```
 13:34 SEP 08,'75 ID=00E1
JOB !POST,BRU333323132,7   . TERMINAL JOB
LIMIT (CORE,16),(TIME,10)
ASSIGN M,CI,(FILE,CALPROC,:DOOCI)
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 RESUM

PAPER JAM

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

```
        104/REF         453/LI
M0NPR0C
          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-EQU         485/LI
NC11S
        363/LI          390-EQU
NC12S
        433/LI          465-EQU
0PNSEG
         99/REF         428/0VERT0
PFIL#
        105/REF         380/LI
pREC0RD#
        106/REF         381/LI
QT
        123/SREF        446/LI
REW#
        107/REF         383/LI
S:0UFMCD
         88/DEF         169-PZE         340/LD
SETFLG1
        160-EQU         348/BE
```

S69PR0C

2=SET

T1ACCT0V

129/REF 550/B

T1J0BENT#

111/REF 389/LI

T10VERLAY

121/REF 444/B 454/B

T1STPMT

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

```
        328/BEZ         333*LI
11M2
        335/BEZ         340*LD
4241724
        165*DATA        272/LD
:BIG
        142/REF         340/LD          340/LD
```

```
1                       *M*         CALPROC   CAL1 DISPATCHER
2           00000001    S69PROC     SET       1
3           00000001    M0NPROC     SET       1
4                                   PCC       0
5                                   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 THI
     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 CAL11N8  - 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 M:UC OR M:XX
     35                    *P*                 OR THE CAL IS AN M:PROMPT) 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
```

```
                *P*  I0SPRTN = FINAL EXIT FROM ALL CAL1S
                *P*  IF NO ERROR HAS BEEN DETECTED THIS ROUTINE EFFECTS
                *P*  AN IMMEDIATE RETURN TO TRAPEXIT IN SCHED
                *P*  WHICH CAUSES THE TRAP PSD (FROM THE ISSUING CAL1)
                *P*  TO BE INCREMENTED BY 1.
                *P*  IF AN ERROR HAS BEEN DETECTED THEN THE USER'S PSD IS
                *P*  MODIFIED TO REFLECT HIS ERROR OR ABNORMAL
                *P*  ADDRESS AND RETURN IS MADE TO SCHED AT T'ACCTOV
                *P*  SUCH THAT NO ADJUSTMENT IS MADE TO THE PSD.
```

```
55                      *               SYMBOLIC REGISTER DEFINITIONS.
56          00000000    R0      EQU     0
57          00000001    R1      EQU     1
58          00000002    R2      EQU     2
59          00000003    R3      EQU     3
60          00000004    R4      EQU     4
61          00000005    R5      EQU     5
62          00000006    R6      EQU     6
63          00000007    R7      EQU     7
64          00000008    SR1     EQU     8
65          00000009    SR2     EQU     9
66          0000000A    SR3     EQU     10
67          0000000B    SR4     EQU     11
68          0000000C    D1      EQU     12
69          0000000E    D3      EQU     14
70          0000000F    D4      EQU     15
71          00000008    R8      EQU     8
72          00000009    R9      EQU     9
73          0000000A    R10     EQU     10
74          0000000B    R11     EQU     11
75          0000000C    R12     EQU     12
76          0000000D    R13     EQU     13
77          0000000E    R14     EQU     14
78          0000000F    R15     EQU     15
```

```
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 CA1,1 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 IBIG)
90                  *,*                                  FOR MAPPING BUFF1 & BUFF2.
91                             DEF       IOSPRTN          ENTRY FOR COMMON EXIT POINT FOR MOS
92                  *,*                                  I/O CALS
```

```
                *
                *       REFS
                *               CAL ROUTINES (MONITOR SERVICES)
                *
                        REF     CAL11N7         EXIT TO PROCESS READ/WRITE CALS
                        REF     OPNSEG          OPEN OVERLAY SEGMENT NUMBER
                        REF     CLSSEG          CLOSE OVERLAY SEGMENT NUMBER
                        REF     DLTSEG          CLOSE OVERLAY SEGMENT NUMBER
                        REF     IODTYSEG        OPENTP OVERLAY SEGMENT NUMBER
                        REF     LBLTSEG         LTAPE OVERLAY SEGMENT NUMBER
                        REF     MISOVSEG        MISOV OVERLAY SEGMENT NUMBER
                        REF     PFIL#           ENTRY POINT FOR PFIL CAL IN MISOV
                        REF     RECORD#         ENTRY POINT FOR RECORD CAL IN MISO
                        REF     REW#            ENTRY POINT FOR PFIL CAL IN MISOV
                        REF     WEOF#           ENTRY POINT FOR WEOF CAL IN MISOV
                        REF     MSRTFILE#       ENTRY POINT FOR TFILE CAL IN MISOV
                        REF     MSRKEY#         ENTRY POINT FOR KEYIN CAL IN MISOV
                        REF     TIJOBENT#       ENTRY POINT FOR JOB CAL IN MISOV
                        REF     IOSDEV          EXIT TO SET UP DEVICE DEPENDENT OPTS
                        REF     MSROCTY         EXIT TO PROCESS PRINT/MESSAGE CALS
                        REF     MSRTYPR         EXIT TO PROCESS TYPE CALS
                        REF     MERC            EXIT TO PROCESS MERC CALS
                        REF     IOCHEK          EXIT TO PROCESS CHECK CALS
                        REF     CALCK           EXIT TO PROCESS CAL1S OTHER
                *,*                             THAN CAL1,1 & CAL1,2
                        REF     CALBAD          EXIT FOR BAD CAL PROCESSING
                        REF     TRNC            EXIT TO PROCESS TRUNC CALS
                        REF     TIOVERLAY       EXIT TO LOAD A MONITOR OVERLAY
                *,*                             AND REMEMBER A RETURN
                        SREF    QT              MONITOR RESIDENT ENQUEUE TABLES
                        SREF    ENQ             EXIT TO PROCESS ENQUEUE/DEQUEUE CALS
                        REF     CC1RST          EXIT WHEN CC1 TO BE RESET WHEN
                *,*                             RETURN TO CAL+1
                        REF     TRAPEXIT        EXIT IN SCHED AT COMPLETION OF I/O
                *,*                             CAUSES TRAP PSD TO BE BUMPED 1
                        REF     TIACCTOV        EXIT TO SCHED AT COMPLETION OF I/O
                *,*                             WHEN PSD NOT TO BE CHANGED
```

