

CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL

```

SSSSSSSS HH HH 000000 WW WW EEEEEEEEE RRRRRRR RRRRRRR 000000 RRRRRRR
SSSSSSSS HH HH 000000 WW WW EEEEEEEEE RRRRRRR RRRRRRR 000000 RRRRRRR
SS HH HH 00 00 WW WW EE RR RR RR RR 00 00 RR RR
SS HH HH 00 00 WW WW EE RR RR RR RR 00 00 RR RR
SS HH HH 00 00 WW WW EE RR RR RR RR 00 00 RR RR
SS HH HH 00 00 WW WW EE RR RR RR RR 00 00 RR RR
SSSSSS HHHHHHHHH 00 00 WW WW EEEEEEE RRRRRRR RRRRRRR 00 00 RRRRRRR
SSSSSS HHHHHHHHH 00 00 WW WW EEEEEEE RRRRRRR RRRRRRR 00 00 RRRRRRR
SS HH HH 00 00 WW WW EE RR RR RR RR 00 00 RR RR
SS HH HH 00 00 WW WW EE RR RR RR RR 00 00 RR RR
SS HH HH 00 00 WWW WWW EE RR RR RR RR 00 00 RR RR
SSSSSS HH HH 000000 WW WW EEEEEEEEE RRRRRRR RR RR RR RR 000000 RR RR
SSSSSSSS HH HH 000000 WW WW EEEEEEEEE RRRRRRR RR RR RR RR 000000 RR RR

```

```

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
LL          II      SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

```
1 0001 0 MODULE showerror (IDENT = 'V04-000'  
2 0002 0 ADDRESSING_MODE (EXTERNAL = GENERAL)) =  
3 0003 0  
4 0004 1 BEGIN  
5 0005 1  
6 0006 1  
7 0007 1 *****  
8 0008 1 *  
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *  
10 0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *  
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25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *  
26 0026 1 *  
27 0027 1 *  
28 0028 1 *****  
29 0029 1  
30 0030 1  
31 0031 1 ++  
32 0032 1  
33 0033 1 FACILITY: SHOW utility  
34 0034 1  
35 0035 1 ABSTRACT:  
36 0036 1 This module contains the routines for the SHOW ERROR command.  
37 0037 1  
38 0038 1 ENVIRONMENT:  
39 0039 1 VAX native, user and kernel mode  
40 0040 1  
41 0041 1 AUTHOR: Gerry Smith CREATION DATE: 28-Jul-1982  
42 0042 1  
43 0043 1 MODIFIED BY:  
44 0044 1  
45 0045 1 V03-002 GAS0149 Gerry Smith 29-Jun-1983  
46 0046 1 Use IOC$CVT_DEVNAM to get the device name.  
47 0047 1  
48 0048 1 V03-001 GAS0117 Gerry Smith 12-Apr-1983  
49 0049 1 Change display to work with long device names.  
50 0050 1  
51 0051 1 --
```

