



```

LL      SSSSSSSS UU      UU  BBBB88888 SSSSSSSS
LL      SSSSSSSS UU      UU  BBBB88888 SSSSSSSS
LL      SS      UU      UU  BB      BB  SS
LL      SS      UU      UU  BB      BB  SS
LL      SS      UU      UU  BB      BB  SS
LL      SS      UU      UU  BB      BB  SS
LL      SSSSSS  UU      UU  BBBB88888 SSSSSS
LL      SSSSSS  UU      UU  BBBB88888 SSSSSS
LL              SS  UU      UU  BB      BB  SS
LL              SS  UU      UU  BB      BB  SS
LL              SS  UU      UU  BB      BB  SS
LL              SS  UU      UU  BB      BB  SS
LLLLLLLLLLL SSSSSSSS UUUUUUUUU BBBB88888 SSSSSSSS .....
LLLLLLLLLLL SSSSSSSS UUUUUUUUU BBBB88888 SSSSSSSS .....

```

```

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
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS

```

```

1 0001 0 %TITLE 'EDT$LSUBS - SUBSTITUTE line-mode command'
2 0002 0 MODULE EDT$LSUBS ( ! SUBSTITUTE line-mode command
3 0003 0 IDENT = 'V04-000' ! File: LSUBS.BLI Edit: STS1011
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
10 0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
11 0011 1 * ALL RIGHTS RESERVED.
12 0012 1 *
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
14 0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
15 0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
16 0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
17 0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
18 0018 1 * TRANSFERRED.
19 0019 1 *
20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
22 0022 1 * CORPORATION.
23 0023 1 *
24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
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 executes the line mode SUBSTITUTE command.
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 30-JAN-81. This module was created by
45 0045 1 extracting the routine EDT$SLN SUBCMD from the module EXEC.BLI.
46 0046 1 1-002 - Regularize headers. JBS 20-Mar-1981
47 0047 1 1-003 - Change substitute to EDT$SUB_NXT. JBS 27-Mar-1981
48 0048 1 1-004 - Change paramter to FMT-STRCNT. SMB 5-Feb-1982
49 0049 1 1-005 - Give a message if there is an error setting search strings. JBS 04-May-1982
50 0050 1 1-006 - Stop processing on bad select range. SMB 01-Jul-1982
51 0051 1 1-007 - Use EDT$FMT_CRLF instead of EDT$GUT_FMTBUF. JBS 05-Jul-1982
52 0052 1 1-008 - Mark the screen as changed if we change anything. JBS 07-Jul-1982
53 0053 1 1-009 - Put edt$stst_eob in line. STS 22-Sep-1982
54 0054 1 1-010 - Remove EDT$SG_SCR_CHGD, new screen logic doesn't need it. JBS 09-Oct-1982
55 0055 1 1-011 - Put edt$rng_frstln in line. STS 11-Oct-1982
56 0056 1 --
57 0057 1

```

```
59 0058 1 %SBTTL 'Declarations'  
60 0059 1 :  
61 0060 1 : TABLE OF CONTENTS:  
62 0061 1 :  
63 0062 1 :  
64 0063 1 REQUIRE 'EDTSRC:TRAROUNAM';  
65 0502 1 :  
66 0503 1 FORWARD ROUTINE  
67 0504 1 EDT$LN_SUBCMD : NOVALUE; ' Process the SUBSTITUTE command  
68 0505 1 :  
69 0506 1 :  
70 0507 1 : INCLUDE FILES:  
71 0508 1 :  
72 0509 1 :  
73 0510 1 REQUIRE 'EDTSRC:EDTREQ';  
74 0645 1 :  
75 0646 1 :  
76 0647 1 : MACROS:  
77 0648 1 :  
78 0649 1 : NONE  
79 0650 1 :  
80 0651 1 : EQUATED SYMBOLS:  
81 0652 1 :  
82 0653 1 : NONE  
83 0654 1 :  
84 0655 1 : OWN STORAGE:  
85 0656 1 :  
86 0657 1 : NONE  
87 0658 1 :  
88 0659 1 : EXTERNAL REFERENCES:  
89 0660 1 :  
90 0661 1 : In the routine
```

```

92 0662 1 %SBTTL 'EDT$$LN_SUBCMD - SUBSTITUTE line-mode command'
93 0663 1
94 0664 1 GLOBAL ROUTINE EDT$$LN_SUBCMD ! SUBSTITUTE line-mode command
95 0665 1 : NOVALUE =
96 0666 1
97 0667 1 :--
98 0668 1 :--
99 0669 1 :--
100 0670 1 :--
101 0671 1 :--
102 0672 1 :--
103 0673 1 :--
104 0674 1 :--
105 0675 1 :--
106 0676 1 FORMAL PARAMETERS:
107 0677 1
108 0678 1 NONE
109 0679 1
110 0680 1 IMPLICIT INPUTS:
111 0681 1
112 0682 1 EDT$$G_INP_SRC
113 0683 1 EDT$$A_CUR_BUF
114 0684 1 EDT$$Z_RNG_SAVPOS
115 0685 1 EDT$$A_EXE_CURCMD
116 0686 1 EDT$$G_EXE_QRYQUIT
117 0687 1 EDT$$G_EXE_SUBCNT
118 0688 1 EDT$$A_WK_CN
119 0689 1
120 0690 1 IMPLICIT OUTPUTS:
121 0691 1
122 0692 1 NONE
123 0693 1
124 0694 1 ROUTINE VALUE:
125 0695 1
126 0696 1 NONE
127 0697 1
128 0698 1 SIDE EFFECTS:
129 0699 1
130 0700 1 NONE
131 0701 1
132 0702 1 :--
133 0703 1
134 0704 2 BEGIN
135 0705 2
136 0706 2 EXTERNAL ROUTINE
137 0707 2 EDT$$FMT_STRCNT : NOVALUE,
138 0708 2 EDT$$FMT_CRLF, ! Terminate an output line
139 0709 2 EDT$$SET_STR,
140 0710 2 EDT$$FMT_MSG : NOVALUE,
141 0711 2 EDT$$NXT_LNRNG,
142 0712 2 EDT$$RNG_REPOS,
143 0713 2 EDT$$RD_CURLN,
144 0714 2 EDT$$SUB_NXT : NOVALUE,
145 0715 2 EDT$$STOP_WKINGMSG : NOVALUE, ! Turn off the 'working' message
146 0716 2 EDT$$CHK_CC; ! Check for a control C
147 0717 2
148 0718 2 EXTERNAL
```

```
149 0719 2      EDT$$L_LNO_ZERO : LN_BLOCK,
150 0720 2      EDT$$G_INP_SRC,
151 0721 2      EDT$$A_CUR_BUF : REF TBCB_BLOCK,
152 0722 2      EDT$$Z_RNG_SAVPOS : POS_BLOCK,
153 0723 2      EDT$$A_WK_LN : REF LN_BLOCK,
154 0724 2      EDT$$G_RNG_FRSTLN,
155 0725 2      EDT$$Z_RNG_ORIGPOS : POS_BLOCK,
156 0726 2      EDT$$Z_EOB_LN,
157 0727 2      EDT$$A_EXE_CURCMD : REF NODE_BLOCK,      ! Pointer to the current command.
158 0728 2      EDT$$G_EXE_QRYQUIT,                    ! Quit flag for /QUERY operations.
159 0729 2      EDT$$G_EXE_SUBCNT,                      ! No. of substitutions done.
160 0730 2      EDT$$G_CC_DONE;                          ! Set if control C actually aborted something
161 0731 2
162 0732 2      MESSAGES ((INVSTR));
163 0733 2
164 0734 2      LOCAL
165 0735 2          STRINGS_OK,                          ! Flag indicating that there is a problem setting the strings
166 0736 2          TEMP_COUNT : LN_BLOCK,              ! 6 byte count field
167 0737 2          SINGLE,                             ! Flag indicating single subs only
168 0738 2          FIRST,                             ! Flag indicating whether this is the first one.
169 0739 2          SEEN_CC;                            ! Flag indicating we have seen a control C
170 0740 2
171 0741 2      !+
172 0742 2      ! Get the range node.
173 0743 2      !-
174 0744 2
175 0745 2      BIND
176 0746 2          RANGE = .EDT$$A_EXE_CURCMD [RANGE1] : NODE_BLOCK;
177 0747 2
178 0748 2      !+
179 0749 2      ! Position to the first line.
180 0750 2      !-
181 0751 2
182 0752 2      EDT$$G_RNG_FRSTLN = 1;
183 0753 2      EDT$$CPY_MEM( POS_SIZE, .EDT$$A_CUR_BUF, EDT$$Z_RNG_ORIGPOS);
184 0754 2      IF ( NOT EDT$$RNG_REPOS (.EDT$$A_EXE_CURCMD [RANGE1])) THEN RETURN;
185 0755 2
186 0756 2      !+
187 0757 2      ! Set the single substitution flag if the range was null.
188 0758 2      !-
189 0759 2      SINGLE = .RANGE [RAN_TYPE] EQL RAN_NULL;
190 0760 2      !+
191 0761 2      ! Set flag indicating this if the first substitution, and zero the
192 0762 2      ! substitution count.
193 0763 2      !-
194 0764 2      FIRST = 1;
195 0765 2      EDT$$G_EXE_SUBCNT = 0;
196 0766 2      STRINGS_OK = 1;
197 0767 2      SEEN_CC = 0;
198 0768 2      !+
199 0769 2      ! Loop over the range.
200 0770 2      !-
201 0771 2
202 0772 2      WHILE (EDT$$NXT_LNRNG (0) AND ( NOT .EDT$$G_EXE_QRYQUIT) AND .STRINGS_OK AND ( NOT .SEEN_CC)) DO
203 0773 2
204 0774 2          IF (.EDT$$A_WK_LN NEQA EDT$$Z_EOB_LN)
205 0775 2          THEN
```

```
0776 BEGIN
0777
0778 Must set up the search and replace string each time through
0779 in case the range involved a search string, which would clobber
0780 it.
0781
0782 STRINGS_OK = EDT$$SET_STR ();
0783
0784 IF .STRINGS_OK
0785 THEN
0786 BEGIN
0787
0788 Do substitutions in this line starting at position 0.
0789
0790 SEEN_CC = EDT$$CHK_CC ();
0791
0792 IF ( NOT .SEEN_CC)
0793 THEN
0794 BEGIN
0795 EDT$$SUB_NXT (.SINGLE, 0);
0796
0797 Check to see if this was the first line in the range.
0798
0799
0800 IF .FIRST
0801 THEN
0802
0803 Save position after first substitute so we can
0804 correctly reposition there. This is necessary since
0805 modifying the first line might change it's position in
0806 the text buffer, invalidating the previously saved position.
0807
0808 BEGIN
0809 EDT$$CPY_MEM (POS_SIZE, .EDT$$A_CUR_BUF, EDT$$Z_RNG_SAVPOS);
0810 FIRST = 0;
0811 END;
0812
0813 END
0814 ELSE
0815 EDT$$G_CC_DONE = 1;
0816
0817 END;
0818
0819 END;
0820
0821 EDT$$STOP_WKINGMSG ();
0822
0823 Report a case of an invalid string.
0824
0825
0826 IF ( NOT .STRINGS_OK) THEN EDT$$FMT_MSG (EDT$_INVSTR);
0827
0828
0829 If the command came from the terminal, report the number of
0830 substitutions.
0831
0832
```

```

: 263 0833 3 IF (.EDT$$G_INP_SRC EQL INP_TERM)
: 264 0834 3 THEN
: 265 0835 3 BEGIN
: 266 0836 3 MOVELINE (EDT$$L_LNO_ZERO, TEMP_COUNT);
: 267 0837 3 TEMP_COUNT = .EDT$$G_EXE_SUBCNT;
: 268 0838 3 EDT$$FMT_STRCNT (TEMP_COUNT, UPLIT (' substitution'), 13);
: 269 0839 3 EDT$$FMT_CRLF ();
: 270 0840 3 END;
: 271 0841 3
: 272 0842 3
: 273 0843 3 | And re-position.
: 274 0844 3 |
: 275 0845 3 EDT$$CPY_MEM(POS_SIZE, EDT$$Z_RNG_SAVPOS, .EDT$$A_CUR_BUF);
: 276 0846 3 EDT$$RD_CURLN();
: 277 0847 3 END;

