


```
LL      TTTTTTTTTT  AAAAAA  DDDDDDDD  JJ
LL      TTTTTTTTTT  AAAAAA  DDDDDDDD  JJ
LL      TT          AA      AA  DD      DD  JJ
LL      TT          AA      AA  DD      DD  JJ
LL      TT          AA      AA  DD      DD  JJ
LL      TT          AA      AA  DD      DD  JJ
LL      TT          AA      AA  DD      DD  JJ
LL      TT          AA      AA  DD      DD  JJ
LL      TT          AAAAAAAAAA DD      DD  JJ
LL      TT          AAAAAAAAAA DD      DD  JJ
LL      TT          AA      AA  DD      DD  JJ
LL      TT          AA      AA  DD      DD  JJ
LL      TT          AA      AA  DDDDDDDD JJJJJJ
LLLLLLLLLLLL TT          AA      AA  DDDDDDDD JJJJJJ
LLLLLLLLLLLL
```

```
....
....
....
....
```

```
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
LL      IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLLL
```



```
0001 0 %TITLE 'EDT$LTADJ - TABS ADJUST line-mode command'
0002 0 MODULE EDT$LTADJ ( ! TABS ADJUST line-mode command
0003 0 IDENT = 'V04-000' ! File: LTADJ.BLI Edit: JBS1011
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 executes the line mode TAB ADJUST command.
0037 1
0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0039 1
0040 1 AUTHOR: Bob Kushlis, CREATION DATE: February 3, 1978
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 1-001 - Original. DJS 30-JAN-1981. This module was created by
0045 1 extracting the routine EDT$TSADJ_CMD from the module EXEC.BLI.
0046 1 1-002 - Regularize headers. JBS 20-Mar-1981
0047 1 1-003 - Stop processing on bad select range. SMB 01-Jul-1982
0048 1 1-004 - Mark the screen changed, unless we get an error. JBS 07-Jul-1982
0049 1 1-005 - Put EDT$STST_EOB in line. STS 22-Sep-1982
0050 1 1-006 - Remove EDT$SG_SCR_CHGD, the new screen logic doesn't need it. JBS 09-Oct-1982
0051 1 1-007 - Put code for edt$rng_posfrst in line. STS 11-Oct-1982
0052 1 1-008 - Can't restore from saved position because we are modifying the work file,
0053 1 so the saved position may be invalid. Also, mark lines as changed in case
0054 1 we are under EXT. JBS 21-Dec-1982
0055 1 1-009 - Change the call to EDT$MRK_LNCHG. JBS 27-Dec-1982
0056 1 1-010 - Don't forget to initialize NLINES. JBS 17-Jan-1983
0057 1 1-011 - Don't build a line longer than 255 bytes. JBS 30-Aug-1983
```


EDT\$LTADJ
V04-000

EDT\$LTADJ - TABS ADJUST line-mode command

F 15
16-Sep-1984 01:02:30
14-Sep-1984 12:23:45

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DISK\$VMSMASTER:[EDT.SRC]LTADJ.BLI;1 Page (1) 2

: 58
: 59

0058 1 !--
0059 1

EDT\$LTADJ
V04-000

EDT\$LTADJ - TABS ADJUST line-mode command
Declarations

G 15
16-Sep-1984 01:02:30
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DISK\$VMSMASTER:[EDT.SRC]LTADJ.BLI;1