```
                *
                *       REFS
                *               GENERAL DATA
                *
                        REF     CAL1PSD         PSD OF THE CAL1 BEING PROCESSED
                        REF     M:UC            M:UC DCB ADDRESS
                        REF     M:XX            M:XX DCB ADDRESS
                        REF     J:JIT           THE JIT
                        REF     TSTACK          THE TSTACK
                        REF     TXTCFU          TEXTC OF M:*
                        REF     J:DCBLINK       ADDRESS OF DCB TABLE
                        REF     !BIG            FLAG TO INDICATE SYSTEM GENERATED
                *,*                             FOR > 128K CORE ( 1= YES)
                        REF     J:CALCNT        CAL1 COUNT FOR CURRENT USER
                        SREF    C:CAL           TOTAL # OF CAL1S
                        REF,1   JB:PROMPT       CURRENT PROMPT CHARACTER FOR USER
                *,*                             AS BYTE ADDRESS
                        REF     JXBUFVP         VP # START OF JIT MAP IMAGE
                        REF     JX!CMAP         PHYSICAL PAGE TABLE
                        REF     J:BASE          CONTAINS PTR TO USERS REGS IN TSTACK
                        REF     M3              MASK
                        REF     M17             MASK
```

```
155          01 00000            CALPROC  EQU      *
156                              *
157                              *
158                              *
159          00000009            AGER     EQU      9                 DCB WD9 HAS CAL AGE,BUFF ADDRESSES
160          EXT                 SETFLG1  EQU      CAL11N7
161          EXT                 GORDWT1  EQU      CAL11N7
162                              BOUND    8
163    01 00000    00000000 X    M#UCM#XX PZE      M:UC              ADDRESSES OF M:UC AND
164    01 00001    00000000 X             PZE      M:XX               M:XX DCBS FOR CLM INSTRUCTION.
165    01 00002    04000000 A    424:724  DATA     X'04000000'       SMALLEST 2-WORD DCB NAME.
166    01 00003    07FFFFFF A             DATA     X'07FFFFFF'        LARGEST 2-WORD DCB NAME.
167    01 00004    0001FFFF A    ADDR:ADDR DATA    X'0001FFFF'       DOUBLEWORD CONTAINING TWO
168    01 00005    0001FFFF A             DATA     X'0001FFFF'        ADDRESS MASKS.
169    01 00006    00000012 N    $:BUFMCD PZE      WA(JX:CMAP)+BUFF1***-9/4   MAP BUFF1/BUFF2 ON
170    01 00007    01009000 A             GEN,8,24 1,BUFF1&X'1F800'            128K MACHINE.
171    01 00008    00000025 N             PZE      WA(JX:CMAP)+BUFF1***-9/2   MAP BUFF1/BUFF2 ON
172    01 00009    01009400 A             GEN,8,24 1,BUFF1&X'1FC00'            >128K MACHINE.
```

