

```
SSSSSSSSSSSSS  MMM      MMM      GGGGGGGGGGGG  RRRRRRRRRRRR  TTTTTTTTTTTTTT  LLL
SSSSSSSSSSSSS  MMM      MMM      GGGGGGGGGGGG  RRRRRRRRRRRR  TTTTTTTTTTTTTT  LLL
SSSSSSSSSSSSS  MMM      MMM      GGGGGGGGGGGG  RRRRRRRRRRRR  TTTTTTTTTTTTTT  LLL
SSS            MMMMMM  MMMMMM  GGG            RRR      RRR      TTT      LLL
SSS            MMMMMM  MMMMMM  GGG            RRR      RRR      TTT      LLL
SSS            MMMMMM  MMMMMM  GGG            RRR      RRR      TTT      LLL
SSS            MMM      MMM      GGG            RRR      RRR      TTT      LLL
SSS            MMM      MMM      GGG            RRR      RRR      TTT      LLL
SSS            MMM      MMM      GGG            RRR      RRR      TTT      LLL
SSS            MMM      MMM      GGG            RRR      RRR      TTT      LLL
SSSSSSSSSSS    MMM      MMM      GGG            RRRRRRRRRRRR  TTT      LLL
SSSSSSSSSSS    MMM      MMM      GGG            RRRRRRRRRRRR  TTT      LLL
SSSSSSSSSSS    MMM      MMM      GGG            RRRRRRRRRRRR  TTT      LLL
SSS            SSS      MMM      GGG      GGGGGGGGGG  RRR      RRR      TTT      LLL
SSS            SSS      MMM      GGG      GGGGGGGGGG  RRR      RRR      TTT      LLL
SSS            SSS      MMM      GGG      GGGGGGGGGG  RRR      RRR      TTT      LLL
SSS            SSS      MMM      GGG      GGG      GGG  RRR      RRR      TTT      LLL
SSS            SSS      MMM      GGG      GGG      GGG  RRR      RRR      TTT      LLL
SSS            SSS      MMM      GGG      GGG      GGG  RRR      RRR      TTT      LLL
SSS            SSS      MMM      GGG      GGG      GGG  RRR      RRR      TTT      LLL
SSSSSSSSSSSSS  MMM      MMM      GGGGGGGGGG  RRR      RRR      TTT      LLLLLLLLLLLLLLLL
SSSSSSSSSSSSS  MMM      MMM      GGGGGGGGGG  RRR      RRR      TTT      LLLLLLLLLLLLLLLL
SSSSSSSSSSSSS  MMM      MMM      GGGGGGGGGG  RRR      RRR      TTT      LLLLLLLLLLLLLLLL
```

```

SSSSSSSSS MM MM GGGGGGGG AAAAAA LL LL EEEEEEEEEEE SSSSSSSS CCCCCCCC
SSSSSSSSS MM MM GGGGGGGG AAAAAA LL LL EEEEEEEEEEE SSSSSSSS CCCCCCCC
SS SS MMMM MMMM GG AA AA LL LL EE EEEEEEEEEEE SS SSSSSSSS CC CCCCCC
SS SS MMMM MMMM GG AA AA LL LL EE EEEEEEEEEEE SS SSSSSSSS CC CCCCCC
SS SS MM MM MM GG AA AA LL LL EE EEEEEEEEEEE SS SSSSSSSS CC CCCCCC
SSSSSSS MM MM MM GG GG GGGGGG AAAAAAAAAA LL LL EEEEEEEEEEE SS SSSSSSSS CC CCCCCC
SSSSSSS MM MM MM GG GG GGGGGG AAAAAAAAAA LL LL EEEEEEEEEEE SS SSSSSSSS CC CCCCCC
SS SS MM MM MM GG GG GGGGGG AAAAAAAAAA LL LL EEEEEEEEEEE SS SSSSSSSS CC CCCCCC
SS SS MM MM MM GG GG GGGGGG AAAAAAAAAA LL LL EEEEEEEEEEE SS SSSSSSSS CC CCCCCC
SSSSSSSSS MM MM GGGGGG GGGGGG AA AA LLLLLLLLLL LLLLLLLLLL EEEEEEEEEEE SSSSSSSS CCCCCCCC
SSSSSSSSS MM MM GGGGGG GGGGGG AA AA LLLLLLLLLL LLLLLLLLLL EEEEEEEEEEE SSSSSSSS CCCCCCCC

LL LLLLLLLLLL IIIIIII SSSSSSSS
LL LLLLLLLLLL IIIIIII SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL II SSSSSSSS
LL LLLLLLLLLL IIIIIII SSSSSSSS
LL LLLLLLLLLL IIIIIII SSSSSSSS

