

13:34 SEP 08, '75 ID#00E1
JOB :POST, BRU333323132,7 • TERMINAL JOB
LIMIT (CORE,16), (TIME,10)
ASSIGN M,CI, (FILE,CALPROF,;D00CI)
METASYM CI,L0,CN
•SS R1,R2,R3,R0,R4,R5,R6,R7,R8,R9,R10,R11,R12,R13
•SS R14,R15,SR1,SR2,SR3,SR4,D1,D2,D3,D4,*
•END

PLEASE RETURN
PAGE 12 JAM
~

ADDR1ADDR					
AGER	167=DATA	271/LD			
ANLZSB	159=EGU	313/STS			
ANLZ1	183=BAL	195/BANZ			
ANLZ2	185/BGEZ	187=LW			
BA	191/BEZ	193=AW			
BADCAL	425/EQU	425/EQU			
BUFF1	367/BE	447/BEZ	481/B	490=LI	
BUFF2	169/PZE	170/GEN	171/PZE	172/GEN	337/LI
BUFX	330/LI				
BUF1MSK	324/AND	334/AND			
BUF2MSK	323/LI	333/LI			
CICAL					
CALBAD	145/SREF	178/MTW	226/MTW		
CALCK	119/REF	286/B	491/B		
CALPROC	117/REF	214/B			
CAL1	83/DEF	155=EGU			
CAL1PSD	203/BGEZ	206=AI			
CAL1P11	135/REF	372/AND			

CAL11	84/DEF	174= EQU		
CAL11DCB	215/B	219= EQU		
CAL11FPT	265= EQU			
CAL11M	288/BCS	325/BEZ	342= EQU	
CAL11MAP	223/B	227= RES		
CAL11NB	269/BCR	309= EQU		
CAL11N3	86/DEF	225= EQU		
CAL11N7	85/DEF	224= LB		
CAL11X	98/REF	160/ EQU	161/ EQU	359/ BL
CAL12	275= EQU	289/B	294/ BE7	
CC1RST	216/B	433= LI		
CHKCAL1	125/REF	501/B		
CHKCAL2	364= CB	482/ BDR		
CHKCAL3	365/ BNE	482= BDR		
CHKCAL4	435= CB	480/ BDR		
CHKENG	436/ BNE	480= BDR		
CHKRLBP3	445= EQU	463/B	464/B	
CLSSEG	363= LI			
	100/REF	429/ OVERTO		

CVREG	183/BAL	186/BAL	204/BAL	492=CI
C1TV	211/BLE	213=ESU	217/ESU	
C11CDS	364/CB	392=RES		
C11TV	369/EXU	370=ESU	469/B	488/B
C12CDS	435/CB	470=RES		
C12TV	438/EXU	441/BE	455=ESU	465/ESU
DEVCD8	409=RES	425/ESU	486/CB	
DLTSEG	101/REF	430=OVERT0		
ENG	124/SREF	450/B		
EPCLS	377/LI	429=OVERT0		
EPCVOL	378/LI	431=OVERT0		
EPDEL	382/LI	430=OVERT0		
EPMOVE	388/LI	432=OVERT0		
EP0PN	379/LI	428=OVERT0		
G0RDWT1	161=ESU	350/BE		
HICAL	210/CI	217=ESU		
I0CHEK	116/REF	355/BE		
I0DTY0VLY	442=ESU			
I0DTYSEG				

I0SDEV	102/REF	443/LI				
I0SPRTN	112/REF	484/LI				
I0SPRTNM	91/DEF	346/LI	449/LI	538=EQU		
JIBASE	468/LI	536=LI				
JICALCNT	150/REF	182/STW	192/LW*	198/AW	494/AW	537/LW*
JIDCBLINK	144/REF	179/MTW	212/MTW	311/LW		
JIJIT	141/REF	273/AND				
JBIPROMPT	138/REF	287/LC	373/CI			
JXICMAP	146/REF	499/LI				
JXBUFVP	149/REF 339/STORE	169/PZE	171/PZE	331/LOAD	332/STORE	338/LOAD
LBLTSEG	148/REF	329/AI	336/AI			
MIUC	103/REF	431/OVERT0	432/OVERT0			
MIXX	136/REF	163/PZE	366/CI			
M#UCM#XX	137/REF	164/PZE				
MERC	163=PZE	267/CLM				
MERCAL	115/REF	434/LI				
MISOVLY	459/B	467=EQU				
MISOVSEG	368/LI	452=EQU				

M0NPR0C	104/REF	453/LI	
	3=SET		
MSRKEY	451=LI	458/LI	
MSRKEY#	110/REF	451/LI	
MSR0CTY	113/REF	462/LI	
MSRTFILE#	109/REF	386/LI	
MSRTYPR	114/REF	460/LI	461/LI
M17	152/REF	266/AND	
M3	151/REF	190/AND	
NC11DEVS	425=EGU	485/LI	
NC11S	363/LI	390=EGU	
NC12S	433/LI	465=EGU	
0PNSEG	99/REF	428/OVERT0	
PFIL#	105/REF	380/LI	
PRECRD#	106/REF	381/LI	
QT	123/SREF	446/LI	
REW#	107/REF	383/LI	
SIBUFMCD	88/DEF	169=PZE	340/LD
SETFLG1	160=EGU	348/BE	

S69PROC

2-SET

T:ACCTOV

129/REF

550/B

T:JOBENT#

111/REF

389/LI

T:OVERLAY

121/REF

444/B

454/B

T:STPMT

282/BE

498-EQU

TRAPEXIT

127/REF

207/LI

387/B

439/LI

457/B

540/BEZ

TRNC

120/REF

385/LI

TSTACK

139/REF

181/AW

221/MSP

277/MSP

362/MSP

541/LW

TXTCFU

140/REF

296/CW

WA

169/PZE

171/PZE

WE0F#

108/REF

384/LI

11D01

291-CW

302/BCS

11D1

292/BL

306-AI

11D2

301/BCR

307-CW

11D4

268/BCS

271-LD

11D5

270/BCR

287-LC

11D6

274/BNEZ

295-LW

11D8

297/BE

299-AI

308/BNE

11M1

11M2	328/BEZ	333=LI	
4241724	335/BEZ	340=LD	
IBIG	165=DATA	272/LD	
	142/REF	340/LD	340/LD

H01 13:34 SEP 08, 1955

1
2 00000001
3 00000001
4
5

M	CALPRBC	CAL1 DISPATCHER
S69PRBC	SET	1
M8NPRBC	SET	1
	PCC	0
	SYSTEM	UTS

7

P NAME: CALPROC

9

P PURPOSE:

10

P TO PERFORM THE INITIAL DECODING OF THE CAL1,1

11

P AND CAL1,2 (I/O RELATED) CALS AND TRANSFER

12

P TO THE APPROPRIATE SERVICE MODULE

13

P THIS MODULE ALSO CONTAINS A COMMON EXIT POINT

14

P FOR I/O CALS, IOSPRTN, WHICH ASCERTAINS

15

P IF AN ABNORMAL OR ERROR CONDITION OCCURRED DURING

16

P THE CAL PROCESSING AND TAKES APPROPRIATE ACTION

18

P DESCRIPTION:

19

P THERE ARE THREE MAJOR ROUTINES WITHIN THIS MODULE

21

P CAL1P11 - FOR STANDARD CAL1 PROCESSING

22

P IN THIS ROUTINE THE INITIAL DECODING OF THE CAL

23

P IS PERFORMED ENDING IN A SWITCH BEING EXECUTED ON THE

24

P R-FIELD OF THE CAL, IF IT IS NOT A CAL1,1 OR CAL1,2

25

P THEN CONTROL IMMEDIATELY GOES TO ALTCP FOR

26

P FURTHER PROCESSING,

27

P IF IT IS A CAL1,2 THEN THE CODE IS CHECKED AND CONTROL

28

P TRANSFERRED TO THE APPROPRIATE SERVICE MODULE

29

P IF IT IS A CAL1,1 THEN CONTROL PASSES INTO THE FAST

30

P CAL PROCESSING PATH

32

P CAL11N3 AND CAL11NB - FOR FAST CAL1,1 PROCESSING

33

P THIS ROUTINE VALIDATES THE DCB ADDRESS (INSURING THAT

34

P THE DCB IS EITHER IN THE DCB TABLE OR IS MIUC OR M:XX

35

P OR THE CAL IS AN MIPROMPT) AND ALSO

36

P IF THE DCB IS ASSIGNED TO A DISK FILE OR LABELLED TAPE

37

P THEN THE CORRECT PHYSICAL PAGE IS PUT INTO CMAP

38

P IN THE WINDOW SLOTS (BUFF1 AND BUFF2) AND THE

39

P MAP FOR THOSE PAGES IS RELOADED

40

P THE ROUTINE THEN DECODES THE SPECIFIC FPT

41

P FUNCTION CODE AND TRANSFERS CONTROL TO THE

42

P APPROPRIATE SERVICE MODULE

H01 13134 SEP 08 175

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P
P
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P
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P

10
IOSPRTN * FINAL EXIT FROM ALL CALIS
IF NO ERROR HAS BEEN DETECTED THIS ROUTINE EFFECTS
AN IMMEDIATE RETURN TO TRAPEXIT IN SCHED
WHICH CAUSES THE TRAP PSD (FROM THE ISSUING CAL1)
TO BE INCREMENTED BY 1.
IF AN ERROR HAS BEEN DETECTED THEN THE USER'S PSD IS
MODIFIED TO REFLECT HIS ERROR OR ABNORMAL
ADDRESS AND RETURN IS MADE TO SCHED AT T1ACCTOV
SUCH THAT NO ADJUSTMENT IS MADE TO THE PSD.

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55
56 000000n0
57 000000n1
58 000000n2
59 000000n3
60 000000n4
61 000000n5
62 000000n6
63 000000n7
64 000000n8
65 000000n9
66 000000nA
67 000000nB
68 000000nC
69 000000nE
70 000000nF
71 000000n8
72 000000n9
73 000000nA
74 000000nB
75 000000nC
76 000000nD
77 000000nE
78 000000nF

*
R0 EQU
R1 EQU
R2 EQU
R3 EQU
R4 EQU
R5 EQU
R6 EQU
R7 EQU
SR1 EQU
SR2 EQU
SR3 EQU
SR4 EQU
D1 EQU
D3 EQU
D4 EQU
R8 EQU
R9 EQU
R10 EQU
R11 EQU
R12 EQU
R13 EQU
R14 EQU
R15 EQU

SYMBOLIC REGISTER DEFINITIONS.