```
174          01 0000A                CAL1P11  EQU     *
175    01 0000A     32600000 A                LW,6    0                L/ADDRESS OF CAL1 TRAP
176                                   *  INCREMENT CAL COUNT FOR PERFORMANCE MONITOR IF IT EXISTS,
177                                   *  ELSE INCREMENT REGISTER 0.
178    01 0000B     33100000 X                MTW,1   C!CAL
179    01 0000C     33100000 X                MTW,1   J!CALCNT
180    01 0000D     3221FFF1 A                LI,1    -15
181    01 0000E     30100000 X                AW,1    TSTACK
182    01 0000F     35100000 X                STW,1   J!BASE
183    01 00010     6A4000DD          ANLZSB  BAL,4   CVREG            GET CAL OR EXU
184    01 00011     52B00006 A                LH,SR4  6                FOR EXU CHK AND INDEX
185    01 00012     68100014                  BGEZ    ANLZ1            SKIP IF NOT INDIRECT
186    01 00013     6A4000DD                  BAL,4   CVREG            GET DIRECT ADDRESS
187    01 00014     32E00006 A        ANLZ1   LW,D3   6
188    01 00015     32600008 A                LW,6    SR4
189    01 00016     25600007F A               SLS,6   -1               ALIGN INDEX FIELD
190    01 00017     4B600000 X                AND,6   M3               EXTRACT INDEX FIELD
191    01 00018     68300018                  BEZ     ANLZ2            SKIP IF NO INDEX
192    01 00019     B26C0000 X                LW,6    *J!BASE,6        GET INDEX VALUE
193    01 0001A     3060000E A        ANLZ2   AW,6    D3               ADD DIRECT ADDRESS
194    01 0001B     21B02000 A                CI,SR4  X'2000'          CHK EXU
195    01 0001C     69400010                  BANZ    ANLZSB           UNDO EXU CHAIN
196    01 0001D     2161FFF0 A                CI,6    X'1FFF0'         CHK REGISTER
197    01 0001E     69400020                  BANZ    *+2              SKIP IF NOT
198    01 0001F     30600000 X                AW,6    J!BASE           REGISTER LOC IN STACK
199    01 00020     2271FFFF A                LI,R7   X'1FFFF'
200    01 00021     4B700006 A                AND,R7  6                PLIST ADDRESS
201    01 00022     F2800006 A                LB,SR1  *R6              TYPE OF CAL BYTE
202    01 00023     326E0000 A                LW,6    0,R7             DCB ADDR
203    01 00024     68100027                  BGEZ    CAL1             SKIP IF NOT INDIRECT
204    01 00025     6A4000DD                  BAL,4   CVREG            GET DIRECT DCB ADDRESS
205    01 00026     208FFF80 A                AI,SR1  -X'80'           STRIP INDIRECT BIT
206    01 00027     20700001 A        CAL1    AI,R7   1                POINT TO PRESENCE BITS
207    01 00028     22B00000 N                LI,SR4  TRAPEXIT
208                                   *                SR4 = EXIT ADDR.,SR1 = CODE, R6 = FIRST WD OF PLIST.
209    01 00029     2530007C A                SLS,R3  -4
210    01 0002A     21300002 A                CI,R3   HICAL
```

```
211   01 0002B    6826002D                    BLE       C1TV,R3
212   01 0002C    43F00000 X                  MTW,-1    J1CALCNT
213         01 0002D                C1TV      EQU       $
214   01 0002D    68000000 X                  B         CALCK
215   01 0002E    68000030                    B         CAL11
216   01 0002F    680000B2                    B         CAL12
217         00000002                HICAL     EQU       $-C1TV-1
```

```
219                01 00030                CAL11    EQU     $
220    01 00030     22100008 A                       LI,1    8                   JUSTIFY
221    01 00031     13100000 X                       MSP,1   TSTACK               STACK
222    01 00032     207FFFFF A                       AI,7    -1
223    01 00033     68000036                         B       CAL11M
224    01 00034     72800006 A              CAL11N3  LB,8    6                   GET FUNCTION CODE
225                01 00035                CAL11NB  EQU     $
226    01 00035     33100000 X                       MTW,1   C:CAL
227    01 00036                             CAL11M   RES     0
228                                         *D*     CAL11DCB TESTS VALIDITY OF A CAL1,1'S DCB ADDRESS.
229                                         *D*     R6=DCB ADDRESS INPUT TO CAL11DCB, BUT WITH POSSIBLE
230                                         *D*       HIGH-ORDER GARBAGE THAT MUST BE MASKED OFF.
231                                         *D*     DCB ADDRESS IS LEGAL IF --
232                                         *D*     1. IT IS M:XX OR M:UC.
233                                         *D*     2. THE CAL1 FPT CODE (IN SR1) IS X'2C'.
234                                         *D*        (THIS IS M:PC CAL, WHICH HAS NO DCB ADDRESS.)
235                                         *D*     3. DCB IS ON THE DCB NAMELIST. FORMAT OF NAMELIST --
236                                         *D*        J:DCBLINK CONTAINS WA(NAMELIST BLOCK).
237                                         *D*        NAMELIST BLOCK CONSISTS OF ONE UNUSED WORD,
238                                         *D*          THEN A STRING OF (TEXTC DCBNAME, DCB ADDRESS)
239                                         *D*          ENTRIES, THEN A WORD WHICH IS ZERO OR THE
240                                         *D*          ADDRESS OF ANOTHER NAMELIST BLOCK.
241                                         *D*          IF THE FIRST TEXTC DCBNAME IN A BLOCK IS 'M:*'
242                                         *D*          (CFUDCB), IT ISN'T REALLY A DCB AND AN ADDRESS
243                                         *D*          MATCH IS NOT A LEGAL DCB.
244                                         *D*     CAL11DCB IS ON THE FAST CAL PATH, SO IT IS CODED FOR
245                                         *D*        SPEED.  DCB-ON-NAMELIST IS ABOUT 20 TIMES AS
246                                         *D*        PROBABLE AS M:XX/M:UC, BUT THE M:XX/M:UC CASE IS
247                                         *D*        TESTED FIRST BECAUSE AN UNSUCCESSFUL NAMELIST
248                                         *D*        SEARCH TAKES MORE LIKE 30 TIMES AS LONG AS THE
249                                         *D*        M:XX/M:UC TEST.  90% OF DCB NAMES ARE 2 WORDS
250                                         *D*        LONG.  ABOUT 5 NAMELIST MISMATCHES OCCUR BEFORE
251                                         *D*        THE DCB IS FOUND.  M:PC AND ILLEGAL DCB ARE
252                                         *D*        VERY RARE.
253                                         *D*     REGISTERS ---
254                                         *D*     R5 PRESERVED
255                                         *D*     R6 DCB ADDRESS, HIGH-ORDER GARBAGE ZEROED.
```

