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```

0001 0 %TITLE 'EDT$SCRREGION - set the scrolling region'
0002 0 MODULE EDT$SCRREGION ( ! Set the scrolling region
0003 0 IDENT = 'V04-000' ! File: SCRREGION.BLI Edit: SMB1006
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: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 This module outputs a sequence to change the scrolling region.
0037 1
0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0039 1
0040 1 AUTHOR: Bob Kushlis, CREATION DATE: September 8, 1979
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 1-001 - Original. DJS 12-Feb-1981. This module was created by
0045 1 extracting the routine EDT$SC SETSCLLREG from module SCREEN.
0046 1 1-002 - regularize headers. JBS 13-Mar-1981
0047 1 1-003 - Don't set the scrolling region on a VT52. JBS 31-Aug-1982
0048 1 1-004 - Maintain the cursor position. JBS 05-Oct-1982
0049 1 1-005 - Add check for scrolling terminal. SMB 21-Oct-1982
0050 1 1-006 - Save the current top and bottom scrolling parameters. SMB 11-Jan-1983
0051 1 --
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$SSC_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), '['));  
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 2.4
: 152 0722 2.4
: 153 0723 2.4
: 154 0724 2.4
: 155 0725 2.4
: 156 0726 2.4
: 157 0727 2.4
: 158 0728 2.4
: 159 0729 2.4
: 160 0730 2.4
: 161 0731 2.4
: 162 0732 2.4
: 163 0733 2.4
: 164 0734 2.4
: 165 0735 2.4
: 166 0736 2.4
: 167 0737 2.4
: 168 0738 2.4
: 169 0739 2.4
: 170 0740 2.4
: 171 0741 2.4
: 172 0742 2.4
: 173 0743 2.4
: 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$$FMT_CH (%C';');
EDT$$FMT_DCML (.B);
EDT$$FMT_CH (%C'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;

END;

```

! of routine EDT\$\$\$C_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\$\$\$C_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$$$C_SETSCLLREG, Save R2,R3,R4,R5,R6 : 0665
56 00000000G 00 9E 00002 MOVAB EDT$$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

```

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

; Routine Size: 120 bytes, Routine Base: _EDT\$CODE + 0004

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

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

Page 6
(4)

**F

: 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
CRREGION)

: 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

