


```

1 0001 0 MODULE MAKRVT (
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
11 0011 1 *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
12 0012 1 *  ALL RIGHTS RESERVED.
13 0013 1 *
14 0014 1 *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
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 module creates the relative volume table for a disk volume set.
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: 23-Oct-1978 11:12
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1     V03-003 HH0041     Hai Huang     24-Jul-1984
52 0052 1     Remove REQUIRE 'LIBD$: [VMSLIB.OBJ]MOUNTMSG.B32'.
53 0053 1
54 0054 1     V03-002 CDS0002     Christian D. Saether     22-Aug-1983
55 0055 1     Teach I/O database search about system blocks.
56 0056 1
57 0057 1     V03-001 CDS0001     Christian D. Saether     2-Aug-1983

```

```
.. 58      0058 1  | Remove reference to obsolete RVX structure.
.. 59      0059 1  |
.. 60      0060 1  | V02-003 ACG0229      Andrew C. Goldstein,    4-Jan-1982  15:04
.. 61      0061 1  | Add volume set name to RVT
.. 62      0062 1  |
.. 63      0063 1  | V02-002 ACG0178      Andrew C. Goldstein,    9-Jun-1980  13:35
.. 64      0064 1  | Skip magtapes and foreign volumes in mounted volume set search
.. 65      0065 1  |
.. 66      0066 1  | V02-001 ACG0175      Andrew C. Goldstein,    23-May-1980 14:44
.. 67      0067 1  | Add I/O database lock cleanup, tie off RVT extension
.. 68      0068 1  |
.. 69      0069 1  | V02-000 ACG0167      Andrew C. Goldstein,    18-Apr-1980 13:38
.. 70      0070 1  | Previous revision history moved to MOUNT.REV
.. 71      0071 1  | **
.. 72      0072 1  |
.. 73      0073 1  |
.. 74      0074 1  | LIBRARY 'SYSS$LIBRARY:LIB.L32';
.. 75      0075 1  | REQUIRE 'SRCS:MOUDEF.B32';
```

```

77 0607 1 GLOBAL ROUTINE ENTER_RVT (NAME, NEW_UCB) =
78 0608 1
79 0609 1  +-
80 0610 1
81 0611 1  FUNCTIONAL DESCRIPTION:
82 0612 1
83 0613 1      This routine finds the relative volume table of the volume set of this
84 0614 1      volume, if it exists, and enters the volume in the table. If the RVT
85 0615 1      does not exist, it creates it. This routine also does the initial
86 0616 1      binding of a new volume into a set. This routine must be called in kernel
87 0617 1      mode.
88 0618 1
89 0619 1
90 0620 1  CALLING SEQUENCE:
91 0621 1      ENTER_RVT (ARG1, ARG2)
92 0622 1
93 0623 1  INPUT PARAMETERS:
94 0624 1      ARG1: address of descriptor of volume set name
95 0625 1      ARG2: UCB address of volume being mounted
96 0626 1
97 0627 1  IMPLICIT INPUTS:
98 0628 1      HOME_BLOCK: home block of volume being mounted
99 0629 1
100 0630 1  OUTPUT PARAMETERS:
101 0631 1      NONE
102 0632 1
103 0633 1  IMPLICIT OUTPUTS:
104 0634 1      REAL_RVT: address of RVT found or created
105 0635 1
106 0636 1  ROUTINE VALUE:
107 0637 1      address of RVT
108 0638 1
109 0639 1  SIDE EFFECTS:
