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WW    WW  FFFFFFFF  RRRRRRRR  EEEEEEEEE  P P P P P P  LL    I I I I I
WW    WW  FFFFFFFF  RRRRRRRR  EEEEEEEEE  P P P P P P  LL    I I I I I
WW    WW  FF          RR          RR          PP          PP  LL    II
WW    WW  FF          RR          RR          PP          PP  LL    II
WW    WW  FF          RR          RR          PP          PP  LL    II
WW    WW  FF          RR          RR          PP          PP  LL    II
WW    WW  FFFFFFFF  RRRRRRRR  EEEEEEEEE  P P P P P P  LL    II
WW    WW  FFFFFFFF  RRRRRRRR  EEEEEEEEE  P P P P P P  LL    II
WW  WW  WW  FF          RR  RR          PP          PP  LL    II
WW  WW  WW  FF          RR  RR          PP          PP  LL    II
WWWW  WWW  FF          RR  RR          PP          PP  LL    II
WWWW  WWW  FF          RR  RR          PP          PP  LL    II
WW    WW  FF          RR          RR          PP          PP  LL    I I I I I
WW    WW  FF          RR          RR          PP          PP  LL    I I I I I

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LL    I I I I I  S S S S S S
LL    I I I I I  S S S S S S
LL    II          SS
LL    II          SS
LL    II          SS
LL    II          SS
LL    II          S S S S S
LL    II          S S S S S
LL    II          SS
LL    II          SS
LL    II          SS
LL    II          SS
LLLLLLLLLLLL  I I I I I  S S S S S S
LLLLLLLLLLLL  I I I I I  S S S S S S

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1 0001 0 %TITLE 'EDT$WFREPLIN - replace the current line'
2 0002 0 MODULE EDT$WFREPLIN ( ! Replace the current line
3 0003 0 IDENT = 'V04-000' ! File: WFREPLIN.BLI Edit: JBS1008
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 *
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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 Replace the current line with a specified line.
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: October 16, 1978
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. DJS 23-Feb-1981. This module was created by
45 0045 1 extracting routine EDT$RPL LN from module EDTWF.
46 0046 1 1-002 - Regularize headers. JBS 19-Mar-1981
47 0047 1 1-003 - Change index for line numbers from 10 to 15. SMB 18-Jan-1982
48 0048 1 1-004 - Remove original line numbers. SMB 28-Jan-1982
49 0049 1 1-005 - Do most replaces without doing delete/insert, to improve
50 0050 1 performance, especially when updating the screen. JBS 04-Oct-1982
51 0051 1 1-006 - Preserve EDT$SA SEL_POS if we must delete and then insert. JBS 09-Nov-1982
52 0052 1 1-007 - Don't disturb the screen data base if we must delete and then insert. JBS 01-Dec-1982
53 0053 1 1-008 - No longer need to decrement EDT$$_WK_INSCNT; now done by EDT$$_DEL_CURLN. JBS 01-Jun-1983
54 0054 1 1-009 - Remove edit 1-008 : too many side effects. JBS 01-Jun-1983
55 0055 1 --
56 0056 1

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```
58 0057 1 %SBTTL 'Declarations'  
59 0058 1  
60 0059 1 : TABLE OF CONTENTS:  
61 0060 1 :  
62 0061 1 :  
63 0062 1 REQUIRE 'EDT$SRC:TRAROUNAM';  
64 0501 1  
65 0502 1 FORWARD ROUTINE  
66 0503 1 EDT$SRPL_LN : NOVALUE;  
67 0504 1  
68 0505 1 :  
69 0506 1 : INCLUDE FILES:  
70 0507 1 :  
71 0508 1 :  
72 0509 1 REQUIRE 'EDT$SRC:EDTREQ';  
73 0644 1 :  
74 0645 1 :  
75 0646 1 : MACROS:  
76 0647 1 :  
77 0648 1 : NONE  
78 0649 1 :  
79 0650 1 : EQUATED SYMBOLS:  
80 0651 1 :  
81 0652 1 : NONE  
82 0653 1 :  
83 0654 1 : OWN STORAGE:  
84 0655 1 :  
85 0656 1 : NONE  
86 0657 1 :  
87 0658 1 : EXTERNAL REFERENCES:  
88 0659 1 :  
89 0660 1 : In the routine
```

