


```

SSSSSSSS  CCCCCCCC  RRRRRRRR  EEEEEEEEE  SSSSSSSS  CCCCCCCC  RRRRRRRR
SSSSSSSS  CCCCCCCC  RRRRRRRR  EEEEEEEEE  SSSSSSSS  CCCCCCCC  RRRRRRRR
SS          CC          RR          EE          SS          CC          RR          RR
SS          CC          RR          EE          SS          CC          RR          RR
SS          CC          RR          EE          SS          CC          RR          RR
SS          CC          RR          EE          SS          CC          RR          RR
SSSSSS    CC          RRRRRRRR  EEEEEEEEE  SSSSSS    CC          RRRRRRRR
SSSSSS    CC          RRRRRRRR  EEEEEEEEE  SSSSSS    CC          RRRRRRRR
          SS          RR  RR          EE          SS          RR  RR          RR
          SS          RR  RR          EE          SS          RR  RR          RR
          SS          RR  RR          EE          SS          RR  RR          RR
          SS          RR  RR          EE          SS          RR  RR          RR
SSSSSSSS  CCCCCCCC  RR          EE          SSSSSSSS  CCCCCCCC  RR          RR
SSSSSSSS  CCCCCCCC  RR          EE          SSSSSSSS  CCCCCCCC  RR          RR

```

```

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$SCRESCR - erase screen'
2 0002 0 MODULE EDT$SCRESCR ( ! Erase screen
3 0003 0 IDENT = 'V04-000' ! File: SCRESCR.BLI Edit: JBS1012
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 an erase screen sequence.
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$$$C ERAALL from module SCREEN.
46 0046 1 1-002 - Regularize headers. JBS 13-Mar-1981
47 0047 1 1-003 - Set message flag to zero when the screen is erased. SMB 30-Aug-1982
48 0048 1 1-004 - Add code to erase line by line if message flag set. SMB 24-Sep-1982
49 0049 1 1-005 - Revise the handling of EDT$$G_MSGFLG. JBS 06-Oct-1982
50 0050 1 1-006 - Use the fancy screen clearing features of the VT100 to speed up screen
51 0051 1 clearing when the message line must be preserved. JBS 06-Oct-1982
52 0052 1 1-007 - Don't clear EDT$$G_SCR_CHGD unless we are clearing the whole screen. JBS 07-Oct-1982
53 0053 1 1-008 - Fix clearing one line too many when clearing the text area. JBS 09-Oct-1982
54 0054 1 1-009 - Remove the call to EDT$$OUT_FMTBUF. JBS 09-Oct-1982
55 0055 1 1-010 - Set the cursor position before erasing. JBS 23-Oct-1982
56 0056 1 1-011 - If the cursor line is -1 (initial value) use 0. JBS 11-Jan-1983
57 0057 1 1-012 - Allow for new value of EDT$$G_SCR_CHGD. JBS 02-Mar-1983

```

EDTSSCRESCR
V04-000

EDTSSCRESCR - erase screen

: 58
: 59

0058 1 !--
0059 1

F 15
16-Sep-1984 01:32:48
14-Sep-1984 12:24:25

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[EDT.SRC]SCRESCR.BLI;1 Page 2 (1)

