

[illegible]

EXE

Mod

EDT

ED¹ED
EDED
EDED
EDED
ED

ED

ED

ED

ED

ED
EDSYN
LBA

110

LL	FFFFFFFF	LL	NN	NN	000000	
LL	FFFFFFFF	LL	NN	NN	000000	
LL	FF	LL	NN	NN	00	00
LL	FF	LL	NN	NN	00	00
LL	FF	LL	NNNN	NN	00	00
LL	FF	LL	NNNN	NN	00	00
LL	FFFFFFFF	LL	NN	NN	00	00
LL	FFFFFFFF	LL	NN	NN	00	00
LL	FF	LL	NN	NN	00	00
LL	FF	LL	NN	NN	00	00
LL	FF	LL	NN	NN	00	00
LL	FF	LL	NN	NN	00	00
LL	FF	LL	NN	NN	00	00
LL	FF	LL	NN	NN	00	00
LLLLLLLLLL	FF	LLLLLLLLLL	NN	NN	000000	000000
LLLLLLLLLL		LLLLLLLLLL	NN	NN	000000	000000

....
....
....
....

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	
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS


```
0001 0 %TITLE 'EDT$LFLNO - format the current line number'
0002 0 MODULE EDT$LFLNO ( ! Format the current line number
0003 0 IDENT = 'V04-000' ! File: LFLNO.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 formats a line number for printing.
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 02-FEB-1981. This module was created by
0045 1 extracting the routine EDT$$FILL_LNO from the module EXEC.BLI.
0046 1
0047 1 1-002. DJS 11-FEB-1981. The tab following the editor-supplied line
0048 1 number changed to an equivalent number of spaces so that there
0049 1 is no problem with terminals with settable tab stops.
0050 1
0051 1 1-003 - Regularize headers. JBS 19-Mar-1981
0052 1 1-004 - Remove division on line number calculations. SMB 13-Jan-1982
0053 1 1-005 - Change line number print format depending on size of line#. SMB 24-Jan-1982
0054 1 1-006 - Change line number division to routine call. SMB 11-Feb-1982
0055 1 1-007 - Change positioning in format buffer of text. STS 22-Jun-1982
0056 1 1-008 - Change the column position of typed text. SMB 14-Jul-1982
0057 1 1-009 - Put fsetcol in line. STS 11-Oct-1982
0058 1 1-010 - Modify to use new compare macro. STS 20-Oct-1982
```

EDT\$LFNO
V04-000

EDT\$LFNO - format the current line number

M 16
16-Sep-1984 00:50:18
14-Sep-1984 12:23:34

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DISK\$VMSMASTER:[EDT.SRC]LFNO.BLI;1 Page 2
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: 58
: 59
: 60
0058 1 ! 1-011 - Maintain cursor position. JBS 22-Oct-1982
0059 1 !--
0060 1

