


```

1 0001 0 %TITLE 'EDT$TILINE - read a command line'
2 0002 0 MODULE EDT$TILINE ( ! Read a command line
3 0003 0 IDENT = 'V04-000' ! File: TILINE.BLI Edit: JBS1014
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
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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 Read a command line.
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: June 9, 1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. DJS 18-FEB-1981. This module was created by
45 0045 1 extracting routine EDT$$TI_RDCMDLN from module TINPUT.
46 0046 1 1-002 - Regularize headers. JBS 11-Mar-1981
47 0047 1 1-003 - Add return value for end of journal file. JBS 02-Oct-1981
48 0048 1 1-004 - Add an alternate terminator. STS 21-Oct-1981
49 0049 1 1-005 - Fix parameter pass to/from char. translator. SMB 27-Oct-1981
50 0050 1 1-006 - Set a flag if control C actually aborted something. JBS 24-May-1982
51 0051 1 1-007 - Remove a reference to TI_STARTECHO. SMB 22-Jun-1982
52 0052 1 1-008 - Allow for 8-bit keyboards. JBS 17-Aug-1982
53 0053 1 1-009 - Add SS3 for 8-bit terminals. JBS 20-Aug-1982
54 0054 1 1-010 - Add a special test for 'Delete' as a terminator. SMB 23-Aug-1982
55 0055 1 1-011 - Don't write into a formal parameter. JBS 24-Aug-1982
56 0056 1 1-012 - Fix a bug in edit 1-011. JBS 25-Aug-1982
57 0057 1 1-013 - Don't modify EDT$$G_PRIV_COL; it is being maintained. JBS 05-Oct-1982

```



```
: 62 0061 1 %SBTTL 'Declarations'  
: 63 0062 1 :  
: 64 0063 1 : TABLE OF CONTENTS:  
: 65 0064 1 :  
: 66 0065 1 :  
: 67 0066 1 REQUIRE 'EDT$SRC:TRAROUNAM';  
: 68 0505 1 :  
: 69 0506 1 FORWARD ROUTINE  
: 70 0507 1 EDT$STI_RDCMDLN;  
: 71 0508 1 :  
: 72 0509 1 :  
: 73 0510 1 : INCLUDE FILES:  
: 74 0511 1 :  
: 75 0512 1 :  
: 76 0513 1 REQUIRE 'EDT$SRC:EDTREQ';  
: 77 0648 1 :  
: 78 0649 1 LIBRARY 'EDT$SRC:SUPPORTS';  
: 79 0650 1 :  
: 80 0651 1 :  
: 81 0652 1 : MACROS:  
: 82 0653 1 :  
: 83 0654 1 : NONE  
: 84 0655 1 :  
: 85 0656 1 : EQUATED SYMBOLS:  
: 86 0657 1 :  
: 87 0658 1 : NONE  
: 88 0659 1 :  
: 89 0660 1 : OWN STORAGE:  
: 90 0661 1 :  
: 91 0662 1 : NONE  
: 92 0663 1 :  
: 93 0664 1 : EXTERNAL REFERENCES:  
: 94 0665 1 :  
: 95 0666 1 : In the routine
```

```

: 97 0667 1 %SBTTL 'EDT$STI_RDCMDLN - read a command line'
: 98 0668 1
: 99 0669 1 GLOBAL ROUTINE EDT$STI_RDCMDLN (
100 0670 1 C
101 0671 1 COM_BUF,
102 0672 1 END_COM,
103 0673 1 TERM,
104 0674 1 RES_TERM
105 0675 1 ) =
106 0676 1
107 0677 1 --
108 0678 1 FUNCTIONAL DESCRIPTION:
109 0679 1
110 0680 1 Read characters up to a terminator into the command buffer. The
111 0681 1 characters are echoed as they are read. Delete is handled and
112 0682 1 CTRL/U aborts the operation.
113 0683 1
114 0684 1 FORMAL PARAMETERS:
115 0685 1
116 0686 1 C The first character to be handled (it was read previously)
117 0687 1
118 0688 1 COM_BUF Pointer into the command buffer where the characters should
119 0689 1 be placed.
120 0690 1
121 0691 1 END_COM A character pointer to receive the pointer after the characters
122 0692 1 have been read.
123 0693 1
124 0694 1 TERM A special terminator. (Escape, CSI and SS3 are always terminators.)
125 0695 1
126 0696 1 RES_TERM The actual terminator.