```
256                                    *D*              R7 PRESERVED
257                                    *D*              R8(SR1) FPT CODE, PRESERVED
258                                    *D*              R3 OUTPUT POINTS TO 2 BEFORE DCB ADDRESS IN NAMELIST
259                                    *D*
260                                    *D*                        +------ SETUP CODE EXECUTED ONCE
261                                    *D*                        |+----- MULTIPLE NAMELIST BLOCK LOOP
262                                    *D*                        ||+---- 1-WORD DCBNAME LOOP
263                                    *D*                        |||+--- 2-WORD DCBNAME LOOP
264                                    *D*                        ||||+-- >2-WORD DCBNAME LOOP
265          01 00036                  CAL11DCB EQU     $         VVVVV
266    01 00036    4B600000 X                    AND,R6   M17       S     REMOVE GARBAGE FROM DCB ADDRESS.
267    01 00037    19600000                      CLM,R6   M#UCM#XX  S     TRY SPECIAL DCBS FIRST.
268    01 00038    6990003B                      BCS,1*8  11D4      S     --> NO.
269    01 00039    68C0005B                      BCR,12   CAL11MAP         --> MIXX. MAP BUFFERS.
270    01 0003A    68300046                      BCR,3    11D5            --> MIUC. (MAY BE ILLEGAL)
271    01 0003B    12200004            11D4      LD,R2    ADDR;ADDR S     R2/R3 ARE TWO ADDRESS-ONLY MASKS.
272    01 0003C    12C00002                      LD,R12   4241724   S     R12/R13 ARE LIMITS OF 2-WORD TEXTC
273    01 0003D    4B300000 X                    AND,R3   JIDCBLINK S     GET ADDRESS OF DCB NAMELIST.
274    01 0003E    69300040                      BNEZ     11D6      S     --> GO TRY TO MATCH DCB ADDRESS.
275          01 0003F                  CAL11X    EQU      $               ***   ILLEGAL DCB ADDRESS.
276    01 0003F    223FFFF8 A                    LI,R3    -8
277    01 00040    13300000 X                    MSP,R3   TSTACK          CRANK DOWN STACK TO USER ENVIRON.
278                                   ********************************************************************************
279    01 00041    6A100000 X                    BLOCK                    SLAVE USER WILL BE PARKED HERE
280                                   ********************************************************************************
281    01 00042    2180002C A                    CI,SR1   X'2C'           LAST CHANCE -- MIPC DOESNT USE DCB
282    01 00043    683000E2                      BE       TISTPMT         --> GOT MIPC CAL.
283                                   *E*              ERROR AF=00.
284                                   *E*              DESCRIPTION: CAL1,1 REFERENCES NONEXISTENT DCB.
285    01 00044    22E000AF A                    LI,R14   X'AF'
286    01 00045    68000000 X                    B        CALBAD
287    01 00046    70200000 X          11D5      LC       JIJIT                 MIUC IS A NO-NO IN BATCH.
288    01 00047    69C00072                      BCS,12   CAL11FPT       --> MIUC. SKIP BUFFER MAPPING.
289    01 00048    6800003F                      B        CAL11X          --> ILLEGAL DCB ADDRESS.
290                                   *
291    01 00049    31260000 A          11D01     CW,R2    0,R3      M1    DISTINGUISH 1-WD NAME, BLOCK END.
292    01 0004A    69100058                      BL       11D1      M1    --> 1 WORD DCBNAME.
```

```
293  01 0004B  32360000 A            LW,R3   0,R3        M   BLOCK END.  IS THERE A LINK...
294  01 0004C  68300003F             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  68300051              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  68600059              BCR,6   11D2          12> ---> 2 WORDS.
302  01 00054  69200049              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               > POINT PAST NAME MINUS 1.
306  01 00058  203FFFFF A  11D1      AI,R3   -1             1 > POINT PAST NAME MINUS 2.
307  01 00059  31660002 A  11D2      CW,R6   2,R3          12> LOOK FOR ADDRESS MATCH.
308  01 0005A  69300051              BNE     11D8          12> ---> NOT FOUND, KEEP LOOKING.
309       01 0005B          CAL11MAP EQU     $                 MAP DCB'S BLOCKING BUFFERS.
310  01 0005B  22D007FC A            LI,R13  X'1FF'**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  F I R S T
322                            *D*      W O R D  OF MAP IMAGE MAPPED, & THEN GOES UNMAPPED.
323  01 0005F  222003FF A            LI,R2   BUF2MSK,BUF1MSK   MASK TO GET BUFFER INDEXES.
324  01 00060  4B2C0009 A            AND,R2  BUFX,R6           GET BUFFER INDEXES.
325  01 00061  68300072              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  68300069              BEZ     11M1              ---> NO.
329  01 00065  202FFFFF N            AI,R2   JXBUFVP-1         CONVERT INDEX TO CMAP PAGE.
```

