

```
' McCub -- A Just BASIC / Liberty BASIC Case Conversion utility
' It allows you to --
' change the case of Reserved words, such as FOR, IF, SCAN
' change case of Functions, such as CHR$(, DATE$(, EOF(, SIN(
' case conversion for text inside strings.
```

```
On Error Goto [ErrorTrapper]
```

```
' Just BASIC's RESERVED WORDS list
```

```
Data AND, APPEND, AS, BEEP, BMPBUTTON, _
  BMPSAVE, BOOLEAN, BUTTON, BYREF, CALL, _
  CASE, CHECKBOX, CLOSE, CLS, COMBOBOX, _
  CONFIRM, DATA, DIALOG, DIM, DO, _
  DUMP, ELSE, END, ERROR, EXIT, _
  FIELD, FILEDIALOG, FILES, FOR, FUNCTION, _
  GET, GLOBAL, GOSUB, GOTO, GRAPHICBOX, _
  GRAPHICS, GROUPBOX, IF, INPUT, KILL, _
  LET, LINE, LISTBOX, LOADBMP, LONG, _
  LOOP, LPRINT, MAINWIN, MAPHANDLE, MENU, _
  NAME, NEXT, NOMAINWIN, NONE, NOTICE, _
  ON, ONCOMERROR, OR, OPEN, OUTPUT, _
  PLAYMIDI, PLAYWAVE, PRINT, PROMPT, PUT, _
  RADIOBUTTON, RANDOM, RANDOMIZE, READ, READJOYSTICK, _
  REDIM, "REM", RESTORE, RETURN, RUN, _
  SCAN, SELECT, STATICTEXT, STOP, STOPMIDI , _
  SUB, TEXT, TEXTBOX, TEXTEDITOR, THEN, _
  TIMER, UNLOADBMP, UNTIL, WAIT, WINDOW, _
  WEND, WHILE, WORD, XOR
```

```
' Missing Just BASIC RESERVED WORDS:
```

```
Data BINARY, BYVAL, CALLFN, COLORDIALOG, LOCATE, _
  MOD, PRINTERDIALOG, SEEK, STEP, TO
```

```
' Liberty BASIC-only RESERVED WORDS
```

```
Data CALLBACK, CALLDLL, CURSOR, DLL, DOUBLE, _
  DWORD, FONTDIALOG, GETTRIM, MAPHANDLE, OUT, _
  PASSWORD, POPUPMENU, PTR, RESUME, SHORT, _
  SORT, STRUCT, STYLEBITS, TITLEBAR, TRACE, _
  ULONG, USHORT, VOID
```

```
' End of Data marker
```

```
Data "ZZZ"
```

```
' Just BASIC FUNCTIONS:
```

```
' Note that the opening parenthesis is part of the function name:
```

```
Data "ABS(", "ACS(", "ASC(", "ASN(", "ATN(", _  
"CHR$(", "COS(", "DATE$(", "EOF(", "EXP(", _  
"INPUT$(", "INSTR(", "INT(", "LEFT$(", "LEN(", _  
"LOF(", "LOG(", "LOWER$(", "MIDIPOS(", "MID$(", _  
"MKDIR(", "NOT(", "RIGHT$(", "RMDIR(", "RND(", _  
"SIN(", "SPACE$(", "SQR(", "STR$(", "TAB(", _  
"TAN(", "TIME$(", "TRIM$(", "TXCOUNT(", "UPPER$(", _  
"USING(", "VAL(", "WORD$("
```

```
' Missing FUNCTIONS:
```

```
Data "LOC("
```

```
' Liberty BASIC-only FUNCTIONS
```

```
Data "DECHEX$(", "EVAL(", "EVAL$(", "HBMP(", "HEXDEC(", "HWND(", _  
"INP(", "INPUTTO$(", "MAX(", "MIN(", "WINSTRING("
```

```
' End of Data marker
```

```
Data "ZZZ"
```

```
Global basfileOpen, mainOpen  
Dim allwords$(10), option(10)
```

```
' Read keywords$
```

```
Gosub [LoadWords]
```

```
nkeywords = n
```

```
Print "Keywords read = "; n
```

```
allwords$(1) = keys$
```

```
' Read functions$
```

```
Gosub [LoadWords]
```

```
nfunctions = n
```

```
Print "Functions read = "; n
