ST68-0606-0 (formerly SY28-0606-0)

Systems

OS/VS2 System Data Areas

VS2 Release 1



Preface

This publication contains reference information about the contents and format of system control blocks. Most of the control blocks in this publication are used by more than one component of the VS2 control program. The block descriptions are ordered alphabetically by acronym. When a block has different access method formats, They are arranged under the block name in the following order: SAM, ISAM, DAM, TAM, GAM, TCAM.

For compatibility with the macro instructions which map the data areas, certain fields describing non-supported functions or devices appear in the data area descriptions. This cannot be construed as a statement of IBM's intent to support such devices or features now or in the future.

Data areas relating to the paging supervisor are described in OS/VS2 Supervisor Logic, SY27-7244.

The reader of this manual must be familiar with the following publications:

IBM System/370 Principles of Operation, GA22-7000

OS/VS Data Management Services, GC26-3783

OS/VS Supervisor Services and Macro Instructions, GC27-6979

OS/VS2 Debugging Guide, GC28-0632

First Edition (September, 1972)

This edition applies to Release 1 of OS/VS2 and to all subsequent releases until otherwise indicated in new editions or Technical Newsletters. Changes are continually made to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest IBM System/360 and System/370 Bibliography,Order No. GA22-6822, and the current SRL Newsletter, Order No. GN20-0360, for the editions that are applicable and current.

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System Control Blocks

System data areas are the primary means for communicating information among the major parts of the OS/VS2 control program. The information is stored in the data areas and tables in a highly compact, readily accessible form. These data areas and tables have a standardized format, so that the information is usable by all parts of the control program. The addresses maintained in the data areas permit the control program to locate other control blocks and tables.

This publication consists of descriptions of major system data areas. The field descriptions show the decimal (Dec.) and hexadecimal (Hex.) displacements of the fields. Each block description begins on a right-hand page for ease in turning to a particular data area and to segment information about different data areas into sets of separate pages; thus, users may readily remove selected parts of the publication.

MBBCCHHR - Actual Address Format

In VS2, the actual address for a location on a direct access storage device is expressed in the 8-byte format MBBCCHHR. These 8 bytes contain:

- M The extent number. A one-byte binary number specifying the relative location of an entry in a data extent block (DEB). Each extent entry describes a set of contiguous tracks allocated for the data set. For the first extent, M = 0 except when ISAM is used. In that case, M = 1 for the first extent of user data.
- BB The bin number. This value is always zero.
- CCHH The CCHH number. The number that identifies a cylinder and track on a direct-access storage device.
- R The record number. The number of the record on its track.

Page Format

The page format used to contain the data area field descriptions is shown here:

```
OFFSET LENGTH NAME DESCRIPTION
```

This format puts field identification data to one side of the page, and thereby gives major emphasis to describing the use of the field. The longer text lines make it quicker and easier to read and contrast successive field descriptions.

The columns of the page format and their use are:

OFFSET The numeric address of the field relative to the beginning of the data area. The first

number is the offset in decimal, followed by the hexadecimal equivalent in parentheses.

Example: 16 (10)

LENGTH The size in bytes of the field.

This column is also used to show the bit settings of flag fields, that is, the state of bits in a byte. When the column is used in this way, the setting is shown as follows:

.... The 8 bit positions (0 - 7) in a byte. For ease of scanning, the high order (left-hand) 4 bits are separated from the low-order 4 bits.

x... A reference to bit 0.

1... Bit 0 is on.

o... Bit zero is off.

.... ..xx A reference to bits 6 and 7.

Bit settings that are significant are shown and described. Bit settings that are not presently significant are described as reserved bits. Users should not make use of these

bits because future releases of VS2 may make use of them.

NAME A name that identifies the field or bit setting. The name of a flag field is indented one

space for differentiation.

DESCRIPTION The use of the field. Where the field's use relates directly to a value coded by a user, the

value coded is shown. Where the hexadecimal code for a particular bit setting would be

helpful, it is shown separated from the rest of the description.

Non-Supported Devices and Features

To maintain compatibility with the control blocks as they are mapped, fields describing non-supported devices and features are shown in this publication. They are indicated with an asterisk (*). These items are not to be construed as statements of IBM's intent to support the devices or features named.

Alphabetic List of Fields

At the end of most of the data areas, there is a listing of the field names and bit pattern names in alphabetic order. For the field names, the offset in decimal and hexadecimal is shown; for bit pattern names, the offset in decimal and the hexadecimal representation of the bit pattern are shown.

Examples:

UCBATI 11 (B) A field named UCBATI at offset 11.

UCBALOC 3 X'08'

A bit pattern named UCBALOC at offset 3 with a hexadecimal value of

X'08'.

SRTEVOLI *A* UCBVOLI A field name SRTEVOLI which is an alias for a field named UCBVOLI. The

offset can be found with the second field name.

52 (34) A field at offset 52 with no field name; usually, a reserved field.

How to Locate a Field

To locate a particular field or bit setting, you can take one of several paths. If you know the data area name and the offset, you can go directly to the field description in the listing of the data area by offset. If you know the name of the field, you can use the following table to find the data area name; then, you can use the alphabetic field list at the end of the data area to find the offset within the data area. The entries in the table are also index entries for ease in locating the data area you need.

Field Prefix	Data Area Name
$\overline{\text{CD}}$	Contents Directory Entry
CDE	Contents Directory Entry
CVT	Communication Vector Table
DCB	Data Control Block
DEB	Data Extent Block
DEC	Data Event Control Block
DECB	Data Event Control Block
DS1	Identifier Data Set Control Block
DS2	Index Data Set Control Block
DS3	Extension Data Set Control Block
DS4	VTOC Data Set Control Block
DS5	Available Space Data Set Control Block
DS6	Shared Extent Data Set Control Block
FLC	Fixed LowCore
FL1	Data Set Label 1
FL2	Data Set Label 2
ECB	Event Control Block
ICB	Interruption Control Block

IOB Input/Output Block
JFC Job File Control Block
JFCB Job File Control Block
JSCB Job Step Control Block
LCB Line Control Block

PDS Partitioned Data Set Directory Entry

RB Request Block

SCVT Secondary Communication Vector Table

SMCA System Management Control Area

TCB Task Control Block
TCT Timing Control Table
TIOT Task Input/Output Table
UCB Unit Control Block

VOL Volume Label

TIME SHARING DATA AREAS

DPA Driver Parameter Area
ECT Environment Control Table
PSCB Protected Step Control Block
TJB Time-Sharing Job Block

TJBX Time-Sharing Job Block Extension

TSIA Time-Sharing Interface Area

TSCVT Time-Sharing Communication Vector Table

UPT User Profile Table

Contents Directory Entry

The contents supervision feature of the supervisor determines the location of requested programs, fetches the program to storage if necessary and schedules the execution of these programs for the requesting tasks. As a byproduct of these functions, records are kept of all programs in storage.

One of these records is the contents directory entry (CDE), which describes the requested module. Each area of storage occupied by a job step has a contents directory recording each load module requested by the step. Entries in the contents directory (CDEs) contain the names of load modules and pointers to their entry points. The CDE is initialized with descriptive information from the input parameters of the request. When the module is located, its attributes are further recorded in the CDE.

If the caller has specified an alias entry point within the called module, two contents directory entries are created for that module. One, the major CDE, contains the main entry point name; the other the minor CDE, contains the alias entry point name.

CDEs are maintained either within a job pack area control queue (JPACQ), which is pointed to by the TCBJPQ field of the task control block, or within a link pack area control queue (LPACQ), which contains CDEs describing modules resident in the link pack area.

OF	FSET	LENGT	H NAME	DESCRIPTION
0	(0)	4	CDCHAIN	SAME AS CDCHAINA BELOW
0		1	CDATTR CDNIP	ATTRIBUTE FLAGS MODULE LOADED BY NIP OR FIXED/MODIFIED LPA MODULE
	1.	1 1 .1	CDSER CDNFN CDMIN CDJPA	MODULE IS IN PROCESS OF BEING LOADED MODULE IS REENTERABLE MODULE IS SERIALLY REUSABLE MODULE IS NOT REUSABLE (NON-FUNCTIONAL) THIS IS A MINOR CDE MODULE IS IN JOB PACK AREA MODULE IS NOT LOADABLE-ONLY
1	(1)	3	CDCHAINA	ADDRESS OF NEXT CDE IN QUEUE (EITHER JPAQ OR LPAQ)
4	(4)	4	CDRRBP	SAME AS CDRRBPA BELOW
4	(4)	1	CDROLL	BITS 4-7 ARE USED TO EXTEND THE USE COUNT OF A MODULE TO 4095. THE VALUE IN THIS FIELD INDICATES THE NUMBER OF OVERFLOWS IN FIELD CDUSE.
5	(5)	3	CDRRBPA	IF THE MODULE IS REENTERABLE, THIS FIELD CONTAINS THE ADDRESS OF THE LAST RB THAT CONTROLLED THE MODULE. IF THE MODULE IS SERIALLY REUSABLE, THIS FIELD CONTAINS THE ADDRESS OF THE RB AT THE TOP OF THE WAITING (RBPGMQ) QUEUE. IF THE MODULE WAS REQUESTED ONLY THROUGH LOAD MACRO INSTRUCTIONS, CONTAINS ZERO.
8	(8)	8	CDNAME	8-BYTE NAME
16	(10)	4	CDENTPT	SAME AS CDENTPTA BELOW
16	(10)	1	CDUSE	VALUE CONTAINS THE MODULE USE COUNT AND MUST BE USED IN CONJUNCTION WITH BITS 4-7 OF CDROLL
17	(11)	3	CDENTPTA	MODULE'S RELOCATED ENTRY POINT ADDRESS
20	(14)	4	CDXLMJP	SAME AS CDXLMJPA BELOW
20	1		CDATTR2 CDSPZ CDREL	SECOND ATTRIBUTE FIELD MODULE IS IN SUBPOOL ZERO MODULE IS INACTIVE AND MAY BE RELEASED BY THE GETMAIN ROUTINE (CDPURGE)
	1.	••••	CDXLE	EXTENT LIST HAS BEEN BUILT FOR MODULE. MAIN STORAGE OCCUPIED BY MODULE IS DESCRIBED THEREIN.
	1	• • • •	CDRLC	THIS CDE CONTAINS A MINOR ENTRY POINT ADDRESS THAT HAS BEEN RELOCATED BY THE PROGRAM FETCH ROUTINE
	• • • •	1 .1 1.	CDTSO CDOLY CDERSV02 CDAUTH	THIS IS A TSLPA CDE MODULE IS IN OVERLAY FORMAT RESERVED PROGRAM AUTHORIZATION FLAG
21	(15)	3	CDXLMJPA	EXTENT LIST ADDRESS OR MAJOR CDE ADDRESS IF THIS CDE IS A MINOR

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
CDATTR	0 (0)				
CDATTR2	20 (14)				
CDAUTH	20 X'01'				
CDCHAIN	0 (0)				
CDCHAINA	1 (1)				
CDENTPT	16 (10)				
CDENTPTA	17 (11)				
CDERSV02	20 X'02'				
CDJPA	0 X'02'				
CDMIN	0 X'04'				
CDNAME	8 (8)				
CDNFN	0 X'08'				
CDNIC	0 X'40'				
CDNIP	0 X'80'				
CDNLR	0 X'01'				
CDOLY	20 X'04'				
CDREL	20 X'40'				
CDREN	0 X'20'				
CDRLC.	20 X'10'				
CDROLL	4 (4)				
CDRRBP	4 (4)				
CDRRBPA	5 (5)				
CDSER	0 X'10'				
CDSPZ	20 X'80'				
CDTSO	20 X'08'				
CDUSE	16 (10)				
CDXLE	20 X'20'				
CDXLMJP	20 (14)				
CDXLMJPA	21 (15)				
		E	ND OF CDE		

Communication Vector Table

The communication vector table (CVT) provides the means whereby nonresident routines may refer to information in the nucleus of the control program; it contains addresses of other control blocks and tables which are used by control program routines. The

CVT is part of the fixed nucleus. During the nucleus initialization process (NIP), the address of the CVT is placed in a permanently fixed area of real storage at decimal address 16 (hexadecimal 10). The CVT address is also placed at address 76 (hexadecimal 4C). These addresses point to the CVT but are not a part of the CVT.

<u>OF</u>	FFSET	LENGT	H NAME	DESCRIPTION
		BEG	INNING OF CV	T PREFIX
-256	(-100)	248		RESERVED
-8	(-8)	2		RESERVED
-6	(-6)	2	CVTMDL	CPU MODEL NUMBER IN SIGNLESS PACKED DECIMAL, I.E., A MODEL 145 WOULD BE REPRESENTED AS 0145 HEX
-4	(-4)	4	CVTRELNO	OS RELEASE NUMBER (CHAR)
-4	(-4)	2	CVTNUMB .	RELEASE NUMBER
-2	(-2)	2	CVTLEVL	RELEASE LEVEL
		END	OF CVT PREF	IX
0	(0)	4	CVTTCBP	ADDR OF NEXT AND CURRENT TCB POINTER LIST (IEATCBP)
4	(4)	4	CVT0EF00	ADDR OF ROUTINE TO SCHEDULE ASYNCHRONOUS EXITS (IEAOEF00)
8	(8)	4	CVTLINK	ADDR OF SYS1.LINKLIB DCB (IEFLINK)
12	(C)	4	CVTJOB	ADDR OF SYS1.JOBQE DCB (IEFJOB)
16	(10)	4	CVTBUF	ADDR OF BUFFER FOR RESIDENT CONSOLE INTERRUPTION ROUTINE
20	(14)	4	CVTXAPG	ADDR OF IOS APPENDAGE VECTOR TABLE (IECXAPG)
24	(18)	4	CVT0VL00	ENTRY POINT ADDR OF ADDR VALIDITY CHECKING ROUTINE FOR SUPERVISOR (IEAOVLOO)
28	(1C)	4	CVTPCNVT	ENTRY POINT ADDR OF ROUTINE FOR CONVERTING RELATIVE TRACK ADDR TO ABSOLUTE (IECPCNVT)
32	(20)	4	CVTPRLTV	ENTRY POINT ADDR OF ROUTINE FOR CONVERTING ABSOLUTE TRACK ADDR TO RELATIVE (IECPRLTV)
36	(24)	4	CVTILK1	ADDR OF CHANNEL AND CONTROL UNIT SECTION IN UCB LOOKUP TABLE (IECILK1)
40	(23)	4	CVTILK2	ADDR OF UCB HALFWORD ADDR LIST SECTION IN UCB LOOKUP TABLE (IECILK2)
44	(2C)	4	CVTXTLER	ENTRY POINT ADDR TO XCTL ROUTINE FOR SYSTEM ERROR TRANSIENT AREA ROUTINES (IECXTLER)
48	(30)	4	CVTSYSAD	ADDR OF SYSTEM RESIDENCE VOLUME ENTRY IN UCB
52	(34)	4	CVTBTERM	ENTRY POINT ADDR OF ABTERM ROUTINE (IEAOABOO)
56	(38)	4	CVTDATE	LOCAL DATE IN PACKED DECIMAL
60	(3C)	4	CVTMSLT	ADDR OF MASTER COMMON AREA PLEASE USE CVTMSER INSTEAD TO ADDRESS MASTER SCHEDULER RESIDENT DATA AREA (IEEMSER)
64	(40)	4	CVTZDTAB	ADDR OF I/O DEVICE CHARACTERISTIC TABLE (IECZDTAB)
68	(44)	4	CVTXITP	ADDR OF ERROR INTERPRETER ROUTINE (IECXITP)
72	(48)	4	CVTDAR	SAME AS CVTDARA BELOW
72	111	1 	CVTRSV02 CVTRSV03	FLAG BYTE SVC DUMP IS IN PROGRESS RESERVED RESERVED RESERVED RESERVED

OFF	SET	LENGTH	H NAME	DESCRIPTION
		1	CVTRSV05 CVTRSV06 CVTRSV07	RESERVED RESERVED
73	(49)	3	CVTDARA	ADDR OF SYS1.DUMP I/O CONTROL BLOCKS FOR DAMAGE ASSESSMENT ROUTINES (VS1) ADDRESS OF DCB FOR SYS1.DUMP DATA SET (VS2)
76	(4C)	4	CVT0FN00	RESERVED (VS2)
84	(54)	4	CVTSVDCB	ADDR OF SYS1.SVCLIB DCB (IEASVDCB)
88	(58)	4	CVTTPC	ADDR OF TIMER SUPERVISOR WORK AREA (IEATPC)
92	(5C)	4	CVTPBLDL	BALR ENTRY POINT ADDR OF BLDL (IECPBLDL)
96	(60)	4	CVTSJQ	RESERVED (VS2)
100	(64)	4	CVTCUCB	ADDR OF TABLE CONTAINING CONSOLE UCB ADDR (IEECUCB)
104	(68)	4	CVTQTE00	ADDR OF TIMER ENQUEUE ROUTINE FOR INTERVAL TIMER (IEAQTE00)
108	(6C)	4	CVTQTD00	ADDR OF TIMER DEQUEUE ROUTINE FOR INTERVAL TIMER (IEAQTD00)
112	(70)	4	CVTSTB	ADDR OF I/O DEVICE STATISTIC TABLE (IECSTB)
116	.1.	1 	CVTDCB CVTRSV08 CVT1SSS CVT2SPS CVT4MS1 CVTRSV09 CVT4MPS CVT6DAT CVTRSV10	OPERATING SYSTEM RESERVED OPTION 1 OPTION 2 , VS1 OPTION 4, VS2 RESERVED NOT USED DYNAMIC ADDRESS TRANSLATION BY CPU (VS1, VS2) RESERVED
117	(75)	3	CVTDCBA	ADDR OF DCB FOR SER SYS1.LOGREC (IFBDCB)
120	(78)	4	CVTIOQET	ADDR OF I/O QUEUE ELEMENT TABLE (IECIOQET)
124	(7C)	4	CVTIXAVL	ADDR OF I/O SUPERVISOR FREELIST POINTER (IECIXAVL)
128	(80)	4	CVTNUCB	LOWEST ADDRESS NOT IN NUCLEUS. ON PAGE BDY
132	(84)	4	CVTFBOSV	ADDR OF PROGRAM FETCH ROUTINE (IEWFBOSV)
136	(88)	4	CVT0DS	ENTRY POINT ADDR OF DISPATCHER (IEAODS)
140	(8C)	4	CVTILCH	ADDR OF LOGICAL CHANNEL WORD TABLE (IECILCH)
144	(90)	4	CVTIERLC	ADDR OF ASYNCHRONOUS EXIT QUEUE (IECIERLC)
148	(94)	4	CVTMSER	ADDR OF MASTER SCHEDULER RESIDENT DATA AREA (IEEMSER)
152	(98)	4	CVTOPT01	BRANCH ENTRY POINT ADDR OF POST ROUTINE (IEAOPTO1)
156	(9C)	4	CVTRSV11	RESERVED
160	(AO)	4	CVTHEAD	ADDR OF FIRST TCB ON READY QUEUE (IEAHEAD)
164	(A4)	1	CVTMZ00	HIGHEST ADDRESS IN VIRTUAL STORAGE
168	(88)	4	CVT1EF00	ADDRESS OF ROUTINE WHICH CREATES IRB'S FOR EXITS
172	(AC)	4	€VTQOCR	ADDR OF SEVENTH GFX PARM LIST WORD (0 IF GFX INACTIVE) VS2
176	(B0)	4	CVTQMWR	ADDR OF QMGR COMMUNICATION DATA AREA (IEFQMWR)

OFF	SET	LENGTI	H NAME	DESCRIPTION
180	(B4)	2	CVTSNCTR	SERIAL DATA SET SEQUENCE NUMBER COUNTER
182			CVTOPTA CVTCCH CVTAPR	MISCELLANEOUS FLAGS CCH OPTION PRESENT AUTOMATIC PATH RETRY I/O RECOVERY MANAGEMENT
	1.		CVTDDR	DYNAMIC DEVICE RECONFIGURATION I/O RECOVERY MANAGEMENT
		1 .1 1.	CVTNIP CVTRSV12 CVTRSV13 CVTASCII CVTXPFP	NIP RUNNING RESERVED RESERVED USAS(CI)I OPTION PRESENT CPU HAS EXTENDED PRECISION FLOATING POINT
183	.1	.1	CVTOPTB CVTPROT CVTRSV14 CVTTOD CVTNLOG CVTAPTHR CVTFP CVTRSV16 CVTRSV17	MISCELLANEOUS FLAGS STORE PROTECTION SYSGENED (VS1) RESERVED CPU HAS TIME OF DAY CLOCK SYS1.LOGREC UNAVAILABLE FOR ERROR RECORDING NIP SETS TO 1 WHEN DEVICE TESTING IS COMPLETE. IF 1, IOS WILL USE AN ALTERNATE PATH TO A DEVICE ON CONDITION CODE 3. THIS IS RESET BY NIP WHEN THE LPA IS INITIALIZED. FETCH PROTECT IS ACTIVE (VS1) RESERVED RESERVED
184	(B8)	1	CVTQCDSR	
188	(BC)	4	CVTQLPAQ	ADDRESS OF POINTER TO MOST RECENT ENTRY ON
				LPA CDE QUEUE (IEAQLPAQ)
192	(C0)	4	CVTRSV18	RESERVED
196	(C4)	4	CVTSMCA	ADDR OF SYSTEM MGT CONTROL AREA
200	(C8)	4	CVTABEND	ADDR OF SECONDARY CVT FOR ABEND IN EOT (VS2) (IEABEND)
204	(CC)	4	CVTUSER	A WORD TO THE USER
208	(D0)	4	CVTMDLDS	RESERVED FOR MODEL-DEPENDENT SUPPORT
216	(D8)	4	CVTTSCE	ADDR OF FIRST TIME SLICE CONTROL ELEMENT
220	(DC)	4	CVTPATCH	ADDR OF FE PATCH AREA (IEAPATCH)
224	(E0)	4	CVTRMS	ADDR OF RMS VECTOR TABLE (IGFRVT)
228	(E4)	4	CVTTSCVT	ADDR OF TIME SHARING CVT (TSO)
228	.1	1 1 .1 .1	CVTTSFLG CVTTSRDY CVTRSV19 CVTRSV20 CVTRSV21 CVTRSV22 CVTRSV23 CVTRSV24 CVTRSV25	TIME SHARING FLAGS (TSO) TIME SHARING READY RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
229	(E5)	3	CVTTSCVB	ADDR OF TIME SHARING CVT (TSO)
232	(E8)	4	CVT0SCR1	ADDR OF RPS SECTOR CONVERTER
236	(EC)	4	CVTGTF	GTF CONTROL WORD
236		1	CVTGTFST CVTGTFS CVTGTFIN CVTGTFSP	GTF FLAG BYTES GTF STATUS GTF NOT ACTIVE GTF STOPPING

OF	FSET I	LENGT	H NAME	DESCRIPTION
	11	1 1	CVTGTFSR CVTGTFAC CVTSTATE CVTTMODE CVTFORM CVTUSR CVTRSV26 CVTRSV27	GTF ACTIVE GTF IN CONTROL PROCESSING A HOOK IF 0 - MODE=INT IF 1 - MODE=EXT FORMAT TRACE TABLE AT ABEND TRACE=USR SPECIFIED RESERVED
237	(ED)	3	CVTGTFA	ADDRESS OF MONITOR CALL VECTOR TABLE (AHLHCTQ)
240	(F0)	4	CVTAQAVT	PTR TO WORD CONTAINING ADDR OF TCAM ADDRESS VECTOR TABLE
240	.1	1	CVTTCMFG CVTTCRDY CVTRSV28 CVTRSV39 CVTRSV31 CVTRSV32 CVTRSV33 CVTRSV34	RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
241	(F1)	3	CVTAQAVB	SAME AS CVTAQVT ABOVE
244	(F4)	4	CVTTATA	ADDR OF TCB ADDR TAB (PO TCB POINTER)
244	(F4)	1	CVTTSKS	MAXIMAL NUMBER OF TCB ADDR TAB ENTRIES
245	(F5)	3	CVTTAT	ADDR OF TCB ADDR TAB (PO TCB POINTER)
248	(F8)	1	CVTSYST	NUMBER OF SYSGENED TCB ADDR TAB ENTRIES
249	(F9)	3		RESERVED
252	(FC)	4	CVTEXT1	ADDRESS OF OS-VS COMMON EXTENSION
256	(100)	4	CVTCBSP	ADDRESS OF ACCESS METHOD CONTROL BLOCK STRUCTURE. IF ZERO, IT INDICATES THAT THE ACCESS METHOD MASTER CATALOG IS NOT OPEN'ED AND AVAILABLE
260	(104)	4	CVTPURG	POINTER TO SUBSYSTEM PURGE ROUTINE
260	(104)	1	CVTRSV35	RESERVED
261	(105)	3	CVTPURGA	ADDRESS OF SUBSYSTEM PURGE ROUTINE
264	(108)	4	CVTAMFF	RESERVED FOR ACCESS METHOD FLAGS
268	(10C)	4	CVTQMSG	POINTER TO INFORMATION TO BE PRINTED BY ABEND
268	(10C)	1	CVTRSV36	RESERVED
269	(10D)	3	CVTQMSGA	ADDRESS OF INFORMATION TO BE PRINTED BY ABEND (IEAQMSGS)
272	(110)	4	CVTDMSR	SAME AS CVTDMSRA BELOW
272	(110)	1	CVTRSV37	RESERVED
273	(111)	3	CVTDMSRA	ADDRESS OF OPEN/CLOSE/EOV SUPERVISORY ROUTINE
276	(114)	4	CVTRSV38	RESERVED
280	(118)	4	CVTRSV39	RESERVED
		VS1	- VS2	COMMON SECTION
284	(11C)	4	CVTREAL	ADDRESS OF THE VIRTUAL STORAGE BYTE FOLLOWING THE HIGHEST VIRTUAL=REAL STORAGE ADDRESS

OFI	FSET	LENGTH	H NAME	DESCRIPTION
288	(120)	4	CVTPTRV	ADDRESS OF PAGING SUPERVISOR GENERAL ROUTINE TO TRANSLATE REAL ADDRESSES TO VIRTUAL (IEAPTRV)
292	(124)	4	CVTMODE	ADDRESS OF ROUTINE TO CHANGE SYSTEM MASK (IEAMODBR)
296	(128)	4	CVTJESCT	ADDRESS OF JES CONTROL TABLE (IEFJESCT)
300	(12C)	4		RESERVED (OS/VS2)
304	(130)	4	CVTTZ	DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME (BIT 31 = 1.048576 SEC)
308	(134)	4	CVTMCHPR	ADDRESS OF MACHINE CHECK PARAMETER LIST
312	(138)	4	CVTEORM	HIGHEST REAL ADDRESS IN STORAGE
316	(13C)	4	CVTERPV	POINTER TO SUBROUTINE IN IOS TO CONVERT CCW DATA ADDRESSES TO VIRTUAL ADDRESSES (IEAERPV)
320	(140)	4	CVTINTLA	ADDRESS OF AREA CONTAINING INTERVAL LENGTH AT WHICH I/O LOAD BALANCING EXCP COUNTS AND RATES ARE COMPUTED (IEAEXINT)
324	(144)	4	CVTAPF	SAME AS CVTAPFA BELOW
324	(144)	1	CVTRSV40	RESERVED
325	(145)	3	CVTAPFA	ADDRESS OF BRANCH ENTRY POINT IN APF ROUTINE (IEAVTEST)
328	(148)	4	CVTEXT2	ADDRESS OF VS1 - VS2 COMMON EXTENSION
328	(148)	1	CVTRSV41	RESERVED
329	(149)	3	CVTEXT2A	SAME AS CVTEXT2 ABOVE
332	(14C)	4	CVTHJES	SAME AS CVTHJESA BELOW
332	(14C)	1	CVTRSV42	RESERVED
333	(14D)	3	CVTHJESA	ADDRESS OF OPTIONAL JOB ENTRY SYSTEM COMMUNICATION VECTOR TABLE
336	(150)	2	CVTRSV43	RESERVED
338	(152)	2	CVTRSV44	RESERVED
340	(154)	4	CVTRSV45	RESERVED
344	(158)	4	CVTRSV46	RESERVED
		VS2	OVERLAY	
348	(15C)	4	CVTRSVA2	RESERVED
352	(160)	4	CVTLPDSR	ADDRESS OF LPA DIRECTORY SEARCH ROUTINE (IEAVVMSR)
356	(164)	4	CVTPVTP	ADDRESS OF PAGE VECTOR TABLE (CSECPVT)
360	(168)	4	CVTLPDIA	ADDRESS OF LPA DIRECTORY. ON PAGE BDY
360	.1.	. 1	CVTDIRST CVTDICOM CVTRSV63 CVTRSV64 CVTRSV65 CVTRSV66 CVTRSV67 CVTRSV68 CVTRSV69	FLAG BYTE LPA DIRECTORY HAS BEEN INITIALIZED BY NIP RESERVED
361	(169)	3	CVTLPDIR	ADDRESS OF LPA DIRECTORY. ON PAGE BDY

OF	FSET	LENGTH	H NAME	DESCRIPTION
364	(16C)	4	CVTPAGE1	ADDRESS OF DCB FOR PRIMARY PAGING DATA SET
368	(170)	4	CVTPGSUP	ADDRESS OF TCB FOR PAGING SUPERVISOR (IHAPGTCB)
372	(174)	4	CVTSLIDA	IDENTITY OF TCB CAUSING SUPERVISOR LOCK BYTE (CVTSYLK) TO BE SET OR IDENTITY OF TCB THAT SECOND EXIT PROCESSING IS FOR WHEN CVTSEIC=1
372	(174) 111	1 1111	CVTSYLK CVTSYLKS	SUPERVISOR LOCK. ONLY ENABLED TASKS MAY BE DISPATCHED SET LOCK BYTE
	• • • •		CVTSYLKR	RESET LOCK BYTE
373	(175)		CVTSLID	SAME AS CVTSLIDA ABOVE
376	(178)		CVTSER	SAME AS CVTSERA BELOW
376			CVTSEFLG CVTSEIC	SECOND EXIT FLAGS INDICATES THAT PAGING SUPERVISOR HAS BRANCHED TO A SECOND EXIT ROUTINE
			CVTRSV70 CVTRSV71	RESERVED RESERVED
	• • •	1	CVTRSV72	RESERVED
		. 1	CVTRSV73 CVTRSV74	RESERVED RESERVED
		1 .	CVTRSV75	RESERVED
	• • •	1	CVTRSV76	RESERVED
377	(179)	3	CVTSERA	SECOND EXIT ROUTINE ADDRESS THAT WILL BE BRANCHED TO BY ABTERM PROLOGUE SHOULD THE SECOND EXIT ROUTINE PROGRAM CHECK
380	(17C)	16	CVTSEG	SEGMENT TABLE INFORMATION
380	(17C)	4	CVTSEGA	VIRTUAL ADDRESS OF USER SEGMENT TABLE
384	(180)	4	CVTSEGB	VIRTUAL ADDRESS OF SYSTEM SEGMENT TABLE
388	(184)	4	CVTSEGC	REAL ADDRESS OF USER SEGMENT TABLE
388	(184)	1	CVTSEGLC	LENGTH IN 64-BYTE UNITS OF USER SEGMENT TABLE
389	(185)	3	CVTSEGCA	REAL ADDRESS OF USER SEGMENT TABLE
392	(188)	4	CVTSEGD	REAL ADDRESS OF SYSTEM SEGMENT TABLE
392	(188)	1	CVTSEGLD	LENGTH IN 64-BYTE UNITS OF SYSTEM SEGMENT TABLE
393	(189)	3	CVTSEGDA	REAL ADDRESS OF SYSTEM SEGMENT TABLE
396	(18C)	1	CVTRSV77	RESERVED
397	(18D)	1	CVTSPVLK	NUMBER OF TASKS WHICH HAVE TERMINATED WHILE OWNING SUPERVISOR LOCK WITHOUT OPERATOR HAVING YET BEEN NOTIFIED
398	1 .1. 1	1 1	CVTPSIC CVTAPGB CVTRSV78	SYSTEM CONTROL FLAGS PAGING SUPERVISOR IN CONTROL APG IS ACTIVE RESERVED DEVSTAT OPTION IN EFFECT. DEVICE ADDRESS FOR
	• • •	. 1	CVTRSV79 CVTRSV80	2319-3330-2314 CAN VARY ACROSS SYSTEMS RESERVED RESERVED GTF HAS SUPPRESSED SUPERVISOR TRACE SVC DUMP HAS SUPPRESSED SUPERVISOR TRACE
399	(18F)	1	CVTAPG	DISPATCHING PRIORITY OF APG.
404	(194)	4	CVTRSCN	ADDRESS OF ROUTINE TO SCAN TCB TREE (IEATRSCN)
408	(198)	4	CVTTAS	ADDRESS OF ROUTINE TO TRANSFER ADDRESS SPACE

OF	FSET	LENGTH	H NAME	DESCRIPTION
412	(19C)	4	CVTPVALD	ADDRESS OF ROUTINE TO CHECK ADDRESSES AS BEING IN A REGION (IEAOVLO2)
416	(1A0)	4	CVTSHRVM	LOWEST ADDRESS OF SHARED VIRTUAL STORAGE AREA. THIS ADDRESS WILL BE EITHER THE BEGINNING OF LPA DIRECTORY OR THE BEGINNING OF LPA UPDATE AREA IF 'MLPA' OPTION WAS USED AT SUPERVISOR INITIALIZATION
420	(1A4)	4	CVTOVL01	ENTRY POINT ADDRESS OF VALIDITY CHECK ROUTINE (IEAOVL01) USED TO COMPARE PROTECT KEY OF AN ADDRESS WITH TCB PROTECT KEY (IEAOVL01)
424	(1A8)	4	CVTPFIXQ	BRANCH ENTRY TO IEAPFIXQ, THE FIX-QUIESCE ROUTINE USED BY TSO BEFORE SWAP TO FREE ALL SVC FIXES (IEAPFIXQ)
428	(1AC)	4	CVTPFIXR	BRANCH ENTRY TO IEAPFIXR, THE FIX-RESTORE ROUTINE USED BY TSO AFTER SWAP (INVERSE OF FIX-QUIESCE) (IEAPFIXR)
432	(1B0)	4	CVTPFIXP	BRANCH ENTRY TO IEAPFIXP, THE FIX-PURGE ROUTINE USED BY STAE, ABEND, ETC., TO GET RID OF OUTSTANDING FIX REQUESTS (IEAPFIXP)
436	(1B4)	4	CVTPTCD	BRANCH ENTRY TO IEAPTCD, THE PAGE-TABLE- CREATE-DESTROY ROUTINE USED BY TSO LOGOFF IN DOING A PSEUDO-FREEPART (IEAPTCD)
440	(1B8)	4	CVTSYSWT	ADDRESS OF THE SMF SYSTEM WAIT TIME COLLECTION AREA (SYSWSAVE)
444	(1BC)	2	CVTRSV81	RESERVED
446	(1BE)	2	CVTRSV82	RESERVED
448	(1C0)	4	CVTRSV83	RESERVED
452	(1C4)	4	CVTRSV84	RESERVED
456	(1C8)	4	CVTRSV85	RESERVED
460	(1CC)	4	CVTRSV86	RESERVED
		os -	- VS COMMO	N EXTENSION ADDRESS OF EXTENSION IS IN CVTEXT1
+0	(0)	4	CVTFACHN	ADDRESS OF CHAIN OF DCB FIELD AREAS (ISAM)
+4	(4)	4	CVTRSV87	RESERVED
+8	(8)	4	CVTRSV88	RESERVED
		VS1 CVTI		COMMON EXTENSION ADDRESS OF EXTENSION IS IN
+0	(0)	4	CVTDSSV	ADDRESS OF THE DSS VECTOR TABLE
+0	(0)	1	CVTRSV89	RESERVED
+1	(1)	3	CVTDSSVA	ADDRESS OF THE DSS VECTOR TABLE (IQADSV00)
+4	(4)	1	CVTNUCLS	USED TO IDENTIFY THE NUCLEUS MEMBER NAME
+5	.1.	1	CVTRSV90 CVTRSV9A CVTRSV9B CVTRSV9C CVTRSV9D CVTRSV9E CVTRSV9F CVTRSV9G CVTRSV9H	RESERVED
	• • • •	'	0.11.0.211	

OFF	SET	LENGT	H NAME	DESCRIPTION
+6	(6)	2	CVTRSV91	RESERVED
+8	(8)	4	CVTDEBVR	ADDRESS OF BRANCH ENTRY POINT OF DEBCHK VERIFY ROUTINE (IFGDEBVR)
+12	(C)	4	CVTRSV92	RESERVED
+16	(10)	4	CVTRSV93	RESERVED
+20	(14)	4	CVTRSV94	RESERVED
+24	(18)	4	CVTQID	SAME AS CVTQIDA BELOW
+24	(18)	1	CVTRSV95	RESERVED
+25	(19)	3	CVTQIDA	ADDRESS OF QID TABLE PREFIX
+28	(1C)	4	CVTOLTEP	POINTER TO CONTROL BLOCK CREATED BY SVC 59 TO POINT TO PSEUDO-DEB'S
+32	(20)	2	CVTRSV96	RESERVED
+34	(22)	2	CVTRSV97	RESERVED
+36	(24)	4	CVTRSV98	RESERVED
+40	(28)	4	CVTRSV99	RESERVED
+44	(2C)	4	CVTRSVA0	RESERVED
+48	(30)	4	CVTRSVA1	RESERVED
		END	OF CVT	

NAME	OFFSETS/	NAME	OFFSETS/	NAME	OFFSETS/
	EQU VALUE		EQU VALUE		EQU VALUE
	-256 (-100) -8 (-8)	CVTILK1 CVTILK2	36 (24) 40 (28)	CVTRSVA2 CVTRSV01	348 (15C) 72 X'40'
	249 (F9)	CVTILKZ	320 (140)	CVTRSV01 CVTRSV02	72 X'40'
	300 (12C)	CVTIOQET	120 (78)	CVTRSV02	72 X'10'
CVTABEND	200 (C8)	CVTIXAVL	124 (7C)	CVTRSV04	72 X'08'
CVTAMFF	264 (108)	CVTJESCT	296 (128)	CVTRSV05	72 X'04'
CVTAPF CVTAPFA	324 (144) 325 (145)	CVTJOB CVTLEVL	12 (C) -2 (-2)	CVTRSV06 CVTRSV07	72 X'02' 72 X'01'
CVTAPFA	399 (18F)	CVTLINK	8 (8)	CVTRSV07	116 X'80'
CVTAPGB	398 X'40'	CVTLPDIA	360 (168)	CVTRSV09	116 X'08'
CVTAPR	182 X'40'	CVTLPDIR	361 (169)	CVTRSV10	116 X ' 01'
CVTAPTHR	183 X'08'	CVTLPDSR	352 (160)	CVTRSV11	156 (9C)
CVTAQAVB CVTAQAVT	241 (F1) 240 (F0)	CVTMCHPR CVTMDL	308 (134) -6 (-6)	CVTRSV12 CVTRSV13	182 X'08' 182 X'04'
CVTASCII	182 X'02'	CVTMDLDS	208 (D0)	CVTRSV13	183 X'40'
CVTBTERM	52 (34)	CVTMODE	292 (124)	CVTRSV16	183 X'02'
CVTBUF	16 (10)	CVTMSER	148 (94)	CVTRSV17	183 X'01'
CVTCBSP CVTCCH	256 (100) 182 X ' 80'	CVTMSLT	60 (3C) 164 (A4)	CVTRSV18	192 (CO)
CVTCCH	398 (18E)	CVTMZ00 CVTNIP	182 X'10'	CVTRSV19 CVTRSV20	228 X'40' 228 X'20'
CVTCUCB	100 (64)	CVTNLOG	183 X'10'	CVTRSV21	228 X'10'
CVTDAR	72 (48)	CVTNUCB	128 (80)	CVTRSV22	228 X'08'
CVTDARA	73 (49)	CVTNUCLS	+4 (4)	CVTRSV23	228 X'04'
CVTDATE CVTDCB	56 (38) 116 (74)	CVTNUMB CVTOLTEP	-4 (-4) +28 (1C)	CVTRSV24 CVTRSV25	228 X'02' 228 X'01'
CVTDCBA	117 (75)	CVTOPTA	182 (B6)	CVTRSV25	236 X'02'
CVTDDR	182 X'20'	CVTOPTB	183 (B7)	CVTRSV27	236 X'01'
CVTDEBVR	+8 (8)	CVTPAGE1	364 (16C)	CVTRSV28	240 X'40'
CVTDICOM	360 X'80'	CVTPATCH	220 (DC)	CVTRSV29	240 X'20'
CVTDIRST CVTDMPLK	360 (168) 72 X ' 80 '	CVTPBLDL CVTPCNVT	92 (5C) 28 (1C)	CVTRSV30 CVTRSV31	240 X'10' 240 X'08'
CVTDMSR	272 (110)	CVTPFIXP	432 (1B0)	CVTRSV37	240 X'04'
CVTDMSRA	273 (111)	CVTPFIXQ	424 (1A8)	CVTRSV33	240 X'02'
CVTDSSV	+0 (0)	CVTPFIXR	428 (1AC)	CVTRSV34	240 X'01'
CVTDSSVA CVTDSTAT	+1 (1) 398 X ' 10 '	CVTPGSUP CVTPRLTV	368 (170) 32 (20)	CVTRSV35 CVTRSV36	260 (104) 268 (10C)
CVTEORM	312 (138)	CVTPRCT	183 X'80'	CVTRSV36	272 (110)
CVTERPV	316 (13C)	CVTPSIC	398 X'80'	CVTRSV38	276 (114)
CVTEXT1	252 (FC)	CVTPTCD	436 (1B4)	CVTRSV39	280 (118)
CVTEXT2	328 (148)	CVTPTRV	288 (120)	CVTRSV40	324 (144)
CVTEXT2A CVTFACHN	329 (149) +0 (0)	CVTPURG CVTPURGA	260 (104) 261 (105)	CVTRSV41 CVTRSV42	328 (148) 332 (14C)
CVTFBOSV	132 (84)	CVTPVALD	412 (19C)	CVTRSV42	336 (150)
CVTFLGS1	72 (48)	CVTPVTP	356 (164)	CVTRSV44	338 (152)
CVTFORM	236 X'08'	CVTQCDSR	184 (B8)	CVTRSV45	340 (154)
CVTFP CVTGTF	183 X'04' 236 (EC)	CVTQID CVTQIDA	+24 (18) +25 (19)	CVTRSV46 CVTRSV63	344 (158) 360 X ' 40'
CVTGTFA	230 (EC) 237 (ED)	CVTQLPAQ	188 (BC)	CVTRSV64	360 X 40'
CVTGTFAC	236 X'CO'	CVTQMSG	268 (10C)	CVTRSV65	360 X'10'
CVTGTFIN	236 X'00'	CVTQMSGA	269 (10D)	CVTRSV66	360 X'08'
CVTGTFS	236 X'CO' 236 X'80'	CVTQMWR CVTQOCR	176 (BO) 172 (AC)	CVTRSV67	360 X'04' 360 X'02'
CVTGTFSP CVTGT F SR	236 X'40'	CVTQTD00	108 (6C)	CVTRSV68 CVTRSV69	360 X 02 360 X'01'
CVTGTFST	236 (EC)	CVTQTE00	104 (68)	CVTRSV70	376 X'40'
CVTGTRCE	398 X'02'	CVTREAL	284 (11C)	CVTRSV71	376 X'20'
CVTHEAD	160 (A0)	CVTRELNO	-4 (-4)	CVTRSV72	376 X'10'
CVTHJES CVTHJESA	332 (14C) 333 (14D)	CVTRMS CVTRSCN	224 (EO) 404 (194)	CVTRSV73 CVTRSV74	376 X'08' 376 X'04'
CVTIERLC	144 (90)	CVTRSVA0	+44 (2C)	CVTRSV74	376 X'02'
CVTILCH	140 (8C)	CVTRSVA1	+48 (30)	CVTRSV76	376 X'01'

NAME	OFFSETS/	<u>NAME</u>	OFFSETS/	NAME	OFFSETS/
CVTRSV77 CVTRSV78 CVTRSV79 CVTRSV80 CVTRSV81 CVTRSV83 CVTRSV84 CVTRSV85 CVTRSV86 CVTRSV86 CVTRSV87 CVTRSV98 CVTRSV9A CVTRSV9A CVTRSV9B CVTRSV9C CVTRSV9C CVTRSV9F CVTRSV9F CVTRSV9F CVTRSV96 CVTRSV97 CVTRSV97 CVTRSV98 CVTRSV99 CVTRSV99 CVTRSV91 CVTRSV96 CVTRSV97 CVTRSV97 CVTRSV98 CVTRSV97 CVTRSV98 CVTRSV97 CVTRSV96 CVTRSV97 CVTRSV97 CVTRSV97 CVTRSV97 CVTRSV97 CVTRSV98 CVTRSCA CVTSEGA CVTSEGA CVTSEGDA CVTSEG	EQU VALUE 396 (18C) 398 X'20' 398 X'04' 444 (1BC) 446 (1BE) 448 (1C0) 456 (1C8) 460 (1CC) +4 (4) +8 (8) +0 (0) +5 X'80' +5 X'40' +5 X'04' +5 X'04' +5 X'04' +5 X'04' +5 X'01' +5 (6) +12 (C) +16 (10) +24 (18) +32 (20) +34 (22) +36 (24) +40 (28) 398 X'01' 376 (178) 380 (17C) 384 (180) 388 (184) 392 (188) 393 (189) 388 (184) 392 (188) 393 (189) 388 (184) 392 (188) 393 (189) 388 (184) 392 (188) 393 (189) 388 (184) 392 (188) 393 (189) 388 (184) 393 (189) 388 (184) 397 (179) 416 (1A0) 96 (60) 373 (1754) 196 (C4) 180 (B4D) 236 X'20' 112 (70) 84 (54) 372 X'00' 372 X'FF' 48 (30) 248 (F8)	CVTSYSWT CVTTAS CVTTAT CVTTATA CVTTCBP CVTTCMFG CVTTCMPG CVTTCDY CVTTMODE CVTTOD CVTTSCE CVTTSCVB CVTTSCVT CVTTSLG CVTTSKS CVTTSRDY CVTTZ CVTUSER CVTUSER CVTXAPG CVTXITP CVTXPFP CVTXTLER CVTZDTAB CVTODS CVTOEFOO CVTOFNOO CVTOPTO 1 CVTOSCR 1 CVTOVLOO CVTOVLO 1 CVT1SSS CVT2SPS CVT4MPS CVT4MS 1 CVT6DAT	EQU VALUE 440 (188) 408 (198) 245 (F5) 244 (F4) 0 (0) 240 (F0) 240 X'80' 236 X'10' 183 X'20' 88 (58) 216 (D8) 229 (E5) 228 (E4) 228 (E4) 224 (F4) 228 X'80' 304 (130) 204 (CC) 236 X'04' 20 (14) 68 (44) 182 X'01' 44 (2C) 64 (40) 136 (88) 4 (4) 76 (4C) 152 (98) 232 (E8) 24 (18) 420 (1A4) 168 (A8) 116 X'40' 116 X'02'		EQU VALUE
	, ,	TON	ID OF CUM		

Data Control Block -- QSAM, BSAM, BPAM, EXCP Access Methods

The data control block is the data area within which data pertinent to the current use of a data set is stored. There is substantial similarity between the DCB formats for use with BSAM, QSAM, BPAM, and EXCP.

OFF	SET	LENGT	H NAME	DESCRIPTION
			ICE INTERFACT	
0	(0)	4	DCBRELAD	PARTITIONED ORGANIZATION DATA SET - ADDRESS (IN THE FORM TTRN) OF MEMBER CURRENTLY USED SYS1.LOGREC DATA SET - IF CCH OPTION HAS BEEN SPECIFIED IN SYSGEN PROCESS, ADDRESS OF A 12-BYTE PARAMETER IN THE EXPANSION OF MACRO INSTRUCTION IGFCATAP
4	(4)	1	DCBKEYCN	KEYED BLOCK OVERHEAD CONSTANT
5	(5)	8	DCBFDAD	FULL DISK ADDRESS IN THE FORM OF MBBCCHHR OF RECORD THAT WAS JUST READ OR WRITTEN
12	(C)	4	DCBDVTBL	SAME AS DCBDVTBA BELOW
12	(C)	1		LAST BYTE OF DCBFDAD
13	(D)	3	DCBDVTBA	ADDRESS OF ENTRY IN I/O DEVICE CHARACTERISTICS TABLE FOR DEVICE BEING USED
16	(10)	1	DCBKEYLE	KEY LENGTH OF DATA SET
17	(11)	1	DCBDEVT	DEVICE TYPE
	1.	1. 11 1 1.1	DCBDV311 DCBDV301 DCBDV303 DCBDV302 DCBDV321 DCBDV314	2311 DISK DRIVE* 2301 PARALLEL DRUM* 2303 SERIAL DRUM* 2302 DISK STORAGE* 2321 DATA CELL DRIVE* 2314 DISK STORAGE FACILITY
18	(12)	2	DCBTRBAL	TRACK BALANCE. NUMBER OF BYTES REMAINING ON CURRENT TRACK AFTER A WRITE OPERATION (THIS QUANTITY MAY BE NEGATIVE IF THERE ARE NO BYTES REMAINING ON TRACK).
		MAG	NETIC TAPE	
0	(0)	12		RESERVED FOR I/O SUPERVISOR
12	(C)	4	DCBBLKCT	BLOCK COUNT FOR EACH VOLUME
16	1	11 1.11 11	DCBMTC	TAPE RECORDING TECHNIQUE FOR 7-TRACK TAPE E - EVEN PARITY T - BCD/EBCDIC TRANSLATION C - DATA CONVERSION ET - EVEN PARITY AND TRANSLATION
17			DCBDEVT DCBDVMT	2400 SERIES MAGNETIC TAPE UNIT (7-TRACK OR 9-TRACK)
	1	11	DCBDVMT3	3400 SERIES MAGNETIC TAPE UNIT
18	(12)	1	DCBDEN	TAPE DENSITY - 2400 SERIES MAGNETIC TAPE UNITS CODE 7-TRACK 9-TRACK
	1	11	DCBMTDN0 DCBMTDN1 DCBMTDN2 DCBMTDN3	0 200 BPI - 1 556 BPI - 2 800 BPI 800 BPI 3 - 1600 BPI
19	(13)	1		RESERVED
		PAP	ER TAPE	
8	(8)	4	DCBLCTBL	ADDRESS OF TRANSLATE TABLE
12	(C)	4		RESERVED

<u>OF</u> 1	FSET LENGTH N	NAME	DESCRIPTION
16	(10) 1 DO	CBCODE	
	.1 I I I I I I I I	OCBPTCDF OCBPTCDB OCBPTCDC OCBPTCDA	I - IBM BCD F - FRIDEN B - BURROUGHS C - NATIONAL CASH REGISTER A - ASCII (8-TRACK)
17	1. Г	OCBPTCDT	T - TELETYPE
	.1.1 I		2671 PAPER TAPE READER
18	(12) 1		RESERVED
19	(13) 1 DO 1 I 1 I	CBPTFLG DCBPTIC DCBPTECT	PAPER TAPE FLAGS INVALID CHARACTER IN LAST RECORD READ END OF RECORD CHARACTER REACHED IN TRANSLATION
		OCBPTUCT	END OF RECORD CHARACTER DETECTED DURING READ IF ONE, UPPER CASE TRANSLATE. IF ZERO, LOWER CASE TRANSLATE
	1 I		ERROR DETECTED ON READ
16	PRINTE (10) 1 DO		NUMBER INDICATING NORMAL PRINTER SPACING
10	l	CBPRSPU	0 - NO SPACING
			1 - SPACE ONE LINE 2 - SPACE TWO LINES
	1 11 I	DCBPRSP3	2 - SPACE TWO LINES 3 - SPACE THREE LINES
17	(11) 1 DO		DEVICE TYPE 1403 PRINTER AND 1404 PRINTER (CONTINUOUS FORM SUPPORT ONLY)
	.1 1.1. I		1443 PRINTER 3211 PRINTER
18	1 I	DCBPRC9	TEST-FOR-PRINTER-OVERFLOW MASK (PRTOV MASK) 9 - TEST FOR CHANNEL 9 OVERFLOW 12 - TEST FOR CHANNEL 12 OVERFLOW
19	(13) 1		RESERVED
	CARI	D READER, (CARD PUNCH
16	(10) 1 DO	CBMODE	MODE OF OPERATION FOR 1442 CARD READ PUNCH (BITS 0-3)
16	.1 I1 I1 I1 I	CBSTACK DCBMODEC DCBMODEE DCBMODEO DCBMODER DCBSTCK2 DCBSTCK1	STACKER SELECTION (BITS 4-7) COLUMN BINARY MODE EBCDIC MODE OPTICAL MARK READ MODE READ COLUMN ELIMINATE MODE STACKER 2 STACKER 1
17	.11 I .11. I .111 I	CBDEVT DCBDVCR0 DCBDVCP0 DCBDVCRP DCBDVCR1 DCBDVCPR	DEVICE TYPE 2540 CARD READER 2540 CARD PUNCH 1442 CARD READ PUNCH 2501 CARD READER 2520 CARD READ PUNCH 3505 CARD READER 3525 CARD PUNCH
18	(12) 1 DO	CBPRTOV	3525 CARD PUNCH WITH PRINT FEATURE: TEST-FOR-PRINTER-OVERFLOW MASK (PRTOV MASK)

OFF	SET I	LENGTH	H NAME	DESCRIPTION
			DCBPRC9 DCBPRC12	9 - TEST FOR CHANNEL 9 OVERFLOW 12 - TEST FOR CHANNEL 12 OVERFLOW
19	.1	1	DCBFNCBI DCBFNCBR DCBFNCBP	
		OPTI	ICAL READER	AND MAGNETIC CHAR READER
0	(0)	4	DCBWTOID	SAME AS DCBWTOIA BELOW
0	(0)	1		RESERVED
1	(1)	3	DCBWTOIA	A BINARY IDENTIFICATION NUMBER ASSIGNED BY COMMUNICATIONS TASK TO MESSAGE ISSUED BY WTO MACRO. THIS NUMBER IS USED BY THE DOM MACRO WHEN MESSAGE IS NO LONGER REQUIRED (MCS SUPPORT) FOR MAGNETIC CHAR READER - AFTER FIRST READ HAS BEEN ISSUED, CONTAINS ADDRESS OF MAGNETIC INTERRUPT CONTROL BLOCK (MICB) BEING USED BY THE APPENDAGES.
		OPT	ICAL READER	DEVICES (1287,1288)
4	(4)	4	DCBERRCN	SAME AS DCBERRCA BELOW
4	(4)	1		RESERVED
5	(5)	3	DCBERRCA	ADDRESS OF 32 BYTES OF DECLARED STORAGE SPECIFIED BY THE USER IN HIS PROGRAM. THIS STORAGE WILL BE USED BY THE PROGRAMMING SUPPORT AS EIGHT 4-BYTE COUNTERS IN WHICH TOTALS OF CERTAIN 1287 AND 1288 ERROR CONDITIONS ARE ACCUMULATED.
8	(8)	4	DCBDSPLY	SAME AS DCBDSPLA BELOW
8	(8)	1		RESERVED
9	(9)	3	DCBDSPLA	ADDRESS OF DSPLY (BSAM) ROUTINE USED FOR KEYBOARD ENTRY OF A COMPLETE FIELD
12	(C)	4	DCBRESCN	SAME AS DCBRESCA BELOW
12	(C)	4	DCBRDLNE	SAME AS DCBRDLNA BELOW
12	(C)	1		RESERVED
13	(D)	3	DCBRESCA	ADDRESS OF RESCN (BSAM) ROUTINE USED TO FORCE ON-LINE CORRECTION OF UNREADABLE CHARACTERS
13	(D)	3	DCBRDLNA	ADDRESS OF RDLNE (QSAM) ROUTINE USED TO FORCE ON-LINE CORRECTION OF UNREADABLE CHARACTERS
16	1		DCBORBYT DCBORSYN DCBOREOF DCBORBFP	END OF FILE (EOF)
17	(11) .1.1 .1.1	1.11	DCBDVOR7	
18			DCBEIB DCBORNRM	ERROR INDICATOR BYTE THE 1287 OR 1288 SCANNER WAS UNABLE TO LOCATE THE REFERENCE MARK

OFF	SET I	LENGTH	NAME	DESCRIPTION
	1.	••••	DCBORREJ	FOR 1287, A STACKER SELECT COMMAND WAS GIVEN AFTER ALLOTTED TIME HAD ELAPSED AND THE DOCUMENT HAS BEEN PUT IN REJECT POCKET. FOR 1288 UNFORMATTED ONLY, END-OF-PAGE HAS OCCURRED.
			DCBORERR DCBORECK	A NONRECOVERABLE ERROR HAS OCCURRED. AN EQUIPMENT CHECK RESULTED IN AN INCOMPLETE READ
	••••	1.	DCBORWLR DCBORHPR	CHARACTERS FROM THE KEYBOARD. FOR BSAM - A HOPPER EMPTY CONDITION HAS OCCURRED
	• • • •	1	DCBORDCK	A DATA CHECK HAS OCCURRED
19	(13)	1		RESERVED
		MAGN	NETIC CHARACT	TER READER DEVICES
				1419 MAGNETIC CHARACTER READER 1275 OPTICAL READER SORTER
0	(0)	8	DCBSSID	BEFORE DCB IS OPENED - NAME OF USER'S STACKER SELECT ROUTINE.
0	(0)	4		AFTER DCB IS OPENED - DCBWTOID
4	(4)	4	DCBSSAD	ADDRESS OF USER'S STACKER SELECT ROUTINE
4	(4)	1		RESERVED
5	(5)	3	DCBSSADA	ADDRESS OF USER'S STACKER SELECT ROUTINE
8	(8)	4	DCBIMAGE	SAME AS DCBIMAGA BELOW
8	, ,		DCBMRFG DCBMRBCT	BUFFER INDICATOR TWO-BIT BINARY COUNTER WHICH INDICATES INTO WHICH BUFFER STATUS INFORMATION IS TO BE POSTED
9	(9)	3	DCBIMAGA	ADDRESS OF PARAMETER LIST USED TO COMMUNICATE BETWEEN USER'S PROCESSING ROUTINES AND HIS STACKER SELECT ROUTINES
12	(C)	4	DCBECBLT	SAME AS DCBECBLA BELOW
12	(C)	1	DCBMRIND	INDICATOR AND COUNTER BYTE
	111.	• • • •	DCBMRDCT	THREE-BIT BINARY COUNTER OF NUMBER OF DOCUMENTS READ AFTER DISENGAGE
	1	••••	DCBMRSCU	DCB WAS ALTERED WHEN SYNAD ROUTINE WAS ENTERED DUE TO SECONDARY CONTROL UNIT (SCU) ERROR
		1		POCKET LIGHT HAS BEEN TURNED ON
		.1	DCBMRPLS DCBMRERP	POCKET LIGHT 0-6 IS BEING SET ON ERROR RECOVERY PROCEDURE IS EXECUTING FOR
	• • • •	1	DCBMRERS	PRIMARY CONTROL UNIT (PCU) ERROR RECOVERY PROCEDURE IS EXECUTING FOR SECONDARY CONTROL UNIT (SCU)
13	(D)	3	DCBECBLA	ADDRESS OF ECB LIST PASSED TO WAIT MACRO BY CHECK MACRO WHEN NO 1419/1275 IS AVAILABLE FOR PROCESSING
16		1	DCBMRFLG DCBMRSCC	FLAG BYTE FIRST OR SECOND SECONDARY CONTROL UNIT COMMAND CHAIN IS BEING USED
	1.		DCBMRDRU	DEBUGGING MODE IN USE DISENGAGE REQUESTED BY USER DISENGAGE REQUESTED

OFF	SET I	LENGT	H NAME	DESCRIPTION
	• • • •	11	DCBMRPCC	TWO-BIT BINARY COUNTER INDICATING FIRST, SECOND OR THIRD PRIMARY CONTROL UNIT COMMAND CHAIN IS BEING USED
		1.	DCBMRDWT DCBMRUE	WTO MESSAGE MUST BE DELETED UNIT EXCEPTION
17		11.1	DCBDVMR DCBDVORS	
18	(12)	1	DCBAPPIN	AN INDICATOR USED BY THE APPENDAGES TO PASS INFORMATION ABOUT ONE CHANNEL CHAIN TO AN APPENDAGE ASSOCIATED WITH ANOTHER CHANNEL CHAIN
19	(13)	1		RESERVED
		ACCI	ESS METHOD C	OMMON INTERFACE
16	(10)	4	DCBRELB	SAME AS DCBREL BELOW
16	(10)	1	DCBKEYLE	KEY LENGTH OF DATA SET
17	. ,		DCBDEVT DCBDVTRM	DEVICE TYPE TERMINAL. (DD CONTAINS TERM=TS)
17	(11)	3	DCBREL	NUMBER OF RELATIVE TRACKS OR BLOCKS IN THIS DATA SET (BDAM)
20	(14)	4	DCBBUFCB	ADDRESS OF BUFFER POOL CONTROL BLOCK
20	(14)	1	DCBBUFNO	NUMBER OF BUFFERS REQUIRED FOR THIS DATA SET. MAY RANGE FROM 0 TO 255. IF UNBLOCKED SPANNED RECORDS ARE USED, NUMBER OF SEGMENT WORK AREAS REQUIRED FOR THIS DATA SET.
21	(15)	3	DCBBUFCA	ADDRESS OF BUFFER POOL CONTROL BLOCK
24	(18)	2	DCBBUFL	LENGTH OF BUFFER. MAY RANGE FROM 0 TO 32,767.
26	(1A)	2	DCBDSORG	DATA SET ORGANIZATION BEING USED
26	.1	1 .1	DCBDSGPS DCBDSGDA DCBDSGCQ DCBDSGMQ	FIRST BYTE OF DCBDSORG IS - INDEXED SEQUENTIAL ORGANIZATION PS - PHYSICAL SEQUENTIAL ORGANIZATION DA - DIRECT ORGANIZATION RESERVED RESERVED PO - PARTITIONED ORGANIZATION U - UNMOVABLE, THE DATA CONTAINS LOCATION DEPENDENT INFORMATION
27	1		DCBDSRG2 DCBDSGGS DCBDSGTX DCBDSGTQ	SECOND BYTE OF DCBDSORG GS - GRAPHICS ORGANIZATION TX - TCAM LINE GROUP TQ - TCAM MESSAGE QUEUE
28	(1C)	4	DCBIOBAD	ADDRESS OF IOB WHEN CHAINED SCHEDULING IS USED OR FOR 1419/1275
28	(1C)	4	DCBODEB	ADDRESS OF OLD DEB
28	(1C)	1	DCBLNP	3525 PRINTER LINE POSITION COUNTER
28	(1C)	1	DCBQSLM DCB1DVDS	QSAM LOCATE MODE LOGICAL RECORD INTERFACE INDICATOR BYTE FOR UPDAT PROCESSING OF SPANNED RECORDS ONLY ONE DEVICE IS ALLOCATED TO THIS DATA SET
	.1		DCBUPDCM DCBUPDBT	UPDATE COMPLETE, FREE OLD DEB UPDATE BITS UPDATE TO TAKE PLACE

OFF	SET	LENGTH	<u>NAME</u>	DESCRIPTION
			DCBNUPD DCBSVDEB	NO UPDATE TO TAKE PLACE OLD DEB ADDRESS MUST BE SAVED
29	(1D)	3	DCBIOBAA	SAME AS DCBIOBAD ABOVE
29	(1D)	3	DCBODEBA	ADDRESS OF OLD DEB (SPANNED RECORDS AND 3525)
28	(1C)	4	DCBSVCXL	SAME AS DCBSVCXA BELOW
28	(1C)	1		RESERVED
29	(1D)	3	DCBSVCXA	POINTER TO EXIT LIST OF JES C.I. INTERFACE CONTROL SVC
		FOUN	NDATION EXTEN	NSION
32	(20)	4	DCBEODAD	SAME AS DCBEODA BELOW
32	(20)	1	DCBHIARC	HIERARCHY BITS
32	(20)	1	DCBBFTEK	BUFFERING TECHNIQUE BITS
32	1		DCBBFALN DCBH1 DCBBFT DCBBFTA	BUFFER ALIGNMENT BITS HIERARCHY 1 MAIN STORAGE - BIT 5 IS ZERO* BUFFERING TECHNIQUE QSAM LOCATE MODE PROCESSING OF SPANNED RECORDS - OPEN IS TO CONSTRUCT A RECORD AREA IF IT AUTOMATICALLY CONSTRUCTS BUFFERS
	.1		DCBBFTR DCBBFTS	FOR BSAM CREATE BDAM PROCESSING OF UNBLOCKED SPANNED RECORDS - SOFTWARE TRACK OVERFLOW. FOR BSAM INPUT PROCESSING OF UNBLOCKED SPANNED RECORDS WITH KEYS - RECORD OFFSET PROCESSING. SIMPLE BUFFERING - BIT 3 IS ZERO
	1.	• • • •	DCBBFTKR	UNBLOCKED SPANNED RECORDS - SOFTWARE TRACK OVERFLOW (BDAM)
		1	DCBBFTE	EXCHANGE BUFFERING - BIT 1 IS ZERO
		1	DCBBFTKD DCBH0	DYNAMIC BUFFERING (BTAM) HIERARCHY 0 MAIN STORAGE - BIT 0 IS ZERO*
		11	DCBBFA DCBBFAD	BUFFER ALIGNMENT DOUBLEWORD BOUNDARY
		1.	DCBBFAF1	FULLWORD NOT A DOUBLEWORD BOUNDARY, CODED IN DCB MACRO INSTRUCTION
	• • • •	11	DCBBFAF2	FULLWORD NOT A DOUBLEWORD BOUNDARY, CODED IN DCB MACRO INSTRUCTION
33	(21)	3	DCBEODA	ADDRESS OF A USER-PROVIDED ROUTINE TO HANDLE END-OF-DATA CONDITIONS
36	(24)	4	DCBEXLST	ADDRESS OF USER-PROVIDED LIST OF EXITS
36	111.	. 1	DCBRECFM DCBRECLA DCBRECL DCBRECL DCBRECF DCBRECV DCBRECU DCBRECTO DCBRECBR	RECORD FORMAT RECORD LENGTH INDICATOR - ASCII ASCII VARIABLE RECORD LENGTH RECORD LENGTH INDICATOR FIXED RECORD LENGTH VARIABLE RECORD LENGTH UNDEFINED RECORD LENGTH TRACK OVERFLOW BLOCKED RECORDS FOR FIXED LENGTH RECORD FORMAT - STANDARD BLOCKS. FOR VARIABLE LENGTH RECORD FORMAT - SPANNED RECORDS
	• • • •	11.	DCBRECCC DCBRECCA DCBRECCM DCBRECC DCBRECKL	CONTROL CHARACTER INDICATOR ASA CONTROL CHARACTER MACHINE CONTROL CHARACTER NO CONTROL CHARACTER KEY LENGTH (KEYLEN) WAS SPECIFIED IN DCB MACRO INSTRUCTION

OF	FSET	LENGT	H NAME	DESCRIPTION
37	(25)	3	DCBEXLSA	ADDRESS OF USER-PROVIDED LIST OF EXITS
		F	OUNDATION BE	FORE OPEN
40	(28)	8	DCBDDNAM	NAME ON THE DD STATEMENT WHICH DEFINES THE DATA SET ASSOCIATED WITH THIS DCB
48			DCBOFLGS DCBOFLWR	FLAGS USED BY OPEN ROUTINE IF ZERO, LAST I/O OPERATION WAS READ OR POINT. IF ONE, LAST I/O OPERATION WAS WRITE.
	1		DCBOFIOD	DATA SET IS BEING OPENED FOR INPUT OR OUTPUT (BDAM)
			DCBOFLRB DCBOFEOV	LAST I/O OPERATION WAS IN READ BACKWARD MODE SET TO 1 BY EOV WHEN IT CALLS CLOSE ROUTINE FOR CONCATENATION OF DATA SETS WITH UNLIKE ATTRIBUTES
		1		AN OPEN HAS BEEN SUCCESSFULLY COMPLETED SET TO 1 BY PROBLEM PROGRAM TO INDICATE CONCATENATION OF UNLIKE ATTRIBUTES
		1		TAPE MARK HAS BEEN READ SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN THAT FUNCTION TAKES A USER EXIT. SET TO ON RETURN FROM USER EXIT TO THE I/O SUPPORT FUNCTION WHICH TOOK THE EXIT.
	• • •	1	DCBOFIOF	SET TO 1 BY AN I/O SUPPORT FUNCTION IF DCB IS TO BE PROCESSED BY THAT FUNCTION
49	(31)	1	DCBIFLG	FLAGS USED BY IOS IN COMMUNICATING ERROR CONDITIONS AND IN DETERMINING CORRECTIVE PROCEDURES
	.1.		DCBIBEC DCBIFNEP DCBEX DCBIFPEC DCBIBPCT DCBIFC9 DCBIFC12 DCBIBIOE DCBIFER DCBIFNE1 DCBIFTIM DCBIFNE2 DCBIFNE3	ERROR CORRECTION INDICATOR NOT IN ERROR PROCEDURE ERROR CORRECTION OR IOS PAGE FIX IN PROCESS PERMANENT ERROR CORRECTION PRINTER CARRIAGE TAPE PUNCH INDICATOR CHANNEL 9 PRINTER CARRIAGE TAPE PUNCH SENSED CHANNEL 12 PRINTER CARRIAGE TAPE PUNCH SENSED IOS ERROR ROUTINE USE INDICATOR ALWAYS USE I/O SUPERVISOR ERROR ROUTINE NEVER USE I/O SUPERVISOR ERROR PROCEDURE (BTAM) NEVER USE I/O SUPERVISOR ERROR ROUTINE NEVER USE I/O SUPERVISOR ERROR ROUTINE NEVER USE I/O SUPERVISOR ERROR ROUTINE
50	(32)	2	DCBMACR	MACRO INSTRUCTION REFERENCE
50	1	• • • • •	DCBMACR1 DCBMRECP	FIRST BYTE OF DCBMACR EXECUTE CHANNEL PROGRAM (EXCP) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, QISAM, BDAM) RESERVED (BTAM)
	.1.		DCBMRGET	FOUNDATION EXTENSION IS PRESENT (EXCP) GET (QSAM, QISAM, TCAM) PUT FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (BTAM)
	1		DCBMRRD DCBMRWRQ	APPENDAGES ARE REQUIRED (EXCP) READ (BSAM, BPAM, BISAM, BDAM, BTAM) WRITE FOR LINE GROUP (QTAM)* ALWAYS ZERO (QSAM, QISAM)
	• • •	1 1 1	DCBMRMVG	COMMON INTERFACE (EXCP) MOVE MODE OF GET (QSAM, QISAM) KEY SEGMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) DESERVED (BSAM, BDAM, BTAM)
		. 1	DCBMRLCG	(BISAM) RESERVED (BSAM, BPAM, BTAM) LOCATE MODE OF GET (QSAM, QISAM)

OFF	SET	LENGTH	<u>NAME</u>	DESCRIPTION
		1	DCBMRRDI	ID ARGUMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
		.1	DCBMRABC	USER'S PROGRAM MAINTAINS ACCURATE BLOCK COUNT (EXCP)
		.1	DCBMRPT1	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)
		.1	DCBMRSBG	SUBSTITUTE MODE OF GET (QSAM)
		.1	DCBMRDBF	DYNAMIC BUFFERING (BISAM, BDAM) ALWAYS ZERO (QISAM) RESERVED (BTAM)
		1.	DCBPGFXA	PAGE FIX APPENDAGE IS SPECIFIED (EXCP)
		1.	DCBMRCRL	CNTRL (BSAM, QSAM)
		1.	DCBMRCHK	CHECK (BISAM)
	• • • •	1.	DCBMRRDX	READ EXCLUSIVE (BDAM) RESERVED (BPAM, QISAM, BTAM)
		1	DCBMRDMG DCBMRCK	DATA MODE OF GET (QSAM) CHECK (BDAM) RESERVED (EXCP, BSAM, BPAM, BISAM, QISAM, BTAM)
51	(33)	1	DCBMACR2	SECOND BYTE OF DCBMACR
٠, ر		••••		SETL (QISAM) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
	.1		DCBMRPUT	PUT (QSAM, TCAM) - PUT OR PUTX (QISAM)
	.1	• • • •	DCBMRGTQ	GET FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
			DCBMRWRT	WRITE (BSAM, BPAM, BISAM, BDAM, BTAM)
	1.		DCBMRRDQ	READ FOR LINE GROUP (QTAM)* ALWAYS ZERO
	1		DCDMDMIAD	(QSAM, QISAM) RESERVED (EXCP)
			DCBMRMVP DCBMRWRK	MOVE MODE OF PUT (QSAM, QISAM) KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO
	• • • •	• • • •	DCDMRWRK	(BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
		1	DCBMR5WD	FIVE-WORD DEVICE INTERFACE (EXCP)
		1	DCBMRLDM	LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM)
		1	DCBMRLCP	LOCATE MODE OF PUT (QSAM, QISAM)
	• • • •	1	DCBMRIDW	ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
		.1	DCBMR4WD	FOUR-WORD DEVICE INTERFACE (EXCP)
		.1	DCBMRPT2	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)
		.1	DCBMRTMD	SUBSTITUTE MODE (QSAM)
		.1	DCBMRUIP	UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)
		1.	DCBMR3WD	THREE-WORD DEVICE INTERFACE (EXCP)
		1.		CNTRL (BSAM, QSAM)
		1.	DCBMRSTK DCBMRAWR	SETL BY KEY (QISAM) ADD TYPE OF WRITE (BDAM) ALWAYS ZERO
	• • • •	• • ' •	DCBritAWIX	(BISAM) RESERVED (BPAM, BTAM)
		1	DCBMR 1WD	·
	• • • •	1	DCBMRSWA	USER'S PROGRAM HAS PROVIDED A SEGMENT WORK AREA POOL (BSAM CREATE BDAM, BDAM)
			DCBMRDMD	DATA MODE (QSAM)
	• • • •	1	DCBMRSTI	SETL BY ID (QISAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
		FOUN	NDATION AFTE	R OPEN
40	(28)	2	DCBTIOT	OFFSET FROM TIOT ORIGIN TO TIOELNGH FIELD IN TIOT ENTRY FOR DD STATEMENT ASSOCIATED WITH THIS DCB
42	(2A)	2	DCBMACRF	SAME AS DCBMACR BEFORE OPEN
42	(2A)	. 1	DCBMACF1	FIRST BYTE OF DCBMACRF
43	(2B)	1	DCBMACF2	SECOND BYTE OF DCBMACRF
73	(20)	1	DODITIOL 2	SHOOM BITH OF BODINGM

OFF	SET	LENGT	H NAME	DESCRIPTION
44	(2C)	4	DCBDEBAD	ADDRESS OF ASSOCIATED DEB
.44			DCBIFLGS DCBIFEC DCBIFPCT DCBIFIOE	SAME AS DCBIFLG BEFORE OPEN ERROR CORRECTION INDICATOR PRINTER CARRIAGE TAPE PUNCH INDICATOR IOS ERROR ROUTINE USE INDICATOR
45	(2D)	3	DCBDEBA	ADDRESS OF ASSOCIATED DEB
48	(30)	4	DCBREAD	ADDRESS OF READ MODULE
48	(30)	4	DCBWRITE	ADDRESS OF WRITE MODULE
48	(30)	4	DCBGET	ADDRESS OF GET MODULE
48	(30)	4	DCBPUT	ADDRESS OF PUT MODULE EXCP WITH EXTENSION OR APPENDAGES
52	(34)	1	DCBOPTCD	OPTION CODES
53	(35)	7		RESERVED
		E	XCP APPENDAGI	E LIST
60	(3C)	2	DCBEOEA	END OF EXTENT APPENDAGE ID
62	(3E)	2	DCBPCIA	PROGRAM CONTROLLED INTERRUPTION APPENDAGE ID
64	(40)	2	DCBSIOA	START I/O APPENDAGE ID
66	(42)	2	DCBCENDA	CHANNEL END APPENDAGE ID
68	(44)	2	DCBXENDA	ABNORMAL END APPENDAGE ID
70	(46)	2		RESERVED
		QSAI	M-BSAM-BPAM (COMMON INTERFACE
52	(34)	4	DCBGERR	ADDRESS OF SYNCHRONIZING ROUTINE FOR GET
52	(34)	4	DCBPERR	ADDRESS OF SYNCHRONIZING ROUTINE FOR PUT
52	(34)	4	DCBCHECK	ADDRESS OF CHECK MODULE
52	(34)	1		OPTION CODES WRITE VALIDITY CHECK (DASD) (BSAM, BPAM, QSAM, ISAM, BDAM)
	.1.,		DCBOPTU	ALLOW DATA CHECK CAUSED BY INVALID CHARACTER (1403 PRINTER WITH UCS FEATURE) (BSAM, BPAM, QSAM)
	1.		DCBOPTC	CHAINED SCHEDULING USING PCI (BSAM, BPAM,
	1		DCBOPTH	QSAM) 1287/1288 OPTICAL READER - HOPPER EMPTY EXIT (BSAM, BPAM)
	•••		DCBOPTO	1287 OPTICAL READER - ON-LINE CORRECTION (QSAM)
	•••		DCBBCKPT	CHANNEL-END APPENDAGE IS TO BYPASS DOS EMBEDDED CHECKPOINT RECORDS ON TAPE (BSAM, OSAM)
			DCBOPTQ	TRANSLATION TO OR FROM ASCII (BSAM, BPAM, QSAM)
	• • • •	1	DCBOPTZ	MAGNETIC TAPE DEVICES - USE REDUCED ERROR RECOVERY PROCEDURE (EXCP, BSAM, BPAM, QSAM)
	• • • •	1	DCBSRCHD	USE SEARCH DIRECT, INSTEAD OF SEARCH PREVIOUS, ON RECORD POSITION SENSING DEVICE (EXCP, BSAM, BPAM, QSAM)
		1.	DCBOPTT	USER TOTALING (BSAM, QSAM)
53	(35)	3	DCBGERRA.	ADDRESS OF SYNCHRONIZING ROUTINE FOR GET
53	(35)	3	DCBPERRA	ADDRESS OF SYNCHRONIZING ROUTINE FOR PUT
53	(35)	3	DCBCHCKA	ADDRESS OF CHECK MODULE

OFF	FSET	LENGT	H NAME	DESCRIPTION
56	(38)	4	DCBSYNAD	ADDRESS OF USER-PROVIDED SYNAD ROUTINE
56	(38)	1	DCBIOBL	IOB LENGTH IN DOUBLE WORDS
57	(39)	3	DCBSYNA	ADDRESS OF USER-PROVIDED SYNAD ROUTINE
60	(3C)	1	DCBFLAG1	TCAM APPLICATION PROGRAM FLAGS (BSAM, BPAM, QSAM)
60			DCBCIND1 DCBCNTOV	CONDITION INDICATORS DIRECT ACCESS - TRACK OVERFLOW IN USE (BSAM, BPAM, QSAM) 2540 CARD PUNCH - DATA SET WAS OPENED BUT NO DATA WAS WRITTEN (QSAM)
	1		DCBSTQCK	STOP EQUAL QUICK WAS SPECIFIED FOR APPLICATION PROG. DCBS (TCAM)
		• • • • •		STOP EQUAL FLUSH WAS SPECIFIED FOR APPLICATION PROG. DCBS (TCAM)
			DCBCNSRD DCBCNEVB	SEARCH DIRECT (BSAM, BPAM, QSAM) END OF VOLUME - USED BY EOB ROUTINES (BSAM, BPAM, QSAM)
	• • • •	1	DCBCNEVA	END OF VOLUME - USED BY CHANNEL-END APPENDAGE ROUTINES (BSAM, BPAM, QSAM)
			DCBCNBRM DCBCNEXB	BLOCKED RECORD BIT MODIFIED (BSAM, BPAM, QSAM) EXCHANGE BUFFERING SUPPORTED (QSAM)
61			DCBCIND2 DCBCNSTO	CONDITION INDICATORS PARTITIONED DATA SET - STOW HAS BEEN
				PERFORMED (BSAM, BPAM, QSAM) SEQUENTIAL DATA SET - UPDATE (BSAM, BPAM)
	.1.		DCBCNWR0	DIRECT ORGANIZATION DATA SET - LAST I/O WAS A WRITE RECORD ZERO (BSAM, BPAM, QSAM) SEQUENTIAL DATA SET - UPDATE EOF IS INDICATED
	• • •	1		(BSAM, BPAM) CLOSE IN PROCESS (QSAM) PERMANENT I/O ERROR (BSAM, BPAM, QSAM)
		. 1		OPEN ACQUIRED BUFFER POOL (BSAM, BPAM, QSAM) CHAINED SCHEDULING BEING SUPPORTED (BSAM, BPAM, QSAM)
		1.	DCBCNFEO DCBCNQSM	FEOV BIT (BSAM, BPAM, QSAM) ALWAYS ZERO (BSAM, BPAM) THIS IS A QSAM DCB (QSAM)
62	(3E)	2	DCBBLKSI	MAXIMUM BLOCK SIZE
64	(40)	1	DCBWCPO	OFFSET OF WRITE CHANNEL PROGRAM FROM THE START OF IOB
65	(41)	1	DCBWCPL	LENGTH OF WRITE CHANNEL PROGRAM
66	(42)	1	DCBOFFSR	OFFSET OF READ CCW FROM BSAM/BPAM PREFIX OF IOB
67	(43)	1	DCBOFFSW	OFFSET OF WRITE CCW FROM BSAM/BPAM PREFIX OF IOB
68	(44)	4	DCBIOBA	FOR NORMAL SCHEDULING, ADDRESS OF QSAM OR BSAM/BPAM PREFIX OF IOB. FOR CHAINED SCHEDULING, ADDRESS OF IOB FOR 1419/1275, ADDRESS OF MAGNETIC INTERRUPT CONTROL BLOCK (MICB) CURRENTLY BEING PROCESSED BY READ ROUTINE. FOR TSO TERMINAL DATA SET OPENED FOR INPUT AND FORMAT U, SIMULATED LOW-ORDER FOUR BYTES OF IOBCSW
68	(44)	4	DCBCICB	SAME AS DCBCICBA BELOW
68	(44)	1	DCBNCP	(BSAM, BPAM)