```

91 0661 1 %SBTTL 'EDT$$RPL_LN - replace the current line'
92 0662 1
93 0663 1 GLOBAL ROUTINE EDT$$RPL_LN (          ! Replace the current line
94 0664 1     NEWLINE,                          ! Address of the new line
95 0665 1     LEN                               ! Length of the new line
96 0666 1     ) : NOVALUE =
97 0667 1
98 0668 1 !++
99 0669 1 ! FUNCTIONAL DESCRIPTION:
100 0670 1
101 0671 1     Replace the current line. If the replacement line is the same size as
102 0672 1     the current line, just copy the new one in its place, otherwise, delete
103 0673 1     the current line and insert the new one.
104 0674 1
105 0675 1 ! FORMAL PARAMETERS:
106 0676 1
107 0677 1     NEWLINE                a pointer to the new line
108 0678 1
109 0679 1     LEN                    its length
110 0680 1
111 0681 1 ! IMPLICIT INPUTS:
112 0682 1
113 0683 1     EDT$$A_WK_LN
114 0684 1     EDT$$G_WK_MODFD
115 0685 1     EDT$$L_LNDO
116 0686 1     EDT$$A_CUR_BUF
117 0687 1     EDT$$A_WK_BUK
118 0688 1
119 0689 1 ! IMPLICIT OUTPUTS:
120 0690 1
121 0691 1     EDT$$A_WK_LN
122 0692 1     EDT$$A_CUR_BUF
123 0693 1     EDT$$A_WK_BUK
124 0694 1     EDT$$L_WK_INSCNT
125 0695 1
126 0696 1 ! ROUTINE VALUE:
127 0697 1
128 0698 1     NONE
129 0699 1
130 0700 1 ! SIDE EFFECTS:
131 0701 1
132 0702 1     NONE
133 0703 1
134 0704 1 ! --
135 0705 1
136 0706 2     BEGIN
137 0707 2
138 0708 2     EXTERNAL ROUTINE
139 0709 2     EDT$$DEL_CURLN : NOVALUE,
140 0710 2     EDT$$INS_LN : NOVALUE,
141 0711 2     EDT$$RD_PrvLN;
142 0712 2
143 0713 2     EXTERNAL
144 0714 2     EDT$$A_WK_LN : REF LIN_BLOCK,          ! Pointer to current line
145 0715 2     EDT$$G_WK_MODFD,                    ! Flag indicating bucket was modified
146 0716 2     EDT$$L_LNDO : LNOVECTOR [14],        ! 48-bit line numbers
147 0717 2     EDT$$A_CUR_BUF : REF TBCB_BLOCK,      ! Current text buffer control block

