervisor and is used by the job scheduler during allocation of the device. There is a UCB for each device attached to the system. For device code definitions, see the UCBTYP data area description.

OFFSETS TYPE LENGTH NAME DESCRIPTION

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	UCB UCBBGN	, UCBPTR-512 "x"-
-512 (-200)	SIGNED	4	(126) UCBPXST	RESERVED "x"- START OF USED FIELDS IN PREFIX
-8	(-8) SIGNED	4	UCBLOCK	DEVICE LOCK
-4	(-4) ADDRESS 1...	4	UCBIOQ UCBCURPX UCBPRFX	ADDRESS OF LAST QUEUING ELEMENT USED FOR THIS DEVICE. ADDRESS OF ERP WORK AREA DURING INTERCEPT AND ASYNCHRONOUS ATTENTION/DEVICE END WITH UNIT CHECK CONDITIONS. WHEN DIRECT ACCESS VOLUME VERIFICATION (DAVV) IS WAITING FOR A VOLUME MOUNT, THIS FIELD WILL POINT TO THE DAVV SRB. "x"-UCBPXST"- ACTUAL PREFIX DATA LENGTH "x"-UCB"- TOTAL PREFIX LENGTH FOR PREFIX ADDRESSABILITY

SYSGEN-INDEPENDENT
COMMON SECTION

0	(0) SIGNED	4	UCBOB UCBCMSEG	"x"- START OF COMMON SECTION
0	(0) BITSTRING 1...1..1.1	1	UCBJBNR UCBVRDEV UCBJES3 UCBDUC UCBBOX UCBOLDSM	FLAG BYTE (OS/V52) "X'80'"- UCB FOR VIO DEVICE "X'40'"- ALL VOLUME MOUNTING AND DEVICE MANAGEMENT FOR THIS DEVICE IS CONTROLLED BY JES3 "X'20'"- DISPLAY DEVICE UNIT CHECK IPL "X'10'"- IF THIS BIT AND UCBIORST BIT ARE ON, THE DEVICE HA BEEN FORCED OFF-LINE DUE TO A ERROR "X'08'"- OLTEP COMMUNICATING DIRECTLY WITH THE MASS STORAGE CONTROL (MSC), NOT THROUGH THE MASS STORAGE SYSTEM COMMU-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				NICATOR (MSSC)
1..	UCBMMSGP	"X'04'"- MOUNT MESSAGE PENDING. THE DEVICE HAS BEEN SELECTED BY DEVICE ALLO- CATION, BUT NO MOUNT MESSAGE HAS BEEN ISSUED.
	....	..1.	UCBURINP	"X'02'"- UNCONDITIONAL RESERVE IN PRO- GRESS
	....	...1	UCBMONT	"X'01'"- VOLUME TO BE MOUNTED IS TO BE RETAINED OR CONTAIN A PASSED DATA SET (SET BY DEVICE ALLOCATION OR DATA MAN- AGEMENT FOR OS/VS2)
1	(1) BITSTRING		1 UCBFL5	FLAGS
	1... ..		UCBDCC	"X'80'"- DISCONNECT COMMAND CHAIN DEVICE
	.1.. ..		UCBAF	"X'40'"- ATTENTION FOR THIS CONSOLE DEVICE IS TO BE PROCESSED BY THE COMMU- NICATIONS TASK
	.1.. ..		UCBAMV	"X'40'"- SUCCESSFUL COMPARISON CHECKING OF THE ACCESS METHOD CATALOG AND THE VTOC (VSAM DIRECT ACCESS DEVICES ONLY)
	..1.		UCBSASK	"X'20'"- DEVICE REQUIRES STAND ALONE SEEK
	...1		UCBVSDR	"X'10'"- DEVICE HAS VARIABLE LENGTH SDR'S
	.... 1...		UCBENVRD	"X'08'"- DEVICE RETURNS ENVIRONMENTAL DATA
	.... .1..		UCBNALOC	"X'04'"- THIS OFFLINE DEVICE IS BEING USED BY A SYSTEM COMPONENT. THE DEVICE STATUS MUST NOT CHANGE TO ONLINE NOR WILL IT BE ALLOCATED. THE LAST PATH/CHANNEL/CPU TO THE DEVICE MUST NOT BE VARY'ED OFFLINE. THE DEVICE IS UNA- VAILABLE FOR USAGE BY ANOTHER SYSTEM COMPONENT WHICH PROCESSES OFFLINE DEVICES. TO SET THIS INDICATOR ON, A COMPONENT MUST OBTAIN VIA ENQ, EXCLU- SIVE, SYSTEM LEVEL CONTROL OF RESOURCE SYSIEFSD, Q4. SERIALIZATION IS NOT REQUIRED TO TURN THIS INDICATOR OFF.
1.		UCBALTCU	"X'02'"- DEVICE HAS AN ALTERNATE CONTROL UNIT ADDRESS
1		UCBALTPH	"X'01'"- DEVICE HAS AN ALTERNATE PATH

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
2	(2) CHARACTER	1	UCBID	UCB IDENTIFICATION (FF)
	1111 1111		UCBSTND	"X'FF'"- STANDARD UCB
3	(3) BITSTRING	1	UCBSTAT	DEVICE STATUS
	1...		UCBONLI	"X'80'"- DEVICE IS ONLINE
	.1...		UCBCHGS	"X'40'"- DEVICE STATUS IS TO BE CHANGED FROM ONLINE TO OFFLINE, AND EITHER ALLOCATION IS ENQUEUED ON DEVICES OR THE DEVICE IS ALLOCATED. (BIT 0 IS ALSO ON.)
	..1.		UCBRESV	"X'20'"- THE MOUNT STATUS OF THE VOLUME ON THIS DEVICE IS RESERVED
	...1		UCBUNLD	"X'10'"- UNLOAD OPERATOR COMMAND HAS BEEN ADDRESSED TO THIS DEVICE. THE DEVICE IS NOT YET UNLOADED.
	.... 1...		UCBALOC	"X'08'"- DEVICE IS ALLOCATED
	.... .1..		UCBPRES	"X'04'"- THE MOUNT STATUS OF THE VOLUME ON THIS DEVICE IS PERMANENTLY RESIDENT
	.... ..1.		UCBSYSR	"X'02'"- SYSTEM RESIDENCE DEVICE OR PRIMARY CONSOLE OR ACTIVE CONSOLE
	.... ...1		UCBDADI	"X'01'"- STANDARD TAPE LABELS HAVE BEEN VERIFIED FOR THIS TAPE VOLUME OR SECONDARY CONSOLE OR CONSOLE STATUS CHANGING
4	(4) SIGNED	2	UCBCHAN	BINARY CHANNEL/UNIT ADDRESS
4	(4) SIGNED	1	UCBCHA	BINARY CHANNEL ADDRESS OF LAST STARTED I/O OPERATION
5	(5) SIGNED	1	UCBUA	BINARY UNIT ADDRESS
6	(6) BITSTRING	2	UCBSFLS	DEVICE STATUS FLAGS
6	(6) BITSTRING	1	UCBFLA	I/O SUPERVISOR FLAG BYTE A
			UCBFL1	"UCBFLA"- ALIAS
	1...		UCBBSY	"X'80'"- DEVICE IS BUSY
	1...		UCBBUSYD	"UCBBSY"- ALIAS
	.1..		UCBNRY	"X'40'"- DEVICE NOT READY
	.1..		UCBNOTRD	"UCBNRY"- ALIAS
	..1.		UCBPST	"X'20'"- POST FLAG (ASSOC IOQE)
	..1.		UCBUSING	"UCBPST"- ALIAS
	...1		UCBPSNS	"X'10'"- PENDING SENSE OPERATION
 1...		UCBCUB	"X'08'"- CONTROL UNIT BUSY
 1...		UCBNOTRC	"UCBCUB"- ALIAS
1..		UCBSAP	"X'04'"- STAND ALONE PROCESS ON DEVICE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.		UCBACTV	ACTIVE (EG., RESERVE) "X'02'"- CHANNEL PROGRAM ACTIVE ON DEVICE
7	(7) BITSTRING	1	UCBQISCE	"X'01'"- DEVICE QUIESCED
	1...		UCBFLB	I/O SUPERVISOR FLAG BYTE B
			UCBIORST	"X'80'"- I/O RESTART VIA ALTERNATE CPU RECOVERY HAS FACTORED DEVICE OUT OF CONFIGURATION BECAUSE OF NON-ACCESSABILITY. ALL INCOMING I/O REQUESTS ARE INTERCEPTED AND MARKED IN PERMANENT ERROR WITH A COMPLETION CODE OF X'51'. HOWEVER, IF CHANNEL RECONFIGURATION HARDWARE (CRH) IS ACTIVE AND CRH WILL BE USED TO ACCESS THE DEVICE ASSOCIATED WITH THE UCB, THIS BIT WILL BE ON IN EVERY UCB THAT HAS OUTSTANDING I/O ACROSS A CRH PATH.
	.1..		UCBASNS	"X'40'"- SENSE ACTIVE ON DEVICE
	..1.		UCBSPST	"X'20'"- SENSE POST INDICATOR
	...1		UCBRESVH	"X'10'"- DEVICE RESERVED INDICATOR
	.... 1...		UCBCRHRV	"X'08'"- RESERVED PATH THROUGH A CHANNEL RECONFIGURATION HARDWARE (CRH) CONNECTION
	.... .1..		UCBCRHSN	"X'04'"- IF 1, SENSE PENDING FROM INOPERATIVE CPU. IF 0, SENSE PENDING FROM OPERATIVE CPU. BIT IS SET ONLY WHEN CHANNEL RECONFIGURATION HARDWARE (CRH) IS ACTIVE.
	.... .1.		UCBVALPH	"X'02'"- PATH VALIDATION
	.... ....		UCBDPTH	"X'01'"- IF 1, DYNAMIC PATHING/AVAILABILITY FEATURE IS OPERATIONAL FOR THIS DEVICE
8	(8) BITSTRING	1	UCBCHM	PATH STATUS MASK FOR THIS DEVICE
8	(8) BITSTRING	1	UCBCHM1	SAME AS UCBCHM
	11..		UCBPTH0	"X'C0'"- PATHS FROM CPU 0
	1...		UCBPPA	"X'80'"- PRIMARY PATH CPU 0. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
	.1..		UCBSPA	"X'40'"- SECONDARY PATH CPU 0. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNA-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				AVAILABLE.
	..11		UCBPTH1	"X'30'"- PATHS FROM CPU 1
	..1.		UCBPPB	"X'20'"- PRIMARY PATH CPU 1. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
	...1		UCBSPB	"X'10'"- SECONDARY PATH CPU 1. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
	.... 1...		UCBRV014	"X'08',,C'X'"- RESERVED
	.... .1..		UCBRV015	"X'04',,C'X'"- RESERVED
	.... .1.		UCBRV016	"X'02',,C'X'"- RESERVED
	.... ...1		UCBRV017	"X'01',,C'X'"- RESERVED
9	(9) SIGNED	1	UCBCNT	COUNT OF QUEUED REQUESTS WAITING FOR DEVICE
10	(A) SIGNED	1	UCBLCI	INCREMENT WHICH, WHEN MULTIPLIED BY 32, BECOMES AN INDEX TO THE LOGICAL CHANNEL TABLE (LCHTAB)
11	(B) HEX	1	UCBCPU	LAST SIO TO DEVICE ISSUED FROM THIS CPUID
12	(C) BITSTRING	1	UCBWGT	FLAGS
	1...		UCBIN	"X'80'"- SYSIN
	.1..		UCBOUT	"X'40'"- SYSOUT
	..1.		UCBPUB	"X'20'"- ASSUMED THAT THIS DEVICE WILL BE ALLOCATED FOR A PUBLIC VOLUME REQUEST
	...1		UCBREW	"X'10'"- REWIND COMMAND HAS BEEN ADDRESSED TO THIS MAGNETIC DEVICE BY I/O SUPPORT
	.... 1...		UCBMTPXP	"X'08'"- MULTIPLE EXPOSURE DEVICE
	.... .1..		UCBVORSN	"X'04'"- VARY COMMAND OPERATOR REASON INDICATOR
	.... .1.		UCBVHRSN	"X'02'"- VARY COMMAND HIERARCHY REASON INDICATOR
	.... ...1		UCBRV029	"X'01',,C'X'"- RESERVED
13	(D) CHARACTER	3	UCBNAME	UNIT NAME (EBCDIC)
16	(10) CHARACTER	4	UCBTYP	DEVICE TYPE
16	(10) BITSTRING	1	UCBTBYT1	MODEL BITS
	1...		UCB1FEA0	"X'80'"- BIT 0
	.1..		UCB1FEA1	"X'40'"- BIT 1
	..1.		UCB1FEA2	"X'20'"- BIT 2

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1		UCB1FEA3	"X'10'"- BIT 3
 1...		UCB1FEA4	"X'08'"- BIT 4
	.... .1..		UCB1FEA5	"X'04'"- BIT 5
	.... .1..		UCBD1600	"X'04'"- 1600 BPI
	.... ..1.		UCB1FEA6	"X'02'"- BIT 6
	.... ..1.		UCBD6250	"X'02'"- 6250 BPI
	.... ...1		UCB1FEA7	"X'01'"- BIT 7
17	(11) BITSTRING	1	UCBTBYT2	OPTION FLAGS
	1...		UCB2OPT0	"X'80'"- FLAG 0
	.1..		UCB2OPT1	"X'40'"- FLAG 1
	..1.		UCB2OPT2	"X'20'"- FLAG 2
	..1.		UCBDUDN1	"X'20'"- DUAL DENSITY 800/1600 BPI
	..1.		UCBRR	"X'20'"- THIS DEVICE IS SHARABLE BETWEEN TWO CPU'S (DIRECT ACCESS)
	....1		UCB2OPT3	"X'10'"- FLAG 3
	....1		UCBDUDN2	"X'10'"- DUAL DENSITY 1600/6250 BPI
	....1		UCBRPS	"X'10'"- ROTATIONAL POSITION SENSING (RPS) DEVICE (DIRECT ACCESS)
	.... 1...		UCB2OPT4	"X'08'"- FLAG 4
	.... 1...		UCBRWTAU	"X'08'"- READ/WRITE TAPE CONTROL
	.... 1...		UCBRVDEV	"X'08'"- IF 0, REAL DEVICE. IF 1, VIRTUAL DEVICE. (DIRECT ACCESS)
	.... .1..		UCB2OPT5	"X'04'"- FLAG 5
	.... ..1.		UCB2OPT6	"X'02'"- FLAG 6
	.... ..1.		UCBVLPWR	"X'02'"- VOLUME REQUIRES ALTERNATE POWER SOURCE DEVICE
	.... ...1		UCB2OPT7	"X'01'"- FLAG 7
	.... ...1		UCBDVPWR	"X'01'"- DEVICE HAS ALTERNATE POWER SOURCE
18	(12) BITSTRING	1	UCBDVCLS	SAME AS UCBTBYT3
18	(12) BITSTRING	1	UCBTBYT3	CLASS BITS
	1...		UCB3TAPE	"X'80'"- TAPE
	.1..		UCB3COMM	"X'40'"- COMMUNICATIONS
	.1.. ...1		UCB3CTC	"X'41'"- CHANNEL-TO-CHANNEL ADAPTER
	..1.		UCB3DACC	"X'20'"- DIRECT ACCESS
	....1		UCB3DISP	"X'10'"- DISPLAY
	.... 1...		UCB3UREC	"X'08'"- UNIT RECORD
	.... .1..		UCB3CHAR	"X'04'"- CHARACTER READER
1.		UCBRSV10	"X'02'",,C'X'"- RESERVED
1		UCBRSV11	"X'01'",,C'X'"- RESERVED
19	(13) CHARACTER	1	UCBUNTYP	SAME AS UCBTBYT4

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
19	(13) CHARACTER	1	UCBTBYT4	DEVICE CODE
	1111 ...1		UCB3791L	"X'F1'"- 3791 LOCAL CONTROL UNIT
	1...		UCB3480	"X'80'"- DEVICE SUPPORT
	.1.. 11..		UCB3838	"X'4C'"- 3838 ARRAY PROCESSOR
	.1.. ...1		UCBDSM	"X'42'"- MASS STORAGE CONTROL (MSC) (3851)
	..11 11.1		UCB7443	"X'3D'"- 7443 SERVICE RECORD FILE
	...1 1..1		UCB3895	"X'19'"- 3895 DEVICE
	...1 ...1		UCB42AD1	"X'11'"- 2702 CONTROL UNIT WITH TYPE 1 ADAPTOR
	...1 ...1		UCB3263	"X'11'"- 3263 DEVICE
	...1 ..11		UCB4248	"X'13'"- DEVICE SUPPORT
	.... 111.		UCB3800	"X'0E'"- 3800 DEVICE
	.... 11.1		UCB3036	"X'0D'"- 3036 DISPLAY CONSOLE
	.... 1..1		UCB3211	"X'09'"- 3211 PRINTER
	.... ..11		UCB3400	"X'03'"- 3400 MAGNETIC TAPE
	.... ...1		UCB2400	"X'01'"- 2400 SERIES MAGNETIC TAPE DEVICE
20	(14) ADDRESS	4	UCBEXTPT	ADDRESS OF COMMON UCB EXTENSION
20	(14) BITSTRING	1	UCBFLC	I/O SUPERVISOR FLAG BYTE C
	1...		UCBATTPT	"X'80'"- ATTENTION PENDING
	.1..		UCBWAA	"X'40'"- WORK AREA APPENDED
	..1.		UCBUDE	"X'20'"- UNSOLICITED DEVICE END RECEIVED
	...1		UCBITF	"X'10'"- INTERCEPT CONDITION
	.... 1...		UCBIVRS	"X'08'"- INTERVENTION REQUIRED MESSAGE ISSUED
	.... .1..		UCBIVRR	"X'04'"- INTERVENTION REQUIRED MESSAGE IS NEEDED
	.... ..1.		UCBTICBT	"X'02'"- CHANNEL END AND/OR DEVICE END OR MOUNT CONDITION PENDING.
	.... ...1		UCBDDRSW	"X'01'"- DDR SWITCH PENDING ON THIS DEVICE
21	(15) ADDRESS	3	UCBEXTPT	ADDRESS OF COMMON UCB EXTENSION
	.... ...1		SRTEJBNR	"UCBJBNR"- ALIAS
	.... ...1		SRTEMNT	"UCBMONT"- ALIAS
	.... ...1		SRTESTAT	"UCBSTAT"- ALIAS
	1...		SRTEONLI	"UCBONLI"- ALIAS
	.1..		SRTECHGS	"UCBCHGS"- ALIAS
	..1.		SRTERESV	"UCBRESV"- ALIAS

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....1			SRTEUNLD	"UCBUNLD"- ALIAS
.... 1...			SRTEALOC	"UCBALOC"- ALIAS
.... .1..			SRTEPRES	"UCBPRES"- ALIAS
.... ..1.			SRTESYSR	"UCBSYSR"- ALIAS
.... ...1			SRTEDADI	"UCBDADI"- ALIAS
			UCBFL2	"UCBFL1"- ALIAS (UCBCHA WAS ONCE UCBFL1)

DEVICE-DEPENDENT UCB SEGMENTS

UCBDEV "x"

DIRECT ACCESS DEVICE SEGMENT

UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS
 IN DIRECT ACCESS SEGMENT

24	(18) CHARACTER	4	UCBVTOC	RELATIVE ADDRESS OF VTOC FOR THIS VOLUME, IN FORM TTR0
28	(1C) CHARACTER	6	UCBVOLI	VOLUME SERIAL NUMBER
34	(22) BITSTRING	1	UCBSTAB	VOLUME STATUS
	1...		UCBBSVL	"X'80'"- VOLUME DEMOUNTABLE BY DATA MANAGEMENT (DIRECT ACCESS) (OS/V52)
	1...		UCBDVSHR	"X'80'"- DEVICE NOT SHARABLE AMONG SEVERAL CPU'S (3420 MAGNETIC TAPE DEVICES ONLY)
	.1...		UCBPGFL	"X'40'"- UCB IS OPEN AND IS BEING USED AS A PAGE FILE
	..1.		UCBPRSRS	"X'20'"- DURING VOLUME ATTRIBUTE PROCESSING THIS BIT IS USED BOTH TO DENOTE UCB'S THAT WERE MARKED PERMANENTLY RESI-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1.			UCBBALB	DENT PRIOR TO GETTING CONTROL AND TO IDENTIFY DEVICES THAT WERE SELECTED BY THE OPERATOR FOR MOUNTING VOLUMES (DI- "X'20'"- ADDITIONAL VOLUME LABEL PROC- ESSING (TAPE)
...1			UCBBPRV	"X'10'"- PRIVATE VOLUME USE STATUS
.... 1...			UCBBPUB	"X'08'"- PUBLIC VOLUME USE STATUS
.... .1..			UCBBSTR	"X'04'"- STORAGE VOLUME USE STATUS (DI- RECT ACCESS) THE VOLUME MOUNTED HAS AN AMERICAN NATIONAL STANDARD LABEL (TAPE)
.... ..1.			UCBSHAR	"X'02'"- VOLUME SHAREABLE AMONG JOB STEPS (OS/VS2)
....1			UCBBNUL	"X'01'"- CONTROL VOLUME A CATALOG DATA SET IS ON THIS VOLUME (DIRECT ACCESS) IF THE MULTIPLE CONSOLE SUPPORT OPTION IS IN THE SYSTEM, DEMOUNT OR MOUNT MESSAGES HAVE BEEN ISSUED AND THE MESSAGE ID'S ARE AT OFFSETS 40 THROUGH 45. OPEN WILL DELETE THE MESSAGES AND TURN THIS BIT OFF. (TAPE)
35	(23) HEX	1	UCBDMCT	VOLUME USE BYTE
	1...		UCBMOUNT	"X'80'"- IF 0, A MOUNT VERIFICATION HAS BEEN PERFORMED. IF 1, A MOUNT REQUEST HAS BEEN ISSUED. (DIRECT ACCESS) FOR TAPE, THE FOLLOWING MEANINGS APPLY. NOR- MAL SCHEDULER PROCESSING IF 0, NO VOLUME HAS BEEN MOUNTED. IF 1, A VOLUME HAS BEEN MOUNTED BUT NO VOLUME LABEL PROC- ESSING HAS BEEN PERFORMED. SL OPEN ROU- TINE IF 0, STANDARD VOLUME LABEL AND CORRECT SERIAL NUMBER HAVE BEEN VERI- FIED. IF 1, VOLUME LABEL IS NOT STANDARD FORMAT OR SERIAL NUMBER IS NOT CORRECT. (A MOUNT MESSAGE HAS BEEN ISSUED.) NSL OPEN ROUTINE IF 0, NON-STANDARD VOLUME LABEL HAS BEEN VERIFIED. IF 1, VOLUME LABEL IS NOT STANDARD FORMAT. (CONTROL PASSES TO THE PROCESSING PROGRAM'S NON-STANDARD LABEL PROCESSING ROUTINE.) VOLUME LABEL IS STANDARD FORMAT. (CON- TROL REMAINS WITH THE OPEN ROUTINE. A

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.111 1111		UCBDMC	MOUNT MESSAGE HAS BEEN ISSUED.) BLP OPEN ROUTINE IF 0, VOLUME LABEL HAS NOT BEEN
			UCBDATP	"X'7F'"- NUMBER OF DCB'S OPEN FOR THIS VOLUME "X'"- END OF COMMON DIRECT ACCESS/TAPE AREA
36	(24) SIGNED	1	UCBSQC	NUMBER OF RESERVE MACRO INSTRUCTIONS ISSUED
37	(25) BITSTRING	1	UCBFL4	DIRECT ACCESS FLAG BYTE
	1... ..		UCBDAVV	"X'80'"- DIRECT ACCESS VOLUME VERIFICATION IN CONTROL (DAVV)
	.1... ..		UCBWDVV	"X'40'"- DAVV WAITING FOR MOUNT
	..1.		UCBRESVP	"X'20'"- RESERVE CHANNEL PROGRAM PENDING
	...1.....		UCBDSS	"X'10'"- READ HOME ADDRESS AND READ RECORD ZERO OPERATIONS HAVE BEEN PERFORMED BY DYNAMIC SUPPORT SYSTEM (DSS)
	.... 1...		UCBATTN	"X'08'"- 3330V ATTENTION RECEIVED
	.... .1..		UCBHOLD	"X'04'"- 3330V CYLINDER FAULT PENDING
	.... ..1.		UCBMAT	"X'02'"- 3330V ATTENTION OVERDUE
	.... ...1		UCBRRP	"X'01'"- RESERVE/RELEASE PENDING
38	(26) SIGNED	1	UCBUSER	NUMBER OF CURRENT USERS
39	(27) SIGNED	1	UCBSATI	ATTENTION TABLE INDEX SAVED BY THE SCHEDULER.
40	(28) ADDRESS	4	UCBBASE	ADDRESS OF BASE EXPOSURE UCB
44	(2C) ADDRESS	4	UCBNEXP	BASE ADDRESS OF LAST STARTED EXPOSURE NON-BASE ADDRESS OF NEXT EXPOSURE IN THE RING THIS ADDRESS POINTS TO THE MULTI-PROCESSING PREFIX

MAGNETIC TAPE SEGMENT

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OFFSETS TYPE LENGTH NAME DESCRIPTION

UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS
 IN DIRECT ACCESS SEGMENT

24	(18) SIGNED	2	UCBFSCT	DATA SET SEQUENCE COUNT
26	(1A) SIGNED	2	UCBFSEQ	DATA SET SEQUENCE NUMBER
28	(1C) CHARACTER	8		UCBVOLI, UCBSTAB AND UCBDMCT AS IN DIRECT ACCESS SEGMENT
36	(24) CHARACTER	6	UCBFSER	BEFORE OPEN, MESSAGE ID'S. SEE UCBSTAB BIT 7. AFTER OPEN, DATA SET SERIAL NUMBER
42	(2A) HEX	1	UCBRES1B	RESERVED
43	(2B) BITSTRING	1	UCBTFL1	FLAG BYTE (TAPE DEVICES ONLY)
	1... ..		UCBNLTP	"X'80'"- TAPE VOLUME DOES NOT CONTAIN LABELS
	.1.. ..		UCBNSLTP	"X'40'"- TAPE CONTAINS NON-STANDARD LABELS
	..1.		UCBDQDSP	"X'20'"- DEQUEUE TAPE VOLUME WHEN DEMOUNTED
	...1 1...		UCBTFL1S	"X'18'" UCBTFL1 BITS SWAPPED BY DDR
	...1		UCB3430	"X'10'" TAPE IS 3430
	.... 1...		UCBRV006	"X'08'",,C'X'"- RESERVED SWAPPED BY DDR
	.... .1..		UCBRV007	"X'04'",,C'X'"- RESERVED
	.... ..1.		UCBRV008	"X'02'",,C'X'"- RESERVED
	.... ...1		UCBRV009	"X'01'",,C'X'"- RESERVED
44	(2C) ADDRESS	4	UCBXTN	ADDRESS OF THE MAGNETIC TAPE UCB EXTENSION
44	(2C) BITSTRING	1	UCBVOPT	VOLUME STATISTICS OPTION BITS
	1... ..		UCBESV	"X'80'"- ERROR STATISTICS BY VOLUME (ESV) RECORDS KEPT
	.1.. ..		UCBEVA	"X'40'"- ERROR VOLUME ANALYSIS (EVA) RECORDS KEPT
	..1.		UCBESVC	"X'20'"- IF 0, ESV RECORDS SENT TO SYS1.MAN (X OR Y) DATA SET. IF 1, ESV