OFF	SET	LENGT	H NAME	DESCRIPTION
69	(45)	3	DCBCICBA	POINTER TO JES C.I.CONTROL BLOCK (CICB)
80	(50)	2	DCBDIRCT	NUMBER OF BYTES USED IN LAST DIRECTORY BLOCK (RANGE 0-254) (BSAM, BPAM)
80	(50)	1	DCBQSWS	FLAG BYTE
80	. ,		DCBUSASI DCBBLBP	FLAG BYTE FOR ASCII TAPES BLOCK PREFIX IS FOUR BYTE FIELD CONTAINING BLOCK LENGTH IN UNPACKED DECIMAL (SPECIFIED BY BUFFER=L).
	11	1	DCBQADFS	USED TO PERFORM SEQUENCE CHECKING WITH MULTIPLE FUNCTION SUPPORT FOR 3525 (BSAM, QSAM)
	1	1	DCBQADF2	FIRST BIT OF DCBQADFS SECOND BIT OF DCBQADFS THIRD BIT OF DCBQADFS TRUNC ENTRY POINT ENTERED (QSAM)
81	(51)	1	DCBBUFOF	BLOCK PREFIX LENGTH (0-99), SPECIFIED BY BUFOFF=N OR BUFOFF=L
81	(51)	1	DCBDIRCQ	NUMBER OF BYTES USED IN LAST DIRECTORY BLOCK (RANGE 0-254) (QSAM)
BSAM-BPAM INTERFACE				
72	(48)	4	DCBEOBR	ADDRESS OF END-OF-BLOCK MODULE FOR READ
72	(48)	1	DCBNCP	NUMBER OF CHANNEL PROGRAMS. NUMBER OF READ OR WRITE REQUESTS WHICH MAY BE ISSUED PRIOR TO A CHECK, NUMBER OF IOB'S GENERATED. (99 MAXIMUM)
73	(49)	3	DCBEOBRA	ADDRESS OF END-OF-BLOCK MODULE FOR READ
76	(4C)	4	DCBEOBW	ADDRESS OF END-OF-BLOCK MODULE FOR WRITE. FOR BSAM CREATE BDAM PROCESSING OF UNBLOCKED SPANNED RECORDS WITH BKTEK=R SPECIFIED, ADDRESS OF SEGMENT WORK AREA CONTROL BLOCK
80	(50)	2		DCBDIRCT - NUMBER OF BYTES USED IN LAST DIRECTORY BLOCK (RANGE 0-254)
82	(52)	2	DCBLRECL	LOGICAL RECORD LENGTH
84	(54)	4	DCBCNTRL	ADDRESS OF CNTRL MODULE
84	(54)	4	DCBNOTE	ADDRESS OF NOTE/POINT MODULE
84	(54)	4	DCBPOINT	ADDRESS OF NOTE/POINT MODULE
QSAM INTERFACE			M INTERFACE	•
72	(48)	4	DCBLCCW	FOR EXCHANGE BUFFERING, ADDRESS OF LAST CCW IN LIST
72	(48)	4	DCBEOBAD	FOR SIMPLE BUFFERING, ADDRESS OF LAST BYTE OF CURRENT BUFFER
76	(4C)	4	DCBCCCW	FOR EXCHANGE BUFFERING, ADDRESS OF CURRENT OR NEXT CCW
76	(4C)	4	DCBRECAD	ADDRESS OF CURRENT OR NEXT LOGICAL RECORD
76		• • • •		FLAG BYTE RELSE MACRO HAS BEEN ISSUED (QSAM WITH SIMPLE BUFFERING)
	1	• • • •	DCBRCTRU	TRUNC MACRO HAS BEEN ISSUED (QSAM LOCATE MODE)
	.1		DCBRCFGT	FIRST GET AFTER OPEN (QSAM LOCATE MODE)

OFF	SET	LENGT	H NAME	DESCRIPTION
77	(4D)	3	DCBRECA	ADDRESS OF CURRENT OR NEXT LOGICAL RECORD
80	(50)	1		DCBQSWS - FLAG BYTE
81	(51)	1		DCBDIRCQ - NUMBER OF BYTES USED IN LAST DIRECTORY BLOCK (RANGE 0-254)
82	(52)	2		DCBLRECL - LOGICAL RECORD LENGTH
84	.1.			ERROR OPTION ACCEPT PERMANENT ERROR SKIP PERMANENT ERROR ABNORMAL END OF TASK
85	(55)	3		DCBCNTRA - ADDRESS OF CNTRL MODULE
88	(58)	2		RESERVED
90	(5A)	2	DCBPRECL	BLOCK LENGTH, MAXIMUM BLOCK LENGTH OR DATA LENGTH
92	(5C)	4	DCBEOB	ADDRESS OF END OF BLOCK MODULE

NAME	OFFSETS/ EQU VALUE	<u>NAME</u>	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	12 (C) 16 (10) 17 (11) 0 (0) 17 (11) 19 (13) 12 (C) 17 (11) 18 (12) 17 (11) 19 (13) 17 (11) 18 (12) 0 (0) 4 (4) 8 (8) 12 (C) 17 (11) 19 (13) 0 (0) 4 (4) 17 (11) 19 (13) 0 (0) 4 (4) 17 (11) 19 (13) 28 (1C) 52 (34) 53 (35) 70 (46)	DCBCHCKA DCBCHECK DCBCICB DCBCICBA DCBCIND1 DCBCIND2 DCBCNBFP DCBCNBRM DCBCNCLO DCBCNEVA DCBCNEVB DCBCNEVB DCBCNEXB DCBCNFEO DCBCNIOE DCBCNSRD DCBCNSRD DCBCNSTO DCBCNTOV DCBCNTOV DCBCNTOV DCBCNTOV DCBCNBCN DCBCNBCN DCBCNBCN DCBCNBCN DCBCNTOV DCBCNTOV DCBCNTOV DCBCNTOV DCBCNTOV DCBCNBCN DCBC	53 (35) 52 (34) 68 (44) 69 (45) 60 (3C) 61 (3D) 61 X'08' 60 X'04' 61 X'20' 60 X'10' 60 X'20' 60 X'10' 61 X'02' 61 X'01' 61 X'02' 61 X'10' 61 X'40' 61 X'80' 60 X'80' 84 (54) 61 X'40' 16 (10) 40 (28) 45 (2D) 44 (2C) 18 (12) 17 (11)	DCBDVPTP DCBDVTBA DCBDVTBL DCBDVTRM DCBDV301 DCBDV302 DCBDV311 DCBDV314 DCBDV321 DCBECBLA DCBECBLA DCBECBLA DCBECBLA DCBECBB DCBEOBA	17 X'50' 13 (D) 12 (C) 17 X'4F' 17 X'22' 17 X'24' 17 X'23' 17 X'21' 17 X'28' 17 X'25' 13 (D) 12 (C) 18 (12) 92 (5C) 72 (48) 73 (49) 76 (4C) 33 (21) 32 (20) 60 (3C) 84 X'20' 84 X'80' 84 (54) 5 (5) 4 (4) 84 X'40'
	68 (44) 80 (50) 80 (50)	DCBDIRCQ DCBDIRCT DCBDSGCQ	81 (51) 80 (50) 26 X'08'	DCBEX DCBEXLSA DCBEXLST	49 X'40' 37 (25) 36 (24)
	81 (51) 82 (52)	DCBDSGCX DCBDSGDA	26 X'10' 26 X'20'	DCBFDAD DCBFLAG1	5 (5) 60 (3C)
DCBACBM	85 (55) 88 (58) 27 X'08'	DCBDSGGS DCBDSGIS DCBDSGMQ	27 X'80' 26 X'80' 26 X'04'	DCBFNCBD DCBFNCBI DCBFNCBP	19 X'08' 19 X'80' 19 X'20'
DCBAPPIN	18 (12) 52 X'10'	DCBDSGPO	26 X'02'	DCBFNCBR	19 X'40'
DCBBCKPT DCBBFA	32 X'03'	DCBDSGPS DCBDSGTQ	26 X'40' 27 X'20'	DCBFNCBT DCBFNCBW	19 X'02' 19 X'10'
DCBBFAD DCBBFAF1	32 X'02' 32 X'01'	DCBDSGTX DCBDSGU	27 X'40' 26 X'01'	DCBFNCBX DCBFUNC	19 X'04' 19 (13)
DCBBFAF2	32 X'03'	DCBDSGG	26 (1A)	DCBGERR	52 (34)
DCBBFALN	32 (20)	DCBDSPLA	9 (9)	DCBGERRA	53 (35)
DCBBFT DCBBFTA	32 X'70' 32 X'60'	DCBDSPLY DCBDSRG1	8 (8) 26 (1A)	DCBGET DCBHIARC	48 (30) 32 (20)
DCBBFTE	32 X'10'	DCBDSRG1	27 (1B)	DCBH1ARC DCBH0	32 (20) 32 X'04'
DCBBFTEK	32 (20)	DCBDVCPR	17 X'45'	DCBH1	32 X'80'
DCBBFTKD	32 X'08'	DCBDVCP0	17 X'42'	DCBIBEC	49 X'CO'
DCBBFTKR DCBBFTR	32 X'20' 32 X'20'	DCBDVCRP DCBDVCR0	17 X'43' 17 X'41'	DCBIBIOE DCBIBPCT	49 X'0C' 49 X'30'
DCBBFTS	32 X'40'	DCBDVCR0 DCBDVCR1	17 X'44'	DCBIFC12	49 X'10'
DCBBLBP	80 X'40'	DCBDVMR	17 X'5D'	DCBIFC9	49 X'20'
DCBBLKCT	12 (C)	DCBDVMT	17 X'81'	DCBIFEC	44 X'CO'
DCBBLKSI DCBBUFCA	62 (3E) 21 (15)	DCBDVMT3 DCBDVORS	17 X'83' 17 X'5F'	DCBIFER DCBIFIOE	49 X'00' 44 X'0C'
DCBBUFCB	20 (14)	DCBDVOR5 DCBDVOR5	17 X'5A'	DCBIFLG	49 (31)
DCBBUFL	24 (18)	DCBDVOR7	17 X'5B'	DCBIFLGS	44 (2C)
DCBBUFNO	20 (14)	DCBDVOR8	17 X'5C'	DCBIFNEP	49 X'00'
DCBBUFOF DCBCCCW	81 (51) 76 (4C)	DCBDVPR1 DCBDVPR2	17 X'48' 17 X'4A'	DCBIFNE1 DCBIFNE2	49 X'04' 49 X'08'
DCBCENDA	66 (42)	DCBDVPR2 DCBDVPR3	17 X'48'	DCBIFNE3	49 X'0C'

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	<u>NAME</u>	OFFSETS/ EQU VALUE
DCBIFPCT DCBIFPEC DCBIFTIM DCBIMAGA DCBIMAGE DCBIOBA DCBIOBAA DCBIOBAD DCBIOBL DCBKEYCN DCBKEYLE DCBLCCW DCBLCTBL DCBLCTBL DCBLNP DCBLRECL	44 X'30' 49 X'C0' 49 X'04' 9 (9) 8 (8) 68 (44) 29 (1D) 28 (1C) 56 (38) 4 (4) 16 (10) 72 (48) 8 (8) 28 (1C) 82 (52)	DCBMRPLS DCBMRPTQ DCBMRPT1 DCBMRPT2 DCBMRPUT DCBMRRD DCBMRRDI DCBMRRDK DCBMRRDK DCBMRRDQ DCBMRRDX DCBMRSBG DCBMRSCC DCBMRSCU DCBMRSTI DCBMRSTK	12 X'04' 50 X'40' 50 X'04' 51 X'04' 51 X'40' 50 X'20' 50 X'10' 51 X'20' 50 X'02' 50 X'04' 16 X'80' 12 X'10' 51 X'01' 51 X'02'	DCBOPTZ DCBORBFP DCBORBYT DCBORDCK DCBORECK DCBOREOF DCBORERR DCBORHPR DCBORNRM DCBORREJ DCBORSYN DCBORWLR DCBPERR DCBPERR	52 X'04' 16 X'20' 16 (10) 18 X'01' 18 X'08' 16 X'40' 18 X'10' 18 X'40' 18 X'20' 16 X'80' 18 X'04' 62 (3E) 52 (34) 53 (35)
DCBMACF1 DCBMACR2 DCBMACRF DCBMACRF DCBMACR1 DCBMACR2 DCBMODE DCBMODE	42 (2A) 43 (2B) 50 (32) 42 (2A) 50 (32) 51 (33) 16 (10) 16 X'80'	DCBMRSTL DCBMRSWA DCBMRTMD DCBMRUE DCBMRUIP DCBMRWRK DCBMRWRQ	51 X'80' 51 X'01' 51 X'04' 16 X'01' 51 X'04' 51 X'10' 50 X'20'	DCBPGFXA DCBPOINT DCBPRC12 DCBPRC9 DCBPRECL DCBPRSP0 DCBPRSP1	50 X'02' 84 (54) 18 X'10' 18 X'20' 90 (5A) 16 X'01' 16 X'09'
DCBMODEE DCBMODEO DCBMODER DCBMRABC DCBMRAPG DCBMRAWR DCBMRBCT	16 X'40' 16 X'20' 16 X'10' 50 X'04' 50 X'20' 51 X'02' 8 X'C0'	DCBMRWRT DCBMR1WD DCBMR3WD DCBMR4WD DCBMR5WD DCBMTC DCBMTDN0 DCBMTDN1	51 X'20' 51 X'01' 51 X'02' 51 X'04' 51 X'08' 16 X'13' 18 X'03' 18 X'43'	DCBPRSP2 DCBPRSP3 DCBPRTOV DCBPRTSP DCBPTCDA DCBPTCDB DCBPTCDC DCBPTCDC	16 X'11' 16 X'19' 18 (12) 16 (10) 16 X'04' 16 X'10' 16 X'08' 16 X'20'
DCBMRCHK DCBMRCI DCBMRCK DCBMRCRL DCBMRCTL DCBMRDBF DCBMRDBG DCBMRDCT	50 X'02' 50 X'10' 50 X'01' 50 X'02' 51 X'02' 50 X'04' 16 X'40' 12 X'E0'	DCBMTDN2 DCBMTDN3 DCBMTE DCBMTET DCBMTT DCBNCP DCBNOTE DCBNUPD	18 X'83' 18 X'C3' 16 X'23' 16 X'2B' 16 X'3B' 72 (48) 84 (54) 28 X'30'	DCBPTCDI DCBPTCDN DCBPTCDT DCBPTECR DCBPTECT DCBPTERR DCBPTFLG DCBPTIC	16 X'40' 16 X'80' 16 X'02' 19 X'04' 19 X'08' 19 X'01' 19 (13) 19 X'10'
DCBMRDMD DCBMRDMG DCBMRDR DCBMRDRU DCBMRDWT DCBMRECP DCBMRERP DCBMRERS	51 X'01' 50 X'01' 16 X'10' 16 X'20' 16 X'02' 50 X'80' 12 X'02' 12 X'01'	DCBODEB DCBODEBA DCBOFEOV DCBOFFSR DCBOFFSW DCBOFIOD DCBOFIOF DCBOFIOS	28 (1C) 29 (1D) 48 X'20' 66 (42) 67 (43) 48 X'80' 48 X'01' 48 (30)	DCBPTUCT DCBPUT DCBQADFS DCBQADF1 DCBQADF2 DCBQADF3 DCBQSLM DCBQSTRU	19 X'02' 48 (30) 80 X'38' 80 X'20' 80 X'10' 80 X'08' 28 (1C) 80 X'01'
DCBMRFE DCBMRFG DCBMRFLG DCBMRGET DCBMRIDW DCBMRIND DCBMRLCG DCBMRLCG DCBMRLCP DCBMRLDM DCBMRLDM	50 X'40' 8 (8) 16 (10) 50 X'40' 51 X'40' 51 X'08' 12 (C) 50 X'08' 51 X'08' 51 X'08' 50 X'10'	DCBOFLRB DCBOFLWR DCBOFOPN DCBOFPPC DCBOFTM DCBOFUEX DCBOPTC DCBOPTCD DCBOPTH DCBOPTO DCBOPTO	48 X'40' 48 X'80' 48 X'10' 48 X'08' 48 X'04' 48 X'02' 52 X'20' 52 X'20' 52 X'10' 52 X'10' 52 X'10' 52 X'08'	DCBQSWS DCBRCFGT DCBRCTRU DCBRCTRU DCBRDLNA DCBRDLNE DCBREAD DCBRECA DCBRECAD DCBRECAD DCBRECBR	80 (50) 76 X'40' 76 X'F0' 76 X'80' 13 (D) 12 (C) 48 (30) 77 (4D) 76 (4C) 36 X'10' 76 (4C)
DCBMRMVP DCBMRPCC DCBMRPLO	51 X'10' 16 X'0C' 12 X'08'	DCBOPTT DCBOPTU DCBOPTW	52 X'02' 52 X'40' 52 X'80'	DCBRECC DCBRECCA DCBRECCC	36 X'00' 36 X'04' 36 X'06'

NAME	OFFSETS/	NAME	OFFSETS/	NAME	OFFSETS/
147111111111111111111111111111111111111	EQU VALUE	1711111	EQU VALUE	MAPIL	EQU VALUE
			<u> </u>		<u> </u>
DCBRECCM	36 X'02'				
DCBRECD	36 X'20'				
DCBRECF	36 X'80'				
DCBRECFM	36 (24)				
DCBRECKL	36 X'01'				
DCBRECL	36 X'CO'				
DCBRECLA	36 X'EO'				
DCBRECSB	36 X'08'				
DCBRECTO	36 X'20'				
DCBRECU	36 X'CO'				
DCBRECV	36 X'40'				
DCBREL	17 (11)				
DCBRELAD	0 (0)				
DCBRELB	16 (10)				
DCBRESCA	13 (D)				
DCBRESCN	12 (C)				
DCBSIOA	64 (40) 52 X'04'				
DCBSRCHD DCBSSAD	4 (4)				
DCBSSADA	5 (5)				
DCBSSID	0 (0)				
DCBSTACK	16 (10)				
DCBSTCK1	16 X'01'				
DCBSTCK2	16 X'02'				
DCBSTFLS	60 X'40'				
DCBSTQCK	60 X'80'				
DCBSVCXA	29 (1D)				
DCBSVCXL	28 (1C)				
DCBSVDEB	28 X'10'				
DCBSYNA	57 (39)				
DCBSYNAD	56 (38)				
DCBTIOT	40 (28)				
DCBTRBAL	18 (12)				
DCBTRTCH	16 (10)				
DCBUPDBT	28 X'30'				
DCBUPDCM	28 X'40'				
DCBUPDT	28 X'20'				
DCBUSASI	80 (50)				
DCBWCPL	65 (41)				
DCBWCPO	64 (40)				
DCBWRITE	48 (30)				
DCBWTOIA	1 (1)				
DCBWTOID	0 (0)				
DCBXENDA DCB1DVDS	68 (44) 28 X'80'				
סטעון פטע	20 A 0U	END OF	DOD DVOD CAM		

END OF DCB - EXCP, SAM

Data Control Block -- ISAM

This data control block (DCB) is used by the indexed sequential access method (ISAM) routines and holds data pertinent to the use of a data set that is maintained by the ISAM routines. The common interface and the foundation sections serve the same purpose in all DCBs although the formats may vary slightly for different access method routines.

OFF	SET	LENGT	H NAME	DESCRIPTION
		ACC	ESS METHOD C	OMMON INTERFACE
16	(10)	4	DCBRELB	SAME AS DCBREL BELOW
16	(10)	1	DCBKEYLE	KEY LENGTH OF DATA SET
17			DCBDEVT DCBDVTRM	DEVICE TYPE TERMINAL. (DD CONTAINS TERM=TS)
17	(11)	3	DCBREL	NUMBER OF RELATIVE TRACKS OR BLOCKS IN THIS DATA SET (BDAM)
20	(14)	4	DCBBUFCB	ADDRESS OF BUFFER POOL CONTROL BLOCK
20	(14)	1	DCBBUFNO	NUMBER OF BUFFERS REQUIRED FOR THIS DATA SET. MAY RANGE FROM 0 TO 255. IF UNBLOCKED SPANNED RECORDS ARE USED, NUMBER OF SEGMENT WORK AREAS REQUIRED FOR THIS DATA SET.
21	(15)	3	DCBBUFCA	ADDRESS OF BUFFER POOL CONTROL BLOCK
24	(18)	2	DCBBUFL	LENGTH OF BUFFER. MAY RANGE FROM 0 TO 32,767.
26	(1A)	2	DCBDSORG	DATA SET ORGANIZATION BEING USED
26	11	1	DCBDSGIS DCBDSGPS DCBDSGCX DCBDSGCQ DCBDSGMQ DCBDSGPO	PS - PHYSICAL SEQUENTIAL ORGANIZATION DA - DIRECT ORGANIZATION CX - BTAM LINE GROUP RESERVED RESERVED
27	1 .1. 1	 	DCBDSRG2 DCBDSGGS DCBDSGTX DCBDSGTQ DCBACBM	SECOND BYTE OF DCBDSORG GS - GRAPHICS ORGANIZATION TX - TCAM LINE GROUP TQ - TCAM MESSAGE QUEUE ACCESS METHOD CONTROL BLOCK
28	(1C)	4	DCBIOBAD .	ADDRESS OF IOB WHEN CHAINED SCHEDULING IS USED OR FOR 1419/1275
28	(1C)	4	DCBODEB	ADDRESS OF OLD DEB
28	(1C)	1	DCBLNP	3525 PRINTER LINE POSITION COUNTER
28	1 .1. 1 1	1 	DCBUPDBT DCBUPDT DCBNUPD	QSAM LOCATE MODE LOGICAL RECORD INTERFACE INDICATOR BYTE FOR UPDAT PROCESSING OF SPANNED RECORDS ONLY ONE DEVICE IS ALLOCATED TO THIS DATA SET UPDATE COMPLETE, FREE OLD DEB UPDATE BITS UPDATE TO TAKE PLACE NO UPDATE TO TAKE PLACE OLD DEB ADDRESS MUST BE SAVED
29	(1D)	3	DCBIOBAA	SAME AS DCBIOBAD ABOVE
29	(1D)	3	DCBODEBA	ADDRESS OF OLD DEB
28	(1C)	4	DCBSVCXL	SAME AS DCBSVCXA BELOW
28	(1C)	1		RESERVED
29	(1D)	3	DCBSVCXA	POINTER TO EXIT LIST OF JES C.I. INTERFACE CONTROL SVC

OFF	SET	LENGT	H NAME	DESCRIPTION
		F	OUNDATION EX	TENSION
32	(20)	4	DCBEODAD	SAME AS DCBEODA BELOW
32	(20)	1	DCBHIARC	HIERARCHY BITS
32	(20)	1	DCBBFTEK	BUFFERING TECHNIQUE BITS
32	1		DCBBFALN DCBH1	BUFFER ALIGNMENT BITS HIERARCHY 1 MAIN STORAGE - BIT 5 IS ZERO*
	-		DCBBFT DCBBFTA	BUFFERING TECHNIQUE QSAM LOCATE MODE PROCESSING OF SPANNED RECORDS - OPEN IS TO CONSTRUCT A RECORD AREA IF IT AUTOMATICALLY CONSTRUCTS BUFFERS
	1		DCBBFTR	FOR BSAM CREATE BDAM PROCESSING OF UNBLOCKED SPANNED RECORDS - SOFTWARE TRACK OVERFLOW. FOR BSAM INPUT PROCESSING OF UNBLOCKED SPANNED RECORDS WITH KEYS - RECORD OFFSET PROCESSING.
			DCBBFTS DCBBFTKR	SIMPLE BUFFERING - BIT 3 IS ZERO UNBLOCKED SPANNED RECORDS - SOFTWARE TRACK OVERFLOW (BDAM)
		1		EXCHANGE BUFFERING - BIT 1 IS ZERO
		. 1		DYNAMIC BUFFERING (BTAM) HIERARCHY O MAIN STORAGE - BIT O IS ZERO*
		xx	DCBBFA	BUFFER ALIGNMENT
		1.	DCBBFAD DCBBFAF1	DOUBLEWORD BOUNDARY FULLWORD NOT A DOUBLEWORD BOUNDARY, CODED IN
	• • •	11	DCBBFAF2	DCB MACRO INSTRUCTION FULLWORD NOT A DOUBLEWORD BOUNDARY, CODED IN DCB MACRO INSTRUCTION
33	(21)	3	DCBEODA	ADDRESS OF A USER-PROVIDED ROUTINE TO HANDLE END-OF-DATA CONDITIONS
36	(24)	4	DCBEXLST	ADDRESS OF USER-PROVIDED LIST OF EXITS
36	, ,	1		RECORD FORMAT RECORD LENGTH INDICATOR - ASCII
			DCBRECD	ASCII VARIABLE RECORD LENGTH
				RECORD LENGTH INDICATOR FIXED RECORD LENGTH
				VARIABLE RECORD LENGTH
	11.		DCBRECU	UNDEFINED RECORD LENGTH
		1	DCBRECTO DCBRECBR	TRACK OVERFLOW BLOCKED RECORDS
			DCBRECSB	FOR FIXED LENGTH RECORD FORMAT - STANDARD
				BLOCKS. FOR VARIABLE LENGTH RECORD FORMAT - SPANNED RECORDS
		11.	DCBRECCC	CONTROL CHARACTER INDICATOR
		1		ASA CONTROL CHARACTER
		1.		MACHINE CONTROL CHARACTER NO CONTROL CHARACTER
			DCBRECKL	KEY LENGTH (KEYLEN) WAS SPECIFIED IN DCB MACRO INSTRUCTION
37	(25)	3	DCBEXLSA	ADDRESS OF USER-PROVIDED LIST OF EXITS
		FO	UNDATION BEF	ORE OPEN
40	(28)	8	DCBDDNAM	NAME ON THE DD STATEMENT WHICH DEFINES THE DATA SET ASSOCIATED WITH THIS DCB
48			DCBOFLGS DCBOFLWR	FLAGS USED BY OPEN ROUTINE IF ZERO, LAST I/O OPERATION WAS READ OR DOING TO ONE LAST I/O OPERATION WAS READ.
	1		DCBOFIOD	POINT. IF ONE, LAST I/O OPERATION WAS WRITE. DATA SET IS BEING OPENED FOR INPUT OR OUTPUT

OFFSET	LENGT	H NAME	DESCRIPTION
	 1	DCBOFLRB DCBOFEOV	(BDAM) LAST I/O OPERATION WAS IN READ BACKWARD MODE SET TO 1 BY EOV WHEN IT CALLS CLOSE ROUTINE FOR CONCATENATION OF DATA SETS WITH UNLIKE ATTRIBUTES
	.1		AN OPEN HAS BEEN SUCCESSFULLY COMPLETED SET TO 1 BY PROBLEM PROGRAM TO INDICATE CONCATENATION OF UNLIKE ATTRIBUTES
	1	DCBOFTM DCBOFUEX	TAPE MARK HAS BEEN READ SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN THAT FUNCTION TAKES A USER EXIT. SET TO ON RETURN FROM USER EXIT TO THE I/O SUPPORT FUNCTION WHICH TOOK THE EXIT.
••	1	DCBOFIOF	SET TO 1 BY AN I/O SUPPORT FUNCTION IF DCB IS TO BE PROCESSED BY THAT FUNCTION
49 (31) 1	DCBIFLG	FLAGS USED BY IOS IN COMMUNICATING ERROR CONDITIONS AND IN DETERMINING CORRECTIVE PROCEDURES
11		DCBIBEC	ERROR CORRECTION INDICATOR
	• • • • • •	DCBIFNEP	NOT IN ERROR PROCEDURE
		DCBEX DCBIFPEC	ERROR CORRECTION OR IOS PAGE FIX IN PROCESS PERMANENT ERROR CORRECTION
	11	DCBIBPCT	PRINTER CARRIAGE TAPE PUNCH INDICATOR
	1	DCBIFC9	CHANNEL 9 PRINTER CARRIAGE TAPE PUNCH SENSED
	.1	DCBIFC12 DCBIBIOE	CHANNEL 12 PRINTER CARRIAGE TAPE PUNCH SENSED IOS ERROR ROUTINE USE INDICATOR
	• • • • • •	DCBIFER	ALWAYS USE I/O SUPERVISOR ERROR ROUTINE
	1		NEVER USE I/O SUPERVISOR ERROR ROUTINE
	1	DCBIFTIM	TEST IOS MASK (IMSK) FOR ERROR PROCEDURE (BTAM)
••	1	DCBIFNE3	NEVER USE I/O SUPERVISOR ERROR ROUTINE NEVER USE I/O SUPERVISOR ERROR ROUTINE
		DCBMACR	MACRO INSTRUCTION REFERENCE
· · · · · · · · · · · · · · · · · · ·	•	DCBMACR1 DCBMRECP	FIRST BYTE OF DCBMACR EXECUTE CHANNEL PROGRAM (EXCP) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, QISAM, BDAM) RESERVED (BTAM)
_		DCBMRFE	FOUNDATION EXTENSION IS PRESENT (EXCP)
		DCBMRGET DCBMRPTO	GET (QSAM, QISAM, TCAM) PUT FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO
	 1	DCBMRAPG	(BSAM, BPAM, BISAM, BDAM) RESERVED (BTAM) APPENDAGES ARE REQUIRED (EXCP)
	1		READ (BSAM, BPAM, BISAM, BDAM, BTAM)
••	1	DCBMRWRQ	WRITE FOR LINE GROUP (QTAM)* ALWAYS ZERO (QSAM, QISAM)
	.1	DCBMRCI	COMMON INTERFACE (EXCP)
	.1 .1		MOVE MODE OF GET (QSAM, QISAM)
• •		DCBMRRDK	KEY SEGMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) RESERVED (BSAM, BPAM, BTAM)
	1		LOCATE MODE OF GET (QSAM, QISAM)
• •	1	DCBMRRDI	ID ARGUMENT WITH READ (BDAM) ALWAYS ZERO
• •	1	DCBMRABC	(BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM) USER'S PROGRAM MAINTAINS ACCURATE BLOCK COUNT (EXCP)
	1	DCBMRPT1	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)
	1 1	DCBMRSBG DCBMRDBF	SUBSTITUTE MODE OF GET (QSAM) DYNAMIC BUFFERING (BISAM, BDAM) ALWAYS
			ZERO (QISAM) RESERVED (BTAM)
	1.	DCBPGFXA DCBMRCRL	PAGE FIX APPENDAGE IS SPECIFIED (EXCP) CNTRL (BSAM, QSAM)
	1.	DCBMRCKL DCBMRCHK	CHECK (BISAM)

OFF	SET	LENGTH	<u>NAME</u>	DESCRIPTION
		1.	DCBMRRDX	READ EXCLUSIVE (BDAM) RESERVED (BPAM, QISAM, BTAM)
		1	DCBMRDMG DCBMRCK	DATA MODE OF GET (QSAM) CHECK (BDAM) RESERVED (EXCP, BSAM, BPAM, BISAM, QISAM, BTAM)
51		1	DCBMACR2 DCBMRSTL	SECOND BYTE OF DCBMACR SETL (QISAM) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
		• • • •	DCBMRPUT DCBMRGTQ	PUT (QSAM, TCAM) - PUT OR PUTX (QISAM) GET FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
		• • • •	DCBMRWRT DCBMRRDQ	WRITE (BSAM, BPAM, BISAM, BDAM, BTAM) READ FOR LINE GROUP (QTAM)* ALWAYS ZERO (QSAM, QISAM) RESERVED (EXCP)
	1		DCBMRMVP	MOVE MODE OF PUT (QSAM, QISAM)
			DCBMRWRK	KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
		1		FIVE-WORD DEVICE INTERFACE (EXCP) LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM)
		1	DCBMRLDM DCBMRLCP	LOCATE MODE OF PUT (QSAM, QISAM)
		1	DCBMRIDW	ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
		.1	DCBMR4WD	FOUR-WORD DEVICE INTERFACE (EXCP)
		.1	DCBMRPT2	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)
		.1	DCBMRTMD DCBMRUIP	SUBSTITUTE MODE (QSAM) UPDATE IN PLACE (PUTX) (QISAM) ALWAYS
		1.	DCBMR3WD	ZERO (BISAM) RESERVED (BDAM, BTAM) THREE-WORD DEVICE INTERFACE (EXCP)
		1.	DCBMRCTL	CNTRL (BSAM, QSAM)
		1.	DCBMRSTK	SETL BY KEY (QISAM)
		1.	DCBMRAWR	ADD TYPE OF WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
		1	DCBMR1WD	ONE-WORD DEVICE INTERFACE (EXCP)
		1	DCBMRSWA DCBMRDMD	USER'S PROGRAM HAS PROVIDED A SEGMENT WORK AREA POOL (BSAM CREATE BDAM, BDAM) DATA MODE (QSAM)
		1	DCBMRSTI	SETL BY ID (QISAM) ALWAYS ZERO (BISAM)
		T/		RESERVED (BPAM, BTAM)
		FC	OUNDATION AF	
40	(28)	2	DCBTIOT	OFFSET FROM TIOT ORIGIN TO TIOELNGH FIELD IN TIOT ENTRY FOR DD STATEMENT ASSOCIATED WITH THIS DCB
42	(2A)	2	DCBMACRF	SAME AS DCBMACR BEFORE OPEN
42	(2A)	1	DCBMACF1	FIRST BYTE OF DCBMACRF
43	(2B)	1	DCBMACF2	SECOND BYTE OF DCBMACRF
44	(2C)	4	DCBDEBAD	ADDRESS OF ASSOCIATED DEB
44	(2C)	1	DCBIFLGS	SAME AS DCBIFLG BEFORE OPEN
	11		DCBIFEC DCBIFPCT DCBIFIOE	ERROR CORRECTION INDICATOR PRINTER CARRIAGE TAPE PUNCH INDICATOR IOS ERROR ROUTINE USE INDICATOR
45	(2D)	3	DCBDEBA	ADDRESS OF ASSOCIATED DEB
48	(30)	4	DCBGET	ADDRESS OF GET MODULE
48	(30)	4	DCBPUT	ADDRESS OF PUT MODULE

OFF	SET	LENGT	H NAME	DESCRIPTION
		В	ISAM-QISAM	INTERFACE
52	(34)	1	DCBOPTCD DCBOPTW	OPTION CODES WRITE VALIDITY CHECK (DASD) (BSAM, BPAM, OSAM, ISAM, BDAM)
	1.	1 1	DCBOPTUF DCBOPTM DCBOPTI DCBOPTY DCBOPTL DCBOPTR	QSAM, ISAM, BDAM) FULL-TRACK INDEX WRITE MASTER INDEXES INDEPENDENT OVERFLOW AREA CYLINDER OVERFLOW AREA DELETE OPTION REORGANIZATION CRITERIA
53		.1	DCBMACUR DCBMACUW DCBMACAW DCBMACRE	EXTENSION OF DCBMACRF FIELD FOR ISAM UPDATE FOR READ UPDATE TYPE OF WRITE ADD TYPE OF WRITE READ EXCLUSIVE
54	(36)	1	DCBNTM	NUMBER OF TRACKS THAT DETERMINE THE DEVELOPMENT OF A MASTER INDEX MAXIMUM PERMISSABLE VALUE - 99
55	(37)	1	DCBCYLOF	NUMBER OF TRACKS TO BE RESERVED ON EACH PRIME DATA CYLINDER FOR RECORDS THAT OVERFLOW FROM OTHER TRACKS ON THAT CYLINDER
56	(38)	4	DCBSYNAD	ADDRESS OF USER'S SYNAD ROUTINE
60	(3C)	2	DCBRKP	RELATIVE POSITION OF FIRST BYTE OF KEY WITHIN EACH LOGICAL RECORD
62	(3E)	2	DCBBLKSI	BLOCK SIZE
64	(40)	8	DCBLPDT	FOR RESUME LOAD, THE LAST PRIME DATA TRACK ON THE LAST PRIME DATA CYLINDER IN THE FORM MBBCCHHR.
64	(40)	4	DCBMSWA	ADDRESS OF WORK AREA FOR USE BY CONTROL PROGRAM WHEN NEW RECORDS ARE BEING ADDED TO AN EXISTING DATA SET
68	(44)	2	DCBSMSI	NUMBER OF BYTES IN AREA RESERVED TO HOLD HIGHEST LEVEL INDEX
70	(46)	2	DCBSMSW	NUMBER OF BYTES IN WORK AREA USED BY CONTROL PROGRAM WHEN NEW RECORDS ARE BEING ADDED TO DATA SET
72	(48)	4	DCBMSHI	ADDRESS OF STORAGE AREA TO HOLD HIGHEST LEVEL INDEX
72	(48)	1	DCBNCP	NUMBER OF COPIES OF READ-WRITE (TYPE K) CHANNEL PROGRAMS THAT ARE TO BE ESTABLISHED FOR THIS DCB. (99 MAXIMUM)
73	(49)	3	DCBMSHIA	SAME AS DCBMSHI ABOVE
76	(4C)	4	DCBSETL	ADDRESS OF SETL MODULE FOR QISAM. ADDRESS OF CHECK MODULE FOR BISAM
80	(50)	1	DCBEXCD1	FIRST BYTE IN WHICH EXCEPTIONAL CONDITIONS DETECTED IN PROCESSING DATA RECORDS ARE REPORTED TO THE USER
	.1 1. 1	1	_	INVALID DEVICE ADDRESS FOR LOWER LIMIT SPACE NOT FOUND INVALID REQUEST UNCORRECTABLE INPUT ERROR

OFF	SET L	ENGT	H NAME	DESCRIPTION
		_		BLOCK COULD NOT BE REACHED (INPUT) BLOCK COULD NOT BE REACHED (UPDATE)
81	(51)	1	DCBEXCD2	SECOND BYTE IN WHICH EXCEPTIONAL CONDITIONS DETECTED IN PROCESSING DATA RECORDS ARE REPORTED TO THE USER
	1 .1 1.		DCBEXSEQ DCBEXDUP DCBEXCLD DCBEXOFL DCBEXLTH	SEQUENCE CHECK DUPLICATE RECORD DCB CLOSED WHEN ERROR WAS DETECTED OVERFLOW RECORD FOR PUT - LENGTH FIELD OF RECORD LARGER THAN LENGTH INDICATED IN DCBLRECL
		1	DCBEXRDE	READ EXCLUSIVE
82	(52)	2	DCBLRECL	FOR FIXED-LENGTH RECORD FORMATS, LOGICAL RECORD LENGTH. FOR VARIABLE-LENGTH RECORD FORMATS, MAXIMUM LOGICAL RECORD LENGTH OR AN ACTUAL LOGICAL RECORD LENGTH CHANGED DYNAMICALLY BY USER WHEN CREATING THE DATA SET
84	(54)	4	DCBESETL	ADDRESS OF ESETL ROUTINE IN GET MODULE
88	(58)	4	DCBLRAN	ADDRESS OF READ-WRITE K MODULE OR EXCLUSIVE MODULE
92	(5C)	4	DCBLWKN	ADDRESS OF WRITE KN MODULE
96	(60)	4	DCBRELSE	WORK AREA FOR TEMPORARY STORAGE OF REGISTER CONTENTS
100	(64)	4	DCBPUTX	WORK AREA FOR TEMPORARY STORAGE OF REGISTER CONTENTS
104	(68)	4	DCBRELEX	ADDRESS OF READ EXCLUSIVE MODULE
108	(6C)	4	DCBFREED	ADDRESS OF DYNAMIC BUFFERING MODULE
112	(70)	1	DCBHIRTI	NUMBER OF INDEX ENTRIES THAT FIT ON A PRIME DATA TRACK
113	(71)	7	DCBFTMI2	DIRECT ACCESS DEVICE ADDRESS OF FIRST TRACK OF SECOND LEVEL MASTER INDEX (IN THE FORM MBBCCHH)
120	(78)	5	DCBLEMI2	DIRECT ACCESS DEVICE ADDRESS OF LAST ACTIVE ENTRY IN SECOND LEVEL MASTER INDEX (IN THE FORM CCHHR)
125	(7D)	7	DCBFTMI3	DIRECT ACCESS DEVICE ADDRESS OF FIRST TRACK OF THIRD LEVEL MASTER INDEX (IN THE FORM MBBCCHH)
132	(84)	5	DCBLEMI3	DIRECT ACCESS DEVICE ADDRESS OF LAST ACTIVE ENTRY IN THIRD LEVEL MASTER INDEX (IN THE FORM CCHHR)
137	(89)	1	DCBNLEV	NUMBER OF LEVELS OF INDEX
138	(AB)	3	DCBFIRSH	HHR OF FIRST DATA RECORD ON EACH CYLINDER. FOR VARIABLE LENGTH RECORD PROCESSING, R PORTION OF THIS FIELD IS ALWAYS X'01'
141		.111	DCBHMASK DCBHMDRM DCBHMNDM	BYTE INDICATING 2301 OR NOT - SET TO X'FF' DEVICE IS 2301 DRUM DEVICE IS OTHER THAN 2301 DRUM
142	(8E)	2	DCBLDT	HH IS THE LAST PRIME DATA TRACK ON EACH CYLINDER
144	(90)	1	DCBHIRCM	HIGHEST POSSIBLE R FOR TRACKS OF THE CYLINDER AND MASTER INDICES

OFF	SET	LENGT	H NAME	DESCRIPTION
145	(91)	1	DCBHIRPD	HIGHEST R ON ANY PRIME TRACK IN DATA SET. FOR VARIABLE-LENGTH RECORDS, THIS REPRESENTS THE GREATEST NUMBER OF PHYSICAL RECORDS ON ANY PRIME TRACK IN THE DATA SET
146	(92)	1	DCBHIROV	FOR FIXED-LENGTH RECORD FORMAT, HIGHEST POSSIBLE R FOR OVERFLOW DATA TRACKS. FOR VARIABLE-LENGTH RECORD FORMAT, UNUSED.
147	(93)	1	DCBHIRSH	FOR FIXED-LENGTH RECORD FORMAT, R OF LAST DATA RECORD ON A SHARED TRACK, IF APPLICABLE. FOR VARIABLE-LENGTH RECORD FORMAT, UNUSED.
148	(94)	2	DCBTDC	USER-SUPPLIED NUMBER OF RECORDS TAGGED FOR DELETION.
150	(96)	2	DCBNCRHI	NUMBER OF STORAGE LOCATIONS NEEDED TO HOLD THE HIGHEST LEVEL INDEX
152	(98)	4	DCBRORG3	FOR EACH USE OF DATA SET, NUMBER OF READ OR WRITE ACCESSES TO AN OVERFLOW RECORD WHICH IS NOT FIRST IN A CHAIN OF SUCH RECORDS
156	(9C)	4	DCBNREC	NUMBER OF LOGICAL RECORDS IN PRIME DATA AREA
160	(A0) 1		DCBST DCBSTSSM	STATUS INDICATORS SINGLE SCHEDULE MODE
			DCBSTKSQ DCBSTLOD	KEY SEQUENCE CHECKING IS TO BE PERFORMED LOADING HAS COMPLETED. SET TO 1 BY CLOSE ROUTINE AND TO 0 BY FIRST EXECUTION OF PUT
	1		DCBSTNCY	ROUTINE. EXTENSION OF DATA SET WILL BEGIN ON NEW CYLINDER
		1.	DCBSTNMC DCBSTLBF DCBSTLTF	FIRST MACRO INSTRUCTION NOT YET RECEIVED LAST BLOCK FULL LAST TRACK FULL
161	(A1)	7	DCBFTCI	DIRECT ACCESS DEVICE ADDRESS OF FIRST TRACK OF CYLINDER INDEX (IN THE FORM MBBCCHH).
168	(A8)	1	DCBHIIOV	FOR FIXED LENGTH RECORD FORMAT, HIGHEST POSSIBLE R FOR INDEPENDENT OVERFLOW DATA TRACKS. FOR VARIABLE LENGTH RECORD FORMAT, UNUSED
169	(A9)	7	DCBFTMI1	DIRECT ACCESS DEVICE ADDRESS OF FIRST TRACK OF FIRST LEVEL MASTER INDEX (IN THE FORM MBBCCHH).
176	(BO)	1	DCBNTHI	NUMBER OF TRACKS OF HIGH-LEVEL INDEX
177	(B1)	7	DCBFTHI	DIRECT ACCESS DEVICE ADDRESS OF FIRST TRACK OF HIGHEST LEVEL INDEX (IN THE FORM MBBCCHH).
184	(B8)	8	DCBLPDA	DIRECT ACCESS DEVICE ADDRESS OF LAST PRIME DATA RECORD IN PRIME DATA AREA (IN THE FORM MBBCCHHR).
192	(CO)	5	DCBLETI	DIRECT ACCESS DEVICE ADDRESS OF LAST ACTIVE NORMAL ENTRY OF TRACK INDEX ON LAST ACTIVE CYLINDER (IN THE FORM CCHHR).
197	(C5)	1	DCBOVDEV	DEVICE TYPE FOR INDEPENDENT OVERFLOW
				S APPLY TO DCBDEVT FOR ISAM DIRECT ACCESS
		1	DCBDVI11 DCBDVI01	2311 DISK DRIVE* 2301 PARALLEL DRUM*
		11	DCBDVI03	2303 SERIAL DRUM*
	• • • •	.1	DCBDVI02	2302 DISK STORAGE*

OFF	SET 1	LENGT	H NAME	DESCRIPTION
			DCBDVI21 DCBDVI14	2321 DATA CELL DRIVE* 2314 DISK STORAGE FACILITY
198	(C6)	2	DCBNBOV	FOR FIXED LENGTH RECORD FORMAT, RESERVED. FOR VARIABLE LENGTH RECORD FORMAT, IF THE INDEPENDENT OVERFLOW OPTION IS SELECTED, CONTAINS, IN BINARY, NUMBER OF BYTES LEFT ON CURRENT TRACK OF INDEPENDENT OVERFLOW AREA
200	(C8)	5	DCBLECI	DIRECT ACCESS DEVICE ADDRESS OF LAST ACTIVE ENTRY IN CYLINDER INDEX (IN THE FORM CCHHR).
205	(CD)	1		RESERVED
206	(CE)	2	DCBRORG2	NUMBER OF TRACKS (PARTIALLY OR WHOLLY) REMAINING IN INDEPENDENT OVERFLOW AREA
208	(D0)	5	DCBLEMI1	DIRECT ACCESS DEVICE ADDRESS OF LAST ACTIVE ENTRY IN FIRST LEVEL MASTER INDEX (IN THE FORM CCHHR).
213	(D5)	1		RESERVED
214	(D6)	2	DCBNOREC	NUMBER OF LOGICAL RECORDS IN AN OVERFLOW AREA
216	(D8)	8	DCBLIOV	DIRECT ACCESS DEVICE ADDRESS OF LAST AREA (IN THE FORM MBBCCHHR).
224	(EO)	2	DCBRORG1	NUMBER OF CYLINDER OVERFLOW AREAS THAT ARE FULL
226	(E2)	2		RESERVED
228	(E4)	4	DCBWKPT1	POINTER TO WORK AREA OR TO CONSTRUCTED CHANNEL PROGRAM FOR WHICH SPACE IS OBTAINED BY GETMAIN MACRO INSTRUCTIONS ISSUED BY OPEN EXECUTORS
232	(E8)	4	DCBWKPT2	ADDITIONAL POINTER AS IN DCBWKPT1
236	(EC)	4	DCBWKPT3	ADDITIONAL POINTER AS IN DCBWKPT1
240	(FO)	4	DCBWKPT4	ADDITIONAL POINTER AS IN DCBWKPT1
244	(F4)	4	DCBWKPT5	ADDITIONAL POINTER AS IN DCBWKPT1
248	(F8)	4	DCBWKPT6	ADDITIONAL POINTER AS IN DCBWKPT1

NAME	OFFSETS/ EQU VALUE	<u>NAME</u>	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	28 (1C) 205 (CD) 213 (D5) 226 (E2)	DCBEXIER DCBEXINV DCBEXLSA DCBEXLST	80 X'08' 80 X'10' 37 (25) 36 (24)	DCBLPDT DCBLRAN DCBLRECL DCBLWKN	64 (40) 88 (58) 82 (52) 92 (5C)
DCBACBM	27 X'08'	DCBEXLTH	81 X'08'	DCBMAC	53 (35)
DCBBFA	32 X'03'	DCBEXNKY	80 X'80'	DCBMACAW	53 X'02'
DCBBFAD DCBBFAF1	32 X'02' 32 X'01'	DCBEXNSP	80 X'20' 80 X'04'	DCBMACF1	42 (2A) 43 (2B)
DCBBFAF2	32 X'03'	DCBEXOER DCBEXOFL	81 X'10'	DCBMACF2 DCBMACR	50 (32)
DCBBFALN	32 (20)	DCBEXRDE	81 X'08'	DCBMACRE	53 X'01'
DCBBFT	32 X'70'	DCBEXSEQ	81 X'80'	DCBMACRF	42 (2A)
DCBBFTA DCBBFTE	32 X'60' 32 X'10'	DCBFIRSH DCBFREED	138 (8A) 108 (6C)	DCBMACR1	50 (32)
DCBBFTEK	32 (20)	DCBFREED	161 (A1)	DCBMACR2 DCBMACUR	51 (33) 53 X'08'
DCBBFTKD	32 X'08'	DCBFTHI	177 (B1)	DCBMACUW	53 X'04'
DCBBFTKR	32 X'20'	DCBFTMI1	169 (A9)	DCBMRABC	50 X'04'
DCBBFTR	32 X'20' 32 X'40'	DCBFTMI2	113 (71) 125 (7D)	DCBMRAPG	50 X'20'
DCBBFTS DCBBLKSI	62 (3E)	DCBFTMI3 DCBGET	48 (30)	DCBMRAWR DCBMRCHK	51 X'02' 50 X'02'
DCBBUFCA	21 (15)	DCBHIARC	32 (20)	DCBMRCI	50 X'10'
DCBBUFCB	20 (14)	DCBHIIOV	168 (A8)	DCBMRCK	50 X'01'
DCBBUFL	24 (18)	DCBHIRCM	144 (90)	DCBMRCRL	50 X'02' 51 X'02'
DCBBUFNO DCBCYLOF	20 (14) 55 (37)	DCBHIROV DCBHIRPD	146 (92) 145 (91)	DCBMRCTL DCBMRDBF	50 X'04'
DCBDDNAM	40 (28)	DCBHIRSH	147 (93)	DCBMRDMD	51 X'01'
DCBDEBA	45 (2D)	DCBHIRTI	112 (70)	DCBMRDMG	50 X'01'
DCBDEBAD	44 (2C)	DCBHMASK	141 (8D)	DCBMRECP	50 X'80'
DCBDEVT DCBDSGCQ	17 (11) 26 X ' 08'	DCBHMDRM DCBHMNDM	141 X'07' 141 X'FF'	DCBMRFE DCBMRGET	50 X'40' 50 X'40'
DCBDSGCX	26 X'10'	DCBH10	32 X'04'	DCBMRGTQ	51 X'40'
DCBDSGDA	26 X'20'	DCBH1	32 X'80'	DCBMRIDW	51 X'08'
DCBDSGGS	27 X'80'	DCBIBEC	49 X'CO'	DCBMRLCG	50 X'08'
DCBDSGIS DCBDSGMQ	26 X'80' 26 X'04'	DCBIBIOE DCBIBPCT	49 X'0C' 49 X'30'	DCBMRLCP DCBMRLDM	51 X'08' 51 X'08'
DCBDSGPO	26 X'02'	DCBIFC12	49 X'10'	DCBMRMVG	50 X'10'
DCBDSGPS	26 X'40'	DCBIFC9	49 X'20'	DCBMRMVP	51 X'10'
DCBDSGTQ	27 X'20'	DCBIFEC	44 X'CO'	DCBMRPTQ	50 X'40'
DCBDSGTX	27 X'40' 26 X'01'	DCBIFER	49 X'00' 44 X'0C'	DCBMRPT1	50 X'04'
DCBDSGU DCBDSORG	26 (1A)	DCBIFIOE DCBIFLG	49 (31)	DCBMRPT2 DCBMRPUT	51 X'04' 51 X'40'
DCBDSRG1	26 (1A)	DCBIFLGS	44 (2C)	DCBMRRD	50 X'20'
DCBDSRG2	27 (1B)	DCBIFNEP	49 X'00'	DCBMRRDI	50 X'08'
DCBDVI01	197 X'02'	DCBIFNE1	49 X'04'	DCBMRRDK	50 X'10'
DCBDVI02 DCBDVI03	197 X'04' 197 X'03'	DCBIFNE2 DCBIFNE3	49 X'08' 49 X'0C'	DCBMRRDQ DCBMRRDX	51 X'20' 50 X'02'
DCBDVI03	197 X'01'	DCBIFPCT	44 X'30'	DCBMRSBG	50 X'04'
DCBDVI14	197 X'08'	DCBIFPEC	49 X'CO'	DCBMRSTI	51 X'01'
DCBDVI21	197 X'05'	DCBIFTIM	49 X'04'	DCBMRSTK	51 X'02'
DCBDVTRM DCBEODA	17 X'4F' 33 (21)	DCBIOBAA DCBIOBAD	29 (1D) 28 (1C)	DCBMRSTL DCBMRSWA	51 X'80'
DCBEODAD	32 (20)	DCBIOBAD	16 (10)	DCBMRTMD	51 X'01' 51 X'04'
DCBESETL	84 (54)	DCBLDT	142 (8E)	DCBMRUIP	51 X'04'
DCBEX	49 X'40'	DCBLECI	200 (C8)	DCBMRWRK	51 X'10'
DCBEXBLI	80 X'02'	DCBLEMI1	208 (D0)	DCBMRWRQ	50 X'20'
DCBEXBLU DCBEXCD1	80 X'01' 80 (50)	DCBLEMI2 DCBLEMI3	120 (78) 132 (84)	DCBMRWRT DCBMR1WD	51 X'20' 51 X'01'
DCBEXCD2	81 (51)	DCBLETI	192 (CO)	DCBMR3WD	51 X'02'
DCBEXCLD	81 X'20'	DCBLIOV	216 (D8)	DCBMR4WD	51 X'04'
DCBEXDUP	81 X'40'	DCBLNP	28 (1C)	DCBMR5WD	51 X'08'
DCBEXIDA	80 X'40'	DCBLPDA	184 (B8)	DCBMSHI	72 (48)

NAME	OFFSETS/ EQU VALUE	<u>NAME</u>	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DCBMSHIA DCBMSWA DCBNBOV DCBNCP DCBNCRHI DCBNLEV DCBNOREC DCBNREC DCBNTHI DCBNTM DCBNUPD DCBODEB DCBOFIOD DCBOFIOF DCBOFIOF DCBOFIOF DCBOFICS DCBOFICS DCBOFICS DCBOFIWR DCBOFPC DCBOFTM DCBOFPC DCBOFTM DCBOPTUF DCBOPTUF DCBOPTUF DCBOPTUF DCBOPTW DCBOPTW DCBOPTW DCBOPTW DCBOPTW DCBOFFC DCBOFTW DCBOFTW DCBOFTW DCBOFTW DCBOPTW DCBOFTW DCBOPTW DCBOFTW D	73 (49) 64 (40) 198 (C6) 72 (48) 150 (96) 137 (89) 214 (D6) 156 (9C) 176 (B0) 54 (36) 28 X'30' 28 (1C) 29 (1D) 48 X'20' 48 X'80' 48 X'90' 48 X'90' 48 X'90' 48 X'90' 52 X'10' 52 X'10' 52 X'10' 52 X'20' 52 X'20' 52 X'10' 52 X'20' 52 X'10' 52 X'90' 52 X'10' 52 X'90' 52 X'10' 52 X'90' 52 X'10' 52 X'90' 536 X'10' 536 X'10' 536 X'10' 336 X'10' 336 X'10' 336 X'10' 336 X'10' 336 X'20' 337 X'20' 337 X'20' 337 X'20' 338 X'20'	DCBSMSI DCBSMSW DCBST DCBSTKSQ DCBSTLBF DCBSTLOD DCBSTLTF DCBSTNCY DCBSTNMC DCBSTSSM DCBSVCXA DCBSVCXL DCBSVDEB DCBSYNAD DCBTDC DCBTIOT DCBUPDBT DCBUPDT DCBWRPT1 DCBWKPT2 DCBWKPT3 DCBWKPT5 DCBWKPT6 DCB1DVDS	68 (44) 70 (46) 160 (A0) 160 X'40' 160 X'20' 160 X'10' 160 X'10' 160 X'80' 29 (1D) 28 (1C) 28 X'10' 56 (38) 148 (94) 40 (28) 28 X'30' 28 X'40' 28 X'20' 228 (E4) 232 (E8) 236 (EC) 240 (F0) 244 (F4) 248 (F8) 28 X'80'		

Data Control Block -- BDAM

This data control block (DCB) contains information pertaining to data sets being processed by basic direct access method (BDAM) routines. The common interface and foundation sections are the same for all DCB formats. The direct access storage device section and the BDAM interface section complete the description of this block.

OFF	SET	LENGT	H NAME	DESCRIPTION
		ACC:	ESS METHOD (COMMON INTERFACE
16	(10)	4	DCBRELB	SAME AS DCBREL BELOW
16	(10)	1	DCBKEYLE	KEY LENGTH OF DATA SET
17			DCBDEVT DCBDVTRM	DEVICE TYPE · TERMINAL. (DD CONTAINS TERM=TS)
17	(11)	3	DCBREL	NUMBER OF RELATIVE TRACKS OR BLOCKS IN THIS DATA SET (BDAM)
20	(14)	4	DCBBUFCB	ADDRESS OF BUFFER POOL CONTROL BLOCK
20	(14)	1	DCBBUFNO	NUMBER OF BUFFERS REQUIRED FOR THIS DATA SET. MAY RANGE FROM 0 TO 255. IF UNBLOCKED SPANNED RECORDS ARE USED, NUMBER OF SEGMENT WORK AREAS REQUIRED FOR THIS DATA SET.
21	(15)	3	DCBBUFCA	ADDRESS OF BUFFER POOL CONTROL BLOCK
24	(18)	2	DCBBUFL	LENGTH OF BUFFER. MAY RANGE FROM 0 TO 32,767.
26	(1A)	2	DCBDSORG	DATA SET ORGANIZATION BEING USED
26	1		DCBDSGCX DCBDSGCQ DCBDSGMQ DCBDSGPO	
27	11.		DCBDSRG2 DCBDSGGS DCBDSGTX DCBDSGTQ DCBACBM	SECOND BYTE OF DCBDSORG GS - GRAPHICS ORGANIZATION TX - TCAM LINE GROUP TQ - TCAM MESSAGE QUEUE ACCESS METHOD CONTROL BLOCK
28	(1C)	4	DCBIOBAD	ADDRESS OF IOB WHEN CHAINED SCHEDULING IS USED OR FOR 1419/1275
28	(1C)	4	DCBODEB	ADDRESS OF OLD DEB
28	(1C)	1	DCBLNP	3525 PRINTER LINE POSITION COUNTER
28	1 .1. 1 1	1 	DCBQSLM DCB1DVDS DCBUPDCM DCBUPDBT DCBUPDT DCBNUPD DCBSVDEB	QSAM LOCATE MODE LOGICAL RECORD INTERFACE INDICATOR BYTE FOR UPDAT PROCESSING OF SPANNED RECORDS ONLY ONE DEVICE IS ALLOCATED TO THIS DATA SET UPDATE COMPLETE, FREE OLD DEB UPDATE BITS UPDATE TO TAKE PLACE NO UPDATE TO TAKE PLACE OLD DEB ADDRESS MUST BE SAVED
29	(1D)	3	DCBIOBAA	SAME AS DCBIOBAD ABOVE
29	(1D)	3	DCBODEBA	ADDRESS OF OLD DEB
28	(1C)	4	DCBSVCXL	SAME AS DCBSVCXA BELOW
28	(1C)	1		RESERVED
29	(1D)	3	DCBSVCXA	POINTER TO EXIT LIST OF JES C.I. INTERFACE CONTROL SVC

OFF	SET	LENGTI	H NAME	DESCRIPTION		
FOUNDATION EXTENSION						
32	(20)	4	DCBEODAD	SAME AS DCBEODA BELOW		
32	(20)	1	DCBHIARC	HIERARCHY BITS		
32	(20)	1	DCBBFTEK	BUFFERING TECHNIQUE BITS		
32	.11	1	DCBBFALN DCBH1 DCBBFT DCBBFTA	BUFFER ALIGNMENT BITS HIERARCHY 1 MAIN STORAGE - BIT 5 IS ZERO* BUFFERING TECHNIQUE QSAM LOCATE MODE PROCESSING OF SPANNED RECORDS - OPEN IS TO CONSTRUCT A RECORD AREA		
	1		DCBBFTR	IF IT AUTOMATICALLY CONSTRUCTS BUFFERS FOR BSAM CREATE BDAM PROCESSING OF UNBLOCKED SPANNED RECORDS - SOFTWARE TRACK OVERFLOW. FOR BSAM INPUT PROCESSING OF UNBLOCKED SPANNED RECORDS WITH KEYS - RECORD OFFSET PROCESSING.		
			DCBBFTS DCBBFTKR	SIMPLE BUFFERING - BIT 3 IS ZERO UNBLOCKED SPANNED RECORDS - SOFTWARE TRACK OVERFLOW (BDAM)		
	• • • •	1	DCBBFTE DCBBFTKD	EXCHANGE BUFFERING - BIT 1 IS ZERO DYNAMIC BUFFERING (BTAM)		
		1	DCBH0	HIERARCHY O MAIN STORAGE - BIT O IS ZERO*		
		11	DCBBFA DCBBFAD	BUFFER ALIGNMENT DOUBLEWORD BOUNDARY		
		1.	DCBBFAF1	FULLWORD NOT A DOUBLEWORD BOUNDARY, CODED IN		
	• • •	11	DCBBFAF2	DCB MACRO INSTRUCTION FULLWORD NOT A DOUBLEWORD BOUNDARY, CODED IN DCB MACRO INSTRUCTION		
33	(21)	3	DCBEODA	ADDRESS OF A USER-PROVIDED ROUTINE TO HANDLE END-OF-DATA CONDITIONS		
36	(24)	4	DCBEXLST	ADDRESS OF USER-PROVIDED LIST OF EXITS		
36	1111	1.	DCBRECLA DCBRECD DCBRECL DCBRECF DCBRECV DCBRECU DCBRECTO DCBRECBR DCBRECSB	RECORD FORMAT RECORD LENGTH INDICATOR - ASCII ASCII VARIABLE RECORD LENGTH RECORD LENGTH INDICATOR FIXED RECORD LENGTH VARIABLE RECORD LENGTH UNDEFINED RECORD LENGTH TRACK OVERFLOW BLOCKED RECORDS FOR FIXED LENGTH RECORD FORMAT - STANDARD BLOCKS. FOR VARIABLE LENGTH RECORD FORMAT - SPANNED RECORDS CONTROL CHARACTER INDICATOR ASA CONTROL CHARACTER MACHINE CONTROL CHARACTER NO CONTROL CHARACTER KEY LENGTH (KEYLEN) WAS SPECIFIED IN DCB MACRO INSTRUCTION		
37	(25)	3	DCBEXLSA	ADDRESS OF USER-PROVIDED LIST OF EXITS		
	·	FOU	NDATION BEFO	RE OPEN		
40	(28)	8	DCBDDNAM	NAME ON THE DD STATEMENT WHICH DEFINES THE DATA SET ASSOCIATED WITH THIS DCB		
48			DCBOFLGS DCBOFLWR	FLAGS USED BY OPEN ROUTINE IF ZERO, LAST I/O OPERATION WAS READ OR POINT. IF ONE, LAST I/O OPERATION WAS WRITE.		
	1		DCBOFIOD	DATA SET IS BEING OPENED FOR INPUT OR OUTPUT (BDAM)		

OFF	SET	LENGTH	NAME	DESCRIPTION
			DCBOFLRB DCBOFEOV	LAST I/O OPERATION WAS IN READ BACKWARD MODE SET TO 1 BY EOV WHEN IT CALLS CLOSE ROUTINE FOR CONCATENATION OF DATA SETS WITH UNLIKE ATTRIBUTES
		1	DCBOFOPN DCBOFPPC	AN OPEN HAS BEEN SUCCESSFULLY COMPLETED SET TO 1 BY PROBLEM PROGRAM TO INDICATE CONCATENATION OF UNLIKE ATTRIBUTES
		.1	DCBOFTM DCBOFUEX	TAPE MARK HAS BEEN READ SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN THAT FUNCTION TAKES A USER EXIT. SET TO ON RETURN FROM USER EXIT TO THE I/O SUPPORT FUNCTION WHICH TOOK THE EXIT.
	• • • •	1	DCBOFIOF	SET TO 1 BY AN I/O SUPPORT FUNCTION IF DCB IS TO BE PROCESSED BY THAT FUNCTION
49	(31)	1	DCBIFLG	FLAGS USED BY IOS IN COMMUNICATING ERROR CONDITIONS AND IN DETERMINING CORRECTIVE PROCEDURES
			DCBIBEC DCBIFNEP DCBEX	ERROR CORRECTION INDICATOR NOT IN ERROR PROCEDURE ERROR CORRECTION OR IOS PAGE FIX IN PROCESS
	11		DCBIFPEC DCBIBPCT DCBIFC9	PERMANENT ERROR CORRECTION PRINTER CARRIAGE TAPE PUNCH INDICATOR CHANNEL 9 PRINTER CARRIAGE TAPE PUNCH SENSED
	1	11	DCBIFC12 DCBIBIOE DCBIFER	CHANNEL 12 PRINTER CARRIAGE TAPE PUNCH SENSED IOS ERROR ROUTINE USE INDICATOR ALWAYS USE I/O SUPERVISOR ERROR ROUTINE NEVER USE I/O SUPERVISOR ERROR ROUTINE
		.1	DCBIFTIM	TEST IOS MASK (IMSK) FOR ERROR PROCEDURE (BTAM)
		1		NEVER USE I/O SUPERVISOR ERROR ROUTINE NEVER USE I/O SUPERVISOR ERROR ROUTINE
50	(32)	2	DCBMACR	MACRO INSTRUCTION REFERENCE
50			DCBMACR1 DCBMRECP	FIRST BYTE OF DCBMACR EXECUTE CHANNEL PROGRAM (EXCP) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, QISAM, BDAM) RESERVED (BTAM)
	.1		DCBMRFE DCBMRGET DCBMRPTQ	FOUNDATION EXTENSION IS PRESENT (EXCP) GET (QSAM, QISAM, TCAM) PUT FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (BTAM)
			DCBMRAPG DCBMRRD	APPENDAGES ARE REQUIRED (EXCP) READ (BSAM, BPAM, BISAM, BDAM, BTAM)
		• • • • •	DCBMRWRQ	WRITE FOR LINE GROUP (QTAM) ALWAYS ZERO (QSAM, QISAM)
			DCBMRCI DCBMRMVG	COMMON INTERFACE (EXCP) MOVE MODE OF GET (QSAM, QISAM)
	1		DCBMRRDK	KEY SEGMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) RESERVED (BSAM, BPAM, BTAM)
		1	DCBMRLCG DCBMRRDI	LOCATE MODE OF GET (QSAM, QISAM) ID ARGUMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
		.1	DCBMRABC	USER'S PROGRAM MAINTAINS ACCURATE BLOCK COUNT (EXCP)
		1	DCBMRPT1	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)
		.1	DCBMRSBG DCBMRDBF	SUBSTITUTE MODE OF GET (QSAM) DYNAMIC BUFFERING (BISAM, BDAM) ALWAYS ZERO (QISAM) RESERVED (BTAM)
		1 .	DCBPGFXA	PAGE FIX APPENDAGE IS SPECIFIED (EXCP)
		1 .	DCBMRCRL	CNTRL (BSAM, QSAM)
		1.	DCBMRCHK	CHECK (BISAM)
	• • • •	1.	DCBMRRDX	READ EXCLUSIVE (BDAM) RESERVED (BPAM,

OFF	SET	LENGTH	<u>NAME</u>	DESCRIPTION
			DCBMRDMG DCBMRCK	QISAM, BTAM) DATA MODE OF GET (QSAM) CHECK (BDAM) RESERVED (EXCP, BSAM, BPAM, BISAM, QISAM, BTAM)
51		1	DCBMACR2 DCBMRSTL	SECOND BYTE OF DCBMACR SETL (QISAM) ALWAYS ZERO (BSAM, QSAM,
	1		DCBMRPUT	BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) PUT (QSAM, TCAM) - PUT OR PUTX (QISAM)
				GET FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
	1.		DCBMRRDQ	WRITE (BSAM, BPAM, BISAM, BDAM, BTAM) READ FOR LINE GROUP (QTAM)* ALWAYS ZERO (QSAM, QISAM) RESERVED (EXCP)
			DCBMRMVP DCBMRWRK	MOVE MODE OF PUT (QSAM, QISAM) KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO
	• • • •	••••	DCBMWKK	(BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
		1 1	DCBMR5WD DCBMRLDM	FIVE-WORD DEVICE INTERFACE (EXCP) LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM)
		1	DCBMRLCP	LOCATE MODE OF PUT (QSAM, QISAM)
		1	DCBMRIDW	ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
		.1		FOUR-WORD DEVICE INTERFACE (EXCP)
		.1		POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)
		.1	DCBMRTMD DCBMRUIP	SUBSTITUTE MODE (QSAM) UPDATE IN PLACE (PUTX) (QISAM) ALWAYS
	••••		DCBMRUIF	ZERO (BISAM) RESERVED (BDAM, QTAM, BTAM)
		1.	DCBMR3WD	THREE-WORD DEVICE INTERFACE (EXCP)
		1.	DCBMRCTL	CNTRL (BSAM, QSAM)
		1.	DCBMRSTK	SETL BY KEY (QISAM)
	• • • •	1.	DCBMRAWR	ADD TYPE OF WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
		1	DCBMR1WD	ONE-WORD DEVICE INTERFACE (EXCP)
	• • • •	1	DCBMRSWA	USER'S PROGRAM HAS PROVIDED A SEGMENT WORK AREA POOL (BSAM CREATE BDAM, BDAM)
		1	DCBMRDMD	DATA MODE (QSAM)
	• • • •	1	DCBMRSTI	SETL BY ID (QISAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
		F	OUNDATION AF	TER OPEN
40	(28)	2	DCBTIOT	OFFSET FROM TIOT ORIGIN TO TIOELNGH FIELD IN TIOT ENTRY FOR DD STATEMENT ASSOCIATED WITH THIS DCB
42	(2A)	2	DCBMACRF	SAME AS DCBMACR BEFORE OPEN
42	(2A)	1	DCBMACF1	FIRST BYTE OF DCBMACRF
43	(2B)	1	DCBMACF2	SECOND BYTE OF DCBMACRF
44	(2C)	4	DCBDEBAD	ADDRESS OF ASSOCIATED DEB
44		1	DCBIFLGS	SAME AS DCBIFLG BEFORE OPEN
	11	11	DCBIFPCT	ERROR CORRECTION INDICATOR PRINTER CARRIAGE TAPE PUNCH INDICATOR IOS ERROR ROUTINE USE INDICATOR
45	(2D)	3	DCBDEBA	ADDRESS OF ASSOCIATED DEB
48	(30)	4	DCBREAD	ADDRESS OF READ MODULE
48	(30)	4	DCBWRITE	ADDRESS OF WRITE MODULE BDAM INTERFACE
52	(34)	4	DCBCHECK	ADDRESS OF CHECK MODULE

OFF	SET 1	LENGTI	H NAME	DESCRIPTION
52	(34)	1		OPTION CODES WRITE VALIDITY CHECK (DASD) (BSAM, BPAM, QSAM, ISAM, BDAM)
	1.	1 1	DCBOPTTO DCBOPTE DCBOPTF DCBOPTA DCBOPTDB DCBOPTRE DCBOPTRB	TRACK OVERFLOW EXTENDED SEARCH FEEDBACK ACTUAL ADDRESSING DYNAMIC BUFFERING READ EXCLUSIVE RELATIVE BLOCK ADDRESSING
53	(35)	3	DCBCHCKA	ADDRESS OF CHECK MODULE
56	(38)	4	DCBSYNAD	ADDRESS OF SYNAD ROUTINE
60	(3C)	2		RESERVED
62	(3E)	2	DCBBLKSI	MAXIMUM BLOCK SIZE
64	(40)	4	DCBIOBSQ	ADDRESS OF FIRST IOB ON UNSCHEDULED QUEUE FOR EITHER A WRITE-ADD REQUEST WHEN ANOTHER WRITE-ADD IS IN PROGRESS OR A READ-EXCLUSIVE REQUEST WHEN THE READ-EXCLUSIVE LIST IS FULL
68	(44)	4	DCBSQND	ADDRESS OF LAST IOB ON UNSCHEDULED QUEUE
72	(48)	4	DCBIOBUQ	ADDRESS OF FIRST IOB ON UNPOSTED QUEUE
76	(4C)	4	DCBUQND	ADDRESS OF LAST JOB ON UNPOSTED QUEUE THAT IS MAINTAINED BY THE READ EXCLUSIVE MODULE
80	(50)	1		RESERVED
81	(51)	3	DCBLIMCT	NUMBER OF TRACKS OR NUMBER OF RELATIVE BLOCKS TO BE SEARCHED (EXTENDED SEARCH OPTION)
84	(54)	4	DCBXARG	ADDRESS OF READ EXCLUSIVE LIST
84	(54)	1	DCBXCNT	NUMBER OF ENTRIES IN READ EXCLUSIVE LIST
85	(55)	3	DCBXARGA	ADDRESS OF READ EXCLUSIVE LIST
88	(58)	4	DCBDRDX	ADDRESS OF READ EXCLUSIVE MODULE
88	(58)	1	DCBMVXNO	TOTAL NUMBER OF EXTENTS IN MULTIVOLUME DATA SET
89	(59)	3	DCBDRDXA	ADDRESS OF READ EXCLUSIVE MODULE
92	(5C)	4	DCBDFOR	ADDRESS OF A FORMAT MODULE
96	(60)	4	DCBDFBK	ADDRESS OF A FEEDBACK MODULE
100	(64)	4	DCBDYNB	FOR DYNAMIC BUFFERING, ADDRESS OF DYNAMIC BUFFER MODULE. FOR UNBLOCKED SPANNED RECORDS WITH BFTEK=R SPECIFIED AND NO DYNAMIC BUFFERING, ADDRESS OF SEGMENT WORK AREA CONTROL BLOCK

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	28 (1C) 60 (3C) 80 (50)	DCBIFC9 DCBIFEC DCBIFER	49 X'20' 44 X'C0' 49 X'00'	DCBMRSWA DCBMRTMD DCBMRUIP	51 X'01' 51 X'04' 51 X'04'
DCBACBM	27 X'08'	DCBIFIOE	44 X'OC'	DCBMRWRK	51 X'10'
DCBBFA	32 X'03' 32 X'02'	DCBIFLG	49 (31)	DCBMRWRQ	50 X'20'
DCBBFAD DCBBFAF1	32 X'02' 32 X'01'	DCBIFLGS DCBIFNEP	44 (2C) 49 X'00'	DCBMRWRT DCBMR1WD	51 X'20' 51 X'01'
DCBBFAF2	32 X'03'	DCBIFNE1	49 X'04'	DCBMR3WD	51 X'02'
DCBBFALN	32 (20)	DCBIFNE2	49 X'08'	DCBMR4WD	51 X'04'
DCBBFT	32 X'70'	DCBIFNE3	49 X'0C'	DCBMR5WD	51 X'08'
DCBBFTA DCBBFTE	32 X'60' 32 X'10'	DCBIFPCT DCBIFPEC	44 X'30' 49 X'CO'	DCBMVXNO DCBNUPD	88 (58) 28 X'30'
DCBBFTEK	32 (20)	DCBIFFEC	49 X'04'	DCBODEB	28 (1C)
DCBBFTKD	32 X'08'	DCBIOBAA	29 (1D)	DCBODEBA	29 (1D)
DCBBFTKR	32 X'20'	DCBIOBAD	28 (1C)	DCBOFEOV	48 X'20'
DCBBFTR	32 X'20'	DCBIOBSQ	64 (40)	DCBOFIOD	48 X'80'
DCBBFTS DCBBLKSI	32 X'40' 62 (3E)	DCBIOBUQ DCBKEYLE	72 (48) 16 (10)	DCBOFIOF DCBOFLGS	48 X'01' 48 (30)
DCBBUFCA	21 (15)	DCBLIMCT	81 (51)	DCBOFLRB	48 (30) 48 X'40'
DCBBUFCB	20 (14)	DCBLNP	28 (1C)	DCBOFLWR	48 X'80'
DCBBUFL	24 (18)	DCBMACF1	42 (2A)	DCBOFOPN	48 X'10'
DCBBUFNO	20 (14)	DCBMACF2	43 (2B)	DCBOFPPC	48 X'08'
DCBCHCKA DCBCHECK	53 (35) 52 (34)	DCBMACR DCBMACRF	50 (32) 42 (2A)	DCBOFTM DCBOFUEX	48 X'04' 48 X'02'
DCBDDNAM	40 (28)	DCBMACR1	50 (32)	DCBOPTA	52 X'08'
DCBDEBA	45 (2D)	DCBMACR2	51 (33)	DCBOPTCD	52 (34)
DCBDEBAD	44 (2C)	DCBMRABC	50 X'04'	DCBOPTDB	52 X'04'
DCBDEVT	17 (11)	DCBMRAPG	50 X'20'	DCBOPTE	52 X'20'
DCBDFBK DCBDFOR	96 (60) 92 (5C)	DCBMRAWR DCBMRCHK	51 X'02' 50 X'02'	DCBOPTF DCBOPTRB	52 X'10' 52 X'01'
DCBDRDX	88 (58)	DCBMRCI	50 X'10'	DCBOPTRE	52 X'02'
DCBDRDXA	89 (59)	DCBMRCK	50 X'01'	DCBOPTTO	52 X'40'
DCBDSGCQ	26 X'08'	DCBMRCRL	50 X'02'	DCBOPTW	52 X'80'
DCBDSGCX DCBDSGDA	26 X'10' 26 X'20'	DCBMRCTL DCBMRDBF	51 X'02' 50 X'04'	DCBPGFXA	50 X'02' 28 (1C)
DCBDSGDA	20 X 20 27 X'80'	DCBMRDMD	50 X 04 51 X'01'	DCBQSLM DCBREAD	48 (30)
DCBDSGIS	26 X'80'	DCBMRDMG	50 X'01'	DCBRECBR	36 X'10'
DCBDSGMQ	26 X'04'	DCBMRECP	50 X'80'	DCBRECC	36 X'00'
DCBDSGPO	26 X'02' 26 X'40'	DCBMRFE DCBMRGET	50 X'40'	DCBRECCA	36 X'04'
DCBDSGPS DCBDSGTQ	26 X 40 27 X'20'	DCBMRGE 1 DCBMRGTQ	50 X'40' 51 X'40'	DCBRECCC DCBRECCM	36 X'06' 36 X'02'
DCBDSGTX	27 X'40'	DCBMRIDW	51 X'08'	DCBRECD	36 X'20'
DCBDSGU	26 X'01'	DCBMRLCG	50 X'08'	DCBRECF	36 X'80'
DCBDSORG	26 (1A)	DCBMRLCP	51 X'08'	DCBRECFM	36 (24)
DCBDSRG1 DCBDSRG2	26 (1A) 27 (1B)	DCBMRLDM DCBMRMVG	51 X'08' 50 X'10'	DCBRECKL DCBRECL	36 X'01' 36 X'CO'
DCBDVTRM	17 X'4F'	DCBMRMVP	51 X'10'	DCBRECLA	36 X'EO'
DCBDYNB	100 (64)	DCBMRPTQ	50 X'40'	DCBRECSB	36 X'08'
DCBEODA	33 (21)	DCBMRPT1	50 X'04'	DCBRECTO	36 X'20'
DCBEODAD DCBEX	32 (20) 49 X'40'	DCBMRPT2 DCBMRPUT	51 X'04' 51 X'40'	DCBRECU	36 X'CO'
DCBEXLSA	37 (25)	DCBMRRD	50 X'20'	DCBRECV DCBREL	36 X'40' 17 (11)
DCBEXLST	36 (24)	DCBMRRDI	50 X'08'	DCBRELB	16 (10)
DCBHIARC	32 (20)	DCBMRRDK	50 X'10'	DCBSQND	68 (44)
DCBH0	32 X'04'	DCBMRRDQ	51 X'20'	DCBSVCXA	29 (1D)
DCBH1 DCBIBEC	32 X'80' 49 X'CO'	DCBMRRDX DCBMRSBG	50 X'02' 50 X'04'	DCBSVCXL DCBSVDEB	28 (1C) 28 X'10'
DCBIBIOE	49 X'OC'	DCBMRSTI	51 X'01'	DCBSYNAD	56 (38)
DCBIBPCT	49 X'30'	DCBMRSTK	51 X'02'	DCBTIOT	40 (28)
DCBIFC12	49 X'10'	DCBMRSTL	51 X'80'	DCBUPDBT	28 X'30'

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DCBUPDCM	28 X'40'				
DCBUPDT	28 X'20'				
DCBUQND	76 (4C)				
DCBWRITE	48 (30)				
DCBXARG	84 (54)				
DCBXARGA	85 (55)				
DCBXCNT	84 (54)				
DCB1DVDS	28 X'80'				
		END O	F DCB - BDAM		

Data Control Block -- BTAM

This data control block (DCB) describes data sets being processed by the basic telecommunications access method (BTAM) routines. The common interface and foundation extension exist for all DCB formats.

