

[illegible]

EXE

Mod

EDT

ED

ED
EDED
EDED
EDED
ED

ED

ED

ED

ED

ED
EDSYN
LBA

110

.....

```

CCCCCCCCC HH   HH   MM   MM   CCCCCCCCCC MM   MM   BBBB88888 LL   IIIIII   NN   NN
CCCCCCCCC HH   HH   MM   MM   CCCCCCCCCC MM   MM   BBBB88888 LL   IIIIII   NN   NN
CC          HH   HH   MMMM MMMM CC          MMMM MMMM BB      BB LL   II      NN   NN
CC          HH   HH   MMMM MMMM CC          MMMM MM   MM BB      BB LL   II      NNNN NN
CC          HH   HH   MM   MM   CC          MM   MM   MM BB      BB LL   II      NNNN NN
CC          HH   HH   MM   MM   CC          MM   MM   MM BB888888 LL   II      NN   NN
CC          HH   HH   MM   MM   CC          MM   MM   MM BB888888 LL   II      NN   NN
CC          HH   HH   MM   MM   CC          MM   MM   MM BB      BB LL   II      NN   NN
CC          HH   HH   MM   MM   CC          MM   MM   MM BB      BB LL   II      NN   NN
CC          HH   HH   MM   MM   CC          MM   MM   MM BB      BB LL   II      NN   NN
CC          HH   HH   MM   MM   CC          MM   MM   MM BB      BB LL   II      NN   NN
CCCCCCCCC HH   HH   MM   MM   CCCCCCCCCC MM   MM   BBBB88888 LLLLLLLLLL IIIIII   NN   NN
CCCCCCCCC HH   HH   MM   MM   CCCCCCCCCC MM   MM   BBBB88888 LLLLLLLLLL IIIIII   NN   NN

```



```

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

```



```
0001 0 %TITLE 'EDT$CHMCMBLIN - combine lines'
0002 0 MODULE EDT$CHMCMBLIN (
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 combines the current line with the one
0037 1 immediately above it.
0038 1
0039 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0040 1
0041 1 AUTHOR: Bob Kushlis, CREATION DATE: Unknown
0042 1
0043 1 MODIFIED BY:
0044 1
0045 1 1-001 - Original. DJS 04-Feb-1981. This module was created by
0046 1 extracting the routine EDT$$COMB_LN from module CHANGE.BLI.
0047 1 1-002 - Regularize headers. JBS 25-Feb-1981
0048 1 1-003 - Fix module name. JBS 02-Mar-1981
0049 1 1-004 - Use the ASSERT macro. JBS 01-Jun-1981
0050 1 1-005 - EDT$$SEL_RNGPOS can have values -1, 0 and 1. JBS 02-Jun-1981
0051 1 1-006 - Use new message codes. JBS 04-Aug-1981
0052 1 1-007 - Fix bug where you cannot combine lines because length >255.
0053 1 STS 23-Oct-1981
0054 1 1-008 - New screen update logic. JBS 13-Sep-1982
0055 1 1-009 - Make call to edt$$tst_eob in line. STS 22-Sep-1982
0056 1 1-010 - Remove EDT$$G_LN_NO for new screen update logic. JBS 29-Sep-1982
0057 1 1-011 - Move call to EDT$$MRK_LNCHG. JBS 27-Oct-1982
```

EDT\$CHMCMBLIN
V04-000

EDT\$CHMCMBLIN - combine lines

F 14

15-Sep-1984 23:48:34
14-Sep-1984 12:22:24

VAX-11 BLISS-32 V4.0-742
[EDT.SRC]CHMCMBLIN.BLI;1

Page 2
(1)

```
: 58      0058 1 1-012 - Change order of operations to improve screen updating. JBS 01-Dec-1982
: 59      0059 1 1-013 - Change call to EDT$SMRK_LNCHG. JBS 27-Dec-1982
: 60      0060 1 1-014 - Add special cases for empty lines, to improve screen updating. JBS 28-Dec-1982
: 61      0061 1 1-015 - Add parameter to suppress special cases. JBS 28-Dec-1982
: 62      0062 1 1-016 - Don't delete the current line if it is of zero length. JBS 29-Dec-1982
: 63      0063 1 1-017 - Improve the appearance of the listing. JBS 13-Jun-1983
: 64      0064 1 --
: 65      0065 1
```