110 0640 1      RVT may be created or modified
111 0641 1      HOME_BLOCK altered if /BIND performed
112 0642 1
113 0643 1  --
114 0644 1
115 0645 2 BEGIN
116 0646 2
117 0647 2 MAP
118 0648 2     NAME           : REF VECTOR;      ! volume name string descriptor
119 0649 2
120 0650 2 LABEL
121 0651 2     SEARCH_LOOP;      ! outer device search loop
122 0652 2
123 0653 2 LOCAL
124 0654 2     ENTRY_COUNT,      ! number of entries needed in RVT
125 0655 2     SIZE,              ! size of new RVT
126 0656 2     DDB                : REF BBLOCK,      ! pointer to current DDB
127 0657 2     SB                : REF BBLOCK,      ! system block pointer
128 0658 2     UCB                : REF BBLOCK,      ! pointer to current UCB
129 0659 2     VCB                : REF BBLOCK,      ! pointer to current VCB
130 0660 2     RVT                : REF BBLOCK,      ! pointer to current RVT
131 0661 2     NEW_RVT           : REF BBLOCK,      ! pointer to newly created RVT
132 0662 2     FCB                : REF BBLOCK,      ! pointer to current FCB
133 0663 2     WINDOW           : REF BBLOCK;      ! pointer to current window
```

```

134 0664 2
135 0665 2 EXTERNAL
136 0666 2 MOUNT_OPTIONS : BITVECTOR, ! MOUNT command options
137 0667 2 CLEANUP_FLAGS : BITVECTOR, ! cleanup action flags
138 0668 2 REAL_VCB : REF BBLOCK, ! address of VCB allocated
139 0669 2 REAL_RVT : REF BBLOCK, ! address of newly allocated RVT
140 0670 2 HOME_BLOCK : BBLOCK, ! volume home block buffer
141 0671 2 SCH$GL_CURPCB : REF BBLOCK ADDRESSING_MODE (ABSOLUTE), ! address of process PCB
142 0672 2
143 0673 2 SC$SGQ_CONFIG : ADDRESSING_MODE (ABSOLUTE); ! I/O database listhead
144 0674 2
145 0675 2
146 0676 2 EXTERNAL ROUTINE
147 0677 2 LOCK_IODB, ! lock I/O database mutex
148 0678 2 UNLOCK_IODB, ! unlock I/O database mutex
149 0679 2 ALLOCATE_MEM, ! allocate dynamic memory
150 0680 2 DEALLOCATE_MEM; ! deallocate dynamic memory
151 0681 2
152 0682 2
153 0683 2 ! Needless to say, the search must be done with the I/O database locked to
154 0684 2 ! prevent list perturbations. We run down the DDB list, following the UCB
155 0685 2 ! list off each one, looking for file structured devices that are mounted
156 0686 2 ! but not allocated.
157 0687 2
158 0688 2
159 0689 2 LOCK_IODB ();
160 0690 2 CLEANUP_FLAGS[CLF_UNLOCKDB] = 1;
161 0691 2
162 0692 2 SB = .SC$SGQ_CONFIG;
163 0693 2
164 0694 2 SEARCH_LOOP:
165 0695 2 BEGIN
166 0696 2
167 0697 2 UNTIL .SB EQLA SC$SGQ_CONFIG
168 0698 2 DO
169 0699 2 BEGIN
170 0700 2
171 0701 2 DDB = .SB [SB$DDB];
172 0702 2
173 0703 2 WHILE .DDB NEQ 0
174 0704 2 DO
175 0705 2 BEGIN
176 0706 2 IF .DDB[DDB$B_TYPE] NEQ DYN$C_DDB
177 0707 2 THEN BUG_CHECK (NOTDDBDDB, FATAL, 'Corrupted DDB List');
178 0708 2 UCB = .DDB[DDB$B_UCB];
179 0709 2
180 0710 2 UNTIL .UCB EQL 0 DO
181 0711 2 BEGIN
182 0712 2 IF .UCB[UCB$B_TYPE] NEQ DYN$C_UCB
183 0713 2 THEN BUG_CHECK (NOTUCBUCB, FATAL, 'Corrupted UCB List');
