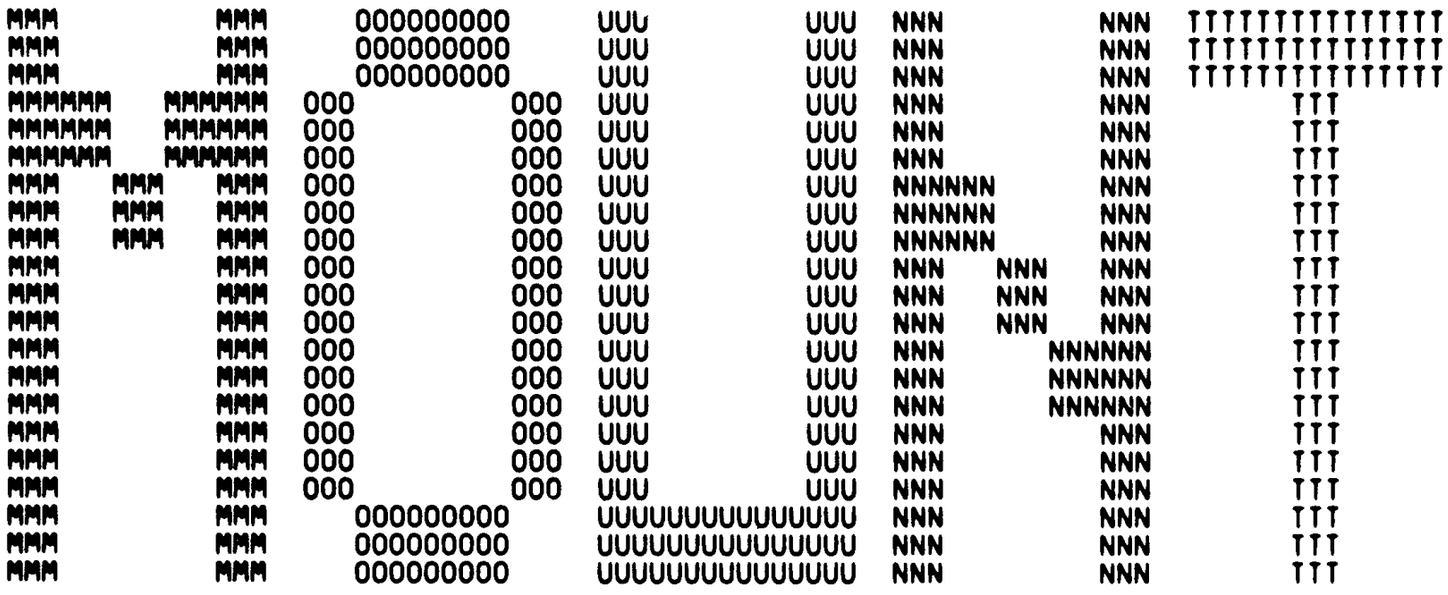
MMM MMM 000000000 UUU UUU NNN NNN TTTTTTTTTTTTTTT
MMM MMM 000000000 UUU UUU NNN NNN TTTTTTTTTTTTTTT
MMM MMM 000000000 UUU UUU NNN NNN TTTTTTTTTTTTTTT
MMMMMMM MMMMMMM 000 000 UUU UUU NNN NNN TTT
MMMMMMM MMMMMMM 000 000 UUU UUU NNN NNN TTT
MMMMMMM MMMMMMM 000 000 UUU UUU NNN NNN TTT
MMM MMM MMM 000 000 UUU UUU NNNNNN NNN TTT
MMM MMM MMM 000 000 UUU UUU NNNNNN NNN TTT
MMM MMM MMM 000 000 UUU UUU NNNNNN NNN TTT
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MMM MMM 000000000 UUUUUUUUUUUUUUUU NNN NNN TTT
MMM MMM 000000000 UUUUUUUUUUUUUUUU NNN NNN TTT