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```
148 0718 2      EDT$SA_WK_BUK : REF BLOCK [WF_BUKT_SIZE, BYTE] FIELD (WFB_FIELDS),
149 0719 2      EDT$SA_SEC_POS,          ! Select position
150 0720 2      EDT$SG_SCR_REBUILD,      ! 1 = don't touch the screen data base
151 0721 2      EDT$SL_WK_INSCNT : LN_BLOCK; ! Number of records inserted during this insert sequence
152 0722 2
153 0723 2      LOCAL
154 0724 2      SAVE_LIN : LN_BLOCK,
155 0725 2      SAVE_SELPOS,
156 0726 2      SIZE,
157 0727 2      OLD_LEN,          ! Length of the old line
158 0728 2      SOURCE,
159 0729 2      REMAINING,
160 0730 2      SAVE_REBUILD;
161 0731 2
162 0732 2      +
163 0733 2      Check for a replacement which does not change the length of the
164 0734 2      line, and leave the work-file block structure unaltered. This
165 0735 2      is not done only for speed; EDT will break if it is removed.
166 0736 2      -
167 0737 2      OLD_LEN = .EDT$SA_WK_LN [LIN_LENGTH];
168 0738 2
169 0739 2      IF (.OLD_LEN EQL .LEN)
170 0740 2      THEN
171 0741 2      BEGIN
172 0742 2      EDT$SCPY MEM (.LEN, .NEWLINE, EDT$SA_WK_LN [LIN_TEXT]);
173 0743 2      EDT$SG_WK_MODFD = 1;
174 0744 2      RETURN;
175 0745 2      END;
176 0746 2
177 0747 2      +
178 0748 2      Check for a replacement which neither empties the block nor causes it
179 0749 2      to overflow. Do such a replacement directly in the block, without
180 0750 2      calling the more general routines which delete and insert lines.
181 0751 2      -
182 0752 2
183 0753 2      IF (((.EDT$SA_WK_BUK [WFB_END] - .OLD_LEN + .LEN) LSS WF_BUKT_SIZE) AND !
184 0754 2      (.EDT$SA_CUR_BUF [TBCB_LINE_ADDR] NEQ .EDT$SA_WK_BUK [WFB_END]) AND !
185 0755 2      (.EDT$SA_CUR_BUF [TBCB_LINE_ADDR] NEQ WFB_FIXED_SIZE))
186 0756 2      THEN
187 0757 2      BEGIN
188 0758 2      +
189 0759 2      Update the character count for this buffer.
190 0760 2      -
191 0761 2      EDT$SA_CUR_BUF [TBCB_CHAR_COUNT] = .EDT$SA_CUR_BUF [TBCB_CHAR_COUNT] - .OLD_LEN + .LEN;
192 0762 2      +
193 0763 2      Make room in the block for the line. This may require either increasing or decreasing
194 0764 2      the amount of space now available.
195 0765 2      -
196 0766 2      SIZE = .OLD_LEN + LIN_FIXED_SIZE + 1;
197 0767 2      SOURCE = CH$PLUS (.EDT$SA_WK_LN, .SIZE);
198 0768 2      REMAINING = .EDT$SA_WK_BUK [WFB_END] - .EDT$SA_CUR_BUF [TBCB_LINE_ADDR] - .SIZE;
199 0769 2      EDT$SA_WK_BUK [WFB_END] = .EDT$SA_WK_BUK [WFB_END] - .OLD_LEN + .LEN;
200 0770 2
201 0771 2      IF (.REMAINING NEQ 0) !
202 0772 2      THEN
203 0773 2      EDT$SCPY_MEM (.REMAINING, .SOURCE, .EDT$SA_WK_LN + .LEN + LIN_FIXED_SIZE + 1);
204 0774 2
```

```

205 0775 3      EDT$$A_WK_LN [LIN LENGTH] = .LEN;
206 0776 3      CH$WCHAR 7,LEN, EDT$$CPY_MEM (.LEN, .NEWLINE, EDT$$A_WK_LN [LIN_TEXT]);
207 0777 3      EDT$$G_WK_MODFD = 1;
208 0778 3      RETURN;
209 0779 3      END;
210 0780 2
211 0781 2
212 0782 2      !+ This is a complex case. Delete the old line and insert the new one.
213 0783 2      -
214 0784 2      MOVELINE (EDT$$A_WK_LN [LIN_NUM], SAVE_LIN);
215 0785 2      SAVE_SELPOS = .EDT$$A_SEL_POS;
216 0786 2      SAVE_REBUILD = .EDT$$G_SCR_REBUILD;
217 0787 2      EDT$$G_SCR_REBUILD = 1;
218 0788 2      EDT$$DEL_CURLN ();
219 0789 2      SUBLINE (NUMBER ONE, EDT$$L_WK_INSCNT);
220 0790 2      EDT$$INS_LN (.NEWLINE, .LEN);
221 0791 2      EDT$$RD_PRVLN ();
222 0792 2      EDT$$G_SCR_REBUILD = .SAVE_REBUILD;
223 0793 2      EDT$$A_SEL_POS = .SAVE_SELPOS;
224 0794 2      MOVELINE (SAVE_LIN, EDT$$A_WK_LN [LIN_NUM]);
225 0795 2      RETURN;
226 0796 1      END;

```

! of routine EDT\$\$RPL\_LN

