SMGRTL

FILEID**SMGMAPTRM

```
SSSSSSSS  MM      MM  GGGGGGGG  MM      MM   AAAAAA   PPPPPPPP  TTTTTTTTTT  RRRRRRRR   MM      MM
SSSSSSSS  MM      MM  GGGGGGGG  MM      MM   AAAAAA   PPPPPPPP  TTTTTTTTTT  RRRRRRRR   MM      MM
SS        MMMM  MMMM  GG        MMMM  MMMM  AA    AA  PP    PP     TT       RR    RR   MMMM  MMMM
SS        MMMM  MMMM  GG        MMMM  MMMM  AA    AA  PP    PP     TT       RR    RR   MMMM  MMMM
SS        MM  MM  MM  GG        MM  MM  MM  AA    AA  PP    PP     TT       RR    RR   MM  MM  MM
SS        MM      MM  GG        MM      MM  AA    AA  PP    PP     TT       RR    RR   MM  MM  MM
  SSSSSS  MM      MM  GG        MM      MM  AA    AA  PPPPPPPP     TT       RRRRRRRR   MM      MM
  SSSSSS  MM      MM  GG        MM      MM  AA    AA  PPPPPPPP     TT       RRRRRRRR   MM      MM
      SS  MM      MM  GG  GGGGGG  MM    MM  AAAAAAAAAA  PP         TT       RR  RR     MM      MM
      SS  MM      MM  GG  GGGGGG  MM    MM  AAAAAAAAAA  PP         TT       RR  RR     MM      MM
      SS  MM      MM  GG    GG  MM      MM  AA    AA  PP           TT       RR    RR   MM      MM
      SS  MM      MM  GG    GG  MM      MM  AA    AA  PP           TT       RR    RR   MM      MM  ....
SSSSSSSS  MM      MM  GGGGGG    MM      MM  AA    AA  PP           TT       RR    RR   MM      MM  ....
SSSSSSSS  MM      MM  GGGGGG    MM      MM  AA    AA  PP           TT       RR    RR   MM      MM  ....
                                                                                                 ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

B 3

SMG$MAP_TERM_TABLE - Map Termtable.exe as a glo 16-Sep-1984 00:51:37   VAX-11 Bliss-32 V4.0-742   Page 1
                                                 14-Sep-1984 13:09:53   [SMGRTL.SRC]SMGMAPTRM.B32;1   (1)

```
   1    0001  0 %TITLE 'SMG$MAP_TERM_TABLE - Map Termtable.exe as a global section'
   2    0002  0 MODULE SMG$MAP_TERM_TABLE (
   3    0003  0                 MAIN = SMG$MAP_TERM_TABLE,
   4    0004  0                 IDENT = '1-001' ! File: SMGMAPTRM.B32 Edit: PLL1001
   5    0005  0                 ) =
   6    0006  1 BEGIN
   7    0007  1 !
   8    0008  1 !***********************************************************************
   9    0009  1 !*                                                                     *
  10    0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                            *
  11    0011  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.             *
  12    0012  1 !*  ALL RIGHTS RESERVED.                                               *
  13    0013  1 !*                                                                     *
  14    0014  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
  15    0015  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE *
  16    0016  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER *
  17    0017  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
  18    0018  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY *
  19    0019  1 !*  TRANSFERRED.                                                         *
  20    0020  1 !*                                                                     *
  21    0021  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE *
  22    0022  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT *
  23    0023  1 !*  CORPORATION.                                                         *
  24    0024  1 !*                                                                     *
  25    0025  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS *
  26    0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.             *
  27    0027  1 !*                                                                     *
  28    0028  1 !*                                                                     *
  29    0029  1 !***********************************************************************
  30    0030  1 !
  31    0031  1
  32    0032  1 !++
  33    0033  1 ! FACILITY:      Screen Management
  34    0034  1 !
  35    0035  1 ! ABSTRACT:
  36    0036  1 !
  37    0037  1 !       This module maps TERMTABLE.EXE as a global section.
  38    0038  1 !
  39    0039  1 ! ENVIRONMENT:  User mode, Shared library routines.
  40    0040  1 !
  41    0041  1 ! AUTHOR: P. Levesque, CREATION DATE: 9-Nov-1983
  42    0042  1 !
  43    0043  1 ! MODIFIED BY:
  44    0044  1 !
  45    0045  1 ! 1-001 - Original.  PLL 9-Nov-1983
  46    0046  1 !--
```