```

! of routine EDT\$\$LN\_SUBCMD

```

: .TITLE EDT$LSUBS EDT$LSUBS - SUBSTITUTE line-mode comm
: .IDENT \V04-000\
: .PSECT _EDT$CODE,NOWRT, SHR, PIC,2
: .ASCII \ substitution\<0><0><0>

```

```

00 00 6E 6F 69 74 75 74 69 74 73 62 75 73 20 00000 P.AAA:
00 0000F

```

```

: .EXTRN EDT$$FMT_STRCNT
: .EXTRN EDT$$FMT_CRLF, EDT$$SET_STR
: .EXTRN EDT$$FMT_MSG, EDT$$NXT_CNRNG
: .EXTRN EDT$$RNG_REPOS, EDT$$RD_CURLN
: .EXTRN EDT$$SUB_NXT, EDT$$STOP_WKINGMSG
: .EXTRN EDT$$CHK_CC, EDT$$L_LNO_ZERO
: .EXTRN EDT$$G_INP_SRC, EDT$$A_CUR_BUF
: .EXTRN EDT$$Z_RNG_SAVPOS
: .EXTRN EDT$$A_WK_CN, EDT$$G_RNG_FRSTLN
: .EXTRN EDT$$Z_RNG_ORIGPOS
: .EXTRN EDT$$Z_EOB_LN, EDT$$A_EXE_CURCMD
: .EXTRN EDT$$G_EXE_QRYQUIT
: .EXTRN EDT$$G_EXE_SUBCNT
: .EXTRN EDT$$G_CC_DONE, EDT$_INVSTR

```

```

: .ENTRY EDT$$LN SUBCMD, Save R2,R3,R4,R5,R6,R7,R8,- : 0664
: R9,R10,R11
: MOVAB EDT$$G_EXE_SUBCNT, R11
: MOVAB EDT$$A_CUR_BUF, R10
: SUBL2 #8, SP
: MOVL EDT$$A_EXE_CURCMD, R6 : 0746
: MOVL 4(R6), R7
: MOVL #1, EDT$$G_RNG_FRSTLN : 0752
: MOVL EDT$$A_CUR_BUF, R0 : 0753
: MOVC3 #14, (R0), EDT$$Z_RNG_ORIGPOS
: PUSHL 4(R6) : 0754
: CALLS #1, EDT$$RNG_REPOS
: BLBS R0, 1$
: RET
: CLRL R0 : 0759
: TSTB 1(R7)

```

```

OFFC 00000
5B 00000000G 00 9E 00002
5A 00000000G 00 9E 00009
5E 08 C2 00010
56 00000000G 00 D0 00013
57 04 A6 D0 0001A
00000000G 00 01 D0 0001E
50 6A D0 00025
00000000G 00 60 0E 28 00028
04 A6 DD 00030
00000000G 00 01 FB 00033
01 50 E8 0003A
04 0003D
50 D4 0003E 1$:
01 A7 95 00040