OFF	SET	LENGT	H NAME	DESCRIPTION
		BTA	M LINE GROUP	INTERFACE
20	(14)	4	DCBBUFCB	ADDRESS OF BUFFER POOL CONTROL BLOCK
20	(14)	1	DCBBUFNO	NUMBER OF BUFFERS OBTAINED BY OPEN
21	(15)	3	DCBBUFCA	ADDRESS OF BUFFER POOL CONTROL BLOCK
24	(18)	2	DCBBUFL	BUFFER LENGTH
26	(1A)	2	DCBDSORG	DATA SET ORGANIZATION BEING USED
26			DCBDSRG1	FIRST BYTE OF DCBDSORG
	1	1	DCBDSGIS DCBDSGPS DCBDSGDA DCBDSGCX	IS - INDEXED SEQUENTIAL ORGANIZATION PS - PHYSICAL SEQUENTIAL ORGANIZATION DA - DIRECT ORGANIZATION CX - BTAM LINE GROUP reserved RESERVED PO - PARTITIONED ORGANIZATION U - UNMOVABLE, THE DATA CONTAINS LOCATION DEPENDENT INFORMATION
27			DCBDSRG2	SECOND BYTE OF DCBDSORG
	.1		DCBDSGGS DCBDSGTX DCBDSGTQ DCBACBM	GS - GRAPHICS ORGANIZATION TX - TCAM LINE GROUP TQ - TCAM MESSAGE QUEUE ACCESS METHOD CONTROL BLOCK
28	(1C)	4	DCBIOBAD	BASE FOR ADDRESSING IOB'S (BASE = ADDRESS OF FIRST IOB MINUS LENGTH OF AN IOB)
28	(1C)	1	DCBDEVTP	INDEX TO DEVICE ENTRY IN THE DEVICE I/O DIRECTORY
29	(1D)	3	DCBIOBAA	SAME AS DCBIOBAD ABOVE
32	(20)	1	DCBHIARC	HIERARCHY FLAG BITS
32	1 .111		DCBBFTEK DCBH1 DCBBFT DCBBFTA	BUFFERING TECHNIQUE FLAG BITS HIERARCHY 1 MAIN STORAGE*- BIT 5 IS ZERO BUFFERING TECHNIQUE QSAM LOCATE MODE PROCESSING OF SPANNED RECORDS - OPEN IS TO CONSTRUCT A RECORD AREA IF IT AUTOMATICALLY CONSTRUCTS BUFFERS
	1.	••••	DCBBFTR	FOR BSAM CREATE BDAM PROCESSING OF UNBLOCKED SPANNED RECORDS - SOFTWARE TRACK OVERFLOW. FOR BSAM INPUT PROCESSING OF UNBLOCKED SPANNED RECORDS
		• • • •	DCBBFTS DCBBFTKR	SIMPLE BUFFERING - BIT 3 IS ZERO UNBLOCKED SPANNED RECORDS - SOFTWARE TRACK OVERFLOW (BDAM)
		1 1 .1 11 1.	DCBBFTKD DCBH0 DCBBFA DCBBFAD DCBBFAF1	EXCHANGE BUFFERING - BIT 1 IS ZERO DYNAMIC BUFFERING (BTAM) HIERARCHY 0 MAIN STORAGE*- BIT 0 IS ZERO BUFFER ALIGNMENT DOUBLEWORD BOUNDARY FULLWORD NOT A DOUBLEWORD BOUNDARY, CODED IN DCB MACRO INSTRUCTION FULLWORD NOT A DOUBLEWORD BOUNDARY, CODED IN DCB MACRO INSTRUCTION
33	(21)	1	DCBERROP	ERROR RECOVERY PROCEDURE BITS
34	(22)	1	DCBBUFCT	MAX NUMBER OF READ BUFFERS
35	(23)	1		RESERVED
36	(24)	4	DCBEXLST	ADDRESS OF USER-PROVIDED EXIT LIST

SET	LENGT	H NAME	DESCRIPTION
(24)	1	DCBEIOBX	SIZE OF IOB
(25)	3	DCBEXLSA	ADDRESS OF USER-PROVIDED EXIT LIST
• • •	. 1	DCBERPC	ERROR RECOVERY PROCEDURE BITS ON-LINE TEST FACILITIES TO BE USED THRESHOLD AND CUMULATIVE ERROR COUNTS TO BE MAINTAINED TEXT-WRITE ERRORS TO BE RETRIED
	1.	DCBERPR	TEXT-READ ERRORS TO BE RETRIED IF ZERO, BASIC ERP TO BE FOLLOWED IF ONE, NO ERP TO BE FOLLOWED
(22)	1	DCBBUFCT	CONTAINS MAXIMUM NUMBER OF BUFFERS TO BE OBTAINED BY BTAM FOR READ OPERATION (DYNAMIC BUFFERING ONLY)
(1C)	1	DCBDEVTP	INDEX TO DEVICE ENTRY IN THE DEVICE I/O DIRECTORY
(24)	1	DCBEIOBX	SIZE OF EXTENDED IOB. SIZE OF AN IOB ASSOCIATED WITH THIS DCB
	F	OUNDATION BE	FORE OPEN
(28)	8	DCBDDNAM	NAME ON THE DD STATEMENT WHICH DEFINES THE DATA SET ASSOCIATED WITH THIS DCB
			FLAGS USED BY OPEN ROUTINE IF ZERO, LAST I/O OPERATION WAS READ OR POINT. IF ONE, LAST I/O OPERATION WAS WRITE.
1		DCBOFIOD	DATA SET IS BEING OPENED FOR INPUT OR OUTPUT (BDAM)
			LAST I/O OPERATION WAS IN READ BACKWARD MODE SET TO 1 BY EOV WHEN IT CALLS CLOSE ROUTINE FOR CONCATENATION OF DATA SETS WITH UNLIKE ATTRIBUTES
			AN OPEN HAS BEEN SUCCESSFULLY COMPLETED SET TO 1 BY PROBLEM PROGRAM TO INDICATE CONCATENATION OF UNLIKE ATTRIBUTES
			TAPE MARK HAS BEEN READ SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN THAT FUNCTION TAKES A USER EXIT. SET TO ON RETURN FROM USER EXIT TO THE I/O SUPPORT FUNCTION WHICH TOOK THE EXIT.
• • •	1	DCBOFIOF	SET TO 1 BY AN I/O SUPPORT FUNCTION IF DCB IS TO BE PROCESSED BY THAT FUNCTION
(31)	1	DCBIFLG	FLAGS USED BY IOS IN COMMUNICATING ERROR CONDITIONS AND IN DETERMINING CORRECTIVE PROCEDURES
.1. 1111	1	DCBIBIOE DCBIFER DCBIFNE1 DCBIFTIM DCBIFNE2	ERROR CORRECTION INDICATOR NOT IN ERROR PROCEDURE ERROR CORRECTION OR IOS PAGE FIX IN PROCESS PERMANENT ERROR CORRECTION PRINTER CARRIAGE TAPE PUNCH INDICATOR CHANNEL 9 PRINTER CARRIAGE TAPE PUNCH SENSED CHANNEL 12 PRINTER CARRIAGE TAPE PUNCH SENSED IOS ERROR ROUTINE USE INDICATOR ALWAYS USE I/O SUPERVISOR ERROR ROUTINE NEVER USE I/O SUPERVISOR ERROR ROUTINE TEST IOS MASK (IMSK) FOR ERROR PROCEDURE (BTAM) NEVER USE I/O SUPERVISOR ERROR ROUTINE NEVER USE I/O SUPERVISOR ERROR ROUTINE
	(24) (25) (21) (22) (1C) (24) (28) (30) 1 .1. .1. .1. .1.	(24) 1 (25) 3 (21) 1111 (22) 1 (1C) 1 (24) 1 (28) 8 (30) 1 1	(1C) 1 DCBBUFCT (1C) 1 DCBDEVTP (24) 1 DCBEIOBX FOUNDATION BE (28) 8 DCBDDNAM (30) 1 DCBOFLGS 1 DCBOFLWR 1 DCBOFLOD .1. DCBOFLOD .1. DCBOFEOV 1 DCBOFEOV 1 DCBOFPPC 1 DCBOFPPC 1 DCBOFTM 1 DCBOFTM 1 DCBOFIOF (31) 1 DCBIFLG 11. DCBIFLG 11. DCBIFLG DCBIFLG DCBIFNEP DCBIFPEC DCBIFPEC 1 DCBIFFIM 1 DCBIFNE1

1	OFF	SET	LENGT	H NAME	DESCRIPTION
DCBMRECE EXECUTE CHANNEL PROGRAM (EXCP) ALWAYS ZERO (BSAM, OSAM, BPAM, BISAM, QISAM, BDAM) RESERVED (BTAM)	50	(32)	2	DCBMACR	MACRO INSTRUCTION REFERENCE
1. DCBMRSET 1. DCBMRSET 2. CET (DSAM, QISAM, TCAM) 1. DCBMRAPG 2. CET (DSAM, QISAM, TCAM) 2. DCBMRAPG 3. DCBMRAPG 3. DCBMRAPG 4. DCBMRAPG 4. DCBMRAPG 4. DCBMRAPG 5. DCBMRAPG 5. DCBMRAPG 6. DCBMRAPG	50	(32)		DCBMACR1 DCBMRECP	EXECUTE CHANNEL PROGRAM (EXCP) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, QISAM, BDAM)
1. DCBMRAPG 1. DCBMRND		.1.		DCBMRGET	FOUNDATION EXTENSION IS PRESENT (EXCP) GET (QSAM, QISAM, TCAM) PUT FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO
		1		DCBMRRD	APPENDAGES ARE REQUIRED (EXCP) READ (BSAM, BPAM, BISAM, BDAM, BTAM) WRITE FOR LINE GROUP (QTAM)* ALWAYS ZERO
KEY SEGMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) RESERVED (BSAM, BPAM, BTAM) 1 DCBMRLCG 1 DCBMRRICG 1 DCBMRRICG 1 DCBMRRICG 1 DCBMRRICG 1 DCBMRRICG 1 DCBMRRICG 1 DCBMRRBC 1 DCBMRABC 2 DYNAMIC BUFFERING (BISAM, BDAM) ALWAYS ZERO (QISAM) RESERVED (EXCP) 2 DYNAMIC BUFFERING (BISAM, BDAM) ALWAYS ZERO (QISAM) RESERVED (BTAM) 2 DCBMRCHK 2 CNTRL (BSAM, QSAM) 2 DCBMRCHK 3 DCBMRCHK 4 CHECK (BISAM) 3 DCBMRCHK 5 CHECK (BISAM) 5 DCBMRCHK 5 CHECK (BDAM) RESERVED (BYAM, QISAM, BTAM) 5 DCBMRABC 5 CHECK (BDAM) RESERVED (EXCP, BSAM, BPAM, BISAM, BTAM) 5 DCBMRABC 5 SECOND BYTE OF DCBMACR 6 SECOND BYTE OF DCBMACR 7 DCBMRAPUT PUT (QSAM, DISAM, BTAM) 8 DCBMRABC (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) 9 DCBMRABC (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) 9 DCBMRADC (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) 9 DCBMRADC (QSAM, QISAM) SEAD (CSAM, QISAM) 1 DCBMRADC (QSAM, QISAM) SEAD (CSAM, QISAM) SEAD (CSAM, QISAM) RESERVED (EXCP) 1 DCBMRADC (SSAM, DEAM, BPAM, BISAM, BDAM, BTAM) 1 DCBMRADC (DCBMRADC) (DCBMRAD					COMMON INTERFACE (EXCP)
1. DCBMRRDI 1 DCBMRADC 1 DCBMRSBG 1 DCBMRSBG 1 DCBMRSBG 2 DCBMRSBG 2 DCBMRDF 2 DVNAMIC BUFFERING (BISAM, BDAM) ALWAYS ZERO (QISAM) RESERVED (BEAM) 2 DCBMRCBC 2 DCBMRCBC 2 DCBMRCBC 2 DCBMRCBC 3 DCBMRCBCC 3 DCBMRCBCC 4 DCBMRCBCC 5 DCBMRCBCC 5 DCBMRCBCC 6 DCBMRCBCC 7 DCBMRCBCC 6 DCBMRCBCC 6 DCBMRCBCC 7 DCBMRCBCC 7 DCBMRCBCC 7 DCBMRCBCC 7 DCBMRCBCC 8 DCBMRCBCC 9 DCBMRCBCC 9 DCBMRCBCC 9 DCBMRCBCC 9 DCBMRCBCC 1 DCBMRCBCCC 1 DCBMRCBCCC 1 DCBMRCBCCC 1 DCBMRCBCCC 1 DCBMRCBCCC 1 DCBMRCBCCC 1 DCBMRCBCCCC 1 DCBMRCBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		• • •	1	DCBMRRDK	KEY SEGMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) RESERVED (BSAM, BPAM, BTAM)
(EXCP) 1. DCBMRPT1 1. DCBMRSBG 2. 1. DCBMRSBG 3. 1. DCBMRSBG 3. 1. DCBMRDBF 2. 2ERO (QISAM) RESERVED (BTAM) 2. 2ERO (QISAM) RESERVED (BTAM) 2. 1. DCBMRCRL 2. 1. DCBMRCRL 2. 1. DCBMRCRL 2. 1. DCBMRCRL 3. 1. DCBMRCRL 3. 1. DCBMRCRL 4. 1. DCBMRRDM 5. 1. DCBMRRDM 5. 1. DCBMRRDM 5. 1. DCBMRCK 5. 1. DCBMRCK 5. 1. DCBMRCK 6. 1. DCBMRCK 6. 1. DCBMRCRL 7. 1. DCBMRCRL 8. 1. DCBMRCRL 8. 1. DCBMRCRL 1. DCBMRDT 1. DCBMRRDT 1. DCBMRRDQ 6. 1. DCBMRNDD 6. 1. DCBMRNDD 7. 1. DCBMRDD		• • •	. 1	DCBMRRDI	ID ARGUMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
				DCBMRABC	
					DYNAMIC BUFFERING (BISAM, BDAM) ALWAYS
					PAGE FIX APPENDAGE IS SPECIFIED (EXCP)
1. DCBMRRDX READ EXCLUSIVE (BDAM) RESERVED (BPAM, QISAM, BTAM) 1 DCBMRDMG DATA MODE OF GET (QSAM) 1 DCBMRCK CHECK (BDAM) RESERVED (EXCP, BSAM, BPAM, BISAM, QISAM, BTAM) 51 (33) 1 DCBMACR2 SECOND BYTE OF DCBMACR 1 DCBMRSTL SETL (QISAM) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) 1 DCBMRPUT PUT (QSAM, TCAM) - PUT OR PUTX (QISAM) 11 DCBMRGTQ GET FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) 11 DCBMRWRT WRITE (BSAM, BPAM, BISAM, BDAM, BTAM) 11 DCBMRNDQ READ FOR LINE GROUP (QTAM)* ALWAYS ZERO (QSAM, QISAM) RESERVED (EXCP) 11 DCBMRWKK KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP) 11 DCBMRLDM LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM) 11 DCBMRLDM LOAD MODE BSAM (CREATE BDAM) ALWAYS ZERO (BISAM) RESERVED (BYAM, BTAM) 11 DCBMRAWD FOUR-WORD DEVICE INTERFACE (EXCP) 11 DCBMRAWD FOUR-WORD DEVICE INTERFACE (EXCP) 11 DCBMRAWD FOUR-WORD DEVICE INTERFACE (EXCP) 11 DCBMRAWD SUBSTITUTE MODE (QSAM) 12 DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) 13 DCBMRAWD THREE-WORD DEVICE INTERFACE (EXCP) 14 DCBMRAWD THREE-WORD DEVICE INTERFACE (EXCP) 15 DCBMRAWD THREE-WORD DEVICE INTERFACE (EXCP) 16 DCBMRAWD THREE-WORD DEVICE INTERFACE (EXCP) 17 DCBMRAWD THREE-WORD DEVICE INTERFACE (EXCP) 18 THE COMMENT WITH MILLES NOTE) (BSAM, BPAM) 19 THE COMMENT WITH MILLES NOTE) (BSAM, BPAM) 19 THE COMMENT WITH MILLES NOTE) (BSAM, BPAM) 11 DCBMRAUD THREE-WORD DEVICE INTERFACE (EXCP) 11 DCBMRAWD THREE-WORD DEVICE INTERFACE (EXCP) 12 THE COMMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) 15 THE COMMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) 16 THE COMMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)					
					READ EXCLUSIVE (BDAM) RESERVED (BPAM,
BISAM, QISAM, BTAM) 51 (33) 1 DCBMACR2 SECOND BYTE OF DCBMACR 1			1	DCBMRDMG	
DCBMRSTL SETL (QISAM) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) DCBMRPUT PUT (QSAM, TCAM) - PUT OR PUTX (QISAM) CET FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) DCBMRWRT WRITE (BSAM, BPAM, BISAM, BDAM, BTAM) COMMINION OF MODE OF PUT (QSAM, QISAM) COMMINION OF MODE OF PUT (QSAM, BPAM, BTAM) DCBMRWRK KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP) LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM) LOCATE MODE OF PUT (QSAM, QISAM) DCBMRIDW LOCATE MODE OF PUT (QSAM, BTAM) LOCATE MODE OF PUT (QSAM, QISAM) DCBMRIDW FOUR-WORD DEVICE INTERFACE (EXCP) BISAM) RESERVED (BPAM, BTAM) FOUR-WORD DEVICE INTERFACE (EXCP) DCBMRTMD SUBSTITUTE MODE (QSAM) UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) THREE-WORD DEVICE INTERFACE (EXCP) LOCATE MODE OF PUTX (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) THREE-WORD DEVICE INTERFACE (EXCP) COTTRL (BSAM) RESERVED (BDAM, BTAM) THREE-WORD DEVICE INTERFACE (EXCP)		•••	1	DCBMRCK	
GET FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM) .1. DCBMRWRT WRITE (BSAM, BPAM, BISAM, BDAM, BTAM) .1. DCBMRRDQ READ FOR LINE GROUP (QTAM)* ALWAYS ZERO (QSAM, QISAM) RESERVED (EXCP) .1. DCBMRWVP MOVE MODE OF PUT (QSAM, QISAM) .1. DCBMRWKK KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM) .1. DCBMRSWD FIVE-WORD DEVICE INTERFACE (EXCP) .1. DCBMRLDM LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM) .1. DCBMRIDW ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM) .1. DCBMRIDW FOUR-WORD DEVICE INTERFACE (EXCP) .1. DCBMR4WD FOUR-WORD DEVICE INTERFACE (EXCP) .1. DCBMRTMD SUBSTITUTE MODE (QSAM) .1. DCBMRTMD SUBSTITUTE MODE (QSAM) .1. DCBMRUP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) THREE-WORD DEVICE INTERFACE (EXCP) .1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP) .1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP)	51	1		DCBMRSTL	SETL (QISAM) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
.1 DCBMRRDQ READ FOR LINE GROUP (QTAM)* ALWAYS ZERO (QSAM, QISAM) RESERVED (EXCP) 1 DCBMRWVP MOVE MODE OF PUT (QSAM, QISAM) 1 DCBMRWRK KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM) 1 DCBMR5WD FIVE-WORD DEVICE INTERFACE (EXCP) 1 DCBMRLDM LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM) 1 DCBMRLCP LOCATE MODE OF PUT (QSAM, QISAM) 1 DCBMRIDW ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM) 1 DCBMR4WD FOUR-WORD DEVICE INTERFACE (EXCP) 1 DCBMRTMD SUBSTITUTE MODE (QSAM) 1 DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) 1 DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP) 1 DCBMRCTL CNTRL (BSAM, QSAM)					GET FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
1 DCBMRWVP MOVE MODE OF PUT (QSAM, QISAM)1 DCBMRWRK KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)1 DCBMR5WD FIVE-WORD DEVICE INTERFACE (EXCP)1. DCBMRLDM LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM)1. DCBMRLCP LOCATE MODE OF PUT (QSAM, QISAM)1. DCBMRIDW ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)1. DCBMR4WD FOUR-WORD DEVICE INTERFACE (EXCP)1. DCBMRTMD SUBSTITUTE MODE (QSAM)1. DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP)1. DCBMRCTL CNTRL (BSAM, QSAM)					READ FOR LINE GROUP (QTAM)* ALWAYS ZERO
(BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM) 1. DCBMR5WD FIVE-WORD DEVICE INTERFACE (EXCP) 1. DCBMRLDM LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM) 1. DCBMRLCP LOCATE MODE OF PUT (QSAM, QISAM) 1. DCBMRIDW ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM) 1. DCBMR4WD FOUR-WORD DEVICE INTERFACE (EXCP) 1. DCBMRPT2 POINT (WHICH IMPLIES NOTE) (BSAM, BPAM) 3. DCBMRTMD SUBSTITUTE MODE (QSAM) 4. DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) 5. THREE-WORD DEVICE INTERFACE (EXCP) 6. CNTRL (BSAM, QSAM)			1	DCBMRMVP	MOVE MODE OF PUT (QSAM, QISAM)
1 DCBMRLDM1 DCBMRLCP LOCATE MODE OF PUT (QSAM, QISAM)1. DCBMRIDW ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)1. DCBMR4WD FOUR-WORD DEVICE INTERFACE (EXCP)1. DCBMRPT2 POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)1. DCBMRUP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP)1. DCBMRCTL CNTRL (BSAM, QSAM)					(BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
1 DCBMRLCP LOCATE MODE OF PUT (QSAM, QISAM)1 DCBMRIDW ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)1. DCBMR4WD FOUR-WORD DEVICE INTERFACE (EXCP)1. DCBMRPT2 POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)1. DCBMRTMD SUBSTITUTE MODE (QSAM)1. DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP)1. DCBMRCTL CNTRL (BSAM, QSAM)					
1 DCBMRIDW ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM) 1. DCBMR4WD FOUR-WORD DEVICE INTERFACE (EXCP) 1. DCBMRPT2 POINT (WHICH IMPLIES NOTE) (BSAM, BPAM) 1. DCBMRTMD SUBSTITUTE MODE (QSAM) 1. DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM) 1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP) 1. DCBMRCTL CNTRL (BSAM, QSAM)					
1. DCBMRPT2 POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)1. DCBMRUP SUBSTITUTE MODE (QSAM)1. DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP)1. DCBMRCTL CNTRL (BSAM, QSAM)					ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO
1. DCBMRTMD SUBSTITUTE MODE (QSAM)1. DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP)1. DCBMRCTL CNTRL (BSAM, QSAM)					
1 DCBMRUIP UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP)1. DCBMRCTL CNTRL (BSAM, QSAM)					
ZERO (BISAM) RESERVED (BDAM, BTAM)1. DCBMR3WD THREE-WORD DEVICE INTERFACE (EXCP)1. DCBMRCTL CNTRL (BSAM, QSAM)					
1. DCBMRCTL CNTRL (BSAM, QSAM)					ZERO (BISAM) RESERVED (BDAM, BTAM)

OFF	SET LENGT	<u>'H</u> <u>NAME</u>	DESCRIPTION
•	1.	DCBMRAWR	ADD TYPE OF WRITE (BDAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
	1	DCBMR1WD DCBMRSWA	
		DCBMRDMD DCBMRSTI	DATA MODE (QSAM)
	F	OUNDATION AF	TER OPEN
40	(28) 2	DCBTIOT	OFFSET FROM TIOT ORIGIN TO TIOELNGH FIELD IN TIOT ENTRY FOR DD STATEMENT ASSOCIATED WITH THIS DCB
42	(2A) 2	DCBMACRF	SAME AS DCBMACR BEFORE OPEN
42	(2A) 1	DCBMACF1	FIRST BYTE OF DCBMACRF
43	(2B) 1	DCBMACF2	SECOND BYTE OF DCBMACRF
44	(2C) 4	DCBDEBAD	ADDRESS OF ASSOCIATED DEB
44	`11 11	DCBIFLGS DCBIFEC DCBIFPCT DCBIFIOE	ERROR CORRECTION INDICATOR PRINTER CARRIAGE TAPE PUNCH INDICATOR
45	(2D) 3	DCBDEBA	ADDRESS OF ASSOCIATED DEB
48	(30) 4	DCBREAD	ADDRESS OF READ MODULE
48	(30) 4	DCBWRITE	ADDRESS OF WRITE MODULE BTAM INTERFACE
52	(34) 4	DCBLERB	ADDRESS OF LINE ERROR BLOCK

NAME	OFFSETS/	<u>NAME</u>	OFFSETS/	NAME	OFFSETS/
	EQU VALUE		EQU VALUE		EQU VALUE
	28 (1C) 33 (21)	DCBIFER DCBIFIOE	49 X'00'	DCBMR 1WD	51 X'01'
	34 (22)	DCBIFLG	44 X'0C' 49 (31)	DCBMR3WD DCBMR4WD	51 X'02' 51 X'04'
	35 (23)	DCBIFLGS	44 (2C)	DCBMR5WD	51 X'08'
	36 (24)	DCBIFNEP	49 X'00'	DCBOFEOV	48 X'20'
DCBACBM	27 X'08'	DCBIFNE1	49 X'04'	DCBOFIOD	48 X'80'
DCBBFA	32 X'03'	DCBIFNE2	49 X'08'	DCBOFIOF	48 X'01'
DCBBFAD	32 X'02'	DCBIFNE3	49 X'0C'	DCBOFLGS	48 (30)
DCBBFAF1	32 X'01'	DCBIFPCT	44 X'30'	DCBOFLRB	48 X'40'
DCBBFAF2	32 X'03' 32 X'70'	DCBIFPEC	49 X'CO'	DCBOFLWR	48 X'80'
DCBBFT DCBBFTA	32 X'70'	DCBIFTIM DCBIOBAA	49 X'04' 29 (1D)	DCBOFOPN DCBOFPPC	48 X'10' 48 X'08'
DCBBFTE	32 X'10'	DCBIOBAD	28 (1C)	DCBOFTM	48 X'04'
DCBBFTEK	32 (20)	DCBLERB	52 (34)	DCBOFUEX	48 X'02'
DCBBFTKD	32 X'08'	DCBMACF1	42 (2A)	DCBPGFXA	50 X'02'
DCBBFTKR	32 X'20'	DCBMACF2	43 (2B)	DCBREAD	48 (30)
DCBBFTR	32 X'20'	DCBMACR	50 (32)	DCBTIOT	40 (28)
DCBBFTS	32 X'40'	DCBMACRF	42 (2A)	DCBWRITE	48 (30)
DCBBUFCA	21 (15)	DCBMACR1	50 (32)		
DCBBUFCB DCBBUFCT	20 (14) 34 (22)	DCBMACR2 DCBMRABC	51 (33) 50 X'04'		
DCBBUFL	24 (18)	DCBMRAPG	50 X'20'		
DCBBUFNO	20 (14)	DCBMRAWR	51 X'02'		
DCBDDNAM	40 (28)	DCBMRCHK	50 X'02'		
DCBDEBA	45 (2D)	DCBMRCI	50 X'10'		
DCBDEBAD	44 (2C)	DCBMRCK	50 X'01'		
DCBDEVTP DCBDSGCQ	28 (1C) 26 X'08'	DCBMRCRL DCBMRCTL	50 X'02' 51 X'02'		
DCBDSGCQ	26 X'10'	DCBMRDBF	50 X'04'		
DCBDSGDA	26 X'20'	DCBMRDMD	51 X'01'		
DCBDSGGS	27 X'80'	DCBMRDMG	50 X'01'		
DCBDSGIS	26 X'80'	DCBMRECP	50 X'80'		
DCBDSGMQ	26 X'04'	DCBMRFE	50 X'40'		
DCBDSGPO DCBDSGPS	26 X'02' 26 X'40'	DCBMRGET	50 X'40' 51 X'40'		
DCBDSGTQ	20 X 40 27 X'20'	DCBMRGTQ DCBMRIDW	51 X'40'		
DCBDSGTX	27 X'40'	DCBMRLCG	50 X'08'		
DCBDSGU	26 X'01'	DCBMRLCP	51 X'08'		
DCBDSORG	26 (1A)	DCBMRLDM	51 X'08'		
DCBDSRG1	26 (1A)	DCBMRMVG	50 X'10'		
DCBDSRG2	27 (1B)	DCBMRMVP	51 X'10'		
DCBEIOBX DCBERPC	36 (24) 33 X'08'	DCBMRPTQ DCBMRPT1	50 X'40' 50 X'04'		
DCBERPN	33 X'01'	DCBMRPT2	51 X'04'		
DCBERPR	33 X'02'	DCBMRPUT	51 X'40'		
DCBERPT	33 X'10'	DCBMRRD	50 X'20'		
DCBERPW	33 X'04'	DCBMRRDI	50 X'08'		
DCBERROP	33 (21)	DCBMRRDK	50 X'10'		
DCBEX DCBEXLSA	49 X'40' 37 (25)	DCBMRRDQ DCBMRRDX	51 X'20' 50 X'02'		
DCBEXLST	36 (24)	DCBMRSBG	50 X'04'		
DCBHIARC	32 (20)	DCBMRSTI	51 X'01'		
DCBH0	32 X'04'	DCBMRSTK	51 X'02'		
DCBH1	32 X'80'	DCBMRSTL	51 X'80'		
DCBIBEC	49 X'CO'	DCBMRSWA	51 X'01'		
DCBIBIOE DCBIBPCT	49 X'0C' 49 X'30'	DCBMRTMD DCBMRUIP	51 X'04' 51 X'04'		
DCBIFC12	49 X'10'	DCBMRWRK	51 X'10'		
DCBIFC9	49 X'20'	DCBMRWRQ	50 X'20'		
DCBIFEC	44 X'CO'	DCBMRWRT	51 X'20'		
		END OF	DCB - BTAM		

Data Control Block -- GAM

This data control block (DCB) is used by the graphics access method (GAM) routines. It has the common interface and foundation sections, which serve the same purposes for all access method routines, although the format may vary slightly among them. An interface section that contains information about a particular graphic device precedes the common section.

OFF	SET	LENGT	H NAME	DESCRIPTION		
				GRAPHIC DEVICE INTERFACE		
0	(0)	12		RESERVED		
12	(C)	2	DCBBRSA	BUFFER RESTART ADDRESS. BLANK BEFORE EXECUTION OF SECOND I/O OPERATION		
14	(E)	1	DCBGTYPE	TYPE OF BUFFER MANAGEMENT AND ATTENTION HANDLING		
		1		EXPRESS BASIC		
15	(F)	1		RESERVED		
16	(10)	2	DCBBFRST	BLANK BEFORE EXECUTION OF OPEN ROUTINE. STARTING ADDRESS FOR BUFFER AFTER EXECUTION OF OPEN ROUTINE		
18	(12)	2	DCBBFRSZ	BLANK BEFORE EXECUTION OF OPEN ROUTINE. SIZE OF BUFFER AFTER EXECUTION OF OPEN ROUTINE. COMMON INTERFACE		
20	(14)	6		RESERVED		
26	(1A)	2	DCBDSORG	DATA SET ORGANIZATION BEING USED		
26	.1.	1	DCBDSGPS DCBDSGDA DCBDSGCX DCBDSGCQ DCBDSGMQ	FIRST BYTE OF DCBDSORG IS - INDEXED SEQUENTIAL ORGANIZATION PS - PHYSICAL SEQUENTIAL ORGANIZATION DA - DIRECT ORGANIZATION CX - BTAM LINE GROUP RESERVED RESERVED PO - PARTITIONED ORGANIZATION U - UNMOVABLE, THE DATA CONTAINS LOCATION DEPENDENT INFORMATION		
27	1 .1. 1		DCBDSRG2 DCBDSGGS DCBDSGTX DCBDSGTQ DCBACBM	SECOND BYTE OF DCBDSORG GS - GRAPHICS ORGANIZATION TX - TCAM LINE GROUP TQ - TCAM MESSAGE QUEUE ACCESS METHOD CONTROL BLOCK		
28	(1C)	4	DCBIOBAD	BLANK BEFORE EXECUTION OF OPEN ROUTINE. ADDRESS OF STANDARD FIELDS OF FIRST IOB AFTER EXECUTION OF OPEN ROUTINE		
FOUNDATION EXT				TENSION		
32	(20)	4	DCBPOLST	ADDRESS OF AREA WHERE A DCB LIST IS TO BE CONSTRUCTED FOR POLLING PURPOSES		
32	(20)	1	DCBGNCP	NUMBER OF I/O INSTRUCTIONS TO BE ISSUED BEFORE A WAIT MACRO INSTRUCTION		
33	(21)	3	DCBPOLSA	SAME AS DCBPOLST ABOVE		
36	(24)	4	DCBEXLST	ADDRESS OF USER'S EXIT LIST		
36	(24)	1		RESERVED		
37	(25)	3	DCBEXLSA	ADDRESS OF USER'S EXIT LIST		
	FOUNDATION BEFORE OPEN					
40	(28)	8	DCBDDNAM	8-BYTE NAME FROM DD STATEMENT THAT DEFINES DATA SET ASSOCIATED WITH THIS DCB		
48	(30)	1	DCBOFLG DCBOFGRW	FLAGS USED BY OPEN ROUTINE IF ZERO, LAST I/O OPERATION WAS GREAD. IF ONE, LAST I/O OPERATION WAS GWRITE.		

OFF	SET L	ENGT	H NAME	DESCRIPTION
	1.	• • • •	DCBOFEOV	SET TO 1 BY EOV WHEN IT CALLS CLOSE ROUTINE FOR CONCATENATION OF DATA SETS WITH UNLIKE ATTRIBUTES
	1	_	DCBOFOPN DCBOFPPC	AN OPEN HAS BEEN SUCCESSFULLY COMPLETED SET TO 1 BY PROBLEM PROGRAM TO INDICATE CONCATENATION OF UNLIKE ATTRIBUTES
			DCBOFTM DCBOFUEX	TAPE MARK HAS BEEN READ SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN THAT FUNCTION TAKES A USER EXIT. SET TO ON RETURN FROM USER EXIT TO THE I/O SUPPORT FUNCTION WHICH TOOK THE EXIT.
	••••	1	DCBOFIOF	SET TO 1 BY AN I/O SUPPORT FUNCTION IF DCB IS TO BE PROCESSED BY THAT FUNCTION
49	(31)	1	DCBIFLG	SET TO ZERO BY GRAPHIC ROUTINES BUT USED BY IOS IN COMMUNICATING ERROR CONDITIONS AND IN DETERMINING CORRECTIVE PROCEDURES
50	(32)	2	DCBMACR	MACRO INSTRUCTION REFERENCE
50			DCBMACR1 DCBMRRD DCBMRCRL	FIRST BYTE OF DCBMACR READ CNTRL
51	`í.		DCBMACR2 DCBMRWRT DCBMRCTL	SECOND BYTE OF DCBMACR WRITE CNTRL
		F	OUNDATION AF	TER OPEN
40	(28)	2	DCBTIOT	OFFSET FROM TIOT ORIGIN TO DD ENTRY ASSOCIATED WITH THIS DCB
42	(2A)	2	DCBMACRF	SAME AS DCBMACR BEFORE OPEN
42	(2A)	1	DCBMACF1	FIRST BYTE OF DCBMACRF
43	(2B)	1	DCBMACF2	SECOND BYTE OF DCBMACRF
44	(2C)	4	DCBDEBAD	ADDRESS OF ASSOCIATED DEB
44	(2C)	1	DCBIFLGS	SAME AS DCBIFLG BEFORE OPEN
45	(2D)	3	DCBDEBA	ADDRESS OF ASSOCIATED DEB
48	(30)	4	DCBGIOCR	ADDRESS OF GRAPHICS I/O CONTROL ROUTINE
48	(30)	1	DCBOFLGS	SAME AS DCBOFLG BEFORE OPEN
49	(31)	3	DCBGIOCA	ADDRESS OF GRAPHICS I/O CONTROL ROUTINE

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ <u>EQU</u> VALUE	NAME	OFFSETS/ EQU VALUE
DCBACBM DCBBFRST DCBBFRSZ DCBBRSA DCBDDNAM DCBDEBA DCBDEBAD DCBDSGCQ DCBDSGCX DCBDSGGS DCBDSGGS DCBDSGGS DCBDSGFQ DCBDSGTQ DCBDSGTQ DCBDSGTQ DCBDSGTX DCBDSGTQ DCBDSGTX DCBGTSG1 DCBGTSAS DCBGTEXP DCBGTSAS DCBGTEXP DCBGTSAS DCBGTSAS DCBMACR1 DCBMACR1 DCBMACR1 DCBMACR1 DCBMRCTL DCBMRCTL DCBMRCTL DCBMRCTL DCBMRCTL DCBMRCTL DCBMRCTL DCBMRCTL DCBMCTL DCBMCTL DCBMCTL DCBMCTCL DCBMCTL DCB	PQU VALUE 0 (0) 15 (F) 20 (14) 36 (24) 27 X'08' 16 (10) 18 (12) 12 (C) 40 (28) 45 (2D) 44 (2C) 26 X'08' 26 X'10' 26 X'20' 27 X'80' 26 X'40' 27 X'40' 27 X'40' 27 X'40' 27 X'40' 27 X'40' 27 X'40' 28 (1A) 29 (1B) 37 (25) 36 (24) 49 (31) 48 (30) 32 (20) 14 X'01' 14 X'00' 14 (E) 49 (31) 48 (30) 32 (20) 14 X'01' 14 X'00' 14 (E) 49 (31) 48 (30) 48 (30) 48 (30) 48 X'02' 51 X'20' 48 X'20' 48 X'20' 48 X'00'				
DCBTIOT	40 (28)	END (OF DCB - GAM		
		11.10	J. DOD 0181		

Data Control Block -- TCAM

The format of the data control block (DCB) used by the telecommunications access method (TCAM) depends on the type of data set it represents. The five types of DCB formats used in TCAM message control programs and application programs are:

- Line groups.
- Message queues.
- Checkpoint data set.
- · Message Logging.
- Application programs.

OFF	SET	LENGT	H NAME	DESCRIPTION
		TCA	M LINE GROUP	INTERFACE
20	(14)	4	DCBMHA	SAME AS DCBMH BELOW
20	(14)		DCBBUFIN	NUMBER OF INPUT BUFFERS (BITS 0-3)
20			DCBBUFOU DCBBFIN	NUMBER OF OUTPUT BUFFERS (BITS 4-7) NUMBER OF BUFFERS ASSIGNED INITIALLY FOR RECEIVING OPERATIONS, FOR EACH LINE IN LINE GROUP
	•••	. 1111	DCBBFOUT	NUMBER OF BUFFERS ASSIGNED INITIALLY FOR SENDING OPERATIONS, FOR EACH LINE IN LINE GROUP
21	(15)	3	DCBMH	ADDRESS OF MESSAGE HANDLER FOR THIS LINE GROUP
24	(18)	1	DCBINTVL	NUMBER OF SECONDS OF INVITATION DELAY
25	.1.	1	DCBPCIA2	PROGRAM CONTROLLED INTERRUPTION HANDLING PCI=(X,) PCI=(,X) PCI=(A,) PCI=(A,) PCI=(N,) PCI=(N,) PCI=(R,) PCI=(R,) PCI=(,R)
26	(1A)	2	DCBDSORG	DATA SET ORGANIZATION BEING USED
26	1	1	DCBDSGPS DCBDSGDA DCBDSGCX DCBDSGCQ	FIRST BYTE OF DCBDSORG IS - INDEXED SEQUENTIAL ORGANIZATION PS - PHYSICAL SEQUENTIAL ORGANIZATION DA - DIRECT ORGANIZATION CX - BTAM LINE GROUP RESERVED RESERVED PO - PARTITIONED ORGANIZATION U - UNMOVABLE, THE DATA CONTAINS LOCATION DEPENDENT INFORMATION
27	.1.		DCBDSGTQ	SECOND BYTE OF DCBDSORG GS - GRAPHICS ORGANIZATION TX - TCAM LINE GROUP TQ - TCAM MESSAGE QUEUE ACCESS METHOD CONTROL BLOCK
28	(1C)	1	DCBBUFMA	MAXIMUM NUMBER OF BUFFERS TO BE USED FOR DATA TRANSFER FOR EACH LINE IN THIS GROUP QTAM LINE GROUP INTERFACE
20	(14)	4	DCBCLPS	ADDRESS OF LINE PROCEDURE SPECIFICATION ROUTINE
20	(14)	1	DCBBUFRQ	NUMBER OF BUFFERS REQUESTED FOR A READ OR WRITE OPERATION
21	(15)	3	DCBCLPSA	SAME AS DCBCLPS ABOVE
24	(18)	1	DCBINTVL	NUMBER OF SECONDS OF INTENTIONAL DELAY BETWEEN PASSES THROUGH A POLLING LIST FOR NONSWITCHED LINES
25	(19)	1		RESERVED
26	(1A)	1	DCBDSRG1	FIRST BYTE OF DCBDSORG

OF	FSET	LENGT	H NAME	DESCRIPTION
27	(1B)	1	DCBDSRG2	SECOND BYTE OF DCBDSORG
28	(1C)	4	DCBIOBAD	ADDRESS OF FIRST IOB
28	(1C)	1	DCBDEVTP	DEVICE TYPE POINTER
29	(1D)	3	DCBIOBAA	ADDRESS OF FIRST IOB
32	(20)	4	DCBTRANA	ADDRESS OF TRANSLATION TABLE
32	(20)	1	DCBCPRI	COMMUNICATION PRIORITY BITS
33	(21)	3	DCBTRANS	ADDRESS OF TRANSLATION TABLE
32	(20)	4	DCBLCBAD	BASE FOR ADDRESSING LCB'S (BASE = ADDRESS OF FIRST LCB MINUS LENGTH OF ONE LCB)
32	• • •	1.	DCBCPRI DCBCPR DCBCPE DCBCPS	COMMUNICATION PRIORITY BITS RECEIVING HAS PRIORITY RECEIVING AND SENDING HAVE EQUAL PRIORITY SENDING HAS PRIORITY
33	(21)	3	DCBLCBA	SAME AS DCBLCBAD ABOVE
36	(24)	4	DCBEXLST	ADDRESS OF EXIT LIST
36	(24)	1	DCBEIOBX	EXTENDED IOB INDEX. SIZE OF LCB
37	(25)	3	DCBEXLSA	ADDRESS OF EXIT LIST
			PROBLEM PROG	RAM MESSAGE QUEUE INTERFACE
20	(14)	4	DCBTRMAD	ADDRESS OF USER-PROVIDED AREA IN WHICH THE TERMINAL NAME IS STORED
20	(14)	1	DCBBUFRQ	NUMBER OF BUFFERS TO BE FILLED FROM THE DIRECT ACCESS QUEUE
21	(15)	3	DCBTRMA	SAME AS DCBTRMAD ABOVE
24	(18)	2	DCBSOWA	SIZE OF USER-PROVIDED WORK AREA
26	(1A)	1	DCBDSRG1	FIRST BYTE OF DCBDSORG
27	(1B)	1	DCBDSRG2	SECOND BYTE OF DCBDSORG
28	(1C)	4	DCBIOBAD	BASE FOR ADDRESSING IOB'S
28	(1C)	4	DCBSEGAD	ADDRESS OF CURRENT SEGMENT
32	(20)	1	DCBTHRES	FOR NON-REUSABLE MESSAGE QUEUE RECORDS, PERCENTAGE OF NON-REUSABLE DISK MESSAGE QUEUE RECORDS TO BE USED BEFORE A FLUSH CLOSEDOWN OF THE SYSTEM IS INITIATED. FOR REUSABLE MESSAGE QUEUE RECORDS AND CHECKPOINT RECORDS, THIS FIELD IS RESERVED
32	(20)	4	DCBEODAD	ADDRESS OF USER-PROVIDED ROUTINE
36	,		DCBRECFM	RECORD FORMAT
		1	DCBRECR DCBRECG DCBRECS	RECORD MESSAGE SEGMENT
37	(25)	3	DCBEXLSA	ADDRESS OF EXIT LIST
			FOUNDATION E	BEFORE OPEN
40	(28)	8	DCBDDNAM	NAME ON THE DD STATEMENT WHICH DEFINES THE DATA SET ASSOCIATED WITH THIS DCB
48			DCBOFLGS DCBOFLWR	FLAGS USED BY OPEN ROUTINE IF ZERO, LAST I/O OPERATION WAS READ OR POINT. IF ONE, LAST I/O OPERATION WAS WRITE.

OFF	SET LENGT	<u>'H</u> <u>NAME</u>	DESCRIPTION
	1	DCBOFIOD	DATA SET IS BEING OPENED FOR INPUT OR OUTPUT (BDAM)
	.1		LAST I/O OPERATION WAS IN READ BACKWARD MODE SET TO 1 BY EOV WHEN IT CALLS CLOSE ROUTINE FOR CONCATENATION OF DATA SETS WITH UNLIKE ATTRIBUTES
	1	DCBOFPPC	AN OPEN HAS BEEN SUCCESSFULLY COMPLETED SET TO 1 BY PROBLEM PROGRAM TO INDICATE CONCATENATION OF UNLIKE ATTRIBUTES
	1	DCBOFTM DCBOFUEX	TAPE MARK HAS BEEN READ SET TO 0 BY AN I/O SUPPORT FUNCTION WHEN THAT FUNCTION TAKES A USER EXIT. SET TO ON RETURN FROM USER EXIT TO THE I/O SUPPORT FUNCTION WHICH TOOK THE EXIT.
	1	DCBOFIOF	SET TO 1 BY AN I/O SUPPORT FUNCTION IF DCB IS TO BE PROCESSED BY THAT FUNCTION
49	(31) 1	DCBIFLG	FLAGS USED BY IOS IN COMMUNICATING ERROR CONDITIONS AND IN DETERMINING CORRECTIVE PROCEDURES
	11	DCBIFNEP	ERROR CORRECTION INDICATOR NOT IN ERROR PROCEDURE
	.1 11		ERROR CORRECTION OR IOS PAGE FIX IN PROCESS PERMANENT ERROR CORRECTION
	11		PRINTER CARRIAGE TAPE PUNCH INDICATOR
	1		CHANNEL 9 PRINTER CARRIAGE TAPE PUNCH SENSED
	1		CHANNEL 12 PRINTER CARRIAGE TAPE PUNCH SENSED
	11	DCBIBIOE	IOS ERROR ROUTINE USE INDICATOR
			ALWAYS USE I/O SUPERVISOR ERROR ROUTINE
	1		NEVER USE I/O SUPERVISOR ERROR ROUTINE
	1	DCBIFTIM	TEST IOS MASK (IMSK) FOR ERROR PROCEDURE
	1	DCBIFNE2	(BTAM) NEVER USE I/O SUPERVISOR ERROR ROUTINE
	11		NEVER USE I/O SUPERVISOR ERROR ROUTINE
50	(32) 2		MACRO INSTRUCTION REFERENCE
50	(32) 1	DCRMACR 1	FIRST BYTE OF DCBMACR
30	1		EXECUTE CHANNEL PROGRAM (EXCP) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, QISAM, BDAM) RESERVED (BTAM)
		DCBMRFE	FOUNDATION EXTENSION IS PRESENT (EXCP)
	.1		GET (QSAM, QISAM, TCAM)
	.1		PUT FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO (BSAM, BPAM, BISAM, BDAM) RESERVED (BTAM)
	1		APPENDAGES ARE REQUIRED (EXCP)
	1		READ (BSAM, BPAM, BISAM, BDAM, BTAM) WRITE FOR LINE GROUP (QTAM)* ALWAYS ZERO
		DCBMKWKQ	(QSAM, QISAM)
	1	DCBMRCI	COMMON INTERFACE (EXCP)
	1		MOVE MODE OF GET (QSAM, QISAM)
	1		KEY SEGMENT WITH READ (BDAM) ALWAYS ZERO
			(BISAM) RESERVED (BSAM, BPAM, BTAM)
	1		LOCATE MODE OF GET (QSAM, QISAM)
	1	DCBMRRDI	ID ARGUMENT WITH READ (BDAM) ALWAYS ZERO (BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
	1		USER'S PROGRAM MAINTAINS ACCURATE BLOCK COUNT (EXCP)
	1		POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)
	1		SUBSTITUTE MODE OF GET (QSAM)
	1		DYNAMIC BUFFERING (BISAM, BDAM) ALWAYS ZERO (QISAM) RESERVED (BTAM)
	1.		PAGE FIX APPENDAGE IS SPECIFIED (EXCP) CNTRL (BSAM, QSAM)

OFF	SET	LENGTH	<u>NAME</u>	DESCRIPTION
		1.	DCBMRCHK DCBMRRDX	CHECK (BISAM) READ EXCLUSIVE (BDAM) RESERVED (BPAM, QISAM, BTAM)
		1	DCBMRDMG DCBMRCK	DATA MODE OF GET (QSAM) CHECK (BDAM) RESERVED (EXCP, BSAM, BPAM, BISAM, QISAM, BTAM)
51	(33)	1	DCBMACR2	SECOND BYTE OF DCBMACR
			DCBMRSTL	SETL (QISAM) ALWAYS ZERO (BSAM, QSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
			DCBMRPUT DCBMRGTQ	PUT (QSAM, TCAM) - PUT OR PUTX (QISAM) GET FOR MESSAGE GROUP (QTAM)* ALWAYS ZERO
		• • • •	DCBMRGIQ	(BSAM, BPAM, BISAM, BDAM) RESERVED (EXCP, BTAM)
			DCBMRWRT	WRITE (BSAM, BPAM, BISAM, BDAM, BTAM)
	1.	• • • •	DCBMRRDQ	READ FOR LINE GROUP (QTAM)* ALWAYS ZERO
	1		DCBMRMVP	(QSAM, QISAM) RESERVED (EXCP) MOVE MODE OF PUT (QSAM, QISAM)
			DCBMRWRK	KEY SEGMENT WITH WRITE (BDAM) ALWAYS ZERO
				(BISAM) RESERVED (EXCP, BSAM, BPAM, BTAM)
			DCBMR5WD	FIVE-WORD DEVICE INTERFACE (EXCP)
		1 1	DCBMRLDM DCBMRLCP	LOAD MODE BSAM (CREATE BDAM DATA SET) (BSAM) LOCATE MODE OF PUT (QSAM, QISAM)
		1	DCBMRIDW	ID ARGUMENT WITH WRITE (BDAM) ALWAYS ZERO
	• • • •		DODINGDW	(BISAM) RESERVED (BPAM, BTAM)
		.1	DCBMR4WD	FOUR-WORD DEVICE INTERFACE (EXCP)
		.1	DCBMRPT2	POINT (WHICH IMPLIES NOTE) (BSAM, BPAM)
		.1	DCBMRTMD	SUBSTITUTE MODE (QSAM)
	• • • •	.1	DCBMRUIP	UPDATE IN PLACE (PUTX) (QISAM) ALWAYS ZERO (BISAM) RESERVED (BDAM, BTAM)
		1.	DCBMR3WD	THREE-WORD DEVICE INTERFACE (EXCP)
		1.	DCBMRCTL	CNTRL (BSAM, QSAM)
		1.	DCBMRSTK	SETL BY KEY (QISAM)
	• • • •	1.	DCBMRAWR	ADD TYPE OF WRITE (BDAM) ALWAYS ZERO
		1	DCBMR 1WD	(BISAM) RESERVED (BPAM, BTAM) ONE-WORD DEVICE INTERFACE (EXCP)
		1	DCBMRSWA	USER'S PROGRAM HAS PROVIDED A SEGMENT WORK
				AREA POOL (BSAM CREATE BDAM, BDAM)
		1	DCBMRDMD	DATA MODE (QSAM)
	• • • •	1	DCBMRSTI	SETL BY ID (QISAM) ALWAYS ZERO (BISAM) RESERVED (BPAM, BTAM)
		E	FOUNDATION A	AFTER OPEN
40	(28)	2	DCBTIOT	OFFSET FROM TIOT ORIGIN TO TIOELNGH FIELD IN TIOT ENTRY FOR DD STATEMENT ASSOCIATED WITH THIS DCB
42	(2A)	2	DCBMACRF	SAME AS DCBMACR BEFORE OPEN
42	(2A)	1	DCBMACF1	FIRST BYTE OF DCBMACRF
43	(2B)	1	DCBMACF2	SECOND BYTE OF DCBMACRF
44	(2C)	4	DCBDEBAD	ADDRESS OF ASSOCIATED DEB
44	(2C)	1	DCBIFLGS	SAME AS DCBIFLG BEFORE OPEN
	11		DCBIFEC DCBIFPCT	ERROR CORRECTION INDICATOR PRINTER CARRIAGE TAPE PUNCH INDICATOR
			DCBIFIOE	IOS ERROR ROUTINE USE INDICATOR
45	(2D)	3	DCBDEBA	ADDRESS OF ASSOCIATED DEB

OFF	SET	LENGTH	H NAME	DESCRIPTION
		י	CAM LINE GRO	OUP EXTENSION
48	(30)	4	DCBSCTAB	ADDRESS OF SPECIAL CHARACTERS TABLE (SCT)
48	(30)	1	DCBOFLGS	FLAGS USED BY OPEN ROUTINE
49	(31)	3	DCBSCTAD	ADDRESS OF SPECIAL CHARACTERS TABLE (SCT)
52	(34)	1	DCBILCT	COUNT OF INVITATION LISTS
53	(35)	1	DCBUNTCT	BEFORE OPEN - NUMERICAL VALUE OF SCT. AFTER OPEN - COUNT OF UNITS FOR 1 BUFFER.
54	(36)	2	DCBBUFSI	SIZE OF ALL BUFFERS USED FOR THIS LINE GROUP
56	(38)	4	DCBRESER	NUMBER OF RESERVED BYTES IN BUFFERS
56	(38)	1	DCBRESB1	NUMBER OF BYTES RESERVED IN THE BUFFER RECEIVING FIRST INCOMING SEGMENT OF A MESSAGE
57	(39)	1	DCBRESB2	NUMBER OF BYTES RESERVED IN ALL BUFFERS EXCEPT THE ONE CONTAINING FIRST SEGMENT OF A MESSAGE
58	(3A)	2		RESERVED
		THE	FOLLOWING 4	BYTES MAY BE REPEATED 'N' TIMES
60	(3C)	4	DCBINVLI	ADDRESS OF INVITATION LIST
60	(3C)	1	DCBINVCI	TYPE OF COMMUNICATION INTERFACE FOR 2701 DATA
	1		DCBINVB1 DCBINVB2	ADAPTER UNIT IF ZERO, UNIT (A,) IF ONE, UNIT (B,) IF ZERO, UNIT (,A) IF ONE, UNIT (,B)
61	(3D)	3	DCBINVLA	ADDRESS OF INVITATION LIST
		ŗ	TCAM MESSAGE	QUEUE INTERFACE
52			DCBOPTCD DCBOPTWP	OPTION CODES SOURCE OR DESTINATION NAME PRECEDES MESSAGE (AFTER CONTROL BYTE) (TCAM PROCESS QUEUE)
	.1.		DCBOPTUM	WORK UNIT IS A MESSAGE. DEFAULT WORK UNIT IS A RECORD. (TCAM PROCESS OUEUE)
	1		DCBOPTCB	CONTROL BYTE PRECEDES WORK UNIT (TCAM PROCESS QUEUE)
	1	1.	DCBOPTCP DCBOPTIM	CHECKPOINT DATA SET NON-REUSABLE MESSAGE QUEUE DATA SET
	•••		DCBOPTRM	REUSABLE MESSAGE QUEUE DATA SET
53	(35)			RESERVED
62	(3E)	2	DCBBLKSI	BLOCK SIZE

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/
	TOO VALUE		EQU VALUE		EQU VALUE
	24 (18)	DCBIFLGS	44 (2C)	DCBMRSTL	51 X'80'
	25 (19)	DCBIFNEP	49 X'00'	DCBMRSWA	51 X'01'
	26 (1A)	DCBIFNE1	49 X'04'	DCBMRTMD	51 X'04'
	27 (1B) 32 (20)	DCBIFNE2 DCBIFNE3	49 X'08' 49 X'0C'	DCBMRUIP	51 X'04'
	20 (14)	DCBIFPCT	44 X'30'	DCBMRWRK DCBMRWRQ	51 X'10' 50 X'20'
	26 (1A)	DCBIFPEC	49 X'CO'	DCBMRWRQ	50 X 20 51 X'20'
	27 (1B)	DCBIFTIM	49 X'04'	DCBMR 1WD	51 X'01'
	28 (1C)	DCBILCT	52 (34)	DCBMR3WD	51 X'02'
	37 (25)	DCBINTVL	24 (18)	DCBMR4WD	51 X'04'
	48 (30)	DCBINVB1	60 X'20'	DCBMR5WD	51 X'08'
	58 (3A)	DCBINVB2	60 X'08'	DCBOFEOV	48 X'20'
	53 (35)	DCBINVCI	60 (3C)	DCBOFIOD	48 X'80'
DCBACBM	27 X'08'	DCBINVLA	61 (3D)	DCBOFIOF	48 X'01'
DCBBFIN DCBBFOUT	20 X'FO' 20 X'OF'	DCBINVLI	60 (3C)	DCBOFLGS	48 (30)
DCBBLKSI	62 (3E)	DCBIOBAA DCBIOBAD	29 (1D) 28 (1C)	DCBOFLRB	48 X'40'
DCBBUFIN	20 (14)	DCBLCBA	33 (21)	DCBOFLWR DCBOFOPN	48 X'80' 48 X'10'
DCBBUFMA	28 (1C)	DCBLCBAD	32 (20)	DCBOFOPN	48 X'08'
DCBBUFOU	20 (14)	DCBMACF1	42 (2A)	DCBOFTM	48 X'04'
DCBBUFRQ	20 (14)	DCBMACF2	43 (2B)	DCBOFUEX	48 X'02'
DCBBUFSI	54 (36)	DCBMACR	50 (32)	DCBOPTCB	52 X'20'
DCBCLPS	20 (14)	DCBMACRF	42 (2A)	DCBOPTCD	52 (34)
DCBCLPSA	21 (15)	DCBMACR1	50 (32)	DCBOPTCP	52 X'20'
DCBCPE	32 X'02'	DCBMACR2	51 (33)	DCBOPTIM	52 X'02'
DCBCPR	32 X'04'	DCBMH	21 (15)	DCBOPTRM	52 X'01'
DCBCPRI	32 (20)	DCBMHA	20 (14)	DCBOPTUM	52 X'40'
DCBCPS DCBDDNAM	32 X'01' 40 (28)	DCBMRABC	50 X'04'	DCBOPTWP	52 X'80'
DCBDEBA	45 (2D)	DCBMRAPG DCBMRAWR	50 X'20' 51 X'02'	DCBPCI	25 (19)
DCBDEBAD	44 (2C)	DCBMRCHK	50 X'02'	DCBPCIA1 DCBPCIA2	25 X'20' 25 X'10'
DCBDEVTP	28 (1C)	DCBMRCI	50 X'10'	DCBPCIN1	25 X'08'
DCBDSGCQ	26 X'08'	DCBMRCK	50 X'01'	DCBPCIN2	25 X'04'
DCBDSGCX	26 X'10'	DCBMRCRL	50 X'02'	DCBPCIR1	25 X'02'
DCBDSGDA	26 X'20'	DCBMRCTL	51 X'02'	DCBPCIR2	25 X'01'
DCBDSGGS	27 X'80'	DCBMRDBF	50 X'04'	DCBPCIX1	25 X'80'
DCBDSGIS	26 X'80'	DCBMRDMD	51 X'01'	DCBPCIX2	25 X'40'
DCBDSGMQ	26 X'04'	DCBMRDMG	50 X'01'	DCBPGFXA	50 X'02'
DCBDSGPO DCBDSGPS	26 X'02' 26 X'40'	DCBMRECP DCBMRFE	50 X'80' 50 X'40'	DCBRECFM	36 (24)
DCBDSGFS	20 X 40 27 X'20'	DCBMRGET	50 X'40'	DCBRECG	36 X'04'
DCBDSGTX	27 X'40'	DCBMRGTQ	51 X'40'	DCBRECR DCBRECS	36 X'02' 36 X'08'
DCBDSGU	26 X'01'	DCBMRIDW	51 X'08'	DCBRESB1	56 (38)
DCBDSORG	26 (1A)	DCBMRLCG	50 X'08'	DCBRESB2	57 (39)
DCBDSRG1	26 (1A)	DCBMRLCP	51 X'08'	DCBRESER	56 (38)
DCBDSRG2	27 (1B)	DCBMRLDM	51 X'08'	DCBSCTAB	48 (30)
DCBEIOBX	36 (24)	DCBMRMVG	50 X'10'	DCBSCTAD	49 (31)
DCBEODAD	32 (20)	DCBMRMVP	51 X'10'	DCBSEGAD	28 (1C)
DCBEX	49 X'40'	DCBMRPTQ	50 X'40'	DCBSOWA	24 (18)
DCBEXLSA DCBEXLST	37 (25) 36 (24)	DCBMRPT1	50 X'04' 51 X'04'	DCBTHRES	32 (20)
DCBIBEC	49 X'CO'	DCBMRPT2 DCBMRPUT	51 X'40'	DCBTIOT DCBTRANA	40 (28)
DCBIBIOE	49 X'0C'	DCBMRRD	50 X'20'	DCBTRANA	32 (20) 33 (21)
DCBIBPCT	49 X'30'	DCBMRRDI	50 X'08'	DCBTRMA	21 (15)
DCBIFC12	49 X'10'	DCBMRRDK	50 X'10'	DCBTRMAD	20 (14)
DCBIFC9	49 X'20'	DCBMRRDQ	51 X'20'	DCBUNTCT	53 (35)
DCBIFEC	44 X'CO'	DCBMRRDX	50 X'02'		•
DCBIFER	49 X'00'	DCBMRSBG	50 X'04'		
DCBIFIOE DCBIFLG	44 X'OC'	DCBMRSTI	51 X'01'		
DCDILTG	49 (31)	DCBMRSTK FND OF	51 X'02' DCB - TCAM		
		END OF	DCD - TCAM		

Data Extent Block

The data extent block (DEB) contains an extension of the information in the DCB. Each DEB is associated with a DCB, and the two point to each other. The DEB contains information concerning the physical characteristics of the data set and other information that is used by the control program.

OFFSET LENGTH NAME DESCRIPTION APPENDAGE VECTOR TABLE SECTION OF THE DEB 0 (0) 8 DEBAVT APPENDAGE VECTOR TABLE 0 (0)**DEBEOEA** ADDRESS OF END-OF-EXTENT APPENDAGE O (0)1 DEBEOEAB FLAG BYTE DEBRSV19 RESERVED DEBRSV20 RESERVED .1.. DEBRSV21 RESERVED ..1. DEBRSV22 ...1 RESERVED XXXX DEBEOENP NUMBER OF PAGES TO BE FIXED FOR THE END OF EXTENT APPENDAGE ADDRESS OF END-OF-EXTENT APPENDAGE (1) 3 DEBEOEAD 1 (4)DEBSIOA ADDRESS OF START I/O APPENDAGE 4 (4)**DEBSIOAB** FLAG BYTE **DEBPGFX** ADDRESS IN FOLLOWING 3 BYTES CAN BE USED TO 1... DETERMINE THE ENTRY POINT FOR THE PAGE FIX (PGFX) APPENDAGE. THE ENTRY POINT FOR THE PGFX APPENDAGE IS COMPUTED BY ADDING 4 TO THE ADDRESS OF THE ENTRY POINT TO THE SIO APPENDAGE. IF ZERO, DO NOT ENTER SIO APG WHEN ERP DEBSIOX ACTIVE. IF ONE, ENTER SIO APG EVEN WHEN ERP ACTIVE. IF ONE, IT INDICATES THAT AN EXCPVR REQUEST ..1. **DEBIOVR** IS VALID. IF ZERO, IT INDICATES THAT AN EXCPVR REQUEST IS INVALID AND WILL NOT BE ALLOWED TO GO THROUGH DEBRSV23 RESERVED ...1 XXXX DEBSIONP NUMBER OF PAGES TO BE FIXED FOR THE SIO **APPENDAGE** 5 (5) 3 DEBSIOAD ADDRESS OF START I/O APPENDAGE 8 (8)4 ADDRESS OF PCI APPENDAGE DEBPCIA 8 (8) 1 DEBPCIAB FLAG BYTE DEBRSV24 RESERVED 1...1.. DEBRSV25 RESERVED ..1. DEBRSV26 RESERVED DEBRSV27 RESERVED . . . 1 XXXX DEBPCINP NUMBER OF PAGES TO BE FIXED FOR THE PCI APPENDAGE (9)9 3 DEBPCIAD ADDRESS OF PCI APPENDAGE 12 (C) 4 DEBCEA ADDRESS OF CHANNEL-END APPENDAGE 1.2 (C) 1 DEBCEAB FLAG BYTE DEBRSV28 RESERVED 1...1.. DEBRSV29 RESERVED RESERVED DEBRSV30 . . 1 DEBRSV31 RESERVED ...1 XXXX NUMBER OF PAGES TO BE FIXED FOR THE DEBCENP CHANNEL END APPENDAGE 13 (D) 3 DEBCEAD ADDRESS OF CHANNEL-END APPENDAGE ADDRESS OF ABNORMAL-END APPENDAGE 16 (10)DEBXCEA 16 (10)1 **DEBXCEAB** FLAG BYTE DEBRSV32 RESERVED RESERVED DEBRSV33 .1..1. DEBRSV34 RESERVED DEBRSV35 RESERVED . . . 1

OF	FSET 1	LENGTE	H NAME	DESCRIPTION
	• • • •	XXXX	DEBXCENP	NUMBER OF PAGES TO BE FIXED FOR THE ABNORMAL END APPENDAGE
17	(11)	3	DEBXCEAD	ADDRESS OF ABNORMAL-END APPENDAGE
		DEB	PREFIX TABLE	Ε
-16	(-10)	4	DEBPREFX	DEB PREFIX TABLE
-16	(-10)	1	DEBWKARA	I/O SUPPORT WORK AREA
-15	(-F)	7	DEBDSCBA	DSCB ADDRESS (BBCCHHR) USED BY I/O SUPPORT
-8	(8-)	4	DEBDCBMK	DCB MODIFICATION MASK USED BY I/O SUPPORT
-4	(-4)	1	DEBLNGTH	LENGTH OF DEB IN DOUBLE WORDS
-3	(-3)	1	DEBAMTYP	ACCESS METHOD TYPE
-2	(-2)	2	DEBTBLOF	OFFSET IN THE DEB TABLE TO THE ENTRY FOR THIS DEB
		DEB	BASIC SECTION	NC
0	(0)	4	DEBTCBAD	ADDRESS OF TCB OWNING THIS DEB
0	(0)	1	DEBNMSUB	NO. OF SUBROUTINES LOADED BY OPEN EXECUTOR ROUTINES
1	(1)	3	DEBTCBB	SAME AS DEBTCBAD ABOVE
4	(4)	4	DEBDEBAD	ADDRESS OF THE NEXT DEB IN CHAIN OFF TCB
4	(4)	1	DEBAMLNG	NO. OF BYTES IN THE ACCESS METHOD DEPENDENT SECTION. FOR BDAM THIS FIELD CONTAINS THE LENGTH EXPRESSED IN NUMBER OF WORDS
5	(5)	3	DEBDEBB	SAME AS DEBDEBAD ABOVE
8	(8)	4	DEBIRBAD	IRB STORAGE ADDRESS USED FOR APPENDAGE EXITS
8	01 10 1111		DEBOFLGS DEBDISP DEBDESOLD DEBDSMOD DEBDSNEW DEBEOF DEBRLSE DEBDCB DEBSPLIT DEBLABEL DEBRERR	DATA SET STATUS FLAGS DATA SET DISPOSITION FLAGS OLD DATA SET MOD DATA SET MOD DATA SET NEW DATA SET DATA SET AT EOF (TAPE) OR LAST VOLUME (DASD) DISK: RELEASE UNUSED EXTERNAL STORAGE TAPE: EMULATOR TAPE WITH 2ND GENERATION FORMAT DCB MODIFICATION DISK: SPLIT CYLINDER TAPE: 7 TRACK EMULATOR TAPE WITH POSSIBLE MIXED PARITY RECORDS NONSTANDARD LABELS FÓR MAGNETIC TAPE- USE REDUCED ERROR RECOVERY
9	(9)	3	DEBIRBB	PROCEDURE Bram- CONCATENATION PRESENT SAME AS DEBIRBAD ABOVE
12	(C)	1	DEBOPATB	FLAGS INDICATING BOTH THE METHOD OF I/O PROCESSING AND THE DISPOSITION THAT IS TO BE
			DEBABEND DEBZERO	PERFORMED WHEN AN EOV CONDITION OCCURS SET BY ABEND INDICATING A SYSABEND OR SYSUDUMP DATA SET ALWAYS ZERO
	xx 01 11 0000 0001		DEBPOSIT DEBRERED DEBLEAVE DEBACCS DEBINPUT DEBRDBCK	DATA SET POSITIONING FLAGS REREAD LEAVE TYPE OF I/O ACCESSING BEING DONE INPUT READBACK INOUT

OFF	SET	LENGT	H NAME	DESCRIPTION
	0111		DEBUPDAT DEBOUTIN DEBOUTPT	UPDAT OUTIN OUTPUT
13	(D)	1	DEBQSCNT	PURGE (SVC 16) - QUIESCE COUNT. NO. OF DEVICES EXECUTING USER'S CHANNEL PROGRAMS, AS SHOWN BY BITS 5 AND 6 OF UCBFL1 FIELDS
14	ì	••••		FLAG FIELD PASSWORD WAS SUPPLIED DURING OPEN. EOV WILL NOT ASK FOR A PASSWORD FOR EACH ADDITIONAL VOLUME OF A MULTIVOLUME DATA SET.
	.1	••••	DEBEOFDF	SET BY EOV TO INFORM CLOSE THAT AN END-OF-FILE HAS BEEN ENCOUNTERED AND, THEREFORE, DEFERRED USER LABEL PROCESSING IS ALLOWED.
				RESERVED
		1	DEBRSV02 DEBCINDI	RESERVED DCB ASSOCIATED WITH THIS DEB IS BEING PROCESSED BY THE COMPATIBILITY INTERFACE
		.1	DEBF1CEV	ROUTINES SET TO ZERO BY CLOSE, SET TO ONE BY EOV, TESTED BY CLOSE TO DETERMINE IF EOV HAD BEEN ENTERED DURING CLOSE PROCESSING
		1.		RESERVED MYS APF BIT RESERVED
15	(F)	1	DEBRSV05	RESERVED
16	(10)	4	DEBUSRPG	ADDRESS OF FIRST IOB IN THE USER PURGE CHAIN
16	(10)	1	DEBNMEXT	NUMBER OF EXTENTS SPECIFIED IN DSCBS
17	(11)	3	DEBUSRPB	SEE DEBUSRPG ABOVE
20	(14)	4	DEBECBAD	ADDRESS OF A PARAMETER LIST USED TO LOCATE THE PURGE ECB FOR AN SVC PURGE REQUEST
20	(14)	1	DEBPRIOR	PRIORITY OF THE TASK OWNING DEB
21	(15)	3	DEBECBB	SAME AS DEBECBAD ABOVE
24	(18)	4	DEBDCBAD	ADDRESS OF DCB ASSOCIATED WITH THIS DEB
24	(18)	1	DEBPROTG	TASK PROTECT KEY IN HIGH ORDER 4 BITS
24	(18)	1	DEBDEBID	A HEX F IN LOW ORDER 4 BITS IDENTIFYING THIS BLOCK AS A DEB
25	(19)	3	DEBDCBB	SAME AS DEBDCBAD ABOVE
28	(1C)	4	DEBAPPAD	ADDRESS OF THE I/O APPENDAGE VECTOR TABLE
28	(1C)	1	DEBEXSCL	EXTENT SCALE- 4 FOR DIRECT ACCESS DEVICE AND 3525 UNIT RECORD DEVICE WITH DEVICE ASSOCIATED DATA SET SUPPORT AND 2 FOR NONDIRECT ACCESS DEVICE AND COMMUNICATION DEVICE. THIS FIELD IS USED TO DETERMINE THE SIZE OF THE DEVICE DEPENDENT SECTION
29	(1D)	3	DEBAPPB	SAME AS DEBAPPAD ABOVE
		SEC'	TION ***NOTE	GNETIC TAPE, TELECOMMUNICATIONS DEVICES - FOR TELECOMMUNICATIONS DEVICES, THE S ARE REPEATED FOR EACH LINE ASSIGNED
32	(20)	4	DEBSUCBA	ADDRESS OF A UCB ASSOCIATED WITH A GIVEN DATA SET
32	(20)	1	DEBSDVM	DEVICE MODIFIER MAGNETIC TAPE SET MODE OP CODE - UNIT RECORD NOT USED

OFF	SET	LENGT	H NAME	DESCRIPTION
33	(21)	3	DEBSUCBB	SAME AS DEBSUCBA
				IELDS ARE PRESENT ONLY FOR THE 3525 UNDER SET SUPPORT
36	(24)	4	DEBRDCB	ADDRESS OF DCB FOR THE READ ASSOCIATED DATA SET
36	(24)	1	DEBRSV06	RESERVED
37	(25)	3	DEBRDCBA	SAME AS DEBRDCB ABOVE
40	(28)	4	DEBPDCB	ADDRESS OF DCB FOR THE PUNCH ASSOCIATED DATA SET
40	(28)	1	DEBRSV07	RESERVED
41	(29)	3	DEBPDCBA	SAME AS DEBPDCB ABOVE
44	(2C)	4	DEBWDCB	ADDRESS OF DCB FOR THE PRINT ASSOCIATED DATA SET
44	(2C)	1	DEBRSV08	RESERVED
45	(2D)	3	DEBWDCBA	SAME AS DEBWDCB ABOVE
		DEB	ISAM DEPEND	ENT SECTION
32	(20)	4	DEBFIEAD	ADDRESS OF FIRST INDEX EXTENT
32	(20)	1	DEBNIEE	NUMBER OF EXTENTS OF INDEPENDENT INDEX AREA
33	(21)	3	DEBFIEB	SAME AS DEBFIEAD ABOVE
36	(24)	4	DEBFPEAD	ADDRESS OF THE FIRST PRIME DATA AREA
36	(24)	1	DEBNPEE	NUMBER OF EXTENTS OF PRIME DATA AREA
37	(25)	3	DEBFPEB	SAME AS DEBFPEAD ABOVE
40	(28)	4	DEBFOEAD	ADDRESS OF THE FIRST OVERFLOW EXTENT
40	(28)	1	DEBNOEE	NUMBER OF EXTENTS OF INDEPENDENT OVERFLOW AREA
41	(29)	3	DEBFOEB	SAME AS DEBFOEAD ABOVE
44	(2C)	4	DEBEXPT	ADDRESS OF ISAM DEB EXTENSION
44	.1.	1	DEBRPSAP DEBRSV09 DEBRSV10 DEBRSV11	RPS DEVICE INDICATORS PRIME DATA AREA IS ON RPS DEVICE INDEPENDENT INDEX AREA IS ON RPS DEVICE INDEPENDENT OVERFLOW AREA IS ON RPS DEVICE RPS SIO APPENDAGE HAS BEEN LOADED RESERVED RESERVED RESERVED RESERVED
45	(2D)	3	DEBEXPTA	SAME AS DEBEXPT ABOVE
		THI:	S SECTION IS	TORAGE DEVICE SECTION NOTE - THE LOCATION OF DEPENDENT UPON THE ACCESS METHOD USEDIF OLLOWS THE ISAM SECTION-IF NOT ISAM THEN IT IC SECTION
+0	(0)	4	DEBUCBAD	ADDR OF UCB ASSOCIATED WITH THIS DATA
+0	(0)	1	DEBDVMOD	DEVICE MODIFIER: FILE MASK
+1	(1)	3	DEBUCBA	SAME AS DEBUCBAD ABOVE
+4	(4)	2	DEBBINUM	BIN NUMBER

OFFSET		LENGT	H NAME	DESCRIPTION		
+6	(6)	2	DEBSTRCC	CYLINDER ADDRESS FOR THE START OF AN EXTENT LIMIT		
+8	(8)	2	DEBSTRHH	READ/WRITE TRACK ADDRESS FOR THE START OF AN EXTENT LIMIT		
+10	(A)	2	DEBENDCC	CYLINDER ADDRESS FOR THE END OF AN EXTENT LIMIT		
+12	(C)	2	DEBENDHH	READ / WRITE TRACK ADDRESS FOR THE END OF AN EXTENT LIMIT		
+14	(E)	2	DEBNMTRK	NUMBER OF TRACKS ALLOCATED TO A GIVEN EXTENT		
		EXC	P ACCESS MET	HOD, BSAM AND QSAM DEPENDENT SECTION		
+0	(0)	2	DEBVOLSQ	VOLUME SEQUENCE NUMBER FOR MULTIVOLUME SEQUENTIAL DATA SETS		
+2	(2)	2	DEBVOLNM	TOTAL NUMBER OF VOLUMES IN A MULTIVOLUME SEQUENTIAL DATA SET.		
+4	(4)	8	D£BDSNM	MEMBER NAME APPEARS ONLY WHEN AN OUTPUT DATA SET HAS BEEN OPENED FOR A MEMBER NAME AND THE DSCB SPECIFIES A PARTITIONED DATA SET.		
+4	(4)	4	DEBUTSAA	ADDRESS OF THE USER TOTALLING SAVE AREA		
+4	(4)	1	DEBRSV13	RESERVED		
+5	(5)	3	DEBUTSAB	SAME AS DEBUTSAA		
+8	(8)	4	DEBRSV14	RESERVED		
		BPA	M DEPENDENT	SECTION		
+0	(0)	1	DEBEXTNM	FOR A PARTITIONED DATA SET OPENED FOR INPUT, EACH ONE BYTE FIELD CONTAINS THE EXTENT NUMBER OF THE FIRST EXTENT ENTRY FOR EACH DATA SET EXCEPT THE FIRST, IF TWO OR MORE DATA SETS ARE CONCATENATED. THE NUMBER OF BYTES IN THE FIELD IS EQUAL TO ONE LESS THAN THE NUMBER OF DATA SETS CONCATENATED.		
+0	(0)	8	DEBDSNAM	FOR A PARTITIONED DATA SET OPENED FOR OUTPUT TO A MEMBER NAME, THAT MEMBER NAME.		
		RECO		ECTION - FOR FIXED LENGTH OPTION OF RELATIVE BLOCK ADDRESSING VERFLOW).		
+0	(0)	4	DEBDBLK	ONE FOUR BYTE FIELD FOR EACH EXTENT DESCRIBED IN THE DEVICE DEPENDENT SECTION.		
+0	(0)	1	DEBDBPT	NUMBER OF BLOCKS PER TRACK		
+1	(1)	3	DEBDBPE	NUMBER OF BLOCKS PER EXTENT		
	BDAM DEPENDENT SECTION - FOR FIXED LENGTH RECORDS WITH THE OPTION OF RELATIVE BLOCK ADDRESSING AND TRACK OVERFLOW.					
+0	(0)	4	DEBDTPP	NUMBER OF TRACKS PER PERIOD		
+4	(4)	4	DEBDBPP	NUMBER OF BLOCKS PER PERIOD THE FOLLOWING FIELD OCCURS ONCE FOR EACH EXTENT.		

OFFSET		LENGT	H NAME	DESCRIPTION			
+8	(8)	4	DEBDBPEF	NUMBER OF BLOCKS PER EXTENT			
		D	, publicana	anaman,			
			M DEPENDENT				
		BUF	THIS SEGMENT IS ALWAYS PRESENT WITH BTAM - IT IS USED WHEN A BUFFER POOL OR DYNAMIC BUFFERING IS USED; ELSE THE FIELDS ARE ZERO.				
+0	(0)	4	DEBTBFRA	ADDRESS OF THE BUFFER ROUTINE			
+0	(0)	1	DEBRSV15	RESERVED			
+1	(1)	3	DEBTBFRB	SAME AS DEBTBFRA, ABOVE			
			HE FOLLOWING ROGRAM QUEUE	FIELD IS REPEATED FOR EACH CCW ON THE CHANNEL			
+4	(4)	4	DEBTCCWA	ADDRESS OF THE FIRST CCW ON THE QUEUE			
+4	(4)	1	DEBRSV16	RESERVED			
+5	(5)	3	DEBTCCWB	SAME AS DEBCCWA, ABOVE			
		GAM	DEPENDENT S	ECTION			
+0	(0)	4	DEBFUCBA	POINTER TO FIRST UCB			
+0	(0)	1	DEBRSV17	RESERVED			
+1	(1)	3	DEBFUCBB	ADDRESS OF FIRST UCB			
+4	(4)	4	DEBLUCBA	POINTER TO LAST UCB			
+4	(4)	1	DEBRSV18	RESERVED			
+5	(5)	3	DEBLUCBB	ADDRESS OF LAST UCB			
		ISA	M LOAD MODE	EXTENSION POINTED TO BY DEBEXPT			
+0	(0)	4	DEBPUT	ADDRESS OF PUT MODULE			
		ISA	M SCAN MODE	EXTENSION POINTED TO BY DEBEXPT			
+0	(0)	4	DEBGET	ADDRESS OF GET OR PUT MODULE - THIS FIELD IS ALSO CALLED DEBPUT			
+4	(4)	4	DEBWKPT4	SAME AS DCBWKPT4			
+8	(8)	4	DEBWKPT5	SAME AS DCBWKPT5			
+12	(C)	4	DEBCREAD	ADDRESS OF CHANNEL-END APPENDAGE FOR READ			
+16	(10)	4	DEBCSETL	ADDRESS OF CHANNEL-END APPENDAGE FOR SETL			
+20	(14)	4	DEBCWRIT	ADDRESS OF CHANNEL-END APPENDAGE FOR WRITE			
+24	(18)	4	DEBCCHK	ADDRESS OF CHANNEL-END APPENDAGE FOR WRITE VALIDITY CHECK			
+28	(1C)	4	DEBCREWT	ADDRESS OF CHANNEL-END APPENDAGE FOR RE-WRITE			
+32	(20)	4	DEBCRECK	ADDRESS OF CHANNEL-END APPENDAGE FOR RE-CHECK			
+36	(24)	4	DEBAREAD	ADDRESS OF ABNORMAL-END APPENDAGE FOR READ			
+40	(28)	4	DEBASETL	ADDRESS OF ABNORMAL-END APPENDAGE FOR SETL			
+44	(2C)	4	DEBAWRIT	ADDRESS OF ABNORMAL-END APPENDAGE FOR WRITE			
+48	(30)	4	DEBACHK	ADDRESS OF ABNORMAL-END APPENDAGE FOR CHECK			
+52	(34)	4	DEBAREWT	ADDRESS OF ABNORMAL-END APPENDAGE FOR RE-WRITE			

OF	FSET	LENGT	H NAME	DESCRIPTION			
+56	(38)	4	DEBARECK	ADDRESS OF ABNORMAL-END APPENDAGE FOR RE-CHECK			
+60	(3C)	4	DEBRPSST	ADDRESS OF RPS SIO MODULE			
BISAM MODE EXTENSION POINTED TO BY DEBEXPT							
+0	(0)	4	DEBDISAD	ADDRESS OF PRIVILEGED MODULE ENTERED WHEN A BISAM MACRO INSTRUCTION IS EXECUTED			
+4	(4)	4		DEBWKPT4 - SAME AS DCBWKPT4			
+8	(8)	4		DEBWKPT5 - SAME AS DCBWKPT5			
+12	(C)	4	DEBFREED	ADDRESS OF DYNAMIC BUFFERING MODULE			
+16	(10)	4	DEBRPSIO	ADDRESS OF A DEVICE DEPENDENT SECONDARY SIO APPENDAGE			
+20	(14)	4	DEBSIOA2	ADDRESS OF SIO APPENDAGE DISPLACED BY PGFX APPENDAGE			
		SUB	ROUTINE NAME	SECTION			
				ESS METHOD DEPENDENT SECTION, OR THE DEVICE ON IF THERE IS NO ACCESS METHOD SECTION.			
+0	(0)	2	DEBSUBID	THE LAST TWO BYTES OF THE 8-BYTE MODULE NAME FOR EACH ACCESS METHOD SUBROUTINE, APPENDAGE SUBROUTINE, OR IRB ROUTINE LOADED BY OPEN.			