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```

: 61      0060 1 %SBTTL 'Declarations'
: 62      0061 1
: 63      0062 1 : TABLE OF CONTENTS:
: 64      0063 1 :
: 65      0064 1
: 66      0065 1 REQUIRE 'EDTSRC:TRAROUNAM';
: 67      0504 1
: 68      0505 1 FORWARD ROUTINE
: 69      0506 1     EDT$TSADJ_CMD : NOVALUE;
: 70      0507 1
: 71      0508 1 :
: 72      0509 1 : INCLUDE FILES:
: 73      0510 1 :
: 74      0511 1
: 75      0512 1 REQUIRE 'EDTSRC: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 :     NONE
: 85      0656 1 :
: 86      0657 1 : OWN STORAGE:
: 87      0658 1 :
: 88      0659 1 :     NONE
: 89      0660 1 :
: 90      0661 1 : EXTERNAL REFERENCES:
: 91      0662 1 :
: 92      0663 1 :     In the routine
```

! Process the TABS ADJUST command

EDT\$LTADJ
V04-000

EDT\$LTADJ - TABS ADJUST line-mode command
EDT\$TSADJ_CMD - TABS ADJUST line-mode command

H 15
16-Sep-1984 01:02:30
14-Sep-1984 12:23:45

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

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```

94 0664 1 %SBTTL 'EDT$TSADJ_CMD - TABS ADJUST line-mode command'
95 0665 1
96 0666 1 GLOBAL ROUTINE EDT$TSADJ_CMD ! TABS ADJUST line-mode command
97 0667 1 : NOVALUE =
98 0668 1
99 0669 1 !++
100 0670 1 FUNCTIONAL DESCRIPTION:
101 0671 1
102 0672 1 Command processing routine for TABS ADJUST.
103 0673 1
104 0674 1 Process each line in the range as follows:
105 0675 1
106 0676 1 1. Count the leading tabs and spaces.
107 0677 1 2. Remove them all.
108 0678 1 3. Add the tab increment value.
109 0679 1 4. Re-insert a standard sequence of tabs and spaces.
110 0680 1
111 0681 1 FORMAL PARAMETERS:
112 0682 1
113 0683 1 NONE
114 0684 1
115 0685 1 IMPLICIT INPUTS:
116 0686 1
117 0687 1 EDT$G_TAB_SIZ
118 0688 1 EDT$T_LN_BUF
119 0689 1 EDT$A_WK_LN
120 0690 1 EDT$A_EXE_CURCMD
121 0691 1
122 0692 1 IMPLICIT OUTPUTS:
123 0693 1
124 0694 1 EDT$G_LN_LEN
125 0695 1
126 0696 1 ROUTINE VALUE:
127 0697 1
128 0698 1 NONE
129 0699 1
130 0700 1 SIDE EFFECTS:
131 0701 1
132 0702 1 NONE
133 0703 1
134 0704 1 --
135 0705 1
136 0706 2 BEGIN
137 0707 2
138 0708 2 EXTERNAL ROUTINE
139 0709 2 EDT$FMT_CHWID, ! Compute the width of a character
140 0710 2 EDT$PUT_CH : NOVALUE,
141 0711 2 EDT$NXT_LNRNG, ! Get next line in range
142 0712 2 EDT$RNG_REPOS,
143 0713 2 EDT$RPL_LN, ! Replace a line in the work file
144 0714 2 EDT$RD_PRVLN, ! Read the previous line from the work file
145 0715 2 EDT$MRK_LNCHG : NOVALUE; ! Mark a line as changed
146 0716 2
147 0717 2 EXTERNAL
148 0718 2 EDT$G_TAB_SIZ,
149 0719 2 EDT$G_RNG_FRSTLN,
150 0720 2 EDT$Z_RNG_SAVPOS : POS_BLOCK,
```



```

151 0721 2      EDT$A_CUR_BUF : REF TBCB_BLOCK,
152 0722 2      EDT$Z_RNG_ORIGPOS : POS_BLOCK,
153 0723 2      EDT$T_LN_BUF : VECTOR [255, BYTE],
154 0724 2      EDT$G_LN_LEN,
155 0725 2      EDT$Z_EOB_LN,
156 0726 2      EDT$A_WK_CN : REF LIN_BLOCK,
157 0727 2      EDT$A_EXE_CURCMD : REF NODE_BLOCK;      ! Pointer to the current command.
158 0728 2
159 0729 2      LOCAL
160 0730 2      RANGE : REF NODE_BLOCK,      ! The range block
161 0731 2      CP,      ! Character position
162 0732 2      EP,      ! Position of end of line
163 0733 2      TC,      ! Column number
