

FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFF	111111	111111	AAA	AAA
FFF	111111	111111	AAA	AAA
FFF	111111	111111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111111111	111111111	AAA	AAA
FFF	111111111	111111111	AAA	AAA
FFF	111111111	111111111	AAA	AAA


```
SSSSSSSS NN NN DDDDDDDD EEEEEEEEE RRRRRRR LL
SSSSSSSS NN NN DDDDDDDD EEEEEEEEE RRRRRRR LL
SS SS NN NN DD DD EE RR RR LL
SS NN NN DD DD EE RR RR LL
SSSSSS NN NN DD DD EEEEEEE RRRRRRR LL
SSSSSS NN NN DD DD EEEEEEE RRRRRRR LL
SS NN NNN DD DD EE RR RR LL
SS NN NNN DD DD EE RR RR LL
SS NN NNN DD DD EE RR RR LL
SSSSSS NN NN DDDDDDDD EEEEEEEEE RR RR LLLLLLLLL
SSSSSS NN NN DDDDDDDD EEEEEEEEE RR RR LLLLLLLLL
.....
.....
.....
.....
```

```
LL I I I I I SSSSSSS
LL I I I I I SSSSSSS
LL I I SS
LL I I SS
LL I I SS
LL I I SSSSS
LL I I SSSSS
LL I I SS
LL I I SS
LL I I SS
LL I I SS
LLLLLLLLLL I I I I I SSSSSSS
LLLLLLLLLL I I I I I SSSSSSS
```



```
0001 0 MODULE SNDERL (  
0002 0     LANGUAGE (BLISS32),  
0003 0     IDENT = 'V04-000'  
0004 0 ) =  
0005 1 BEGIN  
0006 1  
0007 1  
0008 1 *****  
0009 1 *  
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0027 1 *  
0028 1 *  
0029 1 *****  
0030 1  
0031 1 ++  
0032 1  
0033 1 FACILITY: F11ACP Structure Level 1  
0034 1  
0035 1 ABSTRACT:  
0036 1  
0037 1     This routine sends a message to the error logger to inform it of a  
0038 1     volume mount or dismount.  
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: 23-Jun-1978 18:47  
0049 1  
0050 1 MODIFIED BY:  
0051 1  
0052 1     V03-001 LMP0221 L. Mark Pilant, 27-Mar-1984 13:21  
0053 1     Change UCBSL_OWNUIC to ORBSL_OWNER and UCBSW_VPROT to  
0054 1     ORBSW_PROT.  
0055 1  
0056 1     A0100 ACG0001 Andrew C. Goldstein, 10-Oct-1978 20:01  
0057 1     Previous revision history moved to F11A.REV
```


SNDRL
V04-000

H 1
16-Sep-1984 01:18:56
14-Sep-1984 12:29:52

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11A.SRC]SNDRL.B32;1 Page (1) 2

```
.. 58      0058 1  !  
.. 59      0059 1  !**  
.. 60      0060 1  
.. 61      0061 1  
.. 62      0062 1  LIBRARY 'SYS$LIBRARY:LIB.L32';  
.. 63      0063 1  REQUIRE 'SRC$FCPDEF.B32';  
.. 64      0378 1  
.. 65      0379 1  
.. 66      0380 1  ! This routine is called at raised IPL and must be locked into the working set.  
.. 67      0381 1  !  
.. 68      0382 1  
.. 69      0383 1  LOCK_CODE;
```

