
MMM MMM TTTTTTTTTTTTTTT AAAAAAAAA AAAAAAAAA CCCCCCCCCCCC PPPPPPPPPPPP
MMM MMM TTTTTTTTTTTTTTT AAAAAAAAA AAAAAAAAA CCCCCCCCCCCC PPPPPPPPPPPP
MMM MMM TTTTTTTTTTTTTTT AAAAAAAAA AAAAAAAAA CCCCCCCCCCCC PPPPPPPPPPPP
MMMMMM MMMMMM TTT AAA AAA AAA AAA CCC PPP PPP
MMMMMM MMMMMM TTT AAA AAA AAA AAA CCC PPP PPP
MMMMMM MMMMMM TTT AAA AAA AAA AAA CCC PPP PPP
MMM MMM MMM TTT AAA AAA AAA AAA CCC PPP PPP
MMM MMM MMM TTT AAA AAA AAA AAA CCC PPP PPP
MMM MMM MMM TTT AAA AAA AAA AAA CCC PPP PPP
MMM MMM TTT AAA AAA AAA AAA CCC PPPPPPPPPPPP
MMM MMM TTT AAA AAA AAA AAA CCC PPPPPPPPPPPP
MMM MMM TTT AAA AAA AAA AAA CCC PPPPPPPPPPPP
MMM MMM TTT AAAAAAAAAAAAAAA AAAAAAAAAAAAAAA CCC PPP
MMM MMM TTT AAAAAAAAAAAAAAA AAAAAAAAAAAAAAA CCC PPP
MMM MMM TTT AAAAAAAAAAAAAAA AAAAAAAAAAAAAAA CCC PPP
MMM MMM TTT AAA AAA AAA AAA CCC PPP
MMM MMM TTT AAA AAA AAA AAA CCC PPP
MMM MMM TTT AAA AAA AAA AAA CCC PPP
MMM MMM TTT AAA AAA AAA AAA CCCCCCCCCCCC PPP
MMM MMM TTT AAA AAA AAA AAA CCCCCCCCCCCC PPP
MMM MMM TTT AAA AAA AAA AAA CCCCCCCCCCCC PPP

