


```

SSSSSSSS RRRRRRRR CCCCCCCC VV VV 000000 LL
SSSSSSSS RRRRRRRR CCCCCCCC VV VV 000000 LL
SS RR RR CL VV VV 00 00 LL
SS RR RR CC VV VV 00 00 LL
SS RR RR CC VV VV 00 00 LL
SSSSSS RRRRRRRR CC VV VV 00 00 LL
SSSSSS RRRRRRRR CC VV VV 00 00 LL
SS RR RR CC VV VV 00 00 LL
SS RR RR CC VV VV 00 00 LL
SS RR RR CC VV VV 00 00 LL
SS RR RR CC VV VV 00 00 LL
SSSSSSSS RRR RR RR CCCCCCCC VV VV 000000 LLLLLLLLLL
SSSSSSSS RRR RR RR CCCCCCCC VV VV 000000 LLLLLLLLLL

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LL I I I I I I SSSSSSSS
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```

1 0001 0 MODULE SRCVOL (
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 *
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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 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This routine searches the device database for a particular volume.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 STARLET operating system, including privileged system services
42 0042 1 and internal exec routines.
43 0043 1
44 0044 1 --
45 0045 1
46 0046 1
47 0047 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 13-Oct-1977 20:09
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1 V03-008 HH0050 Hai Huang 17-Aug-1984
52 0052 1 Return success status if MOUNT/CLUSTER on a volume
53 0053 1 that is already mounted locally.
54 0054 1
55 0055 1 V03-007 HH0041 Hai Huang 24-Jul-1984
56 0056 1 Remove REQUIRE 'LIBD$: [VMSLIB.OBJ]MOUNTMSG.B32'.
57 0057 1

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: 58      0058 1 |
: 59      0059 1 |
: 60      0060 1 |
: 61      0061 1 |
: 62      0062 1 |
: 63      0063 1 |
: 64      0064 1 |
: 65      0065 1 |
: 66      0066 1 |
: 67      0067 1 |
: 68      0068 1 |
: 69      0069 1 |
: 70      0070 1 |
: 71      0071 1 |
: 72      0072 1 |
: 73      0073 1 |
: 74      0074 1 |
: 75      0075 1 |
: 76      0076 1 |
: 77      0077 1 |
: 78      0078 1 |
: 79      0079 1 |
: 80      0080 1 |
: 81      0081 1 |
: 82      0082 1 |
: 83      0083 1 |
: 84      0084 1 |
: 85      0085 1 |
: 86      0086 1 |
: 87      0087 1 |
: 88      0088 1 |
: 89      0089 1 |
: 90      0090 1 |
: 91      0091 1 |
: 92      0092 1 |
: 93      0093 1 |
: 94      0094 1 |
: 95      0095 1 |
: 96      0627 1 |
: 97      0628 1 |
: 98      0629 1 |
: 99      0630 1 |
: 100     0631 1 |

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V03-006 HH0036 Hai Huang 11-Jul-1984
Allow MOUNT/CLUSTER on a volume that is already mounted
on the local node.

V03-005 HH0024 Hai Huang 18-Jun-1984
Call IOC\$CVT DEVNAM to format the device name on a
successful sFared mount.

V03-004 HH0002 Hai Huang 01-Feb-1984
Add job-wide mount support, i.e. deallocate mount list
entries to paged-pool.

V03-003 CDS0001 Christian D. Saether 17-Jun-1983
Fix SEARCH_VOL so it knows how to run through
all system-blocks, and therefore find all ddb's.

V03-002 DMW4041 DMWalp 7-Jun-1983
Remove (S)LOG_ENTRY

V03-001 STJ50311 Steven T. Jeffreys, 11-Feb-1983
Make all uses of PHYS_NAME indexed by DEVICE_INDEX.

V02-004 STJ0195 Steven T. Jeffreys, 02-Feb-1982
Removed SYSEXV declaration.

V02-003 STJ0165 Steven T. Jeffreys, 04-Jan-1982
Remove obsolete calls to \$SETEXV.

V02-002 ACG0169 Andrew C. Goldstein, 18-Apr-1980 13:58
Bug check on internal errors

V02-001 ACG0167 Andrew C. Goldstein, 18-Apr-1980 13:39
Previous revision history moved to MOUNT.REV

! **

LIBRARY 'SYS\$LIBRARY:LIB.L32';
REQUIRE 'SRC\$:MOUDEF.B32';

FORWARD ROUTINE
SEARCH_VOL, : search for mounted volume
SEARCH_HANDLER : NOVALUE; : condition handler for above

