





```

1 0001 0 %TITLE 'EDTSMACCAL - macro call'
2 0002 0 MODULE EDTSMACCAL ( ! Macro call
3 0003 0 IDENT = 'V04-000' ! File: MACCAL.BLI Edit: JBS1008
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 Macro call
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: 6-AUG-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$MAC_CALL from module EDTCTR.
46 0046 1 1-002 - Regularize headers and fix file and module name. JBS 04-Mar-1981
47 0047 1 1-003 - Remove L_LINE. JBS 01-Oct-1981
48 0048 1 1-004 - Replace C_LINE. TMV 7-Dec-81
49 0049 1 1-005 - Add an entry point so that EDT$EXE_CMD_NOOVERLAY can
50 0050 1 get this module back into memory after a macro has been executed. JBS 10-Mar-1982
51 0051 1 1-006 - Save and restore the command line over a macro call, so another
52 0052 1 command can be after the macro name. JBS 03-Jun-1982
53 0053 1 1-007 - See if a control C was found and reset command buffer. STS 16-Jul-1982
54 0054 1 1-008 - Improve the appearance of the listing. JBS 14-Jun-1983
55 0055 1 --
56 0056 1

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```
58 0057 1 %SBTTL 'Declarations'  
59 0058 1 :  
60 0059 1 : TABLE OF CONTENTS:  
61 0060 1 :  
62 0061 1 :  
63 0062 1 REQUIRE 'EDTSRC:TRAROUNAM';  
64 0501 1 :  
65 0502 1 FORWARD ROUTINE  
66 0503 1     EDT$MAC_CALL : NOVALUE,  
67 0504 1     EDT$LOAD_MACCAL : NOVALUE;  
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
```

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92 0662 1 %SBTTL 'EDTSSMAC_CALL - macro call'
93 0663 1
94 0664 1 GLOBAL ROUTINE EDTSSMAC_CALL (           ! Macro call
95 0665 1     MAC                               ! Address of the macro
96 0666 1     ) : NOVALUE =
97 0667 1
98 0668 1
99 0669 1 ++
100 0670 1 FUNCTIONAL DESCRIPTION:
101 0671 1     Call a macro. A macro is a buffer which contains line-mode
102 0672 1     commands.
103 0673 1
104 0674 1 FORMAL PARAMETERS:
105 0675 1
106 0676 1     MAC                               Address of the macro
107 0677 1
108 0678 1 IMPLICIT INPUTS:
109 0679 1
110 0680 1     EDTSSA_CUR_BUF
111 0681 1     EDTSSA_MAC_BUF
112 0682 1     EDTSSA_CMD_BUF
113 0683 1     EDTSSG_CMD_LEN
114 0684 1     EDTSST_CMD_BUF
115 0685 1     EDTSSA_CMD_END
116 0686 1
117 0687 1 IMPLICIT OUTPUTS:
118 0688 1
119 0689 1     EDTSSA_UR_BUF
120 0690 1     EDTSSA_MAC_BUF
121 0691 1     EDTSSA_CMD_BUF
122 0692 1     EDTSSA_CMD_END
123 0693 1     EDTSSG_CC_DONE
124 0694 1
125 0695 1 ROUTINE VALUE:
126 0696 1
127 0697 1     NONE
128 0698 1
129 0699 1 SIDE EFFECTS:
130 0700 1
131 0701 1     Saves and restores the command line.
132 0702 1
133 0703 1 --
134 0704 1
135 0705 1 BEGIN
136 0706 1
137 0707 1 EXTERNAL ROUTINE
138 0708 1     EDT$EXE_CMD NOOVERLAY,           ! Same as EDT$EXE_CMD but no overlay analysis
139 0709 1     EDT$SRD_CURLN : NOVALUE,
140 0710 1     EDT$STOP_BUF : NOVALUE,
141 0711 1     EDT$ALO_HEAP,                   ! Allocate heap storage
142 0712 1     EDT$DEA_HEAP : NOVALUE,         ! Deallocate heap storage
143 0713 1     EDT$FMT_MSG : NOVALUE;         ! Format a message
144 0714 1
145 0715 1 EXTERNAL
146 0716 1     EDT$SG_CC_DONE,
147 0717 1     EDT$SA_CUR_BUF,                 ! Current tbc
148 0718 1     EDT$SG_CMD_LEN,