SNDRL
V04-000


```

71 0384 1 GLOBAL ROUTINE SEND_ERRLOG (MODE, UCB) =
72 0385 1
73 0386 1 !++
74 0387 1
75 0388 1 FUNCTIONAL DESCRIPTION:
76 0389 1
77 0390 1 This routine sends a message to the error logger to inform it of a
78 0391 1 volume mount or dismount.
79 0392 1
80 0393 1
81 0394 1 CALLING SEQUENCE:
82 0395 1 SEND_ERRLOG (ARG1, ARG2)
83 0396 1
84 0397 1 INPUT PARAMETERS:
85 0398 1 ARG1: 1 to signal mount
86 0399 1 0 to signal dismount
87 0400 1 ARG3: address of UCB
88 0401 1
89 0402 1 IMPLICIT INPUTS:
90 0403 1 NONE
91 0404 1
92 0405 1 OUTPUT PARAMETERS:
93 0406 1 NONE
94 0407 1
95 0408 1 IMPLICIT OUTPUTS:
96 0409 1 NONE
97 0410 1
98 0411 1 ROUTINE VALUE:
99 0412 1 1
100 0413 1
101 0414 1 SIDE EFFECTS:
102 0415 1 Message sent to error logger
103 0416 1
104 0417 1 !--
105 0418 1
106 0419 2 BEGIN
107 0420 2
108 0421 2 MAP
109 0422 2 UCB : REF BBLOCK; ! UCB argument
110 0423 2
111 0424 2 LINKAGE
112 0425 2 L_ERL_ALLOC = JSB (REGISTER = 1) :
113 0426 2 GLOBAL (ADDRESS = 2)
114 0427 2 NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11),
115 0428 2
116 0429 2 L_ERL_RELEASE = JSB (REGISTER = 2) :
117 0430 2 NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11);
118 0431 2
119 0432 2 LOCAL
120 0433 2 ORB : REF BBLOCK, ! local address of ORB
121 0434 2 MSG_BUFFER : REF BBLOCK; ! other buffer pointer to dodge MOVC
122 0435 2
123 0436 2 EXTERNAL ROUTINE
124 0437 2 ERL$ALLOCEMB : L_ERL_ALLOC ADDRESSING_MODE (GENERAL),
125 0438 2 ! allocate error log buffer
126 0439 2 ERL$RELEASEMB : L_ERL_RELEASE ADDRESSING_MODE (GENERAL);
127 0440 2 ! release error log buffer

```



```

128 0441 2
129 0442 2
130 0443 2 ! Allocate an error log buffer. If this fails, forget it.
131 0444 2
132 0445 2
133 0446 2 BEGIN
134 0447 2 GLOBAL REGISTER
135 0448 2 ADDRESS = 2 : REF BBLOCK; ! pointer to error log buffer
136 0449 2
137 0450 2 IF NOT ERL$ALLOCEMB (EMBSK_VM_LENGTH)
138 0451 2 THEN RETURN 1;
139 0452 2 MSG_BUFFER = .ADDRESS;
140 0453 2 END;
141 0454 2
142 0455 2 ! Now fill in the message buffer.
143 0456 2
144 0457 2
145 0458 2 IF .MODE
146 0459 2 THEN MSG_BUFFER[EMBSW_VM_ENTRY] = EMBSK_VM
147 0460 2 ELSE MSG_BUFFER[EMBSW_VM_ENTRY] = EMBSK_VD; ! log entry type
148 0461 2
149 0462 2 ORB = .UCB[UCBSL_ORB];
150 0463 2 MSG_BUFFER[EMBSL_VM_OWNUIC] = .ORB[ORB$OWNER];
151 0464 2 MSG_BUFFER[EMBSL_VM_ERRCNT] = .UCB[UCBSW_ERRCNT];
152 0465 2 MSG_BUFFER[EMBSL_VM_OPRCNT] = .UCB[UCBSL_OPCNT];
153 0466 2 MSG_BUFFER[EMBSW_VM_UNIT] = .UCB[UCBSW_UNIT];
154 0467 2
155 0468 2 MSG_BUFFER[EMBSW_VM_VOLNUM] = 0;
156 0469 2 MSG_BUFFER[EMBSW_VM_NUMSET] = 0;
157 0470 2
158 0471 2 CH$MOVE ((BBLOCK [.UCB[UCBSL_DDB], DDB$NAME])<0,8> + 1,
159 0472 2 BBLOCK [.UCB[UCBSL_DDB], DDB$NAME],
160 0473 2 MSG_BUFFER[EMBSB_VM_NAMLNG]);
161 0474 2
162 0475 2 IF .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_FOR]
163 0476 2 OR NOT .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_SQD]
164 0477 2 THEN
165 0478 2 CH$MOVE (VCB$VOLNAME,
166 0479 2 BBLOCK [.UCB[UCBSL_VCB], VCB$VOLNAME],
167 0480 2 MSG_BUFFER[EMB$T_VM_LABEL])
168 0481 2 ELSE
169 0482 2 BEGIN
170 0483 2 LOCAL
171 0484 2 MVL : REF BBLOCK, ! magtape volume labels
172 0485 2 MVL_ENTRY : REF BBLOCK, ! address of label entry
173 0486 2 RUN, ! relative unit number
174 0487 2 RVT : REF BBLOCK, ! relative volume table
175 0488 2 UCBLIST : REF VECTOR, ! address of UCB list
176 0489 2 VCB : REF BBLOCK; ! volume control block
177 0490 2 VCB = .UCB[UCBSL_VCB];
178 0491 2 RVT = .VCB[VCBSL_RVT];
179 0492 2 UCBLIST = RVT[RVT$UCBLST];
180 0493 2 MVL = .VCB[VCBSL_MVL];
181 0494 2 MSG_BUFFER[EMBSW_VM_NUMSET] = .MVL[MVL$B_NVOLS]; ! no of volumes in vol set known
182 0495 2 CH$FILL(' ', VCB$VOLNAME, MSG_BUFFER[EMB$T_VM_LABEL]);
183 0496 2 INCR I FROM 0 TO .RVT[RVT$B_NVOLS] - 1 DO
184 0497 2 BEGIN