```

53 0052 1
54 0053 1
55 0054 1  ! Include files
56 0055 1
57 0056 1
58 0057 1 LIBRARY 'SYSS$LIBRARY:LIB';           ! VAX/VMS system definitions
59 0058 1 REQUIRE 'SRC$:SHOWDEF';             ! SHOW common definitions
60 0157 1
61 0158 1
62 0159 1 ! Define the linkage for the routines to lock and unlock the I/O database,
63 0160 1 ! scan the database, and fabricate the device name.
64 0161 1
65 0162 1 LINKAGE
66 0163 1     IOLOCK = JSB (REGISTER = 4),
67 0164 1     IOSCAN = JSB (REGISTER = 11,           ! Call with DDB,
68 0165 1     REGISTER = 10;                       ! UCB,
69 0166 1     REGISTER = 11;                       ! Return with DDB,
70 0167 1     REGISTER = 10);                       ! UCB
71 0168 1     CVTDEV = JSB (REGISTER = 0,           ! Length of output buffer,
72 0169 1     REGISTER = 1;                       ! Address of output buffer
73 0170 1     REGISTER = 4;                       ! Format of device name
74 0171 1     REGISTER = 5;                       ! Address of UCB
75 0172 1     REGISTER = 1);                       ! Length of final name
76 0173 1
77 0174 1
78 0175 1
79 0176 1
80 0177 1 ! Define the flags longword bits.
81 0178 1
82 0179 1 MACRO
83 0180 1     SHOWSV_BRIEF      =      0, 0, 1, 0%;           ! /BRIEF
84 0181 1     SHOWSV_FULL      =      0, 1, 1, 0%;           ! /ALL
85 0182 1
86 0183 1
87 0184 1
88 0185 1 ! Define macros to describe the fields in the scratch area.
89 0186 1
90 0187 1 MACRO
91 0188 1     d_l_devlen = 0, 0, 32, 0%;           ! Device name length
92 0189 1     d_a_ptr   = 4, 0, 32, 0%;           ! Pointer to device name
93 0190 1     d_l_errcnt = 8, 0, 32, 0%;           ! Error count
94 0191 1     d_t_name  = 12, 0, 8, 0%;           ! Device name
95 0192 1 LITERAL d_k_length = $BYTEOFFSET(d_t_name) + 21;
96 0193 1
97 0194 1 EXTERNAL LITERAL
98 0195 1     show$_noerrors;           ! No device errors found
99 0196 1

```

101	0197	1	:
102	0198	1	:
103	0199	1	:
104	0200	1	:
105	0201	1	FORWARD ROUTINE
106	0202	1	show\$errors : NOVALUE,
107	0203	1	get_data,
108	0204	1	print_data : NOVALUE;
109	0205	1	
110	0206	1	EXTERNAL
111	0207	1	scs\$ga_localsb,
112	0208	1	exe\$gl_mchkerrs,
113	0209	1	exe\$gl_memerrs,
114	0210	1	ioc\$gl_devlist,
115	0211	1	sch\$gl_curpcb;
116	0212	1	
117	0213	1	EXTERNAL ROUTINE
118	0214	1	cli\$present,
119	0215	1	lib\$get_vm,
120	0216	1	show\$write_line : NOVALUE,
121	0217	1	ioc\$scan_iodb : IOSCAN,
122	0218	1	ioc\$cvr_devnam : CVTDEV,
123	0219	1	sch\$ioiocr : IOLOCK,
124	0220	1	sch\$ionunlock : IOLOCK;

```

126 0221 1 GLOBAL ROUTINE show$errors : NOVALUE =
127 0222 2 BEGIN
128 0223 3
129 0224 4 LOCAL
130 0225 5     status,           ! General status return
131 0226 6     flags : $BBLOCK[4], ! Flags longword
132 0227 7     arglst : VECTOR[3], ! Argument list for $CMKRNL call
133 0228 8     data : VECTOR[2];   ! Address limits of scratch area
134 0229 9
135 0230 10
136 0231 11     ! Obtain any qualifiers, if present.
137 0232 12
138 0233 13     flags[show$v_brief] = cli$present(%ASCID 'BRIEF');
139 0234 14     flags[show$v_full] = cli$present(%ASCID 'FULL');
140 0235 15
141 0236 16
142 0237 17     ! Allocate a scratch area in which to put data about the errors.
143 0238 18     ! The beginning and ending addresses of the area will be returned in DATA.
144 0239 19
145 0240 20     IF NOT (status = lib$get_vm(%REF(64*512),           ! Request 64 pages
146 0241 21     data))                                           ! Put address limits here
147 0242 22 THEN SIGNAL STOP(show$ insvirmem, 0, .status);   ! Stop if error.
148 0243 23     data[1] = .data[0] + 64*512 - 1;                 ! Compute end of area
149 0244 24
150 0245 25     ! Call the data-gathering routine in kernel mode, passing the address of the
151 0246 26     ! address limits as an argument. Save the status.
152 0247 27
153 0248 28     arglst[0] = 2;
154 0249 29     arglst[1] = data;
155 0250 30     arglst[2] = flags;
156 P 0251 31     IF NOT (status = $CMKRNL(ROUTIN = get_data,
157 0252 32     ARGV = arglst))
158 0253 33 THEN
159 0254 34     BEGIN
160 0255 35     IF .status NEQU ss$_vasfull
161 0256 36     THEN
162 0257 37     BEGIN
163 0258 38     SIGNAL(.status);
164 0259 39     RETURN;
165 0260 40     END;
166 0261 41     END;
167 0262 42
168 0263 43
169 0264 44     ! Format and print the data.
170 0265 45
171 0266 46     print_data(data, flags);
172 0267 47
173 0268 48
174 0269 49     ! If the status return from $CMKRNL is not 1, then signal that error at this
175 0270 50     ! time. Otherwise, simply return.
176 0271 51
177 0272 52     IF .status NEQ 1
178 0273 53     THEN SIGNAL(.status);
179 0274 54
180 0275 55     RETURN;
181 0276 56     ! End of show$error

```

