



```

CCCCCCCC HH   HH MM   MM UU   UU NN   NN DDDDDDD EEEEEEEEE LL
CCCCCCCC HH   HH MM   MM UU   UU NN   NN DDDDDDD EEEEEEEEE LL
CC        HH   HH MMMM MMMM UU   UU NN   NN DD   DD EE   LL
CC        HH   HH MMMM MMMM UU   UU NN   NN DD   DD EE   LL
CC        HH   HH MM   MM UU   UU NN   NN DD   DD EE   LL
CC        HH   HH MM   MM UU   UU NN   NN DD   DD EE   LL
CC        HHHHHHHHHH MM   MM UU   UU NN   NN DD   DD EEEEEEE LL
CC        HHHHHHHHHH MM   MM UU   UU NN   NN DD   DD EEEEEEE LL
CC        HH   HH MM   MM UU   UU NN   NN DD   DD EE   LL
CC        HH   HH MM   MM UU   UU NN   NN DD   DD EE   LL
CC        HH   HH MM   MM UU   UU NN   NN DD   DD EE   LL
CC        HH   HH MM   MM UU   UU NN   NN DD   DD EE   LL
CCCCCCCC HH   HH MM   MM UUUUUUUUU NN   NN DDDDDDD EEEEEEEEE LLLLLLLLLL
CCCCCCCC HH   HH MM   MM UUUUUUUUU NN   NN DDDDDDD EEEEEEEEE LLLLLLLLLL

```

```

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
LLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLL IIIIII SSSSSSSS

```

```

1 0001 0 %TITLE 'EDTSCHMUNDEL - undelete'
2 0002 0 MODULE EDTSCHMUNDEL (                               ! Undelete
3 0003 0                                     IDENT = 'V04-000'           ! File: CHMUNDEL.BLI Edit: JBS1004
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      This module performs the undeletion of text associated
37 0037 1      with the change mode commands UNDC, UNDW, and UNDL.
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 UNDELETE from the module CHANGE.BLI.
47 0047 1 1-002 - Regularize headers.  JBS 04-Mar-1981
48 0048 1 1-003 - Replace call to edt$$tst eob.  STS 22-Sep-1982
49 0049 1 1-004 - Don't turn an undelete of an empty line into a noop at EOB.  JBS 01-Dec-1982
50 0050 1
51 0051 1

```

```
53 0052 1 %SBTTL 'Declarations'  
54 0053 1  
55 0054 1 : TABLE OF CONTENTS:  
56 0055 1 :  
57 0056 1 :  
58 0057 1 REQUIRE 'EDT$SRC:TRAROUNAM';  
59 0496 1  
60 0497 1 FORWARD ROUTINE  
61 0498 1 EDT$SUNDL;  
62 0499 1  
63 0500 1 :  
64 0501 1 : INCLUDE FILES:  
65 0502 1 :  
66 0503 1 :  
67 0504 1 REQUIRE 'EDT$SRC:EDTREQ';  
68 0639 1  
69 0640 1 :  
70 0641 1 : MACROS:  
71 0642 1 :  
72 0643 1 : NONE  
73 0644 1 :  
74 0645 1 : EQUATED SYMBOLS:  
75 0646 1 :  
76 0647 1 : NONE  
77 0648 1 :  
78 0649 1 : OWN STORAGE:  
79 0650 1 :  
80 0651 1 : NONE  
81 0652 1 :  
82 0653 1 : EXTERNAL REFERENCES:  
83 0654 1 :  
84 0655 1 : In the routine
```

! Insert the contents of an undelete buffer

```

86 0656 1 %SBTTL 'EDTSSUNDL - undelete'
87 0657 1
88 0658 1 GLOBAL ROUTINE EDTSSUNDL (      ! Undelete
89 0659 1     BUF,                        ! Address of the appropriate undelete buffer
90 0660 1     LEN,                        ! Length of that buffer
91 0661 1     ) =
92 0662 1
93 0663 1 ++
94 0664 1 FUNCTIONAL DESCRIPTION:
95 0665 1
96 0666 1     Insert the contents of an undelete buffer and move to whichever end.
97 0667 1
98 0668 1 FORMAL PARAMETERS:
99 0669 1
100 0670 1     BUF                the address of the undelete buffer. Its first character is
101 0671 1                       the direction indicator.
102 0672 1
103 0673 1     LEN                the length of the buffer.
104 0674 1
105 0675 1 IMPLICIT INPUTS:
106 0676 1
107 0677 1     NONE
108 0678 1
109 0679 1 IMPLICIT OUTPUTS:
110 0680 1
111 0681 1     NONE
112 0682 1
113 0683 1 ROUTINE VALUE:
114 0684 1
115 0685 1     1 is returned if successful, 0 otherwise.
116 0686 1
117 0687 1 SIDE EFFECTS:
118 0688 1
119 0689 1     NONE
120 0690 1
121 0691 1 --
122 0692 1
123 0693 2     BEGIN
124 0694 2
125 0695 2     EXTERNAL ROUTINE
126 0696 2         EDT$$INS_CHS,           ! Insert a string of characters which may include carriage returns
127 0697 2         EDT$$CS_LEFT;         ! Move left a character
128 0698 2
129 0699 2     EXTERNAL
130 0700 2         EDT$$A_WK_LN : REF LIN_BLOCK,
131 0701 2         EDT$$Z_EOB_LN;
132 0702 2
133 0703 2     LOCAL
134 0704 2         DIR,
135 0705 2         RLEN,
136 0706 2         BUF_POINT;
137 0707 2
138 0708 2     RLEN = .LEN;
139 0709 2 ++
140 0710 2     Check for special case of entering an unnecessary carriage return
141 0711 2     at the end of the buffer.
142 0712 2 --

