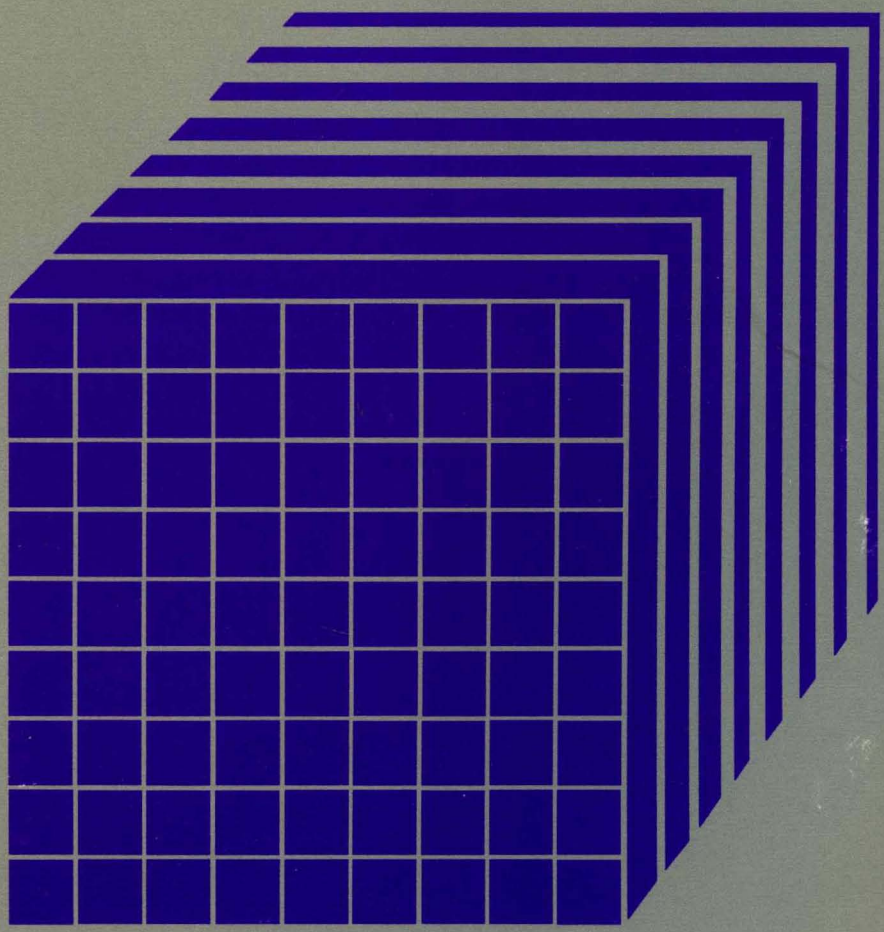
IBM

Virtual Machine/ System Product

Data Areas and Control Block Logic Volume 2 (CMS)

Release 5

LY24-5221-2



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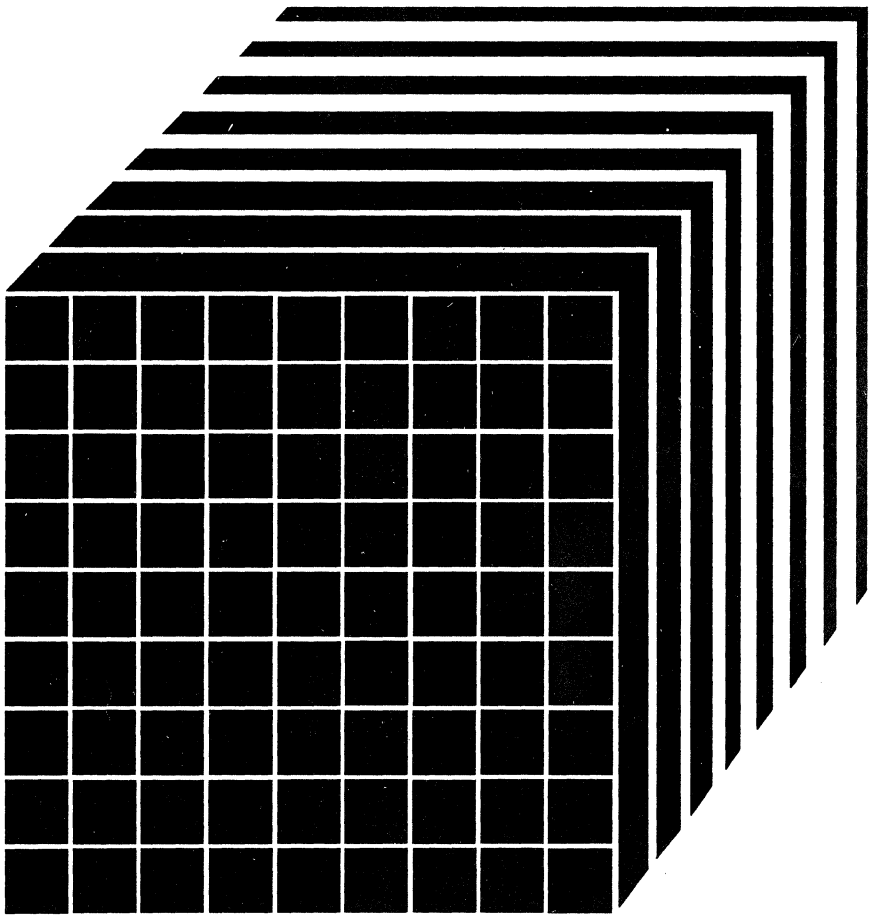

Third Edition (December 1986)

This edition LY24-5221-2, is a major revision of LY24-5221-1, and applies to Release 5 of the Virtual Machine/System Product (5664-167) and to all subsequent releases (if any) of this product until otherwise indicated in new editions or technical newsletters. Changes are made periodically to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest IBM System/370, 30xx, and 4300 Processors Bibliography GC20-0001, for the editions that are applicable and current

Summary of changes

For a list of changes, see page 287.

For Release 5, technical changes and additions to text or illustrations are indicated by a vertical bar to the left of the change.

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This publication, together with the VM/SP System Logic and Problem Determination Guide, Volumes 1 and 2, is intended for use by system programmers responsible for updating VM/SP.

HOW THIS MANUAL IS ORGANIZED

This manual is one of two volumes:

- Volume 1 - Control Program (CP)
- Volume 2 - Conversational Monitor System (CMS)

This volume contains descriptions of the major data areas and control blocks used by the Conversational Monitor System (CMS). there is only one section with two appendixes, as follows:

- "CMS Data Areas and Control Blocks" contains information about CMS data areas and control blocks.
- "Appendix A. CMS Equate Symbols" contains assembler language equate symbols used by CMS to reference data.
- "Appendix B. CMS Data Areas and Control Block References" contains information on the modules that reference data areas and control blocks.

Each data area and control block included in this book is described at the beginning of the block. The descriptive statement is followed by a graphic representation of the arrangement of the fields. After the graphic representation, the fields are described as follows:

- the hexadecimal displacement
- the name of the field
- its length (decimal)
- some use a key (This key is used in the graphic if the name (up to 8 letters) does not fit in the allocated space.)
- a brief description.

The cross reference lists the fields in alphabetical order. When a field equates with a value greater than X'FF', the '**' symbol is used. Refer to the field description for the correct value.

OTHER VM/SP DATA AREAS AND CONTROL BLOCKS

Some data areas and control blocks that affect VM/SP service and support programs are not included in this publication. Information on these data areas and control blocks can be found in the Virtual Machine/System Product: Service Routines Program Logic, LY20-0890.

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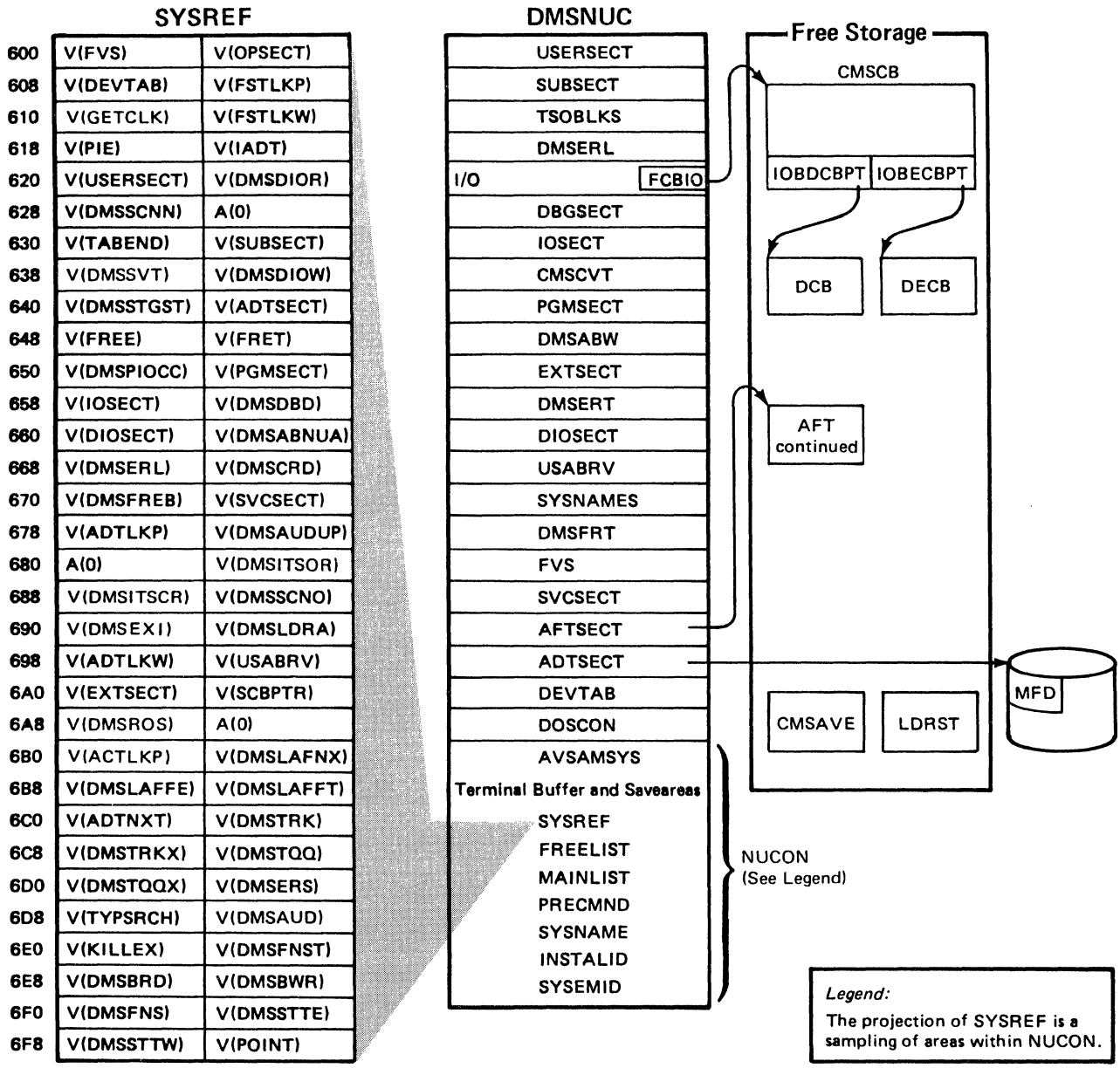
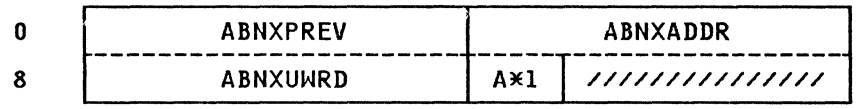
This volume contains descriptions of the CMS data areas and control blocks. The figure below shows how the control blocks interrelate.



ABNXTCB: ABEND EXIT CONTROL BLOCK

This block is created whenever a user establishes an abend exit; it contains information about the abend. ABNXTCB is invoked by the ABNXTCB macro.



SIZE

BLOCK LENGTH (DOUBLE WORD) (ABNXTCBL) 02

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	ABNXPREV	4		ADDRESS OF PREVIOUS BLOCK
4	ABNXADDR	4		EXIT ROUTINE ADDRESS
8	ABNXUWRD	4		USER WORD ADDRESS
C	ABNXFLAG	1	A*1	
	Values Defined in ABNXFLAG			
80	ABNXDRVN			EXIT DRIVEN FLAG
D		3		RESERVED FOR IBM USE

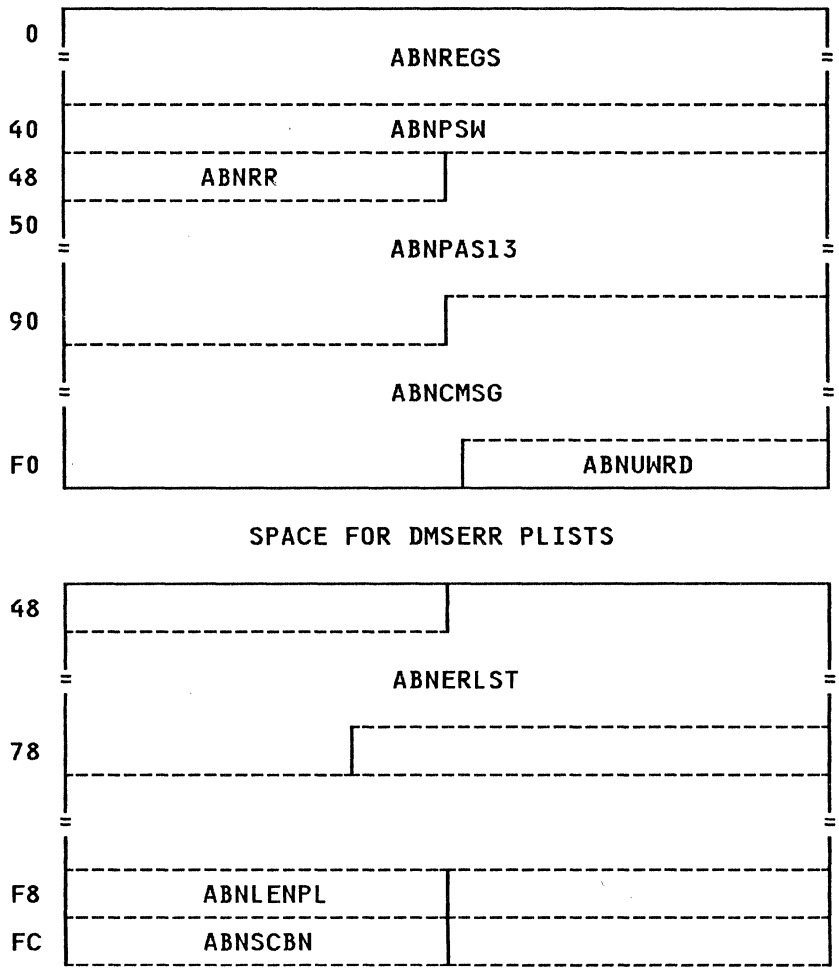
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
ABNXADDR 0004 ..    ABNXFLAG 000C ..    ABNXPREV 0000 ..    ABNXTCBL 0000 02
ABNXDRVN 000C 80                                            ABNXUWRD 0008 ..
```

ABWSECT: ABEND RECOVERY WORKSPACE

ABWSECT describes the fields used for saving registers and other data during abend recovery. V-constants in DMSABN, DMSDBG, DMSFRE, DMSITI, DMSITP, and DMSITS point to the ABWSECT block. ABWSECT is defined in CSECT DMSABW in module DMSNUC.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	ABNREGS	64		REGISTERS AT TIME OF ABEND
40	ABNPSW	8		PSW AT TIME OF ABEND
48	ABNRR	4		TEMPORARY SAVEAREA
4C	ABNPAS13	72		AREA PASSED TO NUCLEUS ROUTINES

DISP	NAME	LEN	KEY	DESCRIPTION
94	ABNCMSG	96		CONSOLE MESSAGE SAVE AREA FOR IPCS
F4	ABNUWRD	4		ABEND EXIT USER WORD
SPACE FOR DMSERR PLISTS				
4C	ABNERLST	47		
F8	ABNLENPL	4		LENGTH OF THE TOKENIZED PLIST USED BY DMSABN AND DMSINT
FC	ABNSCBN	8		USED TO SAVE A NUCLEUS EXTENSION NAME TEMPORARILY

CROSS REFERENCE (Name Disp Value)

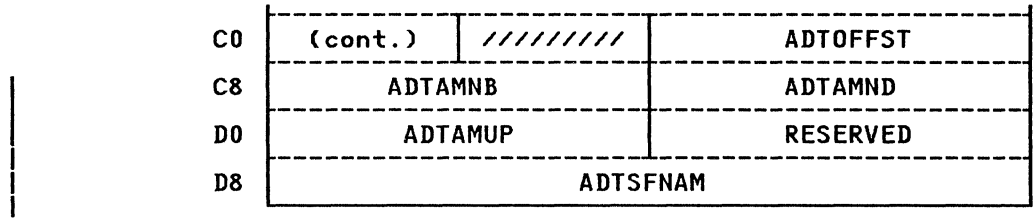
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

ABNCMSG	0094 ..	ABNPAS13	004C ..	ABNREGS	0000 ..	ABNSCBN	00FC ..
ABNERLST	004C ..	ABNPSW	0040 ..	ABNRR	0048 ..	ABNUWRD	00F4 ..
ABNLENPL	00F8 ..						

ADTSECT: ACTIVE DISK TABLE

ADTSECT describes the attributes of virtual disks (A-Z) accessed by a virtual machine via the ACCESS command. Space is allocated for the ADT when DMSNUC is assembled. In the ADT, certain fields are defined for use by both CMS and OS. For example, ADTHBCT field at displacement 1C (hexadecimal) into ADTSECT is also defined as OSADTVTA for use by OS simulation routines. ADTSECT is invoked by the ADT macro.

0	ADTPTR	ADTBWPTR
8	ADTDTA	ADTFDA
10	ADTDFP1	ADTDFP2
18	ADTDFP3	ADTHBCT
20	ADTFSTC	ADTCHBA
28	ADTCFST	ADT1ST
30	ADTBKCYL	OSADTSV1
38	ADTLEFT	ADTLAST
40	//////////////////////	A*1 | A*2 | A*3 | A*4
48	A*5 | A*6 | A*7 | /////	ADTDISKC
50	ADTSECTR	//////////////////////
58	ADTMSK	ADTAMP1
60	ADTAMP2	ADTAMP3
68	ADTDAMAP	ADTLHBA
70	ADTLFST	ADTANACW
78	ADTARES	ADTXNREC
80	ADTXAREC	ADTCHMAP
88	ADTAHTAB	//////////////////////
90	ADTIDENT	ADTID
98	(cont.) | ADTVER	ADTDBSIZ
A0	ADTDOP	ADTCYL
A8	ADTMCYL	ADTNUM
B0	ADTUSED	ADTFSTSZ
B8	ADTNFST	ADTDCRED



SIZE

LENGTH OF FULL ADT BLOCK (BYTES) (ADTLB) E0
LENGTH OF THE LABEL PORTION (ADTLABSZ) 50
LOGICAL RECORD LENGTH (ADTRL) 320
LENGTH OF MINIMUM ADT BLOCK (BYTES) IN DOUBLEWORDS (ADTLBM) 58
LENGTH OF FULL ADT BLOCK (ADTLD) 1C
LENGTH OF MINIMUM ADT BLOCK (ADTLDM) 0B
MAXIMUM BIT MAP LENGTH (ADTMXBML) 0A

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	ADTPTR	4		POINTER TO NEXT ADT BLOCK IN CHAIN
4	ADTBWPTR	4		ADDRESS OF PREVIOUS ADT (BW CHAIN)
8	ADTDTA	4		DEVICE TABLE ADDRESS IN NUCON
C	ADTFDA	4		FILE DIRECTORY (PSTAT) ADDRESS
10	ADTDFP1	4		DIRECTORY FILE LEVEL 1 POINTER
14	ADTDFP2	4		DIRECTORY FILE LEVEL 2 POINTER
18	ADTDFP3	4		DIRECTORY FILE LEVEL 3 POINTER
	Values Defined in ADTDFP3			
14	ADTMFDA			ADDRESS OF MFD
10	ADTMFDN			NUMBER OF DOUBLEWORDS IN MFD
1C	ADTHBCT	4		FST HYPERBLOCK COUNT
20	ADTFSTC	4		NUMBER OF FST ENTRIES IN DIRECTORY
24	ADTCHBA	4		ADDRESS OF CURRENT HYPERBLOCK
	Values Defined in ADTCHBA			
24	OSADTFST			ADDRESS FIRST O/S FST
28	ADTCFST	4		DISPLACEMENT OF CURRENT FST ENTRY
	Values Defined in ADTCFST			
28	OSADTVTB			ADDRESS OF UPPER O/S VTOC
2C	ADT1ST	4		FIRST EMPTY RECORD
30	ADTBKCYL	4		BLOCKS PER CYLINDER ON EDF DISK
	Values Defined in ADTBKCYL			
39	OSADTDSK			O/S DISK ADDRESS
34	OSADTSV1	4		O/S SAVE AREA

DISP	NAME	LEN	KEY	DESCRIPTION
38	ADTLEFT	4		NUMBER OF RECORDS LEFT
3C	ADTLAST	4		INDICATOR FOR LAST RECORD
40		4		RESERVED
44	ADTM	1	A*1	MODE LETTER (A,B,C,...,X,Y,Z)
45	ADTMX	1	A*2	EXTENSION-OF-MODE LETTER
46	ADTFLG1	1	A*3	FLAG BYTE 1

Values Defined in ADTFLG1

80	ADTFSF	ADT BLOCK IN FREE STORAGE
40	ADTFRO	CMS READ-ONLY DISK (ATTACH & READY)
20	ADTFRW	CMS READ-WRITE DISK (ATTACH & READY)
10	ADTFFSTF	1ST FST HYPBLK IS IN FREE STORAGE
08	ADTFFSTV	FST HYPBLKS ARE OF VARYING LENGTH
04	ADTFQQF	200-BYTE QQMSK IS IN FREE STORAGE
02	ADTROX	THIS DISK HAS READ ONLY EXTENSION(S)
01	ADTFMIN	ADT BLOCK IS MINIMUM SIZE

47	ADTFLG2	1	A*4	FLAG BYTE 2

Values Defined in ADTFLG2

F8	ADTFALUF	ALL UFD IS IN CORE
80	ADTFMFD	MFD IS IN CORE
40	ADTFALNM	ALL FILENAMES ARE IN CORE
20	ADTFALTY	ALL FILETYPES ARE IN CORE
18	ADTFALMD	ALL MODES (0-5) ARE IN CORE
10	ADTFMDRO	MODES 1-5 ARE IN CORE
04	ADTFROS	INDICATES THIS IS AN OS DISK
02	ADTPSTM	ADT PSTAT CHAIN MODIFIED
01	ADTFDOS	INDICATES THIS IS A DOS DISK

48	ADTFLG3	1	A*5	FLAG BYTE 3

Values Defined in ADTFLG3

80	ADTFUPD1	1ST HALF OF UPDISK CALLED
40	ADTFXCHN	EXTRA CHAIN LINK(S) NEED TO BE RETURNED
20	ADTFRWOS	READ-WRITE OS OR DOS DISK
10	ADTFSORT	ALL FST HYPERBLOCKS AND FST ENTRIES SORTED
08	ADTFORCE	CMS/DOS/OS DISK FORCED READ-ONLY
04	ADTFNOAB	FOR DMSAUD - DON'T ABEND IF DISK ERROR

49	ADTFLG4	1	A*6	FLAG BYTE 4

Values Defined in ADTFLG4

80	ADTEDF	ENHANCED-DISK-FORMAT DISK
40	ADTEDFAE	EDF ACCESS ERASE DONE
20	ADTADDED	ADT ADDED TO ADT CHAIN BY ADTLKP
01	ADTSFSHR	SAVED STORAGE ACCESS

4A	ADTFTYP	1	A*7	FILE TYPE FLAG BYTE
4B		1		RESERVED
4C	ADTDISKC	4		DISK CONSTANTS TABLE IN DMSDIP
4C	ADTFBABF			FBA BLOCK TO CMS BLOCK FACTOR

DISP	NAME	LEN	KEY	DESCRIPTION
50	ADTSECTR	4		SECTOR NUMBER TABLE IN DMSDIP
	Values Defined in ADTDIOB			
50	ADTFBALB			LAST FBA BLOCK OF THE MINIDISK
58	ADT2ND	0		
58	ADTMSK	4		800-BYTE (PQMSK) BIT MASK ADDRESS OR ALLOCATION MAP DATA HBLK CHAIN
5C	ADTAMP1	4		200-BYTE (PQQMSK) BIT-MASK ADDRESS
60	ADTAMP2	4		ALLOCATION MAP LEVEL 2 POINTER
64	ADTAMP3	4		ALLOCATION MAP LEVEL 3 POINTER
68	ADTDAMAP	4		DEALLOCATION MAP HBLK CHAIN
	Values Defined in ADTDAMAP			
5C	ADTQQM			200-BYTE(PQQMSK)
60	ADTPQM1			NUMBER OF NON-MFD MASK BYTES
64	ADTPQM2			NUMBER OF BIT MASK BYTES
68	ADTPQM3			NUMBER OF DWORDS IN PQMSK
6C	ADTLHBA	4		POINTER TO LAST FST HYPER-BLOCK
70	ADTLFST	4		DISPLACEMENT OF LAST FST IN LAST HYPER-BLOCK
74	ADTANACW	4		ALTERNATE NUMBER OF ACTIVE WRITE FILES
	Values Defined in ADTANACW			
76	ADTNACW			NUMBER OF ACTIVE WRITE FILES
78	ADTARES	4		ALTERNATE RESERVE-COUNT
	Values Defined in ADTARES			
74	ADTRES			RESERVE-COUNT (RESRVCNT)
7C	ADTXNREC	4		NUMBER DOUBLEWORDS OF EXTRA CHAIN LINK RECORDS
80	ADTXAREC	4		ADDRESS OF BLOCK OF EXTRA CHAIN LINK RECORDS
84	ADTCHMAP	4		CHANGE MAP HBLK CHAIN
88	ADTAHTAB	4		POINTER TO HYPMAP/HASH TABLE
MAPPING OF VOLUME TABLE				
90	ADTIDENT	4		VOLUME START / LABEL IDENTIFIER
94	ADTID	6		VOLUME START / VOLUME IDENTIFIER
9A	ADTVER	2		VERSION LEVEL
9C	ADTDBSIZ	4		DISK BLOCK SIZE
A0	ADTDOP	4		DISK ORIGIN POINTER
A4	ADTCYL	4		NUMBER OF FORMATTED CYLINDERS ON DISK
A8	ADTMCYL	4		MAXIMUM NUMBER FORMATTED CYLINDERS ON DISK
AC	ADTNUM	4		DISK SIZE IN BLOCKS
B0	ADTUSED	4		NUMBER OF DISK BLOCKS IN USE

DISP	NAME	LEN	KEY	DESCRIPTION
B4	ADTFSTSZ	4		SIZE OF FST
B8	ADTNFST	4		NUMBER OF FST'S PER BLOCK
BC	ADTDCRED	6		DISK CREATION DATE (YYMMDDHHMMSS)
C2		2		RESERVED
C4	ADTOFFST	4		DISK OFFSET WHEN RESERVED
C8	ADTAMNB	4		ALLOC MAP BLOCK WITH NEXT HOLE
CC	ADTAMND	4		DISP INTO HBLK DATA OF NEXT HOLE
D0	ADTAMUP	4		DISP INTO USER PART OF ALLOC MAP
D4		4		RESERVED
D8	ADTSFNAM	8		NAME OF SHARED SEGMENT
50	ADTLABSZ			LENGTH OF THE LABEL PORTION

MAPPING OF OS FIELDS IN VOLUME LABEL

9B	OSADTVTA	VTOC ADDRESS OF O/S PACK
58	ADTLBM	LENGTH OF MINIMUM ADT BLOCK IN BYTES
0B	ADTLDM	LENGTH OF MINIMUM ADT BLOCK IN DOUBLE WORDS
E0	ADTLB	LENGTH OF FULL ADT BLOCK IN BYTES
1C	ADTLD	LENGTH OF FULL ADT BLOCK IN DOUBLE WORDS
320	ADTRL	LOGICAL RECORD LENGTH
DA	ADTMXBML	MAXIMUM BIT MAP LENGTH IN NUMBER OF RECORDS FOR 3330

NUCON DEVICE TABLE OFFSETS

4	DTAS	4	SYMBOLIC DEVICE NAME
3	DTADT	1	DEVICE TYPE BYTE
2	DTADC	1	DEVICE CLASS
0	DTAD	2	DEVICE NUMBER

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

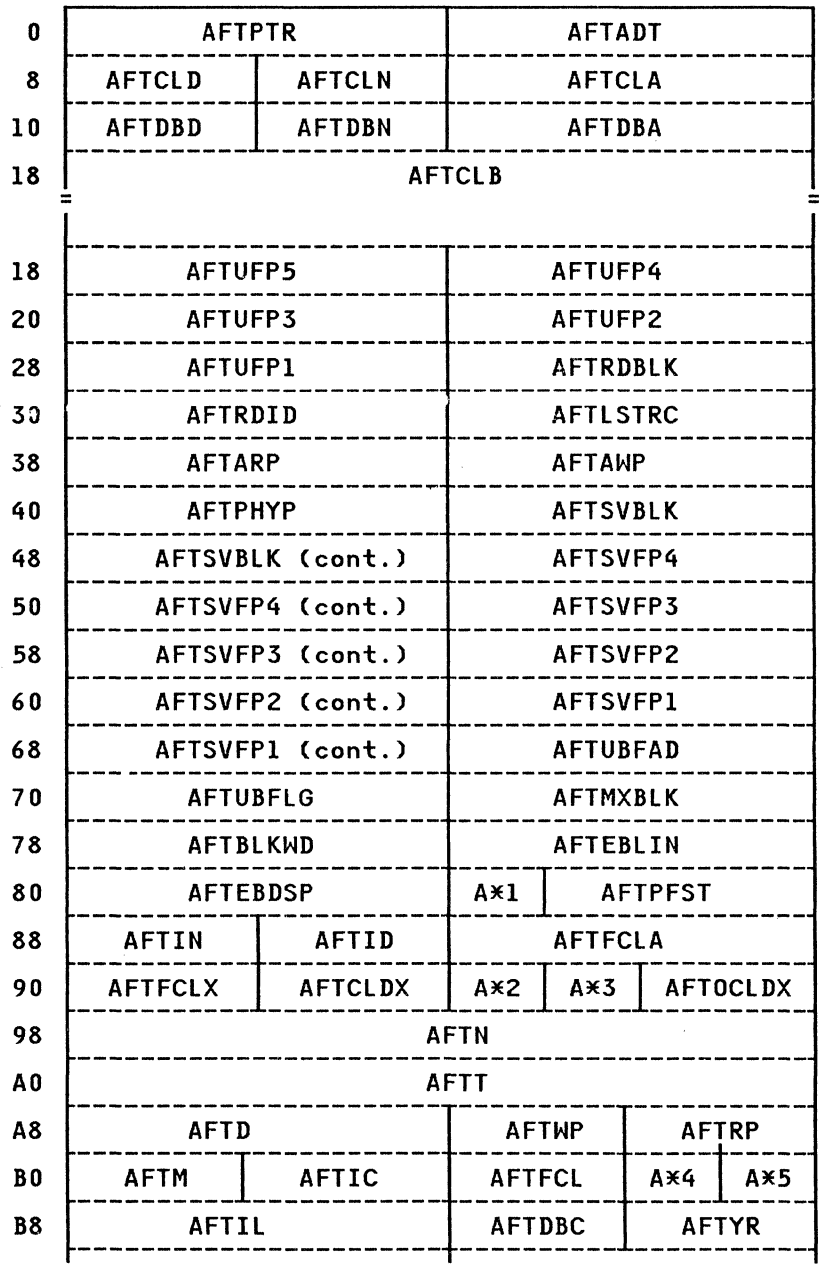
ADTADDED	0049	20	ADTCHMAP	0084	..	ADTFALNM	0047	40	ADTFMFD	0047	80
ADTAHTAB	0088	..	ADTCYL	00A4	..	ADTFALTY	0047	20	ADTFMIN	0046	01
ADTAMNB	00C8	..	ADTDAMAP	0068	..	ADTFALUF	0047	F8	ADTFNOAB	0048	04
ADTAMND	00CC	..	ADTDBSIZ	009C	..	ADTFBABF	004C	4C	ADTFORCE	0048	08
ADTAMP1	005C	..	ADTDCRED	00BC	..	ADTFBALB	0050	50	ADTFQQF	0046	04
ADTAMP2	0060	..	ADTDFP1	0010	..	ADTFDA	000C	..	ADTFRO	0046	40
ADTAMP3	0064	..	ADTDFP2	0014	..	ADTFDOS	0047	01	ADTFROS	0047	04
ADTAMUP	00D0	..	ADTDFP3	0018	..	ADTFFSTF	0046	10	ADTFRW	0046	20
ADTANACW	0074	..	ADTDISKC	004C	..	ADTFFSTV	0046	08	ADTFRWOS	0048	20
ADTARES	0078	..	ADTDOP	00A0	..	ADTFLG1	0046	..	ADTFSF	0046	80
ADTBKCYL	0030	..	ADTDTA	0008	..	ADTFLG2	0047	..	ADTSFSHR	0049	01
ADTBWPTR	0004	..	ADTEDF	0049	80	ADTFLG3	0048	..	ADTFSORT	0048	10
ADTCFST	0028	..	ADTEDFAE	0049	40	ADTFLG4	0049	..	ADTFSTC	0020	..
ADTCHBA	0024	..	ADTFALMD	0047	18	ADTFMDRO	0047	10	ADTFSTSZ	00B4	..

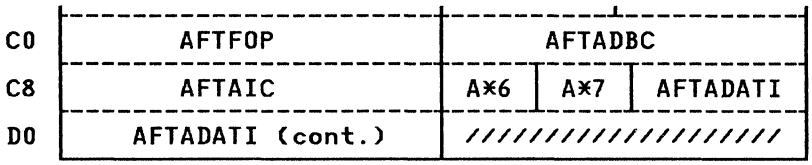
CROSS REFERENCE (Name Disp Value)

ADTFTYP	004A	..	ADTLFST	0070	..	ADTPQM1	0060	60	ADTXAREC	0080	..
ADTFUPD1	0048	80	ADTLHBA	006C	..	ADTPQM2	0064	64	ADTXNREC	007C	..
ADTFXCHN	0048	40	ADTM	0044	..	ADTPQM3	0068	68	ADT1ST	002C	..
ADTHBCT	001C	..	ADTMCYL	00A8	..	ADTPSTM	0047	02	ADT2ND	0058	..
ADTID	0094	..	ADTMFDA	0018	14	ADTPTR	0000	..	DTAD	....	00
ADTIDENT	0090	..	ADTMFDN	....	10	ADTQQM	0068	5C	DTADC	....	02
ADTLABSZ	....	50	ADTMSK	0058	..	ADTRES	0078	7A	DTADT	....	03
ADTLAST	003C	..	ADTMX	0045	..	ADTRL	....	**	DTAS	....	04
ADTLB	....	E0	ADTMXBML	....	0A	ADTROX	0046	02	OSADTDSK	0030	30
ADTLBM	....	58	ADTNACW	0074	76	ADTSECTR	0050	..	OSADTFST	0024	24
ADTLD	....	1C	ADTNFST	00B8	..	ADTSFNAM	00D8	..	OSADTSV1	0034	..
ADTLDM	....	0B	ADTNUM	00AC	..	ADTUSED	00B0	..	OSADTVTA	....	9B
ADTLEFT	0038	..	ADTOFFST	00C4	..	ADTVER	009A	..	OSADTVTB	0028	28

AFTSECT: ACTIVE FILE TABLE

AFTSECT is used to describe a file currently open for a read or write. The AFT is created when a file is opened. Space for up to five AFTs is available in DMSNUC; any other must reside in free storage. AFTSECT is invoked via the AFT macro.





SIZE

LENGTH OF AFT BLOCK IN BYTES (AFTLB) D8
LENGTH OF AFT BLOCK IN DOUBLEWORDS (AFTLD) 1B
LENGTH OF AN EDF FST (AFTL2) 40
LENGTH OF AFT BLOCK (AFTL) 28

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	AFTPTR	4		POINTER TO NEXT AFT BLK IN CHAIN
	Values Defined in AFTPTR			
40	AFTFSF			AFTPTR BIT INDICATES IN FREE STORAGE
4	AFTADT	4		POINTER TO ACTIVE DISK TABLE
8	AFTCLD	2		DISK ADDR OF CURRENT CHAIN LINK
8	AFTCACHE	4		ADDRESS OF CACHE AREA
A	AFTCLN	2		NUMBER OF CURRENT CHAIN LINK
C	AFTCLA	4		CORE ADDRESS OF CHAIN LINK BUFR
10	AFTDBD	2		DISK ADDRESS OF CURRENT DATA BLK
12	AFTDBN	2		NUMBER OF CURRENT DATA BLOCK
14	AFTDBA	4		CORE ADDRESS OF CURRENT DATA BLK
18	AFTCLB	80		CHAIN LINK BUFR FROM 1ST CH.LINK
18	AFTUFP5	4		5TH LEVEL POINTER HBLK CHAIN
1C	AFTUFP4	4		4TH LEVEL POINTER HBLK CHAIN
20	AFTUFP3	4		3RD LEVEL POINTER HBLK CHAIN
24	AFTUFP2	4		2ND LEVEL POINTER HBLK CHAIN
28	AFTUFP1	4		1ST LEVEL POINTER HBLK CHAIN
2C	AFTRDBLK	4		DATA BLOCK CHAIN
30	AFTRDID	4		ITEM DISPLACEMENT IN BLOCK
34	AFTLSTRC	4		LAST RECORD NUMBER PROCESSED
38	AFTARP	4		ALTERNATE READ POINTER
3C	AFTAWP	4		ALTERNATE WRITE POINTER
40	AFTPHYP	4		A(HBLK HOLDING STATIC FST)
44	AFTSVBLK	8		SAVE DATA BLOCK DISP AND NUMBER
4C	AFTSVFP4	8		SAVE PTR4 BLOCK DISP AND NUMBER

DISP	NAME	LEN	KEY	DESCRIPTION
54	AFTSVFP3	8		SAVE PTR3 BLOCK DISP AND NUMBER
5C	AFTSVFP2	8		SAVE PTR2 BLOCK DISP AND NUMBER
64	AFTSVFP1	8		SAVE PTR1 BLOCK DISP AND NUMBER
6C	AFTUBFAD	4		SAVE USER BUFFER ADDRESS
70	AFTUBFLG	4		SAVE USER BUFFER LENGTH
74	AFTMXBLK	4		MAX NUMBER OF ENTRIES IN A PTR BL
78	AFTBLKWD	4		SAVE USER BUFF DISP BLKWR
79	AFTBFORM	1		SAVE REAL FORMAT DURING BLOCK WR.
7A	AFTBPRCT	2		SAVE PREV. RESIDUAL CT FOR V-FORM
7C	AFTEBLIN	4		CURRENT ITEM NUMBER
80	AFTEBDSP	4		CURRENT ITEM DISPLACEMENT
84	AFTFLG	1	A*1	FLAG BYTE

Values Defined in AFTFLG

80	AFTUSED	ACTIVE FILE TABLE BLOCK IN USE
20	AFTICF	FIRST CHAIN LINK IN CORE FLAG
10	AFTFBA	FULL BUFFER ASSIGNED
08	AFTDBF	DATA BLOCK IN CORE FLAG
04	AFTWRT	ACTIVE WRITE
02	AFTRD	ACTIVE READ
01	AFTFULD	FULL-DISK SPECIAL CASE

85	AFTPFST	3		POINTER TO (STATIC) FST-ENTRY
88	AFTIN	2		CURRENT ITEM NUMBER
8A	AFTID	2		DISP.OF CURRENT ITEM IN DATA BLK
8C	AFTFCLA	4		CORE ADDRESS OF FIRST CHAIN LINK
90	AFTFCLX	2		DISK ADDRESS OF SWAPPED FCL
92	AFTCLDX	2		DISK ADDRESS OF SWAPPED CHAIN LINK
94	AFTFLG2	1	A*2	SECOND FLAG-BYTE

Values Defined in AFTFLG2

80	AFTNEW	BRAND NEW FILE
80	AFTOVLAP	LENGTH ACROSS TWO DATA BLOCKS
40	AFTOLDCL	CURRENT CHAIN LINK EXISTED PREVIOUSLY
20	AFTCLX	ALTERNATE CHAIN-LINK ASSIGNED/IMPLIED
10	AFTREAD	FILE IS BEING READ.
08	AFTVLGTH	LENGTH MUST BE HANDLED FOR V-FORM
04	AFTVLREC	WRITING THE LAST V-FORMAT RECORD
02	AFTERR8	ERROR 8 : USER BUFFER LENGTH TOO
01	SAMELEN	FORCE SAME LENGTH UPDATE

95	AFTFLG3	1	A*3	THIRD FLAG BYTE

Values Defined in AFTFLG3

80	AFTNCACH	NON-CACHEINGMODE FOR NON-SEQUENTIAL I/O

96	AFTOCLDX	2		OLD VALUE (IF ANY) OF AFTCLDX

DISP	NAME	LEN	KEY	DESCRIPTION
98	AFTFST	8		COPY OF FST BLOCK IMBEDDED IN AFT BLOCK
FILE STATUS TABLE (FILE DIRECTORY) BLOCK				
98	AFTN	8		FILE NAME
A0	AFTT	8		FILE TYPE
A8	AFTD	4		DATE/TIME LAST WRITTEN
AC	AFTWP	2		WRITE POINTER (ITEM #)
AE	AFTRP	2		READ POINTER (ITEM #)
B0	AFTM	2		FILE MODE
B2	AFTIC	2		ITEM COUNT
B4	AFTFCL	2		FIRST CHAIN LINK
B6	AFTFV	1	A*4	FIXED(F)/VARIABLE(V) FLAG
B7	AFTFB	1	A*5	FLAG BYTE (IF USED)
Values Defined in AFTFB				
(applicable only to "STATEFST" copy of FST-ENTRY after successful "STATE" or "STATEW" call.)				
00	AFTFRO			READ-ONLY DISK
C0	AFTFRWX			READ-ONLY EXTENSION OF READ-ONLY DISK
80	AFTFRW			READ/WRITE DISK
40	AFTFROX			READ-ONLY EXTENSION OF READ/WRITE DISK
07	AFTFACT			FILE "ACTIVE" - ONE OF THE FOLLOWING:
04	AFTFAR			FILE ACTIVE FOR READING
02	AFTFAW			FILE ACTIVE FOR WRITING
01	AFTFAP			FILE ACTIVE FROM A "POINT"
Applicable to FSCBFLG in plist				
40	AFTITAV			ITEM AVAILABLE
20	AFTEPL			EXTENDED PLIST
01	AFTRECAV			PREVIOUS RECORD NULL
B8	AFTIL			(MAXIMUM) ITEM LENGTH
BC	AFTDBC	2		NUMBER OF DATA BLOCKS
BE	AFTYR	2		YEAR
FST EDF EXTENSION				
C0	AFTFOP	4		ALT. FILE ORIGIN POINTER
C4	AFTADBC	4		ALT. NUMBER OF DATA BLOCKS
C8	AFTAIC	4		ALT. ITEM COUNT
CC	AFTNLVL	1	A*6	NUMBER OF POINTER BLOCK LEVELS
CD	AFTPTRSZ	1	A*7	LENGTH OF A POINTER ELEMENT
CE	AFTADATI	6		ALT. DATE/TIME(YY MM DD HH MM SS)
FST HYPER-BLOCK PARAMETERS				
	AFTBKWD			800 BACKWARD PTR (TO PREVIOUS HYPERBLK IN CORE)
	AFTFWDP			804 FORWARD PTR (TO NEXT HYPERBLOCK IN CORE)

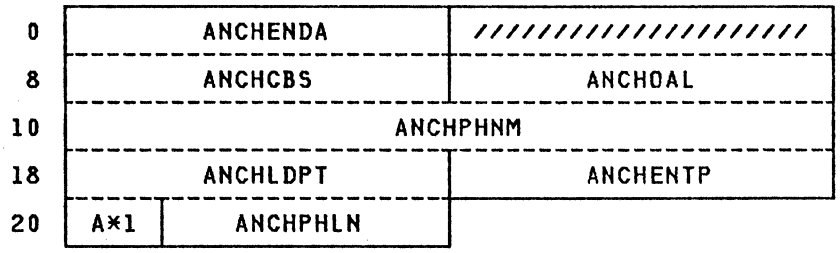
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

AFTADATI	00CE	..	AFTEPL	00B7	20	AFTICF	0084	20	AFTRDID	0030	..
AFTADBC	00C4	..	AFTERR8	0094	02	AFTID	008A	..	AFTREAD	0094	10
AFTADT	0004	..	AFTFACT	00B7	07	AFTIL	00B8	..	AFTRECAV	00B7	01
AFTAIC	00C8	..	AFTFAP	00B7	01	AFTIN	0088	..	AFTRP	00AE	..
AFTARP	0038	..	AFTFAR	00B7	04	AFTITAV	00B7	40	AFTSVBLK	0044	..
AFTAWP	003C	..	AFTFAW	00B7	02	AFTL	....	28	AFTSVFP1	0064	..
AFTBFORM	0079	..	AFTFB	00B7	..	AFTLB	....	D8	AFTSVFP2	005C	..
AFTBKWD	00CE	**	AFTFBA	0084	10	AFTLD	....	BD	AFTSVFP3	0054	..
AFTBLKWD	0078	..	AFTFCL	00B4	..	AFTLSTRC	0034	..	AFTSVFP4	004C	..
AFTBPRCT	007A	..	AFTFCLA	008C	..	AFTL2	....	40	AFTT	00A0	..
AFTCACHE	0008	04	AFTFCLX	0090	..	AFTM	00B0	..	AFTUBFAD	006C	..
AFTCLA	000C	..	AFTFLG	0084	..	AFTMXBLK	0074	..	AFTUBFLG	0070	..
AFTCLB	0018	..	AFTFLG2	0094	..	AFTN	0098	..	AFTUFP1	0028	..
AFTCLD	0008	..	AFTFOP	00C0	..	AFTNEW	0094	80	AFTUFP2	0024	..
AFTCLDX	0092	..	AFTFRO	00B7	00	AFTNLVL	00CC	..	AFTUFP3	0020	..
AFTCLN	000A	..	AFTFROX	00B7	40	AFTOCLDX	0096	..	AFTUFP4	001C	..
AFTCLX	0094	20	AFTFRW	00B7	80	AFTOLDCL	0094	40	AFTUFP5	0018	..
AFTD	00A8	..	AFTFRWX	00B7	C0	AFTOVLAP	0094	80	AFTUSED	0084	80
AFTDBA	0014	..	AFTFSF	0000	40	AFTPFST	0085	..	AFTVLGTH	0094	08
AFTDBC	00BC	..	AFTFST	0098	..	AFTPHYP	0040	..	AFTVLREC	0094	04
AFTDBD	0010	..	AFTFULD	0084	01	AFTPTR	0000	..	AFTWP	00AC	..
AFTDBF	0084	08	AFTFV	00B6	..	AFTPTRSZ	00CD	..	AFTWRT	0084	04
AFTDBN	0012	..	AFTFWDP	00CE	**	AFTRD	0084	02	AFTYR	00BE	..
AFTEBDSP	0080	..	AFTIC	00B2	..	AFTRDBLK	002C	..	SAMELEN	0094	01
AFTEBLIN	007C	..									

ANCHSECT: ANCHOR TABLE

ANCHSECT defines the VSE anchor table. This DSECT is used by DMSDOS when a CDLOAD (SVC 65) is issued, and the specified phase is not found in either the CMSVSAM or CMSAMS segment. In this case, the specified phase is loaded either from a CMS DOSLIB or a VSE core image library, and the name, load point, entry point and the length in bytes, of the phase are saved in an available slot in the anchor table. ANCHSECT is invoked by the ANCHTAB macro.



SIZE

LENGTH OF ONE ANCHOR-TABLE ENTRY (ANCHLENG) 14
DEFAULT SIZE OF ANCHOR TABLE IN BYTES (ANCHSIZ) 1024

HEX DISP	NAME	LEN	KEY	DESCRIPTION
BEGINNING OF AN ANCHOR TABLE				
0	ANCHENDA	4		END ADDRESS OF ANCHOR TABLE
4		4		RESERVED
8	ANCHCBS	4		POINTER TO VSAM "AMCB" TABLE
C	ANCHOAL	4		POINTER TO VSAM "OAL" (OPEN ACB) TABLE
FOLLOWED BY ONE OR MORE ANCHOR-TABLE ENTRIES OF THE FOLLOWING FORMAT:				
10	ANCHPHNM	8		PHASE NAME
18	ANCHLDPT	4		LOAD POINT
1C	ANCHENTP	4		ENTRY POINT
20	ANCHSTSW	1	A*1	STATUS SWITCH
	Values Defined in ANCHSTSW			
7F	ANCHINST			PHASE IS ALREADY IN STORAGE
FF	ANCHRPJL			REQUESTED PHASE JUST LOADED BY ANOTHER TASK (ONLY IF AP=YES)
00	ANCHMLOD			PHASE MUST BE LOADED
21	ANCHPHLN	3		LENGTH OF PHASE IN BYTES

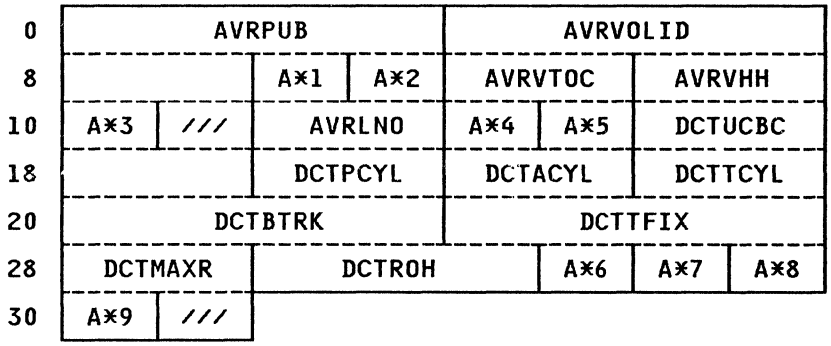
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
ANCHCBS  0008 ..    ANCHLDPT 0018 ..    ANCHOAL  000C ..    ANCHRPJL 0020 FF
ANCHENDA 0000 ..    ANCHLENG .... 14    ANCHPHLN 0021 ..    ANCHSIZ  .... **
ANCHENTP 001C ..    ANCHMLOD 0020 00    ANCHPHNM 0010 ..    ANCHSTSW 0020 ..
ANCHINST 0020 7F
```

AVRADR: VOLUME AND DEVICE CHARACTERISTICS

AVRADR describes the characteristics of volumes and devices in response to a VSE SVC 99 request (GETVCE). AVRADR is invoked by AVRADR copy.



SIZE

DCTADR LENGTH IN BYTES (DCTLEN) 1E
AVRADR LENGTH IN BYTES (AVRLEN) 32

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	AVRVOLC			VOLUME CHARACTERISTICS
0	AVRPUB	4		ADDR OF PUB
4	AVRVOLID	6		VOLUME IDENTIFIER
A	AVRFLAG	1	A*1	MASK OF INVALID FIELDS
	Values Defined in AVRFLAG			
	02 AVRNLNO			AVRLNO INVALID
	01 AVRNVOL			AVRVOLID AND AVRVTOC INVALID
B	AVRTYPE	1	A*2	DEVICE CHARACTERISTICS
	Values Defined in AVRTYPE			
	01 AVRFBA			FB/E DEVICE
	02 AVRCKD			CKD DEVICE
	03 AVRRPS			DEVICE SUPPORTS RPS
C	AVRVTOC	6		VTOC POINTER
C	AVRVCC	2		CKD CYL NO.
E	AVRVHH	2		CKD TRACK NO.
10	AVRVR	1	A*3	CKD RECORD NO.
11		1		RESERVED

DISP	NAME	LEN	KEY	DESCRIPTION
C	AVRVCI	1		FB/E BLKS/CI IN VTOC
D	AVRVNUM	4		FB/E BLOCKNO
12	AVRLNO	2		LOGICAL UNIT NUMBER
14	AVRDEVC			DEVICE CHARACTERISTICS
14	DCTADR		A*4	
14	DCTPUBC	1		PUB CODE
15	DCTDTFC	1	A*5	
16	DCTUCBC	4		VSAM CATALOG CODE
1A	DCTPCYL	2		PRIMARY CYLS/BLKS PER VOLUME
1C	DCTACYL	2		ALTERNATE AREA CYLS/BLKS
1E	DCTTCYL	2		TRKS/CYL..CKD
20	DCTBTRK	4		CKD. BYTES PER TRK
24	DCTTFIX	4		CYL/BLKS UNDER FIXED ACCESS
28	DCTMAXR	2		MAX PHYS RECORD SIZE
2A	DCTROH	3		DEVICE O/HEAD
2D	DCTFLG	1	A*6	DEVICE TOLERANCE FLAG
2E	DCTTFAC	2		TOLERANCE FACTOR
2E	DCTBYSEG	1	A*7	BYTES / SEGMENT
2F		1	A*8	RESERVED
30	DCTRPSC	1	A*9	RPS DEVICE TYPE CODE
31		1		RESERVED

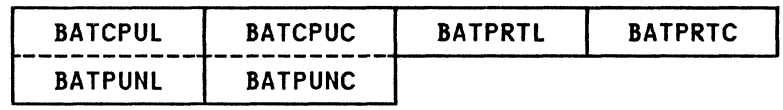
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

AVRCKD	000B	02	AVRRPS	000B	03	AVRVTOC	000C	..	DCTPCYL	001A	..
AVRDEVC	0014	..	AVRTYPE	000B	..	DCTACYL	001C	..	DCTPUBC	0014	..
AVRFBA	000B	01	AVRVCC	000C	..	DCTADR	0014	..	DCTROH	002A	..
AVRFLAG	000A	..	AVRVCI	000C	..	DCTBTRK	0020	..	DCTRPSC	0030	..
AVRL[illegible]	....	30	AVRVHH	000E	..	DCTBYSEG	002E	..	DCTTCYL	001E	..
AVRLNO	0012	..	AVRVNUM	000D	..	DCTDTFC	0015	..	DCTTFAC	002E	..
AVRNLNO	000A	02	AVRVOLC	0000	..	DCTFLG	002D	..	DCTTFIX	0024	..
AVRNVOL	000A	01	AVRVOLID	0004	..	DCTLEN	....	1C	DCTUCBC	0016	..
AVRPUB	0000	..	AVRVR	0010	..	DCTMAXR	0028	..			

BATLSECT: CMS BATCH USER JOB LIMITS

BATLSECT describes the fields in the user job limits table for CMS batch jobs. BATLSECT is invoked by the BATLIMIT macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	BATCPUL	2		VIRT.CPU LIMIT (SEC.) - CAN BE RESET
2	BATCPUC	2		CURRENT CPU COUNT - DO NOT RESET
4	BATPRTL	2		NO. PRINTED LINES LIMIT - CAN BE RESET
6	BATPRTC	2		CURRENT LINE COUNT - DO NOT RESET
8	BATPUNL	2		NO. PUNCHED CARDS LIMIT - CAN BE RESET
A	BATPUNC	2		CURRENT CARD COUNT - DO NOT RESET

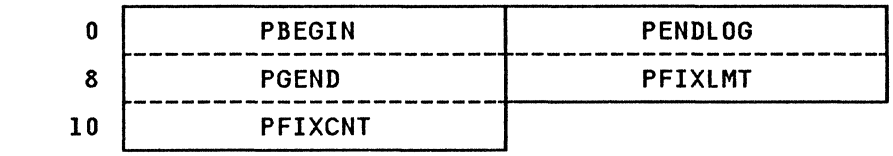
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
BATCPUC  0002 ..    BATPRTC  0006 ..    BATPRTL  0004 ..    BATPUNC  000A ..
BATCPUL  0000 ..                                            BATPUNL  0008 ..
```

BBOX: BOUNDARY BOX

BBOX contains the beginning addresses of the VSE partitions when CMS/DOS is active; one for each entry. BBOX is invoked by the BBOX macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PBEGIN	4		PARTN START ADDR
4	PENDLOG	4		PARTN LOGICAL END
8	PGEND	4		PARTN PHYSICAL END
C	PFIXLMT	4		PFIX LIMIT ZERO FOR CMS
10	PFIXCNT	4		PFIX COUNT ZERO FOR CMS

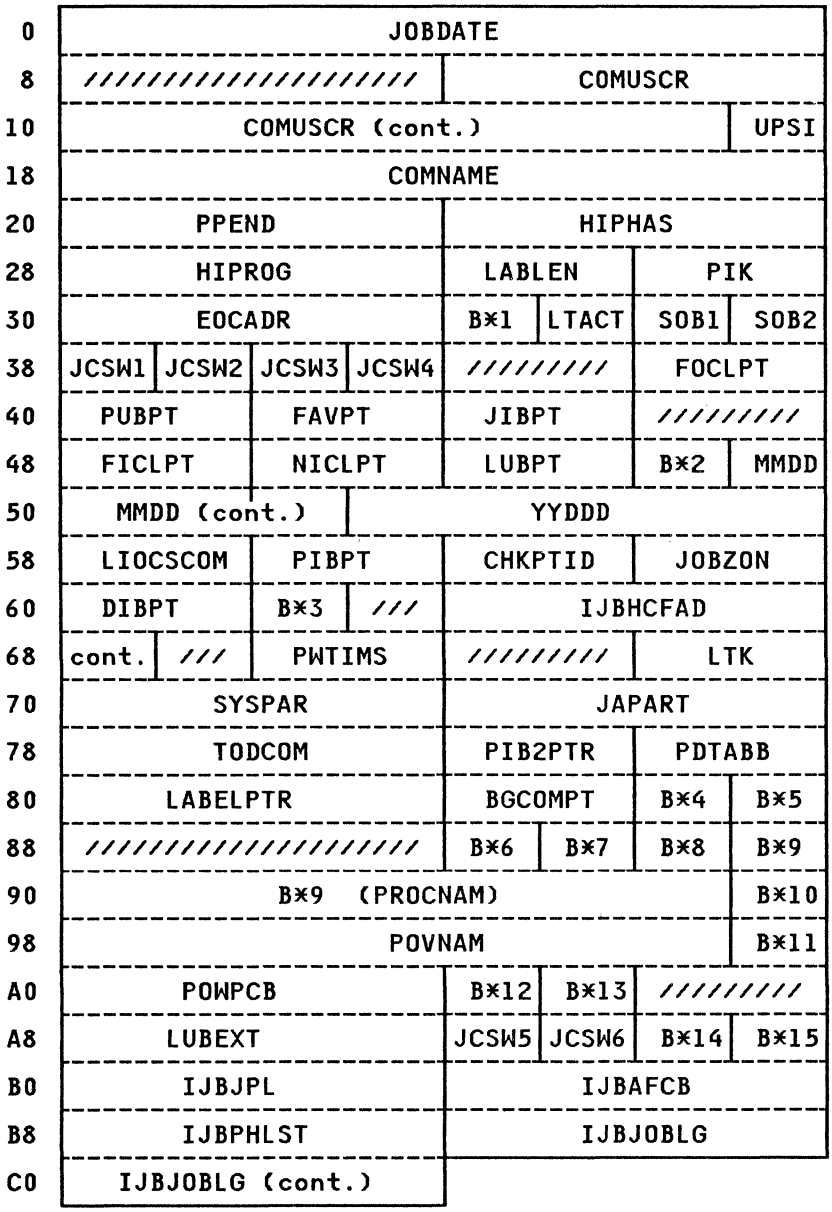
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
PBEGIN   0000 ..    PFIXCNT  0010 ..    PFIXLMT  000C ..
PENDLOG  0004 ..                       PGEND    0008 ..
```

BGCOM: VSE PARTITION COMMUNICATION REGION

BGCOM simulates the DOS/VS Partition Communication Region (BGCOM). The ABGCOM field in NUCON points to the BGCOM block. BGCOM is invoked by the BGCOM macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	JOBDATE	8		JOB DATE
8		4		RESERVED
C	COMUSCR	11		USER SCRATCH AREA
17	UPSI	1		UPSI BYTE
18	COMNAME	8		JOB NAME
20	PPEND	4		HIGHEST STORAGE ADDRESS OF PARTITION
24	HIPHAS	4		END ADDRESS OF LAST PHASE LOADED
28	HIPROG	4		END ADDRESS OF LONGEST PHASE LOADED
2C	LABLEN	2		LENGTH OF PROBLEM PROGRAM LABEL AREA
2E	PIK	2		PROGRAM INTERRUPT KEY
30	EOCADR	4		END OF VIRTUAL STORAGE ADDRESS
34	CONFIG	1	B*1	MACHINE CONFIGURATION BYTE
35	LTACT	1		SYSTEM CONFIGURATION BYTE
36	SOB1	1		STANDARD LANGUAGE TRANSLATOR OPTIONS
37	SOB2	1		STANDARD SUPERVISOR OPTIONS
38	JCSW1	1		JOB CONTROL BYTE
39	JCSW2	1		LINKAGE CONTROL BYTE
3A	JCSW3	1		NON-STD LANGUAGE TRANSLATOR OPTIONS
3B	JCSW4	1		JOB DURATION INDICATOR BYTE
3C		2		RESERVED
3E	FOCLPT	2		ADDRESS OF FOCL
40	PUBPT	2		ADDRESS OF PUB
42	FAVPT	2		ADDRESS OF FAVP
44	JIBPT	2		ADDRESS OF JIB
46		2		RESERVED
48	FICLPT	2		ADDRESS OF FICL
4A	NICLPT	2		ADDRESS OF NICL
4C	LUBPT	2		ADDRESS OF LUB
4E	SYSLINE	1	B*2	SYSLST LINE COUNT
4F	SYSDATE	9		SYSTEM DATE
4F	MMDD	4		MMDD OR DDMM
53	YYDDD	5		YYDDD PORTION OF DATE
58	LIOCSCOM	2		LIOCS COMMUNICATION BYTES

DISP	NAME	LEN	KEY	DESCRIPTION
5A	PIBPT	2		ADDRESS OF PIB
5C	CHKPTID	2		LAST CHECKPOINT NUMBER
5E	JOBZON	2		JOB ZONE IN MINUTES
60	DIBPT	2		BACKGROUND DIB POINTER
62	DEVFLG1	1	B*3	DEV FLAGS FOR AUTOCLOSE
63		1		RESERVED
64	IJBHCFAD	5		JOB STATEMENT ON HC FILE
69		1		RESERVED
6A	PWTIMS	2		KEY OF PROGRAM WITH IT SUPPORT
6C		2		RESERVED
6E	LTK	2		LOGICAL TRANSIENT KEY
70	SYSPAR	4		ADDRESS OF SYSPARM
74	JAPART	4		ADDRESS OF JOB ACCOUNTING TABLE
78	TODCOM	4		ADDRESS OF TOD COMMUNICATIONS AREA
7C	PIB2PTR	2		ADDRESS OF PIB EXTENSION
7E	PDTABB	2		ADDRESS OF MICR DTF TABLE
80	LABELPTR	4		ADDRESS OF LABEL SPACE
84	BGCOMPT	2		ADDRESS OF BACKGROUND COMREG
86	OPTNBYTE	1	B*4	OPTION INDICATOR BYTE
87	RMSROPEN	1	B*5	SYSTEM CONFIG BYTE 2
88		4		RESERVED
8C	STDOPT	1	B*6	STANDARD JOB CONTROL OPTION BYTE
8D	TEMOPT	1	B*7	TEMPORARY JOB CONTROL OPTION BYTE
8E	DISKCONF	1	B*8	DISK CONFIGURATION BYTE
8F	PROCNAM	8	B*9	PROCEDURE NAME
97	PSWTCH	1	B*10	INTERFACE BYTE FOR CATALOG PROCEDURE
98	POVNAM	7		SAVE AREA FOR STATEMENT NAME
9F	INSIZE	1	B*11	81 BYTE SYSIN INDICATOR
A0	POWPCB	4		ADDRESS OF PART CTL BLOCK
A4	POWFLG1	1	B*12	POWER/VS FLAG BYTE 1
A5	POWFLG2	1	B*13	POWER/VS FLAG BYTE 2
A6		2		RESERVED
A8	LUBEXT	4		ADDRESS OF LUB TAB EXT
AC	JCSW5	1		JOB CTL SWITCH 5
AD	JCSW6	1		JOB CTL SWITCH 6

DISP	NAME	LEN	KEY	DESCRIPTION
AE	STDOPT2	1	B*14	STANDARD OPTIONS 2
AF	TEMOPT2	1	B*15	TEMPORARY OPTIONS 2
B0	IJBJPL	4		ADDRESS OF JPL OF PARTITION
B4	IJBAFCB	4		SLOT FOR CICS
B8	IJBPHLST	4		ADDRESS OF FETCH/LOAD TRACE TABLE
BC	IJBJOBLG	8		ADDRESS OF LAST HC JOBSTMNT
C4	COMREND			END LABEL

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

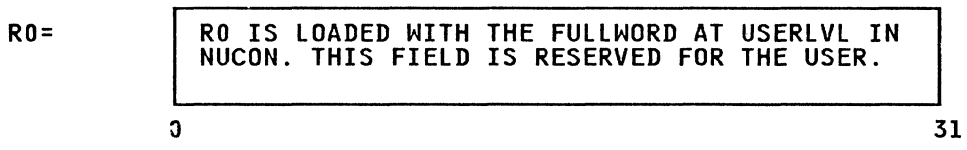
BGCOMPT 0084 ..	IJBJOBLG 00BC ..	LTACT 0035 ..	PROCNAM 008F ..
CHKPTID 005C ..	IJBJPL 00B0 ..	LTK 006E ..	PSWTCH 0097 ..
COMNAME 0018 ..	IJBPHLST 00B8 ..	LUBEXT 00A8 ..	PUBPT 0040 ..
COMREND 00C4 ..	INSIZE 009F ..	LUBPT 004C ..	PWTIMS 006A ..
COMUSCR 000C ..	JAPART 0074 ..	MMDD 004F ..	RMSROPEN 0087 ..
CONFIG 0034 ..	JCSW1 0038 ..	NICLPT 004A ..	SOB1 0036 ..
DEVFLG1 0062 ..	JCSW2 0039 ..	OPNBYT2 0063 ..	SOB2 0037 ..
DIBPT 0060 ..	JCSW3 003A ..	OPTNBYTE 0086 ..	STDOPT 008C ..
DISKCONF 008E ..	JCSW4 003B ..	PDTABB 007E ..	STDOPT2 00AE ..
EOCADR 0030 ..	JCSW5 00AC ..	PIBPT 005A ..	SYSDATE 004F ..
FAVPT 0042 ..	JCSW6 00AD ..	PIB2PTR 007C ..	SYSLINE 004E ..
FICLPT 0048 ..	JIBPT 0044 ..	PIK 002E ..	SYSPAR 0070 ..
FOCLPT 003E ..	JOBDATE 0000 ..	POVNAM 0098 ..	TEMOPT 008D ..
HIPHAS 0024 ..	JOBZON 005E ..	POWFLG1 00A4 ..	TEMOPT2 00AF ..
HIPROG 0028 ..	LABELPTR 0080 ..	POWFLG2 00A5 ..	TODCOM 0078 ..
IJBAFCB 00B4 ..	LABLEN 002C ..	POWPCB 00A0 ..	UPSI 0017 ..
IJBHCFAD 0064 ..	LIOCSCOM 0058 ..	PPEND 0020 ..	YYDDD 0053 ..

CMSLEVEL

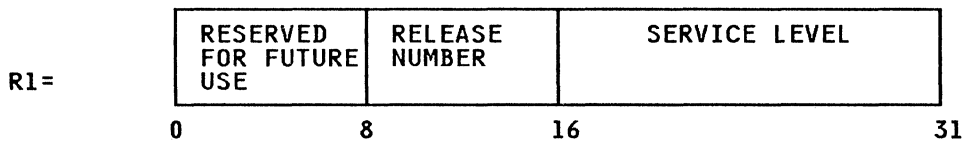
CMSLEVEL maps the contents returned by the QUERY CMSLEVEL CMS command. CMSLEVEL is invoked by the CMSLEVEL macro.

The following picture represents the contents of registers and not of storage.

QUERY CMSLEVEL LOADS R0 WITH THE FOLLOWING:



QUERY CMSLEVEL LOADS R1 WITH THE FOLLOWING:



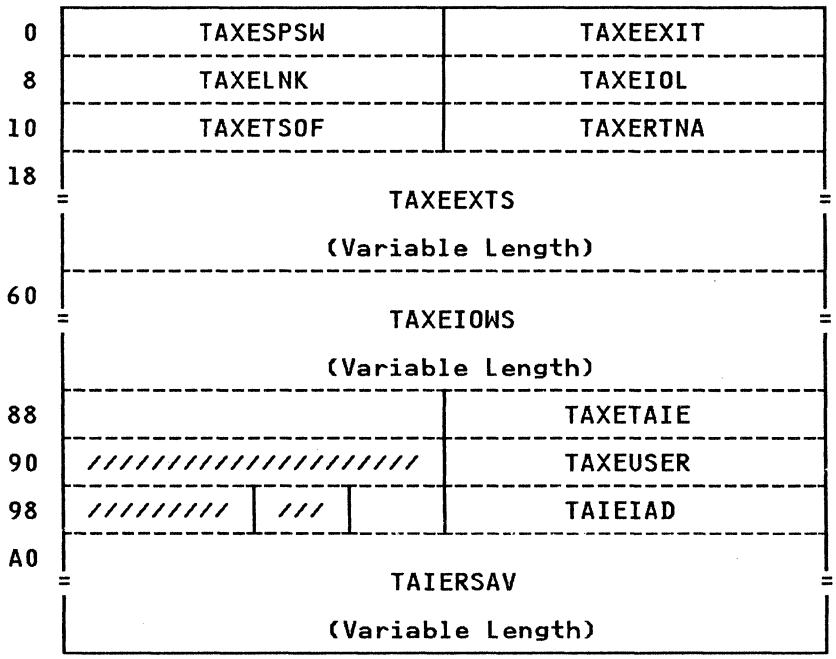
THE CODE FOR RELEASE IS DEFINED AS:

Name	Len	Description	
VMR6	00	VM/370	RELEASE 6
VMBSEP	01	VM/BSEP	RELEASE 2
VMSEP	02	VM/SEP	RELEASE 2
VMSP1	03	VM/SP	RELEASE 1
VMSP2	04	VM/SP	RELEASE 2
VMSP3	05	VM/SP	RELEASE 3
VMSP4	06	VM/SP	RELEASE 4
VMSP5	07	VM/SP	RELEASE 5
VMPC	10	VM/PC	VERSION 1.00
VMPC	20	VM/SP	VERSION 2.00

SERVICE LEVEL is a halfword in binary format.

CMSTAXE: TERMINAL ATTENTION EXIT ELEMENT

CMSTAXE defines the fields used in a Terminal Attention Exit Element (TAXE). The TAXE is used mainly by DMSCIT for processing attention interrupts. CMSTAXE is invoked via the TSOBLOKS macro. The TAXEADDR field in NUCON points to CMSTAXE.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	TAXESPSW	4		LEFT HALF PSW FOR ATTENTION RETURN
4	TAXEEXIT	4		ATTENTION EXIT ADDRESS
8	TAXESTAT	4		STATUS OF EXIT RETURN
	Values Defined in TAXESTAT			
80	TAXEFREQ			ATTENTION EXIT TAKEN
8	TAXELNK	4		NEXT TAXE ON QUEUE
C	TAXEIOL	4		LEFT HALF IO OLD PSW
10	TAXETSOF	4		TSOFLAGS SAVED HERE
14	TAXERTNA	4		RETURN ADDRESS
18	TAXEEXTS	0		ATTENTION EXIT RETURN SAVE AREA

DISP	NAME	LEN	KEY	DESCRIPTION
60	TAXEIOWS	0		DMSIOW SAVE AREA
ALSO ATTENTION EXIT PARAMETER LIST				
88		4		RESERVED
8C	TAXETAIE	4		ADDRESS OF TAIE
90		4		RESERVED
94	TAXEDEF	4		DEFER INDICATOR
94	TAXEUSER	4		USER PARAMETER LIST ADDRESS
ALSO TERMINAL ATTENTION INTERRUPT ELEMENT (TAIE)				
98		2		RESERVED
9A		1		RESERVED
9B		1		RESERVED
9C	TAIEIAD	4		RIGHT HALF IO OLD PSW
A0	TAIERSAV	64		REGISTERS 0-15 INTERRUPTED PROGRAM

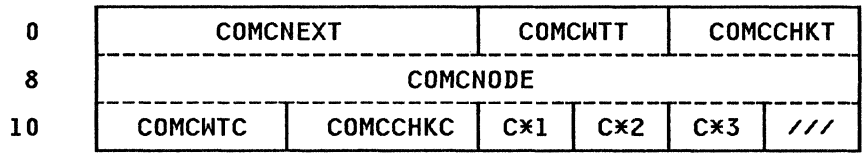
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

TAIEIAD	009C ..	TAXEEXIT	0004 ..	TAXEIOWS	0060 ..	TAXESTAT	0008 ..
TAIEMSGL	0098 ..	TAXEEXTS	0018 ..	TAXELNK	0008 ..	TAXETAIE	008C ..
TAIERSAV	00A0 ..	TAXEFREQ	0008 80	TAXERTNA	0014 ..	TAXETSOF	0010 ..
TAIETGET	009A ..	TAXEIOL	000C ..	TAXESPSW	0000 ..	TAXEUSER	0094 ..
TAXEDEF	0094 ..						

COMCLIST: COMMUNICATIONS CHECKING LIST

One of these control blocks is created for each node that is checked for its ability to communicate with the programmable operator facility. The programmable operator facility uses this block as a listing to verify which nodes have to be checked.



SIZE

NODE LIST ENTRY LENGTH IN DOUBLEWORDS (CONCLEND) 03
NODE LIST ENTRY LENGTH IN BYTES (COMCLEN) 18

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	COMCNEXT	4		ADDRESS OF NEXT COMCLIST BLOCK
4	COMCWTT	2		TIME TO WAIT FOR RESPONSE
6	COMCCHKT	2		TIME BETWEEN CHECKS ON THIS NODE
8	COMCNODE	8		ID OF NODE BEING CHECKED
10	COMCWTC	2		RESPONSE WAIT COUNT
12	COMCCHKC	2		CHECKING WAIT COUNT
14	COMCSTSF	1	C*1	FLAGS INDICATING CURRENT STATUS

Values Defined in COMCSTSF

80	COMCUP	THIS NODE CURRENTLY OPERATIONAL
40	COMCRESP	THIS NODE HAS RESPONDED
20	COMCWAIT	AWAITING RESPONSE ON THIS NODE
10	COMCCKON	CHECKING IS ON FOR THIS NODE

15	COMCBLEN	1	C*2	CHKNODES BLOCK LENGTH IN DOUBLEWORDS
16	COMCCTYP	1	C*3	TYPE OF COMMUNICATION CHECKING

Values Defined in COMCCTYP

02	COMCCPRP	INDICATES PROP CHECKING
01	COMCCHST	INDICATES HOST CHECKING

17		1	RESERVED

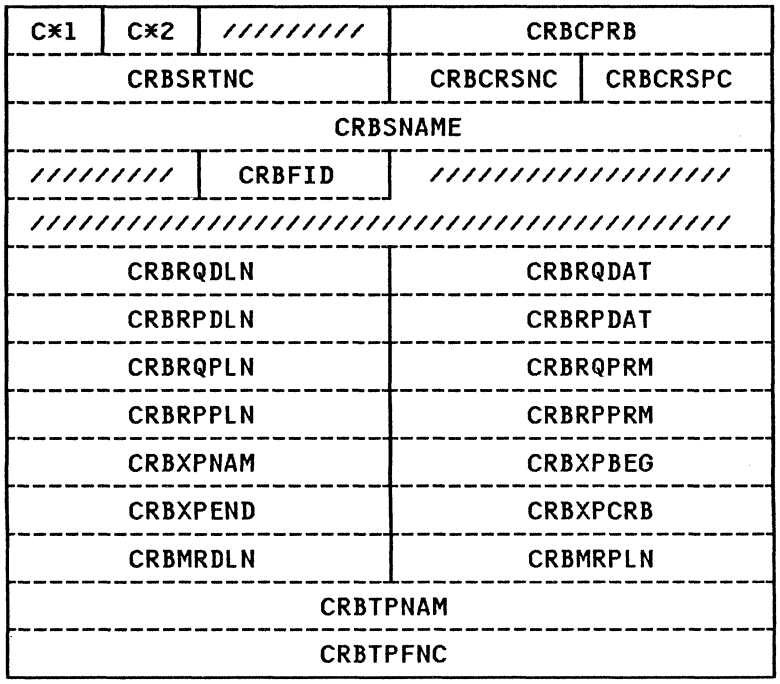
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

COMCBLEN	0015 ..	COMCCPRP	0016 02	COMCNEXT	0000 ..	COMCUP	0014 80
COMCCHKC	0012 ..	COMCCTYP	0016 ..	COMCNODE	0008 ..	COMCWAIT	0014 20
COMCCHKT	0006 ..	COMCLEN	 18	COMCRESP	0014 40	COMCWTC	0010 ..
COMCCHST	0016 01	COMCLEND	 03	COMCSTSF	0014 ..	COMCWTT	0004 ..
COMCCKON	0014 10						

CPRB: CONNECTIVITY PROGRAMMING REQUEST BLOCK

The Connectivity Programming Request Block contains information passed by a requester to the SRPI on entry to a server and information passed back from the server to the requester. The server can set some of the fields of the CPRB, and the system uses other fields. A path and/or device. A buffer may be specified for the 'OPEN' or 'QUERY' functions, and the information will be stored in this buffer by the console function.



SIZE

LENGTH OF CPRB (CRBLEN) 70

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CPRB	0		DEFINE TOTAL CPRB SPACE
0	CRBHDR	0		CPRB HEADER SECTION
0	CRBF1	1	C*1	CPRB VERSION IDENTIFIER
1	CRBFLAGS	1	C*2	RESERVED
	Values Defined in CRBFLAGS			
	80 CRBSINV			USED BY CMSSERV
2		2		RESERVED
4	CRBCPRB	4		CPRB SELF-IDENTIFIER FIELD

DISP	NAME	LEN	KEY	DESCRIPTION
8	CRBRTN	0		CPRB RETURN CODE SECTION
8	CRBSRTNC	4		SERVER RETURN CODE
C	CRBCRTNC	0		ENHANCED CONNECTIVITY FACILITIES RETURN CODE
C	CRBCRSNC	2		REASON CODE FIELD
E	CRBCRSPC	2		REPLY CODE FIELD
10	CRBDESC	0		CPRB DESCRIPTIVE SECTION
10	CRBSNAME	8		SERVER NAME
18		2		RESERVED
1A	CRBFID	2		SERVER FUNCTION NUMBER
1C		12		RESERVED
28	CRBPARMS	0		CPRB PARAMETER SECTION
28	CRBRQDLN	4		REQUEST DATA AREA LENGTH
2C	CRBRQDAT	4		REQUEST DATA AREA ADDRESS
30	CRBRPDLN	4		REPLY DATA AREA LENGTH
34	CRBRPDAT	4		REPLY DATA AREA ADDRESS
38	CRBRQPLN	4		REQUEST PARAMETER AREA LENGTH
3C	CRBRQPRM	4		REQUEST PARAMETER AREA ADDRESS
40	CRBRPPLN	4		REPLY PARAMETER AREA LENGTH
44	CRBRPPRM	4		REPLY PARAMETER AREA ADDRESS
48	CRBSYSTM	0		CPRB SYSTEM SECTION
48	CRBXPLST	0		EXTENDED PLIST
48	CRBXPNAM	4		POINTER TO SERVER NAME
4C	CRBXPBEG	4		BEGINNING OF ARGUMENTS
50	CRBXPEND	4		END OF ARGUMENTS
54	CRBXPCRB	4		POINTER TO CPRB
58	CRBMRDLN	4		MAXIMUM DATA AREA REPLY LENGTH
5C	CRBMRPLN	4		MAXIMUM PARAMETER REPLY LENGTH
60	CRBTPLST	0		TOKENIZED PLIST
60	CRBTPNAM	8		SERVER NAME
68	CRBTPFNC	8		PLIST FENCE - ALL X'FF'

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

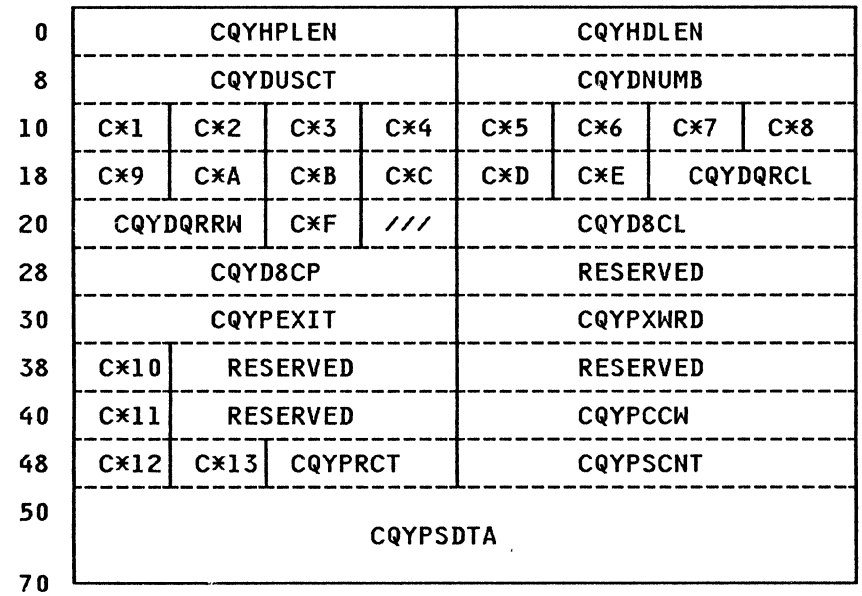
CPRB	0000	..	CRBHDR	0000	..	CRBRQDAT	002C	..	CRBTPFNC	0068	..
CRBCPRB	0004	..	CRBLEN	....	70	CRBRQDLN	0028	..	CRBTPLST	0060	..
CRBCRSNC	000C	..	CRBMRDLN	0058	..	CRBRQPLN	0038	..	CRBTPNAM	0060	..
CRBCRSPC	000E	..	CRBMRPLN	005C	..	CRBRQPRM	003C	..	CRBXPBEG	004C	..
CRBCRTNC	000C	..	CRBPARMS	0028	..	CRBRTN	0008	..	CRBXPCRB	0054	..
CRBDESC	0010	..	CRBRPDAT	0034	..	CRBSINV	0001	80	CRBXPEND	0050	..
CRBFID	001A	..	CRBRPDLN	0030	..	CRBSNAME	0010	..	CRBXPLST	0048	..
CRBFLAGS	0001	..	CRBRPPLN	0040	..	CRBSRTNC	0008	..	CRBXPNAM	0048	..
CRBFl	0000	..	CRBRPPRM	0044	..	CRBSYSTM	0048	..			

CQYSECT: CONSOLE QUERY MAPPING

The Console Query DSECT maps a user's buffer with information about a path and/or device. A buffer may be specified for the 'open' or 'query' functions, and the information will be stored in this buffer by the console function.