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```
149 0719 2 EDT$ST_CMD_BUF,
150 0720 2 EDT$$A_MAC_BUF, ! Current macro buffer pointer
151 0721 2 EDT$$A_CMD_BUF, ! Pointer to the current command
152 0722 2 EDT$$A_CMD_END; ! End of the current command
153 0723 2
154 0724 2 LOCAL
155 0725 2 STATUS,
156 0726 2 SAVE_TBCB,
157 0727 2 SAVE_MACRO,
158 0728 2 SAVE_CMD_BUF,
159 0729 2 SAVE_CMD_END,
160 0730 2 CMD_TEXT: REF VECTOR [, BYTE],
161 0731 2 CMD_LENGTH;
162 0732 2
163 0733 2 MESSAGES ((INSMEM));
164 0734 2 !+
165 0735 2 - Save the current command line.
166 0736 2
167 0737 2 SAVE_CMD_BUF = .EDT$$A_CMD_BUF;
168 0738 2 SAVE_CMD_END = .EDT$$A_CMD_END;
169 0739 2 CMD_LENGTH = CH$DIFF (CH$PCUS (.SAVE_CMD_END, 1), .SAVE_CMD_BUF);
170 0740 2
171 0741 2 IF (.CMD_LENGTH GTR 0)
172 0742 2 THEN
173 0743 2 BEGIN
174 0744 2
175 0745 2 IF EDT$$ALO_HEAP (CMD_LENGTH, CMD_TEXT)
176 0746 2 THEN
177 0747 2 CH$MOVE (.CMD_LENGTH, .SAVE_CMD_BUF, .CMD_TEXT)
178 0748 2 ELSE
179 0749 2 BEGIN
180 0750 2 EDT$$FMT_MSG (EDT$_INSMEM);
181 0751 2 RETURN;
182 0752 2 END;
183 0753 2
184 0754 2 END;
185 0755 2
186 0756 2 !+
187 0757 2 - Point the command processor to the macro without destroying
188 0758 2 the current buffer or the current macro.
189 0759 2
190 0760 2 SAVE_TBCB = .EDT$$A_CUR_BUF;
191 0761 2 EDT$$A_CUR_BUF = .MAC;
192 0762 2 EDT$$STOP_BUF ();
193 0763 2 EDT$$A_CUR_BUF = .SAVE_TBCB;
194 0764 2 EDT$$RD_CURLN ();
195 0765 2 SAVE_MACRO = .EDT$$A_MAC_BUF;
196 0766 2 EDT$$A_MAC_BUF = .MAC;
197 0767 2 !+
198 0768 2 - Execute the commands in the specified buffer.
199 0769 2
200 0770 2 STATUS = EDT$$EXE_CMD_NOOVERLAY (INP_MACRO);
201 0771 2 !+
202 0772 2 - Restore the former macro.
203 0773 2
204 0774 2 EDT$$A_MAC_BUF = .SAVE_MACRO;
205 0775 2 !+
```

```

: 206 0776 2 ! Restore the former command line contents, if any.
: 207 0777 !-
: 208 0778 EDTSSA_CMD_BUF = .SAVE_CMD_BUF;
: 209 0779 EDTSSA_CMD_END = .SAVE_CMD_END;
: 210 0780
: 211 0781 IF (.CMD_LENGTH GTR 0)
: 212 0782 THEN
: 213 0783 BEGIN
: 214 0784 CH$MOVE (.CMD_LENGTH, .CMD_TEXT, .SAVE_CMD_BUF);
: 215 0785 EDTSSDEA_HEAP(CMD_LENGTH, CMD_TEXT);
: 216 0786 END;
: 217 0787
: 218 0788 IF (.STATUS EQL 2) ! if we saw a control C
: 219 0789 THEN
: 220 0790 BEGIN
: 221 0791
: 222 0792 IF (.EDTSSA_CMD_END NEQ .EDTSSA_CMD_BUF) THEN EDTSSG_CC_DONE = 1;
: 223 0793
: 224 0794 EDTSSA_CMD_BUF = EDTSS CMD_BUF;
: 225 0795 EDTSSA_CMD_END = .EDTSSA_CMD_BUF;
: 226 0796 CH$WCHAR (%C'!', .EDTSSA_CMD_END);
: 227 0797 END;
: 228 0798
: 229 0799 1 END; ! of routine EDTSMAC_CALL

```

.TITLE EDTSMACCAL EDTSMACCAL - macro call  
.IDENT \V04-000\

.EXTRN EDTSS\$EXE\_CMD NOOVERLAY  
.EXTRN EDTSSRD CURLN, EDTSS\$TOP\_BUF  
.EXTRN EDTSSALO\_HEAP, EDTSSDEA\_HEAP  
.EXTRN EDTSSFMT\_MSG, EDTSSG\_CC\_DONE  
.EXTRN EDTSSA\_CUR\_BUF, EDTSSG\_CMD\_LEN  
.EXTRN EDTSS CMD\_BUF, EDTSSA\_MAC\_BUF  
.EXTRN EDTSSA\_CMD\_BUF, EDTSSA\_CMD\_END  
.EXTRN EDTSS\_INSMEM

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

OFFC 00000