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```

80 *
81 *      DEFS
82 *
83      DEF      CALPROC      MODULE DEF FOR PATCHING
84      DEF      CAL1P11      ENTRY FOR STANDARD CAL PROCESSING
85      DEF      CAL11N3      ENTRY FOR FAST CAL1,1 PROCESSING
86      DEF      CAL11NB      ENTRY FOR FAST CAL1,1 PROCESSING
87      *,*      WHEN FUNCTION CODE ALREADY IN R8
88      DEF      $IBUFMCD      MAP CONTROL DOUBLEWORDS
89      *,*      (NOT $IBIG FOLLOWED BY $BIG)
90      *,*      FOR MAPPING BUFF1 & BUFF2.
91      DEF      IOSPRTN      ENTRY FOR COMMON EXIT POINT FOR MOST
92      *,*      I/O CALLS

```

94	*			
95	*		REFS	
96	*			CAL ROUTINES (MONITOR SERVICES)
97	*			
98		REF	CAL11N7	EXIT TO PROCESS READ/WRITE CALS
99		REF	OPNSEG	OPEN OVERLAY SEGMENT NUMBER
100		REF	CLOSESEG	CLOSE OVERLAY SEGMENT NUMBER
101		REF	DLTSEG	CLOSE OVERLAY SEGMENT NUMBER
102		REF	IDTYSEG	OPENTP OVERLAY SEGMENT NUMBER
103		REF	LBLTSEG	LTAPE OVERLAY SEGMENT NUMBER
104		REF	MISOVSEG	MISOV OVERLAY SEGMENT NUMBER
105		REF	PFIL#	ENTRY POINT FOR PFIL CAL IN MISOV
106		REF	PRECORD#	ENTRY POINT FOR PRECORD CAL IN MISOV
107		REF	REW#	ENTRY POINT FOR PFIL CAL IN MISOV
108		REF	WEOF#	ENTRY POINT FOR WEOF CAL IN MISOV
109		REF	MSRFILE#	ENTRY POINT FOR TFILE CAL IN MISOV
110		REF	MSRKEY#	ENTRY POINT FOR KEYIN CAL IN MISOV
111		REF	TJOBENT#	ENTRY POINT FOR JOB CAL IN MISOV
112		REF	IOSDEV	EXIT TO SET UP DEVICE DEPENDENT OPTS
113		REF	MSRACTY	EXIT TO PROCESS PRINT/MESSAGE CALS
114		REF	MSRTPR	EXIT TO PROCESS TYPE CALS
115		REF	MERC	EXIT TO PROCESS MERC CALS
116		REF	IOCHK	EXIT TO PROCESS CHECK CALS
117		REF	CALCK	EXIT TO PROCESS CALS OTHER
118	**			THAN CAL1,1 & CAL1,2
119		REF	CALBAD	EXIT FOR BAD CAL PROCESSING
120		REF	TRNC	EXIT TO PROCESS TRUNC CALS
121		REF	TIOVERLAY	EXIT TO LOAD A MONITOR OVERLAY
122	**			AND REMEMBER A RETURN
123		SREF	QT	MONITOR RESIDENT ENQUEUE TABLES
124		SREF	END	EXIT TO PROCESS ENQUEUE/DEQUEUE CALS
125		REF	CC1RST	EXIT WHEN CC1 TO BE RESET WHEN
126	**			RETURN TO CAL+1
127		REF	TRAPEXIT	EXIT IN SCHED AT COMPLETION OF I/O
128	**			CAUSES TRAP PSD TO BE BUMPED 1
129		REF	TIACTOV	EXIT TO SCHED AT COMPLETION OF I/O
130	**			WHEN PSD NOT TO BE CHANGED

131	*			
132	*	REFS		
133	*		GENERAL DATA	
134	*			
135		REF	CAL1PSD	PSD OF THE CAL1 BEING PROCESSED
136		REF	M:UC	M:UC DCB ADDRESS
137		REF	M:XX	M:XX DCB ADDRESS
138		REF	J:JIT	THE JIT
139		REF	TSTACK	THE TSTACK
140		REF	TXTCFU	TEXTC OF M:*
141		REF	J:DCBLINK	ADDRESS OF DCB TABLE
142		REF	IBIG	FLAG TO INDICATE SYSTEM GENERATED FOR > 128K CORE (1 = YES)
143	*,*			
144		REF	J:CALCNT	CAL1 COUNT FOR CURRENT USER
145		SREF	CICAL	TOTAL # OF CAL1S
146		REF,1	J:BPROMPT	CURRENT PROMPT CHARACTER FOR USER AS BYTE ADDRESS
147	*,*			
148		REF	JXBUFVP	VP # START OF JIT MAP IMAGE
149		REF	JXICMAP	PHYSICAL PAGE TABLE
150		REF	J:BASE	CONTAINS PTR TO USERS REGS IN TSTACK
151		REF	M3	MASK
152		REF	M17	MASK

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155 01 00000

156
157
158
159 00000009
160 EXT
161 EXT
162
163 01 00000 00000000 X
164 01 00001 00000000 X
165 01 00002 04000000 A
166 01 00003 07FFFFFF A
167 01 00004 0001FFFF A
168 01 00005 0001FFFF A
169 01 00006 00000012 N
170 01 00007 01009000 A
171 01 00008 00000025 N
172 01 00009 01009400 A

CALPR0C EQU *

*
*
*
AGER EQU 9 DCB WD9 HAS CAL AGE,BUFF ADDRESSES
SETFLG1 EQU CAL11N7
G0RDWT1 EQU CAL11N7
BBUND 8
M#UCM#XX PZE M:UC ADDRESSES OF M:UC AND
PZE M:XX MIXX DCBS FOR CLM INSTRUCTION.
424:724 DATA X'04000000' SMALLEST 2-WORD DCB NAME.
DATA X'07FFFFFF' LARGEST 2-WORD DCB NAME.
ADDR:ADDR DATA X'0001FFFF' DOUBLEWORD CONTAINING TWO
DATA X'0001FFFF' ADDRESS MASKS.
\$IBUFMCD PZE WA(JX:CMAP)+BUFF1***9/4 MAP BUFF1/BUFF2 ON
GEN,8,24 1,BUFF1&X:1F800' 128K MACHINE.
PZE WA(JX:CMAP)+BUFF1***9/2 MAP BUFF1/BUFF2 ON
GEN,8,24 1,BUFF1&X:1FC00' >128K MACHINE.

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174      01 0000A      32600000 A
175      01 0000B      33100000 X
176      01 0000C      33100000 X
177      01 0000D      221FFFF1 A
178      01 0000E      30100000 X
179      01 0000F      35100000 X
180      01 00010      6A4000DD
181      01 00011      52B00006 A
182      01 00012      68100014
183      01 00013      6A4000DD
184      01 00014      32E00006 A
185      01 00015      3260000B A
186      01 00016      2560007F A
187      01 00017      4B600000 X
188      01 00018      6830001A
189      01 00019      B26C0000 X
190      01 0001A      3060000E A
191      01 0001B      21B02000 A
192      01 0001C      69400010
193      01 0001D      2161FFF0 A
194      01 0001E      69400020
195      01 0001F      30600000 X
196      01 00020      2271FFFF A
197      01 00021      4B700006 A
198      01 00022      F2800006 A
199      01 00023      326E0000 A
200      01 00024      68100027
201      01 00025      6A4000DD
202      01 00026      208FFF80 A
203      01 00027      20700001 A
204      01 00028      22B00000 N
205      01 00029      2530007C A
206      01 0002A      21300002 A
    
```

```

CAL1P11 EQU *
          LW,6 0 L/ADDRESS OF CAL1 TRAP
* INCREMENT CAL COUNT FOR PERFORMANCE MONITOR IF IT EXISTS,
* ELSE INCREMENT REGISTER 0:
          MTW,1 CICAL
          MTW,1 JICALCNT
          LI,1 =15
          AW,1 TSTACK
          STW,1 JIBASE
ANLZSB BAL,4 CVREG GET CAL OR EXU
          LW,SR4 6 FOR EXU CHK AND INDEX
          BGEZ ANLZ1 SKIP IF NOT INDIRECT
          BAL,4 CVREG GET DIRECT ADDRESS
ANLZ1 LW,D3 6
          LW,6 SR4
          SLS,6 =1 ALIGN INDEX FIELD
          AND,6 M3 EXTRACT INDEX FIELD
          BEZ ANLZ2 SKIP IF NO INDEX
          LW,6 *JIBASE,6 GET INDEX VALUE
ANLZ2 AW,6 D3 ADD DIRECT ADDRESS
          CI,SR4 X'2000' CHK EXU
          BANZ ANLZSB UNDO EXU CHAIN
          CI,6 X'1FFF0' CHK REGISTER
          BANZ $+2 SKIP IF NOT
          AW,6 JIBASE REGISTER LOC IN STACK
          LI,R7 X'1FFFF'
          AND,R7 6 PLIST ADDRESS
          LB,SR1 *R6 TYPE OF CAL BYTE
          LW,6 0,R7 DCB ADDR
          BGEZ CAL1 SKIP IF NOT INDIRECT
          BAL,4 CVREG GET DIRECT DCB ADDRESS
          AI,SR1 =X'80' STRIP INDIRECT BIT
CAL1 AI,R7 1 POINT TO PRESENCE BITS
          LI,SR4 TRAPEXIT
* SR4 = EXIT ADDR., SR1 = CODE, R6 = FIRST WD OF PLIST.
          SLS,R3 =4
          CI,R3 HICAL
    
```

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211	01	0002B	6826002D		BLE	C1TV,R3
212	01	0002C	33F00000	X	MTW,-1	JICALCNT
213		01 0002D			EQU	\$
214	01	0002D	68000000	X	B	CALCK
215	01	0002E	68000030		B	CAL11
216	01	0002F	680000B2		B	CAL12
217		00000002			EQU	s=C1TV=1

C1TV

HICAL

```

219      01 00030      22100008 A
220      01 00030      22100008 A
221      01 00031      13100000 X
222      01 00032      207FFFFFFF A
223      01 00033      68000036
224      01 00034      72800006 A
225      01 00035
226      01 00035      33100000 X
227      01 00036
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
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246
247
248
249
250
251
252
253
254
255
    
```

```

CAL11    EQU          $
          LI,1        8
          MSP,1      TSTACK
          AI,7        *1
          B           CAL11M
          CAL11N3    LB,8        6
          CAL11NB    EQU          $
          MTW,1      CICAL
          CAL11M     RES          0
    
```

