


```

1 0001 0 %TITLE 'EDT$CHMCHGC - change case'
2 0002 0 MODULE EDT$CHMCHGC ( ! Change case
3 0003 0 IDENT = 'V04-000' ! File: CHMCHGC.BLI Edit: JBS1007
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 executes the change mode commands
37 0037 1 CHGC, CHGU, and CHGL.
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 PROCESS CHGC from routine CHANGE.BLI.
47 0047 1 1-002 - Regularize headers. JBS 27-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 - Change the alphabetic test logic. JBS 19-Jul-1982
51 0051 1 1-006 - New screen update logic. JBS 13-Sep-1982
52 0052 1 1-007 - Add conditionals for WPS and VT220 support. JBS 10-FEB-1983
53 0053 1 --
54 0054 1

```

EDT\$CHMCHGC
V04-000

EDT\$CHMCHGC - change case
Declarations

I 12
15-Sep-1984 23:47:09
14-Sep-1984 12:22:22

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```
: 56      0055 1 %SBTTL 'Declarations'  
: 57      0056 1 |  
: 58      0057 1 | TABLE OF CONTENTS:  
: 59      0058 1 |  
: 60      0059 1 |  
: 61      0060 1 REQUIRE 'EDT$SRC:TRAROUNAM';  
: 62      0499 1 |  
: 63      0500 1 FORWARD ROUTINE  
: 64      0501 1     EDT$$CHG_CAS : NOVALUE;  
: 65      0502 1 |  
: 66      0503 1 |  
: 67      0504 1 | INCLUDE FILES:  
: 68      0505 1 |  
: 69      0506 1 |  
: 70      0507 1 REQUIRE 'EDT$SRC:EDTREQ';  
: 71      0642 1 |  
: 72      0643 1 LIBRARY 'EDT$SRC:TRANSLATE';  
: 73      0644 1 |  
: 74      0645 1 LIBRARY 'EDT$SRC: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 |     In the routine
```

! Process the changecase commands


```

: 93      0663 1 %SBTTL 'EDT$$CHG_CAS - change case'
: 94      0664 1
: 95      0665 1 GLOBAL ROUTINE EDT$$CHG_CAS (           ! Change case
: 96      0666 1     FC,                               ! first character
: 97      0667 1     LC,                               ! last character
: 98      0668 1     ) : NOVALUE =
: 99      0669 1
100      0670 1 !++
101      0671 1 ! FUNCTIONAL DESCRIPTION:
102      0672 1 !
103      0673 1 !     This is the processing routine for the changecase commands.
104      0674 1 !     This routine is called by the process lines command
105      0675 1 !     for each line of the selected text.
106      0676 1 !
107      0677 1 ! FORMAL PARAMETERS:
108      0678 1 !
109      0679 1 !     FC           First character position to process
110      0680 1 !
111      0681 1 !     LC           Last character position to process
112      0682 1 !
113      0683 1 ! IMPLICIT INPUTS:
114      0684 1 !
115      0685 1 !     EDT$$G_CAS_TYP
116      0686 1 !
117      0687 1 ! IMPLICIT OUTPUTS:
118      0688 1 !
119      0689 1 !     NONE
120      0690 1 !
121      0691 1 ! ROUTINE VALUE:
122      0692 1 !
123      0693 1 !     NONE
124      0694 1 !
125      0695 1 ! SIDE EFFECTS:
126      0696 1 !
127      0697 1 !     NONE
128      0698 1 !
129      0699 1 ! --
130      0700 1 !
131      0701 2 ! BEGIN
132      0702 2 !
133      L 0703 2 ! %IF SUPPORT_WPS
134      0704 2 ! %THEN
135      0705 2 !
136      0706 2 !     EXTERNAL
137      0707 2 !     EDT$$G_CAS_TYP;           ! Type of case change: invert, force upper or force lower
138      0708 2 !
139      0709 2 ! %FI
140      0710 2 !
141      L 0711 2 ! %IF SUPPORT_VT220
142      0712 2 ! %THEN
143      0713 2 !
144      0714 2 !     EXTERNAL
145      0715 2 !     EDT$$B_CHAR_INFO : BLOCKVECTOR [256, 1, BYTE]; ! Information about characters
146      0716 2 !
147      0717 2 ! %FI
148      0718 2 !
149      0719 2 ! LOCAL
```

