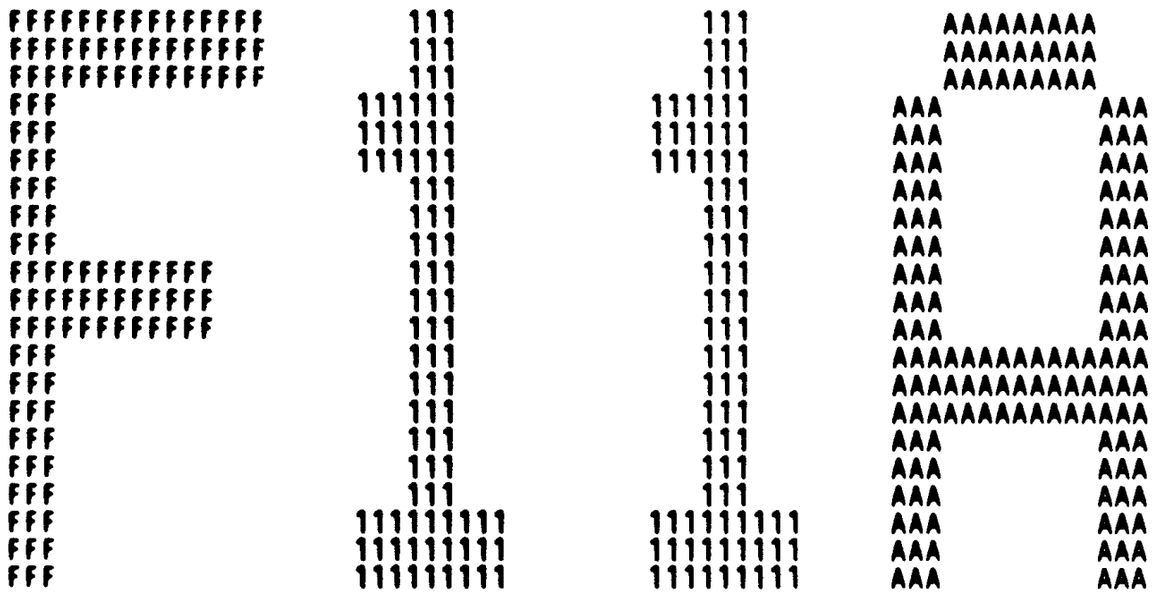
FFFFFFFFFFFFFFF
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FILEID**INIFCB

```
IIIIII    NN       NN    IIIIII    FFFFFFFFFF    CCCCCCCC  BBBBBBBB
IIIIII    NN       NN    IIIIII    FFFFFFFFFF    CCCCCCCC  BBBBBBBB
  II      NN       NN      II      FF            CC        BB      BB
  II      NN       NN      II      FF            CC        BB      BB
  II      NNNN     NN      II      FF            CC        BB      BB
  II      NNNN     NN      II      FF            CC        BB      BB
  II      NN NN    NN      II      FFFFFFFF      CC        BBBBBBBB
  II      NN NN    NN      II      FFFFFFFF      CC        BBBBBBBB
  II      NN   NNNN       II      FF            CC        BB      BB
  II      NN   NNNN       II      FF            CC        BB      BB
  II      NN       NN      II      FF            CC        BB      BB
  II      NN       NN      II      FF            CC        BB      BB
IIIIII    NN       NN    IIIIII    FF              CCCCCCCC  BBBBBBBB
IIIIII    NN       NN    IIIIII    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 INIFCB (
;     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.            *
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;    19          0019  1 !*  TRANSFERRED.                                                       *
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;    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   *
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;    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 !       These routines create and initialize a file control block
;    38          0038  1 !       from the given file header.
;    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. These routines must be called in
;    44          0044  1 !       kernel mode.
;    45          0045  1 !
;    46          0046  1 !
;    47          0047  1 !--
;    48          0048  1 !
;    49          0049  1 !
;    50          0050  1 ! AUTHOR:  Andrew C. Goldstein,  CREATION DATE:  14-Dec-1976  16:48
;    51          0051  1 !
;    52          0052  1 ! MODIFIED BY:
;    53          0053  1 !
;    54          0054  1 !       V03-002 LMP0221         L. Mark Pilant,         31-Mar-1984  12:16
;    55          0055  1 !               Add support for an ORB in the FCB.
;    56          0056  1 !
;    57          0057  1 !       V03-001 STJ3108         Steven T. Jeffreys,   24-Jun-1983
```

```
;    58          0058  1 !                   Fix link truncation error.
;    59          0059  1 !
;    60          0060  1 !       A0100   ACG0001         Andrew C. Goldstein,  10-Oct-1978  20:01
;    61          0061  1 !                   Previous revision history moved to F11A.REV
;    62          0062  1 !
;    63          0063  1 !**
;    64          0064  1
;    65          0065  1
;    66          0066  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    67          0067  1 REQUIRE 'SRC$:FCPDEF.B32';
```

```
;    69          0382  1 GLOBAL ROUTINE INIT_FCB (FCB, HEADER) : NOVALUE =
;    70          0383  1
;    71          0384  1 !++
;    72          0385  1 !
;    73          0386  1 ! FUNCTIONAL DESCRIPTION:
;    74          0387  1 !
;    75          0388  1 !       This routine initializes the given FCB according to the given
;    76          0389  1 !       file header.
;    77          0390  1 !