```

.TITLE SHOWERROR
.IDENT \V04-000\

.PSECT $SPLITS$,NOWRT,NOEXE,2

00 00 00 46 45 49 52 42 00000 P.AAB: .ASCII \BRIEF\<0><0><0>
                                010E0005 00008 P.AAA: .LONG 17694725
                                00000000' 0000C .ADDRESS P.AAB
                                4C 4C 55 46 00010 P.AAD: .ASCII \FULL\
                                010E0004 00014 P.AAC: .LONG 17694724
                                00000000' 00018 .ADDRESS P.AAD

.EXTRN SHOW$ NOERRORS, SCSS$GA_LOCALSB
.EXTRN EXE$GC_MCHKERRS
.EXTRN EXE$GL_MEMERRS, IOC$GL_DEVLIST
.EXTRN SCH$GL_CURPCB, CLIS$PRESENT
.EXTRN LIB$GET_VM, SHOW$WRITE_LINE
.EXTRN IOC$SCAN_IODB, IOC$CVT_DEVNAM
.EXTRN SCH$IOLOCKR, SCH$IOUNLOCK
.EXTRN SYSS$CMKRNL

.PSECT $CODE$,NOWRT,2

                                000C 00000
                                53 00000000G 00 9E 00002 .ENTRY SHOW$ERRORS, Save R2,R3
                                5E 1C C2 00009 MOVAB CLIS$PRESENT, R3
                                0000' CF 9F 0000C SUBL2 #28, SP
                                63 01 FB 00010 PUSHAB P.AAA
04 AE 01 00 50 F0 00013 CALLS #1, CLIS$PRESENT
                                0000' CF 9F 00019 INSV R0, #0, #1, FLAGS
04 AE 01 63 01 FB 0001D PUSHAB P.AAC
                                50 F0 00020 CALLS #1, CLIS$PRESENT
                                08 AE 9F 00026 INSV R0, #1, #1, FLAGS
                                04 AE 8000 8F 3C 00029 PUSHAB DATA
                                04 AE 9F 0002F MOVZWL #32768, 4(SP)
                                00000000G 00 02 FB 00032 PUSHAB 4(SP)
                                52 50 D0 00039 CALLS #2, LIB$GET_VM
                                11 52 E8 0003C MOVL R0, STATUS
                                7E DD 0003F BLBS STATUS, 1$
                                007812F2 8F DD 00041 PUSHL STATUS
                                00000000G 00 03 FB 00049 CLRL -(SP)
0C AE 08 AE 00007FFF 8F C1 00050 1$: PUSHL #7869170
                                10 AE 02 D0 0005A CALLS #3, LIB$STOP
                                14 AE 08 AE 9E 0005E ADDL3 #32767, DATA, DATA+4
                                18 AE 04 AE 9E 00063 MOVL #2, ARGVST
                                10 AE 9F 00068 MOVAB DATA, ARGVST+4
                                00000000G 00 02 FB 0006F MOVAB FLAGS, ARGVST+8
                                52 50 D0 00076 PUSHAB ARGVST
                                09 52 E8 00079 PUSHAB GET_DATA
                                00000244 8F 52 D1 0007C CALLS #2, SYSS$CMKRNL
                                04 AE 9F 00085 2$: MOVL R0, STATUS
                                0C AE 9F 00088 BLBS STATUS, 2$
                                0000V CF 02 FB 0008B Cmpl STATUS, #580
                                BNEQ 3$
                                PUS AB FLAGS
                                PUSHAB DATA
                                CALLS #2, PRINT_DATA

```

SHOWERROR
V04-000

C 12
16-Sep-1984 01:24:33 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:35 [CLIUTL.SRC]SHOWERROR.B32:1

Page 6
(4)

01	52	D1	00090	C MPL	STATUS, #1	: 0272
	09	13	00093	BEQL	4\$:
00000000G	52	DD	00095 3\$:	PUSHL	STATUS	: 0273
00	01	FB	00097	CALLS	#1, LIB\$SIGNAL	:
		04	0009E 4\$:	RET		: 0276

; Routine Size: 159 bytes, Routine Base: \$CODE\$ + 0000