184 0714 2
185 0715 2 IF .BBLOCK[UCB[UCB$B_DEVCHAR], DEV$V_FOD]
186 0716 2 AND .BBLOCK[UCB[UCB$B_DEVCHAR], DEV$V_MNT]
187 0717 2 AND NOT .BBLOCK[UCB[UCB$B_DEVCHAR], DEV$V_FOR]
188 0718 2 AND NOT .BBLOCK[UCB[UCB$B_DEVCHAR], DEV$V_SQD]
189 0719 2 AND (IF .MOUNT_OPTIONS[OPT_NOSHARE]
190 0720 2 THEN (.BBLOCK[UCB[UCB$B_DEVCHAR], DEV$V_ALL]

```

```

191 0721 8          AND .UCB[UCBSL_PID] EQL .SCH$GL_CURPCB[PCBSL_PID])
192 0722 7          ELSE NOT .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_ALL]
193 0723 7        )
194 0724 6      THEN
195 0725 7        BEGIN
196 0726 7          VCB = .UCB[UCBSL_VCB];
197 0727 7          IF .VCB[VCBSB_TYPE] NEQ DYN$C_VCB
198 0728 7          THEN BUG_CHECK (NOTVCBUCB, FATAL, 'Not VCB pointer in UCB');
199 0729 7
200 0730 7          RVT = .VCB[VCBSL_RVT];
201 0731 7          IF .RVT NEQ 0
202 0732 7          THEN IF .RVT[RVT$B_TYPE] NEQ DYN$C_UCB
203 0733 7          THEN
204 0734 8            BEGIN
205 0735 8              IF .RVT[RVT$B_TYPE] NEQ DYN$C_RVT
206 0736 8              THEN BUG_CHECK (NOTRVTVCB, FATAL, 'Not RVT pointer in VCB');
207 0737 8              IF CH$EQ (.NAME[0], .NAME[1],
208 0738 8                  RVT$$STRUCNAME, RVT[RVT$T_STRUCNAME], ' ')
209 0739 8              THEN LEAVE SEARCH_LOOP;
210 0740 7            END;
211 0741 6          END;
212 0742 6          UCB = .UCB[UCBSL_LINK];
213 0743 5        END;          ! end of UCB scan loop
214 0744 5        DDB = .DDB[DDB$LINK];
215 0745 4        END;          ! end of DDB scan loop
216 0746 4
217 0747 4        SB = .SB [SB$LINK];
218 0748 3        END;          ! of SB loop
219 0749 3
220 0750 2        END;          ! end of block SEARCH_LOOP
221 0751 2
222 0752 2        ! Compute the size RVT needed. If none was found, create one. If the volume
223 0753 2        ! has a zero RVN, we are creating a new volume set (since we didn't find the
224 0754 2        ! RVT).
225 0755 2        !
226 0756 2
227 0757 2        ENTRY_COUNT = MAXU (.HOME_BLOCK[HM2$W_RVN], .HOME_BLOCK[HM2$W_SETCOUNT]);
228 0758 2
229 0759 2        IF .DDB EQL 0
230 0760 2        THEN
231 0761 3          BEGIN
232 0762 3            IF .ENTRY_COUNT EQL 0
233 0763 3            THEN
234 0764 4              BEGIN
235 0765 4                ENTRY_COUNT = 1;
236 0766 4                HOME_BLOCK[HM2$W_RVN] = 1;
237 0767 4                HOME_BLOCK[HM2$W_SETCOUNT] = 1;
238 0768 4                REAL_VCB[VCBSW_RVN] = 1;
239 0769 3              END;
240 0770 3
241 0771 3          RVT = ALLOCATE MEM (MAXU (.ENTRY_COUNT+4, RVT$C_MINSIZE) * 4 + RVT$C_LENGTH, 0);
242 0772 3          RVT[RVT$B_TYPE] = DYN$C_RVT;
243 0773 3          RVT[RVT$B_NVOLS] = .ENTRY_COUNT;
244 0774 3          CH$COPY (.NAME[0], .NAME[1], ' ', RVT$$STRUCNAME, RVT[RVT$T_STRUCNAME]);
245 0775 3          END
246 0776 3
247 0777 3        ! If we found an RVT, see if it is big enough. If not, allocate a new one.