SIZE

TOTAL CQYSECT LENGTH (CQYSIZE) 70
PATH SECTION LENGTH (CQYPATHL) 40
LENGTH OF DEV + HDR SECTIONS (CQYDHL) 30
LENGTH OF DEVICE SECTION (CQYDEVL) 28
DISPLACEMENT TO FIRST 6 BYTES DIAG X'8C' INFO (CQYDQR) 1C
SIZE OF ALL SECTIONS IN DBWRDS (CQYDBSZ) E
REPLY BUFFER HEADER LENGTH (CQYHEADL) 8



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CQYHEAD	0		REPLY BUFFER HEADER
0	CQYHPLEN	4		LENGTH OF PATH SECTION
4	CQYHDLEN	4		LENGTH OF DEVICE SECTION
8	CQYDEV	0		DEVICE DATA SECTION
8	CQYDUSCT	4		NO. PATHS OPENED TO THIS DEVICE
C	CQYDNUMB	4		VIRTUAL DEVICE NUMBER
10	CQYDVIRT	0		VIRTUAL DEVICE INFO
10	CQYDVCLS	1	C*1	VIRTUAL DEV TYPE CLASS
11	CQYDVTYP	1	C*2	VIRTUAL DEVICE TYPE
12	CQYDVSTT	1	C*3	VIRTUAL DEVICE STATUS
13	CQYDVFLG	1	C*4	VIRTUAL DEVICE FLAGS

DISP	NAME	LEN	KEY	DESCRIPTION
14	CQYDREAL	0		REAL DEVICE INFO
14	CQYDRCLS	1	C*5	REAL DEVICE TYPE CLASS
15	CQYDRTYP	1	C*6	REAL DEVICE TYPE
16	CQYDRMDL	1	C*7	REAL MODEL NUMBER
17	CQYDRFTR	1	C*8	REAL FEATURE CODE
18	CQYDVCNS	0		MORE DIAG X'24' INFO
18	CQYDLLEN	1	C*9	VIRT. CONSOLE LINE LENGTH
19	CQYDTMCD	1	C*A	VIRT. CONSOLE TERMINAL CODE
1A	CQYDATTR	1	C*B	DEVICE ATTRIBUTE FLAGS

Values Defined in CQYDATTR

04	CQYDARMT	DEV. IS A REMOTE 3270
02	CQYDADSP	DEV. IS A DISPLAY
01	CQYDAVCN	DEV. IS THE VIRTUAL CONSOLE

1B	CQYDSTAT	1	C*C	DEVICE STATUS FLAG 1

Values Defined in CQYDSTAT

80	CQYDATTN	ATTENTION PENDING
40	CQYDDISC	DEVICE IS DISCONNECTED

1C	CQYDQR	0		FIRST 6 BYTES OF DIAG X'8C' INFORMATION
1C	CQYDQRFL	1	C*D	FLAGS

Values Defined in CQYDQRFL

80	CQYDQREC	EXTENDED COLOR SUPPORTED
40	CQYDQREH	EXTENDED HIGHLIGHT SUPPORTED
20	CQYDQRPS	PSS SUPPORTED
01	CQYDQR14	14-BIT ADDRESSING SUPPORTED

1D	CQYDQRPN	1	C*E	NUMBER OF PARTITIONS
1E	CQYDQRCL	2		NUMBER OF COLUMNS
20	CQYDQRRW	2		NUMBER OF ROWS
22	CQYDQYCD	1	C*F	DEVICE QUERY CODE
23		1		RESERVED
24	CQYD8CL	4		LENGTH OF REMAINING DIAG X'8C' INFO
28	CQYD8CP	4		POINTER TO DIAG X'8C' BUFFER
2C		4		RESERVED
30	CQYPATH	0		PATH DATA SECTION
30	CQYPEXIT	4		USER EXIT ADDRESS
34	CQYPXWRD	4		USER WORD

DISP	NAME	LEN	KEY	DESCRIPTION
38	CQYPFLG	1	C*10	PATH FLAG
	Values Defined in CQYPFLG			
	80 CQYPLIO			PATH DID LAST I/O
39		7		RESERVED
40	CQYPSCSW	0		CHANNEL STATUS WORD
40	CQYPSLCC	1	C*11	LOGOUT PENDING/COND. CODES
	Values Defined in CQYPSLCC			
	04 CQYPLOG			LOGOUT PENDING
	03 CQYPCC			DEFERRED CONDITION CODE
41		3		RESERVED
44	CQYPCCW	4		LAST CCW EXECUTED
48	CQYPUST	1	C*12	UNIT STATUS BYTE
	Values Defined in CQYPUST			
	80 CQYPATTN			ATTENTION
	40 CQYPSTMD			STATUS MODIFIER
	20 CQYPCUE			CONTROL UNIT END
	10 CQYPBUSY			BUSY
	08 CQYPCHEN			CHANNEL END
	04 CQYPDVEN			DEVICE END
	02 CQYPUNCK			UNIT CHECK
	01 CQYPUNEX			UNIT EXCEPTION
49	CQYPCST	1	C*13	CHANNEL STATUS BYTE
	Values Defined in CQYPCST			
	80 CQYPPCI			PROGRAM-CONTROLLED INTERRUPTION
	40 CQYPICL			INCORRECT LENGTH
	20 CQYPPGCK			PROGRAM CHECK
	10 CQYPPRCK			PROTECTION CHECK
	08 CQYPCDCK			CHANNEL DATA CHECK
	04 CQYPCCCK			CHANNEL CONTROL CHECK
	02 CQYPICCK			INTERFACE CONTROL CHECK
	01 CQYPCHCK			CHAINING CHECK
4A	CQYPRCT	2		RESIDUAL COUNT
4C	CQYPSCNT	4		SENSE COUNT
50	CQYPSDTA	32		SENSE DATA

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

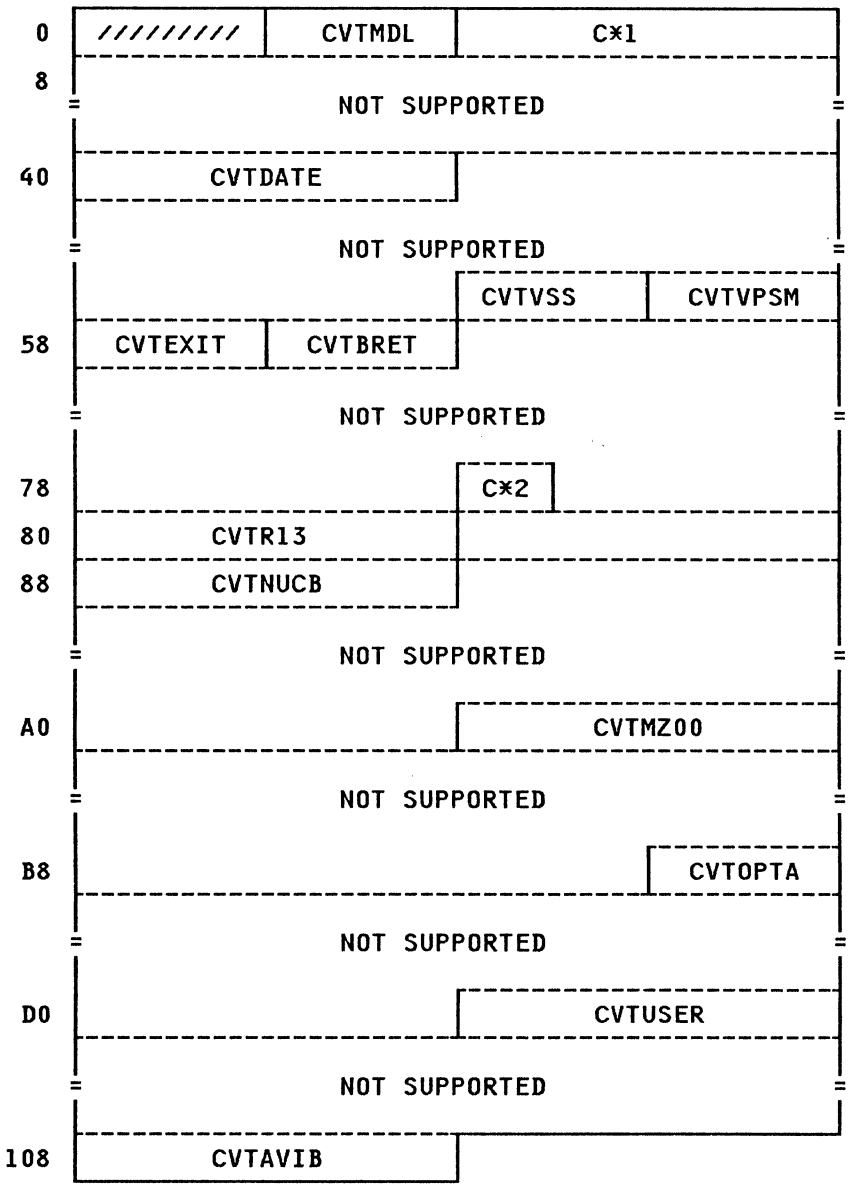
CQYDADSP	001A	02	CQYDBSZ	....	E	CQYDLLEN	0018	..	CQYDQREH	001C	40
CQYDARMT	001A	04	CQYDDISC	001B	40	CQYDNUMB	000C	..	CQYDQRFL	001C	..
CQYDATTN	001B	80	CQYDEV	0008	..	CQYDQR	001C	..	CQYDQRPN	001D	..
CQYDATTR	001A	..	CQYDEVL	....	28	CQYDQRCL	001E	..	CQYDQRPS	001C	20
CQYDAVCN	001A	01	CQYDHL	....	30	CQYDQREC	001C	80	CQYDQRRW	0020	..

CROSS REFERENCE (Name Disp Value)

CQYDQR14	001C	01	CQYDVSTT	0012	..	CQYPCCW	0044	..	CQYPPGCK	0049	20
CQYDQYCD	0022	..	CQYDVTYP	0011	..	CQYPCDCK	0049	08	CQYPPRCK	0049	10
CQYDRCLS	0014	..	CQYD8CL	0024	..	CQYPCHCK	0049	01	CQYPRCT	004A	..
CQYDREAL	0014	..	CQYD8CP	0028	..	CQYPCHEN	0048	08	CQYPSCNT	004C	..
CQYDRFTR	0017	..	CQYHDLEN	0004	..	CQYPCST	0049	..	CQYPSCSW	0040	..
CQYDRMDL	0016	..	CQYHEAD	0000	..	CQYPCUE	0048	20	CQYPSDTA	0050	..
CQYDRTYP	0015	..	CQYHEADL	....	8	CQYPDVEN	0048	04	CQYPSLCC	0040	..
CQYDSTAT	001B	..	CQYHPLEN	0000	..	CQYPEXIT	0030	..	CQYPSTMD	0048	40
CQYDTMCD	0019	..	CQYPATH	0030	..	CQYPFLG	0038	..	CQYPUNCK	0048	02
CQYDUSCT	0008	..	CQYPATHL	....	40	CQYPICCK	0049	02	CQYPUNEX	0048	01
CQYDVCLS	0010	..	CQYPATTN	0048	80	CQYPICL	0049	40	CQYPUST	0048	..
CQYDVCNS	0018	..	CQYPBUSY	0048	10	CQYPLIO	0038	80	CQYPXWRD	0034	..
CQYDVFLG	0013	..	CQYPCC	0040	03	CQYPLOG	0040	04	CQYSIZE	....	70
CQYDVIRT	0010	..	CQYPCCCK	0049	04	CQYPPCI	0049	80			

CVTSECT: COMMUNICATIONS VECTOR TABLE AS SUPPORTED BY CMS

CVTSECT simulates the OS Communications Vector Table. CVTSECT is invoked via the CMSCVT macro. The ACMSCVT field in NUCON points to CMSCVT.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0		2		RESERVED
2	CVTMDL	2		CPU MODEL ID
4		4	C*1	'CSPR' - CMS SYSTEM PRODUCT RELEASE
8	CMSCVT	0		CVT START
8		56		NOT SUPPORTED
40	CVTDATE	4		CURRENT DATE IN PACKED DECIMAL
44		12		NOT SUPPORTED
50		4		NOT SUPPORTED
54	CVTVPRM	4		VECTOR FACILITY PARAMETERS
54	CVTVSS	2		VECTOR SECTION SIZE
56	CVTVPSM	2		VECTOR PARTIAL SUM NUMBER
58	CVTEXIT	2		AN SVC 3 INSTRUCTION (EXIT)
5A	CVTBRET	2		A BCR 15,14 INSTRUCTION
5C		32		NOT SUPPORTED
7C	CVTDCB	1	C*2	SYSTEM CONFIGURATION = PCP
7D		3		NOT SUPPORTED
80	CVTR13	4		R13 SAVED DURING 'OPEN'
84		4		NOT SUPPORTED
88	CVTNUCB	4		LOWEST STORAGE ADDRESS NOT IN NUCLEUS
8C		32		NOT SUPPORTED
AC	CVTMZ00	4		HIGHEST STORAGE ADDRESS IN MACHINE
B0		12		NOT SUPPORTED
BC		2		NOT SUPPORTED
BE	CVTOPTA	2		BIT 7 - EXT-PREC FP HRDWRE IN CPU
C0		8		NOT SUPPORTED
C8		12		NOT SUPPORTED
D4	CVTUSER	4		FIELD AVAILABLE TO USER
D8		48		NOT SUPPORTED
108	CVTAVIB	4		ADDRESS OF VSAM INTFC BOOTSTRAP

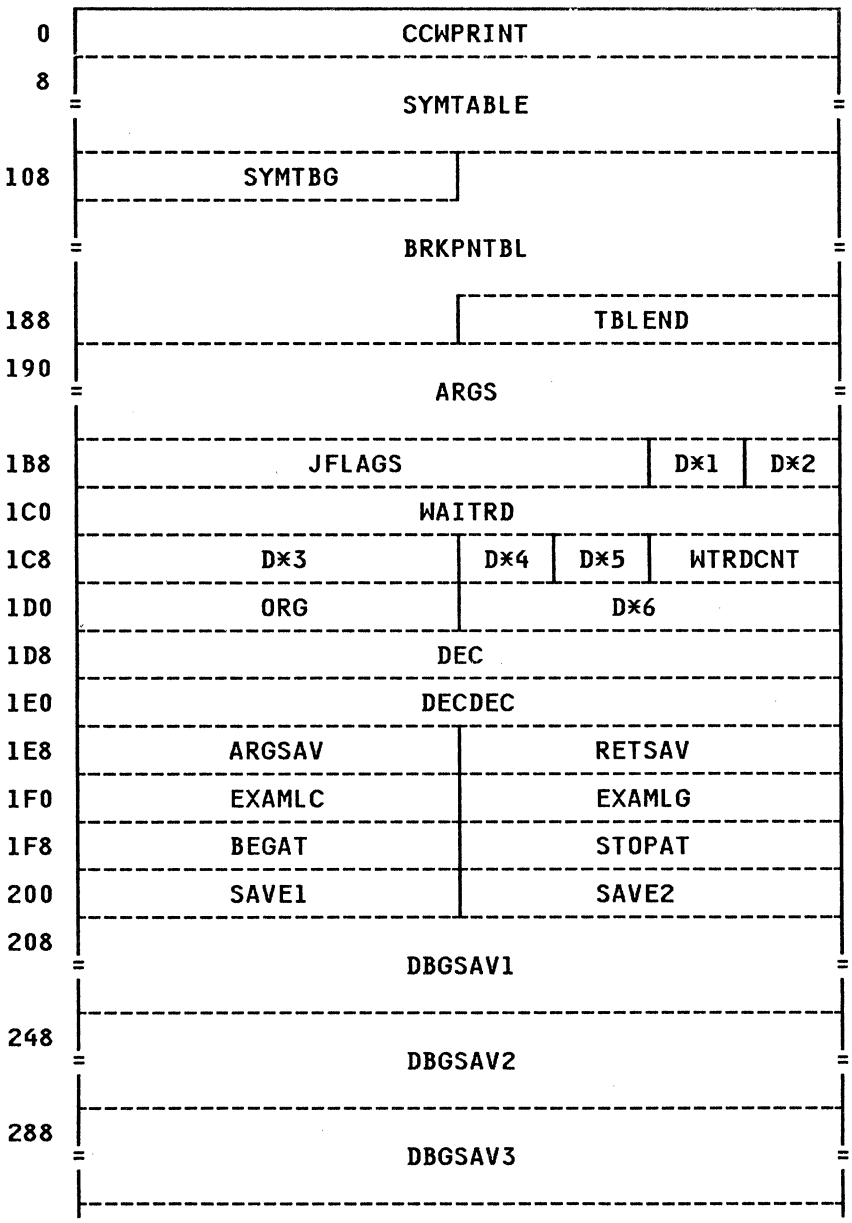
CROSS REFERENCE (Name Disp Value)

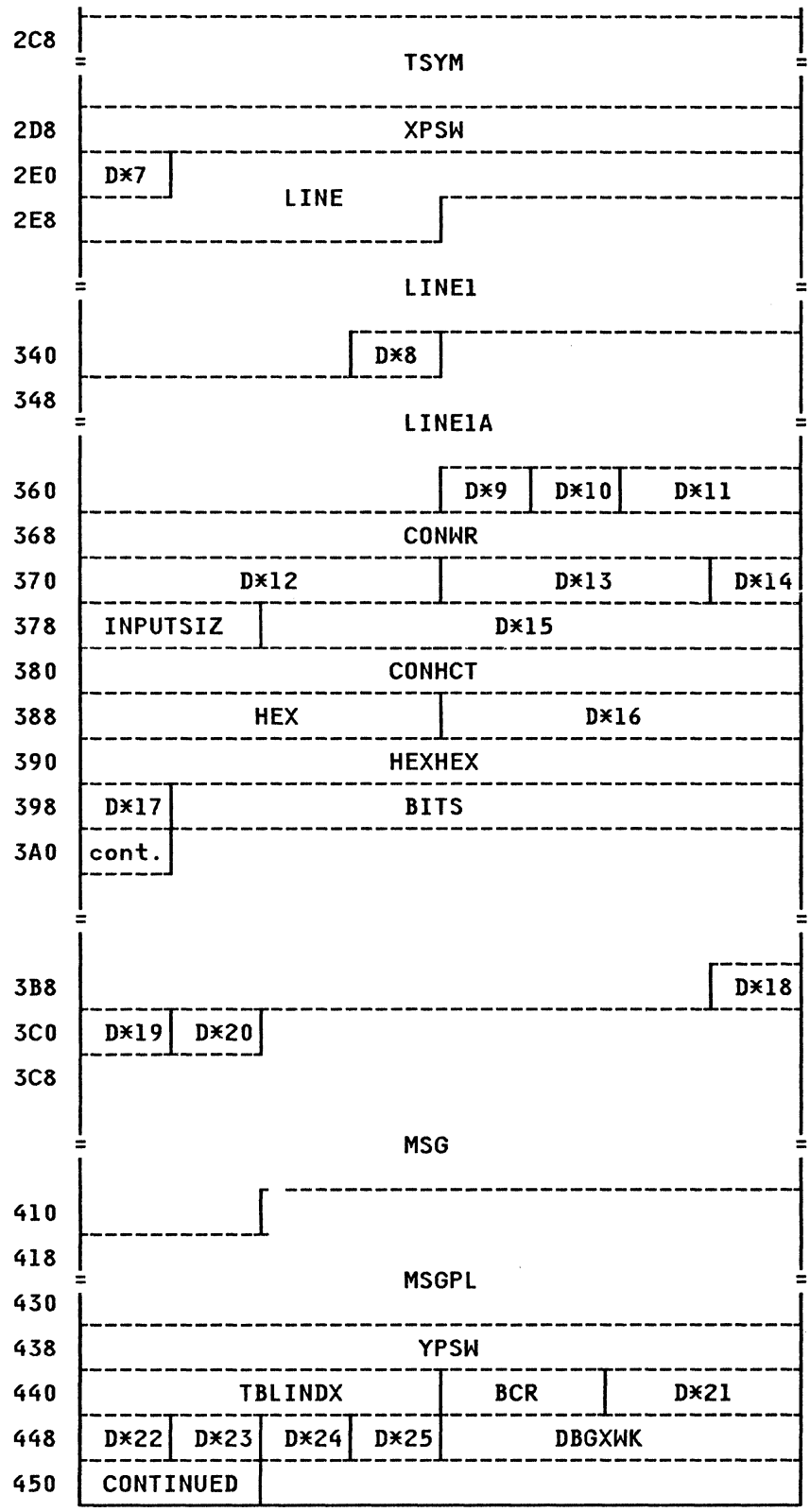
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

CMSCVT	0008	..	CVTDCB	007C	..	CVTNUCB	0088	..	CVTVPRM	0054	..
CVTAVIB	0108	..	CVTEXIT	0058	..	CVTOPTA	00BE	..	CVTVPSM	0056	..
CVTBRET	005A	..	CVTMDL	0002	..	CVTR13	0080	..	CVTVSS	0054	..
CVTDATE	0040	..	CVTMZ00	00AC	..	CVTUSER	00D4	..			

DBGSECT: DEBUG WORK AREA

DBGSECT contains the files used by DEBUG for saving registers, breakpoints, PSWs, and other data. V-constants in DMSDBD, DMSDBG, and DMSITE point to the DEBUG work area. DBGSECT is invoked via the DBGSECT macro.




2C8
TSYM
2D8
XPSW
2E0
D*7
LINE
2E8
LINE1
340
D*8
348
LINE1A
360
D*9
D*10
D*11
368
CONWR
370
D*12
D*13
D*14
378
INPUTSIZ
D*15
380
CONHCT
388
HEX
D*16
390
HEXHEX
398
D*17
BITS
3A0
cont.
3B8
D*18
3C0
D*19
D*20
3C8
MSG
410
418
MSGPL
430
438
YPSW
440
TBLINDX
BCR
D*21
448
D*22
D*23
D*24
D*25
DBGXWK
450
CONTINUED

SIZE

FOR INITIALIZING TO ZERO (MVCNT2) 2F
NUMBER OF BYTES IN ARGS (MVCNT1) 28

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CCWPRINT	8		PRINTER CCW FOR DEBDUMP
8	SYMTABLE	256		USER DEFINED SYMBOL TABLE
108	SYMTBG	4		SYMBOL TABLE ENTRIES
10C	BRKPNTBL	64		BREAKPOINT TABLE
18C	TBLEND	4		END ADDRESS OF BREAKPOINT TABLE
STORAGE AND CONSTANTS FOR NEWLIN AND CONTROL				
190	ARGS	40		ARGUMENTS STORED HERE
1B8	ARGMAX			END OF ARGUMENT AREA
1B8	JFLAGS	6		FLAGS CORRESPONDING TO ARGS
ONE FLAG FOR EACH PARAMETER: 00 = NUMERIC (0 - 9) F0 = HEX (A - F, 0 - 9) FF = ALPHABETIC (A - F)				
1BE	ARGSCT	1	D*1	NUMBER OF ARGUMENTS IN COMMAND LINE
1C0	WAITRD	8		PARAMETER LIST TO GET INPUT LINE
1C8		4	D*3	A(INPUT BUFFER)
1CC		1	D*4	CLEAN UP AND LOGICAL CARRIAGE RETURN
1CD		1	D*5	X'00'
1CE	WTRDCNT	2		BYTE COUNT FILLED IN HERE
1D0	ORG	4		ORIGIN OF ROUTINE BEING EXAMINED
THE FOLLOWING VARIABLES ARE USED BY DEBUG AND DEBDUMP				
1D8	DEC	8		BINARY WORD
1E0	DECDEC	8		DECIMAL WORD
1E0	LASTLINE			32 BYTES FOR LAST LINE DUMPED
1E8	ARGSAV	4		STORAGE FOR ARGUMENT LOCATION
1EC	RETSAV	4		STORAGE FOR RETURN ADDRESS
1F0	EXAMLC	4		FIRST LOCATION TO BE EXAMINED
1F4	EXAMLG	4		LENGTH OF FIELD TO BE EXAMINED
1F8	BEGAT	4		BEGINNING PARAMETER BEING PROCESSED
1FC	STOPAT	4		LAST PARAMETER LOCATION
200	SAVE1	4		DEBDUMP USES FOR LINE COUNT
204	SAVE2	4		
208	DBGSAV1	64		DEBUG BALR-CALL SAVE

DISP	NAME	LEN	KEY	DESCRIPTION
248	DBGSAV2	64		SAVE AREA FOR CONWAIT/CONREAD
288	DBGSAV3	64		SAVE AREA FOR USER REGISTERS
2C8	TSYM	16		SYMBOL ENTRY
2D8	XPSW	8		PSW TO BE LOADED UPON GO
2E0	OUTPT1	1	D*7	BYTE COUNT
2E1	LINE	11		I/O BUFFER
2E1	DBGOUT			OUTPUT BUFFER
2E1	INPUT			INPUT BUFFER
2EC	LINE1	87		
31D	INPUT1			HEX PACK AREA
343	LINE1B	1	D*8	
344	LINE1A	32		
364	LINE1C	1	D*9	
365	LINE1D	1	D*10	
366		2	D*11	UNUSED
368	CONWR	8		PLIST TO TYPE OUTPUT LINE
370		4	D*12	
374		3	D*13	
377	CONWRL	1	D*14	
378	INPUTSIZ	2		SIZE OF TYPED IN INPUT LINE
37A		6	D*15	
37C		4		
380	CONHCT	8		
388	HEX	4		BINARY WORD
38C		4	D*16	
390	HEXHEX	8		PRINTER GRAPHIC WORD
398		1	D*17	
399	BITS	8		
3AF		10		
3B9		6		

DISP	NAME	LEN	KEY	DESCRIPTION
3BF	DBGSWTCH	1	D*18	INTERNAL DEBUG STATUS FLAGS

Values Defined in DBGSWTCH

80		UNUSED FLAG
40		UNUSED FLAG
20	DBDEXIT	SIGNALS EXIT FROM DEBDUMP
10	DBDDMSG	SIGNALS DUPLICATE MESSAGE IN DEBDUMP
08	DBGSET	SIGNALS SET COMMAND
04	DBGPERM	RESERVED FOR IBM USE
02	DBGCOND	RESERVED FOR IBM USE

THE FOLLOWING IS USED BY DMSDBD

3C0	MSGFLAG	1	D*19	INIT MESSAGE FLAG TO NOT USE
3C1	DUBMSG	1	D*20	MESSAGE BUFFER
3C2	MSG	80		

THE FOLLOWING IS USED BY DMSDBG

412	MSGPL	37		

THE FOLLOWING ARE RESERVED FOR FUTURE USE

438	YPSW	8		PSW CONTAINING NSI
440	TBLINDX	4		CURRENT BRKPT TABLE INDEX
444	BCR	2		NOPR TO PAD DBGXWK WHEN NEEDED
446		2	D*21	ADDITIONAL NOPR (IF NEEDED)
448	ILC	1	D*22	ILC OF INSTRUCTION IN DBGXWK
449	ILC11	1	D*23	3 HALFWORD INSTRUCTION (6 BYTES)
44A	ILC0110	1	D*24	2 HALFWORD INSTRUCTION (4 BYTES)
44B	ILC00	1	D*25	1 HALFWORD INSTRUCTION (2 BYTES)
44C	DBGXWK	6		RECREATE INSTRUCTION AT BRKPT ADDRESS

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

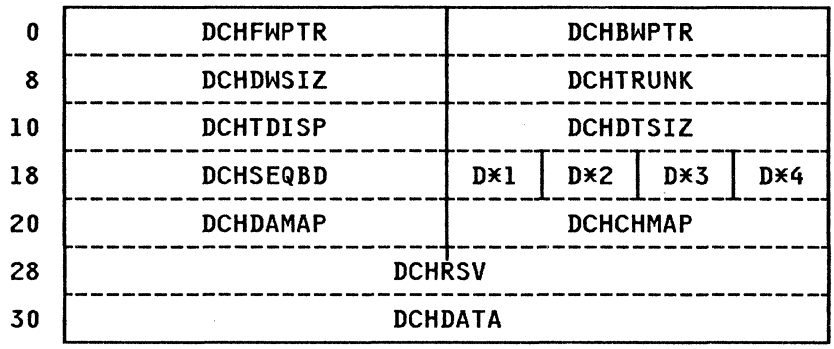
ARGMAX	0190	**	CONWRL	0377	..	EXAMLC	01F0	..	LINE1	02EC	..
ARGS	0190	..	DBDDMSG	037F	10	EXAMLG	01F4	..	LINE1A	0344	..
ARGSAV	01E8	..	DBDEXIT	037F	20	HEX	0388	..	LINE1B	0343	..
ARGSCT	01BE	..	DBGCOND	037F	02	HEXHEX	0390	..	LINE1C	0364	..
BAL	....	45	DBGOUT	0325	**	ILC	0448	..	LINE1D	0365	..
BALR	....	05	DBGPERM	037F	04	ILC00	044B	..	MSG	03C2	..
BCR	0444	..	DBGSAV1	0208	..	ILC0110	044A	..	MSGFLAG	03C0	..
BEGAT	01F8	..	DBGSAV2	0248	..	ILC11	0449	..	MVCNT	....	20
BITS	0399	..	DBGSET	037F	08	INPUT	0325	**	MVCNT1	....	28
BRKPNTBL	010C	..	DBGSWTCH	03BF	..	INPUTSIZ	0378	..	MVCNT2	....	2F
CCWPRINT	0000	..	DBGXWK	044C	..	INPUT1	0325	**	ORG	01D0	..
CONHCT	0380	..	DEC	01D8	..	JFLAGS	01B8	..	OUTPT1	02A0	..
CONHXT	03B9	**	DECDEC	01E0	..	LASTLINE	01FC	**	RETSAV	01EC	..
CONWR	0368	..	DUPMSG	03C1	..	LINE	02E1	..	SAVE1	0200	..

CROSS REFERENCE (Name Disp Value)

SAVE2	0204 ..	SYMTBG	0108 ..	TSYM	0288 ..	XPSW	0298 ..
STOPAT	01FC ..	TBLEND	018C ..	WAITRD	01C0 ..	YPSW	0438 ..
SYMTABLE	0008 ..	TBLINDX	0440 ..	WTRDCNT	01CE ..		

DCHSECT: DATA CONTROL HYPERBLOCK

DCHSECT is the data control hyperblock that is an in-storage representation of disk data blocks as well as the relationship of these blocks on the disk. DCHSECT is invoked via the DCH macro.



SIZE

PREFIX PORTION OF HBLK LENGTH IN BYTES (DCHPFIXL) 30

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DCHFWPTR	4		FORWARD POINTER
4	DCHBWPTR	4		BACKWARD POINTER
8	DCHDWSIZ	4		FULL HYPERBLK STOR SIZE IN DOUBLEWORDS
C	DCHTRUNK	4		ADDRESS OF NEXT BLOCK UP IN STRUCTURE
10	DCHTDISP	4		DISPLACEMENT TO DISK ADDRESS IN TRUNK POINTER BLOCK
14	DCHDTSIZ	4		DATA PORTION SIZE IN BYTES
18	DCHSEQBD	4		SEQUENTIAL DATA BLK DISPLACEMENT
1C	DCHFLG1	1	D*1	DCH FLAG 1

Values Defined in DCHFLG1

80	DCHCHOP	DEALLOC THIS DIRECTORY BLOCK DURING DIRECTORY UPDATE
40	DCHNEW	DO NOT REALLOC THIS DIRECTORY BLOCK DURING DIRECTORY UPDATE
20	DCHDALLO	DISK ADDRESS OF BLOCK IS IN DE-ALLOCATION LIST
10	DCHCHGD	BLOCK HAS BEEN ALTERED
08	DCHRALLO	DISK ADDRESS OF BLOCK IS IN RE-ALLOCATION LIST
04	DCHAUX	AUXILIARY DIRECTORY HAS BEEN CREATED

DISP	NAME	LEN	KEY	DESCRIPTION
1D	DCHFLG2	1	D*2	DCH FLAG 2

Values Defined in DCHFLG2

80	DCHFULL	ALL DISK BLOCKS ALLOCATED IN THIS HBLK
40	DCHDA	ALL DISK BLOCKS DEALLOCATED BY ERS
20	DCHLHBLK	LAST HBLK IN BUFFER CH FOR ERS
10	DCHDUM	DUMMY HBLK FOR CHAINING AUXILIARY DIRECTORY
08	DCHSHR	BLOCK IS IN SHARED STORAGE
04	DCHCACHE	BLOCK IS USED IN CACHING

1E	DCHFLG3	1	D*3	DCH FLAG 3 - RESERVED -
1F	DCHFLG4	1	D*4	DCH FLAG 4 - RESERVED -
20	DCHDAMAP	4		DEALLOCATION MAP ADDRESS
24	DCHCHMAP	4		CHANGE MAP ADDRESS
28	DCHRSV	8		RESERVED
30	DCHDATA	8		

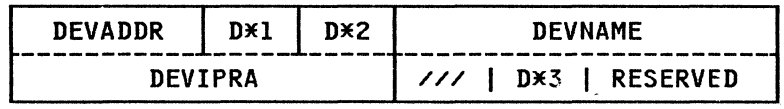
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

DCHAUX	001C	04	DCHDALLO	001C	20	DCHFLG2	001D	..	DCHPFIXL	....	30
DCHBWPTR	0004	..	DCHDAMAP	0020	..	DCHFLG3	001E	..	DCHRALLO	001C	08
DCHCACHE	001D	04	DCHDATA	0030	..	DCHFLG4	001F	..	DCHRSV	0028	..
DCHCHGD	001C	10	DCHDTSIZ	0014	..	DCHFULL	001D	80	DCHSEQBD	0018	..
DCHCHMAP	0024	..	DCHDUM	001D	10	DCHFWPTR	0000	..	DCHSHR	001D	08
DCHCHOP	001C	80	DCHDWSIZ	0008	..	DCHLHBLK	001D	20	DCHTDISP	0010	..
DCHDA	001D	40	DCHFLG1	001C	..	DCHNEW	001C	40	DCHTRUNK	000C	..

DEVSECT: DEVICE TABLE DSECT

DEVSECT describes the device information required for input/output routines. DEVSECT is a DSECT corresponding to the data in a DEVTAB entry. DEVSECT is invoked via the DEVSECT macro.



SIZE

DEVICE TABLE SIZE IN BYTES (DEVSIZE) 10

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DEVADDR	2		VIRTUAL DEVICE ADDRESS
2	DEVFLAG	1	D*1	DEVICE FLAGS
3	DEVTYPE	1	D*2	DEVICE TYPE
4	DEVNAME	4		SYMBOLIC DEVICE NAME
8	DEVIPRA	4		INTERRUPT PROCESSING ROUTINE ADDRESS
C	DEVMISC	0		MISCELLANEOUS - DEVICE DEPENDENT
C		1		RESERVED
D	DEVMODE	1	D*3	
E		2		RESERVED

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

DEVADDR	0000	..	DEVIPRA	0008	..	DEVMODE	000D	..	DEVSIZE	....	10
DEVFLAG	0002	..	DEVMISC	000C	..	DEVNAME	0004	..	DEVTYPE	0003	..

DEVTAB: DEVICE TABLE

DEVTAB contains the entries for the various devices handled by CMS (disks, tapes, reader, punch, printer, and console). DEVTAB is pointed to by V-constants in DMSIOW and DMSITI, and is also referenced indirectly by the ADEVTAB field in NUCON. DEVTAB is invoked via the DEVTAB macro.

0	CONSOLE
C	CON1ECB
10	ADISK
20	BDISK
30	CDISK
40	DDISK
50	EDISK
60	FDISK
70	GDISK
80	HDISK
90	IDISK
A0	JDISK
B0	KDISK
C0	LDISK
D0	MDISK
E0	NDISK

F0	ODISK
100	PDISK
110	QDISK
120	RDISK
130	SDISK
140	TDISK
150	UDISK
160	VDISK
170	WDISK
180	XDISK
190	YDISK
1A0	ZDISK
1B0	READER1
1C0	PUNCH1
1D0	PRINTER1
1E0	READER2

1F0	PUNCH2
200	PRINTER2
210	TAPE0
220	TAPE1
230	TAPE2
240	TAPE3
250	TAPE4
260	TAPE5
270	TAPE6
280	TAPE7

290	TAPE8
2A0	TAPE9
2B0	TAPEA
2C0	TAPEB
2D0	TAPEC
2E0	TAPED
2F0	TAPEE
300	TAPEF
310	DUMMY
320	TABEND

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CONSOLE	0		DEVICE TABLE ENTRY FOR CONSOLE
C	CON1ECB	4		CONSOLE ECB
10	ADISK	0		DEVICE TABLE ENTRY FOR ADISK
20	BDISK	0		DEVICE TABLE ENTRY FOR BDISK
30	CDISK	0		DEVICE TABLE ENTRY FOR CDISK
40	DDISK	0		DEVICE TABLE ENTRY FOR DDISK
50	EDISK	0		DEVICE TABLE ENTRY FOR EDISK
60	FDISK	0		DEVICE TABLE ENTRY FOR FDISK
70	GDISK	0		DEVICE TABLE ENTRY FOR GDISK
80	HDISK	0		DEVICE TABLE ENTRY FOR HDISK
90	IDISK	0		DEVICE TABLE ENTRY FOR IDISK
A0	JDISK	0		DEVICE TABLE ENTRY FOR JDISK
B0	KDISK	0		DEVICE TABLE ENTRY FOR KDISK
C0	LDISK	0		DEVICE TABLE ENTRY FOR LDISK
D0	MDISK	0		DEVICE TABLE ENTRY FOR MDISK
E0	NDISK	0		DEVICE TABLE ENTRY FOR NDISK
F0	ODISK	0		DEVICE TABLE ENTRY FOR ODISK

DISP	NAME	LEN	KEY	DESCRIPTION
100	PDISK	0		DEVICE TABLE ENTRY FOR PDISK
110	QDISK	0		DEVICE TABLE ENTRY FOR QDISK
120	RDISK	0		DEVICE TABLE ENTRY FOR RDISK
130	SDISK	0		DEVICE TABLE ENTRY FOR SDISK
140	TDISK	0		DEVICE TABLE ENTRY FOR TDISK
150	UDISK	0		DEVICE TABLE ENTRY FOR UDISK
160	VDISK	0		DEVICE TABLE ENTRY FOR VDISK
170	WDISK	0		DEVICE TABLE ENTRY FOR WDISK
180	XDISK	0		DEVICE TABLE ENTRY FOR XDISK
190	YDISK	0		DEVICE TABLE ENTRY FOR YDISK
1A0	ZDISK	0		DEVICE TABLE ENTRY FOR ZDISK
1B0	READER1	0		DEVICE TABLE ENTRY FOR READER1
1C0	PUNCH1	0		DEVICE TABLE ENTRY FOR PUNCH1
1D0	PRINTER1	0		DEVICE TABLE ENTRY FOR PRINTER1
1E0	READER2	0		DEVICE TABLE ENTRY FOR READER2
1F0	PUNCH2	0		DEVICE TABLE ENTRY FOR PUNCH2
200	PRINTER2	0		DEVICE TABLE ENTRY FOR PRINTER2
210	TAPE0	0		DEVICE TABLE ENTRY FOR TAPE0
220	TAPE1	0		DEVICE TABLE ENTRY FOR TAPE1
230	TAPE2	0		DEVICE TABLE ENTRY FOR TAPE2
240	TAPE3	0		DEVICE TABLE ENTRY FOR TAPE3
250	TAPE4	0		DEVICE TABLE ENTRY FOR TAPE4
260	TAPE5	0		DEVICE TABLE ENTRY FOR TAPE5
270	TAPE6	0		DEVICE TABLE ENTRY FOR TAPE6
280	TAPE7	0		DEVICE TABLE ENTRY FOR TAPE7
290	TAPE8	0		DEVICE TABLE ENTRY FOR TAPE8
2A0	TAPE9	0		DEVICE TABLE ENTRY FOR TAPE9
2B0	TAPEA	0		DEVICE TABLE ENTRY FOR TAPEA
2C0	TAPEB	0		DEVICE TABLE ENTRY FOR TAPEB
2D0	TAPEC	0		DEVICE TABLE ENTRY FOR TAPEC
2E0	TAPED	0		DEVICE TABLE ENTRY FOR TAPED
2F0	TAPEE	0		DEVICE TABLE ENTRY FOR TAPEE
300	TAPEF	0		DEVICE TABLE ENTRY FOR TAPEF
310	DUMMY	0		DEVICE TABLE ENTRY FOR DUMMY

DISP	NAME	LEN	KEY	DESCRIPTION
320	TABEND	0		

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

ADISK	0010 ..	KDISK	00B0 ..	READER2	01E0 ..	TAPEA	02B0 ..
BDISK	0020 ..	LDISK	00C0 ..	SDISK	0130 ..	TAPEB	02C0 ..
CDISK	0030 ..	MDISK	00D0 ..	TABEND	0320 ..	TAPEC	02D0 ..
CONSOLE	0000 ..	NDISK	00E0 ..	TAPE0	0210 ..	TAPED	02E0 ..
CON1ECB	000C ..	ODISK	00F0 ..	TAPE1	0220 ..	TAPEE	02F0 ..
DDISK	0040 ..	PDISK	0100 ..	TAPE2	0230 ..	TAPEF	0300 ..
DUMMY	0310 ..	PRINTER1	01D0 ..	TAPE3	0240 ..	TDISK	0140 ..
EDISK	0050 ..	PRINTER2	0200 ..	TAPE4	0250 ..	UDISK	0150 ..
FDISK	0060 ..	PUNCH1	01C0 ..	TAPE5	0260 ..	VDISK	0160 ..
GDISK	0070 ..	PUNCH2	01F0 ..	TAPE6	0270 ..	WDISK	0170 ..
HDISK	0080 ..	QDISK	0110 ..	TAPE7	0280 ..	XDISK	0180 ..
IDISK	0090 ..	RDISK	0120 ..	TAPE8	0290 ..	YDISK	0190 ..
JDISK	00A0 ..	READER1	01B0 ..	TAPE9	02A0 ..	ZDISK	01A0 ..

DIB: DISK INFORMATION BLOCK TABLE

DIB simulates the VSE disk information block. The DIBPT field of BGCOM points to the DIB. DIB is invoked via the DIB macro.

HEX DISP	NAME	LEN	KEY	DESCRIPTION
	SYSLINK DIB ENTRY			
0		7		SYSLINK DIB ENTRY CCHH000
7		2		STARTING ADDR PCIL CYLINDER
9		15		RESERVED
	SYSIN DIB ENTRY			
18		7		CURRENT ADDRESS BBCCHHR
1F		3		KEY AND DATA LENGTH KDD
22		7		END ADDRESS BBCCHHR
29		2		UPPER AND LOWER HEAD LIMIT
2B		1		MAXIMUM NUMBER OF RECORDS
2C		2		RECORD COUNT
2E		2		RESERVED
	SYSPUNCH DIB ENTRY			
30		7		CURRENT ADDRESS BBCCHHR
37		3		KEY AND DATA LENGTH KDD
3A		7		END ADDRESS BBCCHHR
41		2		UPPER AND LOWER HEAD LIMIT
43		1		MAXIMUM NUMBER OF RECORDS
44		2		RECORD COUNT
46		2		RESERVED
	SYSLST DIB ENTRY			
48		7		CURRENT ADDRESS BBCCHHR
4F		3		KEY AND DATA LENGTH KDD
52		7		END ADDRESS BBCCHHR

DISP	NAME	LEN	KEY	DESCRIPTION
59		2		UPPER AND LOWER HEAD LIMIT
5B		1		MAXIMUM NUMBER OF RECORDS
5C		2		RECORD COUNT
5E		2		RESERVED

PROCEDURE DIB ENTRY

60		7		CURRENT ADDRESS BBCCHHR
67		3		KEY AND DATA LENGTH KDD
6A		7		END ADDRESS BBCCHHR
71		2		UPPER AND LOWER HEAD LIMIT
73		1		MAXIMUM NUMBER OF RECORDS
74		2		RECORD COUNT
76		2		RESERVED

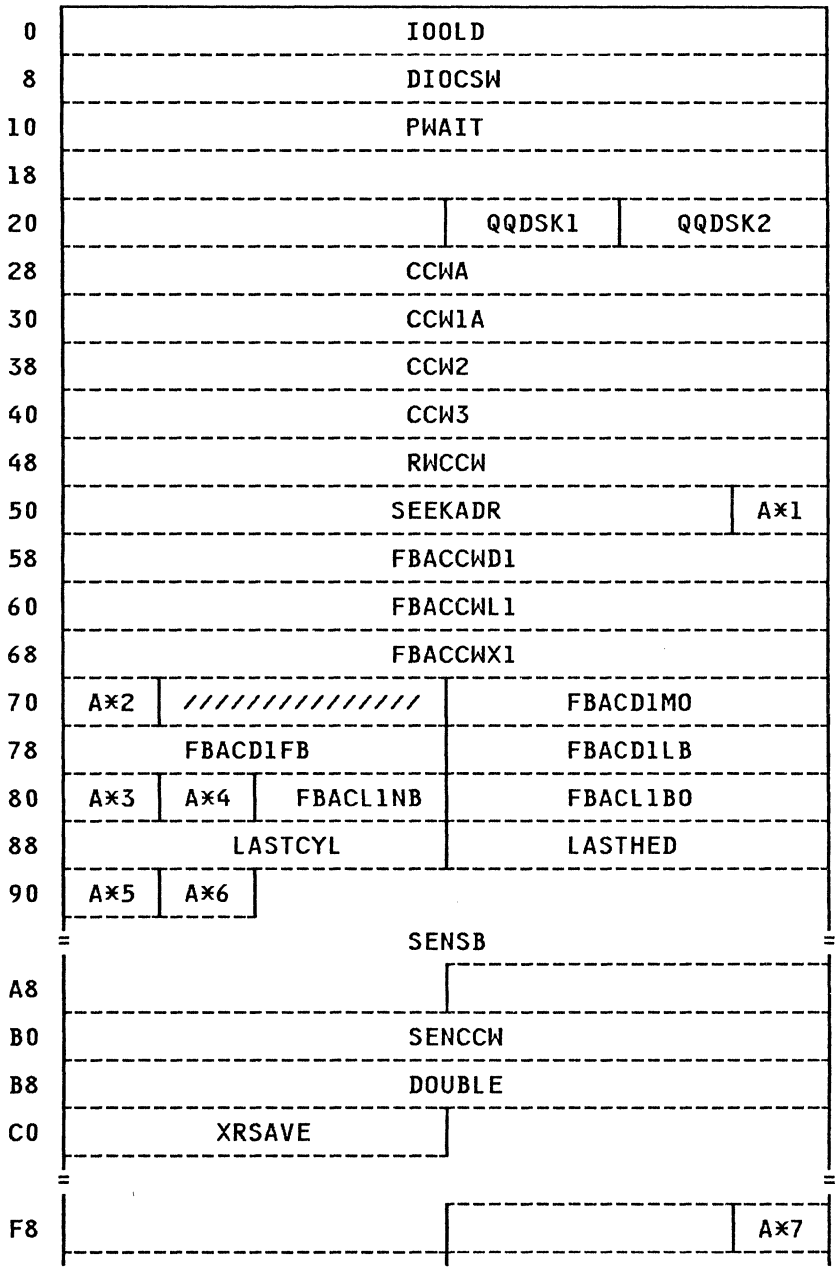
CROSS REFERENCE (Name Disp Value)

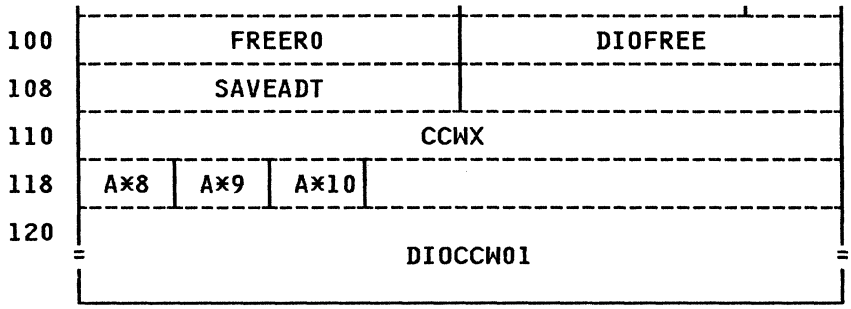
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

DIB 0000 ..

DIOSECT: DISK I/O WORK AREA

DIOSECT describes the fields used by DMSDIO as a work area when reading and writing actual blocks of data on CMS disks. DIOSECT is pointed to by a V-constant in DMSNUC, and referenced indirectly by ADIOSECT in NUCON. DIOSECT is invoked via the DIOSECT macro.





HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IOOLD	8		I/O-OLD-PSW (FROM INTERRUPT ROUTINE)
8	DIOCSW	8		CSW (FROM INTERRUPT ROUTINE)
WAIT CALLING SEQUENCE				
10	PWAIT	8		
18		4		FILLED IN TO CORRECT SYMBOLIC DISK NO.
1C		4		
20		4		
24	QQDSK1	2		TWO BYTES ALWAYS = 0
26	QQDSK2	2		2ND HALFWORD COPY OF 16TH TRACK DISK-ADDRESS
CCW CHAIN				
28	CCW1	8		SEEK
30	CCW1A	8		SEEK OR SET SECTOR
38	CCW2	8		SEARCH
40	CCW3	8		TIC BACK TO SEARCH
48	RWCCW	8		READ OR WRITE DATA
50	SEEKADR	7		SEEK/SEARCH INFORMATION (1ST 3 BYTES ARE 0)
57	SECTNUM	1	A*1	SECTOR NUMBER
FBA CCWS FOR USE IN ONE-CMS-BLK OPERATIONS				
58	FBACCWD1	8		DEFINE EXTENT OF FULL MINIDISK
60	FBACCWL1	8		LOCATE FBA BLOCK FOR NEXT OPERATION
68	FBACCWX1	8		READ A NUMBER OF FBA BLKS
70	FBACD1	1	A*2	MASK
71		3		RESERVED
74	FBACD1MO	4		MAJOR OFFSET
78	FBACD1FB	4		FIRST BLOCK OFFSET

DISP	NAME	LEN	KEY	DESCRIPTION
7C	FBACD1LB	4		LAST BLOCK OFFSET
LOCATE LIST				
80	FBACL1	1	A*3	OPERATION
81		1	A*4	AUX BYTE
82	FBACL1NB	2		NUMBER OF BLOCKS
84	FBACL1BO	4		BLOCK OFFSET
I/O INFORMATION				
88	LASTCYL	4		BECOMES 'LAST CYLINDER-NUMBER USED'
8C	LASTHED	4		BECOMES 'LAST HEAD-NUMBER USED'
90	DEVTYP	1	A*5	01 = 2311,08 = 2314,09 = 3330,
91	DIOFLAG	1	A*6	RDTK/WRTK FLAG:
Values Defined in DIOFLAG				
18	DIAGNUM			NUMBER ASSIGNED BY 'CP' FOR DIAGNOSE I/O
04	TOOBIG			BYTE-COUNT > 800
02	WRTKF			WRITING FIRST CHAIN LINK
01	QQTRK			HANDLING FIRST CHAIN LINK
92	SENSB	24		SENSE INFORMATION
B0	SENCCW	8		
B8	DOUBLE	8		(SCRATCH-AREA, FOR CVD USE ETC.)
KEEP THE FOLLOWING IN ORDER:				
C0	XRSAVE	60		REGISTERS 0-14 SAVED HERE FOR RDTK-WRTK
FC		3		FIRST 3 BYTES OF R15 ERROR-CODE
FF	ERRCODE	1	A*7	ERROR-CODE (IN R15 AT EXIT)
KEEP THE FOLLOWING TWO IN ORDER:				
100	FREER0	4		NUMBER OF DOUBLEWORDS OF FREE STORAGE (IF ANY)
104	DIOFREE	4		ADDRESS OF FREE STORAGE FOR BUFFER OR CCW'S
108	SAVEADT	4		HANDY PLACE FOR AN ADT ADDRESS
110	CCWX	8		SET SECTOR
118	DIAGRET	1	A*8	CP'S DIAGNOSE RETURN CODE IF NON-ZERO
119	IOCOMM	1	A*9	SET TO READ (06) OR WRITE (05)
11A	LASTREC	1	A*10	NUMBER (1-14) OF THE LAST RECORD PROCESS
120	DIOCCW01	1024		CCW BUILD AREA FOR LONG OPERATIONS

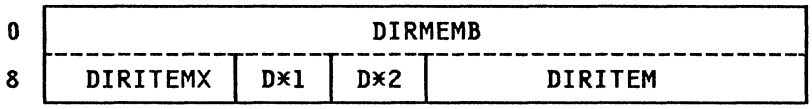
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

CC	0120	40	FBACL1	0080	..	IOOLD	0000	..	SECTNUM	0057	..
CD	0120	80	FBACL1BO	0084	..	LASTCYL	0088	..	SEEK	0120	07
DEVTYP	0090	..	FBACL1NR	0082	..	LASTHED	008C	..	SEEKADR	0050	..
DIAGNUM	0091	18	FBADEF	0120	63	LASTREC	011A	..	SENSB	0092	..
DIAGRET	0118	..	FBADWDT	0120	C0	NOP	0120	03	SENSE	0120	04
DIOCCW01	0120	..	FBADWIN	0120	40	PCIF	0120	08	SETSEC	0120	23
DIOCSW	0008	..	FBAIPL	0120	02	PWAIT	0010	..	SILI	0120	20
DIOFLAG	0091	..	FBALOC	0120	43	QQDSK1	0024	..	SKIP	0120	10
DIOFREE	0104	..	FBALRDT	0120	06	QQDSK2	0024	26	TIC	0120	08
DOUBLE	00B8	..	FBALWDT	0120	01	QQTRK	0091	01	TOOBIG	0091	04
ERRCODE	00FF	..	FBARD	0120	42	RDCONS	0120	0A	WRDATA	0120	05
FBACD1	0070	..	FBAWR	0120	41	RDDATA	0120	06	WRITE	0120	01
FBACD1FB	0078	..	FREER0	0100	..	READ	0120	02	WRITE1	0120	09
FBACD1LB	007C	..	IDA	0120	04	SAVEADT	0108	..	WRTKF	0091	02
FBACD1M0	0074	..	IOCOMM	0119	..	SEARCH	0120	31	XRSAVE	00C0	..

DIRSECT: CMS PDS DIRECTORY ENTRY

DIRSECT describes the fields of a CMS PDS directory entry. DIRSECT is invoked by the LIB macro.



SIZE

DIRECTORY ENTRY LENGTH IN BYTES (DIRENTSZ) 10

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DIRMEMB	8		MEMBER NAME
8	DIRITEMX	2		SCP 2 BYTE START ITEM NUMBER
A	DIRFLG1	1	D*1	FLAG BYTE 1
B	DIRFLG2	1	D*2	FLAG BYTE 2
	Values Defined in DIRFLG2			
80	DIRNA			NOT AN ALIAS
C	DIRITEM	4		STARTING ITEM NUMBER OF MEMBER
	Values Defined in DIRITEM			
10	DIRNEXT			

