

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	NNNN	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
LLLLLLLLLL	FF	LLLLLLLLLL	NN	NN	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	SS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS

```

1 0001 0 %TITLE 'EDT$LFLNO - format the current line number'
2 0002 0 MODULE EDT$LFLNO ( ! Format the current line number
3 0003 0 IDENT = 'V04-000' ! File: LFLNO.BLI Edit: JBS1011
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 This module formats a line number for printing.
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: February 3, 1978
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. DJS 02-FEB-1981. This module was created by
45 0045 1 extracting the routine EDT$$FILL_LNO from the module EXEC.BLI.
46 0046 1
47 0047 1 1-002. DJS 11-FEB-1981. The tab following the editor-supplied line
48 0048 1 number changed to an equivalent number of spaces so that there
49 0049 1 is no problem with terminals with settable tab stops.
50 0050 1 1-003 - Regularize headers. JBS 19-Mar-1981
51 0051 1 1-004 - Remove division on line number calculations. SMB 13-Jan-1982
52 0052 1 1-005 - Change line number print format depending on size of line#. SMB 24-Jan-1982
53 0053 1 1-006 - Change line number division to routine call. SMB 11-Feb-1982
54 0054 1 1-007 - Change positioning in format buffer of text. STS 22-Jun-1982
55 0055 1 1-008 - Change the column position of typed text. SMB 14-Jul-1982
56 0056 1 1-009 - Put fsetcol in line. STS 11-Oct-1982
57 0057 1 1-010 - Modify to use new compare macro. STS 20-Oct-1982

```

EDTSLFLNO
V04-000

EDTSLFLNO - format the current line number

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

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

: 58
: 59
: 60

0058 1 : 1-0.1 - 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
1 Sep-1984 12:23:34

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]LFLNO.BLI;1 Page 3
(2)

```

: 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;          ! Format a line number for printing
: 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
```

```

: 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 ! FUNCTIONAL DESCRIPTION:
102 0672 1
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$$L_LNO0
117 0687 1 ! thru
118 0688 1 ! EDT$$L_LNO14
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, ! Column number, for formatting
144 0714 2 ! EDT$$A_FMT_CUR, ! Current position in the format buffer
145 0715 2 ! EDT$$T_FMT_BUF, ! The format buffer
146 0716 2 ! EDT$$L_LNO0 : LNOVECTOR [14], ! Powers of 10
147 0717 2 ! EDT$$A_WK_LN : REF LIN_BLOCK, ! The current line in the work file
148 0718 2 ! EDT$$G_PRV_COL; ! Cursor column number
149 0719 2
150 0720 2 ! LOCAL
151 0721 2 ! LNUM_LEN, ! 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.nnnnb if
174 0744 2      | line number < 10**5 and nnnnnnnnnn.nnnnb otherwise.
175 0745 2      -
176 0746 2
177 0747 3      IF (CMLNO (EDT$A_WK_LN [LIN_NUM], EDT$L_LNO0 [10]) GEQ 0)
178 0748 3      THEN
179 0749 3      BEGIN
180 0750 3      EDT$CPY_MEM (17, UPLIT (%STRING ('          ')), .T_LINE_NUM);
181 0751 3      LNUM_LEN = 17;
182 0752 3      END
183 0753 3      ELSE
184 0754 3      BEGIN
185 0755 3      EDT$CPY_MEM (12, UPLIT (%STRING ('          ')), .T_LINE_NUM);
186 0756 3      LNUM_LEN = 12;
187 0757 3      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$LDIV (LINNO, DIGIT, .I);
198 0768 2      +
199 0769 2      | Write the digit out if the current digit is non-zero or
200 0770 2      | we have seen a previous non zero digit or we are down
201 0771 2      | to the units digit.
202 0772 2      -
203 0773 2
204 0774 4      IF ((.DIGIT NEQ 0) OR (.SIGNIF NEQ 0) OR (.I EQL 5))
205 0775 3      THEN
206 0776 4      BEGIN
207 0777 4      CH$WCHAR (.DIGIT + %C'0', .T_LINE_NUM);
208 0778 4      SIGNIF = .SIGNIF + 1;

