

TIME TO WIN

all updates are on http://www.geocities.com/SiliconValley/Way/7409/

This is the help file for 'TIME TO WIN' for VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT} and MSOffice 95.

TIME TO WIN for VB 4.0 (32-Bit) is COMPATIBLE with VB 5.0 and VB 5.0 CCE.

Normally, TIME TO WIN for VB 4.0 (32-Bit) is compatible with all softwares supporting VBA 5.0 (MSOffice 97, Visio, ...)

ANY REGISTERED USERS CAN ASK ME TO ADD SOME FUNCTIONNALITIES (non graphical routines).

Overview

<u>Current version</u> <u>Registration on CompuServe or on Internet</u>

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Other products

DESencryptFile, DESdecryptFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

DESencryptFile copy one file to an another file but with DES encryption. DESdecryptFile copy one file to an another file but with DES decryption.

Declare Syntax:

Declare Function cDESencryptFile Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, Key As String) As Long

Declare Function cDESdecryptFile Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, Key As String) As Long

Call Syntax:

```
test& = cDESencryptFile(FileIn, FileOut, Key)
test& = cDESdecryptFile(FileIn, FileOut, Key)
```

Where:

FileIn\$ is the source file.
FileOut\$ is the destination file.

Key is the key to use for encryption/decryption.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

If the returned code is a negative value, it take the following value:

```
Public Const CRYPTO_KEY_TOO_SMALL = -1
Public Const CRYPTO_CANT_INIT_KEY = -2
Public Const CRYPTO_CANT_INIT_BUFFER = -11
Public Const CRYPTO_CANT_OPEN_FILEIN = -21
Public Const CRYPTO_CANT_CREATE_FILEOUT = -22
Public Const CRYPTO_ERROR_READING_FILEIN = -31
Public Const CRYPTO_ERROR1_WRITING_FILEOUT = -41
Public Const CRYPTO_ERROR2_WRITING_FILEOUT = -42
Public Const CRYPTO_ERROR1_WRITING_LASTBYTE = -51
Public Const CRYPTO_ERROR2_WRITING_LASTBYTE = -52
Public Const CRYPTO_BAD_LASTBYTE = -61
```

Comments:

The Key is case sensitive.

The length of Text can be any size.

The length of Key must be greater or equal to 8 characters.

The encrypted file is always a multiple of 8 characters + 1 character.

Examples:

Dim Test As Long

```
Test = cDESencryptFile("c:\autoexec.bat", "c:\autoexec.tb1", "Time To Win")
Test = cDESdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win")
```

See also: Encryption

TIME TO WIN for VB 3.0 : TIME2WIN.DLL : 9.52 (08/21/1997)
TIME TO WIN for VB 4.0 (16-Bit) : T2WIN-16.DLL : 9.52 (08/21/1997)
TIME TO WIN for VB 4.0 (32-Bit) : T2WIN-32.DLL : 5.43 (05/21/1998)
TIME TO WIN for MSOffice 95 : T2WOFFIC.DLL : 2.02 (08/21/1996)

Select the following product :

TIME TO WIN for VB 3.0
TIME TO WIN for VB 4.0 (16-Bit)
TIME TO WIN for VB 4.0 (32-Bit)
TIME TO WIN for MSOffice 95

TIME TO WIN for VB 3.0: Installation

Demonstration version:

The files TIME2WIN.DLL and TIME2WIN.HLP should be copied in your WINDOWS\SYSTEM or WIN95\SYSTEM and/or WINNT\SYSTEM32 directory.

Registered version:

The files TIME2WIN.DLL, TIME2WIN.HLP should be copied in your WINDOWS\SYSTEM or WIN95\SYSTEM and/or WINNT\SYSTEM32 directory.

The file TIME2WIN.LIC should be copied in your WINDOWS or WIN95 directory.

Distribution note:

When you create and distribute applications that use 'TIME TO WIN' dynamic link library, you should install the file 'TIME2WIN.DLL' in the customer's Microsoft Windows \SYSTEM or \SYSTEM32 subdirectory. The Visual Basic Setup Kit included with the Professional VB product provides tools to help you write setup programs that install you applications correctly.

You are not allowed to distribute TIME2WIN.LIC file with any application that you distribute.

TIME TO WIN for VB 4.0 (16-Bit): Installation

Demonstration version:

The files T2WIN-16.DLL and T2WIN-16.HLP should be copied in your WINDOWS\SYSTEM or WIN95\SYSTEM and/or WINNT\SYSTEM32 directory.

Registered version:

The files T2WIN-16.DLL, T2WIN-16.HLP should be copied in your WINDOWS\SYSTEM or WIN95\SYSTEM and/or WINNT\SYSTEM32 directory.

The file T2WIN-16.LIC should be copied in your WINDOWS or WIN95 directory.

Distribution note:

When you create and distribute applications that use 'TIME TO WIN (16-Bit)' dynamic link library, you should install the file 'T2WIN-16.DLL' in the customer's Microsoft Windows \SYSTEM or \SYSTEM32 subdirectory. The Visual Basic Setup Kit included with the Professional VB product provides tools to help you write setup programs that install you applications correctly.

You are not allowed to distribute T2WIN-16.LIC file with any application that you distribute.

TIME TO WIN for VB 4.0 (32-Bit): Installation

Demonstration version:

The files T2WIN-32.DLL and T2WIN-32.HLP should be copied in your WIN95\SYSTEM and/or WINNT\SYSTEM32 directory.

Registered version:

The files T2WIN-32.DLL, T2WIN-32.HLP should be copied in your WIN95\SYSTEM and/or WINNT\SYSTEM32 directory.

The file T2WIN-32.REG should be fusionned in your REGISTRY.

Distribution note:

When you create and distribute applications that use 'TIME TO WIN (32-Bit)' dynamic link library, you should install the file 'T2WIN-32.DLL' in the customer's Microsoft Windows \SYSTEM or \SYSTEM32 subdirectory. The Visual Basic Setup Kit included with the Professional VB product provides tools to help you write setup programs that install you applications correctly.

You are not allowed to distribute T2WIN-32.REG file with any application that you distribute.

TIME TO WIN for MSOffice 95: Installation

Demonstration version:

The files T2WOFFIC.DLL and T2WOFFIC.HLP should be copied in your WINDOWS\SYSTEM or WIN95\SYSTEM and/or WINNT\SYSTEM32 directory.

Registered version:

The files T2WOFFIC.DLL, T2WOFFIC.HLP should be copied in your WINDOWS\SYSTEM or WIN95\SYSTEM and/or WINNT\SYSTEM32 directory.

The file T2WOFFIC.LIC should be copied in your WIN95 directory.

Distribution note:

You are not allowed to distribute T2WOFFIC.LIC file with any application that you distribute.

Technical support

Only registered users can receive support and update.

To receive support, you must specify your registration ID.

However, any report on any problem are the welcome.

The following information may be of help to you in streamlining your efforts to resolve any technical problems you may have with any version of TIME TO WIN Dynamic Link Library.

GPF?

If you are getting a GPF (General Protection Fault), write down the information that is displayed when the error occurs. Also, make a note of what your code was doing (in general terms.)

ISOLATE IT

Try to isolate the cause of the error. If at all possible, step through your code with F8 and F9. Try to find the one line of code that is causing the error.

SCALE IT DOWN

If at all possible, try to reproduce the problem in a small test program that you can send in. Send your test on CompuServe.

Update

You can download the update of all of my products on the following network:

On my homepage:

http://ourworld.compuserve.com/homepages/alpouda/homepage.htm

On CompuServe:

MSBASIC forum

On Internet:

T2WIN952.ZIP (ftp.winsite.com/pub/pc/win3/programr/vbasic OR

http://www.geocities.com/SiliconValley/Way/7409)

T2W16952.ZIP(ftp.winsite.com/pub/pc/win3/programr/vbasic OR

http://www.geocities.com/SiliconValley/Way/7409)

T2WIN-32.ZIP (ftp.winsite.com/pub/pc/win95/programr/vbasic OR

http://www.geocities.com/SiliconValley/Way/7409)

MCVBEHTP.ZIP (ftp.winsite.com/pub/pc/win95/programr/vbasic) MCSECURE.ZIP (ftp.winsite.com/pub/pc/win95/programr/vbasic)

CompuServe Mail:

Name: Michael RENARD CIS: 100042,3646

Internet: 100042.3646@compuserve.com

I'm on CompuServe one time a day.

License agreement

All versions of TIME TO WIN dynamic link library are not public domain software or free software.

All versions of TIME TO WIN dynamic link library are copyrighted, and all rights are reserved by its author: Michael Renard.

You are licensed to use this software on a restricted number of computers. You may copy the software to facilitate your use of it on as many computers as there are licensed users specified in the license file. Making copies for any other purpose violates international copyright laws.

You are not allowed to distribute the [T2WIN-32.REG] file with any application that you distribute.

Disclaimer:

This software is sold AS IS without warranty of any kind, either expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. The authors assume no liability for any alleged or actual damages arising from the use of this software. (Some states do not allow the exclusion of implied warranties, so the exclusion may not apply to you.)

Your use of this product indicates that you have read and agreed to these terms.

Distribution note

When you create and distribute applications that use a version of 'TIME TO WIN', you should install the [TIME TO WIN.DLL] in the customer's Microsoft Windows \SYSTEM or \SYSTEM32 subdirectory. The setup kit included with Visual Basic provides tools that help you write setup programs that install your applications correctly.

You are not allowed to distribute the [T2WIN-32.REG] file with any application that you distribute.

TIME TO WIN for VB 3.0 TIME TO WIN for VB 4.0 (16-Bit) TIME TO WIN for VB 4.0 (32-Bit) TIME TO WIN for MSOffice 95 : time2win.dll : t2win-16.dll

: t2win-32.dll, t2win32p.dll, t2w32pro.dll, t2w32exp.dll : t2woffic.dll

TIME TO WIN for VB 3.0 : TIME2WIN.LIC
TIME TO WIN for VB 4.0 (16-Bit) : T2WIN-16.LIC
TIME TO WIN for VB 4.0 (32-Bit) : T2WIN-32.REG
TIME TO WIN for MSOffice 95 : T2WOFFIC.LIC

Acknowledgement

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Thanks to Andreas Thoele for German language.

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For the following great developers:

Some routines have been writed by the following great developers (I've adapted their routines for VB 3.0/4.0/5.0 under Win3.1x/Win95/WinNT):

Special thanks to J. Kercheval, Michael M. Dodd, Ray Gardner, Bob Stout, Thad Smith.

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Special thanks to Andy Brown for adaptation of the U.S. Data Encryption Standard (DES) cipher in a Win3.1x DLL...

Special thanks to Andy Brown for adaptation of the International Data Encryption Algorithm (IDEA) cipher in a Win3.1x DLL.

Special thanks to Michael Paul Johnson for Diamond Encryption Algorithm. Andy Brown have adapted Diamond in a Win 3.1x DLL.

Special thanks to Michael Paul Johnson for RUBY Mark 5 Algorithm.

About DIAMOND and RUBY MARK 5 algorithm, you can reach Michael Paul Johnson at :

Internet e-mail: mpj@csn.net

Web site: http://www.csn.net/~mpj <- Get John (GLW)

Colorado Catacombs BBS : 303-772-1062

Special thanks to Haruhiko Okumura for Data Compression Algorithms of LARC and LHarc.

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Special thanks to Frank Pilhofer and Michael Newcomb for UUDeview Library. (UUDeview Library, (c) Frank Pilhofer and Michael Newcomb).

About *UUDeview Library*, you can find more informations on the UUDeview homepage at:

Web site : http://www.uni-frankfurt.de/~fp/uudeview/

Special thanks to Armand Turpel for algomath-library.

For registered users who ask me to add some new functions:

Guillermo Kunst for EnumPrinterJobs, Extract, ExtractIsolate, FStdIn, FStdOut, FStdErr.

Norm Zastre for 3DWeightAverage, FProcessAsciiFile, FGotoRecord, MaxNotX, MinNotX.

John Sinnott for EnumOpenFiles.

Tom A. King for RUBY Mark 5 encryption.

George Srank for SplitFile, CutFile, FileMergeExt.

Scott Hayes for GetRegistryExt, KillRegistryExt, cPutRegistryExt.

Gary W. Andrews for <u>GetFileDateTime</u>, c<u>SetFileDateTime</u>.

Morten Brun for FilesCopy.

Scott Hayes for FileForceCopy.

Oliver Nittel for ShortcutFileGetX, cShortcutFileSetX.

Pietro B. for LockKeyboard, cLockMouse.

William Joye for Mail encoder/decoder.

Mike Schuppe for SearchStr.

Doug Dimiceli for <u>FileSearchFromLine</u>, <u>FileSearchPatternFromLine</u>, <u>GetAllSettings</u>, <u>ArrayLookUp</u>, <u>EnumPrinters</u>, Printer. RunFile.

Bert Rozenberg for <u>FileScanHeader</u>, <u>FileScanHeaderForRecipients</u>, <u>FilePartAppend</u>, <u>FilePartCopy</u>, <u>WrapLine</u>, <u>TrashFile</u>.

Syd S. Miller for ShortcutCreate, ShortcutGetIconLocation, ShortcutSetIconLocation.

This help has been writed by using ForeHelp v1.04 from ForeFront, Inc.

Other products

Basis products:

1) TIME TO WIN (VB 4.0 (32-Bit), VB 5.0, VBA 5.0)

This product is a powerfull 32-Bit DLL with more than **913** routines for VB 4.0 (32-Bit), VB 5.0 and VBA 5.0 application.

You can download the full product (demo included) from the following site:

CompuServe : GO MSBASIC : select T2WIN-32.ZIP

Internet : ftp.winsite.com/pub/pc/win95/programr/vbasic/T2W32520.ZIP

: ftp.winsite.com/pub/pc/winNT/programr/vbasic/T2W32520.ZIP : http://www.geocities.com/SiliconValley/Way/7409/T2WIN-32.ZIP

You can register the full product (demo included) at the price of \$59.95 from the following site:

CompuServe : GO SWREG : select the product item #7516

Internet : use REGISTER.EXE in the ZIP'ed file : select TIME TO WIN (32-Bit)

2) TIME TO WIN (VB 3.0 or VB 4.0 (16-Bit))

This product is a powerfull 16-Bit DLL with more than **720** routines for VB 3.0 and VB 4.0 (16-Bit) application.

You can download the full product (demo included) from the following site :

CompuServe : GO MSBASIC : select T2WIN952.ZIP and T2W16952.ZIP Internet : ftp.winsite.com/pub/pc/win3/programr/vbasic/T2WIN952.ZIP

: http://www.geocities.com/SiliconValley/Way/7409/T2WIN952.ZIP : ftp.winsite.com/pub/pc/win3/programr/vbasic/T2W16952.ZIP : http://www.geocities.com/SiliconValley/Way/7409/T2W16952.ZIP

You can register the full product (demo included) at the price of \$43.00 from the following site:

CompuServe : GO SWREG : select the product item #4045

Internet : use REGISTER.EXE in the ZIP'ed file : select TIME TO WIN (16-Bit)

3) TIME TO WIN for MS Office 95

This product is a powerfull 32-Bit DLL with more than 380 routines for Access 95, Excel 95 and Word 95.

You can download the full product (demo included) from the following site :

CompuServe : GO MSBASIC : select T2WOFFIC.ZIP

Internet : ftp.winsite.com/pub/pc/win95/programr/vbasic/T2WOFFIC.ZIP

You can register the full product (demo included) at the price of \$25.00 from the following site:

CompuServe : GO SWREG : select the product item #10355

Internet : use REGISTER.EXE in the ZIP'ed file : select TIME TO WIN for MS Office 95

4) mcr VB/Error Handler - Tracer Profiler

This product is a powerfull product for adding/removing the management of errors and tracer-profiler for project under VB 3.0, VB 4.0 (16-Bit) and VB 4.0 (32-Bit).

You can download the full product (demo included) from the following site:

CompuServe : GO MSBASIC : select MCVBEHTP.ZIP

Internet : ftp.winsite.com/pub/pc/win95/programr/vbasic/MCVBEHTP.ZIP
You can register the full product (demo included) at the price of \$25.00 from the following site :

CompuServe : GO SWREG : select the product item #4380

Internet : use REGISTER.EXE in the ZIP'ed file : select MCVBEHTP for UNregistered user ...

5) MC SECURITY for VB 4.0 (16/32 Bit)

This product is a powerfull 16/32-Bit DLL with **28** routines for VB 4.0 (16/32 Bit), VB 5.0 and VBA 5.0 application.

You can download the full product (demo included) from the following site:

CompuServe : GO MSBASIC : select MCSECURE.ZIP

Internet: ftp.winsite.com/pub/pc/win95/programr/vbasic/MCSEC113.ZIP

You can register the full product (demo included) at the price of \$10.00 from the following site :

CompuServe : GO SWREG : select the product item #8536

Internet : use REGISTER.EXE in the ZIP'ed file : select MC-SECURITY (16/32-Bit)

6) MC STRING for VB 4.0 (32 Bit)

This product is a powerfull 32-Bit DLL with 74 routines for VB 4.0 (32 Bit), VB 5.0 and VBA 5.0 application.

You can download the full product (demo included) from the following site :

CompuServe : GO MSBASIC : select MCSTR-32.ZIP

Internet : ftp.winsite.com/pub/pc/win95/programr/vbasic/MCSTR-32.ZIP

You can register the full product (demo included) at the price of \$10.00 from the following site:

CompuServe : GO SWREG : select the product item #12012

Internet : use REGISTER.EXE in the ZIP'ed file : select MC-STRING (32-Bit)

7) MC DISK VB 4.0 (32 Bit)

This product is a powerfull 32-Bit DLL with **94** routines for VB 4.0 (32 Bit), VB 5.0 and VBA 5.0 application.

You can download the full product (demo included) from the following site:

CompuServe : GO MSBASIC : select MCDSK-32.ZIP

Internet : ftp.winsite.com/pub/pc/win95/programr/vbasic/MCDSK-32.ZIP

You can register the full product (demo included) at the price of \$10.00 from the following site :

CompuServe : GO SWREG : select the product item #12011

Internet : use REGISTER.EXE in the ZIP'ed file : select MC-DISK (32-Bit)

Update products:

1) Update TIME TO WIN (VB 3.0 or VB 4.0 (16-Bit)) -> TIME TO WIN 32-Bit (VB 4.0 (32-Bit), VB 5.0, VBA 5.0)

This product is an update for registered user of 'TIME TO WIN' which want register the 'TIME TO WIN (32-Bit)'.

You can download the full product (demo included) from the following site:

CompuServe : GO MSBASIC : select T2WIN-32.ZIP

Internet : ftp.winsite.com/pub/pc/win95/programr/vbasic/T2W32520.ZIP

: ftp.winsite.com/pub/pc/winNT/programr/vbasic/T2W32520.ZIP

: http://www.geocities.com/SiliconValley/Way/7409/T2WIN-32.ZIP

You can register the full product (demo included) at the price of \$34.95 from the following site:

CompuServe : GO SWREG : select the product item #7517

Internet : use REGISTER.EXE in the ZIP'ed file : select update TIME TO WIN (16-Bit) to TIME TO

WIN (32-Bit)

Special price for registered user:

1) If you're a registered user of 'TIME TO WIN' or 'TIME TO WIN (32-Bit)

You receive a special price for 'mcr VB/Error Handler - Tracer Profiler' under VB 3.0, VB 4.0 (16-Bit) and VB 4.0

(32-Bit).

You can download the full product (demo included) from the following site :

CompuServe : GO MSBASIC : select MCVBEHTP.ZIP

Internet : ftp.winsite.com/pub/pc/win95/programr/vbasic/MCVBEHTP.ZIP

You can register the full product (demo included) at the price of \$16.00 from the following site :

CompuServe : GO SWREG : select the product item #4379

Internet : use REGISTER.EXE in the ZIP'ed file : select MCVBEHTP for registered user ...

