


```

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   NNNN  NN   DD       DD   EE         LL
CC        HH   HH   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

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....
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```

LL        IIIIII  SSSSSSS
LL        IIIIII  SSSSSSS
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  SSSSSSS
LLLLLLLLL IIIIII  SSSSSSS

```

```

1 0001 0 %TITLE 'EDTSCHMUNDEL - undelete'
2 0002 0 MODULE EDTSCHMUNDEL (
3 0003 0 IDENT = 'V04-000'
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$$UNDL;
: 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 'EDT$$SUNDL - undelete'
: 87      0657 1
: 88      0658 1 GLOBAL ROUTINE EDT$$SUNDL (
: 89      0659 1     BUF,
: 90      0660 1     LEN
: 91      0661 1     ) =
: 92      0662 1
: 93      0663 1
: 94      0664 1 ++
: 95      0665 1 FUNCTIONAL DESCRIPTION:
: 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     NONE
: 107     0677 1
: 108     0678 1 IMPLICIT OUTPUTS:
: 109     0679 1     NONE
: 110     0680 1
: 111     0681 1 ROUTINE VALUE:
: 112     0682 1     1 is returned if successful, 0 otherwise.
: 113     0683 1
: 114     0684 1 SIDE EFFECTS:
: 115     0685 1     NONE
: 116     0686 1
: 117     0687 1
: 118     0688 1
: 119     0689 1
: 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$$INS_CHS,
: 127     0697 2     EDT$$CS_LEFT;
: 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 ++
: 141     0711 2 Check for special case of entering an unnecessary carriage return
: 142     0712 2 at the end of the buffer.
:

```

```

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

```

! of routine EDT\$UNDEL

```

.TITLE EDT$SCHMUNDEL EDT$SCHMUNDEL - 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	.ENTRY EDTSSUNDL, Save R2,R3	: 0658
52	08	AC D0 00002	MOVL LEN, RLEN	: 0708
50	00000000G	00 9E 00006	MOVAB EDTSSZ_EOB_LN, R0	: 0714
50	00000000G	00 D1 0000D	CML EDTSSA_WK_LN, R0	
		0E 12 00014	BNEQ 1\$	
01		52 D1 00016	CML RLEN, #1	: 0715
		09 15 00019	BLEQ 1\$	
0D	04 BC42	91 0001B	CMPB @BUF[RLEN], #13	: 0716
		02 12 00020	BNEQ 1\$	
		52 D7 00022	DECL RLEN	: 0718
50	04	AC D0 00024 1\$:	MOVL BUF, BUF_POINT	: 0720
53		80 9A 00028	MOVZBL (BUF_POINT)+, DIR	: 0724
		05 BB 0002B	PUSHR #*M<R0,R2>	: 0726
00000000G	00	02 FB 0002D	CALLS #2, EDTSSINS_CHS	
		50 D5 00034	TSTL R0	
		14 13 00036	BEQL 5\$	
		53 D5 00038	TSTL DIR	: 0733
		0C 13 0003A	BEQL 4\$	
		07 11 0003C	BRB 3\$: 0736

EDTSCHMUNDEL
V04-000

EDTSCHMUNDEL - undelete
EDTSSUNDL - 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,	EDTSSCS_LEFT	: 0737
	F6	52	F4 00045	3\$:	SOBGEQ	I,	2\$: 0739
	50	01	D0 00048	4\$:	MOVL	#1,	R0	: 0740
			04 0004B		RET			: :
		50	D4 0004C	5\$:	CLRL	R0		: :
			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 Page 6 (4)

: 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 MSRC\$:CHMUNDEL.BLI/UPDATE=(ENH\$: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

EDT
V04

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				