```

```
248 0778 3 | copy the contents of the old to the new, fix up all pointers, and dispose
249 0779 3 | of the old one. If the volume was not in a set, do the initial bind,
250 0780 3 | assigning the next higher RVN. Note that RVN 1 must be mounted for later
251 0781 3 | use (also assuring that RVT$B_NVOLS contains the size of the set).
252 0782 3 |
253 0783 3 |
254 0784 2 ELSE
255 0785 3 BEGIN
256 0786 3 IF .ENTRY_COUNT EQL 0
257 0787 3 THEN
258 0788 4 BEGIN
259 0789 4 IF .RVT[RVT$L_UCBLST] EQL 0
260 0790 4 THEN
261 0791 5 BEGIN
262 0792 5 UNLOCK IODB ();
263 0793 5 ERR_EXIT (MOUN$_RVN1NOTMT);
264 0794 4 END;
265 0795 4 ENTRY_COUNT = .RVT[RVT$B_NVOLS] + 1;
266 0796 4 IF .ENTRY_COUNT GEQU 256
267 0797 4 THEN
268 0798 5 BEGIN
269 0799 5 UNLOCK IODB ();
270 0800 5 ERR_EXIT (MOUN$_SETLIMIT);
271 0801 4 END;
272 0802 4 HOME_BLOCK[HM2$W RVN] = .ENTRY_COUNT;
273 0803 4 REAL_VCB[VCB$W RVN] = .ENTRY_COUNT;
274 0804 3 END;
275 0805 3
276 0806 3 IF .RVT[RVT$W_SIZE] LSSU .ENTRY_COUNT * 4 + RVT$C_LENGTH
277 0807 3 THEN
278 0808 4 BEGIN
279 0809 4
280 0810 4 | ***** The RVT extend/copy code is tied off because the ACP uses RVT
281 0811 4 | addresses in its cache descriptors. This results in the operational
282 0812 4 | restriction of having to dismount and remount the volume set for each
283 0813 4 | fourth volume added after the minimum RVT size (17). Volume sets of
284 0814 4 | this size are at present of low probability.
285 0815 4 |
286 0816 4
287 0817 4 UNLOCK IODB ();
288 0818 4 ERR_EXIT (MOUN$_SETLIMIT);
289 0819 4
290 0820 4 | ***** End of tie-off.
291 0821 4
292 0822 4 NEW_RVT = ALLOCATE MEM (.ENTRY_COUNT * 4 + RVT$C_LENGTH, 0);
293 0823 4 SIZE = .NEW_RVT[RVT$W_SIZE];
294 0824 4 CH$COPY (.RVT[RVT$W_SIZE], .RVT, 0, .SIZE, .NEW_RVT);
295 0825 4 NEW_RVT[RVT$W_SIZE] = .SIZE;
296 0826 4
297 0827 4 INCR J FROM 1 TO .RVT[RVT$B_NVOLS]
298 0828 4 DO
299 0829 5 BEGIN
300 0830 5 UCB = .VECTOR [NEW_RVT[RVT$L_UCBLST], .J-1];
301 0831 5 IF .UCB NEQ 0
302 0832 5 THEN
303 0833 6 BEGIN
304 0834 6 VCB = .UCB[UCB$L_VCB];
```



```

: 305      0835      6      VCB[VCBSL_RVT] = .NEW_RVT;
: 306      0836      6
: 307      0837      6      FCB = .VCB[VCBSL_FCBFL];
: 308      0838      6      UNTIL .FCB EQL VCB[VCBSL_FCBFL]
: 309      0839      6      DO
: 310      0840      7          BEGIN
: 311      0841      7          WINDOW = .FCB[FCBSL_WFL];
: 312      0842      7          UNTIL .WINDOW EQL FCB[FCBSL_WFL]
: 313      0843      7          DO
: 314      0844      8              BEGIN
: 315      0845      8              WINDOW[WCBSL_RVT] = .NEW_RVT;
: 316      0846      8              WINDOW = .WINDOW[WCBSL_WFL];
: 317      0847      7              END;
: 318      0848      6          END;
: 319      0849      6          FCB = .FCB[FCBSL_FCBFL];
: 320      0850      5      END;
: 321      0851      4      END;
: 322      0852      4      DEALLOCATE_MEM (.RVT, 0);
: 323      0853      4      RVT = .NEW_RVT;
: 324      0854      3      END;
: 325      0855      2      END;
: 326      0856      2
: 327      0857      2      ! Check the UCB pointer we are about to store into. If it is non-zero,
: 328      0858      2      ! a volume with the same RVN is already mounted.
