```
EEEEEEEEEEEEEEE    DDDDDDDDDDD        TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE    DDDDDDDDDDD        TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE    DDDDDDDDDDD        TTTTTTTTTTTTTTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEEEEEEEEEEE       DDD        DDD           TTT
EEEEEEEEEEEE       DDD        DDD           TTT
EEEEEEEEEEEE       DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEE                DDD        DDD           TTT
EEEEEEEEEEEEEEE    DDDDDDDDDDD              TTT
EEEEEEEEEEEEEEE    DDDDDDDDDDD              TTT
EEEEEEEEEEEEEEE    DDDDDDDDDDD              TTT
```

FILEID**UCVTCASE

```
UU      UU   CCCCCCC  VV      VV  TTTTTTTTTT  CCCCCCC   AAAAAA    SSSSSSSS  EEEEEEEEEE
UUU     UUU  CCCCCCC  VV      VV  TTTTTTTTTT  CCCCCCC   AAAAAA    SSSSSSSS  EEEEEEEEEE
UUU     UUU  CC       VV      VV      TT      CC       AA    AA   SS        EE
UUU     UUU  CC       VV      VV      TT      CC       AA    AA   SS        EE
UUU     UUU  CC       VV      VV      TT      CC       AA    AA   SS        EE
UUU     UUU  CC       VV      VV      TT      CC       AA    AA   SSSSSS    EEEEEEEE
UUU     UUU  CC       VV      VV      TT      CC       AA    AA   SSSSSS    EEEEEEEE
UUU     UUU  CC       VV      VV      TT      CC       AAAAAAAAAA     SS    EE
UUU     UUU  CC        VV    VV       TT      CC       AA    AA       SS    EE
UUU     UUU  CC        VV    VV       TT      CC       AA    AA       SS    EE
UUUUUUUUUU    CCCCCCC     VV          TT       CCCCCCC  AA    AA   SSSSSSSS  EEEEEEEEEE
UUUUUUUUUU    CCCCCCC     VV          TT       CCCCCCC  AA    AA   SSSSSSSS  EEEEEEEEEE
```

```
LL           IIIIII      SSSSSSSS
LL           IIIIII      SSSSSSSS
LL             II      SS
LL             II      SS
LL             II      SS
LL             II        SSSSSS
LL             II        SSSSSS
LL             II              SS
LL             II              SS
LL             II              SS
LLLLLLLLLL   IIIIII   SSSSSSSS
LLLLLLLLLL   IIIIII   SSSSSSSS
```

```
    1    0001   0 %TITLE 'EDT$UCVTCASE - convert to upper case'
    2    0002   0 MODULE EDT$UCVTCASE (                           ! Convert to upper case
    3    0003   0             IDENT = 'V04-000'                   ! File: UCVTCASE.BLI Edit: JBS1006
    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.               *
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   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 !        Convert a character string to upper case.
   37    0037   1 !
   38    0038   1 ! ENVIRONMENT:  Runs at any access mode - AST reentrant
   39    0039   1 !
   40    0040   1 ! AUTHOR: Bob Kushlis, CREATION DATE: February 7, 1978
   41    0041   1 !
   42    0042   1 ! MODIFIED BY:
   43    0043   1 !
   44    0044   1 ! 1-001 - Original.  DJS 19-FEB-1981.  This module was created by
   45    0045   1 !         extracting routine EDT$$CNV_UPC  from module UTIL.
   46    0046   1 ! 1-002 - Regularized headers.  JBS 25-Feb-1981
   47    0047   1 ! 1-003 - Fix module name.  JBS 11-Mar-1981
   48    0048   1 ! 1-004 - Support DEC Multinational character set.  JBS 16-Jul-1982
   49    0049   1 ! 1-005 - Do the conversion by subtracting 32 rather than looking
   50    0050   1 !         in a table, to make this module fit better on the PDP-11.
   51    0051   1 !         JBS 23-Aug-1982
   52    0052   1 ! 1-006 - Add VT220 support conditional.  JBS 11-Feb-1983
   53    0053   1 !--
   54    0054   1
```

```
 56      0055  1 %SBTTL 'Declarations'
 57      0056  1 !
 58      0057  1 ! TABLE OF CONTENTS:
 59      0058  1 !
 60      0059  1
 61      0060  1 REQUIRE 'EDTSRC:TRAROUNAM';
 62      0499  1
 63      0500  1 FORWARD ROUTINE
 64      0501  1     EDT$$CNV_UPC : NOVALUE;
 65      0502  1
 66      0503  1 !
 67      0504  1 ! INCLUDE FILES:
 68      0505  1 !
 69      0506  1
 70      0507  1 REQUIRE 'EDTSRC:EDTREQ';
 71      0642  1
 72      0643  1 LIBRARY 'EDTSRC:TRANSLATE';
 73      0644  1
 74      0645  1 LIBRARY 'EDTSRC:SUPPORTS';
 75      0646  1
 76      0647  1 !
 77      0648  1 ! MACROS:
 78      0649  1 !
 79      0650  1 !       NONE
 80      0651  1 !
 81      0652  1 ! EQUATED SYMBOLS:
 82      0653  1 !
 83      0654  1 !       NONE
 84      0655  1 !
 85      0656  1 ! OWN STORAGE:
 86      0657  1 !
 87      0658  1 !       NONE
 88      0659  1 !
 89      0660  1 ! EXTERNAL REFERENCES:
 90      0661  1 !
 91      0662  1 !       NONE
```

