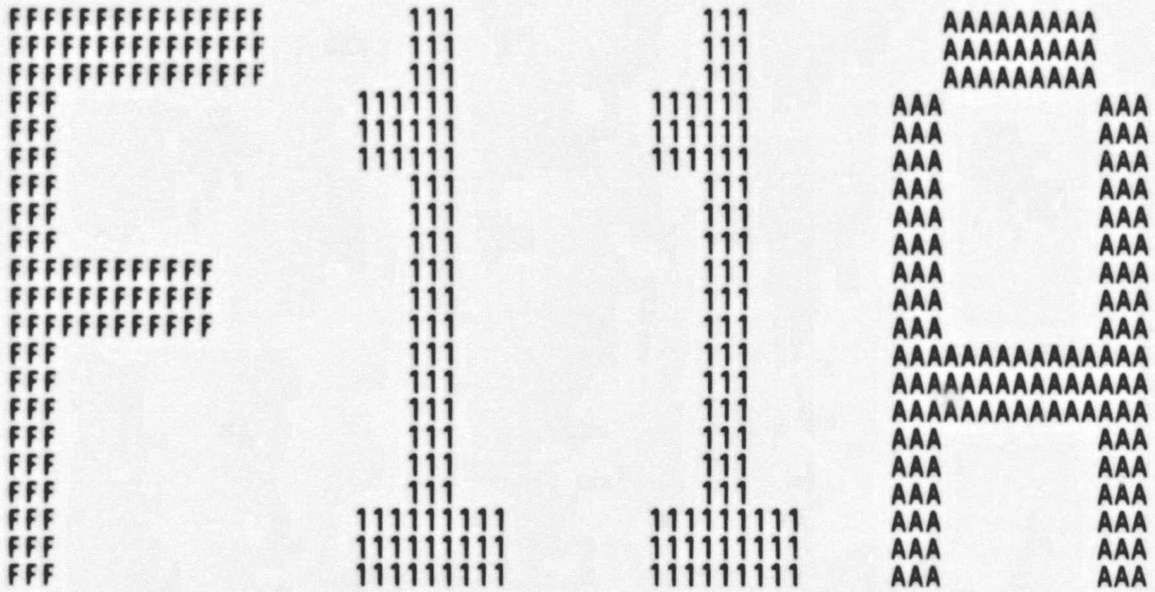
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FILEID**SCHFCB

```
  SSSSSSSS    CCCCCCCC  HH      HH  FFFFFFFFFF    CCCCCCCC  BBBBBBBB
  SSSSSSSS    CCCCCCCC  HH      HH  FFFFFFFFFF    CCCCCCCC  BBBBBBBB
SS          CC          HH      HH  FF          CC          BB      BB
SS          CC          HH      HH  FF          CC          BB      BB
SS          CC          HH      HH  FF          CC          BB      BB
SS          CC          HH      HH  FF          CC          BB      BB
  SSSSSS    CC          HHHHHHHHHH  FFFFFFFF    CC          BBBBBBBB
  SSSSSS    CC          HHHHHHHHHH  FFFFFFFF    CC          BBBBBBBB
        SS  CC          HH      HH  FF          CC          BB      BB
        SS  CC          HH      HH  FF          CC          BB      BB
        SS  CC          HH      HH  FF          CC          BB      BB     ....
        SS  CC          HH      HH  FF          CC          BB      BB     ....
SSSSSSSS      CCCCCCCC  HH      HH  FF            CCCCCCCC  BBBBBBBB       ....
SSSSSSSS      CCCCCCCC  HH      HH  FF            CCCCCCCC  BBBBBBBB       ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
;     1          0001  0 MODULE SCHFCB (
;     2          0002  0                 LANGUAGE (BLISS32),
;     3          0003  0                 IDENT = 'V04-000'
;     4          0004  0                 ) =
;     5          0005  1 BEGIN
;     6          0006  1
;     7          0007  1 !
;     8          0008  1 !**************************************************************************
;     9          0009  1 !*                                                                        *
;    10          0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                              *
;    11          0011  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                *
;    12          0012  1 !*  ALL RIGHTS RESERVED.                                                  *
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;    15          0015  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
;    16          0016  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
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;    20          0020  1 !*                                                                        *
;    21          0021  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
;    22          0022  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
;    23          0023  1 !*  CORPORATION.                                                           *
;    24          0024  1 !*                                                                        *
;    25          0025  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
;    26          0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                *
;    27          0027  1 !*                                                                        *
;    28          0028  1 !*                                                                        *
;    29          0029  1 !**************************************************************************
;    30          0030  1
;    31          0031  1 !++
;    32          0032  1 !
;    33          0033  1 ! FACILITY:  F11ACP Structure Level 1
;    34          0034  1 !
;    35          0035  1 ! ABSTRACT:
;    36          0036  1 !
;    37          0037  1 !       This routine searches the current volume's FCB list for the
;    38          0038  1 !       FCB representing the desired file number.
;    39          0039  1 !
;    40          0040  1 ! ENVIRONMENT:
;    41          0041  1 !
;    42          0042  1 !       STARLET operating system, including privileged system services
;    43          0043  1 !       and internal exec routines.
;    44          0044  1 !
;    45          0045  1 !--
;    46          0046  1 !
;    47          0047  1 !
;    48          0048  1 ! AUTHOR:  Andrew C. Goldstein,  CREATION DATE:  13-Dec-1976  15:41
;    49          0049  1 !
;    50          0050  1 ! MODIFIED BY:
;    51          0051  1 !