: 329      0859      2      ! Finally fix up the entry count in the RVT and store the new UCB pointer.
: 330      0860      2      !
: 331      0861      2
: 332      0862      2      IF .VECTOR [RVT[RVT$$_UCBLST], .HOME_BLOCK[HM2$$_RVN]-1] NEQ 0
: 333      0863      2      THEN
: 334      0864      3          BEGIN
: 335      0865      3          UNLOCK_IODB ();
: 336      0866      3          ERR_EXIT (MOUN$_DUPRVN);
: 337      0867      2          END;
: 338      0868      2
: 339      0869      2      RVT[RVT$$_REFC] = .RVT[RVT$$_REFC] + 1;
: 340      0870      2      RVT[RVT$$_NVOLS] = MAXU (.RVT[RVT$$_NVOLS], .ENTRY_COUNT);
: 341      0871      2      VECTOR [RVT[RVT$$_UCBLST], .HOME_BLOCK[HM2$$_RVN]-1] = .NEW_UCB;
: 342      0872      2
: 343      0873      2      UNLOCK_IODB ();
: 344      0874      2      CLEANUP_FLAGS[CLF_UNLOCKDB] = 0;
: 345      0875      2      REAL_RVT = .RVT;
: 346      0876      2      RETURN .RVT;
: 347      0877      2
: 348      0878      1      END;

```

! end of routine ENTER_RVT

```

.TITLE MAKRVT
.IDENT \V04-000\

.EXTRN MOUNT_OPTIONS, CLEANUP_FLAGS
.EXTRN REAL_VCB, REAL_RVT
.EXTRN HOME_BLOCK, SC$GL_CURPCB
.EXTRN SC$GO_CONFIG, LOCK_IODB
.EXTRN UNLOCK_IODB, ALLOCATE_MEM
.EXTRN DEALLOCATE_MEM, BUG$_NOTDDBDD
.EXTRN BUG$_NOTUCBCB, BUG$_NOTVCBCB
.EXTRN BUG$_NOTRVTVCB

```

				.PSECT	\$CODES,NOWRT,2	
				.ENTRY	ENTER_RVT, Save R2,R3,R4,R5,R6,R7,R8,R9,-R10,RT1	: 0607
				CALLS	#0, LOCK_IODB	: 0689
				BISB2	#8, CLEARUP_FLAGS+1	: 0690
0000G	CF	00	FB 00002	MOVL	@#SCS\$GQ_CONFIG, SB	: 0692
0000G	CF	08	88 00007	CMPL	SB, #SCS\$GQ_CONFIG	: 0697
00000000G	55	00000000G	9F D0 0000C	BNEQ	2\$	
	8F		55 D1 00013 1\$:	BRW	15\$	
			03 12 0001A	MOVL	84(SB), DDB	: 0701
			0099 31 0001C	BNEQ	4\$: 0703
	54	54	A5 D0 0001F 2\$:	BRW	14\$	
			03 12 00023 3\$:	CMPL	10(DDB), #6	: 0706
			008A 31 00025	BEQL	5\$	
	06	0A	A4 91 00028 4\$:	BUGW		: 0707
			04 13 0002C	.WORD	<BUG\$ NOTDDBDDB!4>	
			FEFF 0002E	MOVL	4(DDB), UCB	: 0708
			0000* 00030	BEQL	13\$: 0710
	58	04	A4 D0 00032 5\$:	CMPL	10(UCB), #16	: 0712
			74 13 00036 6\$:	BEQL	7\$	
	10	0A	A8 91 00038	BUGW		: 0713
			04 13 0003C	.WORD	<BUG\$ NOTUCBUCB!4>	