EDT$UCVTCASE   EDT$UCVTCASE - convert to upper case   D 15   VAX-11 Bliss-32 V4.0-742   Page 3
V04-000   EDT$$CNV_UPC - convert to upper case   16-Sep-1984 01:57:55   DISK$VMSMASTER:[EDT.SRC]UCVTCASE.BLI;1   (3)
                                                                     14-Sep-1984 12:25:11

```
 93        0663  1  %SBTTL 'EDT$$CNV_UPC  - convert to upper case'
 94        0664  1
 95        0665  1  GLOBAL ROUTINE EDT$$CNV_UPC (                        ! Convert to upper case
 96        0666  1      STRING,                                          ! Pointer to the string to convert
 97        0667  1      LEN                                              ! Length of that string
 98        0668  1      ) : NOVALUE =
 99        0669  1
100        0670  1  !++
101        0671  1  ! FUNCTIONAL DESCRIPTION:
102        0672  1  !
103        0673  1  !       This routine converts a character string to upper case in place.
104        0674  1  !       Because source and destination overlay we cannot use CH$TRANSLATE.
105        0675  1  !
106        0676  1  ! FORMAL PARAMETERS:
107        0677  1  !
108        0678  1  !   STRING                Pointer to the string.
109        0679  1  !
110        0680  1  !   LEN                   Length of the string.
111        0681  1  !
112        0682  1  ! IMPLICIT INPUTS:
113        0683  1  !
114        0684  1  !       NONE
115        0685  1  !
116        0686  1  ! IMPLICIT OUTPUTS:
117        0687  1  !
118        0688  1  !       NONE
119        0689  1  !
120        0690  1  ! ROUTINE VALUE:
121        0691  1  !
122        0692  1  !       NONE
123        0693  1  !
124        0694  1  ! SIDE EFFECTS:
125        0695  1  !
126        0696  1  !       NONE
127        0697  1  !
128        0698  1  !--
129        0699  1
130        0700  2      BEGIN
131        0701  2
132     L  0702  2  %IF SUPPORT_VT220
133        0703  2  %THEN
134        0704  2
135        0705  2      EXTERNAL
136        0706  2          EDT$$B_CHAR_INFO : BLOCKVECTOR [256, 1, BYTE];  ! Information about characters
137        0707  2
138        0708  2  %FI
139        0709  2
140        0710  2      LOCAL
141        0711  2          C,
142        0712  2          P;
143        0713  2
144        0714  2      P = .STRING;
145        0715  2
146        0716  2      INCR I FROM 1 TO .LEN DO
147        0717  3          BEGIN
148        0718  3          C = CH$RCHAR (.P);
149        0719  3
```

```
;   150      L 0720   3 %IF SUPPORT_VT220
;   151        0721   3 %THEN
;   152        0722   3
;   153        0723   3          IF .EDT$$B_CHAR_INFO [.C, 0, 0, 1, 0] THEN C = .C - %C'a' + %C'A';
;   154        0724   3
;   155      U 0725   3 %ELSE
;   156      U 0726   3
;   157      U 0727   3          IF ((.C GEQ %C'a') AND (.C LEQ %C'z')) THEN C = .C - %C'a' + %C'z';
;   158      U 0728   3
;   159        0729   3 %FI
;   160        0730   3
;   161        0731   3          CH$WCHAR_A (.C, P);
;   162        0732   2          END;
;   163        0733   2
;   164        0734   1      END;                                        ! of routine EDT$$CNV_UPC
;
;
                                                              .TITLE   EDT$UCVTCASE EDT$UCVTCASE - convert to upper ca
;                                                                                                     se
                                                              .IDENT   \V04-000\

                                                              .EXTRN   EDT$$B_CHAR_INFO

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

                                0004 00000           .ENTRY   EDT$$CNV_UPC, Save R2               ; 0665
                    51      04  AC  D0 00002           MOVL     STRING, P                         ; 0714
                            52      D4 00006           CLRL     I                                 ; 0716
                            12      11 00008           BRB      3$
                    50      61  9A 0000A 1$:           MOVZBL   (P), C                            ; 0718
     03 00000000G0040       00  E1 0000D              BBC      #0, EDT$$B_CHAR_INFO[C], 2$       ; 0723
                    50      20  C2 00016              SUBL2    #32, C
                    81      50  90 00019 2$:           MOVB     C, (P)+                           ; 0731
     E9             52  08  AC  F3 0001C 3$:           AOBLEQ   LEN, I, 1$                        ; 0716
                            04 00021                  RET                                         ; 0734
```