JUSTIFY
STACK

GET FUNCTION CODE

CAL11DCB TESTS VALIDITY OF A CAL1,1'S DCB ADDRESS. R6=DCB ADDRESS INPUT TO CAL11DCB, BUT WITH POSSIBLE HIGH-ORDER GARBAGE THAT MUST BE MASKED OFF. DCB ADDRESS IS LEGAL IF --

1. IT IS MIXX OR MIUC.
2. THE CAL1 FPT CODE (IN SR1) IS X'2C'. (THIS IS MIPC CAL, WHICH HAS NO DCB ADDRESS.)
3. DCB IS ON THE DCB NAMELIST. FORMAT OF NAMELIST -- JIDCBLINK CONTAINS WA(NAMELIST BLOCK). NAMELIST BLOCK CONSISTS OF ONE UNUSED WORD, THEN A STRING OF (TEXTC DCBNAME, DCB ADDRESS) ENTRIES, THEN A WORD WHICH IS ZERO OR THE ADDRESS OF ANOTHER NAMELIST BLOCK. IF THE FIRST TEXTC DCBNAME IN A BLOCK IS 'M:#!' (CFUDCB), IT ISN'T REALLY A DCB AND AN ADDRESS MATCH IS NOT A LEGAL DCB.

CAL11DCB IS ON THE FAST CAL PATH, SO IT IS CODED FOR SPEED. DCB-ON-NAMELIST IS ABOUT 20 TIMES AS PROBABLE AS MIXX/MIUC, BUT THE MIXX/MIUC CASE IS TESTED FIRST BECAUSE AN UNSUCCESSFUL NAMELIST SEARCH TAKES MORE LIKE 30 TIMES AS LONG AS THE MIXX/MIUC TEST. 90% OF DCB NAMES ARE 2 WORDS LONG. ABOUT 5 NAMELIST MISMATCHES OCCUR BEFORE THE DCB IS FOUND. MIPC AND ILLEGAL DCB ARE VERY RARE.

REGISTERS ---
R5 PRESERVED
R6 DCB ADDRESS, HIGH-ORDER GARBAGE ZERBED.

256
 257
 258
 259
 260
 261
 262
 263
 264
 265 01 00036
 266 01 00036 4B600000 X
 267 01 00037 19600000
 268 01 00038 6990003B
 269 01 00039 68C0005B
 270 01 0003A 68300046
 271 01 0003B 12200004
 272 01 0003C 12C00002
 273 01 0003D 48300000 X
 274 01 0003E 6930004D
 275 01 0003F 223FFFF8 A
 276 01 0003F 223FFFF8 A
 277 01 00040 13300000 X
 278
 279 01 00041 6A100000 X
 280
 281 01 00042 2180002C A
 282 01 00043 683000E2
 283
 284
 285 01 00044 22E000AF A
 286 01 00045 68000000 X
 287 01 00046 70200000 X
 288 01 00047 69C00072
 289 01 00048 6800003F
 290
 291 01 00049 31260000 A
 292 01 0004A 69100058

```

*D*
*D*
*D*
*D*
*D*
*D*
*D*
*D*
*D*
CAL11DCB EQU $
AND,R6 M17 S REMOVE GARBAGE FROM DCB ADDRESS.
CLM,R6 M#UCM#XX S TRY SPECIAL DCBS FIRST.
BCS,1*8 11D4 S ---> NO.
BCR,12 CAL11MAP ---> MIXX: MAP BUFFERS.
BCR,3 11D5 ---> M1UC: (MAY BE ILLEGAL)
11D4 LD,R2 ADDR,ADDR S R2/R3 ARE TWO ADDRESS-ONLY MASKS.
LD,R12 4241724 S R12/R13 ARE LIMITS OF 2-WORD TEXTC
AND,R3 J1DCBLINK S GET ADDRESS OF DCB NAMEDLIST.
BNEZ 11D6 S ---> GO TRY TO MATCH DCB ADDRESS.
CAL11X EQU $ *** ILLEGAL DCB ADDRESS.
LI,R3 #8
MSP,R3 TSTACK CRANK DOWN STACK TO USER ENVIRON.
*****
BLOCK SLAVE USER WILL BE PARKED HERE
*****
CI,SR1 X12C1 LAST CHANCE -- M1PC DOESNT USE DCB
BE T1STPMT ---> GOT M1PC CAL.
*E* ERROR AF=00.
*E* DESCRIPTION: CAL1,1 REFERENCES NONEXISTENT DCB.
LI,R14 X1AF1
B CALBAD
11D5 LC J1JIT M1UC IS A NO-NO IN BATCH.
BCS,12 CAL11FPT ---> M1UC: SKIP BUFFER MAPPING.
B CAL11X ---> ILLEGAL DCB ADDRESS.
*
11D01 CW,R2 0,R3 M1 DISTINGUISH 1-WD NAME, BLOCK END.
BL 11D1 M1 ---> 1 WORD DCBNAME.

```

R7 PRESERVED
 R8(SR1) FPT CODE, PRESERVED
 R3 OUTPUT POINTS TO 2 BEFORE DCB ADDRESS IN NAMEDLIST

+----- SETUP CODE EXECUTED ONCE
 |----- MULTIPLE NAMEDLIST BLOCK LOOP
 |1----- 1-WORD DCBNAME LOOP
 |11----- 2-WORD DCBNAME LOOP
 |111----- >2-WORD DCBNAME LOOP

VVVVV
 S REMOVE GARBAGE FROM DCB ADDRESS.
 S TRY SPECIAL DCBS FIRST.
 S ---> NO.
 ---> MIXX: MAP BUFFERS.
 ---> M1UC: (MAY BE ILLEGAL)
 S R2/R3 ARE TWO ADDRESS-ONLY MASKS.
 S R12/R13 ARE LIMITS OF 2-WORD TEXTC
 S GET ADDRESS OF DCB NAMEDLIST.
 S ---> GO TRY TO MATCH DCB ADDRESS.
 S *** ILLEGAL DCB ADDRESS.

CRANK DOWN STACK TO USER ENVIRON.

 SLAVE USER WILL BE PARKED HERE

 LAST CHANCE -- M1PC DOESNT USE DCB
 ---> GOT M1PC CAL.

DESCRIPTION: CAL1,1 REFERENCES NONEXISTENT DCB.
 X1AF1
 CALBAD
 J1JIT
 M1UC IS A NO-NO IN BATCH.
 ---> M1UC: SKIP BUFFER MAPPING.
 ---> ILLEGAL DCB ADDRESS.

DISTINGUISH 1-WD NAME, BLOCK END.
 ---> 1 WORD DCBNAME.

