

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      MM      MM      AAAAAA  IIIIII  NN      NN
SSSSSSSS HH      HH      000000  WW      WW      MM      MM      AAAAAA  IIIIII  NN      NN
SS      HH      HH      00      00  WW      WW      MMMM  MMMM  AA      AA  II      NN      NN
SS      HH      HH      00      00  WW      WW      MMMM  MMMM  AA      AA  II      NN      NN
SS      HH      HH      00      00  WW      WW      MM      MM      AA      AA  II      NNNN  NN
SS      HH      HH      00      00  WW      WW      MM      MM      AA      AA  II      NNNN  NN
SSSSSSS  HHHHHHHHHH  00      00  WW      WW      MM      MM      AA      AA  II      NN  NN  NN
SSSSSSS  HHHHHHHHHH  00      00  WW      WW      MM      MM      AA      AA  II      NN  NN  NN
SS      HH      HH      00      00  WW      WW      MM      MM      AAAAAAAAAA  II      NN      NNNN
SS      HH      HH      00      00  WW      WW      MM      MM      AAAAAAAAAA  II      NN      NNNN
SS      HH      HH      00      00  WWWW  WWWW  MM      MM      AA      AA  II      NN      NN
SS      HH      HH      00      00  WWWW  WWWW  MM      MM      AA      AA  II      NN      NN
SSSSSSSS HH      HH      000000  WW      WW      MM      MM      AA      AA  IIIIII  NN      NN
SSSSSSSS HH      HH      000000  WW      WW      MM      MM      AA      AA  IIIIII  NN      NN

```

```

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
LLLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS

```

```
1 0001 0 MODULE showmain (IDENT='V04-000',
2 0002 0     MAIN=show$start,
3 0003 0     ADDRESSING MODE(EXTERNAL=GENERAL,
4 0004 0     NOEXTERNAL=LONG_RELATIVE)
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1
9 0009 1 .....
10 0010 1 *
11 0011 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
12 0012 1 *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
13 0013 1 *  ALL RIGHTS RESERVED.
14 0014 1 *
15 0015 1 *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
16 0016 1 *  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
17 0017 1 *  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
18 0018 1 *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
19 0019 1 *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
20 0020 1 *  TRANSFERRED.
21 0021 1 *
22 0022 1 *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
23 0023 1 *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
24 0024 1 *  CORPORATION.
25 0025 1 *
26 0026 1 *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
27 0027 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
28 0028 1 *
29 0029 1 *
30 0030 1 .....
31 0031 1
32 0032 1
33 0033 1 **
34 0034 1
35 0035 1 FACILITY: SHOW utility
36 0036 1
37 0037 1 ABSTRACT:
38 0038 1     This module contains the command processing and dispatch routines.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1     VAX native, user mode.
42 0042 1
43 0043 1 AUTHOR: Gerry Smith          CREATION DATE: 25-Jun-1982
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1     V03-005 AEW0002          Anne E. Warner          10-Jul-1984
48 0048 1     Remove the qualifier MSCP as this module is now called
49 0049 1     from SHOW$DEVICES as SHOW DEVICES/SERVED
50 0050 1
51 0051 1     V03-004 AEW0001          Anne E. Warner          12-Apr-1984
52 0052 1     Add the qualifier MSCP which enables the branch to
53 0053 1     the module SHOW$MSCP which shows information on mass
54 0054 1     served devices.
55 0055 1
56 0056 1     V03-003 MCN0147         Maria del C. Nasr          04-Feb-1984
57 0057 1     Take out reference to external routine FILE_ERROR, since
```

: 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 :--

it is not used.

V03-002 GAS0174 Gerry Smith 25-Aug-1983  
Split the I/O routines into a different module, SHOWIO.  
Also added SHOW BROADCAST.

V03-001 GAS0154 Gerry Smith 7-Jul-1983  
Add SHOW AUDIT.

```

: 69      0068 1 LIBRARY 'SYS$LIBRARY:STARLET';           ! VAX/VMS common definitions
: 70      0069 1 REQUIRE 'SRC$:SHOWDEF';                ! SHOW common definitions
: 71      0168 1
: 72      0169 1
: 73      0170 1
: 74      0171 1
: 75      0172 1 Macro to set up two associated tables. The first table is a list of
: 76      0173 1 descriptor addresses. These descriptors contain the option names.
: 77      0174 1 The second table is a corresponding list of addresses of option routines.
: 78      0175 1
: 79      0176 1 If a new option is added to SET or SHOW, all that is required in this
: 80      0177 1 module is to add one line of code, the option name, e.g. WORKING_SET.
: 81      0178 1 Then, the name of the global routine that is dispatched to from this
: 82      0179 1 routine will be named SHOW$WORKING_SET.
: 83      0180 1 MACRO
: 84      0181 1
: 85      0182 1 option_name [option] = %EXACTSTRING(4, 0, option)%,
: 86      0183 1
: 87      0184 1 option_address [option] = %NAME(%STRING('show$', %STRING(option)))%,
: 88      0185 1
: 89      M 0186 1 make_table (name) =
: 90      M 0187 1 [LITERAL %NAME(%STRING(name, 'table length')) = %LENGTH - 1;
: 91      M 0188 1 EXTERNAL ROUTINE option_address(%REMAINING);
: 92      M 0189 1 OWN
: 93      M 0190 1 %NAME(%STRING(name, 'option')) : VECTOR[%LENGTH - 1]
: 94      M 0191 1 INITIAL (option_name(%REMAINING)),
: 95      M 0192 1
: 96      M 0193 1 %NAME(%STRING(name, 'routine')) : VECTOR[%LENGTH - 1]
: 97      0194 1 INITIAL (option_address(%REMAINING));%,
: 98      0195 1

```