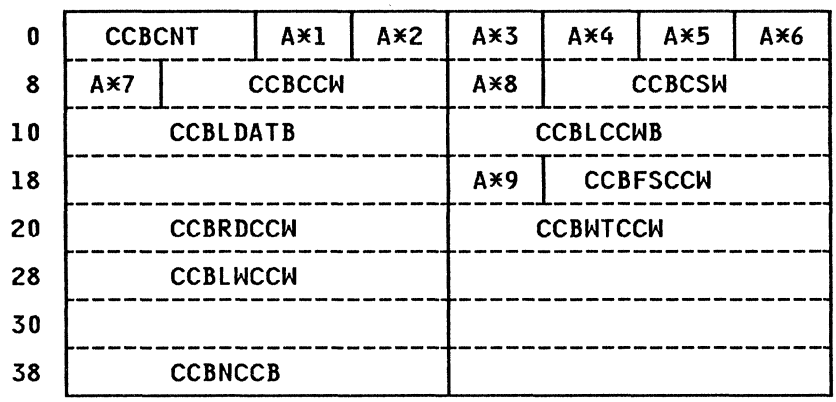
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
DIRENTSZ .... 10     DIRFLG2  000B ..     DIRITEMX 0008 ..     DIRNA    000B 80
DIRFLG1  000A ..     DIRITEM  000C ..     DIRMEMB  0000 ..     DIRNEXT  000C 10
```

DMSCCB: COMMAND CONTROL BLOCK

DMSCCB describes all fields of a VSE command control block (CCB). This DSECT is used by DMSXCP to map the CCB specified by a user for an SVC 0 (EXCP). DMSCCB passes the address of CCB to DMSXCP. DMSCCB is invoked via the DMSCCB macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CCBST			START CCB
0	CCBD			COMMAND CONTROL BLOCK
0	CCBLEN	16		MAP OF THE DOS CCB
0	CCBCNT	2		RESIDUAL COUNT
2	CCBERMAP	4		4 BYTES USED TO CHECK ERRORS
2	CCBCOM1	1	A*1	COMMUNICATIONS BYTE NUMBER 1

Values Defined in CCBCOM1

80	CCBWAIT	TRAFFIC BIT(SET AT CE)
40	CCBEOF	END-OF-FILE
20	CCBIOERR	UNRECOVERABLE I/O ERROR
10	CCBERROK	ACCEPT UNRECOVERABLE ERROR
08	CCBRDC	RETURN DATA CHECKS
04	CCBPDE	POST AT DEVICE END
02	CCBDCV	RETURN DATA CHECK RD/CHK
01	CCBUERR	USER ERROR ROUTINE

3	CCBCOM2	1	A*2	COMMUNICATIONS BYTE NUMBER 2

DISP	NAME	LEN	KEY	DESCRIPTION
	Values Defined in CCBCOM2			
80	CCBDCCNT			DATA CHECK IN COUNT AREA
40	CCBTRKOV			TRACK OVERRUN
20	CCBEOC			END-OF-CYLINDER
10	CCBDC			DATA CHECK
08	CCBNOREC			NO-RECORD-FOUND
04	CCBRETRY			RETRY NO RECORD FOUND
02	CCBVER			VERIFY ERROR
01	CCBCC			COMMAND CHAIN(RETRY)
4	CCBCSW1	1	A*3	CSW STATUS BIT NUMBER 1
	Values Defined in CCBCSW1			
80	CCBATTN			ATTENTION
40	CCBSTMOD			STATUS MODIFIER
20	CCBCUE			CONTROL UNIT END
10	CCBBUSY			BUSY
08	CCBCE			CHANNEL END
04	CCBDE			DEVICE END
02	CCBUC			UNIT CHECK
01	CCBUE			UNIT EXCEPTION
5	CCBCSW2	1	A*4	CSW STATUS BIT NUMBER 2
	Values Defined in CCBCSW2			
80	CCBPCI			PROGRAM-CONTROLLED INTERRUPT
40	CCBILEN			INCORRECT LENGTH
20	CCBPROGM			PROGRAM CHECK
10	CCBPROT			PROTECTION CHECK
08	CCBCHAND			CHANNEL DATA CHECK
04	CCBCHANC			CHANNEL CONTROL CHECK
02	CCBICTRL			INTERFACE CONTROL CHECK
01	CCBCHAIN			CHAINING CHECK
6	CCBSYMU	2		SYMBOLIC UNIT(SYSUN)
6	CCBSUCLS	1	A*5	U - LUB CLASS
7	CCBSUNUM	1	A*6	N - LUB NUMBER WITHIN CLASS
8	CCBLIOBS	1	A*7	RESERVED FOR LIOBS
9	CCBCCW	3		POINTER TO START OF CHANNEL PROGRAM
C	CCBCOM3	1	A*8	COMMUNICATION BYTE NUMBER 3
	Values Defined in CCBCOM3			
40	CCBAPEND			APPENDAGE EXIT AT INTERRUPT
D	CCBCSW	3		POINT TO CSW OR POINT APPENDAGE RETURN
10	CCBLDATB	4		ADDRESS OF LAST DATA BLOCK
14	CCBLCCWB	4		ADDRESS OF LAST CCW BLOCK
18		4		AVAILABLE

DISP	NAME	LEN	KEY	DESCRIPTION
1C	CCBUFLGS	1	A*9	I/O MANAGER CCB FLAGS

Values Defined in CCBUFLGS

80	CCBUEAIC	ERROR ANALYSIS IN CONTROL
40	CCBUEAC	ERROR ANALYSIS COMPLETE
20	CCBURDCW	READ CCW ACTIVE
10	CCBRPS	RPS CHAN PGM CANDIDATE

1D	CCBFSCCW	3	SAVE AREA FOR FIRST CCW ADDRESS
20	CCBRDCCW	4	ADDRESS OF FIRST READ CCW
24	CCBWTCCW	4	ADDRESS OF FIRST WRITE CCW
28	CCBLWCCW	4	ADDRESS OF THE LAST WRITE CCW
2C		12	AVAILABLE

THIS CHAIN FIELD MUST HAVE SAME DISPLACEMENT AS FCBCHAIN IN FCDB AND BKPFSTBK IN BKPHD.

38	CCBNCCB	4	ADDRESS OF NEXT CCB BLOCK
3C		4	AVAILABLE

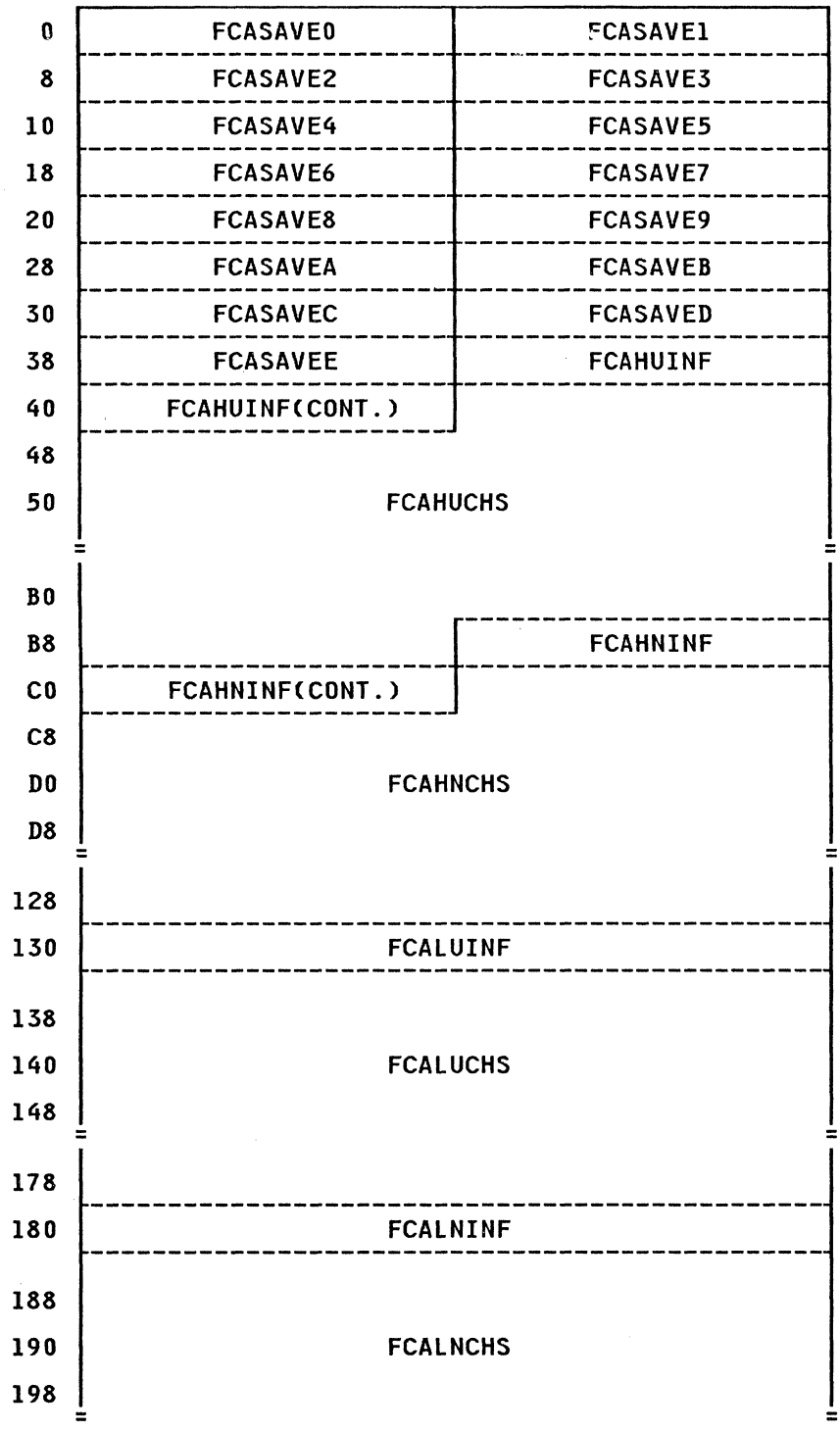
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

CCBAPEND	000C	40	CCBCUE	0004	20	CCBLDATB	0010	..	CCBSTMOD	0004	40
CCBATTN	0004	80	CCBD	0000	00	CCBLEN	0000	..	CCBSUCLS	0006	..
CCBBUSY	0004	10	CCBDC	0003	10	CCBLIOBS	0008	..	CCBSUNUM	0007	..
CCBCC	0003	01	CCBDCCNT	0003	80	CCBLWCCW	0028	..	CCBSYMU	0006	..
CCBCCW	0009	..	CCBDCV	0002	02	CCBNCCB	0038	..	CCBTRKOV	0003	40
CCBCE	0004	08	CCBDE	0004	04	CCBNOREC	0003	08	CCBUC	0004	02
CCBCHAIN	0005	01	CCBEOC	0003	20	CCBPCI	0005	80	CCBUE	0004	01
CCBCHANC	0005	04	CCBEOF	0002	40	CCBPDE	0002	04	CCBUEAC	001C	40
CCBCHAND	0005	08	CCBERMAP	0002	..	CCBPROGM	0005	20	CCBUEAIC	001C	80
CCBCNT	0000	..	CCBERROK	0002	10	CCBPROT	0005	10	CCBUERR	0002	01
CCBCOM1	0002	..	CCBFSCCW	001D	..	CCBRDC	0002	08	CCBUFLGS	001C	..
CCBCOM2	0003	..	CCBICTRL	0005	02	CCBRDCCW	0020	..	CCBURDCW	001C	20
CCBCOM3	000C	..	CCBILEN	0005	40	CCBRETRY	0003	04	CCBVER	0003	02
CCBCSW	000D	..	CCBIOERR	0002	20	CCBRPS	001C	10	CCBWAIT	0002	80
CCBCSW1	0004	..	CCBLCCWB	0014	..	CCBST	0000	00	CCBWTCCW	0024	..
CCBCSW2	0005	..									

DMSFCACH: CACHE USED BY DMSFRE FOR FREE POINTERS

DMSCACH contains free element pointers for storage management.



1C8

SIZE

LENGTH OF FREE CACHE IN BYTES (FCALEN) 1D0
LENGTH OF FREE CACHE IN DOUBLEWORDS (FCALEND) 3A

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	FCASAVE	0		REGISTER SAVE AREA FOR CALLS TO THE CACHE HANDLER
0	FCASAVE0	4		
4	FCASAVE1	4		
8	FCASAVE2	4		
C	FCASAVE3	4		
10	FCASAVE4	4		
14	FCASAVE5	4		
18	FCASAVE6	4		
1C	FCASAVE7	4		
20	FCASAVE8	4		
24	FCASAVE9	4		
28	FCASAVEA	4		
2C	FCASAVEB	4		
30	FCASAVEC	4		
34	FCASAVED	4		
38	FCASAVEE	4		
3C	FCAHIGHU	0		CACHE FOR FREE POINTERS-HIGH USER
3C	FCAHUINF	8		INFORMATION FIELD FOR HIGH USER
44	FCAHUCHS	120		FIRST CACHE ELEMENT FOR HIGH USER
BC	FCAHIGHN	0		CACHE FREE POINTERS-HIGH NUCLEUS
BC	FCAHNINF	8		INFORMATION FIELD FOR HIGH NUCLEUS
C4	FCAHNCHS	108		FIRST CACHE ELEMENT FOR HIGH NUCLEUS
130	FCALOWU	0		CACHE FOR FREE POINTERS-LOW USER
130	FCALUINF	8		INFORMATION FIELD FOR LOW USER
138	FCALUCHS	72		FIRST CACHE ELEMENT FOR LOW USER
180	FCALOWN	0		CACHE FREE POINTERS-LOW NUCLEUS
180	FCALNINF	8		INFORMATION FIELD FOR LOW NUCLEUS

DISP	NAME	LEN	KEY	DESCRIPTION
188	FCALNCHS	72		FIRST CACHE ELEMENT FOR LOW NUCLEUS

Values Defined in DMSFCACH

A	FCAHUNUM	NUMBER OF FREE POINTERS IN CACHE FOR HIGH USER STORAGE
9	FCAHNNUM	NUMBER OF FREE POINTERS IN CACHE FOR HIGH NUCLEUS STORAGE
6	FCALUNUM	NUMBER OF FREE POINTERS IN CACHE FOR LOW USER STORAGE
6	FCALNNUM	NUMBER OF FREE POINTERS IN CACHE FOR LOW NUCLEUS STORAGE

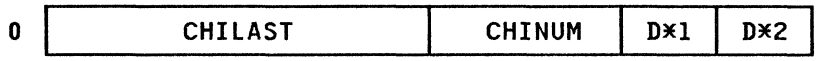
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

FCAHIGHN 00BC ..	FCALEND 3A	FCASAVE 0000 ..	FCASAVE2 0008 ..
FCAHIGHU 003C ..	FCALNCHS 0188 ..	FCASAVEA 0000 ..	FCASAVE3 000C ..
FCAHNCHS 00C4 ..	FCALNINF 0180 ..	FCASAVEA 0028 ..	FCASAVE4 0010 ..
FCAHNINF 00BC ..	FCALNNUM 06	FCASAVEB 002C ..	FCASAVE5 0014 ..
FCAHNNUM 09	FCALOWN 0180 ..	FCASAVEC 0030 ..	FCASAVE6 0018 ..
FCAHUCHS 0044 ..	FCALOWU 0130 ..	FCASAVED 0034 ..	FCASAVE7 001C ..
FCAHUINF 003C ..	FCALUCHS 0138 ..	FCASAVEE 0038 ..	FCASAVE8 0020 ..
FCAHUNUM 0A	FCALUINF 0130 ..	FCASAVE0 0000 ..	FCASAVE9 0024 ..
FCALEN 1D0	FCALUNUM 06	FCASAVE1 0004 ..	

DMSFCHIN:

DMSFCHIN is a dsect which contains information describing each cach.



SIZE

SIZE OF ANCHOR TABLE IN BYTES (CHILEN) 8
SIZE OF ANCHOR TABLE IN DOUBLEWORDS (CHILEND) 1

HEX DISP	NAME	LEN	KEY	DESCRIPTION
BEGINNING OF AN ANCHOR TABLE				
0	CHILAST	4		LAST FBD IN THE CACHE OF FREE POINTERS
4	CHINUM	2		NUMBER OF FREE POINTERS IN CACHE
6	CHIFLAG	1	D*1	FLAG FIELD
Values Defined in CHIFLAG				
80	CHIREL			ON IF FBD IS TO BE RELEASED
7		1	D*2	RESERVED

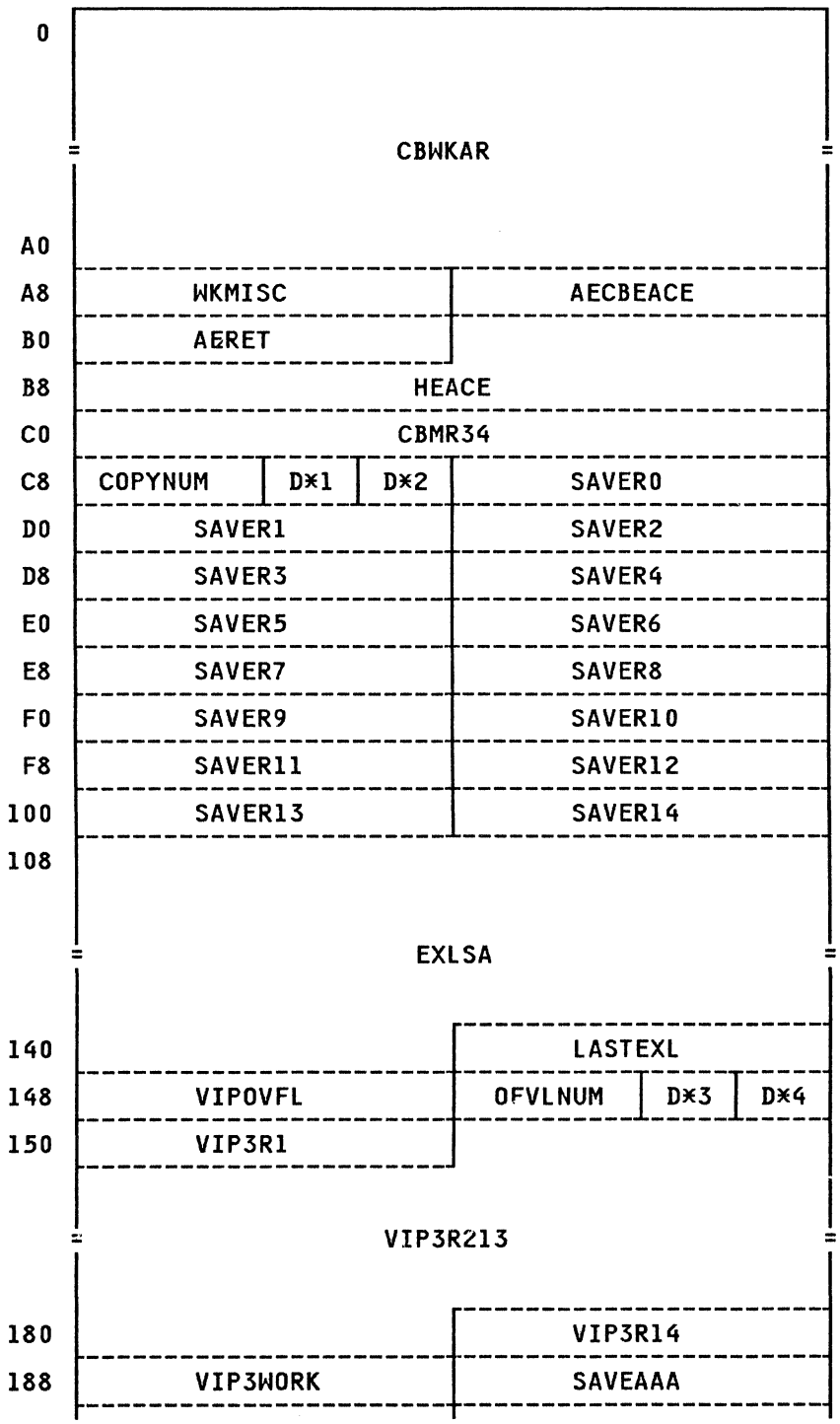
CROSS REFERENCE (Name Disp Value)

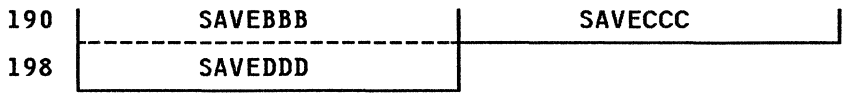
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

CHIFLAG	0006 ..	CHILEN	 08	CHILEND	 01	CHINUM	0004 ..
CHILAST	0000 ..					CHIREL	0006 80

DMSVIPWK:

Work area used by DMSVIP, DMSVIB and DMSVSR. DMSVIPWK is pointed to by AVIPWORK in NUCON.





SIZE

LENGTH OF DMSVIPWK (DMSVIPSZ) 19C

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CBWKAR	168		DOS VSAM CNTL BLK BUILD AREA
A8	WKMISC	4		WORK SPACE
AC	CBMACAR	0		CNTL BLK MANIP MACRO WK AREA
AC	AECBEACE	4		SAVED ECB EACE ADDRESS
B0	AERET	4		TESTCB--ADDR OF USER ERET RTN
B4	HEACE	0		HEADER ACE SAVE AREA
C0	CBMR34	8		SAVE FOR WORK REGS
C8	COPYNUM	2		SAVE FOR NUMBER OF COPIES
CA	CBMACFLG	1	D*1	FLAG BYTE

Values Defined in CBMACFLG

80	CCLOW	PSW CONDITION CODE = 1
40	CCEQUAL	PSW CONDITION CODE = 0
20	CCHIGH	PSW CONDITION CODE = 2
08	WORKAREA	USER HAS PROVIDED WORKAREA
04	ERET	USER PRV'D ERET RTN(TESTCB)

CC		1	D*2	UNUSED
CC	VIPRSAVE	0		SAVE AREA FOR CALLER'S REGS
CC	SAVER0	4		
D0	SAVER1	4		
D4	SAVER2	4		
D8	SAVER3	4		
DC	SAVER4	4		
E0	SAVER5	4		
E4	SAVER6	4		
E8	SAVER7	4		
EC	SAVER8	4		
F0	SAVER9	4		
F4	SAVER10	4		
F8	SAVER11	4		
FC	SAVER12	4		
100	SAVER13	4		

DISP	NAME	LEN	KEY	DESCRIPTION
104	SAVER14	4		
108	EXLSA	60		PRIMARY EXLST ADDR SAVE AREA
144	LASTEXL	4		LAST ADDRESS SAVE SLOT
148	VIPOVFL	4		PTR TO 1ST OVERFLOW BLOCK
14C	OVFLNUM	2		TOT NUM OF OVFL BLKS ALLOC
14E	VIPINDC	1	D*3	INDICATOR BYTE

Values Defined in VIPINDC

80	SETEODAD	EODAD RTN SET INACTIVE
40	SETSYNAD	SYNAD RTN SET INACTIVE
40	OPTDUMP	'OPTION DUMP' IND IN BGCOM
20	SETLERAD	LERAD RTN SET INACTIVE
03	EOJEXIT	TAKE EOJ EXIT
02	MRECL	MODCB RPL RECLEN PROCESSING
01	SRECL	SHOWCB RPL RECLEN PROCESSING

14F	RTNCDSV	1	D*4	CK PROC--RPL RET CODE SAVE
150	VIP3REGS	0		
150	VIP3R1	4		
154	VIP3R213	48		
184	VIP3R14	4		
188	VIP3WORK	4		
18C	SAVEAAA	4		SAVE REG3 FOR BLDEXLSA
190	SAVEBBB	4		NOT USED YET
194	SAVECCC	4		NOT USED YET
198	SAVEDDD	4		NOT USED YET
19C	VIPWKEND	0		END OF VIPWORK

CROSS REFERENCE (Name Disp Value)

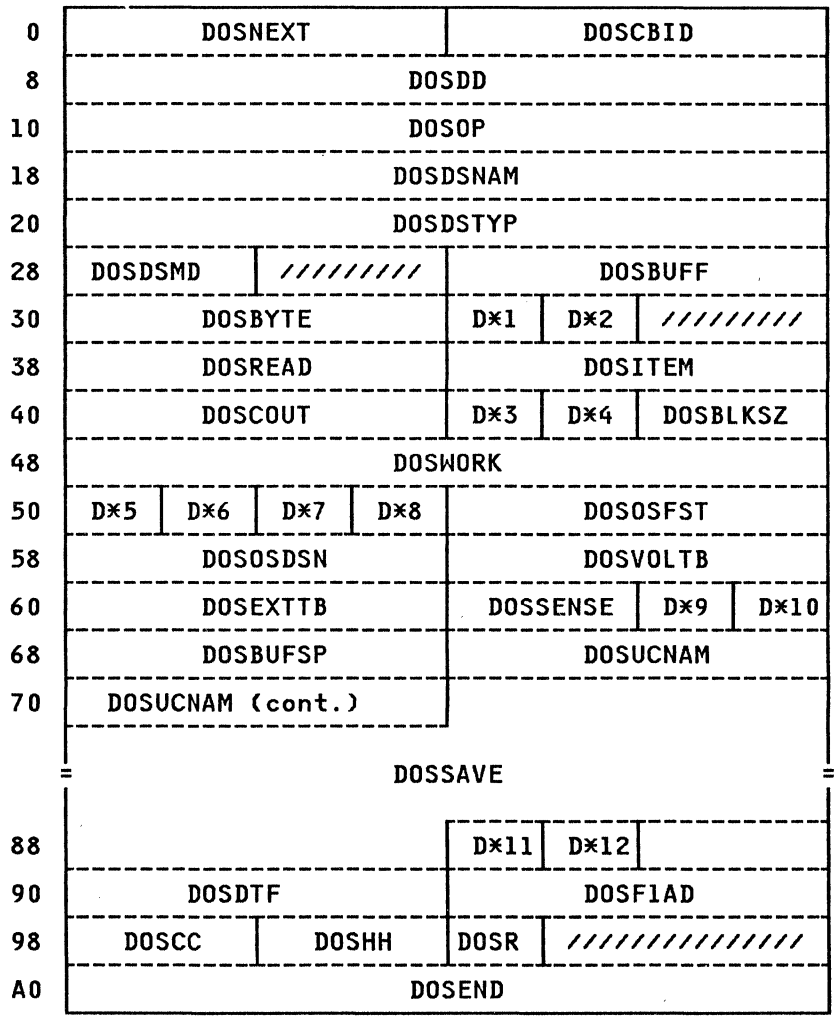
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

AECBEACE	00AC	..	HEACE	00B4	..	SAVER10	00F4	..	SETLERAD	014E	20
AERET	00B0	..	LASTEXL	0144	..	SAVER11	00F8	..	SETSYNAD	014E	40
CBMACAR	00AC	..	LCBMAC	....	20	SAVER12	00FC	..	SRECL	014E	01
CBMACFLG	00CA	..	LCBWK	....	AC	SAVER13	0100	..	VIPINDC	014E	..
CBMR34	00C0	..	MRECL	014E	02	SAVER14	0104	..	VIPOVFL	0148	..
CBWKAR	0000	..	OPTDUMP	014E	40	SAVER2	00D4	..	VIPRSAVE	00CC	..
CCEQUAL	00CA	40	OVFLNUM	014C	..	SAVER3	00D8	..	VIPWKEND	019C	..
CCHIGH	00CA	20	RTNCDSV	014F	..	SAVER4	00DC	..	VIP3REGS	0150	..
CCLOW	00CA	80	SAVEAAA	018C	..	SAVER5	00E0	..	VIP3R1	0150	..
COPYNUM	00C8	..	SAVEBBB	0190	..	SAVER6	00E4	..	VIP3R14	0184	..
DMSVIPSZ	....	19C	SAVECCC	0194	..	SAVER7	00E8	..	VIP3R213	0154	..
EOJEXIT	014E	03	SAVEDDD	0198	..	SAVER8	00EC	..	VIP3WORK	0188	..
ERET	00CA	04	SAVER0	00CC	..	SAVER9	00F0	..	WKMISC	00A8	..
EXLSA	0108	..	SAVER1	00D0	..	SETEODAD	014E	80	WORKAREA	00CA	08

DOSSECT: VSE SIMULATION CONTROL BLOCK

DOSSECT simulates the CMS file control block (FCB) in the CMS/DOS environment. DOSSECT is invoked by the DOSCB macro.

The DOS simulation control blocks are chained together. The DOSFIRST field in NUCON points to the first DOSCB in the chain, or if no chain exists, contains zero.



SIZE

DOSSECT SIZE IN DOUBLEWORDS (DOSENSIZ) 14

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DOSINIT	1		DOSCB FLAG BYTE
	Values Defined in DOSINIT			
40	DOSOS			CREATED BY 'OS' USER
20	DOSDOS			DEFINED FOR NON-CMS DISK
10	DOSCMS			DEFINED FOR CMS DISK
08	DOSDDCAT			USER CATALOG DATASET
04	DOSPERM			PERMANENT CONTROL BLOCK
02	DOSJCAT			SEARCH VSAM JOB CATALOG
01	DOSUCAT			SEARCH VSAM USER CATALOG
0	DOSNEXT	4		AL3 (NEXT DOSCB)
4	DOSCBID	4		'DLBL' TO DISTINGUISH FROM CMSCB
8	DOSDD	8		DATA DEFINITION NAME
10	DOSOP	8		CMS OPERATION
18	DOSTAPID			TAPE IDENTIFICATION
18	DOSDSNAM	8		DATASET NAME
20	DOSDSTYP	8		DATASET TYPE
28	DOSDSMD	2		DATASET MODE
2A		2		RESERVED
2C	DOSBUFF	4		A (INPUT/OUTPUT BUFFER)
30	DOSBYTE	4		SIZE OF BUFFER (DATA COUNT)
34	DOSFORM	1	D*1	FILE FORMAT: FIXED/VARIABLE
35	DOSEPL	1	D*2	EXTENDED PLIST
36		2		RESERVED
38	DOSREAD	4		N'BYTES ACTUALLY READ
3C	DOSITEM	4		ITEM (RECORD) NUMBER
40	DOSCOUT	4		RECORDS PER CMS PHYSICAL BLOCK
44	DOSDEV	1	D*3	DEVICE TYPE CODE
	Values Defined in DOSDEV			
14	DOSDSK			DISK
00	DOSDUM			DUMMY DEVICE
45	DOSTAPMD	1	D*4	TAPE MODESET SAVE
46	DOSBLKSZ	2		BLOCK SIZE
48	DOSWORK	8		WORK AREA
50	DOSYSXXX	2		LOGICAL UNIT FOR CMS/DOS
50	DOSSYS	1	D*5	SYS/PROG UNIT: X'00' =SYS, X'01'=PROG
51	DOSXXX	1	D*6	NUMBER FROM 000-255 ASSOC WITH UNIT

DISP	NAME	LEN	KEY	DESCRIPTION
52	DOSEXT	1	D*7	NUMBER DOS EXTENTS LEFT TO PROCESS
53	DOSEXTCT	1	D*8	CURRENT DOS EXTENT
54	DOSOSFST	4		POINTER TO OS FST
58	DOSOSDSN	4		POINTER TO OS DSNAME BLOCK
5C	DOSVOLTB	4		A(VOLUME ID TABLE)-VSAM MULTIVOL DATASET
60	DOSEXTTB	4		A(EXTENT TABLE) FOR VSAM DATASPACE
64	DOSSENSE	2		I/O SENSE DATA
66	DOSVOLNO	1	D*9	NUMBER VOLUMES (ENTRIES IN DOSVOLTB)
67	DOSEXTNO	1	D*10	NUMBER EXTENTS (ENTRIES IN DOSEXTTB)
68	DOSBUFSP	4		SIZE OF VSAM I/O BUFFER(S)
6C	DOSUCNAM	8		VSAM USER CATALOG DDNAME
74	DOSSAVE	24		TEMPORARY SAVE FOR RE-ENTRANT CODE
8C	DOSEXTCX	1	D*11	CURRENT EXTENT (USED BY DMSXCP)
8D	DOSTYPE	1	D*12	DATASET TYPE (SAM=S, VSAM=A)
90	DOSDTF	4		POINTER TO DTF
94	DOSF1AD	4		POINTER TO F1 LABEL
98	DOSCCHHR			DOS CCHHR
98	DOSCC	2		DOS CC - CYLINDER
9A	DOSHH	2		DOS HH - TRACK
9C	DOSR	1		DOS R - RECORD
9D		3		RESERVED
A0	DOSEND			END ADDRESS OF THIS BLOCK

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

DOSBLKSZ	0046 ..	DOSDSMD	0028 ..	DOSF1AD	0094 ..	DOSSAVE	0074 ..
DOSBUFF	002C ..	DOSDSNAM	0018 ..	DOSHH	009A ..	DOSSENSE	0064 ..
DOSBUFSP	0068 ..	DOSDSTYP	0020 ..	DOSINIT	0000 ..	DOSSYS	0050 ..
DOSBYTE	0030 ..	DOSDTF	0090 ..	DOSITEM	003C ..	DOSTAPID	0018 ..
DOSCBID	0004 ..	DOSDUM	0044 00	DOSJCAT	0000 02	DOSTAPMD	0045 ..
DOSCC	0098 ..	DOSEND	00A0 ..	DOSNEXT	0000 ..	DOSTYPE	008D ..
DOSCCHHR	0094 98	DOSENSIZ	 14	DOSOP	0010 ..	DOSUCAT	0000 01
DOSCMS	0000 10	DOSEPL	0035 ..	DOSOS	0000 40	DOSUCNAM	006C ..
DOSCOUT	0040 ..	DOSEXT	0052 ..	DOSOSDSN	0058 ..	DOSVOLNO	0066 ..
DOSDD	0008 ..	DOSEXTCT	0053 ..	DOSOSFST	0054 ..	DOSVOLTB	005C ..
DOSDDCAT	0000 08	DOSEXTCX	008C ..	DOSPERM	0000 04	DOSWORK	0048 ..
DOSDEV	0044 ..	DOSEXTNO	0067 ..	DOSR	009C ..	DOSXXX	0051 ..
DOSDOS	0000 20	DOSEXTTB	0060 ..	DOSREAD	0038 ..	DOSYSXXX	0050 ..
DOSDSK	0044 14	DOSFORM	0034 ..				

DTFSD: OPEN DTF MAP

DTFSD describes fields within the DTF for sequential disk files and is used in the CMS/DOS environment. DTFSD is invoked by the DTFSD macro.

0	DTFCOUNT		DTFTRANS		DTFCSW		D*1	DTFLU
8	D*2	DTFCCW			D*3	D*4		
10	D*5	DTFLGMOD			D*6	D*7	DTFNAME	
18	DTFNAME (cont.)					D*8	D*9	D*10
20	D*11	D*12	D*13	D*14	D*15	D*16	D*17	D*18
28	D*19	D*20	D*21	D*22	D*23	DTFIOA1		
30	DTFULADR				DTFLHLIM		DTFULPBN	
38	(cont.)		D*24	D*25	D*26	D*27	D*28	D*29
40	D*30	D*31	DTFRECSZ		D*32	DTFWERAD		
48	D*33	D*34	DTFBLKSZ		D*35		D*36	D*37
50	D*38	D*39	DTFCPDTL		D*40	D*41	D*42	D*43
58	DTFAVAIL				DTFLOGRS			
60	DTFIEND				D*44	DTFDERAD		
68	D*45	D*46						
70	= D*47 =							
A0	D*48	DTFFLEOX			D*49	DTFULEOX		
A8	D*50					DTFVLEOX		
B0	DTFVIRLN				DTFVUPBN			
B8	D*51	DTFCFEOX			DTFVULBL	D*52		
C0	D*52 (continued)							
C8	DTFVORLN				DTFVOSRR			
D0	D*53	D*54			D*55			
D8	DTFVURLN				D*56	D*57	D*58	D*59
E0	D*60				DTFVUCI1			
E8	DTFVULB1	D*61			D*62	D*63	D*64	D*65

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DTFCCB			CCB
0	DTFCOUNT	2		CCB-COUNT
2	DTFTRANS	2		CCB-TRANSMISSION INFORMATION
	Values Defined in DTFTRANS			
80	DTFTRAF			CCB-TRAFFIC BIT
80	DTFDCH1			DASD DATA CHECK
40	DTFEOF			CCB-END OF FILE
20	DTFUNRC			CCB-UNRECOVERED I/O ERROR
10	DTFACPT			CCB-ACCEPT UNRECOVERED ERROR
10	DTFDCH2			DASD DATA CHECK
04	DTFNRCF			NO RECORD FOUND FOR DASD
02	DTFVERR			DASD VERIFY ERROR
4	DTFCSW	2		CCB-CSW STATUS BITS
	Values Defined in DTFCSW			
40	DTFINCL			INCORRECT LENGTH SPECIFICATION
01	DTFUE			CCB-UNIT EXCEPTION
6	DTFTYPLU			CCB-TYPE/LOGICAL UNIT
6	DTFTYPC	1	D*1	CCB-TYPE CODE
	Values Defined in DTFTYPC			
01	DTFPLU			1=PROG LOG UNIT
7	DTFLU	1		CCB-LOGICAL UNIT
8		1	D*2	RESERVED FOR LIOCS
8	DTFCCWA			WORD WITH CCW POINTER
9	DTFCCW	3		CCB-CCW ADDRESS
C		1	D*3	RESERVED FOR PIOCS
D		3	D*4	CCB-CCW ADDRESS IN CSW
10	DTFLGMDA			WORD WITH LOGIC MODULE ADDRESS
10	DTFFLG1	1	D*5	DTF FLAGS
	Values Defined in DTFFLG1			
80	DTFDQEXT			DEQUE OLD VOL XTNTS
80	DTFDAULI			1=DA PH TRL LABELS 0=DA PH HDR LABELS
40	DTFSPECL			SPECIAL SYSTEM OPEN
20	DTFIGNOP			COBOL IGN OPTION
10	DTFBLHLD			BLOCK HOLD OPTION SPECIFIED
04	DTFTRLBL			PROC TRAILER LBL-CLOSE
02	DTFSPAND			SPANNED PROCESSING
01	DTFEOEXT			COBOL END-OF-EXTENT
11	DTFLGMOD	3		LOGIC MOD ADDRESS
14	DTFTYPE	1	D*6	DTF TYPE

DISP	NAME	LEN	KEY	DESCRIPTION
15	DTFFLG2	1	D*7	DTF FLAGS

Values Defined in DTFFLG2

80	DTFDAOUT	1=DA OUTPUT, 0=DA INPUT
40	DTFBLKFL	BLOCKED FILE
40	DTFWKDLT	DELETE WORKFILE
40	DTFDAVER	DTFDA VERIFY OPTION
20	DTFWRKFL	WORKFILE
20	DTFDASCH	DTFDA SRCHM OPTION
10	DTFWORKA	WORKA = YES SPECIFIED
10	DTFWKPTO	1 = POINT OPEN
10	DTFDAAFT	DTFDA AFTER = YES SPECIFIED
08	DTFVER2	VERSION 2 DTF
04	DTFOPEN	1 = OPEN, 0 = CLOSED
04	DTFDAUND	DTFDA UNDEFINED FORMAT
02	DTFINPUT	1 = INPUT, 0 = OUTPUT
01	DTFUSRLB	USER LABELS SPECIFIED

16	DTFNAME	7		DTF NAME
1D	DTFDEVTP	1	D*8	DEVICE TYPE
1E	DTFF1ADD			BCCHHR FMT1 ADDRESS
1E	DTFWTKCP			WORKFILE TRCK CAPACITY
1E	DTFDAFSU			DTFDA 1ST SYM UNIT
1E	DTFPHEOF			EOF INDICATOR FOR DTFPH
1E	DTFWKTKC	1	D*9	WORKFILE FIRST TRACK CAPACITY BYTE
1F		1	D*10	UNUSED
20	DTFF1ADR		D*11	FMT1 LABEL ADDRESS IN VTOC

Values Defined in DTFF1ADR

40	DTFDARPS	DTFDA INDICATES THAT DEVICE SUPPORTS RPS
20	DTFPHMV3	VERSION 3 INDICATOR DTFPH MOUNTED = ALL
01	DTFDAXTN	DTFDA INDICATES THAT DTF HAS BEEN EXTENDED FOR THE REENTRANT DAM LOGICMODS

21	DTFDAULR			ADDRESS OF USER LABEL ROUTINE
21	DTFIDXSQ	1	D*12	EXTENT SEQUENTIAL NUMBER IN D/X
22	DTFIF1SQ	1	D*13	EXTENT SEQUENTIAL NUMBER IN F1
23	DTFFMT1R	1	D*14	FMT1 R OF CKD CCHHR
24	DTFDAXXR			ADDRESS OF DA XTNT EXIT INFORMATION RETURNED
24	DTFVOLNO			VOLUME SEQUENCE NUMBER
24	DTFWKSEQ	1	D*15	EXTNT SEQUENTIAL NO-WKFILE
25	DTFWKOCF	1	D*16	WORKFILE OPN COM FIELD

Values Defined in DTFWKOCF

40	DTFWKRPS	INDICATOR DEVICE SUPPORTS RPS
20	DTFWKV3	VERSION 3 INDICATOR WORKFILE
10	DTFWKXTF	INDIC ALL EXTENTS PROCESSED
08	DTFWKNWV	EXTENT ON NEW VOLUME
04	DTFWKFID	OK FOR = FILE ID
02	DTFWKXTD	AN EXTENT WAS OPENED

DISP	NAME	LEN	KEY	DESCRIPTION
26	DTFFLG3	1	D*17	DTF FLAGS
	Values Defined in DTFFLG3			
80	DTFNOEXT			INPUT - NO MORE XTNTS OUTPUT-NO MORE XTNTS
40	DTFUPDAT			INPUT - UPDATE FILE
40	DTFOXTCL			OUTPUT - XTNT NEEDED AT CLOSE TIME
20	DTFPRTLB			INPUT - PROCESS TRL LABEL
				OUTPUT - PROCESS TRL LABEL
10	DTFUEOF			INPUT - EXIT TO USERS EOF ROUTINE
10	DTFOHDRL			OUTPUT - PROCESS HDR LABEL
08	DTFNEWVL			INPUT - EXTENT ON NEW VOLUME
				OUTPUT - EXTENT ON NEW VOLUME
04	DTFIRTCL			INPUT - RETURN TO CLOSE
04	DTF1052			OUTPUT - XTNT VIA CONSOLE
02	DTFIHDRL			INPUT - PROCESS HDR LABEL
02	DTFTLCL			OUTPUT - PROCESS TRAILER LABELS AT CLOSE
01	DTFDUMEX			INPUT - DUMMY EXTENTS
				OUTPUT - UNREF FOR FBA
27	DTFODXSQ	1	D*18	DTF FLAGS-IF OUTPUT-SEQUENTIAL NUMBER OF CURRENT EXTENT OPENED
	Values Defined in DTFODXSQ			
80	DTFEXBYP			INPUT - XTNT BYPASSED BEFORE FILE OPENED
40	DTFFEOV			INPUT - FEOV ISSUED
20	DTFLSTVL			INPUT - LAST VOLUME
28	DTFFLNML			FILENAME.L
28	DTFSNLEO			SEQUENTIAL NUMBER OF LAST EXTENT OPENED
28	DTFDARTA	1	D*19	DISPLACEMENT TO DTFDA RELATIVE TRACK ADDRESS TABLE
29	DTFULRTN			ADDRESS OF USER LABEL RETURNED
29		1	D*20	UNREFERENCED
2A	DTFCPDIF	1	D*21	CP DI FLAGS
	Values Defined in DTFCPDIF			
40	DTFRPSXC			RPS CP/DI EXTENSION CREATED
01	DTFRPSXS			RPS CP/DI SUPPORTED
2B		1	D*22	UNREFERENCED
2C	DTFFLG5	1	D*23	DTF FLAGS
	Values Defined in DTFFLG5			
80	DTFCPIN			INPUT FILE FOR DTFCP
40	DTFSDRPS			INDIC DEVICE SUPPORTS RPS
20	DTFCPFP			FIRST PASS INDICATOR FOR DTF CP
20	DTFPHSV3			VERSION 3 INDICATOR PH SEQUENTIAL
10	DTFCP2I			TWO IO AREAS FOR DTFCP
10	DTFVAROU			VARIABLE OUTPUT FILE FOR DTFSD FEOVD
08	DTFPHSMO			DTFPH OPEN BY SPACE MANAGEMENT
04	DTFCPLP			SYSLST OR SYSPCH FOR DTFCP
02	DTFGVIOA			IOAREA(S) GETVISED
2D	DTFIOA1	3		ADDRESS OF IO AREA 1, AND IO AREA 2 FOR DTFCP
30	DTFULADR	4		VTOC ADDRESS OF USER LABELS
	Values Defined in DTFULADR			
20	DTFDIV3			VERSION 3 INDICATOR FOR DTFCP & DTFDI

DISP	NAME	LEN	KEY	DESCRIPTION
34	DTFLHLIM	2		ZEROS FOR FBA
36	DTFULPBN	4		EXTENT UL PBN
3A	DTFSKADR			ZEROS FOR FBA
3A	DTFWKSKA	1	D*24	WORKFILE SEEK ADDRESS
3B		1	D*25	UNREFERENCED
3C	DTFLPBNR			PHYSICAL POSITION OF CURRENT LOGICAL BLOCK
3C	DTFLLPBN			EXTENT LL PBN
3C	DTFWKRNO	1	D*26	RECORD NUMBER FOR WORKFILE
3D	DTFWKLMS	1	D*27	WORKFILE LOGIC MODS SW

Values Defined in DTFWKLMS

80	DTFWKWT1	FIRST WRITE-WRKFL
40	DTFWRUPD	WRITE UPDATE INDICATOR
20	DTFWPNTS	POINTS INDICATOR
02	DTFWXTCL	EXTENT NEEDED AT CLOSE

3E	DTFWBKSZ			MAXIMUM BLOCK SIZE
3E	DTFSRCH1	1	D*28	1ST H OF CCHH CKD SEARCH ARGUMENT
3F		1	D*29	UNREFERENCED
40	DTFRECNO	1	D*30	RECORD NUMBER
41	DTFEOFAD		D*31	INPUT - EOF ADDRESS
41		1		UNREFERENCED
42	DTFRECSZ	2		BUCKET TO SAVE RECSIZE REGISTER FOR OUTPUT
44	DTFCTRLF	1	D*32	CONTROL FIELD

Values Defined in DTFCTRLF

80	DTFWEADR	UNREFERENCED
40	DTFWEIGN	ERROPT = IGNORE - WORK FILE
20	DTFWFUNB	RECFORM = FIXNUB - WORK FILE
10	DTFWVYES	VERIFY = YES WORKFILE
08	DTFWESKP	ERROPT = SKIP WORKFILE

45	DTFWERAD	3		USER ERROR ROUTINE ADDRESS
48	DTFRECTK	1	D*33	UNREFERENCED
49	DTFFLG6	1	D*34	DTF FLAGS

Values Defined in DTFFLG6

80	DTFENTB4	NOT FIRST ENTRY
20	DTFORTCL	OUTPUT-EXTENT NEEDED AT CLOSE
20	DTFPBLK	LOGIC MODS - PARTIAL BLOCK TO BE WRITTEN
10	DTFSKIPR	FIXED OUTPUT - SKIP THIS RECORD
10	DTFTRUNR	FIXED INPUT - TRUNCATE REQUEST
08	DTFUEOX	UPDATE-END OF EXTENT
08	DTFNXTCL	NEW XTNT REQUIRED BY CLOSE
04	DTFTRNSP	TRUNC NOT SPECIFIED
04	DTFBFLO	VARIABLE - BLOCK OVERFLOW
02	DTFPUTTD	INPUT - PUT UPDATE OUTSTANDING
01	DTFCIOFL	VARIABLE - CI OVERFLOW

DISP	NAME	LEN	KEY	DESCRIPTION
4A	DTFBLKSZ	2		BLKSIZE-1 SD DATAFILE
4C	DTFLLADR			CCHHR OF LOW LIMIT
4C	DTFLOLIM			LL PBN
4C		2	D*35	UNREFERENCED
4E	DTFLOLH1	1	D*36	1ST H OF CCHH CKD LOWLIM FIELD
4F		1	D*37	UNREFERENCED
50	DTFRCNUM	1	D*38	RECORD NUMBER
51	DTFWLRRT			INPUT-ADDRESS OF USER WLR RETURNED
51	DTFFLG7	1	D*39	OUTPUT-FLAG BYTE
	Values Defined in DTFFLG7			
80	DTFCFEOV			CONSECUTIVE FEOVDS DETECTED
40	DTFFEOVD			OUTPUT - FEOVD
52	DTFTKCAP			OUTPUT - TRACK CAPACITY
52	DTFCPDTL	2		DATA LENGTH FOR DTFCP
54	DTFIOREG			LOAD I/O REGISTER INSTRUCTION
54		1	D*40	MNEMONIC OF INSTRUCTION (47 OR 58)
55	DTFIORGS	1	D*41	RR FIELD OR INSTRUCTION
56		1	D*42	UNUSED
57	DTFIOADS	1	D*43	RELATIVE DISPLACEMENT IN DTF OF IOAREA ADDRESS
58	DTFAVAIL	4		ADDRESS OF AVAILABLE IO AREA
5C	DTFLOGRS	4		LOGICAL RECORD SIZE
60	DTFIEND	4		INPUT-AREA FOR SAVING RECORD LENGTH - OUTPUT ADDR OF END OF IOAREA
64	DTFLGIND	1	D*44	LOGICAL INDICATORS
	Values Defined in DTFLGIND			
80	DTFDEADR			ERROPT = ADDRESS DATAFILE
40	DTFDEIGN			ERROPT = IGNORE DATA FILE
20	DTFDESKP			ERROPT = SKIP DATAFILE
10	DTFDVYES			VERIFY = YES SPECIFIED
08	DTF2IOAS			2 IOAREAS SPECIFIED
04	DTFOUNDL			OUTPUT - UNDEFINED LENGTH RECORDS
04	DTFWLRER			INPUT - USER HAS WRONG LENGTH ERROR ROUTINE
02	DTFFXVUL			1 = FIXED LENGTH RECORDS, 0=VAR OR UNDEFINED LENGTH RECORD
01	DTFCNTRL			CONTROL PARM SPECIFIED
65	DTFDERAD	3		USER ERROR ROUTINE ADDRESS - DATAFILE
68	DTFSKCCW			CKD SEEK CCW
68	DTFDFSEK	1	D*45	CKD DATA FILE SEEK
69		7	D*46	UNREFERENCED
70		48	D*47	UNUSED 112 - 159

DISP	NAME	LEN	KEY	DESCRIPTION
A0	DTFVOSPR			SPACE REMAINING IN BUFFER
A0		1	D*48	UNREFERENCED
A1	DTFFLEOX	3		EOX RETURNED ADDRESS FOR OUTPUT FIXED LENGTH RECORDS USED BY COBOL
A4	DTFEOXUL	1	D*49	LABEL NEEDED FOR OVERLAY
A5	DTFULEOX	3		EOX RETURNED ADDRESS FOR OUTPUT UNDEFINED LENGTH RECORDS USED BY COBOL
A8		5	D*50	UNREFERENCED
AD	DTFVLEOX	3		EOX RETURNED ADDRESS FOR OUTPUT VARIABLE LENGTH RECORDS USED BY COBOL
B0	DTFVIRLN	4		VARIABLE INPUT - RECORD LENGTH
B4	DTFVILRR			VARIABLE INPUT - INSTRUCTION TO LOAD RECSIZE REG
B4	DTFVUPBN	4		VARIABLE UPDATE - PBN OF HELD CI
B8	DTFVUNIL			VARIABLE UPDATE - NOTE ID LAST SEGMENT
B8	DTFVUCIL			VARIABLE UPDATE - RELATIVE CI OF LAST SEGMENT
B8		1	D*51	UNREFERENCED
B9	DTFCFEOX	3		EOX RETURNED ADDRESS FOR OUTPUT FIXED LENGTH RECORDS WITH CONTROL SPECIFIED USED BY COBOL
BC	DTFVULBL	2		VARIABLE UPDATE - LOGICAL BLOCK NUMBER OF LAST SEGMENT
BE		10	D*52	UNREFERENCED
C8	DTFVORLN	4		VARIABLE OUTPUT - RECORD LENGTH
CC	DTFVOSRR	4		VARIABLE OUTPUT - INSTRUCTION TO STORE RECSIZE REG
D0	DTFVOFLG	1	D*53	VAR OUTPUT - CONTROL FLAGS

Values Defined in DTFVOFLG

20	DTFVOSLS	LEADING SEGMENT
10	DTFVOSBT	OUTPUT BLOCK TRUNCATED
08	DTFVOSET	END OF TRACK
04	DTFVOSTT	TRACK TRUNCATED
02	DTFVOSSA	SAVE DISK ADDRESS
01	DTFVOSMS	MULTI-SEGMENT RECORD

D1		3	D*54	UNREFERENCED
D4	DTFVOCNT			VARIABLE OUTPUT - COUNT SAVE AREA
D4		4	D*55	UNREFERENCED
D8	DTFVURLN	4		VARIABLE UPDATE - RECORD LENGTH
DC	DTFVULRR			VARIABLE UPDATE - INSTRUCTION TO LOAD RECSIZE REG
DC	DTFVOXST			VARIABLE OUTPUT - EXTENT STATUS SAVE AREA

DISP	NAME	LEN	KEY	DESCRIPTION
DC	DTFVOXFL	1	D*56	VARIABLE OUTPUT - EXTENT CHANGE FLAGS
	Values Defined in DTFVOXFL			
10	DTFVO1VL			FIRST VOLUME OF FILE
08	DTFVOROK			REREAD COMPLETED OK
04	DTFVORRD			REREAD IN PROGRESS
01	DTFVOPEN			OUTPUT OPEN IN PROGRESS
DD	DTFVOXSN	1	D*57	VARIABLE OUTPUT - EXTENT SEQUENTIAL NUMBER OF NETED RECORDS
DE	DTFVOXS1	1	D*58	VARIABLE OUTPUT - EXTENT SEQUENTIAL NUMBER OF 1ST EXTENT ON CURRENT VOLUME
DF	DTFVOXOB	1	D*59	VARIABLE OUTPUT - COPY OF OPEN COM BYTE
	Values Defined in DTFVOXOB			
08	DTFVOXNV			NEXT EXTENT ON NEW VOLUME
E0		4	D*60	UNREFERENCED
E4	DTFVUNI1			VARIABLE UPDATE - NOTED ID OF 1ST SEGMENT
E4	DTFVUCI1	4		VARIABLE UPDATE - RELATIVE CI OF 1ST SEGMENT
E8	DTFVULB1	2		VARIABLE UPDATE - LOGICAL BLOCK NUMBER OF 1ST SEGMENT
EA		2	D*61	UNREFERENCED
EC	DTFVUXST	1		VARIABLE UPDATE - EXTENT STATUS SAVE AREA
EC	DTFVUXSL	1	D*62	VARIABLE UPDATE - EXTENT SEQUENCE NUMBER OF LAST SEGMENT
ED	DTFVUXS1	1	D*63	VARIABLE UPDATE - EXTENT SEQUENCE NUMBER OF 1ST SEGMENT
EE	DTFVUXFL	1	D*64	VARIABLE UPDATE - FLAGS
	Values Defined in DTFVUXFL			
80	DTFVUXSH			A SPANNED 1ST SEGMENT IS HELD
08	DTFVUXLD			DUMMY EXTENT MODE FOR LAST SEGMENT
04	DTFVUX1D			DUMMY EXTENT MODE FOR FIRST SEGMENT
EF		1	D*65	UNREFERENCED

THESE DECLARES ARE OVERLAYS FOR FIELDS IN DTFSD VARIABLE DATA FILES WHERE BOUNDARY ALIGNMENTS WOULD CAUSE OVERLAP IF THE LABELS WERE INSERTED IN LINE.

A4	DTFVOLAY			
A4	DTFVOCIC	2		VARIABLE OUTPUT - REMAINING CI CAPACITY
A8	DTFVOLVB	4		VARIABLE OUTPUT - INSTRUCTION TO LOAD VARBLD REG
AC		3		UNREFERENCED
D4	DTFVONID			VARIABLE OUTPUT - NOTE ID
D4	DTFVOCID	4		VARIABLE OUTPUT - RELATIVE CI PART OF NOTE ID
D8	DTFVOLBN	2		VARIABLE OUTPUT - LOGICAL BLOCK NUMBER IN NOTE ID
24	DTFDAEXR			ADDRESS OF DA XTNT EXIT INFORMATION RTN
24		1		UNREFERENCED

DISP	NAME	LEN	KEY	DESCRIPTION
25	DTFDAEER	3		DTFPH MOUNT=ALL XTNT EXIT POINTER
THIS DECLARE IS AN OVERLAY FOR FIELDS IN DTFSD WORKFILES.				
28	DTFWKEXT			WORKFILE UL/LL PBN
28	DTFWKRLT	2		RECORD LENGTH
2A	DTFWKLLI	4		INIT EXTNT LL PBN
2E	DTFWKLLC	4		CURRENT EXTNT LL PBN
32	DTFWKULC	4		CURRENT EXTNT UL PBN
36		2		UNUSED
38	DTFWPBNR			POSITION IN FILE
38	DTFWKSRH			SEARCH ADDRESS
38	DTFWPBCC	2		CC FIELD OF SEARCH ADDRESS
3A	DTFWPBHH	2		HH FIELD OF SEARCH ADDRESS
3C	DTFWKSRR	1		RECORD NUMBER OF SEARCH ADDRESS
END OF DTFSD WORKFILE OVERLAY				
20	DTFTPSD			DTFSD DTF TYPE INDICATOR
21	DTFTPPH			DTFPH DTF TYPE INDICATOR
22	DTFTPDA			DTFDA DTF TYPE INDICATOR
23	DTFTPPHM			DTFPH-MNTF = ALL
30	DTFTPCP1			DTFCP DISK OMITTED DTF TYPE INDICATOR
32	DTFTPCP3			DTFCP DISK = YES DTF TYPE INDICATOR
33	DTFTPDI			DTFDI DTF TYPE INDICATOR
C6	DTFEOFPH			DTFPH EOF INDICATOR
CKD CONTROL FACTOR OVERLAY				
44	DTFCTRL			CKD CONTROL FACTOR
44	DTFCTRLC	2		CONTROL FACTOR CC
46	DTFCTRLH	2		CONTROL FACTOR HH
CKD CURRENT SYSFIL DIB ADDRESS OVERLAY				
3A	DTFCDIBA	7		CKD CURRENT DIB ADDRESS BBCCHHR
CKD CP/DI SEEK OVERLAY				
58	DTFCPDIS	1		CKD CP/DI SEEK
WORKFILE LOWER/UPPER HEAD LIMIT OVERLAY				
26	DTFWKLMT			
26	DTFWKLLL	1		WORKFILE LOWER HEAD LIMIT

DISP	NAME	LEN	KEY	DESCRIPTION
27	DTFWKLUL	1		WORKFILE UPPER HEAD LIMIT
LOWER HEAD LIMIT AND UPPER PBN LIMIT OVERLAY				
34	DTFLOWHL	2		LOWER HEAD LIMIT
36	DTFPBNUL	4		UPPER PBN LIMIT
DTFDA DESCRIPTOR STRING DISPLACEMENT/TRACK CONSTANTS/SIX BASIC CCWS OVERLAY				
4E	DTFDAOVY			DTFDA DTF OVERLAY
4E	DTFDADSD			DTFDA DESCRIPTOR STRING FIELD
4E	DTFDADRI	1		DISPLACEMENT TO READID STRING
4F	DTFDADRK	1		DISPLACEMENT TO READ KEY STRUCTURE
50	DTFDADWI	1		DISPLACEMENT TO WRITE ID STRUCTURE
51	DTFDADWK	1		DISPLACEMENT TO WRITE KEY ST
52	DTFDADWO	1		DISPLACEMENT TO WRITE RZERO
53	DTFDADWA	1		DISPLACEMENT TO WRITE AFTER
54	DTFDATKC	2		DTFDA TRACK CONSTANT
56	DTFDARIC	2		DTFDA RECORD CONSTANT
58		2		FILLER
5A	DTFDASUL			USER LABEL SAVE AREA
5A	DTFDASYM	1		SYMBOLIC UNIT
5B		1		BIN# (NOT USED)
5C	DTFDAULA	4		USER LABEL DASD ADDRESS
60	DTFDACCW			6 BASIC CCWS OVERLAY
60		6		UNREFERENCED
66	DTFDAKLN	2		KEY LENGTH FIELD
68		24		3RD - 5TH BASIC CCW
80		4		UNREFERENCED
84	DTFDACC6	1		FLAG FOR 6TH CCW
85		3		
88		2		UNREFERENCED CCWS
A8		6		UNREFERENCED
AE	DTFDAMRS	2		MAXIMUM RECORD SIZE FIELD

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

DTFACPT	0002	10	DTFDEVTP	001D	..	DTFPBLK	0049	20	DTFVOPEN	00DC	01
DTFAVAIL	0058	..	DTFDFSEK	0068	..	DTFPBNUL	0036	..	DTFVORLN	00C8	..
DTFBFLO	0049	04	DTFDIV3	0030	20	DTFPHEOF	001E	..	DTFVOROK	00DC	08
DTFBLHLD	0010	10	DTFDQEXT	0010	80	DTFPHMV3	0020	20	DTFVORRD	00DC	04
DTFBLKFL	0015	40	DTFDUMEX	0026	01	DTFPHSMO	002C	08	DTFVOSBT	00D0	10
DTFBLKSZ	004A	..	DTFDVYES	0064	10	DTFPHSV3	002C	20	DTFVOSET	00D0	08
DTFCCB	0000	00	DTFENTB4	0049	80	DTFPLU	0006	01	DTFVOSLS	00D0	20
DTFCCW	0009	..	DTFEOEXT	0010	01	DTFPRTLB	0026	20	DTFVOSMS	00D0	01
DTFCCWA	0008	..	DTFEOF	0002	40	DTFPUTTD	0049	02	DTFVOSPR	00A0	..
DTFCDIBA	003A	..	DTFEOFAD	0041	..	DTFRCNUM	0050	..	DTFVOSRR	00CC	..
DTFCFEOV	0051	80	DTFEOFPH	00C6	..	DTFRECNO	0040	..	DTFVOSSA	00D0	02
DTFCFEOX	00B9	..	DTFEOXUL	00A4	..	DTFRECSZ	0042	..	DTFVOSTT	00D0	04
DTFCIOFL	0049	01	DTFEXBYP	0027	80	DTFRECTK	0048	..	DTFVOXFL	00DC	..
DTFCNTRL	0064	01	DTFFEOV	0027	40	DTFRPSXC	002A	40	DTFVOXNV	00DF	08
DTFCOUNT	0000	..	DTFFEOVD	0051	40	DTFRPSXS	002A	01	DTFVOXOB	00DF	..
DTFCPDIF	002A	..	DTFFLEOX	00A1	..	DTFSDRPS	002C	40	DTFVOXSN	00DD	..
DTFCPDIS	0058	..	DTFFLG1	0010	..	DTFSKADR	003A	..	DTFVOXST	00DC	..
DTFCPDTL	0052	..	DTFFLG2	0015	..	DTFSKCCW	0068	..	DTFVOXS1	00DE	..
DTFCPFP	002C	20	DTFFLG3	0026	..	DTFSKIPR	0049	10	DTFVO1VL	00DC	10
DTFCPIN	002C	80	DTFFLG5	002C	..	DTFSNLEO	0028	..	DTFVUCIL	00B8	..
DTFCPLP	002C	04	DTFFLG6	0049	..	DTFSPAND	0010	02	DTFVUCI1	00E4	..
DTFCP2I	002C	10	DTFFLG7	0051	..	DTFSPECL	0010	40	DTFVULBL	00BC	..
DTFCSW	0004	..	DTFFLNML	0028	..	DTFSRCH1	003E	..	DTFVULB1	00E8	..
DTFCTRL	0044	..	DTFFMT1R	0023	..	DTFTKCAP	0052	..	DTFVULRR	00DC	..
DTFCTRLC	0044	..	DTFFXVUL	0064	02	DTFTLCL	0026	02	DTFVUNIL	00B8	..
DTFCTRLF	0044	..	DTFF1ADD	001E	..	DTFTPCP1	0030	..	DTFVUNI1	00E4	..
DTFCTRLH	0046	..	DTFF1ADR	0020	..	DTFTPCP3	0032	..	DTFVUPBN	00B4	..
DTFDAAFT	0015	10	DTFGVIOA	002C	02	DTFTPDA	0022	..	DTFVURLN	00D8	..
DTFDACCW	005C	60	DTFIDXSQ	0021	..	DTFTPDI	0033	..	DTFVUXFL	00EE	..
DTFDACC6	0084	..	DTFIEND	0060	..	DTFTPPH	0021	..	DTFVUXLD	00EE	08
DTFDADRI	004E	..	DTFIF1SQ	0022	..	DTFTPPHM	0023	..	DTFVUXSH	00EE	80
DTFDADRK	004F	..	DTFIGNOP	0010	20	DTFTPSD	003C	20	DTFVUXSL	00EC	..
DTFDADSD	004E	..	DTFIHDRL	0026	02	DTFTRAF	0002	80	DTFVUXST	00EC	..
DTFDADWA	0053	..	DTFINCL	0004	40	DTFTRANS	0002	..	DTFVUXS1	00ED	..
DTFDADWI	0050	..	DTFINPUT	0015	02	DTFTRLBL	0010	04	DTFVUX1D	00EE	04
DTFDADWK	0051	..	DTFIOADS	0057	..	DTFTRNSP	0049	04	DTFWBKSZ	003E	..
DTFDADWO	0052	..	DTFIOA1	002D	..	DTFTRUNR	0049	10	DTFWEADR	0042	80
DTFDAEER	0025	..	DTFIOREG	0054	..	DTFTYPC	0006	..	DTFWEIGN	0042	40
DTFDAEXR	0024	..	DTFIORGS	0055	..	DTFTYPE	0014	..	DTFWERAD	0045	..
DTFDAFSU	001E	..	DTFIRTCL	0026	04	DTFTYPLU	0006	..	DTFWESKP	0042	08
DTFDAKLN	0066	..	DTFLGIND	0064	..	DTFUE	0004	01	DTFWFUNB	0042	20
DTFDAMRS	00AE	..	DTFLGMDA	0009	10	DTFUEOF	0026	10	DTFWKDLT	0015	40
DTFDAOUT	0015	80	DTFLGMOD	0011	..	DTFUEOX	0049	08	DTFWKEXT	0028	..
DTFDAOVY	004E	..	DTFLHLIM	0034	..	DTFULADR	0030	..	DTFWKFID	0025	04
DTFDARIC	0056	..	DTFLLADR	004C	..	DTFULEOX	00A5	..	DTFWKLLC	002E	..
DTFDARPS	0020	40	DTFLLPBN	003C	..	DTFULPBN	0036	..	DTFWKLLI	002A	..
DTFDARTA	0028	..	DTFLOGRS	005C	..	DTFULRTN	0029	..	DTFWKLLL	0026	..
DTFDASCH	0015	20	DTFLOLH1	004E	..	DTFUNRC	0002	20	DTFWKLMS	003D	..
DTFDASUL	005A	..	DTFLOLIM	004C	..	DTFUPDAT	0026	40	DTFWKLMT	0026	..
DTFDASYM	005A	..	DTFLOWHL	0034	..	DTFUSRLB	0015	01	DTFWKLUL	0027	..
DTFDATKC	0054	..	DTFLPBNR	003C	..	DTFVAROU	002C	10	DTFWKNWV	0025	08
DTFDAULA	005C	..	DTFLSTVL	0027	20	DTFVERR	0002	02	DTFWKOCF	0025	..
DTFDAULI	0010	80	DTFLU	0007	..	DTFVER2	0015	08	DTFWKPTO	0015	10
DTFDAULR	0021	..	DTFNAME	0016	..	DTFVILRR	00B4	..	DTFWKRLT	0028	..
DTFDAUND	0015	04	DTFNEWVL	0026	08	DTFVIRLN	00B0	..	DTFWKRNO	003C	..
DTFDAVER	0015	40	DTFNOEXT	0026	80	DTFVLEOX	00AD	..	DTFWKRPS	0025	40
DTFDAXTN	0020	01	DTFNRCF	0002	04	DTFVOCIC	00A4	..	DTFWKSEQ	0024	..
DTFDAXXR	0024	..	DTFNX1CL	0049	08	DTFVOCID	00D4	..	DTFWKSKA	003A	..
DTFDCH1	0002	80	DTFODXSQ	0027	..	DTFVOCNT	00D4	..	DTFWKSRH	0038	..
DTFDCH2	0002	10	DTFOHDRL	0026	10	DTFVOFLG	00D0	..	DTFWKSRR	003C	..
DTFDEADR	0064	80	DTFOPEN	0015	04	DTFVOLBN	00D8	..	DTFWKTKC	001E	..
DTFDEIGN	0064	40	DTFORTCL	0049	20	DTFVOLNO	0024	..	DTFWKULC	0032	..
DTFDERAD	0065	..	DTFOUNDL	0064	04	DTFVOLVB	00A8	..	DTFWKV3	0025	20
DTFDESKP	0064	20	DTFOXTCL	0026	40	DTFVONID	00D4	..	DTFWKWT1	003D	80

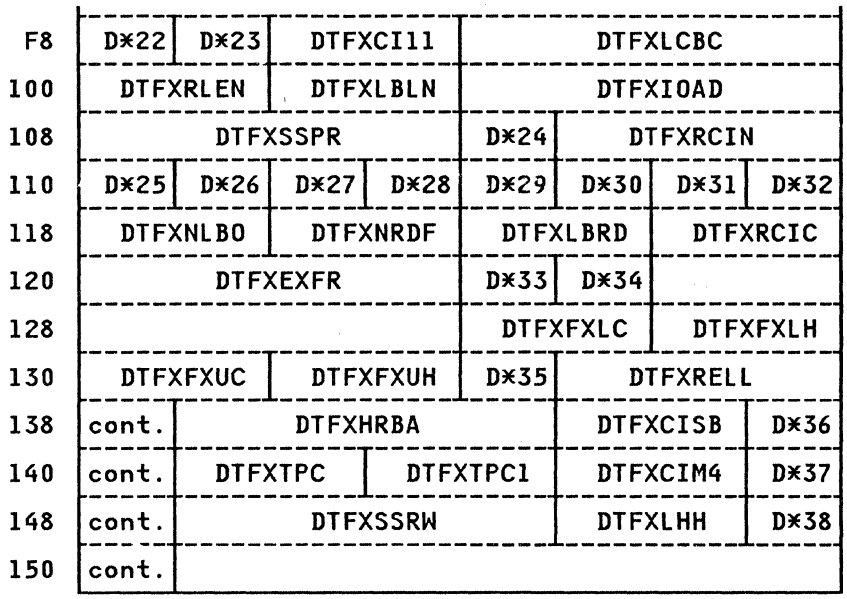
CROSS REFERENCE (Name Disp Value)

DTFWKXTD 0025 02	DTFWORKA 0015 10	DTFWPNTS 003D 20	DTFWVYES 0042 10
DTFWKXTF 0025 10	DTFWPBCC 0038 ..	DTFWRKFL 0015 20	DTFWXTCL 003D 02
DTFWLRER 0064 04	DTFWPBHH 003A ..	DTFWRUPD 003D 40	DTF1052 0026 04
DTFWLRRT 0051 ..	DTFWPBNR 0038 ..	DTFWTKCP 001E ..	DTF2IOAS 0064 08

DTFX: DTF EXTENSION

DTFX describes the fields in the DTF extension. DTFX is used in the CMS/DOS environment. DTFX is invoked via the DTFX macro.

0	DTFXIDEN			
8	DTFXCBRC	DTFXCBTI	DTFXCBST	DTFXCBTC
10	D*1	DTFXCCWA	D*2	DTFXCWCS
18	D*3	DTFXRBPT	////////////////////	
20	////////////////////		DTFXRSV1	
28	D*4	DTFXFBLP	D*5	DTFXFBUP
30	D*6	DTFXC1LP	D*7	DTFXC1UP
38	D*8	DTFXD1LP	D*9	DTFXD1UP
40	D*10	DTFXE1LP	D*11	DTFXE1UP
48	D*12	D*13	D*14	D*15	DTFXDUMY
50	DTFXFBAO		DTFXDTF	
58	DTFXNDTF		DTFXORSP	
60	DTFXXLEN		D*16	DTFXOCWP
68	DTFXCISZ		D*17	DTFXLMPT
70	= DTFXLMSA =			
B0	DTFXFBAB		D*18	///////////////
B8	DTFXCCWP		DTFXMSWA	
C0	DTFXSMWP		DTFXERXT	
C8	DTFXULLX		DTFXULUX	
D0	DTFXIOA1		DTFXSIO1	
D8	DTFXSIO2		DTFXBLSZ	
E0	//			
E8	DTFXCI1P		DTFXCI1C	DTFXCI1H
F0	D*19	///	D*20	D*21	DTFXCINC	DTFXCINH



F8	D*22	D*23	DTFXCI11		DTFXLCBC			
100	DTFXRLEN		DTFXLBLN		DTFXIOAD			
108	DTFXSSPR				D*24	DTFXRCIN		
110	D*25	D*26	D*27	D*28	D*29	D*30	D*31	D*32
118	DTFXNLBO		DTFXNRDF		DTFXLBRD		DTFXRCIC	
120	DTFXEXFR				D*33	D*34		
128					DTFXFXLC		DTFXFXLH	
130	DTFXFXUC		DTFXFXUH		D*35	DTFXRELL		
138	cont.	DTFXHRBA				DTFXCISB		D*36
140	cont.	DTFXTPC		DTFXTPC1		DTFXCIM4		D*37
148	cont.	DTFXSSRW				DTFXLHH		D*38
150	cont.							

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DTFXIDEN	8		EYE CATCHER
8	DTFXCCB			IORB IN DTF EXTENSION
8	DTFXCCBI			CCB IN IORB
8	DTFXCBRC	2		RESIDUAL COUNT
A	DTFXCBTI	2		TRANSMISSION INFORMATION
	Values Defined in DTFXCBTI			
80	DTFXTRAF			TRAFFIC BIT
C	DTFXCBST	2		STATUS BITS
E	DTFXCBTC	2		TYPE CODE
	Values Defined in DTFXCBTC			
08	DTFXECBI			ECB POINTER IS PRESENT
04	DTFXIORB			IORB INDICATOR
10	DTFXCBLI	1	D*1	LIOCS BITS
11	DTFXCCWA	3		CCW POINTER
14	DTFXCBPI	1	D*2	PIOCS BITS
15	DTFXCWCS	3		CCW IN CSW
18	DTFXIOFL			FIX LIST POINTER
18	DTFXRBFL	1	D*3	IORB FLAGS
19	DTFXRBPT	3		FIX LIST POINTER

DISP	NAME	LEN	KEY	DESCRIPTION
IC		4		RESERVED
20		4		PTR TO CCB FOR WAIT POSTING
24	DTFXRSV1	4		RESERVED FOR IORB EXPANSION
28	DTFXFLS1			FIX LIST 1
28	DTFXFLB1			IORB FIX LIST
28	DTFXFBLF	1	D*4	LOWER FLAG
29	DTFXFBLP	3		LOWER IORB POINTER
2C	DTFXFBUF	1	D*5	UPPER FLAG
2D	DTFXFBUP	3		UPPER IORB POINTER
30	DTFXFLC1			CCW FIX LIST
30	DTFXC1LF	1	D*6	LOWER FLAG
31	DTFXC1LP	3		LOWER CCW POINTER
34	DTFXC1UF	1	D*7	UPPER FLAG
35	DTFXC1UP	3		UPPER CCW POINTER
38	DTFXFLD1			DATA AREA FIX LIST 1
38	DTFXD1LF	1	D*8	LOWER FLAG
39	DTFXD1LP	3		LOWER DATA POINTER
3C	DTFXD1UF	1	D*9	UPPER FLAG
3D	DTFXD1UP	3		UPPER DATA POINTER
40	DTFXFLE1			ECB FIX LIST 1
40	DTFXE1LF	1	D*10	LOWER FLAG
41	DTFXE1LP	3		LOWER ECB POINTER
44	DTFXE1UF	1	D*11	UPPER FLAG
45	DTFXE1UP	3		UPPER ECB POINTER
48	DTFXFLG1			FLAG BYTES
48	DTFXFLF1	1	D*12	END OF FIX LIST
49	DTFXFL10	1	D*13	SSR CONTROL FLAGS

Values Defined in DTFXFL10

80	DTFXSSHD	HOLD = YES SPECIFIED IN DTF
40	DTFXSSLC	SSR TO OPERATE IN LOCATE
20	DTFXSSFT	SSR FIRST ENTRY TAKEN
10	DTFXSSFW	FORCED WRITES REQUIRED
08	DTFXRPS	RPS DEVICE
04	DTFXNHRB	DON'T UPDATE HIGH RBA
02	DTFX1411	DEVICE IS A 2311 OR 2314
01	DTFXNOMT	MULTI-TRACK READ COUNT AHEAD NOT TO BE DONE

DISP	NAME	LEN	KEY	DESCRIPTION
4A	DTFXFL20	1	D*14	CCW INITIALIZATION STATE
	Values Defined in DTFXFL20			
	80 DTFXCCRD			CCWS INITIALIZED FOR READ
	40 DTFXCCWT			CCWS INITIALIZED FOR FORMATTED WRITE
	20 DTFXCCWU			CCWS INITIALIZED FOR UNFORMATTED WRITE
	10 DTFXCCRC			CCWS INITIALIZED FOR READ COUNT
4B	DTFXFL30	1	D*15	MORE FLAGS
	Values Defined in DTFXFL30			
	80 DTFXSSSK			ERROPT = SKIP FOR DTFSD
	40 DTFXSSIG			ERROPT = IGNORE FOR DTFSD
	20 DTFXERNM			ERROPT = NAME FOR DTFSD
	10 DTFXWORK			WORKA = YES FOR DTFSD
	08 DTFXTRNC			TRUNCS = YES SPECIFIED
	04 DTFXUPDT			UPDATE = YES SPECIFIED
	02 DTFXNIOA			NO IOAREAS SPECIFIED
	01 DTFXVYES			VERIFY = YES SPECIFIED FOR DTFSD - ALWAYS ON FOR CP
4C	DTFXDSAP			POINTER TO DSA
4C	DTFXDUMY	4		DUMMY TO GET DSAP GENNED
50	DTFXFBAO	4		FbA OPEN POINTER
54	DTFXDTF	4		POINTER TO OLD DTF
58	DTFXNDTF	4		POINTER TO NEXT IN DTF LIST
5C	DTFXORSP	4		POINTER TO OPEN SAVE AREA
60	DTFXXLEN	4		LENGTH OF THIS EXTENSION
64	DTFXOCCW			POINTER TO OLD CCW
64	DTFXSFSW	1	D*16	SYSFIL SWITCH
	Values Defined in DTFXSFSW			
	80 DTFXIOPT			IOPTR SPECIFIED IN DTFCP
	40 DTFXFRVS			FREEVIS DTFEXTEN
	20 DTFXMECP			MULTIPLE EXTENT CP IS ALLOWED
65	DTFXOCWP	3		OLD CCW POINTER
68	DTFXCISZ	4		CI SIZE IN BYTES
6C	DTFXLMSP			POINTER TO OLD LOGIC MOD
6C	DTFXLMSW	1	D*17	FLAGS
	Values Defined in DTFXLMSW			
	80 DTFXCPCP			THIS IS FOR DTFCP
	40 DTFXSDSD			THIS IS FOR DTFSD
	20 DTFXDIDI			THIS IS FOR DTFDI
	10 DTFXSDWF			DTFSD TYPE = WORKFILE
	08 DTFXVER3			DTF IS VERSION 3
	04 DTFXSPRO			SPANNED RECORD FILE REOPEN REQUEST
	02 DTFXCEOX			COBOL EOX TAKEN
	01 DTFXRSVD			NOT USED
6D	DTFXLMPT	3		POINTER TO OLD LOGIC MOD
70	DTFXLMSA	64		LOGIC MOD SAVEAREA

DISP	NAME	LEN	KEY	DESCRIPTION
B0	DTFXFBAB	4		FBA BLOCKSIZE OR PHYSICAL RECORD SIZE FOR CKD
B4	DTFXODVT	1	D*18	DEVICE TYPE
B5		3		RESERVED
B8	DTFXCCWP	4		POINTER TO CCW WORK AREA
B8	DTFXDEOC	1		OP CODE
B8	DTFXCCWW			
B8	DTFXCCWS			FBA CCW STRING
B8	DTFXDFX1			DEFINE EXTENT CCW
B9	DTFXDEXP	3		EXTENT POINTER
BC	DTFXMSWA	4		POINTER TO MAP STRING WORK AREA
BC	DTFXDECF	1		CHAINING FLAGS
BD	DTFXDERS	1		RESERVED
BE	DTFXDEBC	2		BYTE COUNT
C0	DTFXLOC1			LOCATE CCW
C0	DTFXSMWP	4		POINTER TO SPACE MANAGEMENT WORK AREA
C0	DTFXLOOC	1		OP CODE
C1	DTFXLOLP	3		LOCATE LIST POINTER
C4	DTFXERXT	4		ERROPT = ADDRESS ADDR
C4	DTFXLOCF	1		CHAINING FLAGS
C5	DTFXLORS	1		RESERVED
C6	DTFXLOBC	2		BYTE COUNT
C8	DTFXRWCW			READ/WRITE CCW
C8	DTFXULLX	4		USER LABEL LOWER EXTENT
C8	DTFXRWOC	1		OP CODE
C9	DTFXRWDP	3		DATA POINTER
CC	DTFXULUX	4		USER LABEL UPPER EXTENT
CC	DTFXRWCF	1		CHAINING FLAGS
	Values Defined in DTFXRWCF			
	40 DTFXCWCN			COMMAND CHAIN FLAG
CD	DTFXRWRS	1		RESERVED
CE	DTFXRWLN	2		LENGTH
D0	DTFXVNOP			NOP CCW
D0	DTFXIOA1	4		ADDRESS OF USERS I/O AREA 1
D0	DTFXVLOC	1		OP CODE
D1	DTFXVLLP	3		DATA POINTER FOR NOP CCW

DISP	NAME	LEN	KEY	DESCRIPTION
D4	DTFXSIO1	4		ADDRESS OF I/O AREA 1 SPECIFIED BY USER ON DTF
D4	DTFXVLCF	1		CHAINING FLAGS
D5	DTFXVLRS	1		RESERVED
D6	DTFXVLBC	2		BYTE COUNT
D8	DTFXSIO2	4		ADDRESS OF I/O AREA 2 SPECIFIED BY USER ON DTF
D8	DTFXRSV4	16		RESERVED FOR CHANNEL PROGRAM EXPANSION
DC	DTFXBLSZ	4		BLOCKSIZE SPECIFED BY USER ON THE DTF
E0		4		RESERVED
E4		4		RESERVED
E8	DTFXXTNT			DEFINE EXTENT DATA
E8	DTFXCI1			CI HEADER
E8	DTFXCI1P	4		CI BUFFER ADDRESS
E8	DTFXXTMB	1		MASK BYTE
E9	DTFXXRSV	3		RESERVED
EC	DTFXPBNR			CURRENT POSITION
EC	DTFXCI1B			PBN OR CCHH OF CI
EC	DTFXCI1C	2		CC
EC	DTFXXTFB	4		FIRST BLOCK ON MEDIA
EE	DTFXCI1H	2		HH
F0	DTFXCI1R	1	D*19	ZERO FOR FBA, PHYSICAL RECORD NUMBER FOR CKD
F0	DTFXXTFD	4		FIRST BLOCK ON DS
F1		1		RESERVED
F2	DTFXCI12	1	D*20	IO PASSBACK FIELD

Values Defined in DTFXCI12

80	DTFXEOXH	END OF EXTENT
40	DTFXIOEH	I/O ERROR OCCURRED
20	DTFXIOWP	WRITE IN PROGRESS
10	DTFXIORP	READ IN PROGRESS
08	DTFXCITL	LOGICAL BLOCK TOO LONG
04	DTFXPONV	POSITION NOT VALID
02	DTFXEOFH	EOF ENCOUNTERED

DISP	NAME	LEN	KEY	DESCRIPTION
F3	DTFXCI13	1	D*21	CI STATUS

Values Defined in DTFXCI13

80	DTFXFREE	CI OR TRACK IS TO BE FREED
40	DTFXFWRQ	FORMATTED WRITE REQUIRED
20	DTFXUWRQ	UNFORMATTED WRITE REQUIRED
10	DTFXRETR	RETRY BEING DONE
08	DTFXFORW	FORCED WRITE BEING DONE
04	DTFXVALC	CI CONTENTS ARE VALID
02	DTFXLSIO	LAST I/O FOR THE CI

DISP	NAME	LEN	KEY	DESCRIPTION
F4	DTFXCI1N			NEXT POSITION FOR CI FORMAT CKD OR CCCH OF FIRST TRACK OF FIRST EXTENT FOR NON-CI FORMAT CI
F4	DTFXCIN			PBN OR CCHH OF NEXT CI
F4	DTFXCINC	2		CC
F4	DTFXXTLD	4		LAST BLOCK ON DS
F6	DTFXCINH	2		HH
F8	DTFXLOCD			LOCATE DATA
F8	DTFXCINR	1	D*22	R
F8	DTFXLCOB	1		OPERATION BYTE
F9	DTFXCI14	1	D*23	FUNCTION FLAGS
	Values Defined in DTFXCI14			
80	DTFXSARC			STAND ALONE READ COUNT REQUESTED
40	DTFXMTRQ			MULTI-TRACK READ COUNT TO BE DONE
20	DTFXTRHD			TRACK IS TO BE HELD ON THIS REQUEST
F9	DTFXLCRC	1		REPLICATION COUNT
FA	DTFXCI11	2		CURRENT LOGICAL BLOCK NUMBER
FA	DTFXLCBC	2		BLOCK COUNT
FC	DTFXLCDD	4		DATA DISPLACEMENT
FC		4		RESERVED
SSR INTERFACE				
100	DTFXRLEN	2		REQUESTED DATA LENGTH
102	DTFXLBLN	2		LOGICAL BLOCK LENGTH
104	DTFXIOAD	4		LOGICAL BLOCK ADDRESS POINTER
108	DTFXSSPR	4		POINTER TO SAM SERVICE RTN
10C	DTFXRCIR			FULL NOTE/REPOSITION ID
10C	DTFXRLCI			RELATIVE CI REPOSITION AND NOTE
10C	DTFXNPCK			EXTENDED NOTE/POINT ARGUMENT DEFINITION
10C	DTFXRLC1	1	D*24	HIGH ORDER BYTE
10C	DTFXNPCC	2		CC
10D	DTFXRCIN	3		RELATIVE CI NUMBER FOR NOTE ID
10D	DTFXNWCC	2		CC
10D	DTFXNW			EXTENDED NOTE/POINT ARGUMENT DEFINITION
10E	DTFXNPH	2		H
10F	DTFXNWH	1		H
110	DTFXSSL1	1	D*25	FIRST BYTE OF LOGICAL BLOCK NUMBER
110	DTFXNPR	1		R

DISP	NAME	LEN	KEY	DESCRIPTION
110	DTFXSSLB			LOGICAL BLOCK FOR REPOSITION AND NOTE FOR CI FORMAT, REMAINING SPACE FOR NON-CI FORMAT OTHER THAN WORKFILES, OR FOR WORKFILES
111	DTFXSSL2	1	D*26	SECOND BYTE OF LOGICAL BLOCK NUMBER
112	DTFXSPB1	1	D*27	SSR PASSBACK
	Values Defined in DTFXSPB1			
	80 DTFXEOX			END OF EXTENT
	40 DTFXNLBF			NO LOGICAL BLOCK FOUND
	20 DTFXREOC			READ ERROR OCCURRED
	10 DTFXWEOC			WRITE ERROR OCCURRED
	08 DTFXLBTL			LOGICAL BLOCK TOO LONG
	04 DTFXSEOF			SOFTWARE EOF ENCOUNTERED
	02 DTFXRQCP			REQUEST COMPLETE
	01 DTFXBOE			BEGIN OF EXTENT
113	DTFXSPB2	1	D*28	SSR PASSBACK
	Values Defined in DTFXSPB2			
	80 DTFXBOF			BEGIN OF FILE
	40 DTFXBSL			BACKSPACE TO BE REISSUED
	20 DTFXBSLR			BACKSPACE IN PROGRESS
114	DTFXSPR1	1	D*29	PREVIOUS ACTION REQUEST
115	DTFXSPR2	1	D*30	PREVIOUS REQUEST
116	DTFXSSIC	1	D*31	SSR STATUS
	Values Defined in DTFXSSIC			
	80 DTFXRPIP			REPOSITION IN PROGRESS
	40 DTFXERIP			ERROR EXIT IN PROGRESS
	20 DTFXSKEX			SKIP RETURN FROM ERROR EXIT
	10 DTFXSCDF			INITIALIZE CIDF
	08 DTFXRIOE			RESUME AFTER IO ERROR
	04 DTFXDWCI			DONT WRITE CI
	02 DTFXLMEP			EXPLICIT FREE REQUEST
117	DTFXSSR1	1	D*32	RESERVED
118	DTFXNLBO	2		NEXT LOGICAL BLOCK OFFSET
11A	DTFXNRDF	2		NEXT RDF OFFSET
11C	DTFXLBRD	2		LOGICAL BLOCK WITHIN RDF
11E	DTFXRCIC	2		REMAINING CI/TRACK CAPACITY
120	DTFXEXF			EXPLICIT FREE ADDRESS
120	DTFXEXFR	4		EXPLICIT FREE CI BLOCK NUMBER OR CCHH
124	DTFXEXR	1	D*33	R
125	DTFXSSOP	1	D*34	SSR OP CODE
126		2		RESERVED SSR WORKFIELD
128		4		RESERVED SSR WORKFIELD
12C	DTFXFXLL			FILE LOWER EXTENT
12C	DTFXFXLC	2		CC

DISP	NAME	LEN	KEY	DESCRIPTION
12E	DTFXFXLH	2		HH
130	DTFXFXUU			FILE UPPER EXTENT
130	DTFXFXUL			PBN OF FIRST BLOCK OF LAST CI IN THE EXTENT OR CCHH OF FIRST PHYSICAL RECORD OF LAST CI IN THE EXTENT
130	DTFXFXUC	2		CC
132	DTFXFXUH	2		HH
134	DTFXFXUR	1	D*35	RECORD NUMBER
135	DTFXRELL	4		RELATIVE CI NUMBER OF FIRST CI IN THIS EXTENT
139	DTFXHRBA	4		HIGH USED RBA
13D	DTFXCISB	2		NUMBER BLOCKS PER CI FOR FBA, PHYSICAL RECORDS PER CI FOR CI FORMAT CKD
13F	DTFXBCM1			NUMBER BLOCKS PER CI MINUS 1
13F	DTFXPRPT	2	D*36	PHYSICAL RECORDS PER TRACK FOR CI FORMAT CKD -- SPACE REQUIRED FPR EOF NON-CI FORMAT CKD
141	DTFX2BCI			TWICE NUMBER BLOCKS PER CI
141	DTFXTPC	2		TRACKS PER CYLINDER FOR CI FORMAT CKD
143	DTFX2BM1			TWICE BLOCKS PER CI MINUS 1
143	DTFXTPC1	2		TRACKS PER CYLINDER MINUS 1 FOR CI FORMAT CKD-- COUNT/GAP COMPUTATION CONSTANT FOR NON-CI FORMAT
145	DTFXCIM4	2		CISIZE MINUS 4 BYTES FOR CI FORMAT-TRACK CAPACITY FOR NON-CI FORMAT
147	DTFXCIMX	2	D*37	CISIZE MINUS 10 BYTES FOR CI FORMAT--COUNT/GAP OVERHEAD CONSTANT FOR NON-CI FORMAT CKD
149	DTFXSSRW	4		ADDRESS OF SSR AND LOGIC MODULE WORKAREA
14D	DTFXLHH	2		LOWER CYLINDER HEAD LIMIT FOR NON-CI CKD, 0 IF NOT SPLIT CYLINDER
14F	DTFXUHH	2	D*38	UPPER CYLINDER HEAD LIMIT FOR NON-CI FORMAT CKD

THIS IS A DESCRIPTION OF THE CCB BLOCK

8	CCBST		START CCB
8	CCBD		COMMAND CONTROL BLOCK
8	CCBLEN	0	MAP OF THE DOS CCB
8	CCBCNT	2	RESIDUAL COUNT
A	CCBERMAP	0	4 BYTES USED TO CHECK ERRORS

DISP	NAME	LEN	KEY	DESCRIPTION
A	CCBCOM1	1		COMMUNICATIONS BYTE NUMBER 1
	Values Defined in CCBCOM1			
	80 CCBWAIT			TRAFFIC BIT (SET AT CE)
	40 CCBEOF			END-OF-FILE
	20 CCBIOERR			UNRECOVERABLE I/O ERROR
	10 CCBERROK			ACCEPT UNRECOVERABLE ERROR
	08 CCBRDC			RETURN DATA CHECKS
	04 CCBPDE			POST AT DEVICE END
	02 CCBDCV			RETURN DATA CHECK RD/CHK
	01 CCBUERR			USER ERROR ROUTINE
B	CCBCOM2	1		COMMUNICATIONS BYTE NUMBER 2
	Values Defined in CCBCOM2			
	80 CCBDCCNT			DATA CHECK IN COUNT AREA
	40 CCBTRKOV			TRACK OVERRUN
	20 CCBEOC			END-OF-CYLINDER
	10 CCBDC			DATA CHECK
	08 CCBNOREC			NO-RECORD-FOUND
	04 CCBRETRY			RETRY NO RECORD FOUND
	02 CCBVER			VERIFY ERROR
	01 CCBCC			COMMAND CHAIN (RETRY)
C	CCBCSW1	1		CSW STATUS BIT NUMBER 1
	Values Defined in CCBCSW1			
	80 CCBATTN			ATTENTION
	40 CCBSTMOD			STATUS MODIFIER
	20 CCBCUE			CONTROL UNIT END
	10 CCBBUSY			BUSY
	08 CCBCE			CHANNEL END
	04 CCBDE			DEVICE END
	02 CCBUC			UNIT CHECK
	01 CCBUE			UNIT EXCEPTION
D	CCBCSW2	1		CSW STATUS BIT NUMBER 2
	Values Defined in CCBCSW2			
	80 CCBPCI			PROGRAM-CONTROLLED INTERRUPT
	40 CCBILEN			INCORRECT LENGTH
	20 CCBPROGM			PROGRAM CHECK
	10 CCBPROT			PROTECTION CHECK
	08 CCBCHAND			CHANNEL DATA CHECK
	04 CCBCHANC			CHANNEL CONTROL CHECK
	02 CCBICTRL			INTERFACE CONTROL CHECK
	01 CCBCHAIN			CHAINING CHECK
E	CCBSYMU	0		SYMBOLIC UNIT (SYSUN)
E	CCBSUCLS	1		U - LUB CLASS
F	CCBSUNUM	1		N - LUB NUMBER WITHIN CLASS
10	CCBLIOBS	1		RESERVED FOR LIOBS
11	CCBCCW	3		POINTER TO START OF CHANNEL PROGRAM
14	CCBCOM3	1		COMMUNICATION BYTE NUMBER 3
	Values Defined in CCBCOM3			
	40 CCBAPEND			APPENDAGE EXIT AT INTERRUPT
15	CCBCSW	3		PT TO CSW OR PT APPENDAGE RETURN

DISP	NAME	LEN	KEY	DESCRIPTION
18	CCBLDATB	4		ADDRESS OF LAST DATA BLOCK
1C	CCBLCCWB	4		ADDRESS OF LAST CCW BLOCK
20		4		AVAILABLE
24	CCBUFLGS	1		I/O MANAGER CCB FLAGS

Values Defined in CCBUFLGS

80	CCBUEAIC	ERROR ANALYSIS IN CONTROL
40	CCBUEAC	ERROR ANALYSIS COMPLETE
20	CCBURDCW	READ CCW ACTIVE
10	CCBRPS	RPS CHAN PGM CANDIDATE

25	CCBFSCCW	3		SAVE AREA FOR FIRST CCW ADDRESS
28	CCBRDCCW	4		ADDRESS OF FIRST READ CCW
2C	CCBWTCCW	4		ADDRESS OF FIRST WRITE CCW
30	CCBLWCCW	4		ADDRESS OF THE LAST WRITE CCW
34		12		AVAILABLE
40	CCBNCCB	4		ADDRESS OF NEXT CCB BLOCK
44		4		AVAILABLE

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

CCBAPEND	0014	40	CCBLCCWB	001C	..	CCBWTCCW	002C	..	DTFXCINR	00F8	..
CCBATTN	000C	80	CCBLDATB	0018	..	DMSCCB	0008	..	DTFXCISB	013D	..
CCBBUSY	000C	10	CCBLEN	0008	..	DTFXBCM1	013F	..	DTFXCISZ	0068	..
CCBCC	000B	01	CCBLIOBS	0010	..	DTFXBLSZ	00DC	..	DTFXCITL	00F2	08
CCBCCW	0011	..	CCBLWCCW	0030	..	DTFXBOE	0112	01	DTFXCI1	00E8	..
CCBCE	000C	08	CCBNCCB	0040	..	DTFXBOF	0113	80	DTFXCI1B	00EC	..
CCBCHAIN	000D	01	CCBNOREC	000B	08	DTFXBSL	0113	40	DTFXCI1C	00EC	..
CCBCHANC	000D	04	CCBPCI	000D	80	DTFXBSLR	0113	20	DTFXCI1H	00EE	..
CCBCHAND	000D	08	CCBPDE	000A	04	DTFXCBLI	0010	..	DTFXCI1N	00F4	..
CCBCNT	0008	..	CCBPROGM	000D	20	DTFXCBPI	0014	..	DTFXCI1P	00E8	..
CCBCOM1	000A	..	CCBPROT	000D	10	DTFXCBRC	0008	..	DTFXCI1R	00F0	..
CCBCOM2	000B	..	CCBRDC	000A	08	DTFXCBST	000C	..	DTFXCI11	00FA	..
CCBCOM3	0014	..	CCBRDCCW	0028	..	DTFXCBTC	000E	..	DTFXCI12	00F2	..
CCBCSW	0015	..	CCBRETRY	000B	04	DTFXCBTI	000A	..	DTFXCI13	00F3	..
CCBCSW1	000C	..	CCBRPS	0024	10	DTFXCCB	0008	..	DTFXCI14	00F9	..
CCBCSW2	000D	..	CCBST	0008	..	DTFXCCBI	0008	..	DTFXCPCP	006C	80
CCBCUE	000C	20	CCBSTMOD	000C	40	DTFXCCRC	004A	10	DTFXCWCN	00CC	40
CCBD	0008	..	CCBSUCLS	000E	..	DTFXCCRD	004A	80	DTFXCWCS	0015	..
CCBDC	000B	10	CCBSUNUM	000F	..	DTFXCCWA	0011	..	DTFXC1LF	0030	..
CCBDCCNT	000B	80	CCBSYMU	000E	..	DTFXCCWP	00B8	..	DTFXC1LP	0031	..
CCBDCV	000A	02	CCBTRKOV	000B	40	DTFXCCWS	00B8	..	DTFXC1UF	0034	..
CCBDE	000C	04	CCBUC	000C	02	DTFXCCWT	004A	40	DTFXC1UP	0035	..
CCBEOC	000B	20	CCBUE	000C	01	DTFXCCWU	004A	20	DTFXDEBC	00BE	..
CCBEOF	000A	40	CCBUEAC	0024	40	DTFXCCWW	00B8	..	DTFXDECF	00BC	..
CCBERMAP	000A	..	CCBUEAIC	0024	80	DTFXCEOX	006C	02	DTFXDEOC	00B8	..
CCBERROK	000A	10	CCBUERR	000A	01	DTFXCIMX	0147	..	DTFXDERS	00BD	..
CCBFSCCW	0025	..	CCBUFLGS	0024	..	DTFXCIM4	0145	..	DTFXDEXP	00B9	..
CCBICTRL	000D	02	CCBURDCW	0024	20	DTFXCIN	00F4	..	DTFXDFX1	00B8	..
CCBILEN	000D	40	CCBVER	000B	02	DTFXCINC	00F4	..	DTFXDIDI	006C	20
CCBIOERR	000A	20	CCBWAIT	000A	80	DTFXCINH	00F6	..	DTFXDSAP	004C	..

CROSS REFERENCE (Name Disp Value)

DTFXDTF	0054	..	DTFXFXUR	0134	..	DTFXNW	011D	..	DTFXSPR1	0114	..
DTFXDUMY	004C	..	DTFXFXUU	0130	..	DTFXNWCC	010D	..	DTFXSPR2	0115	..
DTFXDWCI	0116	04	DTFXHRBA	0139	..	DTFXNWH	010F	..	DTFXSSFT	0049	20
DTFXD1LF	0038	..	DTFXIDEN	0000	..	DTFXOCCW	0064	..	DTFXSSFW	0049	10
DTFXD1LP	0039	..	DTFXIOAD	0104	..	DTFXOCWP	0065	..	DTFXSSHD	0049	80
DTFXD1UF	003C	..	DTFXIOA1	00D0	..	DTFXODVT	00B4	..	DTFXSSIC	0116	..
DTFXD1UP	003D	..	DTFXIOEH	00F2	40	DTFXORSP	005C	..	DTFXSSIG	004B	40
DTFXECBI	000E	08	DTFXIOFL	0018	..	DTFXPBNR	00EC	..	DTFXSSLB	0110	..
DTFXEOFH	00F2	02	DTFXIOPT	0064	80	DTFXPONV	00F2	04	DTFXSSLC	0049	40
DTFXEOX	0112	80	DTFXIORB	000E	04	DTFXPRPT	013F	..	DTFXSSL1	0110	..
DTFXEOXH	00F2	80	DTFXIORP	00F2	10	DTFXRBFL	0018	..	DTFXSSL2	0111	..
DTFXERIP	0116	40	DTFXIOWP	00F2	20	DTFXRBPT	0019	..	DTFXSSOP	0125	..
DTFXERNM	004B	20	DTFXLBLN	0102	..	DTFXRCIC	011E	..	DTFXSSPR	0108	..
DTFXERXT	00C4	..	DTFXLBRD	011C	..	DTFXRCIN	010D	..	DTFXSSRW	0149	..
DTFXEXF	0120	..	DTFXLBTL	0112	08	DTFXRCIR	010C	..	DTFXSSR1	0117	..
DTFXEXFR	0120	..	DTFXLCBC	00FA	..	DTFXRELL	0135	..	DTFXSSSK	004B	80
DTFXEXR	0124	..	DTFXLCDD	00FC	..	DTFXREOC	0112	20	DTFXTPC	0141	..
DTFXE1LF	0040	..	DTFXLCOB	00F8	..	DTFXRETR	00F3	10	DTFXTPC1	0143	..
DTFXE1LP	0041	..	DTFXLCRC	00F9	..	DTFXRIOE	0116	08	DTFXTRAF	000A	80
DTFXE1UF	0044	..	DTFXLHH	014D	..	DTFXRLCI	010C	..	DTFXTRHD	00F9	20
DTFXE1UP	0045	..	DTFXLMEP	0116	02	DTFXRLC1	010C	..	DTFXTRNC	004B	08
DTFXFBAB	00B0	..	DTFXLMPT	006D	..	DTFXRLEN	0100	..	DTFXUHH	014F	..
DTFXFBAO	0050	..	DTFXLMSA	0070	..	DTFXRPIP	0116	80	DTFXULLX	00C8	..
DTFXFBLF	0028	..	DTFXLMSP	006C	..	DTFXRPS	0049	08	DTFXULUX	00CC	..
DTFXFBLP	0029	..	DTFXLMSW	006C	..	DTFXRQCP	0112	02	DTFXUPDT	004B	04
DTFXFBUF	002C	..	DTFXLOBC	00C6	..	DTFXRSVD	006C	01	DTFXUWRQ	00F3	20
DTFXFBUP	002D	..	DTFXLOCD	00F8	..	DTFXRSV1	0024	..	DTFXVALC	00F3	04
DTFXFLB1	0028	..	DTFXLOCF	00C4	..	DTFXRSV4	00D8	..	DTFXVER3	006C	08
DTFXFLC1	0030	..	DTFXLOC1	00C0	..	DTFXRWCF	00CC	..	DTFXVLBC	00D6	..
DTFXFLD1	0038	..	DTFXLOLP	00C1	..	DTFXRWCW	00C8	..	DTFXVLCF	00D4	..
DTFXFLE1	0040	..	DTFXLOOC	00C0	..	DTFXRWDP	00C9	..	DTFXVLLP	00D1	..
DTFXFLF1	0048	..	DTFXLORS	00C5	..	DTFXRWLN	00CE	..	DTFXVLOC	00D0	..
DTFXFLG1	0048	..	DTFXLSIO	00F3	02	DTFXRWOC	00C8	..	DTFXVLRS	00D5	..
DTFXFLS1	0028	..	DTFXMECP	0064	20	DTFXRWRS	00CD	..	DTFXVNOP	00D0	..
DTFXFL10	0049	..	DTFXMSWA	00BC	..	DTFXSARC	00F9	80	DTFXVYES	004B	01
DTFXFL20	004A	..	DTFXMTRQ	00F9	40	DTFXSCDF	0116	10	DTFXWEOC	0112	10
DTFXFL30	004B	..	DTFXNDTF	0058	..	DTFXSDSD	006C	40	DTFXWORK	004B	10
DTFXFORW	00F3	08	DTFXNHRB	0049	04	DTFXSDWF	006C	10	DTFXXLEN	0060	..
DTFXFREE	00F3	80	DTFXNIOA	004B	02	DTFXSEOF	0112	04	DTFXXRSV	00E9	..
DTFXFRVS	0064	40	DTFXNLBF	0112	40	DTFXSFSW	0064	..	DTFXXTFB	00EC	..
DTFXFWRQ	00F3	40	DTFXNLBO	0118	..	DTFXSIO1	00D4	..	DTFXXTFD	00F0	..
DTFXFXLC	012C	..	DTFXNOMT	0049	01	DTFXSIO2	00D8	..	DTFXXTLD	00F4	..
DTFXFXLH	012E	..	DTFXNPCC	010C	..	DTFXSKEX	0116	20	DTFXXTMB	00E8	..
DTFXFXLL	012C	..	DTFXNPCK	010C	..	DTFXSMWP	00C0	..	DTFXXTNT	00E8	..
DTFXFXUC	0130	..	DTFXNPH	010E	..	DTFXSPB1	0112	..	DTFX1411	0049	02
DTFXFXUH	0132	..	DTFXNPR	0110	..	DTFXSPB2	0113	..	DTFX2BCI	0141	..
DTFXFXUL	0130	..	DTFXNRDF	011A	..	DTFXSPRO	006C	04	DTFX2BM1	0143	..

EPLIST: EXTENDED PLIST DSECT

EPLIST is used to map the extended plist. EPLIST is found in the EPLIST macro.

0	EPLCMD	EPLARGBG
8	EPLARGND	////////////////////
10	EPARGLST	EPFUNRET

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	EPLCMD	4		ADDRESS OF COMMAND TOKEN
4	EPLARGBG	4		ADDRESS OF BEGINNING OF ARGUMENTS
8	EPLARGND	4		ADDRESS OF END OF ARGUMENTS
	Values Defined in EPLARGND			
B	EPLCMDFL			EXTENDED PLIST AVAILABLE FLAG
5	EPFUNSUB			EXTERNAL FUNCTIOM PLIST AVAILABLE
1	EPLFNCFL			EXTENDED PLIST AVAILABLE FLAG
C		4		RESERVED
10	EPARGLST	4		ADDRESS OF FUNCTION ARGUMENT LIST
14	EPFUNRET	4		ADDRESS FOR RETURN OF FUNCTION DATA

Note: The extended PLIST FLAGS indicate the presence of an extended PLIST in REGISTER 0. The high order byte of REGISTER 1 will contain either EPLCMDFL or EPLFNCFL to indicate that the extended PLIST is available. Only the first 4 words of the extended PLIST are available with these codes.

If the high order byte of REGISTER 1 contains EPFUNSUB, then the invocation is an external function/subroutine called from REXX. With this PLIST, all 6 words of the PLIST are available. Word 5 points to a list of doublewords ADLENS (ADDRESS-LENGTH PAIRS) that describes the arguments to the routine (EPARGLST). Word 6 (EPFUNRET) is the location for the called routine to store the address of an EVALBLOK to return data to the calling program.

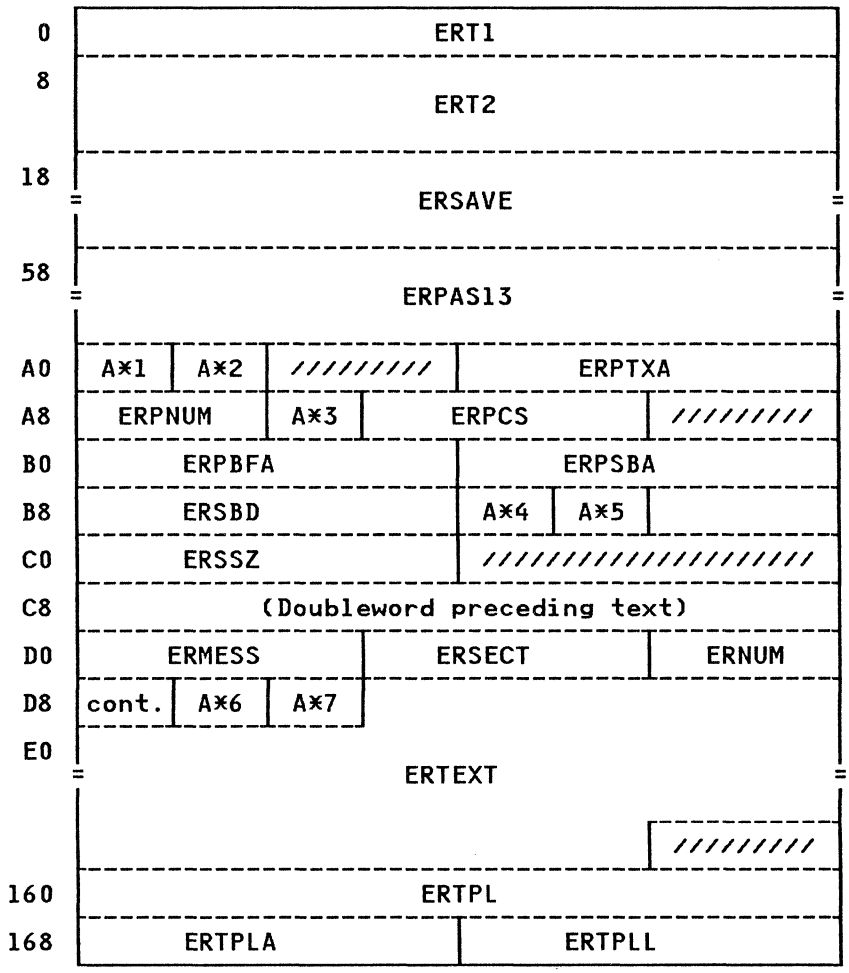
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
EPLARGBG 0004 ..    EPFUNRET 0014 ..    EPLARGND 0008 ..    EPLCMD   0000 ..
EPARGLST 0010 ..                                            EPLCMDFL 0008 0B
                                                            EPLFNCFL 0008 01
```

ERDSECT: ERROR HANDLING ROUTINE DSECT

ERDSECT describes the fields in a work area used for giving responses and errors via the DMSERR or LINKEDIT macros. The field NUCERT in NUCON points to the DMSERT CSECT in DMSNUC. ERDSECT is invoked by the DMSERT macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	ERT1	8		DOUBLEWORD WORKSPACE
8	ERT2	16		TWO DOUBLEWORDS WORKSPACE
SAVE AREA				
18	ERSAVE	64		

DISP	NAME	LEN	KEY	DESCRIPTION
58	ERPAS13	72		PASS THIS SAVE AREA IN REG 13 TO BALR'ED-TO ROUTINES
RECONSRUCTED PLIST AREA				
A0	ERPF1	1	A*1	FIRST FLAG BYTE
	Values Defined in ERPF1			
80	ERF1TX			TEXT ADDRESS IN PLIST
40	ERF1HD			HEADER IN PLIST
20	ERF1BF			BUFFER ADDRESS IN PLIST
10	ERF1SB1			ONE SUBSTITUTION
08	ERF1SBN			MULTIPLE SUBSTITUTIONS (> 1)
A1	ERPF2	1	A*2	SECOND FLAG BYTE
	Values Defined in ERPF2			
	(First three bits indicate 'DISP' field)			
80	ERF2CM			BLANK COMPRESSION WANTED
40	ERF2DT			DOT AT END OF LINE WANTED
20	ERF2DI			'DIE = YES' WANTED
	(Previous three bits indicate 'DISP' field)			
05	ERF2CP			CPCOMM
04	ERF2PR			PRINT
03	ERF2NO			NONE
02	ERF2SI			SIO
01	ERF2TY			TYPE
00	ERF2ER			ERRMSG
A2		2		RESERVED
A4	ERPTXA	4		TEXT ADDRESS
A8	ERPHDR	6		ERROR MESSAGE HEADER
A8	ERPNUM	2		MESSAGE NUMBER
AA	ERPLET	1	A*3	MESSAGE LETTER
AB	ERPCS	3		CSECT NAME
AE		2		RESERVED
B0	ERPBFA	4		BUFFER ADDRESS (FOR 'BUFFA')
FIELDS FOR SUBSTITUTIONS				
B4	ERPSBA	4		POINTER TO FIRST (NEXT) GROUP OF SUB PARAMS IN ORIGINAL
B8	ERSBD	4		DATA ADDRESS/VALUE OR CURRENT SUB
BC	ERSBF	1	A*4	SUB FLAG BYTE FOR CURRENT SUB
	Values Defined in ERSBF			
80	ERSFLST			THE LAST SUBSTITUTION PARAM
40	ERSFA			'A'-TYPE OPTION
20	ERSFL			LENGTH SPECIFIED
	(Previous three bits give option type)			
04	ERSFC8			CHAR8A
03	ERSFH4			HEX4A
02	ERSFC			CHARA
01	ERSFD			DEC OR DECA
00	ERSFH			HEX OR HEXA
BD	ERSBL	1	A*5	SUB LENGTH BYTE FOR CURRENT SUB

DISP	NAME	LEN	KEY	DESCRIPTION
BE		2		RESERVED
C0	ERSSZ	4		SIZE OF SUB FIELD (# DOTS - 1)
C4		4		RESERVED
MESSAGE CONSRUCTION AREA				
C8		8		NEED DOUBLEWORD BEFORE TEXT
D0	ERMESS	3		FIRST LETTERS OF HEADER
D3	ERSECT	3		DSECT NAME
D6	ERNUM	3		MESSAGE NUMBER
D9	ERLE	1	A*6	MESSAGE LEVEL LETTER
DA	ERBL	1	A*7	BLANK
Values Defined in ERBL				
82	ERTSIZE			MAX TEXT SIZE
DB	ERTEXT	131		MESSAGE TEXT AREA
'TYPLIN'/'PRINTR' PLIST CONSTRUCTION AREA				
160	ERTPL	8		
168	ERTPLA	4		MESSAGE TEXT ADDRESS
16C	ERTPLL	4		MESSAGE LENGTH

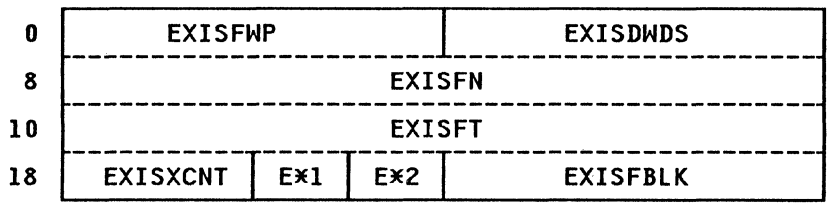
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

ERBL	00DA ..	ERF2SI	00A1 02	ERPNUM	00A8 ..	ERSFH	00BC 00
ERF1BF	00A0 20	ERF2TY	00A1 01	ERPSBA	00B4 ..	ERSFH4	00BC 03
ERF1HD	00A0 40	ERLET	00D9 ..	ERPTXA	00A4 ..	ERSFL	00BC 20
ERF1SBN	00A0 08	ERMESS	00D0 ..	ERSAVE	0018 ..	ERSFLST	00BC 80
ERF1SB1	00A0 10	ERNUM	00D6 ..	ERSBD	00B8 ..	ERSSZ	00C0 ..
ERF1TX	00A0 80	ERPAS13	0058 ..	ERSBF	00BC ..	ERTEXT	00DB ..
ERF2CM	00A1 80	ERPBFA	00B0 ..	ERSBL	00BD ..	ERTPL	0160 ..
ERF2CP	00A1 05	ERPCS	00AB ..	ERSECT	00D3 ..	ERTPLA	0168 ..
ERF2DI	00A1 20	ERPF1	00A0 ..	ERSFA	00BC 40	ERTPLL	016C ..
ERF2DT	00A1 40	ERPF2	00A1 ..	ERSFC	00BC 02	ERTSIZE	00DA 82
ERF2ER	00A1 00	ERPHDR	00A8 ..	ERSFC8	00BC 04	ERT1	0000 ..
ERF2NO	00A1 03	ERPLET	00AA ..	ERSFD	00BC 01	ERT2	0008 ..
ERF2PR	00A1 04						

EXISBLK: EXECS IN STORAGE CONTROL BLOCK

Each storage resident EXEC is represented by an EXISBLK on the EXIS chain. The EXIS chain is pointed to by the NUCEXIS field in NUCON. EXISBLK is found in EXISBLK macro.



SIZE

LENGTH IN BYTES (EXISBLKB) 20
LENGTH IN DOUBLEWORDS (EXISBLKD) 04

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	EXISFWP	4		CHAIN POINTER TO NEXT EXISBLK
4	EXISDWDS	4		DOUBLEWORDS OF STORAGE ALLOCATED
8	EXISFN	8		EXEC FILENAME
10	EXISFT	8		EXEC FILETYPE
18	EXISXCNT	2		EXEC EXECUTION COUNT
1A	EXISFLG	1	E*1	FLAG BYTE
	Values Defined in EXISFLG			
	80 EXISSYS			DENOTES "SYSTEM" EXEC --
	40 EXISDPDG			DENOTES DROP PENDING --
	20 EXISREXX			0 - EXEC2 1 - REXX
	10 EXISSHRD			EXEC RESIDES IN A DCSS
1B	EXISRLVL	1	E*2	EXEC RECURSION LEVEL
1C	EXISFBLK	4		EXEC FILEBLOCK POINTER

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

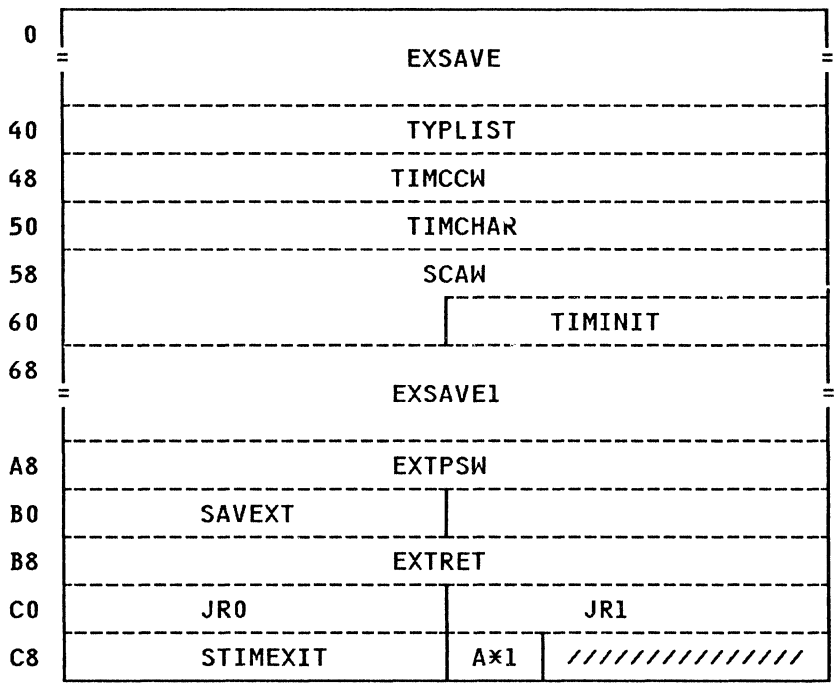
```
EXISBLKB .... 20    EXISDWDS 0004 ..    EXISFN   0008 ..    EXISREXX 001A 20
EXISBLKD .... 04    EXISFBLK 001C ..    EXISFT   0010 ..    EXISRLVL 001B ..
EXISDPDG 001A 40    EXISFLG  001A ..    EXISFWP  0000 ..  | EXISSHRD 001A 10
```

CROSS REFERENCE (Name Disp Value)

EXISSYS 001A 80
EXISXCNT 0018 ..

EXTSECT: EXTERNAL INTERRUPT WORK AREA

EXTSECT describes the fields in the external interrupt work area referenced by DMSITE. EXTSECT is pointed to by the AEXTSECT field in NUCON. EXTSECT is invoked via the EXTSECT macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	EXSAVE	64		SAVED REGISTERS
40	TYPLIST	8		P-LIST TO TYPE BLIP-CHAR'S
48	TIMCCW	8		
50	TIMCHAR	8		BLIP-CHARACTER(S)
58	SCAW	12		SAVED CSW-CAW
64	TIMINIT	4		VALUE TO SET TIMER = 2 SECONDS
STORAGE FOR EXTERNAL (OTHER THAN TIMER) INTERRUPT				
68	EXSAVE1	64		SAVED REGISTERS
A8	EXTPSW	8		FILLED-IN PSW...
B0	SAVEXT	4		TRANSFER-ADDRESS FOR EXTERNAL INTERRUPT

DISP	NAME	LEN	KEY	DESCRIPTION
B4		4		ADDRESS IN DEBUG FOR EXT. INT.
STORAGE FOR EXTERNAL INTERRUPT SET UP BY 'TRAP'				
B8	EXTRET	8		SAVED EXT-OLD-PSW
C0	JR0	4		22 DOUBLEWORDS FOR FPRS & USER-SAVEAREA
C4	JR1	4		ADDRESS OF FREE STORAGE
C8	STIMEXIT	4		ADDRESS OF STIMER EXIT ROUTINE
CC	EXTFLAG	1	A*1	
Values Defined in EXTFLAG				
80	REALTIMR			REAL TIMER INDICATOR
CD		3		RESERVED

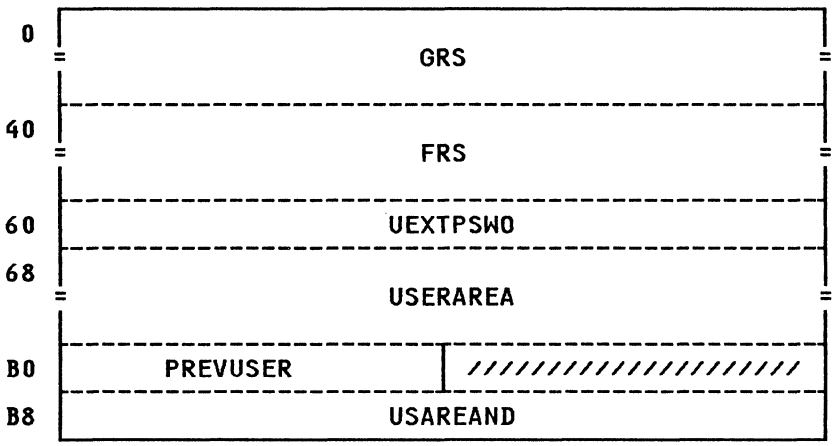
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

EXSAVE	0000	..	EXTRET	00B8	..	SAVEXT	00B0	..	TIMCHAR	0050	..
EXSAVE1	0068	..	JR0	00C0	..	SCAW	0058	..	TIMINIT	0064	..
EXTFLAG	00CC	..	JR1	00C4	..	STIMEXIT	00C8	..	TYPLIST	0040	..
EXTPSW	00A8	..	REALTIMR	00CC	80	TIMCCW	0048	..			

EXTUAREA: EXTERNAL USER AREA

EXTUAREA is a 96-byte user area generated by the CMSAVE macro. The pointer to the user area is passed to the user via register 13. The USAVEPTR field in CMSAVE also points to the user area.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	GRS	64		REGS AT TIME OF INTERRUPT P3048
40	FRS	32		FLOAT REGS AT INTERRUPT P3048
60	UEXTPSWO	8		EXTERNAL OLD PSW AT INTERRUPT P3048
68	USERAREA	72		USER SAVE AREA P3048
B0	PREVUSER	4		POINTER TO PREVIOUS USER AREA
B4		4		RESERVED
B8	USAREAND	8		END USER AREA

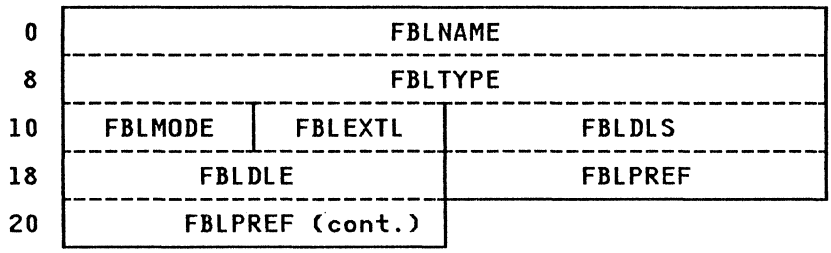
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
FRS       0040 ..    PREVUSER 00B0 ..    UEXTPSWO 0060 ..    USAREAND 00B8 ..
GRS       0000 ..                                            USERAREA 0068 ..
```

FBLOCK: EXEC FILE EXECUTION CONTROL BLOCK

FBLOCK contains information used by EXEC2 or the System Product Interpreter (REXX) to execute an EXEC. A pointer to the FBLOCK is provided in the PLIST when the appropriate interpreter is called to execute the EXEC. FBLOCK is found in FBLOCK macro.



SIZE

Length of FBLOCK in bytes (FBLLENL) 24
Length of fileid (FBLLFI) 12
Length of FBLOCK in doublewords (FBLLEND) 05

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	FBLNAME	8		Filename
8	FBLTYPE	8		Filetype
10	FBLMODE	2		Filemode
12	FBLEXTL	2		Extension block length (words)
14	FBLDLS	4		Descriptor list start
18	FBLDLE	4		Descriptor list end
1C	FBLPREF	8		Explicit initial prefix

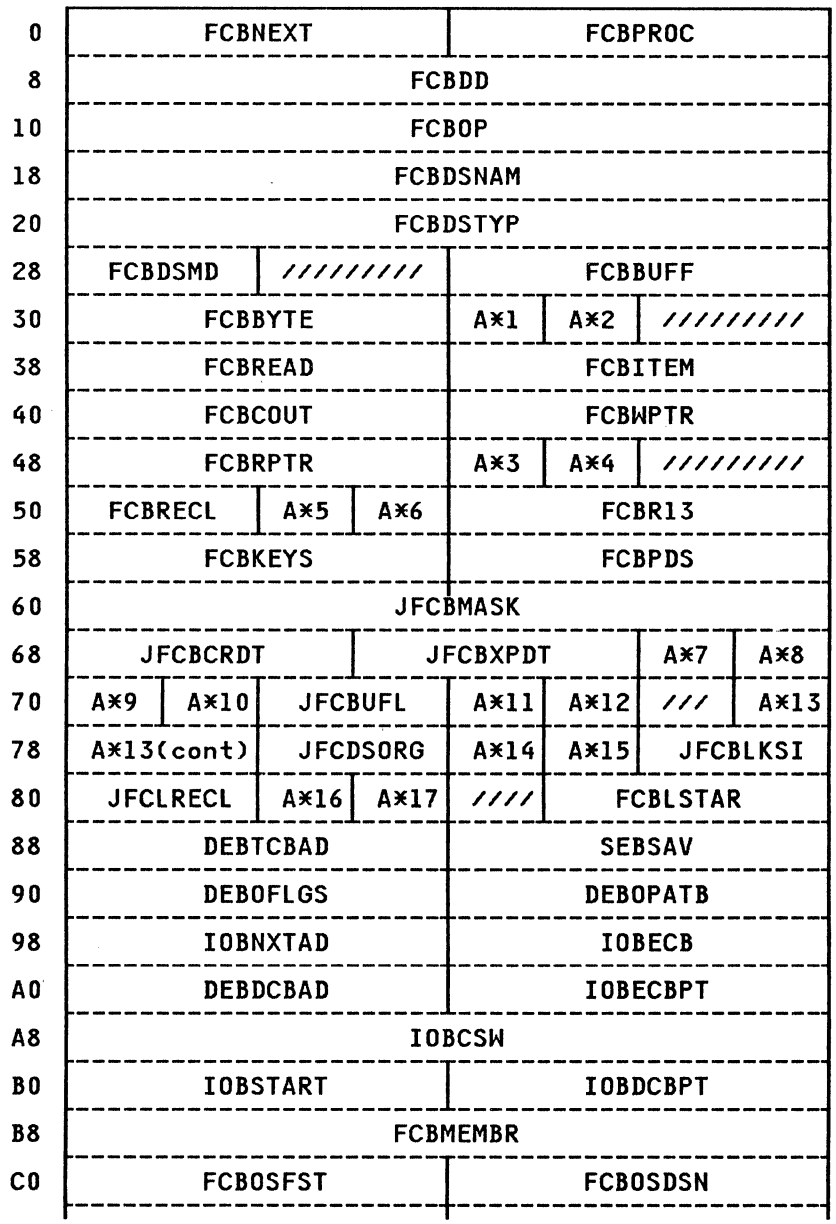
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

FBLDLE	0018 ..	FBLLEND	 05	FBLMODE	0010 ..	FBLPREF	001C ..
FBLDLS	0014 ..	FBLLENL	 24	FBLNAME	0000 ..	FBLTYPE	0008 ..
FBLEXTL	0012 ..	FBLLFI	 12				

FCBSECT: SIMULATED OS CONTROL BLOCKS

FCBSECT consists of the CMS file control block (FCB) used for file management under CMS, the simulated OS job file control block (JFCB), input/output block (IOB), and data extent block (DEB). FCBSECT is invoked via the CMSCB macro. FCBSECT is dynamically allocated from CMS free storage each time the FILEDEF command is issued.



C8	FCBXTENT		FCBTEOV	
D0	FCBTSAVE		A*18 A*19	FCBVSEQ
D8	FCBTVIPL		FCBSYSPA	
E0	FCBSYSPL			

- Format of Location X'24' for Console Device

20			FCBIOOUT
28	FCBIOOUT (cont.)		FCBIOBUF
30	A*16	A*17	FCBIOCNT

SIZE

SIZE OF FCB ENTRY IN DOUBLEWORDS (FCBENSIZ) 1B

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	FCBINIT	1		INTERESTING TIDBITS

Values Defined in FCBINIT

80	FCBDID	ASSOCIATE DDNAME WITH ENTIRE DISK FOR DISKID USAGE
40	FCBCATLD	CONCATENATED OS LOADLIB
20	FCBDOSL	CONCATENATED DOSLIB DATA SET
10	FCBOS	FCB FOR OS FORMATTED DISK
08	FCBOPCB	OPEN ACQUIRED THIS CMS BLOCK
04	FCBPERM	PERMANENT CONTROL BLOCK
02	FCBBATCH	SPECIAL BATCH DATA SET
01	FCBCATML	CONCATENATED MACLIB DATA SET

0	FCBNEXT	4		AL3(NEXT CMSCB)
4	FCBPROC	4		A(SPECIAL PROCESSING ROUTINE)
8	FCBDD	8		DATA DEFINITION NAME
10	FCBOP	8		CMS OPERATION
18	IHAJFCB	0		*** JOB FILE CONTROL BLOCK ***
18	JFCBDSNM	0		44 BYTES, DATA SET NAME
18	FCBDSNAM	8		DATA SET NAME
20	FCBDSTYP	8		DATA SET TYPE
24	FCBPRPU			PRINTER/PUNCH COMMAND LIST
28	FCBTBSP	0		2 BYTES, TAPE BACKSPACE COUNT
28	FCBDSMD	2		DATA SET MODE
2A		2		RESERVED
2C	FCBBUFF	4		A(INPUT-OUTPUT BUFFER)
30	FCBBYTE	4		DATA COUNT

DISP	NAME	LEN	KEY	DESCRIPTION
34	FCBFORM	1	A*1	FILE FORMAT: FIXED/VARIABLE RECORDS
35	FCBEPL	1	A*2	EXTENDED PLIST FLAG
36		2		RESERVED
38	FCBREAD	4		N'BYTES ACTUALLY READ
3C	FCBITEM	4		EXTENDED PLIST ITEM COUNT
40	FCBCOUT	4		EXTENDED PLIST RECORDS / PHYSICAL BLOCK
44	FCBWPTR	4		EXTENDED PLIST WRITE POINTER
48	FCBRPTR	4		EXTENDED PLIST READ POINTER
4C	FCBDEV	1	A*3	DEVICE TYPE CODE

Values Defined in FCBDEV

1C	FCBCRT	CRT
18	FCBPCH	PUNCH
14	FCBDSK	DISK
10	FCBTAP	TAPE
0C	FCBCON	CONSOLE TERMINAL
08	FCBRDR	READER
04	FCBPTR	PRINTER
00	FCBDUM	DUMMY DEVICE

4D	FCBMODE	1	A*4	MODE: 1,2,3,4,5
4E		2		RESERVED
50	FCBRECL	2		DCB LRECL AT OPEN TIME
52	IOBIOFLG	1	A*5	I/O FLAGS
53	FCBDCBCT	1	A*6	NUMBER OF DCB'S USING THIS FCB
54	FCBR13	4		SAVEAREA VECTOR R13
58	FCBKEYS	4		A(DDS IN'CORE KEY TABLE)
5C	FCBPDS	4		A(PDS IN-CORE DIRECTORY)
60	JFCBMASK	8		VARIOUS MASK BITS
68	JFCBCRDT	3		DATA SET CREATION DATE (YDD)
6B	JFCBXPDT	3		DATA SET EXPIRATION DATE (YDD)
6E	JFCBIND1	1	A*7	INDICATOR ONE
6F	JFCBIND2	1	A*8	INDICATOR TWO
70	JFCBUFNO	1	A*9	NUMBER OF BUFFERS
71	JFCBFTEK	0		BUFFERING TECHNIQUE
71	JFCBFALN	1	A*10	BUFFER ALIGNMENT
72	JFCBUFL	2		BUFFER LENGTH
74	JFCEROPT	1	A*11	ERROR OPTION
75	JFCKEYLE	1	A*12	KEYLENGTH
76		1		---NOT USED---

DISP	NAME	LEN	KEY	DESCRIPTION
77	JFCLIMCT	3	A*13	BDAM SEARCH LIMIT
7A	FCBDSORG	0		DATA SET ORGANIZATION
7A	JFCDSORG	2		
7C	FCBRECFM	0		RECORD FORMAT
7C	JFCRECFM	1	A*14	
7D	JFCOPTCD	1	A*15	OPTION CODES
7E	FCBBLKSZ	0		BLOCK SIZE
7E	JFCBLKSI	2		
80	FCBLRECL	0		LOGICAL RECORD LENGTH
80	JFCLRECL	2		
82	FCBIOSW	1	A*16	I/O OPERATION INDICATOR

Values Defined in FCBIOSW

80	FCBCLOSE	DURING "CLOSE"
40	FCBCLEAV	DISP = LEAVE DURING CLOSE
20	FCBPROCC	GOTO FCBPROC DURING CLOSE
10	FCBPROCO	GOTO FCBPROC DURING OPEN
08	FCBCASE	ON=LOWER CASE CONSOLE I/O
04	FCBPVMB	PUT-MOVE-VAR-BLK
02	FCBIOWR	WRITE/PUT
01	FCBIORD	READ/GET

83	FCBIOSW2	1	A*17	I/O OPERATION INDICATORS

Values Defined in FCBIOSW2

80	FCBWRTSW	INDICATE DCB OPEN FOR WRITE
40	FCBADTOS	INDICATE OS FORMATTED DISK
08	FCBMVFIL	MOVEFILE IS ACTIVE
02	FCBMMV	MOVE PDS SWITCH FOR FIND
01	FCBMVPDS	SW FOR MOVEFILE WITH PDS OPTION

84	DEBLNGTH	0		LENGTH OF DEB IN DOUBLEWORDS

Values Defined in DEBLNGTH

40	FCBTCLOS	A CLOSE TYPE T WAS DONE

84		4		---NOT USED---
88	IHADEB	0		*** DATA EXTENT BLOCK ***
88	DEBTCBAD	4		A(MOVE-MODE USER BUFFER)
8C	SEBSAV	4		DYNAMIC SAVE FOR RETURN ADDRESS FOR SEB (OS I/O SIM)
90	DEBOFLGS	4		DATA SET STATUS FLAGS
94	DEBOPATB	4		OPEN/CLOSE OPTION BYTE
98	IOBFLG	0		(START OF IOBPREFIX FOR NORMAL SCHEDULING)

Values Defined in IOBFLG

40	IOBOUT	"WRITE,PUT" IN PROGRESS
20	IOBIN	"READ,GET" IN PROGRESS
10	IOBUPD	"QSAM PUTX" IN PROCESS
00	IOBBFLG	DISPLACEMENT OF IOB FLAG IN IOB

DISP	NAME	LEN	KEY	DESCRIPTION
98	IOBNXTAD	4		A(NEXT BUFFER TO BE USED)
9C	IOBECB	4		ECB FOR QSAM NORMAL SCHEDULING
A0	IHAIOB	0		*** INPUT/OUTPUT BLOCK ***
A0	DEBDEBID	0		DEB IDENTIFICATION
A0	DEBDCBAD	4		A(DATA CONTROL BLOCK)
A4	IOBECBCC	0		ECB COMPLETION CODE
	Values Defined in IOBECBCC			
0C	IOBBECBC			DISPLACEMENT OF ECB CODE IN IOB
0C	IOBBECBP			DISPLACEMENT OF ECB POINTER IN IOB
A4	IOBECBPT	4		A(EVENT CONTROL BLOCK)
A8	IOBFLAG3	0		I/O ERROR FLAG
	Values Defined in IOBFLAG3			
10	IOBBCSW			DISPLACEMENT OF CSW IN IOB
A8	IOBCSW	8		LAST CCW STORED (I.E., RESIDUAL COUNT)
B0	IOBSTART	4		X'ID-NEXT BUFFER' ,AL3(INITIAL BUFFER)
B4	IOBDCBPT	4		A(DATA CONTROL BLOCK)
B8	IOBEND	0		END-OF-INPUT/OUTPUT BLOCK
B8	FCBMEMBR	8		OS PDS MEMBER NAME
C0	FCBOSFST	4		POINTER TO OS FST
C4	FCBOSDSN	4		POINTER TO OS DSNAME BLOCK
C8	FCBXTENT	4		NUMBER OF ITEMS IN EXTENT
CC	FCBTEOV	4		ADDRESS OF TEOVEXIT ROUTINE
D0	FCBTSAVE	4		ADDRESS OF SYSTEM REGISTER SAVE AREA FOR TEOVEXIT
D4	FCBFLAG1	1	A*18	MISCELLANEOUS FLAG BITS
	Values Defined in FCBFLAG1			
80	FCBTEOVS			TAPE-END-OF-VOLUME EXIT AVAILABLE
40	FCBTEOVA			TEOV EXIT IS ACTIVE
20	FCBMVOL			PROCESSING MULTIVOLUME FILE
10	FCBVSECT			PROCESSING VOLIDS FROM A VOLSECT
08	FCBMTCAN			TAPE MOUNT CANCELED FROM DMSTVS
04	FCBAMODE			FCBMODE SET FOR ALTERNATE DRIVE
D5	FCBVCTR	1	A*19	VOLID COUNTER
D6	FCBVSEQ	2		TAPE VOLUME SEQUENCE NUMBER
D8	FCBEND	0		END-OF FCB, JFCB, DEB, IOB BLOCKS
D8	FCBTVIPL	4		DMSTVI PLIST ADDRESS
DC	FCBSYSPA	4		SYSPARM STRING ADDRESS

DISP	NAME	LEN	KEY	DESCRIPTION
E0	FCBSYSPL	2		SYSPARM STRING LENGTH(DWORDS)
	SPECIAL FIELDS FOR TAPE FILES ONLY			
18	FCBTAPID	4		TAPE IDENTIFICATION
1C	FCBLABT	1		TAPE LABEL TYPE
	Values Defined in FCBLABT			
20	FCBNL			NO LABELS
10	FCBNSLMD			NSL ROUTINE IS A MODULE
08	FCBNSL			NONSTANDARD USER LABELS
06	FCBSUL			IBM AND USER STANDARD LABELS
04	FCBUSER			USER STANDARD LABELS
02	FCBSL			IBM STANDARD LABELS
01	FCBBLP			BYPASS LABELS - JUST POSITION TAPE
00	FCBOFF			NO LABEL PROCESSING AT ALL
1D	FCBTPSW	1		TAPE SWITCH
	Values Defined in FCBTPSW			
80	FCBLEAVE			DO NOT REPOSITION TAPE FOR OPEN
40	FCBNOEOV			DO NOT DO ANY EOV PROCESSING AT ALL
1E	FCBPOS	2		POSITION PARAMETER
20	FCBNSLNM	8		NSL ROUTINE NAME
24	FCBIOOUT	8		SPECIAL I/O COMMAND LIST
2C	FCBIOBUF	4		A(DATA BUFFER)
30	FCBCONCR	1	A*18	CONSOLE COLOR CODE
31	FCBCONMS	1	A*19	CONSOLE MISCELLANEOUS INFORMATION
32	FCBIOCNT	2		L'DATA BUFFER
B8	FCBLABPT	4		POINTER TO LABSECT
BC	FCBBLKCT	4		BLOCK COUNT FOR TAPE FILE

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

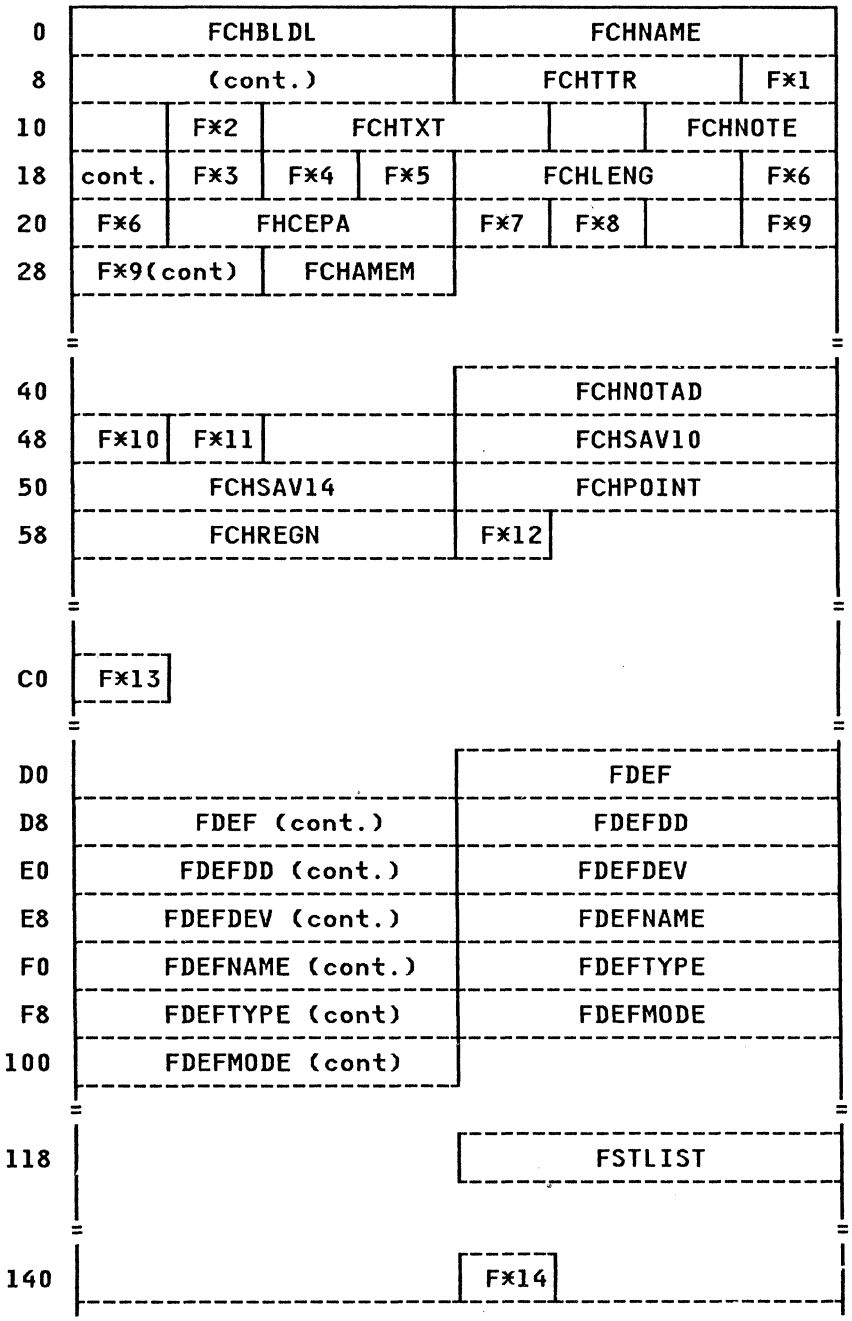
DEBDCBAD	00A0	..	FCBCASE	0082	08	FCBDOSL	0000	20	FCBIOCNT	0032	..
DEBDEBID	00A0	..	FCBCATLD	0000	40	FCBDSK	004C	14	FCBIOOUT	0024	..
DEBLNGTH	0084	..	FCBCATML	0000	01	FCBDSMD	0028	..	FCBIORD	0082	01
DEBOFLGS	0090	..	FCBCLEAV	0082	40	FCBDSNAM	0018	..	FCBIOSW	0082	..
DEBOPATB	0094	..	FCBCLOSE	0082	80	FCBDSORG	007A	..	FCBIOSW2	0083	..
DEBTCBAD	0088	..	FCBCON	004C	0C	FCBDSTYP	0020	..	FCBIOWR	0082	02
FCBADTOS	0083	40	FCBCONCR	0030	..	FCBDUM	004C	00	FCBITEM	003C	..
FCBAMODE	00D4	04	FCBCONMS	0031	..	FCBEND	00D8	..	FCBKEYS	0058	..
FCBBATCH	0000	02	FCBCOUT	0040	..	FCBENSIZ	0000	1A	FCBLABPT	00B8	..
FCBBLKCT	00BC	..	FCBCRT	004C	1C	FCBEPL	0035	..	FCBLABT	001C	..
FCBBLKSZ	007E	..	FCBDCBCT	0053	..	FCBFLAG1	00D4	..	FCBLEAVE	001D	80
FCBBLP	001C	01	FCBDD	0008	..	FCBFORM	0034	..	FCBLRECL	0080	..
FCBBUFF	002C	..	FCBDEV	004C	..	FCBINIT	0000	..	FCBLSTAR	0085	..
FCBBYTE	0030	..	FCBDID	0080	..	FCBIOBUF	002C	..	FCBMEMBR	00B8	..

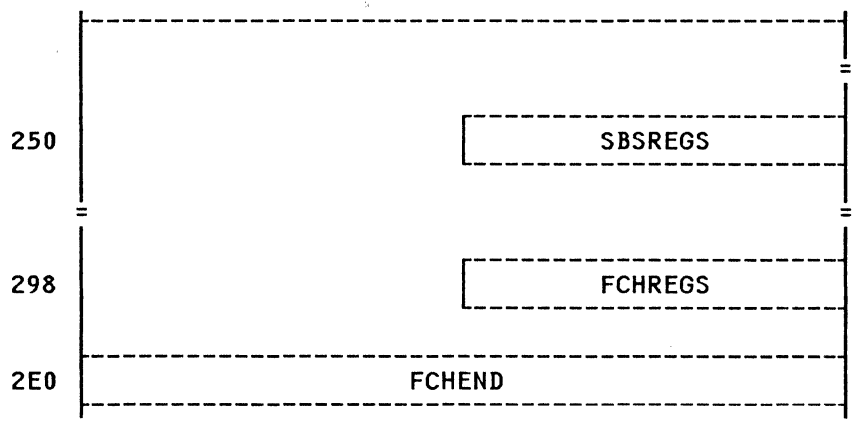
CROSS REFERENCE (Name Disp Value)

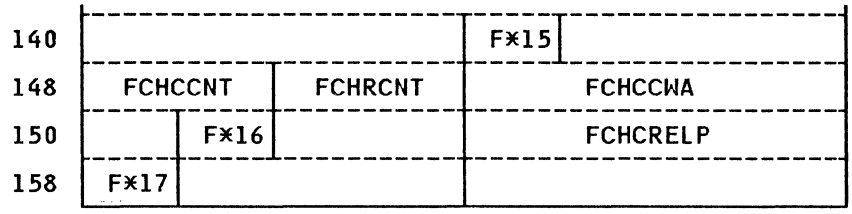
FCBMMV	0083	02	FCBPROCO	0082	10	FCBVCTR	00D5	..	IOBNXTAD	0098	..
FCBMODE	004D	..	FCBPRPU	0020	24	FCBVSECT	00D4	10	IOBOUT	0098	40
FCBMTCAN	00D4	04	FCBPTR	004C	04	FCBVSEQ	006D	..	IOBSTART	00B0	..
FCBMVFIL	0083	08	FCBPVMB	0082	04	FCBWPTR	0044	..	IOBUPD	0098	10
FCBMVOL	00D4	20	FCBRDR	004C	08	FCBWRTSW	0083	80	JFCBCRDT	0068	..
FCBMVPDS	0083	01	FCBREAD	0038	..	FCBXTENT	00C8	..	JFCBDSNM	0018	..
FCBNEXT	0000	..	FCBRECFM	007C	..	IHADEB	0088	..	JFCBFALN	0071	..
FCBNL	001C	20	FCBRECL	0050	..	IHAIOB	00A0	..	JFCBFTEK	0071	..
FCBNOEOV	001D	40	FCBRPTR	0048	..	IHAJFCB	0018	..	JFCBIND1	006E	..
FCBNSL	001C	08	FCBR13	0054	..	IOBBCSW	00A8	10	JFCBIND2	006F	..
FCBNSLMD	001C	10	FCBSL	001C	02	IOBBECBC	00A4	0C	JFCBLKSI	007E	..
FCBNSLNM	0020	..	FCBSUL	001C	06	IOBBECBP	00A4	0C	JFCBMASK	0060	..
FCBOFF	001C	00	FCBSYSPA	00DC	..	IOBBFLG	0098	00	JFCBUFL	0072	..
FCBOP	0010	..	FCBSYSPL	00E0	..	IOBCSW	00A8	..	JFCBUFNO	0070	..
FCBOPCB	0000	08	FCBTAP	004C	10	IOBDCBPT	00B4	..	JFCBXPDT	006B	..
FCBOS	0000	10	FCBTAPID	0018	..	IOBECB	009C	..	JFCDSORG	007A	..
FCBOSDSN	00C4	..	FCBTBSP	0028	..	IOBECBCC	00A4	..	JFCEROPT	0074	..
FCBOSFST	00C0	..	FCBTCLOS	0084	40	IOBECBPT	00A4	..	JFCKEYLE	0075	..
FCBPCH	004C	18	FCBTEOVA	00D4	40	IOBEND	00B8	..	JFCLIMCT	0077	..
FCBPDS	005C	..	DCBTEOVS	00D4	80	IOBFLAG3	00A8	..	JFCLRECL	0080	..
FCBPERM	0000	04	FCBTPSW	001D	..	IOBFLG	0098	..	JFCOPTCD	007D	..
FCBPOS	001E	..	FCBTVIPL	00D8	..	IOBIN	0098	20	JFCRECFM	007C	..
FCBPROC	0004	..	FCBUSER	001C	04	IOBIOFLG	0052	..	SEBSAV	008C	..
FCBPROCC	0082	20									

FCHSECT: FETCH WORK AREA

FCHSECT contains a BLDL list, note list address, DCB, DECB, point field, FILEDEF PLIST, read buffer, and register save areas. The NUCAFCHS field in the NUCON control block points to the fetch work area.







SIZE

LENGTH OF FILEDEF PLIST (FDEFLEN) 48
LENGTH OF STATE PLIST (FSTTLEN) 28

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	FCHBLDL	4		BLDL LIST
4	FCHNAME	8		MODULE NAME
C	FCHTTR	3		MODULE TTR ADDRESS
F	FCHCONC	1	F*1	CONCATENATION NUMBER
11	FCHMISC	1	F*2	ALIAS INDICATOR AND MISC INFORMATION
12	FCHTXT	3		TTR OF FIRST TEXT RECORD
16	FCHNOTE	3		TTR OF NOTE OR SCATTER LIST
19	FCHNNOTE	1	F*3	NUMBER OF NOTE LIST ENTRIES
THE FOLLOWING SETTINGS REPRESENT THE 'ON' CONDITION				
1A	FCHATT1	1	F*4	MODULE ATTRIBUTES

Values Defined in FCHATT1

80	FCHRENT	THE MODULE IS REENTERABLE
40	FCHREUS	THE MODULE IS REUSEABLE
20	FCHOVLY	THE MODULE IS OVERLAY MODULE
10	FCHTEST	THE MODULE IS UNDER TEST
08	FCHLOAD	THE MODULE IS ONLY LOADABLE
04	FCHSCAT	THE MODULE HAS SCTR FORMAT
02	FCHEXEC	THE MODULE IS EXECUTABLE
01	FCH1TXT	THE MODULE HAS 1 TXT, NO RLD

DISP	NAME	LEN	KEY	DESCRIPTION
1B	FCHATT2	1	F*5	MORE ATTRIBUTES
	Values Defined in FCHATT2			
80	FCHLEDE			THE MODULE NO RELINK BY 'E'
40	FCHORIG			THE ORIGIN OF 1ST TXT = 0
20	FCHENTP			THE MODULE ENTRY POINT = 0
10	FCHNRLD			THE MODULE HAS NO RLD RECS
08	FCHEDIT			THE MODULE CAN'T BE RELINKED
04	FCHTRAN			THE MODULE HAS TESTRAN RECS
02	FCHCOMP			THE MODULE LINK-EDITED
01	FCHREFR			THE MODULE IS REFRESHABLE
1C	FCHLENG	3		MODULE LENGTH
1F	FCHTXTL	2	F*6	LENGTH OF 1ST TEXT RECORD
21	FCHEPA	3		ASSIGNED ENTRY POINT ADDRESS
24	FCHATT3	1	F*7	ATTRIBUTE FIELD NUMBER 2
	Values Defined in FCHATT3			
80	FCHLVS			PROCESSED BY OS/VS L.E.
40	FCHRES1			RESERVED UNUSED
20	FCHPAG			PAGE ALIGNMENT REQ'D
10	FCHSSI			SSI PRESENT
25	FCHRES2	1	F*8	UNUSED ATTRIBUTE BYTES
THE FOLLOWING FIELDS ONLY APPLY WHEN AN ALIAS IS USED				
27	FCHAENT	3	F*9	ENTRY POINT ADDRESS OF MEMBER
2A	FCHAMEM	8		MEMBER NAME
44	FCHNOTAD	4		ADDRESS OF NOTE LIST
48	FCHFLAG	1	F*10	FETCH PROCESS FLAG
49	FCHOFLG	1	F*11	2ND FETCH FLAG BYTE
4C	FCHSAV10	4		SAVE AREA FOR REG 10
50	FCHSAV14	4		SAVE AREA FOR REG 14
54	FCHPOINT	4		POINT BUFFER
58	FCHREGN	4		POINTER TO LAST REGN RELOCATED
5C	FCHDCB	1	F*12	$SYSLIB DCB
C0	FCHDECB	1	F*13	DECB WORK AREA
D4	FDEF	8		CMS COMMAND
DC	FDEFDD	8		DDNAME
E4	FDEFDEV	8		DEVICE
EC	FDEFNAME	8		DEFAULT FILENAME
F4	FDEFTYPE	8		FILE TYPE
FC	FDEFMODE	8		ANY MODE
104		8		START OF OPTIONS
10C		8		CONCATENATION

DISP	NAME	LEN	KEY	DESCRIPTION
114		1		STANDARD FENCE
11C	FSTLIST	8		CMS COMMAND
124		8		DEFAULT LIBRARY NAME
12C		8		LIBRARY TYPE
134		8		LIBRARY MODE
13C		1		FENCE
144	FCHRLDBF	1	F*14	BUFFER FOR MODULE INPUT
	Values Defined in FCHRLDBF			
	BUFLEN			270 EQUATE FOR BUFFER LENGTH
254	SBSREGS	4		REG SAVE AREA FOR READ
29C	FCHREGS	4		REGISTER SAVE AREA
2E0	FCHEND	8		END OF FETCH WORK AREA DSECT
	Values Defined in FCHEND			
	78 FCHCLRLN			FDEF-FCHDCB: LENGTH OF AREA TO CLEAR
	00 FCHSCTLN			FCHEND-FCHSECT: LENGTH OF FETCH WORK AREA
144	FCHCID	1	F*15	IDENTIFICATION
148	FCHCCNT	2		BYTE COUNT OF CONTROL INFORMATION
14A	FCHRCNT	2		BYTE COUNT OF RLD INFORMATION
14C	FCHCCWA	4		ADDRESS PORTION OF CCW
151	FCHCCWL	1	F*16	LENGTH PORTION OF CCW
154	FCHCRELP	4		R AND P INFORMATION
158	FCHCFLAG	1	F*17	FLAG BYTE
	Values Defined in FCHCFLAG			
	60 FLRELOC			RECORD TO BE RELOCATED
	02 FLSUBTR			SUBTRACT OFFSETS
	01 FLNORP			NO R AND P FOLLOWING

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

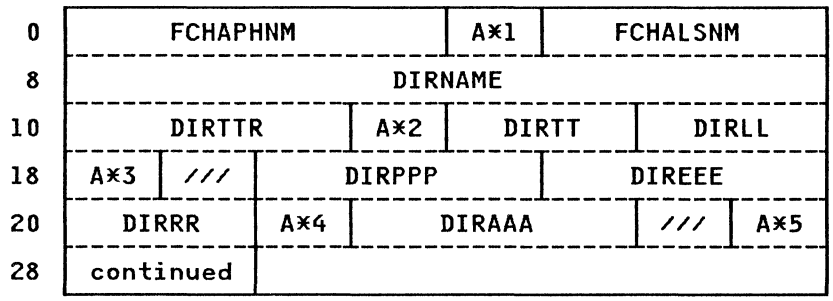
BUFLEN	0144 **	FCHCCWA	014C ..	FCHDCB	005C ..	FCHLEDE	001B 80
FCHAENT	0027 ..	FCHCCWL	0151 ..	FCHDECB	00C0 ..	FCHLENG	001C ..
FCHAMEM	002A ..	FCHCFLAG	0158 ..	FCHEDIT	001B 08	FCHLOAD	001A 08
FCHATT1	001A ..	FCHCID	0144 ..	FCHEND	02E0 ..	FCHLVS	0024 80
FCHATT2	001B ..	FCHCLRLN	02E0 78	FCHENTP	001B 20	FCHMISC	0011 ..
FCHATT3	0024 ..	FCHCOMP	001B 02	FCHEPA	0021 ..	FCHNAME	0004 ..
FCHBLDL	0000 ..	FCHCONC	000F ..	FCHEXEC	001A 02	FCHNNOTE	0019 ..
FCHCCNT	0148 ..	FCHCRELP	0154 ..	FCHFLAG	0048 ..	FCHNOTAD	0044 ..

CROSS REFERENCE (Name Disp Value)

FCHNOTE	0016 ..	FCHRENT	001A 80	FCHSSI	0024 10	FDEFLEN	 48
FCHNRLD	001B 10	FCHRES1	0024 40	FCHTEST	001A 10	FDEFMODE	00FC ..
FCHOFLG	0049 ..	FCHRES2	0025 ..	FCHTRAN	001B 04	FDEFNAME	00EC ..
FCHORIG	001B 40	FCHREUS	001A 40	FCHTTR	000C ..	FDEFTYPE	00F4 ..
FCHOVLY	001A 20	FCHRLDBF	0144 ..	FCHTXT	0012 ..	FLNORP	0158 01
FCHPAG	0024 20	FCHSAV10	004C ..	FCHTXTL	001F ..	FLRELOC	0158 60
FCHPOINT	0054 ..	FCHSAV14	0050 ..	FCH1TXT	001A 01	FLSUBTR	0158 02
FCHRCNT	014A ..	FCHSCAT	001A 04	FDEF	00D4 ..	FSTLIST	011C ..
FCHREFR	001B 01	FCHSCTLN	02E0 00	FDEFDD	00DC ..	FSTTLEN	 28
FCHREGN	0058 ..	FCHSECT	0000 ..	FDEFDEV	00E4 ..	SBSREGS	0254 ..
FCHREGS	029C ..						

FCHTAB: FETCH TABLE

FCHTAB contains a fetch/load parameter list that points to a 34-byte directory list. The fetch table is used when a VSE program issues a FETCH or LOAD request without the LIST= parameter. The IJBFTTAB field in the SYSCOM block in the DOSCON CSECT of NUCON points to the fetch table. FCHTAB is invoked via the FCHTAB macro.



SIZE

TOTAL LENGTH (42) IN BYTES (FCHLENG) 2A
TOTAL LENGTH IN DOUBLEWORDS (FCHLENDW) 06

HEX DISP	NAME	LEN	KEY	DESCRIPTION
	8-BYTE PARAMETER LIST POINTING TO DIRECTORY LIST:			
0	FCHAPHNM	4		ADDRESS OF PHASE NAME
4	FCHOPT	1	A*1	OPTIONS
5	FCHALSNM	3		ADDRESS OF LISTNAME
	34-BYTE DIRECTORY LIST			
8	DIRNAME	8		PHASE NAME
10	DIRTTR	3		PHASE TTR
13	DIRN	1	A*2	NUMBER HALF WORDS IN DIRECTORY
14	DIRTT	2		NUMBER TEXT BLOCKS IN PHASE
16	DIRLL	2		LENGTH LAST TEXT BLOCK
18	DIRC	1	A*3	FLAG BYTE
	Values Defined in DIRC			
80	SELFREL			PHASE SELF RELOCATABLE
40	RELPHSE			PHASE TO BE RELOCATED
20	SVAELIG			PHASE SVA ELIGIBLE
10	SVAPHSE			PHASE IN SVA
08	PCLPHSE			PHASE IN PRIV C.I.L.
04	PNOTFND			PHASE NOT FOUND
02	DACTIVE			PHASE DIRECTORY ACTIVE
01	NOTEXT			TEXT = NO SPECIFIED
19	DIRT	1		RESERVED

DISP	NAME	LEN	KEY	DESCRIPTION
1A	DIRPPP	3		PHASE LOAD POINT
1D	DIREEE	3		PHASE ENTRY POINT
20	DIRRR	2		NUMBER RLD ITEMS IN PHASE
22	DIRR	1	A*4	NUMBER ADDITIONAL RLD BLOCKS
23	DIRAAA	3		PARTITION START ADDRESS
26		1		UNUSED
27	DIRVEE	3	A*5	PHASE ENTRY POINT IN SVA

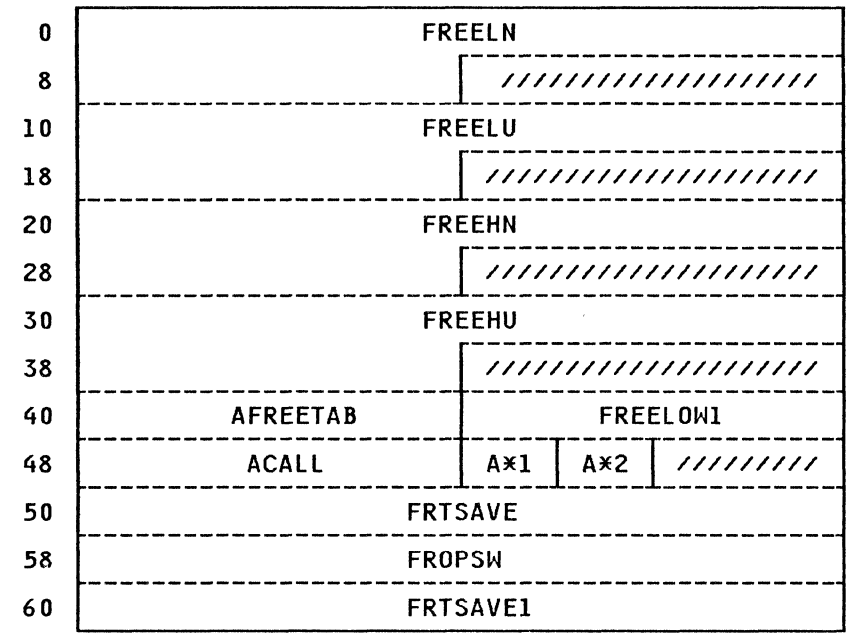
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

DACTIVE	0018	02	DIRPPP	001A	..	FCHALSNM	0005	..	PCLPHSE	0018	08
DIRAAA	0023	..	DIRR	0022	..	FCHAPHNM	0000	..	PNOTFND	0018	04
DIRC	0018	..	DIRRR	0020	..	FCHLENDW	....	06	RELPHSE	0018	40
DIREEE	001D	..	DIRT	0019	..	FCHLENG	....	2A	SELFREL	0018	80
DIRLL	0016	..	DIRTT	0014	..	FCHOPT	0004	..	SVAELIG	0018	20
DIRN	0013	..	DIRTTR	0010	..	NOTEXT	0018	01	SVAPHSE	0018	10
DIRNAME	0008	..	DIRVEE	0027	..						

FRDSECT: FREE CHAIN ELEMENT HEADER BLOCKS

FRDSECT describes the fields used by DMSFRE to reference the four free chain element header blocks. FRDSECT is invoked by the macro DMSFRT. The DMSFRT DSECT is pointed to by a V-constant in DMSFREE, and also by the ADMSFRT field in NUCON.



SIZE OF AN FBD (FBDLEN) L'POINTER + L'SIZE + L'FBDFREE
SIZE OF AN FBD IN DOUBLEWORDS (FBDLEND) (FBDLEN+7)/8

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	FREELN	12		LOWCORE NUCLEUS
C		4		
10	FREELU	12		LOWCORE USER CHAIN
1C		4		
20	FREEHN	12		HIGHCORE NUCLEUS
2C		4		
30	FREEHU	12		HIGHCORE USER CHAIN

DISP	NAME	LEN	KEY	DESCRIPTION
3C		4		

THE FOLLOWING SYMBOLIC EQUATES DESCRIBE THE FORMAT OF EACH OF THE FOUR FREE CHAIN ELEMENT HEADER BLOCKS.

	00	POINTER	4	POINT TO FIRST FREE ELEMENT
	04	NUM		NUMBER OF ELEMENTS IN CHAIN
	08	MAX		MAXIMUM SIZE OF AN ELEMENT
	0C	FLAGS		FLAG BYTE
	0D	SKEY		STORAGE KEY FOR THIS CHAIN
	0E	TCODE		FREETAB TABLE CODE
	10	BLOCKLEN		SYMBOLIC LENGTH OF BLOCK

DEFINITIONS FOR THE 'FLAGS' FLAG BYTE

	80	FLCLN		CLEAN-UP FLAG
	40	FLCLB		CLOBBERED CHAIN FLAG
	20	FLHC		HIGH-CORE FLAG
	10	FLNU		NUCLEUS FLAG
	08	FLPA		PAGE AVAILABLE ON CHAIN

DEFINITIONS FOR 'SKEY' STORAGE KEY VALUES

	F0	NUCKEY		NUCLEUS STORAGE KEY
	E0	USERKEY		USER STORAGE KEY

DEFINITIONS FOR 'TCODE' FREETAB TABLE CODE VALUES

	05	SYSCODE		SYSTEM PAGE
	05	MAXCODE		MAXIMUM POSSIBLE CODE VALUE
	04	USARCODE		USER AREA PAGE
	03	TRNCODE		TRANSIENT AREA PAGE
	02	NUCCODE		NUCLEUS FREE STORAGE PAGE
	01	USERCODE		USER FREE STORAGE PAGE
40		AFREETAB	4	ADDRESS OF FREETAB TABLE
44		FREELOW1	4	ORIGINAL VALUE OF FREELOWE (SET BY INIT2)
48		ACALL	4	ADDRESS OF CALLER (FOR ERRORS)

FLAG SET BY EXAMINING SVC 203 HALFWORD CODE

4C		FREEFLG1	0 A*1	

Values Defined in FREEFLG1

	80	FRF1C		CONDITIONAL REQUEST
	40	FRF1V		VARIABLE REQUEST
	20	FRF1N		NUCLEUS REQUEST
	10	FRF1E		FREE (VS FRET) REQUEST
	08	FRF1L		LOW-CORE IS OK
	04	FRF1H		HIGH-CORE IS OK
	02	FRF1M		MESSAGES WANTED ON ERROR
	01	FRF1B		'TYPCALL' EQUALS 'BALR' IN MACRO

THE FOLLOWING BYTE HOLDS FLAGS INTERNAL TO THE DMSFRE ROUTINE.

DISP	NAME	LEN	KEY	DESCRIPTION
4D	FREEFLG2	0	A*2	

Values Defined in FREEFLG2

80	FRF2CL	CLEANUP FLAG
40	FRF2SVP	SCHVPGE FLAG
20	FRF2NOI	2ND INITIALIZATION ROUTINE HAS NOT YET BEEN CALLED
10	FRF2CKE	DO A 'CHECK' EACH TIME FREE OR FRET IS CALLED
08	FRF2CKT	DO A CHECK THIS TIME
04	FRF2CKX	EXECUTING 'CHECK' ROUTINE NOW
02	FRF2NOSK	THE STORAGE KEYS HAVE NOT BEEN INITIALIZED
01	FRF2NOKP	SET KEYPROTECT IS OFF

FREE CHAIN ELEMENT DESCRIPTION

	*POINTER	4	POINTER TO NEXT FREE ELEMENT
04	SIZE	4	SIZE OF THIS ELEMENT IN BYTES
08	FBDFREE	4	POINTER TO FREE BLOCK FOR FBD IN CACHE ONLY
50	FRTSAVE	8	TEMP SAVE AREA
58	FROPSW	8	PROGRAM OLD PSW
60	FRTSAVE1	8	TEMP SAVE AREA FOR CACHE DSECTS

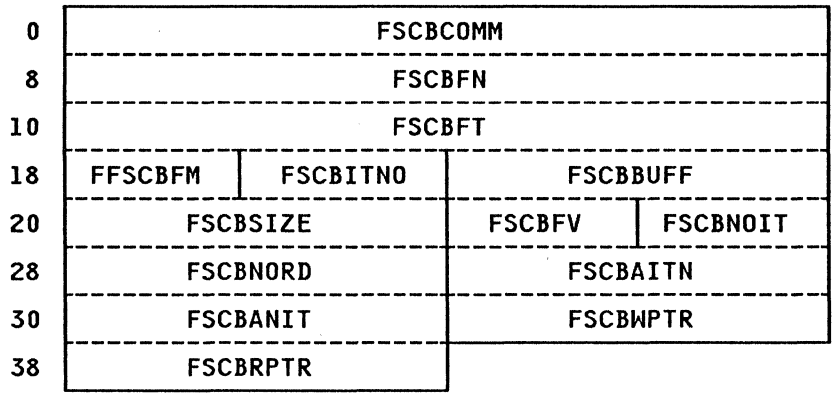
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

ACALL	0048 ..	FREEHU	0030 ..	FRF2CKE	004D 10	NUCCODE	 02
AFREETAB	0040 ..	FREELN	0000 ..	FRF2CKT	004D 08	NUCKEY	.... F0
BLOCKLEN	 10	FREELOW1	0044 ..	FRF2CKX	004D 04	NUM	 04
FBDFREE	 08	FREELU	0010 ..	FRF2CL	004D 80	POINTER	 00
FLAGS	.... 0C	FRF1B	004C 01	FRF2NOI	004D 20	SIZE	004D 04
FLCLB	 40	FRF1C	004C 80	FRF2NOSK	004D 02	SKEY	.... 0D
FLCLN	 80	FRF1E	004C 10	FRF2SVP	004D 40	SYSCODE	 05
FLHC	 20	FRF1H	004C 04	FROPSW	0058 ..	TCODE	.... 0E
FLNU	 10	FRF1L	004C 08	FRTSAVE	0050 ..	TRNCODE	 03
FLPA	 08	FRF1M	004C 02	FRTSAVE1	0060 ..	USARCODE	 04
FREEFLG1	004C ..	FRF1N	004C 20	MAX	 08	USERCODE	 01
FREEFLG2	004D ..	FRF1V	004C 40	MAXCODE	 05	USERKEY	.... E0
FREEHN	0020 ..						

FSCBD: FILE SYSTEM CONTROL BLOCK

FSCBD is a PLIST defined for general use by routines that use the CMS file system. FSCBD is generated when the user invokes the FSCBD macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	FSCBCOMM	8		FILE SYSTEM COMMAND (RDBUF,WRBUF,ETC)
8	FSCBFN	8		FILENAME
10	FSCBFT	8		FILETYPE
18	FSCBFM	2		FILEMODE
1A	FSCBITNO	2		RELATIVE RECORD NUMBER TO BE READ/WRITTEN
1C	FSCBBUFF	4		ADDRESS OF R/W BUFFER OR OF STATEFST
20	FSCBSIZE	4		LENGTH OF BUFFER
24	FSCBFV	2		RECFM - C'F' OR C'V'
25	FSCBFLG	1		FLAG BYTE
	Values Defined in FSCBFLG			
	40 FSCBITAV			ITEM AVAILABLE
	20 FSCBEPL			EXTENDED PLIST
	01 FSCBRCAV			PREVIOUS RECORD NULL
26	FSCBNOIT	2		NUMBER OF RECORDS TO BE READ/WRITTEN
28	FSCBNORD	4		NUMBER OF BYTES ACTUALLY READ
2C	FSCBAITN	4		EXTENDED RECORD NUMBER
30	FSCBANIT	4		EXTENDED NUMBER OF RECORDS
34	FSCBWPTR	4		EXTENDED WRITE POINTER

DISP	NAME	LEN	KEY	DESCRIPTION
38	FSCBRPTR	4		EXTENDED READ POINTER

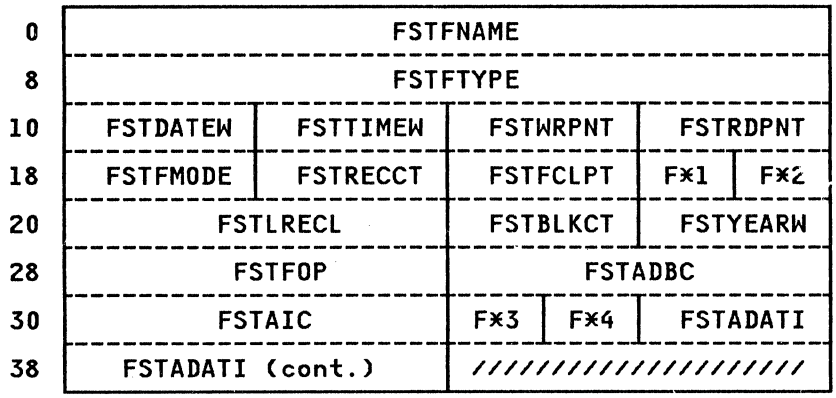
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

FSCBAITN	002C ..	FSCBFLG	0025 ..	FSCBITAV	0025 40	FSCBRCAV	0025 01
FSCBANIT	0030 ..	FSCBFM	0018 ..	FSCBITNO	001A ..	FSCBRPTR	0038 ..
FSCBBUFF	001C ..	FSCBFN	0008 ..	FSCBNOIT	0026 ..	FSCBSIZE	0020 ..
FSCBCOMM	0000 ..	FSCBFT	0010 ..	FSCBNORD	0028 ..	FSCBWPTR	0034 ..
FSCBEPL	0025 20	FSCBFV	0024 ..				

FSTD: FILE STATUS TABLE ENTRY DSECT

FSTD describes the fields in a 40-byte file status table entry as found by STATE, STATEW, DMSLF or DMSLFSW. FSTD is functionally equivalent to the FSTSECT DSECT.



SIZE

FST SIZE IN BYTES (FSTDSIZE) 40

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	FSTFNAME	8		FILE NAME
8	FSTFTYPE	8		FILE TYPE
10	FSTDATEW	2		DATE LAST WRITTEN - MMDD
12	FSTTIMEW	2		TIME LAST WRITTEN - HHMM
14	FSTWRPNT	2		WRITE POINTER - ITEM NUMBER
16	FSTRDPNT	2		READ POINTER - ITEM NUMBER
18	FSTFMODE	2		FILE MODE - LETTER AND NUMBER
1A	FSTRECCT	2		NUMBER OF LOGICAL RECORDS
1C	FSTFCLPT	2		FIRST CHAIN LINK POINTER
1E	FSTRECFM	1	F*1	RECORD FORMAT - F OR V

DISP	NAME	LEN	KEY	DESCRIPTION
1F	FSTFLAGS	1	F*2	FST FLAG BYTE

Values Defined in FSTFLAGS

00	FSTRODSK	READ/ONLY DISK
C0	FSTXWDSK	EXTENSION OF R/W DISK
80	FSTRWDSK	READ/WRITE DISK
40	FSTXRDSK	EXTENSION OF R/O DISK
40	FSTDIA	ITEM AVAILABLE
20	FSTEPL	EXTENDED PLIST
07	FSTFILEA	THE FILE IS ACTIVE
04	FSTACTRD	ACTIVE FOR READING
02	FSTACTWR	ACTIVE FOR WRITING
01	FSTDRA	PREVIOUS RECORD NULL
01	FSTACTPT	ACTIVE FROM A POINT

20	FSTLRECL	4		LOGICAL RECORD LENGTH
24	FSTBLKCT	2		NUMBER OF 800 BYTE BLOCKS
26	FSTYEARW	2		YEAR LAST WRITTEN
28	FSTFOP	4		ALTERNATE FILE ORIGIN POINTER
2C	FSTADBC	4		ALTERNATE NUMBER OF DATA BLOCKS
30	FSTAIC	4		ALTERNATE ITEM COUNT
34	FSTNLVL	1	F*3	NUMBER OF POINTER BLOCK LEVELS
35	FSTPTRSZ	1	F*4	LENGTH OF A POINTER ELEMENT
36	FSTADATI	6		ALTERNATE DATE/TIME(YY MM DD HH MM SS)
3C		4		RESERVED

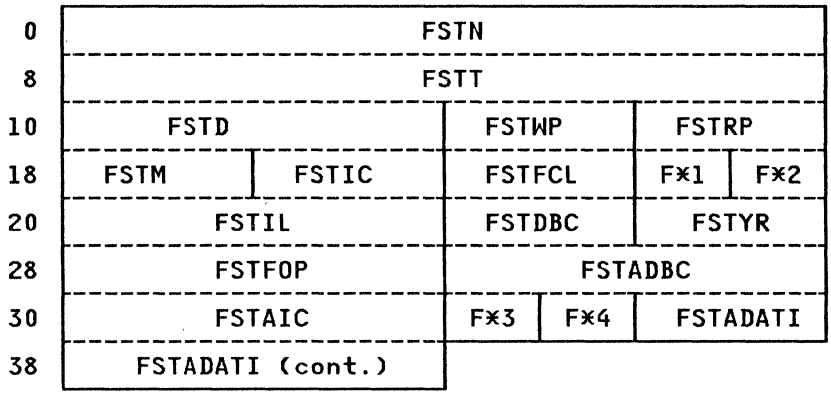
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

FSTACTPT	001F 01	FSTDIA	001F 40	FSTFNAME	0000 ..	FSTRECFM	001E ..
FSTACTRD	001F 04	FSTDRA	001F 01	FSTFOP	0028 ..	FSTRODSK	001F 00
FSTACTWR	001F 02	FSTDSIZE	 40	FSTFTYPE	0008 ..	FSTRWDSK	001F 80
FSTADATI	0036 ..	FSTEPL	001F 20	FSTLRECL	0020 ..	FSTTIMEW	0012 ..
FSTADBC	002C ..	FSTFCLPT	001C ..	FSTNLVL	0034 ..	FSTWRPNT	0014 ..
FSTAIC	0030 ..	FSTFILEA	001F 07	FSTPTRSZ	0035 ..	FSTXRDSK	001F 40
FSTBLKCT	0024 ..	FSTFLAGS	001F ..	FSTRDPNT	0016 ..	FSTXWDSK	001F C0
FSTDATEW	0010 ..	FSTFMODE	0018 ..	FSTRECCT	001A ..	FSTYEARW	0026 ..

FSTSECT: FILE STATUS TABLE

FSTSECT defines the file status table (FST) which describes the attributes of a file on a CMS virtual disk. FSTSECT is invoked by the macro FSTB.



SIZE

LENGTH OF AN EDF FST. (FSTL2) 40
LENGTH OF FSTSECT IS (FSTL) 28

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	FSTN	8		FILE NAME
8	FSTT	8		FILE TYPE
10	FSTD	4		DATE/TIME LAST WRITTEN
14	FSTWP	2		WRITE POINTER (ITEM #)
16	FSTRP	2		READ POINTER (ITEM #)
18	FSTM	2		FILE MODE
1A	FSTIC	2		ITEM COUNT
1C	FSTFCL	2		FIRST CHAIN LINK
1E	FSTFV	1	F*1	FIXED(F)/VARIABLE(V) FLAG

DISP	NAME	LEN	KEY	DESCRIPTION
1F	FSTFB	1	F*2	FLAG BYTE (IF USED)

Values Defined in FSTFB

00	FSTFRO	READ-ONLY DISK
C0	FSTFRWX	READ-ONLY EXTENSION OF READ-ONLY DISK
80	FSTFRW	READ-WRITE DISK
40	FSTFROX	READ-ONLY EXTENSION OF READ-WRITE DISK
40	FSTITAV	ITEM AVAILABLE
20	FSTEPL	EXTENDED PLIST
07	FSTFACT	FILE "ACTIVE" - ONE OF THE FOLLOWING:
04	FSTFAR	FILE ACTIVE FOR READING
02	FSTFAW	FILE ACTIVE FOR WRITING
01	FSTFAP	FILE ACTIVE FROM A "POINT"
01	FSTRECAV	PREVIOUS RECORD NULL

20	FSTIL	4		(MAXIMUM) ITEM LENGTH
20	FSTFWDP	4		FORWARD POINTER (TO NEXT HYPERBLOCK IN CORE)
24	FSTDBC	2		NUMBER OF DATA BLOCKS
24	FSTBKWD	2		BACKWARD POINTER (TO PREVIOUS HYPERBLK IN CORE)
26	FSTYR	2		YEAR
28	FSTFOP	4		ALTERNATE FILE ORIGIN POINTER
2C	FSTADBC	4		ALTERNATE NUMBER OF DATA BLOCKS
30	FSTAIC	4		ALTERNATE ITEM COUNT
34	FSTNLVL	1	F*3	NUMBER OF POINTER BLOCK LEVELS
35	FSTPTRSZ	1	F*4	LENGTH OF A POINTER ELEMENT
36	FSTADATI	6		ALTERNATE DATE/TIME(YY MM DD HH MM SS)

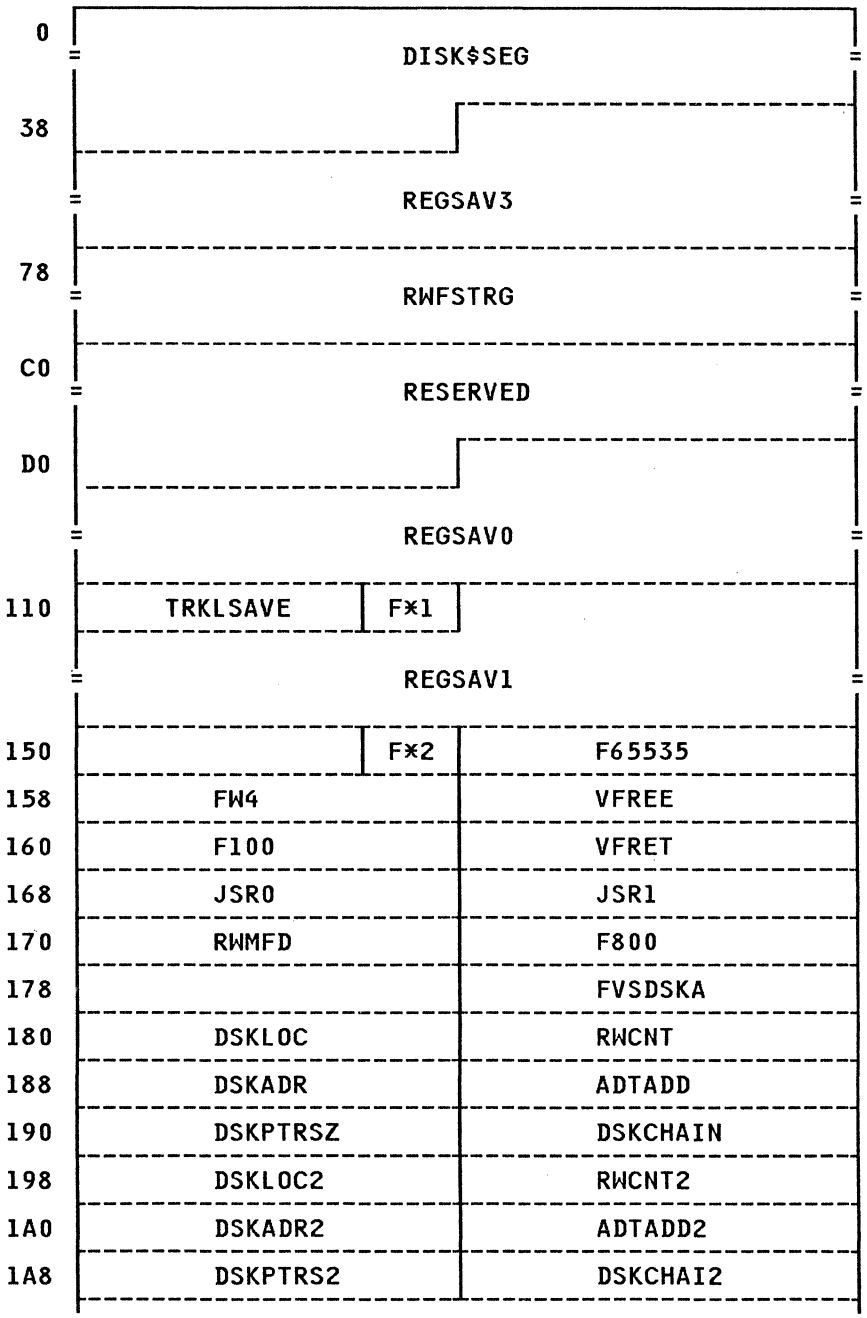
CROSS REFERENCE (Name Disp Value)

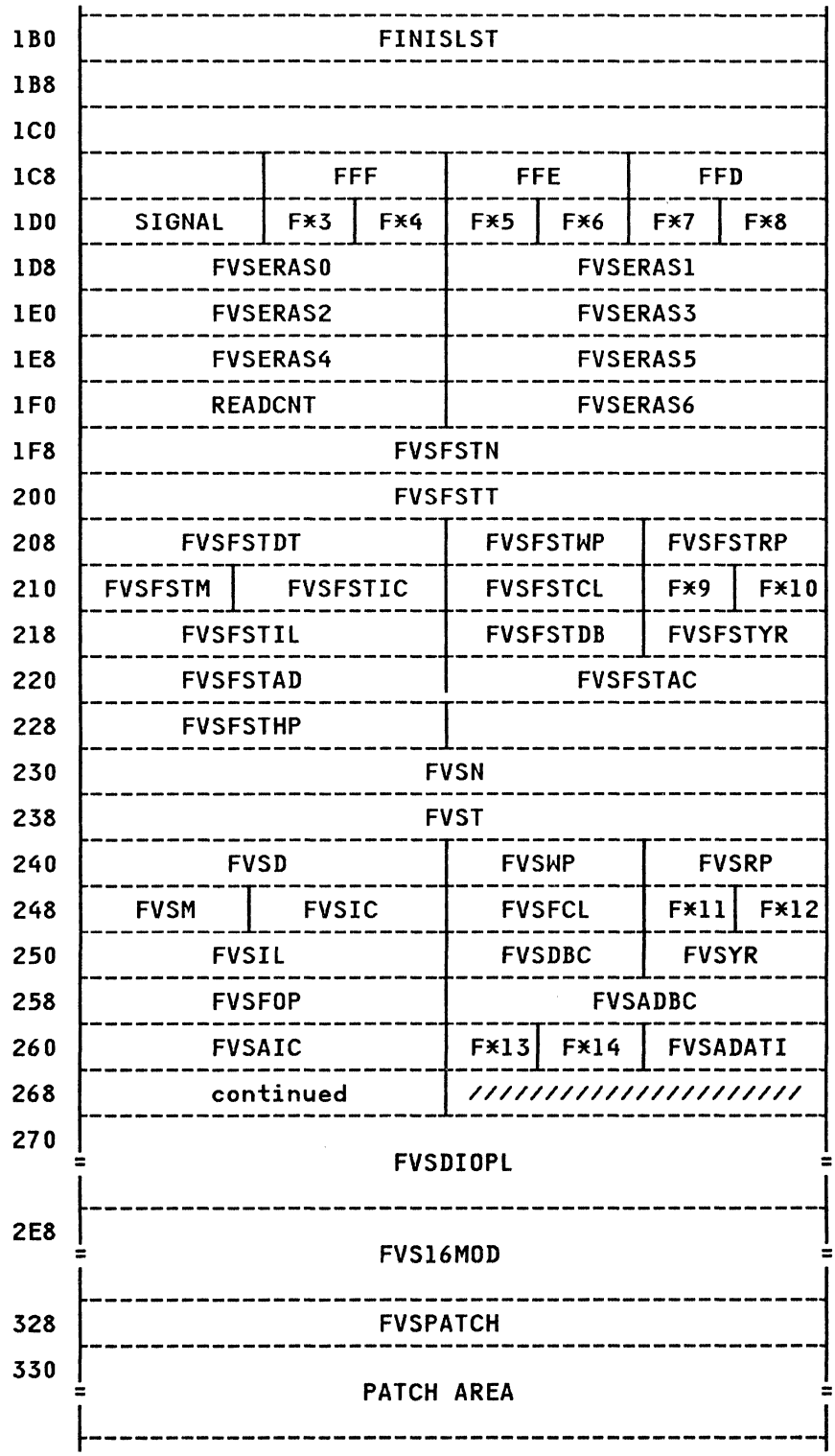
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

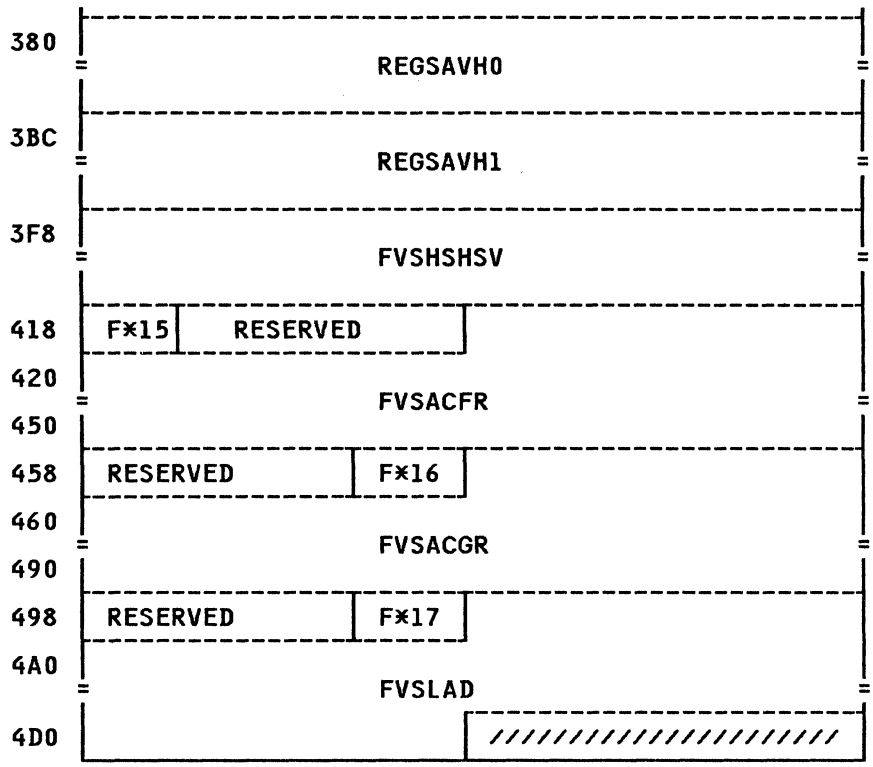
FSTADATI	0036 ..	FSTFAR	001F 04	FSTFV	001E ..	FSTN	0000 ..
FSTADBC	002C ..	FSTFAW	001F 02	FSTFWDP	0020 ..	FSTNLVL	0034 ..
FSTAIC	0030 ..	FSTFB	001F ..	FSTIC	001A ..	FSTPTRSZ	0035 ..
FSTBKWD	0024 ..	FSTFCL	001C ..	FSTIL	0020 ..	FSTRECAV	001F 01
FSTD	0010 ..	FSTFOP	0028 ..	FSTITAV	001F 40	FSTRP	0016 ..
FSTDBC	0024 ..	FSTFRO	001F 00	FSTL	0000 28	FSTT	0008 ..
FSTEPL	001F 20	FSTFROX	001F 40	FSTL2	0000 40	FSTWP	0014 ..
FSTFACT	001F 07	FSTFRW	001F 80	FSTM	0018 ..	FSTYR	0026 ..
FSTFAP	001F 01	FSTFRWX	001F C0				

FVSECT: FIXED VARIABLE STORAGE WORK AREA FOR CMS FILE SYSTEM

FVSECT is used mainly by file management and I/O routines. FVS contains save areas, work areas, and commonly used constants. A typical use of FVS is when a reentrant I/O routine requires a work area or save area, since the routine cannot modify itself. FVSECT is invoked by the FVS macro.




1B0
FINISLST
1B8
1C0
1C8
FFF
FFE
FFD
1D0
SIGNAL
F*3
F*4
F*5
F*6
F*7
F*8
1D8
FVSERAS0
FVSERAS1
1E0
FVSERAS2
FVSERAS3
1E8
FVSERAS4
FVSERAS5
1F0
READCNT
FVSERAS6
1F8
FVSFSTN
200
FVSFSTT
208
FVSFSTDT
FVSFSTWP
FVSFSTRP
210
FVSFSTM
FVSFSTIC
FVSFSTCL
F*9
F*10
218
FVSFSTIL
FVSFSTDB
FVSFSTYR
220
FVSFSTAD
FVSFSTAC
228
FVSFSTHP
230
FVSN
238
FVST
240
FVSD
FVSWP
FVSRP
248
FVSM
FVSIC
FVSFCL
F*11
F*12
250
FVSIL
FVSDBC
FVSYR
258
FVSFOP
FVSADBC
260
FVSAIC
F*13
F*14
FVSADATI
268
continued
270
FVSDIOPL
2E8
FVS16MOD
328
FVSPATCH
330
PATCH AREA



SIZE

LENGTH OF SHORT FST (FVSL1) 28
LENGTH OF AN EDF FST (FVSL2) 40

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DISK$SEG	60		(1) FOR FSTLKP, FSTLKW, ACTLKP, TRKLKP, QQTRK
3C	REGSAV3	60		(2) FOR RDBUF, WRBUF, FINIS, STATE, POINT
78	RWFSTRG	72		(3) REMAINING STORAGE FOR RDBUF, WRBUF, FINIS
C0		20		RESERVED FOR FUTURE USE
SAVE AREA FOR LOWEST LEVEL ROUTINES (READMFD, RELUFD, UPDISK, TYPSRCH, ADTLKW)				
D4	REGSAV0	60		(1) SAVED R0-R15
D4	TRKLSAVE	0		FOR TRKLKP/X ONLY WHEN CALLED BY QQTRK/X
		3		FIRST 3 BYTES OF RETURN-CODE
113	ERRCOD0	1	F*1	(3) ERROR-CODE GOES HERE
SAVE AREA FOR NEXT-TO-LOWEST LEVEL ROUTINES (READFST, ERASE, ALTER, INTSVC-LOADM				
114	REGSAV1	60		(1)
150		3		
153	ERRCOD1	1	F*2	(3)

DISP	NAME	LEN	KEY	DESCRIPTION
154	F65535	4		= X'0000FFFF'
158	FW4	4		
15A	HW4			FW4+2
15C	VFREE	4		(1)
160	F100	4		(2)
164	VFRET	4		(INTO R15)
168	JSR0	4		R0 AND ...
16C	JSR1	4		R1 SAVED HERE FOR FRET CALLS
PARAMETER LIST TO READ/WRITE MFD				
170	RWMFD	4		CORE-ADDRESS
174	F800	4		800 BYTES
17C	FVSDSKA	4		ADDRESS OF ACTIVE-DISK-TABLE
180	DSKLST	0		ALL-PURPOSE RDTK/WRTK P-LIST...
180	DSKLOC	4		CORE LOCATION OF ITEM
184	RWCNT	4		BYTE-COUNT (USUALLY 800)
188	DSKADR	4		DISK ADDRESS OF ITEM
Values Defined in DSKADR				
80	FWADDR			THE HIGH BIT OF DSKADDR INDICATES EXTENDED DIO PLIST (FULLWORD DISK ADDRESS, POINTER SIZE AND PLIST CHAIN POINTER)
18C	ADTADD	4		ADDRESS OF CORRECT ACTIVE-DISK-TABLE
190	DSKPTRSZ	4		DISK POINTER SIZE IF FULLWORD ADDRESS
194	DSKCHAIN	4		PLIST CHAIN POINTER
198	DSKLST2	4		ALL-PURPOSE RDTK/WRTK P-LIST
198	DSKLOC2	0		CORE LOCATION OF ITEM
19C	RWCNT2	4		BYTE-COUNT
1A0	DSKADR2	4		DISK ADDRESS OF ITEM
1A4	ADTADD2	4		ADDRESS OF ADT (NOT USED IN CHAINED PLIST)
1A8	DSKPTRS2	4		DISK POINTER SIZE IF FULLWORD ADDRESS
1AC	DSKCHAI2	4		PLIST CHAIN POINTER
1AC	DSKLEN	4		PLIST CHAIN POINTER
1B0	FINISLST	8		P-LIST TO CLOSE ALL FILES
1B8		8		
1C0		8		
1C8		2		
1CA	FFF	2		MEANS NO SIGNIFICANT DATA PAST 215TH BYTE

DISP	NAME	LEN	KEY	DESCRIPTION
1CC	FFE	2		1968-ERA MFD STILL SUPPORTED ON INPUT ONLY
1CE	FFD	2		NEWEST SIGNAL FOR FULL 2314 HANDLING

SIGNAL = SCRATCH HALFWORD USED BY READMFD OR ERASE

1D0	SIGNAL	2		= 0000, X'FFFF', X'FFFE', OR X'FFFD'
1D1	SWTCH	1		00, FF, FE, OR FD
1D2	UFDBUSY	1	F*3	NONZERO MEANS 'UFD IS BUSY BEING UPDATED'

Values Defined in UFDBUSY

80	WRBIT	WRBUF
40	UPBIT	UPDISK - READMFD
20	FNBIT	FINIS
10	ERBIT	ERASE - ALTER - READFST
08	DIOBIT	RDTK/WRTK

The following bits are for routines that do not update the disk, but can not be interrupted by a KX anyway.

02	ABNBIT	DMSABN -- ABEND RECOVERY ROUTINE
01	ITSBIT	DMSITS -- SVC HANDLING ROUTINE

1D3	KXFLAG	1	F*4	'KX' FLAGS

Values Defined in KXFLAG

80	KXWANT	KX WANTED ASAP
01	KXWSVC	HOLD KX UNTIL ANY SVC ACTIVITY

1D4	FVSFLG0	1	F*5	FLAG FOR GENERAL COMMUNICATION

Values Defined in FVSFLG0

80	FVSUFSTC	DISK/TAPE DUMP - DMSBRD TO USE FVS FST COPY TO BUILD AFT

1D5	FLGSAVE	1	F*6	FOR SCRATCH USE (E.G. BY RELUFD)
1D6	FVSFLAG	1	F*7	(FOR GENERAL USE - AS NEEDED)

MISCELLANEOUS STORAGE USED BY ERASE (OR ALTER)

1D7	ERSFLAG	1	F*8	FLAG FOR USE BY ERASE OR ALTER
1D8	FVSERAS0	4		(1) - R0 TO/FROM FSTLKW (FOR ERASE)
1DC	FVSERAS1	4		(2) - R1 TO ACTLKP OR FSTLKW (FOR ERASE)
1E0	FVSERAS2	4		(3) ADDRESS OF FREE STORAGE USED BY ERASE
1E4	FVSERAS3	4		POINTERS PER BLOCK IN FILE BEING ERASED
1E8	FVSERAS4	4		POINTER SIZE OF FILE BEING ERASED
1EC	FVSERAS5	4		HBLK ADDRESS OF FILE BEING ERASED
1F0	READCNT	4		CURRENT READ COUNT (DMSBRD)
1F4	FVSERAS6	4		AFT ADDRESS OF FILE BEING ERASED

FILE STATUS TABLE (FST) COPY FROM 'STATE'

1F8	STATEFST	0	FST OF 'STATED' FILE

CDF FST COPY (40 BYTES)

DISP	NAME	LEN	KEY	DESCRIPTION
1F8	FVSFSTN	8		FILENAME -0
200	FVSFSTT	8		FILETYPE -8
208	FVSFSTDT	4		DATE/TIME LAST WRITTEN -16,18
20C	FVSFSTWP	2		WRITE POINTER (ITEM ID) -20
20E	FVSFSTRP	2		READ POINTER (ITEM ID) -22
210	FVSFSTM	2		FILEMODE -24
212	FVSFSTIC	2		N'ITEMS IN FILE -26
214	FVSFSTCL	2		DA(FIRST CHAIN LINK) -28
216	FVSFSTFV	1	F*9	FIXED(F) / VARIABLE(V) INDICATOR -30
217	FVSFSTFB	1	F*10	FLAG BYTE -31
218	FVSFSTIL	4		L'ITEMS -32
21C	FVSFSTDB	2		N'DATA BLOCKS -36
21E	FVSFSTYR	2		YEAR LAST WRITTEN -38
POINTERS ASSOCIATED WITH BOTH FST VERSIONS				
220	FVSFSTAD	4		A(ADT FOR THIS FILE)
220	STATER0	4		
224	FVSFSTAC	4		A(REAL FST ENTRY FOR THIS FILE)
224	STATER1	4		
228	FVSFSTHP	4		A(HBLK HOLDING THIS FST)
EDF FST COPY AREA (64 BYTES)				
230	STATFST2	0		EDF FORMAT FST COPY
FILE STATUS TABLE (FILE DIRECTORY) BLOCK				
230	FVSN	8		FILE NAME
238	FVST	8		FILE TYPE
240	FVSD	4		DATE/TIME LAST WRITTEN
244	FVSWP	2		WRITE POINTER (ITEM #)
246	FVSRP	2		READ POINTER (ITEM #)
248	FVSM	2		FILE MODE
24A	FVSIC	2		ITEM COUNT
24C	FVSFCL	2		FIRST CHAIN LINK
24E	FVSFV	1	F*11	FIXED(F)/VARIABLE(V) FLAG

DISP	NAME	LEN	KEY	DESCRIPTION
24F	FVSFB	1	F*12	FLAG BYTE (IF USED)
	Values Defined in FVSFB			
	(Applicable only to 'STATEFST' copy of FST-entry after successful 'STATE' or 'STATEW' call)			
	C0 FVSFRWX			READ-ONLY EXTENSION OF READ-ONLY DISK
	80 FVSFRW			READ-WRITE DISK
	40 FVSFROX			READ-ONLY EXTENSION OF READ-WRITE DISK
	07 FVSFACT			FILE "ACTIVE" - ONE OF THE FOLLOWING:
	04 FVSFAR			FILE ACTIVE FOR READING
	02 FVSFAW			FILE ACTIVE FOR WRITING
	01 FVSFAP			FILE ACTIVE FROM A "POINT"
	00 FVSFRO			READ-ONLY DISK
	Applicable to FSCBFLG in PLIST			
	40 FVSITAV			ITEM AVAILABLE
	20 FVSEPL			EXTENDED PLIST
	01 FVSRECAV			PREVIOUS RECORD NULL
250	FVSIL	4		(MAXIMUM) ITEM LENGTH
254	FVSDBC	2		NUMBER OF DATA BLOCKS
256	FVSYR	2		YEAR
FSTEDF EXTENSION				
258	FVSFOP	4		ALTERNATE FILE ORIGIN POINTER
25C	FVSADBC	4		ALTERNATE NUMBER OF DATA BLOCKS
260	FVSAIC	4		ALTERNATE ITEM COUNT
264	FVSNLVL	1	F*13	NUMBER OF POINTER BLOCK LEVELS
265	FVSPTRSZ	1	F*14	LENGTH OF A POINTER ELEMENT
266	FVSADATI	6		ALTERNATE DATE/TIME(YY MM DD HH MM SS)
26C		4		RESERVED
FST HYPER-BLOCK PARAMETERS				
324	FVSBKWD			BACKWARD POINTER (TO PREVIOUS HYPERBLK IN CORE)
320	FVSFWDP			FORWARD POINTER (TO NEXT HYPERBLOCK IN CORE)
270	FVSDIOPL	120		DIO MULTI-ELEMENT PLIST
2E8	FVS16MOS	64		USED BY DMSMOD TO LOAD TRANSIENT UP TO 16 DISK ADDRESS AND SAVED HERE
328	FVSPATCH	0		PATCH AREA FOR CMS NUCLEUS
328		8		EYE CATCHER
330		80		PATCH AREA
380	REGSAVH0	60		REG. SAVE AREA FOR DMSHTB
3BC	REGSAVH1	60		REG. SAVE AREA FOR DMSLFS
3F8	FVSHSHV	32		SAVE/WORK AREA FOR HASHING

DISP	NAME	LEN	KEY	DESCRIPTION
418	FVSHFLAG	1	F*15	FLAG FOR HASHING/HYPMAP
	Values Defined in FVSHFLAG			
	80 HTBRW			DMSHTB IS MAKING R/W HASH TABLE
	40 HASHTRY			HASH PROBE OF HYPERBLK BY DMSLFS
	20 CANTHASH			DMSLFS CAN'T USE HASHING
419		3		UNUSED
41C	FVSACFR	60		SAVE REGS 0-14 FOR DMSACF
458		3		UNUSED
45B	FVSACFE	1	F*16	SAVE REG. 15(ERROR) FOR DMSACF
45C	FVSACGR	60		SAVE REGS 0-14 FOR DMSACG
498		3		UNUSED
49B	FVSACGE	1	F*17	SAVE REG 15(ERROR) FOR DMSACG
49C	FVSLAD	64		SAVE AREA FOR DMSLAD

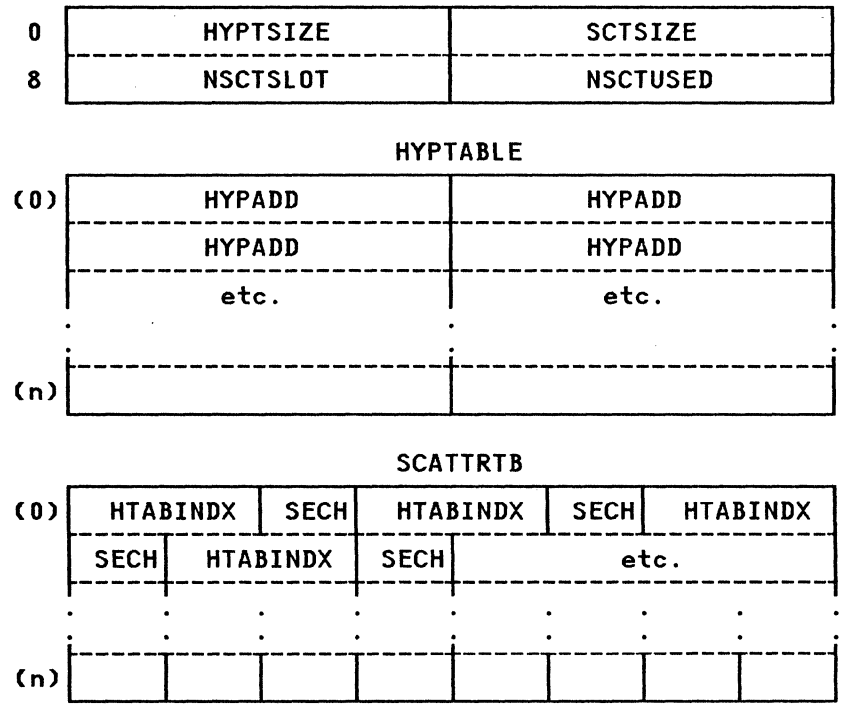
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

ABNBIT	01D2	02	FVSD	0240	..	FVSFSTHP	0228	..	F100	0160	..
ADTADD	018C	..	FVSDBC	0254	..	FVSFSTIC	0212	..	F65535	0154	..
ADTADD2	01A4	..	FVSDIOPL	0270	..	FVSFSTIL	0218	..	F800	0174	..
CANTHASH	0418	20	FVSDSKA	017C	..	FVSFSTM	0210	..	HASHTRY	0418	40
DIOBIT	01D2	08	FVSELMNL	0326	..	FVSFSTN	01F8	..	HTBRW	0418	80
DISK$SEG	0000	..	FVSELMNT	0325	..	FVSFSTRP	020E	..	HW4	015A	..
DSKADR	0188	..	FVSEPL	024F	20	FVSFSTT	0200	..	ITSBIT	01D2	01
DSKADR2	01A0	..	FVSERAS0	01D8	..	FVSFSTWP	020C	..	JSR0	0168	..
DSKCHAIN	0194	..	FVSERAS1	01DC	..	FVSFSTYR	021E	..	JSR1	016C	..
DSKCHAI2	01AC	..	FVSERAS2	01E0	..	FVSFV	024E	..	KXFLAG	01D3	..
DSKLEN	01AC	..	FVSERAS3	01E4	..	FVSFWDP	0320	..	KXWANT	01D3	80
DSKLOC	0180	..	FVSERAS4	01E8	..	FVSHFLAG	0418	..	KXWSVC	01D3	01
DSKLOC2	0198	..	FVSERAS5	01EC	..	FVSHSHV	03F8	..	READCNT	01F0	..
DSKLST	0180	..	FVSERAS6	01F4	..	FVSIC	024A	..	REGSAVH0	0380	..
DSKLST2	0198	..	FVSFACT	024F	07	FVSIL	0250	..	REGSAVH1	03BC	..
DSKPTRSZ	0190	..	FVSFAP	024F	01	FVSITAV	024F	40	REGSAV0	00D4	..
DSKPTRS2	01A8	..	FVSFAR	024F	04	FVSL	0000	28	REGSAV1	0114	..
ERBIT	01D2	10	FVSFAW	024F	02	FVSLAD	049C	..	REGSAV3	003C	..
ERRCOD0	0113	..	FVSFB	024F	..	FVSL1	0000	28	RWCNT	0184	..
ERRCOD1	0153	..	FVSFCL	024C	..	FVSL2	0000	40	RWCNT2	019C	..
ERSFLAG	01D7	..	FVSFLAG	01D6	..	FVSM	0248	..	RWFSTRG	0078	..
FFD	01CE	..	FVSFLG0	01D4	..	FVSN	0230	..	RWMFD	0170	..
FFE	01CC	..	FVSFOP	0258	..	FVSNDST	0270	..	SIGNAL	01D0	..
FFF	01CA	..	FVSFRO	024F	..	FVSNLVL	0264	..	STATEFST	01F8	..
FINISLST	01B0	..	FVSFROX	024F	40	FVSPATCH	02E8	..	STATER0	0220	..
FLGSAVE	01D5	..	FVSFRW	024F	80	FVSPTRSZ	0265	..	STATER1	0224	..
FNBIT	01D2	20	FVSFRWX	024F	C0	FVSRECAV	024F	01	STATFST2	0230	..
FVSADATI	0266	..	FVSFSTAC	0224	..	FVSRP	0246	..	SWTCH	01D1	..
FVSADBC	025C	..	FVSFSTAD	0220	..	FVST	0238	..	TRKLSAVE	00D4	..
FVSAIC	0260	..	FVSFSTCL	0214	..	FVSUFSTC	01D4	80	UFDBUSY	01D2	..
FVSACFE	045B	..	FVSFSTDB	021C	..	FVSWP	0244	..	UPBIT	01D2	40
FVSACFR	041C	..	FVSFSTDT	0208	..	FVSYR	0256	..	VFREE	015C	..
FVSACGE	049B	..	FVSFSTFB	0217	..	FWADDR	0188	80	VFRET	0164	..
FVSACGR	045C	..	FVSFSTFV	0216	..	FW4	0158	..	WRBIT	01D2	80
FVSBKWD	0320	..									

HASHTAB: HASH TABLE COMPLEX

HASHTAB is used exclusively by file management to reduce the paging overhead when searching for a file on a read/write disk. It contains a header plus a pointer array with the address of each hyperblock associated with the disk, and a scatter index table with a 3-byte entry for each file on the disk. HASHTAB is invoked via the HASHTAB macro.



SIZE

Size of HASHTAB header in bytes (HSHLENHD) 10
Size of an address entry (HADDLEN) 04
Size of a Scatter Table slot (SLOTSIZE) 03

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	HYPTSIZE	4		Size of Hyperblock Pointer Array (bytes)
4	SCTSIZE	4		Size of Scatter Table (bytes)
8	NSCTSLOT	4		Number of 3 byte slots in Scatter Table
C	NSCTUSED	4		Number of used Scatter Table slots

HYPERBLOCK POINTER ARRAY

0	HYPTABLE	0	Start of Hyperblock Address Portion

DISP	NAME	LEN	KEY	DESCRIPTION
0	HYPADD	4		Address of hyperblock
SCATTER INDEX TABLE				
0	SCATTRTB	0		Start of Scatter Table Portion
0	HTABINDX	2		Index into hyperblock pointer array
2	SECHBYTE	1		Secondary hash byte

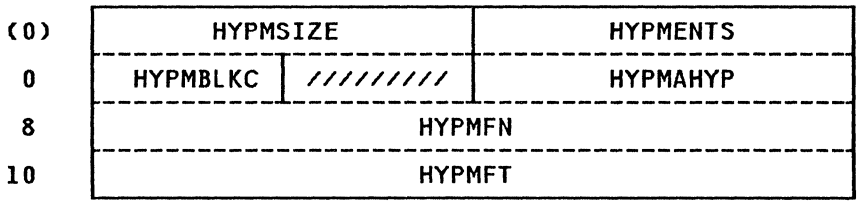
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

HADDLEN 04	HYPADD 0000 ..	NSCTSLOT 0008 ..	SCTSIZE 0004 ..
HSHLENHD 10	HYPTABLE 0000 ..	NSCTUSED 000C ..	SECHBYTE 0002 ..
HTABINDX 0000 ..	HYPTSIZE 0000 ..	SCATTRTB 0000 ..	SLOTSIZE 03

HYPMAP: HYPERBLOCK MAPPING TABLE

HYPMAP is the hyperblock mapping table for read-only disks. It contains a header plus an entry for each 4K page of hyperblocks (or FSTs for a STAT) associated with the accessed disk. HYPMAP is used mainly by file management to reduce the paging overhead when searching for a file on a read-only disk. HYPMAP is invoked via the HYPMAP macro.



SIZE

Length of a table entry in bytes (HYPMLEN) 18
Size of header in doublewords (HYPMHSIZ) 01

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	HYPMSIZE	4		Size of table in Doublewords
4	HYPMENTS	4		Number of entries in table
8	HYPTAB	0		Start of table
Table Entries				
0	HYPMBLKC	2		Number of hyperblocks/FST's on the page mapped by this table entry
2		2		Reserved
4	HYPMAHYP	4		Pointer to first hyperblock/FST
8	HYPMFID	0		ID of last file in this block
8	HYPMFN	0		Filename
8	HYPMFN1	4		First half of filename
C	HYPMFN2	4		Second half of filename
10	HYPMFT	0		Filetype
10	HYPMFT1	4		First half of filetype
14	HYPMFT2	4		Second half of filetype
18	HYPMNEXT	0		Start of next entry

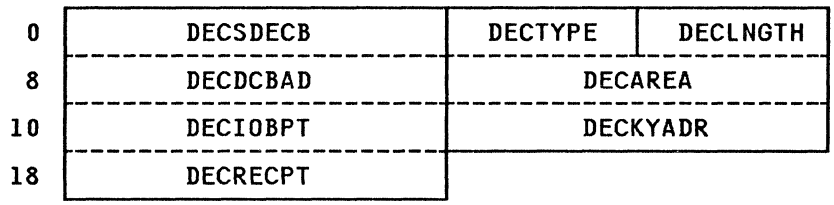
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

HYPMAHYP	0004 ..	HYPMFN	0008 ..	HYPMFT1	0010 ..	HYPMNEXT	0018 ..
HYPMBLKC	0000 ..	HYPMFN1	0008 ..	HYPMFT2	0014 ..	HYPMSIZE	0000 ..
HYPMENTS	0004 ..	HYPMFN2	000C ..	HYPMHSIZ	 01	HYPTAB	0008 ..
HYPMFID	0008 ..	HYPMFT	0010 ..	HYPMLEN	 18		

IHADECB: DATA EVENT CONTROL BLOCK

IHADECB, which is invoked via the CMSCB macro, is the simulated data event control block used for CMS processing of OS macros and OS access methods. The IOBECBPT field in FCBSECT points to IHADECB.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DECSDECB	4		EVENT CONTROL BLOCK
4	DECTYPE	2		TYPE OF I/O REQUEST
	Values Defined in DECTYPE			
80	DECBRD			READ SF
20	DECBWR			WRITE SF
6	DECLNGTH	2		LENGTH OF KEY & DATA
8	DECDCBAD	4		V(DATA CONTROL BLOCK)
C	DECAREA	4		V(KEY & DATA, BUFFER)
10	DECIOBPT	4		V(IOB)
BDAM EXTENSION				
14	DECKYADR	4		V(KEY)
18	DECRECPT	4		V(BLOCK REFERENCE FIELD)

SOME FREQUENTLY USED EQUATES

C0	UND	RECFM = UNDEFINED FORMAT RECORDS
80	PREVIOUS	OFLGS = PREVIOUS I/O OPERATION
80	IS	DSORG = INDEXED SEQUENTIAL
80	FXD	RECFM = FIXED LENGTH RECORDS
40	VAR	RECFM = VARIABLE LENGTH RECORDS
40	QS	MACRF = QSAM
40	PS	DSORG = PHYSICAL SEQUENTIAL
20	DA	DSORG = DIRECT ACCESS
20	BS	MACRF = BSAM
20	DDNAM	FILETYPE = DATA SET NAME
10	MOV	MACRF = MOVE MODE
10	BLK	RECFM = BLOCKED RECORDS
08	LOC	MACRF = LOCATE MODE
03	POU	DSORG = PARTIONED UNMOVEABLE
02	PO	DSORG = PARTIONED ORGANIZATION

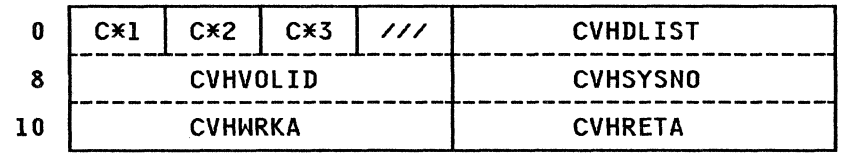
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

BLK	0000 10	DECDCBAD	0008 ..	DECTYPE	0004 ..	POU	0000 03
BS	0000 20	DECIOBPT	0010 ..	FXD	0000 80	PREVIOUS	0000 80
DA	0000 20	DECKYADR	0014 ..	IS	0000 80	PS	0000 40
DDNAM	0000 20	DECLNGTH	0006 ..	LOC	0000 08	QS	0000 40
DECAREA	000C ..	DECRECPT	0018 ..	MOV	0000 10	UND	0000 C0
DECBRD	0004 80	DECSDECB	0000 ..	PO	0000 02	VAR	0000 40
DECBWR	0004 20						

IJJHCPL: COMMON VTOC HANDLER PARAMETER LIST

IJJHCPL describes the fields within the common VTOC handler input parameter list and is used in the CMS/DOS environment. IJJHCPL is invoked by the IJJHCPL macro.



SIZE

IJJHCPL LENGTH IN BYTES (CPLLEN) 18

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CVHFLAGS	0		PROCESSING INDICATORS
0	CVHFLG1	1	C*1	
	Values Defined in CVHFLG1			
80	CVHOPEN			OPEN VTOC
40	CVHCLOSE			CLOSE VTOC
20	CVHRF4			READ F4 LABEL
10	CVHRF1			READ F1 LABEL
08	CVHRADR			READ BY ADDRESS
04	CVHRNEXT			READ NEXT
02	CVHRVOL1			READ VOL1 LABEL
1	CVHFLG2	1	C*2	
	Values Defined in CVHFLG2			
80	CVHWADR			WRITE BY ADDRESS
40	CVHWANY			WRITE IN ANY SLOT
20	CVHCOV			CHECK FOR OVERLAPS
10	CVHSCR			SCRATCH LABEL
08	CVHREN			RENAME LABEL
04	CVHCOVBP			BYPASS COV ON WRITE
02	CVHSCRBP			BYPASS SCRATCH ON COV
01	CVHPRTBP			SCR/REN EVEN IF PROTECTED
2	CVHFLG3	1	C*3	
	Values Defined in CVHFLG3			
80	CVHSHROP			SHARE OPTION
40	CVHIRIOE			IRRECOVERABLE I/O ERROR OPTION
3		1		RESERVED
4	CVHWORK			WORK AREA
4	CVHDLIST	4		ADDRESS OF DLIST

DISP	NAME	LEN	KEY	DESCRIPTION
8	CVHIOA	4		ADDRESS OF I/O AREA
8	CVHVOLID	4		ADDRESS OF VOLID (OPEN)
C	CVHWORK2			WORKAREA
C	CVHNAME	4		ADDRESS OF LABEL NAME
C	CVHSYSNO	4		ADDRESS OF SYSNO (OPEN)
10	CVHNEW	4		ADDRESS OF NEW NAME
10	CVHWRKA	4		ADDRESS OF WORKAREA (OPEN)
14	CVHRETA	4		ADDRESS OF RETURN AREA

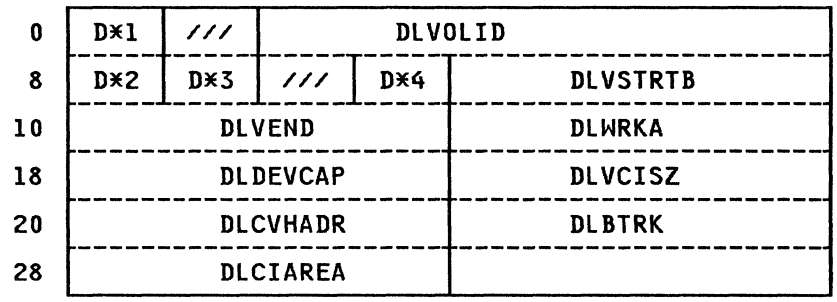
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

CPLLEN	0000	18	CVHFLG3	0002	..	CVHREN	0001	08	CVHSHROP	0002	80
CVHCLOSE	0000	40	CVHIOA	0008	..	CVHRETA	0014	..	CVHSYSNO	000C	..
CVHCOV	0001	20	CVHIRIOE	0002	40	CVHRF1	0000	10	CVHVOLID	0008	..
CVHCOVBP	0001	04	CVHNAME	000C	..	CVHRF4	0000	20	CVHWADR	0001	80
CVHDLIST	0004	..	CVHNEW	0010	..	CVHRNEXT	0000	04	CVHWANY	0001	40
CVHFLAGS	0000	..	CVHOPEN	0000	80	CVHRVOL1	0000	02	CVHWORK	0004	..
CVHFLG1	0000	..	CVHPRTBP	0001	01	CVHSCR	0001	10	CVHWORK2	000C	..
CVHFLG2	0001	..	CVHRADR	0000	08	CVHSCRBP	0001	02	CVHWRKA	0010	..

IJJHDLST: VOLUME DESCRIPTOR LIST

IJJHDLST describes the fields within the common VTOC handler descriptor list and is used in the CMS/DOS environment. IJJHDLST is invoked by the IJJHDLST macro.



SIZE

IJJHDLST LENGTH IN DOUBLEWORDS (DLSTDWDS) 06
IJJHDLST LENGTH IN BYTES (DLLEN) 30

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DLFLAGS	1	D*1	PROCESSING FLAGS
	Values Defined in DLFLAGS			
80	DLSHROPT			SHARE OPTION EXCLUSIVE
40	DLDEVFBA			FBA DEVICE
20	DLDLGOT			DLIST GETVISED BY CVH
10	DLWAGOT			WORKAREA GETVISED BY CVH
08	DLOPENED			VTOC WAS OPENED
04	DLF4DONE			F4 BITS PROCESSED
02	DLIRIOER			ACCEPT IRRECOVERABLE I/O ERROR
1		1		RESERVED
2	DLVOLID	6		VOLUME SERIAL NUMBER
8	DLSYSNO	2		SYSTEM LOGICAL UNIT NUMBER
8	DLSYSNO1	1	D*2	FIRST BYTE OF SYS-NUMBER
9	DLSYSNO2	1	D*3	SECOND BYTE OF SYS-NUMBER
A		1		RESERVED
B	DLVSTART	5		VTOC START ADDRESS (CKD)
B	DLBLKCI	1	D*4	BLOCKS PER CI (FBA)
C	DLVSTRTB	4		PBN OF VTOC START (FBA)
10	DLVEND	4		VTOC END ADDRESS
14	DLWRKA	4		WORKAREA ADDRESS
18	DLDEVCAP	4		DEVICE CAPACITY

DISP	NAME	LEN	KEY	DESCRIPTION
1C	DLVCISZ	4		VTOC CI SIZE (FBA)
20	DLCVHADR	4		ADDRESS OF CVH TOP MODULE
24	DLBTRK	4		BLOCKS PER TRACK FOR FBA
28	DLCIAREA	4		ADDRESS OF FBA CI AREA

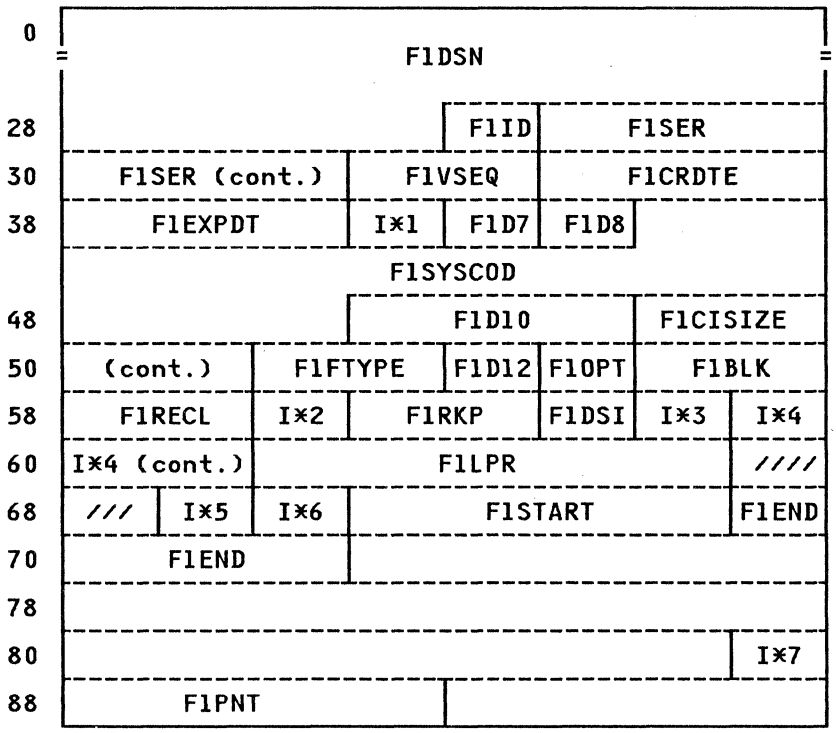
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

DLBLKCI	000B	..	DLDLGOT	0000	20	DLSHROPT	0000	80	DLVEND	0010	..
DLBTRK	0024	..	DLFLAGS	0000	..	DLSTDWDS	....	06	DLVOLID	0002	..
DLCIAREA	0028	..	DLF4DONE	0000	04	DLSYSNO	0008	..	DLVSTART	000B	..
DLCVHADR	0020	..	DLIRIOER	0000	02	DLSYSNO1	0008	..	DLVSTRTB	000C	..
DLDEVCAP	0018	..	DLLEN	....	30	DLSYSNO2	0009	..	DLWAGOT	0000	10
DLDEVFBA	0000	40	DLOPENED	0000	08	DLVCISZ	001C	..	DLWRKA	0014	..

IJJHFMT1: FORMAT 1 LABEL

IJJHFMT1 describes the fields within the Format 1 VTOC label and is used in the CMS/DOS environment. IJJHFMT1 is invoked by the IJJHFMT1 macro.



SIZE

IJJHFMT1 LENGTH IN DOUBLEWORDS (F1DWDS) 12
IJJHFMT1 LENGTH IN BYTES (F1LEN) 90

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	F1DSN	44		FILE ID
2C	F1ID	1		FORMAT1 ID - X'F1'
2D	F1SER	6		FILE SERIAL NUMBER
33	F1VSEQ	2		VOLUME SEQUENCE NUMBER
35	F1CRDTE	3		FILE CREATION DATE (YDD)
38	F1EXPDT	3		FILE EXPIRATION DATE (YDD)
3B	F1EXCNT	1	I*1	NUM EXTENTS FOR FILE ON VOLUME
3C	F1D7	1		UNUSED BY DOS/VS (X'40')

DISP	NAME	LEN	KEY	DESCRIPTION
3D	F1D8	1		RESERVED (X'40')
3E	F1SYSCOD	13		DOS/370 VER 4
4B	F1D10	3		RESERVED (X'40')
4E	F1CISIZE	4		CONTROL INTERVAL SIZE (FBA)
52	F1FTYPE	2		TYPE OF FILE ORGANIZATION
54	F1D12	1		UNUSED BY DOS/VS (X'00')
55	F1OPT	1		ISAM OPTION CODES
56	F1BLK	2		ISAM BLOCK LENGTH
58	F1RECL	2		ISAM LRECL
5A	F1KEYL	1	I*2	ISAM KEY LENGTH
5B	F1RKP	2		ISAM KEY POSITION
5D	F1DSI	1		DATA SET INDICATORS

Values Defined in F1DSI

80	F1LVOL	LAST VOL IND
20	F1BL8	BLOCK MUL 8 (OS/VS)
10	F1SEC	PASSWORD PROTECTION
04	F1WPW	WRITE PASSWORD ONLY

5E	F1SECAL	4		UNUSED BY DOS/VS (X'40')
5E	F1SECOPT	1	I*3	SECONDARY ALLOCATION OPTION
5F	F1SECALL	3	I*4	SECONDARY ALLOCATION VALUE
62	F1LRP	5		UNUSED BY DOS/VS (X'00')
67	FID21	2		RESERVED (X'40')
69	F1EXTS			EXTENTS
69	F1EXTYP	1	I*5	EXTENT TYPE
6A	F1EXSEQ	1	I*6	EXTENT SEQUENCE NUMBER
6B	F1START	4		LOWER CCHH
6F	F1END	4	I*7	UPPER CCHH
73		20		ADDITIONAL EXTENTS
87	F1POINT	5		FORMAT 3 OR 2 POINTER
87	F1HIORD	1		ZERO FOR FBA
88	F1PNT	4		RELATIVE RECORD NUMBER FOR FBA

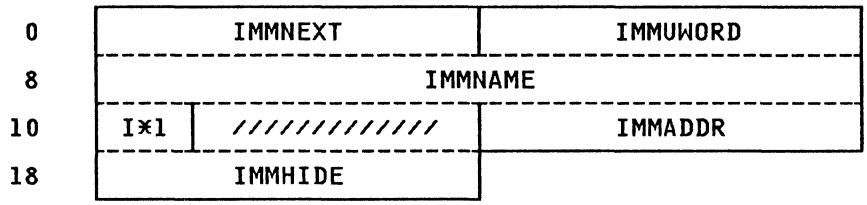
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

F1BLK	0056 ..	F1D7	003C ..	F1ID	002C ..	F1SEC	005D 10
F1BL8	005D 20	F1D8	003D ..	F1KEYL	005A ..	F1SECAL	005E ..
F1CISIZE	004E ..	F1END	006F ..	F1LEN	 90	F1SECALL	005F ..
F1CRDTE	0035 ..	F1EXCNT	003B ..	F1LRP	0062 ..	F1SECOPT	005E ..
F1DSI	005D ..	F1EXPDT	0038 ..	F1LVOL	005D 80	F1SER	002D ..
F1DSN	0000 ..	F1EXSEQ	006A ..	F1OPT	0055 ..	F1START	006B ..
F1DWDS	 12	F1EXTS	0069 ..	F1PNT	0088 ..	F1SYSCOD	003E ..
F1D10	004B ..	F1EXTYP	0069 ..	F1POINT	0087 ..	F1VSEQ	0033 ..
F1D12	0054 ..	F1FTYPE	0052 ..	F1RECL	0058 ..	F1WPW	005D 04
F1D21	0067 ..	F1HIORD	0087 ..	F1RKP	005B ..		

IMMBLOK: IMMEDIATE COMMAND SUPPORT

This block is created whenever an immediate command is established; it contains information about the immediate command. IMMBLOK is invoked by the IMMBLOK macro.



SIZE

SIZE IN BYTES (IMMBYTES) 20
SIZE IN DOUBLEWORDS (IMMDWDS) 04
IMMNEXT DISP INTO IMMBLOK (IMMNEXTD) 00

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IMMNEXT	4		POINTER TO NEXT IMMBLOK
	Values Defined in IMMNEXT			
04	IMMNEXTL			LENGTH OF IMMNEXT FIELD
4	IMMUWORD	4		USER WORD
8	IMMNAME	8		IMMEDIATE COMMAND NAME
10	IMMFLAG1	1	I*1	FLAGS
	Values Defined in IMMFLAG1			
80	IMMSYS			IMMEDIATE COMMAND IS A NUCLEUS EXTENSION WITH SYSTEM ATTRIBUTE
40	IMMCOUNT			IMMEDIATE COMMAND ESTABLISHED VIA IMMCMD COMMAND
20	IMMNUCX			IMMEDIATE COMMAND IS A NUCLEUS EXTENSION
11	IMMFLAG2	3		RESERVED
14	IMMADDR	4		ADDRESS OF EXIT ROUTINE
18	IMMHIDE	4		NUMBER OF NUCLEUS EXTENSIONS THAT ARE HIDING THIS IMMEDIATE COMMAND

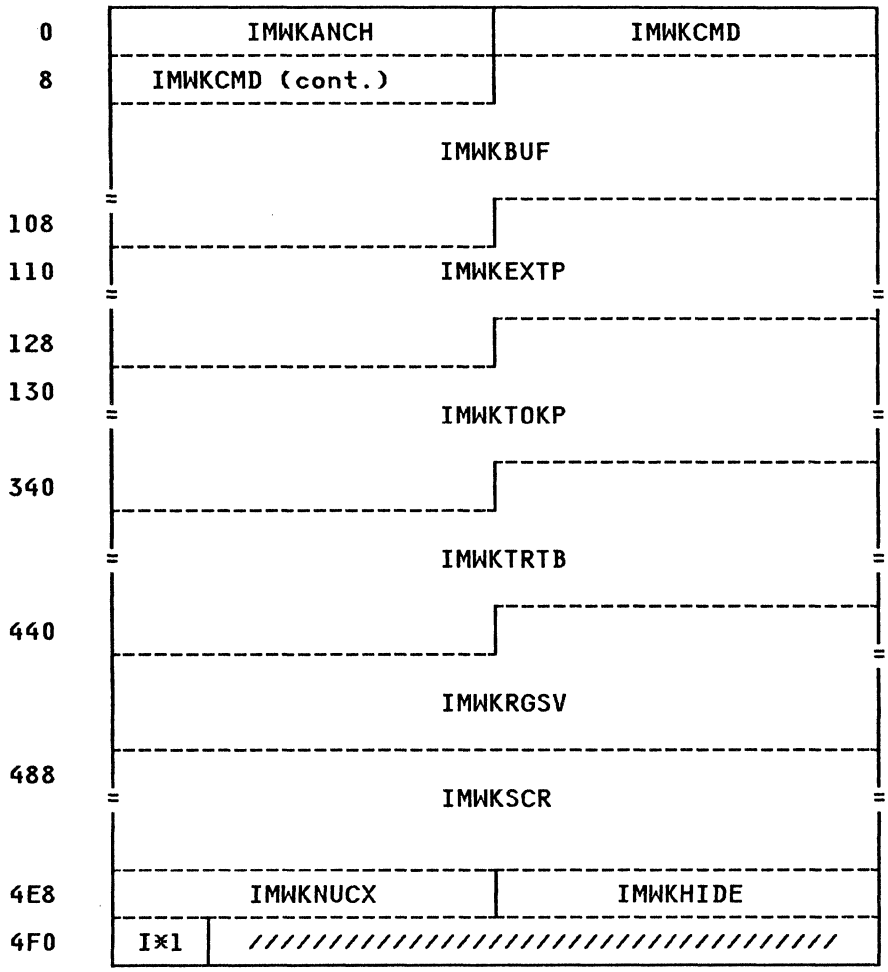
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

IMMADDR	0014 ..	IMMFLAG1	0010 ..	IMMNEXT	0000 ..	IMMNUCX	0010 20
IMMBYTES	0000 20	IMMFLAG2	0011 ..	IMMNEXTD	0000 00	IMMSYS	0010 80
IMMCOUNT	0010 40	IMMHIDE	0018 ..	IMMNEXTL	0000 04	IMMUWORD	0004 ..
IMMDWDS	0000 04	IMMNAME	0008 ..				

IMWKSECT: IMMEDIATE COMMAND WORKAREA

This macro contains information about the CMS immediate commands and is invoked by the IMWKSECT macro.



SIZE

SIZE OF BLOCK IN DOUBLEWORDS (IMWKDWDS) 09E
SIZE OF BLOCK IN BYTES (IMWKBYTS) 4F8

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IMWKANCH	4		POINTER TO IMMBLOK ANCHOR
4	IMWKCMD	8		CURRENT IMMEDIATE COMMAND
C	IMWKBUF	256		COPY OF INPUT LINE AS ENTERED FROM TERMINAL
10C	IMWKEXTP	32		SAVED COPY OF LAST REGULAR COMMAND EXTENDED PLIST

DISP	NAME	LEN	KEY	DESCRIPTION
12C	IMWKTOKP	536		SAVED COPY OF LAST REGULAR COMMAND TOKENIZED PLIST
344	IMWKTRTB	256		TRANSLATE TABLE TO DETERMINE LINE LENGTH
444	IMWKRGSV	64		DMSCIT REGISTER SAVE AREA
	IMWKRG10			LOCATION OF REGISTER 10 IN SAVEAREA
488	IMWKSCR	96		IMMEDIATE COMMAND EXIT SAVE AREA
4E8	IMWKNUCX	4		NUMBER OF IMMEDIATE COMMANDS THAT ARE ALSO NUCLEUS EXTENSIONS
4EC	IMWKHIDE	4		TOTAL NUMBER OF NUCLEUS EXTENSIONS THAT ARE CURRENTLY HIDING IMMEDIATE COMMANDS
4F0	IMWKFLGS	1		FLAGS

Values Defined in IMWKFLGS

80	IMCMDACT	IMMEDIATE COMMAND IS ACTIVE
40	IMWKGOT	TEMPORARY SWITCH USED BY DMSITS TO DETERMINE IF IT GOT THE WORKAREA

4F8	IMWKEND	0

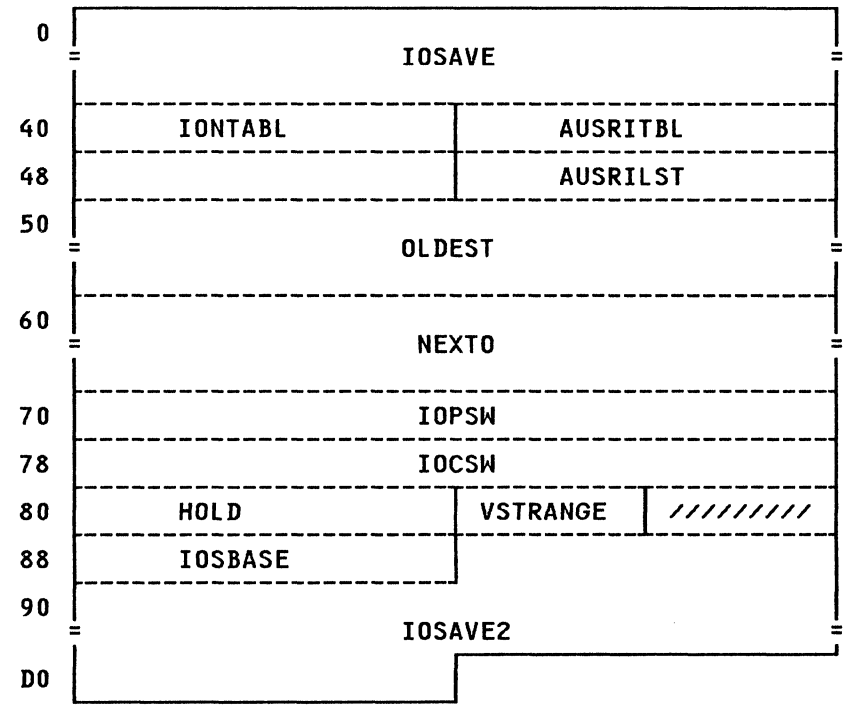
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

IMCMDACT	0478	80	IMWKDWDS	0000	90	IMWKGOT	0478	40	IMWKRG10	....	..
IMWKANCH	0000	..	IMWKEND	04F8	..	IMWKHIDE	04EC	..	IMWKSCR	0488	..
IMWKBUF	000C	..	IMWKEXTP	010C	..	IMWKNUCX	04E8	..	IMWKTOKP	012C	..
IMWKBYTS	0000	80	IMWKFLGS	04F0	..	IMWKRGSV	0444	..	IMWKTRTB	0344	..
IMWKCMD	0004	..									

IOSECT: I/O INTERRUPT SAVE AREA

IOSECT describes the fields used by DMSITI for save registers, I/O old PSW, and other data when handling I/O interrupts. IOSECT is pointed to by the AIOSECT field in NUCON. IOSECT is invoked by the IOSECT macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IOSAVE	64		REGISTER SAVE AREA
40	IONTABL	4		SIZE OF USER INTERRUPT TABLE (DOUBLEWORDS)
44	AUSRITBL	4		ADDRESS OF USER INTERRUPT TABLE
48		4		LENGTH OF EACH ENTRY
4C	AUSRILST	4		ADDRESS OF LAST ENTRY IN TABLE
50	OLDEST	16		OLDEST I/O OLD PSW AND CSW
60	NEXTO	16		NEXT OLDEST I/O OLD PSW AND CSW
70	IOPSW	8		NEWEST I/O OLD PSW
78	IOCSW	8		NEWEST CSW
80	HOLD	4		HOLDS ENTRY POINTER FOR DEVICE

DISP	NAME	LEN	KEY	DESCRIPTION
84	VSTRANGE	2		UNKNOWN DEVICE ADDRESS SAVED HERE
86		2		RESERVED FOR FUTURE USE
88	IOSBASE	4		SAVE DSMITI'S BASE REGISTER
8C	IOSAVE2	72		SAVE AREA USED BY ROUTINES CALLED FROM DMSITI

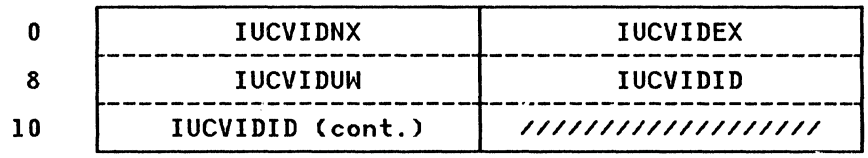
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

AUSRILST 004C ..	IOCSW 0078 ..	IOSAVE 0000 ..	NEXTO 0060 ..
AUSRITBL 0044 ..	IONTABL 0040 ..	IOSAVE2 008C ..	OLDEST 0050 ..
HOLD 0080 ..	IOPSW 0070 ..	IOSBASE 0088 ..	VSTRANGE 0084 ..

IUCVIDBK: IUCV PROGRAM IDENTIFICATION BLOCK

This block is created each time a program identifies itself as an IUCV program to CMS via the HNDIUCV SET function. IUCVIDBK is invoked by the IUCVIDBU MACRO.



SIZE

SIZE OF AREA IN DOUBLEWORDS (IUCVIDSZ) 03

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IUCVIDNX	4		POINTER TO NEXT ENTRY
4	IUCVIDEX	4		ADDRESS OF THE EXIT
8	IUCVIDUW	4		ADDRESS OF THE USER FULLWORD
C	IUCVIDID	8		IDENTITY OF THE PROGRAM
14		4		RESERVED

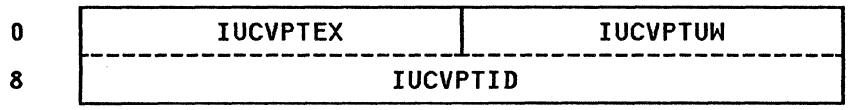
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
IUCVIDEX 0004 ..     IUCVIDNX 0000 ..     IUCVIDSZ 0000 03
IUCVIDID 000C ..                          IUCVIDUW 0008 ..
```

IUCVPTBK: IUCV PATH TABLE BLOCK

This block maps an entry in the internal CMS IUCV path table. There is one entry for each IUCV path in the virtual machine. IUCVPTBK is invoked by the IUCVPTBK macro.



SIZE

SIZE OF AREA IN DOUBLEWORDS (IUCVPTSZ) 02

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IUCVPTEX	4		ADDRESS OF THE PROGRAM EXIT
4	IUCVPTUW	4		ADDRESS OF THE USER FULLWORD
8	IUCVPTID	8		ID OF PROGRAM WHO OWN'S THIS PATH

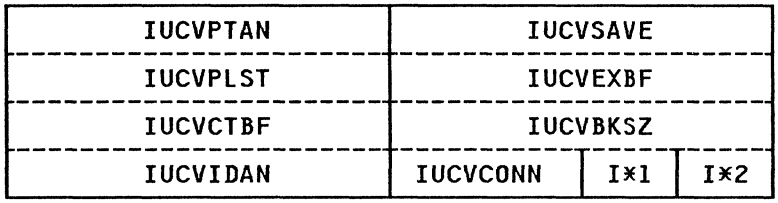
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
IUCVPTEX 0000 ..    IUCVPTSZ 0000 02
IUCVPTID 0008 ..    IUCVPTUW 0004 ..
```

IUCVTAB: IUCV TABLE

This block is the main IUCV control block; it contains information about the virtual machine's IUCV environment. IUCVTAB is invoked by the IUCVTAB macro.



SIZE

SIZE OF IUCVTAB IN DOUBLEWORDS (IUCVSIZE) 04

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IUCVPTAN	4		ANCHOR OF PATH TABLE CHAIN
4	IUCVSAVE	4		POINTER TO A 23 BYTE SAVE AREA
8	IUCVPLST	4		POINTER TO A PLIST FOR IUCV
C	IUCVEXBF	4		POINTER TO EXTERNAL INTERRUPT BUFFER
10	IUCVCTBF	4		POINTER TO CONTROL EIB
14	IUCVBKSZ	4		SIZE OF THE 4 PREVIOUS AREAS IN DOUBLEWORDS
18	IUCVIDAN	4		ANCHOR OF PROGRAM IDENTITY CHAIN
1C	IUCVCONN	2		MAXIMUM NUMBER OF IUCV CONNECTS
1E	IUCVSETF	1	I*1	INDICATES IF CMS'S SET WORKED
1F	IUCVACTV	1	I*2	INDICATES IF USERS OTHER THAN CMS HAVE DONE HNDIUCV SETS

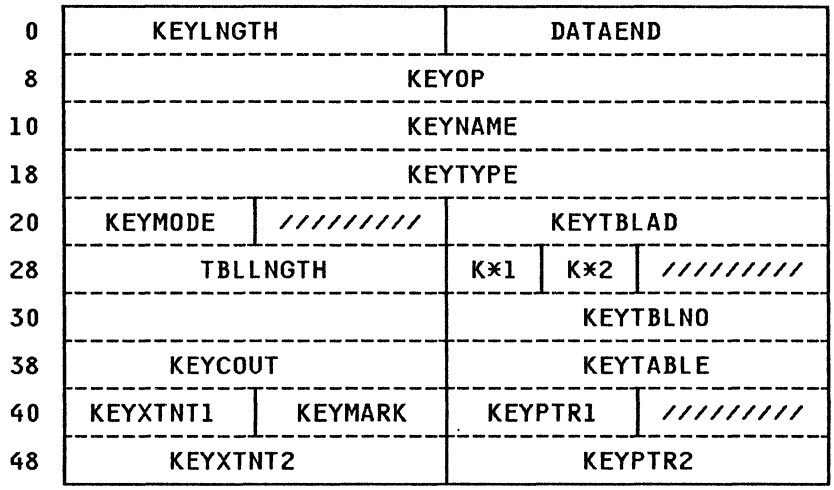
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

IUCVACTV 001F ..	IUCVCTBF 0010..	IUCVPLST 0008 ..
IUCVSETF 001E ..	IUCVBKSZ 0014 ..	IUCVEXBF 000C ..
IUCVPTAN 0000 ..	IUCVSIZE 04	IUCVCONN 001C ..
IUCVIDAN 0018 ..	IUCVSAVE 0004 ..	

KEYSECT: DISK KEY TABLE DSECT FOR BDAM SIMULATION

KEYSECT defines by key, the key table used for I/O in OS simulation of BDAM files. KEYSECT is built dynamically from CMS free storage. KEYSECT is invoked via the KEYSECT macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	KEYLNGTH	4		KEY LENGTH
4	DATAEND	4		ITEM POINTER TO LAST DATA ITEM IN FILE
8	KEYOP	8		START OF PLIST FOR KEYS FILE
10	KEYNAME	8		NAME OF KEYS FILE
18	KEYTYPE	8		FILE TYPE OF KEYS FILE
20	KEYMODE	2		FILE MODE OF KEYS FILE
22		2		RESERVED
24	KEYTBLAD	4		ADDRESS OF KEY TABLE
28	TBLLNGTH	4		BYTE SIZE OF KEY TABLE
2C	KEYFORM	1	K*1	FORMAT OF KEYS FILE
2D	KEYCHNG	1	K*2	RDBUF/WRBUF PLIST FLAG
	Values Defined in KEYCHNG			
	20 KEYEXTPL			EXTENDED PLIST FLAG
	01 KEYCHANG			INDICATES CHANGE IN KEY TABLE
2E		2		RESERVED

DISP	NAME	LEN	KEY	DESCRIPTION
30		4		NUMBER OF BYTES READ
34	KEYTBLNO	4		ITEM NUMBER OF KEY TABLE
38	KEYCOUT	4		BLOCKING FACTOR OF KEY TABLE
3C	KEYTABLE	4		START OF TABLE (ITEM) FULL OF KEYS
3C	KEYEOF	4		EOF MARKER
40	KEYXTNT1	2		XTENT AREA IF ≤ 65535
42	KEYMARK	2		BDAM KEY INDICATOR
44	KEYPTR1	2		POINTER TO KEYS IF ≤ 65535
46		2		RESERVED
48	KEYXTNT2	4		XTENT AREA IF > 65535
4C	KEYPTR2	4		POINTER TO KEYS IF > 65535

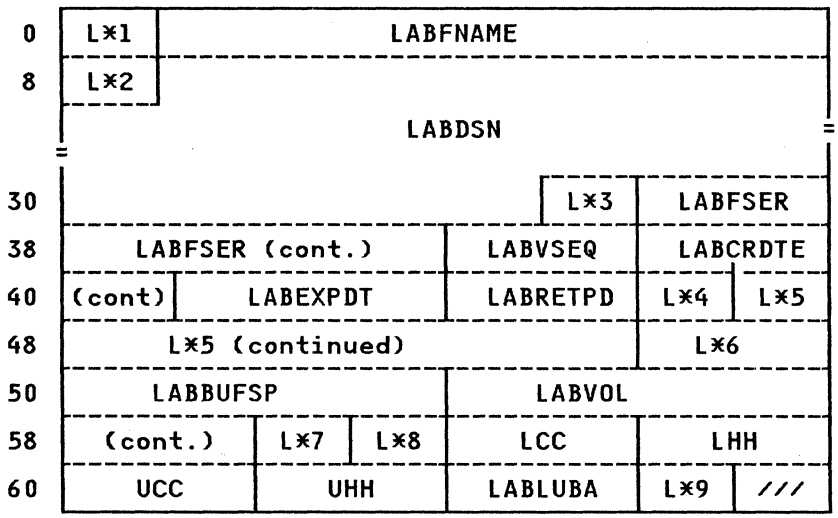
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

DATAEND	0004 ..	KEYFORM	002C ..	KEYOP	0008 ..	KEYTBLNO	0034 ..
KEYCHANG	002D 01	KEYLNGTH	0000 ..	KEYPTR1	0044 ..	KEYTYPE	0018 ..
KEYCHNG	002D ..	KEYMARK	0042 ..	KEYPTR2	004C ..	KEYXTNT1	0040 ..
KEYCOUT	0038 ..	KEYMODE	0020 ..	KEYTABLE	003C ..	KEYXTNT2	0048 ..
KEYEOF	003C ..	KEYNAME	0010 ..	KEYTBLAD	0024 ..	TBLLNGTH	0028 ..
KEYEXTPL	002D 20						

LABREC: DLBL/EXTENT LABEL

LABREC describes the fields within a DLBL/extent record and is used in the CMS/DOS environment. LABREC is invoked via the LABREC macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LABEXN			NUMBER EXTENTS
0	LABIND	1	L*1	DLBL/EXTENT INDICATOR

Values Defined in LABIND

80	LABNPAK	NEXT EXTENT ON NEW PACK
40	LABLAST	LAST EXTENT
20	LABYPAS	BYPASS EXTENT
10	LABNVOL	NEW VOL ON SAME UNIT
08	LABOMIT	EXTENT LIMITS OMITTED
04	LABCONV	EXTENT CONVERTED TO DASD ADDRESS
02	LABNO	NO EXTENT CARD
01	LABSEC	SECURED FILE

1	LABFNAME	7		FILENAME
8	LABDAISS	1	L*2	DA/IS INDICATORS

Values Defined in LABDAISS

80	LABADREC	ADDRESS LABEL RECORD FOLLOW
40	LABCISSW	CI-SIZE IS SPECIFIED
20	LABBLKSW	BLKSIZE IS SPECIFIED
10	LABFBAIN	FBA INDICATOR
08	LABOMT	EXTENT LIMITS OMITTED
04	LABCON	EXT CONVERTED TO DASD ADDRESS
02	LABCTREC	LABEL CONT. RECORD

DISP	NAME	LEN	KEY	DESCRIPTION
9	LABDSN	44		DATA SET NAME
35	LABFID	1	L*3	FORMAT ID
36	LABFSER	6		VOLID OF FIRST EXTENT
3C	LABVSEQ	2		VOLUME SEQUENTIAL NUMBER
3E	LABCRDTE	3		CREATION DATE
41	LABEXPDT	3		EXPIRATION DATE
44	LABRETPD	2		RETENTION PERIOD
46	LABOPCOD	1	L*4	DLBL TYPE
47	LABSYSCD			SYSTEM CODE
47	LABVSAM			VSAM OWNED FLD
47	LABUCNAM	7	L*5	USER CATALOG NAME
4E		2	L*6	
4C	LABCISZ	4		CI-SIZE
50	LABBUFSP	4		BUFFER SIZE
54	LABEXT			
54	LABVOL	6		VOLID
5A	LABTYP	1	L*7	TYPE OF EXTENT
5B	LABSEQ	1	L*8	EXTENT NUMBER
5C	LABST			START OF EXTENT
5C	LABSTBK			
5C	LCC	2		LOWER CYL
5E	LHH	2		LOWER HEAD
60	LABED			EXTENT END
60	LABENDBK			
60	UCC	2		UPPER CYL
62	UHH	2		UPPER HEAD
64	LABLUBA	2		LUB UNIT
66	LABSW	1	L*9	SWITCHES
	Values Defined in LABSW			
80	LAB64K			BLOCK ADDRESS AND/OR NUMBER OF BLOCKS 64K-1
67		1		RESERVED

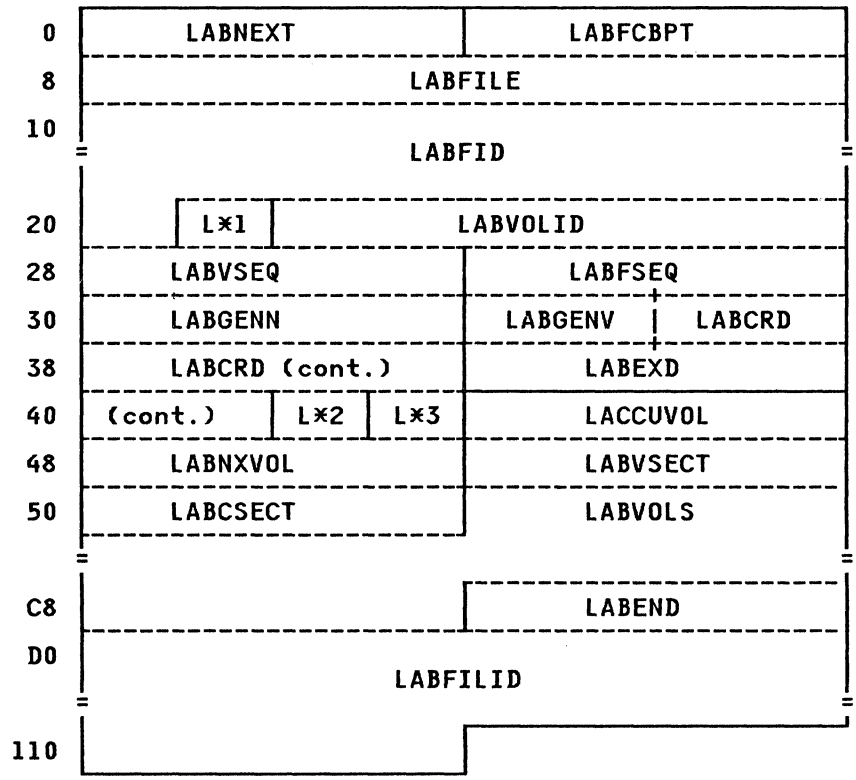
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

LABADREC	0008	80	LABED	0060	..	LABNO	0000	02	LABSYSCD	0047	..
LABBLKSW	0008	20	LABENDBK	0060	..	LABNPAK	0000	80	LABTYP	005A	..
LABBLKSZ	0050	..	LABEXN	0000	..	LABNVOL	0000	10	LABUCNAM	0047	..
LABBUFSP	0050	..	LABEXPDT	0041	..	LABOMIT	0000	08	LABVOL	0054	..
LABCISSW	0008	40	LABEXT	0054	..	LABOMT	0008	08	LABVSAM	0047	..
LABCISZ	004C	..	LABFBAIN	0008	10	LABOPCOD	0046	..	LABVSEQ	003C	..
LABCON	0008	04	LABFID	0035	..	LABRETPD	0044	..	LABYPAS	0000	20
LABCONV	0000	04	LABFNAME	0001	..	LABSEC	0000	01	LAB64K	0066	80
LABCRDTE	003E	..	LABFSER	0036	..	LABSEQ	005B	..	LCC	005C	..
LABCTREC	0008	02	LABIND	0000	..	LABST	005C	..	LHH	005E	..
LABDAISS	0008	..	LABLAST	0000	40	LABSTBK	005C	..	UCC	0060	..
LABDSN	0009	..	LABLUBA	0064	..	LABSW	0066	..	UHH	0062	..

LABSECT: TAPE LABEL INFORMATION

LABSECT contains user-supplied tape label information used by CMS tape label processing. LABSECT is invoked via the LABSECT macro.



SIZE

LABSECT SIZE IN DOUBLEWORDS (LABSIZE) 1A

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LABNEXT	4		FORWARD CHAIN POINTER
4	LABFCBPT	4		POINTER TO FCBSECT OR ZERO
8	LABFILE	8		NAME OF FILE (DDNAME) FOR BLOCK
10	LABFID	17		FILE ID(RIGHTMOST 17 CHARACTERS)
21	LABSEC	1	L*1	SECURITY
22	LABVOLID	6		VOLUME SERIAL NUMBER (VOLID)
28	LABVSEQ	4		VOLUME SEQUENCE NUMBER
2C	LABFSEQ	4		FILE SEQUENCE NUMBER

DISP	NAME	LEN	KEY	DESCRIPTION
30	LABGENN	4		GENERATION NUMBER
34	LABGENV	2		GENERATION VERSION
36	LABCRD	6		CREATION DATE
3C	LABEXD	6		EXPIRATION DATE
42	LABFLAG1	1	L*2	DEFAULT FLAGS BYTE:

Values Defined in LABFLAG1

80	LABDFID	DEFAULT FILE ID
40	LABDSEC	DEFAULT SECURITY
20	LABDVID	DEFAULT VOLUME SERIAL NUMBER
10	LABDVSEQ	DEFAULT VOLUME SEQUENCE NUMBER
08	LABDFSEQ	DEFAULT FILE SEQUENCE NUMBER
04	LABDGENN	DEFAULT GENERATION NUMBER
02	LABDGENV	DEFAULT GENERATION VERSION
01	LABDCRD	DEFAULT CREATION DATE

43	LABFLAG2	1	L*3	MISCELLANEOUS FLAGS BYTE:

Values Defined in LABFLAG2

80	LABDEXD	DEFAULT EXPIRATION DATE
40	LABSCRAT	DO 'SCRATCH' VOLID PROCESSING
20	LABSCRSP	SCRATCH SPECIFIED; NOT DEFAULT
04	LABFDEF	LABSECT GOTTEN BY FILEDEF
02	LABPERM	PERMANENT SPECIFIED
01	LABNOCHG	NOCHANGE SPECIFIED

44	LABCUVOL	4		POINTER TO CURRENT VOLID MOUNTED
48	LABNXVOL	4		POINTER TO NEXT VOLID TO MOUNT
4C	LABVSECT	4		FORWARD CHAIN POINT TO VOLSECT
50	LABCSECT	4		VOLSECT ADDR OF CURRENT VOLID
54	LABVOLS	120		SPACE FOR 15 ADDITIONAL VOLIDS
CC	LABEND	4		FENCE FOR END OF VOLIDS
D0	LABFILID	44		FILE IDENTIFIER

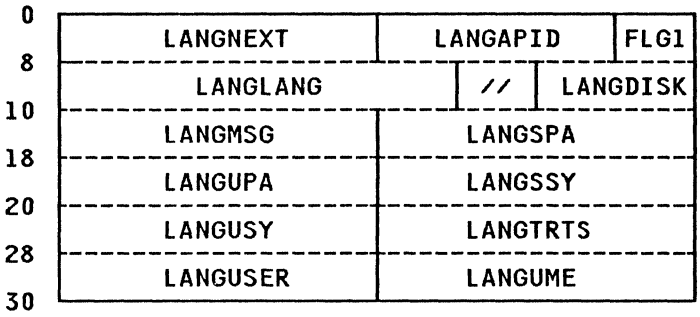
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

LABCRD	0036 ..	LABDSEC	0042 40	LABFILID	00D0 ..	LABPERM	0043 02
LABCSECT	0050 ..	LABDVID	0042 20	LABFLAG1	0042 ..	LABSCRAT	0043 40
LABCUVOL	0044 ..	LABDVSEQ	0042 10	LABFLAG2	0043 ..	LABSCRSP	0043 20
LABDCRD	0042 01	LABEND	00CC ..	LABFSEQ	002C ..	LABSEC	0021 ..
LABDEXD	0043 80	LABEXD	003C ..	LABGENN	0030 ..	LABSIZE	.... 1A
LABDFID	0042 80	LABFCBPT	0004 ..	LABGENV	0034 ..	LABVOLID	0022 ..
LABDFSEQ	0042 08	LABFDEF	0043 04	LABNEXT	0000 ..	LABVOLS	0054 ..
LABDGENN	0042 04	LABFID	0010 ..	LABNOCHG	0043 01	LABVSECT	004C ..
LABDGENV	0042 02	LABFILE	0008 ..	LABNXVOL	0048 ..	LABVSEQ	0028 ..

LANGBLK: NATIONAL LANGUAGE SUPPORT (NLS) -- SET LANGUAGE

LANGBLK points to language information that an application uses. The LANGBLK for the default language is in DMSNUC. A LANGBLK is created via the set language command.



SIZE

BYTES OF STORAGE FOR LANGBLK (LANGBLKB) 30
DOUBLE WORDS OF STORAGE FOR LANGBLK (LANGBLKD) 6

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LANGNEXT	4		POINTER TO NEXT LANGBLK
4	LANGAPID	3		APPLICATION ID
7	LANGFLG1	1		FLAG BYTE
	Values Defined in LANGFLG1			
80	LANGET			ON INDICATES DBCS LANGUAGE
40	LANGUSSY			USER SYNONYMS WANTED
20	LANGUSTR			USER TRANSLATIONS WANTED
10	LANGSYSY			SYSTEM SYNONYMS UANTED
08	LANGSYTR			SYSTEM TRANSLATIONS WANTED
8	LANGLANG	5		LANGUAGE IDENTIFIER
D		1		
E	LANGDISK	2		HELP (OR APPLICATION) DISK ADDRESS
10	LANGMSG	4		MESSAGE REPOSITORY
14	LANGSPA	4		SYSTEM PARSER TABLE
18	LANGUPA	4		USER PARSER TABLE
1C	LANGSSY	4		SYSTEM SYNONYM AND ABBREVIATION TABLE
20	LANGUSY	4		USER SYNONYM AND ABBREVIATION TABLE
24	LANGTRTS	4		NLS TRANSLATION TABLES
28	LANGUSER	4		RESERVED FOR APPLICATION'S USE

DISP	NAME	LEN	KEY	DESCRIPTION
2C	LANGUME	4		USER ADDITIONS TO MESSAGE REPOSITORY

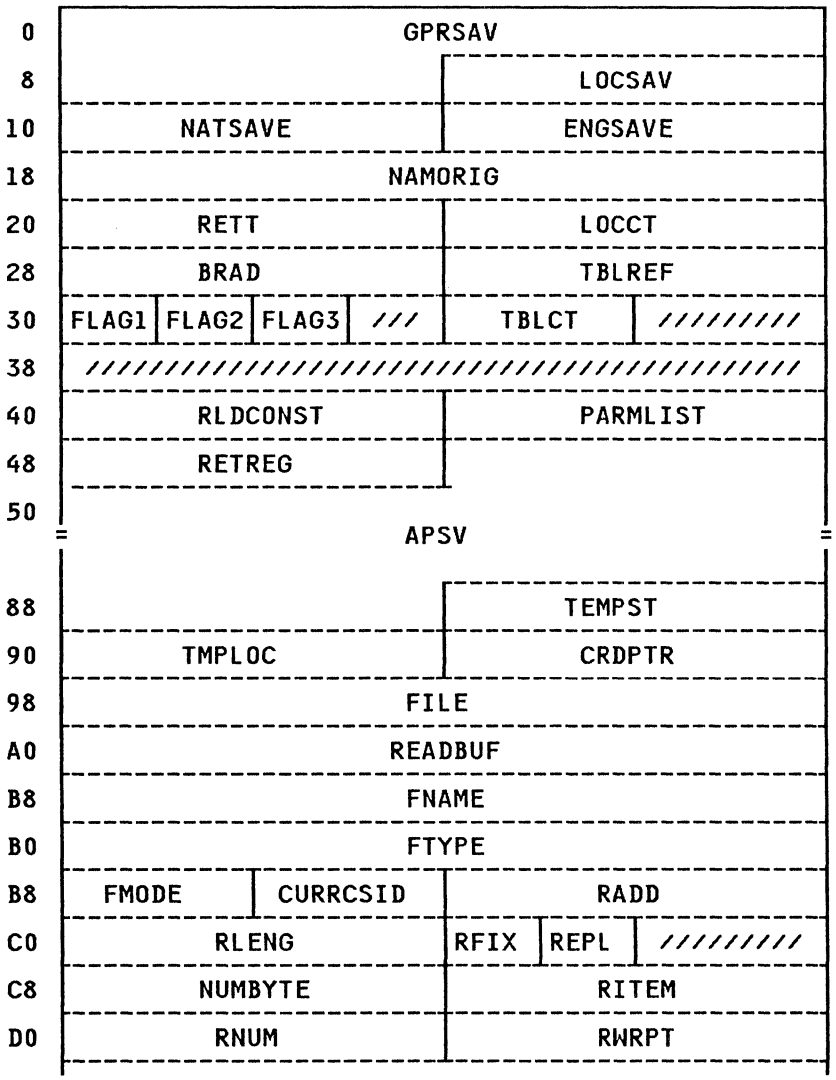
CROSS REFERENCE (Name Disp Value)

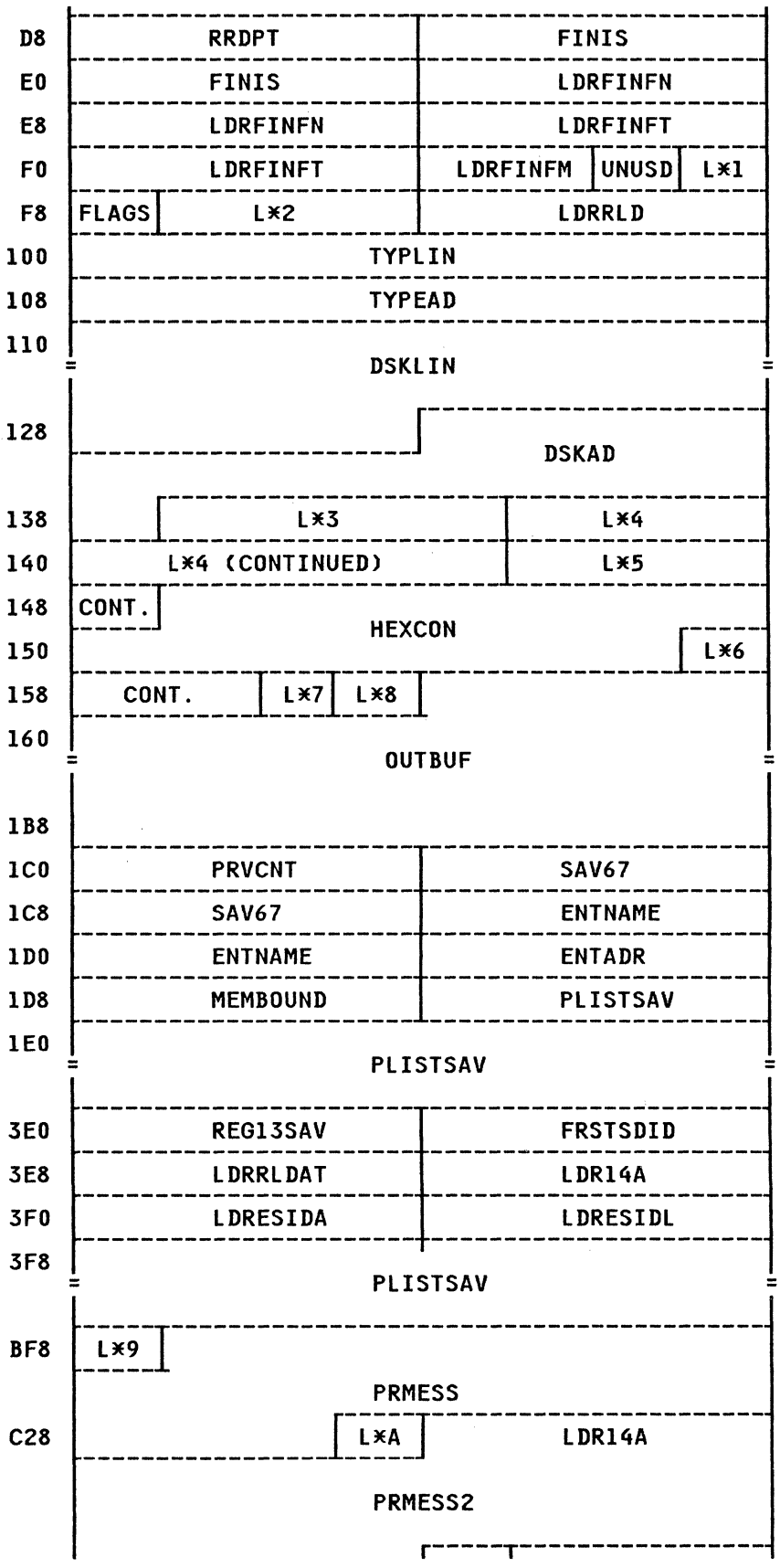
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

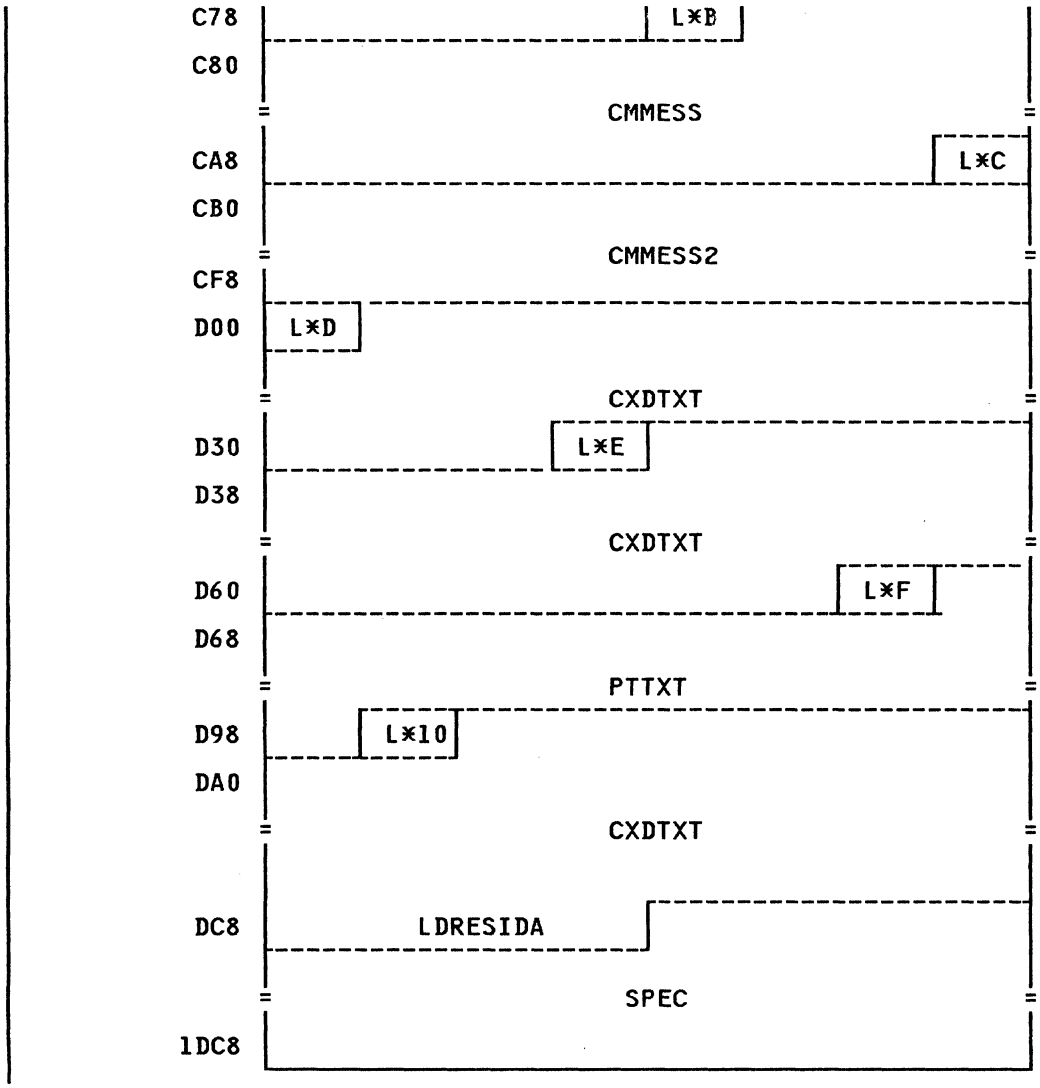
LANGAPID	0004	..	LANGFLG1	0007	..	LANGSSY	001C	..	LANGUPA	0018	..
LANGBLKB	....	30	LANGLANG	0008	..	LANGSYSY	0007	10	LANGUSER	0028	..
LANGBLKD	....	06	LANGMSG	0010	..	LANGSYTR	0007	08	LANGUSSY	0007	40
LANGDISK	000E	..	LANGNEXT	0000	..	LANGTRTS	0024	..	LANGUSTR	0007	20
LANGET	0007	80	LANGSPA	0014	..	LANGUME	002C	..	LANGUSY	0020	..

LDRST: LOADER STORAGE AREA

LDRST describes the fields of the work area used by the loader. The work area is obtained and built dynamically by DMSLDR from CMS free storage. LDRST is invoked via the LDRST macro.







SIZE

ENDFREE-LDRST LENGTH IN DOUBLEWORDS (NEED) 123

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	GPRSAV	12		REGISTERS 9-12
C	LOCSAV	4		BASE REGISTER A(DMSLDRA)
10	NATSAV	4		NATIVE LANG. PLIST PTR.
14	ENGSAV	4		ENGLISH PLIST POINTER
18	NAMORIG	8		"ORIGIN" NAME VALUE
20	RETT	4		RETURN REGISTER FOR DMSLSB
24	LOCCT	4		(LOCCNT) NEXT LOAD LOCATION

DISP	NAME	LEN	KEY	DESCRIPTION
28	BRAD	4		(STRTADDR) START EXECUTION ADDRESS
2C	TBLREF	4		(ALDRTBL) TOP OF LOADER TABLE
30	FLAG1	1		LOADER SWITCHES (PERMANENT)
	Values Defined in FLAG1			
	80 ABSOLUTE			ABSOLUTE LOADING
	40 FSTXTADR			FIRST TEXT ADDRESS SAVED
	20 COMMONEX			COMMON ENTRIES EXIST IN LOADER TABLE
	10 PREXIST			PR ENTRIES EXIST IN LOADER TABLE
	08 ENDCDADR			ALLOW END CARD ADDRESS
	04 NOERASE			DON'T ERASE THE LOAD MAP
	02 WORKFILE			WORK FILE EXISTS
	01 NODUP			DO NOT TYPE MSG 202W
31	FLAG2	1		LOADER SWITCHES (PERMANENT)
	Values Defined in FLAG2			
	80 STRINITC			CALL STRINIT ON LOADMOD
	40 NOMAP			DO NOT CREATE A LOAD MAP
	20 APRILB			REP CARD PROCESSING CONTROL
	10 NOAUTO			NO AUTOMATIC TEXT DECK CHECKING
	08 TYPE			TYPE LOAD MAP AT TERMINAL
	04 NOREP			NO REP CARD PRINTING
	02 NOINV			NO INVALID CARD TYPEOUT
	01 NOLIBE			NO AUTOMATIC TXT LIBRARY SEARCHING
32	FLAG3	1		MORE FLAGS
	Values Defined in FLAG3			
	80 CMD			PROCESSING NAMES FROM CMD LIST
	40 RLDSAVE			FOR USE IN SUBSEQUENT GENMOD COMMANDS
	20 HISTORY			HIST OPTION OF LOAD OR INCLUDE SPECIFIED. SAVE THE COMMENTS WHEN LOADING TEST FILES FOR SUBSEQUENT GENMOD.
	10 HISTFULL			THE HISTORY BUFFER IS FULL. DO NOT CONTINUE PROCESSING HISTORY DATA DURING THIS COMMAND.
33		1		RESERVED
34	TBLCT	2		NUMBER OF ENTRIES IN LOADER TABLE
36		10		RESERVED
40	RLDCONST	4		RELOCATION CONSTANT
44	PARMLIST	4		UPDATED PARAMETER LIST POINTER
48	RETREG	4		RETURN REGISTER
4C	APSV	64		REGISTER SAVE AREA FOR SUBROUTINE CALLS
8C	TEMPST	4		TEMPORARY RLD ROUTINE STORAGE
90	TMPLOC	4		TEMPORARY STORAGE
94	CRDPTR	4		INPUT CARD POINTER
98	FILE	8		SAVE LOCATION FOR DMSLIB
A0	LDRREAD	0		PARAMETER LIST FOR READING CARDS
A0	READBUF	8		INPUT READ PARAMETER LIST
A8	LDRFILE	0		FILE NAME, TYPE, AND MODE FIELDS

DISP	NAME	LEN	KEY	DESCRIPTION
A8	FNAME	8		FILE NAME
B0	FTYPE	8		FILE TYPE
B8	FMODE	2		FILE MODE
BA	CURRCSID	2		CURRENT CSECT ID
BC	RADD	4		BUFFER ADDRESS
C0	RLENG	4		BUFFER LENGTH
C4	RFIX	1		FIXED/VARIABLE FLAG BYTE
C5	REPL	1		EXTENDED P-LIST FLAG
C6		2		UNUSED
C8	NUMBYTE	4		NUMBER OF BYTES ACTUALLY
CC	RITEM	4		ITEM NUMBER
D0	RNUM	4		NUMBER OF ITEMS
D4	RWRPT	4		WRITE POINTERER LIST
D8	RRDPT	4		READ POINTER
DC	LDRFINIS	0		ENTIRE FINIS PARAMETER LIST
DC	FINIS	8		FINIS PARAMETER LIST
E4	LDRFINFN	8		FILENAME FOR FINIS PARAMETER LIST
EC	LDRFINFT	8		FILETYPE FOR FINIS PARAMETER LIST
F4	LDRFINFM	2		FILEMODE FOR FINIS PARAMETER LIST
F6		1		UNUSED
F7	LDRFLAG4	1	L*1	FLAGS(NON-PERMANENT)

Values Defined in LDRFLAG4

80	ESD1STN	ESD1ST NOT PREVIOUSLY ON FOR PC
40	LDRCRLD	DMSLDRC RETURNS TO RLD
10	LDRESIDX	ON =ESID TABLE EXTENDED
08	LDRPR	ON =PR TYPE CALLING SRCH

F8	FLAGS	1	L*2	LOADER SWITCHES(NON-PERMANENT)

Values Defined in FLAGS

80	START	START EXECUTION REQUESTED
40	ONEDYNA	ONE CALL TO DYNALOAD PER TEXT FILE
20	ESD1ST	FIRST ESD DATA ITEM THIS CARD
08	SETLIB	SET UP FOR LIBRARY SEARCHING
04	CLOSELIB	CLEAR TXT LIB SEARCHING
02	LUNDEF	UNDEFINED ENTRIES EXIST IN LOADER TABLE
01	RESET	RESET 'ENTRY' SPECIFIED

F9		3		LIBRARY SEARCH WORK AREA POINTER
FC	LDRRLD	4		RLD DATA STACK POINTER
100	TYPLIN	8		TYPLIN PARAMETER LIST

DISP	NAME	LEN	KEY	DESCRIPTION
108	TYPEAD	8		TYPLIN BUFFER ADDRESS
110	DSKLIN	28		DISK PARAMETER LIST FOR LOAD MAP
12C	DSKAD	13		
139		4	L*3	
13D		8	L*4	
145		4	L*5	
149	HEXCON	14		
157		3	L*6	PADDING
15A	OUTPUT	1	L*7	
15B	OUTBUFL	1	L*8	AL1 LENGTH OF OUTBUFL
15C	OUTBUF	100		100X OUTPUT BUFFER FOR LOAD MAP AND TERMINAL PRINT
1C0	PRVCNT	4		ADDRESS OF NEXT PR 'LOAD ADDRESS'
1C4	SAV67	8		TEMPORARY SAVE OF REGS 6 AND 7
1CC	ENTNAME	8		ENTRY NAME (RESET 'ENTRY' OR ENTRY CONTROL CARD)
1D4	ENTADR	4		ENTRY NAME'S LOADER TABLE LOCATION
1D8	MEMBOUND	4		LOW EXTEND OF FREE STORAGE (FREELOWE)
1E0	PLISTSAV	256		LOAD (INCLUDE) PARAMETER LIST SAVED
3E0	REG13SAV	4		SAVE AREA FOR STARTED PROGRAM
3E4	FRSTSDID	4		PLIST POINTER
3E8	LDRRLDAT	4		RLD DATA FIELD
3EC	LDR14A	4		R14 SAVE AREA FOR FIRST LEVEL SUBR
3F0	LDRESIDA	4		ADDRESS OF ESID TABLE
3F4	LDRESIDL	4		LENGTH OF ESID TABLE IN BYTES
3F8	LDRESID	2048		INITIAL ESID TABLE SIZE IN DWORDS
BF8	PRMESSL	1	L*9	LENGTH OF FIRST LINE
BF9	PRMESS	50		FIRST LINE
C2B	PRMESSL2	1	L*A	LENGTH OF SECOND LINE
C2C	PRMESS2	80		SECOND LINE
C7C	CMMESSL	1	L*B	LENGTH OF FIRST LINE
C7D	CMMESS	50		FIRST LINE
CAF	CMMESSL2	1	L*C	LENGTH OF SECOND LINE
CB0	CMMESS2	80		SECOND LINE
D00	CXDMESS	1	L*D	

DISP	NAME	LEN	KEY	DESCRIPTION
D01	CXDTXT	50		
D33	INVCRD	1	L*E	
D34	INVTXT	50		
D66	PTERR	1	L*F	
D67	PTTXT	50		
D99	CTLCRD	1	L*10	
D9A	CTLTXT	50		
DCC	SPEC	4096		CARD INPUT BUFFER

DISP NAME LEN KEY DESCRIPTION

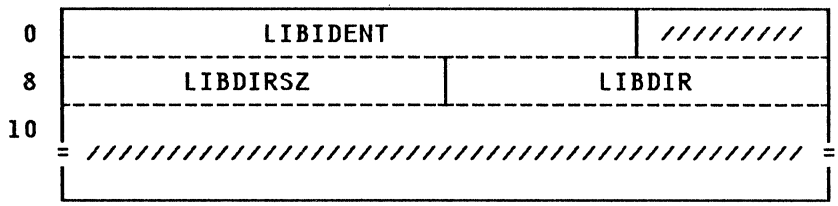
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

ABSOLUTE	0030	80	FLAG2	0031	..	LDR14A	03EC	..	RADD	00BC	..
APRILB	0031	20	FLAG3	0032	..	LOCCT	0024	..	READBUF	00A0	..
APSV	004C	..	FMODE	00B8	..	LOCSAV	000C	..	REG13SAV	03E0	
BRAD	0028	..	FNAME	00A8	..	LUNDEF	00F8	02	REPL	00C5	..
CLOSELIB	00F8	04	FRSTSDID	03E4	..	MEMBOUND	01D8	..	RESET	00F8	01
CMD	0032	80	FSTXTADR	0030	40	NAMORIG	0018	..	RETREG	0048	..
CMMESS	0C7D	..	FTYPE	00B0	..	NATSAV	0010	..	RETT	0020	..
CMMESSL	0C7C	..	GPRSAV	0004	..	NOAUTO	0031	10	RFIX	00C4	..
CMMESSL2	0CAF	..	HEXCON	0149	..	NODUP	0030	01	RITEM	00CC	..
CMMESS2	0CB0	..	HISTFULL	0032	10	NOERASE	0030	04	RLDCONST	0040	..
COMMONEX	0030	20	HISTORY	0032	20	NOINV	0031	02	RLDSAVE	0040	40
CRDPTR	0090	..	INVCRD	0D33	..	NOLIBE	0031	01	RLENG	00C0	..
CTLCRD	0D99	..	INVTXT	0D34	..	NOMAP	0031	40	RNUM	00D0	..
CTLTXT	0D9A		LDRCRLD	00F7	87	NOREP	0031	04	RRDPT	00D8	..
CURRCSID	00BA	..	LDRESID	03F8	..	NUMBYTE	00C8	..	RWRPT	00D4	..
CXDMESS	0D00	..	LDRESIDA	03F0	..	ONEDYNA	00F8	40	SAV67	01C4	..
CSDTXT	0D01	..	LDRESIDD	0100	..	OUTBUF	015C	..	SETLIB	00F8	08
DSKAD	012C	..	LDRESIDL	03F4	..	OUTBUFL	015B	..	SPEC	0DCC	..
DSKLIN	0110	..	LDRESIDX	00F7	10	OUTPUT	015A	..	START	00F8	80
ENDCDADR	0030	08	LDRFILE	00A8	..	PACK	0149	**	STRINITC	0031	80
ENDFREE	1DD0	..	LDRFINFM	00F4	..	PARMLIST	0044	..	TBLCT	0034	..
ENGSAV	0014		LDRFINFN	00E4	..	PLISTSAV	01E0	..	TBLREF	002C	..
ENTADR	01D4	..	LDRFINFT	00EC	..	PREXIST	0030	10	TEMPST	008C	..
ENTNAME	01CC	..	LDRFINIS	00DC	..	PRMESS	0BF9	..	TMPLOC	0090	..
ESD1ST	00F8	20	LDRFLAG4	00F7	..	PRMESSL	0C2B	..	TYPE	0031	08
ESD1STN	00F7	80	LDRPR	00F7	08	PRMESS2	0C2C	..	TYPEAD	0108	..
FILE	0098	..	LDRREAD	00A0	..	PRVCNT	01C0	..	TYPLIN	0100	..
FINIS	00DC	..	LDRRLD	00FC	..	PTERR	0D66	..	UNPACK	014E	**
FLAGS	00F8	..	LDRRLDAT	03E8	..	PTTXT	0050	..	WORKFILE	0030	02
FLAG1	0030	..									

LIBSECT: CMS PDS HEADER

LIBSECT keeps track of the total library size and the address of the CMS PDS directory. LIBSECT is invoked via the LIB macro.



SIZE

PDS IDENTIFIER LENGTH IN BYTES (LIBIDSIZ) 50

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LIBIDENT	6		CMS PDS LIB IDENTIFIER
6		2		RESERVED
8	LIBDIRSZ	4		TOTAL DIRECTORY SIZE IN BYTES
C	LIBDIR	4		DIRECTORY ADDRESS AS FULLWORD EXTENDED ITEM NUMBER
10		64		RESERVED

MAPPING OF SCP FORMAT HEADER ENTRY

06	LIBDIRX		SCP HALFWORD DIR ITEM NUMBER

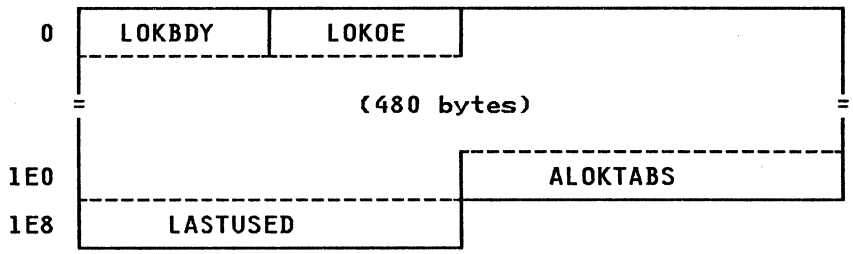
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
LIBDIR   000C ..    LIBDIRX  000C 06    LIBIDENT 0000 ..
LIBDIRSZ 0008 ..                        LIBIDSIZ .... 50
```

