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SSSSSSSS MM MM GGGGGGGG AAAAAA LL LL FFFFFFFF SSSSSSSS CCCCCCCC
SSSSSSSS MM MM GGGGGGGG AAAAAA LL LL FFFFFFFF SSSSSSSS CCCCCCCC
SS MM MMM MMM GG AA AA LL LL FFFFFFFF SS SSSSSSS CC
SS MM MMM MMM GG AA AA LL LL FFFFFFFF SS SSSSSSS CC
SS MM MM MM GG AA AA LL LL FFFFFFFF SS SSSSSSS CC
SSSSSS MM MM GG AA AA LL LL FFFFFFFF SSSSSSS SS CC
SSSSSS MM MM GG GGGGGG AAAAAAAAAA LL LL FFFFFFFF SS CC
SS MM MM GG GGGGGG AAAAAAAAAA LL LL FFFFFFFF SS CC
SS MM MM GG GG AA AA LL LL FFFFFFFF SS CC
SSSSSSSS MM MM GGGGGG AA AA LLLLLLLLLL LLLLLLLLLL FFFFFFFF SSSSSSSS CCCCCCCC
SSSSSSSS MM MM GGGGGG AA AA LLLLLLLLLL LLLLLLLLLL FFFFFFFF SSSSSSSS CCCCCCCC

LL LL IIIIII SSSSSSSS
LL LL IIIIII SSSSSSSS
LL LL II SS
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```
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
```

: R

```
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     SMGSALLOW_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     SMGS_FATERRLIB,           ! Fatal error in SMGS -- internal consistency  
81      0157 1                               ! check failed.  
82      0158 1     SMGS_INVARG,             ! Invalid argument  
83      0159 1     SMGS_INVDIS_ID,         ! Invalid virtual display id  
84      0160 1     SMGS_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 |
96      0171 1 |   FUNCTIONAL DESCRIPTION:
97      0172 1 |
98      0173 1 |   Text written to a virtual display normally cannot contain
99      0174 1 |   escape sequences. An escape sequence is usually treated as
100     0175 1 |   a terminator. This routine allows escape sequences sent to
101     0176 1 |   a virtual display to be re-interpretted as valid operations.
102     0177 1 |
103     0178 1 |   The device simulated is the device type of the pasteboard.
104     0179 1 |
105     0180 1 |   This routine does not cause any output to occur.
106     0181 1 |
107     0182 1 | CALLING SEQUENCE:
108     0183 1 |
109     0184 1 |   ret_status.wlc.v = SMG$ALLOW_ESCAPE (
110     0185 1 |     DISPLAY_ID.rl.r,
111     0186 1 |     ESC_FLAG.rl.r
112     0187 1 |
113     0188 1 | FORMAL PARAMETERS:
114     0189 1 |
115     0190 1 |   DISPLAY_ID.rl.r   Display id of desired virtual display.
116     0191 1 |   ESC_FLAG.rl.r    Flag to turn on & off escape parsing
117     0192 1 |                   Passed by reference, 0 = off and 1 = on
118     0193 1 |
119     0194 1 | IMPLICIT INPUTS:
120     0195 1 |
121     0196 1 |   NONE
122     0197 1 |
123     0198 1 | IMPLICIT OUTPUTS:
124     0199 1 |
125     0200 1 |   NONE
126     0201 1 |
127     0202 1 | COMPLETION STATUS:
128     0203 1 |
129     0204 1 |   SSS_NORMAL      Normal successful completion
130     0205 1 |
131     0206 1 | SIDE EFFECTS:
132     0207 1 |
133     0208 1 |   NONE
134     0209 2 | --
135     0210 2 | BEGIN
136     0211 2 |
137     0212 2 | BUILTIN
138     0213 2 |   NULLPARAMETER;
139     0214 2 |
140     0215 2 | LOCAL
141     0216 2 |   CURR_PP : REF $PP DECL,      ! Addr of pasting packet
142     0217 2 |   PBCB : REF $PBCB DECL,      ! Addr of pasteboard control block
143     0218 2 |   DCB : REF BLOCK [,BYTE];    ! Addr of display control block
144     0219 2 |
145     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 LIBS/SCRS 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          [DTS VT52, DTS 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;
    
```

! 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
	50	04	BC D0 00002	MOVL	@DISPLAY_ID, R0	:	0222
04	BC	38	A0 D1 00006	CMP	56(R0), @DISPLAY_ID	:	
			06 12 0000B	BNEQ	1\$:	
	11	44	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 N 7 16-Sep-1984 00:12:07 YAX-11 Bliss-32 V4.0-742
SMG\$ALLOW_ESCAPE - Allow escape sequences to di 14-Sep-1984 13:09:37 [SMGRTL.SRC]SMGALLESC.B32;1

: 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>

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

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

