

[illegible]

```

LL               IIIII
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                II
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LLLLLLLLLLLL    IIIII
LLLLLLLLLLLL    IIIII

SSSSSSSSS
SSSSSSSSS
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SSSSSSSSS
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```



```
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 *  
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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,
68 0165 1                      REGISTER = 10,
69 0166 1                      REGISTER = 11,
70 0167 1                      REGISTER = 10),
71 0168 1     CVTDEV = JSB (REGISTER = 0,
72 0169 1                      REGISTER = 1,
73 0170 1                      REGISTER = 4,
74 0171 1                      REGISTER = 5,
75 0172 1                      REGISTER = 1);
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     SHOW$V_BRIEF      =      0, 0, 1, 0%,      ! /BRIEF
84 0181 1     SHOW$V_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  | Table of contents
: 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$cvt_devnam : CVTDEV,
: 123      0219 1  |     sch$iolockr : IOLOCK,
: 124      0220 1  |     sch$iounlock : IOLOCK;

```

```

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

```


										.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, SCSSGA_LOCALSB	
										.EXTRN	EXESGL_MCHKERRS	
										.EXTRN	EXESGL_MEMERRS, IOC\$GL_DEVLIST	
										.EXTRN	SCH\$GL_CURPCB, CLISP\$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	
										.ENTRY	SHOW\$ERRORS, Save R2,R3	0221
										MOVAB	CLISP\$PRESENT, R3	
										SUBL2	#28, SP	
										PUSHAB	P.AAA	0233
04	AE	01				63		01	FB	00010		
						00		50	FO	00013		
						0000		CF	9F	00019		
						0000		01	FB	0001D		
04	AE	01				63		50	FO	00020		
						01		52	E8	0003C		
						08	AE	9F	00026			
			04	AE	8000	8F	3C	00029				
						04	AE	9F	0002F			
			00000000G	00		02	FB	00032				
				52		50	DO	00039				
				11		52	E8	0003C				
						52	DD	0003F				0242
						7E	DD	00041				
						8F	DD	00043				
			007812F2	03	FB	00049						
OC	AE	00000000G	00			8F	C1	00050	1\$:			0243
		08	AE	00007FFF	02	DO	0005A					0248
		10	AE		02	DO	0005A					
		14	AE	08	AE	9E	0005E					0249
		18	AE	04	AE	9E	00063					0250
				10	AE	9F	00068					0252
				0000V	CF	9F	0006B					
		00000000G	00		02	FB	0006F					
			52		50	DO	00076					
			09		52	E8	00079					
		00000244	8F		52	D1	0007C					0255
					10	12	00083					
				04	AE	9F	00085	2\$:				0266
				OC	AE	9F	00088					
		0000V	CF		02	FB	0008B					
										CALLS	#2, PRINT_DATA	

SHOWERROR
V04-000

C 12
16-Sep-1984 01:24:33
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01	52	D1	00090	CMPL	STATUS, #1	: 0272
	09	13	00093	BEQL	4\$	: 0273
00000000G 00	52	DD	00095 3\$:	PUSHL	STATUS	: 0276
	01	FB	00097	CALLS	#1, LIB\$SIGNAL	
	04	0009E	4\$:	RET		

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


```
183 0277 1 ROUTINE get_data (data, flags) =
184 0278 2 BEGIN
185 0279 2
186 0280 2 LOCAL
187 0281 2     status,           ! Status return
188 0282 2     limit,          ! End-of-address limit
189 0283 2     scratch : REF $BBLOCK, ! Pointer to scratch area
190 0284 2     ucb : REF $BBLOCK,    ! UCB pointer
191 0285 2     ddb : REF $BBLOCK;    ! DDB pointer
192 0286 2
193 0287 2 MAP
194 0288 2     data : REF VECTOR,      ! The passed argument is two longwords
195 0289 2     flags : REF $BBLOCK; ! Flags longword
196 0290 2
197 0291 2 ! Set up the scratch area so that it can be addressed easily. Also, calculate
198 0292 2 ! a limit toward the end of the scratch area, so that we don't write beyond the
199 0293 2 ! area. Finally, set up STATUS as 1, to show that we still have room in the
200 0294 2 ! scratch area to store more data.
201 0295 2
202 0296 2 scratch = .data[0];      ! Point to beginning of scratch area
203 0297 2 limit = .data[1] - 256; ! Set the limit to be halfway in to
204 0298 2                          ! the last page of the scratch area.
205 0299 2
206 0300 2
207 0301 2 ! Lock the I/O data base. Upon return from the call to SCH$IOLOCKR, the
208 0302 2 ! IPL will be 2, so that pagefaults are still allowed.
209 0303 2
210 0304 2 SCH$IOLOCKR(.sch$gl_curpcb); ! Lock the I/O database
211 0305 2
212 0306 2
213 0307 2 ! For each DDB, examine each UCB associated with it, and see if the error
214 0308 2 ! count is non-zero. If so, or if all devices were requested, then store
215 0309 2 ! the pertinent data into the scratch area. If the scratch area is exhausted,
216 0310 2 ! then indicate this by setting STATUS = SS$_VASFULL.
217 0311 2
218 0312 2 status = IOC$SCAN_IODB(0, 0; ddb, ucb); ! Get to first UCB
219 0313 2 WHILE .status DO ! Loop thru all UCB's
220 0314 3 BEGIN
221 0315 3     IF NOT . $BBLOCK[ucb[ucb$l_devchar], dev$v_mbx] ! Ignore mailboxes
222 0316 3     AND NOT .ucb[ucb$v_template] ! and template devices
223 0317 4     AND (.flags[show$v_full] OR ! If all desired, or
224 0318 4     .ucb[ucb$w_errcnt] NEQ 0) ! this one has errors
225 0319 3     THEN ! then get information
226 0320 4     BEGIN
227 0321 4         IF .scratch GEQA .limit
228 0322 4         THEN
229 0323 5             BEGIN
230 0324 5                 status = ss$_vasfull;
231 0325 5                 EXITLOOP
232 0326 4             END;
233 0327 4             ioc$cvl_devnam(20, ! Get device name, max this long
234 0328 4                 scratch[d_t_name], ! put it here,
235 0329 4                 -1, ! in standard display format
236 0330 4                 .ucb; ! UCB is here
237 0331 4                 scratch[d_l_devlen]); ! final length here
238 0332 4
239 0333 4 scratch[d_l_errcnt] = .ucb[ucb$w_errcnt];
```