He 4 DEBFIED #32 (20) DEBRSV09 #44 X'08'	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DEBRCCS		+8 (8)		+33 (21)		
DEBACKK						
DEBRMING					DEBRSV12	
DEBAMTYP						
DEBRPADD +28 (1C)						
DEBRPPB						
DEBRREAD						, ,
DEBRECK						
DEBRAENT						, ,
DEBRSETL						
DEBAVT						
DEBANRIT						
DEBBINUM						
DEBCCHK						
DEBCEA	DEBCCHK		DEBLNGTH		DEBRSV25	8 X'40'
DEBCEAD	DEBCEA	12 (C)	DEBLUCBA		DEBRSV26	
DEBCENP	DEBCEAB		DEBLUCBB	+5 (5)	DEBRSV27	
DEBCINDI			DEBNIEE			
DEBCREAD						
DEBCRECK						
DEBCREWT						
DEBCSETL						
DEBCWRIT						
DEBDBLK						
DEBDBPE						
DEBDBPP +4 (4) DEBPCINP 8 X'OF' DEBSIOAD 5 (5) DEBDBPT +0 (0) DEBPDCB +40 (28) DEBSIOA2 +20 (14) DEBDCB +8 X'O8' DEBPDCBA +41 (29) DEBSIONP 4 X'OF' DEBDCBAD +24 (18) DEBPGRX 4 X'80' DEBSIOX 4 X'40' DEBDCBB +25 (19) DEBPOSIT +12 X'30' DEBSIOX 4 X'40' DEBDCBMK 28 (1C) DEBPREFX 20 (14) DEBSTRCC +6 (6) DEBDEBAD +4 (4) DEBPRIOR +20 (14) DEBSTRHH +8 (8) DEBDEBBAD +5 (5) DEBPROTG +24 (18) DEBSUBID +0 (0) DEBDEBID +24 (18) DEBPUT +0 (0) DEBSUCBA +32 (20) DEBDISAD +0 (0) DEBPWCKD +14 X'80' DEBSUCBB +33 (21) DEBDISAD +0 (0) DEBPWCKD +14 X'80' DEBSUCBB +33 (21) DEBDISAD +8 X'CO' DEBQSCNT +13 (D) DEBTBFRA +0 (0) DEBDSCBA 21 (15) DEBRDCB +36 (24) DEBTBFRA +0 (0) DEBDSNAM +0 (0) DEBRDCB +36 (24) DEBTBFRB +1 (1) DEBDSNAM +4 (4) DEBRER +8 X'01' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRSES +44 X'40' DEBTCWB +5 (5) DEBECBB +21 (15) DEBRPSI +44 X'40' DEBTCWB +5 (5) DEBECBB +21 (15) DEBRPSI +44 X'40' DEBTCWB +5 (5) DEBECBB +21 (15) DEBRPSI +44 X'40' DEBTCWB +5 (5) DEBECBB +21 (15) DEBRPSI +44 X'40' DEBUSAD +0 (0) DEBNDCC +10 (A) DEBRPSI +44 X'40' DEBUSAD +0 (0) DEBNDCC +10 (A) DEBRPSI +44 X'80' DEBUSRP +17 (11) DEBCOEA 0 (0) DEBRPSS +44 X'80' DEBUSRP +17 (11) DEBCOEA 0 (0) DEBRPSS +44 X'80' DEBUSRP +17 (11) DEBCOEA 0 (0) DEBRPSO +44 X'80' DEBUSRP +17 (11) DEBCOEA 0 (0) DEBRPSO +44 X'80' DEBUSRP +17 (11) DEBCOEA 1 (1) DEBRSV0 +14 X'20' DEBUSRP +5 (5) DEBECGA 1 (1) DEBRSV0 +14 X'20' DEBUSRP +5 (5) DEBECOENP 0 X'0F' DEBRSV0 +14 X'01' DEBVOLNM +2 (2) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBVOLNM +2 (2) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBVOLNM +2 (2) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBWCBA +44 (2C) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBWCBA +44 (2C) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBWCBA +44 (2C) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBWCBA +44 (2C) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBWCBA +44 (2C) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBWCBA +44 (2C) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBWCBA +44 (2C) DEBCOEAD 1 (1) DEBRSV0 +14 X'01' DEBWCBA +44 (2C)	DEBDBPE		DEBPCIAB			
DEBDEPT	DEBDBPEF	+8 (8)	DEBPCIAD	9 (9)	DEBSIOAB	4 (4)
DEBDCB	DEBDBPP		DEBPCINP		DEBSIOAD	5 (5)
DEBDCBAD						• •
DEBDCBB +25 (19) DEBPOSIT +12 X'30' DEBSPLIT +8 X'04' DEBCEMK 28 (1C) DEBPREFX 20 (14) DEBSTRCC +6 (6) DEBDEBAD +4 (4) DEBPRIOR +20 (14) DEBSTRCC +6 (6) DEBDEBBB +5 (5) DEBPROTG +24 (18) DEBSUBID +0 (0) DEBDEBID +24 (18) DEBPROTG +24 (18) DEBSUBBD +0 (0) DEBDEBID +0 (0) DEBDEBID +24 (18) DEBPUT +0 (0) DEBSUCBA +32 (20) DEBDISAD +0 (0) DEBPWCKD +14 X'80' DEBSUCBB +33 (21) DEBDISP +8 X'CO' DEBQSCNT +13 (D) DEBTBFRA +0 (0) DEBDSCBA 21 (15) DEBRDCB +36 (24) DEBTBFRB +1 (1) DEBDSNAM +0 (0) DEBRDCBA +37 (25) DEBTBLOF 34 (22) DEBDSNAM +4 (4) DEBRERR +8 X'01' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBAD +0 (0) DEBDVMOD +0 (0) DEBRPSAP +44 X'10' DEBTCWA +4 (4) DEBCBAD +20 (14) DEBRPSI +44 X'40' DEBTCWA +4 (4) DEBCBAD +20 (14) DEBRPSI +44 X'40' DEBTCWA +4 (4) DEBECBB +21 (15) DEBRPSID +44 (2C) DEBUCBA +11 (1) DEBCDA O (0) DEBRPSID +44 X'20' DEBUCBA +1 (1) DEBCDA O (0) DEBRPSID +44 X'20' DEBUSRPB +17 (11) DEBCOBA O (0) DEBRPSST +60 (3C) DEBUSRAP +16 (10) DEBUSRPG +16 (10) DEBCDA O (0) DEBRPSST +60 (3C) DEBUTSAA +4 (4) DEBCDEDA D 1 (1) DEBRSVO1 +14 X'20' DEBUTSAB +5 (5) DEBCOBAD +8 X'20' DEBRSVO2 +14 X'10' DEBVOLSQ +0 (0) DEBCOPT +8 X'20' DEBRSVO3 +14 X'02' DEBUSRAB +5 (5) DEBCOPT +44 X'40' DEBRSVO4 +14 X'10' DEBWDCB +44 (2C) DEBUSRAP +44 X'40' DEBVOLSQ +0 (0) DEBCOPT +44 X'40' DEBRSVO4 +14 X'10' DEBWDCB +44 (2C) DEBRSYO7 +44 X'20' DEBWKARA 20 (14) DEBRSYO1 +14 X'10' DEBWDCB +44 (2C) DEBRSYO1 +15 (F) DEBWDCB +44 (2C) DEBRSYO1 +44 (2C) DEBRSYO1 +44 (2C) DEBWSWARA 20 (14) DEBRSYO1 +4						
DEBDCBMK 28 (1C) DEBPREFX 20 (14) DEBSTRCC +6 (6) DEBDEBAD +4 (4) DEBPRIOR +20 (14) DEBSTRHH +8 (8) DEBDEBB +5 (5) DEBPROTG +24 (18) DEBSUBID +0 (0) DEBDEBID +24 (18) DEBPUT +0 (0) DEBSUCBA +32 (20) DEBDISAD +0 (0) DEBPWCKD +14 X'80' DEBSUCBB +33 (21) DEBDISP +8 X'CO' DEBGSCNT +13 (D) DEBTBFRA +0 (0) DEBDSCBA 21 (15) DEBRDCB +36 (24) DEBTBFRB +1 (1) DEBDSNM +0 (0) DEBRDCBA +37 (25) DEBTBLOF 34 (22) DEBDSNM +4 (4) DEBRCBR +8 X'10' DEBTCBA +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBA +1 (1) DEBCBAD +20 (14) DEBRPSI +44 X'40' DEBTCCWA +4 (4) DEBCBCBA +21 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1)						
DEBDEBAD						
DEBDEBB +5 (5) DEBPROTG +24 (18) DEBSUBID +0 (0) DEBDEBID +24 (18) DEBPUT +0 (0) DEBSUCBA +32 (20) DEBDISAD +0 (0) DEBPWCKD +14 X'80' DEBSUCBB +33 (21) DEBDISP +8 X'CO' DEBQSCNT +13 (D) DEBTBFRA +0 (0) DEBDSCBA 21 (15) DEBRDCB +36 (24) DEBTBFRB +1 (1) DEBDSNAM +0 (0) DEBRDCBA +37 (25) DEBTBLOF 34 (22) DEBDSNM +4 (4) DEBRERR +8 X'01' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBB +1 (1) DEBCBAD +20 (14) DEBRPSI +44 X'40' DEBTCCWA +4 (4) DEBECBAD +20 (14) DEBRPSI +44 X'40' DEBUCBA +1 (1) DEBCBDEBCB +11 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1) DEBENDCC +10 (A) DEBRPSID +16 (10) DEBUCBAD +0 (0) DEBROBAD +12 (C) DEBRPSO +44 X'20' DEBUSRPB +17 (11) DEBCOBA 0 (0) DEBRPSP +44 X'80' DEBUSRPG +16 (10) DEBEOBAD 1 (1) DEBRSVO1 +14 X'20' DEBUSRPG +16 (10) DEBEOBAD 1 (1) DEBRSVO1 +14 X'20' DEBUTSAB +5 (5) DEBEOBAD +8 X'20' DEBRSVO1 +14 X'10' DEBVOLNM +2 (2) DEBEOFDF +8 X'20' DEBRSVO3 +14 X'10' DEBWDCB +44 (2C) DEBECPT +44 (2C) DEBRSVO5 +15 (F) DEBWDCB +44 (2C) DEBEXPT +44 (2C) DEBRSVO5 +15 (F) DEBWDCB +44 (2C) DEBEXPTA +45 (2D) DEBRSVO6 +36 (24) DEBWKPT4 +4 (4)		, ,				
DEBDEBID +24 (18) DEBPUT +0 (0) DEBSUCBA +32 (20) DEBDISAD +0 (0) DEBPWCKD +14 X'80' DEBSUCBB +33 (21) DEBDISP +8 X'CO' DEBQSCNT +13 (D) DEBTBFRA +0 (0) DEBDSCBA 21 (15) DEBRDCB +36 (24) DEBTBFRB +1 (1) DEBDSNAM +0 (0) DEBRDCBA +37 (25) DEBTBLOF 34 (22) DEBDSNM +4 (4) DEBRERR +8 X'10' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBB +1 (1) DEBDVMOD +0 (0) DEBRPSAP +44 X'40' DEBTCCWA +4 (4) DEBECBAD +20 (14) DEBRPSI +44 X'40' DEBTCCWB +5 (5) DEBECBB +21 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1) DEBENDCC +10 (A) DEBRPSIO +44 X'20' DEBUSRPB +7 (11) DEBEOEAB 0 (0) DEBRPSST +60 (3C) DEBUTSAB +5 (5) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
DEBDISP +8 X'CO' DEBQSCNT +13 (D) DEBTBFRA +0 (0) DEBDSCBA 21 (15) DEBRDCB +36 (24) DEBTBFRB +1 (1) DEBDSNAM +0 (0) DEBRDCBA +37 (25) DEBTBLOF 34 (22) DEBDSNM +4 (4) DEBRERR +8 X'01' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBB +1 (1) DEBDVMOD +0 (0) DEBRPSAP +44 X'10' DEBTCCWA +4 (4) DEBCBAD +20 (14) DEBRPSI +44 X'40' DEBTCCWB +5 (5) DEBECBB +21 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1) DEBENDCC +10 (A) DEBRPSID +16 (10) DEBUSABA +1 (1) DEBEOEA 0 (0) DEBRPSO +44 X'20' DEBUSAPB +17 (11) DEBEOEA 0 (0) DEBRPSP +44 X'80' DEBUTSAA +4 (4) DEBEOEAB 0 (0) DEBRSV01 +14 X'20' DEBUTSAB +5 (5) <	DEBDEBID	+24 (18)	DEBPUT		DEBSUCBA	
DEBDSCBA 21 (15) DEBRDCB +36 (24) DEBTBFRB +1 (1) DEBDSNAM +0 (0) DEBRDCBA +37 (25) DEBTBLOF 34 (22) DEBDSNM +4 (4) DEBRERR +8 X'01' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBB +1 (1) DEBDVMOD +0 (0) DEBRPSAP +44 X'40' DEBTCCWA +4 (4) DEBECBAD +20 (14) DEBRPSI +44 X'40' DEBTCCWB +5 (5) DEBECBB +21 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1) DEBENDCC +10 (A) DEBRPSIO +16 (10) DEBUCBAD +0 (0) DEBENDHH +12 (C) DEBRPSO +44 X'20' DEBUSRPB +17 (11) DEBEOEA 0 (0) DEBRPST +60 (3C) DEBUTSAA +4 (4) DEBEOEAD 1 (1) DEBRSV01 +14 X'20' DEBVOLNM +2 (2) DEBEOENP 0 X'0F' DEBRSV02 +14 X'10' DEBVOLNM +2 (2)			DEBPWCKD	+14 X'80'	DEBSUCBB	+33 (21)
DEBDSNAM +0 (0) DEBRDCBA +37 (25) DEBTBLOF 34 (22) DEBDSNM +4 (4) DEBRERR +8 X'01' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBB +1 (1) DEBDVMOD +0 (0) DEBRPSAP +44 X'10' DEBTCCWA +4 (4) DEBECBAD +20 (14) DEBRPSI +44 X'40' DEBTCCWB +5 (5) DEBECBB +21 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1) DEBENDCC +10 (A) DEBRPSID +16 (10) DEBUCBAD +0 (0) DEBENDHH +12 (C) DEBRPSO +44 X'20' DEBUSRPB +17 (11) DEBEOEA 0 (0) DEBRPSP +44 X'80' DEBUSRPG +16 (10) DEBEOEAB 0 (0) DEBRSST +60 (3C) DEBUTSAA +4 (4) DEBEOEAD 1 (1) DEBRSV01 +14 X'20' DEBUTSAB +5 (5) DEBEOENP 0 X'0F' DEBRSV02 +14 X'10' DEBVOLNM +2 (2)			DEBQSCNT		DEBTBFRA	
DEBDSNM +4 (4) DEBRERR +8 X'01' DEBTCBAD +0 (0) DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBB +1 (1) DEBDVMOD +0 (0) DEBRPSAP +44 X'10' DEBTCCWA +4 (4) DEBECBAD +20 (14) DEBRPSI +44 X'40' DEBTCCWB +5 (5) DEBECBB +21 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1) DEBENDCC +10 (A) DEBRPSID +16 (10) DEBUCBAD +0 (0) DEBENDHH +12 (C) DEBRPSO +44 X'20' DEBUSRPB +17 (11) DEBEOEA 0 (0) DEBRPSP +44 X'80' DEBUSRPG +16 (10) DEBEOEAB 0 (0) DEBRSST +60 (3C) DEBUTSAA +4 (4) DEBEOEAD 1 (1) DEBRSV01 +14 X'20' DEBUTSAB +5 (5) DEBEOENP 0 X'0F' DEBRSV02 +14 X'10' DEBVOLNM +2 (2) DEBEOFDF +8 X'20' DEBRSV03 +14 X'02' DEBWDCB +44 (2C) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
DEBDTPP +0 (0) DEBRLSE +8 X'10' DEBTCBB +1 (1) DEBDVMOD +0 (0) DEBRPSAP +44 X'10' DEBTCCWA +4 (4) DEBECBAD +20 (14) DEBRPSI +44 X'40' DEBTCCWB +5 (5) DEBECBB +21 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1) DEBENDCC +10 (A) DEBRPSID +16 (10) DEBUCBAD +0 (0) DEBENDHH +12 (C) DEBRPSO +44 X'20' DEBUSRPB +17 (11) DEBEOEA 0 (0) DEBRPSP +44 X'80' DEBUSRPG +16 (10) DEBEOEAB 0 (0) DEBRPST +60 (3C) DEBUTSAA +4 (4) DEBEOEAD 1 (1) DEBRSVO1 +14 X'20' DEBUTSAB +5 (5) DEBEOENP 0 X'0F' DEBRSVO2 +14 X'10' DEBVOLNM +2 (2) DEBEOF +8 X'20' DEBRSVO3 +14 X'02' DEBVOLSQ +0 (0) DEBEOFDF +14 X'40' DEBRSVO4 +14 X'01' DEBWDCB +44 (2C) DEBEXPT +44 (2C) DEBRSVO5 +15 (F) DEBWDCBA +45 (2D) DEBEXPTA +45 (2D) DEBRSVO6 +36 (24) DEBWKPT4 +4 (4)						
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DEBECBB +21 (15) DEBRPSID +44 (2C) DEBUCBA +1 (1) DEBENDCC +10 (A) DEBRPSIO +16 (10) DEBUCBAD +0 (0) DEBENDHH +12 (C) DEBRPSO +44 X'20' DEBUSRPB +17 (11) DEBEOEA 0 (0) DEBRPSP +44 X'80' DEBUSRPG +16 (10) DEBEOEAB 0 (0) DEBRPSST +60 (3C) DEBUTSAA +4 (4) DEBEOEAD 1 (1) DEBRSV01 +14 X'20' DEBUTSAB +5 (5) DEBEOENP 0 X'0F' DEBRSV02 +14 X'10' DEBVOLNM +2 (2) DEBEOF +8 X'20' DEBRSV03 +14 X'02' DEBVOLSQ +0 (0) DEBEOFDF +14 X'40' DEBRSV04 +14 X'01' DEBWDCB +44 (2C) DEBEXPT +44 (2C) DEBRSV05 +15 (F) DEBWDCBA +45 (2D) DEBEXPTA +45 (2D) DEBRSV06 +36 (24) DEBWKPT4 +4 (4) DEBEXPTA +28 (1C) DEBRSV07 +40 (28) DEBWKPT4 <						· · ·
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DEBEOEAD 1 (1) DEBRSV01 +14 X'20' DEBUTSAB +5 (5) DEBEOENP 0 X'0F' DEBRSV02 +14 X'10' DEBVOLNM +2 (2) DEBEOF +8 X'20' DEBRSV03 +14 X'02' DEBVOLSQ +0 (0) DEBEOFDF +14 X'40' DEBRSV04 +14 X'01' DEBWDCB +44 (2C) DEBEXPT +44 (2C) DEBRSV05 +15 (F) DEBWDCBA +45 (2D) DEBEXPTA +45 (2D) DEBRSV06 +36 (24) DEBWKARA 20 (14) DEBEXSCL +28 (1C) DEBRSV07 +40 (28) DEBWKPT4 +4 (4)					DEBUSRPG	
DEBEOENP 0 X'0F' DEBRSV02 +14 X'10' DEBVOLNM +2 (2) DEBEOF +8 X'20' DEBRSV03 +14 X'02' DEBVOLSQ +0 (0) DEBEOFDF +14 X'40' DEBRSV04 +14 X'01' DEBWDCB +44 (2C) DEBEXPT +44 (2C) DEBRSV05 +15 (F) DEBWDCBA +45 (2D) DEBEXPTA +45 (2D) DEBRSV06 +36 (24) DEBWKARA 20 (14) DEBEXSCL +28 (1C) DEBRSV07 +40 (28) DEBWKPT4 +4 (4)						, ,
DEBEOF +8 X'20' DEBRSV03 +14 X'02' DEBVOLSQ +0 (0) DEBEOFDF +14 X'40' DEBRSV04 +14 X'01' DEBWDCB +44 (2C) DEBEXPT +44 (2C) DEBRSV05 +15 (F) DEBWDCBA +45 (2D) DEBEXPTA +45 (2D) DEBRSV06 +36 (24) DEBWKARA 20 (14) DEBEXSCL +28 (1C) DEBRSV07 +40 (28) DEBWKPT4 +4 (4)						
DEBEOFDF +14 X'40' DEBRSV04 +14 X'01' DEBWDCB +44 (2C) DEBEXPT +44 (2C) DEBRSV05 +15 (F) DEBWDCBA +45 (2D) DEBEXPTA +45 (2D) DEBRSV06 +36 (24) DEBWKARA 20 (14) DEBEXSCL +28 (1C) DEBRSV07 +40 (28) DEBWKPT4 +4 (4)						
DEBEXPT +44 (2C) DEBRSV05 +15 (F) DEBWDCBA +45 (2D) DEBEXPTA +45 (2D) DEBRSV06 +36 (24) DEBWKARA 20 (14) DEBEXSCL +28 (1C) DEBRSV07 +40 (28) DEBWKPT4 +4 (4)						
DEBEXPTA +45 (2D) DEBRSV06 +36 (24) DEBWKARA 20 (14) DEBEXSCL +28 (1C) DEBRSV07 +40 (28) DEBWKPT4 +4 (4)						, ,
DEBEXSCL +28 (1C) DEBRSV07 +40 (28) DEBWKPT4 +4 (4)	DEBEXPTA	+45 (2D)				
DEBEXTNM +0 (0) DEBRSV08 +44 (2C) DEBWKPT5 +8 (8)				, ,		
	DEBEXTNM	+0 (0)	DEBRSV08	+44 (2C)	DEBWKPT5	+8 (8)

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DEBXCEAB DEBXCEAD DEBXCENP DEBZERO	16 (10) 16 (10) 17 (11) 16 X'OF' +12 X'40'				
		El	ND OF DEB		

Data Extent Block -- TCAM

The data extent block (DEB) for TCAM is a fixed length block with a 36-byte prefix. The DEB describes the extents of the data set associated with it. The DEB contains the addresses of the DCB, UCB, and TCB. It also contains the number of extents associated with the data set.

The address of the DEBTCBAD field is in the DCBDEBAD field of the DCB. The address of the beginning of the DEB is DCBDEBAD - 36 (- 24).

Storage is allocated and fixed for the DEB and it is initialized when the data set is opened.

OF	FSET	LENGT	<u>H</u> <u>NAME</u>	DESCRIPTION
0	(0)	4	DEBEOEA	ADDRESS OF END-OF-EXTENT APPENDAGE
4	(4)	4	DEBSIOA	ADDRESS OF START I/O APPENDAGE
8	(8)	4	DEBPCIA	ADDRESS OF PCI APPENDAGE
12	(C)	4	DEBCEA	ADDRESS OF CHANNEL END APPENDAGE
16	(10)	4	DEBXCEA	ADDRESS OF ABNORMAL END APPENDAGE
			DEB PREF	IX
-16	(-10)	4	DEBWKARA	I/O SUPPORT WORK AREA
-15	(-F)	7	DEBDSCBA '	ADDRESS OF DSCB
-8	(8-)	4	DEBDCBMK	DCB MODIFICATION MASK
-4	(-4)	4	DEBLNGTH	LENGTH OF THE DEB IN DOUBLE WORDS
			DEB PROP	ER
0	(0)	1	DEBNMSUB	NUMBER OF OPEN SUBROUTINES
0	(0)	4	DEBTCBAD	ADDRESS OF THE TCB
4	(4)	1	DEBAMLNG	LENGTH ACCESS METHOD SECTION
4	(4)	4	DEBDEBAD	ADDRESS OF NEXT DEB
8	(8)	1	DEBOFLGS	DATA SET FLAGS
8	(8)	4	DEBIRBAD	ADDRESS OF THE IRB
12	(C)	1	DEBOPATB	TYPE OF I/O
12	(C)	4	DEBSYSPG	ADDRESS OF FIRST IOB IN SYSTEM PURGE CHAIN
16	(10)	1	DEBNMEXT	NUMBER OF EXTENTS
16	(10)	4	DEBUSRPG	ADDRESS OF FIRST IOB IN THE USER PURGE CHAIN
20	(14)	1	DEBPRIOR	ZERO
20	(14)	4	DEBECBAD	ADDRESS OF PARAMETER LIST TO FIND PURGE ECB
24	(18)	1	DEBPROTG	PROTECTION KEY AND DEB ID
24	(18)	4	DEBDCBAD	ADDRESS OF DCB
28	(1C)	1	DEBEXSCL	EXTENT SCALE
28	(1C)	4	DEBAPPAD	ADDRESS OF I/O APPENDAGE VECTOR TABLE
32	(20)	1	DEBDVMOD	DEVICE MODIFIER
32	(20)	4	DEBUCBAD	ADDRESS OF UCB

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DEBAMLNG DEBAPPAD DEBCEA DEBDCBAM DEBDCBMK DEBDESCBA DEBDSCBA DEBDSCBAD DEBECBAD DEBECBAD DEBERBAD DEBLNGTH DEBNMEXT DEBNMSUB DEBOFLGS DEBOPATB DEBPCIA DEBPRIOR DEBPROTG DEBSYSPG DEBTCBAD DEBUSRPG DEBUSRPG DEBUSRPG DEBUSRPG	4 (4) 28 (1C) 12 (C) 24 (18) -8 (-8) 4 (4) -15 (-F) 32 (20) 20 (14) 28 (1C) 8 (8) -16 (-10) 16 (10) 0 (0) 8 (8) 12 (C) 8 (8) 20 (14) 24 (18) 4 (4) 12 (C) 0 (0) 32 (20) 16 (10) -16 (-10)		EQU VALUE		EQU VALUE
DEBXCEA	16 (10)	END O	F DEB - TCAM		

Data Event Control Blocks

Data event control blocks (DECBs) contain information about an input or output operation requested by a READ or WRITE macro instruction.

OFI	FSET I	LENGT	H NAME	DESCRIPTION
		DAT	A EVENT CONT	ROL BLOCK FOR BSAM
0	(0)	4	DECSDECB	EVENT CONTROL BLOCK
4	(4)	4	DECBPTR	FOR IBM 1419 MAGNETIC CHARACTER READER AND IBM 1275 OPTICAL READER SORTER, A POINTER TO NEXT DECB TO BE TESTED FOR COMPLETION BY THE CHECK MACRO INSTRUCTION
4	(4)	2	DECTYPE	TYPE OF I/O REQUEST
4	.1	1 1 1 1	DECTYPE1 DECLNS DECRSV01 DECRSV02 DECRSV03 DECRSV04 DECRSV05 DECRSV06 DECRSV07	TYPE OF LENGTH OPERAND S CODED FOR LENGTH RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
5	1 .1 1. 1	1 1 .1	DECTYPE2 DECRDSF DECRDSB DECWRSF DECWRSD DECRSV08 DECWRSZ DECRSV09 DECWRSFR	TYPE OF OPERATION READ SF READ SB WRITE SF WRITE SD RESERVED WRITE SZ RESERVED WRITE SFR (BIT 2 IS ALSO ON)
6	(6)	2	DECLNGTH	LENGTH OF KEY AND DATA
8	(8)	4	DECDCBAD	ADDRESS OF DCB TO WHICH THIS I/O REQUEST IS RELATED
12	(C)	4	DECAREA	ADDRESS OF KEY AND DATA, OR FOR 1287 OR 1288 OPTICAL READERS, ADDRESS OF A USER-SPECIFIED CHANNEL PROGRAM
16	(10)	4	DECIOBPT	ADDRESS OF IOB
2 0	(14)	4	DECNEXT	SAME AS DECNEXTA BELOW
20	(14)	1	DECRSV10	RESERVED
21	(15)	3	DECNEXTA	ADDRESS OF NEXT ADDRESS FEEDBACK FIELD. PRESENT ONLY IF R IS CODED IN WRITE MACRO
		DAT	A EVENT CONT	ROL BLOCK FOR BISAM
0	(0)	4	DECBECB	EVENT CONTROL BLOCK
0	(0)	4	DECBRB	SAME AS DECBRBA BELOW
0	.1	1 1 1 1.	DECBWAIT DECBPOST DECRSV11 DECRSV12 DECRSV13 DECRSV14 DECRSV15	FLAG FIELD AWAITING COMPLETION OF EVENT EVENT HAS COMPLETED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
1	(1)	3	DECBRBA	ADDRESS OF RB FOR PROGRAM AWAITING EVENT (BEFORE EVENT COMPLETION) OR RESERVED (AFTER EVENT COMPLETION)

```
OFFSET
          LENGTH NAME
                             DESCRIPTION
      (4)
             1 DECBTYP1
                             OPTION BYTE
      1...
                 DECRSV17
                            RESERVED
                 DECRSV18
                            RESERVED
                            RESERVED
                 DECRSV19
      . . 1 . . . . .
      ...1 ....
                 DECRSV20
                            RESERVED
      . . . . 1 . . .
                 DECRSV21
                             RESERVED
      .... .1..
                 DECRSV22
                             RESERVED
      .... ..1.
                             LENGTH CODED AS 'S'
                 DECBLNS
                             AREA CODED AS 'S'
                 DECBARS
      . . . . . . . 1
5
      (5)
             1 DECBTYP2
                             TYPE OF I/O REQUEST
      1... DECBRDK
                             READ K
      .1.. ....
                 DECRSV23
                             RESERVED
                             READ KU
      . . 1 . . . . . .
                 DECBRDKU
      ...1 ....
                 DECRSV24
                             RESERVED
      .... 1...
                 DECBWRK
                             WRITE K
      .... .1..
                 DECBWRKN
                             WRITE KN
                 DECRSV25
                             RESERVED
      .... ..1.
      .... ...1
                 DECRSV26
                             RESERVED
             2 DECBLGTH
                             NUMBER OF BYTES READ OR WRITTEN
6
      (6)
8
      (8)
             4
                DECBDCBA
                             ADDRESS OF DATA CONTROL BLOCK
12
      (C)
             4
                DECBAREA
                             ADDRESS OF AREA IN STORAGE FOR RECORD
     (10)
                             ADDRESS OF LOGICAL RECORD
16
             4
                DECBLOGR
20
     (14)
             4
                DECBKEY
                             ADDRESS OF KEY PORTION OF RECORD
24
     (18)
             1
                DECBEXC1
                             EXCEPTIONAL CONDITION CODE BYTE 1
                             RECORD NOT FOUND
      1...
                 DECEXRNF
                 DECEXRLC
                             RECORD LENGTH CHECK
      .1.. ....
                             SPACE NOT FOUND IN WHICH TO ADD A RECORD
      ..1. ....
                 DECEXNSP
                             INVALID REQUEST
      ...1 ....
                 DECEXINV
                             UNCORRECTABLE I/O ERROR
      .... 1...
                 DECEXERR
                             UNREACHABLE BLOCK
      .... .1..
                 DECEXUBK
                 DECEXOFL
                             OVERFLOW RECORD
      .... ..1.
                             DUPLICATE RECORD PRESENTED FOR INCLUSION IN
      . . . . . . . . 1
                 DECEXDUP
                             DATA SET
     (19) 1 DECBEXC2
25
                             EXCEPTIONAL CONDITION CODE BYTE 2
      1... ....
                 DECRSV27
                             RESERVED
                 DECRSV28
                             RESERVED
      .1.. ....
      ..1. ....
                 DECRSV29
                             RESERVED
                 DECRSV30
                             RESERVED
      ...1 ....
                 DECRSV31
                             RESERVED
      .... 1...
      .... .1..
                 DECRSV32
                             RESERVED
                 DECEXASR
                             EXECUTION OF LAST CHANNEL PROGRAM WAS
      . . . . . . 1 .
                             INSTITUTED BY AN ASYNCHRONOUS ROUTINE
      .... 1 DECEXRKU
                             PREVIOUS MACRO INSTRUCTION WAS READ KU
            DATA EVENT CONTROL BLOCK FOR BDAM
 0
      (0)
             1
                             COMPLETION CODE BYTE 1
      (1)
             1 DECCC2
                             COMPLETION CODE BYTE 2
                 DECCCRNF
                             RECORD NOT FOUND
      1... ....
      .1.. ....
                             RECORD LENGTH CHECK
                 DECCCRLC
      ..1. ....
                 DECCCNSP
                             SPACE NOT FOUND
                             INVALID REQUEST
      ...1 ....
                 DECCCINV
                             UNCORRECTABLE I/O ERROR
      .... 1.... DECCCERR
      .... .1..
                 DECCCEOD
                             END OF DATA
      .... ..1.
                 DECCCUER
                             UNCORRECTABLE ERROR OTHER THAN I/O ERROR
                 DECCCREX
                             A READ WITH EXCLUSIVE CONTROL WAS NOT
      . . . . . . . . 1
                             PRECEDED BY A WRITE WITH EXCLUSIVE CONTROL
```

OF	FSET	LENGTI	H NAME	DESCRIPTION
2	(2)	1	DECCC3	COMPLETION CODE BYTE 3
			DECRSV33 DECCCWRI	RESERVED A WRITE MACRO INSTRUCTION WAS ADDRESSED TO AN
				INPUT DATA SET
	1.	• • • •	DECCCEXS	AN EXTENDED SEARCH WAS SPECIFIED WITH DCBLIMCT FIELD SET TO ZERO
		1		BLOCK REQUESTED IS NOT WITHIN DATA SET A WRITE-BY-IDENTIFICATION (DI) ADDRESSED
	• • • •	.1	DECCCSDK	RECORD ZERO A SEARCH-ON-KEY (DK) WAS SPECIFIED WITH DCBKEYLE FIELD SET TO ZERO OR WITHOUT AN
		1.	DECCCOPT	ADDRESS FOR THE KEY A MACRO INSTRUCTION USED AN OPTION NOT SET IN THE DCB
	• • • •	1	DECCCKFF	THE KEY FOR THE FIXED-LENGTH RECORD TO BE ADDED BEGINS WITH HEX FF
3	(3)	1	DECRSV34	RESERVED
4	(4)	1	DECTYPE1	FIRST BYTE OF DECTYPE
			DECVERFY DECOFLOW	VERIFY OVERFLOW
				EXTENDED SEARCH
		1		FEEDBACK ACTUAL ADDRESSING
		1	DECACTAD	
		1.	DECRDEX	READ EXCLUSIVE
			DECRELBA	RELATIVE BLOCK ADDRESSING
5			DECTYPE2 DECKEYS	SECOND BYTE OF DECTYPE S CODED FOR KEY ADDRESS
			DECREIS	S CODED FOR BLOCK LENGTH
	11	••••	DECTYPRU	RU IS SUFFIXED TO THE TYPE, INDICATING THAT THE FEEDBACK ADDRESS POINTED TO BY DECNXADR CAN BE ADDRESS OF EITHER NEXT DATA RECORD OR
	01	••••	DECTYPR	NEXT CAPACITY RECORD, WHICHEVER OCCURS FIRST R IS SUFFIXED TO THE TYPE, INDICATING THAT THE FEEDBACK ADDRESS POINTED TO BY DECNXADR IS ADDRESS OF NEXT DATA RECORD (BIT 2 IS
		1	DECOPRD	ZERO) TYPE OF OPERATION - 0 IS WRITE. 1 IS READ
		.1	DECSRKEY	TYPE OF OPERATION - 0 IS WRITE, 1 IS READ TYPE OF SEARCH ARGUMENT - 0 IS ID , 1 IS KEY
		1.	DECWRADD DECRSV35	ADD OPTION OF WRITE OPERATION RESERVED
6	(6)	2	DECLNGTH	LENGTH OF DATA
8	(8)	4	DECDCBAD	ADDRESS OF DCB TO WHICH THIS I/O
4.0	(0)	4		REQUEST IS RELATED
12	(C)	4	DECAREA	ADDRESS OF DATA
16	(10)	4	DECIOBPT	ADDRESS OF IOB
20	(14)	4	DECKYADR	ADDRESS OF KEY
24	(18)	4	DECRECPT	ADDRESS OF BLOCK REFERENCE FIELD
28	(1C)	4	DECNA	SAME AS DECNAA BELOW
28	(1C)	1	DECRSV36	RESERVED
29	(1D)	3	DECNAA	ADDRESS OF NEXT ADDRESS FEEDBACK FIELD. PRESENT ONLY IF R OR RU IS CODED IN READ MACRO.
		DAT	A EVENT CONT	ROL BLOCK FOR BTAM
0	(0)	4	DECSDECB	EVENT CONTROL BLOCK

OFF	SET LENG	GTH NAME	DESCRIPTION
4	(4) 1 .1 1 1	DECRSV43 DECRSV44 DECRSV45 DECRSV46 DECRSV46 DECSTRME DECSAREA	FIRST BYTE OF DECTYPE READ, USING AUTOPOLL RESERVED RESERVED RESERVED 'S' CODED FOR TERMINAL ENTRY 'S' CODED FOR AREA 'S' CODED FOR LENGTH
5	(5)	1 DECTYPE2	OPERATION CODE
6	(6)	2 DECLNGTH	LENGTH OF BUFFER OR MESSAGE AREA
8	(8)	1 DECBUFCT	CONTAINS A RUNNING COUNT OF BUFFERS OBTAINED BY BTAM FOR CURRENT READ OPERATION. (DYNAMIC BUFFERING ONLY.) USE DIFFERS DURING BSC AND 2760 ON LINE TEST.
8	(8)	1 DECONLTT DECONLTS	FLAG BYTE FOR BSC AND 2760 ONLINE TEST IF ZERO, ONLINE TEST REQUESTED BY RFT MESSAGE (BSC). IF ONE, ONLINE TEST INITIATED BY ONLTST MACRO INSTRUCTION (BSC).
	.1		IF ZERO, SENDING TEST MESSAGES (BSC). IF ONE, RECEIVING TEST MESSAGES (BSC) OR TYPE 11 ONLINE TEST FOR 2760 OPTICAL IMAGE UNIT. RESERVED
	1	DECRSV48 DECRSV49 DECRSV50 DECRSV51	RESERVED RESERVED RESERVED RESERVED RESERVED
9	(9)	3 DECDCBAA	ADDRESS OF ASSOCIATED DCB
12	(C)	4 DECAREA	ADDRESS OF BUFFER OR MESSAGE AREA
16	(10)	1 DECSENSO	SENSE INFORMATION
17	(11)	1 DECSENS1	RESERVED
18	(12)	2 DECCOUNT	RESIDUAL COUNT FROM CSW FOR LAST CCW EXECUTED
20	(14)	4 DECENTRY	ADDRESS OF TERMINAL LIST
20	(14)	1 DECCMCOD	COMMAND FOR WHICH ERROR OCCURRED
21	(15)	3 DECENTRA	ADDRESS OF TERMINAL LIST
24		1 DECFLAGS	OPERATION STATUS
		DECWACK DECERRMS	WACK WAS RECEIVED (BSC) ERROR STATUS MESSAGE WAS RECEIVED (BSC). BIT1 IS OFF.
		DECDIFAC	ACKNOWLEDGMENT OTHER THAN ACK-0 OR ACK-1 RECEIVED (BSC)
	1	DECALTAC DECBADID	ACKNOWLEDGMENT ALTERNATION INCORRECT FOR TWX 33/35 STATION AND BSC STATION, INCORRECT ID RECEIVED. FOR AUTOPOLL, INDEX BYTE RECEIVED DOES NOT MATCH AN ACTIVE ONE. FOR BSC NONSWITCHED POINT-TO-POINT LINE, CONTENTION OCCURRED. FOR WTTA, CONTENTION OCCURRED OR INCORRECT ID RECEIVED.
		DECNOBUF DECNEGRP	FOR READ, DYNAMIC BUFFERING, NO BUFFER WAS AVAILABLE. (MESSAGE LOST) FOR OPENLST, POLLING, NEGATIVE RESPONSE TO POLLING RECEIVED. FOR WRAPLST, ALL ENTRIES ARE INACTIVE. FOR ADDRESSING, NEGATIVE RESPONSE TO ADDRESSING RECEIVED. FOR WTTA, LAST MESSAGE RECEIVED ENDED WITH EOT OR

OFF	SET	LENGT	H NAME	DESCRIPTION
		1.	DECREVRS DECSTXNQ	TIME-OUT. FOR 2741, POWER IS OFF OR OTHER INTERVENTION REQUIRED CONDITION EXISTS. FOR WTTA, MESSAGE ENDED WITH WRU SIGNAL. FOR BSC STATIONS, REVERSE INTERRUPT (RVI) SEQUENCE WAS RECEIVED (SEE ALSO BIT1). FOR 2741, WRITE OPERATION WAS ENDED BY TERMINAL INTERRUPT. FOR WTTA, CONTENTION CONDITION WAS ENCOUNTERED. FOR BSC STATIONS, STX ENQ SEQUENCE WAS RECEIVED.
25	(19)	1	DECRLN	RELATIVE LINE NUMBER
26	(1A)	2	DECRESPN	FOR BSC OPERATIONS, RESPONSE FROM A TERMINAL TO ADDRESSING. FOR STOP-START OPERATIONS, BYTE 1 IS RESPONSE FROM A TERMINAL TO ADDRESSING AND BYTE 2 IS VERTICAL REDUNDANCY CHARACTER AND LONGITUDINAL REDUNDANCY CHARACTER (VRC/LRC) RESPONSE.
28	(1C)	1	DECTPCOD	TP OPERATION CODE
29	1		DECERRST DECSIO3 DECUNDEF DECERPER	I/O ERROR STATUS FLAGS SIO RESULTED IN A CONDITION CODE OF 3 UNDEFINED ERROR CONDITION AN ERROR CONDITION OCCURRED DURING AN I/O OPERATION INITIATED BY ERROR RECOVERY ROUTINE
	• • •	1	DECDIAGN	DIAGNOSTIC WRITE/READ OPERATION ENDED BECAUSE OF ERROR (2701 ONLY)
	•••	. 1	DECDSABL	DISABLE COMMAND ISSUED TO SWITCHED LINE BY ERROR RECOVERY ROUTINE BECAUSE OF PERMANENT ERROR ON THAT LINE
		1 1. 1	DECRSV54	RESERVED RESERVED RESERVED
30	(1E)	2	DECCSWST	STATUS BITS FROM CSW FOR LAST CCW EXECUTED
32	(20)	4	DECADRPT	ADDRESS OF ADDRESSING LIST ENTRY USED IN PREVIOUS OPERATION
36	(24)	4	DECPOLPT	SAME AS DECPOLPA BELOW
36	(24)	1	DECNDXPL	FOR AUTOPOLL, INDEX TO CURRENT ENTRY IN POLLING LIST
3 7	(25)	3	DECPOLPA	FOR PROGRAMMED POLLING, ADDRESS OF CURRENT ENTRY IN POLLING LIST. FOR AUTOPOLL, ADDRESS OF POLLING LIST. FOR BSC ON-LINE TEST, ADDRESS OF TEXT DATA.
		FOR	THE AREA AN	IELDS ARE PRESENT ONLY IF A SUBLIST IS CODED D LENGTH OPERANDS OF THE READ OR WRITE MACRO T DEFINES THE DECB.
40	(28)	2	DECRSV56	RESERVED
42	(2A)	2	DECWLNG	LENGTH, IN BYTES, OF DATA AREA IN LEADING-GRAPHICS AND CONVERSATIONAL TYPE OPERATIONS OR OF AREA CONTAINING TONE CHARACTERS IN READ CONNECT WITH TONE (TCW) OPERATIONS
44	(2C)	4	DECWAREA	ADDRESS OF DATA AREA IN LEADING-GRAPHICS AND CONVERSATIONAL OPERATIONS, OR OF AREA CONTAINING TONE CHARACTERS IN READ TCW OPERATIONS

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	0 (0) 4 (4)	DECCCWRI DECCC2	2 X'40' 1 (1)	DECREVRS DECRLN	24 X'02' 25 (19)
	5 (5)	DECCC2	2 (2)	DECRENO1	4 X'40'
	6 (6)	DECCMCOD	20 (14)	DECRSV02	4 X'20'
	8 (8)	DECCOUNT	18 (12)	DECRSV03	4 X'10'
	12 (C)			DECRSV04	4 X'08'
	16 (10)		00 (4-)	DECRSV05	4 X'04'
	6 (6)	DECCSWST	30 (1E)	DECRSV06	4 X'02'
	8 (8) 12 (C)	DECDCBAA DECDCBAD	9 (9) 8 (8)	DECRSV07 DECRSV08	4 X'01' 5 X'08'
	37 (25)	DECDEAD	29 X'10'	DECRSV08	5 X'02'
	0 (0)	DECDIFAC	24 X'40'	DECRSV10	20 (14)
	4 (4)	DECDSABL	29 X'08'	DECRSV11	0 X'20'
	5 (5)	DECDYNBF	4 X'04'	DECRSV12	0 X'10'
	6 (6)	DECENTRA	21 (15)	DECRSV13	0 X'08'
DD010000	12 (C)	DECENTRY	20 (14)	DECRSV14	0 X'04'
DECACTAD	4 X'08'	DECERPER DECERRMS	29 X'20' 24 X'80'	DECRSV15 DECRSV16	0 X'02' 0 X'01'
DECADRPT	32 (20)	DECERRIS	24 X 80 29 (1D)	DECRSV16	0 X'01' 4 X'80'
DECALTAC	24 X'20'	DECEXASR	25 X'02'	DECRSV17	4 X'40'
DECAREA	12 (C)	DECEXDUP	24 X'01'	DECRSV19	4 X'20'
DECBADID	24 X'10'	DECEXERR	24 X'08'	DECRSV20	4 X'10'
DECBAREA	12 (C)	DECEXINV	24 X'10'	DECRSV21	4 X'08'
DECBARS	4 X'01'	DECEXNSP	24 X'20'	DECRSV22	4 X'04'
DECBDCBA	8 (8)	DECEXOFL	24 X'02'	DECRSV23	5 X'40'
DECBECB	0 (0)	DECEXRKU	25 X'01'	DECRSV24	5 X'10' 5 X'02'
DECBECBF DECBEXC1	0 (0) 24 (18)	DECEXRLC DECEXRNF	24 X'40' 24 X'80'	DECRSV25 DECRSV26	5 X'02'
DECBEXC2	25 (19)	DECEXRRI	4 X'20'	DECRSV27	25 X'80'
DECBKEY	20 (14)	DECEXUBK	24 X'04'	DECRSV28	25 X'40'
DECBKLNS	5 X'40'	DECFDBCK	4 X'10'	DECRSV29	25 X'20'
DECBLGTH	6 (6)	DECFLAGS	24 (18)	DECRSV30	25 X'10'
DECBLNS	4 X'02'	DECIOBPT	16 (10)	DECRSV31	25 X'08'
DECBLOGR	16 (10)	DECKEYS	5 X'80'	DECRSV32	25 X'04'
DECBPOST DECBPTR	0 X'40' 4 (4)	DECKYADR DECLNGTH	20 (14) 6 (6)	DECRSV33 DECRSV34	2 X'80' 3 (3)
DECBPIK	0 (0)	DECLNS	4 X'80'	DECRSV34	5 X'01'
DECBRBA	1 (1)	DECNA	28 (1C)	DECRSV36	28 (1C)
DECBRDK	5 X'80'	DECNAA	29 (1D)		, ,
DECBRDKU	5 X'20'	DECNDXPL	36 (24)		
DECBTYP1	4 (4)	DECNEGRP	24 X'04'		
DECBTYP2	5 (5)	DECNEXT	20 (14)		
DECBUFCT DECBWAIT	8 (8) 0 x'80'	DECNEXTA	21 (15)	DECRSV42	36 (24)
DECBWRK	5 X'08'	DECNOBUF	24 X'08'	DECRSV42	4 X'40'
DECBWRKN	5 X'04'	DECOFLOW	4 X'40'	DECRSV44	4 X'20'
DECCCEOD	1 X'04'	DECONLTS	8 X'80'	DECRSV45	4 X'10'
DECCCERR	1 X'08'	DECONLTT	8 (8)	DECRSV46	4 X'08'
DECCCEXS	2 X'20'		E	DECRSV47	8 X'20'
DECCCINV	1 X'10'	DECOPRD	5 X'08'	DECRSV48	8 X'10'
DECCCKFF DECCCNBK	2 X'01' 2 X'10'	DECPOLPA DECPOLPT	37 (25) 36 (24)	DECRSV49 DECRSV50	8 X'08' 8 X'04'
DECCENSE	1 X'20'	DECRCVMS	8 X'40'	DECRSV50	8 X'02'
DECCCOPT	2 X'02'	DECRDAPL	4 X'80'	DECRSV52	8 X'01'
DECCCREX	1 X'01'	DECRDEX	4 X'02'	DECRSV53	29 X'04'
DECCCRLC	1 X'40'	DECRDSB	5 X'40'	DECRSV54	29 X'02'
DECCERNE	1 X'80'	DECRDSF	5 X'80'	DECRSV55	29 X'01'
DECCCSDK DECCCUER	2 X'04' 1 X'02'	DECRECPT DECRELBA	24 (18) 4 X'01'	DECRSV56 DECSAREA	40 (28) 4 X ' 02 '
DECCCWDI	2 X'08'	DECRESPN	26 (1A)	DECSDECB	0 (0)

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DECSENSO	16 (10)				
DECSENS1	17 (11)				
DECSIO3	29 X'80'				
DECSLNTH	4 X'01'				
DECSRKEY	5 X'04'				
DECSTRME	4 X'04'				
DECSTXNQ	24 X'01'				
DECTPCOD	28 (1C)				
DECTYPE	4 (4)				
DECTYPE1	4 (4)				
DECTYPE2	5 (5)				
DECTYPR	5 X'10'				
DECTYPRU	5 X'30'				
DECUNDEF	29 X'40'				
DECVERFY	4 X'80'				
DECWACK	24 X'CO'				
DECWAREA	44 (2C)				
DECWLNG	42 (2A)				
DECWRADD	5 X'02'				
DECWRSD	5 X'10'				
DECWRSF	5 X'20'				
DECWRSFR	5 X'01'				
DECWRSZ	5 X'04'				
LINEDECB	0 (0)				
		EN	D OF DECB		

Data Event Control Block -- TCAM

The data event control block (DECB) is created whehever a READ or WRITE macro instruction is expanded. It contains information about the input or output operation that has been requested.

OFF	SET	LENGT	H NAME	DESCRIPTION
0	(0)	4	DECSDECB	STATUS FLAG + ADDRESS OF THE TCB
4	(4)	2	DECTYPE	OPERATION TYPE
6	(6)	2	DECLNGTH	AREA LENGTH
8	(8)	1	DECONLTT	RESERVED FOR ON-LINE TERMINAL TEST
8	(8)	4	DECDCBAD	ADDRESS OF DCB
12	(C)	4	DECAREA	ADDRESS OF AREA
16	(10)	1	DECSENSO	1ST SENSE BYTE
17	(11)	1	DECSENS1	2ND SENSE BYTE
18	(12)	2	DECCOUNT	RESIDUAL COUNT
20	(14)	1	DECCMCOD	COMMAND CODE
20	(14)	4	DECENTRY	ADDRESS OF TERMINAL LIST
24	(18)	1	DECFLAGS	STATUS FLAGS
25	(19)	1	DECRLN	RELATIVE LINE NUMBER
26	(1A)	2	DECRESPN	RESPONSE FIELDS
28	(1C)	1	DECTPCOD	TP-OP CODE
29	(1D)	1	DECERRST	ERROR STATUS
30	(1E)	2	DECCSWST	CSW STATUS
32	(20)	4	DECADRPT	ADDRESS OF CURRENT ADDRESSING ENTRY
36	(24)	4	DECPOLPT	ADDRESS OF CURRENT POLLING ENTRY
40	(28)	2		RESERVED
42	(2A)	2	DECWLNG	WRITE AREA LENGTH
44	(2C)	4	DECWAREA	ADDRESS OF WRITE AREA

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DECADRPT DECAREA DECCMCOD DECCOUNT DECCSWST DECDCBAD DECENTRY DECERST DECFLAGS DECLNGTH DECONLTT DECPOLPT DECRESPN DECRLN DECSDECB DECSENS0 DECSENS1 DECTPCOD DECTYPE DECWAREA DECWLNG	40 (28) 32 (20) 12 (C) 20 (14) 18 (12) 30 (1E) 8 (8) 20 (14) 29 (1D) 24 (18) 6 (6) 8 (8) 36 (24) 26 (1A) 25 (19) 0 (0) 16 (10) 17 (11) 28 (1C) 4 (4) 44 (2C) 42 (2A)				
		END O	F DECB - TCAM		

Device Name Table

The device name table (DNT) contains all of the device names that are in use. The DNT is a part of the job management initiator/terminator routine. The information in this table and in the unit control blocks is used in the allocation of devices as specified on dd statements.

OFI	SET	LENGTH	<u>NAME</u>	DESCRIPTION
0	(0)	4		THE NUMBER OF 12-BYTE ENTRIES IN THE TABLE. EACH DEVICE NAME HAS ONE ENTRY.
		THE	FOLLOWING	12 BYTE FIELD IS REPEATED FOR EACH DEVICE
+0	(0)	8		A DEVICE NAME WHICH IS GENERIC OR USER ASSIGNED. THE NAME IS LEFT JUSTIFIED AND PADDED WITH BLANKS TO THE RIGHT. THE GENERIC NAME IS AN IBM GENERATED NAME UP TO 8 CHARACTERS IN LENGTH. FOR EXAMPLE, 3400, 3330. THE USER ASSIGNED NAME MAY BE UP TO 8 CHARACTERS IN LENGTH. FOR EXAMPLE, MAGTAPE, DISK, CARDIN.
+8	(8)	4		FOR A GENERIC NAMED DEVICE TYPE, SAME AS UCBTYP FIELD IN THE UCB EXCEPT THAT OPTIONAL FEATURES ARE NOT SHOWN; BYTE 2 CONTAINS ZEROS.
+8	(8)	2		FOR A USER ASSIGNED NAME DEVICE, A DIGIT ONE HIGHER THAN THE DIGIT FOR THE PRECEDING USER ASSIGNED NAME. THE FIRST ENTRY FOR A USER ASSIGNED NAME CONTAINS A ONE IN THIS FIELD.
+10	xxxx	1 x xx		FLAG IF ONE DEVICE IS ASSOCIATED WITH THE DEVICE NAME, SAME AS BITS 0-5 OF BYTE 3 OF THE UCBTYP FIELD. IF MORE THAN ONE DEVICE IS ASSOCIATED WITH THE NAME, THE RESULT OF ORING THE BITS 0-5 OF BYTE 3 OF THE UCBTYP FIELD FOR EACH DEVICE. ALWAYS ZERO.
+11	(B)	1		ZERO.

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	0 (0)				
	+0 (0)				
	+8 (8)				
	+10 (A)				
	+11 (B)				
		•	END OF DNT		

Data Set Control Blocks

The data set label for a data set residing on a direct access volume is called a data set control block (DSCB). One or more DSCBs are used to describe the data set. Each DSCB is 140 bytes long, consisting of a 44 byte key and a 96 byte data portion.

The DSCBs describing all data sets on a volume make up the volume table of contents (VTOC).

Separate descriptions are presented for the following DSCB formats:

- Format 1 -- Identifier DSCB
- Format 2 -- Index DSCB
- Format 3 -- Extension DSCB
- Format 4 -- VTOC DSCB
- Format 5 -- Free Space DSCB
- Format 6 -- Shared Extent DSCB

In addition, there is a format 0 DSCB, the free VTOC record. It has the same format as the other DSCB formats; however, it contains all binary zeros.

Format 1 -- Identifier Data Set Control Block

The identifier data set control block (DSCB) describes the characteristics and up to three extents of a data set. For data sets having indexed sequential (IS) organization, additional characteristics are specified in a format 2 (index) DSCB pointed to by the format 1 DSCB. Additional extents are described in a format 3 (extension) DSCB pointed to by the format 1 DSCB (or format 2 when the data set has IS organization). A data set can have a maximum of 16 extents on one volume.

0770				DESCRIPTION
OFFS	ET I	ENGTH	H NAME	DESCRIPTION
0	(0)	44	DS1DSNAM	DATA SET NAME IN EBCDIC.
44	(2C)	1	DS1FMTID	FORMAT IDENTIFIER; HEX F1 IDENTIFIES THIS AS A FORMAT 1 DSCB.
45	(2D)	6	DS1DSSN	DATA SET SERIAL NUMBER. THIS FIELD IS IDENTICAL TO THE CONTENTS OF THE VOLUME SERIAL NUMBER FIELD IN THE VOLUME LABEL OF THE FIRST OR ONLY VOLUME ON WHICH THE DATA SET RESIDES.
51	(33)	2	DS1VOLSQ	VOLUME SEQUENCE NUMBER IN BINARY. INDICATES THE ORDER OF THIS VOLUME RELATIVE TO THE FIRST VOLUME ON WHICH THE DATA SET RESIDES.
53	(35)	3	DS1CREDT	CREATION DATE IN BINARY, IN THE FORM YDD.
				Y - YEAR: 00-99
				DD - DAY: 001-366
56	(38)	3	DS1EXPDT	EXPIRATION DATE IN BINARY, IN THE FORM YDD (AS ABOVE). INDICATES THE YEAR AND THE DAY OF THE YEAR THE DATA SET MAY BE PURGED. IF NEITHER A RETENTION PERIOD NOR AN EXPIRATION DATE HAS BEEN SPECIFIED, YDD IS ZERO.
59	(3B)	1	DS1NOEPV	NUMBER OF SEPARATE EXTENTS IN WHICH THE DATA SET RESIDES ON THIS VOLUME. THIS COUNT DOES NOT INCLUDE THE EXTENT DESCRIBING A USER'S LABEL TRACK.
60	(3C)	1	DS1NOBDB	NUMBER OF BYTES USED IN THE LAST PDS DIRECTORY BLOCK. A VALUE OF ZERO INDICATES THAT THE LAST AVAILABLE BLOCK IS NOT BEING USED.
61	(3D)	1		RESERVED.
62	(3E)	13	DS1SYSCD	SYSTEM CODE. AN EBCDIC CODE THAT UNIQUELY IDENTIFIES THE OPERATING SYSTEM. THE FIRST THREE CHARACTERS ARE IBM. THE REMAINING CHARACTERS ARE THE SYSTEM CODE ASSIGNED TO THE CREATING SYSTEM.
75	(4B)	7		RESERVED.
82	(52)	2	DS1DSORG	DATA SET ORGANIZATION.
	BYTE			CODE
	1			IS INDEXED SEQUENTIAL ORGANIZATION. PS PHYSICAL SEQUENTIAL ORGANIZATION.
	1.			DA DIRECT ORGANIZATION.
	1			(RESERVED BITS) CX BTAM LINE GROUP
		XX		RESERVED BITS.
				PO PARTITIONED ORGANIZATION. U UNMOVABLE THE DATA CONTAINS LOCATION DEPENDENT INFORMATION.
83	BYTE (53)	2		
	1			GS GRAPHICS ORGANIZATION. TX TCAM LINE GROUP.
	1.			TQ TCAM MESSAGE QUEUE.
	X	X.XX		RESERVED. TR TCAM 3705.
84			DS1RECFM	RECORD FORMAT.
	10 01 11 1.			F FIXED LENGTH RECORD FORMAT. V VARIABLE LENGTH RECORD FORMAT. U UNDEFINED LENGTH RECORD FORMAT. T TRACK OVERFLOW.

OFFS	ET LENGTH NAME	DESCRIPTION
85	1 10	B BLOCKED: MAY NOT OCCUR WITH UNDEFINED (U). S FIXED LENGTH RECORD FORMAT: STANDARD BLOCKS; NO TRUNCATED BLOCKS OR UNFILLED TRACKS ARE EMBEDDED IN THE DATA SET. VARIABLE LENGTH RECORD FORMAT: SPANNED RECORDS. A ANSI CONTROL CHARACTER. M MACHINE CONTROL CHARACTER. NO CONTROL CHARACTER. RESERVED. OPTION CODE SAME AS DCBOPTCD FIELD IN DCB.
86	(56) 2 DS1BLKL	BLOCK LENGTH FOR FIXED LENGTH RECORDS OR MAXIMUM BLOCK SIZE FOR VARIABLE OR UNDEFINED LENGTH RECORDS.
88	(58) 2 DS1LRECL	FORMAT F RECORDS: RECORD LENGTH.
		FORMAT U RECORDS: ZERO.
		FORMAT V RECORDS:
		UNSPANNED RECORD FORMAT:
		MAXIMUM RECORD LENGTH.
		SPANNED RECORD FORMAT -
		RECORDS UP TO 32,756 BYTES:
		MAXIMUM RECORD LENGTH.
		RECORDS EXCEEDING 32,756 BYTES.
		x'8000'.
90	(5A) 1 DS1KEYL	KEY LENGTH. THE LENGTH (1-255 BYTES) OF THE KEY OF THE DATA RECORDS IN THE DATA SET. A VALUE OF ZERO INDICATES THAT NO KEY EXISTS.
91	(5B) 2 DS1RKP	RELATIVE KEY POSITION IN THE DATA BLOCK.
93	(5D) 1 DS1DSIND	DATA SET INDICATORS.
	1	THIS IS THE LAST VOLUME ON WHICH THIS DATA SET NORMALLY RESIDES
	1	BLOCK LENGTH MUST ALWAYS BE A MULTIPLE OF 8 BYTES.
94	x .x1 .01 .1X X.XX (5E) 4 DS1SCALO	DATA SET SECURITY. PASSWORD IS REQUIRED TO READ OR WRITE. PASSWORD IS REQUIRED TO WRITE BUT NOT TO READ. (RESERVED BITS) ALLOCATION PARAMETERS.
	BYTE 1 00 01 10 11 1 1	TYPE OF REQUEST ISSUED FOR THE INITIAL ALLOCATION AND TO BE USED FOR SUBSEQUENT EXTENSIONS. ORIGINAL REQUEST WAS: IN TRACKS RELATIVE TO A SPECIFIC LOCATION. NO SECONDARY ALLOCATION WILL BE ALLOWED. IN BLOCKS (PHYSICAL RECORDS). IN TRACKS. IN CYLINDERS. (RESERVED BITS) FOR A CONTINGUOUS EXTENT. FOR THE MAXIMUM CONTIGUOUS EXTENT ON THE VOLUME. FOR THE FIVE (OR LESS) LARGEST EXTENTS THAT ARE GREATER THAN OR EQUAL TO A SPECIFIED MINIMUM.

OFFS	ET LEN	GTH NAME	DESCRIPTION
	• • • • • • • • • • • • • • • • • • • •	. 1	IN RECORDS, TO BE ROUNDED UP TO A CLYINDER BOUNDARY.
95	(5F)	BYTE 2-4	SECONDARY ALLOCATION QUANTITY. NUMBER OF BLOCKS, TRACKS, OR CYLINDERS TO BE REQUESTED AT END OF DATA SET WHEN PROCESSING A SEQUENTIAL OR PARTITIONED DATA SET.
98	(62)	3 DS1LSTAR	THE LAST-BLOCK POINTER IDENTIFIES THE LAST BLOCK WRITTEN IN A SEQUENTAIL OR PARTITIONED ORGANIZATION DATA SET. IT IS IN THE FORMAT TTRLL (LL IS DEFINED UNDER THE NEXT FIELD NAME):
			TT - RELATIVE ADDRESS OF TRACK CONTAINING THE LAST BLOCK.
			R - BLOCK NUMBER ON THAT TRACK.
101	(65)	2 DS1TRBAL	LL PORTION OF THE FORMAT GIVEN IN DS1LSTAR.
			LL - NUMBER OF BYTES REMAINING ON TRACK FOLLOWING THE BLOCK.
			NOTE: IF BOTH FIELDS CONTAIN BINARY ZEROS, THE LAST BLOCK POINTER DOES NOT APPLY.
103	(67)	2	RESERVED.
105	(69)	10 DS1EXT1	EXTENT DESCRIPTION FOR THE FIRST EXTENT.
			THIS EXTENT DESCRIPTION IS ALSO USED IN FORMAT 3 AND 4 DSCBS.
105	(69)	BYTE 1	DATA SET EXTENT TYPE INDICATOR.
			OO FOLLOWING 9 BYTES DO NOT INDICATE ANY EXTENT. O1 THE EXTENT CONTAINS THE DATA BLOCKS (USER'S BLOCKS), OR IS A PRIME AREA (FOR IS DATA SETS). O2 THE EXTENT IS AN OVERFLOW AREA (FOR IS DATA SETS ONLY). O4 THE EXTENT IS AN INDEX AREA (FOR IS DATA SETS ONLY). O THE FIRST EXTENT DESCRIPTION DESCRIBES THE USER LABEL EXTENT. O THE EXTENT DESCRIBED IS SHARING ONE OR MORE CYLINDERS WITH ONE OR MORE DATA SETS. THE EXTENT DESCRIBED BEGINS AND ENDS ON CYLINDER BOUNDARIES, I.E., THE EXTENT IS COMPOSED OF ONE OR MORE CYLINDERS.
107	(6A)	BYTE 2	EXTENT SEQUENCE NUMBER (M)
			UNIQUELY IDENTIFIES EACH SEPARATE EXTENT ON A GIVEN VOLUME FOR A DATA SET. FOR ALL ORGANIZATIONS BUT INDEXED SEQUENTIAL, THE FIRST EXTENT OF THE DATA SET ON EACH VOLUME IS IDENTIFIED WITH ZERO IN THIS FIELD. THE FIRST EXTENT ON EACH VOLUME OF AN INDEXED SEQUENTIAL DATA SET IS IDENTIFIED WITH A VALUE OF ONE IN THE FIELD.
			ADDITIONAL, EXTENTS ON THE VOLUME ARE IDENTIFIED WITH SEQUENTIALLY INCREASING BINARY VALUES. THIS FIELD IS ALWAYS ZERO FOR AN EXTENT FIELD POINTING TO A USER LABEL TRACK.
107	(6B)	BYTES 3-6	LOWER LIMIT OF THIS EXTENT (CCHH). CONTAINS THE CYLINDER AND THE TRACK ADDRESS SPECIFYING THE STARTING POINT OF THIS EXTENT.

OFFS	ET LE	NGTH NAME	DESCRIPTION
111	(6F)	BYTES 7-10	UPPER LIMIT OF THIS EXTENT (CCHH). CONTAINS THE CYLINDER AND TRACK ADDRESS SPECIFYING THE ENDING POINT OF THIS EXTENT.
115	(73)	10 DS1EXT2	EXTENT DESCRIPTION FOR THE SECOND EXTENT. SAME FORMAT AS DS1EXT1 FIELD.
125	(7D)	10 DS1EXT3	EXTENT DESCRIPTION FOR THE THIRD EXTENT. SAME FORMAT AS DS1EXT1 FIELD.
135	(87)	5 DS1PTRDS	POINTER TO A FORMAT 2 DSCB, IF DATA SET HAS IS ORGANIZATION, OR POINTER TO A FORMAT 3 DSCB IF DATA SET HAS SEQUENTIAL OR DIRECT ORGANIZATION AND MORE THAN 3 EXTENTS. THIS POINTER HAS THE FORMAT CCHHR. CONTAINS BINARY ZEROS IF NO ADDITIONAL DSCB IS POINTED TO.

Format 2 -- Index Data Set Control Block

The index data set control block (DSCB) describes characteristics of a data set having indexed sequential organization. It is pointed to by a format 1 (identifier) DSCB which contains additional data set characteristics and up to three extent descriptions. Additional extents are described in a format 3 (extension) DSCB pointed to by the format 2 DSCB.

OFFS	ET I	LENGTH	H NAME	DESCRIPTION
0	(0)	1		02 HEX CODE 02 PROVIDES A UNIQUE KEY FIELD.
1	(1)	7	DS22MIND	ADDRESS OF THE FIRST TRACK OF THE SECOND LEVEL MASTER INDEX IN THE FORM MBBCCHH.
8	(8)	5	DS2L2MEN	CCHHR OF THE LAST ACTIVE INDEX ENTRY IN THE SECOND LEVEL MASTER INDEX.
13	(D)	7	DS23MIND	ADDRESS OF THE FIRST TRACK OF THE THIRD LEVEL MASTER INDEX IN THE FORM MBBCCHH.
20	(14)	5	DS2L3MIN	CCHHR OF THE LAST ACTIVE INDEX ENTRY IN THE THIRD LEVEL MASTER INDEX.
25	(11)	11		RESERVED.
36	(24)	8	DS2LPDT	LAST PRIME TRACK ON THE LAST PRIME CYLINDER.
44	(2C)	1	DS2FMTID	FORMAT IDENTIFICATION FOR FORMAT 2 DSCB. (EBCDIC 2.)
45	(2D)	1	DS2NOLEV	NUMBER OF INDEX LEVELS. A BINARY NUMBER INDICATING HOW MANY LEVELS OF INDEX ARE PRESENT WITH AN INDEXED SEQUENTIAL DATA SET.
46	(2E)	1	DS2DVIND	NUMBER OF TRACKS DETERMINING DEVELOPMENT OF THE MASTER INDEX.
47	(2F)	3	DS21RCYL	HHR OF THE FIRST DATA RECORD ON EACH CYLINDER.
50	(32)	2	DS2LTCYL	HH OF THE LAST DATA TRACK ON EACH CYLINDER.
52	(34)	1	DS2CYLOV	NUMBER OF TRACKS OF CYLINDER OVERFLOW AREA ON EACH CYLINDER.
53	(35)	1	DS2HIRIN	HIGHEST POSSIBLE R ON A TRACK CONTAINING HIGH LEVEL INDEX ENTRIES.
54	(36)	1	DS2HIRPR	HIGHEST POSSIBLE R ON PRIME DATA TRACKS FOR FORMAT F RECORDS.
55	(7)	1	DS2HIROV	HIGHEST POSSIBLE R ON OVERFLOW DATA TRACKS FOR FORMAT F RECORDS.
56	(38)	1	DS2RSHTR	R OF THE LAST DATA RECORD ON A SHARED TRACK.
57	(39)	1	DS2HIRTI	HIGHEST POSSIBLE R ON AN UNSHARED TRACK OF THE TRACK INDEX.
58	(3A)	1	DS2HIIOV	FIXED-LENGTH RECORD FORMAT: HIGHEST POSSIBLE R FOR INDEPENDENT OVERFLOW DATA TRACKS.
59	(3B)	2	DS2TAGDT	VARIABLE-LENGTH RECORD FORMAT: UNUSED. USER SUPPLIED NUMBER OF RECORDS TAGGED FOR DELETION. THIS FIELD IS MERGED TO AND FROM THE DCB FOR BISAM, QISAM SCAN MODE, AND RESUME LOAD.
61	(3D)	3	DS2RORG3	A COUNT OF THE NUMBER OF READ AND WRITE ACCESSES, MADE DURING THE LAST USE OF THE DATA SET, TO AN OVERFLOW RECORD THAT IS NOT FIRST IN A CHAIN OF SUCH RECORDS.
64	(40)	2	DS2NOBYT	NUMBER OF BYTES NEEDED TO HOLD THE HIGHEST-LEVEL INDEX IN MAIN STORAGE.
66	(42)	1	DS2NOTRK	NUMBER OF TRACKS OCCUPIED BY THE HIGHEST LEVEL INDEX.
67	(43)	4	DS2PRCTR	NUMBER OF RECORDS IN THE PRIME DATA AREA.
71	(47)	1	DS2STIND	STATUS INDICATORS.
	X.,X			(RESERVED BITS)
		• • • •		KEY SEQUENCE CHECKING IS TO BE PERFORMED. AN INITIAL LOAD HAS BEEN COMPLETED.

OFFS	ET LEN	IGTH NAME	DESCRIPTION
72	(48)	.1	LAST BLOCK FULL. LAST TRACK FULL. ADDRESS OF THE FIRST TRACK OF THE CYLINDER INDEX IN THE FORM MBBCCHH.
79	(4F)	7 DS2ASLIN	ADDRESS OF THE FIRST TRACK OF THE LOWEST LEVEL MASTER INDEX IN THE FORM MBBCCHH.
86	(56)	7 DS2ADHIN	ADDRESS OF THE FIRST TRACK OF THE HIGHEST LEVEL INDEX IN THE FORM MBBCCHH.
93	(5D)	8 DS2LPRAD	ADDRESS OF THE LAST RECORD IN THE PRIME DATA AREA, IN THE FORM MBBCCHHR.
101	(65)	5 DS2LTRAD	CCHHR OF THE LAST NORMAL ENTRY IN THE TRACK INDEX ON THE CYLINDER CONTAINING THE LAST PRIME DATA RECORD OF THE DATA SET.
106	(6A)	5 DS2LCYAD	CCHHR OF THE LAST INDEX ENTRY IN THE CYLINDER INDEX.
111	(6F)	5 DS2LMSAD	CCHHR OF THE LAST INDEX ENTRY IN THE MASTER INDEX.
116	(74)	8 DS2LOVAD	ADDRESS OF THE LAST RECORD WRITTEN IN THE CURRENT INDEPENDENT OVERFLOW AREA, IN THE FORM MBBCCHHR.
124	(7C)	2 DS2BYOVL	NUMBER OF BYTES REMAINING ON THE CURRENT INDEPENDENT OVERFLOW TRACK.
126	(7E)	2 DS2RORG2	NUMBER OF TRACKS REMAINING IN THE INDEPENDENT OVERFLOW AREA.
128	(80)	2 DS2OVRCT	NUMBER OF RECORDS IN THE OVERFLOW AREA.
130	(82)	2 DS2RORG1	NUMBER OF CYLINDER OVERFLOW AREAS THAT ARE FULL.
132	(84)	3 DS2NIRT	HHR OF THE DUMMY TRACK INDEX ENTRY.
135	(87)	5 DS2PTRDS	POINTER TO FORMAT 3 DSCB IF A CONTINUATION IS NEEDED TO DESCRIBE THIS DATA SET. THIS POINTER HAS THE FORMAT CCHHR.

Format 3 -- Extension Data Set Control Block

The extension data set control block (DSCB) describes up to thirteen additional extents that cannot be described in a format 1 DSCB. It is pointed to by a format 1 or format 2 DSCB.

OFFSET LENGTH NAME			NGTH NAME	DESCRIPTION
	0	(0)	4 (KEY IDENTIFIER)	03 A HEXADECIMAL 03 IN EACH BYTE.
	4	(4)	40 DS3EXTNT	EXTENT (IN KEY). FOUR TEN-BYTE FIELDS IDENTICAL TO THE DS1EXT1 FIELD IN THE FORMAT 1 DSCB.
	44	(2C)	1 DS3FMTID	F3 FORMAT IDENTIFIER HEX F3.
	45	(2D)	90 DS3ADEXT	ADDITIONAL EXTENT. NINE TEN-BYTE FIELDS IDENTICAL TO THE DS1EXT1 FIELD IN THE FORMAT 1 DSCB.
	135	(87)	5 DS3PTRDS	RESERVED CONTAINS BINARY ZEROS.

Format 4 -- VTOC Data Set Control Block

The VTOC data set control block (DSCB) describes the volume table of contents (VTOC) data set. It is always the first DSCB in the VTOC.