ED
VO

:
:
:

```
61 0060 1 %SBTTL 'Declarations'  
62 0061 1 :  
63 0062 1 : TABLE OF CONTENTS:  
64 0063 1 :  
65 0064 1 :  
66 0065 1 REQUIRE 'EDT SRC:TRAROUNAM';  
67 0504 1 :  
68 0505 1 FORWARD ROUTINE  
69 0506 1 EDTSSC_ERAALL : NOVALUE;  
70 0507 1 :  
71 0508 1 :  
72 0509 1 : INCLUDE FILES:  
73 0510 1 :  
74 0511 1 :  
75 0512 1 REQUIRE 'EDT SRC:EDTREQ';  
76 0647 1 :  
77 0648 1 :  
78 0649 1 : MACROS:  
79 0650 1 :  
80 0651 1 : NONE  
81 0652 1 :  
82 0653 1 : EQUATED SYMBOLS:  
83 0654 1 :  
84 0655 1 :  
85 0656 1 BIND  
86 0657 1 ERS_S_52 = UPLIT (%STRING (%CHAR (ASC_K_ESC), 'J')),  
87 0658 1 ERS_S_100 = UPLIT (%STRING (%CHAR (ASC_R_ESC), '[J]')),  
88 0659 1 ERS_S_100A = UPLIT (%STRING (%CHAR (ASC_R_ESC), '[1J]'));  
89 0660 1 :  
90 0661 1 LITERAL  
91 0662 1 ERS_S_52_LEN = 2;  
92 0663 1 ERS_S_100_LEN = 3;  
93 0664 1 ERS_S_100A_LEN = 4;  
94 0665 1 :  
95 0666 1 :  
96 0667 1 : OWN STORAGE:  
97 0668 1 :  
98 0669 1 : NONE  
99 0670 1 :  
100 0671 1 : EXTERNAL REFERENCES:  
101 0672 1 :  
102 0673 1 : In the routine
```

```

: 104 0674 1 %SBTTL 'EDT$SC_ERAALL - erase screen'
: 105 0675 1
: 106 0676 1 GLOBAL ROUTINE EDT$SC_ERAALL ! Erase screen
: 107 0677 1 : NOVALUE =
: 108 0678 1
: 109 0679 1
: 110 0680 1 ++
: 111 0681 1 FUNCTIONAL DESCRIPTION:
: 112 0682 1 This routine erases the screen from the current location to
: 113 0683 1 the end of the screen, or to just before the message line
: 114 0684 1 if there is useful text in the message line.
: 115 0685 1
: 116 0686 1 FORMAL PARAMETERS:
: 117 0687 1
: 118 0688 1 NONE
: 119 0689 1
: 120 0690 1 IMPLICIT INPUTS:
: 121 0691 1
: 122 0692 1 EDT$SG_CS_LNO
: 123 0693 1 EDT$SG_SCR_LNS
: 124 0694 1 EDT$SG_MSGFLG
: 125 0695 1 EDT$SG_TI_TYP
: 126 0696 1 EDT$SG_SCR_CHGD
: 127 0697 1 EDT$SG_TI_WID
: 128 0698 1
: 129 0699 1 IMPLICIT OUTPUTS:
: 130 0700 1
: 131 0701 1 EDT$SG_MSGFLG
: 132 0702 1 EDT$SG_SCR_CHGD
: 133 0703 1
: 134 0704 1 ROUTINE VALUE:
: 135 0705 1
: 136 0706 1 NONE
: 137 0707 1
: 138 0708 1 SIDE EFFECTS:
: 139 0709 1
: 140 0710 1 NONE
: 141 0711 1
: 142 0712 1 --
: 143 0713 1
: 144 0714 2 BEGIN
: 145 0715 2
: 146 0716 2 EXTERNAL ROUTINE
: 147 0717 2 EDT$SC_ERATOEOOL : NOVALUE, ! Erase to end of line
: 148 0718 2 EDT$SC_POSCSIF : NOVALUE, ! Position the cursor
: 149 0719 2 EDT$FMT_LIT : NOVALUE; ! Output a string without expansion
: 150 0720 2
: 151 0721 2 EXTERNAL
: 152 0722 2 EDT$SG_CS_LNO, ! current cursor line
: 153 0723 2 EDT$SG_SCR_LNS, ! number of screen lines
: 154 0724 2 EDT$SG_MSGFLG, ! 1 = there is a message on the message line
: 155 0725 2 EDT$SG_TI_TYP, ! Terminal type
: 156 0726 2 EDT$SG_SCR_CHGD, ! non-zero = the screen must be erased completely
: 157 0727 2 EDT$SG_TI_WID; ! The width of the screen
: 158 0728 2
: 159 0729 2 LOCAL
: 160 0730 2 LINE_NO;