```
240      scratch = .scratch + d_k_length;      ! Get to next data block
241      END;
242      status = IOC$SCAN_IODB(.ddb, .ucb; ddb, ucb);
243      END;
244
245      !
246      ! Now to clean up.  Unlock the I/O database, then lower the IPL
247      ! to zero.
248
249      SCH$IOUNLOCK(.sch$gl_curpcb);      ! Unlock I/O database
250      SET_IPL(0);      ! Lower IPL
251
252      !
253      ! If status = 0, then the entire database has been scanned.
254
255      IF .status EQL 0
256      THEN status = 1;
257
258      RETURN .status;      ! Return with status
259      END;      ! End of GET_DATA
```

OFFC 00000 GET_DATA:

		57	00000000G	00	9E	00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	0277
		50	04	AC	D0	00009	MOVAB	SCH\$GL_CURPCB, R7	
		52		60	D0	0000D	MOVL	DATA, R0	0296
56	04	A0	00000100	8F	C3	00010	MOVL	(R0), SCRATCH	
		54		67	D0	00019	SUBL3	#256, 4(R0), LIMIT	0297
			00000000G	00	16	0001C	MOVL	SCH\$GL_CURPCB, R4	0304
				5A	7C	00022	JSB	SCH\$IOLOCKR	
			00000000G	00	16	00024	CLRQ	R10	0312
		53		50	D0	0002A	JSB	IOC\$SCAN_IODB	
		42		53	E9	0002D	MOVL	R0, STATUS	
EF	3A	AA		04	E0	00030	BLBC	STATUS, 4\$	0313
EA	65	AA		05	E0	00035	BBS	#4, 58(UCB), 1\$	0315
06	08	BC		01	E0	0003A	BBS	#5, 101(UCB), 1\$	0316
			0082	01	E0	0003A	BBS	#1, @FLAGS, 2\$	0317
				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	0244	8F	3C	0004A	MOVZWL	#580, STATUS	0324
				21	11	0004F	BRB	4\$	0323
		51	0C	A2	9E	00051	MOVAB	12(SCRATCH), R1	0328
		55		5A	D0	00055	MOVL	UCB, R5	0331
		54		01	CE	00058	MNEGL	#1, R4	
		50		14	D0	0005B	MOVL	#20, R0	
			00000000G	00	16	0005E	JSB	IOC\$CVT_DEVNAM	
		82		51	D0	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	D0	00072	MOVL	SCH\$GL_CURPCB, R4	0343
			00000000G	00	16	00075	JSB	SCH\$IOUNLOCK	

SHOWERROR
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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