```
  48    0047  1 %SBTTL 'Declarations'
  49    0048  1 !
  50    0049  1 ! SWITCHES:
  51    0050  1 !
  52    0051  1 !
  53    0052  1 !
  54    0053  1 ! LINKAGES:
  55    0054  1 !
  56    0055  1 !     NONE
  57    0056  1 !
  58    0057  1 ! INCLUDE FILES:
  59    0058  1 !
  60    0059  1
  61    0060  1 REQUIRE 'SRC$:SMGPROLOG';                ! defines psects, macros, etc.
  62    0138  1
  63    0139  1 LIBRARY 'RTLML:SMGTPALIB';               ! definitions for TERMTABLE
  64    0140  1
  65    0141  1 !
  66    0142  1 ! TABLE OF CONTENTS:
  67    0143  1 !
  68    0144  1
  69    0145  1 FORWARD ROUTINE
  70    0146  1
  71    0147  1     SMG$MAP_TERM_TABLE : NOVALUE;        ! map Termtable.exe as a global section
  72    0148  1
  73    0149  1 !
  74    0150  1 ! MACROS:
  75    0151  1 !
  76    0152  1
  77    0153  1 !
  78    0154  1 ! EQUATED SYMBOLS:
  79    0155  1 !
  80    0156  1
  81    0157  1 !
  82    0158  1 ! FIELDS:
  83    0159  1 !
  84    0160  1 !     NONE
  85    0161  1 ! PSECTS:
  86    0162  1 !
  87    0163  1 !
  88    0164  1
  89    0165  1 !
  90    0166  1 ! STRUCTURES:
  91    0167  1 !
  92    0168  1
  93    0169  1
  94    0170  1 !
  95    0171  1 ! OWN STORAGE:
  96    0172  1 !
  97    0173  1
  98    0174  1 !     NONE
  99    0175  1
 100    0176  1 !
 101    0177  1 ! EXTERNAL REFERENCES:
 102    0178  1 !
 103    0179  1 EXTERNAL LITERAL
 104    0180  1     SMG$_GBLNOTCRE,                     ! global section not created
```

```
:  105          0181  1     SMG$_DELEXIGBL;              . delete existing global section
:  106          0182  1
```

```
108        0183  1 %SBTTL 'SMGSMAP_TERM_TABLE  - Map Termtable.exe'
109        0184  1 GLOBAL ROUTINE SMGSMAP_TERM_TABLE : NOVALUE =
110        0185  1 !+
111        0186  1 ! FUNCTIONAL DESCRIPTION:
112        0187  1 !
113        0188  1 !        This routine maps TERMTABLE.EXE as a global section.
114        0189  1 !
115        0190  1 !
116        0191  1 ! FORMAL PARAMETERS:
117        0192  1 !
118        0193  1 !        NONE
119        0194  1 !
120        0195  1 ! IMPLICIT INPUTS:
121        0196  1 !
122        0197  1 !        NONE
123        0198  1 !
124        0199  1 ! IMPLICIT OUTPUTS:
125        0200  1 !
126        0201  1 !        NONE
127        0202  1 !
128        0203  1 ! COMPLETION STATUS:
129        0204  1 !
130        0205  1 !        Errors from $OPEN, $CRMPSC may be signalled
131        0206  1 !        SMG$_GBLNOTCRE          global section not created
132        0207  1 !        SMG$_DELEXIGBL          delete existing global section and retry
133        0208  1 !
134        0209  1 ! SIDE EFFECTS:
135        0210  1 !
136        0211  1 !        NONE
137        0212  1 !--
138        0213  2    BEGIN
139        0214  2    LOCAL
140        0215  2        OPEN_STATUS,                     ! status retd by $OPEN
141        0216  2        MAP_STATUS,                      ! status retd by $CRMPSC
142        0217  2        REQ_ADDR : VECTOR [2] INITIAL (%X'200', %X'200'),
143        0218  2                                         ! input address to $CRMPSC
144        0219  2        ACTUAL_ADDR : VECTOR [2],        ! retd address from $CRMPSC
145        0220  2        GBL_NAME_DESC : BLOCK [8,BYTE],  ! desc for global section name
146      P 0221  2        TERM_TAB_FAB : $FAB (FAC = GET, SHR = GET, FOP = UFO,
147        0222  2                             FNM = 'TERMTABLE.EXE');
148        0223  2                                         ! FAB for TERMTABLE.EXE
149        0224  2
150        0225  2 !+
151        0226  2 ! Open the file to get a channel.
152        0227  2 !-
153        0228  2
154        0229  3     IF NOT (OPEN_STATUS = $OPEN (FAB = TERM_TAB_FAB))
155        0230  2     THEN
156        0231  2        SIGNAL_STOP (.OPEN_STATUS, .TERM_TAB_FAB [FABSL_STV]);
157        0232  2
158        0233  2 !+
159        0234  2 ! Map it as a global section.
160        0235  2 !-
161        0236  2
162        0237  2        GBL_NAME_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
163        0238  2        GBL_NAME_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
164        0239  2        GBL_NAME_DESC [DSC$W_LENGTH] = %CHARCOUNT ('SMGSTERMTABLE');
```

