



```

SSSSSSSS  CCCCCCCC  RRRRRRRR  RRRRRRRR  EEEEEEEEE  GGGGGGGG  IIIIII  000000  NN  NN
SSSSSSSS  CCCCCCCC  RRRRRRRR  RRRRRRRR  EEEEEEEEE  GGGGGGGG  IIIIII  000000  NN  NN
SS      CC      RR      RR      EE      GG      II      00      00  NN  NN
SS      CC      RR      RR      EE      GG      II      00      00  NN  NN
SS      CC      RR      RR      EE      GG      II      00      00  NN  NN
SS      CC      RR      RR      EE      GG      II      00      00  NN  NN
SSSSSS  CC      RRRRRRRR  RRRRRRRR  EEEEEEEE  GG      GG      II      00      00  NN  NN
SSSSSS  CC      RRRRRRRR  RRRRRRRR  EEEEEEEE  GG      GG      II      00      00  NN  NN
SS      CC      RR  RR      RR  RR      EE      GG      GG      II      00      00  NN  NN
SS      CC      RR  RR      RR  RR      EE      GG      GG      II      00      00  NN  NN
SS      CC      RR  RR      RR  RR      EE      GG      GG      II      00      00  NN  NN
SS      CC      RR  RR      RR  RR      EE      GG      GG      II      00      00  NN  NN
SSSSSSSS  CCCCCCCC  RR      RR      EEEEEEEEE  GGGGGG  IIIIII  000000  NN  NN
SSSSSSSS  CCCCCCCC  RR      RR      EEEEEEEEE  GGGGGG  IIIIII  000000  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
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS

```

```

....
....
....
....

```

```

1 0001 0 %TITLE 'EDT$SCRREGION - set the scrolling region'
2 0002 0 MODULE EDT$SCRREGION ( ! Set the scrolling region
3 0003 0 IDENT = 'V04-000' ! File: SCRREGION.BLI Edit: SMB1006
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
10 0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
11 0011 1 * ALL RIGHTS RESERVED. *
12 0012 1 *
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
14 0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
15 0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
16 0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
17 0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
18 0018 1 * TRANSFERRED. *
19 0019 1 *
20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
22 0022 1 * CORPORATION. *
23 0023 1 *
24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: EDT -- The DEC Standard Editor
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This module outputs a sequence to change the scrolling region.
37 0037 1
38 0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Bob Kushlis, CREATION DATE: September 8, 1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. DJS 12-Feb-1981. This module was created by
45 0045 1 extracting the routine EDT$SC SETSCLLREG from module SCREEN.
46 0046 1 1-002 - regularize headers. JBS 13-Mar-1981
47 0047 1 1-003 - Don't set the scrolling region on a VT52. JBS 31-Aug-1982
48 0048 1 1-004 - Maintain the cursor position. JBS 05-Oct-1982
49 0049 1 1-005 - Add check for scrolling terminal. SMB 21-Oct-1982
50 0050 1 1-006 - Save the current top and bottom scrolling parameters. SMB 11-Jan-1983
51 0051 1 --
52 0052 1

```

```
54 0053 1 %SBTTL 'Declarations'  
55 0054 1  
56 0055 1 : TABLE OF CONTENTS:  
57 0056 1 :  
58 0057 1 :  
59 0058 1 REQUIRE 'EDTSRC:TRAROUNAM';  
60 0497 1  
61 0498 1 FORWARD ROUTINE  
62 0499 1     EDT$SC_SETSCLLREG : NOVALUE;  
63 0500 1  
64 0501 1 :  
65 0502 1 : INCLUDE FILES:  
66 0503 1 :  
67 0504 1 :  
68 0505 1 REQUIRE 'EDTSRC:EDTREQ';  
69 0640 1  
70 0641 1 :  
71 0642 1 : MACROS:  
72 0643 1 :  
73 0644 1 :  
74 0645 1 BIND  
75 0646 1     ESC_BRACKET = UPLIT (%STRING (%CHAR (ASC_K_ESC), 'C')));  
76 0647 1  
77 0648 1 LITERAL  
78 0649 1     ESC_BRACKET_LEN = 2;  
79 0650 1  
80 0651 1 :  
81 0652 1 : EQUATED SYMBOLS:  
82 0653 1 :  
83 0654 1 :     NONE  
84 0655 1 :  
85 0656 1 : OWN STORAGE:  
86 0657 1 :  
87 0658 1 :     NONE  
88 0659 1 :  
89 0660 1 : EXTERNAL REFERENCES:  
90 0661 1 :  
91 0662 1 :     In the routine
```

```

: 93 0663 1 %SBTTL 'EDT$$$SC_SETSCLLREG - set the scrolling region'
: 94 0664 1
: 95 0665 1 GLOBAL ROUTINE EDT$$$SC_SETSCLLREG (           ! Set the scrolling region
: 96 0666 1     T,                                           ! Top line
: 97 0667 1     B,                                           ! Bottom line
: 98 0668 1     ) : NOVALUE =
: 99 0669 1
:100 0670 1 ++
:101 0671 1 FUNCTIONAL DESCRIPTION:
:102 0672 1
:103 0673 1     This routine puts the escape sequence to change the scrolling region
:104 0674 1     into the format buffer. T and B define the top and bottom line of the
:105 0675 1     desired scrolling region.
:106 0676 1
:107 0677 1 FORMAL PARAMETERS:
:108 0678 1
:109 0679 1     T           Top line
:110 0680 1
:111 0681 1     B           Bottom line
:112 0682 1
:113 0683 1 IMPLICIT INPUTS:
:114 0684 1
:115 0685 1     EDT$$G_TOP_SCREG
:116 0686 1     EDT$$G_BOT_SCREG
:117 0687 1     EDT$$G_TI_SCROLL
:118 0688 1     EDT$$G_TI_TYP
:119 0689 1
:120 0690 1 IMPLICIT OUTPUTS:
:121 0691 1
:122 0692 1     EDT$$G_TOP_SCREG
:123 0693 1     EDT$$G_BOT_SCREG
:124 0694 1
:125 0695 1 ROUTINE VALUE:
:126 0696 1
:127 0697 1     NONE
:128 0698 1
:129 0699 1 SIDE EFFECTS:
:130 0700 1
:131 0701 1     NONE
:132 0702 1
:133 0703 1 --
:134 0704 1
:135 0705 2 BEGIN
:136 0706 2
:137 0707 2 EXTERNAL ROUTINE
:138 0708 2     EDT$$FMT_CH : NOVALUE,           ! Output a character
:139 0709 2     EDT$$FMT_DCML : NOVALUE,      ! Output a number is decimal
:140 0710 2     EDT$$FMT_LIT : NOVALUE,      ! Output a string without editing
:141 0711 2     EDT$$$SC_POSCSIF : NOVALUE;   ! Position the cursor
:142 0712 2
:143 0713 2 EXTERNAL
:144 0714 2     EDT$$G_TOP_SCREG,           ! Current top parameter
:145 0715 2     EDT$$G_BOT_SCREG,         ! Current bottom parameter
:146 0716 2     EDT$$G_TI_SCROLL,        ! Scrolling terminal
:147 0717 2     EDT$$G_TI_TYP,           ! Terminal type
:148 0718 2     EDT$$G_PRV_COL,          ! Cursor column
:149 0719 2     EDT$$G_PRV_LN;            ! Cursor line
```

```

150 0720 2
151 0721 4
152 0722 3
153 0723 2
154 0724 2
155 0725 2
156 0726 2
157 0727 2
158 0728 2
159 0729 2
160 0730 2
161 0731 2
162 0732 2
163 0733 2
164 0734 2
165 0735 2
166 0736 2
167 0737 2
168 0738 2
169 0739 2
170 0740 2
171 0741 2
172 0742 2
173 0743 2
174 0744 1

```

```

IF ((.EDT$$G_TI_TYP EQL TERM_VT100) AND (.EDT$$G_TI_SCROLL) !
AND ((.T NEQ .EDT$$G_TOP_SCREG) OR (.B NEQ .EDT$$G_BOT_SCREG)))
THEN
BEGIN
EDT$$FMT_LIT (ESC_BRACKET, ESC_BRACKET_LEN);

IF (.T NEQ 0) THEN EDT$$FMT_DCML (.T + 1);

EDT$$FMT_CH (XC';');
EDT$$FMT_DCML (.B);
EDT$$FMT_CH (XC'r');

Setting the scrolling region homes the cursor.

EDT$$G_PRV_LN = 0;
EDT$$G_PRV_COL = 0;

Save a copy of the current scrolling region parameters

EDT$$G_TOP_SCREG = .T;
EDT$$G_BOT_SCREG = .B;
END;