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		UCBERPC	RECORDS SENT TO CONSOLE. "X'10'"- AN ERROR RECOVERY PROCEDURE HAS CONTROL
	.... 1...		UCBESVE	"X'08'"- AN ESV RECORD HAS BEEN ISSUED FOR THIS VOLUME BECAUSE OF AN EOVS CONDITION
	.... .1..		UCBRV20	"X'04'",,C'X'"- RESERVED
	.... .1.		UCBRV21	"X'02'",,C'X'"- RESERVED
	.... ...1		UCBRV22	"X'01'",,C'X'"- RESERVED
45	(2D) ADDRESS	3	UCBXTNB	ADDRESS OF THE MAGNETIC TAPE UCB EXTENSION
			SRTEVOLI	"UCBVOLI"- ALIAS
			SRTESTAB	"UCBSTAB"- ALIAS
1...	....		SRTEBSVL	"UCBBSVL"- ALIAS
..1.	....		SRTEBALB	"UCBBALB"- ALIAS
...1	....		SRTEBPRV	"UCBBPRV"- ALIAS
....	1...		SRTEBPUB	"UCBBPUB"- ALIAS
....	.1..		SRTEBSTR	"UCBBSTR"- ALIAS
....	.1..		SRTEASCI	"UCBBSTR"- ALIAS
....	.1..		UCBASCI	"SRTEASCI"- ALIAS
....	.1..		SRTEBVQS	"SRTEBSTR"- ALIAS
....	...1		SRTEBNUL	"UCBBNUL"- ALIAS
			SRTEDMCT	"UCBDMCT"- ALIAS
			SRTEFSCT	"UCBFSCCT"- ALIAS
			SRTEFSEQ	"UCBFSEQ"- ALIAS
			SRTEUSER	"UCBUSER"- ALIAS

UNIT RECORD WITH
 UNIVERSAL CHARACTER SET (1403, 3211)
 OR OPTICAL CHARACTER READER (3886)
 OR 3540 DEVICE
 OR 3800 DEVICE
 UCB SEGMENT

24	(18) ADDRESS	4	UCBXTADR	ADDRESS OF UCS UCB EXTENSION (1403 OR 3211) OR ADDRESS OF OPTICAL CHARACTER READER UCB EXTENSION (3886) OR ADDRESS OF 3540 DEVICE UCB EXTENSION (3540) OR
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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1..		UCBRV66	"X'04',,C'X'"- RESERVED
1.		UCBRV67	"X'02',,C'X'"- RESERVED
	.... ...1		UCBRV68	"X'01',,C'X'"- RESERVED
25	(19) BITSTRING	1	UCBAOF2	SECOND BYTE OF UCBAOF
	1...		UCBRV69	"X'80',,C'X'"- RESERVED
	.1..		UCBRV70	"X'40',,C'X'"- RESERVED
	..1.		UCBRV71	"X'20',,C'X'"- RESERVED
	...1		UCBRV72	"X'10',,C'X'"- RESERVED
	.... 1...		UCBRV73	"X'08',,C'X'"- RESERVED
	.... .1..		UCBRV74	"X'04',,C'X'"- RESERVED
	.... ..1.		UCBRV75	"X'02',,C'X'"- RESERVED
	.... ...1		UCBRV76	"X'01',,C'X'"- RESERVED
26	(1A) SIGNED	1	UCBATNCT	ATTENTION COUNT. THE NUMBER OF ATTEN- TIONS NOT SERVICED IN THE LINE GROUP. PRESENT ONLY IF THE DEVICE INDEX FIELD IS 1. OTHERWISE, THIS FIELD IS RESERVED.
27	(1B) BITSTRING	1		UCBGCB CONTROL BYTE. USED FOR ATTENTION HANDLING FLAGS
	1...		UCBOLTEP	"X'80'"- OLTEP IN CONTROL OF THE DEVICE
	.1..		UCBRV77	"X'40',,C'X'"- RESERVED
	..1.		UCBRV78	"X'20',,C'X'"- RESERVED
	...1		UCBRV79	"X'10',,C'X'"- RESERVED
	.... 1...		UCBRTIAC	"X'08'"- READ TI ACTIVE
	.... .1..		UCBRIPND	"X'04'"- READ INITIAL PENDING
	.... ..1.		UCBSKPGF	"X'02'"- SKIP FLAG
	.... ...1		UCBATRCD	"X'01'"- ATTENTION RECEIVED FROM THE DEVICE
28	(1C) ADDRESS	4	UCBIRB	ADDRESS OF THE IRB USED FOR SCHEDULING THE SECOND LEVEL ATTENTION ROUTINE
28	(1C) BITSTRING	1	UCBGRAF	GRAPHICS STATUS FLAGS (BTAM)
	1...		UCBOIP	"X'80'"- OPEN IS IN PROGRESS
	.1..		UCBDRO	"X'40'"- DEVICE READY IN OPEN
	..1.		UCBDRNO	"X'20'"- DEVICE READY NOT IN OPEN
	...1		UCBBTAM	"X'10'"- USE BTAM IGG019UP
	.... 1...		UCBUPM	"X'08'"- USE PROVIDED MODULE
1..		UCBRPND	"X'04'"- READY PROCESSING NOT DONE
1.		UCBDWNR	"X'02'"- DEVICE WENT NOT READY

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
291 (1D) ADDRESS	3	UCBRV039 UCBIRBA	"X'01'"- RESERVED BTAM ADDRESS OF THE IRB USED FOR SCHEDULING THE SECOND LEVEL ATTENTION ROUTINE
32	(20) ADDRESS	4	UCBLDNCA	ADDRESS OF 3270 WORK AREA ESTABLISHED BY VTAM
32	(20) ADDRESS	4	UCBRDYQ	ASYNCHRONOUS READY NOTIFICATION IRB ADDRESS (BTAM)
32	(20) SIGNED	1	UCBINRLN	SAME AS UCBIRLN
32	(20) SIGNED	1	UCBIRLN	INITIALIZED RLN. THE RELATIVE LINE NUM- BER (RLN) OF THE IOB INITIALIZED FOR A READ INITIAL. IF 0, NO READ INITIAL IS OUTSTANDING. PRESENT ONLY IF THE DEVICE INDEX FIELD IS 1. OTHERWISE, THIS FIELD IS RESERVED.
33	(21) ADDRESS	3	UCBLDNCB	ADDRESS OF 3270 WORK AREA ESTABLISHED BY VTAM
33	(21) ADDRESS	3	UCBRDYQA	ASYNCHRONOUS READY NOTIFICATION IRB ADDRESS (BTAM)
36	(24) ADDRESS	4	UCBCTLNK	SAME AS UCBCTLNA BELOW
36	(24) SIGNED	1	UCBRLN	DEVICE INDEX. INDEX TO THE DEB UCB ADDRESS FIELD FOR THIS DEVICE. THIS VAL- UE IS ALSO THE RELATIVE LINE NUMBER.
37	(25) ADDRESS	3	UCBCTLNA	CONTROL BLOCK LINK. IF THE DEVICE INDEX FIELD IS 1, THIS FIELD CONTAINS THE ADDRESS OF THE DEB FOR THE LINE GROUP. IF THE DEVICE INDEX FIELD IS BETWEEN 2 AND 255 INCLUSIVE, THIS FIELD CONTAINS THE ADDRESS OF THE UCB WITH A DEVICE INDEX OF 1.

3704, 3705 TELEPROCESSING DEVICE
 UCB SEGMENT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) ADDRESS	4	UCBRV040	RESERVED FOR USE AS TELEPROCESSING EXTENSION POINTER
28	(1C) ADDRESS	4	UCBICNCB	POINTER TO VTAM'S ICNCB
CHANNEL-TO-CHANNEL (CTC) DEVICE UCB SEGMENT				
24	(18) ADDRESS	4	UCBCTCAD	ADDRESS OF AN SRB/IOSB TO BE USED FOR SENSE COMMAND BYTE BY IECTCATN IF UCBCTC80 BIT IS SET TO ZERO
24	(18) ADDRESS	4	UCBCTCAL	ADDRESS OF JES3 ROUTINE FOR SWITCHING TO ALTERNATE PATH CTC IF UCBCTC80 BIT IS SET TO ONE
28	(1C) BITSTRING	1	UCBCTCF1	CHANNEL-TO-CHANNEL (CTC) DEVICE FLAG BYTE
	1... ..		UCBCTC80	"X'80'"- IF THIS BIT IS ON, ABOVE WORD HAS UCBCTCAL MEANING. IF THIS BIT IS OFF, ABOVE WORD HAS UCBCTCAD MEANING.
	.1..		UCBRV076	"X'40'",,C'X'"- RESERVED
	..1.		UCBRV077	"X'20'",,C'X'"- RESERVED
	...1		UCBRV078	"X'10'",,C'X'"- RESERVED
	.... 1...		UCBRV079	"X'08'",,C'X'"- RESERVED
	.... .1..		UCBRV080	"X'04'",,C'X'"- RESERVED
	.... ..1.		UCBRV081	"X'02'",,C'X'"- RESERVED
1		UCBRV082	"X'01'",,C'X'"- RESERVED
29	(1D) HEX	3	UCBRV042	RESERVED
3851 OR 3838 DEVICE UCB SEGMENT				

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) ADDRESS	4	UCBIOSBA	ADDRESS OF IOSB. SET BY IOS FOR ERROR CONDITIONS.
28	(1C) ADDRESS	4	UCBRV066	RESERVED
28	(1C) ADDRESS	4	UCBAPUB	3838 VPSS APUB ADDRESS

UNIT CONTROL BLOCK EXTENSIONS
 COMMON UCB EXTENSION
 THIS EXTENSION IS POINTED TO BY THE UCBEPTPT FIELD IN THE
 COMMON SEGMENT AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCBCMEXT	,
0	(0) SIGNED	1	UCBETI	A BINARY NUMBER USED BY THE EXIT EFFEC- TOR ROUTINE TO COMPLETE THE 8-BYTE NAME OF AN IBM-SUPPLIED ERROR ROUTINE FOR THIS DEVICE
1	(1) SIGNED	1	UCBSTI	INCREMENT WHICH, WHEN MULTIPLIED BY 10, BECOMES AN INDEX TO THE STATISTICS TABLE (STATAB)
2	(2) BITSTRING	1	UCBFL6	DEVICE FEATURES BYTE
	1... ..		UCBASUN	"X'80'"- ASSIGN/UNASSIGN COMMANDS SUP- PORTED
	.1... ..		UCBMDISP	"X'40'"- DEVICE HAS MESSAGE DISPLAY
	..1.		UCBDBUF	"X'20'"- DATA IS BUFFERED PRIOR TO STOR- ING ON PERMANENT MEDIA
3	(3) SIGNED	1	UCBATI	INDEX TO THE ATTENTION TABLE (ANTAB) OR OPTIONAL JOB ENTRY SUBSYSTEM (JES) FLAG BYTE
	1... ..		UCBRSV04	"X'80',,C'X'"- RESERVED
	.1... ..		UCBRSV05	"X'40',,C'X'"- RESERVED
	..1.		UCBRSV06	"X'20',,C'X'"- RESERVED
	...1		UCBRSV07	"X'10',,C'X'"- RESERVED
 1..		UCBRSV08	"X'08',,C'X'"- RESERVED
1..		UCBRSV09	"X'04',,C'X'"- RESERVED
1.		UCBHALI	"X'02'"- OPTIONAL JOB ENTRY SUBSYSTEM

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	1	UCBHPDV	(JES) ALLOCATION INDICATOR "X'01'"- OPTIONAL JOB ENTRY SUBSYSTEM (JES) PSEUDO-DEVICE
4	(4) SIGNED	1	UCBSNSCT	COUNT OF SENSE BYTES PRESENTED BY THIS DEVICE
5	(5) BITSTRING	1	UCBFLP1	FLAG BYTE
	1.... ..		UCBNSRCH	"X'80'"- THE CURRENTLY ALLOCATED VOLUME WAS SPECIFICALLY REQUESTED BY VOLUME SERIAL NUMBER. IT IS NOT AVAILABLE FOR ASSIGNMENT BY OPEN/EOV FOR A NON-SPECIFIC VOLUME REQUEST.
	.1.. ..		UCBSHRUP	"X'40'"- SHAREABLE WHEN IN UNIPROCESSOR MODE
	..1.		UCBRERP	"X'20'"- RESIDENT ERROR ROUTINE
	.... 1....		UCBINHIO	"X'10'"- INHIBIT HIO FROM SVC 33
	.... 1....		UCBSWAPF	"X'08'"- WITH BIT SET, THE DEVICE IS ABLE TO BE SWAPPED
	.... .1..		UCBERLOG	"X'04'"- INDICATES PRESENCE OF AN ERROR LOG IN A DEVICE
	.... ..1.		UCBDYNPH	"X'02'"- IF 1, DYNAMIC PATHING AVAILABIL- ITY IS AN OPTIONAL FEATURE FOR THIS DEVICE
	.... ..1		UCBRALOC	"X'01'"- ALLOCATIONS TO THIS DEVICE ARE RESTRICTED
6	(6) CHARACTER	1	UCBRV041	RESERVED
7	(7) BITSTRING	1	UCBFL7	MISCELLANEOUS USAGE FLAGS
	1.... ..		UCBMASGN	"X'80'" MULTI-SYSTEM ASSIGN DONE
	.1.. ..		UCBSSPND	"X'40'" SUSPENDED CHANNEL PROGRAM
	..1.		UCBMIHDF	"X'20'" MIH DOM FLAG. IF ON, MIH MESSAGE TO BE DOM'ED.
	.... 1....		UCBESIO	"X'10'" IF ON, IECVESIO HAS A REQUEST IN PROGRESS TO THIS DEVICE. THIS BIT ON WITH UCBQISCE WILL CAUSE I/O TO BE QUEUED. MAPPING CHANGED FROM X'01' TO X'10'.
8	(8) SIGNED	2	UCBCCWOF	OFFSET TO CCW PREFIX
10	(A) BITSTRING	2	UCBPMSK	PATH MASK FOR MESSAGES ISSUED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) SIGNED	2	UCBMFCNT	MEASUREMENT FACILITIES TOTAL DEVICE SIO COUNT. DURING NIP UCB INITIALIZATION, USED FOR PREVIOUSLY TESTED INDICATOR.
14	(E) SIGNED	2	UCBASID	ASID OF THE MEMORY TO WHICH THIS DEVICE IS ALLOCATED EXCEPT FOR UNALLOCATED TAPE. FOR UNALLOCATED TAPE, ASID OF THE LAST MEMORY TO WHICH THIS DEVICE WAS ALLOCATED.
16	(10) BITSTRING	1	UCBMIHTI	MISSING INTERRUPT HANDLER BYTE
	1... ..		UCBMIHSF	"X'80'"- MISSING INTERRUPT HANDLER UCB SCAN FLAG
	.1... ..		UCBMIHPB	"X'40'"- WITH BIT SET, MISSING INTERRUPT HANDLER CHECKING OF DEVICE IS PERMANENTLY BYPASSED
	..1.		UCBMIHT1	"X'20'"- WITH BIT SET, MISSING INTERRUPT HANDLER CHECKING OF DEVICE IS TEMPORARILY BYPASSED
	...1		UCBMIHT2	"X'10'"- WITH BIT SET, MISSING INTERRUPT HANDLER CHECKING OF DEVICE IS TEMPORARILY BYPASSED
	.... 1...		UCBIOQRP	"X'08'"- PENDING I/O REQUEST CONDITION
	.... .1..		UCBMIHST	"X'04'"- UCB ADDRESS TEMPORARILY MOVED TO MIH SECONDARY TABLE
	.... ..1.		UCBMIHIO	"X'02'"- I/O RESTART FUNCTION SCHEDULED BY MIH
	.... ...1		UCBPGDEV	"X'01'"- DEVICE IS BEING USED FOR PAGING.
17	(11) CHARACTER	3	UCBWTOID	WTO MESSAGE IDENTIFIER
20	(14) ADDRESS	4	UCBDDT	ADDRESS OF DEVICE-DEPENDENT TABLE ASSOCIATED WITH UCB
24	(18) ADDRESS	4	UCBCLEXT	POINTER TO DEVICE CLASS EXTENSION
28	(1C) SIGNED	2	UCBCUBSY	CONTROL UNIT BUSY COUNTER.
30	(1E) SIGNED	2	UCBDEBSY	DEVICE BUSY COUNTER.
32	(20) ADDRESS	4	UCBITFWA	INTERCEPT WORK AREA ADDRESS

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OFFSETS TYPE LENGTH NAME DESCRIPTION

MAGNETIC TAPE
 UCB EXTENSION
 THIS EXTENSION IS POINTED TO BY THE UCBXTN FIELD OF THE
 UCB AND IS NOT CONTIGUOUS TO THE UCB.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	UCBMT	, UCBXTN -> UCBMT
0	(0) SIGNED	2	UCBCTD	SERIAL NUMBER IN BINARY OF TAPE DRIVE UPON WHICH THE VOLUME WAS CREATED
2	(2) SIGNED	1	UCBTRT	TEMPORARY READ ERROR THRESHOLD (IF 0, EVA IS NOT IN EFFECT). A BINARY NUMBER FROM 1 THROUGH 255 AS SELECTED AT SYSGEN TIME ON THE SCHEDULR MACRO BY EVA=(N1,N2) WHERE N1 = TEMPORARY READ ERROR THRESHOLD.
3	(3) SIGNED	1	UCBTWT	TEMPORARY WRITE ERROR THRESHOLD (IF 0, EVA IS NOT IN EFFECT). A BINARY NUMBER FROM 1 THROUGH 255 AS SELECTED AT SYSGEN TIME ON THE SCHEDULR MACRO BY EVA=(N1,N2) WHERE N2 = TEMPORARY WRITE ERROR THRESHOLD.
4	(4) SIGNED	1	UCBTR	THE NUMBER (BINARY) OF TEMPORARY READ ERRORS THAT HAVE OCCURRED
4	(4) BITSTRING	1	UCBMTFL1	MSGDISP DISMOUNT REQUEST
	1... ..		UCBMTDSM	"X'80'"- DISP=D (DISMOUNT)
	.1.. ..		UCBMTKEP	"X'40'"- DISP=K (KEEP)
	..1.		UCBMTRET	"X'20'"- DISP=R (RETAIN)
5	(5) SIGNED	1	UCBTW	THE NUMBER (BINARY) OF TEMPORARY WRITE ERRORS THAT HAVE OCCURRED
6	(6) SIGNED	2	UCBSIO	THE NUMBER (BINARY) OF START I/O OPERATIONS THAT HAVE OCCURRED
8	(8) SIGNED	1	UCBPR	THE NUMBER (BINARY) OF PERMANENT READ ERRORS THAT HAVE OCCURRED
9	(9) SIGNED	1	UCBPW	THE NUMBER (BINARY) OF PERMANENT WRITE ERRORS THAT HAVE OCCURRED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
10	(A) CHARACTER	6	UCBSER	ERRORS THAT HAVE OCCURRED USED FOR TAPE DRIVES THAT HAVE MESSAGE DISPLAY USAGE DURING DISMOUNT PROCESSING ONLY SERIAL OF DISMOUNTED VOLUME
10	(A) SIGNED	1	UCBNB	THE NUMBER (BINARY) OF NOISE BLOCKS THAT HAVE BEEN ENCOUNTERED
11	(B) CHARACTER	1	UCBMS	MODE SET OPERATION CODE FOR DATA BLOCKS ON A 3420 MAGNETIC TAPE UNIT
12	(C) SIGNED	2	UCBERG	THE NUMBER (BINARY) OF ERASE GAPS THAT HAVE BEEN ENCOUNTERED
14	(E) SIGNED	2	UCBCLN	THE NUMBER (BINARY) OF CLEANER ACTIONS THAT HAVE OCCURRED

OPTICAL CHARACTER READER (3886)
 UCB EXTENSION
 THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE
 UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCBOCR	, UCBXTADR -> UCBOCR
0	(0) CHARACTER	4	UCBFRID	CURRENT FORMAT RECORD ID (FRID) LOADED
4	(4) HEX	4	UCBRDATA	COMMAND DATA

3540 DEVICE
 UCB EXTENSION
 THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE
 UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCB3540X	, UCBXTADR -> UCB3540X
0	(0) CHARACTER	6	UCBVLSER	3540 VOLID

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
6	(6) BITSTRING	1	UCBDKBYT	FLAG BYTE
	1... ..		UCBDKAMX	"X'80'"- IBM-SUPPLIED DISKETTE READER, DISKETTE WRITER OR COPY/RESTORE UTILI- TIES ARE USING THIS 3540 DEVICE
	.1.. ..		UCBVLVER	"X'40'"- VOLUME VERIFICATION IS REQUIRED FOR CERTAIN INTERVENTION REQUIRED CONDI- TIONS WHILE 3540 DISKETTE UTILITIES ARE USING THE DEVICE
	..1.		UCBRV067	"X'20',,C'X'"- RESERVED
	...1		UCBRV068	"X'10',,C'X'"- RESERVED
	.... 1...		UCBRV069	"X'08',,C'X'"- RESERVED
	.... .1..		UCBRV070	"X'04',,C'X'"- RESERVED
	.... ..1.		UCBRV071	"X'02',,C'X'"- RESERVED
	.... ...1		UCBRV072	"X'01',,C'X'"- RESERVED
7	(7) CHARACTER	1	UCBRV073	RESERVED

3800 DEVICE
 UCB EXTENSION
 THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE
 UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCB3800X	, UCBXTADR -> UCB3800X
0	(0) BITSTRING	1	UCBOPTNS	OPTIONAL FEATURES INSTALLED ON PRINTER
	1111		UCBMDLBT	"X'F0'"- MODEL
	.... 1...		UCBRV055	"X'08',,C'X'"- RESERVED
	.... .1..		UCBRV056	"X'04',,C'X'"- RESERVED
	.... ..1.		UCBBRSTR	"X'02'"- BURSTER/TRIMMER/STACKER
	.... ...1		UCBRV083	"X'01',,C'X'"- RESERVED
1	(1) SIGNED	1	UCBCGMNO	NUMBER OF WRITEABLE CHARACTER GENERATION MODULES
2	(2) BITSTRING	1	UCBGRAFS	GRAPHIC CHARACTER FLAG BYTE
	1... ..		UCBRV046	"X'80',,C'X'"- RESERVED
	.1..		UCBRV047	"X'40',,C'X'"- RESERVED
	..1.		UCBRV048	"X'20',,C'X'"- RESERVED
	...1		UCBRV049	"X'10',,C'X'"- RESERVED
 1...		UCBGRAF0	"X'08'"- WCGM 0 HAS BEEN MODIFIED BY A

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1..		UCBGRAF1	GRAPHIC CHARACTER MODIFICATION "X'04'"- WCGM 1 HAS BEEN MODIFIED BY A GRAPHIC CHARACTER MODIFICATION
	.... ..1.		UCBGRAF2	GRAPHIC CHARACTER MODIFICATION "X'02'"- WCGM 2 HAS BEEN MODIFIED BY A GRAPHIC CHARACTER MODIFICATION
	.... ...1		UCBGRAF3	GRAPHIC CHARACTER MODIFICATION "X'01'"- WCGM 3 HAS BEEN MODIFIED BY A GRAPHIC CHARACTER MODIFICATION
3	(3) BITSTRING	1	UCBACTIV	ACTIVE FEATURES
	1...		UCBRV057	"X'80',,C'X'"- RESERVED
	.1..		UCBRV058	"X'40',,C'X'"- RESERVED
	..1.		UCBRV059	"X'20',,C'X'"- RESERVED
	...1		UCBRV060	"X'10',,C'X'"- RESERVED
	.... 1...		UCBRV061	"X'08',,C'X'"- RESERVED
	.... .1..		UCBRV062	"X'04',,C'X'"- RESERVED
	.... ..1.		UCBRV063	"X'02',,C'X'"- RESERVED
	.... ...1		UCBBRSTA	"X'01'"- RESERVED
4	(4) CHARACTER	4	UCBCGMID	FOUR ONE-BYTE ID'S FOR CHARACTER MODULES LOADED IN WRITEABLE CHARACTER GENERATION MODULES (WCGM'S)
8	(8) CHARACTER	4	UCBCHAR1	NAME OF FIRST TRANSLATE TABLE
12	(C) CHARACTER	4	UCBCHAR2	NAME OF SECOND TRANSLATE TABLE
16	(10) CHARACTER	4	UCBCHAR3	NAME OF THIRD TRANSLATE TABLE
20	(14) CHARACTER	4	UCBCHAR4	NAME OF FOURTH TRANSLATE TABLE
24	(18) CHARACTER	4	UCBFCBNM	FORMS CONTROL BUFFER (FCB) IMAGE NAME
28	(1C) CHARACTER	4	UCBIMAGE	FORMS OVERLAY IMAGE IDENTIFICATION
32	(20) SIGNED	2	UCBLDATA	LOST DATA PAGE COUNT
34	(22) SIGNED	2	UCBPGID	ID OF THE LAST FUSED PAGE FOR SYSTEM RESTART OR PAGE AT THE TRANSFER STATION FOR CANCEL KEY
36	(24) ADDRESS	4	UCBMDRBF	MISCELLANEOUS DATA RECORDING (MDR) BUFFER ADDRESS

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OFFSETS TYPE LENGTH NAME DESCRIPTION

36 (24) SIGNED 1 UCBRV075 RESERVED
 37 (25) ADDRESS 3 UCBMDBA MDR BUFFER ADDRESS

UNIT RECORD WITH
 UNIVERSAL CHARACTER SET (1403, 3211)
 UCB EXTENSION
 THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE
 UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCBUCS	, UCBXTADR -> UCBUCS
0	(0) CHARACTER	4	UCBUCSID	UCS IMAGE IDENTIFICATION IN BUFFER
4	(4) BITSTRING	1	UCBUCSOP	FORMAT OF UCS IMAGE IN BUFFER (0 FOR OPTION)
	1... ..		UCBUCS01	"X'80'"- UCS IMAGE IS A DEFAULT IMAGE
	.1.. ..		UCBUCS02	"X'40'"- UCS IMAGE IS IN FOLD MODE
	..1.		UCBRV39	"X'20',,C'X'"- RESERVED
	...1		UCBRV40	"X'10',,C'X'"- RESERVED
	.... 1...		UCBRV41	"X'08',,C'X'"- RESERVED
	.... .1..		UCBRV42	"X'04',,C'X'"- RESERVED
	.... ..1.		UCBRV43	"X'02',,C'X'"- RESERVED
	.... ...1		UCBUCSPE	"X'01'"- UCS IMAGE HAS PARITY ERROR (3211)
5	(5) BITSTRING	1	UCBFCBOP	RESERVED (1403) OR FCB OPTIONS (3211) (0 FOR OPTION)
	1... ..		UCBFCB01	"X'80'"- FCB IMAGE IS A DEFAULT IMAGE
	.1.. ..		UCBRV44	"X'40',,C'X'"- RESERVED
	..1.		UCBRV45	"X'20',,C'X'"- RESERVED
	...1		UCBRV46	"X'10',,C'X'"- RESERVED
 11..		UCBFCBPS	"X'0C'" PRINTER SPEED SETTING FOR A VARIABLE SPEED PRINTER 01 LOW SPEED 10 MEDIUM SPEED 11 HIGH SPEED
1.		UCBRV49	"X'02',,C'X'"- RESERVED
1		UCBFCBPE	"X'01'"- FCB IMAGE HAS PARITY ERROR

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
6	(6) HEX	1	UCBRV51	RESERVED
7	(7) SIGNED	1	UCBERCNT	CONTAINS A COUNT OF THE ERRORS THAT HAVE OCCURRED. THE COUNT, WHICH MAY WRAP AROUND, IS WRITTEN IN STANDARD OBR RECORDS (ONE PER ERROR) AND IN NEW DEVICE-DEPENDENT OBR RECORDS (0 TO 3 PER ERROR) AND SERVE TO RELATE TO EACH OTHER THE STANDARD AND DEVICE-DEPENDENT OBR RECORDS THAT PERTAIN TO EACH ERROR (3211)
8	(8) CHARACTER	4	UCBFCBID	THE FCB IMAGE IDENTIFICATION
12	(C) ADDRESS	4	UCBERADR	THE ADDRESS OF THE ERP LOGOUT AREA
16	(10) CHARACTER	2	UCBIPGID	IMPACT PRINTER PAGE ID FOR LAST GOOD PAGE AFTER LOST DATA CONDITION
18	(12) HEX	2	UCBPDCT0	OFFSET TO PRINTER DEVICE CHARACTERISTICS TABLE (PDCT) FROM UCBCS
0	(0) STRUCTURE	0	UCBPDCTA	PRINTER DEVICE CHARACTERISTICS TABLE (PDCT) AREA (THE PDCT RESIDES IN THE UCS EXTENSION. HOWEVER, ITS ADDRESS MUST BE COMPUTED BY ADDING THE VALUE IN UCBPDCT0 TO THE ADDRESS OF UCBCS.)
0	(0) CHARACTER	16	UCBPDCT	PRINTER DEVICE CHARACTERISTICS TABLE (PDCT), MAPPED BY MAPPING MACRO IGGPDC