FILEID**CHKHM2

```
  CCCCCCCC  HH      HH  KK      KK  HH      HH  MM      MM    222222
  CCCCCCCC  HH      HH  KK      KK  HH      HH  MM      MM    222222
CC          HH      HH  KK      KK  HH      HH  MMMM  MMMM  22      22
CC          HH      HH  KK      KK  HH      HH  MMMM  MMMM  22      22
CC          HH      HH  KK    KK    HH      HH  MM  MM  MM          22
CC          HH      HH  KK    KK    HH      HH  MM  MM  MM          22
CC          HHHHHHHHHH  KKKKK       HHHHHHHHHH  MM      MM        22
CC          HHHHHHHHHH  KKKKK       HHHHHHHHHH  MM      MM        22
CC          HH      HH  KK    KK    HH      HH  MM      MM      22
CC          HH      HH  KK    KK    HH      HH  MM      MM      22
CC          HH      HH  KK      KK  HH      HH  MM      MM    22          ....
CC          HH      HH  KK      KK  HH      HH  MM      MM    22          ....
  CCCCCCCC  HH      HH  KK      KK  HH      HH  MM      MM  2222222222    ....
  CCCCCCCC  HH      HH  KK      KK  HH      HH  MM      MM  2222222222    ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
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 CHKHM2 (
;     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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;    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     *
;    17          0017  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY     *
;    18          0018  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY     *
;    19          0019  1 !*  TRANSFERRED.                                                              *
;    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:  MOUNT Utility Structure Level 2
;    34          0034  1 !
;    35          0035  1 ! ABSTRACT:
;    36          0036  1 !
;    37          0037  1 !       This routine verifies whether a given block is Files-11 Structure
;    38          0038  1 !       Level 2 home block.
;    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:  21-Nov-1977  19:23
;    49          0049  1 !
;    50          0050  1 ! MODIFIED BY:
;    51          0051  1 !
;    52          0052  1 !       V03-001 HH0041          Hai Huang                   24-Jul-1984
;    53          0053  1 !               Remove REQUIRE 'LIBD$:[VMSLIB.OBJ]MOUNTMSG.B32'.
;    54          0054  1 !
;    55          0055  1 !       V02-000 ACG0167         Andrew C. Goldstein,    18-Apr-1980  13:38
;    56          0056  1 !               Previous revision history moved to MOUNT.REV
;    57          0057  1 !--
```

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

```
;    63          0593  1 GLOBAL ROUTINE CHECK_HOMEBLK2 (HOME_BLOCK, LBN, VOLUME_LABEL) =
;    64          0594  1
;    65          0595  1 !++
;    66          0596  1 !
;    67          0597  1 ! FUNCTIONAL DESCRIPTION:
;    68          0598  1 !
;    69          0599  1 !       This routine verifies whether the given block is a Files-11 Structure
;    70          0600  1 !       Level 2 home block.
;    71          0601  1 !
;    72          0602  1 !
;    73          0603  1 ! CALLING SEQUENCE:
;    74          0604  1 !       CHECK_HOMEBLK2 (ARG1, ARG2, ARG3)
;    75          0605  1 !
;    76          0606  1 ! INPUT PARAMETERS:
;    77          0607  1 !       ARG1: address of buffer containing block
;    78          0608  1 !       ARG2: LBN of block
;    79          0609  1 !       ARG3: string descriptor of user specified volume label
;    80          0610  1 !
;    81          0611  1 ! IMPLICIT INPUTS:
;    82          0612  1 !       NONE
;    83          0613  1 !
;    84          0614  1 ! OUTPUT PARAMETERS:
;    85          0615  1 !       NONE
;    86          0616  1 !
;    87          0617  1 ! IMPLICIT OUTPUTS:
;    88          0618  1 !       MOUNT_OPTIONS: structure level 2 bit set if so
;    89          0619  1 !
;    90          0620  1 ! ROUTINE VALUE:
;    91          0621  1 !       1 if valid and correct
;    92          0622  1 !       0 if not
;    93          0623  1 !       SS$_INCVOLLABEL if valid but volume label is wrong
;    94          0624  1 !
;    95          0625  1 ! SIDE EFFECTS:
;    96          0626  1 !       NONE
;    97          0627  1 !
;    98          0628  1 !--
;    99          0629  1
;   100          0630  2 BEGIN
;   101          0631  2
;   102          0632  2 MAP
;   103          0633  2         HOME_BLOCK      : REF BBLOCK,   ! home block buffer
;   104          0634  2         VOLUME_LABEL    : REF VECTOR;   ! volume label descriptor
;   105          0635  2
;   106          0636  2 EXTERNAL
;   107          0637  2         MOUNT_OPTIONS   : BITVECTOR;    ! command options
;   108          0638  2
;   109          0639  2 EXTERNAL ROUTINE
;   110          0640  2         CHECKSUM2;                      ! compute home block checksums
;   111          0641  2
;   112          0642  2
;   113          0643  2 ! Check the required non-zero fields and compute the checksums.
;   114          0644  2 !
;   115          0645  2
;   116          0646  3 IF NOT (
;   117          0647  3         .HOME_BLOCK[HM2$L_HOMELBN] EQL .LBN
;   118          0648  3     AND .HOME_BLOCK[HM2$L_ALTIDXLBN] NEQ 0
;   119          0649  3     AND .HOME_BLOCK[HM2$W_CLUSTER] NEQ 0
```

```
;  120          0650  3      AND .HOME_BLOCK[HM2$W_HOMEVBN] NEQ 0
;  121          0651  3      AND .HOME_BLOCK[HM2$W_ALHOMEVBN] NEQ 0
;  122          0652  3      AND .HOME_BLOCK[HM2$W_ALTIDXVBN] NEQ 0
;  123          0653  3      AND .HOME_BLOCK[HM2$W_IBMAPVBN] NEQ 0
;  124          0654  3      AND .HOME_BLOCK[HM2$L_IBMAPLBN] NEQ 0
;  125          0655  3      AND .HOME_BLOCK[HM2$L_MAXFILES] NEQ 0
;  126          0656  3      AND .HOME_BLOCK[HM2$W_IBMAPSIZE] NEQ 0
;  127          0657  3      AND .HOME_BLOCK[HM2$W_RESFILES] NEQ 0
;  128          0658  3      AND CHECKSUM2 (.HOME_BLOCK, $BYTEOFFSET (HM2$W_CHECKSUM1))
;  129          0659  3      AND CHECKSUM2 (.HOME_BLOCK, $BYTEOFFSET (HM2$W_CHECKSUM2))
;  130          0660  3          )
;  131          0661  2 THEN RETURN 0;
;  132          0662  2
;  133          0663  2 MOUNT_OPTIONS[OPT_IS_FILES11B] = 1;      ! set structure level 2 flag
;  134          0664  2
;  135          0665  2 IF CH$NEQ (.VOLUME_LABEL[0], .VOLUME_LABEL[1],
;  136          0666  2            HM2$S_VOLNAME, HOME_BLOCK[HM2$T_VOLNAME], ' ')
;  137          0667  2 THEN RETURN (SS$_INCVOLLABEL);
;  138          0668  2
;  139          0669  2 RETURN 1;
;  140          0670  2
;  141          0671  1 END;                                    ! end of routine CHECK_HOMEBLK2

                                                        .TITLE  CHKHM2
                                                        .IDENT  \V04-000\

                                                        .EXTRN  MOUNT_OPTIONS, CHECKSUM2

                                                        .PSECT  $CODE$,NOWRT,2

                                    000C 00000          .ENTRY  CHECK_HOMEBLK2, Save R2,R3              ; 0593
                                52  04 AC  D0 00002    MOVL    HOME_BLOCK, R2                          ; 0647
                              08 AC     62  D1 00006    CMPL    (R2), LBN                               ;
                                        6B  12 0000A    BNEQ    2$
                                    08  A2  D5 0000C    TSTL    8(R2)                                   ; 0648
                                        66  13 0000F    BEQL    2$
                                    0E  A2  B5 00011    TSTW    14(R2)                                  ; 0649
                                        61  13 00014    BEQL    2$
                                    10  A2  B5 00016    TSTW    16(R2)                                  ; 0650
                                        5C  13 00019    BEQL    2$
                                    12  A2  B5 0001B    TSTW    18(R2)                                  ; 0651
                                        57  13 0001E    BEQL    2$
                                    14  A2  B5 00020    TSTW    20(R2)                                  ; 0652
                                        52  13 00023    BEQL    2$
                                    16  A2  B5 00025    TSTW    22(R2)                                  ; 0653
                                        4D  13 00028    BEQL    2$
                                    18  A2  D5 0002A    TSTL    24(R2)                                  ; 0654
                                        48  13 0002D    BEQL    2$
                                    1C  A2  D5 0002F    TSTL    28(R2)                                  ; 0655
                                        43  13 00032    BEQL    2$
                                    20  A2  B5 00034    TSTW    32(R2)                                  ; 0656
                                        3E  13 00037    BEQL    2$
                                    22  A2  B5 00039    TSTW    34(R2)                                  ; 0657
                                        39  13 0003C    BEQL    2$
                                        3A  DD 0003E    PUSHL   #58                                     ; 0658
                                        52  DD 00040    PUSHL   R2
```

```
                        0000G  CF              02  FB 00042          CALLS   #2, CHECKSUM2                                    ;
                               2D               50  E9 00047          BLBC    R0, 2$                                          ;
                               7E       01FE    8F  3C 0004A          MOVZWL  #510, -(SP)                                     ; 0659
                                                52  DD 0004F          PUSHL   R2                                              ;
                        0000G  CF              02  FB 00051          CALLS   #2, CHECKSUM2                                   ;
                               1E               50  E9 00056          BLBC    R0, 2$                                          ;
                        0000G  CF              04  88 00059          BISB2   #4, MOUNT_OPTIONS+4                             ; 0663
                               50        0C     AC  D0 0005E          MOVL    VOLUME_LABEL, R0                                ; 0665
          0C          20        04       B0      60  2D 00062          CMPC5   (R0), @4(R0), #32, #12, 472(R2)                 ; 0666
                                                01D8  C2    00068                                                              ;
                                                06  13 0006B          BEQL    1$                                              ;
                                50       010C    8F  3C 0006D          MOVZWL  #268, R0                                        ; 0667
                                                    04 00072          RET                                                     ;
                                50               01  D0 00073 1$:      MOVL    #1, R0                                          ; 0669
                                                    04 00076          RET                                                     ;
                                                50  D4 00077 2$:      CLRL    R0                                              ; 0671
                                                    04 00079          RET                                                     ;

; Routine Size:  122 bytes,    Routine Base:  $CODE$ + 0000

;  142          0672  1
;  143          0673  1 END
;  144          0674  0 ELUDOM



;                                   PSECT SUMMARY

;       Name                    Bytes                           Attributes

;  $CODE$                         122  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        25         0      1000          00:02.0



;                                    COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:CHKHM2/OBJ=OBJ$:CHKHM2 MSRC$:CHKHM2/UPDATE=(ENH$:CHKHM2)

; Size:         122 code + 0 data bytes
```

```
; Run Time:         00:11.0
; Elapsed Time:     00:27.0
; Lines/CPU Min:     3666
; Lexemes/CPU-Min: 35037
; Memory Used:  99 pages
; Compilation Complete
```

CHKHM2
LIS

CHNUCB
LIS

GETUIC
LIS

ERASE
LIS

LEFTONE
LIS

MOUDK2
LIS

CHKHM1
LIS

CHKSM2
LIS

CLUSTRMNT
LIS

INIFC2
LIS

MOUDK1
LIS

MAKRVT
LIS

MAKLOG
LIS