


```

      CCCCCCCC  HH      HH  MM      MM  CCCCCCCC  MM      MM  BBBB8888  LL      IIIIII  NN      NN
      CCCCCCCC  HH      HH  MM      MM  CCCCCCCC  MM      MM  BBBB8888  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  MMMM  BB      BB  LL      II      NN      NN
CC      HH      HH  MM      MM  CC      MM      MM  BB      BB  LL      II      NNNN   NN
CC      HH      HH  MM      MM  CC      MM      MM  BB      BB  LL      II      NNNN   NN
CC      HHHHHHHHHH  MM      MM  CC      MM      MM  BBBB8888  LL      II      NN      NN
CC      HHHHHHHHHH  MM      MM  CC      MM      MM  BBBB8888  LL      II      NN      NN
CC      HH      HH  MM      MM  CC      MM      MM  BB      BB  LL      II      NN      NN
CC      HH      HH  MM      MM  CC      MM      MM  BB      BB  LL      II      NN      NN
CC      HH      HH  MM      MM  CC      MM      MM  BB      BB  LL      II      NN      NN
CC      HH      HH  MM      MM  CC      MM      MM  BB      BB  LL      II      NN      NN
      CCCCCCCC  HH      HH  MM      MM  CCCCCCCC  MM      MM  BBBB8888  LLLLLLLLLL  IIIIII  NN      NN
      CCCCCCCC  HH      HH  MM      MM  CCCCCCCC  MM      MM  BBBB8888  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
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS

```

```

...
...
...
...

```

.....

```

1 0001 0 %TITLE 'EDT$CHMCMBLIN - combine lines'
2 0002 0 MODULE EDT$CHMCMBLIN ( ! Combine lines
3 0003 0 IDENT = 'V04-000' ! File: CHMCMBLIN.BLI Edit: JBS1017
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 combines the current line with the one
37 0037 1 immediately above it.
38 0038 1
39 0039 1 ENVIRONMENT: Runs at any access mode - AST reentrant
40 0040 1
41 0041 1 AUTHOR: Bob Kushlis, CREATION DATE: Unknown
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1
45 0045 1 1-001 - Original. DJS 04-Feb-1981. This module was created by
46 0046 1 extracting the routine EDT$$COMB_LN from module CHANGE.BLI.
47 0047 1 1-002 - Regularize headers. JBS 25-Feb-1981
48 0048 1 1-003 - Fix module name. JBS 02-Mar-1981
49 0049 1 1-004 - Use the ASSERT macro. JBS 01-Jun-1981
50 0050 1 1-005 - EDT$$SEL_RNGPOS can have values -1, 0 and 1. JBS 02-Jun-1981
51 0051 1 1-006 - Use new message codes. JBS 04-Aug-1981
52 0052 1 1-007 - Fix bug where you cannot combine lines because length >255.
53 0053 1 STS 23-Oct-1981
54 0054 1 1-008 - New screen update logic. JBS 13-Sep-1982
55 0055 1 1-009 - Make call to edt$$stst_eob in line. STS 22-Sep-1982
56 0056 1 1-010 - Remove EDT$$G_LN_NO for new screen update logic. JBS 29-Sep-1982
57 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 VAX-11 BLISS-32 V4.0-742
14-Sep-1984 12:22:24 [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
```

ED
VC

..

.....

.....

.....

.....

```
.. 67 0066 1 %SBTTL 'Declarations'  
.. 68 0067 1 |  
.. 69 0068 1 | TABLE OF CONTENTS:  
.. 0069 1 |  
.. 71 0070 1 |  
.. 72 0071 1 REQUIRE 'EDT$SRC:TRAROUNAM';  
.. 73 0510 1 |  
.. 74 0511 1 FORWARD ROUTINE  
.. 75 0512 1 EDT$$COMB_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 (           ; Combine Lines
103 0673 1     LEN_OPT                               ; 1 = optimize based on line lengths
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                               1 = do optimizations based on line lengths
115 0685 1
116 0686 1  IMPLICIT INPUTS:
117 0687 1
118 0688 1     EDT$$L_LNOO
119 0689 1     EDT$$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,           ! Output a message to the terminal with a warning bell
143 0713 2     EDT$$MRK_LNCHG : NOVALUE,         ! Record line updates
144 0714 2     EDT$$UPD_LNLEN : NOVALUE,         ! Update the length of the current line
145 0715 2     EDT$$DEL_CURLN,                   ! Delete a line from buffer
146 0716 2     EDT$$RD_PRLN,                       ! Move backward a line
147 0717 2     EDT$$RD_NXTLN,                       ! Move forward a line
148 0718 2     EDT$$RPC_CHGDLN : NOVALUE;        ! Replace a changed line
149 0719 2
150 0720 2  EXTERNAL
151 0721 2     EDT$$T_LN_BUF,                         ! Current line buffer
152 0722 2     EDT$$A_LN_PTR,                         ! Current character pointer
153 0723 2     EDT$$A_LN_END,                         ! End of current line pointer
154 0724 2     EDT$$G_LN_LEN,                         ! Length of current line
155 0725 2     EDT$$Z_EOB_LN,
156 0726 2     EDT$$A_WK_LN : REF LIN_BLOCK;        ! Current line pointer