LOCKTAB: LOCK/UNLOCK RESOURCE TABLE

LOCKTAB simulates the VSE LOCK/UNLOCK resource table. LOCKTAB is invoked via the LOCKTAB macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LOKBDY	2		ENTRY FOR LOCKTAB SPACE
2	LOKOE	2		ENTRY FOR OWNER ELEMENTS
4	ALOKTABA			START OF LOCK TABLE (480 BYTES MAXIMUM)
1E4	ALOKTABE			END OF LOCK TABLE (VARIABLE)
1E4	ALOKTABS	4		SIZE OF LOCK TABLE (VARIABLE)
1E8	LASTUSED	4		HIGH WATER MARK (VARIABLE)

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
ALOKTABA 0004 ..    ALOKTABS 01E4 ..    LASTUSED 01E8 ..    LOKBDY   0000 ..
ALOKTABE 01E4 ..                                            LOKOE    0002 ..
```

LOGFBFMT: LOG/FORMAT FILE ENTRY

LOGFBFMT describes the format of the programmable operator facility log file and feedback file records. Maximum length for a record is 132. LOGFBFMT is found in PROP copy.

SIZE

LENGTH OF RECORD PREFIX (LGFBTDSP) 26

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LGFBSTRT	0		START OF RECORD
0	LGFBDATE	8		DATE WRITTEN (YY/MM/DD)
8		1		SPACER
9	LGFBTIME	8		TIME WRITTEN (HH:MM:SS)
11		1		SPACER
12	LGFBUSER	8		USERID OF ORIGINATOR
1A		1		SPACER
1B	LGFBNODE	8		NODEID OF ORIGINATOR
23	LGFBCOLN	1		DELIMITER OF TEXT
24		2		SPACER
26	LGFBTEXT	0		MESSAGE TEXT

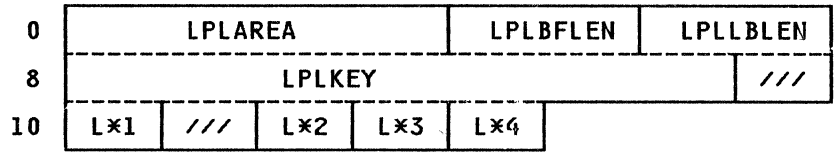
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
LGFBCOLN 0023 ..    LGFBNODE 001B ..    LGFBTDSP .... 26    LGFBTIME 0009 ..
LGFBDATE 0000 ..    LGFBSTRT 0000 ..    LGFBTEXT 0026 ..    LGFBUSER 0012 ..
```

LPLDCT: LABEL MACRO PARAMETER LIST

LPLDCT describes the fields within the label macro input parameter list used in the CMS/DOS environment. LPLDCT is invoked via the LPLDCT macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LPLAREA	4		BUFFER ADDRESS
4	LPLBFLEN	2		LENGTH OF BUFFER
6	LPLLBLEN	2		LENGTH OF LABEL
8	LPLNAM			FILE NAME PLUS INT. SEQUENTIAL NUMBER
8	LPLKEY	7		FILE NAME
F		1		RESERVED
10	LPLGRP			GROUP OF LABELS
10	LPLPNUM	1	L*1	PARTITION IDENTIFICATION
11		1		RESERVED
12	LPLSTORE	1	L*2	OPTION CODE
13	LPLINDIC	1	L*3	LPL INDICATORS
14	LPLSEQNO	1	L*4	EXTENT SEQUENCE NUMBER

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
LPLAREA  0000 ..    LPLINDIC 0013 ..    LPLNAM   0008 ..    LPLSEQNO 0014 ..
LPLBFLEN 0004 ..    LPLKEY   0008 ..    LPLPNUM  0010 ..    LPLSTORE 0012 ..
LPLGRP   0010 ..    LPLLBLEN 0006 ..
```

LUBTAB AND LUBPR: LOGICAL UNIT BLOCK TABLE

LUBTAB is a device table that has a 2-byte entry for each symbolic name used by CMS/DOS. The simulated LUB has 255 entries: 14 entries for the system logical units and 241 entries for programmer logical units. System devices (SYSRDR, SYSIPT, SYSPCH, SYSLST, and SYSLOG) can be assigned to alternate devices. The system and programmer tables are defined with separate DSECTs: LUBTAB and LUBPR. LUBTAB is pointed to by the LUBPT field in BGCOM. The address of the first LUB entry is in the first byte of the FICL control block. Both LUBTAB and LUBPR are invoked via the LUBTAB macro.

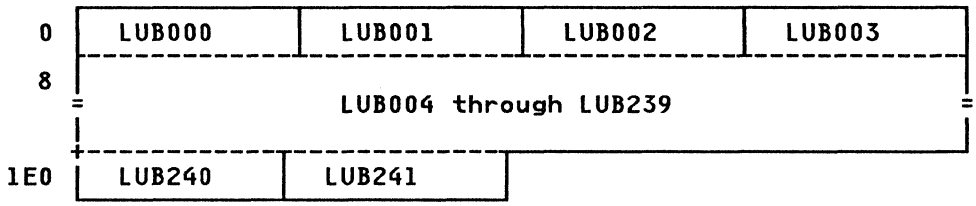
0	LUBRDR	LUBIPT	LUBPCH	LUBLST
8	LUBLOG	LUBLNK	LUBRES	LUBSLB
10	LUBRLB	LUBUSE	LUBREC	LUBCLB
18	LUBVIS	LUBCAT		

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LUBRDR	2		
2	LUBIPT	2		
4	LUBPCH	2		
6	LUBLST	2		
8	LUBLOG	2		
A	LUBLNK	2		
C	LUBRES	2		
E	LUBSLB	2		
10	LUBRLB	2		
12	LUBUSE	2		
14	LUBREC	2		
16	LUBCLB	2		
18	LUBVIS	2		
1A	LUBCAT	2		

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
LUBCAT   001A ..    LUBLOG   0008 ..    LUBREC   0014 ..    LUBSLB   000E ..
LUBCLB   0016 ..    LUBLST   0006 ..    LUBRES   000C ..    LUBUSE   0012 ..
LUBIPT   0002 ..    LUBPCH   0004 ..    LUBRLB   0010 ..    LUBVIS   0018 ..
LUBLNK   000A ..    LUBRDR   0000 ..
```



SIZE

LUB LENGTH IN BYTES (LUBL) 02

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	LUB000	2		
	.			
	.			
	.			
1E0	LUB240	2		
1E2	LUB241	2		
	LUBP			DISPLACEMENT TO PUB POINTER
	LUBJ			DISPLACEMENT TO JIB POINTER

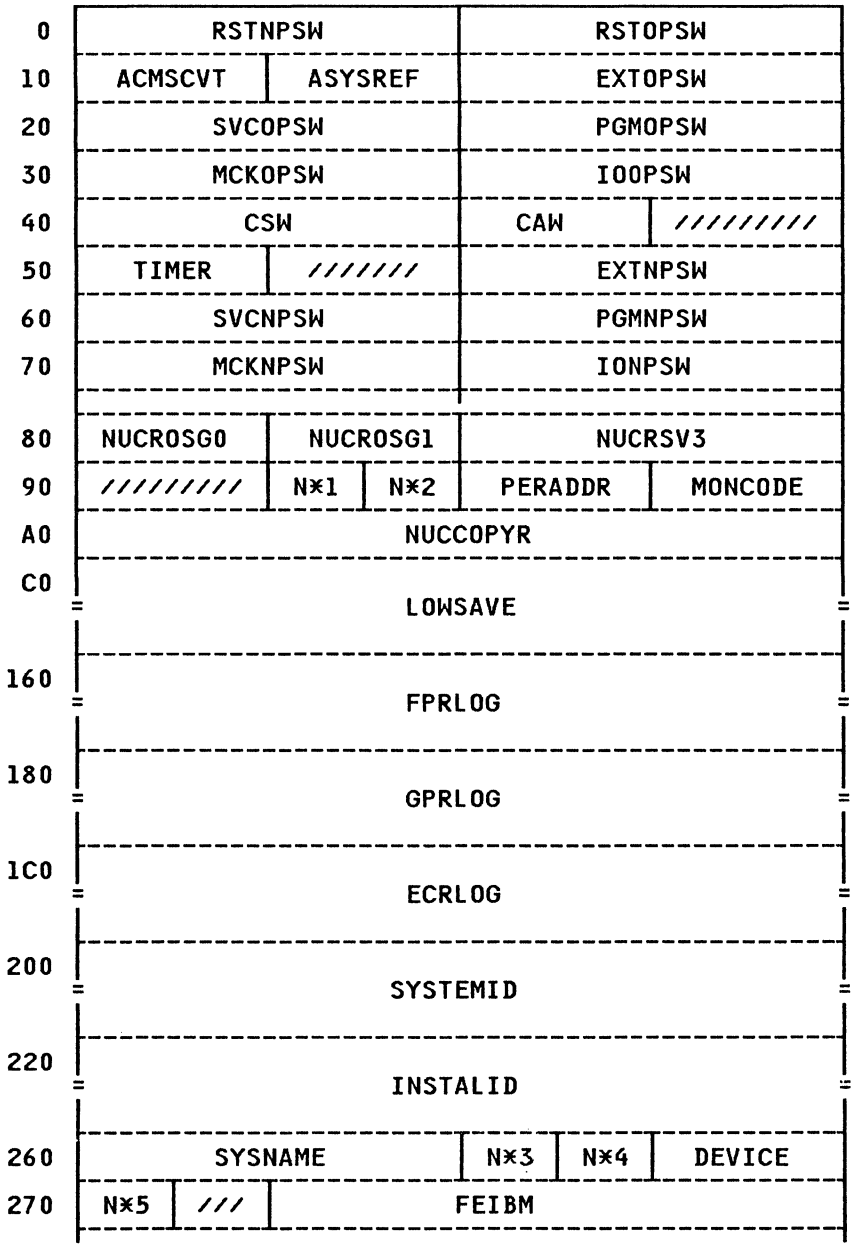
CROSS REFERENCE (Name Disp Value)

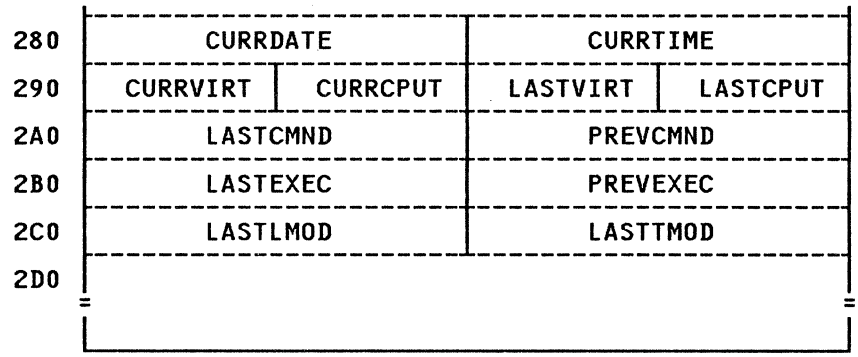
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
LUBJ     01E2 01    LUBP     01E2 00    LUB000   0000 ..    LUB240   01E0 ..
LUBL     .... 02                                           LUB241   01E2 ..
```

NUCON: NUCLEUS CONSTANT AREA

NUCON is the nucleus constant area of CMS. NUCON is invoked via the NUCON macro.





SIZE

SIZE OF NUCON IN DOUBLEWORDS(IN HEXADECIMAL) 378
SIZE OF THE HISTORY BUFFER(NUCHSTDA) IN DOUBLEWORDS(NUCHSTSZ) 1FFE

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IPLPSW	8		INITIAL PROGRAM LOADING PSW
8	IPLCCW1	8		INITIAL PROGRAM LOADING CCW1
10	IPLCCW2	8		INITIAL PROGRAM LOADING CCW2
0	RSTNPSW	8		PSW RESTART NEW PSW
8	RSTOPSW	8		PSW RESTART OLD PSW
10	ACMSCVT	4		ADDRESS OF SIMULATED OS CVT
14	ASYSREF	4		ADDRESS OF NUCLEUS ADDRESS TABLE
18	EXTOPSW	8		EXTERNAL OLD PSW
20	SVCOPSW	8		SUPERVISOR CALL OLD PSW
28	PGMOPSW	8		PROGRAM OLD PSW
30	MCKOPSW	8		MACHINE-CHECK OLD PSW
38	IOOPSW	8		INPUT/OUTPUT OLD PSW
40	CSW	8		CHANNEL STATUS WORD
48	CAW	4		CHANNEL ADDRESS WORD
4C		4		RESERVED
50	TIMER	4		INTERVAL TIMER
54		4		RESERVED
58	EXTNPSW	8		EXTERNAL NEW PSW
60	SVCNPSW	8		SUPERVISOR CALL NEW PSW
68	PGMNPSW	8		PROGRAM NEW PSW
70	MCKNPSW	8		MACHINE-CHECK NEW PSW
78	IONPSW	8		INPUT/OUTPUT NEW PSW

DISP	NAME	LEN	KEY	DESCRIPTION
80	CPULOG	384		CPU LOGOUT AREA
80	NUCROSG0	4		DMSROS SVC18 WORKAREA DWORDS
84	NUCROSG1	4		DMSROS SVC18 WORKAREA ADDRESS
88	NUCRSV3	8		RESERVED FOR FUTURE USE
90		4		RESERVED FOR FUTURE USE
94	MONCLASS	2	N*1	MONITOR CALL CLASS NUMBER
96	PERCODE	2	N*2	PROGRAM EVENT RECORDER CODE
98	PERADDR	4		PROGRAM EVENT RECORDER ADDRESS
9C	MONCODE	4		MONITOR CALL CODE
A0	NUCCOPYR	32		IBM VM/SP 5664-167' CMS COPYRIGHT
C0	LOWSAVE	160		SAVE AREA FOR 1ST 160 BYTES OF STORAGE
160	FPRLOG	32		FLOATING POINT REGISTER LOGOUT AREA
180	GPRLOG	64		GENERAL PURPOSE REGISTER LOGOUT AREA
1C0	ECRLOG	64		EXTENDED CONTROL REGISTER LOGOUT AREA
SYSTEM USAGE				
200	SYSTEMID	32		SYSTEM NAME AND DATE
220	INSTALID	64		INSTALLATION IDENTIFICATION
260	SYSNAME	8		NAME OF IPLED SAVED SYSTEM
268	IPLADDR	2	N*3	ADDRESS OF IPLED DEVICE
26A	SYSADDR	2	N*4	ADDRESS OF SYSTEM DISK
26C	DEVICE	4		NAME OF DEVICE CAUSING LAST I/O INTERRUPT
270	HLPADDR	2	N*5	ADDRESS OF HELP DISK
272		2		RESERVED FOR FUTURE USE
274	FEIBM	12		COMPONENT ID-IPCS REFERENCED
280	DIAGTIME	24		BUFFER FOR DIAGNOSE TIMER
280	CURRDATE	8		CURRENT DATE - MM/DD/YY
288	CURRTIME	8		CURRENT TIME - HH.MM.SS
290	CURRVIRT	4		CURRENT ELAPSED VIRTUAL TIME USED
294	CURRCPUT	4		CURRENT ELAPSED CPU TIME USED
298	LASTVIRT	4		PREVIOUS ELAPSED VIRTUAL TIME USED
29C	LASTCPUT	4		PREVIOUS ELAPSED CPU TIME USED
2A0	LASTCMND	8		LAST COMMAND ISSUED
2A8	PREVCMND	8		NEXT TO LAST COMMAND
2B0	LASTEXEC	8		LAST EXEC PROCEDURE
2B8	PREVEXEC	8		NEXT TO LAST EXEC

DISP	NAME	LEN	KEY	DESCRIPTION
2C0	LASTLMOD	8		LAST MODULE LOADMODED INTO MAIN STORAGE
2C8	LASTTMOD	8		LAST MODULE LOADMODED INTO TRANSIENT AREA
2D0	DATIPCMS	8		DATE (MM/DD/YY) AT LAST IPL CMS
2D8	CLKVALMD	8		TIME (STCK FORM) AT MIDNIGHT (0000 HOURS)
MACRO AND TEXT LIBRARY FIELDS				
2E0		32		RESERVED FOR FUTURE USE
300		72		RESERVED FOR FUTURE USE
348	TXLIBSV	4		LIBE SAVE AREA TXTLIBS
34C	MACLBSV	4		LIBE SAVE AREA MACLIBS
350	TOTLIBS	4		TOTAL GLOBAL CHAINS (BYTES)
354	NUCTLDIR	4		ADDRESS OF TEXT LIBRARY DIRECTORIES
354	TXTDIRC	4		ADDRESS OF TEXT LIBRARY DIRECTORIES
358		72		RESERVED FOR FUTURE USE
DEBUG DUMP PARAMETERS				
3A0	DUMPLIST	0		DEBUG DUMP PARAMETER LIST
3A0	GRS015	4		ADDRESS OF GPR SAVE AREA
3A4	LOC0176	4		ADDRESS OF LOW CORE SAVE AREA
3A8	FIRSTDMP	4		ADDRESS OF FIRST LOCATION TO DUMP
3AC	LASTDMP	4		ADDRESS OF LAST LOCATION TO DUMP
3B0	FRS06	4		ADDRESS OF FPR SAVE AREA
3B4	DMPTIT	4		ADDRESS OF DUMP TITLE LINE
3BC	DMPTITLE	132		DUMP TITLE LINE
440	GLBLTABL	4		RESERVED
444		2		RESERVED FOR ALIGNMENT
446	SVC$202	2		COMMON SVC FOR REENTRANT CODE
448	ERR$202	4		USER WILL FILL IN IF NECESSARY
44C	BR14$202	2		RETURN TO CALLER
44E		2		RESERVED
BATCH MONITOR INFORMATION				

DISP	NAME	LEN	KEY	DESCRIPTION
450	BATFLAGS	1		BATCH FLAGS
	Values Defined in BATFLAGS			
	80 BATRUN			BATCH MONITOR RUNNING
	40 BATLOAD			LOADING BATCH PROCESSOR
	20 BATNOEX			SUPPRESS USER JOB EXECUTION
	10 BATRERR			BATCH READER ERROR
	08 BATCPEX			CP COMMAND EXECUTING
	04 BATUSEX			USER JOB EXECUTING
	02 BATMOVE			MOVEFILE EXECUTING FROM TERMINAL
	01 BATTERM			USER JOB BEING FLUSHED
451	BATFLAG2	1		MORE BATCH FLAGS
	Values Defined in BATFLAG2			
	80 BATXLIM			USER JOB LIMIT EXCEEDED
	40 BATXCPU			CPU TIME EXCEEDED
	20 BATXPRT			NUMBER PRINTED LINES EXCEEDED
	10 BATXPUN			NUMBER PUNCHED CARDS EXCEEDED
	08 BATDCMS			DISABLED CMS COMMAND CALLED
	04 BATIPLSS			BATCH IPLING SAVED SYSTEM
	02 BATSTOP			BATCH STOPPING AFTER CURRENT JOB
	01 BATSYSAB			SYSTEM ABEND IN PROCESS
452	BATFLAG3	1		MORE BATCH FLAGS
	Values Defined in BATFLAG3			
	80 BATCPFNG			CPF LINK FAILURE
	40 BATPRT			LOADVFCB WAS ISSUED
	20 BATCPCH			BATCH CP CHECK FLAG
453	BATFLAG4	1		BATCH VIRTUAL PRINTER TYPE
454	ABATPROC	4		MAIN ENTRY
458	ABATABND	4		USER JOB ABEND ENTRY
45C	ABATLIMT	4		USER JOB LIMITS TABLE
460	AUSERRST	4		VIRTUAL MACHINE RESTART ENTRY POINT
464	NUSERFWD	4		FULLWORD FOR EXCLUSIVE USE OF USER
468		4		RESERVED FOR FUTURE USE
DOS LIBRARY FIELDS				
46C	DOSLBSV	4		LIBE SAVE AREA DOSLIBS
470		32		RESERVED FOR FUTURE USE
490		72		RESERVED FOR FUTURE USE
4D8	DOSFLAGS	1		DOS SIMULATION FLAGS
	Values Defined in DOSFLAGS			
	80 DOSMODE			DOS ENVIRONMENT FLAG
	40 DOSSVC			DOS SVC SIMULATION FLAG
	20 DOSVSAM			DOS VSAM RUNNING FLAG
	10 DOSCOMP			DOS COMPILER RUNNING FLAG
	08 DOSPIO			DOS PRINTER INDICATOR
	04 VSMINSTL			VSAM INSTAL FLAG TO RELOCATE DCSS TABLE
4D9	DOSRC	1		DOS RETURN CODE TO USER

DISP	NAME	LEN	KEY	DESCRIPTION
4DA		2		RESERVED FOR FUTURE USE
4DC	ALTASAVE	4		ADDRESS OF LTA SAVE AREA
4E0	ABGCOM	4		ADDRESS OF PARTITION COMM. REGION
4E4	ASYSCOM	4		ADDRESS OF SYSTEM COMM. REGION
4E8	ADOSDCSS	4		ADDRESS OF DOS DCSS
4EC	SVC12SAV	4		WORK AREA FOR SVC12
4F0	DOSFIRST	4		ADDRESS OF FIRST DOSCB IN CHAIN
4F4	DOSNUM	2		NUMBER DOSCB'S IN CHAIN
4F6	DOSKPART	2		NUMBER K-BYTES IN DOS PARTITION
4F8	APPSAVE	4		ADDRESS OF PROBLEM PROGRAM SAVE AREA
4FC	DOSTRANS	4		ADDRESS OF DOS TRANSIENT AREA
FREE STORAGE POINTERS				
500	MAINLIST	4		ADDRESS OF 1ST BLOCK USER FREE STORAGE
504	MAINSTRT	4		ADDRESS OF THE START OF USER FREE STORAGE
508	FREELIST	4		ADDRESS OF 1ST BLOCK OF SYSTEM STORAGE
50C	FREENUM	4		NUMBER OF BLOCKS OF SYSTEM STORAGE
510	MAINHIGH	4		HIGH EXTEND OF USER FREE STORAGE
514	FREELOWE	4		LOW EXTEND OF SYSTEM FREE STORAGE
518	FREELOWR	4		LOWER LIMIT OF SYSTEM FREE STORAGE
51C	FREEUPPR	4		UPPER LIMIT OF SYSTEM FREE STORAGE
520	ANUCEND	4		ADDRESS OF END OF NUCLEUS STORAGE AREA
524	AUSRAREA	4		ADDRESS OF BEGINNING OF USER AREA
528	CURRSAVE	4		ADDRESS OF CURRENT SAVE AREA
52C	CODE203	2		CODE NUMBER OF LAST SVC 203
52E	FRERESPG	2		AMOUNT OF USER STORAGE TO RESERVE FOR CMS FREE STORAGE (PAGES: >=2)
530	ADMSFRT	4		DMSFRE WORK AREA
V-CONSTANTS FOR CALLING "ADTLKP/ADTNXT/ADTLKW" VIA BALR CALLS				
534	VCADTLKP	4		BALR EQUIVALENT OF "ADTLKP"
538	VCADTNXT	4		BALR EQUIVALENT OF "ADTNXT"
53C	VCADTLKW	4		BALR EQUIVALENT OF "ADTLKW"
CONSTANT I/O POINTERS				
540	CURRIOOP	4		ADDRESS OF CURRENT I/O BUFFER
544	PENDREAD	4		ADDRESS OF PENDING READ OPERATION
548	PENDWRIT	4		ADDRESS OF PENDING WRITE OPERATION

DISP	NAME	LEN	KEY	DESCRIPTION
54C	FSTFINRD	4		ADDRESS OF FINISHED READ BUFFER
550	LSTFINRD	4		ADDRESS OF LAST FINISHED READ BUFFER
554	AINTRTBL	4		ADDRESS OF USER INPUT TRANSLATE TABLE
558	AOUTRTBL	4		ADDRESS OF USER OUTPUT TRANSLATE TABLE
55C	NUMFINRD	2		NUMBER OF FINISHED READ BUFFERS
55E	NUMPNDWR	2		NUMBER OF PENDING WRITE OPERATIONS
LOADER INFORMATION				
560	VMSIZE	4		VIRTUAL MEMORY SIZE
564	ALDRTBLS	4		ADDRESS OF LOADER TABLES
568	STRTADDR	4		MODULE STARTING ADDRESS
56C	FRSTLOC	4		MODULE BEGINNING ADDRESS
570	LASTLOC	4		MODULE ENDING ADDRESS
574	LOCCNT	4		LOADER LOCATION COUNTER
578	LDRADDR	4		LOADER RETURN ADDRESS
57C	LDRRTCD	4		LOADER RETURN CODE
580	PSW	8		USER'S STARTING PSW
588	LDRFLAGS	4		LOADER FLAGS
58C	PRHOLD	4		PSEUDO REGISTER COUNTER
590	TBENT	2		INITIALIZE TABLE ENTRIES TO ZEROES
592	UNRES	1		
593	MODFLGS	1		MOD FLAGS

Values Defined in MODFLGS

80	NOMAPFLG	NOMAP FLAG
40	CLEAROP	CLEAR OPTION FLAG
20	MODGNDOS	MODULE GENERATED WITH DOS OPTION
10	MODGNALL	MODULE GENERATED WITH ALL OPTION
08	SYSLOAD	ALLOW LOAD >FREELOWE OR <TRANS
04	MDPCALL	INDICATE CALL FROM DMSMDP
02	LOADINCL	LOAD, INCLUDE 1=LOAD 0=INCLUDE
01	MOD7	RESERVED FOR FUTURE USE

594	GET1	4		DMSLSY R1 SAVE LOC
598	DSYM	8		DMSLSY WORK SPACE
5A0	JSYM	4		DMSLSY UNIQUE SYMBOL BASE
5A4	NXTSYM	1		1ST CHARACTER OF UNIQUE SYMBOL
5A5		7		REST OF UNIQUE SYMBOL
5AC	ALIASENT	4		ALIAS ENTRY POINT (DYNAMIC LOAD)
5B0	DYNAEND	4		MAXIMUM LOAD LOC (DYNAMIC LOAD)
OS SIMULATION POINTERS				

DISP	NAME	LEN	KEY	DESCRIPTION
5B4		4		RESERVED
5B8	LABFIRST	4		ADDRESS OF FIRST LABSECT
5BC	LABNUM	2		NUMBER OF LABSECT'S
5BE	NUCSIMFG	1		OS SIMULATION FLAGS

Values Defined in NUCSIMFG

80	NUCROS80	SVC 18 STORAGE OBTAINED FROM DMSR
40	NUCSRS2	RESERVED SIM FLAG
20	NUCSRS3	RESERVED SIM FLAG
10	NUCSRS4	RESERVED SIM FLAG
08	NUCSRS5	RESERVED SIM FLAG
04	NUCSRS6	RESERVED SIM FLAG
02	NUCSRS7	RESERVED SIM FLAG
01	NUCSRS8	RESERVED SIM FLAG

5BF		1		RESERVED FOR FUTURE USE
5C0	FCBTAB	0		FCB CHAIN ANCHOR
5C0	FCBFIRST	4		ADDRESS OF FIRST FCB
5C4	FCBNUM	2		NUMBER OF FCB'S IN CHAIN
5C6		1		RESERVED FOR WPL
5C7	OSSFLAGS	1		OS SIMULATION FLAGS

Values Defined in OSSFLAGS

80	COMPSWT	COMPILER SWITCH
40	OSSMNU	DMSSMN UNCONDITIONAL FLAG
20	OSRESET	
10	OSWAIT	
08	DYLD	DYNAMIC LOADING IN PROCESS
04	DYLIBO	OMIT DYNAMIC LIBRARY SCAN
02	DYLIBNOW	DYNAMIC LIBRARY SCAN
01	DYMBRNM	LINKED VIA MEMBER NAME

5C8	ATLBMODL	4		ADDRESS OF TAPE LABEL PROCESSOR
5CC	LINKLAST	4		ADDRESS OF LAST OS LINKAGE BLOCK
5D0	LINKSTRT	4		ADDRESS OF ENTRY POINT OF LAST MODULE
5D4	TAXEADDR	4		TERMINAL ATTENTION EXIT ELEMENT ADDRESS
5D8	ATSOCPPL	4		ADDRESS OF TEMPORARY PLIST FOR TSO PROGRAMS
5DC	DCBSAV	4		DCB RESTORATION ADDRESS

SWITCHES

5E0	OPTFLAGS	1		OPTION FLAGS

Values Defined in OPTFLAGS

80	NOIMPEX	NO IMPLIED EXEC COMMANDS
40	NOIMPCP	NO IMPLIED CP COMMANDS
20	NOSTDSYN	NO STANDARD SYNONYMS
10	NOABBREV	NO COMMAND ABBREVIATIONS
08	NOPAGREL	NO AUTOMATIC PAGE RELEASE
04	NOVMREAD	NO AUTOMATIC VM CONSOLE READ
01	RDTDRCT	CONSOLE READ TYPE=DIRECT

DISP	NAME	LEN	KEY	DESCRIPTION
5E1	MISFLAGS	1		MISCELLANEOUS FLAGS

Values Defined in MISFLAGS

80	KXSWITCH	KILL EXECUTION SWITCH
40	KOSWITCH	KILL TRACING SWITCH
20	RELPAGES	RELEASE PAGES SWITCH
10	GRAFDEV	GRAPHICS CONSOLE
08	QSWITCH	QUIET SW FOR CRD
04	NODDSK	DON'T ACCESS D DISK..
02	NEGITS	NEGATIVE RETURN CODE FROM DMSITS
01	ATTNHIT	ATTENTION POSTED

DISP	NAME	LEN	KEY	DESCRIPTION
5E2	MSGFLAGS	1		MESSAGE FLAGS

Values Defined in MSGFLAGS

80	NOTYPOUT	NO TYPING - SET BY EXEC
40	NOTYPING	NO TYPING - SET BY KT
20	NORDYMSG	NO READY MESSAGE TO BE TYPED
10	NORDYTIM	NO TIME ON READY MESSAGE
08	REDERRID	ERROR CODE TO BE TYPED IN RED
04	NOERRMSG	NO ERROR MESSAGES TO BE TYPED
02	NOERRTXT	NO TEXT ON ERROR MESSAGES
01	SPECLF	LINEFEED FOR TYPEWRITER CCW

DISP	NAME	LEN	KEY	DESCRIPTION
5E3	DBGFLAGS	1		DEBUG FLAGS

Values Defined in DBGFLAGS

80	DBGEXEC	DEBUG EXECUTING
40	DBGPGMCK	DEBUG ENTERED BY A PROGRAM CHECK
20	DBGEXINT	DEGUB ENTERED BY AN EXTERNAL INTERRUPT
10	DBGABN	DEBUG ENTERED FROM DMSABN
08	DBGNSHR	NO SHARED-SEGMENT PRESENT
04	DBGSHR	SHARED-SEGMENT PRESENT
02	DBGRECUR	RECURSION FLAG
01	ABNXTSW	USER ABEND EXIT TAKEN SWITCH

DISP	NAME	LEN	KEY	DESCRIPTION
5E4	MISFLAG2	1		MISCELLANEOUS FLAGS - BYTE 2

Values Defined in MISFLAG2

80	EXRESET	OSRESET WANTED-- 0=YES 1=NO
40	OSTYPLD	OS TYPE LOAD-- 0=NON-OS TYPE LOAD 1=OS TYPE LOAD
20	DONTHASH	DON'T INVOKE R/W DISK HASHING
10	NUCTNABL	TOD CLOCK ACCOUNTING ENABLED
08	NUCCPCMD	DMSINT CHECK FOR CP COMMAND
04	NUCLKED	LKED COMMAND ISSUED
02	NUC4KKEY	4K-BYTE BLOCK FACILITY INDICATOR
01	NUCVECTR	VECTOR FACILITY IN USE - 1=YES

DISP	NAME	LEN	KEY	DESCRIPTION
5E5	NUCFLAG3	1		MISCELLANEOUS FLAG - BYTE 3

Values Defined in NUCFLAG3

80	NUCPENDW	PENDING WRITE, UPDATE CMS WINDOW
40	NUCEXEC	DMSINT CHECK FOR IMPLIED EXEC

DISP	NAME	LEN	KEY	DESCRIPTION
5E6	EXECFLAG	1		EXEC FLAGS
	Values Defined in EXECFLAG			
	80 EXECRUN			EXEC COMMAND RUNNING
	40 EXECSTOP			HALT INTERPRETER HAS BEEN RECOGNIZED
	20 EXECMASK			HALT INTERPRETER ENABLED
	10 EXECHALT			HALT INTERPRETER HAS BEEN ISSUED
	08 EXECTRST			TRACE CAN BE RESET BY XEDIT
	04 NUCEXSST			EXEC SEGMENT STATUS - 0=OFF 1=ON
	02 EXECTMSK			TRACE START ENABLED
	01 EXECTRAC			EXEC TRACE REQUESTED
5E7	PROTFLAG	1		STORAGE PROTECTION FLAGS
	Values Defined in PROTFLAG			
	80 PRFPOFF			STORAGE PROTECTION IS SHUT OFF
	40 PRFTSYS			SYSTEM ROUTINE IN TRANSIENT AREA
	20 PRFUSYS			SYSTEM ROUTINE IN USER AREA
5E8	TSOFLAGS	1		TSO FLAG BYTE
	Values Defined in TSOFLAGS			
	80 TSOATCNL			READ CANCELED BY ATTENTION
5E9	SUBFLAG	1		CMS SUBSET FLAG-BYTE
	Values Defined in SUBFLAG			
	08 SUBREJ			SUBSET COMMAND REJECT
	04 SUBRTN			SUBSET-RETURN
	02 SUBINIT			SUBSET INITIALIZATION
	01 SUBACT			SUBSET ACTIVE
5EA		1		RESERVED
5EB		1		RESERVED
5EC	ASYSNAMS	4		
5F0	NUCLANGA	4		LANGBLK ANCHOR
5F4	ADMSLIO	4		
V-CONSTANTS FOR CALLING "FSTLKP/FSTLKW" VIA BALR CALLS				
5F8	VCFSTLKP	4		BALR EQUIVALENT OF "FSTLKP"
5FC	VCFSTLKW	4		BALR EQUIVALENT OF "FSTLKW"
NUCLEUS ADDRESS TABLE				
600	SYSREF	0		
600	AFVS	4		
604	AOPSECT	4		
608	ADEVTAB	4		
60C	AFSTLKP	4		
610	AGETCLK	4		
614	AFSTLKW	4		
618	APIE			

DISP	NAME	LEN	KEY	DESCRIPTION
61C	AIADT	4		
620	AUSER	4		
624	ARDTK	4		
628	ASCANN	4		
62C	ASSTAT	4		
630	ATABEND	4		
634	ASUBSECT	4		
638	ADMSSVT	4		ADDRESS OF DMSSVT
63C	AWRTK	4		
640	ASTRINIT	4		
644	IADT	4		ADDRESS OF START OF THE ADT
648	AFREE	4		
64C	AFRET	4		
650	ADMSPIOC	4		
654	APGMSECT	4		
658	AIOSECT	4		
65C	ADMPEXEC	4		
660	ADIOSECT	4		ADDRESS OF START OF DIOSECT
664	AABNSVC	4		
668	ADMSERL	4		
66C	ADMSCRD	4		
670	ADMSFREB	4		
674	ASVCSECT	4		
678	AADTLKP	4		
67C	AUPUFD	4		
680	ASTATEXT	4		
684	AOSRET	4		OS SVC ROUTINE RETURN ADDRESS
688	ACMSRET	4		CMS SVC ROUTINE RETURN ADDRESS
68C	ASCANO	4		
690	AEXEC	4		
694	ASTART	4		
698	AADTLKW	4		
69C	AUSABRV	4		
6A0	AEXTSECT	4		
6A4	ASCBPTR	4		

DISP	NAME	LEN	KEY	DESCRIPTION
6A8	ADMSROS	4		
6AC		4		RESERVED FOR FUTURE USE
6B0	AACTLKP	4		
6B4	AACTNXT	4		
6B8	AACTFREE	4		
6BC	AACTFRET	4		
6C0	AADTNXT	4		
6C4	ATRKLKP	4		
6C8	ATRKLKPX	4		
6CC	AQQTRK	4		
6D0	AQQTRKX	4		
6D4	AERASE	4		
6D8	ATYPSRCH	4		
6DC	AUPDISK	4		
6E0	AKILLEX	4		
6E4	ATFINIS	4		
6E8	ARDBUF	4		
6EC	AWRBUF	4		
6F0	AFINIS	4		
6F4	ASTATE	4		
6F8	ASTATEW	4		
6FC	APOINT	4		
TERMINAL BUFFERS				
700		12		RESERVED - CONCCWS MOVED TO OPSECT
70C	ATEMPLIN	4		
710		48		RESERVED TO MAINTAIN DISPLACEMENT
740	CMNDLINE	255		
840	CMNDEXEC	8		
848	CMNDLIST	536		
A60	CONSTACK	320		
SAVE AREAS				
BA0	FREESAVE	64		
BE0	BALRSAVE	64		

DISP	NAME	LEN	KEY	DESCRIPTION
C20	WAITSAVE	64		
PERCENT OF AVAILABLE USER STORAGE TO RESERVE FOR GETVIS/FREEVIS USE WHEN RUNNING VSAM				
C60	PCTVSAM	2		50 PERCENT FOR CMS/VSAM USE
C62		2		RESERVED
C64		4		RESERVED
BEGINNING AND END OF "IKQLAB" (WHEN IN STORAGE)				
C68	ADIKQLAB	4		SET TO A(IKQLAB) WHEN IT IS IN STORAGE
C6C	NDIKQLAB	4		SET TO END OF IKQLAB WHEN IN STORAGE
C70	ALOKTB	4		LOCK/UNLOCK RESOURCE TABLE
C74	ADMSVIB	4		ADDRESS OF VSAM INTERFACE BOOTSTRAP
C78	AVIPWORK	4		ADDRESS OF DMSVIP WORK AREA
C7C	VSAMFLG1	1		VSAM INFORMATION FLAG
Values Defined in VSAMFLG1				
80	VSAMRUN			VSAM SYSTEM LOADED
40	VSJOBCAT			VSAM JOB CATALOG ACTIVE
20	VIPINIT			DMSVIP HAS BEEN INITIALIZED
10	VSAMSERV			CMS/AMS SYSTEM LOADED (AMSERV RUNNING)
08	VIPSOP			OS INTERFACE SVC 2 CALL
04	VIPTCLOS			OS 'TCLOSE' CALL
02	VSAMSOS			OS AMSERV RUNNING
C7D		3		RESERVED
C80	AVSAMSYS	4		ADDRESS OF VSAM SAVED SYSTEM
C84	AAMSSYS	4		ADDRESS OF CMSAMS SAVED SYSTEM
C88	AVSREOJ	4		DMSVSR ENTRY POINT FROM VSAM $$BACLOS
C8C	AVSRWORK	4		ADDRESS OF DMSVSR WORK AREA
C90	ACBLIST	4		ACB LIST BUILT BY OPEN/CLOSE
C94		4		RESERVED
C98	AABWSECT	4		POINTER FOR IPCS
C9C	ADMSZIT	4		POINTER FOR IPCS
SECONDARY ADDRESS TABLE				
CA0	ADMSTRKA	4		EDF DISK BLOCK ALLOCATE
CA4	ADMSTRKM	4		EDF DISK BLOCK MARKFUNCTION
CA8	ADMSTRKD	4		EDF DISK BLOCK DEALLOCATE
CAC	ADMSALU	4		ADDRESS OF RELEASE SUBROUTINE
CB0	ASORTFST	4		ADDRESS OF SORT FST SUBROUTINE
CB4	ADEVSUP	4		CP TO OS DEVICE TYPE CONV TABLE
CB8	ADEVIND	4		DEVICE CONST TABLE INDEX

DISP	NAME	LEN	KEY	DESCRIPTION
CBC	ATBLIND	4		DEVICE CONSTANTS TABLE
CC0	ABLKIND	4		DEVICE BLKSIZE INDEX
CC4	ALABELRD	4		ADDRESS OF LABEL READ ROUTINE
CC8	ALABELWR	4		ADDRESS OF LABEL WRITE ROUTINE
CCC	ADMSLADN	4		LOCATE/ADD REQUESTED ADT
CD0	ADMSBLKR	4		EDF BLOCK READ ROUTINE
CD4	ADMSBLKW	4		EDF BLOCK WRITE ROUTINE
CD8	AABBREV	4		ABBREVIATION RESOLVER IN DMSINA
CDC	ADEVSUP2	4		DEVICE SUPPORT TABLE FOR FBA
CE0	AESTATE	4		EXTENDED PLIST STATE
CE4	AESTATEW	4		EXTENDED PLIST STATE FOR R/W
CE8	AEPOINT	4		EXTENDED PLIST POINT
CEC	ATRUNC	4		FILE TRUNCATE FUNCTION
CF0	ABAMSYS	4		POINTER TO CMSBAM DCSS
CF4	NUCSCBLK	4		SCBLOCK CHAIN ANCHOR
CF8	BAMFLAGS	1		CMSBAM SHARED SEGMENT FLAGS
	Values Defined in BAMFLAGS			
	80 DOSBAM			FB-512 SUPPORT AVAILABLE
CF9	NUCOSFLG	1		OS LOADER SUPPORT FLAG
	Values Defined in NUCOSFLG			
	80 NUCOSRUN			OSRUN COMMAND ISSUED
	40 NUCSYSDF			$SYSLIB DEFINED BY LDR SUPRT
	20 NUCGLOBL			GLOBAL DONE BY OSRUN
	10 NUCOSRLD			MEMBER LOADED FOR OSRUN
CFA	NUCRSVB2	2		RESERVED
CFC	AHASHMNT	4		ADDRESS OF HASH TABLE MAINT ROUTINE
D00	NUCASTP	4		ADDRESS OF DMSSTP
D04	ASSTATX	4		ADDRESS OF SHARED COPY OF SSTAT
D08	ASSTATZ	4		ADDRESS OF DUMMY 2ND SSTAT HBLK
D0C	AYSTATX	4		ADDRESS OF SHARED COPY OF YSTAT
D10	AYSTATZ	4		ADDRESS OF DUMMY 2ND YSTAT HBLK
D14	ADMSIOW	4		DMSIOW
D18	ADBGSECT	4		DEBUG WORK AREA
D1C	ADMSABW	4		ABEND WORK AREA
D20	ADMSERR	4		DMSERR
D24	ADMSCWT	4		DMSCWT

DISP	NAME	LEN	KEY	DESCRIPTION
D28	ADMSCWR	4		DMSCWR
D2C	ADMSIOWR	4		DMSIOWR
D30	ADMSITI	4		DMSITI
D34	ADMSABN	4		DMSABN
D38	AABNGO	4		DMSABNGO
D3C	ALADAD	4		DMSLADAD
D40	ACITDB	4		DMSCITDB
D44	ADMSITSR	4		DMSITSR
D48	ADMSFRES	4		DMSFRES
D4C	ASTGSB	4		DMSSTGSB
D50	AINTAB	4		DMSINTAB
D54	ADMSCAT	4		DMSCAT
D58	ADMSCPF	4		DMSCPF
D5C	AEXCAB	4		ADDRESS OF EXEC ABEND RTN
D60	NUCFSTLN	4		FIRST LINE IN PROGRAM STACK
D64	NUCLSTLN	4		LAST LINE IN PROGRAM STACK
D68	NUCNLSTK	4		NUMBER OF LINES IN PROGRAM STACK
D6C	NUCNBSTK	4		NUMBER OF PROGRAM STACK
D70	NUCTIEIN	8		LISTING TIEIN FIELD
D78	NUCAFCHS	4		ADDRESS OF OS FETCH WORK AREA
D7C	NUCCBLKS	4		POINTER TO MODS LOADED BY DMSLOS
D80		72		RESERVED FOR FUTURE USE
DC8	NUCLODSV	4		SAVE AREA FOR LOADLIB TOTALS
DCC	NUCWRKBK	4		ADDRESS OF WRKBK CHAIN
DD0		12		RESERVED FOR FUTURE USE
DDC	NUCSVQOF	4		ADDRESS OF DMSSVQOF
DE0	NUCCWA	4		POINTER TO PREALLOCATED STORAGE FOR REENTRANT ROUTINES
DE4	NUCNASF	4		NEXT AVAILABLE LOCATION IN BLOCK POINTED TO BY NUCCCWA
DE8	NUCEOWA	4		BYTE AFTER BLOCK POINTED TO BY NUCCWA
DEC	NUCAPIO	4		DMSPIO ROUTINE
DF0	ATCBPTR	4		DOS TCB ADDRESS
DF4	AGAMSEG	4		GAM/SP ANCHOR BLOCK ADDRESS
DF8	NUCALPHA	4		ADDRESS(START OF CMS NUCLEUS CODE)
DFC	NUCSIGMA	4		ADDRESS(START OF NUCLEUS SHARED STOR)

DISP	NAME	LEN	KEY	DESCRIPTION
E00	NUCOMEGA	4		ADDRESS(END OF CMS NUCLEUS CODE)
E04	NUCNLTRT	4		ADDRESS OF NATIONAL LANG TRTBL
E08	NUCPLIST	0		UNTOKENIZED PLIST
E08	NUCPLCMD	4		ADDRESS OF COMMAND TOKEN
E0C	NUCPLBEG	4		ADDRESS OF START OF ARG STRING
E10	NUCPLEND	4		ADDRESS OF END OF ARG STRING
E14	NUCPLFID	4		ADDRESS OF FN FT FM IDENTIFIER
E14	NUCPLSWT	1		1-BYTE SWITCH USED IN DMSSCN
E18	NUCHSHTB	4		ADDRESS OF DMSHTB ROUTINE
E1C	NUCPATHF	4		ANCHOR FOR CONSOLE PATH TABLE
E20	NUCDEVF	4		ANCHOR FOR CONSOLE DEVICE TABLE
E24	NUCSMBLK	4		WINDOWING MASTER CONTROL BLOCK
E28	NUCSZABV	4		SIZE OF AREA ABOVE NUCLEUS FRETED
E2C	NUCADFNC	4		DMSFNC ADDRESS
E30	NUCLDR0S	4		SAVE R0 IN DMSLDR (NEW FORM PL)
E34	NUCUPPER	4		UPPERCASE TRANSLATE TABLE
E38	NUCERT	4		DMSERT WORK AREA ADDRESS
E3C	NUCXCBLK	4		ANCHOR FOR NUCLEUS
E40	NUCXFRES	4		CUMULATIVE AMOUNT OF TYPE=NUCLEUS FREE STORAGE THAT WILL BE RETAINED BY NUCLEUS EXTENSIONS THROUGH AN ABEND. THIS DOES NOT INCLUDE STORAGE ACCOUNTED FOR IN SCBLOKS IN THE NUCXCBLK CHAIN. THIS FIELD IS USED BY DMSABN WHEN PERFORMING ABEND RECOVERY.
E44	NUCXCBEE	4		SCBLOCK FREE LIST ANCHOR
E48	NUCUSER1	4		FW FOR EXCLUSIVE USE OF USERS
E4C	NUCUSER2	4		FW FOR EXCLUSIVE USE OF USERS
E50	NUCUSER3	4		FW FOR EXCLUSIVE USE OF USERS
E54	NUCUSER4	4		FW FOR EXCLUSIVE USE OF USERS
E58	USERLVL	4		RESERVED FOR USER. CONTENTS ARE RETURNED IN R0 BY THE'QUERY CMSLEVEL' COMMAND. (SEE 'CMSLEVEL')
E5C	CMSLVL	1		RESERVED
E5D	CMSPROG	1		UNIQUE PROGRAM PRODUCT ID
E5E	CMSSERV	2		CMS SERVICE LEVEL IN BINARY
E60	ACMSLVLM	4		ACMSLVLM IS RESERVED FOR IBM USE ONLY. IT CONTAINS A POINTER TO THE MESSAGE QUERY CMSLEVEL ISSUES.
E64	AIUCVTAB	4		ADDRESS OF IUCV TABLE
E68	NUCXEND	4		COUNTER OF END-OF-COMMAND NUCLEUS EXTENTIONS

DISP	NAME	LEN	KEY	DESCRIPTION
E6C	ABNXTPTR	4		ABEND EXIT ANCHOR
E70	ADMSABXR	4		ABNEXIT RESET ENTRY
E74	AIMMTABL	4		ADDRESS OF IMMEDIATE COMMAND WORK AREA
E78	IMESCAPE	2		IMMEDIATE COMMAND ESCAPE CHARACTER INFORMATION
	Bits defined in first byte of IMESCAPE			
	80 IMACTIVE			IMMEDIATE COMMAND ESCAPE CHARACTER ACTIVE
	The following references the second byte of IMESCAPE.			
E79	IMCHAR	1		IMMEDIATE COMMAND ESCAPE CHARACTER
E7A	NUCEXSMD	1		EXEC SEGMENT ACCESS MODE
E7B		1		RESERVED FOR FUTURE USE
E7C	SVCWKADR	4		ADDRESS OF DMSDOS SVC WORK AREA
E80	ADMSCSF	4		ADDRESS OF COMMAND SEARCH FUNCTION
E84	NUCEXIS	4		EXECS IN STORAGE CHAIN ANCHOR
E88	RLDDATA	4		ADDRESS OF THE BUFFER THAT IS USED TO SAVE RLD INFO FROM THE LOAD/GENMOD PROCESS
E8C	RLDPOINT	4		POINTER TO CURRENT ITEM IN RLDDATA BUFFER
E90	ADMSEXQ	4		BALR ENTRY POINT FOR DMSEXQ
E94	MISCECB	4		MISC. USE ECB
E98	NUCTODCA	16		TOD CLOCK ACCOUNTING AREA
EA8	NUCLANGC	5		CURRENT LANGUAGE
EAD	NUCNLLID	1		NATIONAL LANGUAGE LEVEL ID
EAE		2		RESERVED FOR FUTURE USE
EB0	NUCLANGD	4		DEFAULT LANGUAGE LANGBLK POINTER
EB4	NUCEXSAD	4		START ADDRESS OF EXEC SEGMENT
	FIELDS USED BY THE GLOBAL COMMAND TO MAINTAIN LIBRARY LISTS FOR MACLIBS, LOADLIBS, DOSLIBS AND TXTLIBS.			
	THE FOLLOWING FIELDS POINT TO THE NAME LISTS USED BY GLOBAL.			
EB8	NUCMLNAM	4		MACLIB NAME LIST ADDRESS
EBC	NUCLLNAM	4		LOADLIB NAME LIST ADDRESS
EC0	NUCDLNAM	4		DOSLIB NAME LIST ADDRESS
EC4	NUCTLNAM	4		TXTLIB NAME LIST ADDRESS
	THE FOLLOWING FIELDS POINT TO THE LISTS OF DIRECTORY POINTERS USED BY GLOBAL.			
EC8	NUCMLDIR	4		MACLIB DIRECTORY LIST ADDRESS

DISP	NAME	LEN	KEY	DESCRIPTION
ECC	NUCLLDIR	4		LOADLIB DIRECTORY LIST ADDRESS
ED0	NUCDLDIR	4		DOSLIB DIRECTORY LIST ADDRESS
ED4		4		RESERVED FOR FUTURE USE
	THE FOLLOWING FIELDS CONTAIN THE SIZE(IN DOUBLEWORDS) OF THE FREE AREAS OBTAINED BY GLOBAL TO KEEP THE NAME LISTS AND THE DIRECTORY POINTER LISTS.			
ED8	NUCMLSIZ	4		MACLIB FREE STORAGE SIZE
EDC	NUCLLSIZ	4		LOADLIB FREE STORAGE SIZE
EE0	NUCDLSIZ	4		DOSLIB FREE STORAGE SIZE
EE4	NUCTLSIZ	4		TXTLIB FREE STORAGE SIZE
	THE FOLLOWING FIELDS CONTAIN THE NUMBER OF GLOBALED LIBRARIES.			
EE8	NUCMLNUM	2		NUMBER OF GLOBALED MACLIBS
EEA	NUCLLNUM	2		NUMBER OF GLOBALED LOADLIBS
EEC	NUCDLNUM	2		NUMBER OF GLOBALED DOSLIBS
EEE	NUCTLNUM	2		NUMBER OF GLOBALED TXTLIBS
	FIELDS FOR PRESERVING THE HISTORY INFORMATION FROM THE LOAD/INCLUDE GENMOD PROCESS			
EF0	NUCHSTDA	4		ADDRESS OF THE BUFFER THAT IS USED TO SAVE HISTORY INFORMATION FROM THE LOAD/INCLUDE/GENMOD PROCESS.
EF4	NUCHSTPO	4		POINTER TO THE NEXT AVAILABLE SPACE IN THE HISTORY BUFFER(NUCHSTDA).
EF8	NUCLANSS	4		CURRENT LANGUAGE DCSS ADDRESS
THE FOLLOWING FIELD IS	USED FOR INTERNAL QUEUE MANAGEMENT.			
EFC	NUCSCRQA	4		ANCHOR FOR QMGR QBLK CHAIN.
THE FOLLOWING FIELDS ARE USED FOR INTERNAL STORAGE POOLS.				
F00	NUCSMSTA	4		ANCHOR FOR STORAGE POOL 'A'
F04	NUCSMSTB	4		ANCHOR FOR STORAGE POOL 'B'
F08	NUCSMSTC	4		ANCHOR FOR STORAGE POOL 'C'
	V-CONS FOR FULLSCREEN CMS ATTN-HIT & WRITE-PENDING ROUTINES.			
F0C	NUCWEXWR	4		DMSWEXWR - FULLSCREEN REFRESH
F10	NUCWEXRD	4		DMSWEXRD - FULLSCREEN ATTN
F14	NUCAPAR	4		ADDRESS OF COMMAND PARSER
F18	NUCCIOBF	4		ADDR OF I/O BUFFER FOR DMSCIO
F1C	NUCASTTV	4		ADDR OF VALIDATE ROUTINE
F20	NUCAXADT	4		ADDR OF ADT INDEX

DISP	NAME	LEN	KEY	DESCRIPTION
F24	NUCALADR	4		ADDR OF ADT RELEASE ROUTINE
F28	NUCGETHI	4		HIGHEST VALUE OF MAINHIGH
F2C	NUCPAGWK	4		ADDR OF DMSPAG WORK AREA
F30	NUCCSFFN	4		HIGH-ORDER BYTE INDICATOR & FILE NAME ADDRESS
F34	NUCADIE	4		ADDRESS OF DMSDIE
F38	NUCINSTS	8		INSTALLATION SEGMENT NAME

THESE VALUES ARE USED TO RECONCILE SYSTEM STORAGE DURING ABEND RECOVERY.

F40	NUCSMPST	4		STORAGE POOL STORAGE ALLOCATED
F44	NUCSMQST	4		PENDING MESSAGES ENQUEUED
F48	ADMSCACH	4		CACHE OF FREE ELEMENTS WORK AREA

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

AABBREV	0CD8 ..	ADMSCACH	0F48 ..	AGAMSEG	0DF4 ..	ASTATEXT	0680 ..
AABNGO	0D38 ..	ADMSCAT	0D54 ..	AGETCLK	0610 ..	ASTGSB	0D4C ..
AABNSVC	0664 ..	ADMSCPF	0D58 ..	AHASHMNT	0CFC ..	ASTRINIT	0640 ..
AABWSECT	0C98 ..	ADMSCRD	066C ..	AIADT	061C ..	ASUBSECT	0634 ..
AACTFREE	06B8 ..	ADMSCSF	0E80 ..	AIMMTABL	0E74 ..	ASVCSECT	0674 ..
AACTFRET	06BC ..	ADMSCWR	0D28 ..	AINTAB	0D50 ..	ASYSCOM	04E4 ..
AACTLKP	06B0 ..	ADMSCWT	0D24 ..	AINTRTBL	0554 ..	ASYSNAMS	05EC ..
AACTNXT	06B4 ..	ADMSERL	0668 ..	AIOSECT	0658 ..	ASYSREF	0014 ..
AADTLKP	0678 ..	ADMSERR	0D20 ..	AIUCVTAB	0E64 ..	ATABEND	0630 ..
AADTLKW	0698 ..	ADMSEXQ	0E90 ..	AKILLEX	06E0 ..	ATBLIND	0CBC ..
AADTNXT	06C0 ..	ADMSFREB	0670 ..	ALABELRD	0CC4 ..	ATCBPTR	0DF0 ..
AAMSSYS	0C84 ..	ADMSFRES	0D48 ..	ALABELWR	0CC8 ..	ATEMPLIN	070C ..
ABAMSYS	0CF0 ..	ADMSFRT	0530 ..	ALADAD	0D3C ..	ATFINIS	06E4 ..
ABATABND	0458 ..	ADMSIOW	0D14 ..	ALDRTBLS	0564 ..	ATLBMODL	05C8 ..
ABATLIMT	045C ..	ADMSIOWR	0D2C ..	ALIASENT	05AC ..	ATRKLKP	06C4 ..
ABATPROC	0454 ..	ADMSITI	0D30 ..	ALOKTB	0C70 ..	ATRKLKPX	06C8 ..
ABGCOM	04E0 ..	ADMSITSR	0D44 ..	ALTASAVE	04DC ..	ATRUNC	0CEC ..
ABLKIND	0CC0 ..	ADMSLADN	0CCC ..	ANUCEND	0520 ..	ATSOCPPL	05D8 ..
ABNXTPTR	0E6C ..	ADMSLIO	05F4 ..	AOPSECT	0604 ..	ATTNHIT	05E1 01
ABNXTSW	05E3 01	ADMSPIOC	0650 ..	AOSMODL	0638 ..	ATYPSRCH	06D8 ..
ACBLIST	0C90 ..	ADMSROS	06A8 ..	AOSRET	0684 ..	AUPDISK	06DC ..
ACITDB	0D40 ..	ADMSTRKA	0CA0 ..	AOUTRTBL	0558 ..	AUPUFD	067C ..
ACMSCVT	0010 ..	ADMSTRKD	0CA8 ..	APGMSECT	0654 ..	AUSABRV	069C ..
ACMSLVLM	0E60 ..	ADMSTRKM	0CA4 ..	APIE	0618 ..	AUSER	0620 ..
ACMSRET	0688 ..	ADMSVIB	0C74 ..	APOINT	06FC ..	AUSERRST	0460 ..
ACMSSEG	05F0 ..	ADMSZIT	0C9C ..	APPSAVE	04F8 ..	AUSRAREA	0524 ..
ADBGSECT	0D18 ..	ADOSDCSS	04E8 ..	AQQTRK	06CC ..	AVIPWORK	0C78 ..
ADEVIND	0CB8 ..	AEPOINT	0CE8 ..	AQQTRKX	06D0 ..	AVSAMSYS	0C80 ..
ADEVSUP	0CB4 ..	AERASE	06D4 ..	ARDBUF	06E8 ..	AVSREOJ	0C88 ..
ADEVSUP2	0CDC ..	AESTATE	0CE0 ..	ARDTK	0624 ..	AVSRWORK	0C8C ..
ADEVTAB	0608 ..	AESTATEW	0CE4 ..	ASCANN	0628 ..	AWRBUF	06EC ..
ADIKQLAB	0C68 ..	AEXCAB	0D5C ..	ASCANO	068C ..	AWRTK	063C ..
ADIOSECT	0660 ..	AEXEC	0690 ..	ASCBPTR	06A4 ..	AYSTATX	0D0C ..
ADMPEXEC	065C ..	AEXTSECT	06A0 ..	ASORTFST	0CB0 ..	AYSTATZ	0D10 ..
ADMSABN	0D34 ..	AFINIS	06F0 ..	ASSTAT	062C ..	BALRSAVE	0BE0 ..
ADMSABW	0D1C ..	AFREE	0648 ..	ASSTATX	0D04 ..	BAMFLAGS	0CF8 ..
ADMSABXR	0E70 ..	AFRET	064C ..	ASSTATZ	0D08 ..	BATCPCH	0452 20
ADMSALU	0CAC ..	AFSTLKP	060C ..	ASTART	0694 ..	BATCPEX	0450 08
ADMSBLKR	0CD0 ..	AFSTLKW	0614 ..	ASTATE	06F4 ..	BATCPFNG	0452 80
ADMSBLKW	0CD4 ..	AFVS	0600 ..	ASTATEW	06F8 ..	BATDCMS	0451 08

CROSS REFERENCE (Name Disp Value)

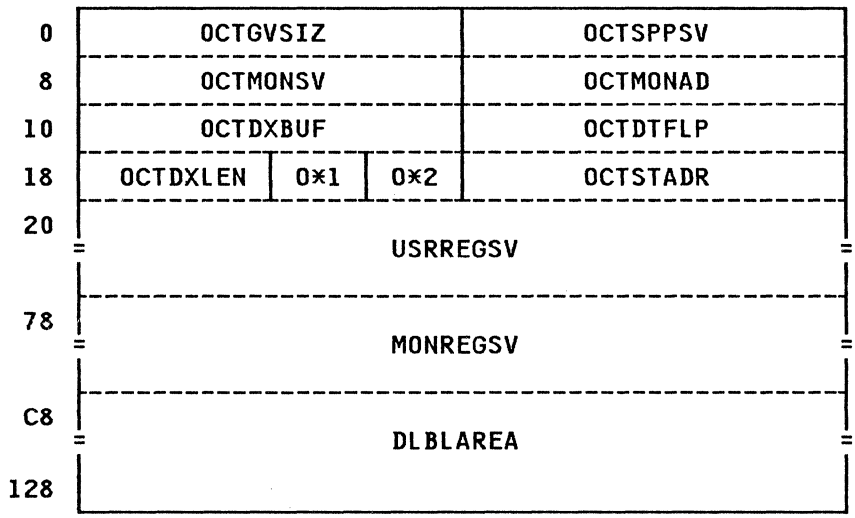
BATFLAGS	0450	..	DOSLBSV	046C	..	LASTTMOD	02C8	..	NUCEXSAD	0EB4	..
BATFLAG2	0451	..	DOSMODE	04D8	80	LASTVIRT	0298	..	NUCEXSMD	0E7A	..
BATFLAG3	0452	..	DOSNUM	04F4	..	LDRADDR	0578	..	NUCEXSST	05E6	04
BATFLAG4	0453	..	DOSPIO	04D8	08	LDRFLAGS	0588	..	NUCFLAG3	05E5	..
BATIPLSS	0451	04	DOSRC	04D9	..	LDRRTCD	057C	..	NUCFSTLN	0D60	..
BATLOAD	0450	40	DOSSVC	04D8	40	LINKLAST	05CC	..	NUCGETHI	0F28	..
BATMOVE	0450	02	DOSTRANS	04FC	..	LINKSTRT	05D0	..	NUCGLOBL	0CF9	20
BATNOEX	0450	20	DOSVSAM	04D8	20	LOADINCL	0593	02	NUCHSHTB	0E18	..
BATPRT	0452	40	DSYM	0598	..	LOCCNT	0574	..	NUCHSTDA	0EF0	..
BATRERR	0450	10	DUMPLIST	03A0	..	LOC0176	03A4	..	NUCHSTPO	0EF4	..
BATRUN	0450	80	DYLD	05C7	08	LOWSAVE	00C0	..	NUCHSTSZ	....	1FFE
BATSTOP	0451	02	DYLIBNOW	05C7	02	LSTFINRD	0550	..	NUCINSTS	0F38	..
BATSYSAB	0451	01	DYLIBO	05C7	04	MACLBSV	034C	..	NUCLANGA	05F0	..
BATTERM	0450	01	DYMBRNM	05C7	01	MAINHIGH	0510	..	NUCLANGC	0EA8	..
BATUSEX	0450	04	DYNAEND	05B0	..	MAINLIST	0500	..	NUCLANGD	0EB0	..
BATXCPU	0451	40	ECRLOG	01C0	..	MAINSTRT	0504	..	NUCLANSS	0EF8	..
BATXLIM	0451	80	ERR$202	0448	..	MCKNPSW	0070	..	NUCLDROS	0E30	..
BATXPRT	0451	20	EXECFLAG	05E6	..	MCKOPSW	0030	..	NUCLKED	05E4	04
BATXPUN	0451	10	EXECHALT	05E6	10	MDPCALL	0593	04	NUCLLDIR	0ECC	..
BR14$202	044C	..	EXECMASK	05E6	20	MISCECB	0E94	..	NUCLLNAM	0EBC	..
CAW	0048	..	EXECRUN	05E6	80	MISFLAGS	05E1	..	NUCLLNUM	0EEA	..
CDMSROS	06AE	..	EXECSTOP	05E6	40	MISFLAG2	05E4	..	NUCLLSIZ	0EDC	..
CLEAROP	0593	40	EXECTMSK	05E6	02	MODFLGS	0593	..	NUCLODSV	0DC8	..
CLKVALMD	02D8	..	EXECTRAC	05E6	01	MODGNALL	0593	10	NUCLSTLN	0D64	..
CMNDEXEC	0840	..	EXECTRST	05E6	08	MODGNDOS	0593	20	NUCMLDIR	0EC8	..
CMNDLINE	0740	..	EXRESET	05E4	80	MOD7	0593	01	NUCMLNAM	0EB8	..
CMNDLIST	0848	..	EXTNPSW	0058	..	MONCLASS	0094	..	NUCMLNUM	0EE8	..
CMSLVL	0E5C	..	EXTOPSW	0018	..	MONCODE	009C	..	NUCMLSIZ	0ED8	..
CMSPROG	0E5D	..	FCBFIRST	05C0	..	MSGFLAGS	05E2	..	NUCNASF	0DE4	..
CMSSERV	0E5E	..	FCBNUM	05C4	..	NDIKQLAB	0C6C	..	NUCNBSTK	0D6C	..
CODE203	052C	..	FCBTAB	05C0	..	NEGITS	05E1	02	NUCNLLID	0EAD	..
COMPSWT	05C7	80	FEIBM	0274	..	NOABBREV	05E0	10	NUCNLSTK	0D68	..
CONSTACK	0A60	..	FIRSTDMP	03A8	..	NODDSK	05E1	04	NUCNLTRT	0E04	..
CPULOG	0080	..	FPRLOG	0160	..	NOERRMSG	05E2	04	NUCOMEGA	0E00	..
CSW	0040	..	FREELIST	0508	..	NOERRTXT	05E2	02	NUCOSFLG	0CF9	..
CURRCPUT	0294	..	FREELOWE	0514	..	NOIMPCP	05E0	40	NUCOSRLD	0CF9	10
CURRDATE	0280	..	FREELOWR	0518	..	NOIMPEX	05E0	80	NUCOSRUN	0CF9	80
CURRIOOP	0540	..	FREENUM	050C	..	NOMAPFLG	0593	80	NUCPAGWK	0F2C	..
CURRSAVE	0528	..	FREESAVE	0BA0	..	NOPAGREL	05E0	08	NUCPATHF	0E1C	..
CURRTIME	0288	..	FREEUPPR	051C	..	NORDYMSG	05E2	20	NUCPENDW	05E5	80
CURRVIRT	0290	..	FRERESPG	052E	..	NORDYTIM	05E2	10	NUCPLBEG	0E0C	..
DATIPCMS	02D0	..	FRSTLOC	056C	..	NOSTDSYN	05E0	20	NUCPLCMD	0E08	..
DBGABN	05E3	10	FRS06	03B0	..	NOTYPING	05E2	40	NUCPLEND	0E10	..
DBGEXEC	05E3	80	FSTFINRD	054C	..	NOTYPOUT	05E2	80	NUCPLFID	0E14	..
DBGEXINT	05E3	20	GET1	0594	..	NOVMREAD	05E0	04	NUCPLIST	0E08	..
DBGFLAGS	05E3	..	GLBLTABL	0440	..	NUCADFNC	0E2C	..	NUCPLSWT	0E14	..
DBGNSHR	05E3	08	GPRLOG	0180	..	NUCADIE	0F34	..	NUCROSG0	0080	..
DBGPGMCK	05E3	40	GRAFDEV	05E1	10	NUCAFCHS	0D78	..	NUCROSG1	0084	..
DBGRECUR	05E3	02	GRS015	03A0	..	NUCALADR	0F24	..	NUCRSVB2	0CFA	..
DBGSHR	05E3	04	HLPADDR	0270	..	NUCALPHA	0DF8	..	NUCRSV3	0088	..
DCBSAV	05DC	..	IADT	0644	..	NUCAPAR	0F14	..	NUCRS2	05BE	40
DCSSAVAL	05EA	80	IMESCAPE	0E78	..	NUCAPIO	0DEC	..	NUCRS3	05BE	20
DCSSCPNV	05EA	20	INSTALID	0220	..	NUCASTP	0D00	..	NUCRS4	05BE	10
DCSSFLAG	05EA	..	IONPSW	0078	..	NUCASTTV	0F1C	..	NUCRS5	05BE	08
DCSSJLNS	05EA	01	IOOPSW	0038	..	NUCAXADT	0F20	..	NUCRS6	05BE	04
DCSSLDED	05EA	40	IPLADDR	0268	..	NUCCBLKS	0D7C	..	NUCRS7	05BE	02
DCSSLDSD	05EA	10	IPLCCW1	0008	..	NUCCIOBF	0F18	..	NUCRS8	05BE	01
DCSSOVLP	05EA	02	IPLCCW2	0010	..	NUCCOPYR	00A0	..	NUCSCBLK	0CF4	..
DCSSVTLD	05EA	04	IPLPSW	0000	..	NUCCPCMD	05E4	08	NUCSCRQA	0EFC	..
DCSSVTNA	05EA	08	JSYM	05A0	..	NUCCSFFN	0F30	..	NUCSIGMA	0DFC	..
DEVICE	026C	..	KOSWITCH	05E1	40	NUCCWA	0DE0	..	NUCSIMFG	05BE	80
DIAGTIME	0280	..	KXSWITCH	05E1	80	NUCDEVF	0E20	..	NUCSMBLK	0E24	..
DMPTIT	03B4	..	LABFIRST	05B8	..	NUCDLDIR	0ED0	..	NUCSMPST	0F40	..
DMPTITLE	03BC	..	LABNUM	05BC	..	NUCDLNAM	0EC0	..	NUCSMQST	0F44	..
DONTHASH	05E4	20	LASTCMND	02A0	..	NUCDLNUM	0EEE	..	NUCSMSTA	0F00	..
DOSBAM	0CF8	80	LASTCPUT	029C	..	NUCDLSIZ	0EE0	..	NUCSMSTB	0F04	..
DOSCOMP	04D8	10	LASTDMP	03AC	..	NUCEOWA	0DE8	..	NUCSMSTC	0F08	..
DOSFIRST	04F0	..	LASTEXEC	02B0	..	NUCERT	0E38	..	NUCSVQOF	0DDC	..
DOSFLAGS	04D8	..	LASTLMOD	02C0	..	NUCEXEC	05E5	40	NUCSYSDF	0CF9	40
DOSKPART	04F6	..	LASTLOC	0570	..	NUCEXIS	0E84	..	NUCSZABV	0E28	..

CROSS REFERENCE (Name Disp Value)

NUCTIEIN	0D70	..	OPTFLAGS	05E0	..	RELPAGES	05E1	20	TIMER	0050	..
NUCTLDIR	0354	..	OSMODLDW	05B4	..	RLDDATA	0E88	..	TOTLIBS	0350	..
NUCTLNAM	0EC4	..	OSRESET	05C7	20	RLDDWSZ	....	2000	TSOATCNL	05E8	80
NUCTLNUM	0EEE	..	OSSFLAGS	05C7	..	RLDPOINT	0E8C	..	TSOFLAGS	05E8	..
NUCTLSIZ	0EE4	..	OSSMNU	05C7	40	RSTNPSW	0000	..	TXLIBSV	0348	..
NUCTNABL	05E4	10	OSTYPLD	05E4	40	RSTOPSW	0008	..	TXTDIRC	0354	..
NUCTODCA	0EA8	..	OSWAIT	05C7	10	SPECLF	05E2	01	UNRES	0592	..
NUCUPPER	0E34	..	PCTVSAM	0C60	..	STRTADDR	0568	..	USERLVL	0E58	..
NUCUSER1	0E48	..	PENDREAD	0544	..	SUBACT	05E9	01	VCADTLKP	0534	..
NUCUSER2	0E4C	..	PENDWRIT	0548	..	SUBFLAG	05E9	..	VCADTLKW	053C	..
NUCUSER3	0E50	..	PERADDR	0098	..	SUBINIT	05E9	02	VCADTNXT	0538	..
NUCUSER4	0E54	..	PERCODE	0096	..	SUBREJ	05E9	08	VCFSTLKP	05F8	..
NUCVECTR	05E4	01	PGMNPSW	0068	..	SUBRTN	05E9	04	VCFSTLKW	05FC	..
NUCWEXRD	0F10	..	PGMOPSW	0028	..	SVCNPSW	0060	..	VIPINIT	0C7C	20
NUCWEXWR	0F0C	..	PREVCMND	02A8	..	SVCOPSW	0020	..	VIPSOP	0C7C	08
NUCWRKBK	0DCC	..	PREVEXEC	02B8	..	SVCWKADR	0E7C	..	VIPTCLOS	0C7C	04
NUCXCBEE	0E44	..	PRFPOFF	05E7	80	SVC12SAV	04EC	..	VMSIZE	0560	..
NUCXCBLK	0E3C	..	PRFTSYS	05E7	40	SVC$201	0446	..	VSAMFLG1	0C7C	..
NUCXEND	0E68	..	PRFUSYS	05E7	20	SYSADDR	026A	..	VSAMRUN	0C7C	80
NUCXFRES	0E40	..	PRHOLD	058C	..	SYSLOAD	0593	08	VSAMSERV	0C7C	10
NUC4KKEY	05E4	02	PROTFLAG	05E7	..	SYSNAME	0260	..	VSAMSOS	0C7C	02
NUMFINRD	055C	..	PSW	0580	..	SYSREF	0600	..	VSJOBCAT	0C7C	40
NUMPNDWR	055E	..	QSWITCH	05E1	08	SYSTEMID	0200	..	VSMINSTL	04D8	04
NUSERFWD	0464	..	RDTDRCT	05E0	01	TAXEADDR	05D4	..	WAITSAVE	0C20	..
NXTSYM	05A4	..	REDERRID	05E2	08	TBENT	0590	..			

OCTS: OPEN/CLOSE TRANSIENT SVA PLIST

OCTS describes the fields in the OPEN/CLOSE transient SVA PLIST used in the CMS/DOS environment. OCTS is invoked by the OCTS macro.



SIZE

```
USER REG SAVE AREA LENGTH IN BYTES (USRRGLEN) 058
OCTS LENGTH IN DOUBLEWORDS         (OCTSDWDS) 026
OCTS LENGTH IN BYTES               (OCTSLEN)  130
```

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	OCTSPLST	0		
0	OCTGVSIZ	4		SIZE OF OCTS
4	OCTSPPSV	4		PP REG SAVE AREA POINTER
8	OCTMONSV	4		IJJGMTOP SAVE AREA POINTER
C	OCTMONAD	4		ADDRESS OF $IJJGTOP
10	OCTDXBUF	4		RESERVED FOR VSAM SPACE MANAGEMENT
14	OCTDTFLP	4		POINTER TO NEXT ENTRY IN DTF LST
18	OCTDXLEN	2		RESERVED FOR VSAM SPACE MANAGEMENT
1A	OCT1FLAG	1	0*1	FLAG BYTE

Values Defined in OCT1FLAG