```
165        0240  2        GBL_NAME_DESC [DSC$A_POINTER] = UPLIT ('SMG$TERMTABLE');
166        0241  2
167      P 0242  2        MAP_STATUS = $CRMPSC (INADR = REQ_ADDR,
168      P 0243  2                              RETADR = ACTUAL_ADDR,
169      P 0244  2                              FLAGS = SEC$M_GBL + SEC$M_EXPREG + SEC$M_PERM + SEC$M_SYSGBL,
170      P 0245  2                              GSDNAM = GBL_NAME_DESC,
171        0246  2                              CHAN = .TERM_TAB_FAB [FAB$L_STV]);
172        0247  2     !+
173        0248  2     ! We always want to create a new global section.  If there is already
174        0249  2     ! a SMG$TERMTABLE global section, it will have to be deleted before we
175        0250  2     ! can create a new one.
176        0251  2     !
177        0252  2     ! We can't delete the old section here because the deletion may not happen
178        0253  2     ! right away.  (The section is marked for delete but doesn't disappear until
179        0254  2     ! no processes are mapped to it.)
180        0255  2     !-
181        0256  2        IF .MAP_STATUS NEQ SS$_CREATED
182        0257  2        THEN
183        0258  2            SIGNAL (SMG$_GBLNOTCRE,0,SMG$_DELEXIGBL);
184        0259  2
185        0260  2
186        0261  2     !+
187        0262  2     ! Deallocate the channel.
188        0263  2     !-
189        0264  2
190        0265  2        $DASSGN (CHAN = .TERM_TAB_FAB [FAB$L_STV]);
191        0266  2
192        0267  1        END;                                 ! end of SMG$MAP_TERM_TABLE


                                                   .TITLE   SMG$MAP_TERM_TABLE SMG$MAP_TERM_TABLE - Map Ter
                                                                               mtable.exe as a glo
                                                   .IDENT   \1-001\

                                                   .PSECT   _SMG$CODE,NOWRT,  SHR,  PIC,2

   45  58  45  2E  45  4C  42  41  54  4D  52  45  54  00000 P.AAA:   .ASCII   \TERMTABLE.EXE\
                                                          0000D       .BLKB    3
                                                       03 00010 P.AAB:   .BYTE    3
                                                       50 00011       .BYTE    80
                                                     0000 00012       .WORD    0
                                                 00020000 00014       .LONG    131072
                                                 00000000 00018       .LONG    0
                                                 00000000 0001C       .LONG    0
                                                 00000000 00020       .LONG    0
                                                     0000 00024       .WORD    0
                                                       02 00026       .BYTE    2
                                                       02 00027       .BYTE    2
                                                 00000000 00028       .LONG    0
                                                       00 0002C       .BYTE    0
                                                       00 0002D       .BYTE    0
                                                       00 0002E       .BYTE    0
                                                       02 0002F       .BYTE    2
                                                 00000000 00030       .LONG    0
                                                 00000000 00034       .LONG    0
                                                 00000000 00038       .LONG    0
                                                00000000' 0003C       .ADDRESS P.AAA
```

G 3

SMG$MAP_TERM_TA SMG$MAP_TERM_TABLE - Map Termtable.exe as a glo 16-Sep-1984 00:51:37   VAX-11 Bliss-32 V4.0-741   Page 6
1-001   SMG$MAP_TERM_TABLE - Map Termtable.exe   14-Sep-1984 13:09:53   [SMGRTL.SRC]SMGMAPTRM.B32;1   (3)

```
                                    00000000  00040          .LONG    0
                                          0D  00044          .BYTE    13
                                          00  00045          .BYTE    0
                                        0000  00046          .WORD    0
                                    00000000  00048          .LONG    0
                                        0000  0004C          .WORD    0
                                          00  0004E          .BYTE    0
                                          00  0004F          .BYTE    0
                                    00000000  00050          .LONG    0
                                    00000000  00054          .LONG    0
                                        0000  00058          .WORD    0
                                          00  0005A          .BYTE    0
                                          00  0005B          .BYTE    0
                                    00000000  0005C          .LONG    0
00 00 45 4C 42 41 54 4D 52 45 54 24 47 4D 53  00060  P.AAC:  .ASCII   \SMG$TERMTABLE\<0><0><0>
                                          00  0006F

                                                            .EXTRN   SMG$_GBLNOTCRE, SMG$_DELEXIGBL
                                                            .EXTRN   SYS$OPEN, SYS$CRMPSC
                                                            .EXTRN   SYS$DASSGN

                                    003C  00000             .ENTRY   SMG$MAP_TERM_TABLE, Save R2,R3,R4,R5    ; 0184
                        5E      98  AE  9E  00002            MOVAB    -104(SP), SP                            ; 0213
                 60  AE     0200  8F  3C  00006              MOVZWL   #512, REQ_ADDR                          ; 0213
                 64  AE     0200  8F  3C  0000C              MOVZWL   #512, REQ_ADDR+4
          6E       88  AF   0050  8F  28  00012              MOVC3    #80, P.AAB, TERM_TAB_FAB               ; 0222
                            5E      DD  00019                PUSHL    SP                                      ; 0229
         00000000G      00      01  FB  0001B                CALLS    #1, SYS$OPEN
                            0C      50  E8  00022            BLBS     OPEN_STATUS, 1$
                        0C  AE      DD  00025                PUSHL    TERM_TAB_FAB+12                         ; 0231
                            50      DD  00028                PUSHL    OPEN_STATUS
         00000000G      00      02  FB  0002A                CALLS    #2, LIB$STOP
               50  AE  010E000D  8F  D0  00031  1$:          MOVL     #17694733, GBL_NAME_DESC               ; 0239
               54  AE        B4  AF  9E  00039               MOVAB    P.AAC, GBL_NAME_DESC+4                 ; 0240
                            7E      7C  0003E                CLRQ     -(SP)                                   ; 0246
                            7E      7C  00040                CLRQ     -(SP)
                        1C  AE      DD  00042                PUSHL    TERM_TAB_FAB+12
                            7E      7C  00045                CLRQ     -(SP)
                        6C  AE      9F  00047                PUSHAB   GBL_NAME_DESC
                      0002C001  8F  DD  0004A                PUSHL    #180225
                            7E      D4  00050                CLRL     -(SP)
                            F0  AD      9F  00052            PUSHAB   ACTUAL_ADDR
                            F8  AD      9F  00055            PUSHAB   REQ_ADDR
         0000000UG      00      0C  FB  00058                CALLS    #12, SYS$CRMPSC
         00000619    8F          50  D1  0005F               CMPL     MAP_STATUS, #1561                      ; 0256
                            15      13  00066                BEQL     2$                                     ; 0258
              00000000G      8F  DD  00068                   PUSHL    #SMG$_DELEXIGBL
                            7E      D4  0006E                CLRL     -(SP)
              00000000G      8F  DD  00070                   PUSHL    #SMG$_GBLNOTCRE
         00000000G      00      03  FB  00076                CALLS    #3, LIB$SIGNAL
                        0C  AE      DD  0007D  2$:            PUSHL    TERM_TAB_FAB+12                        ; 0265
         00000000G      00      01  FB  00080                CALLS    #1, SYS$DASSGN
                                04  00087                    RET                                             ; 0267
```

; Routine Size: 136 bytes,   Routine Base: _SMG$CODE + 0070

H 3

SMG$MAP_TERM_TA SMG$MAP_TERM_TABLE - Map Termtable.exe as a glo 16-Sep-1984 00:51:37   VAX-11 Bliss-32 V4.0-742   Page 7   SMG$
1-001   SMG$MAP_TERM_TABLE - Map Termtable.exe   14-Sep-1984 13:09:53   [SMGRTL.SRC]SMGMAPTRM.B32;1   (4)   1-01

```
;  194      0268  1     END              end of module SMG$MAP_TERM_TABLE
;  195      0269  0     ELUDOM
```

                                                    .EXTRN LIB$SIGNAL, LIB$STOP
                        PSECT SUMMARY

        Name   Bytes   Attributes

    _SMG$CODE   248 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

                    Library Statistics

                                    -------- Symbols --------   Pages   Processing
            File   Total Loaded   Percent   Mapped   Time

    _255DUA28:[SYSLIB]STARLET.L32;1   9776   37   0   581   00:01.0
    _255DUA28:[SMGRTL.OBJ]RTLLIB.L32;1   36   0   0   8   00:00.1
    _255DUA28:[SMGRTL.OBJ]SMGLIB.L32;1   469   0   0   38   00:00.4
    _255DUA28:[SMGRTL.OBJ]SMGTPALIB.L32;1
                                             41   0   0   10   00:00.1

                        COMMAND QUALIFIERS

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

; Size: 136 code + 112 data bytes
; Run Time: 00:06.0
; Elapsed Time: 00:26.2
; Lines/CPU Min: 2703
; Lexemes/CPU-Min: 23226
; Memory Used: 75 pages
; Compilation Complete

SMGMINUPD
LIS

SMGMIN
LIS

SMGMAPTRM
LIS