



```

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   22   22
CC        HH   HH   KK   KK   HH   HH   MM   MM   22   22
CC        HHHHHHHHHH KKKKKK HHHHHHHHHH MM   MM   22
CC        HHHHHHHHHH KKKKKK 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
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      SS
LL        II      SSSSSS
LL        II      SSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

```

1 0001 0 MODULE CHKHM2 (
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 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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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 **

```

CHKHM2  
V04-000

E 3  
16-Sep-1984 01:12:11  
14-Sep-1984 12:45:16

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[MOUNT.SRC]CHKHM2.B32;1 Page 2 (1)

```
: 58      0058 1
: 59      0059 1
: 60      0060 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 61      0061 1 REQUIRE 'SRCS: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     $$$_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 2 IF NOT (
: 117 0647 2     .HOME_BLOCK[HM2$SL_HOMELBN] EQL .LBN
: 118 0648 2     AND .HOME_BLOCK[HM2$SL_ALTIDXLBN] NEQ 0
: 119 0649 2     AND .HOME_BLOCK[HM2$W_CLUSTER] NEQ 0
```

```

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

```

! end of routine CHECK\_HOMEBLK2

```

.TITLE  CHKHM2
.IDENT  \V04-000\

.EXTRN  MOUNT_OPTIONS, CHECKSUM2

.PSECT  $CODE$,NOWRT,2

.ENTRY  CHECK_HOMEBLK2, Save R2,R3

```

			000C 00000					
		04	AC D0 00002	MOVL	HOME_BLOCK, R2			: 0593
08	52		62 D1 00006	CMPL	(R2), LBN			: 0647
	AC		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	#?, CHECKSUM2		
			2D		50	F9	00047	BLBC	R0, 2\$		
			7E	01FE	8F	3C	0004A	MOVZWL	#510, -(SP)		0659
		0000G	CF		52	DD	0004F	PUSHL	R2		
			1E		02	FB	00051	CALLS	#?, CHECKSUM2		
		0000G	CF		50	F9	00056	BLBC	R0, 2\$		
			50		04	88	00059	BISB2	#4, MOUNT OPTIONS+4		0663
OC			OC		AC	D0	0005E	MOVL	VOLUME LABEL, R0		0665
	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	MOVL	#1, R0		0669
						04	00076	RET			
					50	D4	00077	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

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing 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

```

CHKHM2  
V04-000

<sup>1 3</sup>  
16-Sep-1984 01:12:11

VAX-11 Bliss-32 V4.0-742

Page 6

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

CH  
VA  
MA