```

.TITLE EDT$WFREPLIN EDT$WFREPLIN - replace the current
       line
.IDENT  \V04-000\
.EXTRN EDT$$DEL_CURLN, EDT$$INS_LN
.EXTRN EDT$$RD_PRVLN, EDT$$A_WK_LN
.EXTRN EDT$$G_WK_MODFD
.EXTRN EDT$$L_LN00, EDT$$A_CUR_BUF
.EXTRN EDT$$A_WK_BUK, EDT$$A_SEL_POS
.EXTRN EDT$$G_SCR_REBUILD
.EXTRN EDT$$L_WK_INSCNT

```

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

				OFFC 00000						
				5B 00000000G	00	9E 00002	MOVAB	EDT\$\$G_SCR_REBUILD, R11		
				5A 00000000G	00	9E 00009	MOVAB	EDT\$\$A_CUR_BUF, R10		
				59 00000000G	00	9E 00010	MOVAB	FIRST_WORD, R9		
				5E	08	C2 00017	SUBL2	#8, SP		
				57 00000000G	00	D0 0001A	MOVL	EDT\$\$A_WK_LN, R7	0737	
				56	67	9A 00021	MOVZBL	(R7), OLD_LEN		
				58	08	AC D0 00024	MOVL	LEN, R8	0739	
				58	56	D1 00028	CMPL	OLD_LEN, R8		
					08	12 0002B	BNEQ	1\$		
07	A7	04	BC		58	28 0002D	MOVC3	R8, @NEWLINE, 7(R7)	0742	
					61	11 00033	BRB	3\$	0743	
				52 00000000G	00	D0 00035	1\$:	MOVL	EDT\$\$A_WK_BUK, R2	0753
	53	04	A2		56	C3 0003C	SUBL3	OLD_LEN, 4(R2), R3		
			53		58	C0 00041	ADDL2	R8, R3		
		00000200	8F		53	D1 00044	CMPL	R3, #512		
					51	18 0004B	BGEQ	4\$		
				50	6A	D0 0004D	MOVL	EDT\$\$A_CUR_BUF, R0	0754	

		04	A2		60	D1	00050		CMPL	(R0), 4(R2)		
					48	13	00054		BEQL	4\$		
			50		6A	D0	00056		MOVL	EDT\$\$A_CUR_BUF, R0		0755
			08		60	D1	00059		CMPL	(R0), #8		
					40	13	0005C		BEQL	4\$		
					6A	D0	0005E		MOVL	EDT\$\$A_CUR_BUF, R1		0761
1E	50	1E	A1		56	C3	00061		SUBL3	OLD_LEN, 30(R1), R0		
	A1				58	C1	00066		ADDL3	R8, R0, 30(R1)		
					50	A6	9E	0006B	MOVAB	8(R6), SIZE		0766
	54			08	50	C1	0006F		ADDL3	SIZE, R7, SOURCE		0767
	51		04		61	C3	00073		SUBL3	(R1), 4(R2), R1		0768
	50				50	C3	00078		SUBL3	SIZE, R1, REMAINING		
			04		53	D0	0007C		MOVL	R3, 4(R2)		0769
					50	D5	00080		TSTL	REMAINING		0771
					06	13	00082		BEQL	2\$		
08	A847				50	28	00084		MOVC3	REMAINING, (SOURCE), 8(R8)[R7]		0773
					58	90	0008A	2\$:	MOVB	R8, (R7)		0775
07	A7		04		58	28	0008D		MOVC3	R8, @NEWLINE, 7(R7)		0776
					58	90	00093		MOVB	R8, (R3)		
					01	D0	00096	3\$:	MOVL	#1, EDT\$\$G_WK_MODFD		0777
					04		0009D		RET			0776
	6E		01		06	28	0009E	4\$:	MOVC3	#6, 1(R7), SAVE_LIN		0784