TIME TO WIN for VB 4.0 (16-Bit): New features

See also: Revision History

ComboFiles

Version	Comments	
9.59	no new features.	
9.52	Extracts a sub-string with a key in a string. Extracts a left/right part of a string from a key and a field separator. Extractlsolate	<u>Extract</u>
9.45	Initializes the Mail & News memory to perform encoding/decoding. MNInitialize Shutdowns the Mail & News memory (cleanup). MNShutdown Retrieves options. MNGetOption Sets options. MNSetOption Encodes a file in single-part or multi-part using "UUE", "Mime-Base64", "XXE". MNEncode Loads a file to be processed/decoded in the list of files. MNLoadInList Counts the number of files in the list of files. MNFirstInList Walks in the list of files. MNWalkInList Retrieves the subject of a file in the list of files. MNGetSubjectInList Retrieves the "mime identifier" (if any) of a file in the list of files. MNGetMimelDInList Retrieves the "mime content-type" (if any) of a file in the list of files. MNGetMimeContentInList Renames a file in the list of files. MNRenameInList Decodes a file from the list of files using "UUE", "Mime-Base64/PT/QP", "XXE", "BinHex". MNDecodeFromList Decletes all occurances of one string, in another string. Inserts a string (to the left) into a sub-string delimited by a separator in a given string. Pads a string to the left, to a know length. Pads a string to the left, to a know length.	MNCountInList DeleteSubString LSetIn RSetIn LFill RFill
	Searches for known strings, and replaces them with another string. StringReplace Compares a string with a set of strings delimited by a separator. MatchTable	
	Finds the position of the first occurrence of one string within another (like VB Instr function	n). <u>InStr</u>
9.44	Uuencode/uudecode a file (this is can be usefull for Internet). FileUUCP	
9.43	Copy one file to an another file with the same file attribute. <u>FileForceCopy</u>	
9.34	Load the contents of a directory in a standard list box. Load the contents of a directory in a standard combo box.	<u>ListFiles</u>

Search for file(s) and save the result in a file. **SearchFile** Search for file(s) with attribute and save the result in a file. SearchFileAttrib Search for dir(s) using pattern matching and show the result in a standard list box. ListSearchDir Search for file(s) and show the result in a standard list box. **ListSearchFile** Search for file(s) with attribute and show the result in a standard list box. **ListSearchFileAttrib** Search for dir(s) using pattern matching and show the result in a standard combo box. **ComboSearchDir** Search for file(s) and show the result in a standard combo box. ComboSearchFile Search for file(s) with attribute and show the result in a standard combo box. ComboSearchFileAttrib no new features. 9.23 9.25 no new features. 9.22 Disables/enables CTRL+ALT+DEL, ALT+TAB and CTRL+ESC under Win95. MultitasksKeys95 9.20 Convert a Single number into the Microsoft Binary Format representation. **MKSMBF** Convert a string containing the Microsoft Binary Format representation of a Single into a Single. **CVSMBF** Shift a Double array to Left and set the last element to a value. Shift an Integer array to Left and set the last element to a value. ShiftLeftI Shift a Long array to Left and set the last element to a value. ShiftLeftL Shift a Single array to Left and set the last element to a value. Shift a Double array to Right and set the first element to a value. **ShiftRightD** Shift an Integer array to Right and set the first element to a value. **ShiftRightI** Shift a Long array to Right and set the first element to a value. Shift a Single array to Right and set the first element to a value. **ShiftRightS** Sort a Type'd array which can contain: one or more elements of any data type, array, or a previously defined user-defined type. SortTypedArray 9.10 Merges all files in an array in one. FileMergeExt 9.08 Cut a file in two parts (creation of two files). **CutFile** Split a file into target files based on a part size. SplitFile Finding the maximum value in an array, not equal to a specified value. MaxNotXD, MaxNotXI, MaxNotXL, MaxNotXS Finding the minimum value in an array, not equal to a specified value. MinNotXD, MinNotXI, MinNotXL, MinNotXS 9.07 no new features. New command MB NO BUTTONS in LngBoxMsg and in LngMsgBox. 9.06 Norvegian language supported (LNG_NORVEGIAN) in LngBoxMsg and in LngMsgBox. Convert a Z9 string to an ascii string. FromZ9

SearchDir

Search for dir(s) and save the result in a file.

	Convert a ascii string to Z9 string. Return if a given bit in a given BYTE is Set or Reset. Return if a given bit in a given DOUBLE is Set or Reset. Return if a given bit in a given INTEGER is Set or Reset. Return if a given bit in a given LONG is Set or Reset. Return if a given bit in a given SINGLE is Set or Reset. Set a given bit in a given BYTE to Set state or Reset state. Set a given bit in a given DOUBLE to Set state or Reset state. Set a given bit in a given INTEGER to Set state or Reset state. Set a given bit in a given LONG to Set state or Reset state. Set a given bit in a given SINGLE to Set state or Reset state. Set a given bit in a given SINGLE to Set state or Reset state. Convert an integer value into a binary string. Convert a long value into a binary string. Calculate the mod-10 of the given string. Calculate the reverse mod-10 of the given string. Calculate the mod-1.3.7 of the given string. Calculate the reverse mod-1.3.7 of the given string. Calculate the reverse mod-1.3.7 of the given string. Calculate the reverse mod-1.3.7 of the given string.	GetBitB GetBitD GetBitL GetBitL GetBitL GetBitL GetBitS SetBitB SetBitD SetBitL SetBitL SetBitL SetBitL Mod10 Mod10 Mod10R Mod11 Mod11R Mod137
9.05	no new features.	
9.04	Encode a string with a password using the RUBY algorithm (7 modes). Decode a string with a password using the RUBY algorithm (7 modes). Copy one file to an another file but with RUBY algorithm (7 modes). RUBYencryptFile Copy one file to an another file but with RUBY algorithm (7 modes). RUBYdecryptFile	RUBYencrypt RUBYdecrypt
9.01	Compress a string into a compressed format using GZIP compression method. <u>GZIPStringCompress</u> Expand a compressed string into a normal format using GZIP compression method. <u>GZIPStringExpand</u>	
9.00	Compress a file into a compressed format using GZIP compression method. <u>GZIPFileCompress</u> Expand a compressed file into a normal format using GZIP compression method.	<u>GZIPFileExpand</u>
8.08	no new features.	
7.07	Conversion of a binary string into an integer variable. Conversion of a hexa string into an integer variable. Conversion of a hexa string into an integer variable. Conversion of a hexa string into a long variable. Access of method (by position) of OCX custom controls. ObjectMethodByPos Access of method (by name) of OCX custom controls. ObjectMethodByName Reads data in properties (by position) from OCX controls. ObjectGetPropertyByPos Reads data in properties (by name) from OCX controls. ObjectGetPropertyByName Writes data in properties (by position) in OCX controls. ObjectPutPropertyByPos Writes data in properties (by name) from OCX controls. ObjectPutPropertyByPos Writes data in properties (by name) from OCX controls. ObjectPutPropertyByName	<u>B2L</u> <u>H2l</u> <u>H2L</u>
7.00	Initial release of the 'TIME TO WIN (16-Bit)' Dynamic Link Library for Visual Basic 4.0 (16	-Bit Edition).

Select the following product :

TIME TO WIN for VB 3.0
TIME TO WIN for VB 4.0 (16-Bit)
TIME TO WIN for VB 4.0 (32-Bit), VB 5.0, VBA 5.0
TIME TO WIN for MSOffice 95

TIME TO WIN for VB 3.0 : New features

See also: Revision History

Version	Comments	
9.59	no new features.	
9.52	Extracts a sub-string with a key in a string. Extracts a left/right part of a string from a key and a field separator. ExtractIsolate	<u>Extract</u>
9.45	Initializes the Mail & News memory to perform encoding/decoding. MNInitialize Shutdowns the Mail & News memory (cleanup). MNShutdown Retrieves options. MNGetOption Sets options. MNSetOption Encodes a file in single-part or multi-part using "UUE", "Mime-Base64", "XXE". MNEncode Loads a file to be processed/decoded in the list of files. MNLoadInList Counts the number of files in the list of files. MNEirstInList Walks in the list of files. MNFirstInList Walks in the list of files. MNWalkInList Retrieves a pointer to the first file in the list of files. MNGetSubjectInList Retrieves the "mime identifier" (if any) of a file in the list of files. MNGetMimeIDInList Retrieves the "mime content-type" (if any) of a file in the list of files. MNGetMimeContentInList Renames a file in the list of files using "UUE", "Mime-Base64/PT/QP", "XXE", "BinHex". MNDecodeFromList Decodes a file from the list of files using "UUE", "Mime-Base64/PT/QP", "XXE", "BinHex". MNDecodeFromList Deletes all occurances of one string, in another string. Inserts a string (to the left) into a sub-string delimited by a separator in a given string. Inserts a string to the left, to a know length. Searches for known strings, and replaces them with another string. StringReplace Compares a string with a set of strings delimited by a separator. MatchTable Finds the position of the first occurrence of one string within another (like VB Instr function	DeleteSubString LSetIn RSetIn LFill RFill
9.44	no new features.	
9.43	Copy one file to an another file with the same file attribute. <u>FileForceCopy</u>	
9.34	Load the contents of a directory in a standard list box. Load the contents of a directory in a standard combo box. ComboFiles	<u>ListFiles</u>
	Search for dir(s) and save the result in a file.	SearchDir

Search for file(s) with attribute and save the result in a file. SearchFileAttrib Search for dir(s) using pattern matching and show the result in a standard list box. ListSearchDir Search for file(s) and show the result in a standard list box. **ListSearchFile** Search for file(s) with attribute and show the result in a standard list box. **ListSearchFileAttrib** Search for dir(s) using pattern matching and show the result in a standard combo box. ComboSearchDir Search for file(s) and show the result in a standard combo box. **ComboSearchFile** Search for file(s) with attribute and show the result in a standard combo box. ComboSearchFileAttrib 9.25 no new features. 9.23 no new features. 9.22 Disables/enables CTRL+ALT+DEL. ALT+TAB and CTRL+ESC under Win95. MultitasksKeys95 9.20 Convert a Single number into the Microsoft Binary Format representation. Convert a string containing the Microsoft Binary Format representation of a Single into a Single. **CVSMBF** Shift a Double/Integer/Long/Single array to Left and set the last element to a value. **ShiftLeftX** Shift a Double/Integer/Long/Single array to Right and set the first element to a value. **ShiftRightX** 9.10 Merges all files in an array in one. FileMergeExt 9.08 Cut a file in two parts (creation of two files). **CutFile** Split a file into target files based on a part size. SplitFile Finding the maximum value in an array, not equal to a specified value. MaxNotXD, MaxNotXI, MaxNotXL, MaxNotXS Finding the minimum value in an array, not equal to a specified value. MinNotXD, MinNotXI, MinNotXL, MinNotXS 9.07 no new features. 9.06 New command MB NO BUTTONS in LngBoxMsq and in LngMsqBox. Norvegian language supported (LNG NORVEGIAN) in LngBoxMsq and in LngMsqBox. Convert a Z9 string to an ascii string. FromZ9 Convert a ascii string to Z9 string. ToZ9 Return if a given bit in a given Byte/Double/Integer/Long/Single is Set or Reset. **GetBitX** Set a given bit in a given Byte/Double/Integer/Long/Single to Set state or Reset state. **SetBitX** Convert an integer value into a binary string. I2B Convert a long value into a binary string. L2B Calculate the mod-10 of the given string. Mod10 Calculate the reverse mod-10 of the given string. Mod10R Calculate the mod-11 of the given string. Mod11 Calculate the reverse mod-11 of the given string. Mod11R Calculate the mod-1.3.7 of the given string. Mod137 Calculate the reverse mod-1.3.7 of the given string. Mod137R

SearchFile

Search for file(s) and save the result in a file.

9.05

no new features.

9.04 Encode a string with a password using the RUBY algorithm (7 modes). **RUBYencrypt** Decode a string with a password using the RUBY algorithm (7 modes). RUBYdecrypt Copy one file to an another file but with RUBY algorithm (7 modes). RUBYencryptFile Copy one file to an another file but with RUBY algorithm (7 modes). **RUBYdecryptFile** 9.01 Compress a string into a compressed format using GZIP compression method. **GZIPStringCompress** Expand a compressed string into a normal format using GZIP compression method. **GZIPStringExpand** 9.00 Compress a file into a compressed format using GZIP compression method. **GZIPFileCompress** Expand a compressed file into a normal format using GZIP compression method. **GZIPFileExpand** 8.08 no new features. 7.01 Adds new functionnalities for language management by using only one file per language. c.x.CtlLanguage 7.00 no new features. 6.01 Implementation for CATALAN language: LNG CATALAN. Constants and Types declaration Implementation for POLISH language: LNG POLISH. Constants and Types declaration Counts a specific value in an Integer/Long/Single/Double array. cCountX Searchs a specific value in an Integer/Long/Single/Double array. cSearchX 6.00 Truncates a long path with filename. cTruncatePath Searchs and replace a string in a string (search can be case-sensitive or not). cStringSAR Initializes the random generator. cRndInit Returns a double random number between 0.0 and 1.0. c<u>Rnd</u> Returns an Integer/Long/Single/Double random number. cRndX 5.29 Returns a number in the form of a fraction. cFraction Spells money value with hundredth. cSpellMoney Creates or updates a file which contains the text (menu) for supporting a language. cSaveMnuLanguage Reads a file which contains the text (menu) for supporting a language. cReadMnuLanguage Logical size of files by file mask in a specified directory (with recursivity or not). cRcsFilesSize Physical size of files by file mask in a specified directory (with recursivity or not). cRcsFilesSizeOnDisk Slack percent for files by file mask in a specified directory (with recursivity or not). cRcsFilesSlack Reads all files from a specified directory into an array. cFilesInDirToArray Writes all files from a specified directory into a file on disk. cFilesInDirOnDisk Counts the total directories or files in a specified directory (with recursivity or not). cRcsCountFileDir Returns name, size, Int date, Int time, attribute of files in directory only in one call. cFilesInfoInDir 5.20 no new features.

5.10

Adds 6 Hatch Brush Pattern for 3DMeter.

Changes all chars in a char set by a new char set in a file (text or binary). cFileChangeChars

5.02 Adds a 3D Meter (rectangle, triangle, trapezium, ellipse, bar) from a Picture Box.

c3DMeter

5.00 Adds a 3D visibility to a VB standard control or VBX (custom colors).

cCtl3D c3D

Adds a 3D visibility to a VB standard control or VBX (fixed colors). Returns the Left, Top, Right, Bottom value of a control in Pixels.

cGetCtlRect

Returns the Left, Top, Right, Bottom value of a control in Twips.

cGetCtlRectTwips

Center a form on the screen.

cCenterWindow

Explode a window before show.

cShowWindow

Calculates a scalar (long) from a time.

cTimeToScalar

Decomposes a scalar into time parts.

cScalarToTime

4.57 Transfers the contents of an string array to a List Box.

Transfers the contents of an string array to a Combo Box.

c<u>ArrayToComboBox</u>

4.50 Create a Huge Array.

cHMACreate

Free a Huge Array.

cHMAFree

Read an element from a Huge Array.

cHMAGet

Read a type'd variable from a Huge Array.

cHMAGetType

Save an element to a Huge Array.

cHMAPut

Save a type'd variable to a Huge Array.

cHMAPutType

Clear a Huge Array (fill it with chr\$(0) or chr\$(32) (for string array)).

cHMAClear

Clear a single Sheet in a Huge Array (fill it with chr\$(0) or chr\$(32) (for string array)).

cHMAClearSheet

Clear a single Col on on one Sheet or on all sheets in a Huge Array (see above).

Clear a single Row on one Sheet or on all Sheets in a Huge Array (see above).

cHMAClearRow

Clear a single Col in a Huge Array with only one sheet.

cHMAsClearCol

Clear a single Row in a Huge Array with only one sheet.

cHMAsClearRow

Read an element from a Huge Array with only one sheet.

cHMAsGet

Read a type'd variable from a Huge Array with only one sheet.

cHMAsGetType

Save an element from a Huge Array with only one sheet.

cHMAsPut

Save a type'd variable from a Huge Array with only one sheet.

cHMAsPutType

Read an element from a Huge Array with only one sheet and one row.

cHMArGet

Read a type'd variable from a Huge Array with only one sheet and one row.

cHMArGetType

Save an element from a Huge Array with only one sheet and one row.

cHMArPut

Save a type'd variable from a Huge Array with only one sheet and one row.

c<u>HMArPutType</u>

cArrayToListBox

cHMAClearCol

Get/Put a Huge Array from/to a file on disk.

cHMAOnDisk

4.00 Adds a VB string into a Huge String.

cHugeStrAdd

Returns a pointer for the first char of a Huge String.

cHugeStrAddress

Appends a VB string into a Huge String.

c<u>HugeStrAppend</u>

Returns the number of block of 64,000 chars from a Huge String.

cHugeStrBlocks

Clears a Huge String.

cHugeStrClear

Creates a Huge String.

cHugeStrCreate

Free a Huge String (destroy it).

c<u>HugeStrFree</u>

Gets the Next Pointer of a Huge String.

cHugeStrGetNP

Gets the Write Pointer of a Huge String.

cHugeStrGetWP

Returns the length of data in a Huge String.

cHugeStrLength

Extracts a VB sub-string from a Huge String.

Reads the next part of a Huge String.

cHugeStrNext

Get/Put a Huge String from/to a file on disk.

cHugeStrOnDisk

Read a block of 64,000 chars or minder from a Huge String.

cHugeStrRead

Sets the Next Pointer of a Huge String.

cHugeStrSetNP

Sets the Write Pointer of a Huge String.

cHugeStrSetWP

Returns the full size of a Huge String.

cHugeStrSize

3.52 Increment the number of file handle (20 -> 80).

3.51 no new features.

3.50 Extracts a sub-string from the right of a given string.

Extracts the first/second part from the left of a given string.

cGetInPart

Extracts the first/second part from the right of a given string.

cGetInPartR

Returns the version number of 'TIME TO WIN'.

cGetVersion

3.00 Calculates the day of the week (ISO and non-ISO specification).

cDayOfWeek

Calculates the week of the year (ISO and non-ISO specification).

cWeekOfYear

Calculates the day of the year.

cDayOfYear

Calculates a Scalar (long) from a date.

cDateToScalar

Decomposes a Scalar into date parts.

cScalarToDate

Transfers the contents of a file to a List Box.

cFileToListBox

cHugeStrMid

cGetInR

Transfers the contents of a file to a Combo Box. cFileToComboBox

Performs some specials effects between two Picture Box.

cFXPicture

Auto-increments an integer variable.

Auto-increments a long variable.

Auto-decrements an integer variable.

Auto-decrements a long variable.

Adds two time string and return a time string.

cAddTwoTimes Create a new multiple big sized array on disk or use an existing big sized array on disk.

cMDACreate

Close a multiple big sized array and keep it or close a big sized array and destroy it.

cMDAClose

Read an element from a multiple big sized array on disk.

cMDAGet

Read a type'd variable from a multiple big sized array on disk.

cMDAGetType

Save an element to a multiple big sized array on disk.