127 0697 1
128 0698 1 IMPLICIT INPUTS:
129 0699 1
130 0700 1 EDT$ST_CMD_BUF
131 0701 1 EDT$SG_TIN_ECHOPOS
132 0702 1
133 0703 1 IMPLICIT OUTPUTS:
134 0704 1
135 0705 1 EDT$SG_TIN_ECHOFLG
136 0706 1 EDT$SG_CC_DONE
137 0707 1
138 0708 1 ROUTINE VALUE:
139 0709 1
140 0710 1 1 = the string was read,
141 0711 1 0 = aborted by CTRL/U or CTRL/C
142 0712 1 2 = end of journal file
143 0713 1
144 0714 1 SIDE EFFECTS:
145 0715 1
146 0716 1 NONE
147 0717 1
148 0718 1 --
149 0719 1
150 0720 2 BEGIN
151 0721 2
152 0722 2 EXTERNAL ROUTINE
153 0723 2 EDT$SERA_MSGLN,

```

```
154 0724 2 EDT$SCHK_CC,  
155 0725 2 EDT$STRN_KPADK,  
156 0726 2 EDT$STI_INPCH,  
157 0727 2 EDT$STI_DELK : NOVALUE,  
158 0728 2 EDT$STI_ECHOCH : NOVALUE;  
159 0729 2  
160 0730 2 EXTERNAL  
161 0731 2 EDT$ST_CMD_BUF, : Command line buffer  
162 0732 2 EDT$SG_TIN_ECHOFLG, : Flag indicating character have been echoed  
163 0733 2 EDT$SG_TIN_ECHOPOS, : Position on the echo line  
164 0734 2 EDT$SG_CC_DONE; : Set to 1 if control C actually aborts something  
165 0735 2  
166 0736 2 LOCAL  
167 0737 2 COM_POINT,  
168 0738 2 CH : BYTE,  
169 0739 2 KEY;  
170 0740 2  
171 0741 2 COM_POINT = .COM_BUF;  
172 0742 2 !+  
173 0743 2 Use C as the first character.  
174 0744 2 !-  
175 0745 2 CH = .C;  
176 0746 2 !+  
177 0747 2 If the terminator can be any character, then return immediately  
178 0748 2 upon seeing the delete character.  
179 0749 2 !-  
180 0750 2  
181 0751 2 IF (.TERM EQL ASC_K_DEL) THEN RETURN (1);  
182 0752 2  
183 0753 2 WHILE 1 DO  
184 0754 2 BEGIN  
185 0755 2  
186 0756 2 SELECTONE .CH OF  
187 0757 2 SET  
188 0758 2 [ASC_K_DEL] :  
189 0759 2  
190 0760 2 !+  
191 0761 2 Delete character, delete the previous character if there is one.  
192 0762 2 !-  
193 0763 2  
194 0764 2 IF (.COM_POINT NEQ .COM_BUF)  
195 0765 2 THEN  
196 0766 2 BEGIN  
197 0767 2 COM_POINT = CH$PLUS (.COM_POINT, -1);  
198 0768 2 EDT$STI_DELK (CH$RCHAR (.COM_POINT));  
199 0769 2 END;  
200 0770 2  
201 0771 2 [ASC_K_ESC  
202 0772 2  
203 0773 2 L %IF SUPPORT_VT220  
204 0774 2 %THEN  
205 0775 2 , ASC_K_CSI, ASC_K_SS3  
206 0776 2 %FI  
207 0777 2  
208 0778 2 ] :  
209 0779 2 !+  
210 0780 2 Escape, CSI or SS3, terminate the read and gobble up the rest of the escape
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211 0781 3 | or control sequence.
212 0782 3 | -
213 0783 4 | BEGIN
214 0784 4 |
215 0785 4 | IF (EDT$STRN_KPADK (KEY) EQL 0) THEN RETURN (2);
216 0786 4 |
217 0787 4 | .RES TERM = .KEY;
218 0788 4 | EXIT[COOP];
219 0789 4 | END;
220 0790 4 |
221 0791 4 | [.TERM] :
222 0792 4 |
223 0793 4 | + The special terminator, end the read.
224 0794 4 | -
225 0795 4 | BEGIN
226 0796 4 | .RES TERM = .TERM;
227 0797 4 | EXIT[COOP];
228 0798 4 | END;
229 0799 4 |
230 0800 4 | [ASC_K_CTRL_U] :
231 0801 4 | +
232 0802 4 | | Abort the read operation, erasing the echo line.