```

: 150      0720      2          CP,
: 151      0721      2          CHAR;
: 152      0722      2
: 153      0723      2          CP = .FC;
: 154      0724      2
: 155      0725      2          WHILE CH$PTR_NEQ (.CP, .LC) DO
: 156      0726      2          BEGIN
: 157      0727      2
: 158      L 0728      2          %IF SUPPORT_VT220
: 159      0729      2          %THEN
: 160      0730      2
: 161      0731      2          IF (.EDT$$B_CHAR_INFO [CH$RCHAR (.CP), 0, 0, 2, 0] NEQ 0)      ! If this is a letter
: 162      0732      2          THEN
: 163      U 0733      2          %ELSE
: 164      U 0734      2          CHAR = CH$RCHAR (.CP);
: 165      U 0735      2
: 166      U 0736      2          IF (((.CHAR GEQ %C'A') AND (.CHAR LEQ %C'Z')) OR ((.CHAR GEQ %C'a') AND (.CHAR LEQ %C'z')))
: 167      U 0737      2          THEN
: 168      0738      2          %FI
: 169      0739      2
: 170      L 0740      2          %IF SUPPORT_WPS
: 171      0741      2          %THEN
: 172      0742      2
: 173      0743      2          CASE .EDT$$G_CAS_TYP FROM CASE_K_CHGC TO CASE_K_CHGL OF
: 174      0744      2          SET
: 175      0745      2          [CASE_K_CHGC] :
: 176      0746      2
: 177      0747      2          %FI
: 178      0748      2
: 179      0749      2          !+
: 180      0750      2          !- Invert case
: 181      0751      2          !-
: 182      0752      2          CH$WCHAR (CH$RCHAR (.CP) XOR 32, .CP);
: 183      0753      2
: 184      L 0754      2          %IF SUPPORT_WPS
: 185      0755      2          %THEN
: 186      0756      2
: 187      0757      2          [CASE_K_CHGU] :
: 188      0758      2          !+
: 189      0759      2          !- Force to upper case
: 190      0760      2          !-
: 191      0761      2          CH$WCHAR (CH$RCHAR (.CP) AND ( NOT 32), .CP);
: 192      0762      2
: 193      0763      2          [CASE_K_CHGL] :
: 194      0764      2          !+
: 195      0765      2          !- Force to lower case
: 196      0766      2          !-
: 197      0767      2          CH$WCHAR (CH$RCHAR (.CP) OR 32, .CP);
: 198      0768      2
: 199      0769      2          [OUTRANGE] :
: 200      0770      2          ASSERT (0);
: 201      0771      2          TES;
: 202      0772      2
: 203      0773      2          %FI
: 204      0774      2
: 205      0775      2          CP = CH$PLUS (.CP, 1);
: 206      0776      2          END;

```

EDT\$CHMCHGC
V04-000

EDT\$CHMCHGC - change case
EDT\$\$CHG_CAS - change case

L 12
15-Sep-1984 23:47:09
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: 207
: 208
0777 2
0778 1 END;

! of routine EDT\$\$CHG_CAS

```

0004 00000
08 52 04 AC D0 00002
AC 52 D1 00006 1$:
35 13 0000A
50 62 9A 0000C
03 00000000G0040 93 0000F
24 13 00017
02 01 00000000G 00 CF 00019
0019 0014 000F 00021 2$:
00000000G 00 00 FB 00027
0D 11 0002E
62 20 8C 00030 3$:
08 11 00033
62 20 8A 00035 4$:
03 11 00038
62 20 88 0003A 5$:
52 D6 0003D 6$:
C5 11 0003F
04 00041 7$:

```

```

.TITLE EDT$CHMCHGC EDT$CHMCHGC - change case
.IDENT \V04-000\
.EXTRN EDT$$G_CAS_TYP, EDT$$B_CHAR_INFO
.EXTRN EDT$$INTER_ERR
.PSECT _EDT$CODE,NOWRT, SHR, PIC,2
.ENTRY EDT$$CHG_CAS, Save R2 : 0665
MOVL FC, CP : 0723
CMLP CP, LC : 0725
BEQL 7$
MOVZBL (CP), R0 : 0731
BITB EDT$$B_CHAR_INFO[R0], #3
BEQL 6$
CASEL EDT$$G_CAS_TYP, #1, #2 : 0767
.WORD 3$-2$,=
4$-2$,=
5$-2$
CALLS #0, EDT$$INTER_ERR : 0770
BRB 6$ : 0767
XORB2 #32, (CP) : 0752
BRB 6$ : 0767
BICB2 #32, (CP) : 0761
BRB 6$ : 0767
BISB2 #32, (CP)
INCL CP : 0775
BRB 1$ : 0725
RET : 0778

```

: Routine Size: 66 bytes, Routine Base: _EDT\$CODE + 0000

: 209
: 210
0779 1
0780 1 !<BLF/PAGE>

EDT\$CHMCHGC
V04-000

EDT\$CHMCHGC - change case
EDT\$\$CHG_CAS - change case

M 12
15-Sep-1984 23:47:09
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: 212 0781 1 END
: 213 0782 1
: 214 0783 0 ELUDOM

! of module EDT\$CHMCHGC

PSECT SUMMARY

Name Bytes Attributes
:_EDT\$CODE 66 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	5	1	40	00:00.2
-\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1
-\$255\$DUA28:[EDT.SRC]TRANSLATE.L32;1	6	0	0	57	00:00.1
-\$255\$DUA28:[EDT.SRC]SUPPORTS.L32;1	2	2	100	5	00:00.1

COMMAND QUALIFIERS

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

: Size: 66 code + 0 data bytes
: Run Time: 00:11.5
: Elapsed Time: 00:13.7
: Lines/CPU Min: 4095
: Lexemes/CPU-Min: 12151
: Memory Used: 70 pages
: Compilation Complete

