



```

CCCCCCCC HH   HH KK   KK HH   HH MM   MM   11
CCCCCCCC HH   HH KK   KK HH   HH MM   MM   11
CC        HH   HH KK   KK HH   HH MMMM MMMM 1111
CC        HH   HH KK   KK HH   HH MMMM MMMM 1111
CC        HH   HH KK   KK HH   HH MM   MM   11
CC        HH   HH KK   KK HH   HH MM   MM   11
CC        HHHHHHHHHH KKKKKK HHHHHHHHHH MM   MM   11
CC        HHHHHHHHHH KKKKKK HHHHHHHHHH MM   MM   11
CC        HH   HH KK   KK HH   HH MM   MM   11
CC        HH   HH KK   KK HH   HH MM   MM   11
CC        HH   HH KK   KK HH   HH MM   MM   11
CC        HH   HH KK   KK HH   HH MM   MM   11
CCCCCCCC HH   HH KK   KK HH   HH MM   MM   111111 .....
CCCCCCCC HH   HH KK   KK HH   HH MM   MM   111111 .....

```

```

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 CHKHM1 (
2 0002 0
3 0003 0 LANGUAGE (BLISS32),
4 0004 0 IDENT = 'V04-000'
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1
9 0009 1 *****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: MOUNT Utility Structure Level 1
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 1 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 V03-002 HH0041 Hai Huang 24-Jul-1984
53 0053 1 Remove REQUIRE 'LIBD$:[VMSLIB.OBJ]MOUNTMSG.B32'.
54 0054 1
55 0055 1 V03-001 LMP0021 L. Mark Pilant, 5-Apr-1982 15:10
56 0056 1 Add support for ODS-1 structure version 2.
57 0057 1

```

CHKHM1  
V04-000

L 2  
16-Sep-1984 01:11:38  
14-Sep-1984 12:45:16

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[MOUNT.SRC]CHKHM1.B32;1 Page 2 (1)

```

: 58      0058 1 | V02-000 ACG0167      Andrew C. Goldstein, 18-Apr-1980 13:37
: 59      0059 1 | |
: 60      0060 1 | |**
: 61      0061 1 |
: 62      0062 1 |
: 63      0063 1 | LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 64      0064 1 | REQUIRE 'SRC$:MOUDEF.B32';

```

CH  
VO  
:  
:  
:  
:  
:

```

: 66      0596 1 GLOBAL ROUTINE CHECK_HOMEBLK1 (HOME_BLOCK, LBN, VOLUME_LABEL) =
: 67      0597 1
: 68      0598 1 !++
: 69      0599 1
: 70      0600 1 FUNCTIONAL DESCRIPTION:
: 71      0601 1
: 72      0602 1     This routine verifies whether the given block is a Files-11 Structure
: 73      0603 1     Level 1 home block.
: 74      0604 1
: 75      0605 1
: 76      0606 1 CALLING SEQUENCE:
: 77      0607 1     CHECK_HOMEBLK1 (ARG1, ARG2, ARG3)
: 78      0608 1
: 79      0609 1 INPUT PARAMETERS:
: 80      0610 1     ARG1: address of buffer containing block
: 81      0611 1     ARG2: LBN of block
: 82      0612 1     ARG3: string descriptor of user specified volume label
: 83      0613 1
: 84      0614 1 IMPLICIT INPUTS:
: 85      0615 1     NONE
: 86      0616 1
: 87      0617 1 OUTPUT PARAMETERS:
: 88      0618 1     NONE
: 89      0619 1
: 90      0620 1 IMPLICIT OUTPUTS:
: 91      0621 1     NONE
: 92      0622 1
: 93      0623 1 ROUTINE VALUE:
: 94      0624 1     1 if valid and correct
: 95      0625 1     0 if not
: 96      0626 1     $$$_INCVOLLABEL if valid but volume label is wrong
: 97      0627 1
: 98      0628 1 SIDE EFFECTS:
: 99      0629 1     NONE
: 100     0630 1
: 101     0631 1 --
: 102     0632 1
: 103     0633 2 BEGIN
: 104     0634 2
: 105     0635 2 MAP
: 106     0636 2     HOME_BLOCK      : REF BBLOCK,      ! home block buffer
: 107     0637 2     VOLUME_LABEL  : REF VECTOR;    ! volume label descriptor
: 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 2 IF NOT (
: 117     0647 2     .HOME_BLOCK[HM1$W_IBMAPSIZE] NEQ 0
: 118     0648 2     AND .HOME_BLOCK[HM1$L_IBMAPLBN] NEQ 0
: 119     0649 2     AND .HOME_BLOCK[HM1$W_MAXFILES] NEQ 0
: 120     0650 2     AND .HOME_BLOCK[HM1$W_CLUSTER] NEQ 0
: 121     0651 2     AND CHECKSUM2 (.HOME_BLOCK, $BYTEOFFSET (HM1$W_CHECKSUM1))
: 122     0652 2     AND CHECKSUM2 (.HOME_BLOCK, $BYTEOFFSET (HM1$W_CHECKSUM2))

```

```

: 123      0653      )
: 124      0654      ) THEN RETURN 0;
: 125      0655      )
: 126      0656      ) IF .HOME_BLOCK[HM1$W_STRUCLEV] NEQ HM1$C_LEVEL1
: 127      0657      ) AND .HOME_BLOCK[HM1$Q_STRUCLEV] NEQ HM1$C_LEVEL2
: 128      0658      ) THEN ERR_EXIT (SS$_F[ESTRUCT]);
: 129      0659      )
: 130      0660      ) IF CH$NEQ (.VOLUME_LABEL[0], .VOLUME_LABEL[1],
: 131      0661      ) HM1$$_VOLNAME, HOME_BLOCK[HM1$T_VOLNAME], 0)
: 132      0662      ) THEN RETURN (SS$_INCVOLLABEL);
: 133      0663      )
: 134      0664      ) RETURN 1;
: 135      0665      )
: 136      0666      ) 1 END;

```

! end of routine CHECK\_HOMEBLK1

```

.TITLE  CHKHM1
.IDENT  \V04-000\
.EXTRN  CHECKSUM2
.PSECT  $CODE$,NOWRT,2

.ENTRY  CHECK_HOMEBLK1, Save R2,R3
MOVLE  HOME_BLOCK, R2
TSTW   (R2)
BEQL   3$
TSTL   2(R2)
BEQL   3$
TSTW   6(R2)
BEQL   3$
TSTW   8(R2)
BEQL   3$
PUSHL  #58
PUSHL  R2
CALLS  #2, CHECKSUM2
BLBC   R0, 3$
MOVZWL #510, -(SP)
PUSHL  R2
CALLS  #2, CHECKSUM2
BLBC   R0, 3$
CMPW   12(R2), #257
BEQL   1$
CMPW   12(R2), #258
BEQL   1$
MOVZWL #2240, -(SP)
CALLS  #1, LIB$STOP
MOVL   VOLUME_LABEL, R0
CMPCS  (R0), #4(R0), #0, #12, 14(R2)
BEQL   2$
MOVZWL #268, R0
RET
MOVL   #1, R0
RET
CLRL   R0
RET

```

```

          000C 0000
52      04   AC  D0 00002
          62   B5 00006
          5E   13 00008
          02   A2  D5 0000A
          59   13 0000D
          06   A2  B5 0000F
          54   13 00012
          08   A2  B5 00014
          4F   13 00017
          3A   DD 00019
          52   DD 0001B
0000G   CF    02   FB 0001D
          43   50   E9 00022
          7E   01FE 8F   3C 00025
          52   DD 0002A
0000G   CF    02   FB 0002C
          34   50   E9 00031
0101    8F    0C   A2  B1 00034
          14   13 0003A
0102    8F    0C   A2  B1 0003C
          0C   13 00042
          7E   08C0 8F   3C 00044
00000000G 00    01   FB 00049
          50    0C   AC  D0 00050 1$:
OC      00    04   B0    60  2D 00054
          0E   A2    0005A
          06   13 0005C
          50   010C 8F   3C 0005E
          04  00063
          50    01   D0 00064 2$:
          04  00067
          50    D4 00068 3$:
          04  0006A

```

```

: 0596
: 0647
:
: 0648
:
: 0649
:
: 0650
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: 0651
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: 0652
:
: 0656
:
: 0657
:
: 0658
:
: 0660
: 0661
:
: 0662
:
: 0664
:
: 0666
:

```

: Routine Size: 107 bytes, Routine Base: \$CODE\$ + 0000

: 137 0667 1  
: 138 0668 1 END  
: 139 0669 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	107	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

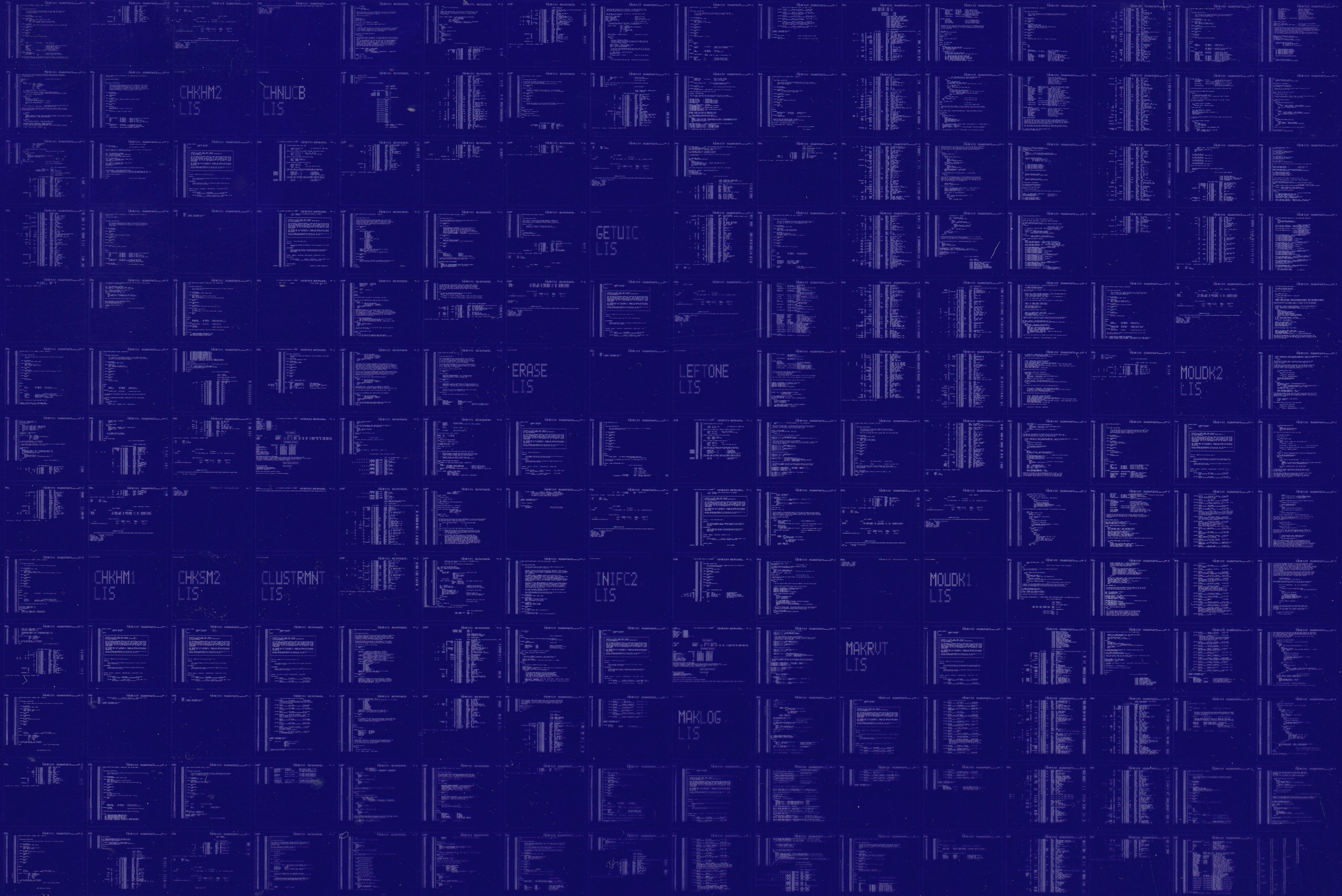
Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	22	0	1000	00:01.9

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:CHKHM1/OBJ=OBJ\$:CHKHM1 MSRC\$:CHKHM1/UPDATE=(ENH\$:CHKHM1)

: Size: 107 code + 0 data bytes  
: Run Time: 00:10.5  
: Elapsed Time: 00:24.3  
: Lines/CPU Min: 3819  
: Lexemes/CPU-Min: 35777  
: Memory Used: 91 pages  
: Compilation Complete



CHKM2  
LIS

CHNUCB  
LIS

GETUTC  
LIS

ERASE  
LIS

LEFTONE  
LIS

MOUDK2  
LIS

CHKM1  
LIS

CHSM2  
LIS

CLUSTRMNT  
LIS

INTFC2  
LIS

MOUDK1  
LIS

MAKVT  
LIS

MAKLOG  
LIS