```
330  01 00066  22100048 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  4B2C0009 A          AND,R2   BUFX,R6            ANY BUFF1...
335  01 0006B  68300070            BEZ      11M2               ---> NO.
336  01 0006C  202FFFFF 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  22B000E7            LI,SR4   IOSPRTN
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       IOCHEK              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  221FFFF8 A          LI,1     -8                 JUSTIFY
362  01 00080  13100000 X          MSP,1    TSTACK              STACK
363  01 00081  2210000F A  CHKRLOP3 LI,R1    NC11S
364  01 00082  71820098  CHKCAL1   CB,SR1    C11CDS,R1
365  01 00083  693000D3            BNE      CHKCAL2
366  01 00084  21600000 N          CI,6     M:UC               IS IT UC DCB
```

```
367  01 000085  683000DB                BE      BADCAL      ONLY READ/WRITE/DEV CALS ALLOWED
368  01 000086  22F000C2                LI,D4   MISOVLY
369  01 000087  670200 8B               EXU     C11TV+3,R1
370        01 000088                    C11TV   EQU     $
371  01 000088  2211FFFF A              LI,1    X'1FFFF'
372  01 000089  4B100000 X              AND,1   CAL1PSD
373  01 00008A  21100000 N              CI,1    J:JIT
374  01 00008B  F9200000F A             BG      *D4         NO REMEMBER IF NOT MNTR
375  01 00008C  6AE00000 X              REMEMBER
376  01 00008D  F800000F A              B       *D4
377  01 00008E  22F000A6                LI,R15  EPCLS
378  01 00008F  22F000AC                LI,R15  EPCVOL
379  01 000090  22F000A3                LI,R15  EPOPN
380  01 000091  22000000 N              LI,R0   PFIL#
381  01 000092  22000000 N              LI,R0   PRECORD#
382  01 000093  22F000A9                LI,R15  EPDEL
383  01 000094  22000000 N              LI,R0   REW#
384  01 000095  22000000 N              LI,R0   WEOF#
385  01 000096  22F00000 N              LI,R15  TRNC
386  01 000097  22000000 N              LI,R0   MSRTFILE#
387  01 000098  68000000 X              B       TRAPEXIT
388  01 000099  22F000AF                LI,R15  EPMOVE
389  01 00009A  22000000 N              LI,R0   T:JOBENT#
390        0000000F                     NC11S   EQU     15

392  01 00009B                          C11CDS  RES,1   1
393  01 00009B 1  29        A                   DATA,1  X'29',X'29'
     01 00009B 2  29        A
394  01 00009B 3  15        A                   DATA,1  X'15'       CLOSE
395  01 00009C    03        A                   DATA,1  X'3'        CVOL
396  01 00009C 1  14        A                   DATA,1  X'14'       OPEN
397  01 00009C 2  1C        A                   DATA,1  X'1C'       PFIL
398  01 00009C 3  1D        A                   DATA,1  X'1D'       PRECORD
399  01 00009D    0D        A                   DATA,1  X'D'        DELETE
400  01 00009D 1  01        A                   DATA,1  X'1'        REW
401  01 00009D 2  02        A                   DATA,1  X'2'        WEOF
```

```
402   01 0009D 3  12        A            DATA,1   X'12'              TRUNC
403   01 0009E    0F        A            DATA,1   X'F'               TFILE
404   01 0009E 1  0C        A            DATA,1   X'C'
405   01 0009E 2  0E        A            DATA,1   X'E'
406   01 0009E 3  2F        A            DATA,1   X'2F'              JOB ENTRY
407                                      BOUND    4


409   01 0009F                 DEVCDS     RES,1    1                M;DEVICE
410   01 0009F 1  24        A            DATA,1   X'24'                COUNT
411   01 0009F 2  23        A            DATA,1   X'23'                DATA
412   01 0009F 3  21        A            DATA,1   X'21'                FORM
413   01 000A0    26        A            DATA,1   X'26'                HEADER
414   01 000A0 1  20        A            DATA,1   X'20'                LINES
415   01 000A0 2  22        A            DATA,1   X'22'                MODE
416   01 000A0 3  04        A            DATA,1   X'4'                 PAGE
417   01 000A1    27        A            DATA,1   X'27'                SEQ
418   01 000A1 1  25        A            DATA,1   X'25'                SPACE
419   01 000A1 2  28        A            DATA,1   X'28'                TAB
420   01 000A1 3  05        A            DATA,1   X'5'                 VFC
421   01 000A2    0B        A            DATA,1   X'B'                 DIR
422   01 000A2 1  06        A            DATA,1   6                  SETDCB
423   01 000A2 2  2A        A            DATA,1   X'2A'                NLINES
424   01 000A2 3  2B        A            DATA,1   X'2B'                CARRES
425         0000000F           NC11DEVS  EQU      BA($)-BA(DEVCDS)-1
426                                      BOUND    4



428   01 000A3    22200000 N   EPOPN      OVERTO   OPNSEG,0
      01 000A4    22000000 A
      01 000A5    68000000 X
429   01 000A6    22200000 N   EPCLS      OVERTO   CLSSEG,2            SPECIAL CALPROC ENTRY POINT
      01 000A7    22000002 A
      01 000A8    68000000 X
```