EDT\$LFNO
V04-000

EDT\$LFNO - format the current line number
Declarations

B 1
16-Sep-1984 00:50:18
14-Sep-1984 12:23:34

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```

: 62      0061 1 %SBTTL 'Declarations'
: 63      0062 1
: 64      0063 1 : TABLE OF CONTENTS:
: 65      0064 1 :
: 66      0065 1
: 67      0066 1 REQUIRE 'EDTSRC:TRAROUNAM';
: 68      0505 1
: 69      0506 1 FORWARD ROUTINE
: 70      0507 1     EDT$$FILL_LNO : NOVALUE;
: 71      0508 1
: 72      0509 1 :
: 73      0510 1 : INCLUDE FILES:
: 74      0511 1 :
: 75      0512 1
: 76      0513 1 REQUIRE 'EDTSRC:EDTREQ';
: 77      0648 1
: 78      0649 1 :
: 79      0650 1 : MACROS:
: 80      0651 1
: 81      0652 1 :     NONE
: 82      0653 1
: 83      0654 1 : EQUATED SYMBOLS:
: 84      0655 1
: 85      0656 1 :     NONE
: 86      0657 1
: 87      0658 1 : OWN STORAGE:
: 88      0659 1
: 89      0660 1 :     NONE
: 90      0661 1
: 91      0662 1 : EXTERNAL REFERENCES:
: 92      0663 1
: 93      0664 1 :     In the routine
```

! Format a line number for printing

EDT\$FLNO
V04-000

EDT\$FLNO - format the current line number
EDT\$FILL_LNO - format the current line number

C 1
16-Sep-1984 00:50:18
14-Sep-1984 12:23:34

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

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```

: 95      0665 1 %SBTTL 'EDT$FILL_LNO - format the current line number'
: 96      0666 1
: 97      0667 1 GLOBAL ROUTINE EDT$FILL_LNO                ! Format the current line number
: 98      0668 1   : NOVALUE =
: 99      0669 1
: 100     0670 1
: 101     0671 1 !++
: 102     0672 1 FUNCTIONAL DESCRIPTION:
: 103     0673 1   Format a line number for printing. The line number of the current
: 104     0674 1   line is converted to a decimal number with leading zeros and
: 105     0675 1   trailing zeroes after the decimal point suppressed. The decimal
: 106     0676 1   point is suppressed if the number is an integer.
: 107     0677 1
: 108     0678 1 FORMAL PARAMETERS:
: 109     0679 1
: 110     0680 1   NONE
: 111     0681 1
: 112     0682 1 IMPLICIT INPUTS:
: 113     0683 1
: 114     0684 1   EDT$A_FMT_CUR
: 115     0685 1   EDT$T_FMT_BUF
: 116     0686 1   EDT$SL_LN00
: 117     0687 1   thru
: 118     0688 1   EDT$SL_LN014
: 119     0689 1   EDT$A_WK_LN
: 120     0690 1
: 121     0691 1 IMPLICIT OUTPUTS:
: 122     0692 1
: 123     0693 1   EDT$A_FMT_CUR
: 124     0694 1   EDT$G_PRV_COL
: 125     0695 1   EDT$G_FMT_LNPOS
: 126     0696 1
: 127     0697 1 ROUTINE VALUE:
: 128     0698 1
: 129     0699 1   NONE
: 130     0700 1
: 131     0701 1 SIDE EFFECTS:
: 132     0702 1
: 133     0703 1   NONE
: 134     0704 1
: 135     0705 1 --
: 136     0706 1
: 137     0707 2 BEGIN
: 138     0708 2
: 139     0709 2 EXTERNAL ROUTINE
: 140     0710 2   EDT$LDIV;
: 141     0711 2
: 142     0712 2 EXTERNAL
