

[illegible]

EXE

Mod

EDT

ED

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EDSYN
LBA

110

```

SSSSSSSS  CCCCCCCC  RRRRRRRR  ZZZZZZZZZZ  AAAAAA  PPPPPPPP  SSSSSSSS  IIIIII  NN  NN
SSSSSSSS  CCCCCCCC  RRRRRRRR  ZZZZZZZZZZ  AAAAAA  PPPPPPPP  SSSSSSSS  IIIIII  NN  NN
SS  CC  RR  RR  ZZ  AA  AA  PP  PP  SS  II  NN  NN
SS  CC  RR  RR  ZZ  AA  AA  PP  PP  SS  II  NN  NN
SS  CC  RR  RR  ZZ  AA  AA  PP  PP  SS  II  NNNN  NN
SS  CC  RRRRRRRR  ZZ  AA  AA  PPPPPPPP  SSSSSS  II  NNNN  NN
SSSSSS  CC  RRRRRRRR  ZZ  AA  AA  PPPPPPPP  SSSSSS  II  NN  NN
SS  CC  RR  RR  ZZ  AA  AA  PP  SS  II  NN  NNNN
SS  CC  RR  RR  ZZ  AA  AA  PP  SS  II  NN  NNNN
SSSSSSSS  CCCCCCCC  RR  RR  ZZ  AA  AA  PP  SS  IIIIII  NN  NN
SSSSSSSS  CCCCCCCC  RR  RR  ZZ  AA  AA  PP  SSSSSSSS  IIIIII  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
LLLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLLL  IIIIII  SSSSSSSS

```



```
0001 0 %TITLE 'EDT$SCRZAPSIN - Mark lines to be repainted'
0002 0 MODULE EDT$SCRZAPSIN ( ! Mark lines to be repainted
0003 0 IDENT = 'V04-000' ! File: SCRZAPSIN.BLI Edit: JBS2012
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 marks screen lines for repaint
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 2-001 - Original. SMB 20-Sep-1982. This module is a complete
0045 1 rewrite of the old SCRZAPSIN module.
0046 1 2-002 - Modify to use new 48 bit macro. STS 01-Oct-1982
0047 1 2-003 - Modify to mark screen pointers for repaint. SMB 08-Oct-1982
0048 1 2-004 - Fix up the format a little. SMB 10-Oct-1982
0049 1 2-005 - Put deleted lines on the free list. JBS 24-Oct-1982
0050 1 2-006 - Maintain the various screen pointers. JBS 24-Oct-1982
0051 1 2-007 - Don't check on EDT$SA_CUR_SCRPTR. JBS 25-Oct-1982
0052 1 2-008 - Call SC_LNDEL instead of hard coding delete lines. SMB 26-Oct-1982
0053 1 2-009 - Maintain SCR_EDIT_MINPOS. JBS 27-Oct-1982
0054 1 2-010 - Add the third parameter. JBS 09-Nov-1982
0055 1 2-011 - Remove the edit buffer. JBS 27-Dec-1982
0056 1 2-012 - Add two more parameters. JBS 27-Dec-1982
0057 1 --
```

EDT\$SCRZAPSIN
V04-000

EDT\$SCRZAPSIN - Mark lines to be repainted

; 58

0058 1

¹₂
16-Sep-1984 01:49:52
14-Sep-1984 12:24:44

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

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EDT\$SCRZAPSIN
V04-000

EDT\$SCRZAPSIN - Mark lines to be repainted
Declarations

J 2
16-Sep-1984 01:49:52
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[EDT.SRC]SCRZAPSIN.BLI;1