293	01	0004B	32360000	A	LW,R3	0,R3	M	BLOCK END. IS THERE A LINK...	
294	01	0004C	4830003F		BEZ	CAL11X	M	---> NO. ILLEGAL DCB ADDRESS.	
295	01	0004D	32160001	A	11D6	LW,R1	1,R3	SM	START OF NAMELIST BLOCK.
296	01	0004E	31100000	X	CW,R1	TXTCFU	SM	IS FIRST DCBNAME MI*...	
297	01	0004F	48300051		BE	11D8	SM	---> YES. SKIP IT.	
298	01	00050	203FFFFE	A	AI,R3	=2		NO. START WITH IT.	
299	01	00051	20300003	A	11D8	AI,R3	3	12> POINT TO NEXT DCBNAME.	
300	01	00052	39C60000	A	CLR,R12	0,R3		12> SEE HOW LONG DCBNAME IS ..	
301	01	00053	48600059		BCR,6	11D2		12> ---> 2 WORDS.	
302	01	00054	49200049		BCS,2	11D01		1 > ---> 1 WORD OR END OF BLOCK.	
303	01	00055	32160000	A	LW,R1	0,R3		> MORE THAN 2 WORDS LONG.	
304	01	00056	25100076	A	SLS,R1	=10		> GET #WORDS IN DCBNAME MINUS 1.	
305	01	00057	50300001	A	AH,R3	R1		> PRINT PAST NAME MINUS 1.	
306	01	00058	203FFFFFF	A	11D1	AI,R3	=1	1 > PRINT PAST NAME MINUS 2.	
307	01	00059	31660002	A	11D2	CW,R6	2,R3	12> LOOK FOR ADDRESS MATCH.	
308	01	0005A	49300051		BNE	11D8		12> ---> NOT FOUND, KEEP LOOKING.	
309	01	0005B			CAL11MAP	EDU	*	MAP DCB'S BLOCKING BUFFERS.	
310	01	0005B	22D007FC	A	LI,R13	X'11FF1**2			
311	01	0005C	32C00000	X	LW,R12	J;CALCNT		FIRST REMEMBER APPROXIMATELY WHEN	
312	01	0005D	25C0010D	A	SLD,R12	15=2		THE LAST CAL WAS DONE TO THIS DCB.	
313	01	0005E	47CC0009	A	STS,R12	AGER,R6		AGER(8=16) = J;CALCNT(21=29).	
314					*D*			MAP THE DCB'S BLOCKING BUFFERS.	
315					*D*			THIS CODE ASSUMES THAT THE BLOCKING BUFFER WINDOW	
316					*D*			PAGES ARE AN EVEN/ODD PAGE PAIR (BUFF1 EVEN),	
317					*D*			AND THAT THE BUFFER INDEX FIELDS IN THE DCB ARE	
318					*D*			IN THE SAME WORD, AND THAT THE BUFF2 INDEX IS	
319					*D*			BITS 22=26, AND THE BUFF1 INDEX IS BITS 27=31.	
320					*D*			WARNING! IF THE EVEN/ODD ASSUMPTION CHANGES,	
321					*D*			REMEMBER THAT LDMAP ONLY ACCESSES THE FIRST	
322					*D*			WORD OF MAP IMAGE MAPPED, & THEN GOES UNMAPPED.	
323	01	0005F	222003FF	A	LI,R2	BUF2MSK, BUF1MSK		MASK TO GET BUFFER INDEXES.	
324	01	00060	482C0009	A	AND,R2	BUF2,R6		GET BUFFER INDEXES.	
325	01	00061	48300072		BEZ	CAL11FPT		---> NO BUFFERS, DON'T MAP.	
326	01	00062	2520007B	A	SLS,R2	=5		GET BUFF2 INDEX.	
327	01	00063	20200000	A	AI,R2	0		ANY BUFF2...	
328	01	00064	48300069		BEZ	11M1		---> NO.	
329	01	00065	202FFFFFF	N	AI,R2	JXBUFVP,1		CONVERT INDEX TO CMAP PAGE.	

330	01	00066	2210004B	A	LI,R1	BUFF2***9	GET WINDOW PAGE NUMBER.	
331	01	00067	72C40000	N	LOAD,R12	JX:CMAP,R2	GET REAL PAGE NUMBER AND	
332	01	00068	75C20000	N	STORE,R12	JX:CMAP,R1	PUT INTO WINDOW MAP PAGE.	
333	01	00069	2220001F	A	11M1	LI,R2	BUF1MSK	NOW FOR BUFF1.
334	01	0006A	482C0009	A	AND,R2	BUFx,R6	ANY BUFF1...	
335	01	0006B	68300070		BEZ	11M2	---> NO.	
336	01	0006C	202FFFFFF	N	AI,R2	JXBUFVP-1	CONVERT INDEX TO CMAP PAGE.	
337	01	0006D	2210004A	A	LI,R1	BUFF1***9	GET WINDOW PAGE NUMBER.	
338	01	0006E	72C40000	N	LOAD,R12	JX:CMAP,R2	GET REAL PAGE NUMBER AND	
339	01	0006F	75C20000	N	STORE,R12	JX:CMAP,R1	PUT INTO WINDOW MAP PAGE.	
340	01	00070	12C00000	F	11M2	LD,R12	S:BUFMCD+:BIG+:BIG	GET THE PROPER MAP LOADING DW AND
341	01	00071	6FC80000	N	LDMAP,R12	0	LOAD THE MAP FOR THESE PAGES.	
342		01	00072		CAL11FPT	EQU	*	
343					*			
344					*			
345					*			
346	01	00072	228000E7		LI,SR4	18SPRTN		
347	01	00073	21800010	A	CI,8	16	BRANCH	
348	01	00074	68300000	X	BE	SETFLG1	IF READ	
349	01	00075	21800011	A	CI,8	17	BRANCH	
350	01	00076	68300000	X	BE	GORDWT1	IF WRITE	
351					*****			
352	01	00077	6A100000	X	BLOCK		SLAVE USER WILL BE PARKED HERE	
353					*****			
354	01	00078	21800029	A	CI,8	X'29'	BRANCH	
355	01	00079	68300000	X	BE	18CHEK	IF CHECK	
356	01	0007A	2180002D	A	CI,8	X'2D'	A-M READ	
357	01	0007B	6910007E		BL	*+3		
358	01	0007C	2180002F	A	CI,8	X'2F'		
359	01	0007D	69100000	X	BL	CAL11N7	A-M READ OR WRITE	
360	01	0007E	20700001	A	AI,7	1		
361	01	0007F	221FFFFFF8	A	LI,1	*8	JUSTIFY	
362	01	00080	13100000	X	MSP,1	TSTACK	STACK	
363	01	00081	2210000F	A	CHKRLOP3	LI,R1	NC118	
364	01	00082	7182009B		CHKCAL1	CB,SR1	C11CDS,R1	
365	01	00083	693000D3		BNE	CHKCAL2		
366	01	00084	21600000	N	CI,6	M,UC	IS IT UC DCB	

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ONLY READ/WRITE/DEV CALS ALLOWED