```

0632 1 GLOBAL ROUTINE SEARCH_VOL (NAME) =
0633 1
0634 1 !++
0635 1
0636 1 FUNCTIONAL DESCRIPTION:
0637 1
0638 1     This routine searches the device database for a particular volume.
0639 1     Only file structured devices mounted /SYSTEM, /GROUP, or /SHARE
0640 1     are considered.
0641 1
0642 1
0643 1 CALLING SEQUENCE:
0644 1     SEARCH_VOL (ARG1)
0645 1
0646 1 INPUT PARAMETERS:
0647 1     ARG1: string descriptor of volume label
0648 1
0649 1 IMPLICIT INPUTS:
0650 1     MOUNT_OPTIONS: command option bits
0651 1
0652 1 OUTPUT PARAMETERS:
0653 1     NONE
0654 1
0655 1 IMPLICIT OUTPUTS:
0656 1     NONE
0657 1
0658 1 ROUTINE VALUE:
0659 1     UCB address of found volume or zero
0660 1
0661 1 SIDE EFFECTS:
0662 1     mount count of found volume is incremented if /SHARE mode mount
0663 1
0664 1 !--
0665 1
0666 2 BEGIN
0667 2
0668 2 MAP
0669 2     NAME           : REF VECTOR;      ! volume name string descriptor
0670 2
0671 2 LABEL
0672 2     SEARCH_LOOP;   ! outer device search loop
0673 2
0674 2 LOCAL
0675 2     STATUS,        ! random status value
0676 2     SB              : REF BBLOCK,     ! pointer to current SB
0677 2     DDB            : REF BBLOCK,     ! pointer to current DDB
0678 2     UCB            : REF BBLOCK,     ! pointer to current UCB
0679 2     VCB            : REF BBLOCK;     ! pointer to current VCB
0680 2
0681 2 EXTERNAL
0682 2     MOUNT_OPTIONS : BITVECTOR,      ! MOUNT command options
0683 2     DEVICE_INDEX  : LONG,           ! index into PHYS_NAME vector
0684 2     PHYS_NAME     : VECTOR,         ! physical device name descriptor
0685 2     NAME_BUFFER   : VECTOR [BYTE], ! physical device name buffer
0686 2     MTL_ENTRY     : REF BBLOCK,     ! address of mount list entry
0687 2     SMTL_ENTRY    : REF BBLOCK,     ! address of volume set mount list entry
0688 2     SCSSGQ_CONFIG : ADDRESSING_MODE (ABSOLUTE),

```

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: 159 0689 2
: 160 0690 2
: 161 0691 2
: 162 0692 2
: 163 0693 2 LINKAGE
: 164 0694 2     IOC_CVT_DEVNAM = JSB (REGISTER = 0, REGISTER = 1, REGISTER = 4,
: 165 0695 2     REGISTER = 5, REGISTER = 1) :
: 166 0696 2     PRESERVE (2,3,4,5,6,7);
: 167 0697 2
: 168 0698 2 EXTERNAL ROUTINE
: 169 0699 2     LOCK_IODB,           ! lock I/O database mutex
: 170 0700 2     UNLOCK_IODB,       ! unlock I/O database mutex
: 171 0701 2     DEALLOCATE_MEM,    ! deallocate dynamic memory
: 172 0702 2     ALLOC_LOGNAME,     ! create logical name and MTL entry
: 173 0703 2     ENTER_LOGNAME,    ! hook up logical name and MTL entry
: 174 0704 2     IOC$CVT_DEVN+M : IOC_CVT_DEVNAM ADDRESSING_MODE (GENERAL),
: 175 0705 2     MOUNT_CLUSTER;       ! get fully expanded device name
: 176 0706 2     ! mount volume cluster-wide
: 177 0707 2
: 178 0708 2 ! Enable our condition handler.
: 179 0709 2 ! Needless to say, the search must be done with the I/O database locked to
: 180 0710 2 ! prevent list perturbations. We run down the DDB list, following the UCB
: 181 0711 2 ! list off each one, looking for file structured devices that are mounted
: 182 0712 2 ! but not allocated.
: 183 0713 2
: 184 0714 2
: 185 0715 2 ENABLE SEARCH_HANDLER;
: 186 0716 2
: 187 0717 2 ! For a shared mount, preallocate logical name and mounted volume list entry
: 188 0718 2 ! for the worst case (RVN 1), since we cannot tolerate failures after bumping
: 189 0719 2 ! the mount count in a found VCB. If not needed, we discard them later. System
: 190 0720 2 ! and Group mounts don't need this, since we will fail here one way or the other.
: 191 0721 2
: 192 0722 2
: 193 0723 2 IF .MOUNT_OPTIONS[OPT_SHARE]
: 194 0724 2 THEN
: 195 0725 2     BEGIN
: 196 0726 2     ALLOC_LOGNAME (0);
: 197 0727 2     SMTL_ENTRY = .MTL_ENTRY;
: 198 0728 2     MTL_ENTRY = 0;
: 199 0729 2     ALLOC_LOGNAME (1);
: 200 0730 2     END;
: 201 0731 2
: 202 0732 2 LOCK_IODB ();
: 203 0733 2
: 204 0734 2 SB = .SCS$GQ_CONFIG;
: 205 0735 2
: 206 0736 2 SEARCH_LOOP:
: 207 0737 2 BEGIN
: 208 0738 2 UNTIL .SB EQL SCS$GQ_CONFIG
: 209 0739 2 DO
: 210 0740 2 BEGIN
: 211 0741 2
: 212 0742 2 DDB = .SB [SB$L_DDB];
: 213 0743 2
: 214 0744 2 WHILE .DDB NEQ 0
: 215 0745 2 DO