EDT\$CHMCMBLIN
V04-000

EDT\$CHMCMBLIN - combine lines
Declarations

G 14
15-Sep-1984 23:48:34
14-Sep-1984 12:22:24

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]CHMCMBLIN.BLI;1

Page 3
(2)

```
: 67      0066 1 %SBTTL 'Declarations'
: 68      0067 1
: 69      0068 1 | TABLE OF CONTENTS:
: 70      0069 1 |
: 71      0070 1
: 72      0071 1 REQUIRE 'EDT$SRC:TRAROUNAM';
: 73      0510 1
: 74      0511 1 FORWARD ROUTINE
: 75      0512 1     EDT$SCOMB_LN : NOVALUE;
: 76      0513 1
: 77      0514 1 |
: 78      0515 1 | INCLUDE FILES:
: 79      0516 1 |
: 80      0517 1
: 81      0518 1 REQUIRE 'EDT$SRC:EDTREQ';
: 82      0653 1
: 83      0654 1 |
: 84      0655 1 | MACROS:
: 85      0656 1 |
: 86      0657 1 |     NONE
: 87      0658 1 |
: 88      0659 1 | EQUATED SYMBOLS:
: 89      0660 1 |
: 90      0661 1 |     NONE
: 91      0662 1 |
: 92      0663 1 | OWN STORAGE:
: 93      0664 1 |
: 94      0665 1 |     NONE
: 95      0666 1 |
: 96      0667 1 | EXTERNAL REFERENCES:
: 97      0668 1 |
: 98      0669 1 |     In the routine
```

! Combine the current line with the one immediately above it

```
100 0670 1 %SBTTL 'EDT$$COMB_LN - combine lines'
101 0671 1
102 0672 1 GLOBAL ROUTINE EDT$$COMB_LN (
103 0673 1     LEN_OPT
104 0674 1     ) : NOVALUE =
105 0675 1
106 0676 1 ++
107 0677 1 FUNCTIONAL DESCRIPTION:
108 0678 1
109 0679 1     This routine combines the current line with the one immediately
110 0680 1     above it.
111 0681 1
112 0682 1 FORMAL PARAMETERS:
113 0683 1
114 0684 1     LEN_OPT
115 0685 1
116 0686 1 IMPLICIT INPUTS:
117 0687 1
118 0688 1     EDT$$L_LN00
119 0689 1     EDT$$T_LN_BUF
120 0690 1     EDT$$A_LN_END
121 0691 1     EDT$$G_LN_LEN
122 0692 1     EDT$$A_WK_LN
123 0693 1
124 0694 1 IMPLICIT OUTPUTS:
125 0695 1
126 0696 1     EDT$$A_LN_PTR
127 0697 1     EDT$$A_SEC_POS
128 0698 1
129 0699 1 ROUTINE VALUE:
130 0700 1
131 0701 1     NONE
132 0702 1
133 0703 1 SIDE EFFECTS:
134 0704 1
135 0705 1     NONE
136 0706 1
137 0707 1 --
138 0708 1
139 0709 2 BEGIN
140 0710 2
141 0711 2 EXTERNAL ROUTINE
142 0712 2     EDT$$MSG_BELL : NOVALUE,
143 0713 2     EDT$$MRK_LNCHG : NOVALUE,
144 0714 2     EDT$$UPD_LNLEN : NOVALUE,
145 0715 2     EDT$$DEL_CURLN,
146 0716 2     EDT$$RD_PRLN,
147 0717 2     EDT$$RD_NXTLN,
148 0718 2     EDT$$RPC_CHGDLN : NOVALUE;
149 0719 2
150 0720 2 EXTERNAL
151 0721 2     EDT$$T_LN_BUF,
152 0722 2     EDT$$A_LN_PTR,
153 0723 2     EDT$$A_LN_END,
154 0724 2     EDT$$G_LN_LEN,
155 0725 2     EDT$$Z_EOB_LN,
156 0726 2     EDT$$A_WK_LN : REF LIN_BLOCK;
```

! Combine lines
! 1 = optimize based on line lengths

! Output a message to the terminal with a warning bell
! Record line updates
! Update the length of the current line
! Delete a line from buffer
! Move backward a line
! Move forward a line
! Replace a changed line