```
430  01 000A9  22200000 N  EPDEL   8VERT8  DLTSEG,4
     01 000AA  22000004 A
     01 000AB  68000000 X
431  01 000AC  22200000 N  EPCV8L  8VERT8  LBLTSEG,2
     01 000AD  22000002 A
     01 000AE  68000000 X
432  01 000AF  22200000 N  EPM8VE  8VERT8  LBLTSEG,6
     01 000B0  22000006 A
     01 000B1  68000000 X
433  01 000B2  22100007 A  CAL12   LI,R1    NC12S
434  01 000B3  22F00000 N          LI,R15   MERC
435  01 000B4  718200CF    CHKCAL3 CB,SR1   C12CDS,R1
436  01 000B5  693000D1            BNE      CHKCAL4
437  01 000B6  22000000 A          LI,R0    0
438  01 000B7  670200C5            EXU      C12TV+1,R1
439  01 000B8  22B00000 N          LI,11    TRAPEXIT
440  01 000B9  21000000 A          CI,0     0
441  01 000BA  683000C4            BE       C12TV
442       01 000BB        I8DTY8VLY EQU      $
443  01 000BB  22200000 N          LI,2     I8DTYSEG
444  01 000BC  68000000 X          B        TI8VERLAY
445       01 000BD        CHKENQ    EQU      $                    ENQ CAL...IF NA QT TABLES, ENQ IS
446  01 000BD  22000000 N          LI,R0    QT                          NOT IN SYSTEM
447  01 000BE  683000DB            BEZ      BADCAL
448                     *                       ENQ/DEQ IN SYSTEM.IF ENQ RESIDENT, GO
449  01 000BF  22B000E7            LI,11    I8SPRTN
450  01 000C0  68000000 X          B        ENQ
451  01 000C1  22000000 N  MSRKEY  LI,0     MSRKEY#
452       01 000C2        MIS8VLY   EQU      $
453  01 000C2  22200000 N          LI,2     MIS8VSEG
454  01 000C3  68000000 X          B        TI8VERLAY
455       01 000C4        C12TV     EQU      $
456  01 000C4  FAB0000F A          BAL,SR4  *D4
457  01 000C5  68000000 X          B        TRAPEXIT
458  01 000C6  22F000C1            LI,R15   MSRKEY
459  01 000C7  680000CD            B        MERCAL
460  01 000C8  22F00000 N          LI,R15   MSRTYPR
```

```
461   01 000C9    22F00000 N            LI,R15   MSRTYPR
462   01 000CA    22F00000 N            LI,R15   MSR0CTY
463   01 000CB    680000BD              B        CHKENQ          ENQ
464   01 000CC    680000BD              B        CHKENQ          DEQ
465         0000007          NC12S      EQU      $-C12TV-2

467         01 000CD         MERCAL     EQU      $
468   01 000CD    22B000E5              LI,11    I0SPRTNM        RETURN POINT FOR MIMERC CAL
469   01 000CE    68000088              B        C11TV
470   01 000CF                 C12CDS     RES,1    1
471   01 000CF 1  04           A         DATA,1   4             KEYIN
472   01 000CF 2  10           A         DATA,1   16            MERC
473   01 000CF 3  01           A         DATA,1   1             PRINT
474   01 000D0    02           A         DATA,1   2             TYPE
475   01 000D0 1  00           A         DATA,1   0             MIMESSAGE
476   01 000D0 2  08           A         DATA,1   8             ENQ
477   01 000D0 3  09           A         DATA,1   9             DEQ
478                                      BOUND    4

480   01 000D1    641000B4         CHKCAL4  BDR,R1   CHKCAL3
481   01 000D2    680000DB                  B        BADCAL
482   01 000D3    64100082         CHKCAL2  BDR,R1   CHKCAL1
483   01 000D4    207FFFFF A                AI,7     -1
484   01 000D5    22F00000 N                LI,R15   I0SDEV
485   01 000D6    2210000F A                LI,R1    NC11DEVS
486   01 000D7    718200BF                  CB,SR1   DEVCDS,R1
487   01 000D8    693000DA                  BNE      $+2
488   01 000D9    68000088                  B        C11TV
489   01 000DA    641000D7                  BDR,R1   $-3
490   01 000DB    22E000AE A       BADCAL   LI,14     X'AE'
491   01 000DC    68000000 X                B        CALBAD
492   01 000DD    2161FFF0 A       CVREG    CI,6     X'1FFF0'        CHK REG
```

```
493   01 000DE   694000E0          BANZ    *+2             SKIP IF NOT
494   01 000DF   30600000 X        AW,6    JIBASE          REG LOC IN STACK
495   01 000E0   326C0000 A        LW,6    0,6             GET CONTENTS
496   01 000E1   68080000 A        B       0,4             RETURN
```

```
498                 01 000F2                TISTPMT  EQU      *                SET C8C PR8MPT CHARACTER
499     01 000E2     22100000 N                       LI,1     JB!PR8MPT
500     01 000E3     75620000 A                       STB,6    0,1              SAVE IN JIT F8R SAVE
501     01 000E4     68000000 X                       B        CC1RST
```

