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Visual Basic For Applications POWER DLL

Bainbridge Knowledge Management Arts, Inc.

PAYMENT

This DLL uses certain unique characteristics of some VBA application to allow the following functions to appear as *Native* functions. Normally there is considerable overhead in doing API calls from VBA, for example:

The usual way to get a Win.ini value is:

```
A$=GetWinIni("Fonts","Arial")
....
Function GetWinIni(byval Section$,Byval Entry$)
Dim Buffer$
Dim rc%
Buffer$=String(2048," ")
rc%=GetProfileString(Section$,Entry$,"",Buffer$,len(Buffer$))
GetWinIni=Left(Buffer$,rc%)
End Sub
```

with this DLL it is just:

```
A$=WinIniGet("Fonts","Arial")
```

The difference in performance and code simplicity is dramatic. The functions in this DLL are most commonly used -- or needed, including a Millisecond Accurate Clock Watch to time code performance, system information and Version Information for exec's, DLL etc.

[No warranty is made whether this product will work or continue working](#) with different VBA applications from Microsoft, i.e. Excel, WinWord, Access, VB. See Copyright Notice. **This code will not work with WinWord 2.**

Files:

VBA_BKMA.DLL	VBA Power DLL
VBA_INI.FRM	VB Code for Demo
VBA_STRI.FRM	VB Code for Demo
VBA_BKMA.FRM	VB Code for Demo
VBA_BKMA.FRX	VB Code for Demo
TESTDLL.MAK	VB Code for Demo
BKMA_VBA.EXE	VB Demo Program
VBA_BKMA.TXT	Functions Declaration
VBA_BKMA.HLP	Help File
VBA_BKMA.WRI	HardCopy of WinHelp
VBA_BKMA.MDB	Access 2.0 Example

Information Procedures

These functions allow Critical Information to be easily obtained.

 **Function (vba)WinDir() as String**
Returns the Windows Directory.

 **Function (vba)SysDir as String**
Returns the Windows System Directory.

Function (vba)TmpDrv() as string

Returns the a drive that is available for temporary files. This returns the letter of the first available hard drive. This is on your TEMP, if it is specified.

 **Function (vba)TmpFile() as string**

Returns the name of a temporary file on the current default drive.

Function (vba)DrvType(Drive Letter) as Integer

Determine the type of drive, i.e. i%=DrvType("G:")

Returns

- 0-Error
- 1-Removable
- 2-Fixed
- 3-Remote

Example

if 2<>vbaDrvType("C") Then msgbox "C is not a fixed drive. Workstation?"

 **Function (vba)DosVersion() as String**
Returns the DOS version as a string.

 **Function (vba)WinVersion() as String**
Returns the Windows Version in use as a string.

 **Function (vba)DosEnv(byval lineno%) as String**

This returns the Dos Environment, The line number indicates which line of the Dos Environment is returned. When no more lines are available an empty string is returned.

Function (vba)CPUMode () As String

Returns the Mode windows is operating in:

"Enhanced(386)"

"Paging"

"Standard(286)"

"Protected Mode"

"Windows Emulation"

"Unknown";

 **Function (vba)MathCoprocesor () As Integer**
Returns True is a x87 is installed.

Function (vba)CPU () As String

Returns the type of CPU running:

"8086"

"80186"

"80286"

"80386"

"80486"

"Nox86"

Ini Functions

These functions allow all the Ini manipulations to be done easily.

 **Function (vba)WinIniGet(byval Section\$,byval Entry\$) as String**
Return the value from *Win.ini* of *entry\$* in *Section\$*.

 **Function (vba)WinIniGetAll(byval Section\$) as String**

Return the entire contents from *Win.ini* of *Section\$*. Each line is delimited by chr\$(0). See ParseSz to extract individual components

 **Function (vba)IniGet(byval Section\$,byval Entry\$,byval FileName\$) as String**
Return the value from *Filename\$* of *entry\$* in *Section\$*.

▶ Function (vba)IniGetAll(byval Section\$,byval FileName\$) as String

Return the entire contents from *Filename\$* of *Section\$*. Each line is delimited by chr\$(0). See ParseSz to extract individual components

Sub (vba)WinIniFlush()

Win.ini is cached by windows. If you intend to read the file sequentially or need the contents written to disk, this will flush the cache.