```

! of routine EDT\$\$\$SC\_SETSCLLREG

.TITLE EDT\$SCRREGION EDT\$SCRREGION - set the scrolling region

.IDENT \V04-000\

.PSECT \_EDT\$CODE, NOWRT, SHR, PIC, 2

00 00 5B 1B 00000 P.AAA: .ASCII <27>\[ \<0><0>

ESC\_BRACKET= P.AAA

```

.EXTRN EDT$$FMT_CH, EDT$$FMT_DCML
.EXTRN EDT$$FMT_LIT, EDT$$$SC_POSCSIF
.EXTRN EDT$$G_TOP_SCREG
.EXTRN EDT$$G_BOT_SCREG
.EXTRN EDT$$G_TI_SCROLL
.EXTRN EDT$$G_TI_TYP, EDT$$G_PRV_COL
.EXTRN EDT$$G_PRV_LN

```

```

007C 00000 .ENTRY EDT$$$SC_SETSCLLREG, Save R2,R3,R4,R5,R6 : 0665
56 00000000G 00 9E 00002 MOVAB EDT$$FMT_CH, R6
55 00000000G 00 9E 00009 MOVAB EDT$$FMT_DCML, R5
54 00000000G 00 9E 00010 MOVAB EDT$$G_BOT_SCREG, R4
53 00000000G 00 9E 00017 MOVAB EDT$$G_TOP_SCREG, R3
02 00000000G 00 D1 0001E CMPL EDT$$G_TI_TYP, #2 : 0721
50 12 00025 BNEQ 3$
49 00000000G 00 E9 00027 BLBC EDT$$G_TI_SCROLL, 3$
63 04 AC D1 0002E CMPL T, EDT$$G_TOP_SCREG : 0722
06 12 00032 BNEQ 1$
64 08 AC D1 00034 CMPL B, EDT$$G_BOT_SCREG
3D 13 00038 BEQL 3$
02 DD 0003A 1$: PUSHL #2 : 0725

```

EDT\$SCRREGION  
V04-000

EDT\$SCRREGION - set the scrolling region  
EDT\$SC\_SETSCLLREG - set the scrolling region

8 8  
16-Sep-1984 01:40:02  
14-Sep-1984 12:24:35

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]SCRREGION.BLI;1

Page 5  
(3)

00000000G	00	BD	AF	9F	0003C	PUSHAB	ESC_BRACKET	:	
	52		02	FB	0003F	CALLS	#2, EDT\$FMT_LIT	:	
		04	AC	D0	00046	MOVL	T, R2	:	0727
			06	13	0004A	BEQL	2\$	:	
	65	01	A2	9F	0004C	PUSHAB	1(R2)	:	
			01	FB	0004F	CALLS	#1, EDT\$FMT_DCML	:	
			3B	DD	00052	PUSHL	#5\$	:	0729
	66		01	FB	00054	CALLS	#1, EDT\$FMT_CH	:	
		08	AC	DD	00057	PUSHL	B	:	0730
	65		01	FB	0005A	CALLS	#1, EDT\$FMT_DCML	:	
	7E	72	8F	9A	0005D	MOVZBL	#14, -(SP)	:	0731
	66		01	FB	00061	CALLS	#1, EDT\$FMT_CH	:	
		00000000G	00	D4	00064	CLRL	EDT\$G_PRV_LN	:	0735
		00000000G	00	D4	0006A	CLRL	EDT\$G_PRV_COL	:	0736
	63		52	D0	00070	MOVL	R2, EDT\$G_TOP_SCREG	:	0740
	64	08	AC	D0	00073	MOVL	B, EDT\$G_BOT_SCREG	:	0741
			04	00077	3\$:	RET		:	0744

: Routine Size: 120 bytes, Routine Base: \_EDT\$CODE + 0C04

: 175 0745 1  
: 176 0746 1 !<BLF/PAGE>

EDT\$  
V04-

S  
R  
E  
F  
E  
R  
E  
N  
C  
E

EDT\$SCRREGION  
V04-000

EDT\$SCRREGION - set the scrolling region  
EDT\$\$SC\_SETSCLLREG - set the scrolling region

C 8  
16-Sep-1984 01:40:02  
14-Sep-1984 12:24:35

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]SCRREGION.BLI;1

: 178 0747 1 END  
: 179 0748 1  
: 180 0749 0 ELUDOM

! of module EDT\$SCRREGION

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	124	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	2	0	40	00:00.2
_\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:SCRREGION/OBJ=OBJ\$:SCRREGION MSRC\$:SCRREGION.BLI/UPDATE=(ENH\$:S  
(RREGION))

: Size: 120 code + 4 data bytes  
: Run Time: 00:11.2  
: Elapsed Time: 00:12.6  
: Lines/CPU Min: 4012  
: Lexemes/CPU-Min: 10955  
: Memory Used: 68 pages  
: Compilation Complete