: 143     0713 2   EDT$G_FMT_LNPOS,
: 144     0714 2   EDT$A_FMT_CUR,
: 145     0715 2   EDT$T_FMT_BUF,
: 146     0716 2   EDT$SL_LN00 : LNOVECTOR [14],
: 147     0717 2   EDT$A_WK_LN : REF LIN_BLOCK,
: 148     0718 2   EDT$G_PRV_COL;
: 149     0719 2
: 150     0720 2 LOCAL
: 151     0721 2   LNUM_LEN,

! Column number, for formatting
! Current position in the format buffer
! The format buffer
! Powers of 10
! The current line in the work file
! Cursor column number

! Line number length
```



```
152 0722 2      SIGNIF,          ! Flag indicating a sig. digit has been seen
153 0723 2      DIGIT,          ! The current digit
154 0724 2      LFORMAT,        ! Length of line number format
155 0725 2      DIVISOR : LN_BLOCK, ! A power of ten to divide by
156 0726 2      LINNO : LN_BLOCK,  ! The line number we are putting out
157 0727 2      T_LINE_NUM;      ! Pointer into the output buffer.
158 0728 2
159 0729 2      !+
160 0730 2      ! Initialize the pointer to the beginning of the format buffer.
161 0731 2      !-
162 0732 2      T_LINE_NUM = .EDT$A_FMT_CUR;
163 0733 2      !+
164 0734 2      ! Get the offset into the format buffer where we are positioned
165 0735 2      !-
166 0736 2      LFORMAT = .EDT$A_FMT_CUR - EDT$T_FMT_BUF;
167 0737 2      !+
168 0738 2      ! Fetch the line number into a local
169 0739 2      !-
170 0740 2      MOVELINE (EDT$A_WK_LN [LIN_NUM], LINNO);
171 0741 2      SIGNIF = 0;
172 0742 2      !+
173 0743 2      ! Initialize the line number field to spaces.  Format is nnnnn.nnnnnb if
174 0744 2      ! line number < 10*5 and nnnnnnnnnn.nnnnnb otherwise.
175 0745 2      !-
176 0746 2
177 0747 2      IF (CMPLNO (EDT$A_WK_LN [LIN_NUM], EDT$L_LNO0 [10]) GEQ 0)
178 0748 2      THEN
179 0749 2      BEGIN
180 0750 2      EDT$CPY_MEM (17, UPLIT (%STRING ('          ')), .T_LINE_NUM);
181 0751 2      LNUM_LEN = 17;
182 0752 2      END
183 0753 2      ELSE
184 0754 2      BEGIN
185 0755 2      EDT$CPY_MEM (12, UPLIT (%STRING ('          ')), .T_LINE_NUM);
186 0756 2      LNUM_LEN = 12;
187 0757 2      END;
188 0758 2
189 0759 2      LFORMAT = .LFORMAT + .LNUM_LEN;
190 0760 2      !+
191 0761 2      ! Loop once for each possible digit in the number starting with most
192 0762 2      ! significant
193 0763 2      !-
194 0764 2
195 0765 2      DECR I FROM 14 TO 0 DO
196 0766 2      BEGIN
197 0767 2      EDT$LDIV (LINNO, DIGIT, .I);
198 0768 2      !+
199 0769 2      ! Write the digit out if the current digit is non-zero or
200 0770 2      ! we have seen a previous non zero digit or we are down
201 0771 2      ! to the units digit.
202 0772 2      !-
203 0773 2
204 0774 2      IF ((.DIGIT NEQ 0) OR (.SIGNIF NEQ 0) OR (.I EQL 5))
205 0775 2      THEN
206 0776 2      BEGIN
207 0777 2      CH$WCHAR (.DIGIT + %C'0', .T_LINE_NUM);
208 0778 2      SIGNIF = .SIGNIF + 1;
```