Save a type'd variable to a multiple big sized array on disk.

cMDAPutType

Clear a multiple big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

cMDAClear

Clear a single Sheet in a multiple big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

cMDAClearSheet

Clear a single Col on on one Sheet or on all sheets in a multiple big sized array (see above).

cMDAClearCol

Clear a single Row on one Sheet or on all Sheets in a multiple big sized array (see above).

cMDAClearRow

Clear a single Col in a multiple big sized array with only one sheet.

cMDAsClearCol

Clear a single Row in a multiple big sized array with only one sheet.

cMDAsClearRow

Read an element from a multiple big sized array on disk with only one sheet.

c<u>MDAsGet</u>

Read a type'd variable from a multiple big sized array on disk with only one sheet.

cMDAsGetType

Save an element from a multiple big sized array on disk with only one sheet.

cMDAsPut

Save a type'd variable from a multiple big sized array on disk with only one sheet.

cMDAsPutType

Read an element from a multiple big sized array on disk with only one sheet and one row. cMDArGet Read a type'd variable from a multiple big sized array on disk with only one sheet and one row.

cMDArGetType

Save an element from a multiple big sized array on disk with only one sheet and one row. cMDArPut Save a type'd variable from a multiple big sized array on disk with only one sheet and one row.

cMDArPutType

2.05 Reads the Volume Label from a disk.

cDOSGetVolumeLabel

Creates/Changes/Deletes the Volume Label of a disk.

cDOSSetVolumeLabel

Gets information from a floppy disk (Format, Heads, Cylinders, Sectors).

cFloppyInfo

clncrl

cIncrL

cDecrl

cDecrL

cMDAPut

2.00 Converts the first letter of some words separated by a space or punctuation in upper letter case.

cProperName2

Reads the media ID (serial number, volume label, ...) from a disk.

cDOSGetMediaID

Changes the media ID (serial number, volume label, ...) to a disk.

c<u>DOSSetMediaID</u>

Compress a file.

cFileCompress

Expands a file compressed by cFileCompress. cFileExpand Compress a string. cStringCompress Expands a string compressed by cStringCompress. cStringExpand Fills an array by starting value and increment value. FillIncr Calculates the determinant of a square matrix. cMatrixDet Calculates the cofactor of an element in a square matrix. cMatrixCoFactor Calculates the minor of an element in a square matrix. cMatrixMinor Fills a square matrix. cMatrixFill Inverts a square matrix. cMatrixInv Creates a symmetrical Toeplitz square matrix. cMatrixSymToeplitz 1.60 2-D Geometry calculations (14 functions). <u>2-D</u> Geometry 3-D Geometry calculations (14 functions). 3-D <u>Geometry</u> Adds two square matrix. cMatrixAdd Compares two square matrix. cMatrixCompare Copy a square matrix. cMatrixCopy Multiply two square matrix. cMatrixMul Substract two square matrix. cMatrixSub Transpose a square matrix. c<u>MatrixTranspose</u> 1.52 Converts the first letter of each word separated by a space in a string to upper case. c<u>ProperName</u> Functions for calculating interest rate (12 functions). 1.50 Financial Performs the hash algorithm (MD5) to a specified string. 1.42 cHashMD5 Adds registration key management. cRegistrationKey Removes a serialization information (descriptions and number) from a serialized file. cSerialRmv Sorts an ASCII file or a BINARY file in ascending or descending order with case sensitive or not. cFileSort Computes the number of combinations of n items, taken m at a time. cCombination Converts an ASCII string into an EBCDIC string. cCnvASCIItoEBCDIC Converts an EBCDIC string into an ASCII string. cCnvEBCDICtoASCII Opens a file for I/O cFopen Closes an open stream. cFclose Reads a single character from a stream. cFgetc Writes a single character to a stream. cFputc Writes a line of characters to a stream. cFputs Reads a line of characters from a stream. c<u>Fgets</u> Writes an arbitrary number of characters to a stream. cFwrite Reads an arbitrary number of characters from a stream. cFread

Closes all files opened.

cFcloseall

Flushes buffered I/O to a particular stream to disk.

Flushes buffered I/O for all open streams to disk.

cFflushall

Tests for end-of-file on a stream. Tests for an error on a stream.

Resets the error indicator for a stream.

cFclearerr

Moves the file pointer to a specified location.

Gets the current position of a file pointer.

Moves the file pointer to the beginning of a file.

cFrewind

1.36 Arrange all desktop icons.

cArrangeDesktopIcons

Put/Get full variable string array (one dimension) on/from disk.

cArrayStringOnDisk

Put/Get full array (any dimension) on/from disk (very fast routine).

cArrayOnDisk

Extract a sub-string delimited by a separator's list in a given string.

cTokenIn

Align a string in left, center, right position

c<u>Align</u> c<u>Timer.x.</u>

cFseek

cFflush

cFeof

cFtell

cFerror

New timer for more accuracy (1 ms in place of 55 ms)

Increment the serialized number of a serialized file by a value (positive or negative).

cSerialInc

Check if a file is serialized.

c<u>lsSerial</u>

Put or Modify a serialization information (descriptions and number) to a file.

c<u>SerialPut</u>

Get a serialization information (descriptions and number) from a file.

cSerialGet

Walk thru the window's list.

cWalkThruWindow

UnHide all edit forms in the VB design environnement.

cUnHide All Edit Form

Hide all edit forms in the VB design environnement.

cHideAllEditForm

UnHide debug form in the VB design environnement.

cUnHideDebugForm

Hide debug form in the VB design environnement.

cHideDebugForm

Multiple AND 'InStr' in one call.

cAndToken, cAndTokenIn

Multiple OR 'InStr' in one call.

cOrToken, cOrTokenIn

1.33 Close all edit forms in the VB design environnement.

cCloseAllEditForm

Create a multiple directory in one call.

cMakeMultipleDir

1.30 Clear a single Sheet in a big sized array (fill it with chr\$(0) or chr\$(32) (for string array))

cDAClearSheet

Clear a single Col on on one Sheet or on all sheets in a big sized array (see above).

cDAClearCol

Clear a single Row on one Sheet or on all Sheets in a big sized array (see above).

cDAClearRow

Clear a single Col in a big sized array with only one sheet.

cDAsClearCol

Clear a single Row in a big sized array with only one sheet.

cDAsClearRow

Read an element from a big sized array on disk with only one sheet.

cDAsGet

Read a type'd variable from a big sized array on disk with only one sheet.

cDAsGetType

Save an element from a big sized array on disk with only one sheet.

Save a type'd variable from a big sized array on disk with only one sheet.

Read an element from a big sized array on disk with only one sheet and one row.

Read a type'd variable from a big sized array on disk with only one sheet and one row.

cDArGetType

Save an element from a big sized array on disk with only one sheet and one row.

Save a type'd variable from a big sized array on disk with only one sheet and one row.

cDArPutType

1.28 Merge two files in one.

cFileMerge

Search and replace a string in a file (search can be case-sensitive or not).

cFileSearchAndReplace

Search a string in a file (search is case-sensitive or not).

cFileSearch

Count occurence of a string in a file (search can be case-sensitive or not).

cFileSearchCount

Check the specified ISBN (International Standard Book Numbers).

Extend the use of pattern matching with [..], [!..] constructs and hexa.

cPatternExtMatch

Convert a string into a morse string.

cMorse

Kill a group of files even if one or more file are read-only file in the directory and all sub-dirs.

cKillDirFilesAll

Kill a sub-directory and its associated directories.

cKillDirs

Base conversion between two radixs.

cBaseConversion

Count lines, words and chars in a file.

cFileStatistics

Create a new big sized array on disk or use an existing big sized array on disk.

cDACreate

Close an big sized array and keep it or close a big sized array and destroy it.

cDAClose

Read an element from a big sized array on disk.

Read a type'd variable from a big sized array on disk.

cDAGetType

Save an element to a big sized array on disk.

cDAPut

Save a type'd variable to a big sized array on disk.

cDAPutType

Clear a big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

1.22 Modification of a system menu in one call (6 different languages)

cLngSysMenu

1.21 Multi-Language Message Box (fully replacement of the standard sub MsgBox)

cLnqBoxMsq

Multi-Language Message Box (fully replacement of the standard function MsgBox)

cLngMsgBox

Multi-Language InputBox (fully replacement of the standard function InputBox\$)

cLnqlnpBox

Convert a partial path stored in a path to a fully qualified path.

Make a full qualified path composed of a drive letter, directory, filename, extension

cMakePath

Mix all chars in a given string in random position.

cMixChars

Kill a file even if the file is a read-only file.

cKillFileAll

cDAsPut

clsISBN

cDAGet

cDArGet cDArPut

Kill a group of file even if one or more file are read-only file.

cKillFilesAll

Count the total number of lines in an ASCII file.

cFileLineCount

Convert an ASCII file to a file with lower case char.

cFileToLower

Convert an ASCII file to a file with upper case char.

cFileToUpper

Operation on big numbers (big double)

cBig.x.

Convert a value (in the form of a string) into a big double representation (for use with cBig.x.)

cMKN

Operation on big numbers (in the form of a string)

cBigNum

1.14 Compare one file to another file (attribute, contents, size, time)

cCmpFile.x.

Copy a file to an another file

cFileCopy

Copy a file to an another file but with filtering some chars

cFileFilter

Copy a file to an another file but with filtering chars not present in the filter

cFileFilterNot

Copy a file to an another file but with encryption

cFileEncrypt

Copy a file to an another file but with decryption

cFileDecrypt

Copy a file to an another file but with compressing spaces into tab

cFileCompressTab

Copy a file to an another file but with expanding tab into spaces

cFileExpandTab

Split a full path breaks into its four components.

cSplitPath

Check if the name of a file is valid

c<u>lsFilenameValid</u>

1.07 Implementation for some languages: French, Dutch, German, English, Italian, Spanish.

Constants and Types declaration

Full implementation for extracting the day name and the month name in different language.

cGet.x.Day, cGet.x.Month

Date and time in a normalized string in different language from a language number

cGetAscTime

Cluster size on a specified disk.

cGetDiskClusterSize

Physical size of files by file mask on a disk.

cFilesSizeOnDisk

Slack percent for files by file mask on a disk.

c<u>FilesSlack</u>

State (enabled or disabled) of a form.

clsFormEnabled

Full class name of a specified control.

cGetClassName

Save/Read language information from a form

c.x.CtlLanguage

1.00 Initial release of the 'TIME TO WIN' dynamic link library.

TIME TO WIN for VB 4.0 (32-Bit), VB 5.0 and VBA 5.0 : New features

See also: Revision History

Version Comments

5.43 Compress a string into a compressed format using GZIP compression method.

GZIPStringCompress2

Expand a compressed string into a normal format using GZIP compression method.

GZIPStringExpand2

5.34 Creates a shortcut from a specified file.

ShortcutCreate

Retrieves the icon location from a shortcut file (*.lnk).

ShortcutFileGetIconLocation

Modifies the icon location in a shortcut file (*.lnk).

ShortcutFileSetIconLocation

Opens a specified executable or document file.

RunFile

Enumerates all printers (data returned are description, printer name, comment).

EnumPrinters1

Enumerates all printers (data returned are for remote printers).

EnumPrinters2

Enumerates all printers (data returned are printer name, port name).

EnumPrinters5

Sets the default printer.

SetPrinterDefault

5.25 Retrieves country-specific dialing information from the Windows Telephony list of countries.

RasGetCountryInfo

Gets the number of copies of a printer.

GetPrinterCopies

Gets the default source of a printer.

GetPrinterDefaultSource

Gets the dither type of pictures of a printer.

GetPrinterDitherType

Gets the paper orientation of a printer.

<u>GetPrinterOrientation</u>

Gets the paper size of a printer.

<u>GetPrinterPaper</u>

Gets the quality for a printer.

GetPrinterQuality

Sets the number of copies for a printer.

SetPrinterCopies

Sets the default source for a printer.

<u>SetPrinterDefaultSource</u>

Sets the dither type of pictures for a printer.

SetPrinterDitherType

Sets the paper orientation for a printer.

<u>SetPrinterOrientation</u>

Sets the quality for a printer.

SetPrinterQuality

Sends a file to the trash with persistance and confirmation.

TrashFile

Retrieves the short path form of a specified input path.

GetShortPathName

Wraps a file in multiple lines with a maximum length by line.

FileWrapLine

Increasing from 7 keys to 10 keys to Sort a Type'd array.

SortTypedArray

Converts an integer value into a binary string (custom chars).

12Bext

Converts a long value into a binary string (custom chars).

L2Bext

5.20 Searchs an element in a two-dimensionnal string array and returns value in the second dimension.

<u>ArrayLookUp</u>

Returns a list of key settings and their respective values from an application's entry in the registry.

GetAllSettings

Wraps a line in multiple lines with a maximum length by line.

WrapLine

Appends part of one file to another file starting at or until Offset.

FilePartAppend

Copies part of one file to another file starting at or until Offset.

FilePartCopy

Checks if the system uses Win95 OSR2 or not.

IsWin95OSR2

Rounds a number with a precision.

Rounds a number to the nearest value.

RoundNearest

Retrieves informations about the specified key in the Windows registry.

RegistryKeyInfo

Searchs a string in a HEADER file starting at a certain line number

<u>FileScanHeader</u>

Searchs a string (recipients like "to: ", "cc: ", ...) in a given HEADER file starting at a certain line number.

FileScanHeaderForRecipients

Searchs a pattern string in a given TEXT file starting at a certain line number.

FileSearchPatternFromLine

Verifies if the CAPS LOCK key is On.

IsCapsLockOn

Verifies if the INSERT key is On.

<u>IsInsertOn</u>

Verifies if the NUM LOCK key is On.

IsNumLockOn

Verifies if the SCROLL LOCK key is On.

IsScrollLockOn

Sets the CAPS LOCK key On or Off.

SetCapsLock

Sets the INSERT key On or Off.

<u>SetInsert</u>

Sets the NUM LOCK key On or Off.

SetNumLock

Sets the SCROLL LOCK key On or Off.

<u>SetScrollLock</u>

Swedish language supported (LNG SWEDISH).

5.11 Searchs a string in a given TEXT file starting at a certain line number.

FileSearchFromLine

Counts the total number of lines (maximum 32768 chars per line) in an ASCII file.

FileLineCount2

Returns the Greatest Common Divisor of two numbers.

<u>GreatCommonDivisor</u>

Rotates the digits of a number, x times, in base 10.

Rotate

Sorts the digits of a number.

SortDigits

Returns the sum of the digits of a number.

SumDigits

Returns the alternating sum of the digits of a number.

SumDigitsAlt

Round

Returns the sum of all possible divisors of a number, number not included.

SumDivisors

Checks if a number is a prime number.

IsPrime

5.09 Searchs a string array for a given string.

SearchStr

Returns the height of the printer in inch.

PrinterHeight

Returns the left offset of the printer in inch (begin of the printable area).

PrinterOffsetLeft

Returns the top offset of the printer in inch (begin of the printable area).

PrinterOffsetTop

Returns the height of the printer in inch.

PrinterWidth

5.02 Creates a gradient (8 effects) on a control/form which can accept .hDC

Gradient

5.01 Replacement of cCVx(MID\$(string, offset, length)).

GetCVB GetCVC GetCVD GetCVI GetCVL GetCVS

Replacement of Mid\$(string, offset, length) = Value.

PutMKB PutMKC PutMKD PutMKI PutMKL PutMKS

Replacement of Mid\$(string, offset, length) = Value for a field in a recordset.

PutMKBs PutMKCs PutMKDs PutMKIs PutMKLs PutMKSs

5.00 Retrieves the encoded address of the network adapter (MAC address).

<u>GetNetAdapterMacAddress</u>

Retrieves the logical address of a physical LAN adapter.

<u>GetNetAdapterNumber</u>

Retrieves the number of LAN adapter (number of network card).

<u>GetNetNumberOfAdapter</u>

Returns the seconds elapsed since midnight.

ExtCurrentTime

4.52 Identifies the build number of the operating system.

GetOSBuildNumber

Provides arbitrary additional information about the operating system.

GetOSCSDVersion

Identifies the major version number of the operating system.

GetOSMajorVersion

Identifies the minor version number of the operating system.

GetOSMinorVersion

Identifies the version number of the operating system (major.minor version).

GetOSVersion

Identifies the operating system platform in a numerical format.

GetOSPlatformId

Identifies the operating system platform in a readable format (string).

GetOsPlatformName

Retrieves the current default user name or the user name used to establish a network connection.

<u>GetNetUser</u>

Set a given bit (real bit position) in a given BYTE to Set state or Reset state.

SetBitB2

Set a given bit (real bit position) in a given INTEGER to Set state or Reset state.

SetBitl2

Set a given bit (real bit position) in a given LONG to Set state or Reset state.

SetBitL2

Returns if a given bit (real bit position) in a given BYTE is Set or Reset.

GetBitB2

Returns if a given bit (real bit position) in a given INTEGER is Set or Reset.

GetBitI2

Returns if a given bit (real bit position) in a given LONG is Set or Reset.

4.43 Removes duplicate values in a Double array (one and two dimensions).

RmvDupD

Removes duplicate values in an Integer array (one and two dimensions).

RmvDupl

Removes duplicate values in a Long array (one and two dimensions).

RmvDupL

Removes duplicate values in a Single array (one and two dimensions).

RmvDupS

Hides or shows the tray bar.

TrayBar

Extracts a sub-string with a key in a string.

Extract

Extracts a left/right part of a string from a key and a field separator.

ExtractIsolate

Returns the stream of the standard input.

FStdIn

Returns the stream of the standard output.

FStdOut

Returns the stream of the standard error.

FStdErr

4.34 Initializes the Mail & News memory to perform encoding/decoding.

MNInitialize

Shutdowns the Mail & News memory (cleanup).

MNShutdown

Retrieves options.

MNGetOption

Sets options.

MNSetOption

Encodes a file in single-part or multi-part using "UUE", "Mime-Base64", "XXE".

MNEncode

Loads a file to be processed/decoded in the list of files.

MNLoadInList

Counts the number of files in the list of files.

MNCountInList

Retrieves a pointer to the first file in the list of files.

MNFirstInList

Walks in the list of files.

MNWalkInList

Retrieves the subject of a file in the list of files.

MNGetSubjectInList

Retrieves the "mime identifier" (if any) of a file in the list of files.

MNGetMimeIDInList

Retrieves the "mime content-type" (if any) of a file in the list of files.

MNGetMimeContentInList

Renames a file in the list of files.

MNRenameInList

Decodes a file from the list of files using "UUE", "Mime-Base64/PT/QP", "XXE", "BinHex".

MNDecodeFromList

Deletes all occurances of one string, in another string.

DeleteSubString

Inserts a string (to the left) into a sub-string delimited by a separator in a given string.

<u>LSetIn</u>

Inserts a string (to the right) into a sub-string delimited by a separator in a given string.

<u>RSetIn</u>

Pads a string to the left, to a know length.

<u>LFill</u>

Pads a string to the left, to a know length.

<u>RFill</u>

Searches for known strings, and replaces them with another string. **StringReplace** Compares a string with a set of strings delimited by a separator. MatchTable Finds the position of the first occurrence of one string within another (like VB Instr function). InStr Adds two complex. CpxAdd Substracts two complex. **CpxSub** Multiplies two complex. **CpxMul** Divides two complex. <u>CpxDiv</u> Computes the conjugue of a complex. **CpxConjugue** Computes the modulus of a complex. **CpxModulus** Computes the argument of a complex. **CpxArgument** Computes the power N of a complex. CpxPowerN Computes the square root of a complex. **CpxSqrt** Computes the root N of a double number. **RootN** 4.28 no new features. 4.25 Now, there is a new little dll, called T2W32MPT.DLL, which WORK ONLY under Windows 95 and handle: cModule, cProcess and cThread. Locks/unlocks the keyboard for any applications. LockKeyboard Locks/unlocks the mouse (any events : left, middle and right click) for any applications. **LockMouse** Now, there is a version of TIME TO WIN 32-Bit for Pentium Pro: T2W32PRO.DLL 4.21 Retrieves the argument list from a shortcut file.__ **ShortcutFileGetArguments** Retrieves the description from a shortcut file. ShortcutFileGetDescription Retrieves the path from a shortcut file. **ShortcutFileGetPath** Retrieves the path (in format 8.3) from a shortcut file. ShortcutFileGetPath83 Retrieves the working directory from a shortcut file. **ShortcutFileGetWorkingDir** Generic function to retrieve the above parameter from a shortcut file. **ShortcutFileGetInfo** Modifies the argument list in a shortcut file. **ShortcutFileSetArguments** Modifies the description in a shortcut file. **ShortcutFileSetDescription** Modifies the path in a shortcut file. ShortcutFileSetPath Modifies the working directory in a shortcut file. ShortcutFileSetWorkingDir Generic function to modify the above parameter in a shortcut file. **ShortcutFileSetInfo** Copy one file to an another file with the same file attribute. **FileForceCopy**

4.16 Search for file(s) with attribute and save the result in a file.

SearchFileAttrib

Search for file(s) with attribute and show the result in a standard list box.

ListSearchFileAttrib

Search for file(s) with attribute and show the result in a standard combo box.

ComboSearchFileAttrib

- 4.12 no new features.
- no new features. 4.10
- 4.04 Disables/enables CTRL+ALT+DEL, ALT+TAB and CTRL+ESC under Win95.

MultitasksKeys

Compute a Long from all date-hour parts.

DateHourToLong

Decompose a Long date-hour into these components.

LongToDateHour

Convert a Single number into the Microsoft Binary Format representation.

MKSMBF

Convert a string containing the Microsoft Binary Format representation of a Single into a Single.

CVSMBF

4.03 Search for dir(s) and save the result in a file.

SearchDir

Search for dir(s) using pattern matching and show the result in a standard list box.

ListSearchDir

Search for dir(s) using pattern matching and show the result in a standard combo box.

ComboSearchDir

Perform conversion between date, time, hour, minute, hundred.

Calculates an Integer from a date.

DateToInt

Decomposes an Integer into date parts.

IntToDate

Move files from one directory to an another directory/disk.

FilesMove

Shift a Byte array to Left and set the last element to a value.

Shift a Double array to Left and set the last element to a value.

ShiftLeftD

Shift an Integer array to Left and set the last element to a value. ShiftLeftI

Shift a Long array to Left and set the last element to a value.

Shift a Single array to Left and set the last element to a value.

ShiftLeftS

Shift a Byte array to Right and set the first element to a value.

ShiftRightB

Shift a Double array to Right and set the first element to a value.

ShiftRightD

Shift an Integer array to Right and set the first element to a value.

ShiftRightI

Shift a Long array to Right and set the first element to a value.

ShiftRightL

Shift a Single array to Right and set the first element to a value.

ShiftRightS

4.00 Sort a Type'd array which can contain:

one or more elements of any data type, array, or a previously defined user-defined type.___

SortTypedArray

3.50 Copy files from one directory to an another directory/disk.

FilesCopy

Convert

Search if a given pattern can be found is a given string (case-sensitive or not).

PatternMatchS

Search if a given pattern can be found is a given string (case-sensitive or not).

PatternExtMatchS

3.40 Merges all files in an array in one.

FileMergeExt

Retrieve the EXPLORER (95/NT4.0x) display name of a file.

<u>GetFileDisplayName</u>

Retrieve the EXPLORER (95/NT4.0x) type name of a file.

GetFileTypeName

Adds a document to the shell's list of recently used documents.

ExplorerAddToRecentDocs

Clears all documents from the shell's list of recently used documents.

ExplorerClearAllRecentDocs

3.30 Returns a key setting value from an application's Windows registry entry for any key handle.

GetRegistryExt

Saves or creates an application entry in the Windows registry entry for any key handle.

PutRegistryExt

Deletes a section or key setting from the Windows registry entry for any key handle.

KillRegistryExt

Retrieve in one routine all date & time informations (creation, last access, last write) for a file.

GetFileDateTime

Set in one routine all date & time informations (creation, last access, last write) for a file.

SetFileDateTime

3.22 no new features.

3.20 Finding the maximum value in an array, not equal to a specified value.

MaxNotXD, MaxNotXI, MaxNotXL, MaxNotXS

Finding the minimum value in an array, not equal to a specified value.

MinNotXD, MinNotXI, MinNotXL, MinNotXS

Cut a file in two parts (creation of two files).

<u>CutFile</u>

Split a file into target files based on a part size.

<u>SplitFile</u>

Insert different block of char in a given string separated by '~' (It can handle empty insert string).

InsertBlocksExt

3.10 Display a bitmap as splash screen.

DisplaySplash

Destroy a bitmap (splash screen) displayed by DisplaySplash.

DestroySplash

3.07 no new features.

3.06 New command MB_NO_BUTTONS in LngBoxMsg and in LngMsgBox.

Norvegian language supported (LNG NORVEGIAN) in LngBoxMsg and in LngMsgBox.

Convert a Z9 string to an ascii string.

FromZ9

Convert a ascii string to Z9 string.

ToZ9

Return if a given bit in a given BYTE is Set or Reset.

GetBitB

Return if a given bit in a given DOUBLE is Set or Reset.

GetBitD

Return if a given bit in a given INTEGER is Set or Reset.

GetBitl

Return if a given bit in a given LONG is Set or Reset.

GetBitL

Return if a given bit in a given SINGLE is Set or Reset.

GetBitS

Set a given bit in a given BYTE to Set state or Reset state.

SetBitB

Set a given bit in a given DOUBLE to Set state or Reset state.

SetBitD

Set a given bit in a given INTEGER to Set state or Reset state.

SetBit

Set a given bit in a given LONG to Set state or Reset state.

SetRitI

Set a given bit in a given SINGLE to Set state or Reset state.

SetBitS

Convert an integer value into a binary string.

12E

Convert a long value into a binary string.

1 2F

Calculate the mod-10 of the given string.

Mod₁₀

Calculate the reverse mod-10 of the given string.

Mod10R

Calculate the mod-11 of the given string.

Mod11

Calculate the reverse mod-11 of the given string.

Mod11R

Calculate the mod-1.3.7 of the given string.

Mod137

Calculate the reverse mod-1.3.7 of the given string.

Mod137R

3.05 no new features.

3.04 Encode a string with a password using the RUBY algorithm (7 modes).

RUBYencrypt

Decode a string with a password using the RUBY algorithm (7 modes).

RUBYdecrypt

Copy one file to an another file but with RUBY algorithm (7 modes).

RUBYencryptFile

Copy one file to an another file but with RUBY algorithm (7 modes).

RUBYdecryptFile

Encode a string with a password using the Diamond Encryption Algorithm (4 modes).

DIAMONDencrypt

Decode a string with a password using the Diamond Encryption Algorithm (4 modes).

DIAMONDdecrypt

Copy one file to an another file but with Diamond Encryption Algorithm (4 modes).

DIAMONDencryptFile

Copy one file to an another file but with Diamond Encryption Algorithm (4 modes).

<u>DIAMONDecryptFile</u>

Copy one file to an another file but with U.S. Data Encryption Standard encryption.

DESencryptFile

Copy one file to an another file but with U.S. Data Encryption Standard decryption.

DESdecryptFile

Copy one file to an another file but with the International Data Encryption Algorithm encryption.

IDEAencryptFile

Copy one file to an another file but with the International Data Encryption Algorithm decryption.

IDEAdecryptFile

3.03 Compress a file into a compressed format using ASH arithmetic compression.

ASHFileCompress

Expand a compressed file into a normal format using ASH arithmetic compression.

ASHFileExpand

3.02 Compress a string into a compressed format using GZIP compression method.

GZIPStringCompress

Expand a compressed string into a normal format using GZIP compression method.

GZIPStringExpand

3.01 Compress a file into a compressed format using GZIP compression method.

GZIPFileCompress

Expand a compressed file into a normal format using GZIP compression method.

GZIPFileExpand

3.00 Encode a string with a password using the U.S. Data Encryption Standard cipher.

DESencrypt

Decode a string with a password using the U.S. Data Encryption Standard cipher.

DESdecrypt

Encode a string with a password using the International Data Encryption Algorithm cipher.

IDEAencrypt

Decode a string with a password using the International Data Encryption Algorithm cipher.

IDEAdecrypt

Compress a file into a compressed format using arithmetic compression.

LZARIcompress

Expand a compressed file into a normal format using arithmetic compression.

LZARIexpand

2.52 Enumerate all open files and/or all unmovable open files.

EnumOpenFiles

- 2.51 Now, T2WIN-32.DLL can be registered directly by using the Register button. This method is usefully for Internet user.
- 2.50 Now, T2WIN-32.DLL is compatible with Windows NT 3.51.

New help file T2WINALL.HLP (this file).

2.10 Reads the offset of each line from an ASCII file (CR/LF line terminated) in an array.

FProcessAsciiFile

Moves the file pointer to the beginning of the specified line in an ASCII file (CR/LF line terminated).

FGotoRecord

Calculate the z value of an additional point from four points.

3DWeightAverage

2.00 Enumerate all pendings jobs on a printer.

EnumPrinterJobs

1.60 TileBitmapOnWindow tile a bitmap (DDB or DIB format) on a window.

TileBitmapOnWindow

1.42 Save the screen (entire desktop) in a file (DIB format).

DIBSaveScreen

Save a window in a file (DIB format).

DIBSaveWindow

Install a hook keyboard to save the screen or the active window in a file (DIB format).

InstallHookKeyboard

1.33 Display an icon for an application in the tray of the task bar.

<u>TaskBarAddIcon</u>

Delete the tray icon from an application in the task bar.

<u>TaskBarDeleteIcon</u>

Modify an icon for an application in the tray of the task bar.

TaskBarModifyIcon

1.24 Reads the media ID (serial number, volume label, ...) from a disk.

<u>DOSGetMediaID</u>

Changes the media ID (serial number, volume label, ...) to a disk.

DOSSetMediaID

1.20 Returns a key setting value from an application's Windows registry entry.

Saves or creates an application entry in the Windows registry entry.

PutRegistry

Deletes a section or key setting from the Windows registry entry.

KillRegistry

1.11 no new features.

1.10 no new features.

1.06 Search for file(s) and save the result in a file.

SearchFile

Search for file(s) and show the result in a standard list box.

ListSearchFile

Search for file(s) and show the result in a standard combo box.

ComboSearchFile

Crypt a file with password.

FileCrypt

Crypt a string with password.

Crypt

Calculate a registration key (method 1).

RegistrationKey Calculate a registration key (method 2).

RegistrationKey2

Calculate a registration key (method 3).

RegistrationKey3

Perform a file copy and show a progress bar in a standard control or form.

Perform a file copy and show a dialog box with progress bar on desktop.

DBFileCopy

UUencode/UUdecode a file.

FileUUCP

1.02 Set tab spacing in a standard list box.

ListSetTabs

Load the contents of a directory in a standard list box.

Load the contents of a directory in a standard combo box.

ComboFiles

1.00 Initial release of the 'TIME TO WIN (32-Bit)' Dynamic Link Library for Visual Basic 4.0 (32-Bit Edition under Windows 95/NT).

ListFiles

TIME TO WIN for MSOffice 95: New features

See also: Revision History

Version Comments

2.02 New command MB NO BUTTONS in LngBoxMsg and in LngMsgBox.

Norvegian language supported (LNG_NORVEGIAN) in LngBoxMsg and in LngMsgBox.

Convert a Z9 string to an ascii string.

FromZ9

Convert a ascii string to Z9 string.

ToZ9

Return if a given bit in a given BYTE is Set or Reset.

GetBitE

Return if a given bit in a given DOUBLE is Set or Reset.

<u>GetBitD</u>

Return if a given bit in a given INTEGER is Set or Reset.

<u>GetBitl</u>

Return if a given bit in a given LONG is Set or Reset.

GetBitL

Return if a given bit in a given SINGLE is Set or Reset.

<u>GetBitS</u>

Set a given bit in a given BYTE to Set state or Reset state.

<u>SetBitE</u>

Set a given bit in a given DOUBLE to Set state or Reset state.

SetBitD

Set a given bit in a given INTEGER to Set state or Reset state.

SetBitl

Set a given bit in a given LONG to Set state or Reset state.

SetBitL

Set a given bit in a given SINGLE to Set state or Reset state.

SetBitS

Convert an integer value into a binary string.

<u>12B</u>

Convert a long value into a binary string.

L₂B

Calculate the mod-10 of the given string.

Mod₁₀

Calculate the reverse mod-10 of the given string.

Mod10R

Calculate the mod-11 of the given string.

Mod11

Calculate the reverse mod-11 of the given string.

Mod11R

Calculate the mod-1.3.7 of the given string.

Mod137

Calculate the reverse mod-1.3.7 of the given string.

Mod137R

2.00 Encode a string with a password using the RUBY algorithm (7 modes).

RUBYencrypt

Decode a string with a password using the RUBY algorithm (7 modes).

RUBYdecrypt

Copy one file to an another file but with RUBY algorithm (7 modes).

RUBYencryptFile

Copy one file to an another file but with RUBY algorithm (7 modes).

RUBYdecryptFile

Compress a string into a compressed format using GZIP compression method.

GZIPStringCompress

Expand a compressed string into a normal format using GZIP compression method.

GZIPStringExpand
Compress a file into a compressed format using GZIP compression method.
GZIPFileCompress
Expand a compressed file into a normal format using GZIP compression method.
GZIPFileExpand

1.00 Initial release of the 'TIME TO WIN for MSOffice 95' Dynamic Link Library.

TIME TO WIN for VB 3.0 : Revision history

See also: New Features

Version	Comments Comments	
9.59	Includes new version of ZLIB (v1.12). Correction in <u>PutIni</u> to handle the deleting of a section (szItem = "") or an item (szDefaut = ""). Corrects a problem (buffer initialization, causes a GPF in compiled program) with <u>StringSAR</u> . Modifies the buffer for uncompressed string in <u>GZIPStringExpand</u> .	
9.52	no revision.	
9.45	Correction of a GPF in <u>FileSearchAndReplace</u> (function has been fully rewrited).	
9.44 header/	<u>FileForceCopy</u> now accepts a new parameter 'ForceOrNot' to perform the copy. <u>FileUUCP</u> now accepts a new parameter 'HeaderOrNot' to perform the uuencode/uudecode with footer or not.	
9.43	no revision.	
9.34	no revision.	
9.25 structur	The following routine returns a Long data type instead of a Integer data type (especially for Network e): RcsCountFileDir Correction of matching file with "*.*" in the following routines (all files without extension were not treated): RcsCountFileDir, RcsFilesSize, RcsFilesSizeOnDisk, RcsFilesSlack, Correction of bad calculation for RcsFilesSizeOnDisk, RcsFilesSlack,	
9.23 Correct a problem with c <u>GetFileVersion</u> and c <u>GetFileVersionInfo</u> (for some files, not enough memory to handle information).		
9.22	no revision.	
9.21	Correct a problem in c <u>FileSearchAndReplace</u> . The function worked not good in some cases.	
9.20	no revision.	
9.10	no revision.	
9.08 4 times.	Increase the length of the returned string in <u>StringSAR</u> to 25 times the length of the search string in place of	
9.07 Now, <u>FilesSize</u> / <u>FilesSizeOnDisk</u> / <u>FilesSlack</u> can handle hard disk greater than 2Gb (return value is a DOUBLE in place of LONG). Now, <u>RcsFilesSize</u> / <u>RcsFilesSizeOnDisk</u> / <u>RcsFilesSlack</u> can handle hard disk greater than 2Gb (return value is a DOUBLE in place of LONG).		

9.06 Correct a problem in <u>LngMsgBox</u> and <u>LngBoxMsg</u> : default button 1 is not selected when 3 buttons are displayed.

Now, <u>GetDiskFree</u> / <u>GetDiskSpace</u> / <u>GetDiskUsed</u> / <u>GetDiskClusterSize</u> can handle hard disk greater than

- 9.05 Add the registration of my products on Internet with KAGI SHAREWARE, use REGISTER.EXE for registration.
- 9.04 Modification of the memory allocation for some routines.

value is a DOUBLE in place of LONG).

2Gb (return value is a DOUBLE in place of LONG).

9.01	no revision.	
9.00	no revision.	
8.08	Correct a problem with cDOSSetVolumeLabel. The function can't delete the volume label.	
7.01	no revision.	
7.00 Correct a problem when accessing a Sheet other than the first in ClearSheet, ClearRow, ClearCol in <u>Disk Array routines</u> <u>Multiple Disk Array routines</u> , <u>Huge Memory Arrays</u> .		
6.01	no revision.	
6.00 c <u>FileSe</u>	Increase of line length from 2304 to 4096 and changes some internal functionnalities in earchAndReplace.	
5.29	Adds RS_MENU for language's management. Adds A_NORMAL_ARCHIVE and A_ALL attributes.	
5.20	Correct a GPF problem with cGetCurrentDrive.	
5.10	no revision.	
5.02	Correct a problem with c <u>GetVersion</u> . The version returned don't take care of minor version.	
5.00	no revision.	
4.57	no revision.	
4.50	no revision.	
4.00	no revision.	
3.52	Some little internal change.	
3.51	Correct a problem with clsFilenameValid if the filename begins with '\'	
3.50	no revision.	
3.00	Changes the functionnality of cProperName2.	
2.05	no revision.	
2.00	no revision.	
1.60	no revision.	
1.52	no revision.	
1.50	Correct a problem with cGetSectionItems (other .INI file than WIN.INI are not processed).	
1.42 Adds a new value for Encrypt/Decrypt (ENCRYPT_LEVEL_4) (see c <u>Encrypt</u> , c <u>Decrypt</u> , c <u>FileEncrypt</u> , c <u>FileDecrypt</u>).		
1.36	no revision.	
1.33 Corrects a problem if you pass a bad open mode (not OPEN_MODE_BINARY or OPEN_MODE_TEXT) in c <u>FileCRC32</u> . Corrects a problem in c <u>LngMsgbox</u> , c <u>LngBoxMsg</u> when using MB_MESSAGE_LEFT (default). Corrects a problem in the UNREGISTERED version when the 'Shareware License Agreement' box is displayed (VB causes a GPF).		

1.30 Adds a new item (.nlsTyped) in the description of a big sized array to specify the init of a type'd variable, see cDACreate.

Adds a new item (RS_TAG) to handle .Tag property in c<u>SaveCtlLanguage</u>, c<u>ReadCtlLanguage</u>.

Adds missing help topic for cScrollL and cScrollR.

Speed up the encrypt/decrypt algorithm by 20% (cEncrypt, cDecrypt, cFileEncrypt, cFileDecrypt).

Corrects a problem when accessing a sheet in a big sized array. This problem has no effect on a single sheet array.

Changes allocation of temporary memory to avoid/correct some problems in some strings routines (see Affected routines).

Corrects a problem when creating a big sized array of type'd variable in disk. This problem has not occured all times.

1.28 Adds TimeOut functionnality (from 2 to 30 seconds by step of 2 seconds) and display TimeOut to cLngMsgBox, cLngBoxMsg.

Adds the detection of CD-ROM drive (with MSCDEX driver) in cGetDriveType.

Adds some errors code and network drive validation for clsFilenameValid.

cKillFile, cKillFileAll, now, returns TRUE if the filename not exists.

Now, all files, from the executable demo, are included. (Be indulgent, no comments are in the demo).

- 1.22 no revision.
- 1.21 Removes the need of passing the letter drive in c<u>FilesSizeOnDisk</u> and c<u>FilesSlack</u> by using c<u>SplitPath</u>. Now, c<u>FilesSizeOnDisk</u>, c<u>FilesSlack</u> and c<u>FilesInDirectory</u> take care of the file attribute (Read-Only, System, Hidden).

Now, cAllISubDirectories can handle 700 directories (in place of 300) of maximum 70 chars long each.

Changes cSplitPath from sub to function to check if the filename is valid.

Improves cFileCopy, cFileFilter, cFileFilterNot, cCmpFileContents speed performance.

Improves cFileEncrypt, cFileDecrypt, cFileCompressTab, cFileExpandTab speed performance.

Improves cFileCRC32 speed performance.

Changes some errors number returned for standardization (see Returned Errors).

Corrects a problem with clsFilenameValid (some valid filename was not check als valid).

Corrects a problem with cGetFileVersion (sometimes GPF when accessing \StringFileInfo\04090000').

Corrects a problem with cGetFileVersionInfo (sometimes returns a chr\$(0)).

- 1.14 Modify the encrypt/decrypt algorithm. (cEncrypt, cDecrypt, cFileEncrypt, cFileDecrypt).
- 1.07 Add a new protection algorithm.

Add modal dialog box for unregistered version in place of message box.

1.00 Initial release of the 'TIME TO WIN' dynamic link library for VB 3.0.

Select the following product :

TIME TO WIN for VB 3.0
TIME TO WIN for VB 4.0 (16-Bit)
TIME TO WIN for VB 4.0 (32-Bit), VB 5.0 and VBA 5.0
TIME TO WIN for MSOffice 95

TIME TO WIN for VB 4.0 (16-Bit): Revision history

See also: New Features

Version	Comments	
9.59	Includes new version of ZLIB (v1.12). Correction in <u>PutIni</u> to handle the deleting of a section (szItem = "") or an item (szDefaut = ""). Corrects a problem (buffer initialization, causes a GPF in compiled program) with <u>StringSAR</u> . Modifies the buffer for uncompressed string in <u>GZIPStringExpand</u> .	
9.52	no revision.	
9.45	Correction of a GPF in <u>FileSearchAndReplace</u> (function has been fully rewrited).	
9.44 header/	$\frac{\text{FileForceCopy}}{\text{EileUUCP}} \text{ now accepts a new parameter 'ForceOrNot' to perform the copy.} \\ \frac{\text{FileUUCP}}{\text{EileUUCP}} \text{ now accepts a new parameter 'HeaderOrNot' to perform the uuencode/uudecode with footer or not.} \\$	
9.43	no revision.	
9.34	no revision.	
9.25 The following routine returns a Long data type instead of a Integer data type (especially for Network structure):		
	RcsCountFileDir Correction of matching file with "*.*" in the following routines (all files without extension were not reated): RcsCountFileDir, RcsFilesSize, RcsFilesSizeOnDisk, RcsFilesSlack, Correction of bad calculation for RcsFilesSizeOnDisk, RcsFilesSlack,	
9.23 handle i	Correct a problem with c <u>GetFileVersion</u> and c <u>GetFileVersionInfo</u> (for some files, not enough memory to information).	
9.22	no revision.	
9.21	Correct a problem in cFileSearchAndReplace. The function worked not good in some cases.	
9.20	no revision.	
9.10	no revision.	
9.08 6 times.	Increase the length of the returned string in <u>StringSAR</u> to 25 times the length of the search string in place of	
9.07 DOUBL	Now, <u>FilesSize</u> / <u>FilesSizeOnDisk</u> / <u>FilesSlack</u> can handle hard disk greater than 2Gb (return value is a E in place of LONG).	