 **Sub (vba)WinIniDel(byval Section\$,byval Entry\$)**
Deletes an entry from Win.ini

 **Sub (vba)WinIniDelSect(byval Section)**
Deletes an entire section from Win.Ini -- Be careful!

 **Sub (vba)IniDel(byval Section\$,byval Entry\$, byval FileName\$)**
Deletes an entry from *FileName\$*.

 **Sub (vba)IniDelSect(byval Section\$,byval Entry\$, byval FileName\$)**

Deletes an entire section from *FileName\$*.

Sub (vba)About_vba_BKMA(ByVal Key As Long) As String

File Version

Versions of DLL's, VBX's OCX's are a joy the programmer would prefer to avoid. The following functions can simplify some problems.

 **Function vbaFileVersion (ByVal FileName\$, ByVal info%) As String**

Returns the internal information (not the String information--this is usually more reliable).

Global Const FV_Version = 1

Global Const FV_ProductVersion = 2

 **Function (vba)Memory (ByVal info%) As Integer**

Returns the Percentage of Memory Available. These are rough measures.

Global Const M_UserFreePercent = 1

Global Const M_GDIFreePercent = 2

 **Function (vba)PageMemory (ByVal info%) As Integer**

Returns the pages of different memory available:

- 1 LargestFreeBlock
- 2 MaxPagesAvailable
- 3 MaxPagesLockable
- 4 TotalLinearSpace
- 5 TotalUnlockedPages
- 6 FreePages
- 7 TotalPages
- 8 FreeLinearSpace
- 9 SwapFilePages
- 10 PageSize

▶ Function (vba)ModuleLocation (ByVal fn\$) As String

Returns where a Module in Memory was loaded from. This is very helpful for problems with different versions of a DLL -- you can identify where the 'bad' version is located and take appropriate action.

STOPWATCH

Windows time runs off the DOS interrupt which is accurate to 1/18 second or less. The chips on the motherboard can be programmed to produce more accurate timing -- this uses one of those chips.

 **Sub vbaResetStopWatch ()**

This initializes or reset the stopwatch to 0.

Function (vba)StopWatch () As Long

Returns the number of milliseconds that has passed since the StopWatch was Reset or Started. The time is real milliseconds not **Time** or **Now**. This is very useful for measuring performance. Do not use DOEVENTS in sections being timed.

STRING PROCEDURES

▶ Function (vba)ParseSz (ByVal txt, ByVal lineno%) As String

Warning: String sent is REQUIRED to end with TWO \0\0 (i.e. chr\$(0)+Chr\$(0)). This is designed to handle API calls problems. For example, returning an array of LPSTR. This is also a dangerous function. It is recommended that you call using:

```
txt$=ParzeSz(FromAPI$+CHR$(0)+CHR$(0),5) 'Get 6th String in C array
```

Function (vba)Empty (ByVal txt\$) As Integer

Often strings are not empty but contains only CR,LF, TAB or Space. This function allows these 'empty' strings to be easily detected.

 **Function (vba)CountStr (ByVal txt\$, ByVal CountChar\$) As Integer**

Count the number of occurrences of a string on another string. Although this can be done by looping with Instr -- this is much faster.

 **Function (vba)NthRow (ByVal txt\$, ByVal nth%) As String**

VB uses 'Clips' of strings frequently (i.e. GRID), this allows a row to be manipulated easily by allowing a row to be extracted.

 **Function (vba)NthCol (ByVal txt\$, ByVal nth%) As String**

VB uses 'Clips' of strings frequently (i.e. GRID), this allows a column of the FIRST ROW to be manipulated easily by allowing it to be extracted.

 **Function (vba)Alltrim (ByVal txt\$) As String**

Returns the string stripped of left and right non-printing characters. Removes leading and trailing CR, LF, TABS and spaces (etc).

▶ Function (vba)About (byval key as long) as string

A registered user may receive a Key number by Email which will suppress the warning messages IF vbaAbout is called first with the key. Alternatively, a version may be sent by USMail which does not require the use of a Key.

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Quarterly

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