```

```

: 216      0746      5      BEGIN
: 217      0747      5      IF .DDB[DDBSB_TYPE] NEQ DYN$C_DDB
: 218      0748      5      THEN BUG_CHECK (NOTDDBDDB, FATAL, 'Corrupted DDB List');
: 219      0749      5      UCB = .DDB[DDBSL_UCB];
: 220      0750      5
: 221      0751      5      UNTIL .UCB EQL 0 DO
: 222      0752      6          BEGIN
: 223      0753      6              IF .UCB[UCBSB_TYPE] NEQ DYN$C_UCB
: 224      0754      6              THEN BUG_CHECK (NOTUCBUCEB, FATAL, 'Corrupted UCB List');
: 225      0755      6
: 226      0756      6              IF .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_FOD]
: 227      0757      6              AND .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_MNT]
: 228      0758      6              AND NOT .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_ALL]
: 229      0759      6              AND NOT .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_DMT]
: 230      0760      6              THEN
: 231      0761      7                  BEGIN
: 232      0762      7                      VCB = .UCB[UCBSL_VCB];
: 233      0763      7                      IF .VCB[VCBSB_TYPE] NEQ DYN$C_VCB
: 234      0764      7                      THEN BUG_CHECK (NOTVCBUCEB, FATAL, 'Not VCB pointer in UCB');
: 235      0765      7                      IF CH$EQ[ (.NAME[0], .NAME[1],
: 236      0766      7                          VCB$S_VOLNAME, VCB[VCBSL_VOLNAME], ' ')
: 237      0767      7                      THEN LEAVE SEARCH_LOOP;
: 238      0768      6                  END;
: 239      0769      6              UCB = .UCB[UCBSL_LINK];
: 240      0770      5              END;
: 241      0771      5      DDB = .DDB[DDBSL_LINK];
: 242      0772      4      END;
: 243      0773      4
: 244      0774      4      SB = .SB [SB$S_FLINK];
: 245      0775      3      END;
: 246      0776      2      END;
: 247      0777      2
: 248      0778      2      ! If we find a suitable volume that matches the name, the search is over.
: 249      0779      2      ! If the mount is /SHARE, we increment the volume mount count here and now
: 250      0780      2      ! to avoid race conditions. Finding a volume on a /SYSTEM or /GROUP mount
: 251      0781      2      ! is an error.
: 252      0782      2      !
: 253      0783      2
: 254      0784      2      STATUS = 0;
: 255      0785      2      IF .UCB NEQ 0
: 256      0786      2      THEN
: 257      0787      3          BEGIN
: 258      0788      3              IF .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_FOR] NEQ .MOUNT_OPTIONS[OPT_FOREIGN]
: 259      0789      3              THEN STATUS = MOUN$_INCOMPAT
: 260      0790      3
: 261      0791      3          ELSE
: 262      0792      4              BEGIN
