

EEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTT
EEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTT
EEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTT
EEE	DDD	TTT
EEEEEEEEE	DDD	TTT
EEEEEEEEE	DDD	TTT
EEEEEEEEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEE	DDDDDDDDDDDDDD	TTTT
EEEEEEEEE	DDDDDDDDDDDDDD	TTTT
EEEEEEEEE	DDDDDDDDDDDDDD	TTTT

\*\*FILE\*\*ID\*\*CHMESS

G 2

EDT  
V04

CCCCCCCC HH HH MM MM MM MM EEEEEEEEEE SSSSSSSS SSSSSSSS  
CCCCCCCC HH HH MMMM MMMM MMMM EE SS SS SS SS  
CC HH HH MMMM MMMM MMMM EE SS SS SS SS  
CC HH HH MM MM MM MM EE SS SS SS SS  
CC HH HH MM MM MM MM EE SS SS SS SS  
CC HHHHHHHHHHHH MM MM MM MM EEEEEEEEEE SSSSSS SSSSSS  
CC HHHHHHHHHHHH MM MM MM MM EEEEEEEEEE SSSSSS SSSSSS  
CC HH HH MM MM MM MM EE SS SS SS SS  
CC HH HH MM MM MM MM EE SS SS SS SS  
CC HH HH MM MM MM MM EE SS SS SS SS  
CC CCCCCCCC HH HH MM MM MM MM EEEEEEEEEE SSSSSSSS SSSSSSSS  
CCCCCCCC HH HH MM MM MM MM EEEEEEEEEE SSSSSSSS SSSSSSSS

LL IIIII SSSSSSSS  
LL IIIII SS SSSSSSSS  
LL IIIII SS SSSSSS  
LLLLLLLLL IIIII SSSSSSSS  
LLLLLLLLL IIIII SSSSSSSS

```
0001 0 XTITLE 'EDTSCHMESS - output a message'  
0002 0 MODULE EDTSCHMESS (  
0003 0 IDENT = 'V04-000'  
0004 0 )=  
0005 1 BEGIN  
0006 1:  
0007 1*****  
0008 1:  
0009 1: * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
0010 1: * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.  
0011 1: * ALL RIGHTS RESERVED.  
0012 1:  
0013 1: * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  
0014 1: * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE  
0015 1: * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER  
0016 1: * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  
0017 1: * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY  
0018 1: * TRANSFERRED.  
0019 1:  
0020 1: * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE  
0021 1: * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT  
0022 1: * CORPORATION.  
0023 1:  
0024 1: * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS  
0025 1: * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.  
0026 1:  
0027 1:  
0028 1*****  
0029 1:  
0030 1:  
0031 1:++  
0032 1: FACILITY: EDT -- The DEC Standard Editor  
0033 1:  
0034 1: ABSTRACT:  
0035 1:  
0036 1: This module outputs a message on the last line of the terminal.  
0037 1:  
0038 1: ENVIRONMENT: Runs at any access mode - AST reentrant  
0039 1:  
0040 1: AUTHOR: Bob Kushlis, CREATION DATE: Unknown  
0041 1:  
0042 1: MODIFIED BY:  
0043 1:  
0044 1: 1-001 - Original. DJS 04-Feb-1981. This module was created by  
0045 1: extracting the routine EDT$SOUT_MSG from module CHANGE.BLI.  
0046 1: 1-002 - Regularize headers. JBS 03-Mar-1981  
0047 1: 1-003 - Make this routine general for messages or strings. SMB 30-Jun-1982  
0048 1: 1-004 - Remove setting to TI_WRSTR in case HCPY change mode. SMB 02-Jul-1982  
0049 1: 1-005 - Set EDT$SG_LASTMSG. JBS 05-Jul-1982  
0050 1: 1-006 - Call EDT$SFMT_STR instead of EDT$FMT_LIT, so EDT$SG_PRV_COL will be  
0051 1: kept up to date. JBS 05-Oct-1982  
0052 1: 1-007 - Don't clear EDT$SG_SCR CHGD. JBS 09-Oct-1982  
0053 1: 1-008 - Bypass most of the fancy stuff if we are in hardcopy change mode. JBS 16-Nov-1982  
0054 1: 1-009 - Check for terminal type unknown also. SMB 03-Dec-1982  
0055 1: 1-010 - Treat message number 0 as meaning no message. JBS 01-Apr-1983  
0056 1:--  
0057 1:
```

