

## Functions and Subroutines Available in Betalib.DLL

### LibVersion

*Declare Function LibVersion Lib "betalib.dll" As Integer*

Returns the version of Beta as an integer. E.g. version 2.12 would be returned at 212

### SwitchTo

*Declare Sub SwitchTo Lib "betalib.dll" (language As Integer)*

*Declare Function SwitchTo Lib "betalib.dll" (language As Integer) As Integer*

Switches the current language where:

SwitchTo also has the feature that it will load Beta if it is not already loaded. Beta's icon will change to indicate the current language. SwitchTo is usually used as a subroutine (i.e. the return value is ignored) but can also be used as a function in which case the previous language number is returned. Other possible values returned are: -3 invalid language, -2 failed to load Beta, -1 loaded Beta

### SetLast

*Declare Sub SetLast Lib "betalib.dll" (LastChar As Integer)*

*Declare Function SetLast Lib "betalib.dll" (LastChar As Integer) As String*

Beta always keeps a record of the last key to be pressed, so that when a new key is pressed, the pair can be checked to see if they are a valid accent combination. SetLast allows the value of the last key to be changed. This is typically set to the character before the cursor. SetLast is usually used as a subroutine (i.e. the return value is ignored) but can also be used as a function in which case a string is returned containing the version number and date.

### Combine

*Declare Function Combine Lib "betalib.dll"(Ch As Integer, Last As Integer, Lang As Integer) As int*

This and the following two functions use Beta in what is called *server mode*. The ability of Beta to intercept keystrokes is ignored, and it is used for combining and splitting accented characters. Combine returns the result of combining characters *ch* and *last*, in the language *Lang*. If the combination is invalid, then -1 is returned. The current language setting of Beta is unaffected.

### UnAccent

*Declare Function UnAccent Lib "betalib.dll" (Char As Integer, Lang As Integer) As Integer*

UnAccent attempts to remove the accent from *Char* and return the resulting vowel (using the rules for the language *Lang*). If the operation is not valid, then -1 is returned. If the vowel had two diacritics,

then accents are removed before breathings.

## **UnVowel**

*Declare Function UnVowel Lib "betalib.dll" (Char As Integer, Lang As Integer) As Integer*

UnVowel attempts to remove the accent from *Char* and return it (using the rules for the language *Lang*) and return it. If the operation is not valid, then -1 is returned. If the vowel had two diacritics, then accents are returned rather than breathings.

## **Acc2Key and Key2Acc**

*Declare Function Acc2Key Lib "betalib.dll" (Acc As Integer, Lang As Integer) As Integer*

*Declare Function Key2Acc Lib "betalib.dll" (Key As Integer, Lang As Integer) As Integer*

These two functions convert between accent *keys* and their respective code points in the character set. These are not always the same, and in some cases several keys will produce the same accent. The keys on the numeric keypad: / \* - and + are represented by keys 130, 131, 132, 133. If the value is not an accent then -1 is returned.

## **Glob**

*Declare Function Glob Lib "betalib.dll" (Index As Integer, Value As Integer, Write as Integer) As Integer*

Provides global storage for wfw macros. An array of 11 integers is provided, accessed by setting index from 0 to 10. If *Write* is 0, the value of the element is returned. Otherwise "Value" is written into the element and the previous value is returned.

## **ChClass**

*Declare Function ChClass Lib "betalib.dll" (ch As Integer, Lang As Integer) As Integer*

Returns the class of character *ch* in Language *Lang* where:

3 = combination, 2 = accent, 1 = vowel, 0 = other.

2 is returned for combinations that are also accents.

## Word for Windows Macros

Macros are set to the following keys in Beta.dot (They may of course be changed)

F10

(use the ALT key instead to get to the menu bar)

F11

F12

Pause

Shift/Pause

=====*BetaEnglish*

*Switches back to the default font (using resetchar).*

If the switch is from Hebrew, then an attempt is made to be intelligent about where to leave the cursor. If Hebrew was entered with the cursor at the end of the line, then it will now move back to the end of the line.

```
Declare Sub SwitchTo Lib "betalib.dll" (language As Integer)
```

```
Declare Function SetLast Lib "betalib.dll" (LastChar As Integer) As String
```

```
Declare Function Glob Lib "betalib.dll"(Ind As Integer, Valu As Integer, Wr As Integer) As Integer
```

```
Sub MAIN
```

```
  If(Font$() = "Hebrew") And(Glob(1, 0, 0) = 13) Then EndOfLine
```

```
  ResetChar
```

```
  SwitchTo(1)
```

```
End Sub
```

=====*BetaGreek*

*Switches to Greek and sets the size to 12 point.*

```
Declare Sub SwitchTo Lib "betalib.dll" (language As Integer)
```

```
Sub MAIN
```

```
FormatCharacter .Font = "Greek", .Points = "12"
```

```
SwitchTo(2)
```

```
End Sub
```

=====BetaHebrew

*Switches to Hebrew and sets the size to 12 point.*

*In order to prevent the program switching back out of Hebrew due to right-to-left typing, the space character to the left of the insertion point is also converted to Hebrew. If there was no space character, then one is inserted.*

Declare Sub SwitchTo Lib "betalib.dll" (language As Integer)

Declare Function Glob Lib "betalib.dll"(Ind As Integer, Valu As Integer, Wr As Integer) As Integer

Sub MAIN

x = Glob(1, Asc(Selection\$()), 1)

Dim Form As FormatCharacter

GetCurValues Form

If Form.Font <> "Hebrew" Then

CharLeft()

If Selection\$() = " " Then

EditClear 1

Else

CharRight()

End If

Form.Font = "Hebrew"

'Form.Points = "12"

FormatCharacter Form

Insert " "

End If

SwitchTo(3)

End Sub

=====BetaBackSpace

*Intelligent Backspace.*

*First the macro reads the current font and sets Beta up accordingly.*

*If the language is Hebrew then a reverse backspace is performed.*

*If the language was English or Greek and the previous character was accented, then instead of backspacing off the whole character, only the accent is removed. A second backspace will of course remove the vowel as well.*

Declare Sub SetLast Lib "betalib.dll" (LastChar As Integer)

Declare Sub SwitchTo Lib "betalib.dll" (language As Integer)

Declare Function UnAccent Lib "betalib.dll" (Char As Integer, Lang As Integer) As Integer

Sub MAIN

Select Case Font\$()

Case "Greek"

Lang = 2

Case "Hebrew"

```
Lang = 3
Case Else
Lang = 1
End Select
SwitchTo(Lang)
```

```
If Lang = 3 Then
EditClear 1
Else
```

```
CharLeft()
Last$ = Selection$()
CharRight()
SetLast(Asc(Last$))
```

```
Vowel = UnAccent(Asc(Last$), Lang)
```

```
EditClear - 1
If Vowel <> - 1 Then
Insert Chr$(Vowel)
SetLast(Vowel)
```

```
Else
CharLeft()
Last$ = Selection$()
CharRight()
SetLast(Asc(Last$))
```

```
End If
End If
End Sub
```

=====**BetaMagic**=====

*This is a very simple macro which reads the current font and previous character and sets Beta up accordingly. To use, place the cursor at the point where it is desired to insert text, and press the key associated with this macro*

```
Declare Sub SetLast Lib "betalib.dll" (LastChar As Integer)
Declare Sub SwitchTo Lib "betalib.dll" (language As Integer)
```

```
Sub MAIN
Select Case Font$()
Case "Greek"
SwitchTo(2)
Case "Hebrew"
SwitchTo(3)
Case Else
SwitchTo(1)
End Select
```

```
CharLeft()  
Last$ = Selection$()  
CharRight()  
SetLast(Asc(Last$))  
End Sub
```

=====**BetaReverse**

*Select some text and run this macro to reverse the characters.  
Does not work properly if the text spans more than one line.*

Sub MAIN

Old\$ = Selection\$()

Length = Len(Old\$)

New\$ = ""

For i = 1 To Length

New\$ = Mid\$(Old\$, i, 1) + New\$

Next i

EditClear

Insert New\$

End Sub

=====**BetaToGreek**

*Select some text and run this macro to convert from English text into Greek. Pairs of vowel-accent characters are converted into accented characters. This macro is useful if you need to enter Greek words but are not using Windows at the time. Later the document may be read into WfW and the Greek words converted using this macro.*