FILEID**GETFIB

```
  GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  FFFFFFFFFF    IIIIII    BBBBBBBB
  GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  FFFFFFFFFF    IIIIII    BBBBBBBB
GG          EE              TT      FF              II      BB      BB
GG          EE              TT      FF              II      BB      BB
GG          EE              TT      FF              II      BB      BB
GG          EE              TT      FF              II      BB      BB
GG          EEEEEEEE        TT      FFFFFFFF        II      BBBBBBBB
GG          EEEEEEEE        TT      FFFFFFFF        II      BBBBBBBB
GG  GGGGGG  EE              TT      FF              II      BB      BB
GG  GGGGGG  EE              TT      FF              II      BB      BB
GG      GG  EE              TT      FF              II      BB      BB
GG      GG  EE              TT      FF              II      BB      BB
  GGGGGG    EEEEEEEEEE      TT      FF            IIIIII    BBBBBBBB
  GGGGGG    EEEEEEEEEE      TT      FF            IIIIII    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
;     2          0002  0 MODULE GETFIB (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 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                             *
;    10          0010  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.               *
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;    26          0026  1 !*                                                                        *
;    27          0027  1 !*                                                                        *
;    28          0028  1 !**************************************************************************
;    29          0029  1
;    30          0030  1 !++
;    31          0031  1 !
;    32          0032  1 ! FACILITY:  MTAACP
;    33          0033  1 !
;    34          0034  1 ! ABSTRACT:
;    35          0035  1 !
;    36          0036  1 !       This routine obtains the address of the fib for this operation.
;    37          0037  1 !
;    38          0038  1 ! ENVIRONMENT:
;    39          0039  1 !
;    40          0040  1 !       Starlet operating system, including privileged system services
;    41          0041  1 !       and internal exec routines.
;    42          0042  1 !
;    43          0043  1 !--
;    44          0044  1
;    45          0045  1 !
;    46          0046  1 !
;    47          0047  1 ! AUTHOR:  D. H. GILLESPIE,      CREATION DATE:  11-MAY-1977  01:02
;    48          0048  1 !
;    49          0049  1 ! MODIFIED BY:
;    50          0050  1 !
;    51          0051  1 !       V02-002 REFORMAT        Maria del C. Nasr       30-Jun-1980
;    52          0052  1 !
;    53          0053  1 !
;    54          0054  1 !**
;    55          0055  1
;    56          0056  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    57          0057  1
```

```
;   58          0058  1 REQUIRE 'SRC$:MTADEF.B32';
;   59          0442  1
```

```
;    61          0443  1 GLOBAL ROUTINE GET_FIB (ABD) : COMMON_CALL =
;    62          0444  1
;    63          0445  1 !++
;    64          0446  1 !
;    65          0447  1 ! FUNCTIONAL DESCRIPTION:
;    66          0448  1 !
;    67          0449  1 !       This routine obtains the address of the fib for this operation.
;    68          0450  1 !       If a file is already accessed and fid is given than it must be that of the
;    69          0451  1 !       accessed file.  A copy is made in user space.
;    70          0452  1 !
;    71          0453  1 ! CALLING SEQUENCE:
;    72          0454  1 !       GET_FIB (ARG1)
;    73          0455  1 !
;    74          0456  1 ! INPUT PARAMETERS:
;    75          0457  1 !       ARG1    : address of buffer descriptor list
;    76          0458  1 !
;    77          0459  1 ! IMPLICIT INPUTS:
;    78          0460  1 !       CURRENT_WCB : address of user's window or 0
;    79          0461  1 !
;    80          0462  1 ! OUTPUT PARAMETERS:
;    81          0463  1 !       none
;    82          0464  1 !
;    83          0465  1 ! IMPLICIT OUTPUTS:
;    84          0466  1 !       none
;    85          0467  1 !
;    86          0468  1 ! ROUTINE VALUE:
;    87          0469  1 !       address of fib
;    88          0470  1 !
;    89          0471  1 ! SIDE EFFECTS:
;    90          0472  1 !       fid checked
;    91          0473  1 !
;    92          0474  1 ! USER ERRORS:
;    93          0475  1 !       SS$_INSFARG  - insufficient arguments
;    94          0476  1 !       SS$_BADPARAM - bad input parameters
;    95          0477  1 !
;    96          0478  1 !--
;    97          0479  1
;    98          0480  2     BEGIN
;    99          0481  2
;   100          0482  2     EXTERNAL REGISTER
;   101          0483  2         COMMON_REG;
;   102          0484  2
;   103          0485  2     MAP
;   104          0486  2         ABD     : REF BBLOCKVECTOR [, ABD$C_LENGTH];    ! buffer descriptors
;   105          0487  2
;   106          0488  2     LOCAL
;   107          0489  2         FIB             : REF BBLOCK,                   ! address of fib
;   108          0490  2         FIBL;                                           ! length of user fib
;   109          0491  2
;   110          0492  2     EXTERNAL
;   111          0493  2         LOCAL_FIB       : BBLOCK,                       ! internal copy of user fib
;   112          0494  2         IO_PACKET       : REF BBLOCK,                   ! address of current io request packet
;   113          0495  2         CURRENT_WCB     : REF BBLOCK;                   ! user's window
;   114          0496  2
;   115          0497  2     BIND
;   116          0498  2         LOC_FID = LOCAL_FIB[FIB$W_FID];
;   117          0499  2
```

```
;  118          0500  2      ! get the length of the user-supplied fib.
;  119          0501  2      !
;  120          0502  2      FIBL = .ABD[ABD$C_FIB, ABD$W_COUNT];
;  121          0503  2      FIB = .ABD[ABD$C_FIB, ABD$W_TEXT] + ABD[ABD$C_FIB, ABD$W_TEXT] + 1;
;  122          0504  2      CH$COPY(.FIBL, .FIB, 0, FIB$K_MTALEN, LOCAL_FIB);
;  123          0505  2
;  124          0506  2      ! if file open, the input fid must request same file
;  125          0507  2      !
;  126          0508  2      IF .CURRENT_WCB NEQ 0
;  127          0509  2      THEN
;  128          0510  3          BEGIN
;  129          0511  3
;  130          0512  3          IF .FIBL NEQ 0