;    78          0391  1 ! CALLING SEQUENCE:
;    79          0392  1 !       INIT_FCB (ARG1, ARG2)
;    80          0393  1 !
;    81          0394  1 ! INPUT PARAMETERS:
;    82          0395  1 !       ARG1: FCB address
;    83          0396  1 !       ARG2: header address
;    84          0397  1 !
;    85          0398  1 ! IMPLICIT INPUTS:
;    86          0399  1 !       HEADER_LBN contains LBN of header block
;    87          0400  1 !
;    88          0401  1 ! OUTPUT PARAMETERS:
;    89          0402  1 !       NONE
;    90          0403  1 !
;    91          0404  1 ! IMPLICIT OUTPUTS:
;    92          0405  1 !       NONE
;    93          0406  1 !
;    94          0407  1 ! ROUTINE VALUE:
;    95          0408  1 !       NONE
;    96          0409  1 !
;    97          0410  1 ! SIDE EFFECTS:
;    98          0411  1 !       FCB initialized
;    99          0412  1 !
;   100          0413  1 !--
;   101          0414  1
;   102          0415  2 BEGIN
;   103          0416  2
;   104          0417  2 MAP
;   105          0418  2         FCB             : REF BBLOCK,   ! FCB argument
;   106          0419  2         HEADER          : REF BBLOCK;   ! file header arg
;   107          0420  2
;   108          0421  2 LOCAL
;   109          0422  2         FCB_ORB         : REF BBLOCK,   ! Address of the ORB within the FCB
;   110          0423  2         MAP_AREA        : REF BBLOCK,   ! pointer to header map area
;   111          0424  2         MAP_COUNT,                      ! count of map pointers
;   112          0425  2         MAP_POINTER     : REF BBLOCK,   ! pointer to scan map
;   113          0426  2         FILESIZE;                       ! size of file in blocks
;   114          0427  2
;   115          0428  2 EXTERNAL
;   116          0429  2         HEADER_LBN      : ADDRESSING_MODE (GENERAL);    ! LBN of file header
;   117          0430  2
;   118          0431  2 ! Set up the ORB address.
;   119          0432  2
;   120          0433  2 FCB_ORB = FCB[FCB$R_ORB];
;   121          0434  2
;   122          0435  2 ! Get the known constants and the simple stuff from the file header
;   123          0436  2 ! (i.e., header LBN, file ID, starting VBN, file owner and file protection).
;   124          0437  2 !
;   125          0438  2
```

```
;  126          0439  2 FCB[FCB$L_HDLBN]        = .HEADER_LBN;
;  127          0440  2 FCB[FCB$W_FID_NUM]      = .HEADER[FH1$W_FID_NUM];
;  128          0441  2 FCB[FCB$W_FID_SEQ]      = .HEADER[FH1$W_FID_SEQ];
;  129          0442  2 FCB_ORB[ORB$W_UICMEMBER]= .HEADER[FH1$B_UICMEMBER];
;  130          0443  2 FCB_ORB[ORB$W_UICGROUP] = .HEADER[FH1$B_UICGROUP];
;  131          0444  2 FCB_ORB[ORB$V_PROT_16] = 1;
;  132          0445  2 FCB_ORB[ORB$W_PROT]     = .HEADER[FH1$W_FILEPROT];
;  133          0446  2 IF .HEADER[FH1$V_SPOOL] THEN FCB[FCB$V_SPOOL] = 1;
;  134          0447  2 FCB[FCB$L_EFBLK]        = ROT (.BBLOCK[HEADER[FH1$W_RECATTR], FAT$L_EFBLK], 16);
;  135          0448  2 IF  .FCB[FCB$L_EFBLK] NEQ 0
;  136          0449  2 AND .BBLOCK[HEADER[FH1$W_RECATTR], FAT$W_FFBYTE] EQL 0
;  137          0450  2 THEN FCB[FCB$L_EFBLK] = .FCB[FCB$L_EFBLK] - 1;
;  138          0451  2
;  139          0452  2 ! Now scan the map area. Get the starting LBN if the file is contiguous
;  140          0453  2 ! and count up the file size from the retrieval pointers.
;  141          0454  2 !