```
261 0354 1 ROUTINE print_data (data, flags) : NOVALUE =
262 0355 2 BEGIN
263 0356 3
264 0357 4 MAP
265 0358 5     data : REF VECTOR,
266 0359 6     flags : REF $BBLOCK;
267 0360 7
268 0361 8 LOCAL
269 0362 9     scratch : REF $BBLOCK;           ! Pointer to scratch area
270 0363 10
271 0364 11     ! Set up the scratch area.
272 0365 12
273 0366 13     scratch = .data[0];           ! Scratch area begins here.
274 0367 14
275 0368 15
276 0369 16
277 0370 17     ! Check to see if there are any errors. If not, go away. Otherwise,
278 0371 18     ! print a nice little heading.
279 0372 19
280 0373 20     IF NOT .flags[show$v_full]      ! If not a /FULL request
281 0374 21     AND .scratch[d_t_name] EQL 0 ! and no device errors
282 0375 22     AND .exe$gl_mchkerrs EQL 0  ! and no CPU errors
283 0376 23     AND .exe$gl_memerrs EQL 0    ! and no memory errors
284 0377 24     THEN
285 0378 25         BEGIN
286 0379 26         SIGNAL(show$_noerrors);
287 0380 27         RETURN;
288 0381 28         END;
289 0382 29
290 0383 30
291 0384 31     show$write_line(%ASCII 'Device           Error Count', 0);
292 0385 32
293 0386 33     !
294 0387 34     ! Print CPU or memory errors, if there are any.
295 0388 35
296 0389 36     IF .exe$gl_mchkerrs NEQ 0
297 0390 37     OR .flags[show$v_full]
298 0391 38     THEN show$write_line(%ASCII '!21<CPU!>    !6UW', %REF(.exe$gl_mchkerrs));
299 0392 39
300 0393 40     IF .exe$gl_memerrs NEQ 0
301 0394 41     OR .flags[show$v_full]
302 0395 42     THEN show$write_line(%ASCII '!21<MEMORY!>    !6UW', %REF(.exe$gl_memerrs));
303 0396 43
304 0397 44     !
305 0398 45     ! Loop thru the scratch area, taking the data off in the same way it was
306 0399 46     ! stored. This will continue until a segment is found which contains a
307 0400 47     ! device name length of 0.
308 0401 48
309 0402 49     WHILE .scratch[d_l_devlen] NEQ 0
310 0403 50     DO
311 0404 51         BEGIN
312 0405 52         scratch[d_l_devlen] = .scratch[d_l_devlen] - 1;
313 0406 53         scratch[d_a_ptr] = scratch[d_t_name] + 1;
314 0407 54         show$write_line(%ASCII '!21<?AF!>    !6UW',
315 0408 55             .scratch);
316 0409 56         scratch = .scratch + d_k_length;
317 0410 57     END;
```


SHOWERROR
V04-000

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: 318
: 319
: 320
0411 2
0412 2 RETURN;
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 17694739
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:
55 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5 : 0354
54 00000000G 00 9E 00009 MOVAB EX$GGL_MCHKERRS, R5
53 00000000G 00 9E 00010 MOVAB EX$GGL_MEMERRS, R4
5E 04 C2 00017 MOVAB SHOW$WRITE_LINE, R3
52 04 BC D0 0001A SUBL2 #4, SP
1B 08 BC 01 E0 0001E MOVL @DATA, SCRATCH : 0367
0C A2 95 00023 BBS #1, @FLAGS, 1$ : 0373
16 12 00026 TSTB 12(SCRATCH) : 0374
65 D5 00028 BNEQ 1$
12 12 0002A TSTL EX$GGL_MCHKERRS : 0375
64 D5 0002C BNEQ 1$
0E 12 0002E TSTL EX$GGL_MEMERRS : 0376
00000000G 8F DD 00030 BNEQ 1$
00000000G 01 FB 00033 PUSHL #SHOW$ NOERRORS : 0379
04 0003D CALLS #1, LIB$SIGNAL : 0378
7E D4 0003E 1$: CLRL -(SP) : 0384
CF 9F 00040 PUSHAB P.AAE
63 02 FB 00044 CALLS #2, SHOW$WRITE_LINE
50 65 D0 00047 MOVL EX$GGL_MCHKERRS, R0 : 0389
05 12 0004A BNEQ 2$
0C 08 BC 01 E1 0004C BBC #1, @FLAGS, 3$ : 0390
6E 50 D0 00051 2$: MOVL R0, (SP) : 0391
0000' 5E DD 00054 PUSHL SP
63 0000' CF 9F 00056 PUSHAB P.AAG
02 FB 0005A CALLS #2, SHOW$WRITE_LINE
```

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		50		64	D0	0005D	3\$:	MOVL	EXESGL_MEMERRS, R0		0393
				05	12	00060		BNEQ	4\$		
0C	08	BC		01	E1	00062		BBC	#1, @FLAGS, 5\$		0394
		6E		50	D0	00067	4\$:	MOVL	R0, (SP)		0395
				5E	DD	0006A		PUSHL	SP		
			0000'	CF	9F	0006C		PUSHAB	P,AAI		
		63		02	FB	00070		CALLS	#2, SHOW\$WRITE_LINE		
				62	D5	00073	5\$:	TSTL	(SCRATCH)		0402
				15	13	00075		BEQL	6\$		
				62	D7	00077		DECL	(SCRATCH)		0405
	04	A2	0D	A2	9E	00079		MOVAB	13(R2), 4(SCRATCH)		0406
				52	DD	0007E		PUSHL	SCRATCH		0408
			0000'	CF	9F	00080		PUSHAB	P,AAK		0407
		63		02	FB	00084		CALLS	#2, SHOW\$WRITE_LINE		
		52		21	C0	00087		ADDL2	#33, SCRATCH		0409
				E7	11	0008A		BRB	5\$		0402
				04	0008C	6\$:		RET			0413

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

SHOWERROR
V04-000

J 12
16-Sep-1984 01:24:33
14-Sep-1984 12:09:35

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SHOWERROR.B32;1

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: 322 0414 1 END
: 323 0415 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	144	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	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

0056 AH-BT13A-SE
VAX/VMS V4.0

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