Declare Function Combine Lib "betalib.dll"(Ch As Integer, Last As Integer, Lang As Integer) As Integer

Sub MAIN

Old\$ = Selection\$()

Length = Len(Old\$)

New\$ = ""

Last\$ = " "

For i = 1 To Length

Next\$ = Mid\$(Old\$, i, 1)

Result = Combine(Asc(Next\$), Asc>Last\$), 2)

If Result < 0 Then

New\$ = New\$ + Next\$

Last\$ = Next\$

Else

Last\$ = Chr\$(Result)

New\$ = Left\$(New\$, Len(New\$) - 1) + Last\$

End If

Next i

EditClear

FormatCharacter .Font = "Greek", .Points = "12"

Insert New\$

End Sub





=====BetaFromGreek

*Select some text and run this macro to convert from Greek text to English. The accents are expanded out to the keys used originally to create the Greek text. This macro does the reverse of BetaToGreek. It is useful if a document needs to be converted to contain only ASCII characters, for example for email.*

```
Declare Function UnAccent Lib "betalib.dll" (Char As Integer, Lang As Integer) As Integer
Declare Function UnVowel Lib "betalib.dll" (Char As Integer, Lang As Integer) As Integer
```

```
Sub MAIN
```

```
Old$ = Selection$()
```

```
Length = Len(Old$)
```

```
New$ = ""
```

```
For i = 1 To Length
```

```
Next$ = Mid$(Old$, i, 1)
```

```
Vowel = UnAccent(Asc(Next$), 2)
```

```
If Vowel < 0 Then
```

```
    New$ = New$ + Next$
```

```
Else
```

```
    Acc$ = Chr$(UnVowel(Asc(Next$), 2))
```

```
    Vowel2 = UnAccent(Vowel, 2)
```

```
    If Vowel2 < 0 Then
```

```
        New$ = New$ + Chr$(Vowel) + Acc$
```

```
    Else
```

```
        Acc2$ = Chr$(UnVowel(Vowel, 2))
```

```
        New$ = New$ + Chr$(Vowel2) + Acc2$ + Acc$
```

```
    End If
```

```
End If
```

```
Next i
```

```
EditClear
```

```
ResetChar
```

```
Insert New$
```

```
End Sub
```

=====Combine

*A macro for use in Hebrew. Type a consonant followed by one or more vowels/diacritics, and press Combine. The macro will replace character pairs with combinations where they are available, otherwise it will overstrike the characters.*

```
Declare Function Combine Lib "betalib.dll"(Ch As Integer, Last As Integer, Lang As Integer) As Integer
```

```
Declare Function ChClass Lib "betalib.dll"(ch As Integer, Lang As Integer) As Integer
```

```
Sub MAIN
```

```
MoveCount = 0
```

```
NewStr$ = ""
```

```

c$ = Selection$()
While ChClass(Asc(c$), 3) = 2
  CharRight 1
  MoveCount = MoveCount + 1
  Result = Combine(Asc(c$), Asc(Selection$()), 3)
  If Result > - 1 Then
    c$ = Chr$(Result)
  Else
    NewStr$ = NewStr$ + c$
    c$ = Selection$()
  End If
Wend
NewStr$ = NewStr$ + c$

If c$ = Chr$(21) Then
  MsgBox "Character already overstruck"
  Goto abort
End If

Print NewStr$
CharRight 1
CharLeft MoveCount + 1, 1
EditClear

Lenstr = Len(NewStr$)
If lenstr > 1 Then
  newchars$ = "eq \O("
  For i = 1 To Lenstr
    newchars$ = newchars$ + Mid$(NewStr$, i, 1)
    If Mid$(NewStr$, i, 1) = "\" Then newchars$ = newchars$ + "\"
    If i <> Lenstr Then newchars$ = newchars$ + ","
  Next i
  InsertField .Field = newchars$ + ")"
Else
  Insert NewStr$
End If

CharLeft 1
abort:
End Sub

```