```

```
allwords$(2) = keys$
```

```
opt1str$ = "No change,First letter,lowercase,UPPERCASE"
```

```
opt2str$ = "No change,First letter,lowercase,UPPERCASE"
```

```
opt3str$ = "No change,First letter,lowercase,UPPERCASE"
```

```
For a = 1 To 4
```

```
    opt1ray$(a) = word$(opt1str$,a,"")
```

```
    opt2ray$(a) = word$(opt2str$,a,"")
```

```
    opt3ray$(a) = word$(opt3str$,a,"")
```

```
Next
```

```
WindowWidth  = 365
```

```
WindowHeight = 390
```

```
Statictext #main.st1, "Path: None Selected", 10, 20, 300, 25
Statictext #main.st2, "File: None Selected", 10, 50, 300, 25
Statictext #main.st3,
"How would you like your BASIC text?", 50, 90, 300, 25
Statictext #main.opt1, "Keywords: ", 20, 130, 80, 25
Statictext #main.opt2, "Functions:", 20, 160, 80, 25
Statictext #main.opt3, "Quoted text:", 20, 250, 120, 25
Combobox #main.keywords, opt1ray$(), setopt1, 140, 130, 170, 25
Combobox #main.functions, opt2ray$(), setopt2, 140, 160, 170, 25
Combobox #main.strings, opt3ray$(), setopt3, 140, 250, 170, 25

Button #main.getfile, " Choose File ", ChooseFile, UL, 20, 300
Button #main.go, " GO ", McCubit, UL, 260, 300

Open "McCub: A Code Case Utility" For Window As #main
#main "trapclose [mainquit]"
mainOpen = 1
#main "font Arial 12"
#main.st1 "!font Arial_Narrow 12"
#main.st2 "!font Arial_Narrow 12"
#main.keywords "selectindex 1"
#main.functions "selectindex 1"
#main.strings "selectindex 1"
#main.getfile "!setfocus"
Wait

[mainquit]
  If basfileOpen=1 Then Close #basfile
  If mainOpen=1 Then Close #main
End
' ----- End of Main Program -----

' Gosub to read DATA statements into string
[LoadWords]
  lastone$ = "ZZZ"
  n = 0 : Read k$ : keys$ = " "
  While k$<>lastone$
    n = n + 1
    keys$ = keys$ + k$ + " "
    Read k$
  Wend
Return

Sub setopt1 handle$
  #main.keywords, "selectionindex? x"
  option(1) = x
```

```
End Sub
```

```
Sub setopt2 handle$
    #main.functions, "selectionindex? x"
    option(2) = x
End Sub
```

```
Sub setopt3 handle$
    #main.strings, "selectionindex? x"
    option(3) = x
End Sub
```

```
' Choose File sub
Sub ChooseFile handle$
    Filedialog "Open BASIC source code", "*.bas;*.BAS", myfile$
    If myfile$<>" " Then
        allwords$(0) = myfile$ ' store in global array
        x = Len(myfile$) ' separate path and filename
        While x>0 And Mid$(myfile$,x,1)<>"\"
            x = x - 1
        Wend
        mypath$ = Mid$(myfile$, 1, x)
        myfile$ = Mid$(myfile$, x+1, 256)
        #main.st1 "Path: "+mypath$
        #main.st2 "File: "+myfile$
        Print "BAS file chosen: "; mypath$, myfile$
    End If
End Sub ' ChooseFile
```

```
' Open & read source file. Apply user's selections to text.