;  142          0455  2
;  143          0456  2 MAP_AREA = .HEADER + .HEADER[FH1$B_MPOFFSET]*2;
;  144          0457  2 MAP_POINTER = .MAP_AREA + FM1$C_POINTERS;
;  145          0458  2 FCB[FCB$W_SEGN] = .MAP_AREA[FM1$B_EX_SEGNUM];
;  146          0459  2
;  147          0460  2 FCB[FCB$L_STLBN] = 0;                    ! assume non-contiguous file
;  148          0461  2 IF .HEADER[FH1$V_CONTIG]
;  149          0462  2 THEN
;  150          0463  3     BEGIN
;  151          0464  3     FCB[FCB$L_STLBN] = .MAP_POINTER[FM1$W_LOWLBN]; ! get low order LBN
;  152          0465  3     (FCB[FCB$L_STLBN])<16,8> = .MAP_POINTER[FM1$B_HIGHLBN]; ! and high order
;  153          0466  2     END;
;  154          0467  2
;  155          0468  2 FILESIZE = 0;
;  156          0469  2 DECR MAP_COUNT FROM .MAP_AREA[FM1$B_INUSE]/2 TO 1 DO
;  157          0470  3     BEGIN
;  158          0471  3     FILESIZE = .FILESIZE + .MAP_POINTER[FM1$B_COUNT] + 1;
;  159          0472  3     MAP_POINTER = .MAP_POINTER + 4;
;  160          0473  2     END;
;  161          0474  2 FCB[FCB$L_FILESIZE] = .FILESIZE;
;  162          0475  2
;  163          0476  2 IF .FCB[FCB$L_EFBLK] GTR .FILESIZE
;  164          0477  2 THEN FCB[FCB$L_EFBLK] = .FILESIZE;
;  165          0478  2
;  166          0479  1 END;                                    ! end of routine INIT_FCB

                                                    .TITLE  INIFCB
                                                    .IDENT  \V04-000\

                                                    .EXTRN  HEADER_LBN

                                                    .PSECT  $CODE$,NOWRT,2

                                        003C 00000  .ENTRY  INIT_FCB, Save R2,R3,R4,R5                  ; 0382
                    53        04    AC  D0 00002  MOVL    FCB, R3                                     ; 0433
                    50        58    A3  9E 00006  MOVAB   88(R3), FCB_ORB                             ;
                34  A3 00000000G    00  D0 0000A  MOVL    HEADER_LBN, 52(R3)                          ; 0439
                    52        08    AC  D0 00012  MOVL    HEADER, R2                                  ; 0440
                24  A3        02    A2  D0 00016  MOVL    2(R2), 36(R3)                               ;
                    60        08    A2  9B 0001B  MOVZBW  8(R2), (FCB_ORB)                            ; 0442
```

```
                02  A0      09   A2  9B 0001F          MOVZBW  9(R2), 2(FCB_ORB)                        ; 0443
                0B  A0          01  88 00024          BISB2   #1, 11(FCB_ORB)                          ; 0444
                18  A0      0A   A2  B0 00028          MOVW    10(R2), 24(FCB_ORB)                      ; 0445
            04  0D  A2          04  E1 0002D          BBC     #4, 13(R2), 1$                           ; 0446
                22  A3          10  88 00032          BISB2   #16, 34(R3)
                    55      3C   A3  9E 00036 1$:      MOVAB   60(R3), R5                               ; 0447
            65  16  A2          10  9C 0003A          ROTL    #16, 22(R2), (R5)
                               07  13 0003F          BEQL    2$                                       ; 0448
                           1A   A2  B5 00041          TSTW    26(R2)                                   ; 0449
                               02  12 00044          BNEQ    2$