EDT\$FLNO
V04-000

EDT\$FLNO - format the current line number
EDT\$FILL_LNO - format the current line number

E 1
16-Sep-1984 00:50:18
14-Sep-1984 12:23:34

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

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```

209 0779 3      END;
210 0780
211 0781
212 0782 1+      Bump the character pointer.
213 0783 1-
214 0784
215 0785 4      IF ((.LNUM_LEN EQL 17) OR ((.LNUM_LEN EQL 12) AND (.I LEQ 9)))
216 0786 4      THEN
217 0787 4          T_LINE_NUM = CH$PLUS (.T_LINE_NUM, 1);
218 0788
219 0789 1+
220 0790 1-      If we are into the fractional part and the rest of
221 0791 1-      the number is zero, then get out of the loop.
222 0792 1-
223 0793
224 0794 4      IF ((.I LEQ 5) AND (.LINNO EQL 0)) THEN EXITLOOP;
225 0795
226 0796 1+
227 0797 1-      If we are down to the units position, then write out
228 0798 1-      the decimal point.
229 0799 1-
230 0800
231 0801 4      IF (.I EQL 5) THEN CH$WCHAR_A ('.', T_LINE_NUM);
232 0802
233 0803 4      END;
234 0804
235 0805 1+
236 0806 1-      Set the format buffer pointer and column number.
237 0807 1-
238 0808 2      EDT$A_FMT_CUR = CH$PTR (EDT$T_FMT_BUF, .LFORMAT);
239 0809 2      EDT$G_PRV_COL = .EDT$G_PRV_COL + .LFORMAT - .EDT$G_FMT_LNPOS;
240 0810 2      EDT$G_FMT_LNPOS = .LFORMAT;
241 0811 1      END;

```

! of routine EDT\$FILL_LNO