```



		02	12	00043	BNEQ	2\$			
		50	D6	00045	INCL	RO			
	59	50	D0	00047	2\$:	MOVL	RO, SINGLE		
	58	01	D0	0004A	MOVL	#1, FIRST		0764	
		6B	D4	0004D	CLRL	EDT\$G_EXE_SUBCNT		0765	
	56	01	7D	0004F	MOVQ	#1, STRINGS_OK		0766	
		7E	D4	00052	3\$:	CLRL	-(SP)	0772	
	00000000G	00	01	FB	00054	CALLS	#1, EDT\$NXT_LNRNG		
	5D	50	E9	0005B	BLBC	RO, 5\$			
	56	00000000G	00	E8	0005E	BLBS	EDT\$G_EXE_QRYQUIT, 5\$		
	53	56	E9	00065	BLBC	STRINGS_OK, 5\$			
	50	57	E8	00068	BLBS	SEEN_CC, 5\$			
	5C	00000000G	00	9E	0006B	MOVAB	EDT\$Z_EOB_LN, RO	0774	
	50	00000000G	00	D1	00072	CMPL	EDT\$A_WK_CN, RO		
			D7	13	00079	BEQL	3\$		
	00000000G	00	00	FB	0007B	CALLS	#0, EDT\$SET_STR	0782	
	56	50	D0	00082	MOVL	RO, STRINGS_OK			
	CA	56	E9	00085	BLBC	STRINGS_OK, 3\$		0784	
	00000000G	00	00	FB	00088	CALLS	#0, EDT\$CHK_CC	0790	
	57	50	D0	0008F	MOVL	RO, SEEN_CC			
	1D	57	E8	00092	BLBS	SEEN_CC, 4\$		0792	
		7E	D4	00095	CLRL	-(SP)		0795	
		59	DD	00097	PUSHL	SINGLE			
	00000000G	00	02	FB	00099	CALLS	#2, EDT\$SUB_NXT		
	AF	58	E9	000A0	BLBC	FIRST, 3\$		0800	
	50	6A	D0	000A3	MOVL	EDT\$A_CUR_BUF, RO		0809	
	00000000G	00	0E	28	000A6	MOVC3	#14, (RO), EDT\$Z_RNG_SAVPOS		
		58	D4	000AE	CLRL	FIRST		0810	
		A0	11	000B0	BRB	3\$		0792	
	00000000G	00	01	D0	000B2	4\$:	MOVL	#1, EDT\$G_CC_DONE	0815
		97	11	000B9	BRB	3\$		0784	
	00000000G	00	00	FB	000BB	5\$:	CALLS	#0, EDT\$STOP_WKINGMSG	0821
	0D	56	E8	000C2	BLBS	STRINGS_OK, 6\$		0826	
		00000000G	8F	DD	000C5	PUSHL	#EDT\$ INVSTR		
	00000000G	00	01	FB	000CB	CALLS	#1, EDT\$FMT_MSG		
		00000000G	00	D5	000D2	6\$:	TSTL	EDT\$G_INP_SRC	0833
			22	12	000D8	BNEQ	7\$		
	6E	00000000G	00	06	28	000DA	MOVC3	#6, EDT\$SL_LNO_ZERO, TEMP_COUNT	0836
	6E		6B	D0	000E2	MOVL	EDT\$G_EXE_SUBCNT, TEMP_COUNT	0837	
			0D	DD	000E5	PUSHL	#13	0838	
		FF05	CF	9F	000E7	PUSHAB	P.AAA		
		08	AE	9F	000EB	PUSHAB	TEMP_COUNT		
	00000000G	00	03	FB	000EE	CALLS	#3, EDT\$FMT_STRCNT		
	00000000G	00	00	FB	000F5	CALLS	#0, EDT\$FMT_CRLF	0839	
		50	6A	D0	000FC	7\$:	MOVL	EDT\$A_CUR_BUF, RO	0845
	60	00000000G	00	0E	28	000FF	MOVC3	#14, EDT\$Z_RNG_SAVPOS, (RO)	
	00000000G	00	00	FB	00107	CALLS	#0, EDT\$RD_CURCN	0846	
			04	0010E	RET			0847	

: Routine Size: 271 bytes, Routine Base: \_EDT\$CODE + 0010

: 278 0848 1  
: 279 0849 1 !<BLF/PAGE>

EDT\$LSUBS  
V04-000

EDT\$LSUBS - SUBSTITUTE line-mode command  
EDT\$&LN\_SUBCMD - SUBSTITUTE line-mode command

1 14  
16-Sep-1984 01:01:28  
14-Sep-1984 12:23:43

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

: 281 0850 1 END  
: 282 0851 1  
: 283 0852 0 ELUDOM

' of module EDT\$LSUBS

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	287	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Symbols		Percent	Pages Mapped	Processing Time
	Total	Loaded			
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	99	26	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\$:LSUBS/OBJ=OBJ\$:LSUBS MSRCS\$:LSUBS.BLI/UPDATE=(ENHS:LSUBS)

: Size: 271 code + 16 data bytes  
: Run Time: 00:16.5  
: Elapsed Time: 00:19.9  
: Lines/CPU Min: 3101  
: Lexemes/CPU-Min: 9811  
: Memory Used: 120 pages  
: Compilation Complete

LINCL LIS	LPRINT LIS	LQUERY LIS	LRER LIS	LSUB LIS	LTYPE LIS
LGETSTR LIS	LPUTCHR LIS	LSHOW LIS	LSET LIS	LWRITE LIS	LINSERT LIS
LNONCTG LIS					