			FEFF 0003E	MOVAB	56(UCB), R0	: 0715
			0000* 00040	BBC	#14, (R0), 12\$: 0716
	50	38	A8 9E 00042 7\$:	BBC	#19, (R0), 12\$: 0717
5C	60		0E E1 00046	BLBS	3(R0), 12\$: 0718
58	60		13 E1 0004A	BBS	#5, (R0), 12\$: 0719
	54	03	A0 E8 0004E	BBC	#4, MOUNT_OPTIONS, 8\$: 0720
50	60		05 E0 00052	MOVL	@#SCH\$GL_CURPCB, R0	: 0721
14	0000G		04 E1 00056	CMPL	44(UCB), -96(R0)	
46	60		17 E1 0005C	BNEQ	12\$	
	50	00000000G	9F D0 00060	BRB	9\$	
	60		A8 D1 00067	BBS	#23, (R0), 12\$: 0722
			38 12 0006C	MOVL	52(UCB), VCB	: 0726
			04 11 0006E	CMPL	10(VCB), #17	: 0727
	32	60	17 E0 00070 8\$:	BEQL	10\$	
			04 13 0007C	BUGW		: 0728
			FEFF 0007E	.WORD	<BUG\$ NOTVCBUCB!4>	
			0000* 00080	MOVL	32(VCB), RVT	: 0730
			AA D0 00082 10\$:	BEQL	12\$: 0731
			1E 13 00086	CMPL	10(RVT), #16	: 0732
	10	0A	A7 91 00088	BEQL	12\$	
			18 13 0008C	CMPL	10(RVT), #14	: 0735
	0E	0A	A7 91 0008E	BEQL	11\$	
			04 13 00092	BUGW		: 0736
			FEFF 00094	.WORD	<BUG\$ NOTRVTVCB!4>	
			0000* 00096	MOVL	NAME, R0	: 0737
0C	20	04	AC D0 00098 11\$:	CMPL	(R0), @4(R0), #32, #12, 12(RVT)	: 0738
			60 2D 0009C	BEQL	15\$	
			A7 000A2	MOVL	48(UCB), UCB	: 0742
			12 13 000A4	BRB	6\$: 0710
	58	30	A8 D0 000A6 12\$:	MOVL	(DDB), DDB	: 0744
			8A 11 000AA	BRW	3\$: 0703
	54		64 D0 000AC 13\$:			
			FF71 31 000AF			

			55		65	D0	000B2	14\$:	MOVL	(SB), SB		0747
					5B	31	000B5		BRW	1\$		0697
			50	0000G	CF	3C	000B8	15\$:	MOVZWL	HOME_BLOCK+38, R0		0757
			50	0000G	CF	B1	000BD		CMPW	HOME_BLOCK+40, R0		
					05	1B	000C2		BLEQU	16\$		
			50	0000G	CF	3C	000C4		MOVZWL	HOME_BLOCK+40, R0		
			56		50	D0	000C9	16\$:	MOVL	R0, ENTRY_COUNT		
					54	D5	000CC		TSTL	DD8		0759
					51	12	000CE		BNEQ	19\$		
					56	D5	000D0		TSTL	ENTRY_COUNT		0762
					15	12	000D2		BNEQ	17\$		
			56		01	D0	000D4		MOVL	#1, ENTRY_COUNT		0765
		0000G	CF	00010001	8F	D0	000D7		MOVL	#65537, HOME_BLOCK+38		0766
			50	0000G	CF	D0	000E0		MOVL	REAL_VCB, R0		0768
		OE	A0		01	B0	000E5		MOVW	#1, T4(R0)		
					7E	D4	000E9	17\$:	CLRL	-(SP)		0771
			50		A6	9E	000EB		MOVAB	4(R6), R0		
			12	04	50	D1	000EF		CPL	R0, #18		
					03	1E	000F2		BGEQU	18\$		
			50		12	D0	000F4		MOVL	#18, R0		
		7E	50		02	78	000F7	18\$:	ASHL	#2, R0, -(SP)		