```

183 0277 1 ROUTINE get_data (data, flags) =
184 0278 2 BEGIN
185 0279 3
186 0280 3 LOCAL
187 0281 3     status,           ! Status return
188 0282 3     limit,           ! End-of-address limit
189 0283 3     scratch : REF $BLOCK, ! Pointer to scratch area
190 0284 3     ucb : REF $BLOCK,   ! UCB pointer
191 0285 3     ddb : REF $BLOCK;  ! DDB pointer
192 0286 3
193 0287 3 MAP
194 0288 3     data : REF VECTOR,  ! The passed argument is two longwords
195 0289 3     flags : REF $BLOCK; ! Flags longword
196 0290 3
197 0291 3 ! Set up the scratch area so that it can be addressed easily. Also, calculate
198 0292 3 ! a limit toward the end of the scratch area, so that we don't write beyond the
199 0293 3 ! area. Finally, set up STATUS as 1, to show that we still have room in the
200 0294 3 ! scratch area to store more data.
201 0295 3
202 0296 3 scratch = .data[0];    ! Point to beginning of scratch area
203 0297 3 limit = .data[1] - 256; ! Set the limit to be halfway in to
204 0298 3                       ! the last page of the scratch area.
205 0299 3
206 0300 3
207 0301 3 ! Lock the I/O data base. Upon return from the call to SCH$IOLCKR, the
208 0302 3 ! IPL will be 2, so that pagefaults are still allowed.
209 0303 3
210 0304 3 SCH$IOLCKR(.sch$gl_curpcb); ! Lock the I/O database
211 0305 3
212 0306 3
213 0307 3 ! For each DDB, examine each UCB associated with it, and see if the error
214 0308 3 ! count is non-zero. If so, or if all devices were requested, then store
215 0309 3 ! the pertinent data into the scratch area. If the scratch area is exhausted,
216 0310 3 ! then indicate this by setting STATUS = SS$_VASFULL.
217 0311 3
218 0312 3 status = IOC$SCAN_IODB(0, 0; ddb, ucb); ! Get to first UCB
219 0313 3 WHILE .status DO ! Loop thru all UCB's
220 0314 3 BEGIN
221 0315 3     IF NOT . $BLOCK[ucb[ucb$l_devchar], dev$u_mbx] ! Ignore mailboxes
222 0316 3     AND NOT .ucb[ucb$u_template] ! and template devices
223 0317 3     AND (.flags[show$u_full] OR ! If all desired, or
224 0318 3     .ucb[ucb$u_errcnt] NEQ 0) ! this one has errors
225 0319 3 THEN ! then get information
226 0320 3 BEGIN
227 0321 3     IF .scratch GEQA .limit
228 0322 3     THEN
229 0323 3 BEGIN
230 0324 3     status = ss$_vasfull;
231 0325 3     EXITLOOP
232 0326 3     END;
233 0327 3     ioc$cvl_devnam(20, ! Get device name, max this long
234 0328 3     scratch[d_t_name], ! put it here,
235 0329 3     -1, ! in standard display format
236 0330 3     .ucb; ! UCB is here
237 0331 3     scratch[d_l_devlen]); ! final length here
238 0332 3
239 0333 3 scratch[d_l_errcnt] = .ucb[ucb$u_errcnt];

```

