



```

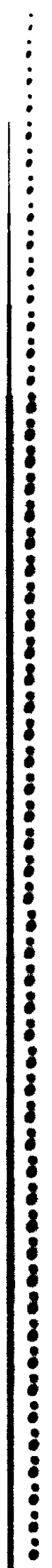
FFFFFFFFF DDDDDDD EEEEEEEEE CCCCCCC
FFFFFFFFF DDDDDDD EEEEEEEEE CCCCCCC
FF         DD      DD  EE         CC
FF         DD      DD  EE         CC
FF         DD      DD  EE         CC
FF         DD      DD  EE         CC
FFFFFFF    DD      DD  EEEEEEEE CC
FFFFFFF    DD      DD  EEEEEEEE CC
FF         DD      DD  EE         CC
FF         DD      DD  EE         CC
FF         DD      DD  EE         CC
FF         DD      DD  EE         CC
FF         DD      DD  EE         CC
FF         DD      DD  EE         CC
FF         DDDDDDD EEEEEEEEE CCCCCCC
FF         DDDDDDD EEEEEEEEE CCCCCCC

```

```

LL         IIIII SSSSSSS
LL         IIIII SSSSSSS
LL         II     SS
LL         II     SS
LL         II     SS
LL         II     SS
LL         II     SSSSS
LL         II     SSSSS
LL         II     SS
LL         II     SS
LL         II     SS
LL         II     SS
LLLLLLLLL IIIII SSSSSSS
LLLLLLLLL IIIII SSSSSSS

```



```

1 0001 0 %TITLE 'EDT$FDEC - format a decimal number'
2 0002 0 MODULE EDT$FDEC ( ! Format a decimal number
3 0003 0 IDENT = 'V04-000' ! File: FDEC.BLI Edit: JBS1005
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 Format a decimal number.
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: March 18, 1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. DJS 19-FEB-1981. This module was created by
45 0045 1 extracting routine EDT$FMT DCML from module FORMAT.
46 0046 1 1-002 - Regularize headers. JBS 05-Mar-1981
47 0047 1 1-003 - Rewrite to use recursion. This saves 17 words over version 1-002
48 0048 1 on the PDP-11. JBS 05-Mar-1981
49 0049 1 1-004 - Correct infinite recursion. JBS 02-Apr-1981
50 0050 1 1-005 - Improve the appearance of the listing. JBS 14-Jun-1983
51 0051 1 --
52 0052 1

```

```
54 0053 1 %SBTTL 'Declarations'  
55 0054 1 :  
56 0055 1 : TABLE OF CONTENTS:  
57 0056 1 :  
58 0057 1 :  
59 0058 1 REQUIRE 'EDT$SRC:TRAROUNAM';  
60 0497 1 :  
61 0498 1 FORWARD ROUTINE  
62 0499 1 EDT$FMT_DCML : NOVALUE;  
63 0500 1 :  
64 0501 1 :  
65 0502 1 : INCLUDE FILES:  
66 0503 1 :  
67 0504 1 :  
68 0505 1 REQUIRE 'EDT$SRC:EDTREQ';  
69 0640 1 :  
70 0641 1 :  
71 0642 1 : MACROS:  
72 0643 1 :  
73 0644 1 : NONE  
74 0645 1 :  
75 0646 1 : EQUATED SYMBOLS:  
76 0647 1 :  
77 0648 1 : NONE  
78 0649 1 :  
79 0650 1 : OWN STORAGE:  
80 0651 1 :  
81 0652 1 : NONE  
82 0653 1 :  
83 0654 1 : EXTERNAL REFERENCES:  
84 0655 1 :  
85 0656 1 : In the routine
```

```

87 0657 1 %SBTTL 'EDT$$FMT_DCML - format a decimal number'
88 0658 1
89 0659 1 GLOBAL ROUTINE EDT$$FMT_DCML (           ! Format a decimal number
90 0660 1     N                                   ! The number to format
91 0661 1     ) : NOVALUE =
92 0662 1
93 0663 1 :++
94 0664 1 : FUNCTIONAL DESCRIPTION:
95 0665 1
96 0666 1     Convert a decimal number to displayable ASCII in the format buffer.
97 0667 1     The number is written with a leading minus and leading zeros suppressed.
98 0668 1
99 0669 1 : FORMAL PARAMETERS:
100 0670 1
101 0671 1     N                               The number to write out.
102 0672 1
103 0673 1 : IMPLICIT INPUTS:
104 0674 1
105 0675 1     NONE
106 0676 1
107 0677 1 : IMPLICIT OUTPUTS:
108 0678 1
109 0679 1     NONE
110 0680 1
111 0681 1 : ROUTINE VALUE:
112 0682 1
113 0683 1     NONE
114 0684 1
115 0685 1 : SIDE EFFECTS:
116 0686 1
117 0687 1     Calls itself for large numbers.
118 0688 1
119 0689 1 :--
120 0690 1
121 0691 2     BEGIN
122 0692 2
123 0693 2     EXTERNAL ROUTINE
124 0694 2     EDT$$FMT_CH : NOVALUE;
125 0695 2
126 0696 2     LOCAL
127 0697 2     POSITIVE_N;
128 0698 2
129 0699 2 :+
130 0700 2 : See if we should put out a minus.
131 0701 2 :-
132 0702 2
133 0703 2     IF (.N LSS 0)
134 0704 2     THEN
135 0705 2         BEGIN
136 0706 2             EDT$$FMT_CH (%C'-' );
137 0707 2             POSITIVE_N = -.N;
138 0708 2             END
139 0709 2     ELSE
140 0710 2         POSITIVE_N = .N;
141 0711 2
142 0712 2 :+
143 0713 2 : If the number is greater than or equal to 10, print