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```
: 60      0059 1 %SBTTL 'Declarations'
: 61      0060 1
: 62      0061 1 TABLE OF CONTENTS:
: 63      0062 1
: 64      0063 1
: 65      0064 1 REQUIRE 'EDT$SRC:TRAROUNAM';
: 66      0503 1
: 67      0504 1 FORWARD ROUTINE
: 68      0505 1     EDT$SC_REPAINT : NOVALUE;
: 69      0506 1
: 70      0507 1
: 71      0508 1 INCLUDE FILES:
: 72      0509 1
: 73      0510 1
: 74      0511 1 REQUIRE 'EDT$SRC:EDTREQ';
: 75      0646 1
: 76      0647 1
: 77      0648 1 MACROS:
: 78      0649 1
: 79      0650 1     NONE
: 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  XSBTTL 'EDT$$$SC_REPAINT - mark screen lines for repaint'
: 94      0664 1
: 95      0665 1  GLOBAL ROUTINE EDT$$$SC_REPAINT (
: 96      0666 1      FIRST,
: 97      0667 1      LAST,
: 98      0668 1      MINPOS,
: 99      0669 1      MAXPOS,
100      0670 1      INSDEL_FLAG
101      0671 1      ) : NOVALUE =
102      0672 1
103      0673 1  ++
104      0674 1  FUNCTIONAL DESCRIPTION:
105      0675 1
106      0676 1      This routine marks specified lines in the screen data structure for
107      0677 1      repaint, indicating that those lines must be completely updated.
108      0678 1
109      0679 1  FORMAL PARAMETERS:
110      0680 1
111      0681 1      FIRST      The first line to repaint
112      0682 1
113      0683 1      LAST      The last line to repaint
114      0684 1
115      0685 1      MINPOS    First position modified, in first line
116      0686 1
117      0687 1      MAXPOS    Last position modified, in last line (if < 0, don't repaint the last line)
118      0688 1
119      0689 1      INSDEL_FLAG  0 = skip deleted and inserted lines,
120      0690 1      1 = free deleted lines, repaint inserted lines,
121      0691 1      -1 = should be no deleted or inserted lines
122      0692 1
123      0693 1  IMPLICIT INPUTS:
124      0694 1
125      0695 1      NONE
126      0696 1
127      0697 1  IMPLICIT OUTPUTS:
128      0698 1
129      0699 1      EDT$$A_FST_SCRPTR
130      0700 1      EDT$$A_LST_SCRPTR
131      0701 1
132      0702 1  ROUTINE VALUE:
133      0703 1
134      0704 1      NONE
135      0705 1
136      0706 1  SIDE EFFECTS:
137      0707 1
138      0708 1      Marks the specified lines as modified.
139      0709 1
140      0710 1  --
141      0711 1
142      0712 2  BEGIN
143      0713 2
144      0714 2  MAP
145      0715 2      FIRST : REF SCREEN LINE,
146      0716 2      LAST : REF SCREEN_LINE;
147      0717 2
148      0718 2  EXTERNAL ROUTINE
149      0719 2      EDT$$$SC_LNDEL;

```

! Delete a line from the structure

```
150 0720 2
151 0721 2
152 0722 2 EXTERNAL
153 0723 2 EDT$$A_FST_SCRPTR : REF SCREEN_LINE, ! First screen pointer in the data base
154 0724 2 EDT$$A_LST_SCRPTR : REF SCREEN_LINE; ! Last screen pointer in the data base
155 0725 2
156 0726 2 LOCAL
157 0727 2 NXT_SCRPTR : REF SCREEN_LINE,
158 0728 2 SCRPTR : REF SCREEN_LINE,
159 0729 2 REPAINT_DONE;
160 0730 2
161 0731 2 SCRPTR = .FIRST;
162 0732 2 REPAINT_DONE = 0;
163 0733 2 !+
164 0734 2 Update the lines for repaint until the last line is seen.
165 0735 2 Deleted lines, however, are put on the free list if so requested.
166 0736 2 !-
167 0737 2 WHILE (( NOT .REPAINT_DONE) AND (.SCRPTR NEQA 0)) DO
168 0738 3 BEGIN
169 0739 3
170 0740 4 IF ((.SCRPTR [SCR_EDIT_FLAGS] AND (SCR_EDIT_INSLN OR SCR_EDIT_DELLN)) NEQ 0)
171 0741 3 THEN
172 0742 4 BEGIN
173 0743 4
174 0744 4 CASE .INDEL_FLAG FROM 0 TO 1 OF
175 0745 4 SET
176 0746 4
177 0747 4 [0] : ! Skip over deleted and inserted lines
178 0748 5 BEGIN
179 0749 5 NXT_SCRPTR = .SCRPTR [SCR_NXT_LINE];
180 0750 5
181 0751 5 IF (.SCRPTR EQLA .LAST) THEN REPAINT_DONE = 1 ELSE SCRPTR = .NXT_SCRPTR;
182 0752 5
183 0753 4 END;
184 0754 4
185 0755 4 [1] : ! Free deleted lines, mark inserted lines for repaint
186 0756 5 BEGIN
187 0757 5 NXT_SCRPTR = .SCRPTR [SCR_NXT_LINE];
188 0758 5
189 0759 6 IF ((.SCRPTR [SCR_EDIT_FLAGS] AND SCR_EDIT_DELLN) NEQ 0)
190 0760 5 THEN
191 0761 6 BEGIN
192 0762 6 EDT$$$SC_LNDEL (.SCRPTR); ! Free the deleted line
193 0763 6 !+
194 0764 6 The first and last cells had better not have been set to zero.
195 0765 6 !-
196 0766 6 ASSERT (.EDT$$A_LST_SCRPTR NEQA 0);
197 0767 6 ASSERT (.EDT$$A_FST_SCRPTR NEQA 0);
198 0768 6 END
199 0769 5 ELSE
200 0770 6 BEGIN ! Mark the inserted line for repaint
201 0771 6 SCRPTR [SCR_EDIT_FLAGS] = .SCRPTR [SCR_EDIT_FLAGS] AND ( NOT SCR_EDIT_INSLN);
202 0772 6 SCRPTR [SCR_EDIT_FLAGS] = .SCRPTR [SCR_EDIT_FLAGS] OR SCR_EDIT_MODIFY;
203 0773 5 END;
204 0774 5
205 0775 5 IF (.SCRPTR EQLA .LAST) THEN REPAINT_DONE = 1 ELSE SCRPTR = .NXT_SCRPTR;
206 0776 5
```