```

.ENTRY EDTSSMAC CALL, Save R2,R3,R4,R5,R6,R7,R8,- : 0664
R9,R10,RT1
MOVAB EDTSSA_CUR_BUF, R11
MOVAB EDTSSA_CMD_BUF, R10
MOVAB EDTSSA_CMD_END, R9
SUBL2 #8, SP
MOVL EDTSSA_CMD_BUF, SAVE_CMD_BUF : 0737
MOVL EDTSSA_CMD_END, SAVE_CMD_END : 0738
SUBL3 SAVE_CMD_BUF, SAVE_CMD_END, R0 : 0739
MOVAB 1(ROT), CMD_LENGTH
BLEQ 2$ : 0741
PUSHL SP : 0745
PUSHAB CMD_LENGTH
CALLS #2, EDTSSALO_HEAP
BLBC R0, 1$
MOVBC3 CMD_LENGTH, (SAVE_CMD_BUF), @CMD_TEXT : 0747
BRB 2$

```

```

5B 00000000G 00 9E 00002
5A 00000000G 00 9E 00009
59 00000000G 00 9E 00010
5E 08 C2 00017
57 6A D0 0001A
56 69 D0 0001D
50 56 57 C3 00020
04 AE 01 A0 9E 00024
25 15 00029
5E DD 0002B
08 AE 9F 0002D
00000000G 00 02 FB 00030
08 50 E9 00037
00 BE 67 04 AE 28 0003A
0E 11 00040

```

00000000G	00	00000000G	8F	DD	00042	1\$:	PUSHL	#EDT\$ INSMEM	:	0750
			01	FB	00048		CALLS	#1, EDT\$\$FMT_MSG	:	
					04		RET		:	0749
	52		6B	D0	00050	2\$:	MOVL	EDT\$\$A_CUR_BUF, SAVE_TBCB	:	0760
	6B	04	AC	D0	00053		MOVL	MAC, EDT\$\$A_CUR_BUF	:	0761
00000000G	00		00	FB	00057		CALLS	#0, EDT\$\$STOP_BUF	:	0762
	6B		52	D0	0005E		MOVL	SAVE_TBCB, EDT\$\$A_CUR_BUF	:	0763
00000000G	00		00	FB	00061		CALLS	#0, EDT\$\$RD_CURLN	:	0764
	52	00000000G	00	D0	00068		MOVL	EDT\$\$A_MAC_BUF, SAVE_MACRO	:	0765
00000000G	00		04	AC	0006F		MOVL	MAC, EDT\$\$A_MAC_BUF	:	0766
			01	DD	00077		PUSHL	#1	:	0770
00000000G	00		01	FB	00079		CALLS	#1, EDT\$\$EXE_CMD_NOOVERLAY	:	
	58		50	D0	00080		MOVL	RO, STATUS	:	
00000000G	00		52	D0	00083		MOVL	SAVE_MACRO, EDT\$\$A_MAC_BUF	:	0774
	6A		57	D0	0008A		MOVL	SAVE_CMD_BUF, EDT\$\$A_CMD_BUF	:	0778
	69		56	D0	0008D		MOVL	SAVE_CMD_END, EDT\$\$A_CMD_END	:	0779
			04	AE	00090		TSTL	CMD_LENGTH	:	0781
			12	15	00093		BLEQ	3\$	:	
67	00	BE	04	AE	28	00095	MOVC3	CMD_LENGTH, @CMD_TEXT, (SAVE_CMD_BUF)	:	0784
			5E	DD	0009B		PUSHL	SP	:	0785
			08	AE	9F	0009D	PUSHAB	CMD_LENGTH	:	
00000000G	00		02	FB	000A0		CALLS	#2, EDT\$\$DEA_HEAP	:	
	02		58	D1	000A7	3\$:	CPL	STATUS, #2	:	0788
			1C	12	000AA		BNEQ	5\$	:	
	6A		69	D1	000AC		CPL	EDT\$\$A_CMD_END, EDT\$\$A_CMD_BUF	:	0792
			07	13	000AF		BEQL	4\$	:	
00000000G	00		01	D0	000B1		MOVL	#1, EDT\$\$G_CC_DONE	:	
	6A	00000000G	00	9E	000B8	4\$:	MOVAB	EDT\$\$T_CMD_BUF, EDT\$\$A_CMD_BUF	:	0794
	69		6A	D0	000BF		MOVL	EDT\$\$A_CMD_BUF, EDT\$\$A_CMD_END	:	0795
	50		69	D0	000C2		MOVL	EDT\$\$A_CMD_END, RO	:	0796
	60		21	90	000C5		MOVB	#33, (RO)	:	
			04	000C8	5\$:		RET		:	0799

: Routine Size: 201 bytes, Routine Base: \_EDT\$CODE + 0000

: 230 0800 1