; Routine Size: 34 byte ,   Routine Base: _EDT$CODE + 0000

```
;   165           0735  1
;   166           0736  1 !<BLF/PAGE>
```

```
: 168    0737 1 END                                        ! of module EDT$UCVTCASE
: 169    0738 1
: 170    0739 0 ELUDOM
```

<pre>
                          PSECT SUMMARY

        Name   Bytes   Attributes

  _EDT$CODE   34 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

                 Library Statistics

                             -------- Symbols --------   Pages   Processing
        File   Total   Loaded   Percent   Mapped   Time

  _255DUA28:[EDT.SRC]EDT.L32;1   377   0   0   40   00:00.2
  _255DUA28:[EDT.SRC]PSECTS.L32;1   2   1   50   7   00:00.1
  _255DUA28:[EDT.SRC]TRANSLATE.L32;1   6   0   0   57   00:00.1
  _255DUA28:[EDT.SRC]SUPPORTS.L32;1   2   1   50   5   00:00.1

                          COMMAND QUALIFIERS

        BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$:UCVTCASE/OBJ=OBJ$:UCVTCASE MSRC$:UCVTCASE.BLI/UPDATE=(ENH$:UCVT
        CASE)

  Size: 34 code + 0 data bytes
  Run Time: 00:10.1
  Elapsed Time: 00:13.0
  Lines/CPU Min: 4381
  Lexemes/CPU-Min: 12266
  Memory Used: 60 pages
  Compilation Complete
</pre>

SCRUPDATM
LIS

STARTEDT
LIS

TISAVE
LIS

SETCOMMAN
LIS

TIAUTO
LIS

TIDELETE
LIS

TILINE
LIS

TRACEMAC
LIS

UFBUFFER
LIS

SCRZAPSIN
LIS

UEXACASE
LIS

SCRUPDATN
LIS

TITYPAHD
LIS

TSTKEYDEF
LIS

TICLRAUD
LIS

SUPPORTS
LIS

TICHAR
LIS

TIECHO
LIS

TRAROUNAM
LIS

TRANSLATE
LIS

UFSTRING
LIS

SYSVAX
LIS

SCRWID
LIS

TRACELIT
LIS

UCVTCASE
LIS