```

;
.TITLE EDT$FLNO EDT$FLNO - format the current line n
.IDENT \V04-000\
.PSECT _EDT$CODE,NOWRT, SHR, PIC,2
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00000 P.AAA: .ASCII \ \<0><0>
00 00 20 20 20 20 20 20 20 20 20 20 20 20 0000F P.AAB: .ASCII \ \<0><0><0>
00 00 20 20 20 20 20 20 20 20 20 20 20 20 00014
00 00023

.EXTRN EDT$LDIV, EDT$G_FMT_LNPOS
.EXTRN EDT$A_FMT_CUR, EDT$T_FMT_BUF
.EXTRN EDT$G_LNPOS, EDT$A_WK_LN
.EXTRN EDT$G_PRV_COL

OFFC 00000
5B 00000000G 00 9E 00002
5A 00000000G 00 9E 00009
5E 14 C2 00010
51 00000000G 00 D0 00013

.ENTRY EDT$FILL_LNO, Save R2,R3,R4,R5,R6,R7,R8,- : 0667
R9,R10,R11
MOVAB EDT$G_PRV_COL, R11
MOVAB EDT$T_FMT_BUF, R10
SUBL2 #20, SP
MOVL EDT$A_FMT_CUR, R1 : 0732

```


EDT\$FLNO
V04-000

EDT\$FLNO - format the current line number
EDT\$FILL_LNO - format the current line number

F 1
16-Sep-1984 00:50:18
14-Sep-1984 12:23:34

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

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57	04	AE	01	58	51	D0	0001A	MOVL	R1, T LINE_NUM	0736
				50	6A	9E	0001D	MOVAB	EDT\$T_FMT_BUF, R0	
				51	50	C3	00020	SUBL3	R0, R1, LFORMAT	
				56	00	D0	00024	MOVL	EDT\$A_WK_LN, R6	0740
				A6	06	28	0002B	MOV3	#6, 1(R6), LINNO	
					59	D4	00031	CLRL	SIGNIF	0741
				50	00	3C	00033	MOVZWL	HIGH 2, R0	0747
				50	A6	B1	0003A	CMPW	5(R6), R0	
					0F	1F	0003E	BLSSU	1\$	
					18	12	00040	BNEQ	3\$	
				50	00	D0	00042	MOVL	LOW 2, R0	
				50	A6	D1	00049	CMPL	1(R6), R0	
					05	1E	0004D	BGEQU	2\$	
				50	01	CE	0004F	MNEGL	#1, R0	
					09	11	00052	BRB	4\$	
					04	12	00054	BNEQ	3\$	
					50	D4	00056	CLRL	R0	
					03	11	00058	BRB	4\$	
				50	01	D0	0005A	MOVL	#1, R0	
					0B	19	0005D	BLSS	5\$	
68	FF78	CF			11	28	0005F	MOV3	#17, P.AAA, (T_LINE_NUM)	0750
		53			11	D0	00065	MOVL	#17, LNUM_LEN	0751
					08	11	00068	BRB	6\$	0747
68	82	AF			0C	28	0006A	MOV3	#12, P.AAB, (T_LINE_NUM)	0755
		53			0C	D0	0006F	MOVL	#12, LNUM_LEN	0756
		57			53	C0	00072	ADDL2	LNUM_LEN, LFORMAT	0759
		52			0E	D0	00075	MOVL	#14, I	0765
					52	DD	00078	PUSHL	I	0767
			04		AE	9F	0007A	PUSHAB	DIGIT	
			OC		AE	9F	0007D	PUSHAB	LINNO	
	00000000G	00			03	FB	00080	CALLS	#3, EDT\$LDIV	
					6E	D5	00087	TSTL	DIGIT	0774
					09	12	00089	BNEQ	8\$	
					59	D5	0008B	TSTL	SIGNIF	
					05	12	0008D	BNEQ	8\$	
				05	52	D1	0008F	CMPL	I, #5	
					06	12	00092	BNEQ	9\$	
68		6E			30	81	00094	ADDB3	#48, DIGIT, (T_LINE_NUM)	0777
					59	D6	00098	INCL	SIGNIF	0778
		11			53	D1	0009A	CMPL	LNUM_LEN, #17	0785
					0A	13	0009D	BEQL	10\$	
		OC			53	D1	0009F	CMPL	LNUM_LEN, #12	
					07	12	000A2	BNEQ	11\$	
		09			52	D1	000A4	CMPL	I, #9	
					02	14	000A7	BGTR	11\$	
					58	D6	000A9	INCL	T_LINE_NUM	0787
		05			52	D1	000AB	CMPL	I, #5	0794
					05	14	000AE	BGTR	12\$	
			04		AE	D5	000B0	TSTL	LINNO	
					0B	13	000B3	BEQL	14\$	
					52	D1	000B5	CMPL	I, #5	0801
		05			03	12	000B8	BNEQ	13\$	
		88			2E	90	000BA	MOVB	#46, (T_LINE_NUM)+	
		88			52	F4	000BD	SOBGEQ	I, 7\$	0765
00000000G	00				5A	C1	000C0	ADDL3	R10, LFORMAT, EDT\$A_FMT_CUR	0808
		50			6B	D0	000C8	MOVL	EDT\$G_PRV_COL, R0	0809
		50			57	C0	000CB	ADDL2	LFORMAT, R0	

EDT\$LFNO
V04-000

EDT\$LFNO - format the current line number
EDT\$\$FILL_LNO - format the current line number

G 1
16-Sep-1984 00:50:18
14-Sep-1984 12:23:34

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

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68 00000000G 50 00000000G 00 C3 000CE
00 57 D0 000D6
04 000DD

SUBL3 EDT\$\$G_FMT_LNPOS, R0, EDT\$\$G_PRV_COL
MOVL LFORMAT, EDT\$\$G_FMT_LNPOS
RET

: 0810
: 0811

; Routine Size: 222 bytes, Routine Base: _EDT\$CODE + 0024

: 242 0812 1
: 243 0813 1 !<BLF/PAGE>

EDT\$LFLNO
V04-000

EDT\$FILL_LNO - format the current line number

H 1
16-Sep-1984 00:50:18

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EDT\$FILL_LNO - format the current line number 14-Sep-1984 12:23:34

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

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: 245

: 246

: 247

0814 1 END

0815 1

0816 0 ELUDOM

! of module EDT\$LFLNO

PSECT SUMMARY

Name

Bytes

Attributes

_EDT\$CODE

258 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File

Symbols

Pages

Processing

Total

Loaded

Percent

Mapped

Time

_\$255\$DUA28:[EDT.SRC]EDT.L32;1

377

16

4

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\$:LFLNO/OBJ=OBJ\$:LFLNO MSRC\$:LFLNO.BLI/UPDATE=(ENH\$:LFLNO)

Size: 222 code + 36 data bytes

Run Time: 00:16.2

Elapsed Time: 00:21.9

Lines/CPU Min: 3020

Lexemes/CPU-Min: 10460

Memory Used: 115 pages

Compilation Complete

0135 AH-BT13A-SE
VAX/VMS V4.0

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