! Current line buffer
! Current character pointer
! End of current line pointer
! Length of current line
! Current line pointer


```
157 0727 2
158 0728 2
159 0729 2 + Declare the message codes to be used.
160 0730 2 -
161 0731 2 MESSAGES ((LINEXC255));
162 0732 2
163 0733 2 LOCAL
164 0734 2 EOB,
165 0735 2 LEN;
166 0736 2
167 0737 2 +
168 0738 2 Remember if we are at the end of the buffer.
169 0739 2 -
170 0740 2 EOB = (.EDT$$A_WK_LN EQLA EDT$$Z_EOB_LN);
171 0741 2 +
172 0742 2 Move back a line, give up if it fails.
173 0743 2 -
174 0744 2
175 0745 2 IF ( NOT EDT$$RD_PRVLN () ) THEN RETURN;
176 0746 2
177 0747 2 +
178 0748 2 Get length of add on line.
179 0749 2 -
180 0750 2 LEN = .EDT$$A_WK_LN [LIN_LENGTH];
181 0751 2 +
182 0752 2 Make sure the two do not exceed 255 characters.
183 0753 2 -
184 0754 2
185 0755 2 IF ((.EDT$$G_LN_LEN + .LEN) GTR 255)
186 0756 2 THEN
187 0757 2 BEGIN
188 0758 2 EDT$$MSG_BELL (EDT$ _LINEXC255);
189 0759 2 EDT$$RD_NXTLN ();
190 0760 2 RETURN;
191 0761 2 END;
192 0762 2
193 0763 2 +
194 0764 2 If the add-on line is empty, just delete it.
195 0765 2 -
196 0766 2
197 0767 2 IF ((.LEN EQL 0) AND .LEN_OPT)
198 0768 2 THEN
199 0769 2 BEGIN
200 0770 2 EDT$$DEL_CURLN ();
201 0771 2 RETURN;
202 0772 2 END;
203 0773 2
204 0774 2 +
205 0775 2 The add-on line is not empty, or length optimization is not permitted. Move the current line over.
206 0776 2 -
207 0777 2 EDT$$A_LN_PTR = CH$PTR (EDT$$T_LN_BUF, .LEN);
208 0778 2 EDT$$CPY_MEM (.EDT$$G_LN_LEN, CH$PTR (EDT$$T_LN_BUF), .EDT$$A_LN_PTR);
209 0779 2 +
210 0780 2 Move in the text from the previous line.
211 0781 2 -
212 0782 2 EDT$$CPY_MEM (.LEN, EDT$$A_WK_LN [LIN_TEXT], CH$PTR (EDT$$T_LN_BUF));
213 0783 2 EDT$$MRK_LNCHG (SCR_EDIT_MODIFY, .LEN);
```

EDT\$CHMCMBLIN
V04-000

EDT\$CHMCMBLIN - combine lines
EDT\$\$COMB_LN - combine lines

J 14
15-Sep-1984 23:48:34
14-Sep-1984 12:22:24

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]CHMCMBLIN.BLI;1

Page 6
(3)

```

214 0784 2 !+
215 0785 2 !- Update the length field.
216 0786 2 !-
217 0787 2 EDT$$UPD_LNLEN (.LEN);
218 0788 2 EDT$$RPL_CHGDLN ();
219 0789 2 !+
220 0790 2 !- Delete the first line unless it is just before EOB.
221 0791 2 !-
222 0792 2
223 0793 2 IF (( NOT .EOB) OR (.EDT$$G_LN_LEN EQL 0))
224 0794 2 THEN
225 0795 2 BEGIN
226 0796 2
227 0797 2 IF ( NOT .EOB) THEN EDT$$RD_NXTLN ();
228 0798 2
229 0799 2 EDT$$DEL_CURLN ();
230 0800 2
231 0801 2 IF ( NOT .EOB) THEN EDT$$RD_PRVLN ();
232 0802 2
233 0803 2 END;
234 0804 2
235 0805 1 END;
```

! of routine EDT\$\$COMB_LN

.TITLE EDT\$CHMCMBLIN EDT\$CHMCMBLIN - combine lines
.IDENT \V04-000\

.EXTRN EDT\$\$MSG_BELL, EDT\$\$MRK_LNCHG
.EXTRN EDT\$\$UPD_LNLEN, EDT\$\$DEL_CURLN
.EXTRN EDT\$\$RD_PRVLN, EDT\$\$RD_NXTLN
.EXTRN EDT\$\$RPL_CHGDLN
.EXTRN EDT\$\$T_LN_BUF, EDT\$\$A_LN_PTR
.EXTRN EDT\$\$A_LN_END, EDT\$\$G_LN_LEN
.EXTRN EDT\$\$Z_EOB_LN, EDT\$\$A_WK_LN
.EXTRN EDT\$_LINEXC255

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

.ENTRY EDT\$\$COMB_LN, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 0672
R10,R11
MOVAB EDT\$\$RD_PRVLN, R11
MOVAB EDT\$\$T_LN_BUF, R10
MOVAB EDT\$\$G_LN_LEN, R9
MOVAB EDT\$\$A_WK_LN, R8
MOVAB EDT\$\$Z_EOB_LN, R1 0740
CLRL R0
CMPL EDT\$\$A_WK_LN, R1
BNEQ 1\$
INCL R0
MOVL R0, EOB
CALLS #0, EDT\$\$RD_PRVLN 0745
BLBS R0, 2\$
RET
MOVL EDT\$\$A_WK_LN, R0 0750
MOVZBL (R0), LEN
ADDL3 LEN, EDT\$\$G_LN_LEN, R0 0755
CMPL R0, #255