```

```
161 0731 2
162 0732 2 LINE_NO = .EDT$$G_CS_LNO;
163 0733 2
164 0734 2 IF (.LINE_NO LSS 0) THEN LINE_NO = 0;
165 0735 2
166 0736 2 !+
167 0737 2 !- If the screen has been mangled then there can be nothing useful on the message line.
168 0738 2 !-
169 0739 2
170 0740 2 IF (.EDT$$G_SCR_CHGD NEQ 0) THEN EDT$$G_MSGFLG = 0;
171 0741 2
172 0742 2 !+
173 0743 2 !- Use different algorithms depending on whether or not we must protect the message line.
174 0744 2 !-
175 0745 2
176 0746 2 IF (.EDT$$G_MSGFLG EQL 0)
177 0747 2 THEN
178 0748 2 !+
179 0749 2 !- Erase to the end of the screen.
180 0750 2 !-
181 0751 2 BEGIN
182 0752 2 EDT$$SC_POSCSIF (.LINE_NO, 0);
183 0753 2
184 0754 2 IF (.EDT$$G_TI_TYP EQL TERM_VT52)
185 0755 2 THEN
186 0756 2 EDT$$FMT_LIT (ERS_S_52, ERS_S_52_LEN)
187 0757 2 ELSE
188 0758 2
189 0759 2 IF (.EDT$$G_TI_TYP EQL TERM_VT100) THEN EDT$$FMT_LIT (ERS_S_100, ERS_S_100_LEN);
190 0760 2
191 0761 2 !+
192 0762 2 !- If we are erasing the whole screen then the screen is no longer mangled.
193 0763 2 !-
194 0764 2
195 0765 2 IF (.LINE_NO EQL 0) THEN EDT$$G_SCR_CHGD = 0;
196 0766 2
197 0767 2 END
198 0768 2 ELSE
199 0769 2 !+
200 0770 2 !- We must preserve the message line. If we have a VT100 and are at the home position
201 0771 2 !- we can use a "clear from beginning of screen to here" command.
202 0772 2 !-
203 0773 2 BEGIN
204 0774 2
205 0775 2 IF ((.EDT$$G_TI_TYP EQL TERM_VT100) AND (.LINE_NO EQL 0))
206 0776 2 THEN
207 0777 2 BEGIN
208 0778 2 EDT$$SC_POSCSIF (.EDT$$G_SCR_LNS - 1, .EDT$$G_TI_WID - 1);
209 0779 2 EDT$$FMT_LIT (ERS_S_100A, ERS_S_100A_LEN);
210 0780 2 END
211 0781 2 ELSE
212 0782 2 !+
213 0783 2 !- Erase each line separately up to the message line.
214 0784 2 !-
215 0785 2
216 0786 2 INCR I FROM .LINE_NO TO .EDT$$G_SCR_LNS - 1 DO
217 0787 2 BEGIN
```

```

: 218      0788  4      EDT$$$SC_POSCSIF (.I, 0);
: 219      0789  4      EDT$$$SC_ERATOEOL ();
: 220      0790  4      END;
: 221      0791  4      END;
: 222      0792  4      END;
: 223      0793  4      END;
: 224      0794  1      END;

```

! of routine EDT\$\$\$SC_ERAALL

```

.TITLE EDT$SCRESCR EDT$SCRESCR - erase screen
.IDENT \V04-000\

```

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

```

00 00 4A 1B 00000 P.AAA: .ASCII <27>\J\<0><0>
00 4A 5B 1B 00004 P.AAB: .ASCII <27>\[J\<0>
4A 31 5B 1B 00008 P.AAC: .ASCII <27>\[I\

```

```

ERS_S_52= P.AAA
ERS_S_100= P.AAB
ERS_S_100A= P.AAC

```

```

.EXTRN EDT$$$SC_ERATOEOL
.EXTRN EDT$$$SC_POSCSIF
.EXTRN EDT$$$FMT_LIT, EDT$$$G_CS_LNO
.EXTRN EDT$$$G_SCR_LNS, EDT$$$G_MSGFLG
.EXTRN EDT$$$G_TI_TYP, EDT$$$G_SCR_CHGD
.EXTRN EDT$$$G_TI_WID