```

```

143 0713 2
144 0714 2 IF ((.EDTSSA_WK_LN EQLA EDTSSZ_EOB_LN) AND !
145 0715 2 (.RLEN GTR T) AND !
146 0716 2 (CHSRCHAR (CHSPTR (.BUF, .RLEN)) EQL ASC_K_(R)) !
147 0717 2 THEN
148 0718 2 RLEN = .RLEN - 1;
149 0719 2
150 0720 2 BUF_POINT = CHSPTR (.BUF);
151 0721 2
152 0722 2 Get the direction indicator.
153 0723 2
154 0724 2 DIR = CHSRCHAR_A (BUF_POINT);
155 0725 2
156 0726 2 IF (EDTSSINS_CHS (.BUF_POINT, .RLEN) EQL 0) THEN RETURN (0);
157 0727 2
158 0728 2
159 0729 2 If the delete was a forward one, position to the beginning of the
160 0730 2 string we just inserted.
161 0731 2
162 0732 2
163 0733 2 IF (.DIR NEQ DIR_BACKWARD)
164 0734 2 THEN
165 0735 2
166 0736 2     DECR I FROM .RLEN - 1 TO 0 DO
167 0737 2         EDTSSCS_LEFT ();
168 0738 2
169 0739 2 RETURN (1);
170 0740 2 END;

```

! of routine EDT\$UNDEL

```

.TITLE EDTSCHMUNDEL EDTSCHMUNDEL - undelete
.IDENT \V04-000\

.EXTRN EDTSSINS_CHS, EDTSSCS_LEFT
.EXTRN EDTSSA_WK_LN, EDTSSZ_EOB_LN

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

```

			000C	00000	
52	08	AC	D0	00002	
50	00000000G	00	9E	00006	
50	00000000G	00	D1	0000D	
			0E	12	00014
01		52	D1	00016	
			09	15	00019
0D	04	BC42	91	0001B	
			02	12	00020
			52	D7	00022
50	04	AC	D0	00024	1\$:
53		80	9A	00028	
			05	BB	0002B
00000000G	00	02	FB	0002D	
			50	D5	00034
			14	13	00036
			53	D5	00038
			0C	13	0003A
			07	11	0003C

.ENTRY	EDTSSUNDL, Save R2,R3	0658
MOVL	LEN, RLEN	0708
MOVAB	EDTSSZ_EOB_LN, R0	0714
CML	EDTSSA_WK_LN, R0	
BNEQ	1\$	
CML	RLEN, #1	0715
BLEQ	1\$	
CMPB	@BUF[RLEN], #13	0716
BNEQ	1\$	
DECL	RLEN	0718
MOVL	BUF, BUF_POINT	0720
MOVZBL	(BUF_POINT)+, DIR	0724
PUSHR	#*M<R0,R2>	0726
CALLS	#2, EDTSSINS_CHS	
TSTL	R0	
BEQL	5\$	
TSTL	DIR	0733
BEQL	4\$	
BRB	3\$	0736

EDT\$CHMUNDEL  
V04-000

EDT\$CHMUNDEL - undelete  
EDT\$\$UNDL - undelete

I 14  
16-Sep-1984 00:13:54  
14-Sep-1984 12:22:49

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[EDT.SRC]CHMUNDEL.BLI;1 Page 5 (3)

00000000G	00	00	FB 0003E	2\$:	CALLS	#0,	EDT\$\$CS_LEFT	:	0737
	F6	52	F4 00045	3\$:	SOBGEQ	I,	2\$	:	
	50	01	D0 00048	4\$:	MOVL	#1,	R0	:	0739
			04 0004B		RET			:	
		50	D4 0004C	5\$:	CLRL	R0		:	0740
			04 0004E		RET			:	

: Routine Size: 79 bytes, Routine Base: \_EDT\$CODE + 0000

: 171 0741 1  
: 172 0742 1 !<BLF/PAGE>

EDT  
V04

EDT\$CHMUNDEL  
V04-000

EDT\$CHMUNDEL - undelete  
EDT\$\$UNDL - undelete

J 14  
16-Sep-1984 00:13:54  
14-Sep-1984 12:22:49

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[EDT.SRC]CHMUNDEL.BLI;1 (4)

EDT  
V04

: 174 0743 1 END  
: 175 0744 1  
: 176 0745 0 ELUDOM

: of module EDT\$CHMUNDEL

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	79	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\$:CHMUNDEL/OBJ=OBJ\$:CHMUNDEL MSRCS\$:CHMUNDEL.BLI/UPDATE=(ENHS:CHMUNDEL)

: Size: 79 code + 0 data bytes  
: Run Time: 00:10.7  
: Elapsed Time: 00:13.6  
: Lines/CPU Min: 4181  
: Lexemes/CPU-Min: 11478  
: Memory Used: 70 pages  
: Compilation Complete



CHMMRKCHG LIS	CHMPARSEN LIS	CHMSELPOS LIS	CHMSPLLIN LIS	DATA LIS
CHMUNDEL LIS	COMMAND LIS	CHMONSTR LIS	CHMSAVPOS LIS	CHMSCHSTR LIS
CHMREPOS LIS	CHMMESS LIS	CHMPASTE LIS	CHMSENDEL LIS	CHMTAD LIS
CHMSAVTXT LIS	CHMNEWLEN LIS	CHMPARSE LIS	CHMSAVLIN LIS	CLRKEY LIS
CHMSUBS LIS				