367 01 00085 683000DB
 368 01 00086 22F000C2
 369 01 00087 6702008B
 370 01 00088 2211FFFF A
 371 01 00088 4B100000 X
 372 01 00089 21100000 N
 373 01 0008A F920000F A
 374 01 0008B 6AE00000 X
 375 01 0008C F800000F A
 376 01 0008D 22F000A6
 377 01 0008E 22F000AC
 378 01 0008F 22F000A3
 379 01 00090 22000000 N
 380 01 00091 22000000 N
 381 01 00092 22F000A9
 382 01 00093 22000000 N
 383 01 00094 22000000 N
 384 01 00095 22000000 N
 385 01 00096 22F00000 N
 386 01 00097 22000000 N
 387 01 00098 68000000 X
 388 01 00099 22F000AF
 389 01 0009A 22000000 N
 390 0000000F

C11TV

BE BADCAL
 LI,D4 MISBVLV
 EXU C11TV+3,R1
 EQU \$
 LI,1 X'1FFFF'
 AND,1 CAL1PSD
 CI,1 JIJIT
 BG *D4
 REMEMBER
 B *D4
 LI,R15 EPCLS
 LI,R15 EPCVOL
 LI,R15 EP0PN
 LI,R0 PFIL#
 LI,R0 PRECORD#
 LI,R15 EPDEL
 LI,R0 REW#
 LI,R0 WEOF#
 LI,R15 TRNC
 LI,R0 MSRTFILE#
 B TRAPEXIT
 LI,R15 EPMBVE
 LI,R0 T;JOBENT#
 EQU 15

NO REMEMBER IF NOT MNTR

NC11S

392 01 0009B
 393 01 0009B 1 29 A
 01 0009B 2 29 A
 394 01 0009B 3 15 A
 395 01 0009C 03 A
 396 01 0009C 1 14 A
 397 01 0009C 2 1C A
 398 01 0009C 3 1D A
 399 01 0009D 0D A
 400 01 0009D 1 01 A
 401 01 0009D 2 02 A

C11CDS

RES,1 1
 DATA,1 X'129',X'129'
 DATA,1 X'15'
 DATA,1 X'13'
 DATA,1 X'14'
 DATA,1 X'1C'
 DATA,1 X'1D'
 DATA,1 X'1D'
 DATA,1 X'11'
 DATA,1 X'12'

CLOSE
 CVOL
 OPEN
 PFIL
 PRECORD
 DELETE
 REW
 WEOF

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402 01 0009D 3 12 A
 403 01 0009E 0F A
 404 01 0009E 1 0C A
 405 01 0009E 2 0E A
 406 01 0009E 3 2F A
 407

DATA,1 X112!
 DATA,1 X1F!
 DATA,1 X1C!
 DATA,1 X1E!
 DATA,1 X12F!
 BOUND *

TRUNC
 TFILE
 JOB ENTRY

409 01 0009F
 410 01 0009F 1 24 A
 411 01 0009F 2 23 A
 412 01 0009F 3 21 A
 413 01 000A0 26 A
 414 01 000A0 1 20 A
 415 01 000A0 2 22 A
 416 01 000A0 3 04 A
 417 01 000A1 27 A
 418 01 000A1 1 25 A
 419 01 000A1 2 28 A
 420 01 000A1 3 05 A
 421 01 000A2 08 A
 422 01 000A2 1 06 A
 423 01 000A2 2 2A A
 424 01 000A2 3 2B A
 425 000000F
 426

DEVCDs

RES,1 1
 DATA,1 X124!
 DATA,1 X123!
 DATA,1 X121!
 DATA,1 X126!
 DATA,1 X120!
 DATA,1 X122!
 DATA,1 X14!
 DATA,1 X127!
 DATA,1 X125!
 DATA,1 X128!
 DATA,1 X15!
 DATA,1 X1B!
 DATA,1 6
 DATA,1 X12A!
 DATA,1 X12B!
 NC11DEVS EQU BA(*)-BA(DEVCDs)+1
 BOUND *

M:DEVICE
 COUNT
 DATA
 FORM
 HEADER
 LINES
 MODE
 PAGE
 SEQ
 SPACE
 TAB
 VFC
 DIR
 SETDCB
 NLINES
 CORRES

428 01 000A3 22200000 N
 01 000A4 22000000 A
 01 000A5 68000000 X
 429 01 000A6 22200000 N
 01 000A7 22000002 A
 01 000A8 68000000 X

EP0PN

OVERT0 0PNSEG,0

EPCLS

OVERT0 CLSSEG,2

SPECIAL CALPROC ENTRY POINT

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430	01	000A9	22200000	N
	01	000AA	22000004	A
	01	000AB	68000000	X
431	01	000AC	22200000	N
	01	000AD	22000002	A
	01	000AE	68000000	X
432	01	000AF	22200000	N
	01	000B0	22000006	A
	01	000B1	68000000	X
433	01	000B2	22100007	A
434	01	000B3	22F00000	N
435	01	000B4	718200CF	
436	01	000B5	493000D1	
437	01	000B6	22000000	A
438	01	000B7	670200C5	
439	01	000B8	22B00000	N
440	01	000B9	21000000	A
441	01	000BA	683000C4	
442		01 000BB		
443	01	000BB	22200000	N
444	01	000BC	68000000	X
445		01 000BD		
446	01	000BD	22000000	N
447	01	000BE	683000DB	
448				
449	01	000BF	22B000E7	
450	01	000C0	68000000	X
451	01	000C1	22000000	N
452		01 000C2		
453	01	000C2	22200000	N
454	01	000C3	68000000	X
455		01 000C4		
456	01	000C4	FAB0000F	A
457	01	000C5	68000000	X
458	01	000C6	22F000C1	
459	01	000C7	680000CD	
460	01	000C8	22F00000	N

EPDEL	0VERT0	DLTSEG,4
EPCVOL	0VERT0	LBLTSEG,2
EPM0VE	0VERT0	LBLTSEG,6
CAL12	LI,R1	NC12S
	LI,R15	MERC
CHKCAL3	CB,SR1	C12CDS,R1
	BNE	CHKCAL4
	LI,R0	0
	EXU	C12TV+1,R1
	LI,11	TRAPEXIT
	CI,0	0
	BE	C12TV
I0DTY0VLY	EQU	\$
	LI,2	I0DTYSEG
	B	T10VERLAY
CHKENG	EQU	\$
	LI,R0	GT
	BEZ	BADCAL
*		ENG/DEQ IN SYSTEM-IF ENG RESIDENT, G0
	LI,11	I0SPRTN
	B	ENG
MSRKEY	LI,0	MSRKEY#
MIS0VLY	EQU	\$
	LI,2	MIS0VSEG
	B	T10VERLAY
C12TV	EQU	\$
	BAL,SR4	*D4
	B	TRAPEXIT
	LI,R15	MSRKEY
	B	MERCAL
	LI,R15	MSRTPR

ENG CAL...IF NO GT TABLES, ENG IS NOT IN SYSTEM

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461 01 000C9 22F00000 N
 462 01 000CA 22F00000 N
 463 01 000CB 680000BD
 464 01 000CC 680000BD
 465 00000007