```

```

157 0727
158 0728
159 0729 + Decla e the message codes to be used.
160 0730 -
161 0731     MESSAGES ((LINEXC255));
162 0732
163 0733     LOCAL
164 0734     EOB,
165 0735     LEN;
166 0736
167 0737 +
168 0738 + Remember if we are at the end of the buffer.
169 0739 -
170 0740     EOB = (.EDT$$A_WK_LN EQLA EDT$$Z_EOB_LN);
171 0741 +
172 0742 + Move back a line, give up if it fails.
173 0743 -
174 0744
175 0745     IF ( NOT EDT$$RD_PRVLN () ) THEN RETURN;
176 0746
177 0747 +
178 0748 + Get length of add on line.
179 0749 -
180 0750     LEN = .EDT$$A_WK_LN [LIN_LENGTH];
181 0751 +
182 0752 + Make sure the two do not exceed 255 characters.
183 0753 -
184 0754
185 0755     IF ((.EDT$$G_LN_LEN + .LEN) GTR 255)
186 0756     THEN
187 0757     BEGIN
188 0758     EDT$$MSG_BELL (EDT$L_LINEXC255);
189 0759     EDT$$RD_NXTLN ();
190 0760     RETURN;
191 0761     END;
192 0762
193 0763 +
194 0764 + If the add-on line is empty, just delete it.
195 0765 -
196 0766
197 0767     IF ((.LEN EQL 0) AND .LEN_OPT)
198 0768     THEN
199 0769     BEGIN
200 0770     EDT$$DEL_CURLN ();
201 0771     RETURN;
202 0772     END;
203 0773
204 0774 +
205 0775 + The add-on l ne is not empty, or length optimization is not permitted. Move the current line over.
206 0776 -
207 0777     EDT$$A_LN_PTR = CH$PTR (EDT$$T_LN_BUF, .LEN);
208 0778     EDT$$CPY_MEM (.EDT$$G_LN_LEN, CH$PTR (EDT$$T_LN_BUF), .EDT$$A_LN_PTR);
209 0779 +
210 0780 + Move in the text from the previous line.
211 0781 -
212 0782     EDT$$CPY_MEM (.LEN, EDT$$A_WK_LN [LIN_TEXT], CH$PTR (EDT$$T_LN_BUF));
213 0783     EDT$$MRK_LNCHG (SCR_EDIT_MODIFY, .LEN);

```

```

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$$G_LN_LEN EQL 0))
224 0794 2  THEN
225 0795 2  BEGIN
226 0796 2  IF ( NOT .EOB) THEN EDT$$RD_NXTLN ();
227 0797 2  EDT$$DEL_CURLN ();
228 0798 2  IF ( NOT .EOB) THEN EDT$$RD_PRVLN ();
229 0799 2  END;
230 0800 2  !-
231 0801 2  !-
232 0802 2  !-
233 0803 2  !-
234 0804 2  !-
235 0805 2  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\$\$DEC_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

OFFC 00000

.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
CML 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
CML R0, #255

```

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 00000000G 50 D4 00025
51 68 D1 00027
02 12 0002A
50 D6 0002C
57 50 D0 0002E 1$:
68 00 FB 00031
01 50 E8 00034
04 00037
50 68 D0 00038 2$:
56 60 9A 0003B
69 56 C1 0003E
50 00000FF 8F 50 D1 00042

```


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\$		
		00000000G	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	3\$: TSTL	LEN		0767
			0C	12	00062	BNEQ	4\$		
		08	04	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	4\$: ADDL3	R10, LEN, EDT\$\$A_LN_PTR		0777
			50	00	D0 00078	MOVL	EDT\$\$A_LN_PTR, R0		0778
	60		6A	69	28 0007F	MOVCL	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	MOVCL	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		
			56	DD	00096	PUSHL	LEN		0787
	00000000G	00	01	FB	00098	CALLS	#1, EDT\$\$UPD_LNLEN		
	00000000G	00	00	FB	0009F	CALLS	#0, EDT\$\$RPL_CHGDLN		0788
		07	57	E9	000A6	BLBC	EOB, 5\$		0793
			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	5\$: CALLS	#0, EDT\$\$RD_NXTLN		
	00000000G	00	00	FB	000B7	6\$: CALLS	#0, EDT\$\$DEC_CURLN		0799
		03	57	E8	000BE	BLBS	EOB, 7\$		0801
		6B	00	FB	000C1	CALLS	#0, EDT\$\$RD_PVVLN		
			04	000C4	7\$: RET				0805

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

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

EDT\$CHMCMBLIN EDT\$CHMCMBLIN - combine lines
V04-000 EDT\$\$COMB_LN - combine lines

L 14
15-Sep-1984 23:48:34 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:22:24 [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=LISS:CHMCMBLIN/OBJ=OBJS:CHMCMBLIN MSRCS:CHMCMBLIN.BLI/UPDATE=(ENHS: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