OFFC 00000

```

5B 00000000G 00 9E 00002
5A 00000000G 00 9E 00009
59 00000000G 00 9E 00010
58 00000000G 00 9E 00017
51 00000000G 00 9E 0001E
50 D4 00025
51 68 D1 00027
02 12 0002A
50 D6 0002C
57 50 D0 0002E 1$:
6B 00 FB 00031
01 50 E8 00034
04 00037
50 68 D0 00038 2$:
56 60 9A 0003B
69 56 C1 0003E
50 8F 50 D1 00042
50 000000FF
```


EDT\$CHMCMBLIN
V04-000

EDT\$CHMCMBLIN - combine lines
EDT\$\$COMB_LN - combine lines

K 14
15-Sep-1984 23:48:34
14-Sep-1984 12:22:24

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]CHMCMBLIN.BLI;1

Page 7
(3)

			15	15	00049	BLEQ	3\$		
			8F	DD	0004B	PUSHL	#EDT\$ LINEXC255		0758
	00000000G	00	01	FB	00051	CALLS	#1, EDT\$\$MSG_BELL		
	00000000G	00	00	FB	00058	CALLS	#0, EDT\$\$RD_NXTLN		0759
				04	0005F	RET			0757
			56	D5	00060	TSTL	LEN		0767
			0C	12	00062	BNEQ	4\$		
		08		AC	E9 00064	BLBC	LEN_OPT, 4\$		
	00000000G	00		00	FB 00068	CALLS	#0, EDT\$\$DEL_CURLN		0770
				04	0006F	RET			0769
00000000G	00		56	5A	C1 00070	ADDL3	R10, LEN, EDT\$\$A_LN_PTR		0777
			50	00	D0 00078	MOVL	EDT\$\$A_LN_PTR, R0		0778
60			6A	69	28 0007F	MOVC3	EDT\$\$G_LN_LEN, EDT\$\$T_LN_BUF, (R0)		
			50	68	D0 00083	MOVL	EDT\$\$A_WK_LN, R0		0782
6A	07	A0	56	28	00086	MOVC3	LEN, 7(R0), EDT\$\$T_LN_BUF		
			56	DD	0008B	PUSHL	LEN		0783
			01	DD	0008D	PUSHL	#1		
	00000000G	00	02	FB	0008F	CALLS	#2, EDT\$\$MRK_LNCHG		0787
			56	DD	00096	PUSHL	LEN		
	00000000G	00	01	FB	00098	CALLS	#1, EDT\$\$UPD_LNLEN		0788
	00000000G	00	00	FB	0009F	CALLS	#0, EDT\$\$RPL_CHGDLN		0793
		07	57	E9	000A6	BLBC	EOB, 5\$		
			69	D5	000A9	TSTL	EDT\$\$G_LN_LEN		
			17	12	000AB	BNEQ	7\$		
		07	57	E8	000AD	BLBS	EOB, 6\$		0797
	00000000G	00	00	FB	000B0	CALLS	#0, EDT\$\$RD_NXTLN		
	00000000G	00	00	FB	000B7	CALLS	#0, EDT\$\$DEL_CURLN		0799
		03	57	E8	000BE	BLBS	EOB, 7\$		0801
		6B	00	FB	000C1	CALLS	#0, EDT\$\$RD_PRVLN		
				04	000C4	RET			0805

; Routine Size: 197 bytes, Routine Base: _EDT\$CODE + 0000

; 236 0806 1
; 237 0807 1 !<BLF/PAGE>

EDT\$CHMCMBLIN
V04-000

EDT\$CHMCMBLIN - combine lines
EDT\$\$COMB_LN - combine lines

L 14
15-Sep-1984 23:48:34
14-Sep-1984 12:22:24

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]CHMCMBLIN.BLI;1

Page 8
(4)

: 239 0808 1 END
: 240 0809 1
: 241 0810 0 ELUDOM

! of module EDT\$CHMCMBLIN

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	197	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	10	2	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\$:CHMCMBLIN/OBJ=OBJ\$:CHMCMBLIN MSRC\$:CHMCMBLIN.BLI/UPDATE=(ENH\$:C
HMCMBLIN)

: Size: 197 code + 0 data bytes
: Run Time: 00:13.5
: Elapsed Time: 00:15.7
: Lines/CPU Min: 3592
: Lexemes/CPU-Min: 10833
: Memory Used: 87 pages
: Compilation Complete

0130 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY