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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
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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

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

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0001 0 MODULE CHKHM1 (
0002 0     LANGUAGE (BLISS32),
0003 0     IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1
0008 1 *****
0009 1 *
0010 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0023 1 *  CORPORATION.
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0025 1 *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0026 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1 ++
0032 1
0033 1 FACILITY: MOUNT Utility Structure Level 1
0034 1
0035 1 ABSTRACT:
0036 1
0037 1     This routine verifies whether a given block is Files-11 Structure
0038 1     Level 1 home block.
0039 1
0040 1 ENVIRONMENT:
0041 1
0042 1     STARLET operating system, including privileged system services
0043 1     and internal exec routines.
0044 1
0045 1 --
0046 1
0047 1
0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 21-Nov-1977 19:23
0049 1
0050 1 MODIFIED BY:
0051 1
0052 1     V03-002 HH0041 Hai Huang 24-Jul-1984
0053 1     Remove REQUIRE 'LIBD$: [VMSLIB.OBJ]MOUNTMSG.B32'.
0054 1
0055 1     V03-001 LMP0021 L. Mark Pilant, 5-Apr-1982 15:10
0056 1     Add support for ODS-1 structure version 2.
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 'SYSSLIBRARY:LIB.L32';
.. 64      0064 1 REQUIRE 'SRC$:MOUDEF.B32';
```

CH  
VO

```

: 66      0596 1 GLOBAL ROUTINE CHECK_HOME_BLK1 (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_HOME_BLK1 (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))

```

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: 123      0653      3      )
: 124      0654      2      THEN RETURN 0;
: 125      0655      2      )
: 126      0656      2      IF .HOME_BLOCK[HM1$W_STRUCLEV] NEQ HM1$C_LEVEL1
: 127      0657      2      AND .HOME_BLOCK[HM1$Q_STRUCLEV] NEQ HM1$C_LEVEL2
: 128      0658      2      THEN ERR_EXIT (SS$_FICESTRUCT);
: 129      0659      2      )
: 130      0660      2      IF CH$NEQ (.VOLUME_LABEL[0], .VOLUME_LABEL[1],
: 131      0661      2      HM1$$VOLNAME, HOME_BLOCK[HM1$T_VOLNAME], 0)
: 132      0662      2      THEN RETURN (SS$_INCVOLLABEL);
: 133      0663      2      )
: 134      0664      2      RETURN 1;
: 135      0665      2      )
: 136      0666      1      END;

```

! end of routine CHECK\_HOMEBLK1

```

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

```

				000C 0000	.ENTRY  CHECK_HOMEBLK1, Save R2,R3	
	52	04	AC	D0 00002	MOVL  HOME_BLOCK, R2	: 0596
			62	B5 00006	TSTW  (R2)	: 0647
			5E	13 00008	BEQL  3\$	
		02	A2	D5 0000A	TSTL  2(R2)	: 0648
			59	13 0000D	BEQL  3\$	
		06	A2	B5 0000F	TSTW  6(R2)	: 0649
			54	13 00012	BEQL  3\$	
		08	A2	B5 00014	TSTW  8(R2)	: 0650
			4F	13 00017	BEQL  3\$	
			3A	DD 00019	PUSHL #58	: 0651
			52	DD 0001B	PUSHL R2	
	0000G	CF	02	FB 0001D	CALLS #2, CHECKSUM2	
		43	50	E9 00022	BLBC  R0, 3\$	
		7E	01FE	8F 3C 00025	MOVZWL #510, -(SP)	: 0652
			52	DD 0002A	PUSHL R2	
	0000G	CF	02	FB 0002C	CALLS #2, CHECKSUM2	
		34	50	E9 00031	BLBC  R0, 3\$	
	0101	8F	0C	A2 B1 00034	CMPW  12(R2), #257	: 0656
			14	13 0003A	BEQL  1\$	
	0102	8F	0C	A2 B1 0003C	CMPW  12(R2), #258	: 0657
			0C	13 00042	BEQL  1\$	
		7E	08C0	8F 3C 00044	MOVZWL #2240, -(SP)	: 0658
	00000000G	00	01	FB 00049	CALLS #1, LIB\$STOP	
		50	0C	AC D0 00050	MOVL  VOLUME_LABEL, R0	: 0660
0C		00	04	80 60 2D 00054	CMPC  (R0), #4(R0), #0, #12, 14(R2)	: 0661
			0E	A2 0005A		
			06	13 0005C	BEQL  2\$	
		50	010C	8F 3C 0005E	MOVZWL #268, R0	: 0662
				04 00063	RET	
		50		01 D0 00064	MOVL  #1, R0	: 0664
				04 00067	RET	
			50	D4 00068	CLRL  R0	: 0666
				04 0006A	RET	

: 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:[SYS]IB]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