```
503                 *
504                 *D*     NAME:           I8SPRTN
505                 *D*
506                 *D*     ENTRY:          I8SPRTNM
507                 *D*
508                 *D*     REGISTERS:      ALL V8LATILE
509                 *D*
510                 *D*     CALL:           BRANCH
511                 *D*
512                 *D*     INTERFACE:      TRAPEXIT, T:ACCT8V
513                 *D*
514                 *D*     INPUT:          T8P 19 W8RDS 8F TSTACK C8NTAIN USER CAL ENVIR8N.
515                 *D*                     SR1 = ZER8 IF N8 ERR8R, 8THERWISE THE USER
516                 *D*                           ADDRESSS T8 RETURN T8.
517                 *D*                     SR3 = VALUE T8 BE PUT INT8 USER SR3 (8NLY IF
518                 *D*                           SR1 N8N=ZER8).
519                 *D*                     J:BASE P8INTS T8 USER'S R0 (I8SPRTNM 8NLY).
520                 *D*
521                 *D*     8UTPUT:         N8NE IF SR1=0.  8THERWISE, SR1 AND SR3 ARE
522                 *D*                     PLACED IN USER SR1 AND SR3, AND USER PSD
523                 *D*                     ADDRESS IS CHANGED T8 L8W 8RDER 17 BITS 8F SR1.
524                 *D*
525                 *D*                     IF SR1 = 0 (N8 ERR8R), G8 T8 TRAPEXIT WHICH
526                 *D*                     RETURNS T8 CAL+1.  IF ERR8R, CHANGE USER SR1 AND
527                 *D*                     SR3 AND USER PSD, & RETURN T8 USER VIA T:ACCT8V.
528                 *D*
529                 *D*                     I8SPRTNM IS RETURN FR8M M:MERC CAL.  SR1 IS
530                 *D*                     F8RCED T8 BE THE USER:S SR1, WHICH IS THE ADDRES
531                 *D*                     T8 RETURN T8.
532                 *D*
533                 *D*     DESCRIPTI8N:    FINAL EXIT FR8M ALL CAL1:S.
534                 *D*
```

```
536   01 000E5   22100008 A  I8SPRTNM LI,R1    SR1
537   01 000E6   B2820000 X            LW,SR1   *JIBASE,R1        GET USERIS SR1
538        01 000F7          I8SPRTN  EQU      $
539   01 000E7   20800000 A            AI,SR1   0
540   01 000E8   68300000 X            BEZ      TRAPEXIT
541   01 000E9   32100000 X            LW,R1    TSTACK
542   01 000EA   35A3FFFB A            STW,SR3  *5,R1
543   01 000EB   201FFFEF A            AI,R1    *17
544   01 000EC   92200001 A            LD,R2    *R1
545   01 000ED   2291FFFF A            LI,SR2   X'1FFFF'
546   01 000EE   20200001 A            AI,R2    1
547   01 000EF   3522000A A            STW,R2   10,R1
548   01 000F0   47800002 A            STS,SR1  R2
549   01 000F1   95200001 A            STD,R2   *R1
550   01 000F2   68000000 X            B        TIACCTBV
551                                    END
```

CONTROL SECTION SUMMARY: 01 000F3 PT 0

* SYMBOL VALUES

ABA/00000004
ACD/00000015
ACNDISP/00000009
ACNMAX/0000000C
ACS/00000005
ADDR:ADDR/01 00004
AGER/00000009
AGV/00000000
ANLZSB/01 00010
ANLZ1/01 00014
ANLZ2/01 0001A
ANSPRBC/00000000
ARS/00000004
ASN/00000000
ATINVAT/00000005
ATCYLBIT/00008000
ATPRIVBIT/00004000
BAATNGC/00000007
BAAVRNBU/00000005
BACIS/0000002C
BACBS/0000002C
BACSC/00000038
BACVI/00000024
BACVB/00000024
BADCAL/01 000DB
BADEVTP/00000006
BADSC/0000004C
BADSI/00000007
BAFCN/0000001C
BAFILDISP/0000002C
BAFUNM/00000007
BAHSC/00000050
BAIMT/00000038
BAKEYM/00000030
BALVA/00000029
BANLR/00000015
BANRA/00000008
BARG/00000017
BAVBC/0000002D
BARAX/00000015
BARNDEV/00000016
BASCR/00000044
BASLIDES/00000003
BASPARE/0000004F
BASVA/0000004D
BAVDCTX/00000028
BAVNB/0000002C
BAVSND/00000024
BBUD/00000010
BCDA/0000000F
BFL/00000010
BITS/00000000
BLINK/00000000
BLK/00000006
BTD/00000000
BUF/00000002
BUFF1/00009400
BUFF2/00009600
BUFSIZ/00000800
BUFX/00000009
BUF1/FUNC
BUF1MSK/0000001F
BUF2/FUNC
BUF2MSK/000003E0
CAL1/01 00027
CAL11/01 00030
CAL11DCB/01 00036
CAL11FPT/01 00072
CAL11M/01 00036
CAL11MAP/01 0005B
CAL11X/01 0003F
CAL12/01 000B2
CBD/00000012
CCBD/00000004
CDA/00000008
CDAM/00000002
CFU/00000001
CFUPRIVBIT/00010000
CHKCAL1/01 000R2
CHKCAL2/01 000D3
CHKCAL3/01 000B4
CHKCAL4/01 000D1
CHKENQ/01 000BD
CHKRLBP3/01 00081
CIS/0000000B
CLK/0000000C
CMD/00000014
CBS/0000000B
CSC/0000000E
CVA/00000014
CVI/00000009
CVB/00000009
CVREG/01 000DD
CYL/00000000
C1TV/01 0002D
C11CDS/01 00098
C11TV/01 00088
C12CDS/01 000CF
C12TV/01 000C4
DCBCYLBIT/00020000
DCBNBSEPBIT/00000200
DCBCDAM/00000015
DCBPRBC/00000000
DCBSWXVBIT/00008000
DCBPRIVBIT/00000800
DISCBPRBC/00000000
DPADFDA/00010002
DPFDFDA/00010004
DEVCDS/01 0009F
DIR/00000000
DSI/00000001
D1/0000000C
D3/0000000E
DSC/00000013
EGV/00000000
EBP/00000000
EPCLS/01 000A6
D4/0000000F
EPDEL/01 000A9
EPMBVE/01 000AF
EPBPN/01 000A3
EPCVBL/01 000AC
EXT/00000000
FCD/00000000
FCN/00000007
ERA/00000003
FDA/00000001
FILDISP/0000000B
FIL1/00000005
FCBN/00000000
FLINK/00000001
FLP/00000006
FNEMAX/00000020
FLD/00000015
FRM/00000000
FSP/00000007
FUN/00000001
FPARAM/0000000B
GAVAL/00000003
GBRDWT1/EXT
HAACD/0000002A
FVA/00000014
HACCBD/00000008