```

```

01FC 00000 .ENTRY EDT$$$SC_ERAALL, Save R2,R3,R4,R5,R6,R7,R8 : 0676
58 00000000G 00 9E 00002 MOVAB EDT$$$FMT_LIT, R8
57 00000000G 00 9E 00009 MOVAB EDT$$$G_TI_TYP, R7
56 00000000G 00 9E 00010 MOVAB EDT$$$G_MSGFLG, R6
55 00000000G 00 9E 00017 MOVAB EDT$$$G_SCR_CHGD, R5
54 00000000G 00 9E 0001E MOVAB EDT$$$SC_POSCSIF, R4
52 00000000G 00 D0 00025 MOVL EDT$$$G_CS_LNO, LINE_NO : 0732
: 02 18 0002C BGEQ 1$ : 0734
: 52 D4 0002E CLRL LINE_NO
: 65 D5 00030 1$: TSTL EDT$$$G_SCR_CHGD : 0740
: 02 13 00032 BEQL 2$
: 66 D4 00034 CLRL EDT$$$G_MSGFLG
: 66 D5 00036 2$: TSTL EDT$$$G_MSGFLG : 0746
: 2A 12 00038 BNEQ 6$
: 7E D4 0003A CLRL -(SP) : 0752
: 52 DD 0003C PUSHL LINE_NO
64 02 FB 0003E CALLS #2, EDT$$$SC_POSCSIF
50 67 D0 00041 MOVL EDT$$$G_TI_TYP, R0 : 0754
01 50 D1 00044 CMPL R0, #1
: 07 12 00047 BNEQ 3$
: 02 DD 00049 PUSHL #2 : 0756
A6 AF 9F 0004B PUSHAB ERS_S_52
: 0A 11 0004E BRB 4$
02 50 D1 00050 3$: CMPL R0, #2 : 0759
: 08 12 00053 BNEQ 5$
: 03 CD 00055 PUSHL #3
: 9E AF 9F 00057 PUSHAB ERS_S_100
68 02 FB 0005A 4$: CALLS #2, EDT$$$FMT_LIT
: 52 D5 0005D 5$: TSTL LINE_NO : 0765

```


EDT\$SCRESCR
V04-000

EDT\$SCRESCR - erase screen
EDT\$SSC_ERAALL - erase screen

K 15
16-Sep-1984 01:32:48
14-Sep-1984 12:24:25

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]SCRESCR.BLI;1

Page 7
(3)

ED
VO

		41	12	0005F		BNEQ	10\$				
		65	D4	00061		CLRL	EDT\$SG_SCR_CHGD				
			04	00063		RET					
53	00000000G	00			01	C3	00064	6\$:	SUBL3	#1, EDT\$SG_SCR_LNS, R3	0746
		02			67	D1	0006C		CMPL	EDT\$SG_TI_TYP, #2	0778
					1B	12	0006F		BNEQ	7\$	0775
					52	D5	00071		TSTL	LINE_NO	
					17	12	00073		BNEQ	7\$	
7E	00000000G	00			01	C3	00075		SUBL3	#1, EDT\$SG_TI_WID, -(SP)	0778
					53	DD	0007D		PUSHL	R3	
		64			02	FB	0007F		CALLS	#2, EDT\$SSC_POSCSIF	
					04	DD	00082		PUSHL	#4	0779
					CF	9F	00084	FF74	PUSHAB	ERS_S_100A	
		68			02	FB	00088		CALLS	#2, EDT\$FMT_LIT	
						04	00088		RET		0775
					52	D7	0008C	7\$:	DECL	I	0786
					0E	11	0008E		BRB	9\$	
					7E	D4	00090	8\$:	CLRL	-(SP)	0788
					52	DD	00092		PUSHL	I	
		64			02	FB	00094		CALLS	#2, EDT\$SSC_POSCSIF	
	00000000G	00			00	FB	00097		CALLS	#0, EDT\$SSC_ERATOEOL	0789
EE		52			53	F3	0009E	9\$:	AOBLEQ	R3, I, 8\$	0786
					04	000A2	10\$:		RET		0794

: Routine Size: 163 bytes, Routine Base: _EDT\$CODE + 000C

: 225 0795 1
: 226 0796 1 !<BLF/PAGE>

EDT\$SCRESCR
V04-000

EDT\$SCRESCR - erase screen
EDT\$SC_ERAALL - erase screen

L 15
16-Sep-1984 01:32:48
14-Sep-1984 12:24:25

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]SCRESCR.BLI;1
Page 8
(4)

ED
VO

: 228 0797 1 END
: 229 0798 1
: 230 0799 0 ELUDOM

! of module EDT\$SCRESCR

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	175	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	3	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\$:SCRESCR/OBJ=OBJ\$:SCRESCR MSRC\$:SCRESCR.BLI/UPDATE=(ENH\$:SCRESCR)

: Size: 163 code + 12 data bytes
: Run Time: 00:13.2
: Elapsed Time: 00:16.1
: Lines/CPU Min: 3637
: Lexemes/CPU-Min: 9892
: Memory Used: 85 pages
: Compilation Complete

0138 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