```
207      0777 4      END;
208      0778 4
209      0779 4      [OUTRANGE] :
210      0780 4      ASSERT (0);
211      0781 4      TES;
212      0782 4
213      0783 4      END
214      0784 3      ELSE
215      0785 4      BEGIN
216      0786 4
217      0787 5      IF (.SCRPTR EQLA .FIRST)
218      0788 4      THEN
219      0789 4          SCRPTR [SCR_EDIT_MINPOS] = MINU (.SCRPTR [SCR_EDIT_MINPOS], .MINPOS)
220      0790 4      ELSE
221      0791 4          SCRPTR [SCR_EDIT_MINPOS] = 0;
222      0792 4
223      0793 5      IF ((.SCRPTR EQLA .LAST) AND (.MAXPOS GEQ 0))
224      0794 4      THEN
225      0795 4          SCRPTR [SCR_EDIT_MAXPOS] = MAXU (.SCRPTR [SCR_EDIT_MAXPOS], .MAXPOS)
226      0796 4      ELSE
227      0797 4          SCRPTR [SCR_EDIT_MAXPOS] = 255;
228      0798 4
229      0799 5      IF ((.SCRPTR NEQA .LAST) OR (.MAXPOS GEQ 0))
230      0800 4      THEN
231      0801 4          SCRPTR [SCR_EDIT_FLAGS] = .SCRPTR [SCR_EDIT_FLAGS] OR SCR_EDIT_MODIFY;
232      0802 4
233      0803 4      IF (.SCRPTR EQLA .LAST) THEN REPAINT_DONE = 1 ELSE SCRPTR = .SCRPTR [SCR_NXT_LINE];
234      0804 4
235      0805 3      END;
236      0806 3
237      0807 2      END;
238      0808 2
239      0809 1      END;
```

! of routine EDT\$\$\$SC_REPAINT

.TITLE EDT\$SCRZAPSIN EDT\$SCRZAPSIN - Mark lines to be
repainted

.IDENT \V04-000\

.EXTRN EDT\$\$\$SC_LNDEL, EDT\$\$\$A_FST_SCRPTR

.EXTRN EDT\$\$\$A_CST_SCRPTR

.EXTRN EDT\$\$\$INTER_ERR

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

.ENTRY EDT\$\$\$SC_REPAINT, Save R2,R3,R4,R5

MOVAB EDT\$\$\$INTER_ERR, R5

MOVL FIRST, SCRPTR

CLRL REPAINT_DONE

BLBC REPAINT_DONE, 2\$

RET

TSTL SCRPTR

BNEQ 3\$

RET

BITB 13(SCRPTR), #6

BEQL 11\$

CASEL INSDel_FLAG, #0, #1

```
003C 00000
55 00000000G 00 9E 00002
52 04 AC D0 00009
53 D4 0000D
01 53 E9 0000F 1$:
04 00012
52 D5 00013 2$:
01 12 00015
04 00017
06 0D A2 93 00018 3$:
51 13 0001C
01 00 14 AC CF 0001E
```