164 0734 2      NLINES;      ! Number of lines processed
165 0735 2
166 0736 2      !+
167 0737 2      !- Examine the range and, if null, default to SELECT.
168 0738 2
169 0739 2      RANGE = .EDT$A_EXE_CURCMD [RANGE1];
170 0740 2
171 0741 2      IF (.RANGE [RAN_TYPE] EQL RAN_NULL) THEN RANGE [RAN_TYPE] = RAN_SELECT;
172 0742 2
173 0743 2      !+
174 0744 2      !- Position to the first line in the range.
175 0745 2
176 0746 2      EDT$G_RNG_FRSTLN = 1;
177 0747 2      EDT$CPY_MEM (POS_SIZE, .EDT$A_CUR_BUF, EDT$Z_RNG_ORIGPOS);
178 0748 2
179 0749 2      IF ( NOT EDT$RNG_REPOS (.RANGE)) THEN RETURN;
180 0750 2
181 0751 2      !+
182 0752 2      !- Process each line in the range.
183 0753 2
184 0754 2      NLINES = 0;
185 0755 2
186 0756 2      WHILE (EDT$NXT_LNRNG (0) AND (.EDT$A_WK_LN NEQA EDT$Z_EOB_LN)) DO
187 0757 2      BEGIN
188 0758 2
189 0759 2      !+
190 0760 2      !- Initialize pointers to the beginning and end of the current line.
191 0761 2      CP = CH$PTR (EDT$A_WK_LN [LIN_TEXT]);
192 0762 2      EP = CH$PLUS (.CP, .EDT$A_WK_CN [LIN_LENGTH]);
193 0763 2
194 0764 2      !+
195 0765 2      !- Initialize the current column number.
196 0766 2      TC = 0;
197 0767 2
198 0768 2      !+
199 0769 2      !- Look for the first non-blank, non-tab character.
200 0770 2
201 0771 2      WHILE CH$PTR_NEQ (.CP, .EP) DO
202 0772 2      BEGIN
203 0773 2
204 0774 2      SELECTONE CH$RCHAR (.CP) OF
205 0775 2      SET
206 0776 2
207 0777 2      [%C' ']:
```



```
208 0778 4 TC = .TC + 1;
209 0779 4
210 0780 4 [ASC_K_TAB] :
211 0781 4 TC = .TC + EDT$FMT_CHWID (ASC_K_TAB, .TC);
212 0782 4
213 0783 4 [OTHERWISE] :
214 0784 4 EXITLOOP;
215 0785 4 TES;
216 0786 4
217 0787 4 CP = CH$PLUS (.CP, 1);
218 0788 4 END;
219 0789 4
220 0790 4 +
221 0791 4 Determine the number of columns the line should be indented. Do
222 0792 4 not let it go below zero.
223 0793 4 -
224 0794 4 TC = MAX (0, .TC + .EDT$A_EXE_CURCMD [TAB_COUNT]*.EDT$G_TAB_SIZ);
225 0795 4 +
226 0796 4 Do not try to build a line longer than 255 bytes.
227 0797 4 -
228 0798 4
229 0799 4 IF ((.TC + CH$DIFF (.EP, .CP)) GTR 255) THEN TC = 255 - CH$DIFF (.EP, .CP);
230 0800 4
231 0801 4 EDT$G_LN_LEN = 0;
232 0802 4 +
233 0803 4 Insert tabs and spaces into the new line.
234 0804 4 -
235 0805 4
236 0806 4 INCR I FROM 1 TO .TC/8 DO
237 0807 4 EDT$PUT_CH (ASC_K_TAB);
238 0808 4
239 0809 4 INCR I FROM 1 TO .TC MOD 8 DO
240 0810 4 EDT$PUT_CH (' ');
241 0811 4
242 0812 4 +
243 0813 4 And move the remainder of the old line.
244 0814 4 -
245 0815 4 EDT$CPY_MEM (CH$DIFF (.EP, .CP), .CP, CH$PTR (EDT$T_LN_BUF, .EDT$G_LN_LEN));
246 0816 4 EDT$G_LN_LEN = .EDT$G_LN_LEN + CH$DIFF (.EP, .CP);
247 0817 4 ASSERT (.EDT$G_LN_LEN LEQ 255);
248 0818 4 +
249 0819 4 Replace it in the text buffer.
250 0820 4 -
251 0821 4 EDT$MRK_LNCHG (SCR_EDIT MODIFY, 0);
252 0822 4 EDT$RPL_LN (EDT$T_LN_BUF, .EDT$G_LN_LEN);
253 0823 4 NLINES = .NLINES + 1;
254 0824 4 END;
255 0825 4
256 0826 4 +
257 0827 4 Re-position to first line in the range.
258 0828 4 We cannot use the saved position because we have modified the work file,
259 0829 4 so any saved position will be inaccurate.
260 0830 4 -
261 0831 4 NLINES = .NLINES - 1;
262 0832 4
263 0833 4 WHILE (.NLINES GTR 0) DO
264 0834 4 BEGIN
```