					00	D0	000A3		MOVL	EDT\$\$A_SEL_POS, -SAVE_SELPOS		0785
					6B	D0	000AA		MOVL	EDT\$\$G_SCR_REBUILD, SAVE_REBUILD		0786
					01	D0	000AD		MOVL	#1, EDT\$\$G_SCR_REBUILD		0787
					00	FB	000B0		CALLS	#0, EDT\$\$DEL_CORLN		0788
					50	D0	000B7		MOVL	FIRST_WORD, SAVE		0789
					69	D7	000BA		DECL	FIRST_WORD		
					69	D1	000BC		CMPL	FIRST_WORD, SAVE		
					03	1B	000BF		BLEQU	5\$		
					04	A9	B7	000C1	DECW	NEXT_WORD		
					58	DD	000C4	5\$:	PUSHL	R8		0790
					04	AC	DD	000C6	PUSHL	NEWLINE		
					02	FB	000C9		CALLS	#2, EDT\$\$INS_LN		
					00	FB	000D0		CALLS	#0, EDT\$\$RD_PRLN		0791
					52	D0	000D7		MOVL	SAVE_REBUILD, EDT\$\$G_SCR_REBUILD		0792
					53	D0	000DA		MOVL	SAVE_SELPOS, EDT\$\$A_SEL_POS		0793
					00	D0	000E1		MOVL	EDT\$\$A_WK_LN, R0		0794
01	A0				06	28	000E8		MOVC3	#6, SAVE_LIN, 1(R0)		
					04		000ED		RET			0796

; Routine Size: 238 bytes, Routine Base: \_EDT\$CODE + 0000

; 227 0797 1  
; 228 0798 1 !<BLF/PAGE>



EDT\$WFREPLIN  
V04-000

EDT\$WFREPLIN - replace the current line  
EDT\$SRPL\_LN - replace the current line

F 14  
16-Sep-1984 02:13:03  
14-Sep-1984 12:25:42

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

Page 7

EDT  
V04

: 230 0799 1 END  
: 231 0800 1  
: 232 0801 0 ELUDOM

! of module EDT\$WFREPLIN

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	238	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	48	12	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\$:WFREPLIN/OBJ=OBJ\$:WFREPLIN MSRCS\$:WFREPLIN.BLI/UPDATE=(ENHS\$:WFREPLIN)

: Size: 238 code + 0 data bytes  
: Run Time: 00:16.3  
: Elapsed Time: 00:20.0  
: Lines/CPU Min: 2955  
: Lexemes/CPU-Min: 11904  
: Memory Used: 121 pages  
: Compilation Complete



UMSG LIS	WFCOPLIN LIS										
USSTRINS LIS										WFCOPY LIS	
			WFDELLIN LIS	WFGETBKT LIS	WFOPNBUF LIS	WFREABCK LIS	WFREAFWD LIS				
											WFSTRINS LIS
	WFAPPBKT LIS										
				WFCLEAR LIS							
UGBUFFER LIS											
	USSUBS LIS		WFDEL BKT LIS								WFSPLBKT LIS
						WFLOCLIN LIS	WFRBKT LIS				
						WFINSLIN LIS		WFREACUR LIS	WFREAINP LIS		WFTOP LIS
										WFREPLIN LIS	
	WFBOTTOM LIS										
			WFCOPY LIS								