```
100      0196 1 FORWARD ROUTINE
101      0197 1   show$start,
102      0198 1   handler;
103      0199 1
104      0200 1 EXTERNAL ROUTINE
105      0201 1   open_output : NOVALUE,
106      0202 1   show$write_line : NOVALUE,
107      0203 1   show$print_line : NOVALUE,
108      0204 1   cli$get_value,
109      0205 1   cli$present;
110      0206 1
111      0207 1 GLOBAL show$exit_status : $BLOCK[4]
112      0208 1   INITIAL(1);
113      0209 1
114      0210 1
115      0211 1   ; Set up a table of all options, and another table pointing to the address
116      0212 1   ; of the routine for each option.
117      0213 1
118      0214 1
119      P 0215 1 make_table (show,
120      P P 0216 1   accounting,
121      P P 0217 1   audit,
122      P P 0218 1   broadcast,
123      P P 0219 1   devices,
124      P P 0220 1   errors,
125      P P 0221 1   logical,
126      P P 0222 1   magtape,
127      P P 0223 1   memory,
128      P P 0224 1   network,
129      P P 0225 1   printer,
130      P P 0226 1   process,
131      P P 0227 1   rms default,
132      P P 0228 1   system,
133      P P 0229 1   terminal,
134      P 0230 1   users,
135      0231 1   working_set);
136      0232 1
137      0233 1
```

```

139 0234 1 ROUTINE show$start =
140 0235 2 BEGIN
141 0236 2
142 0237 2 :---
143 0238 2
144 0239 2 : This is the main program. It gathers all the command inputs, and then
145 0240 2 : dispatches to the appropriate routines.
146 0241 2
147 0242 2 :---
148 0243 2
149 0244 2 LOCAL
150 0245 2     status,
151 0246 2     option : $BBLOCK[dsc$c_s_bln];
152 0247 2
153 0248 2 ENABLE handler;                ! Enable the condition handler
154 0249 2
155 0250 2 :
156 0251 2 : Open and connect to the output file.
157 0252 2 :
158 0253 2 open_output();
159 0254 2
160 0255 2 :
161 0256 2 :
162 0257 2 : Interrogate the CLI to determine which option one was requested, and
163 0258 2 : dispatch to the appropriate routine.
164 0259 2 :
165 0260 2 $init_dyndesc(option);
166 0261 2
167 0262 3 IF NOT (status = cli$get value(%ASCII 'OPTION', option))
168 0263 2 THEN SIGNAL_STOP(.status);
169 0264 2
170 0265 2 option[dsc$w_length] = MINU (.option[dsc$w_length], 4);
171 0266 2
172 0267 2 INCR index FROM 0 TO show_table_length - 1 DO
173 0268 3 BEGIN
174 0269 3     IF CH$EQL(.option[dsc$w_length], .option[dsc$a_pointer],
175 0270 3         .option[dsc$w_length], show_option[.index])
176 0271 3     THEN
177 0272 4         BEGIN
178 0273 4             (.show_routine[.index])();
179 0274 4         EXITLOOP
180 0275 3     END;
181 0276 2 END;
182 0277 2
183 0278 2 RETURN .show$exit_status OR sts$m_inhib_msg;    ! Exit with no message
184 0279 1 END;

```

```

.TITLE SHOWMAIN
.IDENT \V04-000\

.PSECT $PLITS,NOWRT,NOEXE,2

00 00 4E 4F 49 54 50 4F 0000 P.AAB: .ASCII \OPTION\<0><0>
010E0006 00008 P.AAA: .LONG 17694726
00000000' 0000C .ADDRESS P.AAB

```





00000000G	00	02	FB	00023	CALLS	#2, CLISGET_VALUE	
	09	50	EB	0002A	BLBS	STATUS, 1\$	
		50	DD	0002D	PUSHL	STATUS	0263
00000000G	00	01	FB	0002F	CALLS	#1, LIB\$STOP	
	50	6E	3C	00036	1\$: MOVZWL	OPTION, R0	0265
	04	50	B1	00039	CMPW	R0, #4	
		03	7B	0003C	BLEQU	2\$	
	50	04	D0	0003E	MOVL	#4, R0	
	6E	50	B0	00041	2\$: MOVW	R0, OPTION	
		54	D4	00044	CLRL	INDEX	0269
		44	DF	00046	3\$: PUSHAL	SHOW OPTION[INDEX]	0270
9E	0A	BE	04	AE	29	0004D	
		0D	12	00053	BNEQ	4\$	
		50	00000000'EF	44	D0	00055	
		60	00	FB	0005D	CALLS	#0, (R0)
		04	11	00060	BRB	5\$	0272
EO		54	0F	F3	00062	4\$: AOBLEQ	0267
50	00000000'	EF	10000000	8F	C9	00066	5\$: BISL3
				04	00072	RET	0278
				0000	00073	6\$: .WORD	0279
				7E	D4	00075	Save nothing
				5E	DD	00077	CLRL
				AC	7D	00079	-(SP)
00000000V	7E	04	AC	7D	00079	PUSHL	SP
	EF		03	FB	0007D	MOVQ	4(AP), -(SP)
			04	00084	CALLS	#3, HANDLER	0235
					RET		

; Routine Size: 133 bytes, Routine Base: \$CODE\$ + 0000