EDT\$LTADJ
V04-000

EDT\$LTADJ - TABS ADJUST line-mode command
EDT\$TSADJ_CMD - TABS ADJUST line-mode command

K 15
16-Sep-1984 01:02:30
14-Sep-1984 12:23:45

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

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```
: 265      0835 3      EDT$SRD_PVLN ();  
: 266      0836 3      NLINES = .NLINES - 1;  
: 267      0837 2      END;  
: 268      0838 2  
: 269      0839 1      END;
```

! of routine EDT\$TSADJ_CMD

.TITLE EDT\$LTADJ EDT\$LTADJ - TABS ADJUST line-mode com
mand

.IDENT \V04-000\

.EXTRN EDT\$FMT_CHWID, EDT\$SPUT_CH
.EXTRN EDT\$NXT_LNRNG, EDT\$RNG_REPOS
.EXTRN EDT\$RPL_LN, EDT\$SRD_PVLN
.EXTRN EDT\$MRK_LNCHG, EDT\$G_TAB_SIZ
.EXTRN EDT\$G_RNG_FRSTLN
.EXTRN EDT\$Z_RNG_SAVPOS
.EXTRN EDT\$A_CUR_BUF, EDT\$Z_RNG_ORIGPOS
.EXTRN EDT\$T_LN_BUF, EDT\$G_LN_LEN
.EXTRN EDT\$Z_EOB_LN, EDT\$A_WK_LN
.EXTRN EDT\$A_EXE_CURCMD
.EXTRN EDT\$INTER_ERR

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

.ENTRY EDT\$TSADJ_CMD, Save R2, R3, R4, R5, R6, R7, R8, - : 0666
R9, R10, R11

MOVAB EDT\$G_LN_LEN, R11 : 0739
MOVL EDT\$A_EXE_CURCMD, R0

MOVL 4(R0), RANGE : 0741
TSTB 1(RANGE)

BNEQ 1\$: 0746
MOVB #12, 1(RANGE)

MOVL #1, EDT\$G_RNG_FRSTLN : 0747
MOVL EDT\$A_CUR_BUF, R0

MOVC3 #14, (R0), EDT\$Z_RNG_ORIGPOS : 0749
PUSHL RANGE

CALLS #1, EDT\$RNG_REPOS
BLBS R0, 2\$

RET : 0754
CLRL NLINES

CLRL -(SP) : 0756
CALLS #1, EDT\$NXT_LNRNG

BLBS R0, 5\$
BRW 17\$

MOVAB EDT\$Z_EOB_LN, R0
CMPL EDT\$A_WK_LN, R0

BEQL 4\$: 0761
MOVL EDT\$A_WK_LN, R0

MOVAB 7(R0), CP : 0762
MOVZBL (R0), EP

ADDL2 CP, EP : 0766
CLRL TC

CMPL CP, EP : 0771
BEQL 9\$

CMPB (CP), #32 : 0777
BNEQ 7\$