EDTSCHMESS  
VO4-000

EDTSCHMESS - output a message  
Declarations

I 2  
16-Sep-1984 00:04:03  
14-Sep-1984 12:22:38 VAX-11 Bliss-32 v4.0-742  
DISK\$VMSMASTER:[EDT.SRC]CHMESS.BLI;1 Page 2  
EDT  
VO4

```
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     EDTSSOUT_MSG : 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  
83      0654 1  
84      0655 1 OWN STORAGE:  
85      0656 1  
86      0657 1  
87      0658 1  
88      0659 1 EXTERNAL REFERENCES:  
89      0660 1  
90      0661 1     In the routine  
                           ! Output a message on the last line of the terminal
```

```

92 0662 1 %SBTTL 'EDT$SOUT_MSG - output a message'
93 0663 1
94 0664 1 GLOBAL ROUTINE EDT$SOUT_MSG (
95 0665 1   POS,                                ! Output a message
96 0666 1   MESS,                               ! Line number for this message
97 0667 1   ADDR,                               ! The message number to output
98 0668 1   LEN,                                ! Address of a string
99 0669 1   ) : NOVALUE =
100 0670 1
101 0671 1 //!
102 0672 1 FUNCTIONAL DESCRIPTION:
103 0673 1
104 0674 1 This routine outputs a message on the last line of the terminal.
105 0675 1 The input parameters are the line position for the message,
106 0676 1 the message number (if it is a message), or the message string and
107 0677 1 its length if no message number is present.
108 0678 1
109 0679 1 FORMAL PARAMETERS:
110 0680 1
111 0681 1 POS          The line number on which to print message
112 0682 1 MESS         The number of the message to output
113 0683 1 ADDR         The address of a string message
114 0684 1 LEN          The length of the string message
115 0685 1
116 0686 1
117 0687 1
118 0688 1
119 0689 1 IMPLICIT INPUTS:
120 0690 1
121 0691 1   EDTSSA_FMT_WRRUT
122 0692 1   EDT$G_MESSAGE_LINE
123 0693 1   EDT$G_TI_TYP
124 0694 1
125 0695 1 IMPLICIT OUTPUTS:
126 0696 1
127 0697 1   EDT$G_PRV_COL
128 0698 1   EDT$G_TIN_ECHOPOS
129 0699 1   EDT$G_MSGFLG
130 0700 1   EDT$G_LASTMSG
131 0701 1
132 0702 1 ROUTINE VALUE:
133 0703 1
134 0704 1   NONE
135 0705 1
136 0706 1 SIDE EFFECTS:
137 0707 1
138 0708 1   NONE
139 0709 1
140 0710 1 ---
141 0711 1
142 0712 2 BEGIN
143 0713 2
144 0714 2 EXTERNAL ROUTINE
145 0715 2   EDT$STOP_WKINGMSG,           ! Stop the working message
146 0716 2   EDT$FMT_STR,                ! Put a string in format buffer
147 0717 2   EDT$SOUT_FMTBUF,            ! Output the format buffer
148 0718 2   EDT$SC_POSCSIF,             ! Put cursor position in format buffer