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
SRTEALOC	15	08	UCBASUN	2	80	UCBCRHRV	7	08
SRTEASCI	2D	04	UCBATI	3		UCBCRHSN	7	04
SRTEBALB	2D	20	UCBATNCT	1A		UCBCTCAD	18	
SRTEBNUL	2D	01	UCBATRCD	1B	01	UCBCTCAL	18	
SRTEBPRV	2D	10	UCBATTN	25	08	UCBCTCF1	1C	
SRTEBPUB	2D	08	UCBATTP	14	80	UCBCTC80	1C	80
SRTEBSTR	2D	04	UCBBALB	22	20	UCBCTD	0	
SRTEBSVL	2D	80	UCBBASE	28		UCBCTLNA	25	
SRTEBVQS	2D	04	UCBBGN	0	00	UCBCTLNK	24	
SRTECHGS	15	40	UCBBNUL	22	01	UCBCUB	6	08
SRTEDADI	15	01	UCBBOX	0	10	UCBCUBSY	1C	
SRTEDMCT	2D	0223	UCBBPRV	22	10	UCBCURPX	-4	08
SRTEFSCT	2D	0218	UCBBPUB	22	08	UCBDADI	3	01
SRTEFSEQ	2D	021A	UCBBRSTA	3	01	UCBDATP	23	0224
SRTEJBNR	15	0200	UCBBRSTR	0	02	UCBDVAV	25	80
SRTEMNT	15	01	UCBBSTR	22	04	UCBDBUF	2	20
SRTEONLI	15	80	UCBBSVL	22	80	UCBDCC	1	80
SRTEPRES	15	04	UCBBSY	6	80	UCBDDRSW	14	01
SRTERESV	15	20	UCBBTA	24		UCBDDT	14	
SRTESTAB	2D	0222	UCBBTAM	1C	10	UCBDEBSY	1E	
SRTESTAT	15	0203	UCBBTB	25		UCBDEV	15	0218
SRTESYSR	15	02	UCBBUSYD	6	80	UCBDI	24	
SRTEUNLD	15	10	UCBCCWOF	8		UCBDKAMX	6	80
SRTEUSER	2D	0226	UCBCGMID	4		UCBDKBYT	6	
SRTEVOLI	2D	021C	UCBCGMNO	1		UCBDMC	23	7F
UCB	0		UCBCHA	4		UCBDMCT	23	
UCBACTIV	3		UCBCHAN	4		UCBDPTH	7	01
UCBACTV	6	02	UCBCHAR1	8		UCBDQDSP	2B	20
UCBAF	1	40	UCBCHAR2	C		UCBDRNO	1C	20
UCBALOC	3	08	UCBCHAR3	10		UCBDRO	1C	40
UCBALTCU	1	02	UCBCHAR4	14		UCBDSM	13	42
UCBALTPH	1	01	UCBCHGS	3	40	UCBDSS	25	10
UCBAMV	1	40	UCBCHM	8		UCBDUC	0	20
UCBAOF	18		UCBCHM1	8		UCBDUDN1	11	20
UCBAOF1	18		UCBCLEXT	18		UCBDUDN2	11	10
UCBAOF2	19		UCBCLN	E		UCBDVCLS	12	
UCBAPUB	1C		UCBCMEXT	0		UCBDVPHR	11	01
UCBASCI	2D	04	UCBCMSEG	0	0200	UCBDVSHR	22	80
UCBASID	E		UCBCNT	9		UCBDWNR	1C	02
UCBASNS	7	40	UCBCPU	B		UCBDYNPH	5	02

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
UCBD1600	10	04	UCBGRAF3	2	01	UCBMIHT1	10	20
UCBD6250	10	02	UCBHALI	3	02	UCBMIHT2	10	10
UCBENVRD	1	08	UCBHOLD	25	04	UCBMMSGP	0	04
UCBERADR	C		UCBHPDV	3	01	UCBMONT	0	01
UCBERCNT	7		UCBICNCB	1C		UCBMOUNT	23	80
UCBERG	C		UCBID	2		UCBMS	B	
UCBERLOG	5	04	UCBIMAGE	1C		UCBMT	0	
UCBERPC	2C	10	UCBIN	C	80	UCBMTDSM	4	80
UCBESIO	7	10	UCBINHIO	5	10	UCBMTFL1	4	
UCBESV	2C	80	UCBINRLN	20		UCBMTKEP	4	40
UCBESVC	2C	20	UCBIOQ	-4		UCBMTXP	C	08
UCBESVE	2C	08	UCBIOQRP	10	08	UCBMTRET	4	20
UCBETI	0		UCBIORST	7	80	UCBNALOC	1	04
UCBEVA	2C	40	UCBIOSBA	18		UCBNAME	D	
UCBEXTP	15		UCBIPGID	10		UCBNB	A	
UCBEXTPT	14		UCBIRB	1C		UCBNEXP	2C	
UCBFCBID	8		UCBIRBA	1D		UCBNLTP	2B	80
UCBFCBNM	18		UCBIRLN	20		UCBNOTRC	6	08
UCBFCBOP	5		UCBITF	14	10	UCBNOTRD	6	40
UCBFCB01	5	80	UCBITFWA	20		UCBNRY	6	40
UCBFCBPE	5	01	UCBIVRR	14	04	UCBNSLTP	2B	40
UCBFCBPS	5	0C	UCBIVRS	14	08	UCBNSRCH	5	80
UCBFLA	6		UCBJBNR	0		UCBOB	0	
UCBFLB	7		UCBJES3	0	40	UCBOCR	0	
UCBFLC	14		UCBLCI	A		UCBOFMCR	18	80
UCBFLP1	5		UCBLDATA	20		UCBOFNL	18	20
UCBFL1	6	0206	UCBLDNCA	20		UCBOFPTR	18	10
UCBFL2	15	0206	UCBLDNCB	21		UCBOFSP	18	40
UCBFL4	25		UCBLOCK	-8		UCBOIP	1C	80
UCBFL5	1		UCBMASGN	7	80	UCBOLDISM	0	08
UCBFL6	2		UCBMAT	25	02	UCBOLTEP	1B	80
UCBFL7	7		UCBMDISP	2	40	UCBONLI	3	80
UCBFRID	0		UCBMDLBT	0	F0	UCBOPEN	1A	
UCBFSCT	18		UCBMDRBA	25		UCBOPTNS	0	
UCBFSEQ	1A		UCBMDRBF	24		UCBOUT	C	40
UCBFSER	24		UCBMFCNT	C		UCBPDCT	0	
UCBGCB	1B		UCBMIHDF	7	20	UCBPDCTA	0	
UCBGRAF	1C		UCBMIHIO	10	02	UCBPDCTO	12	
UCBGRAFS	2		UCBMIHPB	10	40	UCBPGDEV	10	01
UCBGRAF0	2	08	UCBMIHSF	10	80	UCBPGFL	22	40
UCBGRAF1	2	04	UCBMIHST	10	04	UCBPGID	22	
UCBGRAF2	2	02	UCBMIHTI	10		UCBPMSK	A	

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
UCBPPA	8	80	UCBRV40	4	10	UCBRV049	2	10
UCBPPB	8	20	UCBRV41	4	08	UCBRV055	0	08
UCBPR	8		UCBRV42	4	04	UCBRV056	0	04
UCBPRES	3	04	UCBRV43	4	02	UCBRV057	3	80
UCBPRFX	-4	0200	UCBRV44	5	40	UCBRV058	3	40
UCBPRSRS	22	20	UCBRV45	5	20	UCBRV059	3	20
UCBPSNS	6	10	UCBRV46	5	10	UCBRV060	3	10
UCBPST	6	20	UCBRV49	5	02	UCBRV061	3	08
UCBPTH0	8	C0	UCBRV51	6		UCBRV062	3	04
UCBPTH1	8	30	UCBRV65	18	08	UCBRV063	3	02
UCBPUB	C	20	UCBRV66	18	04	UCBRV066	1C	
UCBPW	9		UCBRV67	18	02	UCBRV067	6	20
UCBPXST	-200	01F8	UCBRV68	18	01	UCBRV068	6	10
UCBQISCE	6	01	UCBRV69	19	80	UCBRV069	6	08
UCBRALOC	5	01	UCBRV70	19	40	UCBRV070	6	04
UCBRDATA	4		UCBRV71	19	20	UCBRV071	6	02
UCBRDYQ	20		UCBRV72	19	10	UCBRV072	6	01
UCBRDYQA	21		UCBRV73	19	08	UCBRV073	7	
UCBRERP	5	20	UCBRV74	19	04	UCBRV075	24	
UCBRESV	3	20	UCBRV75	19	02	UCBRV076	1C	40
UCBRESVH	7	10	UCBRV76	19	01	UCBRV077	1C	20
UCBRESVP	25	20	UCBRV77	1B	40	UCBRV078	1C	10
UCBRES1B	2A		UCBRV78	1B	20	UCBRV079	1C	08
UCBREW	C	10	UCBRV79	1B	10	UCBRV080	1C	04
UCBRIPND	1B	04	UCBRTIAC	1B	08	UCBRV081	1C	02
UCBRLN	24		UCBRVDEV	11	08	UCBRV082	1C	01
UCBRPND	1C	04	UCBRV006	2B	08	UCBRV083	0	01
UCBRPS	11	10	UCBRV007	2B	04	UCBRWTAU	11	08
UCBRR	11	20	UCBRV008	2B	02	UCBSAP	6	04
UCBRRP	25	01	UCBRV009	2B	01	UCBSASK	1	20
UCBRV04	3	80	UCBRV014	8	08	UCBSATI	27	
UCBRV05	3	40	UCBRV015	8	04	UCBSER	A	
UCBRV06	3	20	UCBRV016	8	02	UCBSFLS	6	
UCBRV07	3	10	UCBRV017	8	01	UCBSHAR	22	02
UCBRV08	3	08	UCBRV029	C	01	UCBSHRUP	5	40
UCBRV09	3	04	UCBRV039	1C	01	UCBSIO	6	
UCBRV10	12	02	UCBRV040	18		UCBSKPGF	1B	02
UCBRV11	12	01	UCBRV041	6		UCBSNS	20	
UCBRV20	2C	04	UCBRV042	1D		UCBSNSCT	4	
UCBRV21	2C	02	UCBRV046	2	80	UCBSPA	8	40
UCBRV22	2C	01	UCBRV047	2	40	UCBSPB	8	10
UCBRV39	4	20	UCBRV048	2	20	UCBSPST	7	20

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
UCBSQC	24		UCBUNTYP	13		UCB20PT0	11	80
UCBSSPND	7	40	UCBUPM	1C	08	UCB20PT1	11	40
UCBSTAB	22		UCBURINP	0	02	UCB20PT2	11	20
UCBSTART	18		UCBUSER	26		UCB20PT3	11	10
UCBSTAT	3		UCBUSING	6	20	UCB20PT4	11	08
UCBSTI	1		UCBVALPH	7	02	UCB20PT5	11	04
UCBSTND	2	FF	UCBVHRSN	C	02	UCB20PT6	11	02
UCBSWAPF	5	08	UCBVLPWR	11	02	UCB20PT7	11	01
UCBSYSR	3	02	UCBVLSER	0		UCB2400	13	01
UCBTBYT1	10		UCBVLVER	6	40	UCB3CHAR	12	04
UCBTBYT2	11		UCBVOLI	1C		UCB3COMM	12	40
UCBTBYT3	12		UCBVOPT	2C		UCB3CTC	12	41
UCBTBYT4	13		UCBVORSN	C	04	UCB3DACC	12	20
UCBTEB	1C		UCBVRDEV	0	80	UCB3DISP	12	10
UCBTFL1	2B		UCBVSDR	1	10	UCB3TAPE	12	80
UCBTFL1S	2B	18	UCBVTOC	18		UCB3UREC	12	08
UCBTICBT	14	02	UCBWAA	14	40	UCB3036	13	0D
UCBTR	4		UCBWDAV	25	40	UCB3211	13	09
UCBTRT	2		UCBWGT	C		UCB3263	13	11
UCBTW	5		UCBWTOID	11		UCB3400	13	03
UCBTWT	3		UCBXTADR	18		UCB3430	2B	10
UCBTYP	10		UCBXTN	2C		UCB3480	13	80
UCBUA	5		UCBXTNB	2D		UCB3540X	0	
UCBUCS	0		UCB1FEA0	10	80	UCB3791L	13	F1
UCBUCSID	0		UCB1FEA1	10	40	UCB3800	13	0E
UCBUCSOP	4		UCB1FEA2	10	20	UCB3800X	0	
UCBUCS01	4	80	UCB1FEA3	10	10	UCB3838	13	4C
UCBUCS02	4	40	UCB1FEA4	10	08	UCB3895	13	19
UCBUCSPE	4	01	UCB1FEA5	10	04	UCB42AD1	13	11
UCBUDE	14	20	UCB1FEA6	10	02	UCB4248	13	13
UCBUNLD	3	10	UCB1FEA7	10	01	UCB7443	13	3D

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UCBCX

Common Name : UCB Tape Class Extension
Macro ID : IECUCBCX
DSECT Name : UCBCX
 element for the common section.
Created by : At SYSGEN time when ASCII=INCLUDE, and/or
 device type 3480 or 3400-9 is specified.
Subpool and Key : Nucleus and key 0
Size : ANSI - 24 bytes and
 3480/3400-9 - 26 bytes (if SYSGENed)
Pointed to by : UCBCLEXT field in the UCB common extension
Serialization : None
Function : The UCBCX maps the UCB Tape Class Extension. The ANSI portion
 contains VOL1 header label information across OPENS when there is
 no reverification. The 3480/3400-9 portion contains volume error
 statistics and positioning information.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	44	UCBCX	UCB TAPE CLASS EXTENSION
0	(0) CHARACTER	18	UCBCXANS	ANSI PORTION OF EXTENSION
0	(0) CHARACTER	1	UCBCXACC	VOL1 ACCESSIBILITY CODE FROM LABEL

THE UCB EXIT FLAGS (UCBCXFL1) ARE SET WITH AN AUDIT TRAIL FOR
 ANSI EXIT ACTIVITY DURING VOLUME VERIFICATION.

1	(1) BITSTRING	1	UCBCXFL1	FLAG BYTE
	1...		UCBCXVAL	VALIDATION EXIT ENTERED
	.1..		UCBCXSUP	SUPPRESS LBL VALIDATION CHECK
2	(2) CHARACTER	1	UCBCXVER	VOL1 LABEL-STANDARD VERSION
3	(3) BITSTRING	1		RESERVED FOR FUTURE USE
4	(4) CHARACTER	14	UCBCXOWN	VOL1 OWNER IDENTIFICATION

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
18	(12) CHARACTER	26	UCBCLXE	3480 PORTION OF EXTENSION
18	(12) CHARACTER	2	UCBCXERG	NO. OF ERASE GAPS
20	(14) CHARACTER	2	UCBCXCLN	NO. OF CLEANER ACTIONS
22	(16) CHARACTER	2	UCBCXRD	READ FWD DATA CHECKS
24	(18) CHARACTER	2	UCBCXRDB	READ BKWD DATA CHECKS
26	(1A) CHARACTER	2	UCBCXWR	WRITE DATA CHECKS
28	(1C) CHARACTER	3	UCBCXMBR	READ BYTES PROCESSED(*4K)
31	(1F) CHARACTER	3	UCBCXMBW	WRT BYTES PROCESSED(*4K)
34	(22) CHARACTER	2	UCBCXRS6	RESERVED
36	(24) CHARACTER	4	UCBCXBLK	BLOCKID SAVE AREA
40	(28) CHARACTER	4	UCBCXTUS	SERIAL NO OF TAPE DRIVE

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UCBTYP

Common Name : Unit Control Block Type Bytes
 Macro ID : UCBTYPES
 DSECT Name : None
 Created by : SYSGEN
 Subpool and Key : Nucleus and key 0
 Size : Variable
 Pointed to by : None
 Serialization : None
 Function : The UCB describes the characteristics of a device to the I/O supervisor and is used by the job scheduler during allocation of the device. There is a UCB for each device attached to the system.
 *. NOTE - This is a mapping of the UCBTYP field of the UCB (UCB + X'10' through UCB + X'14'). The names defined are for mapping use only.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	UCBTYP	
0	(0) HEX	16	UCBCOMMN	
16	(10) BITSTRING	4	UCBTYP	
Unit Record Device Class X'08'				
16	(10) BITSTRING	1		Unit Record Model bits
	1111		UR1HEXF0	"X'F0'" I/O Supervisor flags
	1...		UR1HEX80	"X'80'" Reserved bit
	.1..		UR1HEX40	"X'40'" Overrunnable device
	..1.		UR1HEX20	"X'20'" If ON burst mode, If OFF byte mode
	...1		UR1HEX10	"X'10'" Data chaining
 1111		UR1HEX0F	"X'0F'" Model code field none defined
17	(11) BITSTRING	1		Unit Record Option flags

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
			UR2HEX80	"X'80'" Universal character set (UCS)
			UR2HEX4E	"X'4E'" Reserved bits
			UR2HEX20	"X'20'" 3525 two-line print feature
			UR2HEX10	"X'10'" 3525 multi-line print feature
			UR2HEX01	"X'01'" Card image (binary mode)
18	(12) BITSTRING	1		Device Class bits
			UR3HEX08	"X'08'" Unit Record devices
19	(13) BITSTRING	1		Unit Record device unit code byte
			UR4HEX01	"X'01'" 2540 Card Reader
			UR4HEX02	"X'02'" 2540 Card Punch
			UR4HEX04	"X'04'" 2501 Card Reader
			UR4HEX05	"X'05'" 2520 Card Read Punch
			UR4HEX06	"X'06'" 3505 Card Reader
			UR4HEX07	"X'07'" Reserved
			UR4HEX08	"X'08'" 1403 Printer (Models N1, 2, 7) and 1404 Printer (Continuous form sup- port only)
			UR4HEX09	"X'09'" 3211 Printer
			UR4HEX0A	"X'0A'" 1443 Printer (Model N1 only)
			UR4HEX0B	"X'0B'" 3203 Printer
			UR4HEX0C	"X'0C'" 3525 Card Punch
			UR4HEX0D	"X'0D'" Reserved
			UR4HEX0E	"X'0E'" 3800 Printing Subsystem
			UR4HEX0F	"X'0F'" Reserved
			UR4HEX10	"X'10'" 2671 Paper Tape Reader
			UR4HEX11	"X'11'" 4245 Printer
			UR4HEX12	"X'12'" Reserved
			UR4HEX13	"X'13'" 4248 Printer
			UR4HEX14	"X'14'" Reserved
			UR4HEX15	"X'15'" Reserved
			UR4HEX16	"X'16'" 3890 Document Processor
			UR4HEX17	"X'17'" 3886 Optical Character Reader
			UR4HEX18	"X'18'" 2495 Tape Cartridge Reader
			UR4HEX19	"X'19'" 3895 Document Reader/Inscriber
			UR4HEX1A	"X'1A'" 1285 Optical Reader
			UR4HEX1B	"X'1B'" 1287 Optical Reader
			UR4HEX1C	"X'1C'" 1288 Optical Page Reader
			UR4HEX1D	"X'1D'" 1419 Magnetic Character Reader, Primary Control Unit
			UR4HEX1E	"X'1E'" 1419 Magnetic Character Reader or 1275 Optical Reader Sorter, Secondary

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
...1	1111		UR4HEX1F	Control Unit "X'1F'" 1275 Optical Reader Sorter, Primary Control Unit
..1.	....		UR4HEX20	"X'20'" 1052 Console Printer-keyboard
..1.	...1		UR4HEX21	"X'21'" 2150 Console
..1.	..1.		UR4HEX22	"X'22'" 3210 Console Printer-keyboard
..1.	..11		UR4HEX23	"X'23'" 3215 Console Printer-keyboard
..11	....		UR4HEX30	"X'30'" 3215 Printer
.1..	..1.		UR4HEX42	"X'42'" 3851 Mass Storage Facility
.1..	.1..		UR4HEX44	"X'44'" 3540 Diskette
.1..	11..		UR4HEX4C	"X'4C'" 3838 Array Processor

Magnetic Tape Device Class - X'80'

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) BITSTRING	1		Magnetic Tape Model bits-----
	1111	....	MT1HEXF0	"X'F0'" I/O Supervisor flags
	1...	....	MT1HEX80	"X'80'" Reserved bit
	.1..	....	MT1HEX40	"X'40'" Overrunnable device
	..1.	....	MT1HEX20	"X'20'" If ON burst mode. If OFF byte mode.
	...1	....	MT1HEX10	"X'10'" Data Chaining
	....	1111	MT1HEX0F	"X'0F'" Model Code.....
	....	1111	MT1HEX09	"X'0F'" Reserved codes
	....	1...	MT1HEX08	"X'08'" Reserved bit
	....	.1..	MT1HEX04	"X'04'" 1600 BPI
	....	..1.	MT1HEX02	"X'02'" 6250 BPI
	....	...1	MT1HEX01	"X'01'" Reserved bit
1	(1) BITSTRING	1		Magnetic tape option flags
	1...	....	MT2HEX80	"X'80'" 7-Track compatability
	.1..	....	MT2HEX40	"X'40'" Data conversion
	..1.	....	MT2HEX20	"X'20'" Dual Density (800/1600 BPI)
	...1	....	MT2HEX10	"X'10'" Dual Density (6250/1600 BPI)
	....	.111	MT2HEX07	"X'07'" Reserved bits
2	(2) BITSTRING	1		Device Class byte
	1...	....	MT3HEX80	"X'80'" Magnetic tape class
3	(3) BITSTRING	1		Magnetic Class device units code byte
1	MT4HEX01	"X'01'" 2400 Series magnetic tape

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.... ..11			MT4HEX03	"X'03'" 3400 Series magnetic tape unit
1...			MT4HEX80	"X'80'" 3480 Series magnetic tape unit

Direct Access Storage Device Class

0	(0) BITSTRING	1		Direct Access Model bits
	1111		DA1HEXF0	"X'F0'" I/O Supervisor flags
	1...		DA1HEX80	"X'80'" Reserved bit
	.1..		DA1HEX40	"X'40'" Overrunnable device
	..1.		DA1HEX20	"X'20'" If ON, burst mode. If OFF, byte mode.
	...1		DA1HEX10	"X'10'" Data chaining
	.... 1111		DA1HEX0F	"X'0F'" Model code field none defined
1	(1) BITSTRING	1		Direct Access Optional Features byte
	1...		DA2HEX80	"X'80'" Reserved
	.1..		DA2HEX40	"X'40'" Track overflow
	..1.		DA2HEX20	"X'20'" This device can be shared by two or more processors
	...1		DA2HEX10	"X'10'" Rotational position sensing device
	.... 1...		DA2HEX08	"X'08'" Virtual DASD
	.... .1..		DA2HEX04	"X'04'" Reserved
	.... ..1.		DA2HEX04	"X'02'" Reserved
	.... ...1		DA2HEX04	"X'01'" Reserved
	1... .1..		DA2HEX84	"X'84'" Reserved bits
2	(2) BITSTRING	1		Device Class bits
	..1.		DA3HEX20	"X'20'" Direct Access Storage Device
3	(3) BITSTRING	1		Direct Access device unit byte
	.... ...1		DA4HEX01	"X'01'" 2311 Disk storage
	.... ..1.		DA4HEX02	"X'02'" 2301 Disk storage
	.... ..11		DA4HEX03	"X'03'" 2303 Disk storage
	.... .1..		DA4HEX03	"X'04'" 2302 Disk storage
	.... .1.1		DA4HEX03	"X'05'" 2321 Disk storage
	.... .11.		DA4HEX06	"X'06'" 2305 Fixed Head Storage Model 1
	.... .111		DA4HEX07	"X'07'" 2305 Fixed Head Storage Model 2
 1...		DA4HEX08	"X'08'" 2314/2319 Direct Access Storage Facility
 1..1		DA4HEX09	"X'09'" 3330 Series Disk Storage 3330

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.... 1.1.			DA4HEX0A	Model 1 or 2 and 3333 Model 1 "X'0A'" 3340 Disk storage
.... 1.11			DA4HEX0B	"X'0B'" 3350 Direct Access Storage Mod- els A2, B2, and C2
.... 11..			DA4HEX0C	"X'0C'" 3375 Direct Access Storage
.... 11.1			DA4HEX0D	"X'0D'" 3330 Model 11 or 3333 Model 11 Disk Storage
.... 111.			DA4HEX0E	"X'0E'" 3380 Direct Access Storage

Graphics Device Class
 (The model and optional features fields are defined by
 graphic type)

2250 Display Unit - Model and optional feature definitions

0	(0) BITSTRING	1		2250 Display Unit Model Bits-----
	1111		GA1HEXF0	"X'F0'" Device Class
	..11		GA1HEX30	"X'30'" 2250
	.... 1111		GA1HEX0F	"X'0F'" Model Code
	.... ...1		GA4HEX01	"X'01'" Model 1
	.... ..1.		GA4HEX02	"X'02'" Model 2
	.... ...11		GA4HEX03	"X'03'" Model 3
1	(1) BITSTRING	1		2250 Display Unit Optional Feature byte
	.... ....		GA2HEX00	"X'00'" Model 1,2,3 No optional features
	...1		GA2HEX10	"X'10'" Model 1,2,3 Programmed function keyboard only
	..1.		GA2HEX20	"X'20'" Model 1,2 Light pen only
	..11		GA2HEX30	"X'30'" Model 1,2 Programmed function keyboard and light pen
	.1..		GA2HEX40	"X'40'" Model 1,2,3 Alphameric keyboard only
	.1.1		GA2HEX50	"X'50'" Model 1,2,3 Programmed function keyboard and alphameric keyboard
	.11.		GA2HEX60	"X'60'" Model 1,2 Alphameric keyboard

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				and light pen
.111		GA2HEX70	"X'70'" Model 1,2 Alphameric keyboard, light pen and programmed function keyboard
1...	....		GA2HEX80	"X'80'" Model 1,2 Absolute vector graphics only
1..1	....		GA2HEX90	"X'90'" Model 1,2 Absolute vector graphics and programmed function keyboard
1.1.	....		GA2HEXA0	"X'A0'" Model 1,2 Absolute vector graphics and light pen
1.11	....		GA2HEXB0	"X'B0'" Model 1,2 Absolute vector graphics, programmed function keyboard, and light pen
11..	....		GA2HEXC0	"X'C0'" Model 1,2 Absolute vector graphics and alphameric keyboard
11.1	....		GA2HEXD0	"X'D0'" Model 1,2 Absolute vector graphics, programmed function keyboard and alphameric keyboard
111.	....		GA2HEXE0	"X'E0'" Model 1,2 Absolute vector graphics, alphameric keyboard and light pen
1111	....		GA2HEXF0	"X'F0'" Model 1,2 Absolute vector graphics, alphameric keyboard, light pen and programmed function keyboard
....	...1		GA2HEX01	"X'01'" Model 1 4K Buffer only
....	..1.		GA2HEX02	"X'02'" Model 1 8K Buffer only
....	..11		GA2HEX03	"X'03'" Model 1 Character generator only
....	.1..		GA2HEX04	"X'04'" Model 1 4K Buffer and character generator
....	.1.1		GA2HEX05	"X'05'" Model 1 8K Buffer and character generator
....	.11.		GA2HEX06	"X'06'" Model 1 Graphic Design feature only
....	.111		GA2HEX07	"X'07'" Model 1 Graphic Design feature and 4K buffer
....	1...		GA2HEX08	"X'08'" Model 1 Graphic Design Feature and 8K buffer
....	1..1		GA2HEX09	"X'09'" Model 1 Graphic Design feature and character generator
....	1.1.		GA2HEX0A	"X'0A'" Model 1 Graphic Design feature,