```

: 240      0334      4      scratch = .scratch + d_k_length;      ' Get to next data block
: 241      0335      4      END;
: 242      0336      4      status = IOC$SCAN_IODB(.ddb, .ucb; ddb, ucb);
: 243      0337      4      END;
: 244      0338      4
: 245      0339      4      :
: 246      0340      4      : Now to clean up.  Unlock the I/O database, then lower the IPL
: 247      0341      4      : to zero.
: 248      0342      4
: 249      0343      4      SCH$IOUNLOCK(.sch$gl_curpcb);      ! Unlock I/O database
: 250      0344      4      SET_IPL(0);      ! Lower IPL
: 251      0345      4
: 252      0346      4      :
: 253      0347      4      : If status = 0, then the entire database has been scanned.
: 254      0348      4      :
: 255      0349      4      IF .status EQL 0
: 256      0350      4      THEN status = 1;
: 257      0351      4
: 258      0352      4      RETURN .status;      ! Return with status
: 259      0353      1      END;      ! End of GET_DATA

```

OFFC 0000 GET_DATA:

Address	OpCode	Operand 1	Operand 2	Instruction	Comment	Address
57	00000000G	00	9E 00002	MOVAB	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	0277
50	04	AC	DO 00009	MOVL	SCH\$GL CURPCB, R7	0296
52		60	DO 0000D	MOVL	DATA, R0	
56	04	A0	00000100	SUBL3	(R0), SCRATCH	0297
54		67	DO 00019	MOVL	#256, 4(R0), LIMIT	0304
		00	16 0001C	JSB	SCH\$IOLCKR	
		5A	7C 00022	CLRQ	R10	0312
		00	16 00024	JSB	IOC\$SCAN_IODB	
		53	DO 0002A	MOVL	R0, STATUS	0313
		42	53 E9 0002D	BLBC	STATUS, 4\$	
EF	3A	AA	04 E0 00030	BBS	#4, 58(UCB), 1\$	0315
EA	65	AA	05 E0 00035	BBS	#5, 101(UCB), 1\$	0316
06	08	BC	01 E0 0003A	BBS	#1, @FLAGS, 2\$	0317
		0082	CA B5 0003F	TSTW	130(UCB)	0318
		DF	13 00043	BEQL	1\$	
		56	52 D1 00045	CMPL	SCRATCH, LIMIT	0321
		07	1F 00048	BLSSU	3\$	
		53	8F 3C 0004A	MOVZWL	#580, STATUS	0324
		21	11 0004F	BRB	4\$	0323
		51	A2 9E 00051	MOVAB	12(SCRATCH), R1	0328
		55	5A DO 00055	MOVL	UCB, R5	0331
		54	01 CE 00058	MNEGL	#1, R4	
		50	14 DO 0005B	MOVL	#20, R0	
		00000000G	00 16 0005E	JSB	IOC\$CVT DEVNAM	
		82	51 DO 00064	MOVL	R1, (SCRATCH)+	
	04	A2	0082 CA 3C 00067	MOVZWL	130(UCB), 4(SCRATCH)	0333
		52	1D C0 0006D	ADDL2	#29, SCRATCH	0334
		B2	11 00070	BRB	1\$	0336
		54	67 DO 00072	MOVL	SCH\$GL CURPCB, R4	0343
		00000000G	00 16 00075	JSB	SCH\$IOUNLOCK	

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21
6

SHOWERROR
V04-000

F 12
16-Sep-1984 01:24:33 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:35 [CLIUTL.SRC]SHOWERROR.B32;1

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S
V

12	00	DA	0007B	MTPR	#0, #18	: 0344
	53	D5	0007E	TSTL	STATUS	: 0349
	03	12	00080	BNEQ	5\$: :
53	01	D0	00082	MOVL	#1, STATUS	: 0350
50	53	D0	00085	MOVL	STATUS, R0	: 0352
	04	00088		RET		: 0353

; Routine Size: 137 bytes, Routine Base: \$CODE\$ + 009F

0
0
7