```

```

149 0719 2 EDTSSC_ERATOEOL;
150 0720 2 EDTSSC_REVID;
151 0721 2 EDTSSMSG_TOSTR;
152 0722 2
153 0723 2 EXTERNAL
154 0724 2 EDTSSG_MESSAGE_LINE,
155 0725 2 EDTSSG_TIN_ECHOPOS,
156 0726 2 EDTSSG_MSGFLG,
157 0727 2 EDTSSG_PRV_COL,
158 0728 2 EDTSSG_LASTMSG,
159 0729 2 EDTSSG_TI_TYP;
160 0730 2
161 0731 2 EDTSSSTOP_WKINGMSG ();
162 0732 2 !+ If the message is being printed on the last line, then we want it to
163 0733 2 stay there until the user hits a key, but we don't want to issue the
164 0734 2 PRTC message.
165 0735 2 !-
166 0736 2
167 0737 2
168 0738 3 IF (.POS EQ .EDTSSG_MESSAGE_LINE + 1)
169 0739 2 THEN
170 0740 3 BEGIN
171 0741 3 EDTSSG_TIN_ECHOPOS = 0;
172 0742 3 EDTSSG_MSGFLG = 1;
173 0743 2 END;
174 0744 2
175 0745 2 !+
176 0746 2 !+ Don't do anything fancy if this is a hard copy terminal.
177 0747 2 !-
178 0748 2
179 0749 3 IF (.EDTSSG_TI_TYP NEQ TERM_HCPY) AND (.EDTSSG_TI_TYP NEQ TERM_UNKNOWN)
180 0750 2 THEN
181 0751 3 BEGIN
182 0752 3 !+
183 0753 3 !+ Force the cursor to the indicated line and column
184 0754 3 !-
185 0755 3 EDTSSC_POSCSIF (.POS, .EDTSSG_TIN_ECHOPOS);
186 0756 3 !+
187 0757 3 !+ Erase the line.
188 0758 3 !-
189 0759 3 EDTSSC_ERATOEOL ();
190 0760 3 !+
191 0761 3 !+ Turn reverse video on.
192 0762 3 !-
193 0763 3 EDTSSC_REVID ();
194 0764 2 END;
195 0765 2
196 0766 2 !+
197 0767 2 !+ Get the message.
198 0768 2 !-
199 0769 2
200 0770 3 IF (.LEN NEQ 0)
201 0771 2 THEN
202 0772 3 BEGIN
203 0773 3 EDTSSFMT_STR (.ADDR, .LEN);
204 0774 3 EDTSSG_LASTMSG = 1;
205 0775 3 END

```

EDTSCHMESS  
V04-000

EDTSCHMESS - output a message  
EDTSSOUT\_MSG - output a message

L 2  
16-Sep-1984 00:04:03  
14-Sep-1984 12:22:38  
VAX-11 BLISS-32 V4.0-742  
DISK\$VMSMASTER:[EDT.SRC]CHMESS.BLI;1 Page 5  
(3)

206 0776 2 ELSE  
207 0777 2  
208 0778 3 IF (.MESS NEQ 0)  
209 0779 2 THEN  
210 0780 3 BEGIN  
211 0781 3 EDTSSMSG\_TOSTR (.MESS);  
212 0782 3 EDTSSG\_LASTMSG = .MESS;  
213 0783 2 END;  
214 0784 2  
215 0785 2 !+ Write out the buffer.  
216 0786 2 !- EDTSSOUT\_FMTBUF ();  
217 0787 2  
218 0788 2 END;  
219 0789 1 ! of routine EDTSSOUT\_MSG

.TITLE EDTSCHMESS EDTSCHMESS - output a message  
.IDENT \V04-000\

.EXTRN EDTSSSTOP\_WKINGMSG  
.EXTRN EDTSSFMT\_STR, EDTSSOUT\_FMTBUF  
.EXTRN EDTSSSC\_POSCSIF  
.EXTRN EDTSSSC\_ERATOEOL  
.EXTRN EDTSSSC\_REVID, EDTSSMSG\_TOSTR  
.EXTRN EDTSSG\_MESSAGE\_LINE  
.EXTRN EDTSSG\_TIN\_ECHOPOS  
.EXTRN EDTSSG\_MSGFLG, EDTSSG\_PRV\_COL  
.EXTRN EDTSSG\_LASTMSG, EDTSSG\_TI\_TYP