```



```

0001 0 %TITLE 'SMGSALLOW_ESCAPE - Virtual Display -- Allow escape sequences'
0002 0 MODULE SMGSALLOW_ESCAPE (
0003 0 IDENT = '1-003' ! File: SMGDISCHA.B32 Edit: PLL1003
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY:      Screen Management
0033 1
0034 1 ABSTRACT:
0035 1
0036 1      This routine sets a bit in the DCB data base to allow escape
0037 1      sequences to be parsed and interpreted.
0038 1
0039 1
0040 1 ENVIRONMENT:  User mode, Shared library routines.
0041 1
0042 1 AUTHOR: P. Levesque, CREATION DATE: 23-Aug-1983
0043 1
0044 1 MODIFIED BY:
0045 1
0046 1 1-001 - Original. PLL 23-Aug-1983
0047 1 1-002 - Make this a single dollar entry point and add an optional
0048 1         device parameter. PLL
0049 1 1-003 - Remove optional device parameter. Feature was never implemented.
0050 1         Also, change the way the simulated device type is chosen.
0051 1         PLL 20-Mar-1984
0052 1 --
0053 1

```

```

55      0054 1 %SBTTL 'Declarations'
56      0055 1
57      0056 1 SWITCHES:
58      0057 1
59      0058 1
60      0059 1
61      0060 1 LINKAGES:
62      0061 1
63      0062 1 NONE
64      0063 1
65      0064 1 TABLE OF CONTENTS:
66      0065 1
67      0066 1
68      0067 1 FORWARD ROUTINE
69      0068 1
70      0069 1 SMG$ALLOW_ESCAPE; ! set allow escape bit
71      0070 1
72      0071 1
73      0072 1 ! INCLUDE FILES
74      0073 1
75      0074 1
76      0075 1 REQUIRE 'RTLIN:SMGPROLOG'; ! defines psects, macros, tcb,
77      0153 1 ! wcb, & terminal symbols
78      0154 1
79      0155 1 EXTERNAL
80      0156 1 SMG$_FATERRLIB, ! Fatal error in SMG$ -- internal consistency
81      0157 1 ! check failed.
82      0158 1 SMG$_INVARG, ! Invalid argument
83      0159 1 SMG$_INVDIS_ID, ! Invalid virtual display id
84      0160 1 SMG$_WRONUMARG; ! Wrong number of arguments
85      0161 1
86      0162 1 !<BLF/PAGE>
  