0	OFFS	ET L	ENGTH	NAME	DESCRIPTION
45 (2D) 5 DSAHPCHR HIGHEST ADDRESS PREVIOUSLY USED FOR A FORMAT 1 DSCB IN THE FORM CCHHR. 50 (32) 2 DSABSEC NUMBER OF AVAILABLE FORMAT 0 DSCBS IN THE VTOC. 52 (34) 4 DSAHCCHH CCHH OF NEXT AVAILABLE FORMAT 0 DSCBS IN THE VTOC. 56 (38) 2 DSANDATK NUMBER OF ALTERNATE TRACKS REMAINING. 58 (3A) 1 DSAVTOCI VTOC INDICATORS. 59 (3B) 1 DSAVTOCI VTOC INDICATORS. 50 (3C) 2 ETHER NO FORMAT 5 DSCBS EXIST OR THEY DO NOT REFLECT THE TRUE STATUS OF THE VOLUME. 50 (3C) 1 AND DIT O HAS BEEN TURNED OFF. THIS VOLUME MAY CONTAIN DATA SETS PRODUCED BY THE IBM DISK OPERATING SYSTEM, VS2 ACCESS METHODS MAY NOT BE ABLE TO PROCESS THESE DATA SETS—A DADSM FUNCTION HAS BEEN PREMATURELY TERMINATED POSSIBLE VTOC ERRORS EXIST. 59 (3B) 1 DSANOEXT EXEMPLY DESCRIBE THE DEVICE ON WHICH THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED THE SMALLEST COLLECTION OF TWO OR MORE TRACKS THAT CAN BE PROCESSED BY A SET FILE MASK CCW (HEXADECIMAL IF). 64 (40) 2 DSADEVY NUMBER OF TRACKS PER LOGICAL CYLINDER. 65 (44) 2 DSADEVY NUMBER OF TRACKS PER LOGICAL CYLINDER. 66 (44) 2 DSADEVY NUMBER OF TRACKS PER LOGICAL CYLINDER. 67 (46) 1 DSADEVI A COUNT OF THE NUMBER OF BYTES OF A KEYED RECORD. IF THE BIT IS SET TO 0, THE FIELD CONSISTS OF THE FIELD CONTAINING A BINARY COUNT OF THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. 69 (45) 1 DSADEVI A COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. 69 (45) 1 DSADEVI THE NUMBER OF OF DETES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. 70 (46) 1 DSADEVY THE NUMBER OF OF DETES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST REC	0	(0)	44	(PADDIN)	HEXADECIMAL 04 IN EACH BYTE.
DSCB IN THE FORM CCHHR. 50 (32) 2 DS4DSREC NUMBER OF AVAILABLE FORMAT 0 DSCBS IN THE VTOC. 52 (34) 4 DS4HCCHH CCHH OF NEXT AVAILABLE ALTERNATE TRACK. 56 (38) 2 DS4NOATK NUMBER OF ALTERNATE TRACKS REMAINING. 58 (3A) 1 DS4VTOCI VTOC INDICATORS. 1 51 ETHER NO FORMAT 5 DSCBS EXIST OR THEY DO NOT REFLECT THE TRUE STATUS OF THE VOLUME. ACCURATE FORMAT 5 AND 6 DSCBS NOW EXIST AND BIT 0 HAS BEEN TURNED OFF. THIS VOLUME MAY CONTAIN DATA SETS PRODUCED BY THE IBM DISK OPERATING SYSTEM, VS2 ACCESS METHODS MAY NOT BE ABLE TO PROCESS THESE DATA SETS— A DADSM FUNCTION HAS BEEN PREMATURELY TERMINATED. POSSIBLE VTOC ERRORS EXIST. RESERVED BITS. A DASS MENTANCED OFF. THIS VOLUME WAS MOUNTED WHEN THE VICTOR WAS CREATED THE FOLLOWING FIELDS DESCRIBE THE DEVICE ON WHICH THIS VOLUME WAS MOUNTED WHEN THE VITOC WAS CREATED THE FOLLOWING FIELDS DESCRIBE THE DEVICE ON WHICH THIS VOLUME WAS MOUNTED WHEN THE VITOC WAS CREATED DEVICE SIZE. 62 (3E) 4 DS4DEVSZ DEVICE SIZE. 64 (40) 2 NUMBER OF LOGICAL CYLINDERS. A LOGICAL CYLINDER IS THE SMALLEST COLLECTION OF TWO OR MORE TRACKS THAT CAN BE PROCESSED BY A SET FILE MASK CCW (HEXADECIMAL IF). 64 (40) 2 NUMBER OF AVAILABLE BYTES ON A TRACK EXCLUSIVE OF HOME ADDRESS AND RECORD 0. 65 (44) 2 DS4DEVTK NUMBER OF AVAILABLE BYTES ON A TRACK EXCLUSIVE OF HOME ADDRESS AND RECORD 0. 66 (44) 2 DS4DEVTK NUMBER OF AVAILABLE BYTES ON A TRACK EXCLUSIVE OF HOME ADDRESS AND RECORD 0. 67 IF BIT 4 OF THE DEVICE INDICATOR FIELD (OFFSET 71) IS SET TO ONE, THIS FIELD IS USED AS A TWO-BYTE FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. 69 (45) 1 DS4DEVI A COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. 70 (46) 1 DS4DEVI HE NUMBER OF OVERHEAD BYTES OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. THE NUMBER OF OVERHEAD BYTES TO BE SUBTRACTED FROM DEADEVOY, DS4DEVI, OR DS4DEVI IF THE BLOCK HAS N	44	(2C)	1	DS4IDFMT	FORMAT IDENTIFIER - HEXADECIMAL 04.
52 (34) 4 DS4HCCHH CCHH OF NEXT AVAILABLE ALTERNATE TRACK. 56 (38) 2 DS4NOATK NUMBER OF ALTERNATE TRACKS REMAINING. 58 (3A) 1 DS4VTOCI VTOC INDICATORS. 1	45	(2D)	5	DS4HPCHR	
56 (38) 2 DS4NOATK NUMBER OF ALTERNATE TRACKS REMAINING. 58 (3A) 1 DS4VTOCI VTOC INDICATORS. 1	50	(32)	2	DS4DSREC	NUMBER OF AVAILABLE FORMAT 0 DSCBS IN THE VTOC.
1 BITHER NO FORMAT 5 DSCBS EXIST OR THEY DO NOT REFLECT THE TRUE STATUS OF THE VOLUME. 1	52	(34)	4	DS4HCCHH	CCHH OF NEXT AVAILABLE ALTERNATE TRACK.
1 EITHER NO FORMAT 5 DSCBS EXIST OR THEY DO NOT REFLECT THE TRUE STATUS OF THE VOLUME. ACCURATE FORMAT 5 AND 6 DSCBS NOW EXIST AND BIT 0 HAS BEEN TURNED OFF. THIS VOLUME MAY CONTAIN DATA SETS PRODUCED BY THE IBM DISK OPERATING SYSTEM, VS2 ACCESS METHODS MAY NOT BE ABLE TO PROCESS THESE DATA SETS. A DADAM FUNCTION HAS BEEN PREMATURELY TERMINATED. POSSIBLE VTOC ERRORS EXIST. RESERVED BITS. HEXADECIMAL 01 TO INDICATE THAT VTOC IS ONE EXTENT. EXTENT. THE FOLLOWING FIELDS DESCRIBE THE DEVICE ON WHICH THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED DEVICE SIZE. NUMBER OF LOGICAL CYLINDERS. A LOGICAL CYLINDER IS THE SMALLEST COLLECTION OF TWO OR MORE TRACKS THAT CAN BE PROCESSED BY A SET FILE MASK CCW (HEXADECIMAL 1F). NUMBER OF TRACKS PER LOGICAL CYLINDER. MUMBER OF TRACKS PER LOGICAL CYLINDER. NUMBER OF TRACKS PER LOGICAL CYLINDER. PROVIDED BY A SET FILE MASK CCW (HEXADECIMAL 1F). NUMBER OF TRACKS PER LOGICAL CYLINDER. NUMBER OF TRACKS PER LOGICAL CYLINDER. NUMBER OF TRACKS PER LOGICAL CYLINDER. PROVIDED BY THE COUNT OF THE DIMER OF THE PROPERTY OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. THE NUMBER OF OVERHEAD BYTES TO BE SUBTRACTED FROM DATACK. THE NUMBER OF OVERHEAD BYTES TO BE SUBTRACTED FROM DATACK. THE NUMBER OF OVERHEAD BYTES TO BE SUBTRACTED FROM DATACK.	56	(38)	2	DS4NOATK	NUMBER OF ALTERNATE TRACKS REMAINING.
REFLECT THE TRUE STATUS OF THE VOLUME. ACCURATE FORMAT 5 AND 6 DSCBS NOW EXIST AND BIT 0 HAS BEEN TURNED OFF. THIS VOLUME MAY CONTAIN DATA SETS PRODUCED BY THE IBM DISK OPERATING SYSTEM; VS2 ACCESS METHODS MAY NOT BE ABLE TO PROCESS THESE DATA SETS— A DADSM FUNCTION HAS BEEN PREMATURELY. TERMINATED. POSSIBLE VTOC ERRORS EXIST. RESERVED BITS. 1 DS4NOEXT RESERVED. THE FOLLOWING FIELDS DESCRIBE THE DEVICE ON WHICH THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED THE SWALLEST COLLECTION OF TWO OR MORE TRACKS THAT CAN BE PROCESSED BY A SET FILE MASK CCW (HEXADECIMAL 1F). NUMBER OF LOGICAL CYLINDERS. A LOGICAL CYLINDER IS THE SWALLEST COLLECTION OF TWO OR MORE TRACKS THAT CAN BE PROCESSED BY A SET FILE MASK CCW (HEXADECIMAL 1F). NUMBER OF TRACKS PER LOGICAL CYLINDER. (84 (44) 2 DS4DEVOK NUMBER OF AVAILABLE BYTES ON A TRACK EXCLUSIVE OF HOME ADDRESS AND RECORD 0. OVERHEAD BYTES FOR ANY KEYED BLOCK ON THE 2305. IF BIT 4 OF THE DEVICE INDICATOR FIELD (OFFSET 71) IS SET TO ONE, THIS FIELD IS USED AS A TWO-BYTE FIELD CONTAINING A BINARY COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD. 1F THE BIT IS SET TO 0. THE FIELD CONSISTS OF THE FOLLOWING INFORMATION: A COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. 70 (46) 1 DS4DEVL A COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS THE LAST RECORD ON A TRACK. 70 (46) 1 DS4DEVL THE NUMBER OF OVERHEAD BYTES TO BE SUBTRACTED FROM DEADLY OF A SET OF THE NUMBER OF DATE OF A SET OF A RECORD THAT IS THE LAST RECORD ON A TRACK.	58	(3A)	1	DS4VTOCI	VTOC INDICATORS.
BIT 0 HAS BEEN TURNED OFF. THIS VOLUME MAY CONTAIN DATA SETS PRODUCED BY THE IBM DISK OPERATING SYSTEM; VS2 ACCESS METHODS MAY NOT BE ABLE TO PROCESS THESE DATA SETS— A DADSM FUNCTION HAS BEEN PREMATURELY TERMINATED. POSSIBLE VTOC ERRORS EXIST. RESERVED BITS. S9 (3B) 1 DS4NOEXT HEXADECIMAL 01 TO INDICATE THAT VTOC IS ONE EXTENT. 60 (3C) 2 RESERVED. THE FOLLOWING FIELDS DESCRIBE THE DEVICE ON WHICH THIS VOLUME WAS MOUNTED WHEN THE VTOC WAS CREATED 62 (3E) 4 DS4DEVSZ DEVICE SIZE. 62 (3E) 2 NUMBER OF LOGICAL CYLINDERS. A LOGICAL CYLINDER IS THE SWALLEST COLLECTION OF TWO OR MORE TRACKS THAT CAN BE PROCESSED BY A SET FILE MASK CCW (HEXADECIMAL 1F). 64 (40) 2 NUMBER OF TRACKS PER LOGICAL CYLINDER. 66 (42) 2 DS4DEVVK NUMBER OF AVAILABLE BYTES ON A TRACK EXCLUSIVE OF HOME ADDRESS AND RECORD 0. 68 (44) 2 DS4DEVOV OVERHEAD BYTES FOR ANY KEYED BLOCK ON THE 2305. IF BIT 4 OF THE DEVICE INDICATOR FIELD (OFFSET 71) IS SET TO ONE, THIS FIELD IS USED AS A TWO-BYTE FIELD CONTAINING A BINARY COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BYTES OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. 69 (45) 1 DS4DEVL A COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS THE LAST RECORD ON A TRACK. 70 (46) 1 DS4DEVK THE NUMBER OF OVERHEAD BYTES TO BE SUBTRACTED FROM KEY FIELD.					REFLECT THE TRUE STATUS OF THE VOLUME.
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FOLLOWING INFORMATION: 68 (44) 1 DS4DEVI A COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS NOT THE LAST RECORD ON A TRACK. 69 (45) 1 DS4DEVL A COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS THE LAST RECORD ON A TRACK. 70 (46) 1 DS4DEVK THE NUMBER OF OVERHEAD BYTES TO BE SUBTRACTED FROM DS4DEVOV, DS4DEVI, OR DS4DEVL IF THE BLOCK HAS NO KEY FIELD.	68	(44)	2	DS4DEVOV	IF BIT 4 OF THE DEVICE INDICATOR FIELD (OFFSET 71) IS SET TO ONE, THIS FIELD IS USED AS A TWO-BYTE FIELD CONTAINING A BINARY COUNT OF THE NUMBER OF BYTES (OVERHEAD BYTES) OCCUPIED BY THE COUNT
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DS4DEVOV, DS4DEVI, OR DS4DEVL IF THE BLOCK HAS NO KEY FIELD.	69	(45)	1	DS4DEVL	OCCUPIED BY THE COUNT FIELD, GAPS, AND CHECK BITS OF A KEYED RECORD THAT IS THE LAST RECORD ON A
71 (47) 1 DS4DEVFG DEVICE INDICATORS.	70	(46)	1	DS4DEVK	DS4DEVOV, DS4DEVI, OR DS4DEVL IF THE BLOCK HAS NO
	71	(47)	1	DS4DEVFG	DEVICE INDICATORS.

OFFSE	T LE	ENGTH	NAME	DESCRIPTION
		1		RESERVED BITS. THE KEYED RECORD OVERHEAD FIELD DS4DEVI IS USED AS A TWO BYTE FIELD TO SPECIFY THE OVERHEAD REQUIRED BY A KEYED RECORD. THE CCHH OF AN ABSOLUTE ADDRESS IS USED AS A CONTINUOUS BINARY VALUE. THE CCHH OF AN ABSOLUTE ADDRESS IS USED AS FOUR SEPARATE BINARY VALUES. A TOLERANCE FACTOR MUST BE APPLIED TO ALL BUT LAST RECORD ON TRACK.
72	(48)	2	DS4DEVTL	NOTE: IF BITS 5 AND 6 ARE ZERO, THE CC AND HH OF AN ABSOLUTE ADDRESS (CCHHR) ARE USED AS HALFWORD BINARY VALUES. DEVICE TOLERANCE, THE VALUE WHICH, WHEN DIVIDED BY 512, IS USED TO DETERMINE EFFECTIVE LENGTH OF A BLOCK ON A TRACK.
74	(4A)	1	DS4DEVDT	NUMBER OF FULL DSCBS THAT CAN BE CONTAINED ON ONE TRACK(44 BYTE KEY PLUS 96 BYTE DATA LENGTH).
75	(4B)	1	DS4DEVDB	NUMBER OF FULL PDS DIRECTORY BLOCKS THAT CAN BE CONTAINED ON ONE TRACK (8 BYTE KEY PLUS 256 BYTE DATA LENGTH).
76	(4C)	24		RESERVED.
100	(64)	5	DS4F6PTR	POINTER IN THE FORM CCHHR TO THE FIRST FORMAT 6 DSCB. ZEROS WHEN NOT IN USE.
105	(69)	10	DS4VTOCE	VTOC EXTENT. CONTENTS AND MEANING SAME AS DS1EXT1 IN FORMAT 1 DSCB.
115	(73)	25		RESERVED.

Format 5 -- Available Space Data Set Control Block

The available space data set control block (DSCB) describes the amount of available space on the volume that can be allocated to a data set. Up to 26 available extents can be recorded in one format 5 DSCB. Additional extents are described in other format 5 DSCBS. The first format 5 DSCB follows the VTOC (format 4) DSCB.

OFFS	ET LE	NGTH	NAME	DESCRIPTION
0	(0)	4	DS5KEYID	KEY IDENTIFICATION - HEXADECIMAL 05 IN EACH BYTE.
4	(4)	5	DS5AVEXT	DESCRIPTION OF AN EXTENT AVAILABLE FOR ALLOCATION TO A DATA SET.
4	(4)	2		RELATIVE TRACK ADDRESS IN BINARY OF THE FIRST TRACK IN THE EXTENT. THE RELATIVE TRACK ADDRESS IS RELATIVE TO THE FIRST TRACK ON THE VOLUME, WHICH HAS A RELATIVE TRACK ADDRESS OF 0.
6	(6)	2		THE NUMBER IN BINARY OF ENTIRELY UNUSED CYLINDERS IN THIS EXTENT.
8	(8)	1		THE NUMBER IN BINARY OF UNUSED TRACKS IN THE EXTENT IN ADDITION TO THOSE CONTAINED IN THE UNUSED CYLINDERS.
9	(9)	35	DS5EXTAV	SEVEN FIVE-BYTE FIELDS IDENTICAL IN FORMAT TO THE DS5AVEXT FIELD. EACH SET IF IT IS USED DESCRIBES A DIFFERENT EXTENT. THE EXTENTS ARE IN THE ORDER OF THEIR FIRST TRACK ADDRESSES.
44	(2C)	1	DS5FMTID	FORMAT IDENTIFIER - HEXADECIMAL F5.
45	(2D)	90	DS5MAVET	EIGHTEEN FIVE-BYTE FIELDS IDENTICAL IN FORMAT TO THE DS5AVEXT FIELD.
135	(87)	5	DS5PTRDS	THE CCHHR ADDRESS OF THE NEXT FORMAT 5 DSCB IF IT EXISTS. IF NONE EXISTS, THIS FIELD CONTAINS BINARY ZEROS.

Format 6 -- Shared Extent Data Set Control Block

The shared extent data set control block (DSCB) is used for shared cylinder allocation. It describes the extent of space (one or more contiguous cylinders) that are being shared by two or more data sets. Up to 26 extents can be described by one format 6 DSCB. Additional extents are described in other format 6 DSCBs. The format 6 DSCB is pointed to by the VTOC (format 4) DSCB.

OFFS	ET LE	ENGTH	NAME	DESCRIPTION
0	(0)	4	DS6KEYID	KEY IDENTIFICATION - HEXADECIMAL 06 IN EACH BYTE.
4	(4)	5	DS6AVEXT	EXTENT OF SPACE (ONE OR MORE CONTIGUOUS CYLINDERS) THAT IS BEING SHARED BY TWO OR MORE DATA SETS.
4	(4)	2		RELATIVE TRACK ADDRESS OF THE FIRST CYLINDER.
6	(6)	2		NUMBER OF FULL CYLINDERS BEING SHARED.
8	(8)	1		NUMBER OF DATA SETS SHARING THE EXTENT.
9	(9)	35	DS6EXTAV	SEVEN FIVE-BYTE FIELDS IDENTICAL IN FORMAT TO DS6AVEXT. THE FIELDS ARE IN RELATIVE TRACK ADDRESS SEQUENCE.
44	(2C)	1	DS6FMTID	FORMAT IDENTIFIER - HEXADECIMAL F6.
45	(2D)	0	DS6MAVET	EIGHTEEN FIVE-BYTE FIELDS IDENTICAL IN FORMAT TO DS6AVEXT.
135	(87)	5	DS6PTRDS	POINTER IN FORM CCHHR TO NEXT FORMAT 6 DSCB.

Data Set Labels -- Magnetic Tape

The blocks of information that serve as labels for data sets residing on magnetic tape are the data set label 1 and the data set label 2. For IBM standard tapes these blocks are 80 bytes long and are in EBCDIC characters in storage and on nine-track tape, and in BCD characters on seven-track tape.

data set labels 1 and 2, together with user labels (if used), comprise header labels, end-of-volume trailer labels, and end-of-data-set trailer labels. Separate descriptions are presented for data set label 1 and data set label 2.

Tapes recorded in ASCII have different label requirements. These tapes, when created by VS2, follow the conventions of the American National Standards Institute. Significant differences between IBM standard labels and ANS labels are as follows:

- Data set label 2 is optional under American National standards.
- Because of word length requirements of some computer manufacturers, labels longer than 80 characters may be present on ASCII tapes.
- The American National standards do not support seven-track tape; all of their standard labels are recorded in ASCII on nine-track tape.

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Data Set Label 1 -- FL1

Data set label 1 is 80 characters in length and describes the associated data set. This format is used for header labels, end-of-volume trailer labels, and end-of-data-set labels. It is followed by data set label 2. All IBM standard header label groups, end-of-volume trailer label groups, and end-of-data-set trailer label groups must consist of both of these labels. These labels are written in EBCDIC code on nine-track tapes and in BCD code on seven-track tapes. The labels are written in ASCII code on ASCII tapes. All ASCII tapes must be nine-track tapes.

OFFS	ET L	ENGTH	NAME	DESCRIPTION
0	(0)	3	FL1LABI	LABEL IDENTIFIER. HDR - HEADER LABEL, EOV - END-OF-VOLUME TRAILER LABEL, EOF - END-OF-DATA-SET TRAILER LABEL.
3	(3)	1	FL1NO	DATA SET LABEL NUMBER = 1.
4	(4)	17	FL1ID	DATA SET IDENTIFIER.
21	(15)	6	FL1FILSR	DATA SET SERIAL NUMBER, SAME AS CODE THAT APPEARS IN THE VOLSERNO FIELD OF THE INITIAL VOLUME LABEL OF THE FIRST OR ONLY VOLUME OF THE DATA SET OR MULTI-DATA SET AGGREGATE.
27	(1B)	4	FL1VOLSQ	VOLUME SEQUENCE NUMBER, THE VOLUME ON WHICH THE DATA SET IS RECORDED IN RELATION TO THE VOLUME ON WHICH THE DATA SET BEGINS.
31	(1F)	4	FL1FILSQ	THE POSITION OF THE DATA SET RELATIVE TO THE FIRST DATA SET IN A MULTIPLE DATA SET AGGREGATE.
35	(23)	4	FL1GNO	GENERATION NUMBER OF THE DATA SET.
39	(27)	2	FL1VNG	VERSION NUMBER OF THE GENERATION OF THE DATA SET.
41	(29)	6	FL1CREDT	CREATION DATE.
				YEAR AND DAY - IN FORMAT BYYDD. B = BLANK YY = YEAR (00-99) DDD = DAY (001-366)
47	(2F)	6	FL1EXPDT	EXPIRATION DATE IN SAME FORMAT AS DS1CREDT.
53	(35)	1	FL1FSEC	DATA SET SECURITY INDICATOR.
		0000		DATA SET IS NOT SECURITY PROTECTED. FOR AN ASCII TAPE, A SPACE INDICATES THAT THE DATA SET IS NOT SECURITY PROTECTED.
		0001		DATA SET IS SECURITY PROTECTED. FOR AN ASCII TAPE, ANY CHARACTER EXCEPT ONE OR A SPACE PREVENTS ANY ACCESS TO THE DATA SET.
		0011	4	READ WITHOUT PASSWORD.
54	(36)	6	FL1BLKCT	HEADER LABELS: ZEROS. TRAILER LABELS: THE NUMBER OF BLOCKS IN THE DATA SET OR ON THE CURRENT VOLUME OF A MULTI-VOLUME DATA SET.
60	(3C)	13	FL1SYSCD	SYSTEM CODE IDENTIFYING THE PROGRAMMING SYSTEM. ASCII TAPES, CREATED BY THE OPERATING SYSTEM, WILL HAVE "IBM/OS360" WRITTEN IN THE FIRST NINE BYTES OF THIS FIELD.
73	(49)	7		RESERVED. MUST BE RECORDED AS ZEROS.

Data Set Label 2 -- FL2

Data set label 2 immediately follows data set label 1 and is written in the same code as data set label 1. It is 80 characters long and contains information about the data set, in addition to that in data set label 1. On an ASCII tape, data set label 2 is optional during input and required during output.

OFFS	ET	LENGTH	NAME	DESCRIPTION
0	(0)	3	FL2LABI	LABEL IDENTIFIER.
				HDR - HEADER LABELS EOV - END-OF-VOLUME TRAILER LABELS EOF - END-OF-DATA-SET TRAILER LABELS
3	(3)	1	FL2NO	DATA SET LABEL NUMBER = 2.
4	(4)	1	FL2RECFM	RECORD FORMAT.
				F - FIXED LENGTH V - VARIABLE LENGTH U - UNDEFINED LENGTH D - VARIABLE LENGTH (ASCII)
5	(5)	5	FL2BLKL	BLOCK LENGTH. IF FORMAT IS V,U, OR D, THIS VALUE IS THE MAXIMUM BLOCK LENGTH. FOR FORMAT F, IT IS THE BLOCK LENGTH.
10	(A)	5	FL2LRECL	RECORD LENGTH DEPENDING UPON FORMAT.
				FORMAT F: RECORD LENGTH. FORMAT U: ZERO. FORMAT V: UNSPANNED FORMAT - MAXIMUM RECORD LENGTH. SPANNED FORMAT- UP TO 32K BYTES: MAXIMUM RECORD LENGTH. 32K BYTES OR MORE: 999999. FORMAT D: 2048 BYTES MAXIMUM.
15	(F)	1	FL2DEN	TAPE DENSITY FOR 24XX/34XX MAGNETIC TAPE DEVICES.
				EBCDIC VALUE 7-TRACK 9-TRACK 0 200 BPI - 1 556 BPI - 2 800 BPI 800 3 - 1600 BPI
16	(10)	1	FL2FILP	DATA SET POSITION.
				EBCDIC VALUE MEANING 1 VOLUME SWITCH PREVIOUSLY OCCURRED. 0 NO VOLUME SWITCH OCCURRED.
17	(11)	8	FL2JOBD	JOB IDENTIFICATION.
25	(19)	1	FL2JSSP	SLASH (/).
26	(1A)			STEP IDENTIFICATION.
34	(22)	2	FL2TRTCH	TAPE RECORDING TECHNIQUE USED TO CREATE THIS TAPE (SEVEN-TRACK ONLY).
				CB - DATA CONVERSION FEATURE USED. EB - EVEN PARITY USED. TB - BCD TO EBCDIC TRANSLATION REQUIRED. ET - EVEN PARITY AND BCD TO EBCDIC TRANSLATION REQUIRED. BB - ODD PARITY AND NO TRANSLATION REQUIRED. (B = BLANK)
36	(24)	1	FL2CNTRL	PRINTER CONTROL CHARACTER USED TO CREATE DATA SET.
				A - AMERICAN NATIONAL STANDARD CONTROL CHARACTERS M - MACHINE CONTROL CHARACTERS B - RECORDS CONTAIN NO CONTROL CHARACTERS (B = BLANK)
37	(25)	1		RESERVED.

OFFS	ET LE	NGTH	NAME	DESCRIPTION
38	(26)	1	FL2BLKA	BLOCK ATTRIBUTE.
				B - BLOCKED RECORDS. S - SPANNED RECORDS. R - BOTH BLOCKED AND SPANNED RECORDS. B - NEITHER BLOCKED NOR SPANNED RECORDS. (B = BLANK)
39	(27)	41		IBM STANDARD TAPE: RESERVED. MUST BE RECORDED AS SPACES.
39	(27)	11		ASCII TAPE: RESERVED. MUST BE RECORDED AS SPACES.
50	(32)	2	FL2BUFOF	ASCII TAPE: LENGTH OF OPTIONAL BLOCK PREFIX.
52	(34)	28		ASCII TAPE: RESERVED. MUST BE RECORDED AS SPACES.

Event Control Block

The event control block (ECB) is used for communication among various components of the control program, as well as between problem programs and the control program. An ECB is the subject of the WAIT and POST macro instructions.

OFFSET LENGT	<u>'H</u> <u>NAME</u>	DESCRIPTION
0 (0) 4	ECBRB	RB ADDRESS WHILE WAITING FOR EVENT
0 (0) 1	ECBCC ECBWAIT	COMPLETION CODE WAITING FOR COMPLETION OF EVENT
.1	ECBPOST	EVENT HAS COMPLETED
.111 1111		CHANNEL PROGRAM HAS TERMINATED WITHOUT ERROR
.1	ECBPERR	CHANNEL PROGRAM HAS TERMINATED WITH PERMANENT ERROR, OR FOR BTAM - COMPLETED WITH AN I/O ERROR
.11.	ECBDAEA	CHANNEL PROGRAM HAS TERMINATED BECAUSE A DIRECT ACCESS EXTENT ADDRESS HAS BEEN VIOLATED
.11	ECBABEND	I/O ABEND CONDITION OCCURRED FOR ERROR TRANSIENT LOADING TASK
.11	ECBINCPT	CHANNEL PROGRAM HAS BEEN INTERCEPTED BECAUSE OF PERMANENT ERROR ASSOCIATED WITH DEVICE END
		FOR PREVIOUS REQUEST. YOU MAY REISSUE THE INTERCEPTED REQUEST.
.1 1	ECBREPRG	REQUEST ELEMENT FOR CHANNEL PROGRAM HAS BEEN
		MADE AVAILABLE AFTER IT HAS BEEN PURGED.
1 1	ECBEHALT	(ACCESS METHODS OTHER THAN BTAM) ENABLE COMMAND HALTED OR I/O OPERATION
	ECBERALI	PURGED. (BTAM)
.1., 1.1	ECBERPAB	ABNORMAL COMPLETION OF ERP PROCESSING DUE TO
		A CRITICAL ERROR SUCH AS THE PRESENCE OF
1 111:	ECBERPER	INVALID CONTROL BLOCK FIELDS ERROR RECOVERY ROUTINES HAVE BEEN ENTERED
	ECDERPER	BECAUSE OF DIRECT ACCESS ERROR BUT ARE UNABLE
		TO READ HOME ADDRESS OR RECORD 0.
.111	ECBSETEO	SETEOF MACRO WAS ISSUED IN MESSAGE COMMAND
	Toppuopa	PROGRAM (NO WORK UNIT IN WORKAREA) (TCAM)
. . .	ECBDMQDS	CONGESTED DESTINATION MESSAGE QUEUE DATA SET (WRITE ONLY) (TCAM)
.1.1 1		SEQUENCE ERROR (TCAM)
.1.1 .1.		INVALID MESSAGE DESTINATION (TCAM)
.1.11	ECBWKOVR	WORKAREA OVERFLOW (TCAM)
.1.1	. ECBNOMSG	MESSAGE WAS NOT FOUND WHEN READ MACRO WAS ISSUED IN CONJUNCTION WITH POINT MACRO TO RETRIEVE A MESSAGE (TCAM)
1	ECBEOQ	<pre>END-OF-QUEUE CONDITION (NOT END-OF-FILE) (TCAM)</pre>
••••	ECBRAQMT	READ-AHEAD QUEUE EMPTY, BUT DESTINATION QUEUE NOT EMPTY (TCAM)
.1	ECBDTRAQ	DATA IS ON READ-AHEAD QUEUE (TCAM)
1 (1) 3	ECBRBA	ST BLOCK ADDRESS (WHILE AWAITING TION OF AN EVENT)
1 (1) 3	ECBCCC**	OR REMAINDER OF COMPLETION CODE (AFTERION OF THE EVENT)

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
ECBABEND	0 X'43'				
ECBCC	0 (0)				
ECBCCCNT	1 (1)				
ECBDAEA	0 X'42'				
ECBDMQDS	0 X'5C'				
ECBDTRAQ	0 X'40'				
ECBEHALT	0 X'48'				
ECBEOQ	0 X'02'				
ECBERPAB	0 X'4B'				
ECBERPER	0 X'4F'				
ECBINCPT	0 X'44'				
ECBINVMD	0 X'54'				
ECBNOMSG	0 X'50'				
ECBNORM	0 X'7F'				
ECBPERR	0 X'41'				
ECBPOST	0 X'40'				
ECBRAQMT	0 X'01'				
ECBRB	0 (0)				
ECBRBA	1 (1)				
ECBREPRG	0 X'48'				
ECBSEQER	0 X'58'				
ECBSETEO	0 x'70'				
ECBWAIT	0 X'80'				
ECBWKOVR	0 X'52'				
		Eī	ND OF ECB		

Fixed Low Core

Fixed low core is a map of the System/370 permanently assigned storage addresses - locations 0 to 512 (hex 0 to 200).

Also mapped are locations 512 through 724 (hexadecimal locations 200 to 2D4), which are permanently defined storage locations for VS2 software support.

OFFSET		LENGTH NAME		DESCRIPTION
0	(0)	8	FLCIPPSW	IPL PSW
0	(0)	4	FLCRNPSW	RESTART NEW PSW (AFTER IPL)
4	(4)	4		SECOND HALF OF RESTART NEW PSW (IQARIH01)
8	(8)	8	FLCICCW1	IPL CCW1
8	(8)	8	FLCROPSW	RESTART OLD PSW (AFTER IPL)
16	(10)	8	FLCICCW2	IPL CCW2
16	(10)	4	FLCCVT	ADDRESS OF CVT (AFTER IPL) (IEACVT)
20	(14)	4		RESERVED (AFTER IPL)
24	(18)	8	FLCEOPSW	EXTERNAL OLD PSW
32	(20)	8	FLCSOPSW	SVC OLD PSW
40	(28)	8	FLCPOPSW	PROGRAM CHECK OLD PSW
48	(30)	8	FLCMOPSW	MACHINE CHECK OLD PSW
56	(38)	8	FLCIOPSW	INPUT/OUTPUT OLD PSW
64	(40)	8	FLCCSW	CHANNEL STATUS WORD
72	(48)	4	FLCCAW	CHANNEL ADDRESS WORD
76	(4C)	4	FLCCVT2	ADDRESS OF CVT - USED BY DUMP ROUTINES (IEACVT)
80	(50)	4	FLCTIMER	TIMER
84	(54)	4	FLCTRACE	ADDRESS OF TRACE TABLE HEADER
88	(58)	4	FLCENPSW	EXTERNAL NEW PSW
92	(5C)	4		SECOND HALF OF EXTERNAL NEW PSW (IEAQEX00)
96	(60)	4	FLCSNPSW	SVC NEW PSW
100	(64)	4		SECOND HALF OF SVC NEW PSW (IEAQSC00)
104	(68)	4	FLCPNPSW	PROGRAM CHECK NEW PSW
108	(6C)	4		SECOND HALF OF PROGRAM CHECK NEW PSW (IEAQPK00)
112	(70)	4	FLCMNPSW	MACHINE CHECK NEW PSW
116	(74)	4		SECOND HALF OF MACHINE CHECK NEW PSW
120	(78)	4	FLCINPSW	INPUT/OUTPUT NEW PSW
124	(7C)	4		SECOND HALF OF I/O NEW PSW (IEAQIO00)
128	(80°)	4		RESERVED
132	(84)	2		RESERVED - SET TO ZERO
134	(86)	2	FLCEICOD	EXTERNAL INTERRUPTION CODE
136	(88)	1		RESERVED - SET TO ZERO
137	(89)		FLCSVILC FLCSILCB	SVC ILC IN LAST 3 BITS 3-BIT SVC ILC FIELD
138	(8A)	2	FLCSVCN	SVC INTERRUPTION CODE
140	(8C)	1		RESERVED - SET TO ZERO
141	(8D)	111	FLCPIILC FLCPILCB	PROGRAM CHECK ILC IN LAST 3 BITS 3-BIT PROGRAM CHECK ILC FIELD
142	(8E)	2	FLCPICOD	PROGRAM INTERRUPTION CODE
144	(90)	4	FLCTEA	TRANSLATION EXCEPTION ADDRESS
144	(90)	1		RESERVED - SET TO ZERO

OF	FSET	LENGT	H NAME	DESCRIPTION
145	(91)	3	FLCTEAA	TRANSLATION EXCEPTION ADDRESS
148	(94)	1		RESERVED - SET TO ZERO
149	(95)	1	FLCMCNUM	MONITOR CLASS NUMBER
150	(96)	1	FLCPERCD	PROGRAM EVENT RECORDING CODE
151	(97)	1		RESERVED - SET TO ZERO
152	(98)	4	FLCPER	PER ADDRESS
152	(98)	1		RESERVED - SET TO ZERO
153	(99)	3	FLCPERA	PER ADDRESS
156	(9C)	1		RESERVED - SET TO ZERO
157	(9D)	3	FLCMTRCD	MONITOR CODE
160	(AO)	8		RESERVED
168	(8A)	344	FLCMCLA	MACHINE CHECK LOGOUT AREA
168	(8A)	4	FLCCHNID	CHANNEL ID
172	(AC)	4	FLCIOEL	SAME AS FLCIOELA BELOW
172	(AC)	1		RESERVED
173	(AD)	3	FLCIOELA	I/O EXTENDED LOGOUT (IOEL) POINTER
176	(B0)	4	FLCLCL	LIMITED CHANNEL LOGOUT (ECSW)
180	(B4)	2		RESERVED
182	(B6)	1	FLCEXCHN	EXTENDED CHANNEL STATUS
183	(B7)	1	FLCVLDTY	VALIDITY
184	(B8)	4	FLCIOA	I/O ADDRESS
184	(B8)	1		RESERVED
185	(B9)	3	FLCIOAA	I/O ADDRESS
188	(BC)	44		RESERVED
232	(E8)	8	FLCMCIC	MACHINE-CHECK INTERRUPTION CODE
240	(FO)	8		RESERVED
248	(F8)	4	FLCFSA	FAILING STORAGE ADDRESS
248	(F8)	1		ZEROES
249	(F9)	3	FLCFSAA	FAILING STORAGE ADDRESS
252	(FC)	4	FLCRGNCD	REGION CODE
256	(100)	96	FLCFLA	FIXED LOGOUT AREA
352	(160)	32	FLCFPSAV	FLOATING POINT REGISTER SAVE AREA
384	(180)	64	FLCGRSAV	GENERAL REGISTER SAVE AREA
448	(1C0)	64	FLCCRSAV	CONTROL REGISTER SAVE AREA
512	(200)		FLCHDEND	END OF HARDWARE ASSIGNMENTS
512	(200)	8	FLCAPSW	LOW CORE AREA FOR LOADING PSWS
		THI BY	S QUEUE IS F	REQS USED BY THE ASYNCHRONOUS EXIT EFFECTOR. REFERENCED BY THE EXIT EFFECTOR, SVC PURGE, AND BE DEFINED AS ORIGINATING BELOW AN 8K
520	(208)	2		RESERVED FOR GENERATION
522	(20A)	2	FLCIERLC	
522	(20A)	2	FLCAEQA	ADDRESS OF NEXT RQE TO BE DEQUEUED

OF	FSET LEI	NGTI	H NAME	DESCRIPTION
524	(20C)	2	FLCAEQB	ADDRESS OF LAST RQE QUEUED
526	(20E)	2	FLCAEQC	INITIAL VALUE OF AEQA
528	(210)	4	FLCAEQJ	ADDRESS OF NEXT IQE TO BE DEQUEUED
528	(210) 1111 1	1 111	FLCAEQJF FLCAEQJI	FLAG BYTE FLAG TO INDICATE EMPTY QUEUE
529	(211)	3	FLCAEQJA	ADDRESS OF NEXT IQE TO BE DEQUEUED
532	(214)	4	FLCAEQK	ADDRESS OF LAST IQE QUEUED
532	(214) 1111 1	1 111	FLCAEQKF FLCAEQKI	FLAG BYTE FLAG TO INDICATE EMPTY QUEUE
533	(215)	3	FLCAEQKA	ADDRESS OF LAST IQE QUEUED
536	(218)	4	FLCAEQS	ADDRESS OF FIRST SUPERVISOR QUEUE ELEMENT (SQE) ON THE QUEUE
536	(218) 1111 1		FLCAEQSF FLCAEQSI	FLAG BYTE FLAG TO INDICATE EMPTY QUEUE
537	(219)	3	FLCAEQSA	ADDRESS OF FIRST SQE ON THE QUEUE
540	(21C)	4	FLCAEQT	ADDRESS OF LAST SQE ON THE QUEUE
540	(21C)		FLCAEQTF FLCAEQTI	FLAG BYTE FLAG TO INDICATE EMPTY QUEUE
541	(21D)	3	FLCAEQTA	ADDRESS OF LAST SQE ON THE QUEUE
544	(220)	64	FLCSCSAV	REGISTER SAVE AREA FOR SVC FLIH
608	(260)	64	FLCPKSAV	REGISTER SAVE AREA FOR PROGRAM CHECK INTERRUPT HANDLER
672	(2A0)	8	FLCDSSPS	USED BY DSS FOR RESTART OLD PSW
680	(2A8)	4	FLCDSSAV	USED BY RESTART INTERRUPT HANDLER AND DSS
684	(2AC)	4	FLCDSSPF	ADDRESS OF PART II OF PREFIX INTERRUPT HANDLER (IQAPFC00)
688	(2B0)	4	FLCDSSRD	ADDRESS OF RESTART INTERRUPT ROUTINE FOR DSS (IQAPFCRT)
692			FLCDSSFL	DSS FLAG BYTE
			FLCDSSRT FLCDSSVM	RESTART INTERRUPT OUTSTANDING IF ZERO, VS VM CURRENT IF ONE, DSS VM
	1		FLCDSSDT	CURRENT DSS TRANSLATION SPECIFICATION WHILE OPERATING UNDER VS VM
	1 .		FLCDSSOI	DSS EXECUTING AN OVERLAID INSTRUCTION
	1		FLCDSSRE FLCDSSEN	DSS RECURSION FLAG DSS PREFIX INTERRUPT HANDLER ENTRY FLAG
	• • • • •		FLCDSSEN	VS TRANSLATION SPECIFICATION
	••••	1	FLCDSSSP	IF ZERO, PROGRAM INTERRUPT IF ONE, SVC INTERRUPT
693	(2B5)	3		RESERVED
696	(2B8)	8	FLCDSSRP	VS RESUME PSW OR DSS RESUME PSW FOR PAGING
704	(2C0)	8	FLCDSSVC	SAVE AREA FOR SVC OLD PSW
712	(2C8)	12	FLCSAV	LOW CORE WORK AREA

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
AEQA AEQB AEQC AEQJ AEQK AEQS AEQT EXCODE EXNPSW EXCOPSW FLCAEQA FLCAEQJ FLCAEQJ FLCAEQJ FLCAEQJ FLCAEQJ FLCAEQJ FLCAEQK FLCAEQK FLCAEQK FLCAEQK FLCAEQK FLCAEQK FLCAEQK FLCAEQT FLCAEQS FLCAEQS FLCAEQS FLCAEQT		FLCCVT2 FLCDSSAT FLCDSSAT FLCDSSDT FLCDSSPF FLCDSSPF FLCDSSRD FLCDSSRD FLCDSSRP FLCDSSRP FLCDSSRP FLCDSSRP FLCDSSVC FLCDSSVM FLCEICOD FLCENPSW FLCEOPSW FLCEOPSW FLCEFSA FLCFSA FLCFSA FLCFSA FLCFSA FLCFSA FLCGRSAV FLCHDEND FLCICCW2 FLCICERLC FLCINPSW FLCIOA FLCIOA FLCIOA FLCIOBL FLCHOPSW FLCHOPSW FLCHOPSW FLCROPSW FLCROPSW FLCROPSW FLCROPSW FLCSCSAV FLCSCSAV FLCSCSAV FLCSCSAV		FLCSNPSW FLCSOPSW FLCSVCN FLCSVILC FLCTEA FLCTEAA FLCTIMER FLCTRACE FLCVLDTY IEAEND IEAPKSAV IEASAV IEASCSAV IECIERLC IONPSW IOOPSW IPLPSW MCNPSW MCOPSW PICODE PIILC PINPSW PIOPSW SVCILC SVCNPSW SVCNUM SVCOPSW TIMER	
		EN	D OF FLC		

Interruption Control Block

The interruption control block (ICB) is created by the OPEN routines when chained channel-program scheduling has been specified. The ICB is used by the access method routines and is always pointed to by an IOB or another ICB.

OFFS	ET L	ENGTH	NAME	DESCRIPTION
0	(0)	4	ICBICBA	ADDRESS OF THE NEXT ICB. THE LAST ICB POINTS TO THE FIRST ICB.
4	(4)	4	ICBECB	EVENT CONTROL BLOCK. SHOWS THE STATUS OF AN I/O OPERATION.
8	(8)	1	ICBFLAG1	FLAG BYTE 1.
	01 10 1111	1		NO CHAINING (SEE NOTE). COMMAND CHAINING (SEE NOTE). DATA CHAINING (SEE NOTE). BOTH COMMAND AND DATA CHAINING (SEE NOTE). ERROR ROUTINE IS IN CONTROL. DEVICE IS TO BE REPOSITIONED. TAPE: CYCLIC REDUNDANCY CHECK (CRC) NEEDED. EXCEPTIONAL CONDITION. IF THIS BIT IS ON AFTER CONTROL HAS BEEN RETURNED FROM THE ERROR ROUTINE, THE ERROR IS CONSIDERED PERMANENT. IOB UNRELATED (I.E., NONSEQUENTIAL). START. RESTART. ROTE: CHAINED CHANNEL-PROGRAM SCHEDULING DOES NOT DEPEND ON THESE BITS TO PERFORM ITS CHAINING.
9	1	1 xxx.		FLAG BYTE 2. HALT I/O HAS BEEN ISSUED. SENSE WILL NOT BE PERFORMED UNTIL THE DEVICE FREE. IOB HAS BEEN PURGED. HOME ADDRESS (R0) RECORD IS TO BE READ. I/O SUPERVISOR INTERNAL ERROR CORRECTION FLAGS. QSAM ERROR RECOVERY ROUTINE IN CONTROL FOR A 2540 CARD PUNCH WITH THREE BUFFERS.
10	(A)	1	ICBSENS0	FIRST SENSE BYTE (DEVICE-DEPENDENT).
11	(B)	1	ICBSENS1	SECOND SENSE BYTE (DEVICE-DEPENDENT).
12	(C)	4	ICBECBPT	ADDRESS OF THE ECB TO BE POSTED UPON COMPLETION OF THIS CHANNEL PROGRAM SEGMENT.
16	(10)	1	ICBFLAG3	FLAGS FOR I/O SUPERVISOR ERROR ROUTINE (DEVICE-DEPENDENT).
17	(11)	7	ICBCSW	LOW ORDER 7 BYTES OF THE LAST CSW. SHOWS CHANNEL STATUS FOR THIS REQUEST.
24	(18)	4	ICBSTART	ADDRESS OF THE CHANNEL PROGRAM TO BE EXECUTED.
28	(1C)	2	ICBINCAM	CONSTANT USED TO INCREMENT THE BLOCK COUNT FOR MAGNETIC TAPE. ALWAYS ZERO FOR DASD.
30	(1E)	2	ICBINDIC	INDICATORS.
30	(1E)	1		BYTE 1.
		xxxx		SPECIAL VOLUME FULL INDICATOR SIGNIFYING END-OF-TAPE MARK OR REFLECTIVE SPOT SENSED ALONG WITH A READ OR WRITE ERROR. RESERVED BITS. ALWAYS ZERO.
31	(1F)	1		RESERVED.
32	(20)	8	ICBSEEK	DASD ONLY: SEEK INFORMATION.
32	(20)	1		NUMBER OF THE DEB EXTENT TO BE USED FOR THIS REQUEST. THE FIRST EXTENT IS NUMBER ZERO.
33	(21)	7		THE SEEK ADDRESS FOR THIS I/O REQUEST.

Input/Output Block

The input/output block (IOB) is the communication medium between a routine that requests an I/O operation and the I/O supervisor. All the information required by the I/O supervisor to execute an I/O operation is contained in the IOB.

The IOB format falls into three segments whose use varies mainly by access method:

Prefix -

- GAM, QISAM.
- BSAM, QSAM, BPAM -- Normal scheduling.
- BSAM, QSAM, BPAM -- Chained scheduling.
- BDAM.

Standard fields -

• Displacements 0-31 decimal (0-1F hexadecimal).

Extension -

- BTAM.
- GAM.
- · Direct access storage devices.
- BSAM, QSAM, BPAM.
- QISAM, scan mode.
- BISAM.
- BDAM.

```
OFFSET
           LENGTH NAME
                               DESCRIPTION
             PREFIX SECTIONS OF THE IOB
-16 (-10)
                  IOBPREFX
          QSAM, BSAM, BPAM PREFIX
          CHAINED SCHEDULING -- 16 BYTES
-16 (-10)
                  IOBCFLG1
                               FLAG BYTE
                   IOBRSV01
                               RESERVED
       1...
        .1.. ....
                   IOBRSV02
                               RESERVED
        ..1. ....
                   IOBRSV03
                               RESERVED
        . . . 1
                   IOBRSV04
                               RESERVED
             . . . .
                               NOTE OR POINT OPERATION IS IN PROCESS
        . . . . 1 . . .
                   IOBPTST
        . . . . . 1 . .
                   IOBABAPP
                               ERROR PROCESSED ONCE BY ABMORMAL-END
                               APPENDAGE
       .... ..1.
                   IOBRSTCH
                               RESTART CHANNEL
       .... ...1
                   IOBPCI
                               PCI INTERRUPT HAS OCCURRED
-15
      (-F)
               1
                  IOBRSV05
                               RESERVED
-14
      (-E)
                  IOBCINOP
                               OFFSET OF LAST I/O COMMAND FOR INPUT
               1
                               OPERATION(NOP CCW) FROM THE ORIGIN
                               OFFSET OF LAST I/O COMMAND FOR OUTPUT
-13
      ( -D)
               1
                  IOBCONOP
                               OPERATION(NOP CCW) FROM THE ORIGIN
                               EVENT CONTROL BLOCK
-12
      (-C)
               4
                  IOBCECB
 -8
               4
                  IOBCICB
                               ADDR.OF FIRST QUEUE
      (-8)
 -4
      (-4)
               4
                  IOBCNOPA
                               ADDR.OF NOP COMMAND AT END OF QUEUE
       QSAM, BSAM, BPAM PREFIX
       NORMAL SCHEDULING -- 8 BYTES
 -8
      (-8)
               4
                  IOBNIOBA
                               ADDR.NEXT IOB ON CHAIN
 -8
      (-8)
               1
                  IOBNFLG1
                               FLAG BYTE
                               'PRTOV' HAS OCCURRED
       1... ....
                   IOBPRTOV
                               'WRITE' OPERATION IN PROCESS
        .1.. ....
                   IOBWRITE
                               'READ' OPERATION IN PROCESS
                   IOBREAD
        . . 1 . . . . . .
                               BLOCK IS TO BE UPDATED
                   IOBUPDAT
        . . . 1 . . . .
                   IOBBKSPC
                               IOB BEING USED FOR
        . . . . 1 . . .
                               BACKSPACE, CONTROL, NOTE/PT.
       . . . . 1 . .
                   IOBSPAN
                               THIS RECORD IS A SPANNED RECORD
       .... ..1.
                   IOBRSV06
                               RESERVED
       .... 1
                   IOBFIRST
                               THIS IS FIRST IOB ON CHAIN
 -7
      (-7)
               3 IOBNIOBB
                               ADDR.NEXT IOB ON CHAIN
 -4
      (-4)
               4
                  IOBNECB
                               EVENT CONTROL BLOCK
        BDAM PREFIX -- 8 BYTES
                               ADDR.OF IOB WAITING TO DEQUEUE TRACKS
 -8
      (-8)
               4
                  IOBDQADA
                               OCCUPIED BY SPANNED RECORDS
 -8
      (-8)
               1
                  IOBDEQIN
                               DEQUEUE LOOP INDICATOR
        1... ....
                   IOBDEO
                               TASK WITH SPANNED RECORD BEING DEQUEUED
                               RESERVED
        .1.. ....
                   IOBRSV07
                   IOBRSV08
                               RESERVED
        ..1. ....
        ...1 ....
                   IOBRSV09
                               RESERVED
                   IOBRSV10
                               RESERVED
        . . . . 1 . . .
            .1..
                   IOBRSV11
                               RESERVED
            ..1.
                   IOBRSV12
                               RESERVED
                   IOBRSV13
                               RESERVED
        . . . . . . . . 1
 -7
      (-7)
               3
                  IOBDQADB
                               ADDR.OF IOB WAITING TO DEQUEUE TRACKS
                               OCCUPIED BY SPANNED RECORDS
 -4
      (-4)
               4
                  TORSWAP
                               ADDR.OF SPANNED WORK AREA
```

OFFSET LENGTH NAME DESCRIPTION GAM, BISAM PREFIX -- 4 BYTES -4 (-4) 4 IOBGQECB EVENT CONTROL BLOCK STANDARD SECTION OF THE IOB

	STANDA	ARD SECTION	N OF THE IOB
+0	(0)	OBSTDRD	
+0	1	OBFLAG1 IOBDATCH IOBCMDCH IOBERRTN IOBRYSTN IOBCYCCK IOBFCREX IOBIOERR IOBUNREL	FLAG BYTE DATA CHAINING USED IN CHANNEL PROGRAM COMMAND CHAINING USED IN CHANNEL PROGRAM ERROR ROUTINE IS IN CONTROL DEVICE IS TO BE REPOSITIONED CYCLIC REDUNDANCY CHECK NEEDED(TAPE ONLY) FETCH COMMAND RETRY EXIT (DIRECT ACCESS ONLY) I/O ERROR HAS OCCURRED THIS I/O REQUEST IS UNRELATED(NON-SEQUENTIAL)
	1	IOBRSTRT	RESTART ADDR.IN IOB TO BE USED
+1	1	OBFLAG2 IOBHALT	FLAG BYTE HALT I/O HAS BEEN ISSUED BY SVC PURGE ROUTINE
	.1	IOBSENSE	ISSUE SENSE COMMAND AFTER DEVICE END OCCURS
	1	IOBPURGE IOBRDHAO IOBALTTR	IOB HAS BEEN PURGED *ALLOW I/O TO QUIESCE HOME ADDRESS TO BE READ * NO SEEK NEEDED NO TEST FOR OUT-OF-EXTENT * AN ALTERNATE TRACK IS IN USE
	1	IOBSKUPD	SEEK ADDRESS IS BEING UPDATED -CYLINDER END OR FILE MASK VIOLATION HAS OCCURRED
	1.	IOBSTATO	DEVICE END STATUS HAS BEEN ORED WITH CHANNEL END STATUS - GRAPHICS DEVICE
	1	IOBPNCH	TURNED ON BY QSAM WHEN ERROR RECOVERY IS TO BE PROVIDED FOR THE 2540 CARD PUNCH
+2	1 .1 .1 1 1 1	OBSENSO IOBSOB0 IOBSOB1 IOBSOB2 IOBSOB3 IOBSOB4 IOBSOB5 IOBSOB6 IOBSOB7 IOBSNSC9	FIRST SENSE BYTE BIT 0 (DEVICE DEPENDENT) BIT 1 (DEVICE DEPENDENT) BIT 2 (DEVICE DEPENDENT) BIT 3 (DEVICE DEPENDENT) BIT 4 (DEVICE DEPENDENT) BIT 5 (DEVICE DEPENDENT) BIT 6 (DEVICE DEPENDENT) BIT 7 (DEVICE DEPENDENT) CHANNEL 9 SENSED IN CARRIAGE TAPE
+3	1 .1 1 1 1	OBSENS1 IOBS1B0 IOBS1B1 IOBS1B2 IOBS1B3 IOBS1B4 IOBS1B5 IOBS1B6 IOBS1B7	SECOND SENSE BYTE BIT 0 (DEVICE DEPENDENT) BIT 1 (DEVICE DEPENDENT) BIT 2 (DEVICE DEPENDENT) BIT 3 (DEVICE DEPENDENT) BIT 4 (DEVICE DEPENDENT) BIT 5 (DEVICE DEPENDENT) BIT 6 (DEVICE DEPENDENT) BIT 7 (DEVICE DEPENDENT)
+4	(4) 4 I	ОВЕСВРТ	ADDRESS OF ECB TO BE POSTED ON I/O COMPLETION
+4	(4) 1 I	OBECBCC	COMPLETION CODE FOR THIS I/O REQUEST
+5	(5) 3 I	ОВЕСВРВ	ADDRESS OF ECB TO BE POSTED ON I/O COMPLETION

<u>OF</u> I	SET	LENGT	H NAME	DESCRIPTION		
+8	(8)	1	IOBFLAG3	ERROR ROUTINE FLAG BYTE		
+9	(9)	7	IOBCSW	LOW ORDER 7 BYTES OF CSW AT CHANNEL END		
+16	(10)	4	IOBSTART	ADDRESS OF CHANNEL PROGRAM		
+16	(10)	1	IOBSIOCC	BITS 2 AND 3 = C.C. FROM SIO		
+17	(11)	3	IOBSTRTB	ADDRESS OF CHANNEL PROGRAM		
+20	(14)	4	IOBDCBPT	ADDRESS OF DATA CONTROL BLOCK FOR THIS IOB		
+20	(14)	1	IOBRSV36	RESERVED		
+21	(15)	3	IOBDCBPB	ADDRESS OF DATA CONTROL BLOCK FOR THIS IOB		
+24	(18)	4	IOBRESTR	RESTART ADDRESS FOR ERROR RETRY		
+24	(18)	1	IOBREPOS	CODE USED TO REPOSITION DEVICE		
+25	(19)	3	IOBRSTRB	RESTART ADDRESS FOR ERROR RETRY		
+28	(1C)	2	IOBINCAM	VALUE USED TO INCREMENT BLOCK COUNT ON TAPE		
+28			IOBBTAMF IOBPRMER	FLAG BYTE FOR BTAM 'SAD','ENABLE' ISSUED BY OPEN CAUSED I/O		
	1		IOBINUSE IOBRSV14 IOBRSV15 IOBRSV16 IOBRSV17 IOBRFTMG	ERROR IOB IS IN USE RESERVED RESERVED RESERVED RESERVED INDICATES A REQUEST-FOR-TEST MESSAGE FROM A REMOTE 3270 LINE IS UNDER ON-LINE TEST OPERATION		
+29	(1D)		IOBRSV19	RESERVED		
+28	(1C)		IOBCRDCC	OPTICAL READER: DATA CHECK ERROR COUNT		
+29	(1D)		IOBCRILC	OPTICAL READER: INCORRECT LENGTH ERROR COUNT		
+30	(1E)	2	IOBERRCT	NUMBER OF ERROR RETRIES		
		EXT	ENSION SECTI	ONS OF THE IOB		
		DIR	ECT ACCESS E	XTENSION 8 BYTES		
+32	(20)	8	IOBSEEK			
+32	(20)	1	IOBM	RELATIVE EXTENT NUMBER FOR THIS REQUEST(0-15)		
+33	(21)	2	IOBBB	BIN NUMBER(DATA CELL)*		
+33	(21)	1	IOBBB1			
+34	(22)	1	IOBBB2			
+35	(23)	2	IOBCC	CYLINDER NUMBER		
+35	(23)	1	IOBCC1			
+36	(24)	1	IOBCC2			
+37	(25)	2	ІОВНН	TRACK NUMBER		
+37	(25)	1	IOBHH1			
+38	(26)	1	ІОВНН2			
+39	(27)	1	IOBR	RECORD NUMBER		

OFF	SET	LENGTH	H NAME	DESCRIPTION
		BTA	AM EXTENSION	40 BYTES + CHNL.PGM
+32	(20)	1	IOBUCBX	LINE NUMBER IS USED TO LOCATE THE PROPER UCB ADDRESS IN THE DEB.
+33	(21)	5	IOBWORK	WORK AREA USED BY ERROR ROUTINES AND ON-LINE TERMINAL ROUTINES
+38	(26)	1	IOBRCVPT	RECEIVED ACK (ACK-0 OR ACK-1)
+39	(27)	1	IOBSNDPT	SENT ACK (ACK-0 OR ACK-1)
+40	(28)	8	IOBERCCW	CCW AREA USED BY BTAM ERROR ROUTINES
+48	(30)	16	IOBERINF	ERROR INFORMATION FIELD USED BY BTAM ERROR RTN
+64	(40)	8	IOBCPA	AREA FOR CHANNEL PROGRAMS. LENGTH VARIES ACCORDING TO TERMINAL AND OPTIONS
		BIS	SAM EXTENSION	N 16 BYTES
+40	(28)	4	IOBCCWAD	FOR FIXED LENGTH RCRDS:PTR.TO FIRST CCW FOR VARIABLE RECORDS:PTR.TO BUFFER(DYNAMIC BUFFERING SPECIFIED)AFTER COMPLETION OF READ FOR UPDATE(READ KU)
+44			IOBINDCT	FLAG BYTE
	1		IOBDEQCP IOBUNSCH	DEQUEUE CHANNEL PROGRAM FROM QUEUE UNSCHEDULER QUEUE
			IOBOVPTR	PTR.TO OVERFLOW RECORD INDICATOR: BIT = 0 MEANS 'DECBAREA' + 6 POINTS TO OVERFLOW RECORD DATA BIT = 1 MEANS 'DCBMSWA' POINTS TO
	•••	1	IOBKEYAD	OVERFLOW RECORD KEY FOLLOWED BY DATA PTR.TO OVERFLOW RECORD KEY INDICATOR: BIT = 0 MEANS 'DECBKEY' POINTS TO OVERFLOW RECORD KEY BIT = 1 MEANS 'DCBMSWA' + 8 POINTS TO
	• • • •	. 1	IOBRSV27	OVERFLOW RECORD KEY RESERVED
			IOBRSV28	RESERVED
		1	IOBRSV29 IOBCHNNL	RESERVED CHANNEL END STATUS INDICATOR: BIT = 0 MEANS NORMAL CHANNEL END OCCURRED BIT = 1 MEANS ABNORMAL END OCCURRED
+45			IOBUNSQR	
			IOBCPBSY IOBNTAV1	CHANNEL PROGRAM CP1 OR CP2 BUSY NO CP4,CP5 OR CP6 AVAILABLE
	1.		IOBNTAV2	NO CP7 AVAILABLE
	•••	1	IOBKNWR	WRITE KN IS IN EFFECT(UNSCHEDULED IOB IS FOR WRITE KN)
		. 1	IOBKNRWR	WRITE KN IS IN EFFECT(UNSCHEDULED IOB IS FOR READ OR WRITE KN)
		1 1. 1	IOBRSV30 IOBRSV31 IOBRSV32	RESERVED RESERVED RESERVED
+46	(2E)	1	IOBAPP	APPENDAGE CODE
+47	(2F)	1	IOBASYN	ASYNCHRONOUS ROUTINE CODE
+48	(30)	4	IOBFCHAD	FORWARD CHAIN ADDRESS
+48	(30)	1	IOBCOUNT	WRITE CHECK COUNTER
+49	(31)	3	IOBFCHNB	FORWARD CHAIN ADDRESS
+52	(34)	4	IOBBCHAD	BACKWARD CHAIN ADDRESS
		G A l	M EXTENSION	40 BYTES
+32	(20)	1	IOBUCBXG	UCB INDEX

OFI	FSET	LENGTH	NAME	DESCRIPTION
+33	(21)	3	IOBRSV37	RESERVED
+36	(24)	4	IOBNXTPT	PTR.TO NEXT AVAILABLE IOB ZERO IF LAST IOB
+36	1	• • • •	IOBSTATA IOBAVLFL IOBRSV20	STATUS SWITCH IF BIT IS 0,IOB IS AVAILABLE IF BIT IS 1,IOB IS NOT AVAILABLE RESERVED
		1	IOBRSV20 IOBRSV21 IOBRSV22 IOBRSV23 IOBRSV24 IOBRSV25 IOBRSV26	RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
+37	(25)	3	IOBNXTPB	PTR.TO NEXT AVAILABLE IOB ZERO IF LAST IOB
+40	(28)	32	IOBCCW	CHANNEL COMMAND WORDS USED TO TRANSFER
		QIS	AM EXTENSION	N 2 BYTES
+40	(28)	2	W1IEXTEN	APPENDAGE
+40	(28)	2	W1OEXTEN	CODES
		BDA	M EXTENSION	40 BYTES + CHNL.PGM
+40	(28)	2	IOBDBYTR	NUMBER OF UNUSED BYTES ON TRACK
+42	(2A)	2	IOBDIOBS	OVERALL SIZE OF THE IOB
+44	(2C)	4	IOBDPLAD	ADDRESS OF NEXT IOB IN POOL OF IOB'S
+44	(2C)	1	IOBDAYLI	ALL BITS ZERO INDICATE AVAILABILITY OF IOB
+45	(2D)	3	IOBDPLB	ADDRESS OF NEXT IOB IN POOL OF IOB'S
+48	.1		IOBDTYPE IOBVERFY IOBOVFLO IOBEXTSC IOBFDBCK IOBACTAD IOBDYNBF IOBRDEXC IOBRELBL	TYPE OF REQUEST AND SPECIFIED OPTIONS VERIFY OVERFLOW EXTENDED SEARCH FEEDBACK ACTUAL ADDRESSING DYNAMIC BUFFERING READ EXCLUSIVE RELATIVE BLOCK ADDRESSING
+49	1		IOBDTYP2 IOBSKEY IOBSBLKL IOBSUFFX IOBRQUST IOBTYPE IOBADDTY	SECOND BYTE OF OPTIONS AND REQUESTS KEY ADDRESS CODED AS 'S' BLOCK LENGTH CODED AS 'S' INDICATES TYPE OF SUFFIX('R' OR 'RU') BIT = 1 MEANS READ; BIT = 0 MEANS WRITE; BIT = 1 MEANS KEY TYPE BIT = 0 MEANS ID TYPE ADD TYPE
	• • • •	1	IOBRELEX	RELEX MACRO ISSUED
+50			IOBDSTAT	STATUS OF THE REQUEST
+50	1		IOBNEWVL	FLAG BYTE ABNORMAL COMPLETION ON EXTENDED SEARCH, THE NEXT EXTENT IS ON A NEW VOLUME. THE ASI ROUTINE MUST ISSUE THE EXCP MACRO; END OF EXTENT APPENDAGE CANNOT. DESCRIPTION
				RESERVED ON EXTENDED SEARCH, INDICATES TO RELATIVE BLOCK CONVERSION ROUTINE THAT SECOND PASS OF A TWO-PASS CONV.ROUTINE HAS COMPLETED

OFF	SET L	ENGT	H NAME	DESCRIPTION
		.1	IOBBUFF IOBADDVU	RECORD ENQUEUED(EXCLUSIVE CONTROL REQUEST) BUFFER ASSIGNED TO THIS IOB V OR U TYPE RECORD BEING ADDED TO DATA SET INDICATES TO DYNAMIC BUFFERING ROUTINE THAT IT WAS ENTERED FROM, AND IS TO RETURN TO, THE START I/O APPENDAGE MODULE
+51	(33)	1	IOBSTAT2	ERROR CODE FOR ABNORMAL COMPLETION USED AS POST CODE IN ECB
+52	(34)	4	IOBDCPND	ADDRESS OF LOCATION WHERE CHANNEL END PROGRAM SHOULD END
+56	(38)	2	IOBDBYTN	NUMBER OF BYTES NEEDED ON A TRACK TO WRITE A NEW BLOCK
+58	(3A)	2	IOBRSV34	RESERVED
+60	(3C)	4	IOBDQPTR	PTR.TO IOB FOR NEXT I/O OPERATION TO EXECUTE
+64	(40)	8	IOBRSV35	RESERVED
+72	(48)	8	IOBDNCRF	COUNT FIELD FOR NEW BLOCK
+80	(50)	8	IOBCHNPR	CHANNEL PROGRAM
		NE	W ACCESS MET	CHOD EXTENSION 24 BYTES
+40	(28)	8	IOBSEEK2	SEEK FIELD 2
+40	(28)	1	IOBSK2M	EXTENT NUMBER
+41	(29)	2	IOBSK2BB	BIN NUMBER
+43	(2B)	2	IOBSK2CC	CYLINDER NUMBER
+45	(2D)	2	IOBSK2HH	HEAD NUMBER
+47	(2F)	1	IOBSK2R	RECORD NUMBER
+48	(30)	4	IOBBUFC	ADDRESS OF ASSOCIATED BUFFER CONTROL BLOCK
+52	(34)	4	IOBREADA	ADDRESS OF FIRST UNDONE READ CHANNEL PROGRAM SEGMENT
+56	(38)	4	IOBNEXTA	ADDRESS OF NEXT ACTIVE IOB
+60	(3C)	4	IOBRDCHP	ADDRESS OF READ CHANNEL PROGRAM

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
IOBABAPP	-16 X'04'	IOBDSTAT	+50 (32)	IOBRDCHP	+60 (3C)
IOBABNRM	+50 X'80'	IOBDTYPE	+48 (30)	IOBRDEXC	+48 X'02'
IOBACTAD	+48 X'08'	IOBDTYP2	+49 (31)	IOBRDHA0	+1 X'10'
IOBADDTY	+49 X'02'	IOBDYNBF	+48 X'04'	IOBREAD	-8 X'20'
IOBADDVU	+50 X'02'	IOBECBCC	+4 (4)	IOBREADA	+52 (34)
IOBALTTR	+1 X'08'	IOBECBPB	+5 (5)	IOBRELBL	+48 X'01'
IOBAPP	+46 (2E)	IOBECBPT	+4 (4)	IOBRELEX	+49 X'01'
IOBASYN	+47 (2F)	IOBENQUE	+50 X'08'	IOBREPOS	+24 (18)
IOBAVLFL	+36 X'80'	IOBERCCW	+40 (28)	IOBRESTR	+24 (18)
IOBBB	+33 (21)	IOBERINF	+48 (30)	IOBRFTMG	+28 X'02'
IOBBB1	+33 (21)	IOBERRCT	+30 (1E)	IOBRPSTN	+0 X'10'
IOBBB2	+34 (22)	IOBERRTN	+0 X'20'	IOBRQUST	+49 X'08'
IOBBCHAD	+52 (34)	IOBEXTEN	+32 (20)	IOBRSTCH	-16 X'02'
		IOBEXTSC	+48 X'20'	IOBRSTRB	+25 (19)
IOBBKSPC	-8 X'08'	IOBFCHAD	+48 (30)	IOBRSTRT	+0 X'01'
		IOBFCHNB	+49 (31)	IOBRSV01	-16 X'80'
		IOBFCREX	+0 X'08'	IOBRSV02	-16 X'40'
		IOBFDBCK	+48 X'10'	IOBRSV03	-16 X'20'
TODDUME	+28 (1C)	IOBFIRST IOBFLAG1	-8 X'01' +0 (0)	IOBRSV04 IOBRSV05	-16 X'10'
IOBBTAMF IOBBUFC	+48 (30)	IOBFLAG1	+0 (0)	IOBRSV05	-15 (-F) -8 X'02'
IOBBUFF	+50 X'04'	IOBFLAG2	+8 (8)	IOBRSV07	-8 X'40'
IOBCC	+35 (23)	IOBGQECB	-4 (-4)	IOBRSVO7	-8 X'20'
IOBCCW	+40 (28)	IOBHALT	+1 X'80'	IOBRSV09	-8 X'10'
IOBCCWAD	+40 (28)	IOBHH	+37 (25)	IOBRSV10	-8 X'08'
IOBCC1	+35 (23)	IOBHH1	+37 (25)	IOBRSV11	-8 X'04'
IOBCC2	+36 (24)	IOBHH2	+38 (26)	IOBRSV12	-8 X'02'
IOBCECB	-12 (-C)	IOBINCAM	+28 (1C)	IOBRSV13	-8 X'01'
IOBCFLG1	-16 (-10)	IOBINDCT	+44 (2C)	IOBRSV14	+28 X'20'
IOBCHNNL	+44 X'01'	IOBINUSE	+28 X'40'	IOBRSV15	+28 X'10'
IOBCHNPR	+80 (50)	IOBIOERR	+0 X'04'	IOBRSV16	+28 X'08'
IOBCICB	-8 (-8)	IOBKEYAD	+44 X'10'	IOBRSV17	+28 X'04'
IOBCINOP	-14 (-E)	IOBKNRWR	+45 X'08'	IOBRSV19	+29 (1D)
IOBCMDCH	+0 X'40'	IOBKNWR	+45 X'10'	IOBRSV20	+36 X'40'
IOBCNOPA	-4 (-4)	IOBM	+32 (20)	IOBRSV21	+36 X'20'
IOBCONOP	-13 (-D)	IOBNECB	-4 (-4)	IOBRSV22	+36 X'10'
IOBCOUNT	+48 (30)	IOBNEWVL IOBNEXTA	+50 X'40'	IOBRSV23	+36 X'08'
IOBCPA IOBCPBSY	+64 (40) +45 X ' 80 '	IOBNEATA	+56 (38) -8 (-8)	IOBRSV24 IOBRSV25	+36 X'04' +36 X'02'
IOBCRDCC	+28 (1C)	IOBNIOBA	-8 (-8)	IOBRSV25	+36 X'01'
IOBCRILC	+29 (1D)	IOBNIOBB	-7 (-7)	IOBRSV27	+44 X'08'
IOBCSW	+9 (9)	IOBNTAV1	+45 X'40'	IOBRSV28	+44 X'04'
IOBCYCCK	+0 X'08'	IOBNTAV2	+45 X'20'	IOBRSV29	+44 X'02'
IOBDATCH	+0 X'80'	IOBNXTPB	+37 (25)	IOBRSV30	+45 X'04'
·IOBDAYLI	+44 (2C)	IOBNXTPT	+36 (24)	IOBRSV31	+45 X'02'
IOBDBYTN	+56 (38)	IOBOLTST	+28 X'01'	IOBRSV32	+45 X'01'
IOBDBYTR	+40 (28)	IOBOVFLO	+48 X'40'	IOBRSV33	+50 X'20'
IOBDCBPB	+21 (15)	IOBOVPTR	+44 X'20'	IOBRSV34	+58 (3A)
IOBDCBPT	+20 (14)	IOBPASS2	+50 X'10'	IOBRSV35	+64 (40)
IOBDCPND	+52 (34)	IOBPCI	-16 X'01'	IOBRSV36	+20 (14)
IOBDEQ	-8 X'80' +44 X'80'	IOBPNCH	+1 X'01'	IOBRSV37	+33 (21)
IOBDEQCP	-8 (8)	TOBDDMED	+28 X'80'	IOBSBLKL	+49 X'40'
IOBDEQIN IOBDIOBS	-8 (8) +42 (2A)	IOBPRMER IOBPRTOV	-8 X'80'	IOBSEEK IOBSEEK2	+32 (20) +40 (28)
IOBDIOBS	+72 (2R) +72 (48)	IOBPTST	-16 X'08'	IOBSERSE	+1 X'40'
IOBDPLAD	+44 (2C)	IOBPURGE	+1 X'20'	IOBSENS0	+2 (2)
IOBDPLB	+45 (2D)	102101102	20	IOBSENS1	+3 (3)
IOBDOADA	-8 (-8)			IOBSIOCC	+16 (10)
IOBDQADB	-7 (-7)	IOBR	+39 (27)	IOBSIORT	+50 X'01'
IOBDQPTR	+60 (3C)	IOBRCVPT	+38 (26)	IOBSKEY	+49 X'80'

NAME	OFFSET		NAME	OFFSET	*	NAME	OFFSETS/
	EQU VA			EQU VA	TOE		EQU VALUE
IOBSKUPD	+1 X'						
IOBSK2BB	+41 (2						
IOBSK2CC	+43 (2)						
IOBSK2HH	+45 (2)						
IOBSK2M IOBSK2R	+40 (2 +47 (2						
IOBSNDPT	+39 (2						
IOBSNSC9	+2 X'	•					
IOBSPAN	-8 X'						
IOBSTART	+16 (1						
IOBSTATA	+36 (2						
IOBSTATO	+1 X'	•					
IOBSTAT1	+50 (3	2)					
IOBSTAT2	+51 (3	3)					
IOBSTDRD	+0 (0						
IOBSTRTB	+17 (1	•					
IOBSUFFX	+49 X'						
IOBSWAP	-4 (-						
IOBSOBO	+2 X'						
IOBSOB1	+2 X' +2 X'						
IOBSOB2 IOBSOB3	+2 X +2 X'						
IOBSOB3	+2 X'	-					
IOBSOB5	+2 X'						
IOBSOB6	+2 X'						
IOBSOB7	+2 X'						
IOBS1B0	+3 X'						
IOBS1B1	+3 X'						
IOBS1B2	+3 X'	20'					
IOBS1B3	+3 X'	10'					
IOBS1B4	+3 X'						
IOBS1B5	+3 X'						
IOBS1B6	+3 X'						
IOBS1B7 IOBTYPE	+3 X' +49 X'						
IOBUCBX	+32 (2						
IOBUCBXG	+32 (2	•					
IOBUNREL	+0 X'	•					
IOBUNSCH	+44 X'						
IOBUNSOR	+45 (2						
IOBUPDAT	-8 X'	10'					
IOBVERFY	+48 X'	80 '					
IOBWORK	+33 (2	•					
IOBWRITE	-8 X'						
W1IEXTEN	+40 (2						
W1OEXTEN	+40 (2	8)		OF TO			
			ENI	3 (AL) [(A)	∪		

END OF IOB

Job File Control Block

A job file control block (JFCB) is constructed and written by the job management routines for each ddname specified in a job step. A JFCB is brought into virtual storage when a DCB with the corresponding ddname is opened. Information in a JFCB may be modified during the open process.