- Now, <u>RcsFilesSizeOnDisk</u> / <u>RcsFilesSizeOnDisk</u> / <u>RcsFilesSlack</u> can handle hard disk greater than 2Gb (return value is a DOUBLE in place of LONG).
- Now, <u>GetDiskFree</u> / <u>GetDiskSpace</u> / <u>GetDiskUsed</u> / <u>GetDiskClusterSize</u> can handle hard disk greater than 2Gb (return value is a DOUBLE in place of LONG).
- 9.06 Correct a problem in $\underline{LngMsgBox}$ and $\underline{LngBoxMsg}$: default button 1 is not selected when 3 buttons are displayed.
- 9.05 Add the registration of my products on Internet with KAGI SHAREWARE, use REGISTER.EXE for registration.
- 9.01 no revision.

- 9.00 no revision.
- 8.08 Correct a problem with c<u>DOSSetVolumeLabel</u>. The function can't delete the volume label.
- 7.07 The following functions has been removed:

cReadMnuLanguage has been included in the functions cReadCtlLanguage,

cReadCtlLanguageExt

cSaveMnuLanguage has been included in the functions cSaveCtlLanguage, cSaveCtlLanguageExt

7.00 Initial release of the 'TIME TO WIN (16-Bit)' Dynamic Link Library for Visual Basic 4.0 (16-Bit Edition).

Compression: Overview

ASHFileCompress
ASHFileExpand
FileCompress
FileExpand
GZIPFileCompress
GZIPFileExpand
GZIPStringCompress
GZIPStringExpand
LZARIcompress
LZARIexpand
StringCompress
StringExpand

compress a file into a compressed format using ASH arithmetic compression. expand a compressed file into a normal format using ASH arithmetic compression. compress a file into a compressed format. expand a compressed file into a normal format.

compress a file into a compressed format using GZIP compression method. expand a compressed file into a normal format using GZIP compression method. compress a string into a compressed format using GZIP compression method. expand a compressed string into a normal format using GZIP compression method. compress a file into a compressed format using arithmetic compression. expand a compressed file into a normal format using arithmetic compression. compress a string into a compressed format.

expand a compressed string into a normal format.

TIME TO WIN for VB 4.0 (32-Bit), VB 5.0 and VBA 5.0 : Revision history

See also : New Features

Version	Comments
5.43	The demo doesn't use THREED32.OCX
5.34	Corrects a problem (buffer initialization, causes a GPF in compiled program) with <u>StringSAR</u> . Modifies the buffer for uncompressed string in <u>GZIPStringExpand</u> .
5.25	Add functionnalities to WrapLine to handle CR+LF.
5.20	Price of "TIME TO WIN 32-Bit" and "update to TIME TO WIN 32-Bit" has been updated (see <u>Registration</u>) Includes new registration method (usage of the registry in place of a license file). Includes new version of ZLIB (v1.12). <u>GetDiskX</u> has been adapted to take care of Win95 OSR2.
5.11	Correction in <u>FileStatistics</u> for file size > 32768 bytes. Includes new version of ZLIB (v1.11).
5.09	Includes new version of ZLIB (v1.10).
5.02	Correction of a GPF in GZIPFileCompress under Windows NT.
5.01	no revision.
5.00	Correction in Putlni to handle the deleting of a section (szItem = "") or an item (szDefaut = "").
4.52	Adds 2 new parameters in <u>RmvDupX</u> to remove duplicate values in an array (Integer, Long, Single, Double)
4.43	Now, c <u>SortX</u> can handle array with two dimensions. Now, c <u>ReverseSortX</u> can handle array with two dimensions.
4.34	Correction of a GPF in <u>FileSearchAndReplace</u> (function has been fully rewrited).
	LockMouse now accepts a new parameter called to perform the choice of the click to hook (left and/or and/or right). FileForceCopy now accepts a new parameter called 'ForceOrNot' to perform the copy. FileUUCP now accepts a new parameter called 'HeaderOrNot' to perform the uuencode/uudecode with footer or not.
4.25	no revision.
4.21	no revision.
4.16	no revision.
4.12	Correction of bad calculation for <u>RcsFilesSizeOnDisk</u> , <u>RcsFilesSlack</u> ,
4.10 structure	The following routine returns a Long data type instead of a Integer data type (especially for Network e): RcsCountFileDir

<u>RcsCountFileDir</u>

Correction of matching file with "*.*" in the following routines (all files without extension were not treated):

RcsCountFileDir, RcsFilesSize, RcsFilesSizeOnDisk, RcsFilesSlack,

SearchFile, ComboSearchFile, ListSearchFile, SearchDir, ComboSearchDir, ListSearchDir

KillDirs, KillDirFilesAll

- 4.05 Correct a problem in c<u>FileSearchAndReplace</u>. The function worked not good in some cases.
- 4.04 no revision.
- 4.03 no revision.
- 4.00 no revision.
- 3.50 cKillDirs has been fully rewrited. Now, There is no limitation.

Correction of matching file (now internal searching is case insensitive) in the following routines : RcsCountFileDir, RcsFilesSize, RcsFilesSizeOnDisk, RcsFilesSlack,

SearchFile, ComboSearchFile, ListSearchFile, SearchDir, ComboSearchDir, ListSearchDir KillDirs, KillDirFilesAll

- 3.40 no revision.
- 3.30 no revision.
- 3.22 Correct a problem in <u>DESencryptFile</u> when the size of the source file is a multiple of 8.

Correct a problem in <u>DIAMONDencryptFile</u> when the size of the source file is a multiple of 16 (full mode) or 8 (lite mode).

Correct a problem in IDEAencryptFile when the size of the source file is a multiple of 8.

Correct a problem in <u>DIAMONDencrypt</u>, <u>DIAMONDencryptFile</u> (internal error especially under WinNT 4.0).

Now, $\underline{FileDateCreated}$ / $\underline{FileLastDateAccess}$ / $\underline{FileLastDateModified}$ take care of the format of the date in regional parameters.

Now, <u>FileTimeCreated</u> / <u>FileLastTimeAccess</u> / <u>FileLastTimeModified</u> take care of the format of the hour in regional parameters.

3.20 Increase the length of the returned string in <u>StringSAR</u> to 25 times the length of the search string in place of 6 times.

Correct some problems with <u>InsertByMask</u>, <u>InsertChars</u>, <u>FilterBlocks</u>, <u>FilterChars</u>, <u>FilterFirstChars</u>, <u>FilterNotChars</u>,

<u>GetInPart</u>, <u>GetInPartR</u>, <u>RemoveOneChar</u>, <u>RemoveBlockChar</u>, <u>StringSAR</u>, especially when out of limits or some empty strings.

- 3.10 no revision.
- 3.07 Include a Pentium Processor (Compatible) version of T2WIN-32.DLL.
- 3.06 Correct a problem in $\underline{LngMsgBox}$ and $\underline{LngBoxMsg}$: default button 1 is not selected when 3 buttons are displayed.
- 3.05 Add the registration of my products on Internet with KAGI SHAREWARE, use REGISTER.EXE for registration.

Change of the maximum compress ratio from 1:3 to 1:10 in <u>StringExpand</u> Now, <u>FilesSize / FilesSizeOnDisk</u> / <u>FilesSlack</u> can handle hard disk greater than 2Gb (return value is a DOUBLE in place of LONG).

Now, <u>RcsFilesSize</u> / <u>RcsFilesSizeOnDisk</u> / <u>RcsFilesSlack</u> can handle hard disk greater than 2Gb (return value is a DOUBLE in place of LONG).

Now, <u>GetDiskFree</u> / <u>GetDiskSpace</u> / <u>GetDiskUsed</u> / <u>GetDiskClusterSize</u> can handle hard disk greater than 2Gb (return value is a DOUBLE in place of LONG).

- 3.04 no revision.
- 3.03 Now, <u>DESencrypt</u> / <u>DESdecrypt</u> can handle a string with any size (not only a multiple of 8 chars). Now, <u>IDEAencrypt</u> / <u>IDEAencrypt</u> can handle a string with any size (not only a multiple of 8 chars).
- 3.02 no revision.
- 3.01 no revision.

- 3.00 no revision.
- 2.52 no revision.
- 2.51 Now, T2WIN-32.DLL can be registered directly by using the Register button. This method is usefully for Internet user.
- 2.50 Now, T2WIN-32.DLL is compatible with Windows NT 3.51. To do this, I've removed the cModule, cProcess, cThread functions.

New help file T2WINALL.HLP (this file).

- 2.10 no revision.
- 2.00 no revision.
- 1.60 no revision.
- 1.42 no revision.
- 1.33 Display some TimeOuts when 'TIME TO WIN (32-Bit) is not registered.
 Display an icon (and a tooltip) in the tray on the task bar when 'TIME TO WIN (32-Bit) is used in design mode.
- 1.24 The icons usen in the International Message Box and International Input Box are now the icons usen by Windows 95.
- 1.20 no revision.
- 1.11 Correct a problem with c<u>ChDir</u> and c<u>ChDrive</u> when the parameter is a zero-length string.
- 1.10 Suppression of the expiration date.

Add a logo in the UNregistered version.

Add a module (_T2WREG.EXE) for registering thru Internet.

Some improvements.

- 1.06 Correct a problem in cFileCRC32.
- 1.02 no revision.
- 1.00 Initial release of the 'TIME TO WIN (32-Bit)' Dynamic Link Library for Visual Basic 4.0 (32-Bit Edition under Windows 95/NT).

ArrayStringOnDisk

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

ArrayStringOnDisk put/get full variable string array (one dimension) on/from disk ascii file.

Declare Syntax:

Declare Function cArrayStringOnDisk Lib "time2win.dll" (ByVal File As String, Array() As Any, ByVal GetPut As Integer, rRecords As Long) As Long

Call Syntax:

test& = cArrayStringOnDisk(File\$, Array(), GetPut%, rRecords&)

Where:

File\$ is the file to use.

Array() is the variable array string with one dimension. PUT_ARRAY_ON_DISK to put the array on disk, GET_ARRAY_ON_DISK to get the array from disk. GetPut%

the returned number of records. rRecords& test& >=0 is the returned length of the file,

< 0 is an error occurs (error n° is the negative value of all DA_x values, see Constants and

Types declaration).

Comments:

This function can handle only a variable type'd string derived from tagVARSTRING (see below).

Don't forget that if you use the 'ReDim' statement at the procedure level without have declared the array als Global. you must initialize the array before using this function (see below). You must initialize the array with enough space to handle the size of the file This is due to a VB limitation.

When reading, if the number of lines in the file is below the size of the array, the remain items in the array are set to EMPTY string. The CR + LF are not included in the array.

When writing, all lines are appended with CR + LF.

This function can handle huge array (greater than 65535 bytes) (see the example below).

Type tagVARSTRING

Contents As String

End Type

Examples:

ReDim AD(-999 To 1000) As tagVARSTRING

Dim i As Long Dim r As Long

For i = -999 To 1000

AD(i).Contents = Space\$(256)

Next i

Debug.Print cArrayStringOnDisk("c:\autoexec.bat", AD(), GET_ARRAY_ON_DISK, r)

Debug.Print cArrayStringOnDisk("c:\autoexec.tab", AD(), PUT_ARRAY_ON_DISK, r)

```
For i = -999 To 1000
AD(i).Contents = Space$(256)

Next i

Debug.Print cArrayStringOnDisk("c:\autoexec.tab", AD(), GET_ARRAY_ON_DISK, r)

Debug.Print AD(-999).Contents
Debug.Print AD(-998).Contents
```

See also : Disk Array routines, c<u>ArrayOnDisk</u>

TIME TO WIN for MSOffice 95 : Revision history

See also : New Features

Version Comments

- 2.02 Correct a problem in $\underline{LngMsgBox}$ and $\underline{LngBoxMsg}$: default button 1 is not selected when 3 buttons are displayed.
- $2.01\,$ Add the registration of my products on Internet with KAGI SHAREWARE, use REGISTER.EXE for registration.
- 2.00 no revision.
- 1.00 Initial release of the 'TIME TO WIN for MSOffice 95' Dynamic Link Library.

EnumPrinterJobs

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

EnumPrinterJobs enumerates all pending jobs on a printer.

Declare Syntax:

Declare Function cEnumPrinterJobs Lib "time2win.dll" (ByVal PrinterName As String, JOBINFO As tagJOBINFO, ByVal FirstNext As Integer) As Integer

Call Syntax:

intResult% = cEnumPrinterJobs(PrinterName\$, JOBINFO, FirstNext%)

Where:

PrinterName\$ is the name of the printer for which the job is spooled;

JOBINFO is the type'd tagJOBINFO;

FirstNext% TRUE: begin the enumeration and return the first job;

FALSE: continue the enumeration and return the next job;

intResult% EPJ_SUCCESS : all is ok

EPJ_PRINTER_NAME_EMPTY: PrinterName\$ is empty

EPJ_CANT_OPEN_PRINTER: can't open the specified PrinterName\$
EPJ_STRANGE_ERROR: unknow error when accessing the enumeration.

EPJ CANT ENUMERATE_MORE_JOBS : no more jobs

Comments:

The returned 'IStatus' can be one or more of the following constant value :

```
JOB_STATUS_PAUSED
JOB_STATUS_ERROR
JOB_STATUS_DELETING
JOB_STATUS_SPOOLING
JOB_STATUS_PRINTING
JOB_STATUS_OFFLINE
JOB_STATUS_PAPEROUT
JOB_STATUS_PRINTED
JOB_STATUS_DELETED
JOB_STATUS_BLOCKED_DEVQ
JOB_STATUS_USER_INTERVENTION
```

Examples:

```
Dim intResult As Integer
Dim strDisplay As String
Dim JI As tagJOBINFO

strDisplay = ""

intResult = cEnumPrinterJobs("LPT1:", JI, True) 'first job

Do While intResult = EPJ_SUCCESS

strDisplay = strDisplay + "sPrinterName : "" & JI.sPrinterName & """ & vbCrLf
strDisplay = strDisplay + "sMachineName : "" & JI.sMachineName & """ & vbCrLf
strDisplay = strDisplay + "sUserName : "" & JI.sUserName & """ & vbCrLf
strDisplay = strDisplay + "sDocument : "" & JI.sDocument & """ & vbCrLf
```

```
strDisplay = strDisplay + "IJobld : " & JI.IJobld & vbCrLf
strDisplay = strDisplay + "IStatus : " & JI.IStatus & vbCrLf
strDisplay = strDisplay + "IPriority : " & JI.IPriority & vbCrLf
strDisplay = strDisplay + "IPosition : " & JI.IProsition & vbCrLf
strDisplay = strDisplay + "IStartTime : " & JI.IStartTime & vbCrLf
strDisplay = strDisplay + "IUntilTime : " & JI.IUntilTime & vbCrLf
strDisplay = strDisplay + "ITotalPages : " & JI.IUntilTime & vbCrLf
strDisplay = strDisplay + "IPagesPrinted : " & JI.IPagesPrinted & vbCrLf
strDisplay = strDisplay + "ISize : " & JI.ISize & vbCrLf
strDisplay = strDisplay + "ITime : " & JI.ITime & vbCrLf
strDisplay = strDisplay + "Submitted : " & JI.wMonth & "/" & JI.wDay & "/" & JI.wYear & " " & JI.wHour & ":" & JI.wMinute & ":" & JI.wSecond & vbCrLf
intResult = cEnumPrinterJobs("LPT1:", JI, False) 'next job

Loop
debug.print strDisplay
```

See also:

Select the following product :

TIME TO WIN for VB 3.0
TIME TO WIN for VB 4.0 (16-Bit)
TIME TO WIN for VB 4.0 (32-Bit)
TIME TO WIN for MSOffice 95

TIME TO WIN for VB 3.0 : Registration

'TIME TO WIN' Library Registration Benefits:

- · Create your application easier and faster
- Create a smaller application
- Accelerate the speed of your application
- · Full support for one year

Registering the 'TIME TO WIN' Library (DLL) on CompuServe

- 1) On CompuServe GO SWREG
- 2) Choose Register Shareware.
- 3) 'TIME TO WIN' SWREG ID is: #4045. (price is \$43.00)

Registering the 'TIME TO WIN' Library (DLL) on Internet

- Use the program REGISTER.EXE or download REGISTER.ZIP from my Internet Homepage.
- 2) Select the product TIME TO WIN (16-Bit).
- 3) Send by e-mail or fax or postal.

As soon as I receive notification of your registration (usually 1 - 3 days) I will send you out via e-Mail a license file for each single user license that you've asked, or site license or world license.

You also qualify to receive new versions of 'TIME TO WIN' during one year.

This price is much a contribution to my works that a payment. When you register 'TIME TO WIN', you help me to develop better products and others products.

'TIME TO WIN' is written in C and has been compiled using Visual C++ 1.52c. The code has been optimized for 80386 use with the 'maximize speed' option.

'TIME TO WIN' can only be used with Visual Basic 3.0 under Windows 3.1x, Windows 95 and Windows NT.

TIME TO WIN for VB 4.0 (16-Bit): Registration

'TIME TO WIN (16-Bit)' Library Registration Benefits:

- · Create your application easier and faster
- · Create a smaller application
- Accelerate the speed of your application
- · Full support for one year

Registering the 'TIME TO WIN (16-Bit)' Library (DLL) on CompuServe

- 1) On CompuServe GO SWREG
- 2) Choose Register Shareware.
- 3) 'TIME TO WIN (16-Bit)' SWREG ID is: #4045. (price is \$43.00)

Registering the 'TIME TO WIN (16-Bit)' Library (DLL) on Internet

- Use the program REGISTER.EXE or download REGISTER.ZIP from my Internet Homepage.
- 2) Select the product TIME TO WIN (16-Bit).
- 3) Send by e-mail or fax or postal

As soon as I receive notification of your registration (usually 1 - 3 days) I will send you out via e-Mail a license file for each single user license that you've asked, or site license or world license.

You also qualify to receive new versions of 'TIME TO WIN' during one year.

This price is much a contribution to my works that a payment. When you register 'TIME TO WIN (16-Bit)', you help me to develop better products and others products.

'TIME TO WIN (16-Bit)' is written in C and has been compiled using Visual C++ 1.52c. The code has been optimized for 80386 use with the 'maximize speed' option.

'TIME TO WIN (16-Bit)' can only be used with Visual Basic 4.0 (16-Bit) under Windows 3.1x, Windows 95 and Windows NT.

TIME TO WIN for VB 4.0 (32-Bit): Registration

'TIME TO WIN (32-Bit)' Library Registration Benefits:

- Create your application easier and faster
- · Create a smaller application
- Accelerate the speed of your application
- · Full support for one year

Registering the 'TIME TO WIN (32-Bit)' Library (DLL) on CompuServe

- 1) On CompuServe GO SWREG
- 2) Choose Register Shareware.
- 3) 'TIME TO WIN (32-Bit)' SWREG ID is: #7516. (price is \$59.95)

Registering the 'TIME TO WIN (32-Bit)' Library (DLL) on Internet

- 1) Use the program REGISTER.EXE or download REGISTER.ZIP from my Internet Homepage.
- 2) Select the product TIME TO WIN (32-Bit).
- · 3) Send by e-mail or fax or postal.

Upgrading to 'TIME TO WIN (32-Bit)' Library from 'TIME TO WIN' or 'TIME TO WIN (16-Bit)' on CompuServe

- 1) On CompuServe GO SWREG
 - Choose Register Shareware.
- 3) 'UPDATE T2WIN -> T2WIN (32-Bit)' SWREG ID is: #7517. (price is \$34.95)

Upgrading to 'TIME TO WIN (32-Bit)' Library from 'TIME TO WIN' or 'TIME TO WIN (16-Bit)' on Internet

- 1) Use the program REGISTER.EXE or download REGISTER.ZIP from my Internet Homepage.
- 2) Select the product update TIME TO WIN (16-Bit) to TIME TO WIN (32-Bit).
- 3) Send by e-mail or fax or postal.

As soon as I receive notification of your registration (usually 1 - 3 days) I will send you out via e-Mail a license file for each single user license that you've asked, or site license or world license.

You also qualify to receive new versions of 'TIME TO WIN (32-Bit)' during one year.

This price is much a contribution to my works that a payment.