```



```

88 0163 1 %SBTTL 'SMG$ALLOW_ESCAPE - Allow escape sequences to display'
89 0164 1 GLOBAL ROUTINE SMG$ALLOW_ESCAPE (
90 0165 1     DISPLAY_ID,
91 0166 1     ESC_FLAG : REF VECTOR [,LONG]
92 0167 1 ) =
93 0168 1
94 0169 1 ++
95 0170 1 FUNCTIONAL DESCRIPTION:
96 0171 1     Text written to a virtual display normally cannot contain
97 0172 1     escape sequences. An escape sequence is usually treated as
98 0173 1     a terminator. This routine allows escape sequences sent to
99 0174 1     a virtual display to be re-interpretted as valid operations.
100 0175 1
101 0176 1     The device simulated is the device type of the pasteboard.
102 0177 1
103 0178 1     This routine does not cause any output to occur.
104 0179 1
105 0180 1 CALLING SEQUENCE:
106 0181 1
107 0182 1     ret_status.wlc.v = SMG$ALLOW_ESCAPE (
108 0183 1         DISPLAY_ID.rl.r,
109 0184 1         ESC_FLAG.rl.r
110 0185 1
111 0186 1 FORMAL PARAMETERS:
112 0187 1
113 0188 1     DISPLAY_ID.rl.r     Display id of desired virtual display.
114 0189 1
115 0190 1     ESC_FLAG.rl.r      Flag to turn on & off escape parsing
116 0191 1                     Passed by reference, 0 = off and 1 = on
117 0192 1
118 0193 1 IMPLICIT INPUTS:
119 0194 1
120 0195 1     NONE
121 0196 1
122 0197 1 IMPLICIT OUTPUTS:
123 0198 1
124 0199 1     NONE
125 0200 1
126 0201 1 COMPLETION STATUS:
127 0202 1
128 0203 1     $$$_NORMAL      Normal successful completion
129 0204 1
130 0205 1 SIDE EFFECTS:
131 0206 1
132 0207 1     NONE
133 0208 1 --
134 0209 2 BEGIN
135 0210 2
136 0211 2 BUILTIN
137 0212 2     NULLPARAMETER;
138 0213 2
139 0214 2 LOCAL
140 0215 2     CURR_PP : REF $PP DECL,      ! Addr of pasting packet
141 0216 2     PBCB : REF $PBCB DECL,      ! Addr of pasteboard control block
142 0217 2     DCB : REF BLOCK [,BYTE];    ! Addr of display control block
143 0218 2
144 0219 2 LITERAL
  
```

```

145 0220 K_DEVICE_ARG = 3;
146 0221
147 0222 $SMG$GET_DCB ( .DISPLAY_ID, DCB); ! Get address of display control
148 0223 ! block
149 0224
150 0225 $SMG$VALIDATE_ARGCOUNT (2,2);
151 0226
152 0227
153 0228 !+ There are two ways to get escape parsing. One is automatic, with the
154 0229 autobended LIB$/SCR$ routines. This case sets DCB_V_ALLOW_ESC and
155 0230 DCB_V AUTOBENDED. The second case is by SMG$ user request - this sets
156 0231 only DCB_V_ALLOW_ESC.
157 0232 !-
158 0233
159 0234 IF .ESC_FLAG [0] NEQ 0
160 0235 THEN
161 0236 DCB [DCB_V_ALLOW_ESC] = 1
162 0237 ELSE
163 0238 DCB [DCB_V_ALLOW_ESC] = 0;
164 0239
165 0240 !+
166 0241 Set up the device type to simulate. Use the pasteboard
167 0242 device type.
168 0243 !-
169 0244
170 0245 CURR_PP = .DCB [DCB_A_PP_NEXT];
171 0246 PBCB = .CURR_PP [PP_A_PBCB_ADDR];
172 0247
173 0248 SELECTONE .PBCB [PBCB_B_PHY_DEV_TYPE] OF
174 0249 SET
175 0250 [DT$ VT52, DT$ VT55]:
176 0251 DCB [DCB_SIM_DEV_TYPE] = VT52;
177 0252
178 0253 [OTHERWISE]:
179 0254 BEGIN
180 0255 BIND
181 0256 DEVDEPEND2 = PBCB [PBCB_L_DEVDEPEND2] : BLOCK [,BYTE];
182 0257 IF .DEVDEPEND2 [TT2$V_ANSICRT]
183 0258 THEN
184 0259 DCB [DCB_SIM_DEV_TYPE] = VT100
185 0260 ELSE
186 0261 DCB [DCB_SIM_DEV_TYPE] = UNKNOWN;
187 0262 END;
188 0263 TES;
189 0264
190 0265 RETURN (SS$_NORMAL);
191 0266 ! End of routine SMG$ALLOW_ESCAPE
  
```

```

.TITLE SMG$ALLOW_ESCAPE SMG$ALLOW_ESCAPE - Virtual Dis
       play -- Allow esc
.IDENT \1-003\
.EXTRN SMG$_FATERRLIB, SMG$_INVARG
.EXTRN SMG$_INVDIS_ID, SMG$_WRONUMARG
.PSECT _SMG$CODE,NOWRT, SHR, PIC,2
  