;    52          0052  1 !       A0101   ACG26369        Andrew C. Goldstein,    31-Dec-1979  17:05
;    53          0053  1 !               Fix multi-header file interlock bug
;    54          0054  1 !
;    55          0055  1 !       A0100   ACG00001        Andrew C. Goldstein,  10-Oct-1978  20:03
;    56          0056  1 !       Previous revision history moved to F11A.REV
;    57          0057  1 !**
```

```
;    58          0058  1
;    59          0059  1
;    60          0060  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    61          0061  1 REQUIRE 'SRC$:FCPDEF.B32';
```

```
;    63          0376  1 GLOBAL ROUTINE SEARCH_FCB (FILE_ID) =
;    64          0377  1
;    65          0378  1 !++
;    66          0379  1 !
;    67          0380  1 ! FUNCTIONAL DESCRIPTION:
;    68          0381  1 !
;    69          0382  1 !       This routine searches the current volume's FCB list for the
;    70          0383  1 !       FCB representing the desired file number.
;    71          0384  1 !
;    72          0385  1 !
;    73          0386  1 ! CALLING SEQUENCE:
;    74          0387  1 !       SEARCH_FCB (ARG1)
;    75          0388  1 !
;    76          0389  1 ! INPUT PARAMETERS:
;    77          0390  1 !       ARG1: address of desired file ID
;    78          0391  1 !
;    79          0392  1 ! IMPLICIT INPUTS:
;    80          0393  1 !       CURRENT_VCB: VCB address of volume
;    81          0394  1 !
;    82          0395  1 ! OUTPUT PARAMETERS:
;    83          0396  1 !       NONE
;    84          0397  1 !
;    85          0398  1 ! IMPLICIT OUTPUTS:
;    86          0399  1 !       NONE
;    87          0400  1 !
;    88          0401  1 ! ROUTINE VALUE:
;    89          0402  1 !       FCB address if found
;    90          0403  1 !       zero if not
;    91          0404  1 !
;    92          0405  1 ! SIDE EFFECTS:
;    93          0406  1 !       NONE
;    94          0407  1 !
;    95          0408  1 !--
;    96          0409  1
;    97          0410  2 BEGIN
;    98          0411  2
;    99          0412  2 MAP
;   100          0413  2         FILE_ID         : REF BBLOCK;   ! file ID arg
;   101          0414  2
;   102          0415  2 LOCAL
;   103          0416  2         FCB             : REF BBLOCK,   ! current FCB being looked at
;   104          0417  2         PREV_FCB        : REF BBLOCK;   ! previous FCB in list
;   105          0418  2
;   106          0419  2 EXTERNAL
;   107          0420  2         CURRENT_VCB     : REF BBLOCK;   ! VCB of volume in process
;   108          0421  2
;   109          0422  2 ! Init the pointers and start scanning the FCB list, which is a double
;   110          0423  2 ! linked list. Check for consistency of pointers and the block ID for each
;   111          0424  2 ! FCB. We win when the FCB containing the desired file number is found;
;   112          0425  2 ! we lose at end of list (pointing back to the VCB).
;   113          0426  2 !
;   114          0427  2
;   115          0428  2 PREV_FCB = .CURRENT_VCB;
;   116          0429  2 FCB = .CURRENT_VCB[VCB$L_FCBFL];
;   117          0430  2
;   118          0431  2 IF
;   119          0432  3     BEGIN
```

```
;  120          0433  3     UNTIL .FCB EQL .CURRENT_VCB DO
;  121          0434  4         BEGIN
;  122          0435  4         IF .FCB[FCB$B_TYPE] EQL DYN$C_FCB
;  123          0436  4         AND .FCB[FCB$L_FCBBL] EQL .PREV_FCB
;  124          0437  4         THEN
;  125          0438  5             BEGIN
;  126          0439  5             IF  .FILE_ID[FID$W_NUM] EQL .FCB[FCB$W_FID_NUM]
;  127          0440  5             THEN EXITLOOP .FCB;
;  128          0441  5
;  129          0442  5             PREV_FCB = .FCB;            ! link to next FCB
;  130          0443  5             FCB = .FCB[FCB$L_FCBFL];
;  131          0444  5             END
;  132          0445  4         ELSE
;  133          0446  4             BUG_CHECK (NOTFCBFCB, FATAL, 'FCB linkage broken');
;  134          0447  4         END                             ! end of loop
;  135          0448  3     END
;  136          0449  3