233 0803 4 | -
234 0804 4 | BEGIN
235 0805 4 | EDT$SG TIN_ECHOFLG = 1;
236 0806 4 | .END COM = .COM_BUF;
237 0807 4 | EDT$SERA MSGLN (?);
238 0808 4 | RETURN (0);
239 0809 4 | END;
240 0810 4 |
241 0811 4 | [OTHERWISE] :
242 0812 4 | +
243 0813 4 | | Place the character in the buffer.
244 0814 4 | -
245 0815 4 |
246 0816 4 | IF CH$PTR_NEQ (.COM_POINT, CH$PLUS (EDT$ST_CMD_BUF, 256))
247 0817 4 | THEN
248 0818 4 | BEGIN
249 0819 4 | CH$WCHAR A (.CH, COM_POINT);
250 0820 4 | EDT$STI_ECHOCH (.CH);
251 0821 4 | END;
252 0822 4 |
253 0823 4 | TES;
254 0824 4 |
255 0825 4 | +
256 0826 4 | | Check for a control C as abort the read.
257 0827 4 | -
258 0828 4 |
259 0829 4 | IF EDT$SCHK_CC ()
260 0830 4 | THEN
261 0831 4 | BEGIN
262 0832 4 | .END COM = .COM_BUF;
263 0833 4 | EDT$SG_CC_DONE = 1;
264 0834 4 | RETURN (0);
265 0835 4 | END;
266 0836 4 |
267 0837 4 | IF (EDT$STI_INPCH (CH) EQL 0) THEN RETURN (2);
```



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3
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2
1
END;
Return a pointer one character beyond the last one read.
.END COM = .COM_POINT;
RETURN (1);
END;

```

! of routine EDT\$STI_RDCMDLN

				.TITLE	EDT\$TILINE EDT\$TILINE - read a command line	
				.IDENT	\V04-000\	
				.EXTRN	EDT\$SERA_MSGLN, EDT\$SCHK_CC	
				.EXTRN	EDT\$STRN_KPADK, EDT\$STI_INPCH	
				.EXTRN	EDT\$STI_DELK, EDT\$STI_ECHOCH	
				.EXTRN	EDT\$ST_CMD_BUF, EDT\$SG_TIN_ECHOFLG	
				.EXTRN	EDT\$SG_TIN_ECHOPOS	
				.EXTRN	EDT\$SG_CC_DONE	
				.PSECT	_EDT\$CODE, NOWRT, SHR, PIC, 2	
				.ENTRY	EDT\$STI_RDCMDLN, Save R2, R3	: 0669
	5E		08	SUBL2	#8, SP	
	53		08	MOVL	COM_BUF, COM_POINT	: 0741
04	AE		04	MOVB	C, CH	: 0745
0000007F	8F		10	CMPL	TERM, #127	: 0751
			03	BNEQ	1\$	
			12	BRW	11\$	
	52		04	MOVZBL	CH, R2	: 0756
7F	8F		52	CMPB	R2, #127	: 0759
			12	BNEQ	2\$	
08	AC		53	CMPL	COM_POINT, COM_BUF	: 0764
			6F	BEQL	7\$	
	7E		73	MOVZBL	-(COM_POINT), -(SP)	: 0768
00000000G	00		01	CALLS	#1, EDT\$STI_DELK	
			63	BRB	7\$: 0764
	1B		52	CMPB	R2, #27	: 0771
			0C	BEQL	3\$	
	8F		52	CMPB	R2, #143	
			06	BEQL	3\$	
	9B		52	CMPB	R2, #155	
			13	BNEQ	4\$	
			5E	PUSHL	SP	: 0785
00000000G	00		01	CALLS	#1, EDT\$STRN_KPADK	
			50	TSTL	R0	
			6E	BEQL	9\$	
	14	BC	6E	MOVL	KEY, @RES_TERM	: 0787
			6C	BRB	10\$: 0783
	10	AC	52	CMPL	R2, TERM	: 0791
			07	BNEQ	5\$	
	14	BC	10	MOVL	TERM, @RES_TERM	: 0796
			5F	BRB	10\$: 0795
	15		52	CMPB	R2, #21	: 0800
			15	BNEQ	6\$	
00000000G	00		01	MOVL	#1, EDT\$SG_TIN_ECHOFLG	: 0805
			01	DO	0006D	

0C	BC	08	AC	D0	00074	MOVL	COM_BUF, @END_COM	:	0806	
00000000G	00		00	FB	00079	CALLS	#0, -EDT\$SERA_MSGLN	:	0807	
			4D	11	00080	BRB	12\$:	0808	