```

```

: 144 0714 2 ! the leading digits first.
: 145 0715 2 !-
: 146 0716 2
: 147 0717 2 IF (.POSITIVE_N GEQ 10) THEN EDT$$FMT_DCML (.POSITIVE_N/10);
: 148 0718 2
: 149 0719 2 !+
: 150 0720 2 ! Now print the low-order (last) digit.
: 151 0721 2 !-
: 152 0722 2 EDT$$FMT_CH ((.POSITIVE_N MOD 10) + '0');
: 153 0723 1 END;

```

! of routine EDT\$\$FMT\_DCML

.TITLE EDT\$FDEC EDT\$FDEC - format a decimal number  
.IDENT \V04-000\

.EXTRN EDT\$\$FMT\_CH

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

```

.ENTRY EDT$$FMT_DCML, Save R2,R3,R4 : 0659
MOVAB EDT$$FMT_CH, R4 : 0703
MOVL N, R3 : 0706
BGEQ 1$ : 0707
PUSHL #45 : 0710
CALLS #1, EDT$$FMT_CH : 0717
MNEGL R3, POSITIVE_N
BRB 2$
MOVL R3, POSITIVE_N
CML POSITIVE_N, #10
BLSS 3$
DIVL3 #10, POSITIVE_N, -(SP)
CALLS #1, EDT$$FMT_DCML : 0722
EMUL #1, POSITIVE_N, #0, -(SP)
EDIV #10, (SP)+, R0, R0
PUSHAB 48(R0)
CALLS #1, EDT$$FMT_CH : 0723
RET

```

```

001C 00000
54 00000000G 00 9E 00002
53 04 AC D0 00009
0A 18 0000D
2D DD 0000F
64 01 FB 00011
52 53 CE 00014
03 11 00017
52 53 D0 00019 1$:
0A 52 D1 0001C 2$:
08 19 0001F
7E 0A C7 00021
D7 AF 01 FB 00025
52 01 7A 00029 3$:
8E 0A 7B 0002E
30 A0 9F 00033
64 01 FB 00036
04 00039

```

: Routine Size: 58 bytes, Routine Base: \_EDT\$CODE + 0000

```

: 154 0724 1
: 155 0725 1 !<BLF/PAGE>

```

EDTSFDEC  
V04-000

EDTSFDEC - format a decimal number  
EDTSSFMT\_DCML - format a decimal number

H 11  
16-Sep-1984 00:20:37  
14-Sep-1984 12:23:05

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

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ED  
VO

: 157 0726 1 END  
: 158 0727 1  
: 159 0728 0 ELUDOM

. of module EDT\$FDEC

PSECT SUMMARY

| Name       | Bytes | Attributes  |
|------------|-------|---|
| _EDT\$CODE | 58    | NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2) |

Library Statistics

| File                                | Symbols |                | Pages Mapped | Processing Time |
|-------------------------------------|---------|----------------|--------------|-----------------|
|                                     | Total   | Loaded Percent |              |                 |
| _\$255\$DUA28:[EDT.SRC]EDT.L32;1    | 377     | 0 0            | 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\$:FDEC/OBJ=OBJ\$:FDEC MSRC\$:FDEC.BLI/UPDATE=(ENHS:FDEC)

: Size: 58 code + 0 data bytes  
: Run Time: 00:09.6  
: Elapsed Time: 00:12.6  
: Lines/CPU Min: 4564  
: Lexemes/CPU-Min: 12119  
: Memory Used: 58 pages  
: Compilation Complete