```
    HACMD/00000028          HAFLD/0000002B          HAPBD/00000029          HASND/00000019
    HICAL/00000002          HLC/00000013            HSC/00000014            HWDSI/00000003
    IMT/0000000E            IODTYOVLY/01 000BB      IOSPRTNM/01 000E5       KAD/00000012
    KBUF/0000000A           KEYM/0000000C           LDA/00000007            LRDLO/0000004E
    LSLIDES/0000004D        LVA/0000000A            M#UCM#XX/01 00000       MAXACN/00000010
    MBG/00000000            MERCAL/01 000CD         MIDIS/0000000C          MISOVLY/01 000C2
    MIUD/00000010           MOD/00000000            MONPROC/00000001        MPBITS/00000000
    MSRKEY/01 000C1         NAV/00000004            NAVX/00000002           NC11DEVS/0000000F
    NC11S/0000000F          NC12S/00000007          NLR/00000005            NOSEP/00000000
    NOU/00000000            NRA/00000002            NVA/00000008            NWK/00000005
    NXTA/00000010           NXTF/00000005           ONWK/00000005           ORG/00000005
    OVC/0000000B            PAT/00000011            PBD/00000014            PCK/00000000
    PRIV/00000000           QBUF/00000007           RAX/00000005            RDLO/0000004C
    RLIM/00000015           RNDEV/00000005          RNR/00000010            RSTORE/00000014
    RSZ/00000003            RWS/0000000D            RO/00000000             R1/00000001
    R10/0000000A            R11/0000000B            R12/0000000C            R13/0000000D
    R14/0000000E            R15/0000000F            R2/00000002             R3/00000003
    R4/00000004             R5/00000005             R6/00000006             R7/00000007
    R8/00000008             R9/00000009             SCFU/00000004           SCR/00000011
    SEQ/00000005            SETFLG1/EXT             SID/00000015            SND/0000000C
    SQS/00000014            SREC/00000006           SR1/00000008            SR2/00000009
    SR3/0000000A            SR4/0000000B            SVA/00000013            SWXV/00000000
    S69PROC/00000001        T;STPMT/01 000E2        TAB1/0000000F           TCFU/0000000F
    TDA/00000005            TLB/0000000E            TOF/00000000            TOPMSK/00007C00
    TRN/00000005            TTL/00000000            TYC/00000002            UFLAGS/00000000
    ULB/0000000C            USR/00000000            UTSPROC/00000001        VDCTX/0000000A
    VFC/00000000            VNO/0000000B            VSND/00000009           VTOC;BITMAP/00000007
    VTOC;MAPWL/00000004     VTOC;NVAT/00000005      VTOC;SNTD/00000003      WAT/00000000
    WFNEMAX/00000008        WRDLO/00000013          WXBUFSIZ/00000100       XBUFSIZ/00000400
    11D01/01 00049          11D1/01 00058           11D2/01 00059           11D4/01 0003B
    11D5/01 00046           11D6/01 0004D           11D8/01 00051           11M1/01 00069
    11M2/01 00070           424;724/01 00002
*   EXTERNAL DEFINITIONS
    CALPROC/01 00000        CAL1P11/01 0000A        CAL11NB/01 00035        CAL11N3/01 00034
    IOSPRTN/01 000F7        S;BUFMCD/01 00006
*   PRIMARY REFERENCES
    BLOCKER         CALBAD          CALCK           CAL1PSD         CAL11N7         CC1RST          CLSSEG
```

```
        DLTSEG          I0CHEK          I0DTYSEG        I0SDEV          J:BASE          J:CALCNT        J:DCBLIN
        J:JIT           JB:PR0MPT       JX:CMAP         JXBUFVP         LBLTSEG         M:UC            M:XX
        MERC            MIS0VSEG        MSRKEY#         MSR0CTY         MSRTFILE#       MSRTYPR         M17
        M3              0PNSEG          PFIL#           PREC0RD#        REW#            T:ACCT0V        T:J0BENT
        T:0VER          T:0VERLAY       T:REMEMBER      TRAPEXIT        TRNC            TSTACK          TXTCFU
        WE0F#           !BIG
*     SEC0NDARY REFERENCES
        C:CAL           ENQ             QT
* N0 UNDEFINED SYMB0LS
*     ERR0R SEVERITY LEVEL: 0
* N0 ERR0R LINES
```