;  131          0513  3              AND
;  132          0514  3              .FIBL LSS FIB$C_ACCDATA
;  133          0515  3          THEN
;  134          0516  3              ERR_EXIT(SS$_INSFARG);
;  135          0517  3
;  136          0518  3          IF .LOCAL_FIB[FIB$W_FID_NUM] EQL 0
;  137          0519  3          THEN
;  138          0520  4              BEGIN
;  139          0521  4              LOC_FID<0, 16> = .CURRENT_VCB[VCB$W_CUR_NUM];
;  140          0522  4              LOC_FID<16, 16> = 1;                    ! always return seq = 1
;  141          0523  4              LOCAL_FIB[FIB$W_FID_RVN] = .CURRENT_VCB[VCB$W_RVN];
;  142          0524  4              END;
;  143          0525  3
;  144          0526  3          IF .CURRENT_VCB[VCB$W_CUR_NUM] NEQ .LOC_FID<0, 16>
;  145          0527  3          THEN
;  146          0528  3              ERR_EXIT(SS$_BADPARAM);
;  147          0529  3
;  148          0530  3          END
;  149          0531  3
;  150          0532  3          ! If there is no file open, there must be a minimum fib.
;  151          0533  3          !
;  152          0534  2      ELSE
;  153          0535  3          BEGIN
;  154          0536  3
;  155          0537  3          IF .FIBL LSS FIB$C_ACCDATA
;  156          0538  3          THEN
;  157          0539  3              ERR_EXIT(SS$_INSFARG);
;  158          0540  3
;  159          0541  2          END;
;  160          0542  2
;  161          0543  2      RETURN LOCAL_FIB;
;  162          0544  2
;  163          0545  1      END;                                    ! end of routine get_fib

                                                .TITLE  GETFIB
                                                .IDENT  \V04-000\

                                                .EXTRN  LOCAL_FIB, IO_PACKET
                                                .EXTRN  CURRENT_WCB

                                                .PSECT  $CODE$,NOWRT,2

                                00FC 00000      .ENTRY  GET_FIB, Save R2,R3,R4,R5,R6,R7          ; 0443
```

```
                        57      0000G   CF   9E 00002         MOVAB   LOCAL_FIB+4, R7                                  ;
                        50        04    AC   D0 00007         MOVL    ABD, R0                                         ; 0502
                        56        0A    A0   3C 0000B         MOVZWL  10(R0), FIBL                                    ;
                        51        08    A0   9E 0000F         MOVAB   8(R0), R1                                       ; 0503
                        50              61   3C 00013         MOVZWL  (R1), R0                                        ;
                        50        01 A140    9E 00016         MOVAB   1(R1)[R0], FIB                                  ;
              1C    00          60           56   2C 0001B    MOVC5   FIBL, (FIB), #0, #28, LOCAL_FIB                 ; 0504
                              FC    A7         00020
                              0000G CF   D5 00022         TSTL    CURRENT_WCB                                     ; 0508
                                    28   13 00026         BEQL    3$                                              ;
                                    56   D5 00028         TSTL    FIBL                                            ; 0512
                                    09   13 0002A         BEQL    1$                                              ;
                              0A              56   D1 0002C    CMPL    FIBL, #10                                       ; 0514
                                    04   18 0002F         BGEQ    1$                                              ;
                              0114  8F   BF 00031         CHMU    #276                                            ; 0516
                                    67   B5 00035 1$:      TSTW    LOCAL_FIB+4                                     ; 0518
                                    0D   12 00037         BNEQ    2$                                              ;
                        67        24   AB   B0 00039         MOVW    36(CURRENT_VCB), LOC_FID                        ; 0521
                  02    A7        01   B0 0003D         MOVW    #1, LOC_FID+2                                   ; 0522
                  04    A7        0E   AB   B0 00041         MOVW    14(CURRENT_VCB), LOCAL_FIB+8                    ; 0523
                        67        24   AB   B1 00046 2$:      CMPW    36(CURRENT_VCB), LOC_FID                        ; 0526
                                    0D   13 0004A         BEQL    4$                                              ;
                                    14   BF 0004C         CHMU    #20                                             ; 0528
                                    09   11 0004E         BRB     4$                                              ; 0508
                              0A              56   D1 00050 3$:      CMPL    FIBL, #10                               ; 0537
                                    04   18 00053         BGEQ    4$                                              ;
                              0114  8F   BF 00055         CHMU    #276                                            ; 0539
                        50        FC   A7   9E 00059 4$:      MOVAB   LOCAL_FIB, R0                                   ; 0543
                                    04   0005D         RET                                                     ; 0545

; Routine Size:  94 bytes,    Routine Base:  $CODE$ + 0000

;  164          0546  1
;  165          0547  1 END
;  166          0548  1
;  167          0549  0 ELUDOM



;                                PSECT SUMMARY
;
;      Name                     Bytes                          Attributes
;
;  $CODE$                         94  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        17          0       1000          00:01.9



;                                       COMMAND QUALIFIERS

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

; Size:         94 code + 0 data bytes
; Run Time:         00:06.7
; Elapsed Time:     00:15.0
; Lines/CPU Min:     4887
; Lexemes/CPU-Min: 21071
; Memory Used:  88 pages
; Compilation Complete
```

FREEPG
LIS

DEACCS
LIS

FIND
LIS

DATECN
LIS

FRMOD1
LIS

CREATE
LIS

GETREQ
LIS

EXPIRE
LIS

CNTRL
LIS

FRMHDR
LIS

HEADER
LIS

COMLABPRC
LIS

ENDVOL
LIS

GETFIB
LIS