When you register 'TIME TO WIN (32-Bit)', you help me to develop better products and others products.

'TIME TO WIN (32-Bit)' is written in C and has been compiled using Visual C++ 5.00.

The code for T2WIN-32.DLL has been optimized for 80486 use with the 'maximize speed' option.

The code for T2WIN32P.DLL has been optimized for Pentium Processor use with the 'maximize speed' option.

The code for T2W32PRO.DLL has been optimized for Pentium Pro Processor use with the 'maximize speed' option.

'TIME TO WIN (32-Bit)' can only be used with Visual Basic 4.0 (32-Bit Edition) or higher under Windows 95 and Windows NT.

TIME TO WIN for MSOffice 95: Registration

'TIME TO WIN for MSOffice 95' Library Registration Benefits :

- · Create your application easier and faster
- · Create a smaller application
- Accelerate the speed of your application
- · Full support for one year

Registering the 'TIME TO WIN for MSOffice 95' Library (DLL) on CompuServe

- 1) On CompuServe GO SWREG
- 2) Choose Register Shareware.
- 3) 'TIME TO WIN for MSOffice 95' SWREG ID is: #10355. (price is \$25.00)

Registering the 'TIME TO WIN for MSOffice 95' Library (DLL) on Internet

- 1) Use the program REGISTER.EXE or download REGISTER.ZIP from my Internet Homepage.
- 2) Select the product TIME TO WIN for MSOffice 95.
- 3) Send by e-mail or fax or postal.

As soon as I receive notification of your registration (usually 1 - 3 days) I will send you out via e-Mail a license file for each single user license that you've asked, or site license or world license.

You also qualify to receive new versions of 'TIME TO WIN' during one year.

This price is much a contribution to my works that a payment.

When you register 'TIME TO WIN for MSOffice 95', you help me to develop better products and others products.

'TIME TO WIN for MSOffice 95' is written in C and has been compiled using Visual C++ 4.00. The code has been optimized for 80486 use with the 'maximize speed' option.

'TIME TO WIN for MSOffice 95' can only be used with MSOffice 95.

AddD, AddI, AddL, AddS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

AddD add a constant value to all of the elements of a Double array. AddI add a constant value to all of the elements of an Integer array. AddL add a constant value to all of the elements of a Long array. AddS add a constant value to all of the elements of a Single array.

Declare Syntax:

Declare Function cAddD Lib "time2win.dll" (array() As Double, ByVal nValue As Double) As Integer Declare Function cAddI Lib "time2win.dll" (array() As Integer, ByVal nValue As Integer) As Integer Declare Function cAddL Lib "time2win.dll" (array() As Long, ByVal nValue As Long) As Integer Declare Function cAddS Lib "time2win.dll" (array() As Single, ByVal nValue As Single) As Integer

Call Syntax:

```
status% = cAddD(array(), nValue)
status% = cAddI(array(), nValue)
status% = cAddL(array(), nValue)
status% = cAddS(array(), nValue)
```

Where:

array() is the array (Double, Integer, Long, Single).

nValue is the value (Double, Integer, Long, Single) to add (if positive) or to substract (if negative) to all of

the elements of the array (Double, Integer, Long, Single).

status% always TRUE

Comments:

See Also: Array

Overview

'TIME TO WIN' is a DLL (Dynamic Link Library) for Visual Basic 3.0, Visual Basic 4.0 (16/32-Bit), Visual Basic 5.0, Visual Basic 5.0 for Application and MSOffice 95.

I'm an Engineer in Electricity and Electronic and I've writed 'TIME TO WIN' to help any users of VB to find a solution at some missing functions in VB.

VB is a powerfull product but by some aspects it is limited.

I hope that 'TIME TO WIN' will be a great advantage for you and for your application.

'TIME TO WIN' contains more over 913 functions or subroutines (following product). You can find functions or routines over the following sections :

2-D Geometry

3-D Geometry

Array

Binary

Bitmap

Compression

<u>Crc32</u>

Date and time

Days and months in different language

Disk array

Encryption

<u>File</u>

File I/O from C

Hi-Crypt

Huge memory array

Huge string

<u>IEEEnum</u>

Interest rate

<u>ls</u>

Language control

List box - combo box

Mail & News

<u>Math</u>

Matrix

Media ID - Volume

Miscellaneous

Multiple disk array

Multi language message box - input box

Network

Object

Printer

Process ID

Protection

Random

Registry key

Remote Access Service

Serialization

String

Swap

Task - File version TIME2WIN

<u>Timer</u>

Type

UUCP

<u>Windows</u>

Windows 95/NT4.0x

ArrayOnDisk

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

ArrayOnDisk put/get full array on/from disk

Declare Syntax:

Declare Function cArrayOnDisk Lib "time2win.dll" (ByVal File As String, Array() As Any, ByVal GetPut As Integer) As Long

Call Syntax:

test& = cArrayOnDisk(File\$, Array(), GetPut%)

Where:

File\$ is the file to use.

Array() is the array with any dimension.

GetPut% PUT_ARRAY_ON_DISK to put the array on disk,

GET ARRAY ON DISK to get the array from disk.

test& >=0 is the returned length of the file,

< 0 is an error occurs (error n° is the negative value of all DA x values, see Constants and

Types declaration).

Comments:

This function can handle any type'd variable (if strings are used, you must use only fixed string).

Don't forget that if you use the 'ReDim' statement at the procedure level without have declared the array als Global, you must initialize the array before using this function (see below). You must initialize the array with enough space to handle the size of the file This is due to a VB limitation.

This function can handle huge array (greater than 65535 bytes) (see the example below).

Beware, the ANY parameter in the defintion of this function doesn't support string array (why? ask to VB creator). To handle string (only fixed string), create a type'd variable with only an item, see below:

Type tagStringType

newString As String * 80

End Type

'This type replaces

Dim newString As String * 80

Examples:

```
ReDim AD(-999 To 9000, 0 To 1) As Long 'size is ((1+(9000 - -999)) * (1+(1-0)) * 4) = 80.000 bytes Dim i As Long
```

For i = -999 To 9000

AD(i, 0) = 1AD(i, 1) = 2

Next i

Debug.Print cArrayOnDisk("c:\tmp\test.dat", AD(), PUT ARRAY ON DISK) '-> 80.000

For i = -999 To 9000

AD(i, 0) = 0AD(i, 1) = 0

Next i

Debug.Print cArrayOnDisk("c:\tmp\test.dat", AD(), GET_ARRAY_ON_DISK) '-> 80.000

Debug.Print AD(-999, 0), AD(9000, 0) Debug.Print AD(-999, 1), AD(9000, 1)

See also : Array

Array: Overview

<u>ArrayLookUp</u>

array and returns value in the second dimension.

ArrayOnDisk, ArrayStringOnDisk

AddD, Addl, AddL, AddS

<u>ArrayPrm</u>

CountD, CountI, CountL, CountS

DeviationD, DeviationI, DeviationL, DeviationS

in an array

FillD, FillI, FillL, FillS

any element.

FillIncrD, FillIncrI, FillIncrL, FillIncrS

increment for any element. MaxD, MaxI, MaxL, MaxS

MaxNotXD, MaxNotXI, MaxNotXL, MaxNotXS

a specified value.

MeanD, MeanI, MeanL, MeanS

MinD, MinI, MinL, MinS

MinNotXD, MinNotXI, MinNotXL, MinNotXS

specified value.

ReverseSortD, ReverseSortL, ReverseSortL, ReverseSortS

ReverseSortStr

RmvDupD, RmvDupl, RmvDupL, RmvDupS

dimensions).

SearchD, SearchI, SearchS

SetD, SetI, SetL, SetS

value.

ShiftLeftB, ShiftLeftD, ShiftLeftI, ShiftLeftL, ShiftLeftS

value.

ShiftRightB, ShiftRightD, ShiftRightL, ShiftRightL, ShiftRightS

value.

SortD, SortI, SortL, SortS

SortStr

SortTypedArray

elements of any data type, array, or a previously defined user-defined type.

SumD, SumI, SumL, SumS

SearchStr

Searchs an element in a two-dimensionnal string

Put/Get full array on/from disk.

Adding a value to all elements in an array

Read the configuration of an array. Count a specific value in an array.

Calculating the standard deviation from all elements

Filling an array with a value incremented by one for

Filling an array with a value incremented by an

Finding the maximum value in an array.

Finding the maximum value in an array, not equal to

Calculating the mean from all elements in an array.

Finding the minimum value in an array.

Finding the minimum value in an array, not equal to a

Sort an array in descending order. Sort, in descending order, a string.

Remove duplicate values in an array (one and two

Search a specific value in an array.

Setting all elements in an array with the same

Shift an array to Left and set the last element to a

Shift an array to Right and set the first element to a

Sort an array in ascending order. Sort, in ascending order, a string.

Sort a Type'd array which can contain one or more

Sum all elements from an array.

searchs a string array for a given string

DeviationD, DeviationI, DeviationS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

DeviationD will calculate the standard deviation from all elements in a Double array. DeviationI will calculate the standard deviation from all elements in an Integer array. DeviationL will calculate the standard deviation from all elements in a Long array. DeviationS will calculate the standard deviation from all elements in a Single array.

Declare Syntax:

Declare Function cDeviationD Lib "time2win.dll" (array() As Double) As Double Declare Function cDeviationI Lib "time2win.dll" (array() As Integer) As Double Declare Function cDeviationL Lib "time2win.dll" (array() As Long) As Double Declare Function cDeviationS Lib "time2win.dll" (array() As Single) As Double

Call Syntax:

deviation# = cDeviationD(array())
deviation# = cDeviationI(array())
deviation# = cDeviationL(array())
deviation# = cDeviationS(array())

Where:

array() is the array (Double, Integer, Long, Single).

deviation# is the standard deviation calculated. This value is always a Double value.

Comments:

See Also: Array

ArrayPrm

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ArrayPrm retrieve the definition of a given array (only one dimension and for numeric array)

Declare Syntax:

Declare Function cArrayPrm Lib "time2win.dll" (array() As Any, nArray As Any) As Integer

Call Syntax:

status% = cArrayPrm(array(), nArray)

Where:

array() the array to proceed

nArray a type variable 'ArrayType' for receiving the definition

status% always TRUE

Comments:

The definition of an array is given by the following parameters :

Bounds is the far address of the array in memory.

LBound is the smallest available subscript for the first dimension of the array.

UBound is the highest available subscript for the first dimension of the array.

ElemSize is the size of the element of the array IndexCount is the number of dimension of the array.

TotalElem is the number of element in the array (UBound - LBound + 1) in the first dimension.

Examples:

Dim array(1 To 16)
Dim arrayDef
Dim status

As Integer
As ArrayType
As Integer

status = cArrayPrm(array(), arrayDef)

arrayDef.Bounds is 1048577

arrayDef.LBound is 1

arrayDef.UBound is 16

arrayDef.ElemSize is 2 (INTEGER)

arrayDef.IndexCount is 1 arrayDef.TotalElem is 16

Dim array(-7 To 25)

Dim arrayDef

Dim status

As Double

As ArrayType

As Integer

status = cArrayPrm(array(), arrayDef)

arrayDef.Bounds is 1703929

arrayDef.LBound is -7

arrayDef.UBound is 25

arrayDef.ElemSize is 8 (DOUBLE)

arrayDef.IndexCount is 1 arrayDef.TotalElem is 33

Dim array(-10 To 10, 1 TO 7) As Long
Dim arrayDef As ArrayType

Dim status As Integer

status = cArrayPrm(array(), arrayDef)

is 458753

is 7

is 4 (LONG) is 2

arrayDef.Bounds arrayDef.LBound is 1 arrayDef.UBound arrayDef.ElemSize arrayDef.IndexCount arrayDef.TotalElem is 7

See also : Array

FillD, FillI, FillL, FillS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FillD fill, with an automatic incremented value, all of the elements of a Double array. FillI fill, with an automatic incremented value, all of the elements of an Integer array. FillL fill, with an automatic incremented value, all of the elements of a Long array. FillS fill, with an automatic incremented value, all of the elements of a Single array.

Declare Syntax:

Declare Function cFillD Lib "time2win.dll" (array() As Double, ByVal nValue As Double) As Integer Declare Function cFillI Lib "time2win.dll" (array() As Integer, ByVal nValue As Integer) As Integer Declare Function cFillL Lib "time2win.dll" (array() As Long, ByVal nValue As Long) As Integer Declare Function cFillS Lib "time2win.dll" (array() As Single, ByVal nValue As Single) As Integer

Call Syntax:

```
status% = cFillD(array(), nValue#)
status% = cFillI(array(), nValue%)
status% = cFillL(array(), nValue&)
status% = cFillS(array(), nValue!)
```

Where:

array() is the Double array.

nValue is the Double value automatically incremented by one.

status is always TRUE.

Comments:

See Also: Array

FillIncrD, FillIncrI, FillIncrL, FillIncrS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FillncrD fill, with an automatic incremented value, all of the elements of a Double array. FillncrI fill, with an automatic incremented value, all of the elements of an Integer array. FillncrL fill, with an automatic incremented value, all of the elements of a Long array. FillncrS fill, with an automatic incremented value, all of the elements of a Single array.

Declare Syntax:

Declare Function cFillIncrD Lib "time2win.dll" (Array() As Double, ByVal nValue As Double, ByVal Increment As Double) As Integer

Declare Function cFillIncrl Lib "time2win.dll" (Array() As Integer, ByVal nValue As Integer, ByVal Increment As Integer) As Integer

Declare Function cFillIncrL Lib "time2win.dll" (Array() As Long, ByVal nValue As Long, ByVal Increment As Long) As Integer

Declare Function cFillIncrS Lib "time2win.dll" (Array() As Single, ByVal nValue As Single, ByVal Increment As Single) As Integer

Call Syntax:

```
status% = cFillIncrD(array(), nValue#, Increment#)
status% = cFillIncrl(array(), nValue%, Increment%)
status% = cFillIncrL(array(), nValue&, Increment&)
status% = cFillIncrS(array(), nValue!, Increment!)
```

Where:

array() is the array (Double, Integer, Long, Single).

nValue is the starting value (Double, Integer, Long, Single). Increment is the increment (Double, Integer, Long, Single).

status is always TRUE.

Comments:

MaxD, MaxI, MaxL, MaxS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MaxD will return the largest value in a Double array.

MaxI will return the largest value in an Integer array.

MaxL will return the largest value in a Long array.

MaxS will return the largest value in a Single array.

Declare Syntax:

Declare Function cMaxD Lib "time2win.dll" (array() As Double) As Double Declare Function cMaxI Lib "time2win.dll" (array() As Integer) As Integer Declare Function cMaxL Lib "time2win.dll" (array() As Long) As Long Declare Function cMaxS Lib "time2win.dll" (array() As Single) As Single

Call Syntax:

largest# = cMaxD(array())
largest% = cMaxI(array())
largest& = cMaxL(array())
largest! = cMaxS(array())

Where:

array() is the array (Double, Integer, Long, Single).

largest is the largest value (Double, Integer, Long, Single) from all of the elements of the array (Double, Integer, Long, Single).

Comments:

MeanD, MeanI, MeanL, MeanS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MeanD will calculate the mean from all elements in a Double array.

MeanI will calculate the mean from all elements in an Integer array.

MeanL will calculate the mean from all elements in a Long array.

MeanS will calculate the mean from all elements in a Single array.

Declare Syntax:

Declare Function cMeanD Lib "time2win.dll" (array() As Double) As Double Declare Function cMeanI Lib "time2win.dll" (array() As Integer) As Double Declare Function cMeanL Lib "time2win.dll" (array() As Long) As Double Declare Function cMeanS Lib "time2win.dll" (array() As Single) As Double

Call Syntax:

```
mean# = cMeanD(array())
mean% = cMeanI(array())
mean& = cMeanL(array())
mean! = cMeanS(array())
```

Where:

array() is the array (Double, Integer, Long, Single).

mean is the mean calculated. This value is always a Double value.

Comments:

MinD, MinI, MinL, MinS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MinD will return the smallest value in a Double array.
MinI will return the smallest value in an Integer array.
MinL will return the smallest value in a Long array.
MinS will return the smallest value in a Single array.

Declare Syntax:

Declare Function cMinD Lib "time2win.dll" (array() As Double) As Double Declare Function cMinI Lib "time2win.dll" (array() As Integer) As Integer Declare Function cMinL Lib "time2win.dll" (array() As Long) As Long Declare Function cMinS Lib "time2win.dll" (array() As Single) As Single

Call Syntax:

smallest# = cMinD(array())
smallest% = cMinI(array())
smallest& = cMinL(array())
smallest! = cMinS(array())

Where:

array() is the array (Double, Integer, Long, Single). smallest is the smallest value (Double, Integer, Long, Single) from all of the elements of the array (Double, Integer, Long, Single).

Comments:

ReverseSortD, ReverseSortI, ReverseSortL, ReverseSortS, ReverseSortStr

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ReverseSortD will sort, in descending order, all elements in a Double array.

ReverseSortI will sort, in descending order, all elements in an Integer array.

ReverseSortL will sort, in descending order, all elements in a Long array.

ReverseSortS will sort, in descending order, all elements in a Single array.

ReverseSortStr will sort, in descending order, a string divided in basis elements of a fixed length.

Declare Syntax:

Declare Function cReverseSortD Lib "time2win.dll" (array() As Double) As Integer Declare Function cReverseSortI Lib "time2win.dll" (array() As Integer) As Integer Declare Function cReverseSortL Lib "time2win.dll" (array() As Long) As Integer Declare Function cReverseSortS Lib "time2win.dll" (array() As Single) As Integer Declare Function cReverseSortStr Lib "time2win.dll" (Txt As String, ByVal nItem As Integer, ByVal ItemLength As Integer) As Integer

Call Syntax:

```
status% = cReverseSortD(array())
status% = cReverseSortI(array())
status% = cReverseSortL(array())
status% = cReverseSortS(array())
status% = cReverseSortStr(txt$, nItem%, ItemLength%)
```

Where:

For ReverseSortD, ReverseSortI, ReverseSortL, ReverseSortS:

array() is the array (Double, Integer, Long, Single).

status% is always TRUE.

For ReverseSortStr:

txt is the string to sort.

nItem is the total element is the string. ItemLength is the length for one element.

status is FALSE if the length of the string is not the 'nItem * ItemLength', or if length of the string is 0.

is TRUE if all is OK.

Comments:

With TIME TO WIN 32-Bit, you can sort numerical array with one and two dimensions.

SetD, SetI, SetL, SetS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SetD fill, with the same value, all of the elements of a Double array. SetI fill, with the same value, all of the elements of an Integer array. SetL fill, with the same value, all of the elements of a Long array. SetS fill, with the same value, all of the elements of a Single array.

Declare Syntax:

Declare Function cSetD Lib "time2win.dll" (array() As Double, ByVal nValue As Double) As Integer Declare Function cSetI Lib "time2win.dll" (array() As Integer, ByVal nValue As Integer) As Integer Declare Function cSetL Lib "time2win.dll" (array() As Long, ByVal nValue As Long) As Integer Declare Function cSetS Lib "time2win.dll" (array() As Single, ByVal nValue As Single) As Integer

Call Syntax:

```
status = cSetD(array(), nValue)
status = cSetl(array(), nValue)
status = cSetL(array(), nValue)
status = cSetS(array(), nValue)
```

Where:

array() is the array (Double, Integer, Long, Single).

nValue is the value (Double, Integer, Long, Single) to initialize the array.

status is always TRUE.

Comments:

SortD, SortI, SortL, SortS, SortStr

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SortD will sort, in ascending order, all elements in a Double array.

SortI will sort, in ascending order, all elements in an Integer array.

SortL will sort, in ascending order, all elements in a Long array.

SortS will sort, in ascending order, all elements in a Single array.

SortStr will sort, in ascending order, a string divided in basis elements of a fixed length.

Declare Syntax:

Declare Function cSortD Lib "time2win.dll" (array() As Double) As Integer
Declare Function cSortI Lib "time2win.dll" (array() As Integer) As Integer
Declare Function cSortL Lib "time2win.dll" (array() As Long) As Integer
Declare Function cSortS Lib "time2win.dll" (array() As Single) As Integer
Declare Function cSortStr Lib "time2win.dll" (Txt As String, ByVal nItem As Integer, ByVal ItemLength As Integer) As Integer

Call Syntax:

```
status% = cSortD(array())
status% = cSortI(array())
status% = cSortL(array())
status% = cSortS(array())
status% = cSortStr(txt$, nItem%, ItemLength%)
```

Where:

For SortD, SortI, SortL, SortS:

array() is the array (Double, Integer, Long, Single).

status% is always TRUE.