OFF	SET	LENGT	H NAME	DESCRIPTION
0	(0)	8	JFCBQNAM	NAME OF THE DESTINATION QUEUE TO BE ASSIGNED TO THIS DATA SET.
0	(0)	44	JFCBDSNM	DATA SET NAME
44	(2C)	8	JFCBELNM	ELEMENT NAME OR GENERATION NUMBER OR TYPE OF AREA FOR AN INDEXED SEQUENTIAL DATA SET ONLY
44	(2C)	7	JFCIPLTX	MODULE NAME OF NETWORK CONTROL PROGRAM
51	(33)	1		LAST BYTE OF JFCBELNM
52	1 .1 1.	• • • • •	JFCBTSDM JFCCAT JFCVSL JFCSDS JFCTTR	JOB MANAGEMENT/DATA MANAGEMENT INTERFACE CATALOGED DATA SET VOLUME SERIAL LIST ALTERED SYSIN OR SYSOUT DATA SET USE JFCBOTTR INSTEAD OF DS1LSTAR FIELD TO REPOSITION DATA SET IF AUTOMATIC STEP RESTART OCCURS
			JFCNWRIT	DO NOT WRITE BACK THE JFCB DURING OPEN PROCESSING
		1	JFCNDSCB	DO NOT MERGE DSCB OR LABEL FIELDS INTO THIS JFCB
		1.	JFCNDCB JFCPAT	DO NOT MERGE DCB FIELDS INTO THIS JFCB THE PATTERNING DSCB IS COMPLETE
53	(35)	3	JFCBDSCB	TTR OF FORMAT 1 DSCB FOR DATA SET PART ON THE FIRST VOLUME OF THE DATA SET
56	(38)	4	JFCFCBID	FORMS CONTROL BUFFER IMAGE IDENTIFICATION FOR THE 3211 OR DATA PROTECTION IMAGE IDENTIFICATION FOR THE 3525
56	(38)	2	JFCAMCRO	ACCESS METHOD CHECKPOINT/RESTART OPTION INDICATORS
58	(3A)	2	JFCAMSTR	NUMBER OF STRINGS
60	(3C)	2	JFCBADBF	NUMBER OF DATA BUFFERS
62	(3E)	2	JFCNLREC	LOGICAL RECORD LENGTH FOR NEW ACCESS METHOD
64	(40)	2	JFCRSV01	RESERVED
66	.1		JFCBLTYP JFCRSV38 JFCBAL JFCBLTM	LABEL TYPE RESERVED USASI LABELS (AL OR AUL) NON-LABELLED TAPE CREATED BY DOS MAY HAVE LEADING TAPE MARK. OPEN/CLOSE/EOV AND RESTART ARE TO SPACE OVER TAPE MARK IF IT EXISTS.
	• • • •	. 1.1.		BYPASS LABEL PROCESSING USER LABEL NONSTANDARD LABEL STANDARD LABEL NO LABEL
67	(43)	3	JFCBOTTR	DASD MOD DATA SET - IF AUTOMATIC STEP RESTART WAS REQUESTED TTR OF EOD INDICATOR EXISTING WHEN DATA SET WAS FIRST OPENED DURING ORIGINAL EXECUTION
67			JFCBUFOF JFCBFOFL	BUFFER OFFSET USASI/USASCII - BLOCK PREFIX IS 4 BYTES AND CONTAINS BLOCK LENGTH IN UNPACKED DECIMAL. SPECIFIED BY BUFOFF=L.
68	1 .1		JFCFUNC JFCFNCBI JFCFNCBR JFCFNCBP	FUNCTION INDICATOR FOR THE 3525 INTERPRET (PUNCH AND PRINT TWO LINES) READ PUNCH

OFF	SET I	ENGT	H NAME	DESCRIPTION
	• • • •	1.		PRINT DATA PROTECTION THIS DATA SET IS TO BE PRINTED TWO-LINE PRINT SUPPORT REQUEST RESERVED
68	(44)	2	JFCBFLSQ	2ND & 3RD BYTES OF JFCBOTTR/ FILE SEQUENCE NUMBER
70	(46)	2	JFCBVLSQ	VOLUME SEQUENCE NUMBER
72	(48)	8	JFCBMASK	DATA MANAGEMENT MASK
72			JFCBOPS1 JFCBPTTR	OPEN ROUTINE INTERNAL SWITCHES MODEL DEPENDENT SUPPORT
77	1 .1 1.	• • • • • • • • • • • • • • • • • • • •		FLAG BYTE VOLUME LABEL PROCESSING STANDARD CREATION OF A STANDARD LABEL IS NECESSARY DESTRUCTION OF A STANDARD LABEL IS NECESSARY DUAL DENSITY CHECK DETECTED OPEN ROUTINE INTERNAL SWITCHES
78	1		JFCBFLG2 JFCINOP JFCOUTOP JFCDEFER	FLAG BYTE OF OPEN SWITCHES TREAT THE INOUT OPTION OF OPEN AS INPUT TREAT THE OUTIN OPTION OF OPEN AS OUTPUT DATA SET RELATED TO THE JFCB IS BEING PROCESSED SEQUENTIALLY, AT THE CHECK- POINT, ON A DIFFERENT VOLUME THAN WHEN PROCESSING BEGAN - WHEN RESTART OCCURS, CAUSE DEFERRED VOLUME MOUNTING
	1	••••	JFCMODNW	DISPOSITION CHANGED FROM MOD TO NEW - DISPOSITION (IN JFCBIND2) WILL BE RESTORED TO MOD AFTER OPEN
		1		SEARCH DIRECT FOR RPS DEVICES
	• • • •	.1	JECTRACE	GTF TRACE IS TO OCCUR DURING OPEN/CLOSE/EOV AND DYNAMIC ALLOCATION PROCESSING OF DCB
	••••	1.	JFCBBUFF	INDICATOR TO OPEN THAT A NON-ZERO VALUE IN JFCBOTTR IS NOT TO PREVENT THE NORMAL STORING BY OPEN OF A TTR IN JFCBOTTR
	••••	1	JFCRCTLG	SCHEDULER STEP TERMINATION ROUTINE IS TO RECATALOG THIS DATA SET AND PLACE IN THE CATALOG ENTRY THE DSCB TTR CONTAINED IN JFCBDSCB
79	(4F)	1	JFCBOPS2	OPEN ROUTINE INTERNAL SWITCHES
80	(50)	3	JFCBCRDT	DATA SET CREATION DATE (YDD)
83	(53)	3	JFCBXPDT	DATA SET EXPIRATION DATE (YDD)
86	11	1 11 1.	JFCLOC JFCADDED	INDICATOR BYTE 1 RELEASE EXTERNAL STORAGE DATA SET HAS BEEN LOCATED NEW VOLUME HAS BEEN ADDED TO DATA SET DATA SET IS MEMBER OF A GENERATION DATA GROUP DATA SET IS MEMBER OF A PARTITIONED DATA SET
87	11 1 .1 11		JFCDISP JFCNEW JFCMOD JFCOLD JFCBRWPW JFCSECUR	INDICATOR BYTE 2 BIT PATTERN FOR NEW, MOD, OLD NEW DATA SET MOD DATA SET OLD DATA SET BITS 2&3 ALLOWS READ WITHOUT PASSWORD WITH DATA SET SECURITY DATA SET SECURITY
		1		SHARED DATA SET DATA SET IS GENERATION OF A GDG - PRO-

OFF	SET	LENGT	H NAME	DESCRIPTION
		1.	JFCREQ JFCTEMP	CESSING OF ENTIRE GDG WAS SPECIFIED - IF AUTOMATIC RESTART AT A CHECKPOINT OCCURS, JFCB WILL BE DELETED STORAGE VOLUME REQUESTED TEMPORARY DATA SET
88	(58)			POINTER TO AMPBLK FOR ADDITIONAL ACCESS METHOD PARAMETERS
88	(58)	1	JFCBUFNO	NUMBER OF BUFFERS REQUIRED FOR THIS DATA SET
88	(58)	1	JFCBUFRQ	NUMBER OF BUFFERS REQUIRED FOR EACH LINE (QTAM)*
89	(59)	1	JFCBHIAR	BUFFER POOL LOCATION IN MAIN STORAGE (HIERARCHY)*
89	(59)	1	JFCBFALN	BUFFER ALIGNMENT
89	1		JFCBFTEK JFCHIER	BUFFERING TECHNIQUE / FOR GAM THIS FIELD IS USED FOR THE NUMBER OF IOBS CONSTRUCTED BY THE OPEN ROUTINE - MAX NBR IS 99 BITS 0 & 5 DESCRIBE MAIN STORAGE HIERARCHY
	• • • •	1 1 . 1 1 1.	JFCEXC JFCDYN JFCHIER1 JFCDWORD	BIT '00' = HIERARCHY 0 BIT '01' = HIERARCHY 1 SIMPLE BUFFERING EXCHANGE BUFFERING DYNAMIC BUFFERING HIERARCHY 1 MAIN STORAGE DOUBLE WORD BOUNDARY FULL WORD BOUNDARY - NOT DOUBLE WORD
90	(5A)	2	JFCBUFL	BUFFER LENGTH
92	1	1 	JFCACC JFCSKP JFCABN JFCTOPT JFCRSV02 JFCRSV03 JFCRSV04	ERROR OPTION SWITCH ACCEPT SKIP ABNORMAL END OF TASK ON-LINE TERMINAL TEST (BTAM) RESERVED RESERVED RESERVED RESERVED RESERVED
93	1	1 11 1 1.11 111 . 1.11	JFCEVEN JFCTRAN JFCCONV	TAPE RECORDING TECHNIQUE FOR 7-TRACK TAPE EVEN PARITY BCB/EBCDIC TRANSLATION DATA CONVERSION EVEN PARITY AND TRANSLATION
93	(5D)	1	JFCKEYLE	DIRECT ACCESS KEY LENGTH
93	1	1	JFCFRI JFCBUR	CONVERSION CODE NO CONVERSION IBM BCD FRIDEN BURROUGHS NATIONAL CASH REGISTER ASCII (8-TRACK) TELETYPE RESERVED
93		1	JFCMODE	MODE OF OPERATION
93	1 .1. 1	1 · · · · · · · · · · · · · · · · · · ·	JFCMODEO JFCMODER	STACKER SELECTION COLUMN BINARY MODE EBCDIC MODE OPTICAL MARK READ MODE READ COLUMN ELIMINATE MODE RESERVED

OF	FSET	LENGTH	<u>NAME</u>	DESCRIPTION
	• • •		JFCRSV07 JFCTWO JFCONE	RESERVED STACKER TWO STACKER ONE
93	• • •	1 11 11 . 11	JFCPRTSP JFCSPTHR JFCSPTWO JFCSPONE JFCSPNO	NORMAL PRINTER SPACING SPACE THREE LINES SPACE TWO LINES SPACE ONE LINE NO SPACING
94	.1. 1	11		TAPE DENSITY - 2400/3400 SERIES MAGNETIC TAPES 7-TRACK 200 BPI 7-TRACK 556 BPI 7 AND 9 TRACK 800 BPI 9-TRACK 1600 BPI
95	(5F)	3	JFCBABFS	TOTAL BUFFER SIZE FOR ALL ACCESS METHOD BUFFERS
95	(5F)	3	JFCLIMCT	SEARCH LIMIT (BDAM)
95	(5F)	1		1ST BYTE JFCLIMCT (BDAM)/RESERVED
96	(60)	2	JFCTRKBL	2ND & 3RD BYTES JFCLIMCT (BDAM)/ DATA SET OPENED FOR MOD - IF AUTOMATIC STEP RESTART WAS REQUESTED, TRACK BALANCE EXISTING WHEN THE DATA SET WAS FIRST OPENED DURING THE ORIGINAL EXECUTION OF THE CURRENT STEP
98	(62)	2	JFCDSORG	DATA SET ORGANIZATION BEING USED
98	1	1	JFCORGPS JFCORGDA JFCRSV09 JFCRSV10 JFCORGPO	BYTE 1 OF JFCDSORG INDEXED SEQUENTIAL PHYSICAL SEQUENTIAL DIRECT RESERVED RESERVED RESERVED PARTITIONED UNMOVABLE - THE DATA CONTAINS LOCATION DEPENDENT INFORMATION
99	1	1	JFCRSV11 JFCRSV12 JFCRSV13 JFCORGAM JFCRSV14 JFCRSV15	BYTE 2 OF JFCDSORG GRAPHICS RESERVED RESERVED RESERVED NEW ACCESS METHOD RESERVED RESERVED RESERVED RESERVED
100	xx. 11. 1 .1. xxx 1	1	JFCVAR JFCRCFM JFCVARD JFCRFO JFCRFB	RECORD FORMAT HIGH ORDER TWO BITS OF JFCRECFM TO BE TESTED UNDEFINED FIXED VARIABLE RECORD FORMAT (USASI/USASCII) VARIABLE (FORMAT D FOR USASI/USASCII) TRACK OVERFLOW BLOCKED - (MAY NOT OCCUR WITH UNDEFINED) STANDARD - NO TRUNCATED BLOCKS OR UNFILLED BLOCKS ARE EMBEDDED IN THE DATA SET BITS 5 & 6 OF JFCRECFM
101	(65)		JFCOPTCD M - BSAM - B	

OFF	SET	LENGTH	NAME	DESCRIPTION
			JFCWVCSP JFCALLOW	WRITE VALIDITY CHECK ALLOW A DATA CHECK CAUSED BY AN INVALID CHARACTER (1403 PRINTER WITH UCS)
	1		JFCPCIBT	CHAINED SCHEDULING USING THE PROGRAM CONTROLLED INTERRUPTION
	•••	1	JFCBCKPT	BYPASS EMBEDDED DOS CHECKPOINT RECORDS ON TAPE
		. 1	JFCRSV18	RESERVED
		1	JFCREDUC	USE REDUCED ERROR RECOVERY PROCEDURE - (MAGNETIC TAPE)
	• • • •	1	JFCSRCHD	SEARCH DIRECT INSTEAD OF SEARCH PREVIOUS - (ROTATIONAL POSITION SENSING DEVICES)
		1.	JFCRSV21	RESERVED
		1		RESERVED
	_		M - QISAM	
				WRITE VALIDITY CHECK
		• • • • •		RESERVED
		• • • • •		MASTER INDEXES
		1		INDEPENDENT OVERFLOW AREA
		. 1		CYLINDER OVERFLOW AREA RESERVED
		1	JFCDEL	
		1		REORGANIZATION CRITERIA
	• • • •	BDAM		REORGANIZATION CRITERIA
	1		•	WRITE VALIDITY CHECK
				TRACK OVERFLOW
	1.		JFCEXT	EXTENDED SEARCH
	• • • '	1	JFCFEED	FEEDBACK
		. 1		ACTUAL ADDRESSING
			JFCRSV20	RESERVED
		1.		RESERVED
	• • • •	1		RELATIVE TRACK ADDRESSING
	• • •	. 1	JFCOPTQ	EBCDIC TO OR FROM USASCII TRANSLATION REQUESTED
		TCAM	Ī	KEQUESTED
	1		JFCSDNAM	SOURCE OR DESTINATION NAME PRECEDES MESSAGE (AFTER CONTROL BYTE)
	.1.		JFCWUMSG	WORK UNIT IS A MESSAGE. DEFAULT WORK UNIT IS A RECORD.
100			JFCCBWU	CONTROL BYTE PRECEDES WORK UNIT
102	(00)	2	JFCBLKSI	MAXIMUM BLOCK SIZE
102	(66)	2	JFCBAXBF	NUMBER OF INDEX BUFFERS
104	(68)	8	JFCAMSYN	MODULE NAME FOR SYNAD ROUTINE FOR ACCESS METHOD
104	(68)	2	JFCLRECL	LOGICAL RECORD LENGTH
106	(6A)	1	JFCNCP	NUMBER OF CHANNEL PROGRAMS - NUMBER OF READ
	(011)	·	or ener	OR WRITE REQUESTS THAT MAY BE ISSUED PRIOR TO A CHECK - NUMBER OF IOBS GENERATED (MAXIMUM NUMBER IS 99) NOTE: GAM USES JFCBFTEK FOR THIS INFORMATION AND DOES NOT USE THIS FIELD AT ALL
107	(6B)	1	JFCNTM	NUMBER OF TRACKS THAT DETERMINE THE DEVELOPMENT OF A MASTER INDEX - MAXIMUM NUMBER IS 99
107			JFCPCI	PCI FLAG BYTE
			JFCPCIX1 JFCPCIX2	PCI=(X,) RECEIVE OPERATIONS PCI=(,X) SEND OPERATIONS X INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE

OFF	SET	LENGT	H NAME	DESCRIPTION
			JFCPCIA1 JFCPCIA2	OPERATIONS) OR EMPTIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTYING OF THE NEXT BUFFER. THE FIRST BUFFER REMAINS ALLOCATED AND ANOTHER IS ALLOCATED. PCI=(A,) RECEIVE OPERATIONS PCI=(,A) SEND OPERATIONS A INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE OPERATIONS) OR EMPTIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTYING OF THE NEXT BUFFER. THE FIRST BUFFER IS
			JFCPCIN1 JFCPCIN2	DEALLOCATED. A BUFFER IS ALLOCATED IN PLACE OF THE DEALLOCATED BUFFER. PCI=(N,) RECEIVE OPERATIONS PCI=(,N) SEND OPERATIONS N INDICATES THAT NO PCI'S ARE TAKEN DURING FILLING (ON RECEIVE OPERATIONS) OR EMPTYING (ON SEND OPERATIONS) OF BUFFERS. BUFFERS ARE DEALLOCATED AT THE END OF TRANSMISSION.
			JFCPCIR1 JFCPCIR2	PCI=(R,) RECEIVE OPERATIONS PCI=(,R) SEND OPERATIONS R INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE OPERATIONS) OR EMPTIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTYING OF EACH SUCCEEDING BUFFER. THE COMPLETED BUFFER IS DEALLOCATED, BUT NO NEW BUFFER IS ALLOCATED TO TAKE ITS PLACE.
			NORMAL 108	SEGMENT
108	(6C)	2	JFCRKP	RELATIVE POSITION OF THE FIRST BYTE OF THE KEY WITHIN EACH LOGICAL RECORD - MAXIMUM VALUE IS LOGICAL RECORD LENGTH MINUS KEY LENGTH
110	(6E)	1	JFCCYLOF	NUMBER OF TRACKS TO BE RESERVED ON EACH CYLINDER TO HOLD RECORDS THAT OVERFLOW FROM OTHER TRACKS ON THAT CYLINDER - MAXIMUM VALUE IS 99
111	(6F)	1	JFCDBUFN	RESERVED
112	(70)	1	JFCINTVL	INTENTIONAL DELAY, IN SECONDS, BETWEEN PASSES THROUGH A POLLING LIST (QTAM)*
			108 PRINTER	
108	(6C)			NAME OF THE UCS IMAGE TO BE LOADED
112	1	1	JFCUCSOP JFCRSV24 JFCFOLD JFCRSV25 JFCVER JFCFCBAL JFCFCBVR JFCRSV26 JFCRSV27	OPERATION OF THE UCS IMAGE TO BE LOADED RESERVED UCS IMAGE TO BE LOADED IN THE FOLD MODE RESERVED UCS IMAGE TO BE VERIFIED FCB ALIGN FCB VERIFY RESERVED RESERVED
		E N D	OF 108 PRIN	TER SEGMENT
113	.1.	1	JFCRSV33	PRIORITY BETWEEN SEND AND RECEIVE OPERATIONS (QTAM)* SEND PRIORITY EQUAL PRIORITY RECEIVE PRIORITY RESERVED RESERVED

OFF	SET	LENGTH	H NAME	DESCRIPTION
		.1 1. 1	JFCRSV36	RESERVED RESERVED
114	(72)	2	JFCSOWA	LENGTH, IN BYTES, OF THE USER PROVIDED WORK AREA (QTAM)*
116	(74)	1	JFCBNTCS	NUMBER OF OVERFLOW TRACKS
117	(75)	1	JFCBNVOL	NUMBER OF VOLUME SERIAL NUMBERS
118	(76)	30	JFCBVOLS	THE FIRST FIVE VOLUME SERIAL NUMBERS
148	(94)	1	JFCBEXTL	LENGTH OF BLOCK OF EXTRA VOLUME SERIAL NUMBERS (BEYOND FIVE)
149	(95)	3	JFCBEXAD	RELATIVE TRACK ADDRESS (TTR) OF FIRST JFCB EXTENSION BLOCK
152	(98)	3	JFCBPQTY	PRIMARY QUANTITY OF DIRECT ACCESS STORAGE REQUIRED
152	(98)	3	JFCRUNIT	UNIT TYPE IN EBCDIC CHARACTERS OF A DEVICE AT A REMOTE TERMINAL. THE FIRST 2 CHARACTERS ARE RD (READER), PR (PRINTER) OR PU (PUNCH). THE THIRD CHARACTER IS A NUMBER FROM 1 TO 9.
155	xx 00 10 11 1	1 	JFCBSPAC JFCBAVR JFCBTRK JFCBCYL JFCRSV28 JFCRSV29 JFCONTIG JFCMIXG JFCALX	SPACE PARAMETERS BIT PATTERN FOR SPACE REQUESTS 'ABSTR' REQUEST AVERAGE BLOCK LENGTH REQUEST 'TRK' REQUEST 'CYL' REQUEST RESERVED RESERVED 'CONTIG' REQUEST 'MXIG' REQUEST 'ALX' REQUEST 'ROUND' REQUEST
156	(9C)	3	JFCBSQTY	SECONDARY QUANTITY OF DIRECT ACCESS STORAGE REQUIRED
156	(9C)	2	JFCRQID	QID USED BY ACCESS METHOD TO DETERMINE THE REMOTE TERMINAL LOCATION FOR THIS JOB.
158	(9E)	1		THIRD BYTE OF JFCBSQTY
159	1 .1 1. 1	1 .1	JFCRSV39 JFCRSV40 JFCRSV41	FLAG BYTE RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED UNIT AFFINITY SPECIFIED FOR THIS DATA SET
160	(A0)	3	JFCBDQTY	QUANTITY OF DIRECT ACCESS STORAGE REQUIRED FOR A DIRECTORY OR AN EMBEDDED INDEX AREA
163	(A3)	3	JFCBSPNM	ADDRESS OF THE JFCB WITH WHICH CYLINDERS ARE SPLIT
166	(A6)	2	JFCBABST	RELATIVE ADDRESS OF FIRST TRACK TO BE ALLOCATED
168	(A8)	3	JFCBSBNM	ADDRESS OF THE JFCB FROM WHICH SPACE IS TO BE SUBALLOCATED

OF	SET	LENGT	H NAME	DESCRIPTION
171	(AB)	3	JFCBDRLH	AVERAGE DATA BLOCK LENGTH
174	(AE)	1	JFCBVLCT	VOLUME COUNT
175	(AF)	1	JFCBSPTN	NUMBER OF TRACKS PER CYLINDER TO BE USED BY THIS DATA SET WHEN SPLIT CYLINDER IS INDICATED

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	51 (33) 95 (5F)	JFCBPMEM	86 X'01'	JFCFMREC	100 X'CO'
	158 (9E)	JFCBPQTY JFCBPTTR	152 (98) 72 X'01'	JFCFNCBD	68 X'08'
JFCABN	92 X'20'	JFCBQNAM	0 (0)	JFCFNCBI JFCFNCBP	68 X'80' 68 X'20'
JFCACC	92 X'80'	JFCBRLSE	86 X'40'	JFCFNCBR	68 X'40'
JFCACT	101 X'08'	JFCBRWPW	87 X'30'	JFCFNCBT	68 X'02'
JFCADDED	86 X'OC'	JFCBSBNM	168 (A8)	JFCFNCBW	68 X'10'
JFCALLOW	101 X'40'	JFCBSCTY	87 X'10'	JFCFNCBX	68 X'04'
JFCALX	155 X'02'	JFCBSPAC	155 X'CO'	JFCFOLD	112 X'40'
JFCAMCRO	56 (38)	JFCBSPNM	163 (A3)	JFCFRI	93 X'20'
JFCAMPTR	88 (58)	JFCBSPTN	175 (AF)	JFCFUNC	68 (44)
JFCAMSTR	58 (3A)	JFCBSQTY	156 (9C)	JFCFWORD	89 X'01'
JFCAMSYN JFCASA	104 (68) 100 X'04'	JFCBSTAT JFCBTRK	87 X'40' 155 X'80'	JFCGDG	86 X'02'
JFCASCII	93 X'04'	JFCBTSDM	52 (34)	JFCHIER JFCHIER1	89 X'84' 89 X'04'
JFCBABFS	95 (5F)	JFCBUAFF	159 X'01'	JFCIND	101 X'10'
JFCBABS	155 X'00'	JFCBUFIN	*A* JFCBUFNO	JFCINOP	78 X'80'
JFCBABST	166 (A6)	JFCBUFL	90 (5A)	JFCINTVL	112 (70)
JFCBADBF	60 (3C)	JFCBUFMX	*A* JFCNCP	JFCIPLTX	44 (2C)
JFCBAL	66 X'40'	JFCBUFNO	88 (58)	JFCKEYLE	93 (5D)
JFCBAVR	155 X'40'	JFCBUFOF	67 (43)	JFCLIMCT	95 (5F)
JFCBAXBF	102 (66)	JFCBUFRQ	88 (58)	JFCLOC	86 X'30'
JFCBBUFF JFCBCD	78 X'02' 93 X'40'	JFCBUFSI	*A* JFCBLKSI 93 X'10'	JFCLRECL	104 (68) 100 X'02'
JFCBCKPT	101 X'10'	JFCBUR JFCBVLCT	174 (AE)	JFCMAC JFCMAST	100 X'02'
JFCBCRDT	80 (50)	JFCBVLSQ	70 (46)	JFCMIXG	155 X'04'
JFCBCTRI	155 (9B)	JFCBVOLS	118 (76)	JFCMOD	87 X'80'
JFCBCYL	155 X'CO'	JFCBXPDT	83 (53)	JFCMODE	93 (5D)
JFCBDQTY	160 (A0)	JFCCAT	52 X'80'	JFCMODEO	93 X'20'
JFCBDRLH	171 (AB)	JFCCBWU	101 X'20'	JFCMODER	93 X'10'
JFCBDSCB	53 (35)	JFCCHAR	100 X'06'	JFCMODNW	78 X'10'
JFCBDSNM	0 (0)	JFCCODE	93 (5D)	JFCNCP	106 (6A)
JFCBELNM JFCBEXAD	44 (2C) 149 (95)	JFCCONV JFCCPRI	93 X'13' 113 (71)	JFCNCR JFCNDCB	93 X'08' 52 X'02'
JFCBEXTL	148 (94)	JFCCYL	101 X'08'	JFCNDSCB	52 X'04'
JFCBFALN	89 (59)	JFCCYLOF	110 (6E)	JFCNEW	87 X'CO'
JFCBFLG1	77 (4D)	JFCDBUFN	111 (6F)	JFCNL	66 X'01'
JFCBFLG2	78 (4E)	JFCDEFER	78 X'20'	JFCNLREC	62 (3E)
JFCBFLSQ	68 (44)	JFCDEL	101 X'02'	JFCNOCC	100 X'00'
JFCBFOFL	67 X'80'	JFCDEN	94 (5E)	JFCNOCON	93 X'80'
JFCBFOUT	*A* JFCBUFNO 89 (59)	JFCDISP	87 X'CO'	JFCNSL	66 X'04'
JFCBFTEK JFCBGDGA	87 X'04'	JFCDSORG JFCDSRG1	98 (62) 98 (62)	JFCNTM JFCNWRIT	107 (6B) 52 X'08'
JFCBHIAR	89 (59)	JFCDSRG2	99 (63)	JFCOLD	87 X'40'
JFCBIN	93 X'80'	JFCDUAL	77 X'10'	JFCONE	93 X'01'
JFCBIND1	86 (56)	JFCDWORD	89 X'02'	JFCONTIG	155 X'08'
JFCBIND2	87 (57)	JFCDYN	89 X'08'	JFCOPEN	77 X'OF'
JFCBLGTH	175 X'BO'	JFCEBCD	93 X'40'	JFCOPTCD	101 (65)
JFCBLKSI	102 (66)	JECENT	87 X'04'	JFCOPTQ	101 X'08'
JFCBLOCT JFCBLP	86 X'10' 66 X'10'	JFCEQUAL JFCEROPT	113 X'40' 92 (5C)	JFCORGAM JFCORGDA	99 X'08' 98 X'20'
JFCBLTM	66 X'20'	JFCEVEN	93 X'23'	JFCORGGS	99 X'80'
JFCBLTYP	66 (42)	JFCEXC	89 X'10'	JFCORGIS	98 X'80'
JFCBMASK	72 (48)	JFCEXT	101 X'20'	JFCORGPO	98 X'02'
JFCBNEWV	86 X'04'	JFCFCBAL	112 X'08'	JFCORGPS	98 X'40'
JFCBNTCS	116 (74)	JFCFCBID	56 (38)	JFCORGU	98 X'01'
JFCBNVOL	117 (75)	JFCFCBVR	112 X'04'	JFCOUTLI	*A* JFCCPRI
JFCBOPS1 JFCBOPS2	72 (48) 79 (4F)	JFCFEED JFCFIX	101 X'10' 100 X'80'	JFCOUTOP JFCOVER	78 X'40' 101 X'40'
JFCBOTTR	67 (43)	JFCFLGS1	159 (9F)	JFCPAT	52 X'01'
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NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/	NAME	OFFSETS/
	EQU VALUE		EQU VALUE		EQU VALUE
JFCPCI	107 (6B)	JFCRSV34	113 X'08'		
JFCPCIA1	107 X'20'	JFCRSV35	113 X'04'		
JFCPCIA2	107 X'10'	JFCRSV36	113 X'02'		
JFCPCIBT	101 X'20'	JFCRSV37	113 X'01'		
JFCPCIN1	107 X'08'	JFCRSV38	66 X'80'		
JFCPCIN2	107 X'04'	JFCRSV39	159 X'80'		
JFCPCIR1	107 X'02' 107 X'01'	JFCRSV40	159 X'40'		
JFCPCIR2 JFCPCIX1	107 X'80'	JFCRSV41 JFCRSV42	159 X'20' 159 X'10'		
JFCPCIX2	107 X'40'	JFCRSV42	159 X'08'		
JFCPDS	86 X'01'	JFCRSV44	159 X'04'		
JFCPRTSP	93 (5D)	JFCRSV45	159 X'02'		
JFCRCFM	100 X'EO'	JFCRUNIT	152 (98)		
JFCRCTLG	78 X'01'	JFCSDNAM	101 X'80'		
JFCRECFM	100 (64)	JFCSDRPS	78 X'08'		
JFCRECV	113 X'20'	JFCSDS	52 X'20'		
JFCREDUC	101 X'04'	JFCSECUR	87 X ' 10'		
JFCREL	101 X'01'	JFCSEND	113 X'80'		
JFCREORG	101 X'01'	JFCSHARE	87 X'08'		
JFCREQ	87 X'02'	JFCSIM	89 X'40'		
JFCRESRV	*A* JFCRKP	JFCSKP	92 X'40'		
JFCRFB JFCRFO	100 X'10' 100 X'20'	JFCSL JFCSLCRE	66 X'02' 77 X'40'		
JFCRFS	100 X 20	JFCSLDES	77 X'20'		
JFCRKP	108 (6C)	JFCSOWA	114 (72)		
JFCRLSE	86 X'CO'	JFCSPNO	93 X'01'		
JFCROUND	155 X'01'	JFCSPONE	93 X'09'		
JFCRQID	156 (9C)	JFCSPTHR	93 X'19'		
JFCRSV01	64 (40)	JFCSPTWO	93 X'11'		
JFCRSV02	92 X'08'	JFCSRCHD	101 X'04'		
JFCRSV03	92 X'04'	JFCSTACK	93 (5D)		
JFCRSV04	92 X'02' 92 X'01'	JFCSTAND	77 X'80'		
JFCRSV05 JFCRSV06	93 X'08'	JFCSUL JFCTEMP	66 X'OA' 87 X'01'		
JFCRSV07	93 X'04'	JFCTHRSH	*A* JFCCPRI		
JFCRSV08	98 X'10'	JFCTOPT	92 X'10'		
JFCRSV09	98 x'08'	JFCTRACE	78 X'04'		
JFCRSV10	98 X'04'	JFCTRAN	93 X'3B'		
JFCRSV11	99 X'40'	JFCTREV	93 X'2B'		
JFCRSV12	99 X'20'	JFCTRKBL	96 (60)		
JFCRSV13	99 X'10'	JFCTRTCH	93 (5D)		
JFCRSV14	99 X'04'	JFCTTR	52 X'10'		
JFCRSV15	99 X'02' 99 X'01'	JECTTY	93 X'02'		
JFCRSV16 JFCRSV17	101 X'40'	JFCTWO JFCUCSID	93 X'02' 108 (6C)		
JFCRSV18	101 X'08'	JFCUCSOP	112 (70)		
JFCRSV19	101 X'04'	JFCUND	100 X'CO'		
JFCRSV20	101 X'04'	JFCVAR	100 X'40'		
JFCRSV21	101 X'02'	JFCVARD	100 X'20'		
JFCRSV22	101 X'02'	JFCVER	112 X'10'		
JFCRSV23	101 X'01'	JFCVSL	52 X'40'		
JFCRSV24	112 X'80'	JFCWUMSG	101 X'40'		
JFCRSV25 JFCRSV26	112 X'20' 112 X'02'	JFCWVCBD JFCWVCIS	101 X'80' 101 X'80'		
JFCRSV26	112 X 02	JFCWVCIS	101 X'80'		
JFCRSV28	155 X'20'	JFC1600	94 X'C3'		
JFCRSV29	155 X'10'	JFC200	94 X'03'		
JFCRSV31	68 X'01'	JFC556	94 X'43'		
JFCRSV32	93 X'01'	JFC800	94 X'83'		
JFCRSV33	113 X'10'				
		EN	D OF JFCB		

Job File Control Block Extension

Job file control block extension blocks are used to record volume serial numbers in excess of the five recorded in the JFCBVOLS field of the JFCB. Each extension block is 176 bytes in length.

OFFS	SET	LENGT	H NAME	DESCRIPTION	
0	(0)	3	JFCBXTTR	DIRECT ACCESS ADDRESS FOR NEXT EXTENSION BLOCK	
3	(3)	1		RESERVED	
4	(4)	90	JFCBXVOL	UP TO 15 SIX-BYTE VOLUME SERIAL NUMBERS	
94	(5E)	82		RESERVED	

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	3 (3)				
	94 (5E)				
JFCBXTTR	0 (0)				
JFCBXVOL	4 (4)				
		END OF	JFCB EXTENSION		

Job Step Control Block

The job step control block (JSCB) contains step-related information that remains unchanged throughout the performance of all tasks required to complete a job step. Therefore, the JSCB is step dependent rather than task dependent. Since all tasks in a job step can use this common pool of information, the JSCB makes it unnecessary to store this information within each task control block created during the execution of the job step.

The address of the JSCB is in the TCBJSCB field of each task control block created during the completion of the job step.

OFF	SET	LENGT	H NAME	DESCRIPTION
188	(BC)	4	JSCRSV01	RESERVED
192	(CO)	4	JSCHPCE	ADDRESS OF OPTIONAL JOB ENTRY SYSTEM PROCESSOR CONTROL ELEMENT
192	(CO)	1	JSCRSV32	RESERVED
193	(C1)	3	JSCHPCEA	SAME AS JSCHPCE ABOVE
196	(C4)	4	JSCBSHR	ADDRESS OF AMBL CHAIN
200	(C8)	4	JSCBTCP	ADDRESS OF TIOT CHAINING ELEMENT CHAIN
204	(CC)	4	JSCBPCC	ADDRESS OF PRIVATE CATALOG CONTROL BLOCK CHAIN
208	(D0)	4	JSCBTCBP	ADDRESS OF INITIATOR'S TCB
212	(D4)	4	JSCBIJSC	ADDRESS OF JSCB OF THE INITIATOR WHICH ATTACHED THIS JOB STEP
216	(D8)	4	JSCBDBTB	ADDRESS OF THE DEB TABLE
220	(DC)	4	JSCBID	JOB SERIAL NUMBER
224	(E0)	4	JSCBDCB	ADDRESS OF DCB FOR DATA SET CONTAINING SCHEDULER TABLES FOR THIS JOB
224	(E0)	1	JSCRSV02	RESERVED
225	(E1)	3	JSCBDCBA	SAME AS JSCBDCB ABOVE
228	(E4)	1	JSCBSTEP	CURRENT STEP NUMBER. CONTAINS 1 FOR FIRST STEP
229	(E5)	3	JSCRSV03	RESERVED
232	(E8)	4	JSCBSECB	ECB FOR COMMUNICATION BETWEEN MAIN STORAGE SUPERVISOR AND INITIATOR
236	.1	1	JSCBOPTS JSCRSV04 JSCRSV05 JSCBLONG JSCRSV06 JSCRSV07 JSCRSV08	FLAG BYTE RESERVED RESERVED FAIL REDEFINE BECAUSE OF LONG RUNNING TASK (VS1) RESERVED RESERVED RESERVED RESERVED
	• • • •	1.	JSCRSV09 JSCBAUTH	RESERVED THE STEP REPRESENTED BY THIS JSCB IS
	• • • •		0002110111	AUTHORIZED TO ISSUE THE MODESET MACRO
237	(ED)	3	JSCRSV10	RESERVED
240	(FO)	3	JSCBTTTR	JOB Q ADDRESS (TTR) OF TIOT EXTENSION (VS2)
243			JSCBSWT1 JSCBPASS	STATUS SWITCHES (VS2) WHEN THIS BIT IS SET TO ONE AND A CORRESPONDING BIT IN THE DCB IS SET TO ONE, OPEN WILL BYPASS PASSWORD PROTECTION FOR THE DATA SET BEING OPENED (VS2)
			JSCRSV15 JSCRSV16	RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED A MESSAGE HAS BEEN ISSUED BECAUSE THE DUMP DATA SET WAS NOT SUCCESSFULLY OPENED. PREVENTS USE OF MULTIPLE SMB'S FOR MULTIPLE OPEN FAILURES IN JOB STEP. (VS2)

OF	FSET	LENGT	H NAME	DESCRIPTION
244	(F4)	4	JSCBQMPI	RESERVED
248	(F8)	4	JSCBQMPO	ADDRESS OF THE QMPA FOR THE JOB'S OUTPUT MSGCLASS QUEUE ENTRY (VS2)
252	(FC)	4	JSCBWTP	WRITE-TO-PROGRAMMER DATA
252	.1	1	JSCBWTFG JSCRSV17 JSCRSV18 JSCRSV19 JSCRSV20 JSCRSV21 JSCRSV22 JSCRSV23	FLAGS FOR WTP FUNCTION PREVIOUS WTP I/O HAD I/O ERROR RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
253	(FD)	1	JSCBWTSP	NUMBER OF LAST STEP TO USE WTP
254	(FE)	2	JSCBPMG	NUMBER OF WTP'S FOR STEP
256	(100)	4	JSCBCSCB	ADDRESS OF CSCB USED FOR PROCESSING COMMANDS RECEIVED FOR JOB
260	(104)	4	JSCBJCT	SAME AS JSCBJCTA BELOW
260	(104)	1	JSCRSV24	RESERVED
261	(105)	3	JSCBJCTA	TTR OF JOB'S JCT
264	(108)	4	JSCBPSCB	ADDRESS OF TSO PROTECTED STEP CONTROL BLOCK
268	(10C)	2	JSCBTJID	TSO TERMINAL JOB IDENTIFIER
270	(10E)	2	JSCRSV25	RESERVED
272	(110)	4	JSCBIECB	ECB USED FOR COMMUNICATION BETWEEN DYNAMIC ALLOCATION AND THE INITIATOR IN ORDER TO PERFORM DATA SET INTEGRITY
276	(114)	4	JSCRSV26	RESERVED
280	(118)	4	JSCRSV27	RESERVED
284	(11C)	4	JSCBSWAB	RESERVED
288	(120)	4	JSCBJNL	SAME AS JSCBJNLA BELOW
288	.1 1. 1	1	JSCBJNLF JSCBJNLE JSCBJSBJ	JOB JOURNAL STATUS INDICATORS* NOTHING SHOULD BE WRITTEN IN JOURNAL LIMIT SIZE OF JOURNAL REACHED ERROR IN JOURNAL, DO NOT WRITE MODULE XEFXB500 TO PROCESS 'AFTER ALLOCATION' JOB HAS NOT ENTERED ALLOCATION FOR THE FIRST TIME
		.1 1. 1	JSCBJSBX	JOB HAS ENTERED ALLOCATION JOB HAS COMPLETED ALLOCATION JOB HAS ENTERED TERMINATION
289	(121)	3	JSCBJNLA	INITIATOR JSCB ONLY - ADDRESS OF JSCB FOR STEP BEING INITIATED. OTHERWISE, ZERO
292	(124)	4	JSCBJNLR	POINTER TO LRCB IN LSQA
296	(128)	4	JSCBSMLR	ADDRESS OF LRCB FOR SYSTEM MESSAGE DATA SET FOR THIS STEP
300	(12C)	4	JSCBSUB	SAME AS JSCBSUBA BELOW
300	(12C)	1	JSCRSV31	RESERVED
301	(12D)	3	JSCBSUBA	ADDRESS OF JES-SUBTL FOR THIS JOB STEP
304	(130)	2	JSCBSONO	THE NUMBER OF SYSOUT DATA SETS PLUS ONE

OF	FSET	LENGT	H NAME	DESCRIPTION
306	(132)	2	JSCRSV28	RESERVED
308	(134)	4	JSCRSV29	RESERVED
312	(138)	4	JSCRSV30	RESERVED
		END	OF JSCB	

NAME	OFFSETS/	NAME	OFFSETS/	NAME	OFFSETS/
	EQU VALUE		EQU VALUE		EQU VALUE
JSCBAUTH	236 X'01'	JSCRSV11	243 X'40'		
JSCBCSCB JSCBDBTB	256 (100) 216 (D8)	JSCRSV12 JSCRSV13	243 X'20' 243 X'10'		
JSCBDCB	224 (EO)	JSCRSV14	243 X'08'		
JSCBDCBA	225 (E1)	JSCRSV15	243 X'04'		
JSCBID	220 (DC)	JSCRSV16	243 X'02'		
JSCBIECB	272 (110)	JSCRSV17	252 X'40'		
JSCBIJSC JSCBIOFG	212 (D4) 252 X'80'	JSCRSV18 JSCRSV19	252 X'20' 252 X'10'		
JSCBJCT	260 (104)	JSCRSV19	252 X'08'		
JSCBJCTA	261 (105)	JSCRSV21	252 X'04'		
JSCBJJSB	288 (120)	JSCRSV22	252 X'02'		
JSCBJNL	288 (120)	JSCRSV23	252 X'01'		
JSCBJNLA JSCBJNLE	289 (121) 288 X'20'	JSCRSV24 JSCRSV25	260 (104) 270 (10E)		
JSCBJNLF	288 X'40'	JSCRSV26	276 (104)		
JSCBJNLN	288 X'80'	JSCRSV27	280 (118)		
JSCBJNLR	292 (124)	JSCRSV28	306 (132)		
JSCBJSBA JSCBJSBI	288 X'04' 288 X'08'	JSCRSV29 JSCRSV30	308 (134) 312 (138)		
JSCBJSBJ	288 X'10'	JSCRSV31	300 (12C)		
JSCBJSBT	288 X'01'	JSCRSV32	192 (CO)		
JSCBJSBX	288 X'02'				
JSCBLONG	236 X'20'				
JSCBOPTS JSCBPAS S	236 (EC) 243 X'80'				
JSCBPCC	204 (CC)				
JSCBPMG	254 (FE)				
JSCBPMSG	243 X'01'				
JSCBPSCB JSCBQMPI	264 (108) 244 (F4)				
JSCBQMPO	248 (F8)				
JSCBS E CB	232 (E8)				
JSCBSHR	196 (C4)				
JSCBSMLR	296 (128)				
JSCBSONO JSCBSTEP	304 (130) 228 (E4)				
JSCBSUB	300 (12C)				
JSCBSUBA	301 (12D)				
JSCBSWAB	284 (11C)				
JSCBSWT1 JSCBTCBP	243 (F3) 208 (D0)				
JSCBTCP	200 (B0)				
JSCBTJID	268 (10C)				
JSCBTTTR	240 (F0)				
JSCBWTFG JSCBWTP	252 (FC) 252 (FC)				
JSCBWTSP	252 (FC) 253 (FD)				
JSCHPCE	192 (CO)				
JSCHPCEA	193 (C1)				
JSCRSV01 JSCRSV02	188 (BC) 224 (E0)				
JSCRSV02 JSCRSV03	224 (EU) 229 (E5)				
JSCRSV04	236 X'80'				
JSCRSV05	236 X'40'				
JSCRSV06	236 X'10' 236 X'08'				
JSCRSV07 JSCRSV08	236 X'08'				
JSCRSV09	236 X'02'				
JSCRSV10	237 (ED)				
		T'NT	D OE TOOR		

Line Control Block -- TCAM

The line control block(LCB) for TCAM is a fixed length table containing information that must be maintained on a line or line group basis. There is one line control block for each line in a line group. All LCBs for a line group are contiguous in storage. The LCB contains the following information:

- The address of the QCB to which recalled buffers are to be posted.
- Pointers to the channel program and the corresponding DCB.
- The last PCI serviced.
- The chain of waiting QCBs.

It also contains the buffer status, the subtask chain, and the I/O status.

When the LCB is functioning as a QCB, the LCB contains the address of the first subtask control block (STCB). At LCB + 76 (4C) is the element control block. The IOB is at LCB + 32 (20).

The address of the LCB can be found by subtracting 32 (hex 20) from the address of the IOB found in the DCBIOBAD field of the data control block and using the relative line number as an index. The length of the LCB is located in the DCBEIOBX field of the DCB.

Storage is allocated and fixed and the LCB is initialized when the line group is opened.

OFF	SET	LENGTH	H NAME	DESCRIPTION
0	(0)	8	LCBRCB	RESOURCE CONTROL BLOCK
0	(0)	1	LCBKEY	ELEMENT KEY OF BUFFER
1	(1)	3	LCBQCBA	QCB ADDRESS
4	(4)	1	LCBPRI	PRIORITY OF BUFFER
5	(5)	3	LCBLINK	LINK FIELD OF BUFFER
8	(8)	1	LCBRSKEY	RECEIVE SCHEDULER KEY
9	(9)	3	LCBSTCBA	ADDRESS OF FIRST STCB WHEN LCB IS A QCB.
12	(C)	1	LCBRSPRI	RECEIVE SCHEDULER PRIORITY
13	(D)	3	LCBRSLNK	ADDR NEXT ITEM IN CHAIN
16	(10)	2	LCBEOLTD	END OF INVITATION-LIST TIME DELAY
18	(12)	1	LCBTDL	TIME DELAY QUEUE OFFSET TO QCB ADDRESS. FOR LCB = X'14'
19	1	1	LCBTSOB LCBWRBRK LCBTSBUF LCBSATRD LCBSOPL LCBPREP LCBCIRCD LCBINHBN LCB2741N	TSO STATUS BITS WRITE BREAK IN PROGRESS BUFFER HAS TS PREFIX SIMULATED ATTN READ REQUEST START OF POLLING LIST PREPARE ON LINE CIRCLE D SENT TO 2741 USE INHIBITS FOR THIS TERM 2741 ON THIS LINE
20	11	1	LCBCHAIN LCBSCRNN LCBSCRNF LCBEXCP LCBERMSG LCBNORTY LCBUREQN LCBUREQF LCBBFRSZ LCBTETEN LCBTETEF LCBABRTN LCBABRTF	DISPOSITION STATUS BITS SCREEN CHANGE REQUESTED NO SCREEN CHANGE REQUESTED DELAY EXCP TILL BUFFER ASSOCIATION ERP MESSAGE WAITING TEXT RETRY NOT POSSIBLE UNIT REQUEST IN PROGRESS UNIT REQUEST NOT IN PROGRESS QUEUE MANAGEMENT FLAG USER REQUESTED TETE A TETE TETE A TETE NOT REQUESTED ABORT SEQUENCE MUST BE SENT ABORT SEQUENCE NOT REQUIRED
21	(15)	3	LCBINSRC	IN-SOURCE CHAIN
24	(18`)	1	LCBNTXT	PRFNTXT SAVE AREA
25	(19)	3	LCBSCBDA	ADDR SCB DIRECTORY
28	(1C)	1	LCBISZE	COUNT OF IDLES RESERVED
29	(1D)	3	LCBFSBFR	FIRST BFR ASSIGNED TO THIS LCB
29	(1D)	3	LCBLSBFR	
32	(20)	1	LCBFLAG1	IOS FLAGS 1
33	(21)	1	LCBFLAG2	IOS FLAGS 2
34	(22)	1	LCBSENS0	SENSE BYTE 0
35	(23)	1	LCBSENS1	SENSE BYTE 1
36	(24)	1	LCBECBCC	COMPLETION CODE
37	(25)		LCBECBPT	ADDR OF ECB
40			LCBFLAG3 LCBOBRRD	IOS FLAGS 3 TPER RECORD PROCESSING
41	(29)	7	LCBCSW	LAST CSW

OF	FSET I	ENGT	H NAME	DESCRIPTION
48	(30)	1	LCBSIOCC	SIO CONDITION CODE
49	(31)	3	LCBSTART	ADDR OF CHANNEL PROGRAM
52	(34)	4	LCBDCBPT	ADDRESS OF CORRESPONDING DCB
56	(38)	4	LCBRESTR	ERROR MESSAGE DATA
56	(38)	4	LCBRCQCB	QCB TO TPOST RECALLED BUFFER TO
60	(3C)	2	LCBINCAM	IOS
62	(3E)	2	LCBTTBIN	TERM TO BE CONNECTED INDEX
62	(3E)	2	LCBERRCT	IOS ERROR COUNTERS
64	(40)	1	LCBUCBX	UCB INDEX
65	(41)	3	LCBRCBFR	POINTER TO RECALLED BUFFER
65	(41)	3	LCBLSPCI	ADDR OF LAST SRVCD PCI
68	(44)	2	LCBRECOF	OFFSET TO START OF BUFFER TRANSLATION ROUTINE
70	(46)	2	LCBSTATE	STATUS BITS
70			LCBSTAT1	FIRST STATUS BYTE
			LCBRCLLN LCBRCLLF	RECALL BEING PERFORMED NO RECALL
	.1		LCBCTLMD	LINE IN CONTROL MODE
	1.	• • • •	LCBOCNI	NON-IMMEDIATE OPERATOR CONTROL OPERATION IN PROGRESS
				RECEIVING INITIATE MODE MSG
		1111	LCBINITF LCBCONT	NO INITIATE MODE CONTINUE OR RESET OPERATION
		.1	LCBFREEN	LINE FREE
			LCBFREEF LCBRECVN	LINE NOT FREE LINE IS RECEIVING
		1	LCBSENDN	ON = LINE SENDING BOTH SEND AND RECEIVE BITS OFF INDICATE LINE IS STOPPED
71	(47)	1	LCBSTAT2	SECOND STATUS BYTE
		1111	LCBTRACE LCBTRCOF	I/O TRACE ACTIVE FOR THIS LINE TRACE NOT ACTIVE
	.1		LCBMSGNN	MSGEN/STARTUP MESSAGE
		1111	LCBMSGNF LCBBEOTN	NOT MSGEN/STARTUP MESSAGE EOT FROM BFRED TERM -NO EOM
		1111	LCBBEOTF	REGULAR EOM IF EOT
		1	LCBSNDPR LCBNEGRP	SEND PRIORITY SWITCH SET BY SEND SCHEDULER NEGATIVE RESPONSE TO POLLING RECEIVED
		.1	LCBSYNC	LINE IS BISYNC
		1.		DIAL LCB A TERMINAL RESPONSE IS DUE
72	(48)		LCBTSTSW	TEST-AND-SET SWITCH BIT DEFINITIONS CONNECTION ESTABLISHED
73	(49)		LCBRECAD	ADDRESS CURRENT MSG BLOCK
76	(4C)		LCBERB	ERB
76	(4C)	1	LCBERBKY	ELEMENT REQUEST BLOCK KEY
77	(4D)	3	LCBERBQB	ADDRESS OF QCB TO WHICH THIS ERB IS CURRENTLY TPOSTED
80	(50)	1	LCBERBPY	ERB PRIORITY
81	(51)	3	LCBERBLK	ADDR NEXT ITEM IN CHAIN
84	(54)	1	LCBERBST	STATUS OF ERB THE X'08' BIT MUST NEVER BE ON IN THE STATUS BYTE. IT MUST REMAIN THE 9TH BYTE OF THE ERB BIT DEFINITIONS

OFF	SET	LENGT	H NAME	DESCRIPTION
	.1 11.1 1	1111	LCBMSG LCBEOMSG LCBRDERR LCBRDERF LCBINQ LCBERROR LCBPRCPG	END OF INITIATE MODE TO IEDQHM END OF MESSAGE READ FROM DISK LOGICAL READ ERROR NO READ ERROR ERB IS WAITING-BFRS FROM IEDQHM ERROR ON SEND SIDE AFTER INITIAL REQUEST IS SATISFIED, ERB WILL BE POSTED TO QCB INDICATED IN LCBRCQCB DISK REQUEST IS COMPLETE
		1.	LCBCOMPL LCBDLNKN	ERB NOT TPOSTED; IF ON THE ERB CAN BE TPOSTED
	1111	111.	LCBDLNKF	ERB POSTED; PCI CAN NOT TPOST ERB
85	(55)	3	LCBERBCH	ADDR CHAIN ASSIGNED BFRS
88	(58)	2	LCBERBCT	COUNT FIELDS
90	(5A)	2	LCBTTCIN	TERM CURR CONNECTED INDEX
92	(5C) 1 .1	FOLI		BITS TO CONTROL BSC LINE REQUEST TO SEND NAK RESPONSE ACK COUNTER - SEND/RECEIVE ITS INDICATE WHETHER A SCAN OF LINE CONTROL LISHED AND TYPE OF LINE CONTROL RECEIVED.
		• • • •	LCBVSTRT LCBRSTRT LCBTTD	VALID START SEQUENCE ERROR START SEQUENCE TTD RECEIVED ENQ RECEIVED EOT FIRST CHARACTER TOTE REQUEST
93	(5D)	3	LCBSCBA	ADDRESS OF CURRENT SCB
96	(60)	1	LCBERMSK	ERROR RECORDING MASK
97	(61)	3	LCBINVPT	ADDR CURR ENTRY IN INV LIST
100	(64)	12	LCBTPCD	TP OP CODES
112	(70)	1	LCBSNSV	SAVE AREA FOR SENSE BYTE
113	(71)	7	LCBCSWSV	SAVE AREA FOR CSW
120	(78)	24	LCBERCCW	3 ERP COMMANDS
144	(90)	8	LCBCPA	CHANNEL PROGRAM AREA

Partitioned Data Set Directory Entries

A partitioned data set (PDS) directory entry describes a member of a partitioned data set. An entry is a maximum of 74 bytes and contains the name or alias name of a member, a pointer to the first block of the named member, and a user data field.

The pointer to the named member, as well as pointers that may appear within the user data field, are all relative addresses. They have the form TTR, specifying the address of the block relative to the address of the first block of the data set.

Separate descriptions are presented for the two formats of the PDS directory entry:

- Format 1 shows the PDS directory entry used by the linkage editor for placing (stowing) information in the directory of a PDS whose members are load modules.
- Format 2 shows the PDS directory entry format for a load module being brought into storage by the BLDL macro instruction.

Partitioned Data Set Directory Entry -- Format 1

This format of the partitioned data set (PDS) directory entry is produced by the linkage editor for a load

OFF	SET I	LENGTH	H NAME	DESCRIPTION
+0	(0)	8	PDS2NAME	LOAD MODULE MEMBER NAME OR ALIAS
+8	(8)	3	PDS2TTRP	TTR OF FIRST BLOCK OF NAMED MEMBER
+11	1 1 .11.		PDS2INDC PDS2ALIS DEALIAS PDS2NTTR PDS2LUSR	INDICATOR BYTE NAME IN THE FIRST FIELD IS AN ALIAS ALIAS FOR PDS2ALIS NUMBER OF TTR'S IN THE USER DATA FIELD LENGTH OF USER DATA FIELD IN HALF WORDS
+12	(C)		PDS2USRD	START OF VARIABLE LENGTH USER DATA FIELD
+12	(C)	3	PDS2TTRT	TTR OF FIRST BLOCK OF TEXT
+15	(F)	1	PDS2ZERO	ZERO
+16	(10)	3	PDS2TTRN	TTR OF NOTE LIST OR SCATTER/TRANSLATION TABLE. USED FOR MODULES IN SCATTER LOAD FORMAT OR OVERLAY STRUCTURE ONLY.
+19	(13)	1	PDS2NL	NUMBER OF ENTRIES IN NOTE LIST FOR MODULES IN OVERLAY STRUCTURE, OTHERWISE ZERO
+20	(14)	2	PDS2ATR	TWO-BYTE MODULE ATTRIBUTE FIELD
+20	1 .1 1. 1	1 1 1	PDS2ATR1 PDS2RENT DEREEN PDS2REUS PDS2OVLY DEOVLY PDS2TEST PDS2LOAD DELODY PDS2SCTR DESCAT PDS2EXEC DEXCUT PDS21BLK	ONLY LOADABLE ALIAS FOR PDS2LOAD SCATTER FORMAT
+21	.1		PDS2ATR2 PDS2FLVL PDS2ORG0 PDS2EP0 PDS2NRLD PDS2NREP PDS2TSTN PDS2LEF	SECOND BYTE OF MODULE ATTRIBUTE FIELD IF ZERO, MODULE CAN BE PROCESSED BY ALL LEVELS OF LINKAGE EDITOR IF ONE, MODULE CAN BE PROCESSED ONLY BY F LEVEL OF LINKAGE EDITOR. LINKAGE EDITOR ASSIGNED ORIGIN OF FIRST BLOCK OF TEXT IS ZERO. ENTRY POINT ASSIGNED BY LINKAGE EDITOR IS ZERO MODULE CONTAINS NO RLD ITEMS MODULE CANNOT BE REPROCESSED BY LINKAGE EDITOR MODULE CONTAINS TESTRAN SYMBOL CARDS MODULE CREATED BY LINKAGE EDITOR F
	• • • •	1	PDS2REFR	REFRESHABLE MODULE
+22	, , ,		PDS2STOR	TOTAL CONTIGUOUS MAIN STORAGE REQUIREMENT OF MODULE
	(19)		PDS2FTBL	LENGTH OF FIRST BLOCK OF TEXT
+27	(1B)	3	PDS2EPA	ENTRY POINT ADDRESS ASSOCIATED WITH MEMBER NAME OR WITH ALIAS NAME IF ALIAS INDICATOR IS ONE
+30	(1E)	3	PDS2FTBO	FLAG BYTES

OFI	FSET LENG	GTH NAME	DESCRIPTION
+30	· ·	1 PDS2FTB1 PDSAOSLE	
	1	PDS2PAGA PDS2SSI PDSAPFLG	SSI INFORMATION PRESENT
+31	(1F)	1 PDS2FTB2	BYTE 2 OF PDS2FTBO
+32	(20)	1 PDS2FTB3	BYTE 3 OF PDS2FTBO
	TI	HE FOLLOWING	SECTION IS FOR LOAD MODULES WITH SCATTER LOAD
+33	(21)	2 PDS2SLSZ	NUMBER OF BYTES IN SCATTER LIST
+35	(23)	2 PDS2TTSZ	NUMBER OF BYTES IN TRANSLATION TABLE
+37	(25)	2 PDS2ESDT	IDENTIFICATION OF ESD ITEM (ESDID) OF CONTROL SECTION TO WHICH FIRST BLOCK OF TEXT BELONGS
+39	(27)	2 PDS2ESDC	IDENTIFICATION OF ESD ITEM (ESDID) OF CONTROL SECTION CONTAINING ENTRY POINT
	T	HE FOLLOWING	SECTION IS FOR LOAD MODULES WITH ALIAS NAMES
+41	(29)	3 PDS2EPM	ENTRY POINT FOR MEMBER NAME
+44	(2C)	8 PDS2MNM	MEMBER NAME OF LOAD MODULE
		HE FOLLOWING ALF-WORD BOU	SECTION IS FOR SSI INFORMATION AND IS ON A NDARY
+52	(34)	2 PDSS03	FORCE HALF-WORD ALIGNMENT FOR SSI SECTION
+52	(34)	4 PDSSSIWD	SSI INFORMATION WORD
+52	(34)	1 PDSCHLVL	CHANGE LEVEL OF MEMBER
+53		1 PDSSSIFB PDSFORCE	SSI FLAG BYTE A FORCE CONTROL CARD WAS USED WHEN EXECUTING THE IHGUAP PROGRAM
	1	PDSUSRCH	A CHANGE WAS MADE TO MEMBER BY THE INSTALLATION, AS OPPOSED TO AN
	1	PDSEMFIX	IBM-DISTRIBUTED CHANGE SET WHEN AN EMERGENCY IBM-AUTHORIZED PROGRAM 'FIX' IS MADE, AS OPPOSED TO CHANGES THAT ARE INCLUDED IN AN IBM-DISTRIBUTED MAINTENANCE
	1.	PDSDEPCH	PACKAGE
	1	1. PDSSYSGN	
	1	PDSNOSGN 1. PDSCMSGN PDSPTSGN .1 PDSIBMMB	NOT CRITICAL FOR SYSTEM GENERATION MAY REQUIRE COMPLETE REGENERATION MAY REQUIRE PARTIAL REGENERATION
+54	(36)	2 PDSMBRSN	MEMBER SERIAL NUMBER
	Т	HE FOLLOWING	SECTION IS FOR APF INFORMATION
+56	(38)	2 PDSAPF	PROGRAM AUTHORIZATION FACILITY (APF) FIELD
+56	(38)	1 PDSAPFCT	LENGTH OF PROGRAM AUTHORIZATION CODE (PDSAPFAC) IN BYTES
+57	(39)	1 PDSAPFAC	PROGRAM AUTHORIZATION CODE

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DEALIAS DEENTBK DELODY DEOVLY DEREEN DESCAT DEXCUT PDSAOSLE PDSAPFAC PDSAPFAC PDSAPFIG PDSAPFIG PDSCHLVL PDSCMSGN PDSCHLVL PDSCMSGN PDSTORCE PDSIBMMB PDSMBRSN PDSNOSGN PDSSIFB PDSSSIFB PDSSIFB PDSSYSGN PDSSYSGN PDSSYSGN PDSSATR PDS2ATR PDS2ATR PDS2ATR PDS2ATR PDS2EPA PDS2EPA PDS2EPA PDS2EPA PDS2EPB PDS2FTBL		PDS2SSI PDS2STOR PDS2TEST PDS2TTRN PDS2TTRP PDS2TTSZ PDS2USRD PDS2ZERO PDS21BLK	•		
PDS2SLSZ	+33 (21)				

Partitioned Data Set Directory Entry -- Format 2

This format of the partitioned data set (PDS) directory entry is received upon issuance of a BLDL macro instruction where the specified members are load modules produced by the linkage editor.

OFF	SET LE	NGTI	H NAME	DESCRIPTION
+0	(0)	8	PDS2NAME	LOAD MODULE MEMBER NAME OR ALIAS
+8	(8)	3	PDS2TTRP	TTR OF FIRST BLOCK OF NAMED MEMBER
+11	(B)	1	PDS2CNCT	CONCATENATION NUMBER OF THE DATA SET
+12			PDS2LIBF PDS2LNRM PDS2LLNK	LIBRARY FLAG FIELD NORMAL CASE IF DCB OPERAND IN BLDL MACRO INTRUCTION WAS SPECIFIED AS ZERO, NAME WAS FOUND IN LINK LIBRARY
	••••	.1.	PDS2LJOB	IF DCB OPERAND IN BLDL MACRO INTRUCTION WAS SPECIFIED AS ZERO, NAME WAS FOUND IN JOB LIBRARY
+13	1 1 .11		PDS2INDC PDS2ALIS DEALIAS PDS2NTTR	INDICATOR BYTE NAME IN THE FIRST FIELD IS AN ALIAS ALIAS FOR PDS2ALIS NUMBER OF TTR'S IN THE USER DATA FIELD
4.		111	PDS2LUSR	LENGTH OF USER DATA FIELD IN HALF WORDS
+14	(E)	_	PDS2USRD	START OF VARIABLE LENGTH USER DATA FIELD
+14	(E)		PDS2TTRT	TTR OF FIRST BLOCK OF TEXT
+17	(11)			ZERO
+18	(12)	3	PDS2TTRN	TTR OF NOTE LIST OR SCATTER/TRANSLATION TABLE. USED FOR MODULES IN SCATTER LOAD FORMAT OR OVERLAY STRUCTURE ONLY.
+21	(15)	1	PDS2NL	NUMBER OF ENTRIES IN NOTE LIST FOR MODULES IN OVERLAY STRUCTURE, OTHERWISE ZERO
+22	(16)	2	PDS2ATR	TWO-BYTE MODULE ATTRIBUTE FIELD
+22	1	 1 11	PDS2RENT DEREEN PDS2REUS PDS2OVLY DEOVLY PDS2TEST PDS2LOAD DELODY PDS2SCTR DESCAT PDS2EXEC	FIRST BYTE OF MODULE ATTRIBUTE FIELD REENTERABLE ALIAS FOR PDS2RENT REUSABLE IN OVERLAY STRUCTURE ALIAS FOR PDS2OVLY MODULE TO BE TESTED - TESTRAN ONLY LOADABLE ALIAS FOR PDS2LOAD SCATTER FORMAT ALIAS FOR PDS2SCTR EXECUTABLE ALIAS FOR PDS2EXEC IF ZERO, MODULE CONTAINS MULTIPLE RECORDS WITH AT LEAST ONE BLOCK OF TEXT IF ONE, MODULE CONTAINS NO RLD ITEMS AND ONLY ONE BLOCK OF TEXT.
+23	1	•••	PDS2ATR2 PDS2FLVL PDS2ORG0	SECOND BYTE OF MODULE ATTRIBUTE FIELD IF ZERO, MODULE CAN BE PROCESSED BY ALL LEVELS OF LINKAGE EDITOR IF ONE, MODULE CAN BE PROCESSED ONLY BY F LEVEL OF LINKAGE EDITOR. LINKAGE EDITOR ASSIGNED ORIGIN OF FIRST BLOCK OF TEXT IS ZERO.
			PDS2EP0	ENTRY POINT ASSIGNED BY LINKAGE EDITOR IS ZERO
	1 .		PDS2NRLD PDS2NREP	MODULE CONTAINS NO RLD ITEMS MODULE CANNOT BE REPROCESSED BY LINKAGE EDITOR
		1	PDS2TSTN	MODULE CONTAINS TESTRAN SYMBOL CARDS

OF	SET LE	NGTE	H NAME	DESCRIPTION
		.1.	PDS2LEF PDS2REFR	MODULE CREATED BY LINKAGE EDITOR F REFRESHABLE MODULE
+24	(18)	3	PDS2STOR	TOTAL CONTIGUOUS MAIN STORAGE REQUIREMENT OF MODULE
+27	(1B)	2	PDS2FTBL	LENGTH OF FIRST BLOCK OF TEXT
+29	(1D)	3	PDS2EPA	ENTRY POINT ADDRESS ASSOCIATED WITH MEMBER NAME OR WITH ALIAS NAME IF ALIAS INDICATOR IS ONE
+32	(20)	3	PDS2FTBO	FLAG BYTES (VS USE OF FIELD)
+32	(20)		PDS2FTB1 PDSAOSLE	BYTE 1 OF PDS2FTBO MODULE HAS BEEN PROCESSED BY VS LINKAGE EDITOR
	1	BECO	OMES NECESSA	D TO INDICATE ANOTHER EXPANSION WHEN IT RY PAGE ALIGNMENT REQUIRED FOR LOAD MODULE SSI INFORMATION PRESENT INFORMATION IN PDSAPF IS VALID
+33	(21)	1	PDS2FTB2	BYTE 2 OF PDS2FTBO
+34	(22)	1	PDS2FTB3	BYTE 3 OF PDS2FTBO
		THE	FOLLOWING S	ECTION IS FOR LOAD MODULES WITH SCATTER LOAD
+35	(23)	2	PDS2SLSZ	NUMBER OF BYTES IN SCATTER LIST
+37	(25)	2	PDS2TTSZ	NUMBER OF BYTES IN TRANSLATION TABLE
+39	(27)	2	PDS2ESDT	IDENTIFICATION OF ESD ITEM (ESDID) OF CONTROL SECTION TO WHICH FIRST BLOCK OF TEXT BELONGS
+41	(29)	2	PDS2ESDC	IDENTIFICATION OF ESD ITEM (ESDID) OF CONTROL SECTION CONTAINING ENTRY POINT
		THE	FOLLOWING S	ECTION IS FOR LOAD MODULES WITH ALIAS NAMES
+43	(2B)	3	PDS2EPM	ENTRY POINT FOR MEMBER NAME
+46	(2E)	8	PDS2MNM	MEMBER NAME OF LOAD MODULE
			FOLLOWING ST F-WORD BOUND	ECTION IS FOR SSI INFORMATION AND IS ON A ARY
+54	(36)		PDSS03	FORCE HALF-WORD ALIGNMENT FOR SSI SECTION
+54	(36)	4	PDSSSIWD	SSI INFORMATION WORD
+54	(36)	1	PDSCHLVL	CHANGE LEVEL OF MEMBER
+55			PDSSSIFB PDSFORCE	SSI FLAG BYTE A FORCE CONTROL CARD WAS USED WHEN EXECUTING THE IHGUAP PROGRAM
	1	• • •	PDSUSRCH	A CHANGE WAS MADE TO MEMBER BY THE INSTALLATION, AS OPPOSED TO AN IBM-DISTRIBUTED CHANGE
	1 .	•••	PDSEMFIX	SET WHEN AN EMERGENCY IBM-AUTHORIZED PROGRAM 'FIX' IS MADE, AS OPPOSED TO CHANGES THAT ARE INCLUDED IN AN IBM-DISTRIBUTED MAINTENANCE PACKAGE
	1		PDSDEPCH	A CHANGE MADE TO THE MEMBER IS DEPENDENT UPON A CHANGE MADE TO SOME OTHER MEMBER IN THE SYSTEM
	••••	11.	PDSSYSGN	FLAGS THAT INDICATE WHETHER OR NOT A CHANGE TO THE MEMBER WILL NECESSITATE A PARTIAL OR COMPLETE REGENERATION OF THE SYSTEM
	• • • • •		PDSNOSGN PDSCMSGN	

OFF	SET I	LENGTH	<u>NAME</u>	DESCRIPTION
			PDSPTSGN PDSIBMMB	MAY REQUIRE PARTIAL REGENERATION MEMBER IS SUPPLIED BY IBM
+56	(38)	2	PDSMBRSN	MEMBER SERIAL NUMBER
		THE	FOLLOWING	SECTION IS FOR APF INFORMATION
+58	(3A)	2	PDSAPF	PROGRAM AUTHORIZATION FACILITY (APF) FIELD
+58	(3A)	1	PDSAPFCT	LENGTH OF PROGRAM AUTHORIZATION CODE (PDSAPFAC) IN BYTES
+59	(3B)	1	PDSAPFAC	PROGRAM AUTHORIZATION CODE

NAME	OPPGPEG /	NAME	OFFICER /	NAME	OPPOPER /
NAME	OFFSETS/ EQU VALUE	<u>NAME</u>	OFFSETS/ EQU VALUE	<u>NAME</u>	OFFSETS/ EQU VALUE
DEALIAS	+13 X'80'	PDS2PAGA	+32 X'20'		
DEENTBK	*A* PDS2EPM	PDS2REFR	+23 X'01'		
DELODY	+22 X'08'	PDS2RENT	+22 X'80'		
DEOVLY	+22 X'20'	PDS2REUS	+22 X'40'		
DEREEN	+22 X'80'	PDS2SCTR	+22 X'04'		
DESCAT	+22 X'04'	PDS2SLSZ	+35 (23)		
DEXCUT	+22 X'02'	PDS2SSI	+32 X'10'		
DEZBYTE	*A* PDS2LIBF	PDS2STOR	+24 (18)		
PDSAOSLE	+32 X'80'	PDS2TEST	+22 X'10'		
PDSAPF	+58 (3A)	PDS2TSTN	+23 X'04'		
PDSAPFAC	+59 (3B) +58 (3A)	PDS2TTRN	+18 (12)		
PDSAPFCT PDSAPFLG	+32 X'08'	PDS2TTRP PDS2TTRT	+8 (8) +14 (E)		
PDSCHLVL	+54 (36)	PDS2TTSZ	+37 (25)		
PDSCMSGN	+55 X'02'	PDS2USRD	+14 (E)		
PDSDEPCH	+55 X'08'	PDS2ZERO	+17 (11)		
PDSEMFIX	+55 X'10'	PDS21BLK	+22 X'01'		
PDSFORCE	+55 X'40'				
PDSIBMMB	+55 X'01'				
PDSMBRSN	+56 (38)				
PDSNOSGN	+55 X'00'				
PDSPTSGN	+55 X'04'				
PDSSSIFB	+55 (37)				
PDSSSIWD	+54 (36)				
PDSSYSGN	+55 X'06'				
PDSS03	+54 (36)				
PDSUSRCH	+55 X'20'				
PDS2ALIS	+13 X'80'				
PDS2ATR	+22 (16)				
PDS2ATR1	+22 (16)				
PDS2ATR2 PDS2CNCT	+23 (17) +11 (B)				
PDS2EPA	+29 (1D)				
PDS2EPM	+43 (2B)				
PDS2EP0	+23 X'20'				
PDS2ESDC	+41 (29)				
PDS2ESDT	+39 (27)				
PDS2EXEC	+22 X'02'				
PDS2FLVL	+23 X'80'				
PDS2FTBL	+27 (1B)				
PDS2FTBO	+32 (20)				
PDS2FTB1	+32 (20)				
PDS2FTB2	+33 (21)				
PDS2FTB3	+34 (22)				
PDS2INDC	+13 (D) +23 X'02'				
PDS2LEF PDS2LIBF	+12 (C)				
PDS2LJOB	+12 (C) +12 X'02'				
PDS2LLNK	+12 X'01'				
PDS2LNRM	+12 X'00'				
PDS2LOAD	+22 X'08'				
PDS2LUSR	+13 X'1F'				
PDS2MNM	+46 (2E)				
PDS2NAME	+0 (0)				
PDS2NL	+21 (15)				
PDS2NREP	+23 X'08'				
PDS2NRLD	+23 X'10'				
PDS2NTTR	+13 X'60'				
PDS2ORG0 PDS2OVLY	+23 X'40' +22 X'20'				
FDSZUVLI	722 A 2U	EN	ID OF DDG		

Request Blocks

Request blocks are used by the supervisor for maintaining information concerning programs and routines. Other components of the control program may create request blocks and/or refer to information in them.

The following request blocks are shown:

- SVRB -Supervisor Request Block for transient SVC routines.
- SVRB Supervisor Request Block for resident SVC routines.
- IRB Interruption Request Block.
- SIRB System Interruption Request Block.
- PRB Program Request Block.
- TIRB Task Interruption Request Block.

OF	FSET I	LENGTH	H NAME	DESCRIPTION
-64	(-40)	56		RESERVED FOR FUTURE EXPANSION
-8	(-8)		RBPRFXST	START OF ASSIGNED FIELDS IN RB PREFIX
-8	(-8)		RBFLAGS1 RBSLOCK	FLAG BYTE INDICATES THAT THIS RB IS NON-DISPATCHABLE UNTIL THE SUPERVISOR LOCK (CVTSYLK) IS RESET (ALL RB'S)
	.1	••••	RBXWAIT	INDICATES THAT THE PROGRAM OPERATING UNDER THIS RB HAS ISSUED AN EXPLICIT (SVC) WAIT (ALL RB'S)
			RBABEND RBUPR	ABEND SVRB (SVRB-BOTH) INDICATES THAT ADDRESS OF A PIE HAS BEEN PLACED IN FIRST WORD OF RBEXSAVE AND A SUPERVISOR SPIE EXIT CAN BE SCHEDULED IF AN INVALID PAGE REFERENCE OCCURS (SVRB-BOTH)
		.1	RBASIR RBRSV001 RBRSV002 RBRSV003	ASIR IS RUNNING UNDER THIS RB RESERVED RESERVED RESERVED
-7	(-7)	3	RBRSV004	RESERVED
-4	(-4)	1	RBWCSA	NUMBER OF REQUESTS WAITING AT TIME OF TERMINATION (WAIT COUNT SAVE AREA) (ALL RB'S)
-3	(-3)	3	RBINTCDA	INTERRUPT CODE (ALL RB'S)
-3	(-3)	1	RBINLNTH	INSTRUCTION LENGTH CODE - 4 HIGH-ORDER BITS MUST BE ZERO (ALL RB'S)
-2	(-2)	2	RBINTCOD	INTERRUPT CODE (ALL RB'S)
0	(0)		RBPRFXND	END OF RB PREFIX
0	(0)	8	RBEXRTNM	EIGHT-CHARACTER NAME OF ERROR EXIT ROUTINE (SIRB)
0	(0)	4	RBPPSAV	ADDRESS OF PROBLEM PROGRAM REGISTER SAVE AREA (IRB)
0	(0)	1	RBTMFLD	INDICATORS FOR TIMER ROUTINES. WHEN THERE ARE NO TIMER ROUTINES, THIS FIELD IS ZERO. (IRB)
			RBTMQUE RBTMTOD	TIMER ELEMENT NOT ON QUEUE LOCAL TIME-OF-DAY OPTION IS USED
	1.			RESERVED
		1	RBRSV006 RBTMCMP	RESERVED INTERVAL HAS EXPIRED
		.1	RBTMIND2	EXIT SPECIFIED WITH TASK OR REAL REQUEST
			RBTMIND3 RBTREQ	TYPE OF REQUEST TASK REQUEST
		01	RBWREQ	WAIT REQUEST
1	(1)	11	RBRREQ RBPPSAV1	REAL REQUEST ADDRESS OF PROBLEM PROGRAM REGISTER SAVE AREA (IRB)
4	(4)	Д	RBABOPSW	AFTER EXECUTION OF TRANSIENT AREA HANDLER
4	(4)	4	RBABOFSW	ROUTINE - FOUR LOW-ORDER BYTES OF NAME OF REQUESTED ROUTINE (SVRB-TRANS) AFTER EXECUTION OF ABTERM ROUTINE - RIGHT HALF OF USER'S OLD PSW OTHERWISE - ZERO (SVRB-BOTH, IRB, PRB, TIRB)
8	(8)	2	RBSIZE	SIZE OF THIS RB IN DOUBLEWORDS (ALL RB'S)
10	(A)	2	RBSTAB	STATUS AND ATTRIBUTE BITS (ALL RB'S)
10	(A) XXX.	1	RBSTAB1 RBFTP	FIRST BYTE OF STATUS AND ATTRIBUTE BITS TYPE OF RB

OFF	SET	LENGTH	NAME	DESCRIPTION
	011. 010. 100. 110. 1	1	RBFTSVRB RBTRSVRB	PRB TIRB IRB SIRB SVRB IF RBTRSVRB=0 AND RBCDE=0, THEN TYPE 2 SVC IN NUCLEUS. IF RBTRSVRB=0 AND RBCDE1 NOT 0, THEN SECOND OR SUBSEQUENT LOAD OF TYPE 4 SVC IN FIXED OR MODIFIED LPA (RBCDE1 = ADDRESS OF CDE). IF RBTRSVRB=1 AND RBCDE1=0, THEN TYPE 3 OR FIRST LOAD OF TYPE 4 SVC IN PAGED, FIXED OR MODIFIED LPA. IF RBTRSVRB=1 AND RBCDE1 NOT 0, THEN SECOND OR SUBSEQUENT LOAD OF TYPE 4 SVC IN PAGED LPA (RBCDE1 = ADDRESS OF LPDE). ALIAS FOR RBTRSVRB INDICATES THAT AN ECB IS POINTING AT THE RB. A CHECKPOINT MAY BE TAKEN IN A USER EXIT FROM THIS SVC ROUTINE (SVRB-BOTH)
		1.	RBATNXIT RBRSV007	THIS IRB IS AN ATTENTION IRB RESERVED
11	1	1	RBSTAB2 RBTCBNXT RBFACTV	SECOND BYTE OF STATUS AND ATTRIBUTE BITS RBLINK FIELD POINTS TO TCB (ALL RB'S) IRB OR SIRB IS QUEUED TO TCB - PROGRAM IS ACTIVE
	1		RBATTN RBETXR RBUSIQE RBIQETP RBRQENR RBIRBAER RBIQENR RBIRBAIQ RBFDYN RBECBWT	EXITING PROGRAM IS AN ATTENTION EXIT (IRB) IRB IS FOR AN ETXR EXIT ROUTINE SAME AS RBETXR REQUEST QUEUE ELEMENT IS NOT TO BE RETURNED IRB HAS QUEUE ELEMENTS FOR ASYNCHRONOUSLY EXECUTED ROUTINES THAT ARE RQE'S IQE IS NOT TO BE RETURNED AT EXIT IRB HAS QUEUE ELEMENTS FOR ASYNCHRONOUSLY EXECUTED ROUTINES THAT ARE IQE'S RB STORAGE CAN BE FREED AT EXIT IF ZERO, WAIT FOR A SINGLE EVENT OR ALL OF A NUMBER OF EVENTS IF ONE, WAIT FOR A NUMBER OF EVENTS THAT IS LESS THAN THE TOTAL NUMBER OF EVENTS WAITING
12	(C)	4	RBEP	ENTRY POINT ADDRESS OF ASYNCHRONOUSLY EXECUTED ROUTINE (IRB, SIRB)
12	(C)	4	RBCDE	SAME AS RBCDE1 BELOW (FOR SVRB-BOTH AND PRB)
12	.1.	1	RBCDFLGS RBRSV008 RBRSV009 RBCDATCH	CONTROL FLAGS (FOR SVRB -BOTH AND PRB) RESERVED RESERVED CONTENTS SUPERVISION HAS BEEN ENTERED VIA ATTACH
	• • • •	1	RBRSV010 RBCDNODE RBCDSYNC RBCDXCTL RBCDLOAD	RESERVED NO DE SAVE AREA REQUIRED SYNCH MACRO INSTRUCTION REQUESTED XCTL MACRO INSTRUCTION REQUESTED LOAD MACRO INSTRUCTION REQUESTED
13	(D)	3	RBCDE1	ADDRESS OF CDE, ADDRESS OF LPDE OR ZERO (SEE COMMENTS FOR BIT RBTRSVRB)
16	(10)	8	RBOPSW	USER'S OLD PSW (ALL RB'S)
24	(18)	4	RBPGMQ	SAME AS RBPGMQ1 BELOW
24	(18)	1		ZERO

OF	SET	LENGT	H NAME	DESCRIPTION			
25	(19)	3	RBPGMQ1	ADDRESS OF RB INDICATING A REQUEST TO USE SAME SERIALLY REUSABLE PROGRAM (SVRB-RES, PRB)			
24	(18)	4	RBSQE	SAME AS RBSQEA BELOW (TIRB)			
24	(18)	1		RBUSE - CONTAINS ZEROS (TIRB)			
25	(19)	3	RBSQEA	CHAIN OF SUPERVISOR QUEUE ELEMENTS (SQE'S) WHICH REPRESENT ASYNCHRONOUS SUPERVISOR SERVICE REQUESTS RELATED TO TCB UNDER WHICH TIRB IS PRESENTLY OPERATING (TIRB)			
		3-B	YTE LINK FIE	LD SEGMENT			
24	(18)	4	RBIQE	LIST ORIGIN FOR IQE (IRB)			
24	(18)	1	RBUSE	USE COUNT USED BY ATTACH (IRB)			
25	(19)	3	RBIQE1	LIST ORIGIN FOR IQE (IRB)			
24	(18)	4	RBIQE2				
24	(18)	2	RBRSV011	RESERVED			
26	(1A)	2	RBIQEA	LIST ORIGIN FOR RQE (IRB WITH 2-BYTE LINK FIELD SEGMENT, SIRB)			
28	(1C)	4	RBLINK	SAME AS FOR RBLINKB BELOW			
28	(1C)	1	RBWCF	NUMBER OF REQUESTS WAITING (WAIT COUNT) (ALL RB'S)			
29	(1D)	3	RBLINKB	ADDRESS OF PREVIOUS RB, OR ADDRESS OF TCB WHEN THIS IS FIRST RB ON THE QUEUE (ALL RB'S)			
32	(20)	4	PRBEND	END OF PRB			
32	(20)	4	SIRBEND	END OF SIRB			
32	(20)	64	RBGRSAVE	GENERAL REGISTER SAVE AREA (SVRB-BOTH, IRB, TIRB)			
32	(20)	4	RBGRS0	SAVE AREA FOR GENERAL REGISTER 0			
36	(24)	4	RBGRS1	SAVE AREA FOR GENERAL REGISTER 1			
40	(28)	4	RBGRS2	SAVE AREA FOR GENERAL REGISTER 2			
44	(2C)	4	RBGRS3	SAVE AREA FOR GENERAL REGISTER 3			
48	(30)	4	RBGRS4	SAVE AREA FOR GENERAL REGISTER 4			
52	(34)	4	RBGRS5	SAVE AREA FOR GENERAL REGISTER 5			
56	(38)	4	RBGRS6	SAVE AREA FOR GENERAL REGISTER 6			
60	(3C)	4	RBGRS7	SAVE AREA FOR GENERAL REGISTER 7			
64	(40)	4	RBGRS8	SAVE AREA FOR GENERAL REGISTER 8			
68	(44)	4	RBGRS9	SAVE AREA FOR GENERAL REGISTER 9			
72	(48)	4	RBGRS10	SAVE AREA FOR GENERAL REGISTER 10			
76	· (4C.)	4	RBGRS11	SAVE AREA FOR GENERAL REGISTER 11			
80	(50)	4	RBGRS12	SAVE AREA FOR GENERAL REGISTER 12			
84	(54)	4	RBGRS13	SAVE AREA FOR GENERAL REGISTER 13			
88	(58)	4	RBGRS14	SAVE AREA FOR GENERAL REGISTER 14			
92	(5C)	4	RBGRS15	SAVE AREA FOR GENERAL REGISTER 15			
96	(60)	4	TIRBEND	END OF TIRB			
96	(60)	4	IRBEND	END OF IRB UNLESS OPTIONAL FIELDS RBNEXAV AND RBIQEWRK ARE PRESENT			

OFF	SET I	LENGT	H NAME	DESCRIPTION
	FOI	LLOWI	NG TWO 8 B	YTE FIELDS PRESENT ONLY IF REQUESTED
96	(60)	4	RBNEXAV	ADDRESS OF NEXT AVAILABLE IQE (IRB)
100	(64)	4	RBIQEWRK	IQE WORK SPACE, VARIABLE LENGTH, MAXIMUM SIZE IS 1984 BYTES (IRB)
96	(60)	48	RBEXSAVE	EXTENDED SAVE AREA FOR SVC ROUTINES (SVRB-BOTH)
144	(90)	4	SVRBEND	END OF SVRB (BOTH)

VI VI	07797777 /	******			
NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	-64 (-40)	RBIQE2	24 (18)		
	24 (18)	RBIRBAER	11 X'04'		
	24 (18)	RBIRBAIQ	11 X'0C'		
IRBEND	96 (60)	RBLINK	28 (1C)		
PRBEND	32 (20)	RBLINKB	29 (1D)		
RBABEND	-8 X'20'	RBNEXAV	96 (60)		
RBABOPSW	4 (4)	RBOPSW	16 (10)		
RBASIR RBATNXIT	-8 X'08'	RBPGMQ	24 (18)		
RBATTN	10 X'02' 11 X'20'	RBPGMQ1 RBPPSAV	25 (19) 0 (0)		
RBCDATCH	12 X'20'	RBPPSAV1	0 (0) 1 (1)		
RBCDE	12 (C)	RBPRFXND	0 (0)		
RBCDE1	13 (D)	RBPRFXST	-8 (-8)		
RBCDFLGS	12 (C)	RBRQENR	11 X'00'		
RBCDLOAD	12 X'01'	RBRREQ	0 X'03'		
RBCDNODE	12 X'08'	RBRSV001	-8 X'04'		
RBCDSYNC	12 X'04'	RBRSV002	-8 X'02'		
RBCDXCTL	12 X'02'	RBRSV003	-8 X'01'		
RBECBWT RBEP	11 X'01' 12 (C)	RBRSV004 RBRSV005	-7 (-7) 0 X'20'		
RBETXR	12 (C) 11 X'10'	RBRSV005	0 X 20 0 X'10'		
RBEXRTNM	0 (0)	RBRSV007	10 X'01'		
RBEXSAVE	96 (60)	RBRSV008	12 X'80'		
RBFACTV	11 X'40'	RBRSV009	12 X'40'		
RBFDYN	11 X'02'	RBRSV010	12 X'10'		
RBFLAGS1	-8 (-8)	RBRSV011	24 (18)		
RBFNSVRB	10 X'10'	RBSIZE	8 (8)		
RBFTCKPT	10 X'04'	RBSLOCK	-8 X'80'		
RBFTIRB RBFTP	10 X'40' 10 X'EO'	RBSQE	24 (18) 25 (19)		
RBFTPRB	10 X E0	RBSQEA RBSTAB	10 (A)		
RBFTSIRB	10 X'80'	RBSTAB1	10 (A)		
RBFTSVRB	10 X'CO'	RBSTAB2	11 (B)		
RBFTTIRB	10 X'60'	RBTCBNXT	11 X'80'		
RBGRSAVE	32 (20)	RBTMCMP	0 X'08'		
RBGRS0	32 (20)	RBTMFLD	0 (0)		
RBGRS1	36 (24)	RBTMIND2	0 X'04'		
RBGRS10 RBGRS11	72 (48) 76 (4C)	RBTMIND3	0 X'03' 0 X'80'		
RBGRS12	80 (50)	RBTMQUE RBTMTOD	0 X 80 0 X'40'		
RBGRS 13	84 (54)	RBTREQ	0 X'00'		
RBGRS14	88 (58)	RBTRSVRB	10 X'10'		
RBGRS15	92 (5C)	RBUPR	-8 X'10'		
RBGRS2	40 (28)	RBUSE	24 (18)		
RBGRS3	44 (2C)	RBUSIQE	11 X'10'		
RBGRS4	48 (30)	RBWAITP	10 X'08'		
RBGRS5 RBGRS6	52 (34) 56 (38)	RBWCF RBWCSA	28 (1C) -4 (-4)		
RBGRS7	60 (3C)	RBWREO	0 X'01'		
RBGRS8	64 (40)	RBXWAIT	-8 X'40'		
RBGRS9	68 (44)	SIRBEND	32 (20)		
RBINLNTH	-3 (-3)	SVRBEND	144 (90)		
RBINTCDA	-3 (-3)	TIRBEND	96 (60)		
RBINTCOD	-2 (-2)				
RBIQE RBIQEA	24 (18) 26 (1A)				
RBIQENR	11 X'08'				
RBIQETP	11 X'0C'				
RBIQEWRK	100 (64)				
RBIQE1	25 (19)				
		EÌ	ND OF RB		

Secondary Communication Vector Table

The secondary communication vector table (SCVT) can be used by nonresident routines to refer to routines used by the supervisor, by ABEND, and other control program components. The address of the SCVT is located in the CVTABEND field of the communication vector table.