```


			0004 00000	.ENTRY	SMG\$ALLOW_ESCAPE, Save R2	:	0164
04	50	04	BC D0 00002	MOVL	@DISPLAY_ID, R0	:	0222
	BC	38	A0 D1 00006	CMPL	56(R0), @DISPLAY_ID	:	
	11	44	06 12 0000B	BNEQ	1\$	:	
			A0 91 0000D	CMPB	68(R0), #17	:	
			08 13 00011	BEQL	2\$	:	
	50	00000000G	8F D0 00013 1\$:	MOVL	#SMG\$_INVDIS_ID, R0	:	
			04 0001A	RET		:	
	51	04	BC D0 0001B 2\$:	MOVL	@DISPLAY_ID, DCB	:	
	02		6C 91 0001F	CMPB	(AP), #2	:	0225
			08 13 00022	BEQL	3\$	:	
	50	00000000G	8F D0 00024	MOVL	#SMG\$_WRONUMARG, R0	:	
			04 0002B	RET		:	
		08	BC D5 0002C 3\$:	TSTL	@ESC_FLAG	:	0234
			06 13 0002F	BEQL	4\$	:	
34	A1		20 88 00031	BISB2	#32, 52(DCB)	:	0236
			04 11 00035	BRB	5\$	:	
34	A1		20 8A 00037 4\$:	BICB2	#32, 52(DCB)	:	0238
	50	20	A1 D0 0003B 5\$:	MOVL	32(DCB), CURR_PP	:	0245
	50	14	A0 D0 0003F	MOVL	20(CURR_PP), PBCB	:	0246
	52	59	A0 9A 00043	MOVZBL	89(PBCB), R2	:	0248
	3F		52 91 00047	CMPB	R2, #63	:	0250
			0C 1B 0004A	BLEQU	6\$	:	
41	8F		52 91 0004C	CMPB	R2, #65	:	
			06 1A 00050	BGTRU	6\$	:	
5C	A1		02 D0 00052	MOVL	#2, 92(DCB)	:	0251
			0D 11 00056	BRB	8\$	:	
	06	63	A0 E9 00058 6\$:	BLBC	99(PBCB), 7\$	:	0257
5C	A1		03 D0 0005C	MOVL	#3, 92(DCB)	:	0259
			03 11 00060	BRB	8\$	:	
		5C	A1 D4 00062 7\$:	CLRL	92(DCB)	:	0261
	50		01 D0 00065 8\$:	MOVL	#1, R0	:	0265
			04 00068	RET		:	0266

; Routine Size: 105 bytes, Routine Base: _SMG\$CODE + 0000

; 192 0267 1 !<BLF/PAGE>

SMG\$ALLOW_ESCAP 1-003 SMG\$ALLOW_ESCAPE - Virtual Display -- Allow esc 16-Sep-1984 00:12:07 N 7
SMG\$ALLOW_ESCAPE - Allow escape sequences to di 14-Sep-1984 13:09:37 VAX-11 Bliss-32 V4.0-742
[SMGRTL.SRC]SMGALLESC.B32;1

Page 6
(4)

: 194 0268 1 GLOBAL BIND ROUTINE SMG\$ALLOW_ESCAPE = SMG\$ALLOW_ESCAPE;
: 195 0269 1 ! this can go away by release time
: 196 0270 1 !<BLF/PAGE>

SMG
1-0

: R


```
: 198      0271 1 END
: 199      0272 1
: 200      0273 0 ELUDOM
! End of module SMG$ALLOW_ESCAPE
```

SMG\$\$ALLOW_ESCAPE== SMG\$ALLOW_ESCAPE

PSECT SUMMARY		
Name	Bytes	Attributes
_SMG\$CODE	105	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics					
File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	6	0	581	00:01.0
-\$255\$DUA28:[SMGRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1
-\$255\$DUA28:[SMGRTL.OBJ]SMGLIB.L32;1	469	18	3	38	00:00.4

COMMAND QUALIFIERS

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

Size: 105 code + 0 data bytes

Run Time: 00:04.9

Elapsed Time: 00:21.6

Lines/CPU Min: 3349

Lexemes/CPU-Min: 13067

Memory Used: 63 pages

Compilation Complete

0355 AH-BT13A-SE
VAX/VMS V4.0

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