: 263      0793      4
: 264      0794      4                  IF NOT .MOUNT_OPTIONS[OPT_SHARE]
: 265      0795      4                  THEN
: 266      0796      4                      STATUS = MOUN$_VOLALRMNT
: 267      0797      4                  ELSE
: 268      0798      5                      BEGIN
: 269      0799      5                          STATUS = 1;
: 270      0800      5                          VCB[VCBSL_MCOUNT] = .VCB[VCBSL_MCOUNT] + 1;
: 271      0801      4                      END;
: 272      0802      4

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: 273 0803 4      For a successful shared mount or volume already mounted, format the
: 274 0804 4      expanded device name and set up the device name descriptor.
: 275 0805 4
: 276 0806 4      :OC$CVT_DEVNAM (NAMEBUF_LEN,          ! Output buffer length
: 277 0807 4      NAME_BUFFER +
: 278 0808 4      (.DEVICE_INDEX*NAMEBUF_LEN),      ! Output buffer address
: 279 0809 4      -1,                          ! Format device name in display form
: 280 0810 4      .UCB;                          ! Address of the target UCB
: 281 0811 4      PHYS_NAME [.DEVICE_INDEX*2]);      ! Returned length
: 282 0812 4      PHYS_NAME[(.DEVICE_INDEX*2)+1] = NAME_BUFFER +
: 283 0813 4      (.DEVICE_INDEX*NAMEBUF_LEN);      ! Set up device name descriptor
: 284 0814 3      END;
: 285 0815 2      END;
: 286 0816 2
: 287 0817 2      UNLOCK_IODB ();
: 288 0818 2
: 289 0819 2
: 290 0820 2      ! If the /CLUSTER option is specified, send the request cluster-wide even
: 291 0821 2      ! if the volume is already mounted on the local node. Return with success
: 292 0822 2      ! in this case.
: 293 0823 2
: 294 0824 3      IF ( .STATUS EQL MOUNTS VOLALRMNT)
: 295 0825 3      AND ( .MOUNT_OPTIONS [OPT_CLUSTER])
: 296 0826 2      THEN
: 297 0827 3      BEGIN
: 298 0828 3      MOUNT_CLUSTER (.MOUNT_ITMLST);
: 299 0829 3      RETURN 1;
: 300 0830 2      END;
: 301 0831 2
: 302 0832 2      IF NOT .STATUS THEN ERR_EXIT (.STATUS);
: 303 0833 2
: 304 0834 2
: 305 0835 2      ! We now have a successful shared mount. Fill in the logical name and MTL
: 306 0836 2      ! entries.
: 307 0837 2
: 308 0838 2      ! if what we found is RVN 1 of a volume set, keep the entries as is. Otherwise
: 309 0839 2      ! release one of each.
: 310 0840 2
: 311 0841 2
: 312 0842 2      IF .BBLOCK [UCB[UCB$L_DEVCHAR], DEV$V_SQD]
: 313 0843 2      OR .VCB[VCB$W_RVN] NEQ 1
: 314 0844 2      THEN
: 315 0845 3      BEGIN
: 316 0846 3      DEALLOCATE_MEM (.MTL_ENTRY, 1);
: 317 0847 3      MTL_ENTRY = .SMTL_ENTRY;
: 318 0848 3      SMTL_ENTRY = 0;
: 319 0849 3      END;
: 320 0850 2
: 321 0851 2      ENTER_LOGNAME (.UCB, .VCB);
: 322 0852 2
: 323 0853 2      RETURN 1;
: 324 0854 2
: 325 0855 1      END;