```

```

185 0498 4 RUN = .I;
186 0499 4 IF .UCBLIST[.I] EQL .UCB THEN EXITLOOP;
187 0500 3 END;
188 0501 3 MVL ENTRY = .MVL + MVL$K FIXLEN;
189 0502 3 INCR I FROM 0 TO .MVL[MVL$B_NVOLS] -1 DO
190 0503 4 BEGIN
191 0504 4 IF .MVL ENTRY[MVL$B_RVN] EQL .RUN
192 0505 4 AND .MVL_ENTRY[MVL$V_MOUNTED]
193 0506 4 THEN
194 0507 5 BEGIN
195 0508 5 MSG_BUFFER[EMB$W_VM_VOLNUM] = .I + 1;
196 0509 5 CH$COPY(MVL$S_VOCLBC,MVL_ENTRY[MVL$T_VOLLBL],',',
197 0510 5 VCB$S_VOLNAME,MSG_BUFFER[EMB$T_VM_LABEL]);
198 0511 5 EXITLOOP;
199 0512 4 END;
200 0513 4 MVL_ENTRY = .MVL_ENTRY + MVL$K_LENGTH;
201 0514 3 END;
202 0515 2 END;
203 0516 2
204 0517 2 ! Finally release the buffer and make the entry.
205 0518 2 !
206 0519 2
207 0520 2 ERL$RELEASEMB (.MSG_BUFFER);
208 0521 2
209 0522 2 RETURN 1;
210 0523 2
211 0524 1 END;
! end of routine SEND_ERRLOG

```

				.TITLE	SNDRERL	
				.IDENT	\V04-000\	
				.EXTRN	ERL\$ALLOCEMB, ERL\$RELEASEMB	
				.PSECT	\$LOCKEDC1\$,NOWRT,2	
				.ENTRY	SEND_ERRLOG, Save R2,R3,R4,R5,R6,R7,R8,R9,-	0384
					R10	
51		3E	D0 00002	MOVL	#62, R1	0450
	00000000G	00	16 00005	JSB	ERL\$ALLOCEMB	
03		50	E8 0000B	BLBS	R0, 1\$	
		00C0	31 0000E	BRW	13\$	
5A		52	D0 00011	MOVL	ADDRESS, MSG_BUFFER	0452
07	04	AC	E9 00014	BLBC	MODE, 2\$	0458
04	AA	8F	9B 00018	MOVZBW	#64, 4(MSG_BUFFER)	0459
		05	11 0001D	BRB	3\$	
04	AA	8F	9B 0001F	MOVZBW	#65, 4(MSG_BUFFER)	0460
	59	08	AC D0 00024	MOVL	UCB, R9	0462
	50	1C	A9 D0 00028	MOVL	28(R9), ORB	
10	AA	60	D0 0002C	MOVL	(ORB), 16(MSG_BUFFER)	0463
14	AA	0082	C9 3C 00030	MOVZWL	130(R9), 20(MSG_BUFFER)	0464
18	AA	70	A9 D0 00036	MOVL	112(R9), 24(MSG_BUFFER)	0465
1C	AA	54	A9 B0 0003B	MOVW	84(R9), 28(MSG_BUFFER)	0466
		2E	AA D4 00040	CLRL	46(MSG_BUFFER)	0468
	50	28	A9 D0 00043	MOVL	40(R9), R0	0471
	51	14	A0 9A 00047	MOVZBL	20(R0), R1	
		51	D6 0004B	INCL	R1	