```

```

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

```

! of routine EDT\$\$FILL_LNO

														.TITLE	EDT\$FLNO EDT\$FLNO - format the current line number							
														.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	20	0000F					:		
00	00	20	20	20	20	20	20	20	20	20	20	20	20	20	00014	P.AAB:	.ASCII	\	\<0><0><0>	:		
														00	00023			:				
														.EXTRN	EDT\$\$LDIV, EDT\$\$G_FMT_LNPOS							
														.EXTRN	EDT\$\$A_FMT_CUR, EDT\$\$T_FMT_BUF							
														.EXTRN	EDT\$\$L_LN00, EDT\$\$A_WK_LN							
														.EXTRN	EDT\$\$G_PRV_COL							
														.ENTRY	EDT\$\$FILL_LNO, Save R2,R3,R4,R5,R6,R7,R8,-		: 0667					
															R9,R10,R11		:					
														5B	00000000G	00	9E	00002	MOVAB	EDT\$\$G_PRV_COL, R11		:
														5A	00000000G	00	9E	00009	MOVAB	EDT\$\$T_FMT_BUF, R10		:
														5E		14	C2	00010	SUBL2	#20, SP		:
														51	00000000G	00	D0	00013	MOVL	EDT\$\$A_FMT_CUR, R1		: 0732

		58	51	D0	0001A	MOVL	R1, T LINE_NUM		
		50	6A	9E	0001D	MOVAB	EDT\$ST_FMT_BUF, R0	0736	
57		51	50	C3	00020	SUBL3	R0, R1, LFORMAT		
		56	00	D0	00024	MOVL	EDT\$A_WK_LN, R6	0740	
04	AE	01	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	05	A6	B1	0003A	CMPL	5(R6), R0	
				0F	1F	0003E	BLSSU	1\$	
				18	12	00040	BNEQ	3\$	
		50	00	D0	00042	MOVL	LOW_2, R0		
		50	01	A6	D1	00049	CMPL	1(R6), R0	
				05	1E	0004D	BGEQU	2\$	
		50	01	CE	0004F	1\$:	MNEGL	#1, R0	
				09	11	00052	BRB	4\$	
				04	12	00054	2\$:	BNEQ	3\$
				50	D4	00056	CLRL	R0	
				03	11	00058	BRB	4\$	
		50	01	D0	0005A	3\$:	MOVL	#1, R0	
				0B	19	0005D	4\$:	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	5\$:	MOV3	#12, P.AAB, (T_LINE_NUM)	0755
		53	0C	D0	0006F	MOVL	#12, LNUM_LEN	0756	
		57	53	C0	00072	6\$:	ADDL2	LNUM_LEN, LFORMAT	0759
		52	0E	D0	00075	MOVL	#14, I	0765	
				52	DD	00078	7\$:	PUSHL	I
			04	AE	9F	0007A	PUSHAB	DIGIT	
			0C	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	8\$:	ADDB3	#48, DIGIT, (T_LINE_NUM)	0777
			59	D6	00098	INCL	SIGNIF	0778	
		11	53	D1	0009A	9\$:	CMPL	LNUM_LEN, #17	0785
			0A	13	0009D	BEQL	10\$		
		0C	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	10\$:	INCL	T_LINE_NUM	0787
		05	52	D1	000AB	11\$:	CMPL	I, #5	0794
			05	14	000AE	BGTR	12\$		
			04	AE	D5	000B0	TSTL	LINNO	
			0B	13	000B3	BEQL	14\$		
		05	52	D1	000B5	12\$:	CMPL	I, #5	0801
			03	12	000B8	BNEQ	13\$		
		88	2E	90	000BA	MOVB	#46, (T_LINE_NUM)+		
		88	52	F4	000BD	13\$:	SOBGEQ	I, 7\$	0765
00000000G	00	57	5A	C1	000C0	14\$:	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

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

Page 8
(3)

621 00000000G 50 00000000G 00 C3 000CE
00000000G 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>

ED
VO

```

EDT$LFLNO          EDT$LFLNO - format the current line number      H 1
V04-000            EDT$$FILL_LNO - format the current line number 16-Sep-1984 00:50:18 VAX-11 Bliss-32 V4.0-742
                                                           14-Sep-1984 12:23:34 DISK$VMSMASTER:[EDT.SRC]LFLNO.BLI;1 Page 9
: 245              0814 1 END                                     ! of module EDT$LFLNO
: 246              0815 1
: 247              0816 0 ELUDOM

```

PSECT SUMMARY

```

: Name              Bytes              Attributes
: _EDT$CODE         258 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	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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KEYPAD	KEYPADDEF LIS	LDIVISION LIS
KEYDEFKEY LIS	KEYFMTSTR LIS	LDEFK LIS
KEYCHR LIS	KEYIMMNP LIS	LDELETE LIS
KEYCOM LIS	KEYPUTCHR LIS	LDFM LIS
KEYPAD LIS	LDEFM LIS	LDFM LIS
KEYTRNCHR LIS	KEYTRNCHR LIS	KEYTRNCHR LIS
KEYTRNCHR LIS	KEYTRNCHR LIS	KEYTRNCHR LIS