```
261 0354 1 ROUTINE print_data (data, flags) : NOVALUE =
262 0355 2 BEGIN
263 0356 2
264 0357 2 MAP
265 0358 2     data : REF VECTOR,
266 0359 2     flags : REF $BBLOCK;
267 0360 2
268 0361 2 LOCAL
269 0362 2     scratch : REF $BBLOCK;           ! Pointer to scratch area
270 0363 2
271 0364 2 :
272 0365 2 : Set up the scratch area.
273 0366 2 :
274 0367 2 scratch = .data[0];           ! Scratch area begins here.
275 0368 2
276 0369 2 :
277 0370 2 : Check to see if there are any errors.  If not, go away.  Otherwise,
278 0371 2 : print a nice little heading.
279 0372 2 :
280 0373 2 IF NOT .flags[show$full]           ! If not a /FULL request
281 0374 2 AND .scratch[d_t_name] EQL 0       ! and no device errors
282 0375 2 AND .exe$gl_mchkerrs EQL 0      ! and no CPU errors
283 0376 2 AND .exe$gl_memerrs EQL 0      ! and no memory errors
284 0377 2 THEN
285 0378 2     BEGIN
286 0379 2     SIGNAL(show$_noerrors);
287 0380 2     RETURN;
288 0381 2     END;
289 0382 2
290 0383 2
291 0384 2 show$write_line(%ASCID 'Device      Error Count', 0);
292 0385 2
293 0386 2 :
294 0387 2 : Print CPU or memory errors, if there are any.
295 0388 2 :
296 0389 2 IF .exe$gl_mchkerrs NEQ 0
297 0390 2 OR .flags[show$full]
298 0391 2 THEN show$write_line(%ASCID '!21<CPU!> !6UW', %REF(.exe$gl_mchkerrs));
299 0392 2
300 0393 2 IF .exe$gl_memerrs NEQ 0
301 0394 2 OR .flags[show$full]
302 0395 2 THEN show$write_line(%ASCID '!21<MEMORY!> !6UW', %REF(.exe$gl_memerrs));
303 0396 2
304 0397 2 :
305 0398 2 : Loop thru the scratch area, taking the data off in the same way it was
306 0399 2 : stored.  This will continue until a segment is found which contains a
307 0400 2 : device name length of 0.
308 0401 2 :
309 0402 2 WHILE .scratch[d_l_devlen] NEQ 0
310 0403 2 DO
311 0404 2     BEGIN
312 0405 2     scratch[d_l_devlen] = .scratch[d_l_devlen] - 1;
313 0406 2     scratch[d_a_ptr] = scratch[d_t_name] + 1;
314 0407 2     show$write_line(%ASCID '!21<?AF!> !6UW',
315 0408 2         .scratch);
316 0409 2     scratch = .scratch + d_k_length;
317 0410 2     END;
```

: 318 0411 2
: 319 0412 2 RETURN;
: 320 0413 1 END;

! End of PRINT_DATA

```

.PSECT $SPLITS,NOWRT,NOEXE,2
20 20 20 20 20 20 20 20 20 65 63 69 76 65 44 0001C P.AAF: .ASCII \Device Error Count\
75 6F 43 20 72 6F 72 72 45 20 20 20 20 20 20 0002B
74 6E 0003A
010E0020 0003C P.AAE: .LONG 17694752
00000000' 00040 .ADDRESS P.AAF
55 36 21 20 20 20 3E 21 55 50 43 3C 31 32 21 00C44 P.AAH: .ASCII \!21<CPU!> !6UW\
57 00053
010E0010 00054 P.AAG: .LONG 17694736
00000000' 00058 .ADDRESS P.AAH
20 20 20 3E 21 59 52 4F 4D 45 4D 3C 31 32 21 0005C P.AAJ: .ASCII \!21<MEMORY!> !6UW\<0>
00 57 55 36 21 0006B
010E0013 00070 P.AAI: .LONG 17594739
00000000' 00074 .ADDRESS P.AAJ
55 36 21 20 20 20 3E 21 46 41 21 3C 31 32 21 00078 P.AAL: .ASCII \!21<!AF!> !6UW\
57 00087
010E0010 00088 P.AAK: .LONG 17694736
00000000' 0008C .ADDRESS P.AAL

```

.PSECT \$CODE\$,NOWRT,2

003C 00000 PRINT_DATA:

```

.WORD Save R2,R3,R4,R5
55 00000000G 00 9E 00002 MOVAB EXESGL_MCHKERRS, R5
54 00000000G 00 9E 00009 MOVAB EXESGL_MEMERRS, R4
53 00000000G 00 9E 00010 MOVAB SHOW$WRITE_LINE, R3
5E 04 C2 00017 SUBL2 #4, SP
1B 08 BC 01 E0 0001A MOVL @DATA, SCRATCH
0C A2 95 00023 BBS #1, @FLAGS, 1$
16 12 00026 TSTB 12(SCRATCH)
65 D5 00028 BNEQ 1$
12 12 0002A TSTL EXESGL_MCHKERRS
64 D5 0002C TSTL EXESGL_MEMERRS
0E 12 0002E BNEQ 1$
00000000G 8F DD 00030 PUSHL #SHOW$ NOERRORS
00000000G 01 FB 00033 CALLS #1, LIB$SIGNAL
04 0003D RET
7E D4 0003E 1$: CLRL -(SP)
0000' CF 9F 00040 PUSHAB P.AAE
63 02 FB 00044 CALLS #2, SHOW$WRITE_LINE
50 65 D0 00047 MOVL EXESGL_MCHKERRS, R0
0C 08 BC 05 12 0004A BNEQ 2$
6E 01 E1 0004C BBC #1, @FLAGS, 3$
50 D0 00051 2$: MOVL R0, (SP)
5E DD 00054 PUSHL SP
0000' CF 9F 00056 PUSHAB P.AAG
63 02 FB 0005A CALLS #2, SHOW$WRITE_LINE

```

0354
0367
0373
0374
0375
0376
0379
0378
0384
0389
0390
0391

SHOWERROR
V04-000

I 12
16-Sep-1984 01:24:33 YAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:35 [CLIUTL.SRC]SHOWERROR.B32:1

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(6)

	50		64	D0	0005D	3\$:	MOVL	EXE\$GL_MEMERRS, R0		: 0393
			05	12	00060		BNEQ	4\$: 0394
0C	08	BC	01	E1	00062		BBC	#1, @FLAGS, 5\$: 0395
		6E	50	D0	00067	4\$:	MOVL	R0, (SP)		: 0402
			5E	DD	0006A		PUSHL	SP		: 0405
			CF	9F	0006C		PUSHAB	P.AAI		: 0406
	63		02	FB	00070		CALLS	#2, SHOW\$WRITE_LINE		: 0407
			62	D5	00073	5\$:	TSTL	(SCRATCH)		: 0409
			15	13	00075		BEQL	6\$: 0402
			62	D7	00077		DECL	(SCRATCH)		: 0405
	04	A2	0D	A2	9E	00079	MOVAB	13(R2), 4(SCRATCH)		: 0406
				52	DD	0007E	PUSHL	SCRATCH		: 0408
				CF	9F	00080	PUSHAB	P.AAK		: 0407
	63		02	FB	00084		CALLS	#2, SHOW\$WRITE_LINE		: 0409
			52	21	C0	00087	ADDL2	#3\$, SCRATCH		: 0402
				E7	11	0008A	BRB	5\$: 0413
				04	0008C	6\$:	RET			: 0413

; Routine Size: 141 bytes, Routine Base: \$CODE\$ + 0128

: 322 0414 1 END
: 323 0415 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$PLITS	144	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODE\$	437	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	20	0	1000	00.01.8

COMMAND QUALIFIERS

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

: Size: 437 code + 144 data bytes
: Run Time: 00:10.5
: Elapsed Time: 00:29.9
: Lines/CPU Min: 2366
: Lexemes/CPU-Min: 16106
: Memory Used: 95 pages
: Compilation Complete