OF	FSET	LENGT	H NAME	DESCRIPTION
0	(0)	4	SCVTPGTM	ADDR OF EOT TIMER PURGE ROUTINE (IEAQPGTM)
4	(4)	4	SCVTPGWR	ADDR OF WTOR PURGE ROUTINE (IEECVPRG)
8	(8)	4	SCVTSPET	ADDR OF EOT SUBPOOL RELEASE (IEAQSPET)
12	(C)	4		RESERVED
16	(10)	4	SCVTERAS	ADDR OF EOT ERASE PHASE (IEAQERA)
20	(14)	4	SCVTQCBO	ADDR OF QCB ORIGIN (IEAQQCB0)
24	(18)	4	SCVTPGEQ	ADDR OF ENQ/DEQ ROUTINE (IEA0EQ01)
28	(1C)	4	SCVTRMBR	ADDR OF REGMAIN BRANCH ENTRY (RMBRANCH)
32	(20)	4	SCVTPGIO	ADDR OF I/O PURGE ROUTINE (IGC016)
36	(24)	4	SCVTRACE	ADDR OF POINTER TO TRACE ROUTINE
40	(28)	4	SCVTTASW	ADDR OF TASK SWITCHING ROUTINE (IEAODS02)
44	(2C)	4	SCVTCDCL	ADDR OF CDCONTROL IN LINK (IEAQCS02)
48	(30)	4	SCVTLFRM	LIST FORMAT FREEMAIN BRANCH ENTRY POINT (FMBRANCH)
52	(34)	4	SCVTPABL	ADDR OF REL LOADED PROGS IN EOT (IEAQABL)
56	(38)	4	SCVTDQTC	ADDR OF TCB DEQ ROUTINE IN EOT (IEADQTCB)
60	(3C)	4	SCVTHSKP	ADDR OF CDHKEEP IN EOT (CDHKEEP)
64	(40)	4	SCVTRPTR	ADDR OF TRACE TABLE POINTERS
68	(44)	4	SCVTGMBR	LIST FORMAT GETMAIN BRANCH ENTRY POINT (GMBRANCH)
72	(48)	4		RESERVED
76	(4C)	4		RESERVED
80	(50)	4		RESERVED
84	(54)	4		RESERVED
88	(58)	4		RESERVED
92	(50)	4	SCVTCOMM	ADDR OF COMM TASK ROUTINE
96	(60)	4		RESERVED
100	(64)	4		RESERVED
104	(68)	4	SCVTRMTC	ADDR OF RMS TCB (IGFRMTCB)
108	(6C)	4	SCVTMSSQ	ORIGIN OF MAIN STORAGE QUEUES (GOVRFLB)
112	(70)	4	SCVTCTCB	ADDR OF COMM TASK TCB (IEECVTCB)
116	(74)	4	SCVTETCB	ADDR OF SYSTEM ERROR TCB (IEAERTCB)
120	(78)	4	SCVTRXLQ	ADDR OF RECOVERY EXTENT LIST
124	(7C)	4	SCVTRQND	ADDR OF END OF I/O RQE TABLE (IECITSAR)
128	(80)	4 .		RESERVED
132	(84)	4	SCVTSVCT	ORIGIN OF SVC TABLE (IBMORG)
136	(88)	4	SCVTSTXP	ADDR OF STAX PURGE ROUTINE (IEAKJXP)
140	(8C)	4	SCVTTQE	ADDR OF TSO SUBSYSTEM'S TQE (IEATSELM)
144	(90)	4	SCVTRMSV	ADDR OF RMS SVC 85 INSTRUCTION (IORMSSVC)
148	(94)	4	SCVTSTAT	ADDR OF SVC STATUS ROUTINE (IGC07902)
152	(98)	4	SCVTQCBR	BRANCH ENTRY POINT TO GETMAIN/ FREEMAIN QUICKCELL ROUTINE (QCBRANCH)

OFF	SET	LENGT	H NAME	DESCRIPTION
156	(9C)	4	SCVTABBR	ADDR OF R-TYPE FREEMAIN ENTRY POINT (ABBRANCH) THAT, WHEN UNSUCCESSFUL, RESULTS IN A REGISTER 15 RETURN CODE INSTEAD OF AN ENTRY TO ABTERM (ABBRANCH)
160	(AO)	4	SCVTAPIO	ENTRY POINT ADDRESS (IGC016AP) IN PURGE ROUTINE WHICH MUST BE USED WHEN SECOND EXITS HAVE BEEN BLOCKED FOR A SPECIFIED TASK. THIS ALLOWS PURGE TO PERFORM ITS FUNCTIONS WITHOUT HAVING TO EXPLICITLY WAIT ON A FIX REQUEST TO COMPLETE. (IGC016AP)
164	(A4)	4	SCVTPTRM	ADDR OF PAGING SUPERVISOR ROUTINE (IEAPTERM) TO QUIESCE ASYNCHRONOUS OR SYNCHRONOUS PAGING-IN, FIX, OR MIGRATION REQUESTS (IEAPTERM)
168	(88)	4	SCVTHOOK	ADDR OF PAGING SUPERVISOR ROUTINE (PAGEHOOK) THAT ATTEMPTS TO RECOVER ITS ABENDS
172	(AC)	4	SCVTPIQE	ADDR OF RESIDENT SUBROUTINE IN EOT TO REMOVE IQE'S FROM ASYNCHRONOUS EXIT QUEUE (IEADQIQE)
176	(B0)	4	SCVTTMBR	BRANCH ENTRY POINT TO THE TIME ROUTINE TO OBTAIN THE TOD IN TIMER UNITS (IGC011)
180	(B4)	4	SCVTFOMG	ADDRESS OF PAGING SUPERVISOR FOE MERGE SUBROUTINE (IEAPSI5)

NAME	OFFSETS/ EQU VALU	<u>NAME</u>	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
SCVTABBR SCVTAPIO SCVTCDCL SCVTCOMM SCVTCTCB SCVTERAS SCVTETCB SCVTFOMG SCVTFOMG SCVTGMBR SCVTHOOK SCVTHSKP SCVTHSKP SCVTHSKP SCVTPGEQ SCVTPABL SCVTPGEQ SCVTPGTM	•		·	NAME	•
SCVTPGWR SCVTPIQE SCVTPTRM	4 (4) 172 (AC) 164 (A4)				
SCVTQCBO SCVTQCBR	20 (14) 152 (98)				
SCVTRACE SCVTRMBR	36 (24) 28 (1C)				
SCVTRMSV SCVTRMTC	144 (90) 104 (68)				
SCVTRPTR	64 (40)				
SCVTRQND	124 (7C)				
SCVTRXLQ	120 (78)				
SCVTSPET	8 (8)				
SCVTSTAT	148 (94)				
SCVTSTXP SCVTSVCT	136 (88) 132 (84)				
SCVTTASW	40 (28)				
SCVTTMBR	176 (B0)				
SCVTTQE	140 (8C)				

System Management Facilities Control Table

The system management control area (SMCA) contains information used by the system management facilities (SMF) feature.

The SMCA contains the SMFDEFLT options, the SYS1.MANX and SYS1.MANY data set descriptions, SMF ECBs, and other information used by SMF modules.

The CVTSMCA field of the communication vector table points to the SMCA.

OF	FSET	LENGTH	H NAME	DESCRIPTION
0	(0)	1	SMCAOPT	SMF OPTIONS SELECTED SET AT INITIALIZATION TIME
	.1		SMCAOPT1 SMCAOPT2 SMCAEXT	JOB ACCOUNTING STEP ACCOUNTING DYNAMIC EXITS
	1	1	SMCADSA SMCAVOL	DATASET ACCOUNTING VOLUME ACCOUNTING
		.1	SMCATDS	RESERVED TEMPORARY DATA SETS SMF FOREGROUND OPTS BIT ZERO- ABOVE
	••••	1	SMCARGND	BITS DESCRIBE BACKGROUND OPTIONS ONE - ABOVE BITS DESCRIBE FOREGROUND OPTIONS
1			SMCAMISC SMCAUSER	MISCELLANEOUS INDICATORS SMF RECORDING REQUESTED
			SMCAMAN	SYS1.MAN DATA SET PRESENT BITS 0 AND 1 MEAN 00 - NO RECORDING 01 - USER RECORD ONLY 10 - INVALID COMBINATION 11 - SMF AND USER RECORDING
	_		SMCAOPI SMCAFIRT	OPI = YES INDICATOR INDICATES PRIMARY TO BE OPENED
		1	SMCAPSDP	PSEUDO-DUMP SWITCH, (DEVICE SWITCHING ONLY)
		.1	SMCADBSY SMCABSW	DUMP BUSY - USED BY WRITER ONLY BUFFER SWITCH 0 - LEFT HALF, 1 - RIGHT HALF
			SMCADUMP	DUMP BUSY
2	(2)	2	SMCATOFF	SMF TIOT OFFSET FROM BEGINNING OF MASTER SCHEDULER TIOT
4	(4)	4	SMCATIOT	POINTER TO MASTER SCHEDULER TIOT
		THE	FOLLOWING F	IELDS ARE SET UP BY IPL INITIALIZATION
8	(8)	4	SMCAJWT	JOB WAIT TIME LIMIT - IN 26 USEC TIMER UNITS
12	(C)	4	SMCABUF	SMF BUFFER SIZE - IN BYTES AT INITIALIZATION, IT CONTAINS BUF=VALUE
12	(C)	4	SMCABSIZ	AFTER IPL, IT CONTAINS THE BUFFER WORKING SIZE
16	(10)	2	SMCASID	SYSTEM IDENTIFICATION
18	(12)	2	SMCAMDL	CPU MODEL NUMBER
20	(14)	4	SMCABUFP	SMF STARTING BUFFER CORE POINTER
		SMF DEV		ACTERISTICS PRIMARY OR CURRENT RECORDING
24	(18)	6	SMCAPDEV	VOLUME SERIAL NUMBER
30		1	SMCAPSTA SMCAPNAV	DEVICE STATUS DATASET NOT AVAILABLE
			SMCAPTAP	TAPE DEVICE
			SMCAPDA SMCAPMTY	DIRECT ACCESS DEVICE DATASET EMPTY SWITCH
		1	SMCAMOD	OPEN MOD INDICATOR
		.1	SMCARS02 SMCAPUNT	RESERVED DEVICE ADDRESS IS DEFINED
		1	SMCAPVOL	VOLUME SERIAL NO. IS DEFINED
31	(1F)	3	SMCAPDAR	DEVICE ADDRESS - IN EBCDIC
34	(22)		SMCAPLBL	LABEL STATUS
			SMCARS03 SMCARS04	RESERVED RESERVED
			SMCARS05	RESERVED
	1	• • • •	SMCARS06	RESERVED

OFF	SET	LENGTH	H NAME	DESCRIPTION
	• • • •	1 .1 1.	SMCAPNSL	RESERVED NON-STANDARD LABEL (NSL) STANDARD LABEL (SL) NO LABEL (NL)
35	(23)	1	SMCAXORY	EBCDIC X OR Y CORRESPONDING TO DATA SET THAT IS TO RECEIVE THIS ENTRY
36	(24)	4	SMCAPDCB	POINTER TO PRIME DCB
		ALTE	ERNATE OR OT	HER DEVICE
40	(28)	6	SMCAADEV	VOLUME SERIAL NUMBER
46	(2E)	1	SMCASTA	DEVICE STATUS
47	(2F)	3	SMCAADAR	DEVICE ADDRESS
50	(32)	1	SMCAALBL	LABEL STATUS
51	(33)	1	SMCAYORX	EBCDIC X OR Y CORRESPONDING TO DATA SET THAT IS TO RECEIVE THIS ENTRY
52	(34)	4	SMCAADCB	POINTER TO ALTERNATE DCB
		SMF	ECB'S	
56	(38)	4	SMCAWECB	WRITE REQUEST ECB. WAITED UPON BY THE SMF WRITER. POSTED BY IGC0008C WHEN A WRITE IS REQUESTED.
60	(3C)	4	SMCABECB	BUFFER ECB
64	(40)	4	SMCASGWR	COUNT OF RECORD SEGMENTS TO BE WRITTEN
68	(44)	4	SMCASGFT	COUNT OF RECORD SEGMENTS THAT FIT IN DATA SET
		MISC	CELLANEOUS P	OINTERS AND COMMUNICATION AREAS
72	(48)	8	SMCAWAIT	6 HOUR SYSTEM WAIT TIME FROM SUPERVISOR IN 26 USEC TIMER UNITS. FIRST WORD IS OVERFLOW FROM SECOND WORD
80	(50)	2	SMCAENTY	THESE SWITCHES GOVERN ENTRY CONDITIONS FOR DEVICE SWITCHING/ALLOCATION/ OPENING ROUTINES
80	.1	1	SMCARS15 SMCARS16 SMCARS17 SMCARS18	A COMMUNICATION FIELD RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED IF ZERO, DATA SET (X OR Y) WAS FOUND. IF ONE, DATA SET (X OR Y) WAS NOT FOUND.
81	(51)	1	SMCAENOP	ENTRY CODE THAT INDICATES WHICH LOAD OF SVC 83 HAS PASSED CONTROL TO CURRENT LOAD
82	(52)	1	SMCAFOPT	SMF OPTIONS IN TSO/SMF FOREGROUND. BIT SETTINGS ARE SAME AS SMCAOPT.
83	(53)	1	SMCAENAL	*
84	(54)	4	SMCAWRTP	OPTIMUM BUFFER WRITE POINT
		XCT]	L REMOTE LIS	T USED BY SVC 83
88	(58)	4	SMCAXCTL	POINTER TO XCTL NAME
92	(5C)	4		DCB POINTER (ALWAYS ZERO)
96	(60)	8	SMCAXNAM	XCTL NAME

OFF	SET	LENGTI	H NAME	DESCRIPTION
104	.1	.1	SMCASWA SMCASWAR SMCADSTR SMCAOPFL SMCANADA SMCANAVL SMCAZEOD SMCADSSP	SWITCHES RESERVED DISASTER BIT SMF DATASET OPEN FAILURE NEXT ALLOCATION MUST BE DIRECT ACCESS NEXT ALLOCATION MUST BE BY VOLUME SERIAL HALT EOD BIT DATASET SPACE CHECK BIT
105	(69)	1	SMCADSSW SMCASWB	DATASET SWITCH BIT SPARE
106	(6A)	1	SMCASWC	SPARE
107	(6B)	1	SMCASWD	SPARE
108	(6C)	8	SMCADSTM	TIME OF DISASTER
116	(74)	4	SMCADSCT	COUNT OF LOST RECORDS
120	(78)	2	SMCAPOST	RESERVED
122	(7A)	2	SMCATJID	CURRENT TASK TJID
124	(7C)	4	SMCARS21	RESERVED
128	(80)	4	SMCARS22	RESERVED
132	(84)	4	SMCATEXP	TIME OF MOST RECENT EXPIRATION OF TEN-MINUTE TQE
136	(88)	4	SMCAPGIN	NUMBER OF PAGE-INS
140	(8C)	4	SMCAPGOT	NUMBER OF PAGE-OUTS
144	(90)	4	SMCAPGRL	NUMBER OF PAGES RECLAIMED
148	(94)	4	SMCARGNS	NUMBER OF REGIONS SWAPPED IN AND OUT
152	(98)	4	SMCASPIN	NUMBER OF SWAP PAGE-INS
156	(9C)	4	SMCASPOT	NUMBER OF SWAP PAGE-OUTS
160	(AO)	4	SMCARGNM	NUMBER OF REGIONS MIGRATED
164	(A4)	4	SMCAPGM	NUMBER OF PAGES MIGRATED
168	(A8)	4	SMCAU83	ADDRESS OF SMF OUTPUT EXIT (IEFU83) TAKEN WHEN RECORDS ARE TO BE WRITTEN TO SMF DATA SET

NAME	OFFSETS/	NAME	OFFSETS/	NAME	OFFSETS/
	EQU VALUE	-11 11 11	EQU VALUE	147.111	EQU VALUE
CMCAADAD	92 (5C)	SMCARGNS	148 (94)		
SMCAADAR	47 (2F)	SMCARS01 SMCARS02	0 X'04'		
SMCAADCB SMCAADEV	52 (34) 40 (28)	SMCARS02 SMCARS03	30 X'04' 34 X'80'		
SMCAALBL	50 (32)	SMCARS03	34 X'40'		
SMCABECB	60 (3C)	SMCARS05	34 X'20'		
SMCABSIZ	12 (C)	SMCARS06	34 X'10'		
SMCABSW	1 X'02'	SMCARS07	34 X'08'		
SMCABUF	12 (C)	SMCARS14	80 X'80'		
SMCABUFP	20 (14)	SMCARS15	80 X'40'		
SMCADBSY	1 X'04'	SMCARS16	80 X'20'		
SMCADSA	0 X'10'	SMCARS17	80 X'10'		
SMCADSCT	116 (74)	SMCARS18	80 X'08'		
SMCADSNF	80 X'01'	SMCARS19	80 X'04'		
SMCADSSP SMCADSSW	104 X'02' 104 X'01'	SMCARS20 SMCARS21	80 X'02'		
SMCADSTM	104 X 01	SMCARS21	124 (7C) 128 (80)		
SMCADSTR	104 X'40'	SMCASGFT	68 (44)		
SMCADUMP	1 X'01'	SMCASGWR	64 (40)		
SMCAENAL	83 (53)	SMCASID	16 (10)		
SMCAENDI	80 (50)	SMCASPIN	152 (98)		
SMCAENOP	81 (51)	SMCASPOT	156 (9C)		
SMCAENTY	80 (50)	SMCASTA	46 (2E)		
SMCAEXT	0 X'20'	SMCASWA	104 (68)		
SMCAFGND	0 X'01'	SMCASWAR	104 X'80'		
SMCAFIRT SMCAFOPT	1 X'10' 82 (52)	SMCASWB	105 (69)		
SMCAJWT	8 (8)	SMCASWC SMCASWD	106 (6A) 107 (6B)		
SMCAMAN	1 X'40'	SMCATDS	0 X'02'		
SMCAMDL	18 (12)	SMCATEXP	132 (84)		
SMCAMISC	1 (1)	SMCATIOT	4 (4)		
SMCAMOD	30 X'08'	SMCATJID	122 (7A)		
SMCANADA	104 X'10'	SMCATOFF	2 (2)		
SMCANAVL	104 X'08'	SMCAUSER	1 X'80'		
SMCAOPFL	104 X'20'	SMCAU83	168 (A8)		
SMCAOPI SMCAOPT	1 X'20' 0 (0)	SMCAVOL	0 X'08'		
SMCAOPT1	0 (0) 0 x'80'	SMCAWAIT SMCAWECB	72 (48) 56 (38)		
SMCAOPT2	0 X'40'	SMCAWRTP	84 (54)		
SMCAPDA	30 X'20'	SMCAXCTL	88 (58)		
SMCAPDAR	31 (1F)	SMCAXNAM	96 (60)		
SMCAPDCB	36 (24)	SMCAXORY	35 (23)		
SMCAPDEV	24 (18)	SMCAYORX	51 (33)		
SMCAPGIN	136 (88)	SMCAZEOD	104 X'04'		
SMCAPGM	164 (A4)				•
SMCAPGOT SMCAPGRL	140 (8C) 144 (90)				
SMCAPLBL	34 (22)				
SMCAPMTY	30 X'10'				
SMCAPNAV	30 X'80'				
SMCAPNL	34 X'01'				
SMCAPNSL	34 X'04'				
SMCAPOST	120 (78)				
SMCAPSDP	1 X'08'				
SMCAPSL	34 X'02'				
SMCAPSTA SMCAPTAP	30 (1E) 30 X'40'				
SMCAPUNT	30 X'40'				
SMCAPVOL	30 X'01'				
SMCARGNM	160 (A0)				
		ENI	O OF SMCA		

Task Control Block

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.

OF	FSET 1	LENGTI	H NAME	DESCRIPTION
TCB PREFIX				
-32	(-20)	32	TCBFRS	FLOATING POINT REGISTER SAVE AREA
-32	(-20)	8	TCBFRS0	SAVE AREA FOR FLOATING POINT REGISTER 0
-24	(-18)	8	TCBFRS2	SAVE AREA FOR FLOATING POINT REGISTER 2
-16	(-10)	8	TCBFRS4	SAVE AREA FOR FLOATING POINT REGISTER 4
-8	(8-)	8	TCBFRS6	SAVE AREA FOR FLOATING POINT REGISTER 6
		TCB	PROPER	
0	(0)	4	TCBRBP	PTR TO TOP RB ON RB CHAIN
4	(4)	4	TCBPIE	ADDR OF PROGRAM INTERRUPT ELEMENT (PIE)
4	(4)	1 1111	TCBPMASK TCBPM	SPIE BITS PROGRAM MASK AT TIME OF SPIE INITIATION. MASK RESTORED AT TIME OF SPIE NULLIFICATION.
5	(5)	3	TCBPIEA	ADDRESS OF PROGRAM INTERRUPT ELEMENT (PIE)
8	(8)	4	TCBDEB	ADDR OF THE DEB QUEUE
12	(C)	4	TCBTIO	ADDR OF THE TASK I/O TABLE (TIOT)
16	(10)	4	TCBCMP	TASK COMPLETION CODE
16	.1	1	TCBCMPF TCBCREQ TCBCSTEP TCBCPP	COMPLETION FLAGS A DUMP HAS BEEN REQUESTED A STEP ABEND HAS BEEN REQUESTED SECOND ABEND LOAD OVERLAID PP STORAGE (VS1) FOR FIRST LOAD OVERLAY SEE TCBFLGS
	1	1	TCBSTCC	COMPLETION CODE IS NOT TO BE STORED IN TCBCMPC SHOULD AN ABEND BE ENCOUNTERED. THIS PREVENTS AN OVERLAY OF ORIGINAL COMPLETION CODE. A DOUBLE ABEND HAS OCCURRED
		.1	TCBCWTO TCBCIND	DUMP MSG TO BE ISSUED TO OPR SCHEDULER TO PRINT INDICATIVE DUMP
	• • • •	1	TCBCMSG	ABEND MSG PROVIDED TO BE PRINTED BY ABDUMP
17	(11)	3	TCBCMPC	SYSTEM (FIRST 12 BITS) AND USER (SECOND 12) COMPLETION CODES
20	(14)	4	TCBTRN	ADDR OF CONTROL CORE TABLE
20	(14) 1	1		FLAG BYTE RESERVED
	.1	••••	TCBNOCHK	SUPPRESS TAKING CHECKPOINTS FOR THIS STEP (JOB STEP TCB)
	1.	• • • •	TCBGRPH	GRAPHICS FOREGROUND JOB OR GRAPHIC JOB PROCESSOR
	• • • •	1 .1 .1.	TCBRSV01 TCBTCPP TCBTCP TCBOLTEP	RESERVED TCAM POST-PENDING (RORI) TEST TASK - USED BY TEST SVC OLTEP FUNCTIONS REQUIRE CLEAN-UP BEFORE ABNORMAL TERMINATION CAN BE INVOKED
		1		RESERVED
21	(15)		TCBTRNB	ADDR OF CONTROL CORE TABLE
24	(18)	4	TCBMSS	ADDR OF THE BOUNDARY BOX (VS1) ADDR OF LAST SPQE ON MSS QUEUE (VS2)
24	(18)	1	TCBRSV03	RESERVED
25	(19)	3	TCBMSSB	ADDR OF THE BOUNDARY BOX (VS1) ADDR OF LAST SPQE ON MSS QUEUE (VS2)

OFE	SET	LENGT	H NAME	DESCRIPTION
28	XXX	x	TCBPKF TCBFLAG TCBZERO	STORAGE PROTECTION KEY PROTECTION KEY ZERO
29	(1D)	5	TCBFLGS	FLAGS
29	1	1		FIRST TCB FLAG BYTE ABNORMAL TERMINATION IN PROGRESS NORMAL TERMINATION IN PROGRESS ENTER ABEND ERASE ROUTINE WHEN IN CONTROL AGAIN (VS2)
	• • • •	1 . 1 1 1.	TCBPDUMP	RESERVED PREVENT DUMP INDICATOR (VS2) TOP TASK IN TREE BEING ABTERMED (VS2) ABTERM DUMP COMPLETED (VS2) ABEND OVERLAID PROBLEM PROGRAM STORAGE (VS1) PROHIBIT ASYNCHRONOUS EXIT QUEUEING
20				
30			TCBFLGS2 TCBFOINP	SECOND FLAG BYTE A VALUE OF 1 INDICATES THAT 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. (VS2)
	.1.		TCBFSTI	SECOND JOB STEP INTERVAL HAS EXPIRED (VS2 INITIATOR TCB)
	1		TCBFABOP	A VALUE OF 1 INDICATES THAT THE SYSABEND DUMP DATA SET HAS BEEN OPENED FOR ABEND. A VALUE OF 0 INDICATES THAT 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		TASK HAS ISSUED SYSTEM MUST COMPLETE AND SET ALL OTHER TASKS IN THE SYSTEM NONDISPATCHABLE
		. 1		TASK HAS ISSUED STEP MUST COMPLETE AND TURNED OFF ALL OTHER TASKS IN THE STEP
		1		SYSABEND OPEN FOR JOBSTEP (VS2) . ETXR TO BE SCHEDULED .
		1		MEMBER OF TIME-SLICING GROUP
31		1		THIRD FLAG BYTE ALL PSW'S IN SUPERVISOR STATE (VS2)
				USED IN CONJUNCTION WITH TCBONDSP. FLAG INDICATING THAT ABDUMP IS CURRENTLY PROCESSING FOR SOME TASK IN JOB STEP. A HIGHER LEVEL TASK IS NOT ALLOWED TO ENTER MAINLINE ABEND PROCESSING IF THIS BIT IS SET IN JOB STEP TCB UNLESS JOB STEP TASK IS FAILING. BIT SET ONLY IN JOB STEP TCB AND TASK INVOKING ABDUMP.
		1		ABTERM BIT TO PREVENT MULTIPLE ABENDS (VS2)
	•••	1	TCBABGM	GETMAIN IS TO DEFAULT LSQA REQUESTS TO SQA REQUESTS WHEN REQUEST CANNOT BE SATISFIED FROM LSQA
		. 1		RESERVED (VS2)
		1		RESERVED (VS2) RESERVED (VS2)
		1		THIS TASK WAS DETACHED WITH STAE=YES OPTION (VS2)
32		1		NONDISPATCHABILITY FLAGS (VS2)
				ABDUMP NON-DISP. INDICATOR SER1 NON-DISP. INDICATOR

OFF	SET LEN	GTH NAME	DESCRIPTION
	1	TCBHNDSP	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	TASK IS TEMPORARILY NON-DISPATCHABLE BECAUSE SMF TIME LIMIT OR SYSOUT LIMIT USER EXIT ROUTINE IS BEING EXECUTED FOR THIS STEP (VS2)
	1		RESERVED RESERVED
	••••		TASK TERMINATING AND NONDISPATCHABLE BECAUSE EITHER OPEN FOR DUMP DATA SET IS IN PROCESS OR CLOSE BY ABEND IS IN PROCESS
33	(21)		MORE NONDISPATCHABILITY FLAGS
	1		TASK TERMINATED (VS2) ABNORMAL WAIT (VS2)
	.1		TASK IS TEMPORARILY NONDISPATCHABLE BECAUSE SMF TIME LIMIT OR SYSOUT LIMIT USER EXIT ROUTINE IS BEING EXECUTED FOR THIS STEP. BIT IS ONE IN ALL TCB'S EXCEPT JOB STEP TCB. (VS1)
	1	TCBPAGE	TASK NONDISPATCHABLE DUE TO EXCESSIVE PAGING RATE
	1	TCBANDSP	TASK NONDISPATCHABLE TEMPORARILY BECAUSE ATTACHED WITH DISP=NO OPERAND
	1.	TCBSYS	ANOTHER TASK IS IN SYSTEM MUST COMPLETE STATUS OR A SUMMARY BIT FOR FIELD TCBSYSCT (VS2)
	1	TCBSTP	ANOTHER TASK IN JS IS IN STEP MUST COMPLETE STATUS (VS2)
		1. TCBFCD1 .1 TCBPNDSP	INITIATOR WAITING FOR REGION (VS2) PRIMARY NONDISPATCHABILITY FLAG (SECONDARY NDSP FLAG TCBNDSP2 SET)
34	(22)	1 TCBLMP	TASK LIMIT PRIORITY (VS2) ENQUEUE COUNT (VS1)
35	(23)	1 TCBDSP	DISPATCHING PRIORITY
36	(24)	4 TCBLLS	ADDR OF LAST LLE IN LOAD LIST (VS2) ADDR OF LAST RB FOR PROGRAM LOADED VIA LOAD (VS1)
40	(28)	4 TCBJLB	ADDR OF JOBLIB DCB
44	(2C)	4 TCBJPQ	ADDR OF LAST CDE FOR JPA CONTROL QUEUE (VS2)
44	(2C)	1 TCBPURGE	PURGE FLAGS (VS2)
	1		JPQ PURGE FLAG RESERVED
	1		RESERVED RESERVED
	1	TCBRSV11	RESERVED
		TCBRSV13	RESERVED
		1. TCBRSV14 .1 TCBRSV15	RESERVED RESERVED
45	(2D)	3 TCBJPQB	ADDR OF LAST CDE FOR JPA CONTROL QUEUE (VS2)
48	(30) 6	4 TCBGRS	GENERAL REGISTER SAVE AREA
48	(30)	4 TCBGRS0	SAVE AREA FOR GENERAL REGISTER 0
52	(34)	4 TCBGRS1	SAVE AREA FOR GENERAL REGISTER 1
56	(38)	4 TCBGRS2	SAVE AREA FOR GENERAL REGISTER 2

OFE	FSET	LENGTH	H NAME	DESCRIPTION
60	(3C)	4	TCBGRS3	SAVE AREA FOR GENERAL REGISTER 3
64	(40)	4	TCBGRS4	SAVE AREA FOR GENERAL REGISTER 4
68	(44)	4	TCBGRS5	SAVE AREA FOR GENERAL REGISTER 5
72	(48)	4	TCBGRS6	SAVE AREA FOR GENERAL REGISTER 6
76	(4C)	4	TCBGRS7	SAVE AREA FOR GENERAL REGISTER 7
80	(50)	4	TCBGRS8	SAVE AREA FOR GENERAL REGISTER 8
84	(54)	4	TCBGRS9	SAVE AREA FOR GENERAL REGISTER 9
88	(58)	4	TCBGRS10	SAVE AREA FOR GENERAL REGISTER 10
92	(5C)	4	TCBGRS11	SAVE AREA FOR GENERAL REGISTER 11
96	(60)	4	TCBGRS12	SAVE AREA FOR GENERAL REGISTER 12
100	(64)	4	TCBGRS13	SAVE AREA FOR GENERAL REGISTER 13
104	(68)	4	TCBGRS14	SAVE AREA FOR GENERAL REGISTER 14
108	(6C)	4	TCBGRS15	SAVE AREA FOR GENERAL REGISTER 15
112	(70)	4	TCBFSA	ADDR OF FIRST PROBLEM PROGRAM SAVE AREA
112	(70)	1	TCBQEL	ENQUEUE COUNT (VS2)
113	(71)	3	TCBFSAB	ADDR OF FIRST PROBLEM PROGRAM SAVE AREA
116	(74)	4	TCBTCB	ADDR OF NEXT LOWER PRIRTITY TCB ON READY QUEUE
120	(78)	4	TCBTME	ADDRESS OF TIMER QUEUE ELEMENT
124	(7C)	4	TCBJSTCB	ADDRESS OF FIRST JOBSTEP TCB OR OF THIS TCB IF KEY ZERO (VS2)
124	(7C)	1	TCBRSV16	RESERVED
125	(7D)	3	TCBJSTCA	ADDRESS OF FIRST JOBSTEP TCB OR OF THIS TCB IF KEY ZERO (VS2)
128	(80)	4	TCBNTC	ADDR OF NEXT SISTER TCB (ZERO IF THIS IS LAST SUBTASK)
132	(84)	4	TCBOTC	ADDR OF MOTHER TCB
136	(88)	4	TCBLTC	ADDR OF LAST DAUGHTER TCB (ZERO IF THIS IS
140	(8C)	4	TCBIQE	ADDR OF IQE FOR EXTR SCHEDULING
144	(90)	4	TCBECB	ADDR OF ECB TO BE POSTED UPON TERMINATION
148	1	1 	TCBTSFLG TCBTSTSK TCBSTPPR	TIME SHARING FLAGS SWAPPED TS TASK TASK SHOULD BE MADE NDSP VIA TCBSTPP WHEN IT
	1		TCBATT	IS NO LONGER RUNNING A PRIVILEGED PGM TASK SHOULD NOT HAVE ATTENTION EXITS SCHEDULED ON IT BY EXIT EFFECTOR
	• • •	1 . 1 1 1.	TCBTIOTG TCBRSV17 TCBRSV18 TCBDYDSP TCBCPUBN	PURGE TGET/TPUT AFTER ATTENTION RESERVED RESERVED RESERVED RESERVED
149	(95)	1	TCBSTPCT	NUMBER OF SETTASK STARTS WHICH MUST BE ISSUED BEFORE TASK IS MADE DISPATCHABLE - FIELD NOT RESTRICTED TO TSO
150	(96)	1	TCBTSLP	LIMIT PRIORITY OF TS TASK
151	(97)	1	TCBTSDP	DISPATCHING PRIORITY OF TS TASK

OFI	SET	LENGT	H NAME	DESCRIPTION
152	(98)	4	TCBPQE	POINTER TO DPQE MINUS 8 FOR THE JOB STEP (VS2)
156	(9C)	4	TCBAQE	LIST ORIGIN OF AQE(S) FOR THIS TASK (VS2)
160	(AO)	4	TCBSTAB	ADDR OF STAE CONTROL BLOCK
160	1	1	TCBNSTAE TCBSTABE TCBQUIES	STAE FLAGS ABEND ENTERED BECAUSE OF ERROR IN STAE PROC STAE INVOKED PURGE I/O ROUTINE WITH QUIESCE I/O OPTION
	1	1	TCB33E TCBRSV19 TCBHALT	A 33E ABEND HAS OCCURRED FOR TASK (VS2) RESERVED (VS2) PURGE I/O ROUTINE DID NOT SUCCESSFULLY QUIESCE I/O BUT I/O WAS HALTED
		.1	TCBSYNCH TCBNPURG	SYNCH ISSUED BY ASIR TO SCHEDULE EXIT ROUTINE (VS2) VALID RETRY WITHOUT AN RB PURGE (VS2)
		1	TCBSTCUR	STAE RECURSION VALID (VS2)
161	(A1)	3	TCBSTABB	ADDR OF STAE CONTROL BLOCK
164	(A4)	4	TCBTCT	ADDR OF TCT
164	, .	1	TCBTCTGF TCBSMFGF	FLAG BYTE FOR TIMING CONTROL TABLE 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.
			TCBRSV20 TCBRSV97	RESERVED RESERVED
		• • • •	TCBRSV97	RESERVED
		1	TCBRSV99 TCBRSV9A	RESERVED RESERVED
		1.	TCBRSV9B TCBRSV9C	RESERVED RESERVED
165	(A5)	3	TCBTCTB	ADDR OF TCT
168	(A8)	4	TCBUSER	FIELD AVAILABLE TO THE USER
172	(AC)	4	TCBSCNDY	SECONDARY NONDISPATCHABILITY FLAGS - (IF ANY BIT IN THESE BYTES IS ON, THEN SO IS THE PRIMARY NDSP FLAG)
172	(AC)	4	TCBNDSP	SAME AS TCBSCNDY
172	(AC)	1	TCBNDSP0	BYTE 0
173	1	1	TCBNDSP1 TCBDARTN TCBDARPN TCBRSTND TCBRSPND	BYTE 1 TASK TEMPORARILY NONDISPATCHABLE - (DAR) TASK PERMANENTLY NONDISPATCHABLE - (DAR) TASK TEMPORARILY NONDISPATCHABLE - (RMS/SER) TASK PERMANENTLY NONDISPATCHABLE - (RMS/SER) (IF THIS FLAG IS ON THEN THE PREVIOUS ONE MUST BE TOO)
		1	TCBDDRND TCBTPSP	TASK IS IN DEVICE ALLOCATION AND DYNAMIC DEVICE RECONFIGURATION (DDR) HAS MADE IT NONDISPATCHABLE RESERVED
		1.	TCBRSV21 TCBRSV22	RESERVED RESERVED
174	1	1	TCBNDSVC	BYTE 2 SET BY ABDUMP - (VS1) TASK NDSP BECAUSE STOPPED BY SETTASK TASK NDSP BECAUSE SVC DUMP IS EXECUTING FOR ANOTHER TASK TASK NDSP BECAUSE BEING SWAPPED OUT

OFF	FSET L	LENGTH	H NAME	DESCRIPTION
	• • • • • • • • • • • • • • • • • • • •	.1	TCBIWAIT TCBOWAIT TCBDSS TCBABE	TASK NDSP DUE TO INPUT WAIT TASK NDSP DUE TO OUTPUT WAIT DSS HAS SET THE TASK NON-DISPATCHABLE ABEND ENTERED FOR THIS TASK - WHILE SYSABEND DCB OPEN FOR ANOTHER TASK (VS1)
175	(AF) 1		TCBNDSP3 TCBLJSND	BYTE 3 TASK IS ABENDING AND NONDISPATCHABLE BECAUSE IT HAS A JOB STEP SUBTASK. TCBONDSP MUST ALSO BE ON.
	.1	••••	TCBSTAND	TASK HAS BEEN SET NONDISPATCHABLE WHILE ASIR IS SCHEDULING AN EXIT ROUTINE FOR SOME OTHER TASK IN JOB STEP
	1.	1 .1 .1.	TCBRSV23 TCBRSV24 TCBRSV25 TCBRSV26 TCBRSV27 TCBRSV28	RESERVED (VS2) RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
176	(B0)	4	TCBMDIDS	RESERVED FOR MODEL-DEPENDENT SUPPORT AND FOR IBM PROPRIETARY PROGRAMMING SUPPORT
180	(B4)	4	TCBJSCB	ADDR OF JOB STEP CONTROL BLOCK
180	(B4)	1	TCBRECDE	ABEND RECURSION BYTE
		11111.1 .1.1 1 1.11	TCBNEWRB	VALID REENTRY TO ABEND INDICATED IF NON-ZERO VALUE IN FOLLOWING 7 BITS OPEN DUMP DATA SET CLOSE DIRECT SYSOUT ON TAPE CLOSE OPEN DATA SETS RESERVED GRAPHICS ABDUMP PURGE TAXE MESSAGE RECURSION DD-DYNAM TIOT CLEANUP PURGE TSO INTERPARTITION POSTS PURGE TCAM INTERPARTITION POSTS ASIR RECURSION. SAVE OLD COMP CODE TYPE 1 MESSAGE WRITE TO PROGRAMMER STAE/STAI NOT TO BE HONORED RETURN FROM STEAL CORE CONVERT TO STEP ABEND RETURN FROM DAR RETURN FROM TYPE 1 MESSAGE MODULE ABEND ISSUED SVC 13 TO XCTL TO A NON-ABEND MODULE INDICATES THAT A MUST COMPLETE TASK HAS
				ABENDED WITHOUT ENOUGH STORAGE FOR 2 RB'S FOR A WTOR ASKING WHETHER THE TASK'S RESOURCES ARE CRITICAL OR NOT. THE RESOURCES ARE ASSUMED TO BE CRITICAL, WHICH WILL CAUSE THE PARTITION TO BE MARKED PERMANENTLY NON-DISPATCHABLE. (OS/VS1)
181	(B5)	3	TCBJSCBB	ADDR OF JOB STEP CONTROL BLOCK
184	(B8)	2	TCBDDEXC	COUNT OF THE NUMBER OF TIMES A DYNAMIC DISPATCHING TASK HAS ITS TIME SLICE EXPIRE (VS1)
186	(BA)	2	TCBDDWTC	COUNT OF THE NUMBER OF TIMES A DYNAMIC DISPATCHING TASK IS NOT INTERRUPTED BY TIME SLICE BETWEEN WAITS (VS1)

OFFSET	LENGT	H NAME	DESCRIPTION
188 (BC) 4	TCBIOBRC	ADDRESS OF IOB RESTORE CHAIN FOR I/O QUIESCED BY EOT
192 (C0) 4	TCBRSV30	RESERVED
196 (C4) 4	TCBEXT1	ADDRESS OF OS-VS COMMON TCB EXTENSION
196 (C4) 1	TCBRSV32	RESERVED
197 (C5) 3	TCBEXT1A	ADDRESS OF OS-VS COMMON TCB EXTENSION
	VS1	- VS2	COMMON SECTION
200 (C8) 4	TCBBITS	FLAG BYTES
.1) 1	TCBRSV86 TCBRSV87 TCBRSV88 TCBRSV89 TCBRSV90 TCBRSV91 TCBRSV92 TCBRSV93	SECONDARY NONDISPATCHABILITY FLAGS COMMON TO VS1 AND VS2 . COORDINATED WITH PRIMARY NONDISPATCHABILITY FLAG TCBPNDSP. RESERVED
.1) 1	TCBRSV94 TCBRSV95 TCBRSV74 TCBRSV75 TCBRSV76 TCBRSV77 TCBRSV77 TCBRSV78	SECONDARY NONDISPATCHABILITY FLAGS UNIQUE TO VS1 OR VS2 . COORDINATED WITH PRIMARY NONDISPATCHABILITY FLAG TCBPNDSP. RESERVED
.1	1 1 1 1	TCBOLSQA	TASK-RELATED FLAGS PARTITION IS FIXED. VIRTUAL ADDRESSES IN PARTITION ARE REAL. PAGE FAULT INTERRUPT IS TO BE PASSED TO THE TASK'S INTERRUPT EXIT AND AN 8-BYTE PICA IS IN EFFECT FOR THIS TASK (VS2) TASK IS CPU-BOUND MEMBER OF APG (VS2) TASK SCHEDULED FOR ABTERM WHILE OWNING SUPERVISOR LOCK (VS2) TASK OWNS SPQE FOR LSQA (VS2) REGION SELECTED FOR MIGRATION FROM PRIMARY PAGING DEVICE (VS2) TASK IS IN APG (VS2) JOB STEP TASK BUT NOT HIGHEST IN FAILING TREE (VS2)
11		TCBGPECB TCBRSV33 TCBRSV34 TCBSTACK	TASK-RELATED FLAGS TASK IS IN AN ECB WAIT FOR A GETPART (VS2) RESERVED (VS2) RESERVED (VS2) SET IN JOB STEP TCB TO INDICATE THAT A TASK IN THE JOB STEP IS IN SERIAL ABEND PROCESSING. USED IN CONJUNCTION WITH TCBFOINP. (VS2) RESERVED RESIDENT SYSTEM TASK (VS2) ALL OTHER TASKS IN JOB STEP HAVE BEEN SET NONDISPATCHABLE BY ABDUMP. THIS BIT IS SET TO

OFF	SET	LENGTH	NAME	DESCRIPTION
				CONTROL JOB STEP DURING THE DUMPING PROCESS. (VS2)
		1	TCBGTOFM	GTF TRACING TEMPORARILY DISABLED
204	(CC) 1	1	TCBDAR TCBDARP	- DAMAGE ASSESSMENT ROUTINE FLAGS PRIMARY DAR RECURSION DAR FAILURE WHILE WRITING CORE IMAGE
	.1	• • • •	TCBDARS	SECONDARY DAR RECURSION - DAR FAILURE WHILE ATTEMPTING TO REINSTATE FAILING REGION/PARTITION
	1.	• • • •	TCBDARD	A DUMP HAS BEEN REQUESTED FOR A WRITER OR SCHEDULER ABEND AND THE USER HAS PROVIDED NO SYSABEND DD CARD (VS1)
		••••	TCBDARC TCBDARMC	RESERVED DAR HAS BEEN ENTERED TO HANDLE A VALID RECURSION IN MUST COMPLETE STATUS THROUGH ABEND
		1	TCBDARO	SYSTEM ERROR TASK IS FAILING. DAR DUMP SHOULD NOT REQUEST ANY ERP PROCESSING
		.1	TCBDARWT TCBRSV36 TCBEXSVC	WTO IN PROCESS FOR DAR RESERVED SVC DUMP IS EXECUTING FOR THIS TASK
205	(CD)	1	TCBRSV37	RESERVED
206	(CE)	1	TCBSYSCT	COUNT FOR THE OUTSTANDING NUMBER OF 'SYSTEM MUST COMPLETE' REQUESTS
207	(CF)	1	TCBSTMCT	COUNT FOR OUTSTANDING NUMBER OF 'STEP MUST COMPLETE' REQUESTS
208	(D0)	4	TCBEXT2	SAME AS TCBEXT2A
208	(D0)	1	TCBRSV39	RESERVED
209	(D1)	3	TCBEXT2A	ADDRESS OF VS1 - VS2 COMMON EXTENSION
		VS2	TCB OVERLA	AY
212	(D4)	4	TCBXTENT	REGION SEGMENT INFORMATION
212	(D4)	1	TCBRSV40	RESERVED
213	(D5)	1	TCBSTI	SEGMENT INDEX TO FIRST SEGMENT IN REGION. ZERO IF VIRTUAL ADDRESSES IN REGION ARE REAL.
214	(D6)	1	TCBSCT	COUNT FIELD INDICATING THE NUMBER OF SEGMENTS FOR THIS TASK'S REGION. ZERO IF VIRTUAL ADDRESSES IN REGION ARE REAL.
215	(D7)	1	TCBLSQA	SEGMENT INDEX TO FIRST LSQA SEGMENT FOR THE TASK'S REGION
216	(D8)	4	TCBTIRB	ADDRESS OF TIRB FOR TASK
220	(DC)	4	TCBBACK	ADDRESS OF PREVIOUS TCB ON READY QUEUE. ZERO IN TOP TCB.
224	(EO)	4	TCBLSQAP	ADDRESS OF SPQE FOR LSQA
228	(E4)	4	TCBIOTIM	TIME IN 16-MICROSECOND UNITS BETWEEN TIME ORIGINAL TIME SLICE INTERVAL WAS ASSIGNED AND TIME APG TASK WENT INTO VOLUNTARY WAIT
232	(E8)	4	TCBTMSAV	TIME IN 16-MICROSECOND UNITS REMAINING FROM ORIGINAL TIME SLICE INTERVAL WHEN APG TASK WAS LAST DISPATCHED
236	(EC)	1	TCBABCUR	ABEND RECURSION BYTE
237	(ED)	1	TCBRSVAA	RESERVED

<u> </u>	SET I	LENGTI	H NAME	DESCRIPTION
238	1111 1111 1111 1111 1111 1111	1111 1110 1101 1100 1011	TCBTID TCBPAGID TCBSYERR TCBCOMM TCBIORMS TCBMASTR TCBJES TCBDSSID	
239	(EF)	1	TCBRSV41	RESERVED
240	(FO)	4	TCBQECB	SAME AS TCBQECBA BELOW
240	(FO)	1	TCBNQCT	COUNT OF ALL RESOURCES UNAVAILABLE DUE TO ENQ OR RESERVE REQUESTED WITH ECB
241	(F1)	3	TCBQECBA	ADDR OF ECB TO BE POSTED WHEN TCBNQCT=0
244	(F4)	4	TCBFOE	SAME AS TCBFOEA BELOW
244	(F4)	1	TCBRSV42	RESERVED
245	(F5)	3	TCBFOEA	ADDRESS OF FIRST FIX OWNERSHIP ELEMENT (FOE) IN LIST FOR THIS TASK
248	(F8)	4	TCBSWA	RESERVED
252	(FC)	4	TCBRSV96	RESERVED
			- VS2 C EXT2	COMMON EXTENSION ADDRESS OF EXTENSION IS IN
+0	(0)	4	TCBGTF	SAME AS TCBGTFA BELOW
+0 +0	(0)	1	TCBGTF TCBTFLG TCBASYNC TCBERRTN	GTF FLAG BYTE GTF ASYNCHRONOUS GATHER RTNE IN CONTROL GTF ASYNCHRONOUS GATHER ERROR ROUTINE IN
	(0) 1	1	TCBTFLG TCBASYNC TCBERRTN	GTF FLAG BYTE GTF ASYNCHRONOUS GATHER RTNE IN CONTROL
	(0)	1	TCBTFLG TCBASYNC TCBERRTN TCBDSPIT TCBRSV43 TCBRSV44	GTF FLAG BYTE GTF ASYNCHRONOUS GATHER RTNE IN CONTROL GTF ASYNCHRONOUS GATHER ERROR ROUTINE IN CONTROL MCIH SHOULD UNCONDITIONALLY BRANCH TO THE DISPATCHER RESERVED RESERVED RESERVED RESERVED RESERVED
	(0) 111.	1 1 .1 .1	TCBTFLG TCBASYNC TCBERRTN TCBDSPIT TCBRSV43 TCBRSV44 TCBRSV45 TCBRSV46	GTF FLAG BYTE GTF ASYNCHRONOUS GATHER RTNE IN CONTROL GTF ASYNCHRONOUS GATHER ERROR ROUTINE IN CONTROL MCIH SHOULD UNCONDITIONALLY BRANCH TO THE DISPATCHER RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
+0	(0) 111.	1 1 .1 .1.	TCBTFLG TCBASYNC TCBERRTN TCBDSPIT TCBRSV43 TCBRSV44 TCBRSV45 TCBRSV46 TCBRSV47	GTF FLAG BYTE GTF ASYNCHRONOUS GATHER RTNE IN CONTROL GTF ASYNCHRONOUS GATHER ERROR ROUTINE IN CONTROL MCIH SHOULD UNCONDITIONALLY BRANCH TO THE DISPATCHER RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
+0	(0) 1 .1. 1. 1	1 1 .1 .1.	TCBTFLG TCBASYNC TCBERRTN TCBDSPIT TCBRSV43 TCBRSV44 TCBRSV45 TCBRSV46 TCBRSV47	GTF FLAG BYTE GTF ASYNCHRONOUS GATHER RTNE IN CONTROL GTF ASYNCHRONOUS GATHER ERROR ROUTINE IN CONTROL MCIH SHOULD UNCONDITIONALLY BRANCH TO THE DISPATCHER RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED ADDRESS OF TEMPORARY TRACE BUFFER
+1 +4	(0) 1 .1. 1 1 (1) (1)	1 1 .1 .1. .1.	TCBTFLG TCBASYNC TCBERRTN TCBDSPIT TCBRSV43 TCBRSV44 TCBRSV45 TCBRSV46 TCBRSV47 TCBGTFA TCBRSVAB	GTF FLAG BYTE GTF ASYNCHRONOUS GATHER RTNE IN CONTROL GTF ASYNCHRONOUS GATHER ERROR ROUTINE IN CONTROL MCIH SHOULD UNCONDITIONALLY BRANCH TO THE DISPATCHER RESERVED RESERVED RESERVED RESERVED RESERVED ADDRESS OF TEMPORARY TRACE BUFFER RESERVED COMMON INTERFACE BETWEEN VS1 AND VS2 TO KEEP ABTERM COMPLETION CODE DUE TO A VALID

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
PNONDISP TCBABCUR TCBABD TCBABE TCBABF TCBABF TCBABGM TCBABT TCBADMP TCBADMP TCBADMP TCBADMP TCBAPG TCBAPG TCBASYNC TCBAST TCBESS TCBCOMM TCBCLOSE TCBCLOSE TCBCMPF TCBCMPC TCBCMPF TCBCMPC TCBCMPF TCBCMPC TC	•	TCBEXT1 TCBEXT1A TCBEXT2 TCBEXT2A TCBFA TCBFABOP TCBFC TCBFCD1 TCBFDSOP TCBFE TCBFERA TCBFERA TCBFLAG TCBFLAG TCBFLGS1 TCBFLGS2 TCBFLGS3 TCBFLGS5 TCBFLGS6 TCBFLGS7 TCBFCBFC TCBFSFCBFCBFCBFCBFCBFCBFCBFCBFCBFCBFCBFCBFCBF	EQU VALUE 196 (C4) 197 (C5) 208 (D0) 209 (D1) 29 X'80' 30 X'20' 33 X'80' 33 X'02' 30 X'04' 29 X'40' 29 X'20' 30 X'08' 28 X'F0' 29 (1D) 29 (1D) 30 (1E) 31 (1F) 32 (20) 33 (21) 202 (CA) 203 (CB) 244 (F4) 245 (F5) 30 X'80' -32 (-20) -24 (-18) -16 (-10) -8 (-8) 29 X'02' 112 (70) 113 (71) 31 X'80' 30 X'10' 30 X'40' 29 X'04' 30 X'90' 120 X'20' 48 (30) 48 (30) 52 (34) 88 (58)	TCBGTFA TCBGTOFM TCBHALT TCBHNDSP TCBIOBRC TCBIORMS TCBIOTIM TCBIQE TCBIWAIT TCBJES TCBJLB TCBJPQ TCBJPQB TCBJPQF TCBJSCB TCBJSCB TCBJSCB TCBJSCB TCBJSCB TCBJSTCA TCBJSTCB TCBLSTCB TCBLSTCB TCBLSTCB TCBLSTCB TCBLSTCB TCBLSQAP TCBLC TCBMASTR TCBMCCNS TCBMCCNS TCBMCONS TCBNCONS TCBNC	## VALUE ## (1) 203 X'01' 160 X'08' 32 X'10' 188 (BC) 238 X'FC' 228 (E4) 140 (8C) 174 X'08' 238 X'FA' 40 (28) 44 (2C) 45 (2D) 44 X'80' 180 (B4) 181 (B5) 125 (7D) 124 (7C) 175 X'80' 36 (24) 34 (22) 215 (D7) 224 (E0) 136 (88) 238 X'FB' 180 X'40' 176 (B0) 180 X'09' 202 X'04' 20 X'80' 32 X'02' 32 X'04' 24 (18) 25 (19) 172 (AC) 173 (AD) 174 (AE) 175 (AF) 200 (C8) 201 (C9) 174 X'10' 32 X'80' 180 X'35' 20 X'40'
	204 X'04'	TCBGRS 10 TCBGRS 11 TCBGRS 12 TCBGRS 13 TCBGRS 14 TCBGRS 15			20 X'40' 180 X'30' 160 X'02' 240 (F0) 160 (A0)
TCBDDWTC TCBDEB	186 (BA) 8 (8)	TCBGRS12 TCBGRS13 TCBGRS14	96 (60) 100 (64) 104 (68)	TCBNPURG TCBNQCT TCBNSTAE TCBNTC TCBNTJS TCBOLSQA TCBOLTEP TCBONDSP	160 X'02' 240 (F0) 160 (A0) 128 (80) 202 X'01' 202 X'08' 20 X'02' 32 X'01'
TCBDYNAM TCBECB TCBERRTN TCBEXSVC	180 X'OA' 180 X'OA' 144 (90) +0 X'40' 204 X'01'	TCBGRS0 TCBGRS7 TCBGRS8 TCBGRS9 TCBGTF	76 (4C) 80 (50) 84 (54) +0 (0)	TCBOPEN TCBOTC TCBOWAIT TCBPAGE TCBPAGID	180 X'01' 132 (84) 174 X'04' 33 X'20' 238 X'FF'

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
TCBPDUMP TCBPIE TCBPIEA TCBPIEA TCBPIEA TCBPIEA TCBPN TCBPW TCBPM TCBPM TCBPMASK TCBPNDSP TCBPQE TCBPTAXE TCBPURGE TCBQECB TCBQECB TCBQECB TCBQECB TCBQETIP TCBQUIES TCBRECDE TCBRSPND TCBRSTND TCBRSTND TCBRSTND TCBRSTND TCBRSVAA TCBRSVAA TCBRSVAB TCBRSVAB TCBRSVO1 TCBRSV02 TCBRSV03 TCBRSV04 TCBRSV07 TCBRSV06 TCBRSV10 TCBRSV11 TCBRSV12 TCBRSV11 TCBRSV12 TCBRSV21 TCBRSV23 TCBRSV23 TCBRSV33 TCBRSV34 TCBRSV35 TCBRSV35 TCBRSV36 TCBRSV37		TCBRSV39 TCBRSV41 TCBRSV41 TCBRSV42 TCBRSV44 TCBRSV45 TCBRSV45 TCBRSV46 TCBRSV46 TCBRSV47 TCBRSV47 TCBRSV76 TCBRSV77 TCBRSV77 TCBRSV77 TCBRSV77 TCBRSV78 TCBRSV79 TCBRSV86 TCBRSV89 TCBRSV89 TCBRSV89 TCBRSV90 TCBRSV90 TCBRSV90 TCBRSV90 TCBRSV90 TCBRSV91 TCBRSV90 TCBRSV91 TCBRSV97 TCBSTABB TCBSTABB TCBSTABB TCBSTABB TCBSTABB TCBSTACK TCBSTAND TCBSTCC TCBSTCUR TCBSTP TCBSTPP TCBSTPP TCBSTPP TCBSTPP TCBSTPP TCBSTPPR TCBSYSCT TCBSYSCT		TCBTCAMP TCBTCB TCBTCP TCBTCT TCBTCT TCBTCT TCBTCT TCBTCT TCBTIO TCBTIO TCBTIO TCBTIOT TCBTIOT TCBTIOT TCBTIOT TCBTINB TCBTME TCBTMSAV TCBTSP TCBTSLP TCBTSLP TCBTSLP TCBTSTSK TCBTYP1R TCBTYP1W TCBUSER TCBUXNDF TCBUXNDV TCBXTENT TCBZERO TCB33E TNONDISP	
			D OF TCB		

Timing Control Table

The timing control table (TCT) contains information used by the system management facilities (SMF) feature.

The TCT is pointed to bt the TCBTCT field, offset 164 decimal (A4 hexadecimal), in the task control block.

The TCT is composed of:

- 1. The TCT proper, consisting of fields used by SMF modules and storage tables.
- 2. The TCT I/O lookup table, consisting of a TCT I/O lookup table and a TCT I/O counter table.

The TCT I/O table need not be contiguous to the TCT proper.

OFF	SET 1	LENGT	H NAME	DESCRIPTION
0	(0)	3	TCTQA	QUEUE ADDRESS OF TCT
3	(3) 1	1	TCTSW TCTJSTI	TCT SWITCHES TQE JOB/STEP TIME INDICATOR BITO = 0 - STEP
	.1	1 1 .1	TCTRSV01 TCTRSV02 TCTRSV03 TCTRSV04 TCTRSV05 TCTRSV06 TCTRSV07	TIME IN TQE BITO = 1 - JOB TIME IN TQE RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
4	(4)	4	TCTTCB	ADDRESS OF INITIATOR TCB
8	(8)	4	TCTCRTBL	ADDRESS OF TCT STORAGE TABLE
12	(C)	4	TCTIOTBL	ADDRESS OF TCT I/O TABLE
16	(10)	4	TCTPOOL	SUBPOOL/LENGTH FOR TCT PROPER
16	(10)	2		TCT SUBPOOL NUMBER
18	(12)	2	TCTSZE	TCT SIZE ON HWORD BOUNDARY
20	(14)	4	TCTUTL	ADDRESS OF USER TIME LIMIT ROUTINE
24	(18)	4	TCTUDATA	ADDR OF A POINTER TO THE JOB MGMT RECORD
28	(1C)	4	TCTJMR	ADDRESS OF JOB MANAGEMENT RECORD
32	(20)	4	TCTRSV08	RESERVED
36	(24)	4	TCTSTOF	OVERFLOW FOR USER-SUPPLIED STEP TIME EXTENSIONS
40	(28)	4	TCTSACT	CURRENT TOTAL OF USER-SUPPLIED STEP TIME EXTENSIONS (TIMER UNITS)
44	(2C)	4	TCTWLMT	MAXIMUM JOB/STEP WAIT TIME LIMIT
48	(30)	4	TCTLIN	TSO - COUNT OF LINES OF TERMINAL INPUT
52	(34)	4	TCTLOUT	TSO - COUNT OF LINES OF TERMINAL OUTPUT
56	(38)	4	TCTAST	TOD OF DEVICE ALLOCATION START IN 100TH OF SECONDS
60	(3C)	4	TCTPPST	TOD OF INITIAL PROBLEM PROGRAM LOADING 100TH OF SECONDS
64	(40)	20	TCTPGSMF	SMF REGION-RELATED STATISTICS
64	(40)	4	TCTPGIN	TOTAL PAGE-INS FOR THIS REGION (INCLUDING SWAP-INS)
68	(44)	4	TCTPGOUT	TOTAL PAGE-OUTS FOR THIS REGION (INCLUDING SWAP-OUTS)
72	(48)	4	TCTRGNS	TOTAL SWAPS PERFORMED FOR THIS TSO USER (SWAP-INS + SWAP-OUTS)
76	(4C)	4	TCTSIN	TOTAL PAGES SWAPPED-IN FOR THIS TSO USER
80	(50)	4	TCTSOUT	TOTAL PAGES SWAPPED-OUT FOR THIS TSO USER
		TYP	E OF STORAGE	LES: A SEPARATE TABLE IS USED TO DESCRIBE EACH OBTAINED FOR A TASK (PROCESSOR STORAGE ND LCS (HIERARCHY 1))*
84	(54)	4	TCTLWM	HIGHEST ADDR ALLOC FROM BOTTOM OF REGION
88	(58)	4	TCTHWM	LOWEST ADDR ALLOC FROM TOP OF REGION
92	(5C)	2	TCTMINC	MINIMUM DIFF BETWEEN LWM/HWM (2K BLOCKS)

<u>OF</u>	FSET	LENGTH N	NAME	DESCRIPTION
94	(5E)	2 TC	CTRSZ	REGION REQUEST SIZE (2K BLOCKS)
96	(60)	2 то	CTRBC	CURRENT ROLLOUT BORROWED CORE (2K BLKS)
98	(62)	2 TO	CTMBC	MAXIMUM ROLLOUT BORROWED CORE (2K BLKS)
		HIERAF	RCHY 1 STO	RAGE TABLE
100	(64)	16 TC	CTLCS	STORAGE RESERVED FOR HIERARCHY 1 STORAGE TABLE
				T TABLE: THE TCT I/O TABLE IS COMPOSED OF THE TABLE AND THE TCT I/O COUNTER TABLE
		COMMON		TABLE: THE TCT I/O LOOKUP TABLE CONTAINS A AND A DD LOOKUP TABLE ENTRY FOR EACH DD ENTRY
116	(74)	4 TO	CTPLEXT	SUBPOOL/LENGTH OF TCT I/O TABLE
116	(74)	2		SUBPOOL NUMBER FOR TCT I/O TABLE
118	(76)	2 TO	CTSZEXT	LENGTH OF TCT I/O TBL ON HWORD BOUNDARY
120	(78)	2 TO	CTSZLKP	LENGTH OF TCT I/O LOOKUP TABLE
122	(7A)	2 TO	CTRSV11	RESERVED
				ENTRY: A DD LOOKUP TABLE ENTRY IS CREATED FOR N THE TIOT
124	(7C)	2 TO	CTDCBTD	OFFSET FOR TIOT DD ENTRY
126	(7E)	2 TO	CTIOTSD	OFFSET FOR TCT I/O TABLE DD ENTRY
128	(80)	4 TO	CTDCBLE	END OF TCT I/O LOOKUP TABLE (ZEROS)
				TABLE THE TCT I/O COUNTER TABLE CONSISTS OF R EACH DD ENTRY IN THE TIOT
		REPEA	TED FOR EA	DD ENTRY CONSISTS OF AN 8 BYTE DEVICE ENTRY CH UCB ASSOCIATED WITH A DD STATEMENT AND AN 8 IT EXTENSION.
		DEVIC	E ENTRY	
132	(84)	2 TO	CTUCBP	ADDRESS OF UCB FOR THIS DEVICE
134	(86)	1 TO	CTSCTR	NUMBER OF DEVICES ASSOCIATED WITH THIS DD STATEMENT. X'FF' INDICATES SYSIN DATA SET (VS1).
135	(87)	1 TO	CTRSV09	RESERVED
136	(88)	4 T	CTDCTR	EXCP COUNTER FOR THIS UCB
		OUTPU	T LIMIT EX	TENSION
140	(8C)	4 T	CTRSV10	RESERVED
144	(90)	1 TO	CTEXRLD	NO OF EXTENTS RELEASED BY DADSM
145	(91)	3 Т	CTTKRLD	NO OF TRKS RELEASED BY DADSM

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
TCTAST TCTCRTBL TCTCRTBL TCTDCBLE TCTDCBLE TCTDCBTC TCTDCTR TCTEXP TCTEXRLD TCTHWM TCTIOTSD TCTJMR TCTJSTI TCTLCS TCTLIN TCTLOUT TCTHWM TCTMBC TCTMINC TCTPGIN TCTPGOUT TCTPGSMF TCTPGSMF TCTPLEXT TCTPOOL TCTRSV01 TCTRSV02 TCTRSV03 TCTRSV04 TCTRSV05 TCTRSV05 TCTRSV06 TCTRSV07 TCTRSV07 TCTRSV07 TCTRSV07 TCTRSV11 TCTTSTOF TCTSUR	•	NAME	*	NAME	
TCTUCBP TCTUDATA TCTUTL	132 (84) 24 (18) 20 (14)				
TCTWLMT	44 (2C)	E	ND OF TOT		

Task Input/Output Table

The task input/output table (TIOT) is constructed by job management routines. It resides in the upper portion of the pageable dynamic area of virtual storage during step execution. The TIOT provides the I/O support routines (OPEN, CLOSE, and EOV) with pointers to JFCBs and allocated devices.

OFI	SET	LENGT	H NAME	DESCRIPTION
0	(0)	8	TIOCNJOB	JOB NAME
8	(8)	16	TIOCSTEP	STEP NAME
			OCATION, THE	ENTRY INCLUDES A DEVICE ENTRY. BEFORE CRE MAY BE SEVERAL DEVICE ENTRIES IN EACH DD
24	(18)	1	TIOELNGH	LENGTH OF THIS ENTRY
25	1	1	TIOSLTYP TIOSPLTP TIOSPLTS TIOSJBLB TIOSDADS TIOSLABL TIOSDSP1	SPLIT CYLINDER PRIMARY SPLIT CYLINDER SECONDARY JOBLIB INDICATOR
				TH BITS TIOSLTYP AND TIOSLABL ARE ON, THE PE AND HAS AN 'ANSI' LABEL.
26	(1A)	2	TIOERLOC	REL. LOC OF POOL
26	(1A)	1	TIOEWTCT	COUNT OF NUMBER OF DEVICES DURING ALLOCATION STILL ELIGIBLE TO DADSM ALLOCATE THIS DATA SETS REQUEST
27	(1B)	1	TIOELINK	DURING ALLOCATION OF ALL BUT POOLS THIS WILL BE A LINK TO THE APPROPRIATE PRIME, SPLIT, UNIT AFFINITY, VOLUME AFFINITY, OR SUBALLOCATE. FOLLOWING BIT MASKS APPLY TO THE TIOELINK FIELD.
	.1.	1 . 1 . 1 1	TIOEDYNM TIOEQNAM TIOESYIN TIOESYOT	SYSOUT DATA SET THAT CONTAINS DATA DATA SET IS OPEN THIS IS A TERMINAL 'DYNAM' KEYWORD USED 'QNAME' KEYWORD USED ENTRY FOR SPOOLED INPUT ENTRY FOR SPOOLED OUTPUT INDICATES THE ENTRY IS FOR A REMOTE DEVICE
28	(1C)	8	TIOEDDNM	DDNAME
36	(24)	3	TIOEJFCB	JFCB DISK ADDR
39	111	1	TIOSDEFR TIOSAFFP TIOSAFFS TIOSVOLP TIOSVOLS TIOSBALP	STATUS -C- CORE/DISK ADDRESS DEFERRED MOUNT UNIT AFFINITY PRIMARY UNIT AFFINITY SECONDARY VOLUME AFFINITY PRIMARY VOLUME AFFINITY SECONDARY SUBALLOCATE PRIMARY SUBALLOCATE SECONDARY
		FOR 2.	EACH DEVICE	1. DURING ALLOCATION: ONE DEVICE ENTRY E REQUIRED, OR FOR EACH PUBLIC DEVICE ELIGIBLE. LEM PROGRAM: ONE DEVICE ENTRY FOR EACH CE
40	1 .1. 1	1	TIOSREQD TIOSPVIO TIOSVLSR	STATUS -B- DATA SET IS ON DEVICE DATA SET WILL USE DEVICE DEVICE VIOLATES SEPARATION VOLUME SERIAL PRESENT SETUP MESSAGE REQUIRED

OFF	SET	LENGT	H NAME	DESCRIPTION
		1	TIOSMNTD TIOSUNLD TIOSVERF	MOUNTED UNLOAD REQUIRED VERIFICATION REQUIRED
41	(29)	3	TIOEFSRT	SRT POINTER
		TIO	r pool entry	
44	(2C)	1		RESERVED
45	(2D)	1	TIOPNSLT	NR.OF SLOTS FOR POOL
46	(2E)	1		RESERVED
47	(2F)	1	TIOPNSRT	NR.OF DEVICES (FILLED SLOTS)
48	(30)	8	TIOPPOOL	POOL NAME
56	(38)	1	TIOPSTTB	STATUS OF SLOT
57	(39)	3	TIOPSLOT	SRT ADDRESS OR EMPTY SLOT
60	(3C)	4	TIOTFEND	FINAL END OF AN ENTRY OR OF THE TIOT

NAME	OFFSETS/	NAME	OFFSETS/	NAME	OFFSETS/
	EQU VALUE		EQU VALUE		EQU VALUE
	44 (2C)				
	46 (2E)				
TIOCNJOB	0 (0)				
TIOCSTEP	8 (8)				
TIOEDDNM	28 (1C)				
TIOEDYNM	27 X'10'				
TIOEFSRT	41 (29)				
TIOEJFCB	36 (24)				
TIOELINK	27 (1B)				
TIOELNGH	24 (18)				
TIOEQNAM	27 X'08'				
TIOERLOC	26 (1A)				
TIOESTTA	25 (19)				
TIOESTTB	40 (28)				
TIOESTTC	39 (27) 27 X'04'				
TIOESYIN TIOESYOT	27 X'04' 27 X'02'				
TIOESTOT	27 X 02 26 (1A)				
TIOPNSLT	45 (2D)				
TIOPNSRT	47 (2F)				
TIOPPOOL	48 (30)				
TIOPSLOT	57 (39)				
TIOPSTTB	56 (38)				
TIOSAFFP	39 X'20'				
TIOSAFFS	39 X'10'				
TIOSBALP	39 X'02'				
TIOSBALS	39 X'01'				
TIOSDADS	25 X'08'				
TIOSDEFR	39 X'40'				
TIOSDKCR	39 X'80'				
TIOSDSP1	25 X'02'				
TIOSDSP2	25 X'01'				
TIOSJBLB TIOSLABL	25 X'10' 25 X'04'				
TIOSLABL	25 X'80'				
TIOSMNTD	40 X'04'				
TIOSPLTP	25 X'40'				
TIOSPLTS	25 X'20'				
TIOSPVIO	40 X'20'				
TIOSREQD	40 X'40'				
TIOSSETU	40 X'08'				
TIOSUNLD	40 X'02'				
TIOSUSED	40 X'80'				
TIOSVERF	40 X'01'				
TIOSVLSR	40 X'10'				
TIOSVOLP	39 X'08'				
TIOSVOLS	39 X'04' 27 X'80'				
TIOSYOUT	60 (3C)				
TIOTFEND	27 X'40'				
TIOTREM	27 X 40 27 X'01'				
TIOTTERM	27 X'20'				
	2 20	FN	יים או או או		

END OF TIOT

Unit Control Block

There is a unit control block (UCB) for each device attached to the system. It describes the characteristics of the device to the I/O supervisor and is used by the job scheduler during allocation of the device.

The unit control block consists of two segments: a segment common to all devices (common segment) and segments that vary with different devices (device segments). The UCB device segments may also contain pointers to a device extension which does not have to be contiguous to the UCB proper.