	50	00000000G	00	9E	00082	6\$:	MOVAB	EDT\$ST_CMD_BUF+256, R0	:	0816
	50		53	D1	00089		CMPL	COM_POINT, -R0	:	
			0C	13	0008C		BEQL	7\$:	
	83		52	90	0008E		MOVB	R2, (COM_POINT)+	:	0819
			52	DD	00091		PUSHL	R2	:	0820
00000000G	00		01	FB	00093		CALLS	#1, EDT\$STI_ECHOCH	:	
00000000G	00		00	FB	0009A	7\$:	CALLS	#0, EDT\$SCHR_CC	:	0829
	0E		50	E9	000A1		BLBC	R0, 8\$:	
0C	BC	08	AC	D0	000A4		MOVL	COM_BUF, @END_COM	:	0832
00000000G	00		01	D0	000A9		MOVL	#1, EDT\$SG_CC_DONE	:	0833
			1D	11	000B0		BRB	12\$:	0834
		04	AE	9F	000B2	8\$:	PUSHAB	CH	:	0837
00000000G	00		01	FB	000B5		CALLS	#1, EDT\$STI_INPCH	:	
			50	D5	000BC		TSTL	R0	:	
			03	13	000BE		BEQL	9\$:	
			FF58	31	000C0		BRW	1\$:	
	50		02	D0	000C3	9\$:	MOVL	#2, R0	:	
				04	000C6		RET		:	
0C	BC		53	D0	000C7	10\$:	MOVL	COM_POINT, @END_COM	:	0844
	50		01	D0	000CB	11\$:	MOVL	#1, -R0	:	0845
				04	000CE		RET		:	
			50	D4	000CF	12\$:	CLRL	R0	:	0846
			04	000D1			RET		:	

: Routine Size: 210 bytes, Routine Base: _EDT\$CODE + 0000

: 277 0847 1
: 278 0848 1 !<BLF/PAGE>

EDT\$TILINE
V04-000

EDT\$TILINE - read a command line
EDT\$STI_RDCMDLN - read a command line

N 10
16-Sep-1984 01:56:06
14-Sep-1984 12:24:55

VAX-11 Bliss-32 v4.0-742
DISK\$VM\$MASTER:[EDT.SRC]TILINE.BLI;1 Page 9 (4)

: 280 0849 1 END
: 281 0850 1
: 282 0851 0 ELUDOM

! of module EDT\$TILINE

PSECT SUMMARY

Name Bytes Attributes
_EDT\$CODE 210 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	6	1	40	00:00.3
-\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1
-\$255\$DUA28:[EDT.SRC]SUPPORTS.L32;1	2	1	50	5	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:TILINE/OBJ=OBJ\$:TILINE MSRC\$:TILINE.BLI/UPDATE=(ENH\$:TILINE)

: Size: 210 code + 0 data bytes
: Run Time: 00:14.9
: Elapsed Time: 00:18.2
: Lines/CPU Min: 3438
: Lexemes/CPU-Min: 9357
: Memory Used: 94 pages
: Compilation Complete

0140 AH-BT13A-SE
VAX/VMS V4.0

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This image displays a grid of numerous small terminal screens, each showing a different system utility or application running on a VAX/VMS system. The screens are arranged in approximately 10 rows and 15 columns. Many of the visible titles include 'LIS' (List) and 'LIT' (List) extensions, such as:

- SCRUPDATM LIS
- STARTED LIS
- SETCOMMAN LIS
- TIAUTO LIS
- TIDDELETE LIS
- TILNE LIS
- TRACEMAC LIS
- UFBUFFER LIS
- UEXACASE LIS
- TITYPAD LIS
- TSTKEYDEF LIS
- TICLRAUD LIS
- SUPPORTS LIS
- TICCHAR LIS
- TIECHO LIS
- TRAROUNAM LIS
- TRANSLATE LIS
- UFSTRING LIS
- SYSUAX LIS
- SCRWID LIS
- TRACELIT LIS
- UEUTCASE LIS

The content of each screen varies, typically showing command-line interfaces, data listings, or diagnostic information.