			6E	00000044	8F	C0	000FB		ADDL2	#68, (SP)		
			0000G		02	FB	00102		CALLS	#2, ALLOCATE_MEM		
			57		50	D0	00107		MOVL	R0, RVT		
		OA	A7		0E	90	0010A		MOVB	#14, 10(RVT)		0772
		OB	A7		56	90	0010E		MOVB	ENTRY_COUNT, 11(RVT)		0773
			50	04	AC	D0	00112		MOVL	NAME, R0		0774
OC			20	04	B0	2C	00116		MOVCS	(R0), @4(R0), #32, #12, 12(RVT)		
					A7		0011C					
					00D3	31	0011E		BRW	28\$		0759
					56	D5	00121	19\$:	TSTL	ENTRY_COUNT		0786
					46	12	00123		BNEQ	22\$		
					44	A7	00125		TSTL	68(RVT)		0789
					12	12	00128		BNEQ	20\$		
			0000G	CF	00	FB	0012A		CALLS	#0, UNLOCK_IODB		0792
				0072819C	8F	DD	0012F		PUSHL	#7504284		0793
			00000000G	00	01	FB	00135		CALLS	#1, LIB\$STOP		
			56	0B	A7	9A	0013C	20\$:	MOVZBL	11(RVT), ENTRY_COUNT		0795
					56	D6	00140		INCL	ENTRY_COUNT		
			00000100	8F	56	D1	00142		CPL	ENTRY_COUNT, #256		0796
					12	1F	00149		BLSSU	21\$		
			0000G	CF	00	FB	0014B		CALLS	#0, UNLOCK_IODB		0799
				007281A4	8F	DD	00150		PUSHL	#7504292		0800
			00000000G	00	01	FB	00156		CALLS	#1, LIB\$STOP		
			0000G	CF	56	B0	0015D	21\$:	MOVW	ENTRY_COUNT, HOME_BLOCK+38		0802
			50	0000G	CF	D0	00162		MOVL	REAL_VCB, R0		0803
		OE	A0		56	B0	00167		MOVW	ENTRY_COUNT, 14(R0)		
			52		02	78	0016B	22\$:	ASHL	#2, ENTRY_COUNT, R2		0806
			52	44	A2	9E	0016F		MOVAB	68(R2), R2		
52		08	A7		00	ED	00173		CMPZV	#0, #16, 8(RVT), R2		
					79	1E	00179		BGEQU	28\$		
			0000G	CF	00	FB	0017B		CALLS	#0, UNLOCK_IODB		0817
				007281A4	8F	DD	00180		PUSHL	#7504292		0818
			00000000G	00	01	FB	00186		CALLS	#1, LIB\$STOP		
					7E	D4	0018D		CLRL	-(SP)		0822
					52	DD	0018F		PUSHL	R2		
			0000G	CF	02	FB	00191		CALLS	#2, ALLOCATE_MEM		

		59		50	D0	00196	MOVL	R0, NEW_RVT			
		58	08	A9	3C	00199	MOVZWL	8(NEW_RVT), SIZE	0823		
5B	00	67	08	A7	2C	0019D	MOVCS	8(RVT), (RVT), #0, SIZE, (NEW_RVT)	0824		
				69		001A3					
	08	A9		58	B0	001A4	MOVW	SIZE, 8(NEW_RVT)	0825		
		55	08	A7	9A	001A8	MOVZBL	11(RVT), R5	0827		
		54	44	A9	9E	001AC	MOVAB	68(NEW_RVT), R4	0830		
				50	D4	001B0	CLRL	J			
				30	11	001B2	BRB	27\$			
		58	FC	A4	40	D0	001B4	23\$:	MOVL	-4(R4)[J], UCB	
				29	13	001B9	BEQL	27\$	0831		
		5A	34	A8	D0	001BB	MOVL	52(UCB), VCB	0834		
	20	AA		59	D0	001BF	MOVL	NEW_RVT, 32(VCB)	0835		