LENGTH NAME DESCRIPTION OFFSET

COMMON SECTION

			ALION BLOTTO	••
0			UCBJBNR UCBJBNRF	INTERNAL JOB ID IDENTIFIER OF INITIATOR REQUESTING RETAIN OR
	1111		UCBKEY	PASSED DATA SET USAGE (VS2) JOB PROTECTION KEY (VS1) (SET FOR RETAIN OR PASS)
			UCBRSV01	RESERVED
	• • • •		UCBRSV02 UCBDEM	RESERVED DEMOUNT AND RETAIN OR PASS (SET DURING DEVICE
	·	1	UCBMONT	ALLOC) MOUNT AND RETAIN OR PASS (SET DURING DEVICE ALLOC)
1	(1)		UCBFL5	FLAGS
	1		UCBRSV03 UCBAF	RESERVED ATTENTION FOR THIS CONSOLE DEVICE TO BE
	.1	••••	UCBAMV	PROCESSED BY COMMUNICATIONS TASK FOR DIRECT ACCESS DEVICES ONLY IF ONE, IT INDICATES A SUCCESSFUL COMPARISON CHECKING OF THE ACCESS METHOD CATALOG AND THE VOLUME CONTENTS
	1.	• • • •	UCBTICBT	CHANNEL END AND/OR DEVICE END OR MOUNT CONDITION PENDING. USED ONLY WITH PTF.
	1		UCBVSDR UCBEXTSN	DEVICE HAS VARIABLE LENGTH SDRS UCNBRSN CONTAINS LENGTH AND UCBSNADR ADDRESS OF SENSE INFO
	• • • • •	1.	UCBNALOC UCBALTCU UCBALTPH	DEVICE NOT ALLOCABLE BECAUSE OWNED BY OLTEP DEVICE HAS ALTERNATE CU ADDRESS DEVICE HAS ALTERNATE PATH
2	(2)	1	UCBID	UCB ID (HEXADECIMAL FF)
3	(3)		UCBSTAT	DEVICE STATUS
	1		UCBONLI UCBCHG S	DEVICE ONLINE DEVICE TO BE VARIED OFFLINE
	1.		UCBRESV	VOLUME RESERVED
	1		UCBUNLD UCBALOC	UNLOAD PENDING DEVICE ALLOCATED
			UCBPRES	VOLUME PERMANENTLY RESIDENT
	• • • •		UCBSYSR	SYSTEM RESIDENCE OR PRIMARY CONSOLE OR ACTIVE CONSOLE
	• • • •	1	UCBDADI	STANDARD TAPE LABELS VERIFIED OR ALTERNATE CONSOLE OR CONSOLE STATUS CHANGING
4	,		UCBCHA	CHANNEL ADDRESS FLAGS
	1		UCBHIO UCBMOD	HALT I/O STATUS MODIFIER
	xx		UCBCHANA	CHANNEL ADDRESS
5	(5)	1	UCBUA	UNIT ADDRESS
6	(6)	1	UCBFL1	FLAGS
	1			DEVICE BUSY
	.1		UCBNOTRD UCBUSING	DEVICE NOT READY CHANNEL PROGRAM EXECUTED AND NOT YET POSTED
	1		UCBINTER	COMPLETE DEVICE END ERROR AFTER CHANNEL END (IOB
		1	UCBNOTRC	INTERCEPT) CONTROL UNIT BUSY
		.xx.	UCBSTS	DEVICE STATUS
	• • • •		UCBNTRAN	DIRECT ACCESS ARM SEEKING (IOS STANDALONE CP EXECUTED) OR TC RECEIVE STATUS (INHIBIT HIO)
			UCBTRANS UCBERR	DIRECT ACCESS DATA TRANSFER (USER CP EXECUTING) ERROR ROUTINE USING DEVICE EXCLUSIVELY

```
OFFSET
          LENGTH NAME
                             DESCRIPTION
                             DEVICE TABLE INDEX
 7
      (7)
                UCBDTI
 8
      (8)
                 UCBETI
                             ERROR TABLE INDEX (ERROR ROUTINE SUFFIX)
9
                             STATUS TABLE INDEX (*10 = STATAB INDEX)
      (9)
                UCBSTI
                             LOGICAL CHANNEL WORD TABLE INDEX (*8 = LCHTAB
      (A)
                UCBLCI
10
             1
                             INDEX)
11
      (B)
             1 UCBATI
                             ATTENTION TABLE (ANTAB) INDEX
                 UCBRSV04
                             RESERVED
      1... ....
                  UCBRSV05
                             RESERVED
      .1.. ....
      ..1. ....
                  UCBRSV06
                             RESERVED
      ...1 ....
                  UCBRSV07
                             RESERVED
                  UCBRSV08
                             RESERVED
      . . . . 1 . . .
                  UCBRSV09
      .... .1..
                             RESERVED
                  UCBHALI
      .... ..1.
                             OPTIONAL JOB ENTRY SYSTEM ALLOCATION
                             INDICATOR
      .... UCBHPDV
                              IF ONE, INDICATES OPTIONAL JOB ENTRY SYSTEM
                             PSEUDO DEVICE
12
      (C)
            1 UCBWGT
                             FLAGS AND CHANNEL MASK
                 UCBIN
                             SYSIN
      1...
                  UCBOUT
                             SYSOUT
      .1.. ....
      ..1. ....
                  UCBPUB
                             ASSUME PUBLIC VOLUME
                  UCBREW
                             REWIND COMMAND
      ...1 ....
                             INOPERATIVE PATHS
      .... xxxx
                 UCBPATH
                  UCBPATHO
                             PRIMARY PATH INOPERATIVE
      . . . . 1 . . .
      .... .1..
                             OPTIONAL PATH 1 INOPERATIVE
                  UCBPATH1
                  UCBPATH2
                             OPTIONAL PATH 2 INOPERATIVE
      .... ..1.
                 UCBPATH3
                             OPTIONAL PATH 3 INOPERATIVE
      . . . . . . . . 1
                UCBNAME
                             EBCDIC UNIT NAME
      (D)
             3
13
     (10)
             4
                UCBTYP
                             DEVICE DESCRIPTION
16
     (10)
                 UCBTBYT1
                             MODEL BITS
16
                 UCB1FEA0
                             BIT 0
      1... ....
      .1.. ....
                  UCB1FEA1
                             BIT 1
                             BIT 2
                  UCB1FEA2
      ..1. ....
      ...1 ....
                  UCB1FEA3
                             BIT 3
      .... 1...
                  UCB1FEA4
                             BIT 4
                  UCB1FEA5
                             BIT 5
      . . . . . 1 . .
      .... ..1.
                  UCB1FEA6
                             BIT 6
      . . . . . . . . 1
                 UCB1FEA7
                             BIT 7
             1 UCBTBYT2
17
     (11)
                             OPTION FLAGS
                  UCB2OPT0
                             FLAG 0
      1... ....
      .1.. ....
                  UCB2OPT1
                              FLAG 1
                              FLAG 2
                  UCB2OPT2
      . . 1 . . . . . .
                             FLAG 3
      ...1 ....
                  UCB2OPT3
                  UCB2OPT4
                             FLAG 4
      . . . . 1 . . .
      .... .1..
                  UCB2OPT5
                             FLAG 5
      .... ..1.
                  UCB2OPT6
                             FLAG 6
      .... 1 UCB20PT7
                              FLAG 7
             1 UCBTBYT3
     (12)
                              CLASS BITS
18
      1... UCB3TAPE
                              TAPE
                  UCB3COMM
                              COMMUNICATIONS
      .1.. ....
                  UCB3DACC
                              DIRECT ACCESS
      ..1. ....
      ...1 ....
                  UCB3DISP
                              DISPLAY
      .... 1...
                              UNIT RECORD
                  UCB3UREC
                              CHARACTER READER
      .... .1..
                  UCB3CHAR
      .... ..1.
                  UCBRSV10
                              RESERVED
                  UCBRSV11
                              RESERVED
      . . . . . . . . . 1
             1 UCBTBYT4
19
     (13)
                              DEVICE CODE
```

OFF	SET	LENGT	H NAME	DESCRIPTION
20	(14)	2	UCBLTS	LAST REQUEST ELEMENT
22	(16)	2	UCBSNS	SENSE INFORMATION FOR DEVICES WITHOUT EXTENDED SENSE
22	1	1 1 .1 .1		FLAG BYTE FOR DEVICES WITH EXTENDED SENSE INDICATES CANCEL KEY DEPRESSED ON 3211 RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
23	(17)	1	UCBRSV19	RESERVED BYTE FOR DEVICES WITH EXTENDED SENSE
		DEV:	ICE-DEPENDEN	I UCB SEGMENTS
			ECT ACCESS (2 00/3400) UCB	23XX/3330) AND MAGNETIC TAPE SEGMENT
		DEV:	ICE-DEPENDEN'	T SEGMENT
24	(18)	4	UCBSENSE	ADDITIONAL SENSE INFORMATION FOR DEVICES WITH SIX SENSE BYTES
24	(18)	4	UCBSENSB	SAME AS UCBSENSA BELOW
24	(18)	1	UCBSENSN	NUMBER OF EXPANDED SENSE BYTES
25	(19)	3	UCBSENSA	ADDRESS OF EXPANDED SENSE INFORMATION
28	(1C)	6	UCBVOLI	VOLUME SERIAL NUMBER
34	1	1		VOLUME STATUS NOT SHARABLE (DIRECT ACCESS) WHEN ONE, DEVICE SHARABLE AMONG SEVERAL CPU'S (3420 MAGNETIC TAPE DEVICES ONLY)
	1.		UCBPGFL UCBBALB UCBPRSRS	UCB IS OPEN AND IS USED AS A PAGE FILE MORE VOLUME LABEL PROCESSING THIS DEVICE WAS SPECIFIED IN PRESRES BUT WAS NOT MOUNTED AT IPL
			UCBBPRV	PRIVATE USE
		1	UCBBPUB UCBBSTR	PUBLIC USE STORAGE USE (DA) ANSI LABEL (MT)
		1	UCBBJLB UCBBNUL	JOBLIB VOLUME (DA) MCS MOUNT/DEMOUNT MSGS ISSUED (MESSAGE IDS IN UCBFSER) (MT) CONTROL VOLUME (DA)
35		1	UCBDMCT UCBMOUNT	VOLUME USE BYTE MOUNTED OR REQUEST ISSUED (OFF MEANS MOUNT VERIFIED)
	.xxx	xxxx	UCBDMC	NUMBER OF OPEN DCBS
36	(24)	4	UCBVTOC	TTRO OF VTOC (DA)
36	(24)	2	UCBFSCT	DATASET SEQUENCE COUNT (MT)
38	(26)	2	UCBFSEQ	DATASET SEQUENCE NUMBER (MT)
40	(28)	8	UCBFSER	DATASET SERIAL NUMBER (MT AFTER OPEN) OR MESSAGE IDS (MT BEFORE OPEN) PLUS TWO RESERVED BYTES (MT)
40	(28)	1	UCBSQC	NUMBER OF RESERVE MACROS (DA)
41	(29)	1	UCBDVRES	DEVICE RESERVATION (SHARED DASD) (DA) SET TO UCBSQC AFTER GOOD SIO

OFF	SET	LENGTH	H NAME	DESCRIPTION
42	(2A)	2	UCBRQESV	ADDRESS OF RQE TO VERIFY VOL SER NUMBER IN UCB (SET FROM UCBLTS AFTER UNSOLICITED DEVICE END) (DA)
44	(2C)	4	UCBORSVA	ADDRESS OF DEB FOR FIRST USER ON QUEUE FOR DEVICE (DA)
44	1 .1 1.	1 X 1 .xxx	UCBFL4 UCBDAV UCBMNT UCBVRTN UCBFT UCBTCC UCBVER UCBORCNT	FLAGS (DA) VOLUME VERIFICATION FLAGS VOL SER VERIFIER ISSUED MOUNT VOL SER VERIFIER IN CONTROL FIRST VERIFIER ENTRY FOR VOL ALTERNATE TRACK PROCEDURE HANDLING VOL LABEL VERIFIER VERIFIED VOL NUMBER OF REQUESTS FOR DEVICE FROM FIRST USER ON QUEUE
45	(2D)	3	UCBORSVB	ADDRESS OF DEB FOR FIRST USER ON QUEUE FOR DEVICE (DA)
48	(30)	8	UCBSKA	MBBCCHHR OF LAST SEEK (DA)
48	(30)	4	UCBXTN	ADDRESS OF UCB EXTENSION (MT)
48	1	1	UCBESV UCBEVA UCBESVC	VOLUME STATISTIC FLAGS ESV RECORDS KEPT EVA RECORDS MAY BE KEPT ESV RECORDS SENT TO CONSOLE AS OPPOSED TO SYS1.MAN
	• • • •	1 .1 1.	UCBERPC UCBESVE UCBRSV20 UCBRSV21 UCBASNDE	ERROR RECOVERY PROC IN CONTROL ESV RECORD ISSUED FOR VOLUME BECAUSE OF EOV RESERVED RESERVED UNSOLICITED DEVICE END OCCURRED ON 3420
49	(31)	3	UCBXTNB	ADDRESS OF UCB EXTENSION (MT) (MAP BELOW)
52	(34)	4		RESERVED
56	(38)	4	UCBEXTN	SAME AS UCBEXTNA BELOW
56	(38)	1	UCBUSER	NUMBER OF CURRENT USERS (DA)
57	(39)	3	UCBEXTNA	ADDRESS OF DIRECT ACCESS UCB EXTENSION 2 (MAPPED BELOW)
60	(3C)	4	UCBEXT	ADDRESS OF UCB EXTENSION (DA) (MAPPED BELOW)
60		1	UCBFL6 UCBDSS	FLAG BYTE READ HOME ADDRESS AND READ RECORD ZERO OPERATIONS PERFORMED BY DYNAMIC SUPPORT SYSTEM
	1.	1 1 .1	UCBRSV24 UCBRSV25 UCBRSV26 UCBRSV27	RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
61	(3D)	3	UCBEXTA	SAME AS UCBEXT ABOVE
			T RECORD WIT MENT	H UNIVERSAL CHARACTER SET (1403, 3211) UCB
		DEV	ICE-DEPENDEN	T SEGMENT
24	(18)	1	UCBNBRSN	LENGTH OF SENSE INFO (3211)
25	(19)	3	UCBSNADR	ADDR OF SENSE INFO THAT OF UCBSNS (1403) OR UCBSNSXT (3211)

OFI	FSET	LENGT	H NAME	DESCRIPTION
28	(1C)	4	UCBXTADR	ADDR OF UCS UCB EXTENSION
			PHICS EXCEPT	CRT CONSOLE AND 3270 UCB SEGMENT I SEGMENT
24	(18)	2	UCBSENS	MORE SENSE INFORMATION
26	(1A)	1	UCBOPEN	NUMBER OF OPEN DCBS
27	(1B)	1	UCBGCB	GRAPHIC CONTROL BYTE
28	(1C)	4	UCBTEB	ADDRESS OF TASK ENTRY BLOCK
32	(20)	4	UCBSTART	RESTART ADDRESS
36	(24)	4	UCBBTA	ADDRESS OF BUFFER TABLE
36	(24)	1	UCBDI	DEVICES ON A CONTROL UNIT TO WHICH BUFFER SECTIONS ARE ASSIGNED
37	(25)	3	UCBBTB	ADDRESS OF BUFFER TABLE
			O GRAPHICS UG	
24	(18)	2	UCBAOF	ADDITIONAL OPTIONAL FEATURES. AN EXTENSION OF THE OPTIONAL FEATURES BYTE OF THE UCBTYP FIELD.
24	.1.		UCBAOF 1 UCBOFMCR UCBOFSP UCBOFNL UCBRSV64 UCBRSV65 UCBRSV66 UCBRSV67 UCBRSV68	FIRST BYTE OF UCBAOF MAGNETIC CARD READER ADAPTER - FOR 3277 ONLY SELECTOR PEN - FOR 3277 ONLY NUMERIC LOCK - FOR 3277 ONLY RESERVEDUCTOFFT (43 4x Console) RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
25	11	1	UCBAOF2 UCBRSV69 UCBRSV70 UCBRSV71 UCBRSV72 UCBRSV73 UCBRSV74 UCBRSV75 UCBRSV76	SECOND BYTE OF UCBAOF RESERVED
26	(1A)	1	UCBATNCT	ATTENTION COUNT. THE NUMBER OF ATTENTIONS NOT SERVICED IN THE LINE GROUP. PRESENT ONLY IF THE DEVICE INDEX FIELD IS 1. OTHERWISE, THIS FIELD IS RESERVED.
27	(1B)	1	UCBGCB	CONTROL BYTE. USED FOR ATTENTION
	.1.	· · · · · · · · · · · · · · · · · · ·	UCBOLTEP UCBRSV77 UCBRSV78 UCBRSV80 UCBRIPND UCBSKPFG UCBATRCD	HANDLING FLAGS OLTEP IN CONTROL OF THE DEVICE RESERVED RESERVED RESERVED RESERVED READ INITIAL PENDING SKIP FLAG ATTENTION RECEIVED FROM THE DEVICE
28	(1C)	4	UCBIRB	ADDRESS OF THE IRB USED FOR SCHEDULING THE SECOND LEVEL ATTENTION ROUTINE
32	(20)	1	UCBIRLN	INITIALIZED RLN. THE RELATIVE LINE NUMBER OF THE IOB INITIALIZED FOR A READ INITIAL. IF O,

OF	FSET	LENGTH	<u>NAME</u>	DESCRIPTION
				NO READ INITIAL IS OUTSTANDING. PRESENT ONLY IF THE DEVICE INDEX FIELD IS 1. OTHERWISE, THIS FIELD IS RESERVED.
33	(21)	1	UCBRSV81	RESERVED
34	(22)	2	UCBRSV82	RESERVED
36	(24)	4	UCBCTLNK	SAME AS UCBCTLNA BELOW
36	(24)	1	UCBRLN	DEVICE INDEX. INDEX TO THE DEB UCB ADDRESS FIELD FOR THIS DEVICE. THIS INDEX IS ALSO THE RELATIVE LINE NUMBER.
37	(25)	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.
		1288	E CARTRIDGE 3) UCB SEGMI ICE-DEPENDEN	
24	(18)	4	UCBCRWKA	ADDRESS OF UCB EXTENSION FOR THIS DEVICE (MAPPED BELOW)
		UNI	CONTROL B	LOCK EXTENSIONS
		DIR	ECT ACCESS	(23XX/3330) UCB EXTENSION
+0	(0)	104		OFFSET
+104	(68)	40	UCBERP	ERROR RECOVERY WORK AREA
+144	(90)	40	UCBOVFLW	TRACK OVERFLOW WORK AREA
		DIR	ECT ACCESS	(23XX/3330) UCB EXTENSION 2
+0	(0)	4	UCBDEXP	SAME AS UCBDEXPA BELOW
+0	(0)	1	UCBRSV32	RESERVED
+1	(1)	3	UCBDEXPA	ADDRESS OF THE EXCPCNTS TABLE ENTRY FOR THIS DIRECT ACCESS DEVICE
+4	(4)	1	UCBLTTDS	COUNT OF LONG TERM TEMPORARY DATA SETS (LTTDS) THAT ARE CURRENTLY ALLOCATED ON A DIRECT ACCESS DEVICE. LTTDS ARE INITIATOR SWADS AND DEDICATED WORK FILES. (OS/VS1)
+5	(5)	1	UCBRSV53	RESERVED (OS/VS1)
+6	(6)	1	UCBRSV54	RESERVED (OS/VS1)
+7	111	1	UCBRSV55 UCBRSV56 UCBRSV57 UCBRSV58 UCBRSV59 UCBRSV60 UCBRSV61 UCBRSV62 UCBRSV63	RESERVED (OS/VS1)
		PRE	FIX TO THE	MAGNETIC TAPE UCB EXTENSION
+0	(0)	4	UCBTEXP	SAME AS UCBTEXPA BELOW
+0	(0)	1	UCBRSV33	RESERVED

OF	FSET	LENGT	H NAME	DESCRIPTION
+1	(1)	3	UCBTEXPA	ADDRESS OF THE EXCPCNTS TABLE ENTRY FOR THIS MAGNETIC TAPE DEVICE
+4	(4)	1	UCBMTPND	END OF PREFIX
		MAGI	NETIC TAPE U	CB EXTENSION
+0	(0)	8	UCBROR	READ OPPOSITE DIRECTION RECOVERY CCW
+8	(8)	2	UCBRSV34	RESERVED
+10	(A)	1	UCBTRT	TEMP READ ERROR THRESHOLD (IF ZERO THEN EVA ABSENT)
+11	(B)	1	UCBTWT	TEMP WRITE ERROR THRESHOLD (IF ZERO THEN EVA ABSENT)
+12	(C)	1	UCBTR	TEMP READ ERROR COUNT
+13	(D)	1	UCBTW	TEMP WRITE ERROR COUNT
+14	(E)	2	UCBSIO	SIO COUNT
+16	(10)	1	UCBPR	PERM READ ERROR COUNT
+17	(11)	1	UCBPW	PERM WRITE ERROR COUNT
+18	(12)	1	UCBNB	NOISE BLOCK COUNT
+19	(13)	1	UCBMS	MODE SET OPERATION CODE FOR DATA BLOCKS ON 3420
+20	(14)	2	UCBERG	ERASE GAP COUNT
+22	(16)	2	UCBCLN	CLEANER ACTION COUNT
		TAP	E CARTRIDGE	READER (2495) UCB EXTENSION
+0	(0)	24	UCBTCERP	ERROR RECOVERY CHANNEL PROGRAM
+0	(0)	8	UCBRCCW1	RETRY CCW 1
+8	(8)	8	UCBRCCW2	RETRY CCW 2
+16	(10)	8	UCBRCCW3	RETRY CCW 3
+24	(18)	8	UCBCSWSA	CSW SAVE AREA
		OPT	ICAL READER	(1287, 1288) UCB EXTENSION
+0	(0)	1	UCBCRDDC	DATA CHECK ERROR COUNT
+1	(1)	1	UCBCRILC	INCORRECT LENGTH ERROR COUNT
+2	(2)	1	UCBCRECC	EQUIPMENT CHECK ERROR COUNT
+3	(3)	5		RESERVED
			T RECORD WIT ENSION	H UNIVERSAL CHARACTER SET (1403, 3211) UCB
+0	(0)	4	UCBUCSID	ID OF UCS IMAGE IN BUFFER
+4	.1.		UCBUCSOP UCBUCSO1 UCBUCSO2 UCBRSV39 UCBRSV40 UCBRSV41 UCBRSV42 UCBRSV43 UCBUCSPE	FORMAT OF UCS IMAGE IN BUFFER (O FOR OPTION) DEFAULT IMAGE FOLD MODE RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED IMAGE HAS PARITY ERROR (3211)
+5	(5)	1	UCBFCBOP	RESERVED (1403) OR FLAGS (3211) (O FOR OPTION)

OFFSI	ET I	LENGTH	NAME	DESCRIPTION
	.1	1	UCBFCBO1 UCBRSV44 UCBRSV45 UCBRSV46 UCBRSV47 UCBRSV48 UCBRSV49	FCB DEFAULT IMAGE RESERVED RESERVED RESERVED RESERVED RESERVED RESERVED
		1	UCBRSV50	RESERVED
+6	(6)	1	UCBRSV51	RESERVED
+7	(7)	1	UCBERCNT	COUNT OF ERRORS THAT HAVE OCCURRED (3211)
+8	(8)	4	UCBFCBID	FCB IMAGE ID
+12	(C)	4	UCBERADR	ADDR OF ERP LOGOUT AREA
		POIN	TED TO BY TH	RMATION UCB EXTENSION: THIS EXTENSION IS HE UCBSNADR FIELD OF THE UCB AND IS NOT HE UCB.
+0	(0)	6	UCBSNSXT	SENSE INFORMATION
+6	(6)	2	UCBRSV52	RESERVED

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DATACELL DCELBBNR	52 (34) 27 (1B) +0 (0) +3 (3) +1 (1) *A* UCBDCELL *A* UCBDBBNR	UCBBSTR UCBBSVL UCBBTA UCBBTB UCBBUSYD UCBCELLS UCBCELLO	34 X'04' 34 X'80' 36 (24) 37 (25) 6 X'80' 56 (38) 56 (38)	UCBDVRES UCBDVSHR UCBDVTOC UCBERADR UCBERCNT UCBERG UCBERP	41 (29) 34 X'80' 68 (44) +12 (C) +7 (7) +20 (14) +104 (68)
DCELDMCT DCELJBNR DCELSTAB DCELSTAT DCELUSER DCELVOLI	*A* UCBDDMCT *A* UCBDJBNR *A* UCBDSTAB *A* UCBDSTAT *A* UCBDUSER *A* UCBDVOLI	UCBCELL1 UCBCELL2 UCBCELL3 UCBCELL4 UCBCELL5 UCBCELL6	72 (48) 88 (58) 104 (68) 120 (78) 136 (88) 152 (98)	UCBERPA UCBERPC UCBERR UCBESV UCBESVC UCBESVE	28 (1C) 48 X'10' 6 X'01' 48 X'80' 48 X'20' 48 X'08'
DCELVTOC SRTEALOC SRTEASCI SRTEBALB SRTEBJLB	*A* UCBDVTOC *A* UCBALOC *A* UCBBSTR *A* UCBBALB *A* UCBBJLB	UCBCELL7 UCBCELL8 UCBCELL9 UCBCHA UCBCHANA	168 (A8) 184 (B8) 200 (C8) 4 (4) 4 X'3F'	UCBETI UCBEVA UCBEXT UCBEXTA UCBEXTN	8 (8) 48 X'40' 60 (3C) 61 (3D) 56 (38)
SRTEBNUL SRTEBPRV SRTEBPUB SRTEBSTR SRTEBSVL	*A* UCBBNUL *A* UCBBPRV *A* UCBBPUB *A* UCBBSTR *A* UCBBSVL	UCBCHGS UCBCLN UCBCRDDC UCBCRECC UCBCRILC	3 X'40' +22 (16) +0 (0) +2 (2) +1 (1)	UCBEXTNA UCBEXTSN UCBFCBID UCBFCBOP UCBFCBO1	57 (39) 1 X'08' +8 (8) +5 (5) +5 X'80'
SRTEBVQS SRTECHGS SRTEDADI SRTEDMCT SRTEFSCT SRTEFSEQ	*A* SRTEBSTR *A* UCBCHGS *A* UCBDADI *A* UCBDMCT *A* UCBFSCT *A* UCBFSEQ	UCBCRWKA UCBCSWSA UCBCTLNA UCBCTLNK UCBDADI UCBDALOC	24 (18) +24 (18) 37 (25) 36 (24) 3 X'01' 59 X'08'	UCBFL1 UCBFL2 UCBFL3 UCBFL4 UCBFL5 UCBFL5	6 (6) *A* UCBFL1 +0 (0) 44 (2C) 1 (1) 60 (3C)
SRTEJBNR SRTEMNT SRTEONLI SRTEPRES SRTERESV	*A* UCBJBNR *A* UCBMONT *A* UCBONLI *A* UCBPRES *A* UCBRESV	UCBDASD UCBDAV UCBDBBNR UCBDBJLB UCBDBNUL	40 (28) 44 X'F8' 56 (38) 58 X'02' 58 X'01'	UCBFL7 UCBFSCT UCBFSEQ UCBFSER UCBFT	22 (16) 36 (24) 38 (26) 40 (28) 44 X'20'
SRTESTAB SRTESTAT SRTESYSR SRTEUNLD SRTEUSER	*A* UCBSTAB *A* UCBSTAT *A* UCBSYSR *A* UCBUNLD *A* UCBUSER	UCBDBPRS UCBDBPRV UCBDBPUB UCBDBSTR UCBDBSVL	58 X'20' 58 X'10' 58 X'08' 58 X'04' 58 X'80'	UCBGCB UCBHALI UCBHIO UCBHIOA UCBHIOB	27 (1B) 11 X'02' 4 X'80' +0 X'10' +0 X'20'
SRTEVOLI UCBACU UCBAF UCBALOC UCBALTCU UCBALTPH	*A* UCBVOLI +0 X'80' 1 X'40' 3 X'08' 1 X'02' 1 X'01'	UCBDC UCBDCELL UCBDDMCT UCBDDMNT UCBDEM UCBDEXP	216 (D8) 56 (38) 67 (43) 67 X'80' 0 X'02' +0 (0)	UCBHPDV UCBID UCBIN UCBINTER UCBIPL UCBIRB	11 X'01' 2 (2) 12 X'80' 6 X'10' +3 X'01' 28 (1C)
UCBAMV UCBAOF UCBAOF1 UCBAOF2 UCBASCI	1 X'40' 24 (18) 24 (18) 25 (19) *A* SRTEASCI	UCBDEXPA UCBDI UCBDJBNR UCBDMC UCBDMCT	+1 (1) 36 (24) 66 (42) 35 X'7F' 35 (23)	UCBIRLN UCBJBNR UCBJBNRF UCBKEY UCBLCI	32 (20) 0 (0) 0 X'FC' 0 X'FO' 10 (A)
UCBASDEP UCBASNDE UCBATI UCBATNCT UCBATRCD UCBBALB	22 X'80' 48 X'01' 11 (B) 26 (1A) 27 X'01' 34 X'20'	UCBDNORM UCBDPRES UCBDRESV UCBDSS UCBDSTAB UCBDSTAT	59 X'80' 59 X'04' 59 X'20' 60 X'80' 58 (3A) 59 (3B)	UCBLTS UCBLTTDS UCBMNT UCBMOD UCBMONT UCBMOUNT	20 (14) +4 (4) 44 X'80' 4 X'40' 0 X'01' 35 X'80'
UCBBJLB UCBBNUL UCBBPRV UCBBPUB	34 X'02' 34 X'01' 34 X'10' 34 X'08'	UCBDTI UCBDUNLD UCBDUSER UCBDVOLI	7 (7) 59 X'10' 71 (47) 60 (3C)	UCBMPFLG UCBMS UCBMTPND UCBNALOC	+3 (3) +19 (13) +4 (4) 1 X'04'

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
UCBNAME UCBNB UCBNBRSN	13 (D) +18 (12) 24 (18)	UCBRSV22 UCBRSV23 UCBRSV24	60 X'40' 60 X'20' 60 X'10'	UCBSENSA UCBSENSB UCBSENSE	25 (19) 24 (18) 24 (18)
UCBNOA	+0 X'01'	UCBRSV25	60 X 10	UCBSENSN	24 (18)
UCBNOB	+0 X'02'	UCBRSV26	60 X'04'	UCBSIO	+14 (E)
UCBNOTRC	6 X'08'	UCBRSV27	60 X'02'	UCBSIOB	+0 X'08'
UCBNOTRD	6 X'40' 24 X'80'	UCBRSV28	60 X'01'	UCBSKA	48 (30)
UCBOFMCR UCBOFNL	24 X'80' 24 X'20'	UCBRSV29 UCBRSV30	59 X'40' 59 X'02'	UCBSKPFG UCBSNADR	27 X'02' 25 (19)
UCBOFSP	24 X'40'	UCBRSV31	59 X'01'	UCBSNS	22 (16)
UCBOLTEP	27 X'80'	UCBRSV32	+0 (0)	UCBSNSXT	+0 (0)
UCBONLI	3 X'80'	UCBRSV33	+0 (0)	UCBSQC	40 (28)
UCBOPEN	26 (1A) 44 X'07'	UCBRSV34	+8 (8)	UCBSTAB	34 (22)
UCBORCNT UCBORSVA	44 (2C)	UCBRSV35 UCBRSV39	58 X'40' +4 X'20'	UCBSTART UCBSTAT	32 (20) 3 (3)
UCBORSVB	45 (2D)	UCBRSV40	+4 X'10'	UCBSTI	9 (9)
UCBOUT	12 X'40'	UCBRSV41	+4 X'08'	UCBSTS	6 X'06'
UCBOVFLW	+144 (90)	UCBRSV42	+4 X'04'	UCBSYSR	3 X'02'
UCBPATH	12 X'OF'	UCBRSV43	+4 X'02'	UCBTBYT1	16 (10)
UCBPATHO UCBPATH1	12 X'08' 12 X'04'	UCBRSV44 UCBRSV45	+5 X'40' +5 X'20'	UCBTBYT2 UCBTBYT3	17 (11) 18 (12)
UCBPATH2	12 X'02'	UCBRSV46	+5 X'10'	UCBTBYT4	19 (13)
UCBPATH3	12 X'01'	UCBRSV47	+5 X'08'	UCBTCC	44 X'10'
UCBPGFL	34 X'40'	UCBRSV48	+5 X'04'	UCBTCERP	+0 (0)
UCBPR	+16 (10)	UCBRSV49	+5 X'02'	UCBTEB	28 (1C)
UCBPRES UCBPROC	3 X'04' +3 X'02'	UCBRSV50 UCBRSV51	+5 X'01' +6 (6)	UCBTEXP UCBTEXPA	+0 (0) +1 (1)
UCBPRSRS	34 X'20'	UCBRSV52	+6 (6)	UCBTICBT	1 X'20'
UCBPUB	12 X'20'	UCBRSV53	+5 (5)	UCBTR	+12 (C)
UCBPW	+17 (11)	UCBRSV54	+6 (6)	UCBTRT	+10 (A)
UCBRCCW1	+0 (0)	UCBRSV55	+7 (7)	UCBTW	+13 (D)
UCBRCCW2 UCBRCCW3	+8 (8) +16 (10)	UCBRSV56 UCBRSV57	+7 X'80' +7 X'40'	UCBTWT UCBTYP	+11 (B)
UCBRESV	3 X'20'	UCBRSV58	+7 X'20'	UCBUA	16 (10) 5 (5)
UCBREW	12 X'10'	UCBRSV59	+7 X'10'	UCBUCSID	+0 (0)
UCBRIPND	27 X'04'	UCBRSV60	+7 X'08'	UCBUCSOP	+4 (4)
UCBRLN	36 (24)	UCBRSV61	+7 X'04'	UCBUCSO1	+4 X'80'
UCBROR UCBRQESV	+0 (0) 42 (2A)	UCBRSV62 UCBRSV63	+7 X'02' +7 X'01'	UCBUCSO2 UCBUCSPE	+4 X'40' +4 X'01'
UCBRSV01	0 X'08'	UCBRSV64	24 X'10'	UCBUNLD	3 X'10'
UCBRSV02	0 X'04'	UCBRSV65	24 X'08'	UCBUSER	56 (38)
UCBRSV03	1 X'80'	UCBRSV66	24 X'04'	UCBUSING	6 X'20'
UCBRSV04	11 X'80'	UCBRSV67	24 X'02'	UCBVER	44 X'08'
UCBRSV05 UCBRSV06	11 X'40' 11 X'20'	'JCBRSV68 UCBRSV69	24 X'01' 25 X'80'	UCBVOLI UCBVOPT	28 (1C) 48 (30)
UCBRSV07	11 X'10'	UCBRSV70	25 X'40'	UCBVSDR	1 X'10'
UCBRSV08	11 X'08'	UCBRSV71	25 X'20'	UCBVTOC	36 (24)
UCBRSV09	11 X'04'	UCBRSV72	25 X'10'	UCBVVRTN	44 X'40'
UCBRSV10	18 X'02'	UCBRSV73	25 X'08'	UCBWGT	12 (C)
UCBRSV11 UCBRSV12	18 X'01' 22 X'40'	UCBRSV74 UCBRSV75	25 X'04' 25 X'02'	UCBXTADR UCBXTN	28 (1C) 48 (30)
UCBRSV13	22 X'20'	UCBRSV76	25 X'01'	UCBXTNB	49 (31)
UCBRSV14	22 X'10'	UCBRSV77	27 X'40'	UCB1FEA0	16 X'80'
UCBRSV15	22 X'08'	UCBRSV78	27 X'20'	UCB1FEA1	16 X'40'
UCBRSV16	22 X'04' 22 X'02'	UCBRSV79	27 X'10'	UCB1FEA2	16 X'20'
UCBRSV17 UCBRSV18	22 X'02' 22 X'01'	UCBRSV80 UCBRSV81	27 X'08' 33 (21)	UCB1FEA3 UCB1FEA4	16 X'10' 16 X'08'
UCBRSV19	23 (17)	UCBRSV82	34 (22)	UCB1FEA5	16 X'04'
UCBRSV20	48 X'04'	UCBSEN	24 (18)	UCB1FEA6	16 X'02'
UCBRSV21	48 X'02'	UCBSENS	24 (18)	UCB1FEA7	16 X'01'

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
UCB2OPT0	17 X'80'				
UCB2OPT1	17 X'40'				
UCB2OPT2	17 X'20'				
UCB2OPT3	17 X'10'				
UCB2OPT4	17 X'08'				
UCB2OPT5	17 X'04'				
UCB2OPT6	17 X'02'				
UCB2OPT7	17 X'01'				
UCB2400	19 X'01'				
UCB3CHAR	18 X'04'				
UCB3COMM	18 X'40'				
UCB3DACC	18 X'20'				
UCB3DISP	18 X'10'				
UCB3TAPE	18 X'80'				
UCB3UREC	18 X'08'				
UCB42AD1	19 X'11'				
		ΕÌ	ND OF UCB		

The UCBTYP Field in the Unit Control Block

The UCBTYP field completely describes the device type. It is the exact analog of the full device name, except that it includes terminal adapters and similar units when they are part of the necessary description. The field is described separately by type of entry and by type of device.

OFFSE	T LE	NGTH NAME	DESCRIPTION
			UNIT RECORD DEVICE CLASS
16 (10)	1	BYTE 1.
	xxxx . x	 xxxx	I/O SUPERVISOR FLAGS. RESERVED BIT. OVERRUNNABLE DEVICE. BURST MODE. BYTE MODE. DATA CHAINING. MODEL CODE. 1442,2520 CARD READ PUNCH. 1442,2520 CARD PUNCH ONLY.
17 (11)	1	OPTIONAL FEATURES.
	1 x x x111	xxx.	UNIVERSAL CHARACTER SET (UCS). RESERVED BITS. 3525 TWO-LINE PRINT FEATURE. 3525 MULTI-LINE PRINT FEATURE. CARD IMAGE (BINARY MODE).
18 (12)	1	DEVICE CLASS.
	0000 1	000	HEXADECIMAL 08 - UNIT RECORD.
19 (13)	1	UNIT TYPE.
	0000 0 0000 0 0000 0 0000 0 0000 0	0011 0011 0100 0101 0110	01 2540 CARD READER 02 2540 CARD PUNCH 03 1442 CARD READ PUNCH 04 2501 CARD READER 05 2520 CARD READ PUNCH 06 3505 CARD READER 08 1403 PRINTER (MODELS N1, 2, 7) AND 1404 PRINTER (CONTINUOUS FORM SUPPORT ONLY)
	0000 1	1001	09 3211 PRINTER.
	0000 1	1010	OA 1443 PRINTER (MODEL N1 ONLY)
	0000 1		OC 3525 CARD PUNCH OF 3800 10 2671 PAPER TAPE READER
	0001 1	1000	18 2495 TAPE CARTRIDGE READER
	0001 1		1B 1287 OPTICAL READER
	0001 1		1C 1288 OPTICAL PAGE READER 1D 1419 MAGNETIC CHARACTER READER (PRIMARY
	0001 1		CONTROL UNIT) 1E 1419 MAGNETIC CHARACTER READER OR 1275 OPTICAL READER SORTER (SECONDARY CONTROL UNIT)
	0001 1	1111	1F 1275 OPTICAL READER SORTER (PRIMARY CONTROL
	0010 0 0010 0 0010 0	0010 0011	UNIT) 20 1052 CONSOLE PRINTER-KEYBOARD 22 3210 CONSOLE PRINTER-KEYBOARD 23 3215 CONSOLE PRINTER-KEYBOARD 30 3213 PRINTER

OF	FSET LENGTH NAME	DESCRIPTION
	MAGNETIC TAPE D	EVICE CLASS
16	(10) 1	BYTE 1.
	xxxx x .1 1 0 1 xxxx x.xx	I/O SUPERVISOR FLAGS. RESERVED BIT. OVERRUNNABLE DEVICE. BURST MODE. BYTE MODE. DATA CHAINING. MODEL CODE. RESERVED BITS. PHASE ENCODING (MODELS 4, 5, 6, AND 7)
17	(11) 1	OPTIONAL FEATURES.
18	1 .1 1 x xxxx (12) 1	7-TRACK COMPATIBILITY (24XX) DATA CONVERSION (24XX) DUAL DENSITY (24XX) 800/1600 RESERVED BITS DUAL 1600/1250 DEVICE CLASS.
	1000 0000	80 MAGNETIC TAPE.
19	(13) 1	UNIT TYPE.
	0000 0001 0000 0011	01 2400 SERIES MAGNETIC TAPE UNIT 03 3400 SERIES MAGNETIC TAPE UNIT

OFE	SET	LENGTH	NAME	DESCRIPTION
		DIRECT	ACCESS ST	ORAGE DEVICE CLASS
16	(10)	1		BYTE 1.
	x .1 1.			I/O SUPERVISOR FLAGS. RESERVED BIT. OVERRUNNABLE DEVICE. BURST MODE. BYTE MODE. DATA CHAINING. MODEL CODE.
17	(11)	1		OPTIONAL FEATURES.
		 		TRACK OVERFLOW. THIS DEVICE CAN BE SHARED BY TWO OR MORE CPUS. ROTATIONAL POSITION SENSING DEVICE. RESERVED BITS.
18	(12)	1		DEVICE CLASS.
	0010	0000		20 DIRECT ACCESS STORAGE DEVICE.
19	(13)	1		UNIT TYPE.
	0000	0 0110 0 0111 0 1000 0 1001		06 2305 FIXED HEAD STORAGE MODEL 1 07 2305 FIXED HEAD STORAGE MODEL 2 08 2314/2319 DIRECT ACCESS STORAGE FACILITY 09 3330 SERIES DISK STORAGE

OFFSET LENGTH NAME DESCRIPTION

GRAPHIC DEVICES CLASS

2250 DISPLAY UNIT

16	(10) 1	BYTE 1.
	xxxx 0011	DEVICE CLASS. 3- 2250
		MODEL CODE.
	xxxx 0001	-1 MODEL 1
	0010	-2 MODEL 2
47	0011	-3 MODEL 3
17	(11) 1	OPTIONAL FEATURES.
	0000	MODEL FEATURES
	0000 0001	0- 1,2,3 NO OPTIONAL FEATURES. 1- 1,2,3 PROGRAMMED FUNCTION KEYBOARD ONLY.
	0010	1- 1,2,3 PROGRAMMED FUNCTION KEYBOARD ONLY. 2- 1,2 LIGHT PEN ONLY.
	0011	3- 1,2 PROGRAMMED FUNCTION KEYBOARD AND LIGHT PEN.
	0100	4- 1,2,3 ALPHAMERIC KEYBOARD ONLY.
	0101	5- 1,2,3 PROGRAMMED FUNCTION KEYBOARD AND
		ALPHAMERIC KEYBOARD.
	0110	6- 1,2 ALPHAMERIC KEYBOARD AND LIGHT PEN.
	0111	7- 1,2 ALPHAMERIC KEYBOARD, LIGHT PEN, AND PROGRAMMED FUNCTION KEYBOARD.
	1000	8- 1,2 ABSOLUTE VECTOR GRAPHICS ONLY.
	1001	9- 1,2 ABSOLUTE VECTOR GRAPHICS AND
	1010	PROGRAMMED FUNCTION KEYBOARD.
	1010	A- 1,2 ABSOLUTE VECTOR GRAPHICS AND LIGHT PEN.
	1011	B- 1,2 ABSOLUTE VECTOR GRAPHICS, PROGRAMMED
		FUNCTION KEYBOARD, AND LIGHT PEN.
	1100	C- 1,2 ABSOLUTE VECTOR GRAPHICS AND
	4404	ALPHAMERIC KEYBOARD.
	1101	D- 1,2 ABSOLUTE VECTOR GRAPHICS, PROGRAMMED FUNCTION KEYBOARD AND
		ALPHAMERIC KEYBOARD.
	1110	E- 1,2 ABSOLUTE VECTOR GRAPHICS, ALPHAMERIC
		KEYBOARD AND LIGHT PEN.
	1111	F- 1,2 ABSOLUTE VECTOR GRAPHICS, ALPHAMERIC
		KEYBOARD, LIGHT PEN, AND PROGRAMMED FUNCTION KEYBOARD.
	0000	-0 1 NO OPTIONAL FEATURES.
	0001	-1 1 4K BUFFER ONLY.
	0010	-2 1 8K BUFFER ONLY.
	0011	-3 1 CHARACTER GENERATOR ONLY.
	0100	-4 1 4K BUFFER AND CHARACTER GENERATOR.
	0101 0110	-5 1 8K BUFFER AND CHARACTER GENERATOR6 1 GRAPHIC DESIGN FEATURE ONLY.
	0111	-7 1 GRAPHIC DESIGN FEATURE AND 4K BUFFER
	1000	-8 1 GRAPHIC DESIGN FEATURE AND 8K BUFFER
	1001	-9 1 GRAPHIC DESIGN FEATURE AND
		CHARACTER GENERATOR.
	1010	-A 1 GRAPHIC DESIGN FEATURE, 4K
	1011	BUFFER, AND CHARACTER GENERATORB 1 GRAPHIC DESIGN FEATURE, 8K BUFFER,
		AND CHARACTER GENERATOR.
18	(12) 1	DEVICE CLASS.
	0001 0000	10 GRAPHICS.
19	(13) 1	UNIT TYPE.
	0010 0000	02 2250 DISPLAY UNIT

OFFSET LENGTH NAME DESCRIPTION GRAPHICS DEVICE CLASS 2250 DISPLAY UNIT 16 (10)1 BYTE 1. DEVICE CLASS. xxxx 1- 1053, 2260 0001 xxxx MODEL CODE. 0001 -1 MODEL 1 -2 MODEL 2 0010 OPTIONAL FEATURES. (11)1 17 FEATURE 0-0000 NO OPTIONAL FEATURES. 0001 1 – LINE ADDRESSING ONLY. 2-NUMERIC KEYBOARD ONLY. 0010 0011 LINE ADDRESSING AND NUMERIC 3-KEYBOARD. 0100 4-ALPHAMERIC KEYBOARD ONLY. LINE ADDRESSING AND ALPHAMERIC 0101 5-KEYBOARD. NON-DESTRUCTIVE CURSOR ONLY. 0110 6-LINE ADDRESSING AND NON-DESTRUCTIVE 0111 7-CURSOR. 1000 8-NUMERIC KEYBOARD AND NON-DESTRUCTIVE CURSOR. 1001 LINE ADDRESSING, NUMERIC KEYBOARD, 9-AND NON-DESTRUCTIVE CURSOR. 1010 ALPHAMERIC KEYBOARD AND A-NON-DESTRUCTIVE CURSOR. 1011 R-LINE ADDRESSING, ALPHAMERIC KEYBOARD, AND NON-DESTRUCTIVE CURSOR. 1100 C-DATA ENTRY KEYBOARD ONLY. DATA ENTRY KEYBOARD AND LINE 1101 D-ADDRESSING. 1110 E-DATA ENTRY KEYBOARD AND NON-DESTRUCTIVE CURSOR. 1111 F-DATA ENTRY KEYBOARD, LINE ADDRESSING, AND NON-DESTRUCTIVE 2848 DISPLAY CONTROL, MODEL 1 WITH 1010 -A 240 CHARACTER DISPLAY CAPABILITY. 2848 DISPLAY CONTROL, MODEL 2 WITH 1011 -B480 CHARACTER DISPLAY CAPABILITY. 2848 DISPLAY CONTROL, MODEL 3 WITH 960 CHARACTER DISPLAY CAPABILITY. -C * 1100 2848 DISPLAY CONTROL, MODEL 21 WITH 1101 -D 240 CHARACTER DISPLAY CAPABILITY. 2848 DISPLAY CONTROL, MODEL 22 WITH 1110 -E480 CHARACTER DISPLAY CAPABILITY. DEVICE CLASS. 18 (12)1 0001 0000 10 GRAPHICS. UNIT TYPE. 19 (13)1 0000 0011 03 2260 DISPLAY STATION

<u>of</u>	FSET	LENGTH NAME	DESCRIPTION
			GRAPHICS DEVICE CLASS 3270 DISPLAY SYSTEM DEVICES 3277 DISPLAY STATION, 3158 DISPLAY CONSOLE
16	(10)		MODEL CODE.
		0001 0010	11 MODEL 1 12 MODEL 2, 3158 DISPLAY CONSOLE
17	(11)	1	OPTIONAL FEATURES.
	001. 010. 011. 100. 101. 110. 1		KEYBOARD TYPE. NO KEYBOARD. 66-KEY EBCDIC TYPEWRITER KEYBOARD. 78-KEY EBCDIC TYPEWRITER KEYBOARD. 66-KEY DATA ENTRY KEYBOARD. 78-KEY OPERATOR CONSOLE KEYBOARD. 66-KEY ASCII TYPEWRITER KEYBOARD. 78-KEY ASCII TYPEWRITER KEYBOARD. AUDIBLE ALARM FEATURE. CHARACTER GENERATOR TYPE. DOMESTIC CHARACTER GENERATOR. ASCII A CHARACTER GENERATOR. ASCII B CHARACTER GENERATOR. UNITED KINGDOM CHARACTER GENERATOR. FRENCH CHARACTER GENERATOR. GERMAN CHARACTER GENERATOR. CHARACTER GENERATOR. CHARACTER GENERATOR. CHARACTER GENERATOR. CHARACTER GENERATOR.
18	(12)	1	DEVICE CLASS.
	0001	0000	10 GRAPHICS
19	(13)	1	DEVICE TYPE.
		1001 1100	09 3277 DISPLAY STATION OC 3158 DISPLAY CONSOLE

OF	FSET	LENGTH N	AME	DESCRIPTION
				GRAPHICS DEVICE CLASS
				3270 DISPLAY SYSTEM DEVICES
				3284 AND 3286 PRINTERS
16	(10)	1		MODEL CODE.
	0001 0001	0001 0010		MODEL 1. MODEL 2.
17	(11)	1		OPTIONAL FEATURES. RESERVED - NO OPTIONAL FEATURES.
18	(12)	1		DEVICE CLASS.
	000	1 0000		10 GRAPHICS.
19	(13)	1		UNIT TYPE.
		0 1010 0 1011		OA 3284 PRINTER OB 3286 PRINTER

	OFFS	SET I	ENGTH NAM	ME	DESCR	RIPTION
					GRAPH	ICS DEVICE CLASS
					OTHER	GRAPHIC DEVICES
1	6	(10)	1		BYTE	1.
		0001	0010		14	1053 PRINTER MODEL 4
1	7	(11)	1		OPTIC	NAL FEATURES.
		0000	0000		00	NO OPTIONAL FEATURES.
1	8	(12)	1		DEVIC	CE CLASS
		0001	0000		10	GRAPHICS.
1	9	(13)	1		UNIT	TYPE.
		0000			04 08	1053 PRINTER 3066 SYSTEM CONSOLE

```
DESCRIPTION
  OFFSET
           LENGTH NAME
                              COMMUNICATION EQUIPMENT DEVICE CLASS
16
      (10)
             1
                              BYTE 1.
       xxxx ....
                              I/O SUPERVISOR FLAGS.
                              RESERVED BIT.
       x...
       .1.. ....
                              OVERRUNNABLE DEVICE.
       ..1. ....
                              BURST MODE.
       ..0. ....
                              BYTE MODE.
       ...1 ....
                              DATA CHAINING.
                              MODEL CODE - THE VALUE IN THIS FIELD AND THE
       .... xxxx
                              VALUE IN THE ADAPTER TYPE FIELD (BYTE 19)
                              TOGETHER IDENTIFY THE MODEL.
                                 ADAPTER
                                            UNIT
                                 TYPE
       ... 0001
                                             1050
                              - 1
                                   1-
                                   2-
                                              1030
                                   3-
                                              1050
                                   4-
                                              83B3
                                   5-
                                              TWX
                                   6-
                                              WTTA
                                   8-
                                              2260
       .... 0010
                              -2
                                   1 –
                                              1060
                                   4-
                                              115A
                              -3
       .... 0011
                                   1 –
                                              2740 (CORRESPONDANCE CODE)
       .... 0100
                              -4
                                  1 –
                                              2740
       ... 0101
                              -5
                                   1 –
                                              2741C (CORRESPONDANCE CODE)
                                   9-
                                              BSC1 NON-SWITCHED POINT TO POINT
       .... 0110
                              -6
                                   1 –
                                              2741P (PTTC/BCD OR PTTC/EBCDIC)
                                   9-
                                              BSC2(SWITCHED POINT TO POINT)
                              -7
       .... 0111
                                   1-
                                              1050X (INHIBIT)
                                   9-
                                              BSC3(NON-SWITCHED MULTIPOINT)
       .... 1000
                              -8
                                   1 –
                                              2740X (INHIBIT)
17
      (11)
            1
                              OPTIONAL FEATURES.
                              AUTOMATIC CALLING.
       .1.. ....
                              AUTOMATIC POLLING.
       ..1. ....
                              CHECKING (2740 ONLY)
       ...1 ....
                              DUAL COMMUNICATION INTERFACE (2701 SDA-II)
       .... 1...
                              AUTOMATIC ANSWERING
       .... .1..
                              DUAL CODE (2701 SDA-II)
       .... 10...
                              STATION CONTROL (2740 ONLY)
       .... 01..
                              TRANSMIT CONTROL (2740 ONLY)
       .... 11..
                              OPTICAL IMAGE UNIT.
       .... ..XX
                              BINARY VALUE
       .... ..00
                              SADZER
       .... ..01
                              SADONE
                              SADTWO
       .... ..10
                              SADTHREE
       .... ..11
18
      (12)
              1
                              DEVICE CLASS.
       0100 0000
                              40
                                   COMMUNICATION EQUIPMENT
19
      (13)
                              UNIT TYPE.
       xxxx ....
                              ADAPTER TYPE.
       0001 ....
                                   IBM TERMINAL ADAPTER TYPE I
       0010 ....
                              2-
                                   IBM TERMINAL ADAPTER TYPE II
       0011 ....
                              3-
                                   IBM TELEGRAPH ADAPTER
                              4-
       0100 ....
                                   TELEGRAPH ADAPTER TYPE I
                              5-
                                   TELEGRAPH ADAPTER TYPE II
       0101 ....
       0110 ....
                              6-
                                   WORLD TRADE TELEGRAPH ADAPTER
       0111 ....
                              7-
                                   SYNCHRONOUS ADAPTER TYPE I
                              8-
                                   IBM TERMINAL ADAPTER TYPE III
       1000 ....
       1001 ....
                              9-
                                   SYNCHRONOUS ADAPTER TYPE II
```

OFFSET	LENGTH NAME	DESC	RIPTION
• •	xxxx	CONT	ROL UNIT.
	0001	-1	2702
	0010	-2	2701
	0011	-3	2703
	0100	-4	2955

Volume Label

A volume label is 80 characters long and identifies the volume and its owner.

On magnetic tape volumes, the volume label is the first record on the tape. On nine-track tape, it is written in EBCDIC; on seven-track tape, it is written in BCD.

On direct access volumes, it is record number three, following two IPL records. It is recorded as an 84 byte physical record consisting of a 4 byte key area containing 'VOL1' and an 80 byte data area. Both areas are written in EBCDIC.

OFF	SET	LENGT	H NAME	DESCRIPTION
0	(0)	3	VOLLABI	LABEL IDENTIFIER. THE EBCDIC CHARACTERS 'VOL'.
3	(3)	1	VOLNO	VOLUME LABEL SEQUENCE NUMBER.
4	(4)	6	VOLSERNO	VOLUME SERIAL NUMBER THAT UNIQUELY IDENTIFIES THE VOLUME. THIS FIELD MAY CONTAIN FROM ONE TO SIX ALPHABETIC, NUMERIC, OR SPECIAL CHARACTERS, LEFT JUSTIFIED WITH BLANKS IN THE REMAINDER OF THE FIELD.
10	(A)	1		RESERVED. MUST BE RECORDED AS EBCDIC ZEROS.
11	(B)	5	VOLVTOC	DASD: THE CCHHR ADDRESS OF THE VTOC DSCB ON THIS VOLUME.
11	(B)	5		MAGNETIC TAPE: RESERVED. MUST BE RECORDED AS EBCDIC BLANKS.
16	(10)	25		RESERVED. MUST BE RECORDED AS EBCDIC BLANKS.
41	(29)	10	VOLOWNER	THE NAME AND ADDRESS OF THE INSTALLATION OR USER TO WHOM THE VOLUME BELONGS.
51	(33)	29		RESERVED. MUST BE RECORDED AS EBCDIC BLANKS.
				ASCII VOLUME LABEL
0	(0)	3	VOLLABI	LABEL IDENTIFIER. EBCDIC CHARACTERS 'VOL'.
3	(3)	1	VOLNO	VOLUME LABEL NUMBER. MUST BE ONE.
4	(4)	6	VOLSERNO	UNIQUE IDENTIFICATION PERMANENTLY ASSIGNED TO THE OWNER TO IDENTIFY THIS PHYSICAL VOLUME.
10	(A)	1	VOLSEC	INDICATION OF RESTRICTION ON WHO MAY HAVE ACCESS TO THE INFORMATION ON THIS VOLUME. A SPACE INDICATES UNLIMITED ACCESS. ANY OTHER CHARACTER MEANS THAT THIS VOLUME IS PROTECTED AND WILL NOT BE PROCESSED. A MESSAGE WILL BE WRITTEN TO THE OPERATOR.
11	(B)	26		RESERVED. MUST BE RECORDED AS SPACES.
37	(25)	14	AVOLOWNR	IDENTIFIES THE OWNER OF THE PHYSICAL VOLUME.
51	(33)	28	RESE	RVED. MUST BE RECORDED AS SPACES.
79	(4F)	1	LABSTAND	THIS FIELD IS SET TO ONE IF THE LABELS AND DATA FORMATS ON THIS VOLUME CONFORM TO THE REQUIREMENTS OF THE ASCII STANDARDS.

Volume Table of Contents

The volume table of contents (VTOC) is a data set consisting of data set control blocks (DSCBs). The format of the VTOC, and its relation to user labels, is shown in Figure 1. A description follows the illustration. Each DSCB format is described separately.

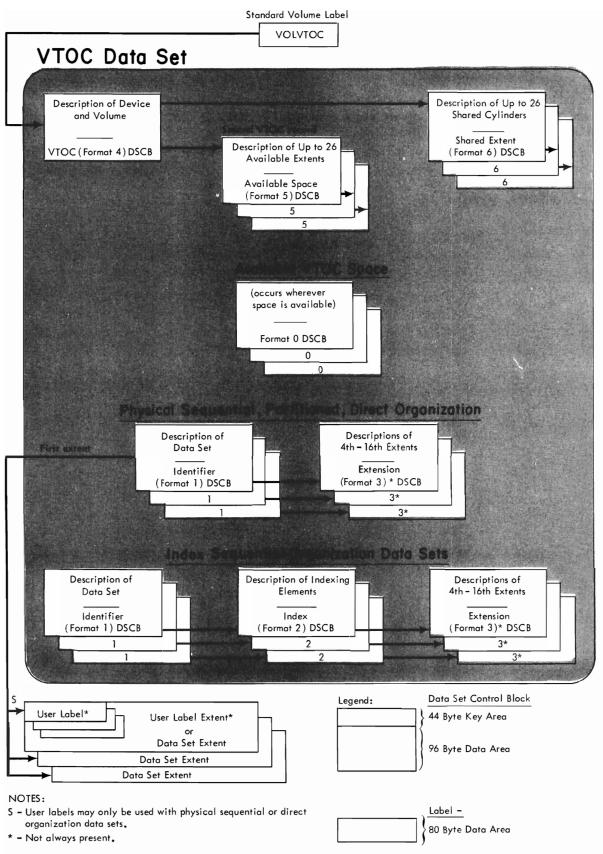


Figure 1. Volume Table of Contents

Volume Table of Contents

The volume table of contants (VTOC) is a data set consisting of control blocks that describe the contents of a direct access storage device volume. (The data set has a single extent; its address is found in the standard volume label.) Each data set control block (DSCB) is recorded as a format F (fixed length) record/block, with the record length and block length equal to 140 bytes. DSCBs are recorded as 140 byte physical records with a 44 byte key area and a 96 byte data area.

Seven DSCB formats exist to accommodate various kinds of information about a volume and the data sets that reside on it. DSCB formats 1, 2, and 3 provide data set information; format 4 describes the VTOC data set itself, its size and the characteristics of the device it resides on; formats 5 and 6 describe the available or shared space on the volume. The 140-byte records that are not occupied by one of these DSCBs are called format 0 DSCBs and contain binary zeros. (For additional information about each DSCB format, refer to the DSCB section of this publication.)

At the beginning of the VTOC is a single format 4 DSCB. It is followed immediately by a format 5 DSCB. If there are any more format 5 DSCBs, they are chained from the first format 5 DSCB.

If there are any format 6 DSCBs, they are chained from the format 4 DSCB. For every data set on the volume there is a format 1 DSCB, and also a format 2 DSCB, if the data set has indexed sequential organization and is the first volume of the data set. Format 1 DSCBs are found by using a Search (Equal) command with an argument of the DSNAME operand; they are not chained to one another or to the format 4 DSCB. If the data set has more than three extents, a format 3 DSCB is chained from the format 1 DSCB, or from the format 2 DSCB in the case of indexed sequential organization. Any space remaining on the VTOC extent carries format 0 DSCBs.

User labels, if used, occupy the first extent described by a format 1 DSCB. This extent, a separate one for each data set, is one track long; the labels form 80 byte data segments.

Time Sharing Option Data Areas

The time-sharing option (TSO) data areas described in the following sections are those that can be used to write and interpret TSO commands and those that are required to replace the TSO driver routines.

Driver Parameter Area

The driver parameter area (DPA) contains parameter information for the time sharing driver. The DPA is 20 bytes long and is part of the resident portion of TSO.

OF	FSET	LENGT	H NAME	DESCRIPTION
0	(0)	2	DPATJID	TIME SHARING JOB IDENTIFICATION
2	(2)	1	DPARES	RESERVED
3	(3)	1	DPAENT	ENTRY CODE
4	(4)	4	DPAVAR	CONTENTS OF REG 1 ON ENTRY TO TSIP OR RETURN INFO FOR TSIP CALLER
8	(8)	4	DPATOD	TIME OF DAY REQUESTED BY TS DRIVER
12	(C)	4	DPATSIA	ADDRESS OF TSIA
16	(10)	4	DPADCA	ADDRESS OF DRIVER CONTROL AREA (DCA)
20	(14)		DPAEND	LABEL FOR END OF DPA

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
DPADCA	16 (10)				
DPAEND	20 (14)				
DPAENT	3 (3)				
DPARES	2 (2)				
DPATJID	0 (0)				
DPATOD	8 (8)				
DPATSIA	12 (C)				
DPAVAR	4 (4)				
		-	ND OF DD3		

Environment Control Table

The environment control table (ECT) is a data area constructed by the terminal monitor program (TMP) initialization routine. It contains information about the user's environment in the foreground region. The ECT resides in a non-shared subpool and is updated by the command processors. It is used by the TMP and the command processors.

OFE	SET	LENGTI	H NAME	DESCRIPTION
0	(0)	1	ECTRCDF	HIGH ORDER BIT INDICATES CP ABENDED
1	(1)	3	ECTRTCD	RETURN CODE FROM LAST CP-(ABEND CODE IF ECTRCDF IS SET)
4	(4)	4	ECTIOWA	ADDR OF I/O SERVICE ROUTINES WORK AREA
8	(8)	1	ECTMSGF	HIGH ORDER BIT SET MEANS DELETE SECOND LEVEL MSG
9	(9)	3	ECTSMSG	ADDR OF SECOND LEVEL MSG CHAIN
12	(C)	8	ECTPCMD	PRIMARY COMMAND NAME
20	(14)	8	ECTSCMD	SUBCOMMAND NAME
28	.1.	· · · · · · · · · · · · · · · · · · ·	ECTSWS ECTNOPD ECTATRM ECTLOGF ECTNMAL ECTNNOT	4 BYTES OF SWITCHES 0 BIT ON= NO OPERANDS EXIST IN CMD BUFFER RESERVED CP TERMINATED BY TMP DETACH W/ STAE LOGON/OFF REQUESTED TMP TO LOGOFF USER NO USER MSGS TO RECVED AT LOGON NO BRDCST NOTICES TO BE RECVED AT LOGON
29	(1D)	3	ECTDDNUM	COUNTER FOR GENERATING TEMP DDNAMES
32	(20)	4	ECTUSER	WORD RESERVED FOR INSTALLATION USE
36	(24)	4		RESERVED

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ <u>EQU</u> VALUE	NAME	OFFSETS/ EQU VALUE
	36 (24)				
ECTATRM	28 X'20'				
ECTDDNUM	29 (1D)				
ECTIOWA	4 (4)				
ECTLOGF	28 X'10'				
ECTMSGF	8 (8)				
ECTNMAL	28 X'08'				
ECTNNOT	28 X'04'				
ECTNOPD	28 X'80'				
ECTPCMD	12 (C)				
ECTRCDF	0 (0)				
ECTRTCD	1 (1)				
ECTSCMD	20 (14)				
ECTSMSG	9 (9)				
ECTSWS	28 (1C)				
ECTUSER	32 (20)				
		EN	ID OF ECT		

Protected Step Control Block

The protected step control block (PSCB) is constructed by logon routines and is filled in from the user attribute data set (UADS). A fixed-length table with attribute and accounting information, the PSCB maintains user attributes and accounting data on a user id basis. The address of the PSCB, found in the JSCBPSCB field of the job step control block, is passed to the TMP.

OF	SET	LENGT	H NAME	DESCRIPTION
0	(0)	7	PSCBUSER	USERID PADDED RIGHT WITH BLANKS
7	(7)	1	PSCBUSRL	LENGTH OF USERID
8	(8)	8	PSCBGPNM	GROUP NAME INIT BY LOGON FROM UADS USED BY DYN ALLOC WHEN UNITNAME NOT SPECIFIED BUT IS REQUIRED
16	1 .1. 1		PSCBATR1 PSCBCTRL PSCBACCT PSCBJCL	A 15 BIT STRING OF USER ATTRIBUTES OPERATOR COMMAND USER ACCOUNT COMMAND USER SUBMIT COMMAND USER RESERVED
17	(11)	1		RESERVED
18	(12)	1	PSCBATR2	RESERVED FOR INSTALLATION USE
19	(13)	1		RESERVED FOR INSTALLATION USE
20	(14)	4	PSCBCPU	CUMULATIVE CPU TIME USED DURING SESSION
24	(18)	4	PSCBSWP	CUMULATIVE TIME RESIDENT IN THE REGION
28	(1C)	4	PSCBLTIM	ACTUAL LOGON TIME OF DAY
32	(20)	4	PSCBTCPU	TOTAL CPU TIME USED IN THIS ACCOUNTING PERIOD, EXCLUDING THE CURRENT SESSION.
36	(24)	4	PSCBTSWP	TOTAL TIME USER IS RESIDENT IN THE REGION DURING THIS ACCT. PER., EXCL. THE CURR. SES
40	(28)	4	PSCBTCON	TOTAL TIME USER IS CONNECTED DURING THIS ACCT. PERIOD, EXCLUDING THIS CURR. SES
44	(2C)	4	PSCBTCO1	TOTAL TIME USER TERMINAL IS CONNECTED DURING THIS CURRENT SESSION
48	(30)	4	PSCBRLGB	PTR TO RELOGON BUFFER
52	(34)	4	PSCBUPT	PTR TO USER PROFILE TABLE
56	(38)	2	PSCBUPTL	LENGTH OF UPT
58	(3A)	1		RESERVED
60	(3C)	4	PSCBRSZ	REGION SIZE REQUESTED IN 2K UNITS
64	(40)	8	PSCBU .	RESERVED FOR INSTALLATION USE

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
PSCBACCT PSCBATR1 PSCBATR2 PSCBCPU PSCBCTRL PSCBGPNM PSCBJCL PSCBLTIM PSCBLTIM PSCBRLGB PSCBRSZ PSCBSWP PSCBTCON PSCBTCO1 PSCBTCPU PSCBTCPU PSCBTCPU PSCBUPT PSCBUPT PSCBUPTL PSCBUSER PSCBUSER	17 (11) 19 (13) 58 (3A) 16 X'40' 16 (10) 18 (12) 20 (14) 16 X'80' 8 (8) 16 X'20' 28 (1C) 48 (30) 60 (3C) 24 (18) 40 (28) 44 (2C) 32 (20) 36 (24) 64 (40) 52 (34) 56 (38) 0 (0) 7 (7)		EQU VALUE		EQU VALUE
	. (, ,	EN	D OF PSCB		

Time Sharing Job Block

The time-sharing job block (TJB) contains information about the status of a time-sharing job. The information must be retained in storage while a user is swapped out. TJBs are obtained during time-sharing initialization and reside in the time-sharing control task region. Status information about terminals is contained in the terminal status block (TSB). The address of the TSB is at offset 0 in the TJB.

<u>OF</u>	FSET	LENGT	H NAME	DESCRIPTION
0	(0)	4	TJBTSB	ADDR OF TSB FOR THIS JOB; IF 0,STARTED BY OPERATOR
4	(4)	1	TJBATTN	NUMBER OF UNPROCESSED ATTNS FOR THIS JOB
5	(5)	1	TJBSTAX	NUMBER OF STAX EXITS YET UNSCHEDULED
6	1 .1	1	TJBSTAT TJBNJB TJBINCOR TJBLOGON	STATUS FLAGS NO JOB, THIS TJB IS CURRENTLY UNUSED USER IN CORE LOGON START, SET BY TIOC AT DIAL-UP, TSC
	• • • •	1	TJBOWAIT TJBSILF	RESET INPUT WAIT, TERMINAL JOB IS IN INPUT WAIT OUTPUT WAIT, TERMINAL JOB IS IN OUTPUT WAIT SYSTEM INITIATED LOGOFF DISCONNECT SET TO REQUEST TIOC TO DISCON LINE SYSTEM INITIATED LOGOFF
7		1		STATUS FLAGS
1	1 .1		TJBHUNG TJBHOLD TJBOCAB	HUNG UP USER IS IN OWAIT DUE TO HOLD OPTIONS TSO FAILURE RESULTING IN OUT-OF-CORE ABEND USER CANNOT BE LOGGED ON BECAUSE MACHINE CHECK IN REGION OR NO REGION LARGE ENOUGH
		.1		QUIESCE STARTED FOR USER USER READY TO RUN INDICATE ABEND RECURSION TO IKJEAT07
8	(8)	4	TJBEXTNT	POINTER TO TJB IN SWAPPED OUT JOB IMAGE
12	(C)	4	TJBRCB	POINTER TO RCB FOR THIS REGION
16	(10)	4		RESERVED
20	(14)	4	TJBSPCT	POINTER TO USER SPCT
24	(18)	2		OFFSET IN TT MAP OF TT MAP Q FOR THIS USER
26	.1	1	TJBRSTOR TJBOWP TJBIWP TJBLOGP	RESTORE FLAGS, TESTED BY RCT RESTORE POST OUTPUT WAIT, SET BY TIOC, ENDS AN OWAIT POST INPUT WAIT, SET BY TIOC, ENDS AN IWAIT RESERVED POST LOGON, POST ECB WAITED ON BY LOGON
			TJBLWAIT	IMAGE USER IN LONG WAIT,SWAP OUT IF NOT MADE
		1	TJBDDRD	READY BY RESTORE PROCESSING WHEN ON RESTORE WILL RESET DDR NON
		1.	TJBFAT TJBDDRND	DISPATCHABILITY BIT AN ATTN EXIT IS REQ FOR THIS USER INDICATES TO RESTORE TO SET TCB NON DISPATCHABILE WHEN JOB SWAPPED IN
27	(1B)	1		RESERVED
28	(1C)	8	TJBUSER	USERID OF THIS JOB OWNER, PADDED RT WITH BLANKS
36	(24)	4	TJBIPPB	IPPB CHAIN OF ECB'S TO BE POSTED BY RESTORE
40	(28)	1	TJBNEWID	RGN ID INTO WHICH THIS USER SHOULD BE LOGGED ON. 0 IF SELECTED BY DRIVER
41	(29)	1	TJBFLUSL	STAX LEV OF LAST STAX ISSUED WITH NOPURGE OPTION
42	(2A)	2	TJBTJID	TERMINAL JOB ID
44		1	TJBMONI TJBMDSN	MONITOR CMD INDICATING INFO REQUESTED DSNAMES

OFF	SET	LENGTH	NAME	DESCRIPTION
	1	· · · · · · · · · · · · · · · · · · ·	TJBMSTA	JOBNAMES SESSION SPACE STATUS THIS BIT INDICATES TPUT SHOULD ATTEMPT TO GET ADDITIONAL BUFFERS FOR USER BEFORE GOING INTO A WAIT STATE
45	,		TJBSTAT3 TJBDISC2	STATUS FLAGS INDICATES TO IKJEATO3 WE ARE DISCONNECTING THIS TJB AND NEXT TIME THRU IF THIS BIT IS ON DO NOT DECREMENT RCB USE COUNT
			TJBLOGTM	INDICATES TO LOGON THAT TERMINATION IS REQUESTED
	• • •	1	TJBOCPR	PREVENTS IKJVAT07 RECURSION
46	(2E)	2	TJBLINE	CONTAINS BINARY REP OF THE UNIT ADDRESS OF THE LINE BEING USED.
48	(30)	4	TJBEND	

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
TJBATTN TJBDDRD TJBDDRND TJBDEAD TJBDISC TJBDISC2 TJBEND TJBEXTNT TJBFAT TJBFLUSL TJBGETBF TJBHOLD TJBHUNG TJBINCOR TJBIPB TJBIWP TJBLINE TJBOCPR TJBLOGP TJBLOGP TJBLOGP TJBLOGP TJBLOGP TJBLOGP TJBLOGP TJBLOGP TJBLOGP TJBNDSN TJBMDSN TJBMDSN TJBMSES TJBMSPA TJBMSES TJBMSPA TJBMSES TJBMSPA TJBNEWID TJBNJB TJBOCPR TJBNOWAIT TJBNOWP TJBOWP	EQU VALUE 16 (10) 24 (18) 27 (1B) 4 (4) 26 X'04' 26 X'01' 7 X'01' 6 X'02' 45 X'80' 48 (30) 8 (8) 26 X'02' 41 (29) 44 X'04' 7 X'40' 7 X'80' 6 X'40' 36 (24) 6 X'10' 26 X'10' 26 X'10' 45 X'20' 26 X'10' 45 X'20' 26 X'10' 44 X'20' 44 X'40' 44 (2C) 44 X'20' 44 X'40' 44 (2C) 44 X'20' 44 X'10' 45 X'20' 46 X'10' 47 X'10' 48 X'10' 49 X'10' 40 (28) 6 X'80' 7 X'20' 41 X'08' 42 X'10' 43 X'10' 44 X'10' 44 X'10' 44 X'10' 45 X'10' 46 X'10' 47 X'10' 48 X'10' 49 X'10' 40 X'10' 41 X'10' 41 X'10' 42 X'10' 43 X'10' 44 X'10' 44 X'10' 44 X'10' 44 X'10' 45 X'10' 46 X'10' 47 X'10' 48 X'10' 49 X'10' 40 X'10' 41 X'10' 41 X'10' 42 X'10' 43 X'10' 44 X'10' 44 X'10' 45 X'10' 46 X'10' 47 X'10' 48 X'10' 49 X'10' 40 X'10' 41 X'10' 41 X'10' 42 X'10' 43 X'10' 44 X'10' 45 X'10' 46 X'10' 47 X'10' 48 X'10' 49 X'10' 40 X'10' 41 X'10' 42 X'10' 43 X'10' 44 X'10' 45 X'10' 46 X'10' 47 X'10' 48 X'10' 49 X'10' 40 X'10' 40 X'10' 41 X'10' 42 X'10' 43 X'10' 44 X'10' 44 X'10' 45 X'10' 46 X'10' 47 X'10' 47 X'10' 48 X'10' 49 X'10' 40 X'10' 40 X'10' 41 X'10' 41 X'10' 42 X'10' 43 X'10' 44 X'10' 44 X'10' 45 X'10' 46 X'10' 47 X'10' 47 X'10' 48 X'10' 49 X'10' 40 X'10' 40 X'10' 41 X'10' 41 X'10' 42 X'10' 43 X'10' 44 X'10' 44 X'10' 45 X'10' 46 X'10'	NAME		NAME	
TJBSPCT TJBSTAT TJBSTAT2 TJBSTAT3 TJBSTAX TJBTJID TJBTSB TJBUSER	20 (14) 6 (6) 7 (7) 45 (2D) 5 (5) 42 (2A) 0 (0) 28 (1C)				
TJBUSERR	7 X'02'	T71	ID OF MID		

Time Sharing Job Block Extension

The time-sharing job block extension (TJBX) is a noncontiguous extension of the TJB. It contains additional information about a time-sharing job's status. The address of the TJBX is located in the TJBEXTNT field of the time sharing job block.

OFFSET		LENGTH NAME		DESCRIPTION			
0	(0)	4	TJBXFST	ADDR LOGON TCB WHICH IS FIRST IN USER READY QUEUE			
4	(4)	4	TJBXLAST	ADDR LAST TCB IN USER READY QUEUE			
8	(8)	4	TJBXDSE	ADDR OF DSE USED BY TSO'S DYN ALLOC			
12	(C)	4	TJBXSQE	POINTER TO SQE CHAIN FOR QUIESCED USER			
16	(10)	4	TJBXRQE	ADDR FIRST RQE PURGED FROM ASYNCHRONOUS EXIT QUEUE			
20	(14)	4	TJBXIQE	ADDR FIRST IQE PURGED FROM ASYNCHRONOUS EXIT QUEUE			
24	(18)	4	TJBXTAXE	QUEUE OF TAXE'S USED TO SCHEDULE ATTENTION EXITS			
28	(1C)	4	TJBXLECB	LOGON ECB POSTED BY RCT			
32	(20)	8	TJBXPSWD	USERS LOGON PASSWORD-IF BLANK-NOT REQUIRED			
40	(28)	4	TJBXATTR	PTR TO CHAIN OF ATRCB'S			
44	(2C)	4	TJBXAIQE	ADDR ATTN IQE CURRENTLY BEING PROCESSED			
48	(30)	4	TJBXQPL	ADDR QUIESCE PARM LIST			
52	(34)	2	TJBXNQPE	NUMBER ENTRIES IN QPL			
54	(36)	2	TJBXNTCB	NUMBER TCBS ACTIVE IN USER JOB STEP			
56	(38)	2	TJBXLQPL	LENGTH QPL			
58	(3A)	1	TJBXHBFL	CUR VAL OF LAST HOLDBUF LEVEL. USED BY STAX SVC ROUTINE			
59	(3B)	1		RESERVED			
60	(3C)	4	TJBXACT	TTR OF ACT ON SYSJOBQE			
64	(40)	4	TJBXAECB	POINTER TO LOGON/LOGOFF ECB UNTIL LOGON PROCESSING THEN TO CSCB CANCEL ECB AFTER CSCB IS CREATED			

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	59 (3B)				
TJBXACT	60 (3C)				
TJBXAECB	64 (40)				
TJBXAIQE	44 (2C)				
TJBXATTR	40 (28)				
TJBXDSE	8 (8)				
TJBXFST	0 (0)				
TJBXHBFL	58 (3A)				
TJBXIQE	20 (14)				
TJBXLAST	4 (4)				
TJBXLECB	28 (1C)				
TJBXLQ P L	56 (38)				
TJBXNQPE	52 (34)				
TJBXNTCB	54 (36)				
TJBXPSWD	32 (20)				
TJBXQPL	48 (30)				
TJBXRQE	16 (10)				
TJBXSQE	12 (C)				
TJBXTAXE	24 (18)				
		EN	D OF TJBX		

Time Sharing Interface Area

The time-sharing interface area (TSIA) is used for communication between the time-sharing driver and the time-sharing interface program (TSIP).

OFFSET	<u>r</u> <u>r</u>	ENGT	H NAME	DESCRIPTION
	1		TSIASTAT TSIATMS TSIAPRI TSIAMOD	TS SYSTEM STATUS NEW TIME OF DAY REQUESTED REGION OF HIGHEST PRIORITY NOW DESIGNATED BY ID IN REGION NUMBER FIELD TSIARGN MODIFICATION IS REQUIRED TO REGION STATUS. EACH REGION ENTRY MUST BE CHECKED TO
	1		TSIABKL	DETERMINE THE CHANGE STATUS MAKE BACKGROUND TASK LAST
1 ((1)	1	TSIARGN	REGION NO. OF HIGHEST PRTY
2 ((2)	1	TSIACURR	CURRENT DISP PRTY OF TS TASK GROUP
3 ((3)	1	TSIAASGN	ASSIGNED DISP PRTY OF TS TASK GROUP
4 ((4)	4	TSIATOD	TIME OF DAY OF NXT ENTRY TO TS DRIV
		• • • •	TSIARST TSIAQUI TSIARES	REGION STATUS RESERVED QUIESCE-SWAP OUT CURR OCCUPANT RESTORE-SWAPIN SPECIFIED USER RESERVED
9 ((9)	1		RESERVED
10 ((A)	2	TSIATJD	TERM JOB ID ASSOC WITH REQUEST

NAME	OFFSETS/	NAME	OFFSETS/	NAME	OFFSETS/
	EQU VALUE		EQU VALUE		EQU VALUE
	9 (9)				
TSIAASGN	3 (3)				
TSIABKL	0 X'10'				
TSIACURR	2 (2)				
TSIAMOD	0 X'20'				
TSIAPRI	0 X'40'				
TSIAQUI	8 X'40'				
TSIARES	8 X'20'				
TSIARGN	1 (1)				
TSIARST	8 (8)				
TSIASTAT	0 (0)				
TSIATJD	10 (A)				
TSIATMS	0 X'80'				
TSIATOD	4 (4)				
		EN	ID OF TSIA		

Time Sharing Communication Vector Table

The time-sharing communication vector table (TSCVT) is a secondary CVT pointed to from CVTTSCVT (offset 22) in the CVT. The TSCVT resides in the time-sharing control region; therefore, it exists only while the time-sharing region is active. When time-sharing has not been chosen at system generation, the CVT pointer to the TSCVT is zero.

OFF	SET	LENGTI	H NAME	DESCRIPTION
0	(0)	4	TSCVTTJB	POINTER TO TJB TABLE
4	(4)	4	TSCVTRCB	POINTER TO RCB TABLE
8	(8)	4	TSCVTRPT	PTR TO REFERENCE POINTER TABLE
12	(C)	1	TSCVTFLG	FLAGS TO INDICATE FUNCT REQUESTED OF TSC
13	(D)	1		
		1	TSCSWPBG TSCLOGON TSCDISC TSCVTTHR	SWAP SHOULD BE STARTED A LOGON IS TO BE PROCESSED A DISCONNECT IS TO BE PROCESSED SYSTEM IS THRASHING
14	(E)	1	TSCVTFL1	FLAGS TO INDICATE FUNCT REQUESTED OF TSC
15	.1	1	TSCSSTOP TSCRSTOP TSCASTOP	SYSTEM STOP REQUESTED AND TSC IS STOPPING REGION STOP REQUESTED ABEND-STOP TS FLG. SET BY TSO/RMS IF TCAM MCH'S SET BY TCAM STAE EXIT IF TCAM ABENDS RMS/MCH INTERFACE HAS STOPPED TSC
16	(10)	4		ADDRESS OF ENTRY POINT - IKJVAI04
20	(14)	2	TSCVTCUS	CURR NO. OF USERS LOGGED ON TSO
22	(16)	2	TSCVTLUS	CURRENT LIMIT NO. OF USERS LOGGED ON TO TSO
	(10)	-	10071200	SET BY START AND MODIFY COMMANDS
24	(18)	2	TSCVTNTJ	NO.TJB-TSB'S ALLOC BY TSO INITIALLY
26	(1A)	2	TSCVTSZU	SIZE OF TJB
28	(1C)	2	TSCVTCTR	NO. OF RCB'S ALLOC BY TSO INITIALLY
30	(1E)	2	TSCVTMUS	MAX NUMBER OF USERS LOGGED ON TO TSO SET BY START TSO COMMAND (TERMAX KEYWORD)
32	(20)	4	TSCVTSAV	PTR TO SAV AREA FOR TSC, TSIP&TS DISP
36	(24)	4	TSCVTECB	PTR TO TSECBTAB CTL BLK OF ECB'S
40	(28)	4	TSCVTSIA	PTR TO TSIA
44	(2C)	4	TSCVTICB	PTR TO TSICB
48	(30)	4	TSCVTI01	ADDRESS OF ENTRY POINT IKJVAI01 TSIP BR ENTRY
52	(34)	4	TSCVTTQE	PTR TO TQE FOR TSO'S TIME SLICING
56	(38)	4	TSCVTI02	ADDRESS OF ENTRY POINT IKJVAIO2 IN TS DISPATCH
60	(3C)	4	TSCVTI03	ADDRESS OF ENTRY POINT IKJVAIO3 IN TS DISPATCH
64	(40)	4	TSCVTD02	ADDRESS OF ENTRY POINT IKJEADO2 IN TS DRIVER
68	(44)	4	TSCVTLCQ	ADDR OF TOP ELEM ON LOGON COMM. QUEUE
72	(48)	4	TSCVTTRB	ADDR OF TRACE CTL BLK CHAIN
76	(4C)	4	TSCVTLPA	ADDR OF 1ST CDE IN TS LINK PACK AREA
80	(50)	4	TSCVTSLF	ADDR OF SYSTEM INITIATED LOGOFF - IKJEALOO
84	(54)	4	TSCVTTSC	ADDR OF THE TSC TASK'S TCB. (TSC)
88	(58)	4	TSCVTSPL	ADDRESS OF START PARAMETER LIST
92	(5C)	2	TSCVTRSZ	MIN REGION SIZE FOR LOGON - SET TO ZERO
94	(5E)	2		RESERVED

OFF	SET	LENGT	H NAME	DESCRIPTION
96	(60)	4	TSCVTSVT	SVCTBL ENTRY FOR TSIP PRIOR TO START TS
100	(64)	4	TSCVTSVQ	SVCTBL ENTRY FOR QTIP PRIOR TO START TS
104	(68)	4	TSCVTABN	ADDR OF OUT-OF-CORE ABEND RTN(IKJVAT07)
108	(6C)	4	TSCVTD03	ADDR OF EP IKJEADO3 IN TS DRIVER
112	(70)	4	TSCVTFLM	ADDRESS OF ENTRY POINT - IKJEFLM
116	(74)	4	TSCVTQTP	ADDRESS OF ENTRY FOR QTIP SVC - IKJGGQT1
120	(78)	4	TSCVTT08	ENTRY POINT ADDRESS OF IKJVAT08
124	(7C)	4	TSCVTDMP	ADDRESS OF TSO DUMP CONTROL BLOCK-IKJTSDMP
128	(80)	4	TSCVTT06	ADDRESS OF TCB FOR IKJVAT06
132	(84)	4	TSCVTLS3	ADDRSS OF LOGON OUT OF CORE ABEND RTN
136	(88)	4	TSCVTSMI	ADDRESS OF SMITDSN CONTROL BLOCK
140	(8C)	4	TSCVTMSG	BRANCH ENTRY POINT FOR IKJVAMSG
144	(90)	4	TSCVTSCN	BRANCH ENTRY POINT FOR IKJVASCN
148	(94)	4	TSCVTR01	ADDRESS OF ENTRY POINT - IKJVAR01

NAME	OFFSETS/	NAME	OFFSETS/	NAME	OFFSETS/
	EQU VALUE		EQU VALUE		EQU VALUE
TSCASTOP TSCDISC TSCLOGON TSCRSTOP TSCSSTOP TSCSSTOP TSCSWPBG TSCYTCUS TSCVTCUS TSCVTCUS TSCVTDO2 TSCVTDO2 TSCVTDO3 TSCVTECB TSCVTFLM TSCVTFLM TSCVTFLM TSCVTFL1 TSCVTFL01 TSCVTFL02 TSCVTIO1 TSCVTIO2 TSCVTIO2 TSCVTIO3 TSCVTIUS TSCVTLUS TSCVTLUS TSCVTLUS TSCVTLUS TSCVTNUS TSCVTNUS TSCVTRPT	<u>.</u>	NAME	•	NAME	•
TSCVTLCQ	68 (44)				
	· · · · ·				
TSCVTRPT	92 (5C)				
TSCVTR01	148 (94)				
TSCVTSAV	32 (20)				
TSCVTSCN	144 (90)				
TSCVTSIA	40 (28)				
TSCVTSLF	80 (50)				
TSCVTSMI	136 (88)				
TSCVTSPL TSCVTSVQ	88 (58) 100 (64)				
TSCVTSVT	96 (60)				
TSCVTSZU	26 (1A)				
TSCVTTHR	13 X'08'				
TSCVTTJB	0 (0)				
TSCVTTQE	52 (34)				
TSCVTTRB	72 (48)				
TSCVTTSC TSCVTT06	84 (54) 128 (80)				
TSCVTT08	120 (78)				
100.1100	, , , ,	ENI) OF TECTIT		

User Profile Table

The user profile table (UPT) is built by the logon/logoff scheduler from information stored in the user attribute data set (UADS) and from the LOGON command. It resides in storage shared by the terminal monitor program and the logon/logoff scheduler. It contains information about the terminal user which can be updated by the PROFILE command processor. The information is used by the command processors and service routines.

OFF	SET	LENGT	H NAME	DESCRIPTION
0	(0)	2		RESERVED
2	(2)	10	UPTUSER	RESERVED FOR INSTALLATION USE
12	.1.	1 	UPTNCOM UPTPAUS	USERS ENVIRONMENT SWITCHES RESERVED NO PROMPTING IS TO BE DONE PRINT MESSAGE IDENTIFIERS NO USER COMMUNICATION ALLOWED VIA SEND COMMAND PAUSE FOR '?' WHEN IN NON-INTERACTIVE MODE ATTN HAS BEEN SPECIFIED AS LINE DELETE CHAR
13	(D)	1	UPTCDEL	CHAR DELETE CHARACTER
14	(E)	1	UPTLDEL	LINE DELETE CHARACTER
15	(F)	1		RESERVED

NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE	NAME	OFFSETS/ EQU VALUE
	0 (0)				
	15 (F)				
UPTALD	12 X ' 04'				
UPTCDEL	13 (D)				
UPTLDEL	14 (E)				
UPTMID	12 X'20'				
UPTNCOM	12 X'10'				
UPTNPRM	12 X'40'				
UPTPAUS	12 X'08'				
UPTSWS	12 (C)				
UPTUSER	2 (2)				
		F	END OF UPT		

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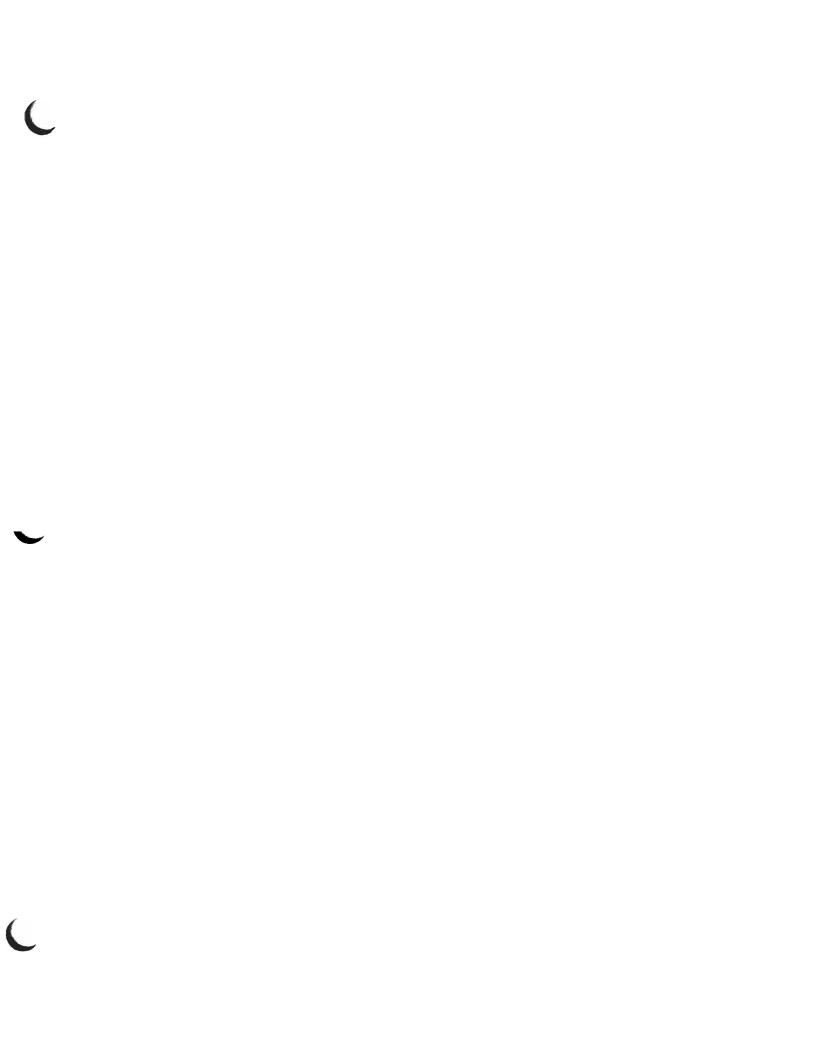
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