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**Visual Basic For Applications POWER DLL**  
**Bainbridge Knowledge Management Arts, Inc.**

This DLL uses certain unique characteristics of some VBA to allow the following function to appear as *Native* functions. Normally there is considerable overhead in doing API calls, 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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\$20.00 for the VBA Power Dll  
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Add \$5.00 for delivery by Postal Services.

### **Payment**

Payment must be made by  
cheque in US Dollars (drawn on a US Bank) mailed to  
BKMA Inc.,  
POBox 170  
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or by

Company Purchase Order or  
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\$5.00/Copy ... please specify update frequency:

- Monthly or each release version -- which ever occurs last
- Quarterly
- Yearly.

***This is sent as an Attachment to Internet Mail.***

This may be pre-paid or via a PO or Corporate Letter. Add \$5 per update for postage and handling if the update is to be sent by post.

### **Ghost Coders**

**BKMA** offers ghost coding services. If you need a function -- and are concerned solely with getting the working code (not C source) -- we will code and test the function for you. The flat rate per function is \$100 US -- we retain the rights to the source, and will do free support for 90 days. Our hope is to include this function in this or other DLL's.

BKMA is also available for serious Windows development.

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(\$5.00 per update, \$5.00 Post/Hand)

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