.PSECT \_EDTSCODE,NOWRT, SHR, PIC,2

50 00000000G	54 00000000G	00 001C 00000	.ENTRY EDTSSOUT_MSG, Save R2,R3,R4	: 0664
50 00000000G	53 00000000G	00 9E 00002	MOVAB EDTSSG_LASTMSG, R4	
00 00000000G	00 00000000G	00 9E 00009	MOVAB EDTSSG_TIN_ECHOPOS, R3	: 0731
50 00000000G	00 00000000G	00 FB 00010	CALLS #0, EDTSSSTOP_WKINGMSG	
50 00000000G	00 00000000G	01 C1 00017	ADDL3 #1, EDTSSG_MESSAGE_LINE, R0	: 0738
50 00000000G	50 00000000G	AC D1 0001F	CMPL POS, R0	
04	04	09 12 00023	BNEQ 1\$	
		63 D4 00025	CLRL EDTSSG_TIN_ECHOPOS	: 0741
		01 D0 00027	MOVL #1, EDTSSG_MSGFLG	: 0742
00 00000000G	00 00000000G	00 D0 0002E	MOVL EDTSSG_TI_TYP, R0	: 0749
03	03	50 D1 00035	CMPL R0, #3	
		1E 13 00038	BEQL 2\$	
		50 D5 0003A	TSTL R0	
		1A 13 0003C	BEQL 2\$	
		63 DD 0003E	PUSHL EDTSSG_TIN_ECHOPOS	: 0755
		AC DD 00040	PUSHL POS	
00 00000000G	00	02 FB 00043	CALLS #2, EDTSSC_POSCSIF	
00 00000000G	00	00 FB 0004A	CALLS #0, EDTSSC_ERATOEOL	: 0759
00 00000000G	00	00 FB 00051	CALLS #0, EDTSSC_REVID	: 0763
		10 AC D5 00058	TSTL LEN	
		28: 10 13 0005B	BEQL 3\$	: 0770
		AC 7D 0005D	MOVO ADDR -(SP)	: 0773
00 00000000G	7E	02 FB 00061	CALLS #2, EDTSSFMT_STR	
64	00	01 D0 00068	MOVL #1, EDTSSG_LASTMSG	: 0774
		12 11 0006B	BRB 4\$	: 0770
		52 08 AC D0 0006D	MOVL MESS, R2	: 0778

EDT\$CHMESS  
V04-000

EDT\$CHMESS - output a message  
EDT\$\$OUT\_MSG - output a message

M 2

16-Sep-1984 00:04:03  
14-Sep-1984 12:22:38

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

Page (3)

00000000G 00	01 13 00071	BEQL	4\$	
64	52 DD 00073	PUSHL	R2	0781
00000000G 00	01 FB 00075	CALLS	#1, EDT\$\$MSG_TOSTR	0782
	52 D0 0007C	MOVL	R2, EDT\$\$G_LASTMSG	0788
	00 FB 0007F 4\$:	CALLS	#0, EDT\$\$OUT_FMTBUF	0789
	04 00086	RET		

; Routine Size: 135 bytes, Routine Base: \_EDT\$CODE + 0000

; 220        0790 1  
; 221        0791 1 !<BLF/PAGE>

EDT\$CHMESS  
V04-000      EDT\$CHMESS - output a message  
                EDT\$SOUT\_MSG - output a message  
:  
: 223      0792 1 END  
: 224      0793 1  
: 225      0794 0 ELUDOM

N 2  
16-Sep-1984 00:04:03      VAX-11 Bliss-32 v4.0-742  
14-Sep-1984 12:22:38      DISK\$VMSMASTER:[EDT.SRC]CHMESS.BLI;1 Page 7  
                ! of module EDT\$CHMESS

EDT'  
V04

#### PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	135	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

#### Library Statistics

File	----- Symbols -----	Total	Loaded	Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[EDT.SRC]EDT.L32:1	377	2	1	50	40	00:00.2
-\$255\$DUA28:[EDT.SRC]PSECTS.L32:1	2				7	00:00.1

#### COMMAND QUALIFIERS

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

Size:      135 code + 0 data bytes  
Run Time:    00:11.9  
Elapsed Time: 00:15.0  
Lines/CPU Min: 4006  
Lexemes/CPU-Min: 10289  
Memory Used: 72 pages  
Compilation Complete

0132 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