```

: 232 0801 1 %SBTTL 'EDT$$LOAD_MACCAL - load this module into memory'
: 233 0802 1
: 234 0803 1 GLOBAL ROUTINE EDT$$LOAD_MACCAL ! Load this module into memory
: 235 0804 1 : NOVALUE =
: 236 0805 1
: 237 0806 1 +-
: 238 0807 1 FUNCTIONAL DESCRIPTION:
: 239 0808 1
: 240 0809 1 This routine has no function. It exists as an entry point so that
: 241 0810 1 EDT$$EXE_CMD_NOOVERLAY can call this module back into memory before
: 242 0811 1 returning to it.
: 243 0812 1
: 244 0813 1 FORMAL PARAMETERS:
: 245 0814 1
: 246 0815 1 NONE
: 247 0816 1
: 248 0817 1 IMPLICIT INPUTS:
: 249 0818 1
: 250 0819 1 NONE
: 251 0820 1
: 252 0821 1 IMPLICIT OUTPUTS:
: 253 0822 1
: 254 0823 1 NONE
: 255 0824 1
: 256 0825 1 ROUTINE VALUE:
: 257 0826 1
: 258 0827 1 NONE
: 259 0828 1
: 260 0829 1 SIDE EFFECTS:
: 261 0830 1
: 262 0831 1 NONE
: 263 0832 1
: 264 0833 1 --
: 265 0834 1
: 266 0835 2 BEGIN
: 267 0836 2 0
: 268 0837 1 END; ! of routine EDT$$LOAD_MACCAL

```

0000 0000  
04 00002

.ENTRY EDT\$\$LOAD\_MACCAL, Save nothing  
RET

: 0803  
: 0837

: Routine Size: 3 bytes, Routine Base: \_EDT\$CODE + 00C9

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: 269 0838 1
: 270 0839 1 !<BLF/PAGE>

```

EDTSMACCAL  
V04-000

EDTSMACCAL - macro call  
EDTSSLOAD\_MACCAL - load this module into memory

M 5  
16-Sep-1984 01:07:09  
14-Sep-1984 12:23:50

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

Page 8  
(5)

: 272 0840 1 END  
: 273 0841 1  
: 274 0842 0 ELUDOM

! of module EDTSMACCAL

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	204	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	2	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\$:MACCAL/OBJ=OBJ\$:MACCAL MSRC\$:MACCAL.BLI/UPDATE=(ENH\$:MACCAL)

: Size: 204 code + 0 data bytes  
: Run Time: 00:14.5  
: Elapsed Time: 00:18.1  
: Lines/CPU Min: 3496  
: Lexemes/CPU-Min: 9707  
: Memory Used: 91 pages  
: Compilation Complete

MCGETLIN LIS	MCRIGHT LIS	MCCHANGE LIS	MACCAL LIS	MCGETXT LIS	MCTOP LIS	MCDOWN LIS	MCLEFT LIS	MCBOTTOM LIS	MCUP LIS
LXCOMM0 LIS	NOOPEN LIS	PRAPPNUM LIS	PRGETTOK LIS	PRISTOK LIS	LXPRINT LIS	PAUDIT LIS	PRGETCHR LIS	LXCOM LIS	MAIN LIS