SNDRRL
V04-000

L 1
16-Sep-1984 01:18:56
14-Sep-1984 12:29:52

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11A.SRC]SNDRRL.B32;1

Page 6
(2)

**F

1E	AA	14	A0	51	28	0004D	MOV C3	R1, 20(R0), 30(MSG_BUFFER)	:	0473	
			05	3B	A9	E8 00053	BLBS	59(R9), 4\$	:	0475	
	OC	38	A9	05	E0	00057	BBS	#5, 56(R9), 5\$	:	0476	
			50	34	A9	D0 0005C	4\$:	MOVL	52(R9), R0	:	0479
32	AA	14	A0	0C	28	00060	MOV C3	#12, 20(R0), 50(MSG_BUFFER)	:	0480	
				60	11	00066	BRB	12\$	:		
			50	34	A9	D0 00068	5\$:	MOVL	52(R9), VCB	:	0490
			56	20	A0	D0 0006C	MOVL	32(VCB), RVT	:	0491	
			58	44	A6	9E 00070	MOVAB	68(R6), UCBLIST	:	0492	
			57	34	A0	D0 00074	MOVL	52(VCB), MVL	:	0493	
OC			AA	0B	A7	9B 00078	MOVZBW	11(MVL), 48(MSG_BUFFER)	:	0494	
	20	30	6E	00	2C	0007D	MOV C5	#0, (SP), #32, #12, 50(MSG_BUFFER)	:	0495	
				32	AA	00082			:		
			51	0B	A6	9A 00084	MOVZBL	11(RVT), R1	:	0496	
			50		01	CE 00088	MNEGL	#1, I	:	0499	
					09	11 0008B	BRB	7\$	:		
			56		50	D0 0008D	6\$:	MOVL	I, RUN	:	0498
			59		68	40 D1 00090	CMPL	(UCBLIST)[I], R9	:	0499	
					04	13 00094	BEQL	8\$	:		
	F3		50		51	F2 00096	7\$:	AOBLSS	R1, I, 6\$	:	0496
			58	24	A7	9E 0009A	8\$:	MOVAB	36(R7), MVL_ENTRY	:	0501
			57	0B	A7	9A 0009E	MOVZBL	11(MVL), R7	:	0502	
			59		01	CE 000A2	MNEGL	#1, I	:	0504	
					1D	11 000A5	BRB	11\$	:		
56	06	A8	08		00	ED 000A7	9\$:	CMPZV	#0, #8, 6(MVL_ENTRY), RUN	:	
					12	12 000AD	BNEQ	10\$	:		
			0E	07	A8	E9 000AF	BLBC	7(MVL_ENTRY), 10\$	:	0505	
	2E	AA	59		01	A1 000B3	ADDW3	#1, I, 46(MSG_BUFFER)	:	0508	
OC		20	68		06	2C 000B8	MOV C5	#6, (MVL_ENTRY), #32, #12, 50(MSG_BUFFER)	:	0510	
				32	AA	000BD			:		
				07	11	000BF	BRB	12\$	:	0507	
			58		08	C0 000C1	10\$:	ADDL2	#8, MVL_ENTRY	:	0513
	DF		59		57	F2 000C4	11\$:	AOBLSS	R7, I, 9\$	:	0502
			52		5A	D0 000C8	12\$:	MOVL	MSG_BUFFER, R2	:	0520
				00	16	000CB	JSB	ERL\$RELEASEMB	:		
			50	00000000G	01	D0 000D1	13\$:	MOVL	#1, R0	:	0522
					04	000D4	RET		:	0524	

; Routine Size: 213 bytes, Routine Base: \$LOCKEDC1\$ + 0000

: 212 0525 1
: 213 0526 1 END
: 214 0527 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$LOCKEDC1\$	213	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

SNDERL
V04-000

M 1
16-Sep-1984 01:18:56
14-Sep-1984 12:29:52

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11A.SRC]SNDERL.B32;1 Page 7 (2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	37	0	1000	00:01.9

COMMAND QUALIFIERS

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

: Size: 213 code + 0 data bytes
: Run Time: 00:09.3
: Elapsed Time: 00:25.7
: Lines/CPU Min: 3411
: Lexemes/CPU-Min: 17061
: Memory Used: 128 pages
: Compilation Complete

0167 AH-BT13A-SE
VAX/VMS V4.0

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