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	1.11		GA2HEX0B	4K buffer, and character generator "X'0B'" Model 1 Graphic Design feature, 8K buffer, and character generator
3270 Display system devices 3277, 3278 and 3279 display stations				
0	(0) BITSTRING	1		3270 Display system devices Model bits 3277, 3278 and 3279 display stations
	...1 ...1		GC1HEX11	"X'11'" Model 1
	...1 ..1.		GC1HEX12	"X'12'" Model 2, 2A, 2B, 3, 3A, 3B, or 4
1	(1) BITSTRING	1		3270 Display system devices- Optional Features 3277, 3278 and 3279 display stations
	111.		GC2HEXE0	"X'E0'" Keyboard type
	.... ....		GC2HEX00	"X'00'" No keyboard, domestic character generator, and monospace character gener- ator
	..1.		GC2HEX20	"X'20'" 66 Key EBCDIC typewriter key- board
	.1..		GC2HEX40	"X'40'" 78 Key EBCDIC typewriter key- board
	.11.		GC2HEX60	"X'60'" 66 Key data entry keyboard
	1...		GC2HEX80	"X'80'" 78 Key operator console keyboard
	1.1.		GC2HEXA0	"X'A0'" 66 Key ASCII typewriter keyboard
	11..		GC2HEXC0	"X'C0'" 78 Key ASCII typewriter keyboard
	...1		GC2HEX10	"X'10'" Audible alarm feature
	.... 111.		GC2HEX0E	"X'0E'" Character generator type
	.... ..1.		GC2HEX02	"X'02'" ASCII A character generator
	.... .1..		GC2HEX04	"X'04'" ASCII B character generator
	.... .11.		GC2HEX06	"X'06'" United Kingdom character genera- tor
	.... 1...		GC2HEX08	"X'08'" French character generator
 1.1.		GC2HEX0A	"X'0A'" German character generator
1		GC2HEX01	"X'01'" Character generator case

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OFFSETS TYPE LENGTH NAME DESCRIPTION

3270 Display system devices
 3284 and 3286 Printers

0	(0) BITSTRING	1		3270 Display system devices Model bits 3284 and 3286 Printers
	...1 ...1		GD1HEX11	"X'11'" 3284 or 3286 Model 1
	...1 ..1.		GD1HEX12	"X'12'" 3284 or 3286 Model 2
1	(1) BITSTRING	1		3270 Display system devices- Optional Features 3284 and 3286 Printers
	.... ....		GD2HEX00	"X'00'" No optional features available

Graphics Device Class

2	(2) BITSTRING	1		Device Class byte
	...1		GD3HEX10	"X'10'" Graphics
3	(3) BITSTRING	1		Graphics Class unit code byte
	.... ..1.		GA4HEX02	"X'02'" 2250 Display Unit
	.... ..11		GA4HEX03	"X'03'" 2260 Display Unit
	.... .1..		GA4HEX04	"X'04'" 1053 Printer
	.... .1.1		GA4HEX05	"X'05'" 2280 Display Unit
	.... .11.		GA4HEX06	"X'06'" 2282 Display Unit
	.... .111		GA4HEX07	"X'07'" Model 85 console
	.... 1...		GA4HEX08	"X'08'" 3066 system console
	.... 1..1		GC4HEX09	"X'09'" 3277, 3278, or 3279 Display sta- tion
	.... 1.1.		GD4HEX0A	"X'0A'" 3284 Printer
	.... 1.11		GD4HEX0B	"X'0B'" 3286 Printer
	.... 11..		GA4HEX0C	"X'0C'" 3158 system console
 11.1		GA4HEX0D	"X'0D'" 3036 console
 111.		GA4HEX0E	"X'0E'" 3138 console
 1111		GA4HEX0E	"X'0F'" 3148 console

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OFFSETS TYPE LENGTH NAME DESCRIPTION

Teleprocessing Class - Communication Equipment
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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) BITSTRING	1		Teleprocessing Model bits
1111	....		CE1HEXF0	"X'F0'" I/O Supervisor flags
1...	....		CE1HEX80	"X'80'" Reserved bit
.1..	....		CE1HEX40	"X'40'" Overrunable device
..1.	....		CE1HEX20	"X'20'" If ON, burst mode. If OFF, byte mode.
...1	....		CE1HEX10	"X'10'" Data chaining
....	1111		CE1HEX0F	"X'0F'" Model code. This value together with the value in the adaptor type field (byte 19- X'13') identify the model.
....	...1		CE1HEX01	"X'01'" Adaptor type 1 Unit 1050; Adaptor type 2 Unit 1030; Adaptor type 3 Unit 1050; Adaptor type 4 Unit 83B3; Adaptor type 5 Unit TWX; Adaptor Type 6 Unit WTTA; Adaptor Type 8 Unit 2260;
....	..1.		CE1HEX02	"X'02'" Adaptor Type 1 Unit 1060; Adaptor Type 4 Unit 115A;
....	..11		CE1HEX03	"X'03'" Adaptor Type 1 Unit 2740 (correspondence code);
....	.1..		CE1HEX04	"X'04'" Adapter Type 1 Unit 2740
....	.1.1		CE1HEX05	"X'05'" Adapter Type 1 Unit 2741C (correspondence code); Adapter Type 9 Unit BSC1 non-switched Point to point
....	.11.		CE1HEX06	"X'06'" Adapter Type 1 Unit 2741P (PTTC/BCD or PTTC/EBCDIC); Adapter Type 9 Unit BSC2 (switched point to point)
....	.111		CE1HEX07	"X'07'" Adapter type 1 Unit 1050X (Inhibit); Adapter Type 9 Unit BSC3 (non-switched multipoint)
....	1...		CE1HEX08	"X'08'" Adapter Type 1 Unit 2740X (Inhibit)
....	1..1		CE1HEX09	"X'09'" Adapter Type 1 Unit 2740B
1	(1) BITSTRING	1		Teleprocessing Optional Features byte
1...		CE2HEX80	"X'80'" Automatic calling

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.1..			CE2HEX40	"X'40'" Automatic polling
..1.			CE2HEX20	"X'20'" Checking (2740 only) or dual communications interface (2701 SDA-II)
....1			CE2HEX10	"X'10'" Automatic answering
.... 1...			CE2HEX08	"X'08'" Station control (2740 ONLY)
.... .1..			CE2HEX04	"X'04'" Dual code (2701 SDA-II) or Transmit control (2740 only)
.... 11..			CE2HEX0C	"X'0C'" Optical Image Unit
.... ..11			CE2HEX03	"X'03'" SADTHREE
.... ..1.			CE2HEX02	"X'02'" SADTWO
....1			CE2HEX01	"X'01'" SADONE
....			CE2HEX00	"X'00'" SADZER
2	(2) BITSTRING	1		Device Class bits
.1..			CE3HEX40	"X'40'" Teleprocessing Communication Equipment
3	(3) BITSTRING	1		Teleprocessing Device unit code byte
1111			CE4HEXF0	"X'F0'" Adapter type With 2701, 2702 or 2703
....1			CE4HEX10	"X'10'" IBM Terminal Adapter Type I
..1.			CE4HEX20	"X'20'" IBM Terminal Adapter Type II
..11			CE4HEX30	"X'30'" IBM Telegraph Adapter
.1..			CE4HEX40	"X'40'" Telegraph Adapter Type I
.1.1			CE4HEX50	"X'50'" Telegraph Adapter Type II
.11.			CE4HEX60	"X'60'" World Trade Telegraph Adapter
.111			CE4HEX70	"X'70'" Synchronous Adapter Type I
1...			CE4HEX80	"X'80'" IBM Terminal Adapter Type III
1..1			CE4HEX90	"X'90'" Synchronous Adapter Type II
.... 1111			CE4HEX0F	"X'0F'" Control Unit
....1			CE4HEX01	"X'01'" 2702 Control Unit
.... ..1.			CE4HEX02	"X'02'" 2701 Control Unit
.... ..11			CE4HEX03	"X'03'" 2703 Control Unit
.... .1..			CE4HEX04	"X'04'" 2955
.... .1.1			CE4HEX05	"X'05'" 3704/3705 Intelligent Control Unit
1111 ...1			CE4HEXF1	"X'F1'" 3791 Local Control Unit

Channel-to-Channel Adapter Device Class

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) BITSTRING ...1	1	CC1HEX10	CTC Model bits "X'10'" Data chaining
1	(1) BITSTRING	1		CTC Optional Features flags. None defined
2	(2) BITSTRING .1.. ...1	1	CC3HEX41	Device Class bits "X'41'" Channel-to-Channel Adapter
3	(3) BITSTRING	1		Device unit code none defined

<p>Character Reader Device Class (There are no devices defined in this class, see unit record class)</p>

0	(0) BITSTRING	1		Character Reader Model bits. None defined
1	(1) BITSTRING	1		Character Reader Optional Features byte
2	(2) BITSTRING1..	1	CR3HEX04	Device Class bits "X'04'" Character Reader
3	(3) BITSTRING	1		Character Reader device unit code byte. None defined.

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
CC1HEX10	0	10	CE4HEX40	3	40	GA2HEXE0	1	E0
CC3HEX41	2	41	CE4HEX50	3	50	GA2HEXF0	1	F0
CE1HEXF0	0	F0	CE4HEX60	3	60	GA2HEX0A	1	0A
CE1HEX0F	0	0F	CE4HEX70	3	70	GA2HEX0B	1	0B
CE1HEX01	0	01	CE4HEX80	3	80	GA2HEX00	1	00
CE1HEX02	0	02	CE4HEX90	3	90	GA2HEX01	1	01
CE1HEX03	0	03	CR3HEX04	2	04	GA2HEX02	1	02
CE1HEX04	0	04	DA1HEXF0	0	F0	GA2HEX03	1	03
CE1HEX05	0	05	DA1HEX0F	0	0F	GA2HEX04	1	04
CE1HEX06	0	06	DA1HEX10	0	10	GA2HEX05	1	05
CE1HEX07	0	07	DA1HEX20	0	20	GA2HEX06	1	06
CE1HEX08	0	08	DA1HEX40	0	40	GA2HEX07	1	07
CE1HEX09	0	09	DA1HEX80	0	80	GA2HEX08	1	08
CE1HEX10	0	10	DA2HEX04	1	01	GA2HEX09	1	09
CE1HEX20	0	20	DA2HEX08	1	08	GA2HEX10	1	10
CE1HEX40	0	40	DA2HEX10	1	10	GA2HEX20	1	20
CE1HEX80	0	80	DA2HEX20	1	20	GA2HEX30	1	30
CE2HEX0C	1	0C	DA2HEX40	1	40	GA2HEX40	1	40
CE2HEX00	1	00	DA2HEX80	1	80	GA2HEX50	1	50
CE2HEX01	1	01	DA2HEX84	1	84	GA2HEX60	1	60
CE2HEX02	1	02	DA3HEX20	2	20	GA2HEX70	1	70
CE2HEX03	1	03	DA4HEX0A	3	0A	GA2HEX80	1	80
CE2HEX04	1	04	DA4HEX0B	3	0B	GA2HEX90	1	90
CE2HEX08	1	08	DA4HEX0C	3	0C	GA4HEX0C	3	0C
CE2HEX10	1	10	DA4HEX0D	3	0D	GA4HEX0D	3	0D
CE2HEX20	1	20	DA4HEX0E	3	0E	GA4HEX0E	3	0E
CE2HEX40	1	40	DA4HEX01	3	01	GA4HEX01	0	01
CE2HEX80	1	80	DA4HEX02	3	02	GA4HEX02	3	02
CE3HEX40	2	40	DA4HEX03	3	03	GA4HEX03	3	03
CE4HEXF0	3	F0	DA4HEX06	3	06	GA4HEX04	3	04
CE4HEXF1	3	F1	DA4HEX07	3	07	GA4HEX05	3	05
CE4HEX0F	3	0F	DA4HEX08	3	08	GA4HEX06	3	06
CE4HEX01	3	01	DA4HEX09	3	09	GA4HEX07	3	07
CE4HEX02	3	02	GA1HEXF0	0	F0	GA4HEX08	3	08
CE4HEX03	3	03	GA1HEX0F	0	0F	GC1HEX11	0	11
CE4HEX04	3	04	GA1HEX30	0	30	GC1HEX12	0	12
CE4HEX05	3	05	GA2HEXA0	1	A0	GC2HEXA0	1	A0
CE4HEX10	3	10	GA2HEXB0	1	B0	GC2HEXC0	1	C0
CE4HEX20	3	20	GA2HEXC0	1	C0	GC2HEXE0	1	E0
CE4HEX30	3	30	GA2HEXD0	1	D0	GC2HEX0A	1	0A

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
GC2HEX0E	1	0E	MT2HEX10	1	10	UR4HEX04	13	04
GC2HEX00	1	00	MT2HEX20	1	20	UR4HEX05	13	05
GC2HEX01	1	01	MT2HEX40	1	40	UR4HEX06	13	06
GC2HEX02	1	02	MT2HEX80	1	80	UR4HEX07	13	07
GC2HEX04	1	04	MT3HEX80	2	80	UR4HEX08	13	08
GC2HEX06	1	06	MT4HEX01	3	01	UR4HEX09	13	09
GC2HEX08	1	08	MT4HEX03	3	03	UR4HEX1A	13	1A
GC2HEX10	1	10	MT4HEX80	3	80	UR4HEX1B	13	1B
GC2HEX20	1	20	UCBCOMMN	0		UR4HEX1C	13	1C
GC2HEX40	1	40	UCBTYP	10		UR4HEX1D	13	1D
GC2HEX60	1	60	UR1HEXF0	10	F0	UR4HEX1E	13	1E
GC2HEX80	1	80	UR1HEX0F	10	0F	UR4HEX1F	13	1F
GC4HEX09	3	09	UR1HEX10	10	10	UR4HEX10	13	10
GD1HEX11	0	11	UR1HEX20	10	20	UR4HEX11	13	11
GD1HEX12	0	12	UR1HEX40	10	40	UR4HEX12	13	12
GD2HEX00	1	00	UR1HEX80	10	80	UR4HEX13	13	13
GD3HEX10	2	10	UR2HEX01	11	01	UR4HEX14	13	14
GD4HEX0A	3	0A	UR2HEX10	11	10	UR4HEX15	13	15
GD4HEX0B	3	0B	UR2HEX20	11	20	UR4HEX16	13	16
MT1HEXF0	0	F0	UR2HEX4E	11	4E	UR4HEX17	13	17
MT1HEX0F	0	0F	UR2HEX80	11	80	UR4HEX18	13	18
MT1HEX01	0	01	UR3HEX08	12	08	UR4HEX19	13	19
MT1HEX02	0	02	UR4HEX0A	13	0A	UR4HEX20	13	20
MT1HEX04	0	04	UR4HEX0B	13	0B	UR4HEX21	13	21
MT1HEX08	0	08	UR4HEX0C	13	0C	UR4HEX22	13	22
MT1HEX09	0	0F	UR4HEX0D	13	0D	UR4HEX23	13	23
MT1HEX10	0	10	UR4HEX0E	13	0E	UR4HEX30	13	30
MT1HEX20	0	20	UR4HEX0F	13	0F	UR4HEX4C	13	4C
MT1HEX40	0	40	UR4HEX01	13	01	UR4HEX42	13	42
MT1HEX80	0	80	UR4HEX02	13	02	UR4HEX44	13	44
MT2HEX07	1	07						

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UCM

Common Name : Unit Control Module

Macro ID : IEEUCUM

DSECT Name : UCM2EXT (DSECT for UCM extension)

UCMPRFX (DSECT for MCS prefix)

UCM (DSECT for UCM base)

UCMEIL (DSECT for UCM event indication list)

UCMLIST (DSECT for individual device entry (UCME) map)

UCMEXIT (DSECT for UCM user exit work area)

UCMFEXTA (DSECT for UCM fixed extension base)

UCMFSAVE (DSECT for UCM fixed extension save area)

UCMPEXTA (DSECT for UCM pageable extension base)

UCMEFEXT (DSECT for UCME fixed extension)

UCMEPEXT (DSECT for UCME pageable extension)

Created by : SYSGEN creates UCM extension, MCS prefix, UCM base, UCM event indication list and UCM individual device entries (one per console). IEAVVINT creates UCM fixed extension base, UCM fixed extension save area, UCM pageable extension base, UCME fixed extension (one per console) and UCME pageable extensions (one per console). The user exit work area is mapped by IEEUCUM, but this area is not part of the UCM. UCMEXIT is a mapping of the space gotten and freed by IEAVVWTO.

Subpool and Key : Nucleus resident and key 0 for areas created by SYSGEN
Subpool 245 and key 0 for UCM fixed extension base and UCME fixed extensions
Subpool 241 and key 0 for UCM pageable extension base and UCME pageable extensions

Size : NUCLEUS - 588 bytes and 84 bytes/console
Subpool 245 - 180 bytes and 12 bytes/console
Subpool 241 - 120 bytes and 16 bytes/console

Pointed to by : CVTCUCB field of the CVT data area (UCM base)
UCMVEA field of the UCM data area (first device entry UCM)
UCMVEL field of the UCM data area (last device entry UCM)

Serialization : Local and CMS locks

Function : The UCM base, UCM extension, UCM MCS prefix, UCM event indication list, UCM fixed extension base and the UCM pageable extension base describe the general characteristics of all consoles specified at SYSGEN; and the UCME's, UCME fixed extensions and UCME pageable extensions describe each console in detail. There is one UCME, UCME fixed extension and UCME pageable extension for each console.

UCM

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Data Area Descriptions

UCM

359

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	UCM2EXT	, START OF UCM EXTENSION
0	(0) SIGNED	2	UCMRSV84	RESERVED
2	(2) SIGNED	2	UCMRSV85	RESERVED
4	(4) V-ADDRESS	4	UCM2PST	"V(IEA0PT02)"- BRANCH ENTRY POINT INTO 'POST' ROUTINE
8	(8) ADDRESS	4	UCM2STA	POINTER TO IEAVSTAA WORK AREA (SDWA)
8	(8) HEX	1	UCM2SFLG	IEAVSTAA CONTROL FLAGS
	1... ..		UCM2SDWA	"BIT0"- SDWA OBTAINED
	.1.. ..		UCM2SENT	"BIT1"- IEAVSTAA ENTERED
	..1.		UCM2DTAK	"BIT2"- DUMP TAKEN
	...1		UCM2DSTR	"BIT3"- DUMP STARTED
	.... 1...		UCM2WTOI	"BIT4"- IEAVSTAA ABEND MESSAGE ISSUED
	.... .1..		UCM2REC	"BIT5"- RECURSIVE ENTRY OCCURRED
	.... ..1.		UCM2FAIL	"BIT6"- COMM TASK HAS FAILED DURING THIS IPL
	.... ...1		UCMRV008	"BIT7,,C'X'"- RESERVED
9	(9) ADDRESS	3	UCM2STAA	ADDRESS OF SDWA OR ZERO
12	(C) SIGNED	4	UCM2TOKN	IEAVSTAA ESTAE TOKEN
16	(10) ADDRESS	4	UCMRSV73	RESERVED
20	(14) ADDRESS	4	UCMRSV74	RESERVED
<p>MULTIPLE CONSOLE SUPPORT (MCS) UCM PREFIX MCS IS STANDARD IN OS/VS. THE MCS PREFIX IS ALWAYS PRESENT.</p>				
0	(0) STRUCTURE	0	UCMPRFX	, START OF MCS PREFIX
	.... ..		MCSUCM	"x"- ALIAS FOR START OF MCS PREFIX
0	(0) ADDRESS	4	UCMMCEN	ADDRESS OF MASTER CONSOLE UCM ENTRY
4	(4) CHARACTER	72	UCMSAVE0	RESIDENT REGISTER SAVE AREA FOR IEACVTSK

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
4	(4) SIGNED	4	UCMSVA0	WORD 1
8	(8) SIGNED	4	UCMSVB0	WORD 2
12	(C) SIGNED	4	UCMSVC0	WORD 3
16	(10) SIGNED	4	UCMSVD0	WORD 4
20	(14) SIGNED	4	UCMSVE0	WORD 5
24	(18) SIGNED	4	UCMSVF0	WORD 6
28	(1C) SIGNED	4	UCMSVG0	WORD 7
32	(20) SIGNED	4	UCMSVH0	WORD 8
36	(24) SIGNED	4	UCMSVI0	WORD 9
40	(28) SIGNED	4	UCMSVJ0	WORD 10
44	(2C) SIGNED	4	UCMSVK0	WORD 11
48	(30) SIGNED	4	UCMSVL0	WORD 12
52	(34) SIGNED	4	UCMSVM0	WORD 13
56	(38) SIGNED	4	UCMSVN0	WORD 14
60	(3C) SIGNED	4	UCMSV00	WORD 15
64	(40) SIGNED	4	UCMSVP0	WORD 16
68	(44) SIGNED	4	UCMSVQ0	WORD 17
72	(48) SIGNED	4	UCMSVR0	WORD 18
76	(4C) ADDRESS	4	UCMDOME	ADDRESS OF FIRST DOM ELEMENT
80	(50) ADDRESS	4	UCMWTOX	ZERO (0S/VS2)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
84	(54) BITSTRING	2	UCMSFLGS	SYSTEM CONTROL FLAGS
84	(54) ADDRESS	1	UCMSFLG1	BYTE 1 OF SYSTEM CONTROL FLAGS
	1... ..		UCMRSV01	"BIT0,,C'X'"- RESERVED
	.1..		UCMSYSB	"BIT1"- HARD COPY SUPPORT REQUIRED
	..1.		UCMSYSC	"BIT2"- COMMANDS TO HARD COPY
	...1		UCMSYSD	"BIT3"- CONSOLE SWITCH FOR MASTER
	.... 1...		UCMSYSE	"BIT4"- NO CONSOLES ACTIVE
	.... .1..		UCMSYSF	"BIT5"- GRAPHIC CONSOLES EXIST
	.... ..1.		UCMSYSG	"BIT6"- HARD COPY DEVICE IS SYSLOG
	.... ...1		UCMRSV35	"BIT7,,C'X'"- RESERVED
85	(55) ADDRESS	1	UCMSFLG2	BYTE 2 OF SYSTEM CONTROL FLAGS
	1... ..		UCMSYSI	"BIT0"- WQE HOUSEKEEPING REQUIRED
	.1..		UCMSYSJ	"BIT1"- HARD COPY TO BE WRITTEN
	..1.		UCMSYSK	"BIT2"- NEW CONSOLE IS COMPOSITE
	...1		UCMSYSL	"BIT3"- DEVICE BEING ACCESSED BY CONSOLE SWITCH TO SOUND CONSOLE ALARM
	.... 1...		UCMSYSM	"BIT4"- FAILING CONSOLE IS COMPOSITE
	.... .1..		UCMSYSN	"BIT5"- GRAPHIC CONSOLES ACTIVE
	.... ..1.		UCMSYSO	"BIT6"- DUMMY ATTENTION BY WTL
	.... ...1		UCMSYSP	"BIT7"- DEVICE BEING ACCESSED BY CONSOLE SWITCH TO SOUND MAIN POWER ALARM
86	(56) HEX	2	UCMOWTOR	DEFAULT VALUES FOR OLD WTO/R MACROS
88	(58) SIGNED	4	UCMCMID	CURRENT MSG IDENTIFICATION NUMBER
92	(5C) ADDRESS	4	UCMHCUCM	ADDRESS OF HARD COPY UCM ENTRY (OR ZERO)
96	(60) SIGNED	1	UCMXCT	EXTERNAL REQUEST COUNT
97	(61) ADDRESS	3	UCMUEXIT	ZERO (WAS ADDRESS OF USER EXIT DATA)
100	(64) HEX	2	UCMHRDRT	HARD COPY ROUTING CODE ASSIGNMENTS
102	(66) HEX	2	UCMRSV03	RESERVED
104	(68) HEX	24	UCMXSA	6-WORD PARAMETER LIST FOR SVC 72
104	(68) ADDRESS	4	UCM1WD	PTR TO 3RD WORD OF SVC 72 PARM LIST
108	(6C) ADDRESS	4	UCM2WD	2ND WORD OF SVC 72 PARM LIST

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
112	(70) ADDRESS	4	UCM3WD	3RD WORD OF SVC 72 PARM LIST
116	(74) ADDRESS	4	UCM4WD	4TH WORD OF SVC 72 PARM LIST
120	(78) ADDRESS	4	UCM5WD	5TH WORD OF SVC 72 PARM LIST
124	(7C) ADDRESS	4	UCM6WD	6TH WORD OF SVC 72 PARM LIST
128	(80) ADDRESS	4	UCMQRTN	ADDRESS OF ENQ ROUTINE ENTRY POINT
132	(84) SIGNED	4	UCMSWSA1	SAVE AREA FOR IEAVSWCH
136	(88) SIGNED	4	UCMSWSA2	SAVE AREA FOR IEAVSWCH
140	(8C) ADDRESS	4	UCMRSV69	RESERVED
144	(90) SIGNED	4	UCMNPECB	NIP ECB POSTED WHEN NIP ROUTINE'S HARD COPY CAN BE WRITTEN
148	(94) ADDRESS	4	UCMLOGAD	ADDRESS OF WTL BUFFER
152	(98) SIGNED	4	UCMRSV72	RESERVED
156	(9C) ADDRESS	1	UCMSDS1	SDS FLAGS
	1... ..		UCMSDS1A	"BIT0"- STCMDS TO HARDCOPY
	.1..		UCMSDS1B	"BIT1"- INCMDS TO HARDCOPY
	..1.		UCMRSV04	"BIT2,,C'X'"- RESERVED
	...1		UCMRSV05	"BIT3,,C'X'"- RESERVED
	.... 1...		UCMRSV06	"BIT4,,C'X'"- RESERVED
	.... .1..		UCMRSV07	"BIT5,,C'X'"- RESERVED
	.... ..1.		UCMRSV08	"BIT6,,C'X'"- RESERVED
	.... ...1		UCMRSV09	"BIT7,,C'X'"- RESERVED
157	(9D) HEX	1	UCMSDS2	RESERVED FOR SDS FLAGS
158	(9E) SIGNED	2	UCMRSV65	RESERVED

POINTERS TO UCM MCS PREFIX AND UCM EXTENSION
 LOCATED IMMEDIATELY PRECEDING UCM BASE SECTION

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
160	(A0) ADDRESS	4	UCM2PTR	ADDRESS OF UCM EXTENSION (OS/VS2 ONLY)
164	(A4) ADDRESS	4	UCMPRFXP	ADDRESS OF UCM MCS PREFIX
UNIT CONTROL MODULE (UCM) BASE				
0	(0) STRUCTURE	0	UCM	, START OF UCM BASE FIXED ECBS
0	(0) SIGNED	4	UCMXECB	EXTERNAL INTERRUPT ECB
4	(4) SIGNED	4	UCMAECB	ATTENTION INTERRUPT ECB
8	(8) SIGNED	4	UCMOECB	WTO/WTOR REQUEST ECB
12	(C) SIGNED	4	UCMDECB	DOM REQUEST ECB
12	(C) SIGNED	4	UCMLECB	WTL REQUEST ECB
16	(10) SIGNED	4	UCMARECB	CONSOLE RECOVERY ECB (OS/VS2)
20	(14) ADDRESS	4	UCMLSTP	ADDRESS OF EVENT INDICATION LIST (EIL) WTO/WTOR CONTROL FIELDS
24	(18) ADDRESS	4	UCMWTOQ	ADDRESS OF FIRST WQE (SYSOUT QUEUE)
28	(1C) ADDRESS	4	UCMRPYQ	ADDRESS OF FIRST ORE (REPLY-Q ELEMENT)
32	(20) HEX	13	UCMRPYI	REPLY ID ASSIGNMENT PATTERN (100 BITS)
45	(2D) SIGNED	1	UCMRQLM	I.D. ASSIGNMENT LIMIT
46	(2E) SIGNED	2	UCMWQLM	WQE BUFFER LIMIT
48	(30) FLOATING	8	UCMWQCNT	WQE COUNT FIELDS
48	(30) SIGNED	4	UCMWQRSV	RESERVED WQE COUNT
52	(34) SIGNED	4	UCMWQNR	CURRENT WQE COUNT

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
56	(38) SIGNED	2	UCMRQNR	CURRENT ORE COUNT
58	(3A) SIGNED	2	UCMRSV83	RESERVED
60	(3C) SIGNED	4	UCMWQEND	ADDRESS OF LAST WQE OR ZERO
64	(40) ADDRESS	4	UCMPXA	ADDR OF COMMUNICATIONS TASK TCB (OS/V\$2)
68	(44) BITSTRING	1	UCMPXB	
68	(44) ADDRESS	1	UCMMODE	MODE FLAGS
	1... ..		UCMCTIC	"BIT0"- COMMTASK INITIALIZATION COMPLETE
	.1.. ..		UCMRSV66	"BIT1",,C'X'"- RESERVED
	..1.		UCMTPUTA	"BIT2"- TPUTTER IS ACTIVE (OS/V\$2)
	...1		UCMRSV14	"BIT3",,C'X'"- RESERVED
	.... 1...		UCMAMFA	"BIT4"- ACCEPT 'VARY' CMD W/MSTCONS OPND FROM ANY MCS SECONDARY CONSOLE
	.... .1..		UCMOGCE	"BIT5"- ONLY GRAPHIC CONSOLES ACTIVE
	.... ..1.		UCMMCS	"BIT6"- MCS GENERATED WITH SYSTEM
	.... ...1		UCMFI\$	"BIT7"- CONTROL PROGRAM MODE (0 = OS/V\$2) (1 = OS/V\$1)
69	(45) BITSTRING	1	UCMAMRF	ACTION MESSAGE RETENTION FACILITY FLAGS
	1... ..		UCMAMRFA	"BIT0"- IF ON, THE ACTION MESSAGE RETENTION FACILITY IS ACTIVE
	.1.. ..		UCMAMRFF	"BIT1"- IF ON, THE ACTION MESSAGE RETENTION FACILITY FAILED
	..1.		UCMAMRFS	"BIT2"- IF ON, THE ACTION MESSAGE RETENTION FACILITY IS SUSPENDED
	...1		UCMAMRFR	"BIT3"- ACTION MESSAGE RETENTION FACILITY RECURSION INDICATOR
	.... 1...		UCMRSV75	"BIT4"- RESERVED
	.... .1..		UCMRSV79	"BIT5"- RESERVED
	.... ..1.		UCMRSV80	"BIT6"- RESERVED
	.... ...1		UCMRSV81	"BIT7"- RESERVED
70	(46) ADDRESS	1	UCMVRSN	VERSION LEVEL
	.... ...1		UCMSP13	"1"- VERSION LEVEL FOR OS/V\$2 JBB1326
	.... ..1.		UCMSP132	"2"- VERSION LEVEL FOR OS/V\$2 JBB1328
1.		UCMVRID	"UCMSP132"- VERSION LEVEL VALUE
71	(47) BITSTRING	1	UCMRSV76	RESERVED

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OFFSETS TYPE LENGTH NAME DESCRIPTION

THE FOLLOWING FIELDS ARE USED FOR ACCESSING UCM INDIVIDUAL
 DEVICE ENTRIES. THEY MUST BE DEFINED IN THE ORDER SHOWN.