```
80 OCTCPDI          CP/DI INDICATOR
40 OCTDITYP         DTFDI INDICATOR
20 OCTSPMGT         RESERVED FOR VSAM SPACE MANAGEMENT
```

DISP	NAME	LEN	KEY	DESCRIPTION
1B	OCT2FLAF	1	0*2	SECOND FLAG BYTE...UNUSED
1C	OCTSTADR	4		ADDRESS OF START OF OCTS PLIST
20	OCTSEXTN			
20	USRREGSV	88		USERS REG SAVE AREA
78	MONREGSV	80		IJJGMTOP SAVE AREA
C8	WORKAREA			
C8	DLBLAREA	104		RESERVED FOR VSAM SPACE MANAGEMENT
130	OCTSEND			

CROSS REFERENCE (Name Disp Value)

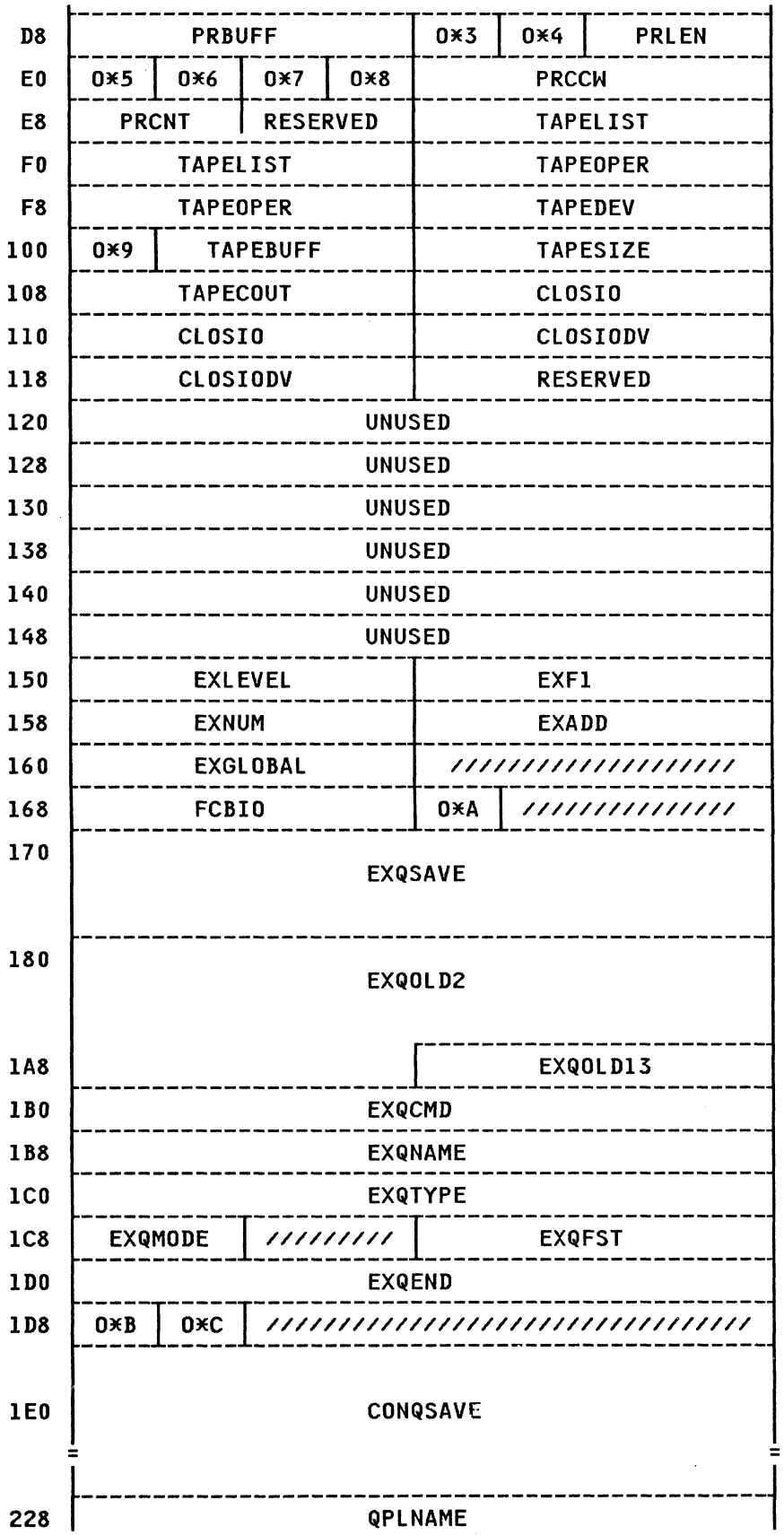
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

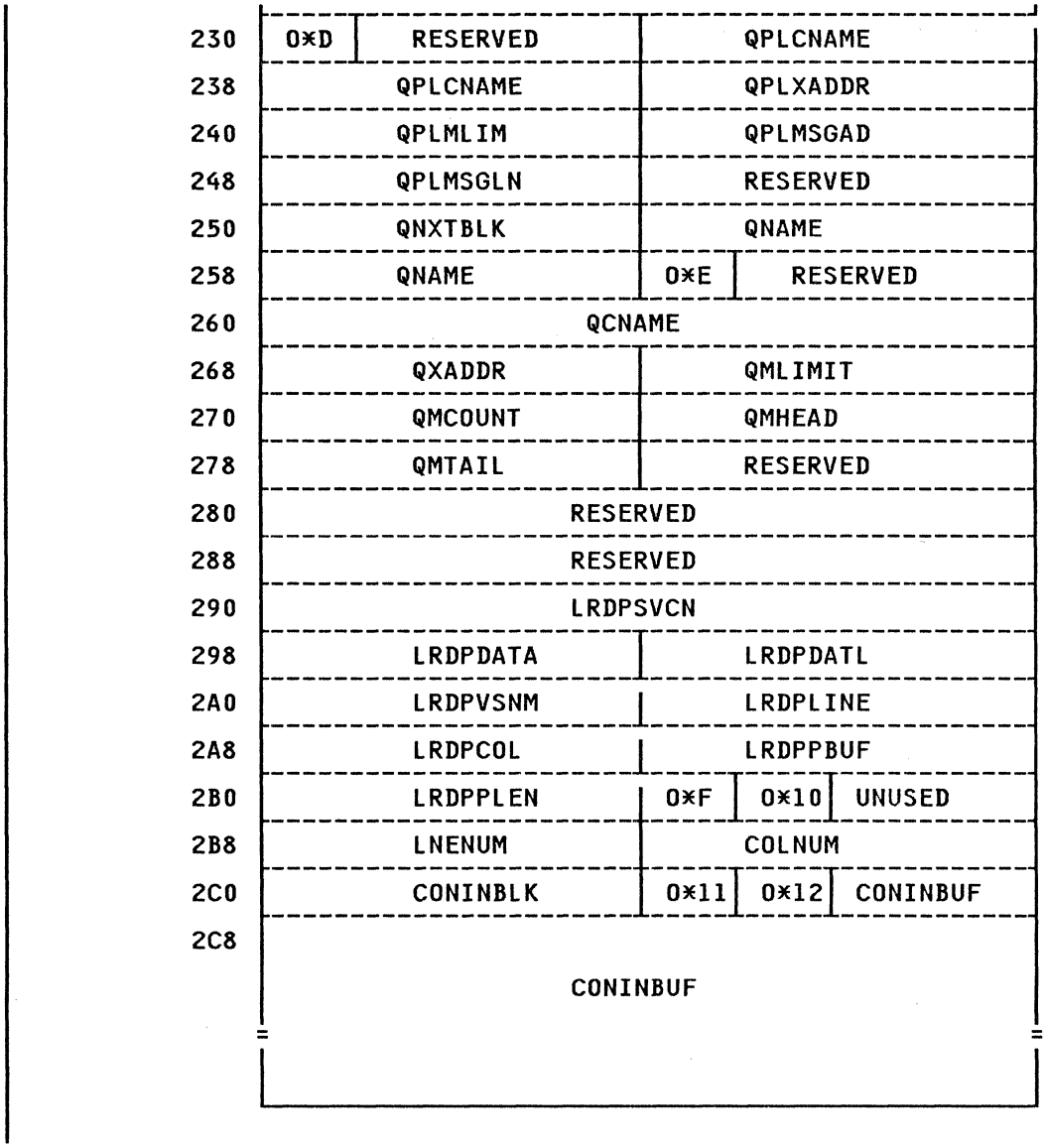
DLBLAREA	00C8 ..	OCTDXLEN	0018 ..	OCTSEXTN	001C 20	OCT1FLAG	001A ..
MONREGSV	0078 ..	OCTGVSIZ	0000 ..	OCTSLEN	.... **	OCT2FLAF	001B ..
OCTCPDI	001A 80	OCTMONAD	000C ..	OCTSPLST	0000 ..	USRREGSV	0020 ..
OCTDITYP	001A 40	OCTMONSV	0008 ..	OCTSPMGT	001A 20	USRRGLEN	 58
OCTDTFLP	0014 ..	OCTSDWDS	 26	OCTSPPSV	0004 ..	WORKAREA	00C8 ..
OCTDXBUF	0010 ..	OCTSEND	0130 ..	OCTSTADR	001C ..		

OPSECT: MAJOR CSECT FOR ALL I/O OPERATION LISTS

OPSECT describes the fields that several programs use as parameter lists for reading and writing on disks and other devices. The OPSECT CSECT is pointed to by the AOPSECT field in NUCON. OPSECT is invoked via the IO macro.

0	CMSOP			
8	FILENAME			
10	FILETYPE			
18	FILEMODE	////////	FILEBUFF	
20	FILEBYTE		FILEFORM	//////////
28	FILEREAD		FILEITEM	
30	FILECOUT		FILEWPTR	
38	FILERPTR		SAVER14	
40	SAVER15		SAVER0	
48	SAVER1		CMSNAME	
50	CMSNAME (CONT.)		//////////////////////	
58	CONREAD			
60	CONRDBUF		0*1	/// CONRDCNT
68	//////////////////		WAITLIST	
70	WAITLIST		CONWRITE	
78	CONWRITE		CONWRBUF	
80	0*2	///	CONWRNCT	WAITLST
88	WAITLST		WAITDEV	
90	//			
98	CONPCCW			
A0	CONCCWS			
A8				
B0	READLST			
B8	RDBUFF		RDCCW	RDCOUNT
C0	PUNCHLST			
C8	PUNBUFF		PUNCOUNT	
D0	PRINTLST			





HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PLIST	0		
0	CMSOP	8		I/O OPERATION COMMAND WORD
8	FILENAME	8		FILE NAME
10	FILETYPE	8		FILE TYPE
18	FILEMODE	2		FILE MODE
1A		2		RESERVED
1C	FILEBUFF	4		INPUT-OUTPUT BUFFER
1C	AFST	4		

DISP	NAME	LEN	KEY	DESCRIPTION
1C	IOAREA	4		BUFFER AREA LOCATION
20	FILEBYTE	4		DATA COUNT
20	IOLENGTH	4		BUFFER LENGTH
24	FILEFORM	2		FILE FORMAT: FIXED/VARIABLE RECORDS
26		2		RESERVED
28	FILEREAD	4		READ DATA COUNT
2C	FILEITEM	4		ITEM NUMBER
2C	POINTERS	4		
30	FILECOUT	4		NUMBER OF ITEMS
34	FILEWPTR	4		WRITE POINTER
38	FILERPTR	4		READ POINTER
IMMEDIATE REGISTER SAVE AREA				
3C	SAVER14	4		TEMPORARY R14 SAVE
40	SAVER15	4		TEMPORARY R15 SAVE
44	SAVER0	4		TEMPORARY R0 SAVE
48	SAVER1	4		TEMPORARY R1 SAVE
4C	CMSNAME	8		"DEFAULT FILENAME"
CONSOLE PARAMETER LISTS READ CONSOLE				
58	CONREAD	8		TERMINAL READ
60	CONRDBUF	4		ADDRESS OF INPUT BUFFER
64	CONRDCOD	1	0*1	TRANSLATE CODE
65		1		RESERVED
66	CONRDCNT	2		DATA BYTE COUNT
68		4		RESERVED
CONSOLE WAIT LIST				
6C	WAITLIST	8		
WRITE CONSOLE				
74	CONWRITE	8		
7C	CONWRBUF	4		LOCATION OF MESSAGE TEXT
80	CONWRCOD	1	0*2	COLOR CODE
81		1		RESERVED
82	CONWRCNT	2		LENGTH OF MESSAGE TEXT
WAIT PARAMETER LIST				
84	WAITLST	8		
8C	WAITDEV	4		

DISP	NAME	LEN	KEY	DESCRIPTION
90		4		RESERVED
94		4		RESERVED
	INTERACTIVE CONSOLE COMMUNICATION CHANNEL PROGRAM			
98	CONPCCW	8		WRITE FOR APL ASCII PROMPT
A0	CONCCWS	8		NORMAL READ OR WRITE
A8		8		NOP TO GET CE AND DE TOGETHER
	READER PARAMETER LIST			
B0	READLST	8		
B8	RDBUFF	4		BUFFER ADDRESS
BC	RDCCW	2		CCW BYTE COUNT
BE	RDCOUNT	2		BYTES ACTUALLY READ
	CARD PUNCH PARAMETER LIST			
C0	PUNCHLST	8		
C8	PUNBUFF	4		PUNCH BUFFER ADDRESS
CC	PUNCOUNT	4		PUNCH CCW COUNT
	PRINTER PARAMETER LIST			
D0	PRINTLST	8		
D8	PRBUF	4		PRINTER BUFFER ADDRESS
DC	PRTRC	1	0*3	TRC BYTE
DD	PRFLGS1	1	0*4	PRINT FLAGS
	Values Defined in PRFLGS1			
80	PRXPLIST			EXTENDED PLIST IN USE
08	PR3800			VIRTUAL PRINTER IS A 3800
04	PRTRCINP			PLIST TRC BYTE IS VALID
02	PRTRCIND			TRC IN DATA
01	PRNOASA			CC BYTE NOT ASCII
DE	PRLEN	2		PRINT DATA LENGTH
	EXTENDED PLIST			
F0	PRFLGS2	1	0*5	PRINT FLAGS
	Values Defined in PRFLGS2			
04	PRCCINP			CONTROL CHARACTER IN PLIST
02	PRCMSDEV			CMSDEV INFORMATION IN PLIST
01	PRFORM			0: FORM=BUFFER, 1: FORM=LIST
E1	PRCC	1	0*6	CONTROL CHARACTER
E2	PRDEVC	1	0*7	PRINTER DEVICE CLASS
E3	PRDEVT	1	0*8	PRINTER DEVICE TYPE
E4	PRCCW	4		CCW BUFFER ADDRESS

DISP	NAME	LEN	KEY	DESCRIPTION
E8	PRCNT	2		PRINT RECORD COUNT
EA		2		RESERVED FOR FUTURE USE
EC	PRINTEND	0		END OF PRINTER PLIST
	END OF PRINTER PLIST			
	TAPE PARAMETER LIST			
EC	TAPELIST	8		
F4	TAPEOPER	8		TAPE OPERATION COMMAND
FC	TAPEDEV	4		TAPE SYMBOLIC DEVICE
100	TAPEMASK	1	0*9	SET MODE
101	TAPEBUFF	3		BUFFER LOCATION
104	TAPESIZE	4		
108	TAPECOUT	4		TAPE COUNTER
	CLOSE OUT DEVICE DEPENDENT DATA SET ON UNIT RECORD EQUIPMENT			
10C	CLOSIO	8		
114	CLOSIODV	8		DEVICE TYPE
11C		4		RESERVED
120		48		UNUSED
	STORAGE FOR EXEC BOOTSTRAP			
150	EXLEVEL	4		EXEC "LEVEL"
154	EXF1	4		(FOLLOWS EXLEVEL)
158	EXNUM	4		NUMBER DOUBLEWORDS FREE STORAGE
15C	EXADD	4		ADDRESS OF "EXECTOR" CORE-IMAGE
160	EXGLOBAL	4		ADDRESS OF EXEC GLOBAL AREA
164		4		RESERVED
	STORAGE FOR OS MACRO SIMULATION ROUTINES			
168	FCBIO	4		ADDRESS OF LAST FCB USED DURING I/O
16C	OSIOTYPE	1	0*A	OS ACCESS METHOD TYPE
	REGISTER SAVE AREA AND WORK AREA FOR DMSEXQ			
170	EXQWORK	0		
170	EXQSAVE	16		SAVEAREA FOR R14-R1
180	EXQOLD2	44		SAVEAREA FOR R2-R12
1AC	EXQOLD13	4		SAVEAREA FOR R13
1B0	EXQCMD	8		USED AS PLIST FOR STATE CMD
1B8	EXQNAME	8		EXECNAME PASSED IN PARMLIST

DISP	NAME	LEN	KEY	DESCRIPTION
1C0	EXQTYPE	8		EXECTYPE PASSED IN PARMLIST
1C8	EXQMODE	2		FILEMODE FOR STATE COMMAND
1CA		2		RESERVED
1CC	EXQFST	4		FST ADDRESS FROM STATE
1D0	EXQEND	8		FENCE FOR STATE
1D8	EXQFLAG	1	0*B	FLAG FOR OPTIONS
1D9	SAVEBYTE	1	0*C	SAVE MESSAGE FLAG SETTING
1DA		6		RESERVED
1E0	CONQSAVE	72		QUEUE MANAGER SAVE AREA
QUEUE PARAMETER LIST				
228	QPLST	0		QUEUE MANAGER PLIST
228	QPLNAME	8		QUEUE NAME
230	QPLOPTNS	1	0*D	OPTIONS FLAG BYTE
Values Defined in QPLOPTNS				
80	QPLCLFLG			QUEUE CLASS- ON=INPUT QUEUE; OFF=OUTPUT QUEUE
40	QPLCNFLG			QUEUE CONNECTION SPECIFIED
20	QPLCCFLG			CLASS OF THE CONNECTED QUEUE
10	QPLXAFLG			QUEUE EXIT SPECIFIED
08	QPLMLFLG			QUEUE MESSAGE LIMIT SPECIFIED
04	QPLMDFLG			PUT MODE- ON=LIFO; OFF=FIFO
02	QPLQYFLG			QUERY FUNCTION REQUEST- ON =QUERY CONNECTION OFF=QUERY MESSAGE COUNT
01				RESERVED
231		3		RESERVED FOR FUTURE USE
234	QPLCNAME	8		CONNECTED QUEUE NAME
23C	QPLXADDR	4		EXIT ROUTINE ADDRESS
240	QPLMLIM	4		MESSAGE LIMIT
244	QPLMSGAD	4		MESSAGE ADDRESS
248	QPLMSGLN	4		MESSAGE LENGTH
Value Defined				
24	QPLSTLEN			LENGTH OF QPLST IN BYTES
24C		4		UNUSED
250	CMSQPLK	0		
250	QNXTBLK	4		FWD PTR - NEXT QUEUE BLOCK
254	QNAME	8		NAME OF THIS QUEUE

DISP	NAME	LEN	KEY	DESCRIPTION
25C	QFLAGS	1	0*E	QUEUE FLAG BYTE
	Values Defined in QFLAGS			
	80 QCLFLAG			QUEUE CLASS- INPUT OR OUTPUT
	40 QCNFLAG			QUEUE CONNECTION SPECIFIED
	20 QCNCFLAG			CLASS OF THE CONNECTED QUEUE
	10 QXAFLAG			QUEUE EXIT ADDRESS SPECIFIED
	08 QMLFLAG			QUEUE MESSAGE LIMIT SPECIFIED
25D		3		RESERVED FOR FUTURE USE
260	QCNAME	8		CONNECTED QUEUE NAME
268	QXADDR	4		EXIT ROUTINE NAME
26C	QMLIMIT	4		MAXIMUM NUMBER OF MESSAGES
270	QMCOUNT	4		NUMBER OF MESSAGES QUEUED
274	QMHEAD	4		HEAD OF MESSAGE QUEUE
278	QMTAIL	4		TAIL OF MESSAGE QUEUE
27C		20		RESERVED FOR FUTURE USE
	LINERD PARAMETER LIST			
290	LRDP	0		LINE READ PLIST
290	LRDPSVCN	8		8-BYTE SVC NAME
298	LRDPDATA	4		DATA BUFFER ADDRESS
29C	LRDPDATL	4		DATA BUFFER LENGTH
2A0	LRDPVSNM	4		ADDRESS OF VIRTUAL SCREEN NAME
2A4	LRDPLINE	4		ADDRESS OF LINE NUMBER OF DATA READ
2A8	LRDPCOL	4		ADDRESS OF COLUMN NUMBER OF DATA READ
2AC	LRDPPBUF	4		ADDRESS OF PROMPT BUFFER
2B0	LRDPPLEN	4		LENGTH OF PROMPT BUFFER
2B4	LRDPFLG1	1	0*F	EDIT OPTIONS -- BYTE 1
	Values Defined in LRDPFLG1			
	80 LRDPPAD			PAD INPUT (BLANKS OR NULLS)
	40 LRDPPADC			PAD INPUT WITH BLANKS
	20 LRDPDRCT			READ DIRECT
	10 LRDPMASK			INHIBIT DISPLAY OF INPUT DATA
	08 LRDPSTCK			CHECK THE PROGRAM STACK
	04 LRDPLGCL			READ A LOGICAL LINE
	02 LRDPTRNS			TRANSLATE INPUT DATA
	01 LRDPTRUP			TRANSLATE TO UPPER CASE

```
DISP   NAME      LEN KEY  DESCRIPTION

| 2B5   LRDPFLG2   1 0*10 EDIT OPTIONS -- BYTE 2

     Values Defined in LRDPFLG2

     80 LRDPWAIT           WAIT FOR ATTENTION INTERRUPT
     40 LRDPRTRY           RETRY IF ATTENTION INTERRUPT

     Values Defined

     26 LRDPLEN            LENGTH OF LRDP IN BYTES
     05 LRDPLEND           LENGTH OF LRDP IN DOUBLEWORDS

| 2B6              2      RESERVED FOR FUTURE USE

  END OF LINERD PLIST

  FIELDS REQUIRED BY LINERD

| 2B8   LNENUM     4      LINE NUMBER OF THE DATA READ

| 2BC   COLNUM     4      COLUMN NUMBER OF THE DATA READ

  CONSOLE INPUT BUFFER

| 2C0   CONINBLK   4      RESERVED FOR FUTURE

| 2C4   CONINCDE   1 0*11 FLAGS AND COMMAND CODE

     Values Defined in CONINCDE

     0A CONRD              READ COMMAND CODE
     0E CONRDINV           SPECIAL READ COMMAND CODE, TO INHIBIT
                           DISPLAY OF DATA READ
     40 CONATTN            ATTENTION READ
     09 CONWRCR            WRITE WITH CARRIAGE RETURN
     01 CONWRNCR           WRITE WITH NO CARRIAGE RETURN
     FF CBUFMAX            MAXIMUM CONSOLE READ LENGTH

| 2C5   CONINLEN   1 0*12 LENGTH TO BE READ FROM CONSOLE

| 2C6   CONINBUF   255    INPUT LINE
```

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

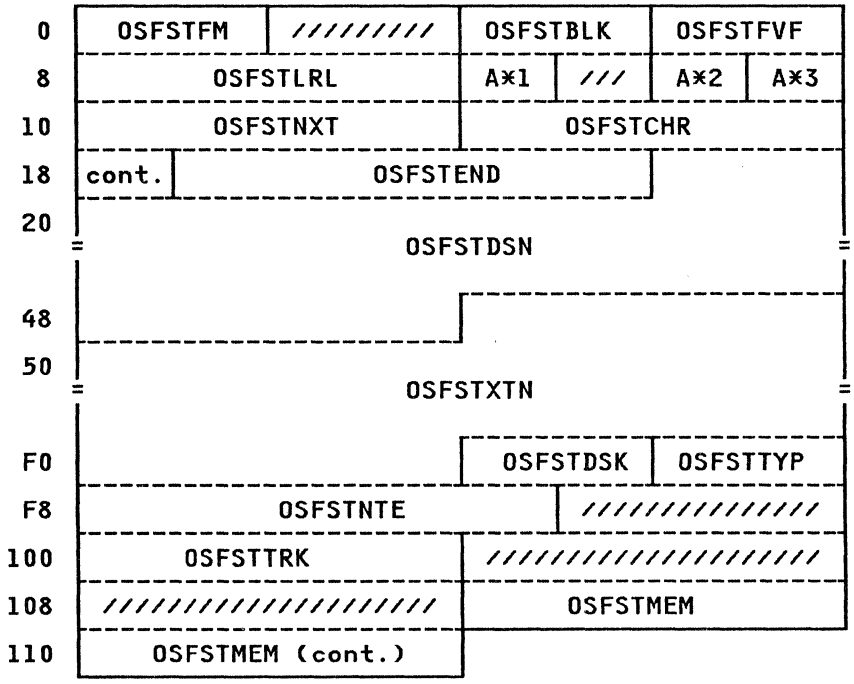
```
  AFST     001C ..  | CONLINLEN 2C5       CONWRITE 0074 ..    EXQOLD2  0180 ..
| CBUFMAX  02C4 ..  | CONRD     02C4 0A | CONWRNCR 02C4 01    EXQOLD13 01AC ..
  CLOSIO   010C ..  | CONRDINV  02C4 0E   EXADD    015C ..    EXQSAVE  0170 ..
  CLOSIODV 0114 ..    CONPCCW   0098 ..   EXF1     0154 ..    EXQTYPE  01C0 ..
  CMSNAME  004C ..  | CONQSAVE  01E0 ..   EXGLOBAL 0160 ..    EXQWORK  0170 ..
  CMSOP    0000 ..    CONRDBUF  0060 ..   EXLEVEL  0150 ..    FCBIO    0168 ..
| CMSQPLK  0250        CONRDCNT  0066 ..   EXNUM    0158 ..    FILEBUFF 001C ..
| COLNUM   02BC ..     CONRDCOD  0064 ..   EXQCMD   01B0 ..    FILEBYTE 0020 ..
| CONATTN  02C4 40     CONREAD   0058 ..   EXQEND   01D0 ..    FILECOUT 0030 ..
  CONCCWS  00A0 ..     CONWRBUF  007C ..   EXQFLAG  01D8 ..    FILEFORM 0024 ..
| CONINBLK 02C0 ..     CONWRCNT  0082 ..   EXQFST   01CC ..    FILEITEM 002C ..
| CONINBUF 02C6        CONWRCOD  0080 ..   EXQMODE  01C8 ..    FILEMODE 0018 ..
  CONINCDE 02C4 ..  | CONWRCR   02C4 09   EXQNAME  01B8 ..    FILENAME 0008 ..
```

CROSS REFERENCE (Name Disp Value)

FILEREAD	0028	..	LRDPTRUP	02B4	01	PUNBUFF	00C8	..	QPLQYFLG	0230	02
FILERPTR	0038	..	LRDPVSNM	02A0	..	PUNCHLST	00C0	..	QPLST	0228	..
FILETYPE	0010	..	LRDPWAIT	02B5	80	PUNCOUNT	00CC	..	QPLXADDR	023C	..
FILEWPTR	0034	..	OSIOTYPE	016C	..	QCLFLAG	025C	80	QPLXAFLG	0230	10
IOAREA	001C	..	PLIST	0000	..	QCNAME	0260	..	QPSTLEN	0248	24
IOLENGTH	0020	..	POINTERS	002C	..	QCNCFLAG	025C	20	QXADDR	0268	..
LNENUM	02B8	..	PRBUF	00D8	..	QCNFLAG	025C	40	QXAFLAG	025C	10
LRDP	0290	..	PRCC	00E1	..	QFLAGS	025C	..	RDBUFF	00B8	..
LRDPCOL	02A8	..	PRCCINP	00E0	04	QMCOUNT	0270	..	RDCCW	00BC	..
LRDPDATA	0298	..	PRCCW	00E4	..	QMHEAD	0274	..	RDCOUNT	00BE	..
LRDPDATL	029C	..	PRCMSDEV	00E0	02	QMLFLAG	025C	08	READLST	00B0	..
LRDPDRCT	02B4	20	PRCNT	00E8	..	QMLIMIT	026C	..	SAVEBYTE	01D9	..
LRDPFLG1	02B4	..	PRDEVC	00E2	..	QMTAIL	0278	..	SAVER0	0044	..
LRDPFLG2	02B5	..	PRDEVT	00E3	..	QNAME	0254	..	SAVER1	0048	..
LRDPLEN	02B5	26	PRFLGS1	00DD	..	QNXTBLK	0250	..	SAVER14	003C	..
LRDPLEND	02B5	05	PRFGLS2	00E0	..	QPLCCFLG	0230	20	SAVER15	0040	..
LRDPLGCL	02B4	04	PRFORM	00E0	01	QPLCLFLG	0230	80	TAPEBUFF	0101	..
LRDPLINE	02A4	..	PRINTEND	00EC	..	QPLCNAME	0234	..	TAPECOUT	0108	..
LRDPMASK	02B4	10	PRINTLST	00D0	..	QPLCNFLG	0230	40	TAPEDEV	00FC	..
LRDPPAD	02B4	80	PRLEN	00DE	..	QPLMDFLG	0230	04	TAPELIST	00EC	..
LRDPPADC	02B4	40	PRNOASA	00DD	01	QPLMLFLG	0230	08	TAPEMASK	0100	..
LRDPPBUF	02AC	..	PRTRC	00DC	..	QPLMLIM	0240	..	TAPEOPER	00F4	..
LRDPPLEN	02B0	..	PRTRCIND	00DD	02	QPLMSGAD	0244	..	TAPESIZE	0104	..
LRDPRTRY	02B5	40	PRTRCINP	00DD	04	QPLMSGLN	0248	..	WAITDEV	008C	..
LRDPSTCK	02B4	08	PRXPLIST	00DD	80	QPLNAME	0228	..	WAITLIST	006C	..
LRDPSVCN	0290	..	PR3800	00DD	08	QPLOPTNS	0230	..	WAITLST	0084	..
LRDPTRNS	02B4	02									

OSFST: OS FILE STATUS TABLE

OSFST describes the fields of an OS file status table. When an OS disk is accessed, DMSROS obtains storage from CMS free storage, builds and fills in an OSFST block, which is comparable to a CMS FST block. This block is released by DMSALU. OSFST is invoked via the OSFST macro.



SIZE

OSFST LENGTH IN DOUBLEWORDS (OSFSTLTH) 23

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	OSFSTFM	2		DISK MODE
2		2		RESERVED
4	OSFSTBLK	2		BLOCKSIZE
6	OSFSTFVF	2		FIXED/VARIABLE FLAG
8	OSFSTLRL	4		LOGICAL RECORD SIZE
C	OSFSTRFM	1	A*1	OS RECORD FORMAT
D		1		RESERVED

DISP	NAME	LEN	KEY	DESCRIPTION
E	OSFSTFLG	1	A*2	FLAG BYTE
	Values Defined in OSFSTFLG			
80	OSFSTALT			ALTERNATE TRACK INDICATOR
40	OSFSTDBK			BLOCKSIZE NOT SPECIFIED IN DSCB
08	OSFSTMVL			MULTIPLE VOLUME DATA SET
02	OSFSTUMV			UNMOVEABLE DATA SET
01	OSFSTRSW			INDICATES POINT+1 JUST ISSUED
F	OSFSTXNO	1	A*3	NUMBER OF DATA EXTENTS ON DISK
10	OSFSTNXT	4		NEXT OS FST
14	OSFSTCHR	5		CCHHR OF LAST I/O OPERATION
19	OSFSTEND	5		CURRENT EXTENT END
1E	OSFSTDSN	44		DATA SET NAME
4A	OSFSTXTN	170		DATA EXTENTS DESCRIPTION
68	OSFSTEX4			LOCATION OF 4TH EXTENT FROM DSCB3
F4	OSFSTDSK	2		DISK ADDRESS (0CUU)
F6	OSFSTTYP	2		DISK DEVICE TYPE (SEE OSADT FOR TYPE FLAGS)
F8	OSFSTNTE	5		USED TO SAVE CCHHR FOR NOTE MACRO
FD		3		RESERVED
100	OSFSTTRK	4		NUMBER TRACKS PER CYLINDER
104		8		RESERVED
10C	OSFSTMEM	8		PARTITIONED DATA SET MEMBER NAME

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

OSFSTALT 000E 80	OSFSTEND 0019 ..	OSFSTLTH 23	OSFSTRSW 000E 01
OSFSTBLK 0004 ..	OSFSTEX4 004A 68	OSFSTMEM 010C ..	OSFSTTRK 0100 ..
OSFSTCHR 0014 ..	OSFSTFLG 000E ..	OSFSTMVL 000E 08	OSFSTTYP 00F6 ..
OSFSTDBK 000E 40	OSFSTFM 0000 ..	OSFSTNTE 00F8 ..	OSFSTUMV 000E 02
OSFSTDSK 00F4 ..	OSFSTFVF 0006 ..	OSFSTNXT 0010 ..	OSFSTXNO 000F ..
OSFSTDSN 001E ..	OSFSTLRL 0008 ..	OSFSTRFM 000C ..	OSFSTXTN 004A ..

OVSECT: DESCRIPTION OF THE FIRST FEW LOCATIONS OF DMSOVS

OVSECT is used by module DMSOVS to provide trace information requested by SVCTRACE. OVSECT is invoked by the OVSECT macro.

0	OVSGO	AERR
8	AMGM	AWAIT
10	LEONOVS	

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	OVSGO	4		BRANCH TO THIS POINT FOR TRACE
4	AERR	4		ADDRESS OF DMSERR
8	AMGM	4		ADDRESS OF DMSMGM
C	AWAIT	4		ADDRESS OF CONWAIT
10	LENOVS	4		DMSOVS LENGTH IN DOUBLEWORDS

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

AERR	0004	..	AWAIT	000C	..	LENOVS	0010 ..
AMGM	0008					OVSGO	0000 ..

PARMLIST: PROP ACTION ROUTINE PARAMETER LIST

PARMLIST is used as a template to describe the parameter list which is passed by programmable operator facility to the action routine. Each fullword points to an element of parameter data. PARMLIST is found in PROP copy.

0	PARMMSG	PARMMLN
8	PARMMSGT	PARMNETM
10	PARMRUSR	PARMRNOD
18	PARMPUSR	PARMPNOD
20	PARMOUSR	PARMONOD
28	PARMRTFI	PARMRTPM
30	PARMMTYP	PARMARTN
38	PARMEND	

SIZE

PARMLIST SIZE IN DOUBLEWORDS (PARMSIZE) 08

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PARMMSG	4		ORIGINAL MESSAGE TEXT
4	PARMMLN	4		LENGTH OF MESSAGE TEXT
8	PARMMSGT	4		TEXT IN 8-BYTE TOKENS
C	PARMNETM	4		USERID OF RSCS NET MACHINE
10	PARMRUSR	4		USERID OF REQUESTING USER
14	PARMRNOD	4		NODEID OF REQUESTING USER
18	PARMPUSR	4		USERID OF PROP
1C	PARMPNOD	4		NODEID OF PROP
20	PARMOUSR	4		USERID OF LOGICAL OPERATOR
24	PARMONOD	4		NODEID OF LOGICAL OPERATOR
28	PARMRTFI	4		CURRENT ROUTING TABLE FILEID
2C	PARMRTPM	4		PARAMETER FROM ROUTING TABLE
30	PARMMTYP	4		MESSAGE TYPE CODE
34	PARMARTN	4		ACTION ROUTINE ADDRESS

DISP	NAME	LEN	KEY	DESCRIPTION
38	PARMEND	4		PARM LIST END INDICATOR

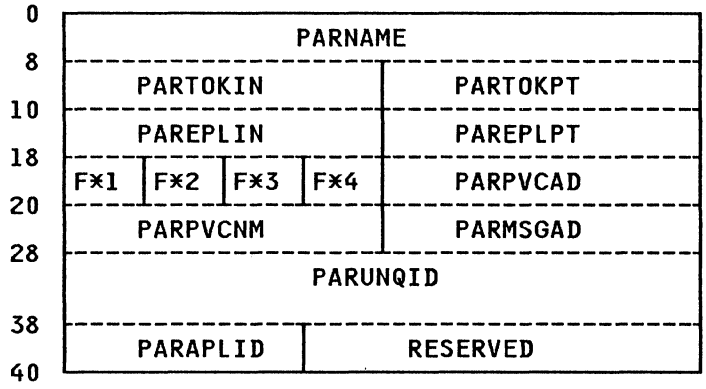
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

PARMARTN	0034 ..	PARMMSGT	0008 ..	PARMOUSR	0020 ..	PARMRTFI	0028 ..
PARMEND	0038 ..	PARMMTYP	0030 ..	PARMPNOD	001C ..	PARMRTPM	002C ..
PARMMLN	0004 ..	PARMNETM	000C ..	PARMPUSR	0018 ..	PARMRUSR	0010 ..
PARMMSG	0000 ..	PARMONOD	0024 ..	PARMRNOD	0014 ..	PARMSIZE	 08

PARSERCB: PARSER CONTROL BLOCK

The PARSERCB contains the following daga areas and addresses for arguments specified on the PARSECMD Macro, and provides back the addresses of the results of the parsing facility.



SIZE

LENGTH OF PARSERCB IN BYTES (PARLENBY) 40
LENGTH OF PARSERCB IN DWORDS (PARLENDW) 8

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PARNAME	8		PARSER ENTRY POINT 'DMSPAR'
8	PARTOKIN	4		INPUT TOKENIZED PLIST ADDRESS
C	PARTOKPT	4		PARSED (TRANSLATED) TOKENIZED PLIST ADDRESS
10	PAREPLIN	4		INPUT EXTENDED PLIST ADDRESS
14	PAREPLPT	4		PARSED (TRANSLATED) EXTENDED PLIST ADDRESS
18	PARPTYPE	1	F*1	PLIST TYPE - HIGH ORDER BYTE OF R1
19	PARTRANS	1	F*2	TRANSLATION FLAG

Values Defined in PARTRANS

80	PARTRYES	TRANSLATION = YES (NATIONAL LANG)
40	PARTRNO	TRANSLATION = NO (SYSTEM LANG)
20	PARTRSAM	TRANSLATION = SAME (SYSTEM = NATIONAL)
10	PARSFLG	PARSFLG SPECIFIED

1A	PARMSG	1	F*3	MESSAGE DISPOSITION

Values Defined in PARMSG

00	PARMSGER	MESSAGE DISPOSITION ERRMSG
04	PARMSGXC	MESSAGE DISPOSITION EXECOMM
02	PARMSGNO	MESSAGE DISPOSITION NONE

1B		1	F*4	RESERVED
1C	PARPVCAD	4		PVC TABLE ADDRESS

DISP	NAME	LEN	KEY	DESCRIPTION
20	PARPVCNM	4		NUMBER OF ENTRIES IN PVC TABLE
24	PARMSGAD	4		MESSAGE BUFFER ADDRESS
28	PARUNQID	16		SYNTAX DEFINITION UNIQUE ID
38	PARAPLID	3		APPLICATION IDENTIFIER

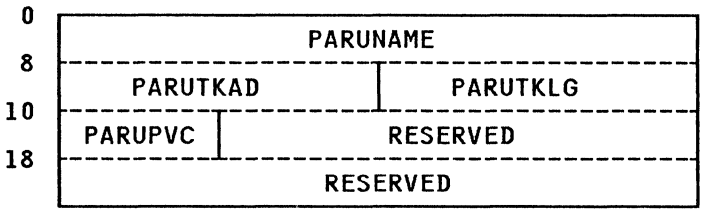
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

PARAPLID	0038	..	PARMSG	001A	..	PARPTYPE	0018	..	PARTRANS	0019	..
PAREPLIN	0010	..	PARMSGAD	0024	..	PARPVCAD	001C	..	PARTRNO	0019	40
PAREPLPT	0014	..	PARMSGER	001A	00	PARPVCNM	0020	..	PARTRSAM	0019	20
PARINVMD	001B	80	PARMSGNO	001A	02	PARSFLG	0019	10	PARTRYES	0019	80
PARLENBY	....	40	PARMSGXC	001A	04	PARTOKIN	0008	..	PARUNQID	0028	..
PARLENDW	....	8	PARNAME	0000	..	PARTOKPT	000C	..			

PARSERUF: PARSER USER FUNCTION PARAMETER BLOCK

The PARSERUF generates a mapping for the User Token Validation Function Parameter Control Block.



SIZE

Length in bytes of this block (PARUSZBY) 20
Length in DWORDS of this block (PARUSZDW) 4

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PARUNAME	8		Name of function
8	PARUTKAD	4		Address of token
C	PARUTKLG	4		Length of token
10	PARUPVC	1		User Function Validation Code
18	PARUFNCE	8		RESERVED

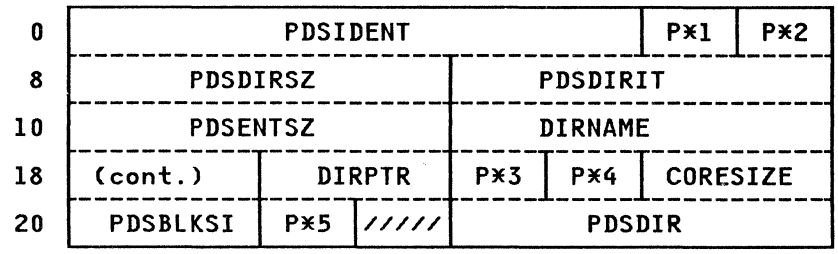
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
PARUFNCE 0018  .. | PARUPVC  0010  .. | PARUSZBY ....  20 | PARUSZDW ....   4
PARUNAME 0000  ..                                          | PARUTKAD 0008  ..
                                                           | PARUTKLG 000C  ..
```

PDSSECT: DIRECTORY TABLE FOR BPAM SIMULATION

PDSSECT describes the fields of the in-storage directory that is used in OS simulation of BPAM. The in-storage directory is built dynamically by DMSSVT from CMS free storage. PDSSECT is invoked via the PDSSECT macro.



SIZE

MACLIB/PDS HEADER SIZE IN BYTES (PDSHDRSZ) 10
PDSSECT HEADER LENGTH IN BYTES (PDSLEN) 24

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PDSIDENT	6		MACLIB/PDS IDENTIFIER
D7	PDSFNEW			CHECK PDSIDENT+3, OLD VS NEW
6	PDSFLG1	1	P*1	MACLIB/PDS FLAG1
5B	PDSTEMPF			PDS DIRECTORY IS IN $PDSTEMP FILE
7	PDSFLG2	1	P*2	MACLIB/PDS FLAG2
8	PDSDIRSZ	4		MACLIB/PDS DIRECTORY SIZE
C	PDSDIRIT	4		MACLIB/PDS DIRECTORY ITEM NUMBER
10	PDSENTSZ	4		PDS ENTRY SIZE
14	DIRNAME	6		MACLIB IDENTIFIER
1A	DIRPTR	2		ITEM POINTER TO START OF DIRECTORY
1C	TEMPBYTE	1	P*3	IF $, THEN PDS IS IN $PDSTEMP FILE
1D	NEWBLKS	1	P*4	NUMBER NEW BLKS ADDED TO PDS BY STOW
1E	CORESIZE	2		SIZE OF DICTIONARY IN BYTES
20	PDSBLKSI	2		BLOCKSIZE OF DICTIONARY
22	CHNGBYTE	1	P*5	INDICATES UPDATES TO DICTIONARY
23		1		RESERVED
24	PDSDIR	0		START OF IN CORE DICTIONARY

CROSS REFERENCE (Name Disp Value)

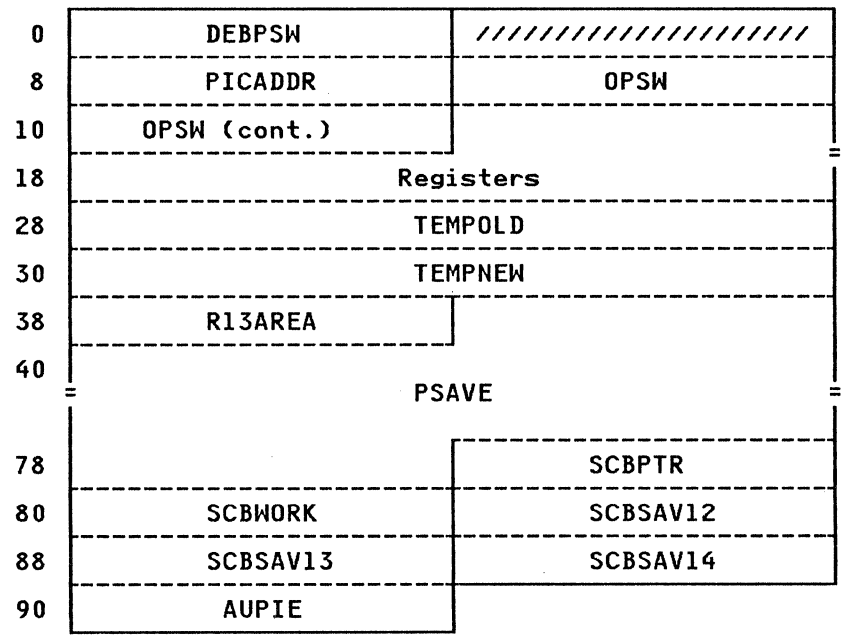
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

CHNGBYTE	0022 ..	PDSBLKSI	0020 ..	PDSFLG1	0006 ..	PDSIDENT	0000 ..
CORESIZE	001E ..	PDSDIR	0024 ..	PDSFLG2	0007 ..	PDSLEN	 24
DIRNAME	0014 ..	PDSDIRIT	000C ..	PDSFNEW	0000 D7	PDSTEMPF	0006 5B
DIRPTR	001A ..	PDSDIRSZ	0008 ..	PDSHDRSZ	 10	TEMPBYTE	001C ..
NEWBLKS	001D ..	PDSENTSZ	0010 ..				

PGMSECT: PROGRAM INTERRUPT WORK AREA

PGMSECT describes the fields used by DMSITP for saving registers, old PSW, and other data for handling program interrupts.

The PGMSECT CSECT is pointed to by the APGMSECT field in NUCON. PGMSECT is invoked by the PGMSECT macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	DEBPSW	4		POINT TO DEBUG
4		4		RESERVED
8	PIE	32		***PROGRAM INTERRUPT ELEMENT***
8	PICADDR	4		PICA ADDRESS FROM RECENT "SPIE"
C	OPSW	8		OLD PSW AFTER PROGRAM INTERRUPT
14		20		REGS: R14, R15, R0, R1, R2 ***END PROGRAM INTERRUPT ELEMENT***
28	TEMPOLD	8		WORK AREA
30	TEMPNEW	8		WORK AREA
38	R13AREA	4		SAVED R13
3C	PSAVE	64		REGS SAVED AT INTERRUPT TIME

DISP	NAME	LEN	KEY	DESCRIPTION
7C	SCBPTR	4		POINTER TO FIRST STAE CONTROL BLOCK
	Values Defined in SCBPTR			
	80 STAEBIT			
	40 STAIBIT			
	20 RETRYBIT			
80	SCBWORK	4		ADDRESS OF WORK AREA FOR STAE EXIT ROUTINE
84	SCBSAV12	4		ADDRESS OF REG 12 SAVE AREA FOR DMSSAB
88	SCBSAV13	4		ADDRESS OF REG 13 SAVE AREA FOR DMSSAB
8C	SCBSAV14	4		ADDRESS OF REG 14 SAVE AREA FOR DMSSAB
90	AUPIE	4		ADDRESS OF USER'S PIE, IN SPIE EXIT

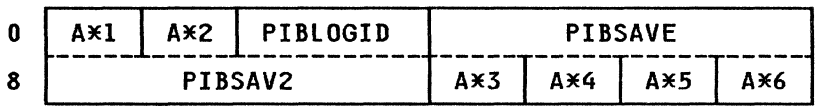
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

AUPIE	0090	..	PSAVE	003C	..	SCBSAV12	0084	..	STAEBIT	007C	80
DEBPSW	0000	..	RETRYBIT	007C	20	SCBSAV13	0088	..	STAIBIT	007C	40
OPSW	000C	..	R13AREA	0038	..	SCBSAV14	008C	..	TEMPNEW	0030	..
PICADDR	0008	..	SCBPTR	007C	..	SCBWORK	0080	..	TEMPOLD	0028	..
PIE	0008	..									

PIBADR: PROGRAM INFORMATION BLOCK

PIBADR contains a save area address and interrupt information. PIBADR is invoked by the PIBTAB macro and is often referred to by this macro name. The PIBPT field in the BGCOM block points to the PIBTAB CSECT.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PIBFLG	1	A*1	FLAGS
1	PIBCNCL	1	A*2	CANCEL CODE
2	PIBLOGID	2		SYSLOG ID
4	PIBSAVE	4		ADDRESS OF SAVE AREA
8	ARFLG			SAVE AREA ADDRESS
8	PIBSAV2	4		ADDRESS OF SYSTEM SAVE AREA
C	PIBPUBAS	1	A*3	PUB ASSIGN FLAGS
D	PIBLUBID	1	A*4	LUB NUMBER OF FIRST PROBLEM PROGRAM LUB
E	PIBLUBNO	1	A*5	NUMBER OF LUBS
F	PIBFLG2	1	A*6	MORE FLAGS
PIBTAB EXTENSION				
0	PIBCOMRA	2		COMMUNICATIONS REGION ADDRESS
2	SYSLUBX	2		SYSTEM CLASS LUB INDEX
4	PIBMTID	2		TID OF MAINTASK
6		2		RESERVED
8	APCB	4		PCB POINTER
C	PIBPIK	2		PIK OF PARTITION
E		2		RESERVED

CROSS REFERENCE (Name Disp Value)

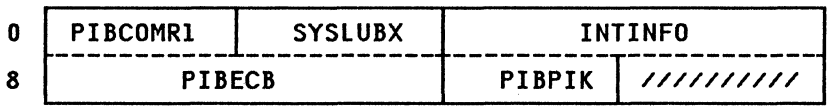
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

APCB	0008 ..	PIBFLG	0000 ..	PIBLUBNO	000E ..	PIBSAVE	0004 ..
ARFLG	0008 ..	PIBFLG2	000F ..	PIBMTID	0004 ..	PIBSAV2	0008 ..
PIBCNCL	0001 ..	PIBLOGID	0002 ..	PIBPIK	000C ..	SYSLUBX	0002 ..
PIBCOMRA	0000 ..	PIBLUBID	000D ..	PIBPUBAS	000C ..		

PIB2TAB: PROGRAM INFORMATION BLOCK EXTENSION

PIB2TAB describes the entries in the PIB2TAB block, which is an extension of the PIBTAB block. For each PIB table entry, an entry exists in the PIB table extension block (PIB2TAB). PIB2TAB is invoked via the PIB2TAB macro.

The PIB2PTR field in the BGCOM block points to the PIB2TAB block.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PIBCOMR1	2		ADDRESS OF COMMUNICATION REGION
2	SYSLUBX	2		SYSTEM LUB INDEX
4	INTINFO	4		USED FOR INTERRUPTION CODE
7	SVCIC			SVC INTERRUPT CODE
8	PIBECB	4		ADDRESS OF TERMINATION ECB, IF ANY
C	PIBPIK	2		PIK
E		2		RESERVED

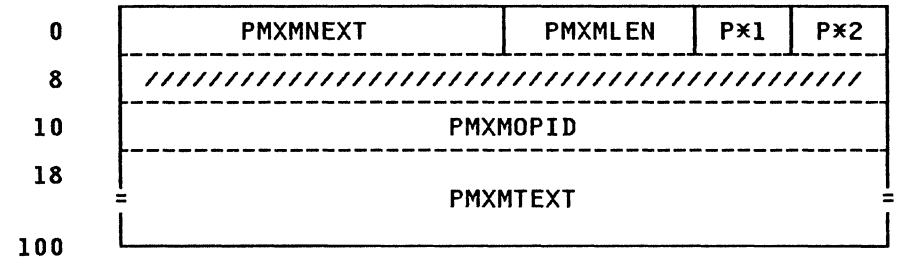
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
INTINFO  0004 ..    PIBECB   0008 ..    PIBPIK   000C ..    SVCIC    0007 ..
PIBCOMR1 0000 ..                                            SYSLUBX  0002 ..
```

PMXMBLOK: PMX MESSAGE BLOCK

PMXMBLOK is used as a template to describe a message targeted for the PMX. PMXMBLOK is found in PROP copy.



SIZE

PMXMBLOK PMX MESSAGE BLOK LENGTH IN BYTES (PMXMBLEN) 100
PMX MESSAGE BLOCK SIZE IN DOUBLEWORDS (PMXMSIZE) 20

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PMXMNEXT	4		ADDRESS OF NEXT MSG BLOK
4	PMXMLEN	2		LENGTH OF MESSAGE (OPID + TEXT)
6	PMXMFLAG	1	P*1	PMX MSG BLOK FLAG BYTE
	Values Defined in PMXMFLAG			
80	PMXMRESP			INDICATES MSG IS A RESPONSE
7	PMXMTYPE	1	P*2	MESSAGE TYPE
8		8		RESERVED
10	PMXMMSG	240		PMX MESSAGE FIELD
10	PMXMOPID	8		TARGET NCCF OPERATOR ID
18	PMXMTEXT	232		MESSAGE TEXT

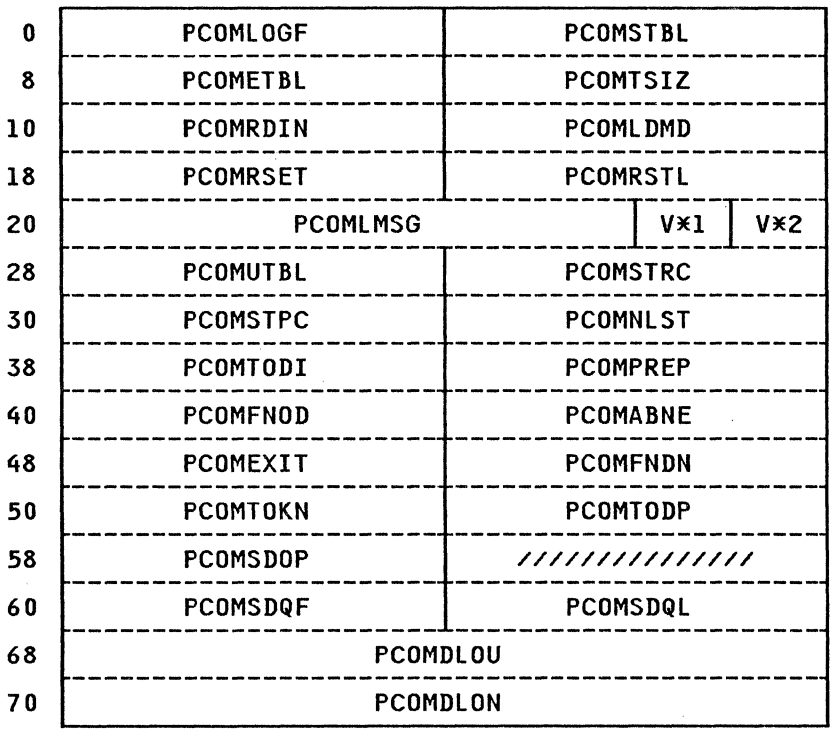
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

PMXMBLEN .... **	PMXMLEN 0004	PMXMRESP 0006 80	PMXMTEXT 0018
PMXMNEXT 0000	PMXMMSG 0010	PMXMSIZE 20	PMXMTYPE 0007
PMXMFLAG 0006	PMXMOPID 0010		

PROPCOM: PROP COMMUNICATION AREA

PROPCOM describes the contents of the area defined in DMSPOP to allow the communication of flags and other data between the main programmable operator facility module, DMSPOP, and the action routine module, DMSPOR. PROPCOM is found in PROP copy.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PCOMLOGF	4		ADDRESS OF LOG FILE FSCB
4	PCOMSTBL	4		START OF ROUTING TABLE
8	PCOMETBL	4		END OF ROUTING TABLE
C	PCOMTSIZ	4		ROUTING TABLE SIZE
10	PCOMRDIN	4		ADDRESS OF READIN ROUTINE
14	PCOMLDMD	4		ADDRESS OF LOADNUCX ROUTINE
18	PCOMRSET	4		ADDRESS OF CP SET COMMANDS TO RESET
1C	PCOMRSTL	4		LENGTH OF CP SET COMMANDS TO RESET
20	PCOMLMSG	6		MESSAGE FORMAT FOR LOCAL MESSAGES

DISP	NAME	LEN	KEY	DESCRIPTION
26	PCOMFLAG	1	V*1	PROP FLAGS

Values Defined in PCOMFLAG

80	PCOMSTOP	STOP THE PROP APPLICATION
40	PCOMKILL	IMMEDIATE STOP
20	PCOMLOG	INDICATES LOGGING IS ON
10	PCOMABNA	INDICATES ABEND IS ACT RTN
08	PCOMLOGA	INDICATES LOGGING "ALL"
04	PCOMSPHC	HOST CHECKING SUSPENDED FLAG
02	PCOMPMRS	PROP/PMX CONNECT SEVERED FLAG
01		RESERVED

27	PCOMFLG2	1	V*2	SECOND PROP FLAG BYTE

Values Defined in PCOMFLG2

80	PCOMPMCN	PMX CONNECTION ESTABLISHED
40	PCOMPMSV	PMX SEVERED CONNECTION
20		RESERVED
10		RESERVED
08		RESERVED
04		RESERVED
02		RESERVED
01		RESERVED

28	PCOMUTBL	4		ADDRESS OF START OF USER'S PART OF THE ROUTING TABLE
2C	PCOMSTRC	4		ADDRESS OF STARTCHK ROUTINE
30	PCOMSTPC	4		ADDRESS OF STOPCHK ROUTINE
34	PCOMNLST	4		ANCHOR ADDRESS FOR NODE LIST
38	PCOMTODI	4		ADDRESS OF TODISK ROUTINE
3C	PCOMPREP	4		ADDRESS OF BUFPREP ROUTINE
40	PCOMFNOD	4		ADDRESS OF FRETNODE ROUTINE
44	PCOMABNE	4		ADDRESS OF ABEND EXIT
48	PCOMEXIT	4		ADDRESS OF CALLEXIT ROUTINE
4C	PCOMFNDN	4		ADDRESS OF FINDNODE ROUTINE
50	PCOMTOKN	4		ADDRESS OF TOKENIZE ROUTINE
54	PCOMTODP	4		PARMLIST FOR SPECIAL LOGGING
58	PCOMTODP	4		ADDRESS OF SDLGLOPR ROUTINE
5C		4		RESERVED
60	PCOMSDQF	4		ADDRESS OF FIRST IN SEND QUEUE
64	PCOMSDQL	4		ADDRESS OF LAST IN SEND QUEUE
68	PCOMDLOU	8		DEFAULT LGLOPR USERID
70	PCOMDLON	8		DEFAULT LGLOPR NODEID

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

PCOMABNA 0026 10	PCOMKILL 0026 40	PCOMPMSV 0027 40	PCOMSTBL 0004 ..
PCOMABNE 0044 ..	PCOMLDMD 0014 ..	PCOMPREP 003C ..	PCOMSTOP 0026 80
PCOMDLON 0070 ..	PCOMLMSG 0020 ..	PCOMRDIN 0010 ..	PCOMSTPC 0030 ..
PCOMDLOU 0068 ..	PCOMLOG 0026 20	PCOMSDOP 0058 ..	PCOMSTRC 002C ..
PCOMETBL 0008 ..	PCOMLOGA 0026 8	PCOMSDQF 0060 ..	PCOMTODI 0038 ..
PCOMEXIT 0048 ..	PCOMLOGF 0000 ..	PCOMSDQL 0064 ..	PCOMTODP 0054 ..
PCOMFLAG 0026 ..	PCOMNLST 0034 ..	PCOMSPHC 0026 04	PCOMTOKN 0050 ..
PCOMFLG2 0027 ..	PCOMPMCN 0027 80	PCOMRSET 0018 ..	PCOMTSIZ 000C ..
PCOMFNDN 004C ..	PCOMPMRS 0026 02	PCOMRSTL 001C ..	PCOMUTBL 0028 ..
PCOMFNOD 0040 ..			

PROPTAB: ROUTING TABLE FILE ENTRY

PROPTAB is used as a template to describe an entry (i.e. a record) in the programmable operator facility routing table file. PROPTAB is found in PROP copy.

SIZE

LENGTH OF AN ENTRY IN FILE (PROPLEN) 48

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	TEXT	25		MESSAGE COMPARISON TEXT
19		1		SPACER
1A	SCOL	3		STARTING COLUMN FOR MESSAGE SCAN
1D		1		SPACER
1E	ECOL	3		ENDING COLUMN FOR MESSAGE SCAN
21		1		SPACER
22	MSGT	2		IUCV MESSAGE TYPE
24		1		SPACER
25	USERID	8		AUTHORIZED USER'S USERID
2D		1		SPACER
2E	NODEID	8		AUTHORIZED USER'S NODEID
36		1		SPACER
37	ACTION	8		NAME OF ACTION ROUTINE TO INVOKE
3F		1		SPACER
40	ACTRPARM	8		PARAMETER TO ACTION ROUTINE

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

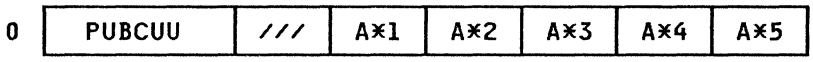
```
ACTION   0037 ..    MSGT     0022 ..    PROPLEN  .... 48    TEXT     0000 ..
ACTRPARM 0040 ..    NODEID   002E ..    SCOL     001A ..    USERID   0025 ..
ECOL     001E ..
```

PUBADR: PHYSICAL UNIT BLOCK TABLE

PUBADR defines the fields of a physical unit block table as used by CMS and/or VSE routines. Both DSECTs define the same storage.

- For use by the CMS Routines (MAPPUB macro)

The simulated PUBADR DSECT has eighteen 8-byte entries, one for each device supported by CMS. The simulated PUBADR DSECT is invoked by the MAPPUB macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PUBCUU	2		CHANNEL AND DEVICE NUMBER
2		1		RESERVED
3	PUBDSKM	1	A*1	DISK MODE IF ASSIGNED DASD
4	PUBDEVT	1	A*2	DEVICE TYPE CODE
5	PUBTAPM1	1	A*3	CMS TAPE SET MODE ATTRIBUTES
6	PUBTAPM2	1	A*4	DOS TAPE SET MODE ATTRIBUTES
7	PUBTAP7	1	A*5	SEVEN TRACK INDICATOR

CROSS REFERENCE (Name Disp Value)

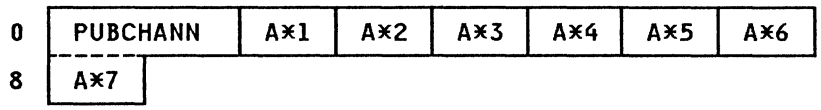
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
PUBADR   0000 ..    PUBDEVT  0004 ..    PUBDSKM  0003       PUBTAPM1 0005 ..
PUBCUU   0000 ..                                            PUBTAPM2 0006 ..
                                                            PUBTAP7  0007 ..
```

CROSS REFERENCE (Name Disp Value)

- For use by the DOS/VS Routines (PUBTAB macro)

The PUBADR DSECT is invoked by the PUBTAB macro. The address of PUBTAB is at displacement X'40' of BGCOM.



SIZE

PUB TABLE LENGTH IN BYTES (PUBWIT) 09

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PUBCHANN	2		CHANNEL AND DEVICE NUMBER
2	PUBCHQPT	1	A*1	CHQ. NUMBER OF FIRST REQUEST FOR PUB
3	PUBERR	1	A*2	ERROR RETRY COUNTER OR TEB POINTER
4	PUBDEVTY	1	A*3	DEVICE TYPE CODE
5	PUBOPTN	1	A*4	SET MODE COMMAND OR OTHER OPTIONS
6	PUBCSFLG	1	A*5	CHANNEL SCHEDULER FLAGS
7	PUBJCFLG	1	A*6	JOB CONTROL FLAGS
8	NEXTPUB	1	A*7	FIRST BYTE OF NEXT PUB ENTRY

Values Defined in NEXTPUB

08	PUBPTR	POINTER TO ORIGINAL PUB

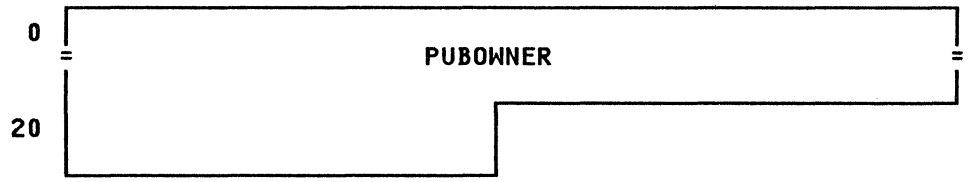
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
NEXTPUB  0008 ..    PUBCSFLG 0006 ..    PUBJCFLG 0007 ..    PUBPTR   0008 08
PUBCHANN 0000 ..    PUBDEVTY 0004 ..    PUBOPTN  0005 ..    PUBWIT   .... 09
PUBCHQPT 0002 ..    PUBERR   0003 ..
```

PUBOWNER: PHYSICAL UNIT BLOCK OWNERSHIP TABLE

PUBOWNER contains a 2-byte entry for each entry in the PUB table. For CMS/DOS, there are eighteen 2-byte entries. The address of the PUBOWNER table is in the SYSCOM block in the DOSCON CSECT of NUCON.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PUBOWNER	68		PUB OWNER

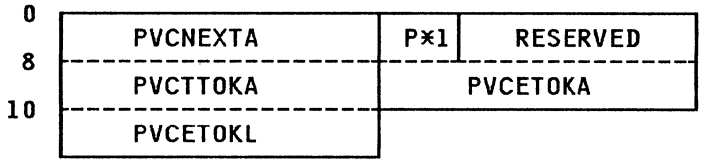
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

PUBOWNER 0000 ..

PVCENTRY: PARSER VALIDATION CODE ENTRY

The Parser Validation Code Table is composed of PARPVCNM contiguous Parser Validation Code Entries, one for each token in the Plist.



SIZE

LENGTH OF PVCENTRY IN BYTES (PVCLENBY) 14

NOTE: VALUES X'19'-X'7E' IN PVCCODE ARE RESERVED FOR IBM USE.
VALUES X'80'-X'FF' IN PVCCODE ARE RESERVED FOR CUSTOMER USE.

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	PVCNEXTA	4		NEXT PVC ENTRY OR 0 IF LAST
4	PVCCODE	1	P*1	PARSER VALIDATION CODE
5		3		RESERVED
8	PVCTTOKA	4		TOKENIZED TOKEN ADDRESS
C	PVCETOKA	4		EXTENDED TOKEN ADDRESS

DISP	NAME	LEN	KEY	DESCRIPTION
10	PVCETOKL	4		EXTENDED TOKEN LENGTH

Values Defined in PVCCODE

01	PVCCNAME	COMMAND	COMMAND NAME
02	PVCKWORD	KEYWORD	KEYWORD
03	PVCOPTST	OPTSTART	OPTION START (
04	PVCOPTEN	OPTEND	OPTION END)
05	PVCCOMMT	COMMENT	COMMENT
06	PVCALNUM	ALPHANUM	ALPHANUMERIC STRING
07	PVCCHAR	CHAR	A SINGLE CHARACTER
08	PVCCUU	CUU	DEVICE ADDRESS:
09	PVCFN	FN	FILENAME
0A	PVCFT	FT	FILETYPE
0B	PVCEFN	EFN	FILENAME WITH '*'
0C	PVCEFT	EFT	FILETYPE WITH '*'
0D	PVCEXECN	EXECNAME	EXECNAME
0E	PVCEXECT	EXECTYPE	EXECTYPE
0F	PVCFM	FM	FILEMODE
10	PVCHEX	HEX	HEXADECIMAL NUMBER
11	PVCINT	INTEGER	INTEGER:
12	PVCNINT	NINTEGER	NEGATIVE INTEGER:
13	PVCPINT	PINTEGER	POSITIVE INTEGER:
14	PVCMODE	MODE	ALPHABETIC CHAR
15	PVCSTRIN	STRING	ANY CHARACTER
16	PVCTEXT	TEXT	ANY STRING
17	PVCDIGIT	DIGITS	ANY UNSIGNED INTEGER
18	PVCAPPID	APPLID	APPLICATION IDENTIFIER
19	PVCARBMD	ARBMODIF	
7F	PVCINVLD	INVALID	UNCONDITIONALLY INVALID

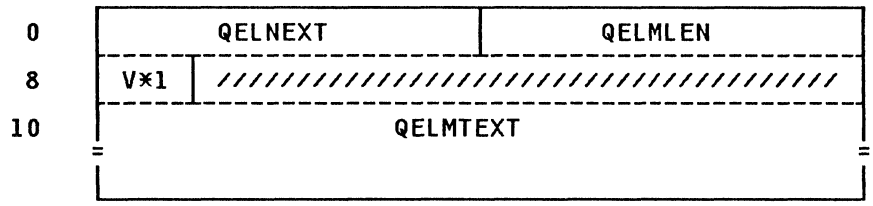
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

PVCNEXTA	0000	..	PVCDIGIT	0004	17	PVCFN	0004	09	PVCNINT	0004	12
PVCALNUM	0004	06	PVCEFN	0004	0B	PVCFT	0004	0A	PVCOPTEN	0004	04
PVCAPPID	0004	18	PVCEFT	0004	0C	PVCHEX	0004	10	PVCOPTST	0004	03
PVCCHAR	0004	07	PVCETOKA	000C	..	PVCINT	0004	11	PVCPINT	0004	13
PVCCNAME	0004	01	PVCETOKL	0010	..	PVCINVLD	0004	7F	PVCSTRIN	0004	15
PVCCODE	0004	..	PVCEXECN	0004	0D	PVCKWORD	0004	02	PVCTEXT	0004	16
PVCCOMMT	0004	05	PVCEXECT	0004	0E	PVCLENBY	....	10	PVCTTOKA	0008	..
PVCCUU	0004	08	PVCFM	0004	0F	PVCMODE	0004	14			

QEL: PROP QUEUED MESSAGE ELEMENT MAPPING

QEL is used as a template to describe an element in the queue that the programmable operator facility keeps in its virtual storage. QEL is found in PROP copy.



SIZE

Q ELEMENT SIZE IN DOUBLEWORDS (QELSIZE) 20

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	QELNEXT	4		ADDRESS OF NEXT Q ELEMENT
4	QELMLEN	4		LENGTH OF MESSAGE
8	QELMTYPE	1	V*1	MESSAGE TYPE CODE
9		7		RESERVED
10	QELMTEXT	240		MESSAGE TEXT (IUCV FORMAT)

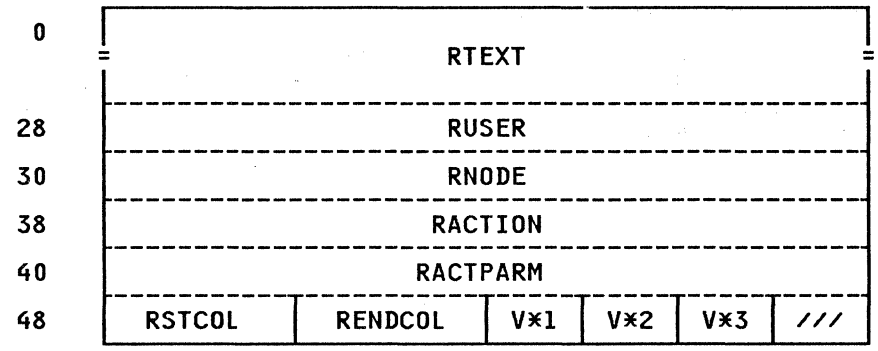
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
QELMLEN  0004 ..    QELMTYPE 0008 ..    QELNEXT  0000 ..
QELMTEXT 0010 ..                        QELSIZE  .... 20
```

RTDSECT: INTERNAL ROUTING TABLE ENTRY

RTDSECT is used as a template to describe an entry in the programmable operator facility internal routing table. RTDSECT is found in PROP copy.



SIZE

LENGTH OF A ROUTING TABLE ENTRY (ROUTLEN) 40

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	RTEXT	40		MESSAGE COMPARISON TEXT
28	RUSER	8		AUTHORIZED USER'S ID
30	RNODE	8		AUTHORIZED USER'S NODE
38	RACTION	8		NAME OF ACTION ROUTINE
38	RACTIONB	4		ADDRESS OF INTERNAL ACTION ROUTINE
40	RACTPARM	8		PARAMETER TO ACTION ROUTINE
48	RSTRCOL	2		STARTING COLUMN FOR MESSAGE SCAN
4A	RENDCOL	2		ENDING COLUMN FOR MESSAGE SCAN
4C	RTYPE	1	V*1	IUCV MESSAGE TYPE
4D	RNBRSUB	1	V*2	NUMBER OF TEXT SUBFIELDS
4E	RACTFLAG	1	V*3	ACTION ROUTINE FLAGS

Values Defined in RACTFLAG

80	RACTBAL	BALR TO ADDRESS IN RACTION FIELD
40	RACTEXEC	THIS ACTION ROUTINE IS AN EXEC
20		RESERVED
10		RESERVED
08		RESERVED
04		RESERVED
02		RESERVED
01		RESERVED

DISP	NAME	LEN	KEY	DESCRIPTION
4F		1		RESERVED

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

RACTBAL	004E	80	RACTIONB	0038	..	RNBRSUB	004D	..	RTEXT	0000	..
RACTEXEC	004E	40	RACTPARM	0040	..	ROUTLEN	....	50	RTYPE	004C	..
RACTFLAG	004E	..	RENDCOL	004A	..	RSTRCOL	0048	..	RUSER	0028	..
RACTION	0038	..	RNODE	0030	..						

RTXSBFLD: ROUTING TEXT SUB FIELD

RTXSBFLD is used in combination with RTDSECT to map over the RTEXT field. RTXSBFLD is invoked by itself.

SIZE

LENGTH OF SUBFIELD INFORMATION (RTXSBL) 02

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	RTXSBLEN	1	V*1	LENGTH OF SUBFIELD TEXT
1	RTXSBFLG	1	V*2	TEXT SUBFIELD FLAGS

Values Defined in RTXSBFLG

80	RTXARBSC	SCANNING FOR ARB-CHAR SEPARATION
40	RTXNOTSC	SCANNING FOR NOT-SYMBOL

2	RTXSBTXT	1		SUBFIELD TEXT

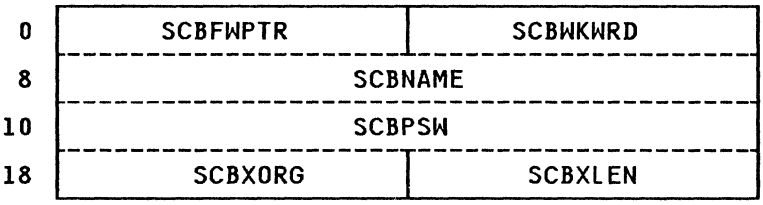
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
RTXARBSC 0001 80    RTXSBFLG 0001 ..    RTXSBL   .... 02    RTXSBLEN 0000 ..
RTXNOTSC 0001 40                                            RTXSBTXT 0002 ..
```

SCBLOCK: SUBCOMMAND CONTROL BLOCK

SCBLOCK describes the dynamic entry point for the SUBCOM function and is dynamically allocated from free storage by DMSITS. SCBLOCK is invoked via the SCBLOCK macro.



SIZE

LENGTH IN DOUBLEWORDS (SCBLOCKD) 04
LENGTH IN BYTES (SCBLOCKB) 20

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	SCBFWPTR	4		CHAIN POINTER TO NEXT SCBLOCK
4	SCBWKWRD	4		AVAILABLE FOR USER INFORMATION
8	SCBNAME	8		NAME OF SUBCOMMAND ENVIRONMENT
10	SCBPSW	8		STARTING PSW FOR SUBCOMMAND
12	SCBSFLAG	1		SYSTEM FLAG BYTE
80	SCBSFSYS			DENOTES "SYSTEM" ROUTINE -- WILL NOT BE AUTOMATICALLY DELETED DURING ABEND PROCESSING
40	SCBSFSER			DENOTES "SERVICE" ROUTINE -- WILL BE CALLED WITH "PURGE" ARGUMENT DURING ABEND PROCESSING
20	SCBSFABN			USED DURING ABEND PROCESSING
20	SCBSFINT			USED DURING END OF COMMAND PROCESSING
10	SCBSFEND			DENOTES 'END OF COMMAND' ROUTINE
04	SCBSFIMM			DENOTES THAT THIS NUCLEUS EXTENSION CAN ALSO BE CALLED AS AN IMMEDIATE COMMAND
02	SCBSFX			DENOTES A LOOK-ASIDE ENTRY POINTING TO A REAL CMS NUCLEUS ROUTINE
01	SCBSHIDE			USED TO HIDE A NUCLEUS EXTENSION TEMPORARILY
13	SCBUFLAG	1		USER FLAG BYTE
14	SCBENTR	4		ENTRY POINT ADDRESS IN PSW
18	SCBXORG	4		ADDRESS WHERE NUCLEUS EXTENSION WAS LOADED IN FREE STORAGE
1C	SCBXLEN	4		LENGTH IN BYTES OF NUCLEUS EXTENSION. MAY BE ZERO FOR SECONDARY ENTRY POINTS

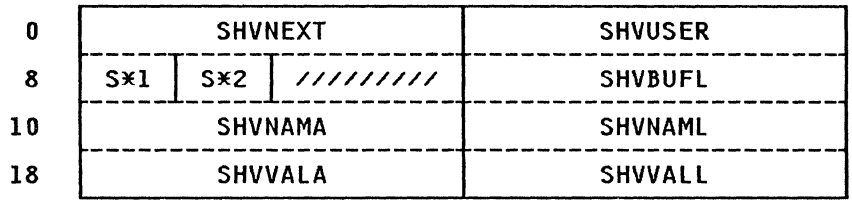
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

SCBENTR	0014 ..	SCBPSW	0010 ..	SCBSFLAG	0012 ..	SCBUFLAG	0013 ..
SCBFWPTR	0000 ..	SCBSFABN	0012 20	SCBSFSER	0012 40	SCBWKWRD	0004 ..
SCBLOCKB	 20	SCBSFEND	0012 10	SCBSFSYS	0012 80	SCBXLEN	001C ..
SCBLOCKD	 04	SCBSFIMM	0012 04	SCBSFX	0012 02	SCBXORG	0018 ..
SCBNAME	0008 ..	SCBSFINT	0012 20	SCBSHIDE	0012 01		

SHVBLOCK: LAYOUT OF SHARED-VARIABLE ACCESS CONTROL BLOCK

The control blocks for accessing shared variables are chained as a list terminated by a null pointer. The list is addressed via the 'private interface' plist in a subcommand call to a public variable-sharing environment (e.g. as set up by the EXEC 2 interpreter).



SIZE

SHVBLOK LENGTH IN BYTES (SHVBLEN) 20

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	SHVNEXT	4		CHAIN POINTER (0 IF LAST)
4	SHVUSER	4		NOT USED, AVAILABLE FOR PRIVATE USE EXCEPT DURING 'FETCH NEXT'
8	SHVCODE	1	S*1	INDIVIDUAL FUNCTION CODE
	Function codes defined in SHVCODE			
	C6 SHVFETCH			COPY VALUE OF SHARED VAR TO BUFFER
	E2 SHVSTORE			STORE GIVEN VALUE IN SHARED VARIABLE
	THE FOLLOWING FUNCTION CODES ONLY APPLY TO THE SYSTEM PRODUCT INTERPRETER			
	84 SHVSYDRO			SYMBOLIC NAME DROP VARIABLE (LOWERCASE D)
	86 SHVSYFET			SYMBOLIC NAME FETCH VARIABLE (LOWERCASE F)
	A2 SHVSYSET			SYMBOLIC NAME SET VARIABLE (LOWERCASE S)
	C4 SHVDROPV			DROP VARIABLE
	D5 SHVNEXTV			FETCH 'NEXT' VARIABLE
	D7 SHVPRIV			FETCH PRIVATE INFORMATION
9	SHVRET	1	S*2	INDIVIDUAL RETURN CODE FLAG
	Return code flags in SHVRET			
	00 SHVCLEAN			EXECUTION WAS OK
	01 SHVNEWV			VARIABLE DID NOT EXIST (SP INTERPRETER ONLY)
	02 SHVLVAR			LAST VARIABLE TRANSFERRED (FOR N)
	04 SHVTRUNC			TRUNCATION OCCURRED FOR 'FETCH'
	08 SHVBADN			INVALID VARIABLE NAME (E.G. TOO LONG)
	10 SHVBADV			INVALID VARIABLE VALUE (E.G. TOO LONG)
	80 SHVBADF			INVALID FUNCTION CODE (SHVCODE)
A		2		RESERVED, SHOULD BE ZERO
C	SHVBUFL	4		LENGTH OF 'FETCH' VALUE BUFFER

DISP	NAME	LEN	KEY	DESCRIPTION
10	SHVNAMA	4		ADDRESS OF PUBLIC VARIABLE NAME
14	SHVNAML	4		LENGTH OF PUBLIC VARIABLE NAME
18	SHVVALA	4		ADDRESS OF VALUE BUFFER (0 IF NONE)
1C	SHVVALL	4		LENGTH OF VALUE (SET BY 'FETCH')

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

SHVBADF	0009	80	SHVDROPV	....	C4	SHVNEXT	0000	..	SHVSYFET	....	86
SHVBADN	0009	08	SHVFETCH	0008	C6	SHVNEXTV	0008	D5	SHVSYSET	....	A2
SHVBADV	0009	10	SHVLVAR	0009	02	SHVPRIV	0008	D7	SHVTRUNC	0009	04
SHVBLEN	....	20	SHVNAMA	0010	..	SHVRET	0009	..	SHVUSER	0004	..
SHVBUFL	000C	..	SHVNAML	0014	..	SHVSTORE	....	E2	SHVVALA	0018	..
SHVCLEAN	0009	00	SHVNEWV	0009	01	SHVSYDRO	....	84	SHVVALL	001C	..
SHVCODE	0008	..									

SSAVE: SYSTEM SAVE AREA

SSAVE is used by DMSITS to save the value of the SVC old PSW, the caller's registers, and other necessary control information required to process the SVC and return to the caller. Since SVC calls can be nested, several of these save areas can exist at one time. The system save area is dynamically allocated in protected free storage. SSAVE is invoked via the SVCSAVE macro.

0	S*1	S*2	CODE	CALLER
8	CALLEE			
10	OLDPSW			
18	NRMRET			ERRET
20	EGPR0			EGPR1
28	EGPR2			EGPR3
30	EGPR4			EGPR5
38	EGPR6			EGPR7
40	EGPR8			EGPR9
48	EGPR10			EGPR11
50	EGPR12			EGPR13
58	EGPR14			EGPR15
60	EFPR0			
68	EFPR2			
70	EFPR4			
78	EFPR6			
80	CHKWRD1			SSAVENXT
88	SSAVEPRV			USAVEPTR
90	OSTEMP		S*3	KEYS
98	KEYS (cont.)			XGPR0
A0	XGPR1			XGPR15
A8	XCOUNT			CHKWRD2
B0	SSAPSDP2		S*4	RESERVED

SIZE

SYSTEM SAVE AREA SIZE IN DOUBLEWORDS (SSAVESZ) 17
MAXIMUM NUMBER OF KEYS IN STACK (KEYMAX) 07

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	OVIND	1	S*1	OVERRIDE INDICATOR: 0,1,2,3
1	TYPFLAG	1	S*2	SVC TYPE FLAG BYTE

Values Defined in TYPFLAG

80	TPFERT	ERROR RETURN DESIRED
40	TPFNS	NO SAVE AREA ALLOCATED
20	TPFR01	RETURN CALLEE'S R0-R1 TO CALLER
10	TPFUSR	'USER' SVC CALL
08	TPFACB	OS VSAM SVC REQUEST
02	TPFSV3	SVC 203
01	TPFSV0	OS SIMULATION SVC

2	CODE	2		SVC 203 CODE VALUE
4	CALLER	4		ADDRESS OF SVC CALLER
8	CALLEE	8		NAME OF ROUTINE BEING CALLED
10	OLDPSW	8		SVC OLDPSW OF CALLER
18	NRMRET	4		ADDRESS FOR NORMAL RETURN
1C	ERRET	4		ADDRESS FOR ERROR RETURN
20	EGPRS	0		GENERAL REGS AT ENTRY TO SVC
20	EGPR0	4		R0
24	EGPR1	4		R1
28	EGPR2	4		R2
2C	EGPR3	4		R3
30	EGPR4	4		R4
34	EGPR5	4		R5
38	EGPR6	4		R6
3C	EGPR7	4		R7
40	EGPR8	4		R8
44	EGPR9	4		R9
48	EGPR10	4		R10
4C	EGPR11	4		R11
50	EGPR12	4		R12
54	EGPR13	4		R13
58	EGPR14	4		R14
5C	EGPR15	4		R15
60	EFPRS	0		FLOATING POINT REGS AT ENTRY

DISP	NAME	LEN	KEY	DESCRIPTION
60	EFPR0	8		FPR0
68	EFPR2	8		FPR2
70	EFPR4	8		FPR4
78	EFPR6	8		FPR6
80	CHKWRD1	4		CHECK WORD ONE
84	SSAVENXT	4		ADDRESS OF NEXT SSAVE AREA
88	SSAVEPRV	4		ADDRESS OF PREVIOUS SSAVE AREA
8C	USAVEPTR	4		ADDRESS OF CORRESPONDING USER SAVE AREA
90	OSTEMP	4		TEMPORARY FOR OS SIMULATION ROUTINES
94	KEYP	1	S*3	NUMBER OF KEYS ON STACK
95	KEYS	7		KEY STACK
	THE FOLLOWING FIELDS ARE FILLED IN ONLY BY DMSOVS, THE SVCTRACE SUBROUTINE			
9C	XGPR0	4		EXTRA COPY OF EGPR0
A0	XGPR1	4		EXTRA COPY OF EGPR1
A4	XGPR15	4		EXTRA COPY OF EGPR15
A8	XCOUNT	4		EXTRA COPY OF SVCOUNT
AC	CHKWRD2	4		SECOND CHECK WORD
B0	SSAPSDPL	4		CHAIN ANCHOR FOR PSDPL
	BLOCKS USED BY PARSER			
B4	SSACMDRS	1	S*4	COMMAND RESOLUTION FLAG
	BITS DEFINED IN SSACMDRS			
	80 SSACSRCH			CMD SEARCH PERFORMED
	40 SSATRANS			CMD NAME TRANSLATED
	20 SSASYNON			CMD NAME SYNONYMED
B5		3		RESERVED

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

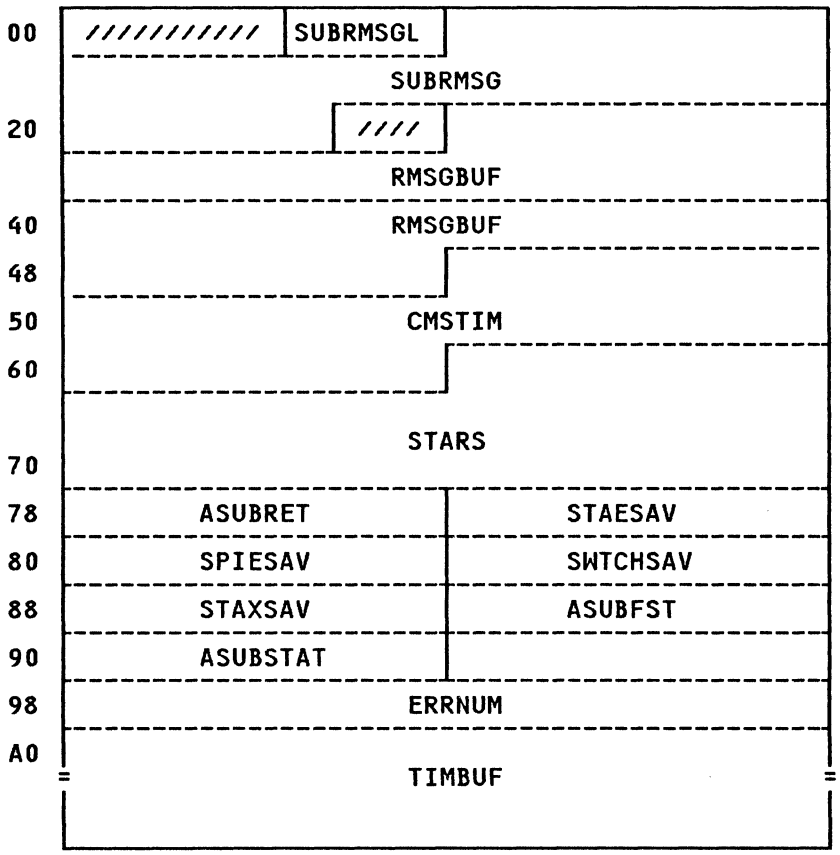
CALLEE	0008 ..	EGPR0	0020 ..	EGPR5	0034 ..	OSTEMP	0090 ..
CALLER	0004 ..	EGPR1	0024 ..	EGPR6	0038 ..	OVIND	0000 ..
CHKWRD1	0080 **	EGPR10	0048 ..	EGPR7	003C ..	SSACMDRS	00B4..
CHKWRD2	00AC **	EGPR11	004C ..	EGPR8	0040 ..	SSACSRCH	00B4 80
CODE	0002 ..	EGPR12	0050 ..	EGPR9	0044 ..	SSAPSDPL	00B0..
EFPRS	0060 ..	EGPR13	0054 ..	ERRET	001C ..	SSASYNON	00B4 20
EFPR0	0060 ..	EGPR14	0058 ..	KEYMAX	 07	SSATRANS	00B4 40
EFPR2	0068 ..	EGPR15	005C ..	KEYP	0094 ..	SSAVENXT	0084 ..
EFPR4	0070 ..	EGPR2	0028 ..	KEYS	0095 ..	SSAVEPRV	0088 ..
EFPR6	0078 ..	EGPR3	002C ..	NRMRET	0018 ..	SSAVESZ	 17
EGPRS	0020 ..	EGPR4	0030 ..	OLDPSW	0010 ..	TPFACB	0001 08

CROSS REFERENCE (Name Disp Value)

TPFERT	0001 80	TPFSV0	0001 01	TYPFLAG	0001 ..	XGPR0	009C ..
TPFNS	0001 40	TPFSV3	0001 02	USAVEPTR	008C ..	XGPR1	00A0 ..
TPFR01	0001 20	TPFUSR	0001 10	XCOUNT	00A8 ..	XGPR15	00A4 ..

SUBSECT: SUBSET WORK AREA

SUBSECT defines the fields in the SUBSET work area which is used by CMS SUBSET command processing and abend recovery. The SUBSECT block is pointed to by the ASUBSECT field in NUCON. SUBSECT is invoked via the SUBSECT macro.



SIZE

MAXIMUM LENGTH OF READY MESSAGE IN BYTES (SUBRMSGM) 1F

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0		3		RESERVED FOR FUTURE USE
3	SUBRMSGL	1		LENGTH OF RDYMSG IN BYTES

NOTE: SUBRMSG MUST START ON FULL WORD BOUNDARY AND SUBRMSGL MUST BE THE BYTE IMMEDIATELY PRECEDING RDYMSG

HEX DISP	NAME	LEN	KEY	DESCRIPTION
4	SUBRMSG	31		TEXT OF READY MESSAGE

DISP	NAME	LEN	KEY	DESCRIPTION
23		1		RESERVED FOR FUTURE USE
24	RMSGBUF	40		READY/TIME MESSAGE FORMATTING AREA
PLIST FOR GETTING TIMES FROM DMSINM				
4C	CMSTIM	24		PLIST FOR GETTING TIMES FROM DMSINM
PLIST FOR ACTLKP AS USED BY SUBSET				
64	STARS	18		PLIST FOR ACTLKP AS USED BY SUBSET
52		2		RESERVED
SUBSET ADDRESS STORAGE AREAS				
78	ASUBRET	4		SUBSET ADDRESS STORAGE AREA
7C	STAESAV	4		SUBSET ADDRESS STORAGE AREA
80	SPIESAV	4		SUBSET ADDRESS STORAGE AREA
84	SWTCHSAV	4		SUBSET ADDRESS STORAGE AREA
88	STAXSAV	4		SUBSET ADDRESS STORAGE AREA
8C	ASUBFST	4		SUBSET ADDRESS STORAGE AREA
90	ASUBSTAT	4		SUBSET ADDRESS STORAGE AREA
98	ERRNUM	8		WORK AREA FOR ERROR RETURN-CODE
A0	TIMBUF	32		WORK AREA FOR DMSINM TO STORE DATE AND TIME

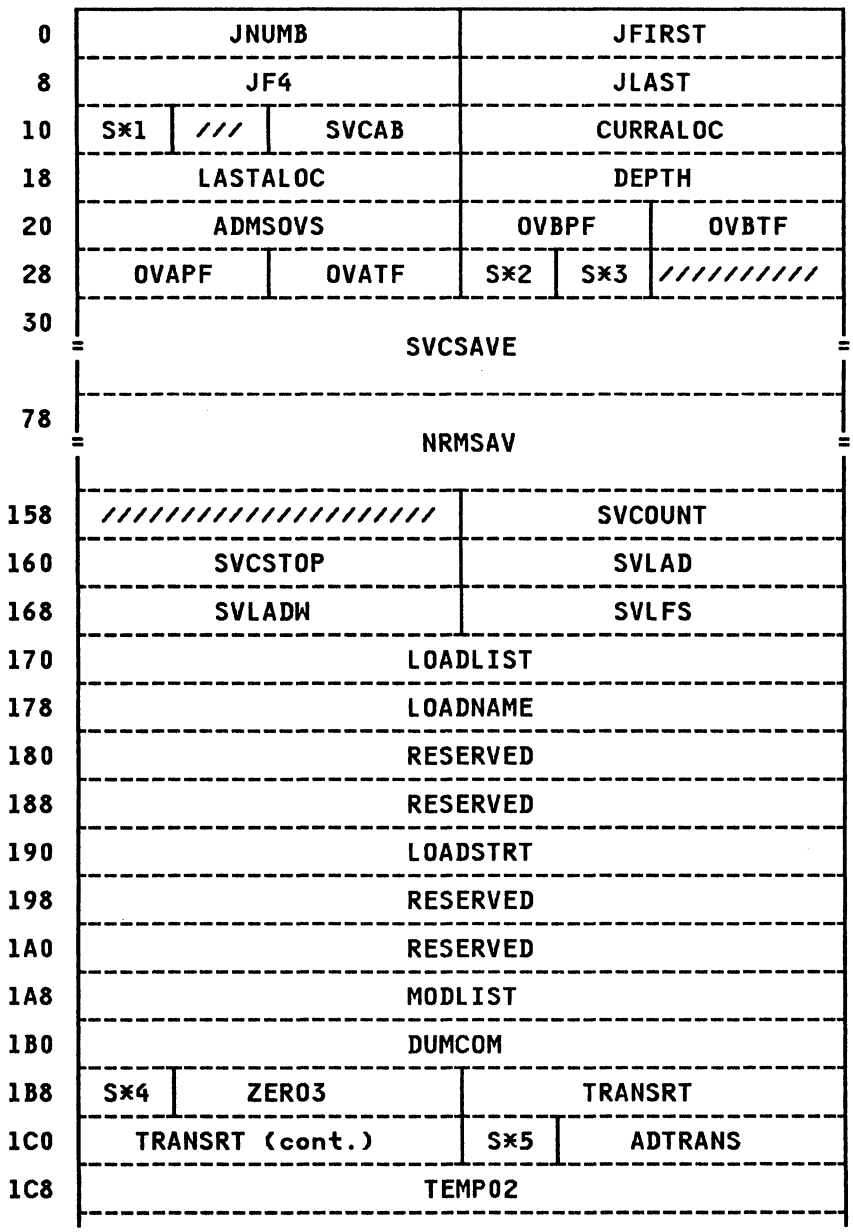
CROSS REFERENCE (Name Disp Value)

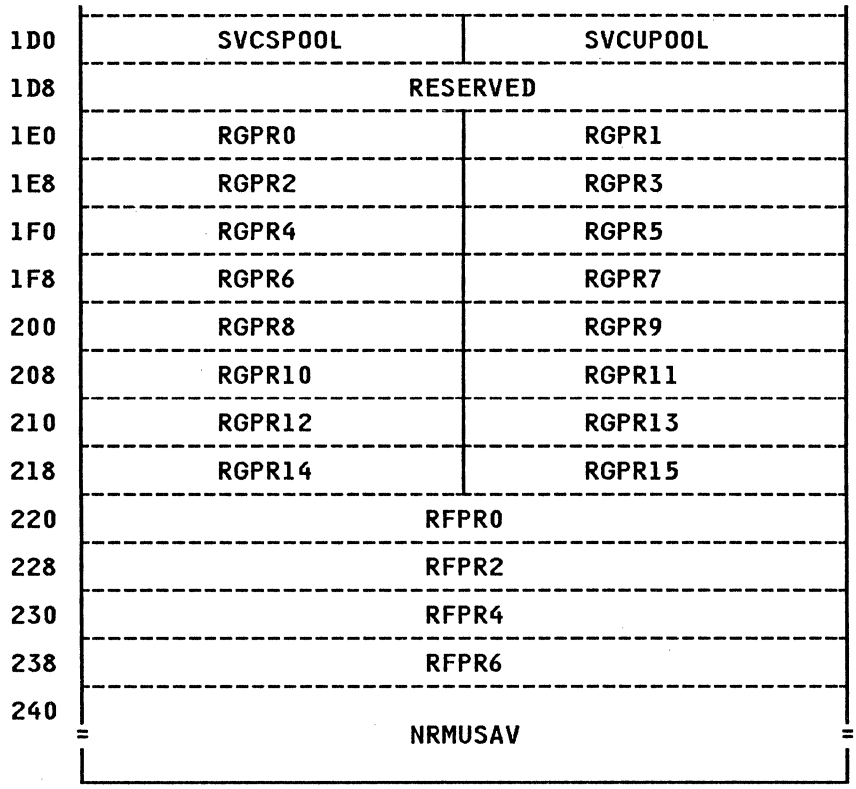
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

ASUBFST	008C	..	ERRNUM	0098	..	STARS	0064	..	SUBRMSGL	0003	
ASUBRET	0078	..	RMSGBUF	0024	..	STAXSAV	0088	..	SWTCHSAV	0084	..
ASUBSTAT	0090	..	SPIESAV	0080	..	SUBRMSG	0004		TIMBUF	00A0	..
CMSTIM	004C	..	STAESAV	007C	..						

SVCSECT: SVC INTERRUPT STORAGE

SVCSECT describes the fields used by DMSITS in handling SVC interrupts. SVCSECT is pointed to by the ASVCSECT field in NUCON. SVCSECT is invoked via the SVCSECT macro.





HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	USVCTBL	0		A 'HANDLE' FOR THE FOLLOWING
KEEP NEXT FOUR IN ORDER				
0	JNUMB	4		NUMBER OF DOUBLEWORDS IN SVC-NUMBER TABLE
4	JFIRST	4		ADDRESS OF FIRST ITEM (IF ANY) IN TABLE
8	JF4	4		(FOR BXLE)
C	JLAST	4		ADDRESS OF LAST ITEM IN TABLE
START-UP FLAGS -- INDICATE WHAT MODE THE CALLEE IS TO BE STARTED UP.				
10	SFLAG	1	S*1	FLAG BYTE
Values Defined in SFLAG				
80	SFSYS			SYSTEM FLAG -- SVC PROTECT KEY IS ZERO
40	SFTRN			TRANSIENT AREA ROUTINE -- SYSTEM MASK IS OFF
20	SFNUC			NUCLEUS ROUTINE -- SYS MASK OFF
02	SFNONUCX			SUPPRESS NUCLEUS EXTENSION
01	SFREN			ILLEGAL RE-ENTRY FLAG
11		1		UNUSED
12	SVCAB	2		SVC ABEND CODE, IF ANY

DISP	NAME	LEN	KEY	DESCRIPTION
14	CURRALOC	4		CURRENT ALLOCATED SAVE AREA
18	LASTALOC	4		LAST ALLOCATED SAVE AREA
1C	DEPTH	4		NESTED SVC DEPTH
	INFORMATION FOR SVCTRACE			
20	ADMSOVS	4		ADDRESS OF DMSOVS
24	OVBPF	2		'BEFORE PRINT' FLAGS
26	OVBTF	2		'BEFORE TYPE' FLAGS
28	OVAPF	2		'AFTER PRINT' FLAGS
2A	OVATF	2		'AFTER TYPE' FLAGS
	DEFINITIONS OF FLAGS FOR EACH PAIR OF FLAG BYTES			
	80 OVF1ON			THIS OPTION IS ON
	40 OVF1GB			GPRS BEFORE CALL WANTED
	20 OVF1GA			GPRS AFTER CALL WANTED
	10 OVF1GS			GPRS RETURNED FROM SVC CALLEE
	08 OVF1PA			PARAMETER LIST WANTED
	04 OVF1F			FLOATING POINT REGS WANTED
	01 OVF1FS			FPRS RETURNED FROM SVC CALLEE
	80 OVF2ST			'STOP' WANTED
	40 OVF2CM			CMS SVC TRACE WANTED
	20 OVF2NR			NORMAL RETURN CMS SVC'S WANTED
	10 OVF2OS			OS SVC'S WANTED
	08 OVF2WA			'WAIT' CMS SVC'S WANTED
2C	OVSTAT	1	S*2	CURRENT STATUS OF SVCTRACE
	Values Defined in OVSTAT			
	80 OVSON			OVERRIDES ARE ON
	40 OVSPREV			'SVCTRACE SAME' IS LEGAL
	20 OVSAFT			'AFTER' BIT, SET BY DMSITS
	10 OVSHO			'HALT OVERRIDES' FLAG
	08 OVSSO			'SUSPEND OVERRIDES' FLAG
	NLS COMMAND RESOLUTION FLAG - DMSINT, CSF, ITS USE ONLY			
2D	SVCCMDRS	1	S*3	COMMAND RESOLUTION FLAG
	Values Defined in SVCCMDRS			
	80 SVCCSRCH			COMMAND SEARCH PERFORMED
	40 SVCTRANS			COMMAND NAME TRANSLATED
	20 SVCSYNON			COMMAND NAME SYNONYMED
	10			RESERVED FOR IBM USE
	08			RESERVED FOR IBM USE
	04			RESERVED FOR IBM USE
	02			RESERVED FOR IBM USE
	01			RESERVED FOR IBM USE
2E		2		UNUSED
30	SVCSAVE	72		INTSVC WORK AREA
78	NRMSAV	224		NORMAL STANDARD INFORMATION
158		4		UNUSED
15C	SVCOUNT	4		CURRENT SVC COUNT
160	SVCSTOP	4		FOR DMSITS DEBUGGING

DISP	NAME	LEN	KEY	DESCRIPTION
164	SVLAD	4		SAVE REG 14 FOR DMSLAD
168	SVLADW	4		SAVE REG 14 FOR DMSLADW
16C	SVLFS	4		SAVE REG 14 FOR DMSLFS
170	LOADLIST	8		
178	LOADNAME	8		
180		16		RESERVED
190	LOADSTRT	8		
198		16		RESERVED FOR FUTURE USE
KEEP NEXT FIVE IN ORDER				
1A8	MODLIST	8		ROUTINE NAME
1B0	DUMCOM	8		MODULE 'FILENAME' FILLED IN HERE
1B8	SSMON	1	S*4	'FENCE' AND ALLOWS ALL INTERRUPTS
1B9	ZERO3	3		THREE-BYTE ZERO
1BC	TRANSRT	8		HOLDS FILENAME OF TRANSIENT ROUTINE
1C4	TRANMSK	1	S*5	
1C5	ADTRANS	3		
1C8	TEMP02	8		(FOR 'CVD' & OTHER SCRATCH-USE)
1D0	SVCSPOOL	4		POOL OF SYSTEM SAVE AREAS
1D4	SVCUPOOL	4		POOL OF USER SAVE AREAS
1D8		8		RESERVED FOR FUTURE USE
1E0	RGPRS	0		RETURNED GPRS
1E0	RGPR0	4		R0
1E4	RGPR1	4		R1
1E8	RGPR2	4		R2
1EC	RGPR3	4		R3
1F0	RGPR4	4		R4
1F4	RGPF5	4		R5
1F8	RGPR6	4		R6
1FC	RGPR7	4		R7
200	RGPR8	4		R8
204	RGPR9	4		R9
208	RGPR10	4		R10
20C	RGPR11	4		R11
210	RGPR12	4		R12
214	RGPR13	4		R13

DISP	NAME	LEN	KEY	DESCRIPTION
218	RGPR14	4		R14
21C	RGPR15	4		R15
220	RFPRS	0		RETURNED FLOATING POINT REGS
220	RFPR0	8		FPR0
228	RFPR2	8		FPR2
230	RFPR4	8		FPR4
238	RFPR6	8		FPR6
240	NRMUSAV	96		'NRMSAV' USER SAVE AREA

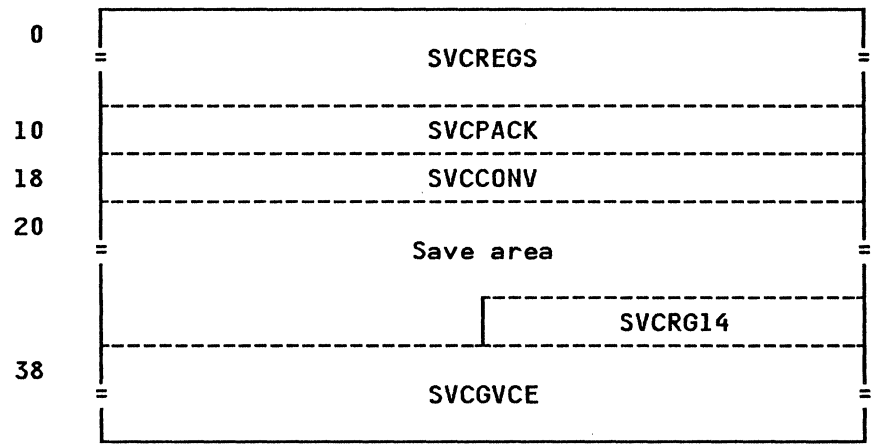
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

ADMSOVS	0020	..	OVF1GA	002A	20	RGPF5	01F4	..	SFSYS	0010	80
ADTRANS	01C5	..	OVF1GB	002A	40	RGPRS	01E0	..	SFTRN	0010	40
CURRALOC	0014	..	OVF1GS	002A	10	RGPR0	01E0	..	SSMON	01B8	..
DEPTH	001C	..	OVF1ON	002A	80	RGPR1	01E4	..	SVCAB	0012	..
DUMCOM	01B0	..	OVF1PA	002A	08	RGPR10	0208	..	SVCCMDRS	002D	..
JFIRST	0004	..	OVF2CM	002A	40	RGPR11	020C	..	SVCCSRCH	002D	80
JF4	0008	..	OVF2NR	002A	20	RGPR12	0210	..	SVCOUNT	015C	..
JLAST	000C	..	OVF2OS	002A	10	RGPR13	0214	..	SVCSAVE	0030	..
JNUMB	0000	..	OVF2ST	002A	80	RGPR14	0218	..	SVCSPOOL	01D0	..
LASTALOC	0018	..	OVF2WA	002A	08	RGPR15	021C	..	SVCSTOP	0160	..
LOADLIST	0170	..	OVSAFT	002C	20	RGPR2	01E8	..	SVCSYNON	002D	20
LOADNAME	0178	..	OVSHO	002C	10	RGPR3	01EC	..	SVCTRANS	002D	40
LOADSTRT	0190	..	OVSON	002C	80	RGPR4	01F0	..	SVCUPOOL	01D4	..
MODLIST	01A8	..	OVSPREV	002C	40	RGPR6	01F8	..	SVLAD	0164	..
NRMSAV	0078	..	OVSSO	002C	08	RGPR7	01FC	..	SVLADW	0168	..
NRMUSAV	0240	..	OVSTAT	002C	..	RGPR8	0200	..	SVLFS	016C	..
OVAPF	0028	..	RFPRS	0220	..	RGPR9	0204	..	TEMP02	01C8	..
OVATF	002A	..	RFPR0	0220	..	SFLAG	0010	..	TRANMSK	01C4	..
OVBPF	0024	..	RFPR2	0228	..	SFNONUCX	0010	02	TRANSRT	01BC	..
OVBTF	0026	..	RFPR4	0230	..	SFNUC	0010	20	USVCTBL	0000	..
OVF1F	002A	04	RFPR6	0238	..	SFREN	0010	01	ZERO3	01B9	..
OVF1FS	002A	01									

SVCWORK: SVC WORKAREA

SVCWORK is a workarea and register savearea for the CMS DOS simulation modules. SVCWORK is invoked by itself.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	SVCREGS	16		REGISTER SAVE AREA
10	SVCPACK	8		PACK/UNPACK WORK AREA
18	SVCCONV	8		CONVERT WORKAREA
20		20		SAVEAREA
34	SVCRG14	4		DMSGMF R14 SAVEAREA
38	SVCGVCE	24		GETVCE PARAMETER LIST

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
SVCCONV  0018 ..    SVCPACK  0010 ..    SVCREGS  0000 ..
SVCGVCE  0038 ..                        SVCRG14  0034 ..
```