;  137          0450  2     EQL -1
;  138          0451  2 THEN 0                                  ! return 0 if loop failed
;  139          0452  2 ELSE .FCB                               ! else FCB address
;  140          0453  2
;  141          0454  1 END;                                    ! end of routine SEARCH_FCB


                                                        .TITLE  SCHFCB
                                                        .IDENT  \V04-000\

                                                        .EXTRN  CURRENT_VCB, BUG$_NOTFCBFCB

                                                        .PSECT  $CODE$,NOWRT,2

                                    0000 00000          .ENTRY  SEARCH_FCB, Save nothing        ; 0376
                          51    0000G CF   D0 00002     MOVL    CURRENT_VCB, PREV_FCB           ; 0428
                          50    0000G DF   D0 00007     MOVL    @CURRENT_VCB, FCB               ; 0429
                    0000G CF          50   D1 0000C 1$: CMPL    FCB, CURRENT_VCB                ; 0433
                                      26   13 00011     BEQL    4$
                          07      0A  A0   91 00013     CMPB    10(FCB), #7                     ; 0435
                                      1A   12 00017     BNEQ    3$
                          51      04  A0   D1 00019     CMPL    4(FCB), PREV_FCB                ; 0436
                                      14   12 0001D     BNEQ    3$
                       24 A0      04  BC   B1 0001F     CMPW    @FILE_ID, 36(FCB)               ; 0439
                                      05   12 00024     BNEQ    2$
                          51          50   D0 00026     MOVL    FCB, R1                         ; 0440
                                      11   11 00029     BRB     5$
                          51          50   D0 0002B 2$: MOVL    FCB, PREV_FCB                   ; 0442
                          50          60   D0 0002E     MOVL    (FCB), FCB                      ; 0443
                                      D9   11 00031     BRB     1$                              ; 0435
                                    FEFF   00033 3$:    BUGW                                    ; 0446
                                    0000*  00035        .WORD   <BUG$_NOTFCBFCB!4>
                                      D3   11 00037     BRB     1$                              ; 0433
                          51          01   CE 00039 4$: MNEGL   #1, R1
                    FFFFFFFF      8F    51   D1 0003C 5$: CMPL    R1, #-1                         ; 0450
                                      02   12 00043     BNEQ    6$
                                      50   D4 00045     CLRL    R0                              ; 0431
                                           04 00047 6$: RET                                     ; 0454

; Routine Size:  72 bytes,    Routine Base:  $CODE$ + 0000
```

```
;  142          0455  1
;  143          0456  1 END
;  144          0457  0 ELUDOM



;                                PSECT SUMMARY

;       Name                    Bytes                           Attributes

;  $CODE$                         72  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                              Library Statistics

;                                        --------  Symbols  --------      Pages       Processing
;       File                             Total    Loaded   Percent       Mapped      Time

;  _$255$DUA28:[SYSLIB]LIB.L32;1          18619         8         0         1000        00:01.9



;                                       COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:SCHFCB/OBJ=OBJ$:SCHFCB MSRC$:SCHFCB/UPDATE=(ENH$:SCHFCB)

; Size:          72 code + 0 data bytes
; Run Time:          00:06.0
; Elapsed Time:      00:18.2
; Lines/CPU Min:      4600
; Lexemes/CPU-Min: 12110
; Memory Used:  68 pages
; Compilation Complete
```

REQUEU
LIS

RWATTR
LIS

MODIFY
LIS

SCHFCB
LIS

MAKAEC
LIS

MPWIND
LIS

MAPVBN
LIS

PMS
LIS

RDHEDR
LIS

RWVB
LIS

RETDIR
LIS

RDBLOK
LIS

SMALOC
LIS

MOUNT
LIS

MAKNMB
LIS

MAKSTR
LIS

MXTHDR
LIS