72	(48)	CHARACTER	12	UCMVDATA	UCM ENTRY ACCESSING DATA
72	(48)	ADDRESS	4	UCMVEA	ADDRESS OF FIRST UCM ENTRY
76	(4C)	ADDRESS	4	UCMVEZ	LENGTH OF A UCM ENTRY
80	(50)	ADDRESS	4	UCMVEL	ADDRESS OF LAST UCM ENTRY

SAVE AREA FOR REFRESHABILITY ROUTINES

84	(54)	HEX	1	UCMRSV77(56)	RESERVED
140	(8C)	SIGNED	4	UCMSAVE4(16)	SAVE AREA FOR IEAVCTSK
204	(CC)	SIGNED	4	UCMR9SV	SAVE AREA FOR IEAVMWSV

THE FIELDS DEFINED FOLLOWING THIS STATEMENT ARE PRESENT
 ONLY IN VARIABLE MODE SYSTEMS (OS/VS2)

208	(D0)	FLOATING	8		DOUBLEWORD BOUNDARY ALIGNMENT
208	(D0)	ADDRESS	4	UCMMNTR	ADDRESS OF MONITOR ROUTINE
212	(D4)	SIGNED	4	UCMMNECB	ECB INDICATING MONITOR TPUTS TO DO
216	(D8)	SIGNED	4	UCMTRECB	ECB INDICATING TPUTTER SHOULD TERMINATE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
220	(DC) ADDRESS	4	UCMMQPTR	POINTER TO FIRST ELEMENT ON MONITOR QUEUE
224	(E0) ADDRESS	4	UCMMQEND	POINTER TO LAST ELEMENT ON MONITOR QUEUE
228	(E4) ADDRESS	4	UCMMQNXT	POINTER TO NEXT ELEMENT ON MONITOR QUEUE TO BE PROCESSED
232	(E8) ADDRESS	4	UCMMBPTR	POINTER TO FIRST ELEMENT ON MONITOR MESSAGE BLOCK QUEUE
236	(EC) SIGNED	1	UCMRQLM1	IPL-SPECIFIED ORE BUFFER LIMIT
237	(ED) CHARACTER	1	UCMBMPFS	HARDCOPY MESSAGE SUPPRESSION INDICATOR
238	(EE) SIGNED	2	UCMWQLM1	IPL-SPECIFIED WQE BUFFER LIMIT
240	(F0) ADDRESS	4	UCMBFEXT	ADDRESS OF UCM FIXED EXTENSION BASE
244	(F4) ADDRESS	4	UCMRP2AD	POINTER TO REPLY PROCESSOR, STAGE 2
248	(F8) SIGNED	2	UCMRSV61	RESERVED
250	(FA) SIGNED	2	UCMCTID	ASID OF COMMUNICATIONS TASK
252	(FC) ADDRESS	4	UCMMBEND	POINTER TO LAST ELEMENT ON MONITOR MESSAGE BLOCK QUEUE
256	(100) ADDRESS	4	UCMWECBH	POINTER TO START OF WQE ECB CHAIN
260	(104) ADDRESS	4	UCMWECBT	POINTER TO END OF WQE ECB CHAIN
264	(108) ADDRESS	4	UCMOECBH	POINTER TO START OF ORE ECB CHAIN
268	(10C) ADDRESS	4	UCMOECBT	POINTER TO END OF ORE ECB CHAIN
272	(110) SIGNED	4	UCMORECP	ORE CELLPOL ID
276	(114) SIGNED	4	UCMWQECP	WQE CELLPOL ID
280	(118) ADDRESS	4	UCMASCB	ASCB ADDRESS OF COMMUNICATIONS TASK
284	(11C) ADDRESS	4	UCMSWCH	ADDRESS OF CONSOLE SWITCH ROUTINE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
288	(120) ADDRESS	4	UCMFRRAD	ADDRESS OF COMMUNICATIONS TASK'S RECOVERY ROUTINE (IEAVMFRR)
292	(124) ADDRESS	4	UCMWAKUP	ADDRESS OF COMMUNICATIONS TASK'S POST ERROR RECOVERY ROUTINE (IEAVMEST, ALIAS FOR IEAVMFRR)
296	(128) ADDRESS	4	UCMJES3T	ADDRESS OF SUBSYSTEM ASCB
300	(12C) HEX	1	UCMRSV42	RESERVED
	1... ..		UCMRSV43	"BIT0,,C'X'"- RESERVED
	.1.. ..		UCMRSV44	"BIT1,,C'X'"- RESERVED
	..1.		UCMRSV45	"BIT2,,C'X'"- RESERVED
	...1		UCMRSV46	"BIT3,,C'X'"- RESERVED
	.... 1...		UCMRSV47	"BIT4,,C'X'"- RESERVED
	.... .1..		UCMRSV48	"BIT5,,C'X'"- RESERVED
	.... ..1.		UCMRSV49	"BIT6,,C'X'"- RESERVED
	.... ...1		UCMRSV50	"BIT7,,C'X'"- RESERVED
301	(12D) HEX	1	UCMRSV51	RESERVED
	1... ..		UCMRSV52	"BIT0,,C'X'"- RESERVED
	.1.. ..		UCMRSV53	"BIT1,,C'X'"- RESERVED
	..1.		UCMRSV54	"BIT2,,C'X'"- RESERVED
	...1		UCMRSV55	"BIT3,,C'X'"- RESERVED
	.... 1...		UCMRSV56	"BIT4,,C'X'"- RESERVED
	.... .1..		UCMRSV57	"BIT5,,C'X'"- RESERVED
	.... ..1.		UCMRSV58	"BIT6,,C'X'"- RESERVED
	.... ...1		UCMRSV59	"BIT7,,C'X'"- RESERVED
302	(12E) SIGNED	2	UCMAMRMX	MAXIMUM NUMBER OF AMRQ ENTRIES
304	(130) ADDRESS	4	UCMMTPLP	IEETRACE PARAMETER LIST AND SAVE AREA POINTER
308	(134) ADDRESS	4	UCMCMDQR	ADDRESS OF COMMAND QUEUER IEAVC700
312	(138) ADDRESS	4	UCMQSCAN	ADDRESS OF QUEUE SCANNER IEAVQ700
316	(13C) ADDRESS	4	UCMCMDPT	POINTER TO COMMANDS TO BE ISSUED BY COMMUNICATIONS TASK
320	(140) CHARACTER	4	UCMCBID	CONTROL BLOCK ID OF 'UCM'

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
324	(144)	ADDRESS	4 UCMMPFSN	ADDRESS OF THE MPF SCAN ROUTINE (IEAVM700)
328	(148)	ADDRESS	4 UCMINTCB	IEAVN701 TCB ADDRESS
332	(14C)	ADDRESS	4 UCMVWTCB	IEAVWAIT TCB ADDRESS
336	(150)	ADDRESS	4 UCMWQADA	IEAVH600 AUTO DATA AREA POINTER
340	(154)	SIGNED	4 UCMCQECF	CQE CELLPOOL ID
344	(158)	SIGNED	4 UCMSSIBP	POINTER TO THE LIFE OF JOB SSIB FOR COMMUNICATION TASK
348	(15C)	SIGNED	2 UCMBRDST	COUNT OF REQUESTS TO HAVE WTOS BROADCAST TO ALL SUBSYSTEMS
350	(15E)	HEX	1 UCMRSV62(18)	RESERVED

UCM EVENT INDICATION LIST (EIL)

0	(0)	STRUCTURE	0 UCMEIL	, START OF EIL
0	(0)	ADDRESS	1	LENGTH OF EIL (IN WORDS)
1	(1)	HEX	1 UCMRPYL	LAST ASSIGNED REPLY I.D.
2	(2)	SIGNED	1 UCMRTCT	ROUTE COUNT
3	(3)	HEX	1 UCMRSV15	RESERVED
4	(4)	ADDRESS	4 UCMNIPTR	ADDRESS OF NIP'S 2K WTL BUFFER
8	(8)	ADDRESS	4 UCMXECBA	ADDRESS OF EXTERNAL INTRPT ECB
12	(C)	ADDRESS	4 UCMAECBA	ADDRESS OF ATTENTION INTRPT ECB
16	(10)	ADDRESS	4 UCMOECBA	ADDRESS OF WTO/R REQUEST ECB
20	(14)	ADDRESS	4 UCMDECBA	ADDRESS OF DOM REQUEST ECB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) ADDRESS	4	UCMRECBA	ADDRESS OF CONSOLE RECOVERY ECB (ACR) (OS/VS2)

THE FOLLOWING PART OF THE EIL IS A LIST OF POINTERS TO I/O ECBs FOR EACH CONSOLE DEVICE DEFINED AT SYSGEN. FOR OS/VS2, THE LIST CONTAINS A MINIMUM OF 2 ENTRIES. THE LIST IS VARIABLE ONLY AT SYSGEN. THE LAST ENTRY HAS A HIGH-ORDER BYTE OF X'80'.

28	(1C) SIGNED	4	UCMIECBA	I/O ECB PTR LIST ENTRY MAPPING
28	(1C) CHARACTER	1	UCMIECBF	I/O ECB PTR LIST LAST ENTRY FLAG
29	(1D) ADDRESS	3	UCMIECBP	ADDR OF I/O REQUEST ECB

UCM INDIVIDUAL DEVICE ENTRY MAP (UCME)
 EACH UCM DEVICE ENTRY DEFINES SUPPORT FOR A CONSOLE UNIT SPECIFIED AT SYSGEN

0	(0) STRUCTURE	0	UCMLIST	, START OF DEVICE ENTRY
0	(0) ADDRESS	4	UCMECB	I/O COMPLETION ECB OR, FOR 2740, ADDRESS OF I/O COMPLETION ECB
	1111 11.1		UCMECBFD	"X'FD'"- UCMECB POST CODE K V COMMAND WAS ISSUED
	1111 111.		UCMECBFE	"X'FE'"- UCMECB POST CODE ROUTED COMMAND
	1111 1111		UCMECBFF	"X'FF'"- UCMECB POST CODE READY TO ROLL
4	(4) ADDRESS	4	UCMSBR	ADDRESS OF RESIDENT PROCESSOR MODULE
8	(8) ADDRESS	4	UCMDCB	ADDRESS OF DCB
12	(C) ADDRESS	4	UCMUCB	UCB NAME (DEV ADDR) OR PTR TO UCB
16	(10) CHARACTER	8	UCMNAME	PROCESSING MODULE NAME

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) BITSTRING	1	UCMSTS	STATUS FLAGS
	1... ..		UCMAF	"BIT0"- ATTENTION PENDING
	.1.. ..		UCMPF	"BIT1"- OUTPUT PENDING
	..1.		UCMBF	"BIT2"- DEVICE BUSY
	...1		UCMCF	"BIT3"- CLOSE PENDING
	.... 1...		UCMTA	"BIT4"- OPEN PENDING
	.... .1..		UCMTB	"BIT5"- DEQ APPROPRIATE OUTPUT QUEUE ENTRIES
	.... ..1.		UCMEMCLS	"BIT6"- EMERGENCY CLOSE PENDING
	.... ...1		UCMTC	"BIT7"- CONSOLE HAS INLINE WTO
25	(19) BITSTRING	1	UCMATR	ATTRIBUTE FLAGS
	1... ..		UCMOF	"BIT0"- WTO SUPPORT
	.1.. ..		UCMIF	"BIT1"- ATTENTION SUPPORT
	..1.		UCMXF	"BIT2"- EXTERNAL INTERRUPT SUPPORT
	...1		UCMUF	"BIT3"- DEVICE ACTIVE
	.... 1...		UCMLF	"BIT4"- LOAD FLAG
	.... .1..		UCMAT04	"BIT5"- DEVICE STATUS TO CHANGE
	.... ..1.		UCMRSV16	"BIT6",,C'X'"- RESERVED
	.... ...1		UCMRSV17	"BIT7",,C'X'"- RESERVED
26	(1A) SIGNED	2	UCMXA	UNIQUE ENTRY I.D.
26	(1A) CHARACTER	1	UCMID	DEVICE TYPE INDEX
27	(1B) HEX	1	UCMEDEVX	"X'01'"- 2250 DEVICE
	.... ...1		UCM2250	"X'02'"- 2260 DEVICE
	.... ..1.		UCM2260	"X'03'"- 2540/2501/2520/3505/3525 DEVICE
	.... ..11		UCM2540	"X'04'"- 2740 DEVICE
	.... .1..		UCM2740	"X'05'"- 3066 DEVICE
	.... .1.1		UCM3066	"X'06'"- 3211/1403/1443 DEVICE
	.... .11.		UCM3211	"X'07'"- 3215/3210/3213/1052 DEV
	.... .111		UCM3215	"X'08'"- 3277-1 DEVICE
	.... 1...		UCM32771	"X'09'"- 3277-2/3036/3158 DEVICE
	.... 1..1		UCM32772	"X'0A'"- 3278-1 DEVICE
	.... 1.1.		UCM32781	"X'0B'"- 3278-2 DEVICE
	.... 1.11		UCM32782	"X'0C'"- 3278-2A DEVICE
	.... 11..		UCM3782A	"X'0D'"- 3278-3 DEVICE
	.... 11.1		UCM32783	"X'0E'"- 3278-4 DEVICE
	.... 111.		UCM32784	"X'0F'"- 3279-2A DEVICE
 1111		UCM3792A	"X'10'"- 3279-2B DEVICE
	...1		UCM3792B	"X'11'"- 3279-3A DEVICE
	...1 ...1		UCM3793A	"X'12'"- 3279-3B DEVICE
	...1 .1.		UCM3793B	

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
...	...		UCM3284	"X'13'"- 3284/3286 DEVICE
...	...		UCM3792C	"X'14'"- 3279-2C DEVICE
28	(1C) ADDRESS	4	UCMXB	ADDRESS OF RDCM(GRAPHICS) OR ZERO
32	(20) HEX	2	UCMRTCD	ROUTING CODES ASSIGNED TO THIS CONSOLE
34	(22) HEX	2		RESERVED
36	(24) ADDRESS	4	UCMOUTQ	ADDRESS OF CQE QUEUE
40	(28) BITSTRING	2	UCMAUTH	COMMAND CODE AUTHORIZATION
40	(28) HEX	1	UCMAUTHA	1ST BYTE OF COMMAND CODE AUTH FLAGS
	1... ..		UCMAUTH1	"BIT0"- COMMAND GROUP 1 (SYS)
	.1.. ..		UCMAUTH2	"BIT1"- COMMAND GROUP 2 (I/O)
	..1.		UCMAUTH3	"BIT2"- COMMAND GROUP 3 (CONS)
	...1		UCMRSV19	"BIT3",,C'X'"- RESERVED
	.... 1...		UCMRSV20	"BIT4",,C'X'"- RESERVED
	.... .1..		UCMRSV21	"BIT5",,C'X'"- RESERVED
	.... ..1.		UCMRSV22	"BIT6",,C'X'"- RESERVED
	.... ...1		UCMRSV23	"BIT7",,C'X'"- RESERVED
41	(29) HEX	1	UCMAUTHB	2ND BYTE OF COMMAND CODE AUTH FLAGS
42	(2A) BITSTRING	2	UCMDISP	DISPOSITION FLAGS (2 BYTES)
42	(2A) BITSTRING	1	UCMDISP1	FIRST BYTE DISPOSITION FLAGS
	1... ..		UCMDISPA	"BIT0"- MASTER CONSOLE
	.1.. ..		UCMDISPB	"BIT1"- HARD COPY DEVICE/CONSOLE
	..1.		UCMDISPC	"BIT2"- GRAPHICS
	...1		UCMDISPD	"BIT3"- OUTPUT ONLY
	.... 1...		UCMDISPE	"BIT4"- CONSOLE HAS FULL I/O CAPABILITY
	.... .1..		UCMDISPF	"BIT5"- CONSOLE IS MESSAGE STREAM ONLY
	.... ..1.		UCMDISPG	"BIT6"- CONSOLE IS STATUS DISPLAY ONLY
	.... ...1		UCMDISPH	"BIT7"- INTEGRATED OPERATOR'S CONSOLE (OS/VS2)
43	(2B) BITSTRING	1	UCMDISP2	SECOND BYTE DISPOSITION FLAGS
	1... ..		UCMDISPI	"BIT0"- DISPLAY TIME AND JOB NAME (OS/VS2)
	.1.. ..		UCMDISPJ	"BIT1"- DISPLAY JOB NAME ONLY (OS/VS2)
	..1.		UCMDISPK	"BIT2"- SUBSYSTEM ALLOCATABLE INDICATOR
	...1		UCMDISPL	"BIT3"- CONSOLE IS DEDICATED TO A SYSTEM COMPONENT (SUBSYSTEM)
 1...		UCMDISPM	"BIT4"- CONSOLE IS TO BE CONSIDERED A

UCM

372

MVS/370 Debug Hdbk Vol 5

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UCM

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1..		UCMRV005	PSEUDO MASTER CONSOLE
1.		UCMRV006	"BIT5,,C'X'"- RESERVED
	.... ...1		UCMRV007	"BIT6,,C'X'"- RESERVED
	.... ...1		UCMRV007	"BIT7,,C'X'"- RESERVED
44	(2C) ADDRESS	4	UCMALTEN	ADDRESS OF ALTERNATE INPUT UCM ENTRY
48	(30) ADDRESS	4	UCMOAOEN	ADDRESS OF OUTPUT/ALTERNATE OUTPUT UCM ENTRY
52	(34) ADDRESS	4	UCMWLAST	ADDRESS OF LAST CQE SERVICED IN OUTPUT QUEUE
56	(38) ADDRESS	4	UCMCOMPC	ADDRESS OF OTHER DEVICE ENTRY IF THIS IS A COMPOSITE CONSOLE
60	(3C) BITSTRING	2	UCMMSG	MESSAGE FLAGS
60	(3C) BITSTRING	1	UCMMSG1	FIRST BYTE MESSAGE FLAGS
	1...		UCMMSGA	"BIT0"- 'MONITOR JOB NAMES' REQUESTED
	.1..		UCMMSGB	"BIT1"- 'MONITOR STATUS' REQUESTED
	..1.		UCMRSV70	"BIT2,,C'X'"- RESERVED
	...1		UCMMSGD	"BIT3"- RESQID REQUEST
	.... 1...		UCMRSV71	"BIT4,,C'X'"- RESERVED
	.... .1..		UCMMSGF	"BIT5"- MONITOR SESSIONS
	.... ..1.		UCMRSV26	"BIT6,,C'X'"- RESERVED
	.... ...1		UCMRSV27	"BIT7,,C'X'"- RESERVED
61	(3D) BITSTRING	1	UCMMSG2	SECOND BYTE MESSAGE FLAGS
62	(3E) HEX	1	UCMXOR	XOR MASK SET TO ZERO
63	(3F) BITSTRING	1	UCMDEV	DEVICE CONTROL FLAGS
	1...		UCMDEVA	"BIT0"- FULL SCREEN ON GRAPHICS CONSOLES
	.1..		UCMDEVB	"BIT1"- 'PREPARE' COMMAND ISSUED
	..1.		UCMDEVCC	"BIT2"- CONSOLE SWITCH INDICATOR
	...1		UCMDEV	"BIT3"- DOM ISSUED
	.... 1...		UCMDEVE	"BIT4"- I/O COMPLETE
	.... .1..		UCMDEVF	"BIT5"- DCM MODIFIED FOR DOM
1.		UCMDEVG	"BIT6"- HIO ISSUED ON THE 2740
1		UCMVHR	"BIT7"- CONSOLE I/O PATH AFFECTED (OS/VS2)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
64	(40) ADDRESS	4	UCMMLAST	ADDRESS OF LAST MINOR WQE HANDLED
68	(44) ADDRESS	4	UCMRCT	POINTER TO RCT
68	(44) HEX	1	UCMSDS5	SDS FLAGS
	1... ..		UCMSDS5A	"BIT0"- MLWTO LINE NEEDED TO KEEP WRIT- ING
	.1..		UCMSDS5B	"BIT1"- INLINE OUTPUT PENDING
	..1.		UCMSDS5C	"BIT2"- OUT-OF-LINE OUTPUT PENDING
	...1		UCMSDS5D	"BIT3"- K Q ISSUED FOR THIS CONSOLE
	.... 1...		UCMRSV30	"BIT4,,C'X'"- RESERVED
	.... .1..		UCMSDS5F	"BIT5"- FOR CRT, UCMMLAST VALID
	.... ..1.		UCMSDS5G	"BIT6"- I/O HARDWARE IN OUTPUT-ONLY STA- TUS
	.... ...1		UCMRSV31	"BIT7,,C'X'"- RESERVED
69	(45) ADDRESS	3	UCMRCTA	ADDRESS OF RCT
72	(48) ADDRESS	4	UCMFEXTP	ADDRESS OF UCME FIXED EXTENSION
76	(4C) SIGNED	4	UCMRSV64	RESERVED
	.1.1		UCMESIZE	"X-UCMLIST"- LENGTH (BYTES) OF INDIV DEVICE ENTRY
	.... ....		UCMEND	"X-UCMESIZE"- ADDR OF LAST DEVICE ENTRY

USER EXIT WORK AREA
 NOTE - THIS AREA IS NOT PART OF THE UCM. IT IS A
 MAPPING OF THE SPACE GOTTEN AND FREED BY IEAVVWTO.

0	(0) STRUCTURE	0	UCMEXIT	, START OF USER EXIT WORK AREA
0	(0) CHARACTER	128	UCMMSTXT	MESSAGE TEXT
128	(80) SIGNED	4	UCMROUTE	ROUTE CODES
132	(84) SIGNED	4	UCMDESCD	DESCRIPTOR CODES

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OFFSETS TYPE LENGTH NAME DESCRIPTION

UNIT CONTROL MODULE (UCM) FIXED EXTENSION BASE
 (PRESENT IN OS/VS2 ONLY)

0	(0) STRUCTURE	0	UCMFEXTA	, UCM FIXED EXTENSION BASE
0	(0) CHARACTER	4	UCMFUCMF	ACRONYM IN EBCDIC UCMF-
4	(4) ADDRESS	4	UCMFPPTR	ADDRESS OF UCM PAGEABLE EXTENSION BASE
8	(8) CHARACTER	8	UCMFMGFS	FLAGS FOR FIXED EXTENSION BASE
8	(8) BITSTRING	1	UCMFFLG1	MESSAGE FLAGS
	1... ..		UCMFMSG6	"BIT0"- WQE SHORTAGE MESSAGE ISSUED
	.1..		UCMFMSGA	"BIT1"- WQE CRITICAL MESSAGE ISSUED
	..1.		UCMFMSGN	"BIT2"- NO WQE THRESHOLD MESSAGES SHOULD BE ISSUED
	...1		UCMFMSG1	"BIT3"- ACTION MESSAGE RETENTION BUFFER SHORTAGE MESSAGE ISSUED
	.... 1...		UCMFMSG2	"BIT4"- ACTION MESSAGE RETENTION SEVERE BUFFER SHORTAGE MESSAGE ISSUED
	.... .1..		UCMFMSG3	"BIT5"- ACTION MESSAGE RETENTION BUFFER EXTENSION FAILED MESSAGE ISSUED
	.... ..1.		UCMFMSG4	"BIT6"- ISSUE ACTION MESSAGE RETENTION BUFFER EXTENSION FAILED MESSAGE
	.... ...1		UCMFMSG5	"BIT7"- ISSUE DOM FOR ACTION MESSAGE RETENTION BUFFER EXTENSION FAILED MESSAGE
9	(9) BITSTRING	1	UCMFFLG2	MESSAGE FLAGS
	1... ..		UCMFMSG6	"BIT0"- ACTION MESSAGE RETENTION FACILITY RESTART FAILED MESSAGE ISSUED
	.1..		UCMFMSG7	"BIT1"- MPF FAILED MESSAGE SHOULD BE ISSUED
	..1.		UCMFMSG8	"BIT2"- MPF FAILED MESSAGE HAS BEEN ISSUED
	...1		UCMFRSV7	"BIT3"- RESERVED
 1...		UCMFRSV8	"BIT4"- RESERVED
1..		UCMFRSV9	"BIT5"- RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.		UCMFRSVA	"BIT6"- RESERVED
1		UCMFRSVB	"BIT7"- RESERVED
10	(A) BITSTRING	1	UCMFFLG3	QUEUE SCANNED FLAGS FOR ACTION MESSAGE RETENTION FACILITY
	1... ..		UCMFRQSD	"BIT0"- RETAINED MESSAGE QUEUE SCANNED
	.1... ..		UCMFIQSD	"BIT1"- RETAINED IMMEDIATE ACTION MES- SAGE QUEUE SCANNED
	..1.		UCMFEQSD	"BIT2"- RETAINED EVENTUAL ACTION MESSAGE QUEUE SCANNED
	...1		UCMFRSVC	"BIT3"- RESERVED
	.... 1...		UCMFRSVD	"BIT4"- RESERVED
	.... .1..		UCMFRSVE	"BIT5"- RESERVED
	.... ..1.		UCMFRSVF	"BIT6"- RESERVED
	.... ..1		UCMFRSVG	"BIT7"- RESERVED
11	(B) BITSTRING	1	UCMFRSV1	RESERVED
12	(C) SIGNED	4	UCMFRSV2	RESERVED
16	(10) SIGNED	2	UCMF60WQ	60% OF CURRENT WQE LIMIT
18	(12) SIGNED	2	UCMF80WQ	80% OF CURRENT WQE LIMIT
20	(14) CHARACTER	8	UCMFRSV3	RESERVED
28	(1C) CHARACTER	8	UCMFECL	ECB LIST THAT IEAVMQWR WAITS ON IN A NO-CONSOLES CONDITION
28	(1C) ADDRESS	4	UCMFXECB	ADDRESS OF EXTERNAL INTERRUPT ECB
32	(20) ADDRESS	4	UCMFRECB	ADDRESS OF CONSOLE RECOVERY ECB
32	(20) BITSTRING	1	UCMFRBYT	HIGH-ORDER BYTE OF UCMFRECB
	1... ..		UCMFRB0	"BIT0"- END OF LIST INDICATOR
33	(21) ADDRESS	3	UCMFRAD	ADDRESS OF CONSOLE RECOVERY ECB
36	(24) ADDRESS	4	UCMFATCN	ADDRESS OF UCME CANDIDATE FOR NEW MASTER CONSOLE (ATTENTION WAS GENERATED ON THIS DEVICE WHEN IN A NO-CONSOLES CONDITION)
40	(28) ADDRESS	4	UCMFE1ST	ADDRESS OF FIRST UCME FIXED EXTENSION