```
186 0280 1 ROUTINE handler (sigargs, mechargs) =  
187 0281 2 BEGIN  
188 0282 3  
189 0283 4 :---  
190 0284 5 :  
191 0285 6 : This routine is a condition handler established by the main  
192 0286 7 : routine. It saves the most severe condition for the exit status.  
193 0287 8 :  
194 0288 9 :---  
195 0289 10  
196 0290 11 MAP  
197 0291 12 sigargs : REF $BLOCK,  
198 0292 13 mechargs : REF $BLOCK;  
199 0293 14  
200 0294 15 BIND  
201 0295 16 signame = sigargs[chf$l_sig_name] : $BLOCK; ! Name of signal  
202 0296 17  
203 0297 18 IF .show$exit_status EQL 1 ! If no errors yet, use  
204 0298 19 THEN show$exit_status = .signame; ! this one.  
205 0299 20  
206 0300 21 IF NOT .signame ! If an error signal  
207 0301 22 AND .signame[sts$v_severity] ! and severity is worse  
208 0302 23 GTRU . $BLOCK[show$exit_status, sts$v_severity] ! than current saved severity  
209 0303 24 THEN show$exit_status = .signame; ! then save it for exit  
210 0304 25  
211 0305 26 RETURN ss$resignal; ! Resignal to get message  
212 0306 27 END;
```

			0004 0000	HANDLER:	.WORD	Save R2		0280
		52 00000000'	EF 9E 00002		MOVAB	SHOW\$EXIT_STATUS, R2		
	50	04 AC	04 C1 00009		ADDL3	#4, SIGARGS, R0		0294
		01	62 D1 0000E		CMPL	SHOW\$EXIT_STATUS, #1		0297
		62	03 12 00011		BNEQ	1\$		
		62	60 D0 00013		MOVL	(R0), SHOW\$EXIT_STATUS		0298
		0F	60 E8 00016	1\$:	BLBS	(R0), 2\$		0300
51	62	03	00 EF 00019		EXTZV	#0, #3, SHOW\$EXIT_STATUS, R1		0302
51	60	03	00 ED 0001E		CMPIV	#0, #3, (R0), R1		
		62	03 1B 00023		BLEQU	2\$		
		62	60 D0 00025		MOVL	(R0), SHOW\$EXIT_STATUS		0303
		50 0918	8F 3C 00028	2\$:	MOVZWL	#2328, R0		0305
			04 0002D		RET			0306

: Routine Size: 46 bytes, Routine Base: \$CODE\$ + 0085

: 214 0307 1 END  
: 215 0308 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	4	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	128	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	16	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	179	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Symbols -----		Pages Mapped	Processing Time
	Total	Loaded Percent		
_S255\$DUA28:[SYSLIB]STARLET.L32;1	9776	23 0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:SHOWMAIN/OBJ=OBJ\$:SHOWMAIN MSRCS:SHOWMAIN/UPDATE=(ENHS:SHOWMAIN)

: Size: 179 code + 148 data bytes  
 : Run Time: 00:06.6  
 : Elapsed Time: 00:24.3  
 : Lines/CPU Min: 2808  
 : Lexemes/CPU-Min: 24866  
 : Memory Used: 69 pages  
 : Compilation Complete

This image displays a grid of 100 terminal window screenshots, arranged in 10 rows and 10 columns. Each window shows a different system utility or diagnostic tool. The most prominent and clearly legible windows include:

- SHOWTERM LIS**: Located in the upper right quadrant, showing terminal status information.
- SHOWMISC LIS**: Located in the middle left, showing miscellaneous system information.
- SHOWPROC LIS**: Located in the middle center, showing process status.
- SHOWSYS LIS**: Located in the middle right, showing system status.
- SHOWMAIN LIS**: Located in the lower middle left, showing main system information.
- SHOWMSCP LIS**: Located in the lower middle center, showing message control panel status.
- SHOWMSG LIS**: Located in the lower middle right, showing message status.
- SHOWQUE LIS**: Located in the lower right, showing queue status.

The remaining windows in the grid show various other system utilities, including file listings, directory structures, and system configuration details, though they are less legible due to the image's resolution and the density of the grid.