```
OFFC 00000  
5B 00000000G 00 9E 00002  
50 00000000G 00 D0 00009  
56 04 A0 D0 00010  
01 A6 95 00014  
04 12 00017  
01 A6 0C 90 00019  
00 00 01 D0 0001D 1$:  
50 00000000G 00 D0 00024  
60 0E 28 0002B  
56 DD 00033  
00 01 FB 00035  
01 50 E8 0003C  
04 0003F  
5A D4 00040 2$:  
7E D4 00042 3$:  
01 FB 00044  
03 50 E8 0004B  
00EA 31 0004E 4$:  
50 00000000G 00 9E 00051 5$:  
50 00000000G 00 D1 00058  
ED 13 0005F  
50 00000000G 00 D0 00061  
57 07 A0 9E 00068  
58 60 9A 0006C  
58 57 C0 0006F  
56 D4 00072  
58 57 D1 00074 6$:  
20 20 13 00077  
67 91 00079  
04 12 0007C
```

EDT\$LTADJ
V04-000

EDT\$LTADJ - TABS ADJUST line-mode command
EDT\$TSADJ_CMD - TABS ADJUST line-mode command

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DISK\$VMSMASTER:[EDT.SRC]LTADJ.BLI;1

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			56	D6	0007E	INCL	TC	0778
			13	11	00080	BRB	8\$	
	09		67	91	00082	7\$: CMPB	(CP), #9	0780
			12	12	00085	BNEQ	9\$	
			56	DD	00087	PUSHL	TC	0781
			09	DD	00089	PUSHL	#9	
	00000000G	00	02	FB	0008B	CALLS	#2, EDT\$FMT_CHWID	
		56	50	C0	00092	ADDL2	R0, TC	
			57	D6	00095	8\$: INCL	CP	0787
			DB	11	00097	BRB	6\$	0771
		50	00	D0	00099	9\$: MOVL	EDT\$A_EXE_CURCMD, R0	0794
	08	A0	00	C5	000A0	MULL3	EDT\$G_TAB_SIZ, 8(R0), R0	
		50	56	C0	000A9	ADDL2	TC, R0	
			02	18	000AC	BGEQ	10\$	
			50	D4	000AE	CLRL	R0	
		56	50	D0	000B0	10\$: MOVL	R0, TC	
		58	57	C3	000B3	SUBL3	CP, EP, R9	0799
		56	59	C1	000B7	ADDL3	R9, TC, R0	
	000000FF	8F	50	D1	000BB	CMPL	R0, #255	
			08	15	000C2	BLEQ	11\$	
	56	000000FF	59	C3	000C4	SUBL3	R9, #255, TC	
			6B	D4	000CC	11\$: CLRL	EDT\$G_LN_LEN	0801
	53		08	C7	000CE	DIVL3	#8, TC, R3	0806
			52	D4	000D2	CLRL	I	
			09	11	000D4	BRB	13\$	
			09	DD	000D6	12\$: PUSHL	#9	0807
		00000000G	01	FB	000D8	CALLS	#1, EDT\$SPUT_CH	
	F3		53	F3	000DF	13\$: AOBLEQ	R3, I, 12\$	
7E	00		01	7A	000E3	EMUL	#1, TC, #0, -(SP)	0809
53	53		08	7B	000E8	EDIV	#8, (SP)+, R3, R3	
			52	D4	000ED	CLRL	I	
			09	11	000EF	BRB	15\$	
			20	DD	000F1	14\$: PUSHL	#32	0810
		00000000G	01	FB	000F3	CALLS	#1, EDT\$SPUT_CH	
	F3		53	F3	000FA	15\$: AOBLEQ	R3, I, 14\$	
			6B	D0	000FE	MOVL	EDT\$G_LN_LEN, R0	0815
	00000000G0040		59	28	00101	MOVC3	R9, (CP), EDT\$T_LN_BUF[R0]	
			59	C0	0010A	ADDL2	R9, EDT\$G_LN_LEN	0816
			6B	D1	0010D	CMPL	EDT\$G_LN_LEN, #255	0817
	000000FF	8F	07	15	00114	BLEQ	16\$	
			00	FB	00116	CALLS	#0, EDT\$INTER_ERR	
	00000000G	00	01	7D	0011D	16\$: MOVQ	#1, -(SP)	0821
			02	FB	00120	CALLS	#2, EDT\$MRK_LNCHG	
			6B	DD	00127	PUSHL	EDT\$G_LN_LEN	0822
			00	9F	00129	PUSHAB	EDT\$T_LN_BUF	
		00000000G	02	FB	0012F	CALLS	#2, EDT\$SRPL_LN	
			5A	D6	00136	INCL	NLINES	0823
			FF07	31	00138	BRW	3\$	0756
			5A	D7	0013B	17\$: DECL	NLINES	0831
			09	15	0013D	BLEQ	18\$	0833
	00000000G	00	00	FB	0013F	CALLS	#0, EDT\$RD_PRVLN	0835
			F3	11	00146	BRB	17\$	0836
			04	00148	18\$: RET			0839

; Routine Size: 329 bytes, Routine Base: _EDT\$CODE + 0000

EDT\$LTADJ
V04-000

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: 271

EDT\$LTADJ - TABS ADJUST line-mode command
EDT\$TSADJ_CMD - TABS ADJUST line-mode command

M 15

16-Sep-1984 01:02:30
14-Sep-1984 12:23:45

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]LTADJ.BLI;1 Page 9 (3)

0840 1
0841 1 !<BLF/PAGE>

**f

```
! of module EDT$LTADJ
```

PSECT SUMMARY	
Name	Bytes Attributes
_EDT\$CODE	329 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	96	25	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=LISS$:LTADJ/OBJ=OBJ$:LTADJ MSRC$:LTADJ.BLI/UPDATE=(ENH$:LTADJ)

```

```
; Size: 329 code + 0 data bytes
; Run Time: 00:18.0
; Elapsed Time: 00:22.1
; Lines/CPU Min: 2813
; Lexemes/CPU-Min: 9476
; Memory Used: 135 pages
; Compilation Complete
```

B
C
D
E
F
G
H
I
J
K
L
M
N
B
C
D
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F
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H
I
J
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