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44	(2C) SIGNED	4	UCMFELEN	LENGTH OF A UCME FIXED EXTENSION
48	(30) ADDRESS	4	UCMFELST	ADDRESS OF LAST UCME FIXED EXTENSION
52	(34) CHARACTER	12	UCMFAMRP	POINTERS TO ACTION MESSAGE RETENTION QUEUES
52	(34) ADDRESS	4	UCMFAMRQ	POINTER TO RETAINED MESSAGE QUEUE
56	(38) ADDRESS	4	UCMFIAMQ	POINTER TO RETAINED IMMEDIATE ACTION MESSAGE QUEUE
60	(3C) ADDRESS	4	UCMFEAMQ	POINTER TO RETAINED EVENTUAL ACTION MESSAGE QUEUE
64	(40) SIGNED	4	UCMFRMCP	CELLPOOL ID OF ACTION MESSAGE RETENTION QUEUE
68	(44) SIGNED	2	UCMFAMRN	NUMBER OF AMRQ ENTRIES
70	(46) SIGNED	2	UCMF75MR	75% OF MAXIMUM AMRQ ENTRIES
72	(48) SIGNED	2	UCMF80MR	80% OF MAXIMUM AMRQ ENTRIES
74	(4A) SIGNED	2	UCMF95MR	95% OF MAXIMUM AMRQ ENTRIES
76	(4C) SIGNED	2	UCMFIBSZ	INITIAL BUFFER SIZE FOR ACTION MESSAGE RETENTION BUFFER
78	(4E) SIGNED	1	UCMFAMRS	SUBPOOL OF ACTION MESSAGE RETENTION BUFFER
79	(4F) SIGNED	1	UCMFEBSZ	EXTENT SIZE FOR ACTION MESSAGE RETENTION BUFFER
80	(50) ADDRESS	4	UCMFSAVP	ADDRESS OF 72-BYTE SAVE AREA
84	(54) ADDRESS	4	UCMFMPFP	ADDRESS OF MPF TABLE
88	(58) CHARACTER	20	UCMFRSV4	RESERVED

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OFFSETS TYPE LENGTH NAME DESCRIPTION

UNIT CONTROL MODULE (UCM) FIXED EXTENSION SAVE AREA (PRESENT IN OS/VS2 ONLY)

0	(0)	STRUCTURE	0	UCMFSAVE	, UCM FIXED EXTENSION SAVE AREA
0	(0)	SIGNED	4	UCMFSV01	WORD 1
4	(4)	SIGNED	4	UCMFSV02	WORD 2
8	(8)	SIGNED	4	UCMFSV03	WORD 3
12	(C)	SIGNED	4	UCMFSV04	WORD 4
16	(10)	SIGNED	4	UCMFSV05	WORD 5
20	(14)	SIGNED	4	UCMFSV06	WORD 6
24	(18)	SIGNED	4	UCMFSV07	WORD 7
28	(1C)	SIGNED	4	UCMFSV08	WORD 8
32	(20)	SIGNED	4	UCMFSV09	WORD 9
36	(24)	SIGNED	4	UCMFSV10	WORD 10
40	(28)	SIGNED	4	UCMFSV11	WORD 11
44	(2C)	SIGNED	4	UCMFSV12	WORD 12
48	(30)	SIGNED	4	UCMFSV13	WORD 13
52	(34)	SIGNED	4	UCMFSV14	WORD 14
56	(38)	SIGNED	4	UCMFSV15	WORD 15
60	(3C)	SIGNED	4	UCMFSV16	WORD 16

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
64	(40) SIGNED	4	UCMFSV17	WORD 17
68	(44) SIGNED .1.. 1...	4	UCMFSV18 UCMFSVLN	WORD 18 "*-UCMFSAVE"- LENGTH OF SAVE AREA
UNIT CONTROL MODULE (UCM) PAGEABLE EXTENSION BASE (PRESENT IN OS/VS2 ONLY)				
0	(0) STRUCTURE	0	UCMPEXTA	, UCM PAGEABLE EXTENSION BASE
0	(0) CHARACTER	4	UCMPUCMP	ACRONYM IN EBCDIC UCMP-
4	(4) CHARACTER	36	UCMPDM1	DOM ID'S
4	(4) SIGNED	4	UCMPWQE	WQE CRITICAL MESSAGE DOM ID
8	(8) SIGNED	4	UCMPNMCC	NO MASTER CONSOLE CONDITION MESSAGE DOM ID
12	(C) SIGNED	4	UCMPNCC	NO-CONSOLE CONDITION MESSAGE DOM ID
16	(10) SIGNED	4	UCMPWQES	WQE SHORTAGE MESSAGE DOM ID
20	(14) SIGNED	4	UCMPAMRS	ACTION MESSAGE RETENTION BUFFER SHORTAGE MESSAGE DOM ID
24	(18) SIGNED	4	UCMPAMRC	ACTION MESSAGE RETENTION SEVERE BUFFER SHORTAGE MESSAGE DOM ID
28	(1C) SIGNED	4	UCMPAMRF	ACTION MESSAGE RETENTION BUFFER EXTENSION FAILED MESSAGE DOM ID
32	(20) SIGNED	4	UCMPAMRR	ACTION MESSAGE RETENTION FACILITY RESTART FAILED MESSAGE DOM ID
36	(24) SIGNED	4	UCMPMPFD	MPF FAILED MESSAGE DOM ID

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
40	(28) CHARACTER	8	UCMPNJSR	EBCDIC NAME OF JES3 SUBSYSTEM CONSOLE SERVICE ROUTINE
48	(30) ADDRESS	4	UCMPE1ST	ADDRESS OF FIRST UCME PAGEABLE EXTENSION
52	(34) SIGNED	4	UCMPELEN	LENGTH OF A UCME PAGEABLE EXTENSION
56	(38) ADDRESS	4	UCMPELST	ADDRESS OF LAST UCME PAGEABLE EXTENSION
60	(3C) CHARACTER	4	UCMPRSV9	RESERVED
64	(40) ADDRESS	4	UCMPECB1	TASK ECB FOR IEAVMQWR
68	(44) ADDRESS	4	UCMPECB2	TASK ECB FOR IEEVWAIT

STATUS FIELDS FOR THE ACTION MESSAGE RETENTION FACILITY AT THE TIME OF ERROR

72	(48) CHARACTER	12	UCMPAMRP	POINTERS TO ACTION MESSAGE RETENTION FACILITY QUEUES AT TIME OF ERROR
72	(48) ADDRESS	4	UCMPAMRQ	POINTER TO RETAINED MESSAGE QUEUE AT TIME OF ERROR
76	(4C) ADDRESS	4	UCMPIAMQ	POINTER TO RETAINED IMMEDIATE ACTION MESSAGE QUEUE AT TIME OF ERROR
80	(50) ADDRESS	4	UCMPEAMQ	POINTER TO RETAINED EVENTUAL ACTION MESSAGE QUEUE AT TIME OF ERROR
84	(54) SIGNED	2	UCMPAMRN	NUMBER OF RETAINED MESSAGES AT TIME OF ERROR
86	(56) BITSTRING	1	UCMPSNQB	QUEUE SCANNED FLAGS FOR ACTION MESSAGE RETENTION FACILITY AT TIME OF ERROR
	1... ..		UCMPRQSD	"BIT0"- RETAINED MESSAGE QUEUE WAS SCANNED AT TIME OF ERROR
	.1.. ..		UCMPIQSD	"BIT1"- RETAINED IMMEDIATE ACTION MES-

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		UCMPEQSD	SAGE QUEUE WAS SCANNED AT TIME OF ERROR "BIT2"- RETAINED EVENTUAL ACTION MESSAGE
	...1		UCMPRSV1	QUEUE WAS SCANNED AT TIME OF ERROR "BIT3"- RESERVED
	.... 1...		UCMPRSV4	"BIT4"- RESERVED
	.... .1..		UCMPRSV5	"BIT5"- RESERVED
	.... ..1.		UCMPRSV6	"BIT6"- RESERVED
	.... ...1		UCMPRSV7	"BIT7"- RESERVED
87	(57) BITSTRING	1	UCMPRSV8	RESERVED
88	(58) ADDRESS	4	UCMPQWRR	IEAVMQWR'S RETURN ADDR
92	(5C) ADDRESS	4	UCMPSWRK	POINTER TO IEAVSTAA'S WORKAREA
96	(60) BITSTRING 1...	1	UCMPFLG1 UCMPWERA	MISCELLANEOUS FLAGS "BIT0" COMMTASK IEEVWAIT EXTERNAL RESTART ATTEMPTED
97	(61) CHARACTER	3	UCMPRSV3	RESERVED
100	(64) CHARACTER	20	UCMPRS01	RESERVED

INDIVIDUAL DEVICE ENTRY (UCME) FIXED EXTENSION
 (PRESENT IN OS/V52 ONLY)

0	(0) STRUCTURE	0	UCMEFEXT	, UCME FIXED EXTENSION
0	(0) BITSTRING 1...	1	UCMEFLG1 UCMEFLGA	FLAGS FOR UCME FIXED EXTENSION "BIT0"- IF 1, ATTENTION INDEX IN UCME- FATT IS VALID
	.1..		UCMEFLGB	"BIT1"- IF 1, UCBSYSR FOR THIS DEVICE WAS FORCED TO 1 AND SHOULD BE RESTORED TO 0
	..1.		UCMEFLGC	"BIT2,,C'X'"- RESERVED
	...1		UCMEFLGD	"BIT3,,C'X'"- RESERVED
	.... 1...		UCMEFLGE	"BIT4,,C'X'"- RESERVED
1..		UCMEFLGF	"BIT5,,C'X'"- RESERVED
1.		UCMEFLGG	"BIT6,,C'X'"- RESERVED
1		UCMEFLGH	"BIT7,,C'X'"- RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1	(1) BITSTRING	1	UCMEFLG2	RESERVED
2	(2) SIGNED	1	UCMEFATT	ATTENTION INDEX. VALID ONLY IF UCMEFLGA IS 1.
3	(3) SIGNED	1	UCMEFSA1	ATTENTION INDEX SAVED BY 1052 DEVICE SERVICE PROCESSOR
4	(4) ADDRESS	4	UCMEFPEX	ADDRESS OF UCME PAGEABLE EXTENSION
8	(8) SIGNED	1	UCMEFSA2	ATTENTION INDEX SAVED BY SUBSYS
9	(9) ADDRESS	3	UCMEFRV1	RESERVED
	.... 11..		UCMEFLEN	"*-UCMEFEXT"- LENGTH OF A UCME FIXED EXTENSION

INDIVIDUAL DEVICE ENTRY (UCME) PAGEABLE EXTENSION
 (PRESENT IN OS/VS2 ONLY)

0	(0) STRUCTURE	0	UCMEPEXT	, UCME PAGEABLE EXTENSION
0	(0) CHARACTER	8	UCMEPNME	NAME OF THE SYSTEM COMPONENT WHICH IS USING THIS CONSOLE
8	(8) SIGNED	2	UCMEPAID	ASID OF THE SYSTEM COMPONENT WHICH IS USING THIS CONSOLE
10	(A) BITSTRING	2	UCMEPAUT	COPY OF UCMAUTH AT THE TIME THAT THE CONSOLE WAS OBTAINED BY A SYSTEM COMPONENT (SUBSYSTEM)
12	(C) BITSTRING 1... ..	1	UCMEPFG1 UCMEPJ3C	UCME PAGEABLE EXTENSION FLAG BYTE 1 "BIT0" A JES3 CONSOLE HAS BEEN ASSOCIATED WITH THIS CONSOLE THROUGH THE SUBSYSTEM CONSOLE SERVICE ROUTINE
13	(D) BITSTRING	1	UCMEPFG2	RESERVED FLAG BYTE 2
14	(E) BITSTRING	1	UCMEPFG3	RESERVED FLAG BYTE 3
15	(F) BITSTRING ...1	1	UCMEPFG4 UCMEPLEN	RESERVED FLAG BYTE 4 "*-UCMEPEXT"- LENGTH OF A UCME PAGEABLE EXTENSION

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MCSUCM	0	00	UCMDEVA	3F	80	UCMEFLGH	0	01
UCM	0		UCMDEVB	3F	40	UCMEFLG1	0	
UCMAECB	4		UCMDEV C	3F		UCMEFLG2	1	
UCMAECBA	C		UCMDEVCC	3F	20	UCMEFPEX	4	
UCMAF	18	80	UCMDEV D	3F	10	UCMEFRV1	9	
UCMALTEN	2C		UCMDEVE	3F	08	UCMEFSA1	3	
UCMAMFA	44	08	UCMDEV F	3F	04	UCMEFSA2	8	
UCMAMRF	45		UCMDEVG	3F	02	UCMEIL	0	
UCMAMRFA	45	80	UCMDISP	2A		UCMEMCLS	18	02
UCMAMRFF	45	40	UCMDISPA	2A	80	UCMEND	4C	00
UCMAMRFR	45	10	UCMDISPB	2A	40	UCMEPAID	8	
UCMAMRFS	45	20	UCMDISPC	2A	20	UCMEPAUT	A	
UCMAMRMX	12E		UCMDISPD	2A	10	UCMEPEXT	0	
UCMARECB	10		UCMDISPE	2A	08	UCMEPGF1	C	
UCMASC B	118		UCMDISPF	2A	04	UCMEPGF2	D	
UCMATR	19		UCMDISPG	2A	02	UCMEPGF3	E	
UCMAT04	19	04	UCMDISPH	2A	01	UCMEPGF4	F	
UCMAUTH	28		UCMDISPI	2B	80	UCMEPJ3C	C	80
UCMAUTHA	28		UCMDISPJ	2B	40	UCMEPLEN	F	10
UCMAUTHB	29		UCMDISPK	2B	20	UCMEPNME	0	
UCMAUTH1	28	80	UCMDISPL	2B	10	UCMESIZE	4C	50
UCMAUTH2	28	40	UCMDISPM	2B	08	UCMEXIT	0	
UCMAUTH3	28	20	UCMDISP1	2A		UCMFAMRN	44	
UCMBF	18	20	UCMDISP2	2B		UCMFAMRP	34	
UCMBFEXT	F0		UCMDOME	4C		UCMFAMRQ	34	
UCMBMPFS	ED		UCMECB	0		UCMFAMRS	4E	
UCMBRDST	15C		UCMECBFD	0	FD	UCMFATCN	24	
UCMCBID	140		UCMECBFE	0	FE	UCMFEAMQ	3C	
UCMCF	18	10	UCMECBFF	0	FF	UCMFEB SZ	4F	
UCMCM DPT	13C		UCMEDEVX	1B		UCMFECBL	1C	
UCMCM DQR	134		UCMEFATT	2		UCMFELEN	2C	
UCMCMID	58		UCMEFEXT	0		UCMFELST	30	
UCMCOMPC	38		UCMEFLEN	9	0C	UCMFEQSD	A	20
UCMCQECP	154		UCMEFLGA	0	80	UCMFEXTA	0	
UCMCTIC	44	80	UCMEFLGB	0	40	UCMFEXTP	48	
UCMCTID	FA		UCMEFLGC	0	20	UCMFE1ST	28	
UCMDCB	8		UCMEFLGD	0	10	UCMFFLG1	8	
UCMDECB	C		UCMEFLGE	0	08	UCMFFLG2	9	
UCMDECB A	14		UCMEFLGF	0	04	UCMFFLG3	A	
UCMDESCD	84		UCMEFLGG	0	02	UCMFIAMQ	38	

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
UCMFIBSZ	4C		UCMFSV02	4		UCMMLAST	40	
UCMFIQSD	A	40	UCMFSV03	8		UCMMNECB	D4	
UCMFIQSD	A	40	UCMFSV04	C		UCMMNTR	D0	
UCMFIQSD	A	40	UCMFSV05	10		UCMMODE	44	
UCMFIQSD	A	40	UCMFSV06	14		UCMMPFSN	144	
UCMFIQSD	A	40	UCMFSV07	18		UCMMQEND	E0	
UCMFIQSD	A	40	UCMFSV08	1C		UCMMQNXT	E4	
UCMFIQSD	A	40	UCMFSV09	20		UCMMQPTR	DC	
UCMFIQSD	A	40	UCMFSV10	24		UCMMSG	3C	
UCMFIQSD	A	40	UCMFSV11	28		UCMMSGA	3C	80
UCMFIQSD	A	40	UCMFSV12	2C		UCMMSGB	3C	40
UCMFIQSD	A	40	UCMFSV13	30		UCMMSGD	3C	10
UCMFIQSD	A	40	UCMFSV14	34		UCMMSGF	3C	04
UCMFIQSD	A	40	UCMFSV15	38		UCMMSG1	3C	
UCMFIQSD	A	40	UCMFSV16	3C		UCMMSG2	3D	
UCMFIQSD	A	40	UCMFSV17	40		UCMMSTXT	0	
UCMFIQSD	A	40	UCMFSV18	44		UCMMTPLP	130	
UCMFIQSD	A	40	UCMFUCMF	0		UCMNAME	10	
UCMFIQSD	A	40	UCMFXECB	1C		UCMNIPTR	4	
UCMFIQSD	A	40	UCMF60WQ	10		UCMNPECB	90	
UCMFIQSD	A	40	UCMF75MR	46		UCMOADEN	30	
UCMFIQSD	A	40	UCMF80MR	48		UCMOECB	8	
UCMFIQSD	A	40	UCMF80WQ	12		UCMOECBA	10	
UCMFIQSD	A	40	UCMF95MR	4A		UCMOECBH	108	
UCMFIQSD	A	40	UCMHCUCM	5C		UCMOECBT	10C	
UCMFIQSD	A	40	UCMHRDRT	64		UCMOF	19	80
UCMFIQSD	A	40	UCMID	1A		UCMOGCE	44	04
UCMFIQSD	A	40	UCMIECBA	1C		UCMORECP	110	
UCMFIQSD	A	40	UCMIECBF	1C		UCMOUTQ	24	
UCMFIQSD	A	40	UCMIECBP	1D		UCMOWTOR	56	
UCMFIQSD	A	40	UCMIF	19	40	UCMPAMRC	18	
UCMFIQSD	A	40	UCMINTCB	148		UCMPAMRF	1C	
UCMFIQSD	A	40	UCMJES3T	128		UCMPAMRN	54	
UCMFIQSD	A	40	UCMLECB	C		UCMPAMRP	48	
UCMFIQSD	A	40	UCMLF	19	08	UCMPAMRQ	48	
UCMFIQSD	A	40	UCMLIST	0		UCMPAMRR	20	
UCMFIQSD	A	40	UCMLOGAD	94		UCMPAMRS	14	
UCMFIQSD	A	40	UCMLSTP	14		UCMPDM1	4	
UCMFIQSD	A	40	UCMMBEND	FC		UCMPEAMQ	50	
UCMFIQSD	A	40	UCMMBPTR	E8		UCMPECB1	40	
UCMFIQSD	A	40	UCMMCENT	0		UCMPECB2	44	
UCMFIQSD	A	40	UCMMCS	44	02	UCMPELEN	34	

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
UCMPELST	38		UCMRP2AD	F4		UCMRSV58	12D	02
UCMPEQSD	56	20	UCMRQLM	2D		UCMRSV59	12D	01
UCMPEXTA	0		UCMRQLM1	EC		UCMRSV61	F8	
UCMPE1ST	30		UCMRQNR	38		UCMRSV62	15E	
UCMPF	18	40	UCMRSV01	54	80	UCMRSV64	4C	
UCMPFLG1	60		UCMRSV03	66		UCMRSV65	9E	
UCMPIAMQ	4C		UCMRSV04	9C	20	UCMRSV66	44	40
UCMPIQSD	56	40	UCMRSV05	9C	10	UCMRSV69	8C	
UCMPMPFD	24		UCMRSV06	9C	08	UCMRSV70	3C	20
UCMPNCC	C		UCMRSV07	9C	04	UCMRSV71	3C	08
UCMPNJSR	28		UCMRSV08	9C	02	UCMRSV72	98	
UCMPNMCC	8		UCMRSV09	9C	01	UCMRSV73	10	
UCMPQWRR	58		UCMRSV14	44	10	UCMRSV74	14	
UCMPRFX	0		UCMRSV15	3		UCMRSV75	45	08
UCMPRFXP	A4		UCMRSV16	19	02	UCMRSV76	47	
UCMPRQSD	56	80	UCMRSV17	19	01	UCMRSV77	54	
UCMPRSV1	56	10	UCMRSV19	28	10	UCMRSV79	45	04
UCMPRSV3	61		UCMRSV20	28	08	UCMRSV80	45	02
UCMPRSV4	56	08	UCMRSV21	28	04	UCMRSV81	45	01
UCMPRSV5	56	04	UCMRSV22	28	02	UCMRSV83	3A	
UCMPRSV6	56	02	UCMRSV23	28	01	UCMRSV84	0	
UCMPRSV7	56	01	UCMRSV26	3C	02	UCMRSV85	2	
UCMPRSV8	57		UCMRSV27	3C	01	UCMRTCD	20	
UCMPRSV9	3C		UCMRSV30	44	08	UCMRTCT	2	
UCMPRS01	64		UCMRSV31	44	01	UCMRV005	2B	04
UCMPSNQB	56		UCMRSV35	54	01	UCMRV006	2B	02
UCMPSWRK	5C		UCMRSV42	12C		UCMRV007	2B	01
UCMPUCMP	0		UCMRSV43	12C	80	UCMRV008	8	01
UCMPWERA	60	80	UCMRSV44	12C	40	UCMR9SV	CC	
UCMPWQE	4		UCMRSV45	12C	20	UCMSAVE0	4	
UCMPWQES	10		UCMRSV46	12C	10	UCMSAVE4	8C	
UCMPXA	40		UCMRSV47	12C	08	UCMSBR	4	
UCMPXB	44		UCMRSV48	12C	04	UCMSDS1	9C	
UCMQRTN	80		UCMRSV49	12C	02	UCMSDS1A	9C	80
UCMQSCAN	138		UCMRSV50	12C	01	UCMSDS1B	9C	40
UCMRCT	44		UCMRSV51	12D		UCMSDS2	9D	
UCMRCTA	45		UCMRSV52	12D	80	UCMSDS5	44	
UCMRECBA	18		UCMRSV53	12D	40	UCMSDS5A	44	80
UCMROUTC	80		UCMRSV54	12D	20	UCMSDS5B	44	40
UCMRPYI	20		UCMRSV55	12D	10	UCMSDS5C	44	20
UCMRPYL	1		UCMRSV56	12D	08	UCMSDS5D	44	10
UCMRPYQ	1C		UCMRSV57	12D	04	UCMSDS5F	44	04

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
UCMSDS5G	44	02	UCMSYSO	55	02	UCM1WD	68	
UCMSFLGS	54		UCMSYSP	55	01	UCM2DSTR	8	10
UCMSFLG1	54		UCMTA	18	08	UCM2DTAK	8	20
UCMSFLG2	55		UCMTB	18	04	UCM2EXT	0	
UCMSP13	46	01	UCMTC	18	01	UCM2FAIL	8	02
UCMSP132	46	02	UCMTPUTA	44	20	UCM2PST	4	
UCMSSIBP	158		UCMTRECB	D8		UCM2PTR	A0	
UCMSTS	18		UCMUCB	C		UCM2REC	8	04
UCMSVA0	4		UCMUEXIT	61		UCM2SDWA	8	80
UCMSVB0	8		UCMUF	19	10	UCM2SENT	8	40
UCMSVC0	C		UCMVDATA	48		UCM2SFLG	8	
UCMSVD0	10		UCMVEA	48		UCM2STA	8	
UCMSVE0	14		UCMVEL	50		UCM2STAA	9	
UCMSVF0	18		UCMVEZ	4C		UCM2TOKN	C	
UCMSVG0	1C		UCMVHRSN	3F	01	UCM2WD	6C	
UCMSVH0	20		UCMVRID	46	02	UCM2WTOI	8	08
UCMSVIO	24		UCMVRSN	46		UCM2250	1B	01
UCMSVJO	28		UCMVWTCB	14C		UCM2260	1B	02
UCMSVK0	2C		UCMWAKUP	124		UCM2540	1B	03
UCMSVL0	30		UCMWECBH	100		UCM2740	1B	04
UCMSVM0	34		UCMWECBT	104		UCM3WD	70	
UCMSVNO	38		UCMWLAST	34		UCM3066	1B	05
UCMSV00	3C		UCMWQADA	150		UCM3211	1B	06
UCMSVP0	40		UCMWQCNT	30		UCM3215	1B	07
UCMSVQ0	44		UCMWQECP	114		UCM32771	1B	08
UCMSVR0	48		UCMWQEND	3C		UCM32772	1B	09
UCMSWCH	11C		UCMWQLM	2E		UCM32781	1B	0A
UCMSWSA1	84		UCMWQLM1	EE		UCM32782	1B	0B
UCMSWSA2	88		UCMWQNR	34		UCM32783	1B	0D
UCMSYSB	54	40	UCMWQRSV	30		UCM32784	1B	0E
UCMSYSC	54	20	UCMWTOQ	18		UCM3284	1B	13
UCMSYSD	54	10	UCMWTOX	50		UCM3782A	1B	0C
UCMSYSE	54	08	UCMXA	1A		UCM3792A	1B	0F
UCMSYSF	54	04	UCMXB	1C		UCM3792B	1B	10
UCMSYSG	54	02	UCMXCT	60		UCM3792C	1B	14
UCMSYSI	55	80	UCMXECB	0		UCM3793A	1B	11
UCMSYSJ	55	40	UCMXECBA	8		UCM3793B	1B	12
UCMSYSK	55	20	UCMXF	19	20	UCM4WD	74	
UCMSYSL	55	10	UCMXOR	3E		UCM5WD	78	
UCMSYSM	55	08	UCMXSA	68		UCM6WD	7C	
UCMSYSN	55	04						

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UPT

Common Name : TSO User Profile Table
 Macro ID : IKJUPT
 DSECT Name : UPT
 Created by : IKJEFLA
 Subpool and Key : Subpool 0 and key 8
 Size : 24 bytes
 Pointed to by : CPPLUPT field of the CPPL data area
 Serialization :
 Function : Contains information stored in UADS, used by LOGON/LOGOFF,
 TMP, and CPs.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	UPT	
0	(0) SIGNED	4		
0	(0) CHARACTER	2		RESERVED
2	(2) CHARACTER	10	UPTUSER	RESERVED FOR INSTALLATION USE
12	(C) HEX	1	UPTSWS	USERS ENVIRONMENT SWITCHES
	1... ..		UPTRCVR	"X'80'" EDIT RECOVER OPTION IS REQUESTED DEFLT
	.1... ..		UPTNPRM	"X'40'" NO PROMPTING IS TO BE DONE
	..1.		UPTMID	"X'20'" PRINT MESSAGE IDENTIFIERS
	...1		UPTNCOM	"X'10'" NO USER COMMUNICATION ALLOWED VIA SEND COMMAND
	.... 1...		UPTPAUS	"X'08'" PAUSE FOR '?' WHEN IN NON-INTERACTIVE MODE
	.... .1..		UPTALD	"X'04'" ATTN HAS BEEN SPECIFIED AS LINE DELETE CHAR
	.... ..1.		UPTMODE	"X'02'" MODE MESSAGES DESIRED
	.... ...1		UPTWTP	"X'01'" WRITE TO PROGRAMMER MESSAGES DESIRED
13	(D) CHARACTER	1	UPTCDEL	CHAR DELETE CHARACTER
14	(E) CHARACTER	1	UPTLDEL	LINE DELETE CHARACTER
15	(F) CHARACTER	1		RESERVED

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
16	(10) CHARACTER	7	UPTPREFIX	DSNAME PREFIX
23	(17) BITSTRING	1	UPTPREFL	LENGTH OF DSNAME PREFIX

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VFCB

Common Name : Virtual Fetch Control Block
 Macro ID : IHAVFCB
 DSECT Name : VFCB
 Created by : CSVVFCRE
 Subpool and Key : Subpool 241 and key 0
 Size : 32 bytes
 Pointed to by : CVTVFCB
 Serialization : Compare and Swap
 Function : Contains information concerning status of Virtual Fetch, the
 address of the Virtual Fetch hash table and the Virtual Fetch ECB.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	32	VFCB	Virtual Fetch Control Block
0	(0) CHARACTER	4	VFCBID	Control block ID ("VFCB")
4	(4) ADDRESS	4	VFCBASCB	Address of Virtual Fetch address space ASCB
8	(8) CHARACTER	8	VFCBRESH	Refresh number of this Virtual Fetch in TIMER units
8	(8) SIGNED	4	VFCBRSH1	First half of refresh value
12	(C) SIGNED	4	VFCBRSH2	Second half of refresh value
16	(10) ADDRESS	4	VFCBHSHP	Address of hash table
20	(14) UNSIGNED	4	VFCBHSHV	Hash algorithm divisor
24	(18) SIGNED	4	VFCBECB	Refresh ECB
28	(1C) UNSIGNED	1	VFCBLVEL	Level number of this VFCB (currently level=0)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
29	(1D) UNSIGNED	1	VFCBFLAG	Flag byte
	1... ..		VFCBUILT	Virtual Fetch has been built and is fully operational. (turned on after the VFCB is set up, and just before entering WAIT processing. It is initially off, and will be turned off before updating the VFCB, and whenever the ESTAE is entered).
	.1... ..		VFCBRES2	Reserved flag
	..1.		VFCBRES3	Reserved flag
	...1		VFCBRES4	Reserved flag
	.... 1...		VFCBRES5	Reserved flag
	.... .1..		VFCBRES6	Reserved flag
1.		VFCBRES7	Reserved flag
1		VFCBRES8	Reserved flag
30	(1E) CHARACTER	2	VFCBRES9	Reserved half word

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VRAMAP

Common Name : Variable Recording Area Mapping Macro
 Macro ID : IHAVRA
 DSECT Name : VRAMAP
 Created by : Variable
 Subpool and Key : Variable
 Size : Variable
 Pointed to by : Variable
 Serialization : Variable
 Function : Provides a key, length, data mapping that can be used to structure the contents of an area with variable length service data, such as the SDWA variable recording area (SDWAVRA). (Users of the SDWAVRA turn on the SDWAVRAM bit to indicate the SDWAVRA is in key, length, data format.)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	VRAMAP	
0	(0) SIGNED	2	VRAKL	USE THIS LABEL TO OBTAIN THE LENGTH OF THE NEXT TWO FIELDS.
0	(0) SIGNED	1	VRAKEY	KEY TO IDENTIFY THE DATA THAT FOLLOWS. THE POSSIBLE VALUES FOR THIS FIELD ARE GIVEN AS CONSTANTS THAT FOLLOW THE VRA-MAP DECLARE.
1	(1) SIGNED	1	VRALEN	LENGTH OF THE DATA THAT FOLLOWS. THE CONSTANTS FOR VRAKEY INDICATE SOME RECOMMENDED LENGTHS.
2	(2) SIGNED	1	VRADAT	VARIABLE LENGTH DATA. THIS DATA IS FOLLOWED BY ADDITIONAL KEY, LENGTH, AND DATA FIELDS UNTIL ALL USER DATA IS SUPPLIED.
....	...1.		VRALENKL	"VRADAT-VRAKL" LENGTH OF THE VRAKL FIELD (VRAKEY AND VRALEN), FOR USE IN UPDATING THE POINTER TO THE NEXT FIELD IN THE RECORDING AREA.