NC12S

LI,R15 MSRTYPR
 LI,R15 MSR0CTY
 B CHKENG
 B CHKENG
 EQU *C12TV=2

END
DFQ

467 01 000CD
 468 01 000CD 22B000E5
 469 01 000CE 68000088
 470 01 000CF
 471 01 000CF 1 04 A
 472 01 000CF 2 10 A
 473 01 000CF 3 01 A
 474 01 000D0 02 A
 475 01 000D0 1 00 A
 476 01 000D0 2 08 A
 477 01 000D0 3 09 A
 478

MERCAL

EQU \$
 LI,11 IOSPRTNM
 B C11TV
 C12CDS RES,1 1
 DATA,1 4
 DATA,1 16
 DATA,1 1
 DATA,1 2
 DATA,1 0
 DATA,1 8
 DATA,1 9
 BOUND 4

RETURN POINT FOR M:MERC CAL

KEYIN
MERC
PRINT
TYPE
MMESSAGE
END
DEQ

480 01 000D1 641000B4
 481 01 000D2 680000DB
 482 01 000D3 64100082
 483 01 000D4 207FFFFFFF A
 484 01 000D5 22F00000 N
 485 01 000D6 2210000F A
 486 01 000D7 7182009F
 487 01 000D8 693000DA
 488 01 000D9 68000088
 489 01 000DA 641000D7
 490 01 000DB 22E000AE A
 491 01 000DC 68000000 X
 492 01 000DD 2161FFFF0 A

CHKCAL4

BDR,R1 CHKCAL3
 B BADCAL
 CHKCAL2 BDR,R1 CHKCAL1
 AI,7 =1
 LI,R15 IOSDEV
 LI,R1 NC11DEVS
 CB,SR1 DEVCDs,R1
 BNE *+2
 B C11TV
 BDR,R1 *+3
 LI,14 XIAE1
 B CALBAD
 CI,6 X'1FFFF0'

BADCAL

CVREG

CHK REG

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493	01	000DE	494000E0
494	01	000DF	30600000 X
495	01	000E0	326C0000 A
496	01	000E1	48080000 A

BANZ
AW,6
LW,6
B

*+2
JIBASE
0,6
0,4

SKIP IF NOT
REG LOC IN STACK
GET CONTENTS
RETURN

H01

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498 01 000F2
499 01 000E2 22100000 N
500 01 000E3 75620000 A
501 01 000E4 48000000 X

T:STPMT

EDU
LI,1
STB,6
B

*
JBIPROMPT
0,1
CCIRST

SET C0C PROMPT CHARACTER

SAVE IN JIT FOR SAVE

```

503 *
504 *D* NAME: I0SPRTN
505 *D*
506 *D* ENTRY: I0SPRTNM
507 *D*
508 *D* REGISTERS: ALL VOLATILE
509 *D*
510 *D* CALL: BRANCH
511 *D*
512 *D* INTERFACE: TRAPEXIT, T:ACCTOV
513 *D*
514 *D* INPUT: TOP 19 WORDS OF TSTACK CONTAIN USER CAL ENVIRON.
515 *D* SR1 = ZERO IF NO ERROR, OTHERWISE THE USER
516 *D* ADDRESS TO RETURN TO.
517 *D* SR3 = VALUE TO BE PUT INTO USER SR3 (ONLY IF
518 *D* SR1 NON-ZERO).
519 *D* JIBASE POINTS TO USER'S R0 (I0SPRTNM ONLY).
520 *D*
521 *D* OUTPUT: NONE IF SR1=0. OTHERWISE, SR1 AND SR3 ARE
522 *D* PLACED IN USER SR1 AND SR3, AND USER PSD
523 *D* ADDRESS IS CHANGED TO LOW ORDER 17 BITS OF SR1.
524 *D*
525 *D* IF SR1 = 0 (NO ERROR), GO TO TRAPEXIT WHICH
526 *D* RETURNS TO CAL+1. IF ERROR, CHANGE USER SR1 AND
527 *D* SR3 AND USER PSD, & RETURN TO USER VIA T:ACCTOV.
528 *D*
529 *D* I0SPRTNM IS RETURN FROM MIMERC CAL. SR1 IS
530 *D* FORCED TO BE THE USER'S SR1, WHICH IS THE ADDRESS
531 *D* TO RETURN TO.
532 *D*
533 *D* DESCRIPTION: FINAL EXIT FROM ALL CALLS.
534 *D*

```

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536 01 000E5 22100008 A
 537 01 000E6 B2820000 X
 538 01 000F7
 539 01 000E7 20800000 A
 540 01 000E8 68300000 X
 541 01 000E9 32100000 X
 542 01 000EA 35A3FFFB A
 543 01 000EB 201FFFEF A
 544 01 000EC 92200001 A
 545 01 000ED 2291FFFF A
 546 01 000EE 20200001 A
 547 01 000EF 3522000A A
 548 01 000F0 47800002 A
 549 01 000F1 95200001 A
 550 01 000F2 68000000 X
 551

I0SPRTNM LI,R1 SR1
 LW,SR1 *JIBASE,R1
 I0SPRTN EQU *
 AI,SR1 0
 BEZ TRAPEXIT
 LW,R1 TSTACK
 STW,SR3 *5,R1
 AI,R1 *17
 LD,R2 *R1
 LI,SR2 X'1FFFF'
 AI,R2 1
 STW,R2 10,R1
 STS,SR1 R2
 STD,R2 *R1
 B TIACCT0V
 END

GFT USER'S SR1

CONTROL SECTION SUMMARY: 01 000F3 PT 0

* SYMBOL VALUES

ABA/00000004
 ACS/00000005
 ANLZSB/01 00010
 ARS/00000004
 ATPRIVBIT/00004000
 BACBS/0000002C
 BADCAL/01 000DB
 BAFCN/0000001C
 BAIMT/00000038
 BANRA/00000008
 BARNDEV/00000016
 BASVA/0000004D
 BBUD/00000010
 BLINK/00000000
 BUFF1/00009400
 BUF1/FUNC
 CAL1/01 00027
 CAL11M/01 00036
 CBD/00000012
 CFU/00000001
 CHKCAL3/01 000B4
 CIS/0000000B
 CSC/0000000E
 CVREG/01 000DD
 C11TV/01 00088
 DCBCYLBIT/00020000
 DCBPRBC/00000000
 DISCBPRBC/00000000
 DSI/00000001
 EGV/00000000
 EPDEL/01 000A9
 EXT/00000000
 FDA/00000001
 FLINK/00000001
 FRM/00000000
 GAVAL/00000003