```

! end of routine SEARCH_VOL

.TITLE SRCVOL
.IDENT \V04-000\

Address	Offset	OpCode	OpCodeHex	OpCodeDec	Comment	Address
					.EXTRN MOUNT_OPTIONS, DEVICE_INDEX	
					.EXTRN PHYS_NAME, NAME_BUFFER	
					.EXTRN MTL_ENTRY, SMTL_ENTRY	
					.EXTRN SCSSGQ_CONFIG, MOUNT_ITMLST	
					.EXTRN LOCK_IODB, UNLOCK_IODB	
					.EXTRN DEALLOCATE_MEM, ALLOC_LOGNAME	
					.EXTRN ENTER_LOGNAME, IOC\$CVT_DEVNAM	
					.EXTRN MOUNT_CLUSTER, BUGS_NOTDDBDDB	
					.EXTRN BUGS_NOTUCBCB, BUGS_NOTVCBCB	
					.PSECT \$CODE\$,NOWRT,2	
					.ENTRY SEARCH_VOL, Save R2,R3,R4,R5,R6,R7,R8,R9,-	0632
					R10,R11	
					MOVAB SMTL_ENTRY, R11	
					MOVAB MOUNT_OPTIONS, R10	
					MOVAB @#SCSSGQ_CONFIG, R9	
					MOVAB MTL_ENTRY, R8	
					MOVAL 21\$, (FP)	0666
					BBC #6, MOUNT_OPTIONS, 1\$	0723
					CLRL -(SP)	0726
					CALLS #1, ALLOC_LOGNAME	
					MOVL MTL_ENTRY, SMTL_ENTRY	0727
					CLRL MTL_ENTRY	0728
					PUSHL #1	0729
					CALLS #1, ALLOC_LOGNAME	
					CALLS #0, LOCK_IODB	0732
					MOVL SCSSGQ_CONFIG, SB	0734
					CMPB SB, R9	0738
					BEQL 11\$	
					MOVL 84(SB), DDB	0742
					BEQL 10\$	0744
					CMPB 10(DDB), #6	0747
					BEQL 4\$	
					BUGW	0748
					.WORD <BUGS_NOTDDBDDB!4>	
					MOVL 4(DDB), UCB	0749
					BEQL 9\$	0751
					CMPB 10(UCB), #16	0753
					BEQL 6\$	
					BUGW	0754
					.WORD <BUGS_NOTUCBCB!4>	
					BBC #6, 57(UCB), 8\$	0756
					BBC #3, 58(UCB), 8\$	0757
					TSTB 58(UCB)	0758
					BLSS 8\$	
					BBS #5, 58(UCB), 8\$	0759
					MOVL 52(UCB), VCB	0762
					CMPB 10(VCB), #17	0763
					BEQL 7\$	
					BUGW	0764
					.WORD <BUGS_NOTVCBCB!4>	
					MOVL NAME, _R0	0765
					CMPCS (R0), @4(R0), #32, #12, 20(VCB)	0766
					BEQL 11\$	