For SortStr:

txt is the string to sort.

nItem is the total element is the string. ItemLength is the length for one element.

status is FALSE if the length of the string is not the 'nItem * ItemLength', or if length of the string is 0.

is TRUE if all is OK.

Comments:

With TIME TO WIN 32-Bit, you can sort numerical array with one and two dimensions.

SumD, SumI, SumL, SumS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SumD will calculate the sum from all elements in a Double array. SumI will calculate the sum from all elements in an Integer array. SumL will calculate the sum from all elements in a Long array. SumS will calculate the sum from all elements in a Single array.

Declare Syntax:

Declare Function cSumD Lib "time2win.dll" (array() As Double) As Double Declare Function cSumI Lib "time2win.dll" (array() As Integer) As Double Declare Function cSumL Lib "time2win.dll" (array() As Long) As Double Declare Function cSumS Lib "time2win.dll" (array() As Single) As Double

Call Syntax:

sum# = cSumD(array()) sum% = cSumI(array()) sum& = cSumL(array()) sum! = cSumS(array())

Where:

array() is the array (Double, Integer, Long, Single).

sum is the sum calculated. This value is always a Double value.

Comments:

CountD, CountI, CountL, CountS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CountD counts a specific value in a Double array.
CountI counts a specific value in an Integer array.
CountL counts a specific value in a Long array.
CountS counts a specific value in a Single array.

Declare Syntax:

Declare Function cCountD Lib "time2win.dll" (array() As Double, ByVal Value As Double) As Long Declare Function cCountl Lib "time2win.dll" (array() As Integer, ByVal Value As Integer) As Long Declare Function cCountL Lib "time2win.dll" (array() As Long, ByVal Value As Long) As Long Declare Function cCountS Lib "time2win.dll" (array() As Single, ByVal Value As Single) As Long

Call Syntax:

```
cnt& = cCountD(array(), Value!)
cnt& = cCountI(array(), Value%)
cnt& = cCountL(array(), Value&)
cnt& = cCountS(array(), Value#)
```

Where:

array() is the array (Double, Integer, Long, Single).

Value? is the value (Double, Integer, Long, Single) to count.

cnt& is the returned counted value.

Comments:

SearchD, SearchI, SearchS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

```
SearchD search a specific value in a Double array. SearchI search a specific value in an Integer array. SearchL search a specific value in a Long array. SearchS search a specific value in a Single array.
```

Declare Syntax:

Declare Function cSearchD Lib "time2win.dll" (array() As Double, ByVal Value As Double) As Long Declare Function cSearchI Lib "time2win.dll" (array() As Integer, ByVal Value As Integer) As Long Declare Function cSearchL Lib "time2win.dll" (array() As Long, ByVal Value As Long) As Long Declare Function cSearchS Lib "time2win.dll" (array() As Single, ByVal Value As Single) As Long

Call Syntax:

```
cnt& = cSearchD(array(), Value#)
cnt& = cSearchI(array(), Value%)
cnt& = cSearchL(array(), Value&)
cnt& = cSearchS(array(), Value!)
```

Where:

array() is the array (Double, Integer, Long, Single).

Value? is the value to search (Double, Integer, Long, Single).

cnt& > 0 : the position of the searched value;

= -1: the searched value is not found.

Comments:

Disk array: Overview

The functions/subs used in the Disk Array routines handle big sized arrays on disk.

Each array must give/have a file to handle the information.

The concept of big sized arrays on disk is to use the mass storage (hard disk) in place of memory. This concept minimize the use of the memory for big array but decrease the speed to accessing data.

A fixed string array of 500 rows by 500 cols, 2 Sheets and a string size of 50 take 25.000.000 bytes. I think that this is better to place this array on the disk.

The following functions/subs are used to handle big sized arrays on disk:

<u>DAClear</u> clear a big sized array.

<u>DAClearCol</u> clear a single col on on a sheet in a big sized array. <u>DAClearRow</u> clear a single row on a sheet in a big sized array.

<u>DAClearSheet</u> clear a single sheet in a big sized array.

<u>DAClose</u> close a big sized array and keep it or close a big sized array and destroy it.

<u>DACreate</u> create a new big sized array on disk or use an existing big sized array on disk.

DAGetread an element from a big sized array on disk.DAGetTyperead a type'd variable from a big sized array on disk.DAPutsave an element to a big sized array on disk.DAPutTypesave a type'd variable to a big sized array on disk.

<u>DArGet</u> read an element from a big sized array on disk with only one sheet and one row.

<u>DArGetType</u> read a type'd variable from a big sized array on disk with only one sheet and one row.

DArPut save an element to a big sized array on disk with only one sheet and one row.

DArPutType
DAsClearCol
DAsClearRow
DAsGet
DAsGet
DAsGetType

save an element to a big sized array on disk with only one sheet
clear a single col on on a sheet in a big sized array with only one sheet.

clear a single row on a sheet in a big sized array with only one sheet.

read an element from a big sized array on disk with only one sheet.

read a type'd variable from a big sized array on disk with only one sheet.

DAsPut save an element to a big sized array on disk with only one sheet.

<u>DAsPutType</u> save a type'd variable to a big sized array on disk with only one sheet.and one row.

To minimize the use of too many functions for the different variable type in VB, <u>DAGet</u> and <u>DAPut</u> uses variant value (integer, long, single, double, currency, string). This can be slow down (a little bit) the speed for accessing the data.

To handle type'd variable, you must use <u>DAGetType</u>, <u>DAPutType</u>.

When you create a new array on disk, a header (128 chars for VB 3.0 and VB 4.0 (16-Bit), 200 chars for VB 4.0 (32-Bit)) is writed to begin of the associated file. This header is readed when you re-use an existing array to verify that this is a good big sized disk array.

Actually, the maximum number of chars for a string element or for a type'd variable is 4096.

DAClear, DAClearSheet, DAClearCol, DAsClearCol, DAClearRow, DAsClearRow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DAClear clear a big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

DAClearSheet clear a single Sheet in a big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

DAClearCol clear a single Col on one Sheet or on all Sheets in a big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

DAsClearCol have the same functionnality but with a big sized array with only one sheet.

DAClearRow clear a single Row on one Sheet or on all Sheets in a big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

DAsClearRow have the same functionnality but with a big sized array with only one sheet.

Declare Syntax:

Declare Function cDAClear Lib "time2win.dll" (DISKARRAY As tagDISKARRAY) As Integer

Declare Function cDAClearSheet Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Sheet As Long) As Integer

Declare Function cDAClearCol Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Col As Long, ByVal Sheet As Long) As Integer

Declare Function cDAsClearCol Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Col As Long) As Integer Declare Function cDAClearRow Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Sheet As Long) As Integer

Declare Function cDAsClearRow Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long) As Integer

Call Syntax:

ErrCode% = cDAClear(DISKARRAY)

ErrCode% = cDAClearSheet(DISKARRAY, Sheet&)

ErrCode% = cDAClearCol(DISKARRAY, Col&, Sheet&)

ErrCode% = cDAsClearCol(DISKARRAY, Col&)

ErrCode% = cDAClearRow(DISKARRAY, Row&, Sheet&)

ErrCode% = cDAsClearRow(DISKARRAY, Row&)

Where:

DISKARRAY is a type'd variable (tagDISKARRAY).

Col& is the desired Col.
Row& is the desired Row.
Sheet& is the desired Sheet.
ErrCode% is the returned error code.

Comments:

This function must be used only after you've created a big sized array on disk OR after the using of an existing big sized array on disk.

If you've created a big sized array on disk, the array is already cleared.

For DAClearSheet:

If the big sized array on disk have a single Sheet, this routine have the same effect that cDAClear.

If the Sheet is -1 then all Sheets are used. This parameter have the same functionnality that cDAClear If the Sheet is below 1 and different of -1, the Sheet 1 is used.

If the Sheet is greater than DISKARRAY.nSheets, the Sheet DISKARRAY.nSheets is used.

For DAClearCol, DAsClearCol:

If the Col is below 1, the Col 1 is used.

If the Col is greater than DISKARRAY.nCols, the Col DISKARRAY.nCols is used.

If the Sheet is -1 then all Sheets are used.

If the Sheet is below 1 and different of -1, the Sheet 1 is used.

If the Sheet is greater than DISKARRAY.nSheets, the Sheet DISKARRAY.nSheets is used.

For DAClearRow, DAsClearRow:

If the Row is below 1, the Row 1 is used.

If the Row is greater than DISKARRAY.nRows, the Row DISKARRAY.nRows is used.

If the Sheet is -1 then all Sheets are used.

If the Sheet is below 1 and different of -1, the Sheet 1 is used.

If the Sheet is greater than DISKARRAY.nSheets, the Sheet DISKARRAY.nSheets is used.

Examples:

Dim ErrCode As Integer

As tagDISKARRAY Dim DA

DA.nFilename = "c:\t2w tmp\dastring.tmp" 'name of the file to use DA.nTvpe = 50'positive value for a string DA.nlsTyped = False 'init the array with spaces

DA.nRows = 500'500 rows DA.nCols = 500 '500 cols '2 sheets DA.nSheets = 2

ErrCode = cDACreate(DA, True)

'create a new big sized array on disk

Call cDAPut(DA, 1, 1, 1, "D:1, ABCDEFGHIJ") 'save the string in Row 1, Col 1, Sheet 1 Call cDAPut(DA, 1, DA.nCols, 1, "D:1, abcdefghij") 'save the string in Row 1, Col 500, Sheet 1 'save the string in Row 500, Col 1, Sheet 1 Call cDAPut(DA, DA.nRows, 1, 1, "D:1, OPQRSTUVWXYZ") Call cDAPut(DA, DA.nRows, DA.nCols, 1, "D:1, oprqstuvwxyz") 'save the string in Row 500, Col

500, Sheet 1

'..... some codes

ErrCode = cDAClear(DA) 'clear all elements in the big sized array on

disk

ErrCode = cDAClearSheet(DA, 2) 'clear the Sheet 2 in the big sized array on

ErrCode = cDAClearCol(DA, DA.nCols, 2) 'clear the last Col in Sheet 2 in the big sized

array on disk

ErrCode = cDAsClearCol(DA, DA.nCols) 'clear the last Col in Sheet 1 in the big sized

array on disk

ErrCode = cDAClearRow(DA, DA.nRows, 2) 'clear the last Row in Sheet 2 in the big sized

array on disk

ErrCode = cDAsClearRow(DA, DA.nRows) 'clear the last Row in Sheet 1 in the big sized

array on disk

See also: Disk Array

DAGet, DAsGet, DArGet

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DAGet read an element from a big sized array on disk.

DArGet have the same functionnality but with a big sized array with only one sheet and only one row.

DAsGet have the same functionnality but with a big sized array with only one sheet.

Declare Syntax:

Declare Function cDAGet Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long) As Variant

Declare Function cDArGet Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Col As Long) As Variant Declare Function cDAsGet Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Col As Long) As Variant

Call Syntax:

Var = cDAGet(DISKARRAY, Row&, Col&, Sheet&)

Where:

DISKARRAY is a type'd variable (tagDISKARRAY).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

Var is the readed variant value depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used.

If the Col is below 1, the Col 1 is used.

If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than DISKARRAY.nRows, the Row DISKARRAY.nRows is used.

If the Col is greater than DISKARRAY.nCols, the Col DISKARRAY.nCols is used.

If the Sheet is greater than DISKARRAY.nSheets, the Sheet DISKARRAY.nSheets is used.

Examples:

see **DACreate**

See also: Disk Array

DAGetType, DAsGetType, DArGetType

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DAGetType read a type'd variable from a big sized array on disk.

DArGetType have the same functionnality but with a big sized array with only one sheet and only one row.

DAsGetType have the same functionnality but with a big sized array with only one sheet.

Declare Syntax:

Declare Sub cDAGetType Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, nType As Any)

Declare Sub cDArGetType Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Col As Long, nType As Any) Declare Sub cDAsGetType Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Col As Long, nType As Any)

Call Syntax:

Call cDAGetType(DISKARRAY, Row&, Col&, Sheet&, nType) Call cDArGetType(DISKARRAY, Col&, nType)

Call cDAsGetType(DISKARRAY, Row&, Col&, nType)

Where:

DISKARRAY is a type'd variable (tagDISKARRAY).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

nType is the readed type'd variable depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used. If the Col is below 1, the Col 1 is used.

If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than DISKARRAY.nRows, the Row DISKARRAY.nRows is used.

If the Col is greater than DISKARRAY.nCols, the Col DISKARRAY.nCols is used.

If the Sheet is greater than DISKARRAY.nSheets, the Sheet DISKARRAY.nSheets is used.

Examples:

Dim ErrCode As Integer

Dim DA As tagDISKARRAY
Dim TE(1 To 4) As tagTASKENTRY

DA.nFilename = "c:\t2w_tmp\datype.tmp" 'name of the file to use

DA.nType = Len(TE(1)) 'positive value for a type'd variable
DA.nIsTyped = True 'init the array with chr\$(0) because type'd

variable

DA.nRows = 500 '500 rows
DA.nCols = 500 '500 cols
DA.nSheets = 2 '2 sheets

ErrCode = cDACreate(DA, False) 'use a created big sized array on disk

Call cDAGetType(DA, 1, 1, 1, TE(1)) 'read the type'd variable in Row 1, Col 1,

Sheet 1

Call cDAGetType(DA, 1, DA.nCols, 1, TE(2)) 'read the type'd variable in Row 1, Col 500,

Sheet 1
Call cDAGetType(DA, DA.nRows, 1, 1, TE(3)) 'read the type'd variable in Row 500, Col 1, Sheet 1
Call cDAGetType(DA, DA.nRows, DA.nCols, 1, TE(4)) 'read the type'd variable in Row 500, Col 500, Sheet 1

See also: Disk Array

DAPut, DAsPut, DArPut

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DAPut save an element to a big sized array on disk.

DArPut have the same functionnality but with a big sized array with only one sheet and only one row.

DAsPut have the same functionnality but with a big sized array with only one sheet.

Declare Syntax:

Declare Sub cDAPut Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, Var As Variant)

Declare Sub cDArPut Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Col As Long, Var As Variant) Declare Sub cDAsPut Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Col As Long, Var As Variant)

Call Syntax:

Call cDAPut(DISKARRAY, Row&, Col&, Sheet&, Var)
Call cDArPut(DISKARRAY, Col&, Var)
Call cDAsPut(DISKARRAY, Row&, Col&, Var)

Where:

DISKARRAY is a type'd variable (tagDISKARRAY).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

Var is the variant value to save depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used. If the Col is below 1, the Col 1 is used. If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than DISKARRAY.nRows, the Row DISKARRAY.nRows is used.

If the Col is greater than DISKARRAY.nCols, the Col DISKARRAY.nCols is used.

If the Sheet is greater than DISKARRAY.nSheets, the Sheet DISKARRAY.nSheets is used.

Examples:

see **DACreate**

See also: Disk Array

DAPutType, DAsPutType, DArPutType

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DAPutType save a type'd variable from a big sized array on disk.

DArPutType have the same functionnality but with a big sized array with only one sheet and only one row. DAsPutType have the same functionnality but with a big sized array with only one sheet.

Declare Syntax:

Declare Sub cDAPutType Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, nType As Any)

Declare Sub cDArPutType Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Col As Long, nType As Any) Declare Sub cDAsPutType Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal Row As Long, ByVal Col As Long, nType As Any)

Call Syntax:

Call cDAPutType(DISKARRAY, Row&, Col&, Sheet&, nType)
Call cDArPutType(DISKARRAY, Col&, nType)
Call cDAsPutType(DISKARRAY, Row&, Col&, nType)

Where:

DISKARRAY is a type'd variable (tagDISKARRAY).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

nType is the type'd variable to save depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used. If the Col is below 1, the Col 1 is used. If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than DISKARRAY.nRows, the Row DISKARRAY.nRows is used.

If the Col is greater than DISKARRAY.nCols, the Col DISKARRAY.nCols is used.

If the Sheet is greater than DISKARRAY.nSheets, the Sheet DISKARRAY.nSheets is used.

Examples:

Dim ErrCode As Integer

Dim DA As tagDISKARRAY
Dim TE As tagTASKENTRY

DA.nFilename = "c:\t2w tmp\datype.tmp" 'name of the file to use

DA.nType = Len(TE) 'positive value for a type'd variable
DA.nIsTyped = True 'init the array with chr\$(0) because type'd

variable

DA.nRows = 500 '500 rows
DA.nCols = 500 '500 cols
DA.nSheets = 2 '2 sheets

ErrCode = cDACreate(DA, True) 'create a new big sized array on disk

ErrCode = cTasks(TE, True)
Call cDAPutType(DA, 1, 1, 1, TE)

'save the type'd variable in Row 1, Col 1,

Sheet 1

ErrCode = cTasks(TE, False)
Call cDAPutType(DA, 1, DA.nCols, 1, TE)
Sheet 1
ErrCode = cTasks(TE, False)
Call cDAPutType(DA, DA.nRows, 1, 1, TE)
Sheet 1
ErrCode = cTasks(TE, False)
Call cDAPutType(DA, DA.nRows, DA.nCols, 1, TE)
500, Sheet 1

See also: Disk Array

'save the type'd variable in Row 1, Col 500,

'save the type'd variable in Row 500, Col 1,

'save the type'd variable in Row 500, Col

DACreate

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DACreate create a new big sized array on disk or use an existing big sized array on disk.

Declare Syntax:

Declare Function cDACreate Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal CreateOrUse As Integer) As Integer

Call Syntax:

ErrCode% = cDACreate(DA, CreateOrUse%)

Where:

DISKARRAY is a type'd variable (tagDISKARRAY).

CreateOrUse% TRUE: if you want to create a new big sized array on disk,

FALSE: if you want to re-use an existing big sized array on disk.

ErrCode% is the returned <u>error code</u>.

Comments:

In theory:

The maxixum number of Rows is 2147483647 The maxixum number of Cols is 2147483647 The maxixum number of Sheets is 2147483647

You are only limited by the size of the disk on which the big sized array are defined.

The length of the filename can be 64 (VB 3.0, VB 4.0 (16-Bit)) or 128 (VB 4.0 (32-Bit)) chars maximum.

If you create a new big sized array on disk and if the file is already exists, the file is deleted before used. If you re-use an existing big sized array on disk, some checkings are made to verify the validity of the big sized array on disk.

Bigger are nRows, nCols or nSheets, bigger is the time to initialize.

When you create a new big sized array on disk, the only parameters that you must initialize are:

DA.nFilename = "c:\t2w_tmp\dastring.tmp" 'name of the file (you must have enough space on the

drive).

DA.nType = 50 'the type of the variable to use, see <u>Constants and</u>

<u>Types declaration.</u> (DA_x)

DA.nlsTyped = False

'Must be True for a type'd variable.

YOU CAN'T CHANGE THESE PARAMETERS AFTER THE CREATION OF THE BIG SIZED ARRAY. YOU CAN'T CHANGE THE OTHER VALUES IN THE TYPE'D VARIABLE.

When you create a new array, all elements are initialized with chr\$(0) except for string array which are initialized with chr\$(32) (spaces).

However, string array and type'd array use the same positive value to define in .nType, but the type'd array must be initialized with chr\$(0) not with chr\$(32) therefore for a type'd you must specify .nlsTyped on True to initialize it with chr\$(0).

If you use big size array of type'd variable, the type'd variable can be only a mix of fixed variable (variable string length can't be used).