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OFFSETS TYPE LENGTH NAME DESCRIPTION

THE FOLLOWING CONSTANTS GIVE THE VALUES THAT ARE SUPPORTED FOR VRAKEY FIELDS.
 THE MEANINGS OF KEYS 200 ('C8'X) TO 224 ('E0'X) MAY BE ASSIGNED BY EACH RECOVERY ROUTINE. THE MEANINGS OF THE OTHER KEYS ARE ASSIGNED BY THE OWNER OF THE IHAVRA MACRO.
 A KEY CAN BE REPEATED IN THE VARIABLE RECORDING AREA, IN ORDER TO SUPPLY SEVERAL FOOTPRINT AREAS, ETC.
 THE SDWACID, SDWASC, SDWAMLVL, SDWACRC, AND SDWARRL FIELDS SHOULD BE USED INSTEAD OF THE VRACOM, VRASC, VRALVL, VRARC, AND VRARRL KEYS FOR OS/VS2 JBB1226 LEVEL MODULES.

.... .1	VRACOM	"1" THE VRADAT DATA IS THE 5-BYTE EBCDIC COMPONENT ID (SUCH AS SC1CR). USE THE SDWACID FIELD INSTEAD OF THIS KEY. SEE THE ABOVE NOTE.
.... .1.	VRASC	"2" THE DATA IS EBCDIC TEXT TO IDENTIFY THE SUBCOMPONENT OR SUBFUNCTION THAT FAILED (SUCH AS RSM-PGFIX)
.... .11	VRALVL	"3" THE DATA IS THE EBCDIC LEVEL FOR THE FAILING MODULE, IN COMPILEDATBBPTF--OR SU OR PRODUCT NUMBER--FORMAT (SUCH AS 78.256 UZ86400), AS PRODUCED BY THE PLS ID MACRO ON A PLS PROCEDURE STATEMENT OR BY THE BAL MODID MACRO
.... .1..	VRADT	"4" THE DATA IS THE EBCDIC ASSEMBLY DATE FOR THE FAILING MODULE, IN YY.DDD OR MM/DD/YY FORMAT, IF NOT SUPPLIED VIA VRALVL
.... .1.1	VRAPTF	"5" THE DATA IS THE 7-BYTE EBCDIC PTF, SU, OR PRODUCT NUMBER FOR THE FAILING MODULE, (SUCH AS UZ86400), IF NOT SUPPLIED VIA VRALVL
.... .11.	VRARC	"6" THE DATA IS A HEXADECIMAL RETURN OR REASON CODE OR OTHER CODE FOR THE FAILURE. (SUPPLY THIS EVEN IF GIVEN IN REG-

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				ISTER 15.)
....	.111		VRAQVOD	"7" THE DATA IS THE REGISTER 15 AND ERROR PORTIONS OF THE QUEUE VERIFIER OUTPUT DATA, AS MAPPED BY THE IHAQVOD MACRO
...1	....		VRARRP	"16" ('10'X) THE DATA IS THE HEXADECIMAL RECOVERY ROUTINE PARAMETER AREA, WITH 24 BYTE MAXIMUM LENGTH IF FRR
...1	...1		VRACBM	"17" ('11'X) THE DATA IS THE MAPPING MACRO NAME FOR THE CONTROL BLOCK IN THE NEXT DATA FIELD (SUCH AS IKJTCB)
...1	..1.		VRACB	"18" ('12'X) THE DATA IS THE HEXADECIMAL CONTENTS OF A CONTROL BLOCK OR A PORTION OF A CONTROL BLOCK.
...1	..11		VRACBF	"19" ('13'X) THE DATA IS THE NAME OF A CONTROL BLOCK FIELD. IT IS PRECEDED BY THE MAPPING MACRO NAME (SEE VRACBM) AND IT IS FOLLOWED BY THE VRACB KEY AND DATA, WHICH CAN BE A SINGLE CONTROL BLOCK FIELD OR A SECTION OF A CONTROL BLOCK, STARTING WITH THIS FIELD.
...1	.1..		VRACBA	"20" ('14'X) THE DATA IS THE ADDRESS OF A CONTROL BLOCK (WHICH MAY BE IDENTIFIED BY VRACBM DATA).
...1	.1.1		VRACBO	"21" ('15'X) THE DATA IS THE OFFSET OF A CONTROL BLOCK FIELD. IT IS PRECEDED BY THE MAPPING MACRO NAME (SEE VRACBM) AND IT IS FOLLOWED BY THE VRACB KEY AND DATA, WHICH CAN BE A SINGLE FIELD OR A SECTION OF A CONTROL BLOCK, STARTING AT THIS OFFSET. (THE VRACBO KEY IS USEFUL IF THE VRACBF DATA TAKES UP TOO MUCH VRA SPACE.)
..1.	....		VRAPLI	"32" ('20'X) THE DATA IS EBCDIC TEXT TO IDENTIFY THE PARAMETER LIST IN THE NEXT DATA FIELD
..1.	...1		VRAPL	"33" ('21'X) THE DATA IS THE HEXADECIMAL CONTENTS OF A PARAMETER LIST
..1.	..1.		VRAFPI	"34" ('22'X) THE DATA IS EBCDIC TEXT TO IDENTIFY THE FOOTPRINT AREA DATA IN THE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				NEXT DATA FIELD
..1. .11			VRAFP	"35" ('23'X) THE DATA IS THE HEXADECIMAL CONTENTS OF A FOOTPRINT AREA
..1. .1..			VRAPA	"36" ('24'X) THE DATA DESCRIBES THE EXECUTION PATH UP TO THE TIME OF THE ERROR. IT CONSISTS OF FOUR (EBCDIC) CHARACTERS TO IDENTIFY EACH SUBROUTINE OR MODULE THAT WAS INVOKED. THE FOUR RIGHTMOST CHARACTERS IDENTIFY THE LAST ROUTINE THAT WAS INVOKED.
..1. .1.1			VRAP2	"37" ('25'X) THE DATA DESCRIBES THE EXECUTION PATH IN THE SAME FORMAT AS THE VRAPA KEY, BUT THE ID IS TWO CHARACTERS, NOT FOUR
..1. .11.			VRALK	"38" ('26'X) THE DATA IS THE EBCDIC NAME OF A LOCK THAT IS HELD
..1. .111			VRAWAI	"39" ('27'X) THE DATA IS EBCDIC TEXT TO IDENTIFY THE WORK AREA IN THE NEXT DATA FIELD
..1. 1...			VRAWA	"40" ('28'X) THE DATA IS THE HEXADECIMAL CONTENTS OF A WORK AREA THAT HAS NO MAPPING MACRO
..1. 1..1			VRAWAP	"41" ('29'X) THE DATA IS THE ADDRESS OF A WORK AREA (WHICH MAY BE IDENTIFIED BY VRAWAI DATA)
..11			VRALBL	"48" ('30'X) THE DATA IS THE EBCDIC LABEL OF THE SECTION OF THE MODULE THAT FAILED, SUCH AS THE CSECT THAT FAILED (IF THIS SECTION IS NOT AT THE BEGINNING OF THE FAILING MICROFICHE MODULE, SDWACSCT)
..11 ...1			VRARRL	"49" ('31'X) THE DATA IS THE EBCDIC LABEL OF THE RECOVERY ROUTINE HANDLING THE ERROR, IF THE RECOVERY ROUTINE IS NOT AT THE BEGINNING OF THE MICROFICHE MODULE, SDWAREXN
..11 ..11			VRAMID	"51" ('33'X) THE DATA IS AN EBCDIC MESSAGE ID FOR A MESSAGE RELATED TO THE FAILURE, WITH MESSAGE TEXT OPTIONALLY

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		WMJMDSPC	MUST BE ZERO
	...1		WMJMDSPD	QUEUED TO HARDCOPY
	.... 1...		WMJMDSPE	MUST BE ZERO
	.... .1..		WMJMDSPF	MESSAGE TO BE DOM'ED
	.... ..1.		WMJMDSPG	PROCESSING TEMPORARILY SUSPENDED
	.... ...1		WMJMDSPH	MSG ISSUED BY AUTH USER
161	(A1) CHARACTER	2	WMJMASID	ASID OF USER
163	(A3) BITSTRING	1	WMJMBUF	BUFFER STATUS FLAGS
	1...		WMJMBUFA	WQE AVAILABLE
	.1..		WMJMBUFB	WQE IN USE
	..1.		WMJMBUFC	READY FOR HARDCOPY
	...1		WMJMBUFD	WQE ACQUIRED BY GETMAIN
	.... 1...		WMJMBUFE	WQE SERVICED
	.... .1..		WMJMBUFF	TPUT TO DO
	.... ..1.		WMJMBUG	WQE SUPPRESSED BY MPF
	.... ...1		WMJMTRCD	MAJOR WQE HAS BEEN MASTER TRACED
164	(A4) ADDRESS	4	WMJMTCB	ADDR OF ISSUER'S TCB
168	(A8) ADDRESS	1	WMJMRTCT	ROUTED COUNT
169	(A9) ADDRESS	3	WMJMSEQ	SEQUENCE NUMBER
172	(AC) CHARACTER	2	WMJMCS	MCS FLAGS
172	(AC) BITSTRING	1	WMJMCS1	1ST BYTE OF MCS FLAGS
	1...		WMJMCS1A	ROUTE AND DESCRIPTOR CODES EXIST
	.1..		WMJMCS1B	QUEUE BY ID TO ACTIVE CONSOLE
	..1.		WMJMCS1C	COMMAND RESPONSE
	...1		WMJMCS1D	MESSAGE TYPE FIELD PRESENT
	.... 1...		WMJMCS1E	ACCEPTED REPLY TO A WTOR
	.... .1..		WMJMCS1F	BROADCAST (ROUTE TO ALL ACTIVE CONSOLES)
	.... ..1.		WMJMCS1G	QUEUE TO HARDCOPY ONLY
	.... ...1		WMJMCS1H	QUEUE UNCONDITIONALLY BY ID TO CONSOLE
173	(AD) BITSTRING	1	WMJMCS2	2ND BYTE OF MCS FLAGS
	1...		WMJMCS2A	DO NOT TIME STAMP
	.1..		WMJMCS2B	MLWTO
	..1.		WMJMCS2C	PRIMARY SUBSYSTEM USE ONLY
	...1		WQERSV47	RESERVED
 1...		WQERSV48	RESERVED
1..		WMJMCS2F	BYPASS HARDCOPY QUEUEING
1.		WQERSV49	RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
			WQERSV11	RESERVED
174	(AE) CHARACTER	2	WMJMMT	MESSAGE TYPE FLAGS
174	(AE) BITSTRING	1	WMJMMT1	1ST BYTE OF MESSAGE TYPE FLAGS
			WMJMMT1A	DISPLAY JOB NAMES
			WMJMMT1B	DISPLAY STATUS
			WQERSVA6	RESERVED WMJMMT1C***
			WMJMMT1D	MUST BE ZERO
			WQERSV50	RESERVED
			WMJMMT1F	MONITOR SESS
			WQERSV51	RESERVED
			WQERSV52	RESERVED
175	(AF) BITSTRING	1	WMJMMT2	2ND BYTE OF MESSAGE TYPE FLAGS
176	(B0) CHARACTER	4	WMJMRTC	ROUTING CODES
176	(B0) BITSTRING	1	WMJMRTC1	1ST BYTE OF ROUTING CODES
			WMJMRTCA	MASTER CONSOLE
			WMJMRTCB	MASTER CONSOLE INFO
			WMJMRTCC	TAPE POOL
			WMJMRTCD	DIRECT ACCESS POOL
			WMJMRTCE	TAPE LIBRARY
			WMJMRTCF	DISK LIBRARY
			WMJMRTCG	UNIT RECORD POOL
			WMJMRTCH	TELEPROCESSING CONTROL
177	(B1) BITSTRING	1	WMJMRTC2	2ND BYTE OF ROUTING CODES
			WMJMRTCI	SYSTEM SECURITY
			WMJMRTCJ	SYSTEM/ERROR MAINTENANCE
			WMJMRTCK	PROGRAMMER INFORMATION
			WMJMRTCL	EMULATOR INFORMATION
			WMJMRTCM	USER ROUTING CODE
			WMJMRTCN	USER ROUTING CODE
			WMJMRTC0	USER ROUTING CODE
			WQERSV53	RESERVED
178	(B2) BITSTRING	1	WMJMRTC3	3RD BYTE OF ROUTING CODES
179	(B3) BITSTRING	1	WMJMRTC4	4TH BYTE OF ROUTING CODES
180	(B4) CHARACTER	1	WMJMUID	UCM ENTRY ID
181	(B5) CHARACTER	1	WMJFLG1	MISCELLANEOUS FLAGS
			WMJFLG11	THIS MESSAGE WAS PROCESSED WHILE MPF WAS ACTIVE AND HARDCOPY WAS AVAILABLE
			WMJFLG12	RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		WMJFLG13	RESERVED
	...1		WMJFLG14	RESERVED
	.... 1...		WMJFLG15	RESERVED
	.... .1..		WMJFLG16	RESERVED
	.... ..1.		WMJFLG17	RESERVED
	.... ...1		WMJFLG18	RESERVED
182	(B6) UNSIGNED	2	WQERSV54	RESERVED
184	(B8) CHARACTER	4	WMJMDEC	DESCRIPTOR CODES
184	(B8) BITSTRING	1	WMJMDEC1	1ST BYTE OF DESCRIPTOR CODES
	1...		WMJMDECA	SYSTEM FAILURE MESSAGE
	.1..		WMJMDECB	IMMEDIATE ACTION REQUIRED MESSAGE
	..1.		WMJMDECC	EVENTUAL ACTION REQUIRED MESSAGE
	...1		WMJMDECD	SYSTEM STATUS MESSAGE
	.... 1...		WMJMDECE	IMMEDIATE COMMAND RESPONSE MESSAGE
	.... .1..		WMJMDECF	JOB STATUS MESSAGE
	.... ..1.		WMJMDECG	APPLICATION PROGRAM/ PROCESSOR MESSAGE
	.... ...1		WMJMDECH	OUT-OF-LINE MESSAGE
185	(B9) BITSTRING	1	WMJMDEC2	2ND BYTE OF DESCRIPTOR CODES
	1...		WMJMDECI	DESCRIPTOR CODE 9
	.1..		WMJMDECJ	DESCRIPTOR CODE 10
	..1.		WMJMDECK	CRITICAL EVENTUAL ACTION MSG DESCRIPTOR CODE 11
	...1		WQERSV57	RESERVED
	.... 1...		WQERSV58	RESERVED
	.... .1..		WQERSV59	RESERVED
	.... ..1.		WQERSV60	RESERVED
	.... ...1		WQERSV61	RESERVED
186	(BA) BITSTRING	1	WMJMDEC3	3RD BYTE OF DESCRIPTOR CODES RESERVED
187	(BB) BITSTRING	1	WMJMDEC4	4TH BYTE OF DESCRIPTOR CODES RESERVED
188	(BC) ADDRESS	4	WMJMJTCB	ADDR OF JOB STEP TCB
192	(C0) UNSIGNED	1	WMJMVRSN	VERSION LEVEL
193	(C1) CHARACTER	3	WMJMRV98	RESERVED
196	(C4) CHARACTER	8	WMJMSID	THE ID OF THE SYSTEM ON WHICH THIS MESSAGE WAS ISSUED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
204	(CC) ADDRESS	20	WMJMRV99	RESERVED
0	(0) STRUCTURE	224	WMNM	START OF MINOR WQE
0	(0) ADDRESS	4	WMNMEXT	POINTER TO SECOND HALF OF WQE
0	(0) ADDRESS	1	WMNMUC1	USE COUNT 1
1	(1) ADDRESS	3	WMNMNX1	ADDRESS OF SECOND HALF OF WQE OR ZERO
4	(4) BITSTRING	1	WMNMML1	MLWTO FLAGS FOR FIRST MESSAGE
	1... ..		WQERSV62	RESERVED
	.1.. ..		WMNMML1B	MAJOR WQE
	..1.		WMNMML1C	MINOR WQE
	...1		WMNMML1D	CHAIN ALTERED
	.... 1...		WMNMML1E	WTL ISSUED
	.... .1..		WMNMML1F	MINOR WQE FOR ABEND
	.... ..1.		WMNMML1G	SERVICE THIS CHAIN
	.... ...1		WMNMML1H	MINOR WQE ACQUIRED VIA GETMAIN
5	(5) BITSTRING	1	WMNMLT1	LINE TYPE FLAGS FOR FIRST MESSAGE
	1... ..		WMNMLT1A	CONTROL LINE
	.1.. ..		WMNMLT1B	LABEL LINE
	..1.		WMNMLT1C	DATA LINE
	...1		WMNMLT1D	END INDICATOR
	.... 1...		WQERSV63	RESERVED
	.... .1..		WQERSV64	RESERVED
	.... ..1.		WQERSV65	RESERVED
	.... ...1		WQERSV66	RESERVED
6	(6) ADDRESS	1	WQERSV67	RESERVED
7	(7) ADDRESS	1	WMNMTL1	LENGTH OF FIRST MESSAGE TEXT
8	(8) CHARACTER	4	WMNMHCT1	HARDCOPY ID FOR FIRST MESSAGE
12	(C) CHARACTER	72	WMNMTXT1	FIRST MESSAGE TEXT (MAXIMUM 72 BYTES)
84	(54) BITSTRING	1	WMNMST1	STATUS FLAGS
	1... ..		WMNMTPD1	TPUT DONE
	.1.. ..		WMNMTRC1	FIRST MINOR WQE HAS BEEN MASTER TRACED
	..1.		WQERSVA9	RESERVED
	...1		WQERSVB1	RESERVED
 1...		WQERSVB2	RESERVED
1..		WQERSVB3	RESERVED

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.		WQERSVB4	RESERVED
1		WQERSVB5	RESERVED
85	(55) CHARACTER	3	WQERSVB6	RESERVED
88	(58) ADDRESS	8	WQERSVB7	RESERVED
96	(60) ADDRESS	1	WMNMUC2	USE COUNT 2
97	(61) ADDRESS	3	WMNMNX2	ADDRESS OF NEXT MINOR WQE OR ZERO
100	(64) BITSTRING	1	WMNMML2	MLWTO FLAGS FOR SECOND MESSAGE
	1...		WQERSV68	RESERVED
	.1..		WMNMML2B	MAJOR WQE
	..1.		WMNMML2C	MINOR WQE
	...1		WMNMML2D	CHAIN ALTERED
	.... 1...		WMNMML2E	WTL ISSUED
	.... .1..		WQERSV69	RESERVED
	.... ..1.		WMNMML2G	SERVICE THIS CHAIN
	.... ...1		WMNMML2H	LINE 2 AVAILABLE
101	(65) BITSTRING	1	WMNMLT2	LINE TYPE FLAGS FOR SECOND MESSAGE
	1...		WMNMLT2A	CONTROL LINE
	.1..		WMNMLT2B	LABEL LINE
	..1.		WMNMLT2C	DATA LINE
	...1		WMNMLT2D	END INDICATOR
	.... 1...		WQERSV70	RESERVED
	.... .1..		WQERSV71	RESERVED
	.... ..1.		WQERSV72	RESERVED
	.... ...1		WQERSV73	RESERVED
102	(66) ADDRESS	1	WQERSV74	RESERVED
103	(67) ADDRESS	1	WMNMTL2	LENGTH OF SECOND MESSAGE TEXT
104	(68) CHARACTER	4	WMNMHCT2	HARDCOPY ID FOR SECOND MESSAGE
108	(6C) CHARACTER	72	WMNMTXT2	SECOND MESSAGE TEXT (MAXIMUM 72 BYTES)
180	(B4) BITSTRING	1	WMNMST2	STATUS FLAGS 2
	1...		WMNMTPD2	TPUT DONE MSG 2
	.1..		WMNMTRC2	SECOND MINOR WQE HAS BEEN MASTER TRACED
	..1.		WQERSVB9	RESERVED
	...1		WQERSVC1	RESERVED
 1...		WQERSVC2	RESERVED
1..		WQERSVC3	RESERVED

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1.		WQERSVC4	RESERVED
1		WQERSVC5	RESERVED
181	(B5) CHARACTER	3	WQERSVC6	RESERVED
184	(B8) ADDRESS	8	WQERSVC7	RESERVED
192	(C0) ADDRESS	16	WMNM1R99	RESERVED
208	(D0) ADDRESS	16	WMNM2R99	RESERVED

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CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
WMJFLG1	B5		WMJMDECC	B8	20	WMJMMLWC	4	20
WMJFLG11	B5	80	WMJMDECD	B8	10	WMJMMLWD	4	10
WMJFLG12	B5	40	WMJMDECE	B8	08	WMJMMLWE	4	08
WMJFLG13	B5	20	WMJMDECF	B8	04	WMJMMLWF	4	04
WMJFLG14	B5	10	WMJMDECG	B8	02	WMJMMLWG	4	02
WMJFLG15	B5	08	WMJMDECH	B8	01	WMJMMLWH	4	01
WMJFLG16	B5	04	WMJMDECI	B9	80	WMJMMSGN	90	
WMJFLG17	B5	02	WMJMDECJ	B9	40	WMJMNT	AE	
WMJFLG18	B5	01	WMJMDECK	B9	20	WMJMNT1	AE	
WMJMJ	0		WMJMDECI	B8		WMJMNT1A	AE	80
WMJMAECB	8C		WMJMDEC2	B9		WMJMNT1B	AE	40
WMJMAREA	5		WMJMDEC3	BA		WMJMNT1D	AE	10
WMJMASID	A1		WMJMDEC4	BB		WMJMNT1F	AE	04
WMJMIBUF	A3		WMJMIDSP	A0		WMJMNT2	AF	
WMJMIBUFA	A3	80	WMJMIDSPA	A0	80	WMJMNXT	1	
WMJMIBUFB	A3	40	WMJMIDSPB	A0	40	WMJMPPAD	C	
WMJMIBUFC	A3	20	WMJMIDSPC	A0	20	WMJMPPAD1	15	
WMJMIBUFD	A3	10	WMJMIDSPD	A0	10	WMJMPPAD2	1E	
WMJMIBUFE	A3	08	WMJMIDSPE	A0	08	WMJMPSB1	94	10
WMJMIBUFF	A3	04	WMJMIDSPF	A0	04	WMJMRCTA	B0	80
WMJMIBUFG	A3	02	WMJMIDSPG	A0	02	WMJMRCTB	B0	40
WMJMCONS	94	20	WMJMIDSPH	A0	01	WMJMRCTC	B0	20
WMJMCS	AC		WMJMIDCBF	94		WMJMRCTD	B0	10
WMJMCS1	AC		WMJMIDEXT	0		WMJMRCTE	B0	08
WMJMCS1A	AC	80	WMJMIDEXTA	1		WMJMRCTF	B0	04
WMJMCS1B	AC	40	WMJMIDHCID	67		WMJMRCTG	B0	02
WMJMCS1C	AC	20	WMJMIDJBNM	16		WMJMRCTH	B0	01
WMJMCS1D	AC	10	WMJMIDJTCB	BC		WMJMRCTI	B1	80
WMJMCS1E	AC	08	WMJMIDMLTYA	86	80	WMJMRCTJ	B1	40
WMJMCS1F	AC	04	WMJMIDMLTYB	86	40	WMJMRCTK	B1	20
WMJMCS1G	AC	02	WMJMIDMLTYC	86	20	WMJMRCTL	B1	10
WMJMCS1H	AC	01	WMJMIDMLTYD	86	10	WMJMRCTM	B1	08
WMJMCS2	AD		WMJMIDMLTYP	86		WMJMRCTN	B1	04
WMJMCS2A	AD	80	WMJMIDMLTY1	86		WMJMRCTO	B1	02
WMJMCS2B	AD	40	WMJMIDMLTY2	87		WMJMRCT1	B0	
WMJMCS2C	AD	20	WMJMIDMAJD	94	40	WMJMRCT2	B1	
WMJMCS2F	AD	04	WMJMIDMIN	88		WMJMRCT3	B2	
WMJMDEC	B8		WMJMIDMLW	4		WMJMRCT4	B3	
WMJMDECA	B8	80	WMJMIDMLWA	4	80	WMJMRESA	6C	
WMJMDECB	B8	40	WMJMIDMLWB	4	40	WMJMRR	8	