Address	Offset	OpCode	OpCodeHex	OpCodeDec	Comment	Address
					OFFC 00000	
					5B 0000G CF 9E 00002	
					5A 0000G CF 9E 00007	
					59 00000000G 9F 9E 0000C	
					58 0000G CF 9E 00013	
13					6D 0137 CF DE 00018	
					6A 06 E1 0001D	
					7E D4 00021	
					01 FB 00023	
	0000G				68 D0 00028	
					68 D4 0002B	
					01 DD 0002D	
					01 FB 0002F	
	0000G				00 FB 00034 1\$:	
					57 69 D0 00039	
					59 57 D1 0003C 2\$:	
					60 13 0003F 3\$:	
					54 54 A7 D0 00041	
					55 13 00045	
					06 0A A4 91 00047	
					04 13 0004B	
					FEFF 0004D	
					0000* 0004F	
					55 04 A4 D0 00051 4\$:	
					40 13 00055 5\$:	
					10 0A A5 91 00057	
					04 13 0005B	
					FEFF 0005D	
					0000* 0005F	
					2B 39 A5 06 E1 00061 6\$:	
					26 3A A5 03 E1 00066	
					3A A5 95 0006B	
					21 19 0006E	
					1C 3A A5 05 E0 00070	
					56 34 A5 D0 00075	
					11 0A A6 91 00079	
					04 13 0007D	
					FEFF 0007F	
					0000* 00081	
					50 04 AC D0 00083 7\$:	
					80 60 2D 00087	
					14 A6 0008D	
					10 13 0008F	

			55	30	A5	D0	00091	8\$:	MOVL	48(UCB), UCB	:	0769
					BE	11	00095		BRB	5\$:	0751
			54		64	D0	00097	9\$:	MOVL	(DDB), DDB	:	0771
					A9	11	0009A		BRB	3\$:	0744
			57		67	D0	0009C	10\$:	MOVL	(SB), SB	:	0774
					9B	11	0009F		BRB	2\$:	0738
					52	D4	000A1	11\$:	CLRL	STATUS	:	0784
					55	D5	000A3		TSTL	UCB	:	0785
					5D	13	000A5		BEQL	15\$:	
50	01	AA	01		03	EF	000A7		EXTZV	#3, #1, MOUNT_OPTIONS+1, R0	:	0788
50	3B	A5	01		00	ED	000AD		CMPZV	#0, #1, 59(UCB), R0	:	
					09	13	000B3		BEQL	12\$:	
			52	007280AC	8F	D0	000B5		MOVL	#7504044, STATUS	:	0789
					46	11	000BC		BRB	15\$:	
			6A		06	E0	000BE	12\$:	BBS	#6, MOUNT_OPTIONS, 13\$:	0794
		09	52	007280B4	8F	D0	000C2		MOVL	#7504052, STATUS	:	0796
					06	11	000C9		BRB	14\$:	
			52		01	D0	000CB	13\$:	MOVL	#1, STATUS	:	0799
				4C	A6	B6	000CE		INCW	76(VCB)	:	0800
50	0000G	CF			05	78	000D1	14\$:	SHL	#5, DEVICE_INDEX, R0	:	0808
			51	0000GCF	40	9E	000D7		MOVAB	NAME_BUFFER[R0], R1	:	0807
			54		01	CE	000DD		MNEGL	#1, R4	:	0811
			50		20	D0	000E0		MOVL	#32, R0	:	
				00000000G	00	16	000E3		JSB	IOC\$CVT_DEVNAM	:	
50	0000G	CF			01	78	000E9		ASHL	#1, DEVICE_INDEX, R0	:	
					51	D0	000EF		MOVL	R1, PHYS_NAME[R0]	:	
51	0000G	CF			05	78	000F5		ASHL	#5, DEVICE_INDEX, R1	:	0813
					0000GCF	41	9E	000FB	MOVAB	NAME_BUFFER[R1], PHYS_NAME+4[R0]	:	0812
					00	FB	00104	15\$:	CALLS	#0, UNLOCK_IOCB	:	0817
			007280B4	8F	52	D1	00109		CMP	STATUS, #7504052	:	0824
					10	12	00110		BNEQ	16\$:	
0B	07	AA			06	E1	00112		BBC	#6, MOUNT_OPTIONS+7, 16\$:	0825
				0000G	CF	DD	00117		PUSHL	MOUNT_ITM\$T	:	0828
					01	FB	0011B		CALLS	#1, MOUNT_CLUSTER	:	
					2D	11	00120		BRB	20\$:	0829
			09		52	E8	00122	16\$:	BLBS	STATUS, 17\$:	0832
					52	DD	00125		PUSHL	STATUS	:	
				00000000G	00	FB	00127		CALLS	#1, LIB\$STOP	:	
06	38	A5			05	E0	0012E	17\$:	BBS	#5, 56(UCB), 18\$:	0842
				0E	A6	B1	00133		CMPW	14(VCB), #1	:	0843
					0E	13	00137		BEQL	19\$:	
					01	DD	00139	18\$:	PUSHL	#1	:	0846
					68	DD	0013B		PUSHL	MTL_ENTRY	:	
			0000G	CF	02	FB	0013D		CALLS	#2, DEALLOCATE_MEM	:	
				68	6B	D0	00142		MOVL	SMTL_ENTRY, MTC_ENTRY	:	0847
					6B	D4	00145		CLRL	SMTL_ENTRY	:	0848
				7E	55	7D	00147	19\$:	MOVQ	UCB, -(SP)	:	0851
			0000G	CF	02	FB	0014A		CALLS	#2, ENTER_LOGNAME	:	
				50	01	D0	0014F	20\$:	MOVL	#1, R0	:	0853
					04	00152			RET		:	0855
					0000	00153		21\$:	.WORD	Save nothing	:	0666
					7E	D4	00155		CLRL	-(SP)	:	
					5E	DD	00157		PUSHL	SP	:	
				04	AC	7D	00159		MOVQ	4(AP), -(SP)	:	
			0000V	CF	03	FB	0015D		CALLS	#3, SEARCH_HANDLER	:	
					04	00162			RET		:	