' Print to mainwin (or .new file)
Sub McCubit handle$
    quote$ = Chr$(34)
    Print "Keywords option = "; opt1ray$(option(1))
    Print "Functions option = "; opt2ray$(option(2))
    Print "Quoted text option= "; opt3ray$(option(3))
    stopper$ = " , ; ( ) = < > + - * / " + Chr$(34) + Chr$(39) + Chr$(13) + Chr$(10)

    If allwords$(0)<>" " Then
        Open allwords$(0) For Input As #basfile
        Print allwords$(0); " opened."
        Print

"=====
="

        While Eof(#basfile)=0
```

```
Line Input #basfile, code$
While Right$(code$,1)=" "      ' remove trailing whitespace
    code$ = Left$(code$,Len(code$)-1)
Wend
codePos = 0
' print code$
newCode$ = ""
While codePos<Len(code$)
    wrd$ = GetNextWord$(code$, codePos, stopper$)
    If Instr(allwords$(1), Upper$(" "+wrd$+" "), 1)>0 Then
        Select Case option(1)
'if so convert it to users' choice
            Case 2 : wrd$ = Capitalize$(wrd$)
' First letter cap
            Case 3 : wrd$ = Lower$(wrd$)      ' lowercase
            Case 4 : wrd$ = Upper$(wrd$)      ' UPPERCASE
        End Select
    End If
    If Instr(allwords$(2), Upper$(" "+wrd$+"( "), 1)>0
Then
        Select Case option(2)
'if so convert it to users' choice
            Case 2 : wrd$ = Capitalize$(wrd$)
' First letter cap
            Case 3 : wrd$ = Lower$(wrd$)      ' lowercase
            Case 4 : wrd$ = Upper$(wrd$)      ' UPPERCASE
        End Select
    End If
    If Right$(wrd$,1)=quote$ Then
        Select Case option(3)
'if so convert it to users' choice
            Case 2 : wrd$ = Capitalize$(wrd$)
' First letter cap
            Case 3 : wrd$ = Lower$(wrd$)      ' lowercase
            Case 4 : wrd$ = Upper$(wrd$)      ' UPPERCASE
        End Select
    End If
' print wrd$
    newCode$ = newCode$ + wrd$ + Mid$(code$, codePos, 1)
Wend
Print newCode$
'
print #fout, newCode$
Wend
Close #basfile
'
close #fout
End If
```

```
End Sub ' McCubit

' code$ = line of source code to be examined.
' cpos = current position in code$
' stopper$ = characters marking end of word
Function GetNextWord$(code$, Byref cpos, stopper$)

' if at start of comment ('), then skip to end of line
  If Mid$(code$,cpos,1)=Chr$(39) Then stopper$ = ""

' if at start of quote ("), then only stopper is closing "
  If Mid$(code$,cpos,1)=Chr$(34) Then stopper$ = Chr$(34)

  oldpos = cpos+1
  npos = Len(code$) ' temporary setting of next stopper
  For a = 1 To Len(stopper$)
    s$ = Mid$(stopper$,a,1)
    p = Instr(code$, s$, oldpos)
    If p>0 And p<npos Then npos = p
  Next a
' print "next stopper = "; npos
  If npos=Len(code$) Then
    npos = npos+1
  Else
    If s$=Chr$(34) Then npos = npos+1
  End If

  cpos = npos
  GetNextWord$ = Mid$(code$, oldpos, npos-oldpos)
End Function ' GetNextWord$
```

```
Function Capitalize$(w$)
  c1$ = Upper$(Left$(w$,1))
  c2$ = Lower$(Mid$(w$,2,Len(w$)))
  Capitalize$ = c1$ + c2$
End Function
```

```
Function FileExists(path$,file$)
  Dim info$(10,10)
  Files path$,file$, info$()
  FileExists = Val(info$(0, 0)) ' non zero is true
End Function
```

[ErrorTrapper]

```
Print "Err    = "; Err
Print "Err$   = "; Err$
Wait
```