                               65  D7 00046          DECL    (R5)                                     ; 0450
                    50      01   A2  9A 00048 2$:      MOVZBL  1(R2), R0                                ; 0456
                    51        6240  3E 0004C          MOVAW   (R2)[R0], MAP_AREA
                    50      0A   A1  9E 00050          MOVAB   10(R1), MAP_POINTER                      ; 0457
                2A  A3          61  9B 00054          MOVZBW  (MAP_AREA), 42(R3)                       ; 0458
                           30   A3  D4 00058          CLRL    48(R3)                                   ; 0460
                           0C   A2  95 0005B          TSTB    12(R2)                                   ; 0461
                               09  18 0005E          BGEQ    3$
                30  A3      02   A0  3C 00060          MOVZWL  2(MAP_POINTER), 48(R3)                   ; 0464
                32  A3          60  90 00065          MOVB    (MAP_POINTER), 50(R3)                    ; 0465
                               52  D4 00069 3$:      CLRL    FILESIZE                                 ; 0468
                    54      08   A1  9A 0006B          MOVZBL  8(MAP_AREA), R4                          ; 0469
                    54          02  C6 0006F          DIVL2   #2, R4
                               54  D6 00072          INCL    MAP_COUNT
                               0C  11 00074          BRB     5$
                    51      01   A0  9A 00076 4$:      MOVZBL  1(MAP_POINTER), R1                       ; 0471
                    52      01 A142  9E 0007A          MOVAB   1(R1)[FILESIZE], FILESIZE
                    50          04  C0 0007F          ADDL2   #4, MAP_POINTER                          ; 0472
                    F1          54  F5 00082 5$:      SOBGTR  MAP_COUNT, 4$                            ; 0469
                38  A3          52  D0 00085          MOVL    FILESIZE, 56(R3)                         ; 0474
                    52          65  D1 00089          CMPL    (R5), FILESIZE                           ; 0476
                               03  15 0008C          BLEQ    6$
                    65          52  D0 0008E          MOVL    FILESIZE, (R5)                           ; 0477
                                   04 00091 6$:      RET                                              ; 0479

; Routine Size:  146 bytes,    Routine Base:  $CODE$ + 0000

;  167          0480  1
;  168          0481  1 END
;  169          0482  0 ELUDOM



;                                   PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $CODE$                           146  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        31         0      1000          00:01.9
;
;
;
;
;
;                                        COMMAND QUALIFIERS
;
;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:INIFCB/OBJ=OBJ$:INIFCB MSRC$:INIFCB/UPDATE=(ENH$:INIFCB)
;
; Size:          146 code + 0 data bytes
; Run Time:        00:07.9
; Elapsed Time:    00:26.3
; Lines/CPU Min:    3642
; Lexemes/CPU-Min: 17410
; Memory Used:  110 pages
; Compilation Complete
```

EXTFCB.LIS

DELFIL.LIS

DIRGET.LIS

EXTIDX.LIS

IODONE.LIS

LOCKDN.LIS

ENTER.LIS

GETREQ.LIS

GETTIM.LIS

DISPAT.LIS

INIFCP.LIS

DIRFCB.LIS

EXTHDR.LIS

DIRSCN.LIS

LOGDEL.LIS

LOCKDB.LIS

FIND.LIS

GETFIB.LIS

DIRACC.LIS

INIFCB.LIS

EXTDIR.LIS

EXTEND.LIS