SRCVOL
V04-000

G 16
16-Sep-1984 01:33:17
14-Sep-1984 12:45:35

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; Routine Size: 355 bytes, Routine Base: \$CODE\$ + 0000

```

327 0856 1 ROUTINE SEARCH_HANDLER (SIGNAL, MECHANISM) : NOVALUE =
328 0857 1
329 0858 1 !++
330 0859 1
331 0860 1 FUNCTIONAL DESCRIPTION:
332 0861 1
333 0862 1 This routine is the condition handler for the volume search
334 0863 1 routine. It undoes any damage done so far and returns the error
335 0864 1 status to the user mode caller.
336 0865 1
337 0866 1
338 0867 1 CALLING SEQUENCE:
339 0868 1 KERNEL_HANDLER (ARG1, ARG2)
340 0869 1
341 0870 1 INPUT PARAMETERS:
342 0871 1 ARG1: address of signal vector
343 0872 1 ARG2: address of mechanism vector
344 0873 1
345 0874 1 IMPLICIT INPUTS:
346 0875 1 global pointers to blocks allocated
347 0876 1
348 0877 1 OUTPUT PARAMETERS:
349 0878 1 NONE
350 0879 1
351 0880 1 IMPLICIT OUTPUTS:
352 0881 1 NONE
353 0882 1
354 0883 1 ROUTINE VALUE:
355 0884 1 NONE
356 0885 1
357 0886 1 SIDE EFFECTS:
358 0887 1 stack unwound, allocations undone
359 0888 1
360 0889 1 !--
361 0890 1
362 0891 2 BEGIN
363 0892 2
364 0893 2 MAP
365 0894 2 SIGNAL : REF BBLOCK, ! signal vector
366 0895 2 MECHANISM : REF BBLOCK; ! mechanism vector
367 0896 2
368 0897 2 EXTERNAL
369 0898 2 MOUNT_OPTIONS : BITVECTOR, ! command parser options
370 0899 2 MTL_ENTRY : REF BBLOCK, ! address of mount list entry
371 0900 2 SMT_ENTRY : REF BBLOCK; ! address of volume set mount list entry
372 0901 2
373 0902 2 EXTERNAL ROUTINE
374 0903 2 UNLOCK_IODB, ! unlock I/O database mutex
375 0904 2 DEALLOCATE_MEM; ! deallocate system dynamic memory
376 0905 2
377 0906 2
378 0907 2 IF .SIGNAL[CHFSL_SIG_NAME] NEQ SSS_UNWIND
379 0908 2 THEN
380 0909 2 BEGIN
381 0910 2
382 0911 2 IF .SIGNAL[CHFSL_SIG_ARGS] NEQ 3
383 0912 2 THEN BUG_CHECK (ONX SIGNAL, FATAL, 'Unexpected signal in MOUNT');