```
: 0665
: 0730
: 0731
: 0737
:
:
: 0740
: 0744
```


	000F		0009		00023 4\$:	.WORD	5\$-4\$,-		
	65		00	FB	00027	CALLS	6\$-4\$		0780
			E3	11	0002A	BRB	#0, EDT\$\$\$INTER_ERR		0744
	54	04	A2	D0	0002C	5\$:	MOV L	4(SCRPTR), NXT_SCRPTR	0749
			32	11	00030	BRB	9\$		0751
21	54	04	A2	D0	00032	6\$:	MOV L	4(SCRPTR), NXT_SCRPTR	0757
OD	A2		02	E1	00036	BBC	#2, 13(SCRPTR), 8\$		0759
			52	DD	0003B	PUSHL	SCRPTR		0762
00000000G	00		01	FB	0003D	CALLS	#1, EDT\$\$\$SC LNDEL		
		00000000G	00	D5	00044	TSTL	EDT\$\$\$A_LST_SCRPTR		0766
			03	12	0004A	BNEQ	7\$		
	65		00	FB	0004C	CALLS	#0, EDT\$\$\$INTER_ERR		
		00000000G	00	D5	0004F	7\$:	TSTL	EDT\$\$\$A_FST_SCRPTR	0767
			0D	12	00055	BNEQ	9\$		
	65		00	FB	00057	CALLS	#0, EDT\$\$\$INTER_ERR		
			08	11	0005A	BRB	9\$		0759
OD	A2		02	8A	0005C	8\$:	BICB2	#2, 13(SCRPTR)	0771
OD	A2		01	88	00060	BISB2	#1, 13(SCRPTR)		0772
08	AC		52	D1	00064	9\$:	CMPL	SCRPTR, LAST	0775
			5B	13	00068	BEQL	20\$		
	52		54	D0	0006A	MOV L	NXT_SCRPTR, SCRPTR		
			A0	11	0006D	10\$:	BRB	1\$	0744
04	AC		52	D1	0006F	11\$:	CMPL	SCRPTR, FIRST	0787
			14	12	00073	BNEQ	13\$		
	50	0B	A2	9A	00075	MOVZBL	11(SCRPTR), R0		0789
OC	AC		50	D1	00079	CMPL	R0, MINPOS		
			04	1B	0007D	BLEQU	12\$		
	50	0C	AC	D0	0007F	MOV L	MINPOS, R0		
0B	A2		50	90	00083	12\$:	MOVB	R0, 11(SCRPTR)	
			03	11	00087	BRB	14\$		
		0B	A2	94	00089	13\$:	CLRB	11(SCRPTR)	0791
			51	D4	0008C	14\$:	CLRL	R1	0793
08	AC		52	D1	0008E	CMPL	SCRPTR, LAST		
			1B	12	00092	BNEQ	16\$		
			51	D6	00094	INCL	R1		
		10	AC	D5	00096	TSTL	MAXPOS		
			14	19	00099	BLSS	16\$		
	50	0C	A2	9A	0009B	MOVZBL	12(SCRPTR), R0		0795
10	AC		50	D1	0009F	CMPL	R0, MAXPOS		
			04	1E	000A3	BGEQU	15\$		
	50	10	AC	D0	000A5	MOV L	MAXPOS, R0		
OC	A2		50	90	000A9	15\$:	MOVB	R0, 12(SCRPTR)	
			04	11	000AD	BRB	17\$		
OC	A2		01	8E	000AF	16\$:	MNEGB	#1, 12(SCRPTR)	0797
08	AC		52	D1	000B3	17\$:	CMPL	SCRPTR, LAST	0799
			05	12	000B7	BNEQ	18\$		
		10	AC	D5	000B9	TSTL	MAXPOS		
			04	19	000BC	BLSS	19\$		
OD	A2		01	88	000BE	18\$:	BISB2	#1, 13(SCRPTR)	0801
	05		51	E9	000C2	19\$:	BLBC	R1, 21\$	0803
	53		01	D0	000C5	20\$:	MOV L	#1, REPAINT_DONE	
			A3	11	000C8	BRB	10\$		
	52	04	A2	D0	000CA	21\$:	MOV L	4(SCRPTR), SCRPTR	0737
			9D	11	000CE	BRB	10\$		0809
			04	000D0	RET				

EDT\$SCRZAPSIN VO4-000 EDT\$SCRZAPSIN - Mark lines to be repainted
EDT\$SC_REPAINT - mark screen lines for repain

8 3
16-Sep-1984 01:49:52
14-Sep-1984 12:24:44

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

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; Routine Size: 209 bytes, Routine Base: _EDT\$CODE + 0000

; 240
; 241
0810 1
0811 1 !<BLF/PAGE>

EDT\$SCRZAPSIN
V04-000

EDT\$SCRZAPSIN - Mark lines to be repainted
EDT\$\$\$SC_REPAINT - mark screen lines for repain

C 3
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VAX-11 Bliss-32 V4.0-742
[EDT.SRC]SCRZAPSIN.BLI;1

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: 243 0812 1 END
: 244 0813 1
: 245 0814 0 ELUDOM

! of module EDT\$SCRZAPSIN

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	209	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	15	3	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\$:SCRZAPSIN/OBJ=OBJ\$:SCRZAPSIN MSRC\$:SCRZAPSIN.BLI/UPDATE=(ENH\$:S
CRZAPSIN)

: Size: 209 code + 0 data bytes
: Run Time: 00:16.2
: Elapsed Time: 00:19.0
: Lines/CPU Min: 3007
: Lexemes/CPU-Min: 11116
: Memory Used: 115 pages
: Compilation Complete

0140

AH-BT13A-SE
 VAX/VMS V4.0

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