		51		6A	D0	001C3	MOVL	(VCB), FCB	0837		
		5A		51	D1	001C6	24\$:	CPL	FCB, VCB	0838	
				16	13	001C9	BEQL	26\$			
		52	10	A1	D0	001CB	MOVL	16(FCB), WINDOW	0841		
		53	10	A1	9E	001CF	25\$:	MOVAB	16(FCB), R3	0842	
		53		52	D1	001D3	CPL	WINDOW, R3			
				EE	13	001D6	BEQL	24\$			
	1C	A2		59	D0	001D8	MOVL	NEW_RVT, 28(WINDOW)	0845		
		52		62	D0	001DC	MOVL	(WINDOW), WINDOW	0846		
				EE	11	001DF	BRB	25\$	0842		
		51		61	D0	001E1	26\$:	MOVL	(FCB), FCB	0849	
	CC	50		55	F3	001E4	27\$:	AOBLEQ	R5, J, 23\$	0827	
				7E	D4	001E8	CLRL	-(SP)	0852		
				57	DD	001EA	PUSHL	RVT			
		0000G	CF	02	FB	001EC	CALLS	#2, DEALLOCATE_MEM			
				59	D0	001F1	MOVL	NEW_RVT, RVT	0853		
				50	0000G	CF	3C	001F4	28\$:	MOVZWL	HOME_BLOCK+38, R0
					40	A740	D5	001F9	TSTL	64(RVT)[R0]	
					12	13	001FD	BEQL	29\$		
		0000G	CF	00	FB	001FF	CALLS	#0, UNLOCK_IODB	0865		
				8F	DD	00204	PUSHL	#7504316	0866		
		00000000G	00	007281BC	01	FB	0020A	CALLS	#1, LIB\$STOP		
				04	A7	B6	00211	29\$:	INCW	4(RVT)	0869
				50	08	A7	9A	00214	MOVZBL	11(RVT), R0	0870
				56		50	D1	00218	CPL	R0, ENTRY_COUNT	
						03	1E	0021B	BGEQU	30\$	
				50		56	D0	0021D	MOVL	ENTRY_COUNT, R0	
		08	A7	50	90	00220	30\$:	MOVB	R0, 1T(RVT)		
				50	0000G	CF	3C	00224	MOVZWL	HOME_BLOCK+38, R0	0871
				40	A740	08	AC	D0	00229	MOVL	NEW_UCB, 64(RVT)[R0]
		0000G	CF	00	FB	0022F	CALLS	#0, UNLOCK_IODB	0873		
		0000G	CF	08	8A	00234	BICB2	#8, CLEANUP_FLAGS+1	0874		
		0000G	CF	57	D0	00239	MOVL	RVT, REAL_RVT	0875		
				50		57	D0	0023E	MOVL	RVT, R0	0876
						04	00241	RET	0878		

: Routine Size: 578 bytes, Routine Base: \$CODE\$ + 0000

```

: 349      0879  1
: 350      0880  1 END
: 351      0881  0 ELUDOM

```

.EXTRN LIB\$STOP

PSECT SUMMARY

```
:  
: Name Bytes Attributes  
: $CODE$ 578 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 50 0 1000 00:01.9
```

COMMAND QUALIFIERS

```
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$MAKRV/T/OBJ=OBJ$MAKRV/T/MRCS$MAKRV/T/UPDATE=(ENHS$MAKRV/T)
```

```
: Size: 578 code + 0 data bytes  
: Run Time: 00:19.0  
: Elapsed Time: 00:36.8  
: Lines/CPU Min: 2783  
: Lexemes/CPU-Min: 29143  
: Memory Used: 224 pages  
: Compilation Complete
```