```

```

: 384 0913
: 385 0914
: 386 0915 : Deallocate whatever control blocks exist to wherever they came from.
: 387 0916
: 388 0917
: 389 0918   IF .MTL_ENTRY NEQ 0
: 390 0919   THEN DEALLOCATE_MEM (.MTL_ENTRY, 1);
: 391 0920
: 392 0921   IF .SMTL_ENTRY NEQ 0
: 393 0922   THEN DEALLOCATE_MEM (.SMTL_ENTRY, 1);
: 394 0923
: 395 0924   MTL_ENTRY = SMTL_ENTRY = 0;
: 396 0925
: 397 0926 : Return the condition code in R0.
: 398 0927
: 399 0928
: 400 0929   MECHANISM[CHFSL_MCH_SAVRO] = .SIGNAL[CHFSL_SIG_NAME];
: 401 0930   SUNWIND ();
: 402 0931
: 403 0932   END;
: 404 0933 1 END;

```

! end of routine KERNEL_HANDLER

.EXTRN BUG\$_UNXSIGNAL, SYSSUNWIND

				0000 0000 SEARCH_HANDLER:		
				.WORD	Save nothing	: 0856
00000920	50	04	AC D0 00002	MOVL	SIGNAL, R0	: 0907
	8F	04	A0 D1 00006	CML	4(R0), #2336	
			43 13 0000E	BEQL	4\$	
	03		60 D1 00010	CML	(R0), #3	: 0911
			04 13 00013	BEQL	1\$	
			FEFF 00015	BUGW		: 0912
			0000* 00017	.WORD	<BUG\$ UNXSIGNAL!4>	
	50	0000G	CF D0 00019 1\$:	MOVL	MTL_ENTRY, R0	: 0918
			09 13 0001E	BEQL	2\$	
			01 DD 00020	PUSHL	#1	: 0919
			50 DD 00022	PUSHL	R0	
0000G	CF		02 FB 00024	CALLS	#2, DEALLOCATE_MEM	
	50	0000G	CF D0 00029 2\$:	MOVL	SMTL_ENTRY, R0	: 0921
			09 13 0002E	BEQL	3\$	
			01 DD 00030	PUSHL	#1	: 0922
			50 DD 00032	PUSHL	R0	
0000G	CF		02 FB 00034	CALLS	#2, DEALLOCATE_MEM	
		0000G	CF D4 00039 3\$:	CLRL	SMTL_ENTRY	: 0924
		0000G	CF D4 0003D	CLRL	MTL_ENTRY	
	50	04	AC 7D 00041	MOVQ	SIGNAL, R0	: 0929
	0C	A1	04 A0 D0 00045	MOVL	4(R0), 12(R1)	
			7E 7C 0004A	CLRQ	-(SP)	: 0930
00000000G	00		02 FB 0004C	CALLS	#2, SYSSUNWIND	
			04 00053 4\$:	RET		: 0933

: Routine Size: 84 bytes, Routine Base: \$CODE\$ + 0163

: 405 0934 1

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V04-000

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: 406 0935 1 END
: 407 0936 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

:
: Name Bytes Attributes
: \$CODE\$ 439 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

:
: File Total Symbols Loaded Percent Pages Mapped Processing Time
: _\$255\$DUA28:[SYSLIB]LIB.L32;1 18619 39 0 1000 00:01.9

COMMAND QUALIFIERS

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

: Size: 439 code + 0 data bytes
: Run Time: 00:16.4
: Elapsed Time: 00:43.9
: Lines/CPU Min: 3422
: Lexemes/CPU-Min: 29093
: Memory Used: 157 pages
: Compilation Complete