SVEARA: LTA AND PP SAVE AREA DSECT

SVEARA describes the fields in a VSE Logical Transient Area (LTA) and Problem Program (PP) save area. SVEARA is invoked via the DOSAVE macro. These areas are used by DOS/VS routines to save the value of the PSW and registers for purposes such as linkage to and from transient routines.

0	//////////////////////	//////////////////////
8	SVEPSW	SVEPSW2
10	SVER09	SVER0A
18	SVER0B	SVER0C
20	SVER0D	SVER0E
28	SVER0F	SVER00
30	SVER01	SVER02
38	SVER03	SVER04
40	SVER05	SVER06
48	SVER07	SVER08

HEX DISP	NAME	LEN	KEY	DESCRIPTION
8	SVEPSW	0		FIRST HALF PSW
8	SVEASM	1		SYSTEM MASK
9	SVEAKA	1		KEY AND AMWP
A	SVEAIC	2		INTERRUPT CODE
C	SVEPSW2	0		SECOND HALF PSW
C	SVEAICP	1		ILC, CC, PROGRAM MASK
D	SVEAIA	3		INSTRUCTION ADDRESS
10	SVEA0908			REGISTERS 9-8
10	SVEA0915			REGS 9-15
10	SVER09	4		SAVE AREA FOR REGISTER 9
14	SVER0A	4		SAVE AREA FOR REGISTER 10
18	SVER0B	4		SAVE AREA FOR REGISTER 11
1C	SVER0C	4		SAVE AREA FOR REGISTER 12
20	SVER0D	4		SAVE AREA FOR REGISTER 13

DISP	NAME	LEN	KEY	DESCRIPTION
24	SVER0E	4		SAVE AREA FOR REGISTER 14
28	SVER0F	4		SAVE AREA FOR REGISTER 15
2C	SVEA0008			REGS 0-8
2C	SVER00	4		SAVE AREA FOR REGISTER 0
30	SVER01	4		SAVE AREA FOR REGISTER 1
34	SVER02	4		SAVE AREA FOR REGISTER 2
38	SVER03	4		SAVE AREA FOR REGISTER 3
3C	SVER04	4		SAVE AREA FOR REGISTER 4
40	SVER05	4		SAVE AREA FOR REGISTER 5
44	SVER06	4		SAVE AREA FOR REGISTER 6
48	SVER07	4		SAVE AREA FOR REGISTER 7
4C	SVER08	4		SAVE AREA FOR REGISTER 8

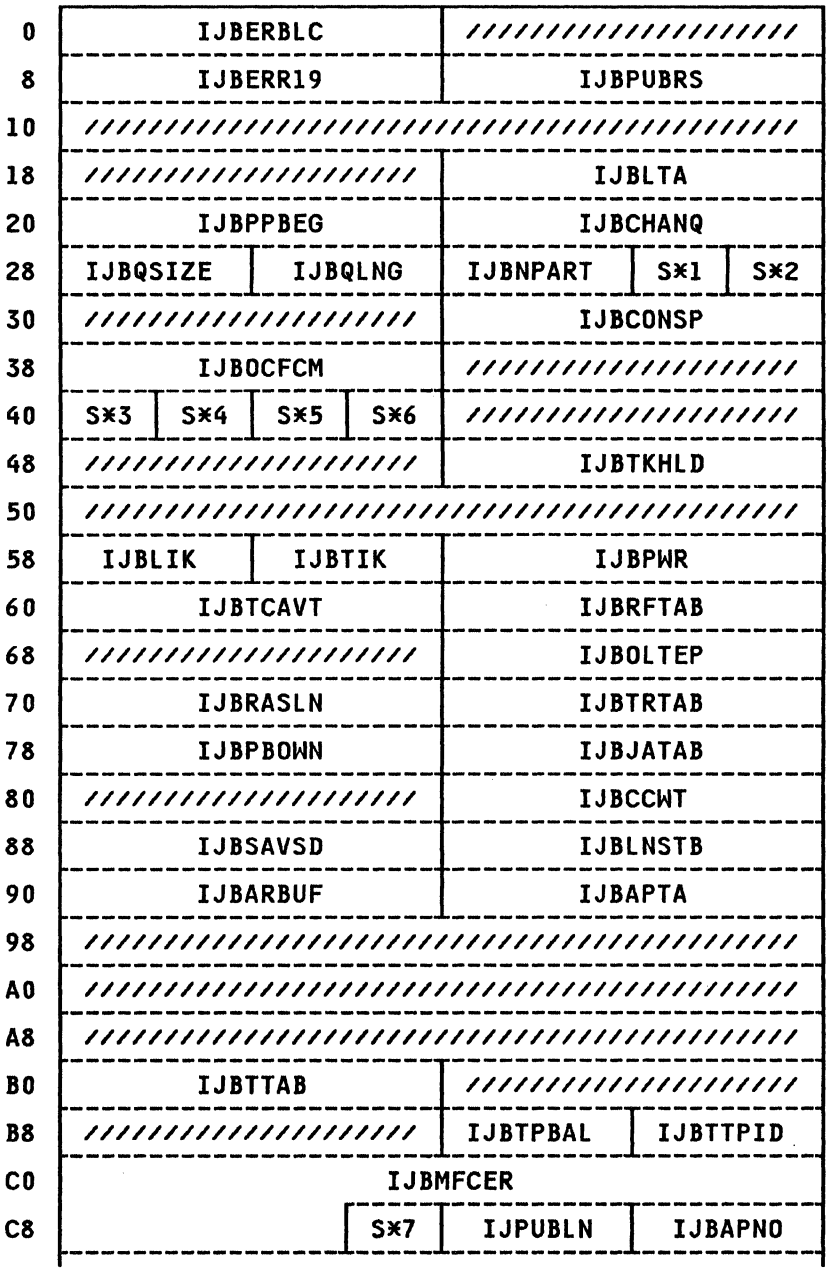
CROSS REFERENCE (Name Disp Value)

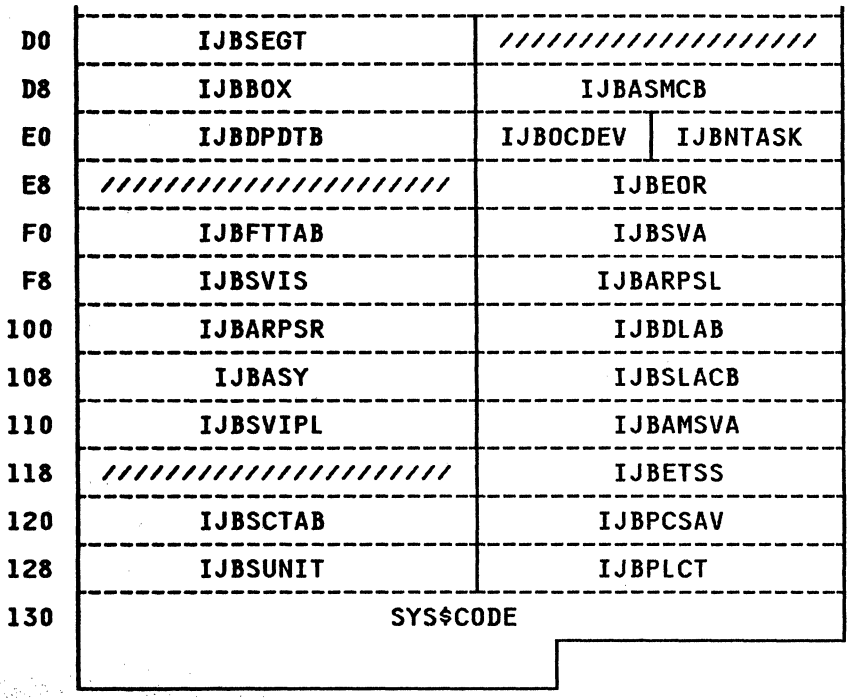
This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

SVEAIA 000D ..	SVEA0915 0010 ..	SVER0E 0024 ..	SVER04 003C ..
SVEAIC 000A ..	SVEPSW 0008 ..	SVER0F 0028 ..	SVER05 0040 ..
SVEAICP 000C ..	SVEPSW2 000C ..	SVER00 002C ..	SVER06 0044 ..
SVEAKA 0009 ..	SVER0A 0014 ..	SVER01 0030 ..	SVER07 0048 ..
SVEASM 0008 ..	SVER0B 0018 ..	SVER02 0034 ..	SVER08 004C ..
SVEA0008 002C ..	SVER0C 001C ..	SVER03 0038 ..	SVER09 0010 ..
SVEA0908 0010 ..	SVER0D 0020 ..		

SYSCOM: SYSTEM COMMUNICATION REGION

SYSCOM describes the fields in the SYSCOM block which is the CMS/DOS equivalent of the VSE System Communication Region (SYSCOM). The ASYSCOM field in NUCON points to the SYSCOM block in DMSNUC. SYSCOM is invoked via the SYSCOM macro.





HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	IJBERBLC	4		ADDRESS OF ERROR BLOCK
4		4		RESERVED
8	IJBERR19	4		CANCEL EXIT FOR ATTENTION
C	IJBPUBRS	4		SYSRES PUB ADDRESS
10		12		RESERVED
1C	IJBLTA	4		POINTER TO LOGICAL TRANSIENT AREA
20	IJBPPBEG	4		POINTER TO PROBLEM PROGRAM AREA
24	IJBCHANQ	4		POINTER TO CHANNEL QUEUE
24	IJBFLPTR			FREE LIST POINTER
28	IJBQSIZE	2		NUMBER OF CHANNEL QUEUE ENTRIES
2A	IJBQLNG	2		LENGTH OF ONE ERROR QUEUE ENTRY
2C	IJBNPART	2		NUMBER OF PARTITIONS
2E	IJBFLG05	1	S*1	FLAGS AND SWITCHES

DISP	NAME	LEN	KEY	DESCRIPTION
	Values Defined in IJBFLG05			
	80 IJBAF			AF SUPERVISOR
	40 IJBVSE			DOS/VSE SUPERVISOR
2F	IJBFLG06	1	S*2	FLAGS FOR IPL
	Values Defined in IJBFLG06			
	80 IJBEMODE			HARDWARE SUPPORTED
	04 IJBCKD			DISK SUPPORT FOR CKD
	02 IJBFBA			DISK SUPPORT FOR FB/E
	01 IJB3800			3800 SUPPORT INCLUDED
30		4		RESERVED
34	IJBCONSP	4		ADDRESS OF CRT TABLE
34	IJBOCFLG			
38	IJBOCFCM	4		OCF COMMUNICATION AREA
3C		4		RESERVED
40	IJBFLG01	1	S*3	FLAGS AND SWITCHES 125 RMS
	Values Defined in IJBFLG01			
	80 IJBRMSR			RMSR SUPPORTED
	40 IJBRMS			RMS SUPPORTED
	20			RESERVED - MUST BE ZERO
	01 IJBITDWN			IT-SUPPORT DOWN
41	IJBFLG02	1	S*4	SWITCH BYTE
42	IJBFLG03	1	S*5	FLAGS AND SWITCHES
43	IJBFLG04	1	S*6	FLAGS AND SWITCHES
44		8		RESERVED
4C	IJBTKHLD	4		ADDRESS OF TRACK HOLD TABLE
4C	IJBTHPTR			TRACKHOLD FLPTR
50		8		RESERVED
58	IJBLIK	2		KEY OF TASK OWNING THE LTA
5A	IJBTIK	2		TASK INTERRUPT KEY
5A	TID	2		ID OF TASK RUNNING
5B	TIDBYTE			SIGNIFICANT PART OF TID
5C	IJBPWR	4		POINTER TO POWER TABLE
60	IJBTCAVT	4		SPACE FOR VTAM ADDRESS
64	IJBRFTAB	4		POINTER TO RF TABLE
68	IJBEUECB	4		RESERVED
6C	IJBOLTEP	4		ADDRESS OF OLTEP BUCKET
70	IJBRASLN	4		POINTER TO RAS LINKAGE AREA
74	IJBTRTAB	4		ADDRESS OF ASCII TABLE
78	IJBPBOWN	4		ADDRESS OF PUB OWNERSHIP TABLE

DISP	NAME	LEN	KEY	DESCRIPTION
7C	IJBJATAB	4		ADDRESS OF JOB ACCOUNTING COMM. AREA
80		4		RESERVED
84	IJBCCWT	4		ADDRESS OF CCW TRANS WORK
88	IJBSAVSD	4		PNTR TO SDAID COMM. AREA
8C	IJBLNSTB	4		ADDRESS OF LINE MODE TABLE
90	IJBARBUF	4		ADDRESS OF ATTN INPUT BUFFER
94	IJBAPTA	4		ADDRESS OF PTA
98		24		RESERVED
B0	IJBTTAB	4		ADDRESS OF TTIMER TABLE
B4		4		RESERVED
B8		4		RESERVED
BC	IJBTPBAL	2		TPBALANCING INFORMATION
BE	IJBTTPID	2		TASK TIMER OWNER
C0	IJBMFCER	11		REPOSITE INFORMATION MFCM AND MFCU ERP
CB	IJBNERQ	1	S*7	NUMBER OF ERROR QUEUE ENTRIES
CC	IJBPUBLN	2		LENGTH OF PUB TABLE
CE	IJBAPNO	2		NUMBER OF ACTIVE PARTITIONS
D0	IJBSEGT	4		ADDRESS OF SEGMENT TABLE
D4		4		RESERVED
D8	IJBBOX	4		POINTER TO BOUNDARY BOX
DC	IJBASMCB	4		ADDRESS OF STORAGE MGMT
E0	IJBDPDTB	4		POINTER TO DPD TABLE
E4	IJBOCDEV	2		CUU OF SYSTEM'S OP. CON.
E6	IJBNTASK	2		NUMBER OF SUBTASKS SUPPORTED
E8		4		RESERVED
EC	IJBEOR	4		END OF REAL STORAGE
F0	IJBFTTAB	4		ADDRESS OF THE FETCH TABLE
F4	IJBSVA	4		ADDRESS OF THE SVA START
F8	IJBSVIS	4		ADDRESS OF SVA GETVIS AREA
FC	IJBARPSL	4		ADDRESS OF RPS DIRECTORY LIST
100	IJBARPSR	4		SDDR OF SECTOR CALC ROUTINE
104	IJBDLAB	4		POINTER TO SYSTEM CODE NAME
108	IJBASY	4		ADDRESS OF ASYN OP COM TAB
108	IJBASYFL			FLAGBYTE FOR ASYN OP COM
10C	IJBSLACB	4		ADDRESS OF LABEL AREA

DISP	NAME	LEN	KEY	DESCRIPTION
110	IJBSVIPL	4		ADDRESS OF IPL SUPERVISOR
114	IJBAMSVA	4		ADDRESS OF SVA MOD AREA
118		4		RESERVED
11C	IJBETSS	4		POINTER TO ETSS VECTOR TABLE
120	IJBSCTAB	4		POINTER TO SEC VECTOR TABLE
124	IJBPCSAV	4		SAVE AREA FOR REG IF PC IN SVA
128	IJBSUNIT	4		TABLE OF SYSTEM UNITS
12C	IJBPLCT	4		POINTER LIBRARY CONTROL TABLE
130	SYS$CODE	13		SYSTEM CODE NAME
13D	IJBFINSC			END OF SYSTEM COMMUNICATION REGION

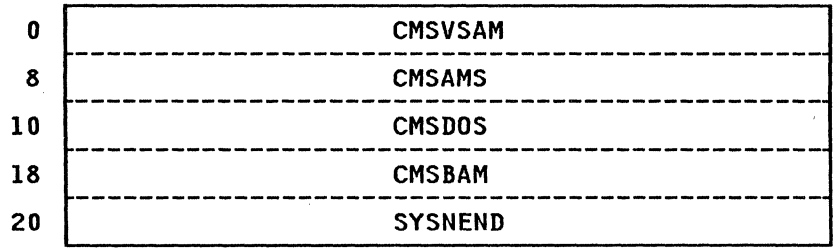
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

IJBAF 002E 80	IJBERR19 0008 ..	IJBNPART 002C ..	IJBSCTAB 0120 ..
IJBAMSVA 0114 ..	IJBETSS 011C ..	IJBNTASK 00E6 ..	IJBSEGT 00D0 ..
IJBAPNO 00CE ..	IJBEUECB 0068 ..	IJBOCDEV 00E4 ..	IJBSLACB 010C ..
IJBAPTA 0094 ..	IJBFBA 002F 02	IJBOCFCM 0038 ..	IJBSUNIT 0128 ..
IJBARBUF 0090 ..	IJBFINSC 013D ..	IJBOCFLG 34	IJBSVA 00F4 ..
IJBARPSL 00FC ..	IJBFLG01 0040 ..	IJBOLTEP 006C ..	IJBSVIPL 0110 ..
IJBARPSR 0100 ..	IJBFLG02 0041 ..	IJBPBOWN 0078 ..	IJBSVIS 00F8 ..
IJBASMCB 00DC ..	IJBFLG03 0042 ..	IJBPCSAV 0124 ..	IJBTCAVT 0060 ..
IJBASY ... 108	IJBFLG04 0043 ..	IJBPLCT 012C ..	IJBTHPTR 4C
IJBASYFL 0108 ..	IJBFLG05 002E ..	IJBPPBEG 0020 ..	IJBTIK 5A
IJBBOX 00D8 ..	IJBFLG06 002F ..	IJBPUBLN 00CC ..	IJBTKHLD 004C ..
IJBCCWT 0084 ..	IJBFLPTR 0024 ..	IJBPUBRS 000C ..	IJBTPBAL 00BC ..
IJBCHANQ 0024 ..	IJBFTTAB 00F0 ..	IJBPWR 005C ..	IJBTRTAB 0074 ..
IJBCKD 002F 04	IJBITDWN 0040 01	IJBQLNG 002A ..	IJBTTAB 00B0 ..
IJBCONSP 0034 ..	IJBJATAB 007C ..	IJBQSIZE 0028 ..	IJBTTPID 00BE ..
IJBDLAB 0104 ..	IJBLIK 0058 ..	IJBRASLN 0070 ..	IJBVSE 002E 40
IJBDPDTB 00E0 ..	IJBLNSTB 008C ..	IJBRFTAB 0064 ..	IJB3800 002F 01
IJBEMODE 002F 80	IJBLTA 001C ..	IJBRMS 0040 40	SYS$CODE 0130 ..
IJBEOR 00EC ..	IJBMFCER 00C0 ..	IJBRMSR 0040 80	TID 005A ..
IJBERBLC 0000 ..	IJBNERQ 00CB ..	IJBSAVSD 0088 ..	TIDBYTE 5B

SYSNAMES: SAVED SYSTEMS NAMES

SYSNAMES defines the names of any saved systems that may be loaded by CMS routines. SYSNAMES describes the entries in the SYSNAMES table which is pointed to by the ASYSNAMES field in NUCON. SYSNAMES is invoked via the SYSNAMES macro.



SIZE

SIZE IN DOUBLEWORDS (SYSNCNT) 04

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CMSVSAM	8		VSAM SHARED SYSTEM NAME
8	CMSAMS	8		AMS SHARED SYSTEM NAME
10	CMSDOS	8		DOS SHARED SYSTEM NAME
18	CMSBAM	8		DOSVS/BAM SHARED SEGMENT NAME
20	SYSNEND	0		

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
CMSAMS   0008 ..    CMSDOS   0010 ..    CMSVSAM  0000 ..    SYSNCNT  .... 04
CMSBAM   0018 ..                                            SYSNEND  0020 ..
```

TCBADR: TASK CONTROL BLOCK

TCBADR simulates the VSE task control block. TCBADR is invoked via the BGTCB macro.

0		T*1	FATHERID	T*2	T*3
8	TCBTIB		TCBSAVE		
10	TCBINFO		TCBECB		
18	TCBSAV2		TCBITPTR		
20	TCBITSAV		TCBABPTR		
28	TCBABSAV		TCBPCPTR		
30	TCBPCSAV				

SIZE

SHORT SYSTEM TASK TCB LENGTH IN BYTES (SSTCBLNG) 24

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0		2		LENGTH OF TCB
2		1		RESERVED
3	TCBRID	1	T*1	RID
4	FATHERID	2		TID OF ATTACHING TASK
6	TCBFLAGS	1	T*2	FLAG BYTE
	Values Defined in TCBFLAGS			
	80 SYSRESW			WRITE ON SYSRES ALLOWED
	10 ACLOSE			VSAM AUTO. CLOSE IN PROCESS
	08 VSAMOPEN			VSAM ACB'S OPEN IN PARTITION
7	TCBFLAG2	1	T*3	FLAG BYTE
8	TCBTIB	4		TIB POINTER
C	TCBSAVE	4		TASK SAVE AREA ADDRESS
10	INTINFO	4		INTERRUPT INFORMATION
14	AERREXIT	0		ERROR EXITS
14	TCBECB	4		USER TASKS: ADDRESS OF ATTACH ECB
18	TCBSAV2	4		ADDRESS OF SECOND SAVE AREA
1C	TCBITPTR	4		ADDRESS OF EXIT ROUTINE OR TECB
20	TCBITSAV	4		ADDRESS OF EXIT SAVE AREA

DISP	NAME	LEN	KEY	DESCRIPTION
24	TCBABPTR	4		ADDRESS OF AB EXIT ROUTINE
28	TCBABSAV	4		ADDRESS OF AB EXIT SAVE AREA
2C	TCBPCPTR	4		ADDRESS OF PC EXIT ROUTINE
30	TCBPCSAV	4		ADDRESS OF PC EXIT SAVE AREA

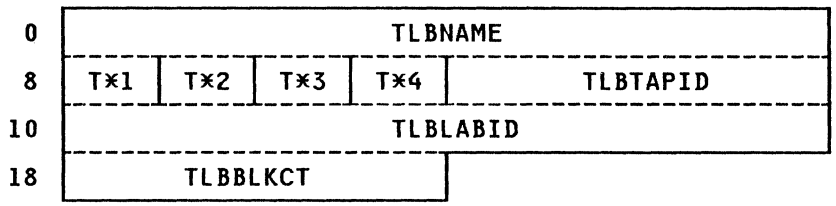
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

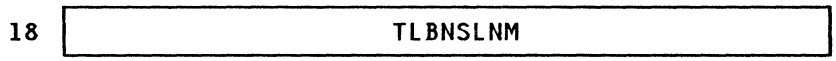
ACLOSE	0006 10	SYSRESW	0006 80	TCBFLAG2	0007 ..	TCBRID	0003 ..
AERREXIT	0014 ..	TCBABPTR	0024 ..	TCBITPTR	001C ..	TCBSAVE	000C ..
FATHERID	0004 ..	TCBABSAV	0028 ..	TCBITSAV	0020 ..	TCBSAV2	0018 ..
INTINFO	0010 ..	TCBECB	0014 ..	TCBPCPTR	002C ..	TCBTIB	0008 ..
SSTCBLNG	 24	TCBFLAGS	0006 ..	TCBPCSAV	0030 ..	VSAMOPEN	0006 08

TLBBLOK: TAPE LABEL PROCESSING INFORMATION

TLBBLOK contains information used by the CMS tape label processing routines. TLBBLOK is invoked via the TLBBLOK macro.



- For nonstandard labels, the following is the format:



SIZE

TLBBLOK SIZE IN DOUBLEWORDS (TLBDWSZ) 04
TLBBLOK SIZE IN BYTES (TLBSIZE) 20

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	TLBNAME	8		CALLED RTNE NAME - DMSTLB
8	TLBTYPE	1	T*1	TYPE OF CALL

Values Defined in TLBTYPE

00	TLBOPIN	OPEN INPUT
04	TLBOPOUT	OPEN OUTPUT
08	TLBCLIN	CLOSE INPUT
0C	TLBCLOUT	CLOSE OUTPUT
10	TLBEOV	EOV LABEL CALL

9	TLBCALL	1	T*2	CALLER ID

Values Defined in TLBCALL

80	TLBOS	OS SIMULATION
40	TLBDOS	DOS SIMULATION
20	TLBCMS	CMS (COMMAND OR MACRO)
10	TLBCMAC	CMS MACRO

DISP	NAME	LEN	KEY	DESCRIPTION
A	TLBLABT	1	T*3	LABEL TYPE

Values Defined in TLBLABT

00	TLBNONE	NONE SPECIFIED
01	TLBBLP	NO LABEL PROCESSING
02	TLBSL	
04	TLBUSER	USER BIT
06	TLBSUL	STANDARD USER LABELS
08	TLBNSL	NON STANDARD LABELS
10	TLBNSLMD	NSL ROUTINE IS MODULE
20	TLBMSPC	CMS MACRO SPACE TO TM OR WTM

B	TLBMODE	1	T*4	TAPE MODESET BYTE
C	TLBTAPID	4		TAPEID
10	TLBDTFPT	4		DTF POINTER FOR DOS
10	TLBFCBPT	4		FCB POINTER FOR OS
10	TLBLABID	8		LABSECT NAME (OR ID) FOR CMS
18	TLBBLKCT	4		BLOCK COUNT FOR CMS

MAPPING BELOW IS FOR NSL LABEL ONLY. IT OVERLAYS PART OF SL INTERFACE.

18	TLBNSLNM	8		NSL ROUTINE FILE NAME

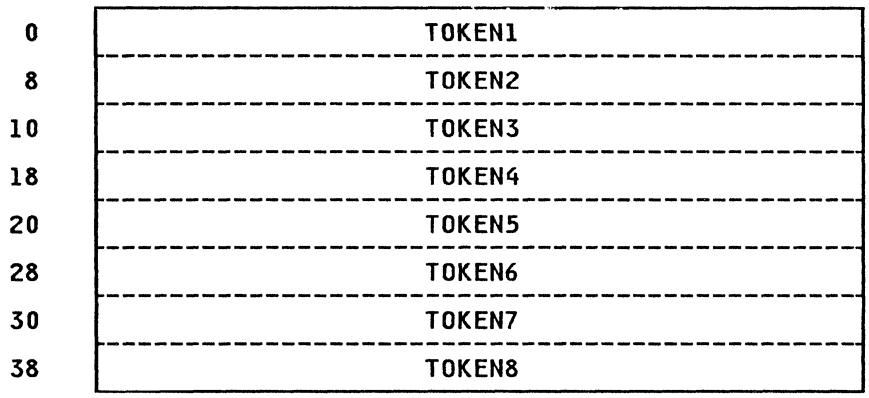
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

TLBBLKCT	0018 ..	TLBDTFPT	0010 ..	TLBNAME	0000 ..	TLBOS	0009 80
TLBBLP	000A 01	TLBDWSZ	 04	TLBNONE	000A 00	TLBSIZE	 20
TLBCALL	0009 ..	TLBEOV	0008 10	TLBNSL	000A 08	TLBSL	000A 02
TLBCLIN	0008 08	TLBFCBPT	0010 ..	TLBNSLMD	000A 10	TLBSUL	000A 06
TLBCLOUT	0008 0C	TLBLABID	0010 ..	TLBNSLNM	0018 ..	TLBTAPID	000C ..
TLBCMAC	0009 10	TLBLABT	000A ..	TLBOPIN	0008 00	TLBTYPE	0008 ..
TLBCMS	0009 20	TLBMODE	000B ..	TLBOPOUT	0008 04	TLBUSER	000A 04
TLBDOS	0009 40	TLBMSPC	000A 20				

TOKLIST: CMS-TYPE TOKENIZED LIST

TOKLIST is used as a template to describe a list of eight-byte tokens. TOKLIST is found in PROP copy.



SIZE

LENGTH OF A TOKEN (TLEN) 08

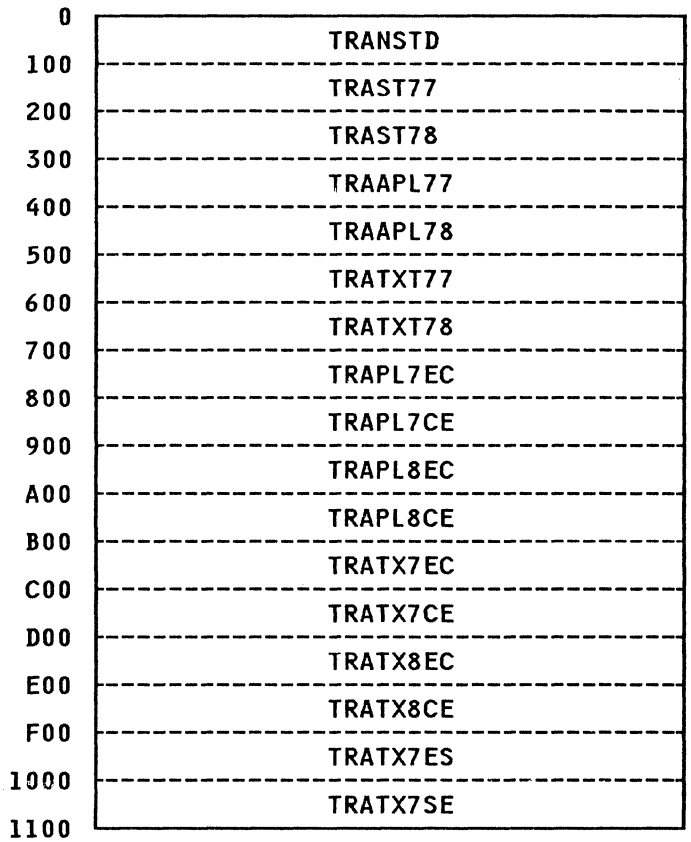
HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	TOKEN1	8		FIRST TOKEN
8	TOKEN2	0		SECOND TOKEN
8	TOKEN2F1	4		FIRST FULLWORD
C	TOKEN2F2	4		SECOND FULLWORD
10	TOKEN3	8		THIRD TOKEN
18	TOKEN4	8		FOURTH TOKEN
20	TOKEN5	8		FIFTH TOKEN
28	TOKEN6	8		SIXTH TOKEN
30	TOKEN7	8		SEVENTH TOKEN
38	TOKEN8	8		EIGHTH TOKEN

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

TLEN	 08	TOKEN2F1	0008 ..	TOKEN4	0018 ..	TOKEN7	0030 ..
TOKEN1	0000 ..	TOKEN2F2	000C ..	TOKEN5	0020 ..	TOKEN8	0038 ..
TOKEN2	0008 ..	TOKEN3	0010 ..	TOKEN6	0028 ..		

TRANTBL: TRANSLATION TABLES



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	TRANSTD	256		Standard uppercase table
100	TRAST77	256		EBCDIC -> 3277 Character Set
200	TRAST78	256		EBCDIC -> 3278 Character Set
300	TRAAPL77	256		EBCDIC -> 3277 APL Character Set
400	TRAAPL78	256		EBCDIC -> 3278 APL Character Set
500	TRATXT77	256		EBCDIC -> 3277 Text Character Set
600	TRATXT78	256		EBCDIC -> 3278 Text Character Set
700	TRAPL7EC	256		EBCDIC -> 3277/APL Compound Chars
800	TRAPL7CE	256		3277/APL Compound Chars -> EBCDIC
900	TRAPL8EC	256		EBCDIC -> 3278/APL Compound Chars
A00	TRAPL8CE	256		3278/APL Compound Chars -> EBCDIC

DISP	NAME	LEN	KEY	DESCRIPTION
B00	TRATX7EC	256		EBCDIC -> 3277/Text Compound Char
C00	TRATX7CE	256		3277/Text Compound Char -> EBCDIC
D00	TRATX8EC	256		EBCDIC -> 3278/Text Compound Char
E00	TRATX8CE	256		3278/Text Compound Char -> EBCDIC
F00	TRATX7ES	256		EBCDIC -> 3277/Text Single Char
1000	TRATX7SE	256		3277/Text Single Char -> EBCDIC

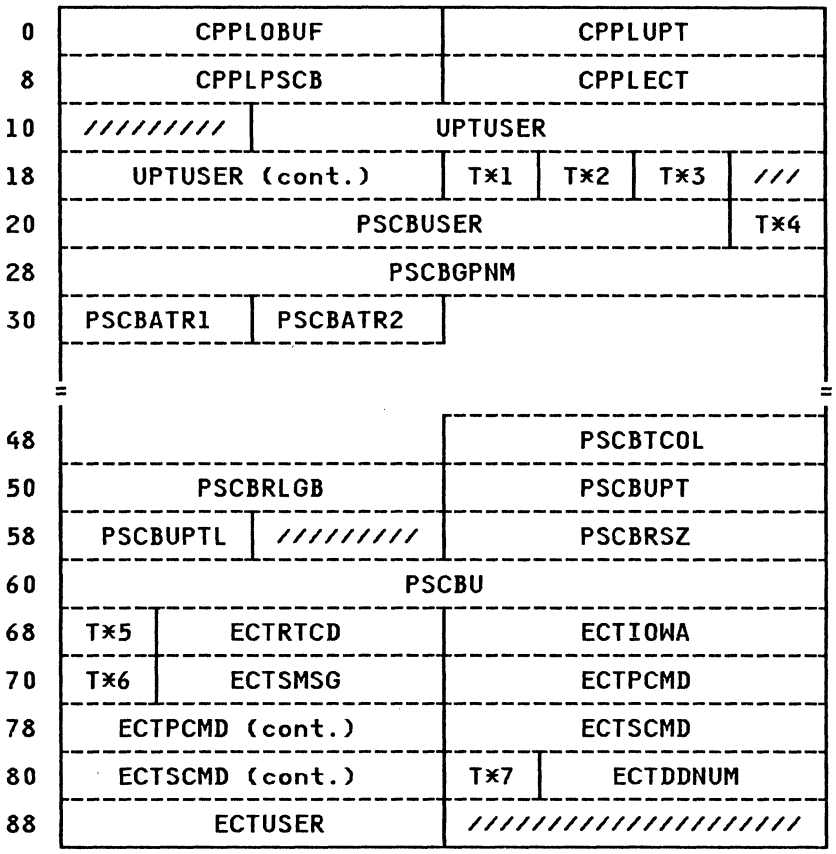
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

TRAAPL77 0300 ..	TRAPL8CE 0A00 ..	TRATXT77 0500 ..	TRATX7ES 0F00 ..
TRAAPL78 0400 ..	TRAPL8EC 0900 ..	TRATXT78 0600 ..	TRATX7SE 1000 ..
TRANSTD 0000 ..	TRAST77 0100 ..	TRATX7CE 0C00 ..	TRATX8CE 0E00 ..
TRAPL7CE 0800 ..	TRAST78 0200 ..	TRATX7EC 0B00 ..	TRATX8EC 0D00 ..
TRAPL7EC 0700 ..			

TSOBLKS: TSO CONTROL BLOCKS

TSOBLKS DSECT describes the entries in the TSOBLKS block which contains OS control information used by CMS, that is, the command program parameters list (CCPL), user profile table (UPT), protected step control block (PSCB), and the environment control table (ECT). The ATSOCPPL field in NUCON points to TSOBLKS block. TSOBLOKS is invoked via the TSOBLOKS macro.



HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	CPPL	0		TEMPORARY PLIST TO CP PROGRAMS
0	CPPLOBUF	4		ADDRESS OF COMMAND LINE
4	CPPLUPT	4		ADDRESS OF DUMMY UPT
8	CPPLPSCB	4		ADDRESS OF DUMMY PSCB
C	CPPLECT	4		ADDRESS OF DUMMY ECT

DISP	NAME	LEN	KEY	DESCRIPTION
THE FOLLOWING ARE FACSIMILE TSO CONTROL BLOCKS				
10	UPT	4		USER PROFILE TABLE
12	UPTUSER	10		RESERVED FOR INSTALLATION USE
1C	UPTSWS	1	T*1	USER'S ENVIRONMENT SWITCH
	Values Defined in UPTSWS			
	40 UPTNPRM			NO PROMPTING IS TO BE DONE
	20 UPTMID			PRINT MESSAGE IDENTIFIERS
	10 UPTNCOM			NO USER COMMUNICATION ALLOWED VIA SEND
	08 UPTPAUS			PAUSE FOR '?' WHEN IN NON-INTERFACE MODE
	04 UPTALD			ATTN HAS BEEN SPECIFIED AS LINE DELETE
1D	UPTCDEL	1	T*2	CHAR DELETE CHARACTER
1E	UPTDEL	1	T*3	LINE DELETE CHARACTER
20	PSCB	4		PROTECTED STEP CONTROL BLOCK
20	PSCBUSER	7		USER ID PADDED WITH BLANKS
27	PSCBUSRL	1	T*4	LENGTH OF USER ID
28	PSCBGPNM	8		ESOTERIC GROUP NAME INIT BY LOGON
30	PSCBATR1	1	T*5	15 BIT STRING OF USER ATTRIBUTES
	Values Defined in PSCBATR1			
	80 PSCBCTRL			OPERATOR COMMAND USER
	40 PSCBACCT			ACCOUNT COMMAND USER
	20 PSCBJCL			SUBMIT COMMAND USER
31		1		RESERVED
32	PSCBATR2	1	T*6	15 BIT STRING RESERVED FOR INSTRUCTION USE
33		1		RESERVED
THE FOLLOWING 6 FULL WORDS ARE USED IN TSO FOR ACCOUNTING. THEY WILL BE LEFT INITIALLY TO ZERO.				
4C	PSCBTCOL	4		
50	PSCBRLGB	4		
54	PSCBUPT	4		POINTER TO THE USER PROFILE TABLE
58	PSCBUPTL	2		LENGTH OF THE UPT
5C	PSCBRSZ	4		REGION SIZE REQUESTED IN 2K UNITS
60	PSCBU	8		RESERVED FOR INSTALLATION USE
68	ECT	4		ENVIRONMENT CONTROL BLOCK
68	ECTRCDF	1	T*5	HIGH ORDER BIT INDICATES CP ABENDED
69	ECTRTCD	3		RETURN CODE FROM LAST CP
6C	ECTIOWA	4		ADDRESS OF I/O SERVICE ROUTINE WORK AREA

DISP	NAME	LEN	KEY	DESCRIPTION
	THIS FIELD MUST BE INITIALIZED BY USER AT START OF HIS PROGRAM.			
70	ECTMSGF	1	T*6	HIGH ORDER BIT MEANS DELETE 2ND LEVEL MESSAGES
71	ECTSMSG	3		ADDRESS OF SECOND LEVEL MESSAGE CHAIN
74	ECTPCMD	8		PRIMARY COMMAND NAME
7C	ECTSCMD	8		SUBCOMMAND NAME
84	ECTSWS	1	T*7	ECT SW
	Values Defined in ECTSWS			
80	ECTNOPD			0 BIT=ON, NO OPERANDS EXIST IN COMMAND
20	ECTATRM			CP TERMINATED BY TMP DETACH W/ STAE
10	ECTLOGF			LOGON/OFF REQUESTED TMP TO LOG OFF
08	ECTNMAL			NO USER MESSAGES RECEIVED AT LOGON
04	ECTNNOT			NO BRDCST NOTICES TO BE RECEIVED
85	ECTDDNUM	3		COUNTER FOR GEN TEMPORARY DDNAMS
88	ECTUSER	4		RESERVED FOR INSTALL

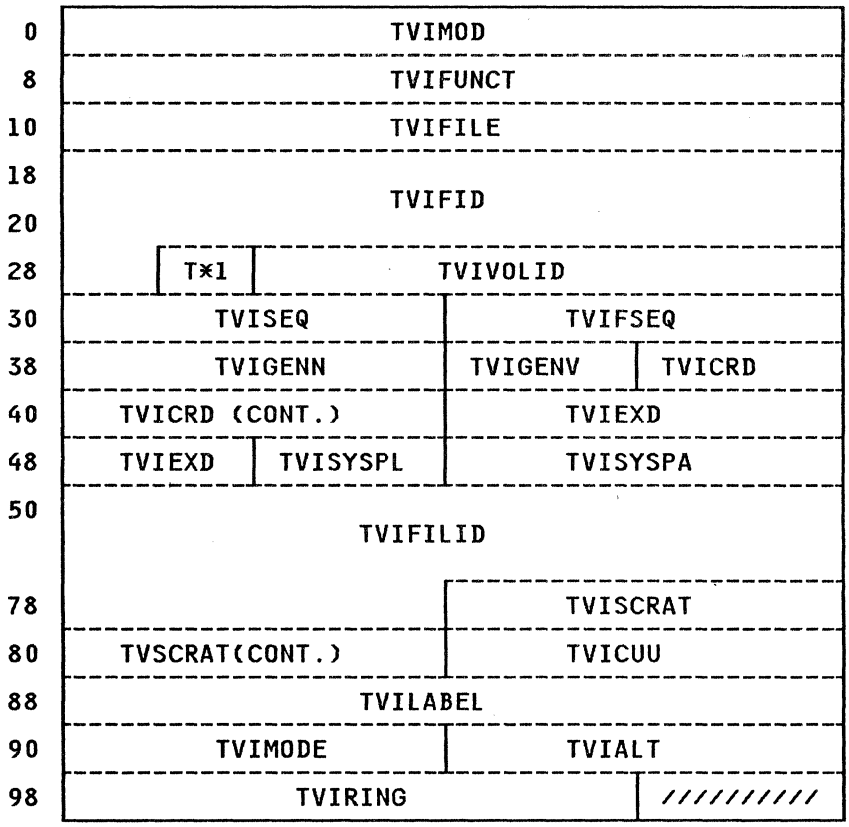
CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

CPPL	0000 ..	ECTNNOT	0084 04	PSCBATR2	0032 ..	PSCBUSRL	0027 ..
CPPLECT	000C ..	ECTNOPD	0084 80	PSCBCTRL	0030 80	UPT	0010 ..
CPPLOBUF	0000 ..	ECTPCMD	0074 ..	PSCBGPNM	0028 ..	UPTALD	001C 04
CPPLPSCB	0008 ..	ECTRCDF	0068 ..	PSCBJCL	0030 20	UPTCDEL	001D ..
CPPLUPT	0004 ..	ECTRTCD	0069 ..	PSCBRLGB	0050 ..	UPTDEL	001E ..
ECT	0068 ..	ECTSCMD	007C ..	PSCBRSZ	005C ..	UPTMID	001C 20
ECTATRM	0084 20	ECTSMSG	0071 ..	PSCBTCOL	004C ..	UPTNCOM	001C 10
ECTDDNUM	0085 ..	ECTSWS	0084 ..	PSCBU	0060 ..	UPTNPRM	001C 40
ECTIOWA	006C ..	ECTUSER	0088 ..	PSCBUPT	0054 ..	UPTPAUS	001C 08
ECTLOGF	0084 10	PSCB	0020 ..	PSCBUPTL	0058 ..	UPTSWS	001C ..
ECTMSGF	0070 ..	PSCBACCT	0030 40	PSCBUSER	0020 ..	UPTUSER	0012 ..
ECTNMAL	0084 08	PSCBATR1	0030 ..				

TVISECT: TAPE VOLUME PROCESSING INTERFACE DSECT

TVISECT is a PLIST that defines the input to a user supplied DMSTVI module. TVISECT is generated when the user invokes the TVISECT macro.



SIZE

TOTAL TVISECT LENGTH 160
SIZE OF ALL SECTIONS IN DBWRDS (TVISIZE) 14

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	TVIMOD	8		MODULE NAME FOR SVS 202('DMSTVI')
8	TVIFUNCT	8		CALL FUNCTION KEYWORD
				THE FOLLOWING FIELDS WILL BE FILLED IN FROM INFORMATION THAT IS STORED IN THE LABSECT. REFER TO THE LABELDEF COMMAND FOR MORE INFORMATION ABOUT THESE FIELDS.
10	TVIFILE	8		DDNAME
18	TVIFID	17		FILE ID (RIGHTMOST 17 CHARACTERS)

DISP	NAME	LEN	KEY	DESCRIPTION
29	TVISEC	1	T*1	SECURITY TYPE
2A	TVIVOLID	6		VOLUME ID TO BE MOUNTED
30	TVIVSEQ	4		VOLUME SEQUENCE NUMBER
34	TVIFSEQ	4		FILE SEQUENCE NUMBER
38	TVIGENN	4		GENERATION NUMBER
3C	TVIGENV	2		GENERATION VERSION
3E	TVICRD	6		CREATION DATE
44	TVIEXD	6		EXPIRATION DATE
4A	TVISYSPL	4		LENGTH OF SYSPARM STRING
4C	TVISYSPA	4		ADDRESS OF SYSPARM STRING
50	TVIFILID	44		FILE IDENTIFIER
7C	TVISCRAT	8		SCRATCH/NOSCRATCH SPECIFIED AS LABELDEF VOLID

THE FOLLOWING FIELDS WILL BE FILLED IN FROM INFORMATION THAT IS STORED IN THE FCBSECT (SUPPLIED BY THE FILEDEF COMMAND).

84	TVICUU	4		VIRTUAL DEVICE ADDRESS(TAP0-TAPF)
88	TVILABEL	8		SL - LABEL PROCESSING
90	TVIMODE	4		DENSITY / TRACK

TVIMODE (DENSITY AND TRACK):

NOTE: ODD/EVEN — IS THE PARITY
CV — IS DATA CONVERSION
TR — IS BCD/EBCDIC TRANSLATION

B'11001011'	800 BPI/9 TRACK
B'10010011'	800 BPI/ODD/CV- ON/TR- OFF
B'10111011'	800 BPI/ODD/CV- OFF/TR- ON
B'10110011'	800 BPI/ODD/CV- OFF/TR- OFF
B'10101011'	800 BPI/EVEN/CV- OFF/TR- ON
B'10100011'	800 BPI/EVEN/CV- OFF/TR- OFF
B'01010011'	556 BPI/ODD/CV- OFF/TR- OFF
B'01111011'	" " "
B'01110011'	" " "
B'01101011'	" " "
B'01100011'	" " "
B'00010011'	200 BPI/ODD/CV- ON/TR- OFF
B'00111011'	" " "
B'00110011'	" " "
B'00101011'	" " "
B'00100011'	" " "
B'11000011'	1600 BPI/ 9TRACK
B'11010011'	6250 BPI/ 9TRACK
B'11011011'	38K BPI/ 18TRACK

94	TVIALT	4		ALTERNATE TAPE DRIVE TAPE ID
98	TVIRING	6		RING/NORING - WRITE ENABLE RING
9E		2		UNUSED
A0	TVIEND	0		END OF TVISECT

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

TVIALT	0094	..	TVIFILID	0050	..	TVILABEL	0088	..	TVISEC	0029	..
TVICRD	003E	..	TVIFSEQ	0034	..	TVIMOD	0000	..	TVISYSPA	004C	..
TVICUU	0084	..	TVIFUNCT	0008	..	TVIMODE	0090	..	TVISYSPL	004A	..
TVIEXD	0044	..	TVIGENN	0004	..	TVIRING	0098	..	TVIVOLID	002A	..
TVIFID	0018	..	TVIGENV	003C	..	TVISCRAT	007C	..	TVIVSEQ	0030	..
TVIFILE	0010	..									

USAVE: USER SAVE AREA

USAVE is used by DMSITS to allocate and free save areas for other routines during SVC processing; it is pointed to by the USAVEPTR field in SSAVE. USAVE is invoked via the SVCSAVE macro.

SIZE

USER SAVE AREA SIZE IN DOUBLEWORDS (USAVESZ) 12

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

USAVESZ 18

USERSECT: USER WORK AREA

USERSECT describes the USERSECT block which is a general scratch storage area provided for user-defined purposes. It may be redefined to suit installation requirements. USERSECT is pointed to by the AUSER field in NUCON.

HEX DISP	NAME	LEN	KEY	DESCRIPTION
0	USCRTCH	72		

CROSS REFERENCE (Name Disp Value)

This cross reference contains all the labels defined above as well as any general equates that the copy file may contain.

```
USCRTCH  0000 ..
USERSECT 0000 ..
```

To obtain editions of this publication pertaining to earlier releases of VM/SP, you must order using the pseudo-number assigned to the respective edition. For:

Release 4, Order LT00-1606

Release 3, Order LT64-5221

Release 2, Order LQ60-0891

Release 1, Order LQ60-0891 Which includes TNLs to support Release 2.

Summary of changes
To LY24-5221-2
for VM/SP Release 5

MAJOR CHANGES

New: Additions

Eleven new data areas have been added to this volume -- CPRB, CQYSECT, DMSFCACH, DMSFCHIN, DMSVIPWK, FLANGBLK, PARSERCB, PARSERUF, PVCENTRY, TRANTBL, and TVISECT.

Changed: Control Blocks

Minor changes have been made to many data areas in support of Release 5. The changed files can be located by the revision bar to the left of the page.

Summary of changes
To LY24-5221-1
for VM/SP Release 4

MAJOR CHANGES

New: Additions

Five new data areas have been added to this volume -- EXISBLOK, FBLOCK, HASHTAB, HYPMAP, AND PMXMBLOK.

XEDIT and EDIT DSECTS have been removed. These include DESTYP, EDCB, LSCREEN, PRSCB, RECSAVE, REQDES, SAVEREG, SYNSUB, ZDESC, ZFONC, ZMACST, and ZPACK.

Changed: Control Blocks

Minor changes have been made to many data areas in support of Release 4.

Summary of Changes
to LY24-5221-0
For VM/SP Release 3

MAJOR CHANGES

Changed: Book Structure

The original Data AREA and Control Block Logic book has been reorganized and divided into two separate volumes. See the preface for more information.

New: Additions

Ten new data areas have been added to this volume. ABNXTCB, CMSLEVEL, COMCLIST, IMMBLOK, IMWKSECT, IUCVIDBK, IUCVPTBK, IUCVTAB, RTXSBFLD, SVCWORK.

Changed: Control Blocks

The following is a complete listing of the data areas that have been modified in this publication: ADTSECT, DESTYP, DEVTAB, EPLIST, FCBSECT, FRDSECT, FVSECT, IHADECB, LSCREEN, NUCON, OPSECT, PARMLIST, PROPCOM, PRSCB, QEL, RECSAVE, RTDSECT, SCBLOCK, SYNSUB, SYSNAMES, TOKLIST, ZDESC, ZFONC.

MISCELLANEOUS CHANGES

Changed: Documentation Only

Minor technical and editorial changes have been made throughout this publication.

Summary of Changes
to LY20-0891-1
as updated by LN24-5717

MAJOR CHANGES

New: Additions

Thirteen data areas are added to this book. Four new CP areas are INTBLK, PFDATA, PFKTABLE AND RETBUF. NINE NEW CMS AREAS ARE EPLIST, LOGFBFMT, PARMLIST, PROPCOM, PROPTAB, QEL, RTDSECT, SHVBLOCK AND, TOKLIST. Minor changes have been made to many other data areas and control blocks.

MISCELLANEOUS CHANGES

Changed: Documentation Only

Minor technical and editorial changes have been made throughout this publication.

Summary of Changes
to LY20-089J-1
for VM/SP Service Level 106

MAJOR CHANGES

New: Format

This revision provides an easier to use format. The following are included in the new format.

Graphic representations of the data areas and control blocks.

All displacements are given in hexadecimal.

Data area size values are given in hexadecimal numbers as compared to bit patterns in past editions.

Bit values immediately follow the corresponding byte definition.

The cross reference has a heading to describe what values it represents.

Five data areas, MNCHLIST, ORDBLOK, PDSSECT, VBFBLOK and VMPSCOM, are added to the book. In addition, minor changes have been made to many other data areas and control blocks.

MISCELLANEOUS CHANGES

Changed: Documentation Only

Minor technical and editorial changes have been made throughout this publication.

TERMINOLOGY

The following terms in this publication refer to the indicated support devices:

- 2305" Refers to IBM 2305 Fixed Head Storage, ModelS 1 AND 2.
- "270X" Refers to IBM 2701, 2702, and 2703 transmission control units or the integrated communications adapter (ICA) on the System/370 Model 135.
- "2741" Refers to the IBM 2741 and the 3767, unless otherwise specified.
- "3066" Refers to the IBM 3066 System Console.
- "3081" Refers to the IBM 3081 Processor Unit Model D16.
- "3262" Refers to the IBM 3262 Printer, Models 1, 5, and 11.
- "3270" Refers to a series of display devices, namely, the IBM 3275, 3276, 3277, 3278, 3279 Display Stations, and the 3290 Information Panel. A specific device type is used only when a distinction is required between device types.

Information about display terminal usage also applies to the IBM 3138, 3148, and 3158 Display Consoles when used in display mode, unless otherwise noted.

Any information pertaining to the IBM 3284 or 3286 Printer also pertains to the IBM 3287, 3288, and 3289 Printers, unless otherwise noted.

- "FB-512" Refers to the IBM 3310 and 3370 Direct Access Storage Devices.
- "3330" Refers to the IBM 3330 Disk Storage, Models 1, 2, or 11; the IBM 3333 Disk Storage and Control, Models 1 or 11; and the 3350 Direct Access Storage operating in 3330/3333 Model 1 or 3330/3333 Model 11 Compatibliity Mode.
- "3340" Refers to the IBM 3340 Disk Storage, Models A2, B1, and B2, and the 3344 Direct Access Storage Model B2.
- "3350" Refers to the IBM 3350 Direct Access Storage Models A2 and B2 in native mode.
- "3370" Refers to the IBM 3370 Direct Access Storage Model.
- "3375" Refers to the IBM 3375 Direct Access Device.
- "3380" Refers to the IBM 3380 Direct Access Storage. The Speed Matching Buffer Feature (NO. 6550) for the 3380 supports the use of extented count-key-data channel programs.
- "3430" Refers to the IBM 3430 Magnetic Tape Subsystem.
- "3480" Refers to the IBM 3480 Magnetic Tape Subsystem.
- "370X" Refers to IBM 3704 and 3705 Communications Controllers.
- The term "3705" refers to the 3705 I and the 3705 II unless otherwise noted.
- "3800" Refers to the IBM 3800 Printing Subsystems, Models 1, 3, and 8. A specific device type is used only when a distinction is required between device types. References to the 3800 Model 3 apply to both models 3 and 8 unless otherwise explicitly stated. The IBM 3800 Model 8 is available obly in selected world trade countries.
- "4245" Refers to the IBM 4245 Line Printer.
- "4248" Refers to the IBM 4248 Printer.
- "4250" Refers to the IBM 4250 Printer.
- "4361" Refers to the IBM 4361 Model Groups 3, 4, and 5 Processor.
- "4381" Refers to the IBM 4381 Model Groups 1 and 2 Processor.

PRE-REQUISITE PUBLICATIONS

To use this publication effectively and to understand it thoroughly, the following publications are prerequisite:

IBM System/370 Principles of Operation, GA22-7000

IBM OS/VS, DOS/VS, and VM/370 Assembler Language, GC33-4010

RELATED PUBLICATIONS

This publication should be used in conjunction with:

Virtual Machine/System Product:

- System Logic and Problem Determination Guide,
  - Volume 1 (CP), Order No. LY20-0892
  - Volume 2 (CMS), Order No. LY20-0893
- System Reference for CP Order No. SC24-5285
- System Reference for CMS Order No. SC24-5286
- Library Guide, Glossary, and Master Index, Order No. GC19-6207

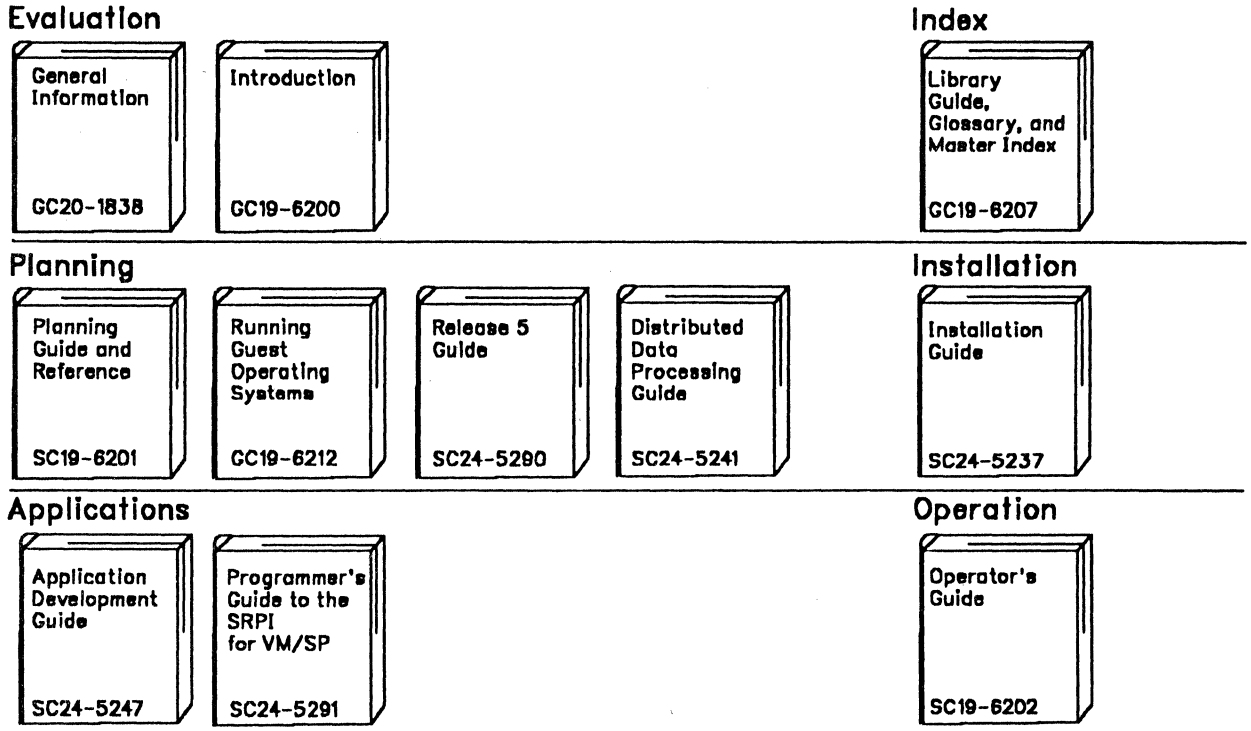
Virtual Machine:

- System Facilities for Programming Order No. SC24-5288
- Diagnosis Guide Order No. LY24-5241

The following communications provide information about the VTAM Communications Network Application (VM/VCNA) Program Product.

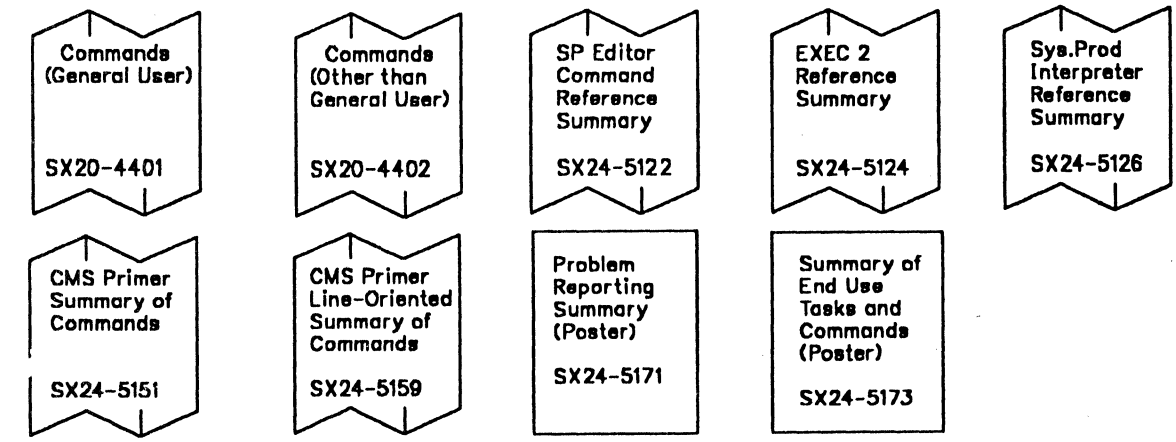
- IBM VM/VCNA General Information, Order No. GC27-0501
- IBM VM/VCNA Installation, Operation, and Terminal Use, Order No. SC27-0502

The VM/SP Library (Part 1 of 3)



Reference Summaries

To order all of the Reference Summaries, use order number SBOF-3242



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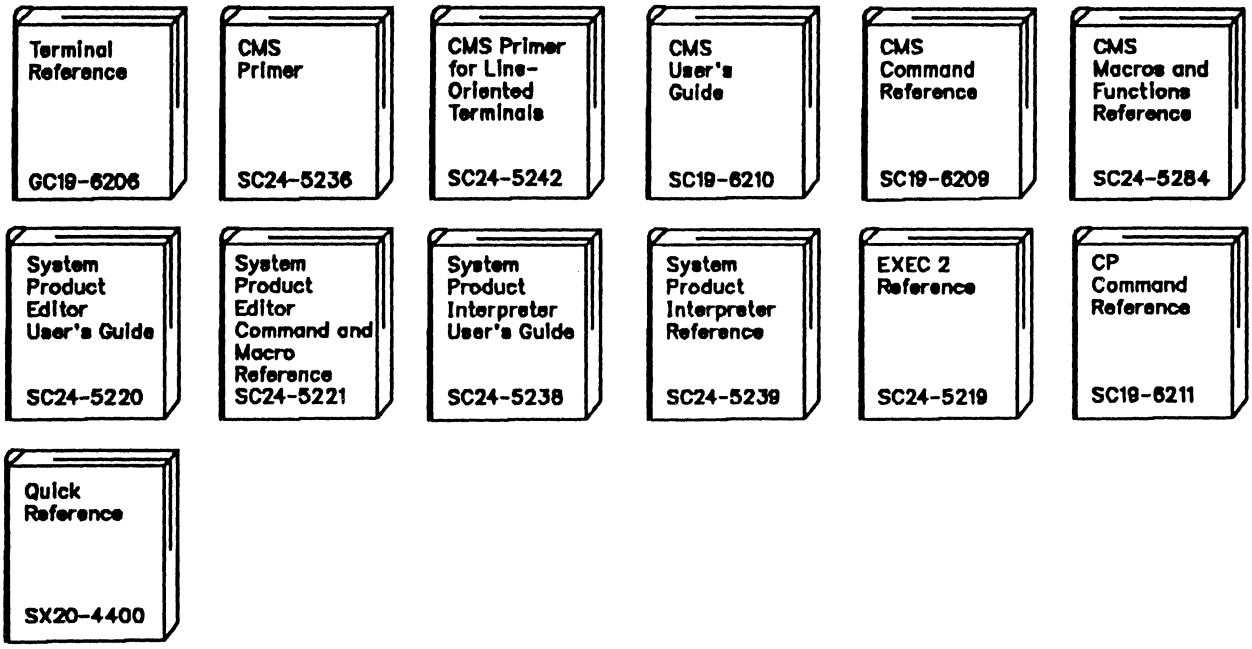
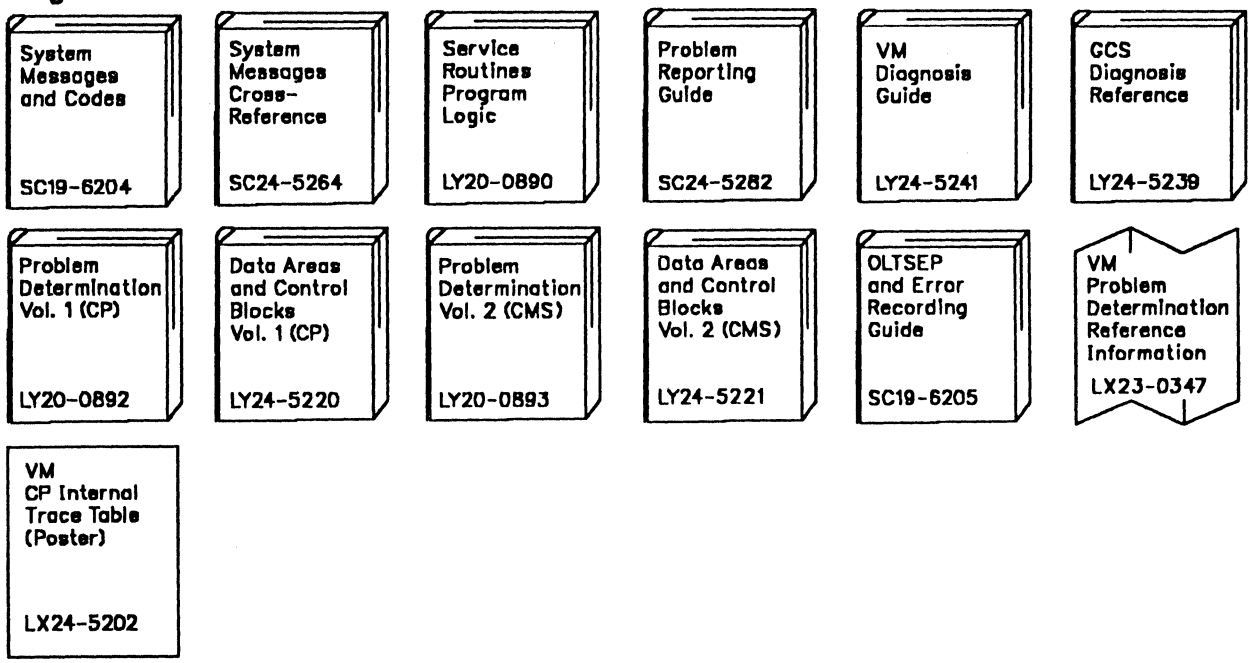


Diagnosis



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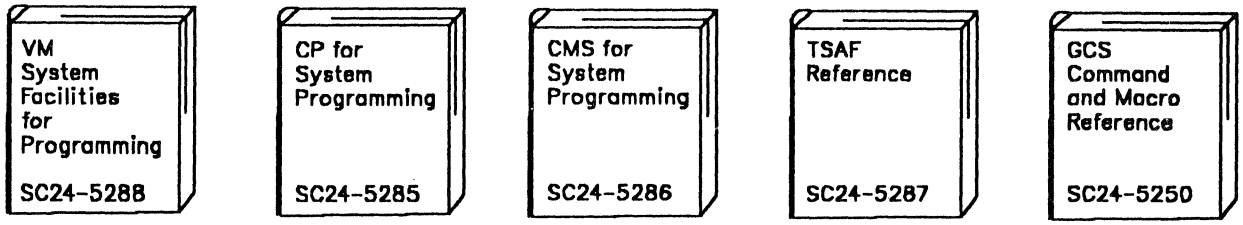
Administration



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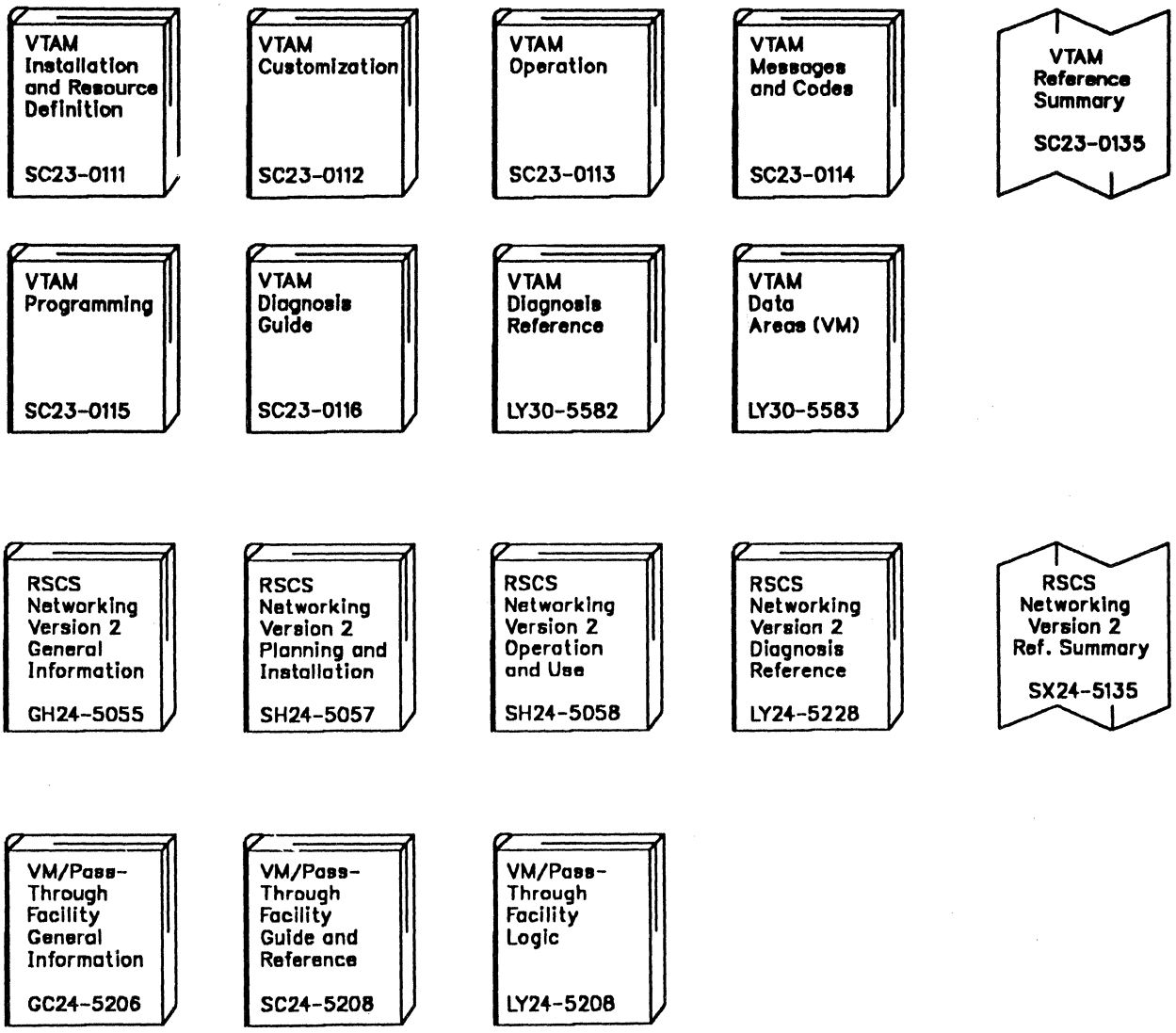

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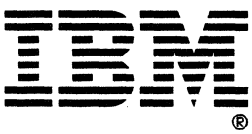

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