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
WMJMRTC	B0		WMNMML1	4		WQEBUFG	A3	02
WMJMRTCT	A8		WMNMML1B	4	40	WQEDCA	B8	80
WMJMRV98	C1		WMNMML1C	4	20	WQEDCB	B8	40
WMJMRV99	CC		WMNMML1D	4	10	WQEDCC	B8	20
WMJMSEQ	A9		WMNMML1E	4	08	WQEDCD	B8	10
WMJMSEB	7A		WMNMML1F	4	04	WQEDCE	B8	08
WMJMSEB	7A	80	WMNMML1G	4	02	WQEDCF	B8	04
WMJMSEB	7A	40	WMNMML1H	4	01	WQEDCG	B8	02
WMJMSEB	7A	20	WMNMML2	64		WQEDCH	B8	01
WMJMSEB	7A	10	WMNMML2B	64	40	WQEDCI	B9	80
WMJMSEB	7A	08	WMNMML2C	64	20	WQEDCJ	B9	40
WMJMSEB	7A		WMNMML2D	64	10	WQEDCK	B9	20
WMJMSEB	7B		WMNMML2E	64	08	WQEDC1	B8	
WMJMSEB	C4		WMNMML2G	64	02	WQEDC2	B9	
WMJMTCB	A4		WMNMML2H	64	01	WQEDESCD	B8	
WMJMTRCD	A3	01	WMNMNX1	1		WQEDOM	A0	04
WMJMTRCD	D		WMNMNX2	61		WQEFLG1	B5	
WMJMTRCD	D		WMNMST1	54		WQEFLG11	B5	80
WMJMTRCD	10		WMNMST2	B4		WQEFLG12	B5	40
WMJMTRCD	F		WMNMTL1	7		WQEFLG13	B5	20
WMJMTRCD	12		WMNMTL2	67		WQEFLG14	B5	10
WMJMTRCD	13		WMNMTPD1	54	80	WQEFLG15	B5	08
WMJMTRCD	1F		WMNMTPD2	B4	80	WQEFLG16	B5	04
WMJMTRCD	6		WMNMTRC1	54	40	WQEFLG17	B5	02
WMJMTRCD	0		WMNMTRC2	B4	40	WQEFLG18	B5	01
WMJMTRCD	B4		WMNMTRC3	C		WQEJOBNM	16	
WMJMTRCD	C0		WMNMTRC4	6C		WQEJSTCB	BC	
WMJMTRCD	94	80	WMNMUC1	0		WQELKP	0	
WMJMTRCD	0		WMNMUC2	60		WQELKPA	1	
WMJMTRCD	0		WMNM1R99	C0		WQEMCSA	AC	80
WMJMTRCD	8		WMNM2R99	D0		WQEMCSB	AC	40
WMJMTRCD	68		WNJNPAD3	6B		WQEMCSC	AC	20
WMJMTRCD	5		WQE	0		WQEMCSD	AC	10
WMJMTRCD	5	80	WQEASID	A1		WQEMCSE	AC	08
WMJMTRCD	5	40	WQEAUTH	A0	01	WQEMCSF	AC	
WMJMTRCD	5	20	WQEAVAIL	A3		WQEMCSFF	AC	04
WMJMTRCD	5	10	WQEBUFA	A3	80	WQEMCSF1	AC	
WMJMTRCD	65		WQEBUFB	A3	40	WQEMCSF2	AD	
WMJMTRCD	65	80	WQEBUFC	A3	20	WQEMCSG	AC	02
WMJMTRCD	65	40	WQEBUFD	A3	10	WQEMCSH	AC	01
WMJMTRCD	65	20	WQEBUFE	A3	08	WQEMCSI	AD	80
WMJMTRCD	65	10	WQEBUFF	A3	04	WQEMCSJ	AD	40

WQE

WQE

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NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
WQEMCSK	AD	20	WQERR	8		WQERSV31	7A	04
WQEMCSN	AD	04	WQERSVA4	98		WQERSV32	7A	02
WQEMCSO	AD	02	WQERSVA5	9C		WQERSV33	7A	01
WQEMCSP	AD	01	WQERSVA6	AE	20	WQERSV34	84	
WQEMSGTA	AE	80	WQERSVA9	54	20	WQERSV35	86	08
WQEMSGTB	AE	40	WQERSVB1	54	10	WQERSV36	86	04
WQEMSGTC	AE	20	WQERSVB2	54	08	WQERSV37	86	02
WQEMSGTD	AE	10	WQERSVB3	54	04	WQERSV38	86	01
WQEMSGTF	AE	04	WQERSVB4	54	02	WQERSV47	AD	10
WQEMSGTP	AE		WQERSVB5	54	01	WQERSV48	AD	08
WQEMSGT1	AE		WQERSVB6	55		WQERSV49	AD	02
WQEMTRCD	A3	01	WQERSVB7	58		WQERSV50	AE	08
WQENBR	4		WQERSVB9	B4	20	WQERSV51	AE	02
WQEORE	A0	20	WQERSVC1	B4	10	WQERSV52	AE	01
WQEPAD	C		WQERSVC2	B4	08	WQERSV53	B1	01
WQEPAD1	15		WQERSVC3	B4	04	WQERSV54	B6	
WQEPAD2	1E		WQERSVC4	B4	02	WQERSV57	B9	10
WQEPAD3	9F		WQERSVC5	B4	01	WQERSV58	B9	08
WQEPER1	F		WQERSVC6	B5		WQERSV59	B9	04
WQEPER2	12		WQERSVC7	B8		WQERSV60	B9	02
WQEPURGE	A0	80	WQERSVD2	7C		WQERSV61	B9	01
WQEQDFHC	A0	10	WQERSVD4	94	08	WQERSV62	4	80
WQEQFHC	A0	40	WQERSVD5	94	04	WQERSV63	5	08
WQEROUT	B0		WQERSVD6	94	02	WQERSV64	5	04
WQEROUTA	B0	80	WQERSVD7	94	01	WQERSV65	5	02
WQEROUTB	B0	40	WQERSVD8	95		WQERSV66	5	01
WQEROUTC	B0	20	WQERSV09	AD	10	WQERSV67	6	
WQEROUTD	B0	10	WQERSV10	AD	08	WQERSV68	64	80
WQEROUTE	B0	08	WQERSV11	AD	01	WQERSV69	64	04
WQEROUTF	B0	04	WQERSV13	AE	08	WQERSV70	65	08
WQEROUTG	B0	02	WQERSV14	AE	02	WQERSV71	65	04
WQEROUTH	B0	01	WQERSV15	AE	01	WQERSV72	65	02
WQEROUTI	B1	80	WQERSV16	B1	01	WQERSV73	65	01
WQEROUTJ	B1	40	WQERSV17	B2		WQERSV74	66	
WQEROUTK	B1	20	WQERSV21	B9	10	WQERSV98	C1	
WQEROUTL	B1	10	WQERSV22	B9	08	WQERSV99	CC	
WQEROUTM	B1	08	WQERSV23	B9	04	WQERTCT	A8	
WQEROUTN	B1	04	WQERSV24	B9	02	WQESEQN	A9	
WQEROUTO	B1	02	WQERSV25	B9	01	WQESUSP	A0	02
WQEROUT1	B0		WQERSV26	BA		WQESYSID	C4	
WQEROUT2	B1		WQERSV29	74		WQETCB	A4	
WQERPVID	B6		WQERSV30	78		WQETS	D	

WQE

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Data Area Descriptions

WQE

423

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<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
WQETSHH	D		WQETXTL	9E		WQEVRSN	C0	
WQETSMM	10		WQEUCMID	B4		WQENTOR	A0	08
WQETSSS	13		WQEUSE	0		WQEXA	A0	
WQETXT	1F							

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WSAVTC

Common Name : CPU Work Save Area Vector Table
 Macro ID : IHAWSAVT
 DSECT Name : WSAC
 Created by : SYSGEN
 Subpool and Key : 245 and key 0
 Size : 88 bytes
 Pointed to by : LCCACBUS field of the LCCA data area
 Serialization : None
 Function : Contains pointers to the processor work save areas.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	WSAC	, CPU WORK/SAVE AREA VECTOR TABLE LCCACBUS POINTS TO THIS AREA
0	(0) ADDRESS	4	WSACCWSA	ADDRESS OF LOW-LEVEL COMMON SAVE AREA (104 BYTES)
4	(4) ADDRESS	4	WSACGTF	ADDRESS OF GTF SAVE AREA (208 BYTES)
8	(8) ADDRESS	4	WSACOPTM	ADDRESS OF SYSTEM RESOURCES MANAGER (SRM) SAVE AREA (192 BYTES)
12	(C) ADDRESS	4	WSACTIME	ADDRESS OF TIMER SAVE AREA (96 BYTES)
16	(10) ADDRESS	4	WSACACR	ADDRESS OF AUTOMATIC CPU RECONFIGURATION (ACR) SAVE AREA (4760 BYTES) (SAVE AREA FOR: HARDWARE AND SOFTWARE INFORMATION, NORMAL STACK, MCH FRR STACK, IEAVTRTH SAVE AREA WSACRTMK) OR ADDRESS OF 8-BYTE RESERVED AREA IF ACR IS NOT IN THE SYSTEM
20	(14) ADDRESS	4	WSACRTMK	ADDRESS OF RECOVERY TERMINATION MONITOR MACHINE CHECK HANDLER (RTM/MACHK) SAVE AREA (104 BYTES)

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) ADDRESS	4	WSACIOS	ADDRESS OF IOS (FLIH) SAVE AREA (80 BYTES)
28	(1C) ADDRESS	4	WSACEDSO	ADDRESS OF SCHEDULE SAVE AREA (80 BYTES)
32	(20) ADDRESS	4	WSACMF1	ADDRESS OF MEASUREMENT FACILITY 1 SAVE AREA (144 BYTES)
36	(24) ADDRESS	4	WSACABTM	ADDRESS OF ABTERM SAVE AREA (72 BYTES)
40	(28) ADDRESS	4	WSACRSTI	ADDRESS OF I/O RESTART SAVE AREA (128 BYTES)
44	(2C) ADDRESS	4	WSACREST	ADDRESS OF WORK/SAVE AREA FOR STATUS SAVING BY STOP AND RESTART SUBROUTINE (80 BYTES)
48	(30) ADDRESS	4	WSACRRSA	ADDRESS OF SUPERVISOR REPAIR ROUTINE SAVE AREA (64 BYTES)
52	(34) ADDRESS	4	WSACCCH	ADDRESS OF RECOVERY MANAGEMENT SERVICES CHANNEL CHECK HANDLER (RMS-CCH) SAVE AREA (72 BYTES)
56	(38) ADDRESS	4	WSACASMD	ADDRESS OF AUXILIARY STORAGE MANAGEMENT (ASM) DISABLED INTERRUPT EXIT (DIE) WORK/SAVE AREA (1024 BYTES)
60	(3C) ADDRESS	4	WSACASMS	ADDRESS OF AUXILIARY STORAGE MANAGEMENT (ASM) SRB DRIVEN I/O ROUTINES WORK/SAVE AREA (1024 BYTES)
64	(40) ADDRESS	4	WSACRSM	ADDRESS OF REAL STORAGE MANAGER (RSM) WORK/SAVE AREA (80 BYTES)
68	(44) ADDRESS	4	WSACCCR	ADDRESS OF DISABLED CONSOLE COMMUNICATION WORK/SAVE AREA (304 BYTES)
72	(48) ADDRESS	4	WSACSLIP	ADDRESS OF SLIP/PER WORK/SAVE (136 BYTES)

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
76	(4C) ADDRESS	4	WSACEVRR	ADDRESS OF ASVT AND AFT RECONSTRUCT WORK/SAVE AREA (32 BYTES).
80	(50) ADDRESS	4	WSACRESF	ADDRESS OF RESTART FLIH WORK/SAVE AREA (760 BYTES).
84	(54) ADDRESS	4	WSACMFA	ADDRESS OF MALFUNCTION ALERT WORK/SAVE AREA (144 BYTES).

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WSAVTG

Common Name : Global Work Save Area Vector Table
 Macro ID : IHAWSAVT
 DSECT Name : WSAG
 Created by : SYSGEN
 Subpool and Key : NUCLEUS resident and key 0
 Size : Global 52 bytes
 Pointed to by : CVTSPSA field of the CVT data area
 Serialization : None
 Function : Contains pointers to the global work save areas.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	WSAG	, GLOBAL WORK/SAVE AREA VECTOR TABLE CVTSPSA POINTS TO THIS AREA
0	(0) ADDRESS	4	WSAGPGIO	ADDRESS OF PAGE I/O ERROR SAVE AREA (80 BYTES)
4	(4) ADDRESS	4	WSAGGMFM	ADDRESS OF GETMAIN/FREEMAIN SAVE AREA (1168 BYTES)
8	(8) ADDRESS	4	WSAGRV01	RESERVED
12	(C) ADDRESS	4	WSAGSSRS	ADDRESS OF SUSPEND/RESET FOR RSM SAVE AREA (80 BYTES)
16	(10) ADDRESS	4	WSAGEMSO	ADDRESS OF MEMORY SWITCH SAVE AREA (56 BYTES)
20	(14) ADDRESS	4	WSAGSTAT	ADDRESS OF STATUS SAVE AREA (72 BYTES)
24	(18) ADDRESS	4	WSAGOPTM	ADDRESS OF SYSTEM RESOURCES MANAGER (SRM) SAVE AREA (400 BYTES)
28	(1C) ADDRESS	4	WSAGMENT	ADDRESS OF MEMORY TERMINATION SAVE AREA (80 BYTES)

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
32	(20) ADDRESS	4	WSAGRV02	RESERVED.
36	(24) ADDRESS	4	WSAGREST	ADDRESS OF WORK/SAVE AREA FOR STATUS SAVING BY STOP AND RESTART SUBROUTINE (168 BYTES)
40	(28) ADDRESS	4	WSAGSCHE	ADDRESS OF SCHEDULE ROUTINE (IEAVESCO) SAVE AREA FOR SYSEVENT BRANCH ENTRY INTERFACE (72 BYTES)
44	(2C) ADDRESS	4	WSAGEXSN	ADDRESS OF WORK/SAVE AREA FOR EXCESSIVE SPIN NOTIFICATION (400 BYTES)
48	(30) ADDRESS	4	WSAGDCCR	ADDRESS OF WORK/SAVE AREA FOR DISABLED COMMUNICATION (1496 BYTES)
52	(34) ADDRESS	4	WSAGRESF	ADDRESS OF WORK/SAVE AREA FOR RESTART FLIH (456) BYTES)

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WSAVTL

Common Name : Local Work Save Area Vector Table
 Macro ID : IHAWSAVT
 DSECT Name : WSAL
 Created by : SYSGEN
 Subpool and Key : 255 and key 0
 Size : 60 bytes
 Pointed to by : ASXBSPSA field of the ASXB data area
 Serialization : LOCAL lock
 Function : Contains pointers to the local work save areas.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	WSAL	, LOCAL WORK/SAVE AREA VECTOR TABLE ASXBSPSA POINTS TO THIS AREA
0	(0) ADDRESS	4	WSALCWSA	ADDRESS OF LOW-LEVEL COMMON SAVE AREA (104 BYTES)
4	(4) ADDRESS	4	WSALVALC	ADDRESS OF VALIDITY CHECK SAVE AREA (64 BYTES)
8	(8) ADDRESS	4	WSALRTM2	ADDRESS OF RECOVERY TERMINATION MONITOR (RTM) SAVE AREA (80 BYTES)
12	(C) ADDRESS	4	WSALSDMP	ADDRESS OF SDUMP SAVE AREA (80 BYTES)
16	(10) ADDRESS	4	WSALABTM	ADDRESS OF ABTERM SAVE AREA (80 BYTES)
20	(14) ADDRESS	4	WSALCIRB	ADDRESS OF CIRB SAVE AREA (80 BYTES)
24	(18) ADDRESS	4	WSALS2EE	ADDRESS OF STAGE 2 EXIT EFFECTOR SAVE AREA (80 BYTES)
28	(1C) ADDRESS	4	WSALEXIT	ADDRESS OF EXIT (SVC 3) SAVE AREA (128 BYTES)
32	(20) ADDRESS	4	WSALPOST	ADDRESS OF POST SAVE AREA (160 BYTES)

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
36	(24) ADDRESS	4	WSALWAIT	ADDRESS OF WAIT SAVE AREA (72 BYTES)
40	(28) ADDRESS	4	WSALSTAT	ADDRESS OF STATUS SAVE AREA (80 BYTES)
44	(2C) ADDRESS	4	WSALSTAE	ADDRESS OF STAE SAVE AREA (112 BYTES AS FOLLOWS 72 BYTES SAVE AREA SERIALIZED BY LOCAL LOCK FOR USERS OF ESTAE BRANCH ENTRY, 4 BYTES RESERVED, 20 BYTES USED BY INTERSECT SERVICE ROUTINE, 12 BYTES RESERVED, 4 BYTES FREE SCB QUEUE ANCHOR)
48	(30) ADDRESS	4	WSALEVNT	ADDRESS OF EVENTS (FAST MULTIPLE WAIT) SAVE AREA (72 BYTES)
52	(34) ADDRESS	4	WSALRSM	ADDRESS OF REAL STORAGE MANAGEMENT (RSM) SAVE AREA (72 BYTES)
56	(38) ADDRESS	4	WSALACHP	ADDRESS OF ASCB CHAP ROUTINE SAVE AREA (40 BYTES)

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XDBA

Common Name : IOS EXCP Debugging Area
 Macro ID : IECDXDBA
 DSECT Name : XDBA
 Created by : IECEXP
 Subpool and Key :
 Size : 2048 bytes
 Pointed to by : CBEXCPD field of the TCB data area
 Serialization : None
 Function : The XDBA contains diagnostic data provided by EXCP's functional recovery procedure, XCPFRR, to aid in debugging EXCP problems.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	XDBA	
0	(0) SIGNED	2	XDBACOMP	ABEND COMPLETION CODE
2	(2) HEX	1	XDBAFLAG	FLAG DEPICTING WHERE THE PROBLEM OCCURRED.
	1... ..		XDBAFTE	"X'80'" ERROR IN SVC PORTION OF EXCP
	.1.. ..		XDBABKE	"X'40'" ERROR IN SRB PORTION OF EXCP
	..1.		XDBAPCI	"X'20'" ERROR IN PCI APPENDAGE
	...1		XDBACHE	"X'10'" ERROR IN CHE APPENDAGE
	.... 1...		XDBAABE	"X'08'" ERROR IN ABE APPENDAGE
	.... .1..		XDBAEOE	"X'04'" ERROR IN EOE APPENDAGE
	.... ..1.		XDBAPGFX	"X'02'" ERROR IN PGFX APPENDAGE
	.... ...1		XDBAAACT	"X'01'" APPENDAGE IS ACTIVE
	.... .....		XDBASIO	"X'00'" ERROR IN SIO APPENDAGE
3	(3) HEX	1	XDBARV1	RESERVED
4	(4) HEX	8	XDBAPSW	PSW AT TIME OF ERROR
12	(C) HEX	2		RESERVED
14	(E) HEX	2	XDBACC	ORIG. ABEND CODE
16	(10) SIGNED	4	XDBARGSV(16)	REGISTERS AT TIME OF ABEND

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
80	(50) SIGNED	4	XDBATRN	TRANSLATION EXCEPTION ADDR
84	(54) HEX	40	XDBARQE	RQE BLOCK
124	(7C) SIGNED	4	XDBACHAN	XDBA CHAIN POINTER

THE 160 BYTE BLOCKS ARE MOVED INTO REMAINING DEBUGGING AREA, IN FOLLOWING SEQUENCE (IF PRESENT) :

EWA, SRB/IOSB, TCCW, IDAL, FIX, BEB, AND CPS.

THE 1ST 160 BYTE FOLLOWING LAST ENTRY IS ZEROED.

THE SRB AND TCCW ARE VALID IF ADDR IN RQE IS VALID

128	(80) HEX	160	XDBAENT	START OF 160B BLOCKS
	1.1.		XDBAEL	"160" ONE BLOCK ENTRY LENGTH
			XDBASIZE	"2048" SIZE OF XDBA
 11..		XDBABLKS	"(XDBASIZE-(XDBAENT-XDBA))/XDBAEL" CNT
				160B BLKS

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XPTE

Common Name : RSM External Page Table
 Macro ID : IHAXPTE
 DSECT Name : XPTE
 Created by : IEAVGM00 and IEAVCSEG (RSM supervisor)
 Subpool and Key : 245 or 255 and key 0
 Size : 12 bytes
 Pointed to by : PCBXPTA field of the PCB data area
 Serialization : SALLOC lock
 Function : Each is associated with a PGTE entry and describes external storage location and status of page.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	XPTE	, XPTEPTR
0	(0) CHARACTER	1	XPTPROT	PROTECTION KEY
1	(1) CHARACTER	1	XPTRSV1	RESERVED
2	(2) BITSTRING	1	XPTFLAGS	FLAG FIELD
	1... ..		XPTVIOLP	"BIT0"- XPTLPID CONTAINS A VIO LPID. THE AUXILIARY STORAGE REPRESENTED BY XPTLPID SHOULD NOT BE DESTROYED- A LSID MUST BE OBTAINED FOR A PAGE-OUT. 1=SAVE EXISTING AUXILIARY STORAGE. 0=EXISTING AUXILIARY STORAGE MAY BE DISCARDED.
	.1.. ..		XPTXAV	"BIT1"- EXTERNAL STORAGE ADDRESS VALID FLAG WHEN 1, EXT. ADDR. IS VALID
	..1.		XPTCKF	"BIT2"- CHANGE KEY FLAG; IF 1, KEY FOR THIS PAGE HAS BEEN CHANGED BY IEAVCKEY
	...1		XPTTAKE	"BIT3"- RESERVED. WAS USED IN VS2/REL1
	.... 1...		XPTVIO	"BIT4"- WHEN 1, PAGE IS PART OF A VIO WINDOW
	.... 1...		XPTRES2	"BIT4"- RESERVED.
	.... ..1.		XPTDEFER	"BIT6"- ALLOCATION DEFERRED FLAG; WHEN 1, ALLOCATION DEFERRED FOR THIS PAGE
	.... ...1		XPTRSV4	"BIT7"- RESERVED
3	(3) CHARACTER	1	XPTFLAG2	SECOND FLAG BYTE.
	1... ..		XPTVALID	"BIT0"- 1=LSID IN XPTLSID IS VALID.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.1..			XPTRES1	"BIT1"- RESERVED
..1.			XPTPOINP	"BIT2"- PAGE-OUT IN PROGRESS FLAG. 1=PAGE-OUT IN PROGRESS. (IMPLIES THAT XPTVALID='0'B
...1			XPTIOERR	"BIT3"- I/O ERROR FLAG. 1=A PERMANENT READ I/O ERROR WAS SUFFERED BY THIS PAGE.
.... 1...			XPTBBELO	"BIT4"- BELOW BIT FLAG. 1=IF POSSIBLE, A FRAME BELOW 16 MEG SHOULD BE ASSIGNED ON PAGE FAULT/PAGE LOAD/STAGE-2 SWAPIN, BECAUSE THIS PAGE, ALTHOUGH NOT FIXED AT THE TIME OF THE FAULT/LOAD/SWAPIN, WAS FIXED AT SOME PRIOR TIME, AND IT IS ANTICIPATED THE PAGE MAY IN FUTURE BE FIXED AGAIN. IF THE PAGE IS FAULT- ED/LOADED/SWAPPED IN INTO A BELOW FRAME, AND A FIX REQUEST IS LATER MADE, A MOVE FROM ABOVE TO BELOW CAN BE AVOIDED.
4	(4) CHARACTER	8	XPTLPID	THE LPID OF THE EXTERNAL STORAGE LOCATION OF THE VIRTUAL PAGE
4	(4) SIGNED	4	XPTLGN	LOGICAL GROUP NUMBER PORTION OF LPID IF VIO PAGE.
4	(4) CHARACTER	4	XPTLSID	AUX. STORAGE ADDRESS OF SLOT IF NOT VIO PAGE.
8	(8) SIGNED	4	XPTLPN	LOGICAL PAGE NUMBER PORTION OF LPID IF VIO PAGE.
8	(8) CHARACTER	4	XPTLSID2	AUX. STORAGE ADDRESS OF SLOT IF NOT VIO PAGE AND DUPLEXED PAGE.
12	(C) CHARACTER 11..	1	XPTEND XPTLEN	"XPTEND-XPTE"- LENGTH OF EXTERNAL PAGE TABLE ENTRY

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XSB

Common Name : Extended Status Block
 Macro ID : IHAXSB
 DSECT Name : XSB
 Created by : IEAVBK, IEAVEMIN, IEAVESVC, IEAVEATO, IEAVEEEE0, IEAVESPM,
 IEAVLK00
 Subpool and Key : 255 and key 0
 Size : 32 bytes
 Pointed to by : IHSAXSB, TCBXSB, SSRBXS, RBXS
 Serialization : N/A for SSRB. Local lock for IHSA. TCBACTIV for
 all others.
 Function : Contains dispatcher information concerning cross memory
 environment.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	XSB	
0	(0) FLOATING	8	XSBBEGIN	BEGINNING OF XSB.
0	(0) CHARACTER	4	XSBXS	XSB ACRONYM.
4	(4) SIGNED	4	XSBLINK	LINK TO NEXT AVAILABLE XSB IN POOL. SET BY EXIT, IEAVEOR, WHEN PUTTING XSB IN POOL. CLEARED BY STAGE 3, IEAVEEEE0, WHEN ASSIGNING XSB TO AN IRB.
4	(4) SIGNED	4	XSBFLGS	XSB FLAGS.
8	(8) FLOATING	8	XSBXMCRS	CROSS MEMORY STATUS CONTROL REGS.
8	(8) SIGNED	4	XSBXMCR3	CONTROL REG 3.
8	(8) SIGNED	2	XSBKM	KEY MASK.
10	(A) SIGNED	2	XSBASID	SECONDARY ASID.
12	(C) SIGNED	4	XSBXMCR4	CONTROL REG 4.

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) SIGNED	2	XSBAX	AUTHORIZATION INDEX.
14	(E) SIGNED	2	XSBPASID	PRIMARY ASID.
16	(10) FLOATING	8	XSBMCLE	CML LOCK STATUS ELEMENT.
16	(10) ADDRESS	4	XSBXLIDR	DATA FOR IDENTIFICATION OF CML REQUE- STOR. ADDRESS OF SRB SCHEDULED FOR TASK MODE CML LOCK REQUESTOR (IN XSB OF RB). ASID ASSOCIATED WITH SRB MODE CML LOCK REQUESTOR (IN XSB OF SSRB).
20	(14) ADDRESS	4	XSBXLAS	ASCB ADDRESS OF CML LOCK REQUESTED/OWNED.
24	(18) FLOATING	8	XSBSTKE	CURRENT PCLINK STACK INFORMATION.
24	(18) SIGNED	2	XSBTKN	CURRENT STACK TOKEN.
26	(1A) SIGNED	2	XSBASD	CURRENT STACK ADDRESS SPACE DESIGNATOR.
28	(1C) ADDRESS	4	XSBSEL	CURRENT STACK ELEMENT ADDRESS.
32	(20) FLOATING ..1.	8	XSBEND XSBLN	END OF XSB. "XSBEND-XSBBEGIN"LENGTH OF XSB.

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XTLST

Common Name : Extent List
 Macro ID : IHAXTLST
 DSECT Name : XTLST
 Created by : Modules - IEAVLK01, IEAVID00, IEWMSEPT
 Subpool and Key : 255 and key 0
 Size : 16 bytes
 Pointed to by : CDXMLJP field of the CDE data area
 Serialization : By serialization of the CDE that points to the XTLST
 Function : Contains information concerning the extents of a particular load module which has been loaded into virtual storage.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	XTLST	
0	(0) SIGNED	4	XTLLNTH	NUMBER OF BYTES IN EXTENT LIST (=16)
4	(4) SIGNED	4	XTLNRFAC	NUMBER OF RELOCATION FACTORS (=1)
8	(8) ADDRESS	4	XTLMSBLA	WORD REFERENCE FOR XTLMSBLN
8	(8) CHARACTER	1		ONE BYTE OF X'80'
9	(9) ADDRESS	3	XTLMSBLN	LENGTH OF MAIN STORAGE BLOCK
12	(C) ADDRESS	4	XTLMSBAA	WORD REFERENCE FOR XTLMSBAD
12	(C) CHARACTER	1		ONE BYTE OF X'00'
13	(D) ADDRESS	3	XTLMSBAD	ADDRESS OF MAIN STORAGE BLOCK