ACD/00000015
 ADDR:ADDR/01 00004
 ANLZ1/01 00014
 ASN/00000000
 BAATNGC/00000007
 BACSC/00000038
 BADEVTP/00000006
 BAFILDISP/0000002C
 BAKSYM/00000030
 BAPRG/00000017
 BASCR/00000044
 BAYDCTX/00000028
 BCDA/0000000F
 BLK/00000006
 BUFF2/00009600
 BUF1MSK/0000001F
 CAL11/01 00030
 CAL11MAP/01 0005B
 CCBD/00000004
 CFUPRIVBIT/00010000
 CHKCAL4/01 000D1
 CLK/0000000C
 CVA/00000014
 CYL/00000000
 C12CDS/01 000CF
 DCBNBSEPBIT/00000200
 DCBSWXVBIT/00008000
 DPADFDA/00010002
 D1/0000000C
 EBP/00000000
 EPMBVE/01 000AF
 FCD/00000000
 FILDISP/0000000B
 FLP/00000006
 FSP/00000007
 GORDWT1/EXT

ACNDISP/00000009
 AGER/00000009
 ANLZ2/01 0001A
 AT:NVAT/00000005
 BAAVRNB/00000005
 BACVI/00000024
 BADSC/0000004C
 BAFUNM/00000002
 BALVA/00000029
 BABVC/0000002D
 BASLIDES/00000003
 BAVNB/0000002C
 BFL/00000010
 BTD/00000000
 BUFSIZ/00000800
 BUF2/FUNC
 CAL11DCB/01 00036
 CAL11X/01 0003F
 CDA/00000008
 CHKCAL1/01 000R2
 CHKENQ/01 000BD
 CMD/00000014
 CVI/00000009
 C1TV/01 0002D
 C12TV/01 000C4
 DEVCDS/01 0009F
 DPFDFDA/00010004
 D3/0000000E
 EPCLS/01 000A6
 EPBPN/01 000A3
 FCN/00000007
 FIL1/00000005
 FNEMAX/00000020
 FUN/00000001
 HAACD/0000002A

ACNMAX/0000000C
 AGV/00000000
 ANSPRBC/00000000
 ATCYLBIT/00008000
 BACIS/0000002C
 BACV8/00000024
 BAdSI/00000007
 BAHSC/00000050
 BANLR/00000015
 BARAX/00000015
 BASPARE/0000004F
 BAVSND/00000024
 BITS/00000000
 BUF/00000002
 BUFX/00000009
 BUF2MSK/000003E0
 CAL11FPT/01 00072
 CAL12/01 000B2
 CDAM/00000002
 CHKCAL2/01 000D3
 CHKRLBP3/01 00081
 CBS/0000000B
 CV8/00000009
 C11CDS/01 00098
 DCBCDAM/00000015
 DCBPRIVBIT/00000800
 DIR/00000000
 DSC/00000013
 D4/0000000F
 EPCVBL/01 000AC
 ERA/00000003
 FCBN/00000000
 FLD/00000015
 FPARAM/0000000B
 FVA/00000014
 HAECBD/00000008

HACMD/00000028
 HICAL/00000002
 IMT/0000000E
 KBUF/0000000A
 LSLIDES/0000004D
 MBG/00000000
 MIUD/00000010
 MSRKEY/01 000C1
 NC11S/0000000F
 NBU/00000000
 NXTA/00000010
 SVC/0000000B
 PRIV/00000000
 RLIM/00000015
 RSZ/00000003
 R10/0000000A
 R14/0000000E
 R4/00000004
 R8/00000008
 SEQ/00000005
 SQS/00000014
 SR3/0000000A
 S69PR0C/00000001
 TDA/00000005
 TRN/00000005
 ULB/0000000C
 VFC/00000000
 VT0C;MAPWL/00000004
 WFNEMAX/00000008
 11D01/01 00049
 11D5/01 00046
 11M2/01 00070

* EXTERNAL DEFINITIONS

CALPR0C/01 00000
 I0SPRTN/01 0000F7

* PRIMARY REFERENCES

BLOCKER CALBAD

HAFLO/0000002B
 HLC/00000013
 I0DTY0VLY/01 000BB
 KEYM/0000000C
 LVA/0000000A
 MERCAL/01 000CD
 M00/00000000
 NAV/00000004
 NC12S/00000007
 NRA/00000002
 NXTF/00000005
 PAT/00000011
 QBUF/00000007
 RNDEV/00000005
 RWS/0000000D
 R11/0000000B
 R15/0000000F
 R5/00000005
 R9/00000009
 SETFLG1/EXT
 SREC/00000006
 SR4/0000000B
 T;STPMT/01 000E2
 TLB/0000000E
 TTL/00000000
 USR/00000000
 VN0/0000000B
 VT0C;NVAT/00000005
 WRDLO/00000013
 11D1/01 00058
 11D6/01 00040
 4241724/01 00002

CAL1P11/01 0000A
 S;BUFMCD/01 00006

CALCK

HAPBD/00000029
 HSC/00000014
 I0SPRTNM/01 000E5
 LDA/00000007
 M#UCM#XX/01 00000
 MIDIS/0000000C
 M0NPR0C/00000001
 NAVX/00000002
 NLR/00000005
 NVA/00000008
 0NWK/00000005
 PBD/00000014
 RAX/00000005
 RNR/00000010
 RO/00000000
 R12/0000000C
 R2/00000002
 R6/00000006
 SCFU/00000004
 SID/00000015
 SR1/00000008
 SVA/00000013
 TAB1/0000000F
 T0F/00000000
 TYC/00000002
 UTSPR0C/00000001
 VSND/00000009
 VT0C;SNTD/00000003
 WXBUFSIZ/00000100
 11D2/01 00059
 11D8/01 00051

CAL11NB/01 00035

CAL1PSD

CAL11N7

HASND/00000019
 HWDSI/00000003
 KAD/00000012
 LRDL0/0000004E
 MAXACN/00000010
 MIS0VLY/01 000C2
 MPBITS/00000000
 NC11DEVS/0000000F
 N0SEP/00000000
 NWK/00000005
 0RG/00000005
 PCK/00000000
 RDLO/0000004E
 RST0RE/00000014
 R1/00000001
 R13/0000000D
 R3/00000003
 R7/00000007
 SCR/00000011
 SND/0000000C
 SR2/00000009
 SWXV/00000000
 TCFU/0000000F
 T0PMSK/00007C00
 UFLAGS/00000000
 VDCTX/0000000A
 VT0C;BITMAP/00000007
 WAT/00000000
 XBUFSIZ/00000400
 11D4/01 0003B
 11M1/01 00069

CAL11N3/01 00034

CC1RST

CLSSEG

H01 13:34 SEP 08 1975

DLTSEG	IOCHK
J:JIT	JB:PRMPT
MERC	MISOVSEG
M3	OPNSEG
T:OVER	T:OVERLAY
WEBF#	IBIG

IODTYSEG
JX:CMAP
MSRKEY#
PFIL#
T:REMEMBER

IOBDEV
JXBUFVP
MSRBTY
PRECORD#
TRAPEXIT

J:BASE
LBLTSEG
MSRTFILE#
REW#
TRNC

J:CALCNT
M:UC
MSRTYPR
T:ACCTBV
TSTACK

32
J:DCBLIN
MIXX
M17
T:JOBENT
TXTCFU

* SECONDARY REFERENCES

CICAL	ENG
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QT

* NO UNDEFINED SYMBOLS

* ERROR SEVERITY LEVEL: 0

* NO ERROR LINES