Examples:

Dim ErrCode As Integer

Dim DA As tagDISKARRAY

Dim Var(1 To 8) As Variant

DA.nFilename = "c:\t2w tmp\dastring.tmp"

DA.nType = 50DA.nlsTyped = False DA.nRows = 500DA.nCols = 500

DA.nSheets = 2

ErrCode = cDACreate(DA, True)

Call cDAPut(DA, 1, 1, 1, "D:1, ABCDEFGHIJ") Call cDAPut(DA, 1, DA.nCols, 1, "D:1, abcdefghij")

Call cDAPut(DA, DA.nRows, 1, 1, "D:1, OPQRSTUVWXYZ") Call cDAPut(DA, DA.nRows, DA.nCols, 1, "D:1, oprqstuvwxyz")

500, Sheet 1

Call cDAPut(DA, 1, 1, 2, "D:2, 1234567890")

Call cDAPut(DA, 1, DA.nCols, 2, "D:2, 0987654321") Call cDAPut(DA, DA.nRows, 1, 2, "D:2, 12345ABCDE")

Call cDAPut(DA, DA.nRows, DA.nCols, 2, "D:2, VWXYZ54321")

Var(1) = cDAGet(DA, 1, 1, 1)

Var(2) = cDAGet(DA, 1, DA.nCols, 1") Var(3) = cDAGet(DA, DA.nRows, 1, 1)

Var(4) = cDAGet(DA, DA.nRows, DA.nCols, 1)

Var(5) = cDAGet(DA, 1, 1, 2)

Var(6) = cDAGet(DA, 1, DA.nCols, 2) Var(7) = cDAGet(DA, DA.nRows, 1, 2)

Var(8) = cDAGet(DA, DA.nRows, DA.nCols, 2)

Call cDAClose(DA, False)

On my system:

ErrCode = -1

DA.daSize = 128

DA.Signature = "MCR 347"

DA.nFilename = "c:\t2w tmp\dastring.tmp"

DA.nType = 50DA.nRows = 500

DA.nCols = 500

DA.nSheets = 2DA.rHandle = 0

DA.rElementSize = 50 DA.rFileSize = 25000128

DA.rParts = 762

chars)

DA.rRemain = 30784 DA.rSheetSize = 250000

DA.rTime = 26639

'name of the file to use 'positive value for a string

'init the array with spaces

'500 rows '500 cols '2 sheets

'create a new big sized array on disk

'save the string in Row 1, Col 1, Sheet 1 'save the string in Row 1, Col 500, Sheet 1 'save the string in Row 500, Col 1, Sheet 1

'save the string in Row 500, Col

'save the string in Row 1, Col 1, Sheet 2 'save the string in Row 1, Col 500, Sheet 2 'save the string in Row 500, Col 1, Sheet 2

'save the string in Row 500, Col 500, Sheet 2

'read the string in Row 1, Col 1, Sheet 1 'read the string in Row 1, Col 500, Sheet 1

'read the string in Row 500, Col 1, Sheet 1

'read the string in Row 500, Col 500, Sheet 1

'read the string in Row 1, Col 1, Sheet 2 'read the string in Row 1, Col 500, Sheet 2 'read the string in Row 500, Col 1, Sheet 2

'read the string in Row 500, Col 500, Sheet 2

'close the file without delete it.

'no error

'internal header size

'internal signature 'name fo the file

'fixed string of 50 chars

'500 rows '500 cols '2 sheets

'internal handle

'internal size of a element 'internal size of the file

'internal number of parts (block of 32768

'internal remain chars

'internal size of one sheet

'internal time to perform the operation

Var(1) = "D:1, ABCDEFGHIJ" Var(2) = "D:1, abcdefghij" Var(3) = "D:1, OPQRSTUVWXYZ"

Var(4) = "D:1, oprqstuvwxyz"

Var(5) = "D:2, 1234567890"

Var(6) = "D:2, 0987654321"

Var(7) = "D:2, 12345ABCDE"

Var(8) = "D:2, VWXYZ54321"

See also: Disk Array

DAClose

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DAClose close a big sized array and keep it or close a big sized array and destroy it.

Declare Syntax:

Declare Sub cDAClose Lib "time2win.dll" (DISKARRAY As tagDISKARRAY, ByVal DeleteFile As Integer)

Call Syntax:

Call cDAClose(DISKARRAY, DeleteFile%)

Where:

DISKARRAY is a type'd variable (tagDISKARRAY).

DeleteFile% TRUE : delete the file

FALSE: don't delete the file (the file can be re-used by cDACreate)

Comments:

If you want to re-use the big sized array on disk with the same parameters and whitout a new initialization, don't delete it.

Examples:

see DACreate

See also: Disk Array

MDAClose

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MDAClose close a multiple big sized array and keep it or close a multiple big sized array and destroy it.

Declare Syntax:

Declare Sub cMDAClose Lib "time2win.dll" (MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal DeleteFile As Integer)

Call Syntax:

Call cMDAClose(MULTIPLEDISKARRAY, DeleteFile%)

Where:

MULTIPLEDISKARRAY is a type'd variable (tagMULTIPLEDISKARRAY).

DeleteFile% TRUE : delete the file

FALSE: don't delete the file (the file can be re-used by cMDACreate)

Comments:

If you want to re-use the multiple big sized array on disk with the same parameters and whitout a new initialization, don't delete it.

Examples:

see MDACreate

See also: Multiple Disk Array

MDAClear, MDAClearSheet, MDAClearCol, MDAsClearCol, MDAClearRow, MDAsClearRow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MDAClear clear a multiple big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

MDAClearSheet clear a single Sheet in a multiple big sized array (fill it with chr\$(0) or chr\$(32) (for string array)). MDAClearCol clear a single Col on one Sheet or on all Sheets in a multiple big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

MDAsClearCol have the same functionnality but with a multiple big sized array with only one sheet.

MDAClearRow clear a single Row on one Sheet or on all Sheets in a multiple big sized array (fill it with chr\$(0) or chr\$(32) (for string array)).

MDAsClearRow have the same functionnality but with a multiple big sized array with only one sheet.

Declare Syntax:

Declare Function cMDAClear Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY) As Integer

Declare Function cMDAClearSheet Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Sheet As Long) As Integer

Declare Function cMDAClearCol Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Col As Long, ByVal Sheet As Long) As Integer

Declare Function cMDAsClearCol Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Col As Long) As Integer

Declare Function cMDAClearRow Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Sheet As Long) As Integer

Declare Function cMDAsClearRow Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long) As Integer

Call Syntax:

ErrCode% = cMDAClear(Array%, MULTIPLEDISKARRAY)

ErrCode% = cMDAClearSheet(Array%, MULTIPLEDISKARRAY, Sheet&)

ErrCode% = cMDAClearCol(Array%, MULTIPLEDISKARRAY, Col&, Sheet&)

ErrCode% = cMDAsClearCol(Array%, MULTIPLEDISKARRAY, Col&)

ErrCode% = cMDAClearRow(Array%, MULTIPLEDISKARRAY, Row&, Sheet&)

ErrCode% = cMDAsClearRow(Array%, MULTIPLEDISKARRAY, Row&)

Where:

MULTIPLEDISKARRAY is a type'd variable (tagMULTIPLEDISKARRAY).

Array% is the array in the multiple array (must be between 1 to 20).

Col& is the desired Col.

Row& is the desired Row.

Sheet& is the desired Sheet.

ErrCode% is the returned error code.

Comments:

This function must be used only after you've created a multiple big sized array on disk OR after the using of an existing multiple big sized array on disk.

If you've created a multiple big sized array on disk, the array is already cleared.

For MDAClearSheet:

If the multiple big sized array on disk have a single Sheet, this routine have the same effect that cMDAClear.

If the Sheet is -1 then all Sheets are used. This parameter have the same functionnality that cMDAClear

If the Sheet is below 1 and different of -1, the Sheet 1 is used.

If the Sheet is greater than MULTIPLEDISKARRAY.nSheets(Array%), the Sheet

MULTIPLEDISKARRAY.nSheets(Array%) is used.

For MDAClearCol, MDAsClearCol:

If the Col is below 1, the Col 1 is used.

If the CoI is greater than MULTIPLEDISKARRAY.nCoIs(Array%), the CoI MULTIPLEDISKARRAY.nCoIs(Array%) is used.

If the Sheet is -1 then all Sheets are used.

If the Sheet is below 1 and different of -1, the Sheet 1 is used.

If the Sheet is greater than MULTIPLEDISKARRAY.nSheets(Array%), the Sheet

MULTIPLEDISKARRAY.nSheets(Array%) is used.

For MDAClearRow, MDAsClearRow:

If the Row is below 1, the Row 1 is used.

If the Row is greater than MULTIPLEDISKARRAY.nRows(Array%), the Row MULTIPLEDISKARRAY.nRows(Array%) is used.

If the Sheet is -1 then all Sheets are used.

If the Sheet is below 1 and different of -1, the Sheet 1 is used.

If the Sheet is greater than MULTIPLEDISKARRAY.nSheets(Array%), the Sheet

MULTIPLEDISKARRAY.nSheets(Array%) is used.

Examples:

Dim ErrCode As Integer

Dim MDA As tagMULTIPLEDISKARRAY

MDA.nFilename = "c:\t2w_tmp\mda.tmp" 'name of the file to use

MDA.nType(1) = 50 'positive value for a string

MDA.nIsTyped(1) = False 'init the array with spaces

MDA.nRows(1) = 500 '500 rows

MDA.nCols(1) = 500 '500 cols

MDA.nSheets(1) = 2 '2 sheets

ErrCode = cMDACreate(MDA, True) 'create a new multiple big sized

array on disk

Call cMDAPut(1, MDA, 1, 1, 1, "D:1, ABCDEFGHIJ") 'save the string in Row 1, Col 1,

Sheet 1, Array 1

Call cMDAPut(1, MDA, 1, MDA.nCols(1), 1, "D:1, abcdefghij") 'save the string in Row 1, Col 500,

Sheet 1, Array 1

Call cMDAPut(1, MDA, MDA.nRows(1), 1, 1, "D:1, OPQRSTUVWXYZ") 'save the string in Row 500, Col 1,

Sheet 1, Array 1

Call cMDAPut(1, MDA, MDA.nRows(1), MDA.nCols(1), 1, "D:1, oprqstuvwxyz") 'save the string in Row 500, Col

500, Sheet 1, Array 1

'..... some codes

ErrCode = cMDAClear(1, MDA) 'clear all elements in the multiple big sized array on disk 'clear all elements in the multiple

ErrCode = cMDAClearSheet(1, MDA, 1) 'clear the Sheet 1 in the multiple big

sized array on disk

ErrCode = cMDAClearCol(1, MDA, MDA.nCols(1), 2) big sized array on disk
ErrCode = cMDAsClearCol(1, MDA, MDA.nCols(1)) big sized array on disk

ErrCode = cMDAClearRow(1, MDA, MDA.nRows(1), 2) big sized array on disk
ErrCode = cMDAsClearRow(1, MDA, MDA.nRows(1), 1) big sized array on disk

See also: Multiple Disk Array

'clear the last Col in Sheet 2 in the

'clear the last Col in Sheet 1 in the

'clear the last Row in Sheet 2 in the

'clear the last Row in Sheet 1 in the

Multiple disk array: Overview

The functions/subs used in the Multiple Disk Array routines handle big sized arrays on disk in only file.

Each array use only a file to handle the information. A file can contain 20 big sized arrays.

The concept of big sized arrays on disk is to use the mass storage (hard disk) in place of memory. This concept minimize the use of the memory for big array but decrease the speed to accessing data.

A fixed string array of 500 rows by 500 cols, 2 Sheets and a string size of 50 take 25.000.000 bytes. I think that this is better to place this array on the disk.

The following functions/subs are used to handle big sized arrays on disk:

MDAClear clear a multiple big sized array.

MDAClearCol clear a single col on on a sheet in a multiple big sized array.

MDAClearRow clear a single row on a sheet in a multiple big sized array.

MDAClearSheet clear a single sheet in a multiple big sized array.

MDAClose close a big sized array and keep it or close a multiple big sized array and destroy it.

MDACreate create a new big sized array on disk or use an existing multiple big sized array on disk.

MDAGetread an element from a multiple big sized array on disk.MDAGetTyperead a type'd variable from a multiple big sized array on disk.MDAPutsave an element to a multiple big sized array on disk.MDAPutTypesave a type'd variable to a multiple big sized array on disk.

<u>MDArGet</u>
<u>MDArGetType</u>
<u>MDArPut</u>

<u>MDArPutType</u>

MDArPutType

read an element from a multiple big sized array on disk with only one sheet and one row. save an element to a multiple big sized array on disk with only one sheet and one row. save an element to a multiple big sized array on disk with only one sheet and one row. save a type'd variable to a multiple big sized array on disk with only one sheet and one

row.

MDAsClearCol clear a single col on on a sheet in a multiple big sized array with only one sheet.

MDAsClearRow
MDAsGet
MDAsGetType
MDAsPut
MDAsPut
MDAsPutType
MDA

To minimize the use of too many functions for the different variable type in VB, <u>MDAGet</u> and <u>MDAPut</u> uses variant value (integer, long, single, double, currency, string). This can be slow down (a little bit) the speed for accessing the data.

To handle type'd variable, you must use MDAGetType, MDAPutType.

When you create a new multiple array on disk, a header (640 chars for VB 3.0 and VB 4.0 (16-Bit)) is writed to begin of the associated file. This header is readed when you re-use an existing array to verify that this is a good big sized disk array.

Actually, the maximum number of chars for a string element or for a type'd variable is 4096.

MDACreate

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MDACreate create a multiple new big sized array on disk or use an existing multiple big sized array on disk.

Declare Syntax:

Declare Function cMDACreate Lib "time2win.dll" (MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal CreateOrUse As Integer) As Integer

Call Syntax:

ErrCode% = cMDACreate(MDA, CreateOrUse%)

Where:

MULTIPLEDISKARRAY is a type'd variable (tagMULTIPLEDISKARRAY).

CreateOrUse% TRUE: if you want to create a new big sized array on disk,

FALSE: if you want to re-use an existing big sized array on disk.

ErrCode% is the returned <u>error code</u>.

Comments:

In theory:

The maximum number of Arrays is 20 The maximum number of Rows is 2147483647 The maximum number of Cols is 2147483647 The maximum number of Sheets is 2147483647

You are only limited by the size of the disk on which the big sized array are defined.

The length of the filename can be 64 chars for VB 3.0 and VB 4.0 (16-Bit), 128 chars for VB 4.0 (32-Bit) maximum.

If you create a new multiple big sized array on disk and if the file is already exists, the file is deleted before used. If you re-use an existing multiple big sized array on disk, some checkings are made to verify the validity of the multiple big sized array on disk.

Bigger are nRows, nCols or nSheets, bigger is the time to initialize.

DA.nSheets(20) = 2

When you create a new multiple big sized array on disk, the only parameters that you must initialize are:

DA.nFilename = "c:\t2w_tmp\dastring.tmp" 'name of the file (you must have enough space on the drive). DA.nType(1) = 50'the type of the variable to use, see Constants and Types declaration. (DA x) DA.nlsTyped(1) = False'Must be True for a type'd variable for Array 1. DA.nRows(1) = 500'the number of rows to use for Array 1. DA.nCols(1) = 500'the number of cols to use for Array 1. DA.nSheets(1) = 2'the number of sheets to use for Array 1. .../... DA.nType(20) = 25'the type of the variable to use, see Constants and Types declaration. (DA_x) $DA.nlsTyped(\overline{20}) = False$ 'Must be True for a type'd variable for Array 20. DA.nRows(20) = 500'the number of rows to use for Array 20. DA.nCols(20) = 500'the number of cols to use for Array 20.

'the number of sheets to use for Array 20.

YOU CAN'T CHANGE THESE PARAMETERS AFTER THE CREATION OF THE MULTIPLE BIG SIZED ARRAY.

YOU CAN'T CHANGE THE OTHER VALUES IN THE TYPE'D VARIABLE.

Don't forget that you create the multiple array of maximum 20 arrays in one call. The order is not important, but you must take in mind that if you use only 3 arrays on the 20, there are only initialization for these 3 arrays and you can't insert other arrays.

When you create a new array, all elements are initialized with chr\$(0) except for string array which are initialized with chr\$(32) (spaces).

However, string array and type'd array use the same positive value to define in .nType, but the type'd array must be initialized with chr\$(0) not with chr\$(32) therefore for a type'd you must specify .nlsTyped on True to initialize it with chr\$(0).

If you use multiple big size array of type'd variable, the type'd variable can be only a mix of fixed variable (variable string length can't be used).

Examples:

Dim ErrCode As Integer

Dim MDA As tagMULTIPLEDISKARRAY

Dim Var(1 To 8) As Variant

DA.nType(1) = 50 'positive value for a string (array 1)
DA.nIsTyped(1) = False 'init the array with spaces (array 1)

 $\begin{array}{ll} \text{DA.nType(9) = 25} & \text{'positive value for a string (array 9)} \\ \text{DA.nIsTyped(9) = False} & \text{'init the array with spaces (array 9)} \\ \text{DA.nRows(9) = 100} & \text{'100 rows (array 9)} \end{array}$

DA.nCols(9) = 100 '100 cols (array 9)
DA.nSheets(9) = 5 '5 sheets (array 9)

ErrCode = cMDACreate(MDA, True) 'create a new multiple big sized

array on disk

Call cMDAPut(1, MDA, 1, 1, 1, "D:1, ABCDEFGHIJ") 'save the string in Row 1, Col 1,

Sheet 1, Array 1

Call cMDAPut(1, MDA, 1, DA.nCols(1), 1, "D:1, abcdefghij") 'save the string in Row 1, Col 500,

Sheet 1, Array 1

Call cMDAPut(1, MDA, DA.nRows(1), 1, 1, "D:1, OPQRSTUVWXYZ") 'save the string in Row 500, Col 1,

Sheet 1. Array 1

Call cMDAPut(1, MDA, DA.nRows(1), DA.nCols(1), 1, "D:1, oprgstuvwxyz") 'save the string in Row 500, Col

500, Sheet 1, Array 1

Call cMDAPut(9, MDA, 1, 1, 5, "D:2, 1234567890") 'save the string in Row 1, Col 1,

Sheet 5, Array 9

Call cMDAPut(9, MDA, 1, MDA.nCols(9), 5, "D:2, 0987654321") 'save the string in Row 1, Col 100,

Sheet 5, Array 9

Call cMDAPut(9, MDA, MDA.nRows(9), 1, 5, "D:2, 12345ABCDE") 'save the string in Row 100, Col 1,

Sheet 5, Array 9

Call cMDAPut(9, MDA, MDA.nRows(9), MDA.nCols(9), 5, "D:2, VWXYZ54321") 'save the string in Row 100, Col

100, Sheet 5, Array 9

Var(1) = cMDAGet(1, MDA, 1, 1, 1) 'read the string in Row 1, Col 1,

Sheet 1, Array 1

Var(2) = cMDAGet(1, MDA, 1, MDA.nCols(1), 1) 'read the string in Row 1, Col 500,

Sheet 1, Array 1

'read the string in Row 500, Col 1, Var(3) = cMDAGet(1, MDA, MDA.nRows(1), 1, 1) Sheet 1, Array 1 Var(4) = cMDAGet(1, MDA, MDA.nRows(1), MDA.nCols(1), 1) 'read the string in Row 500, Col 500, Sheet 1, Array 1 Var(5) = cMDAGet(9, MDA, 1, 1, 5) 'read the string in Row 1, Col 1, Sheet 5, Array 9 Var(6) = cMDAGet(9, MDA, 1, MDA.nCols(9), 5) 'read the string in Row 1, Col 100, Sheet 5, Array 9 Var(7) = cMDAGet(9, MDA, MDA.nRows(9), 1, 5) 'read the string in Row 100, Col 1, Sheet 5, Array 9 Var(8) = cMDAGet(9, MDA, MDA.nRows(9), MDA.nCols(9), 5) 'read the string in Row 100, Col

'close the file without delete it.

Call cMDAClose(MDA, False)

100, Sheet 5, Array 9

See also: Multiple Disk Array

MDAGet, MDAsGet, MDArGet

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MDAGet read an element from a multiple big sized array on disk.

MDArGet have the same functionnality but with a multiple big sized array with only one sheet and only one row. MDAsGet have the same functionnality but with a multiple big sized array with only one sheet.

Declare Syntax:

Declare Function cMDAGet Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long) As Variant Declare Function cMDArGet Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Col As Long) As Variant Declare Function cMDAsGet Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Col As Long) As Variant

Call Syntax:

Var = cMDAGet(Array%, MULTIPLEDISKARRAY, Row&, Col&, Sheet&) Var = cMDAGet(Array%, MULTIPLEDISKARRAY, Col&, Sheet&) Var = cMDAGet(Array%, MULTIPLEDISKARRAY, Row&, Col&)

Where:

MULTIPLEDISKARRAY is a type'd variable (tagMULTIPLEDISKARRAY).

Array% is the array in the multiple array (must be between 1 to 20).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

Var is the readed variant value depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used. If the Col is below 1, the Col 1 is used. If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than MULTIPLEDISKARRAY.nRows(Array%), the Row MULTIPLEDISKARRAY.nRows(Array%) is used.

If the CoI is greater than MULTIPLEDISKARRAY.nCoIs(Array%), the CoI MULTIPLEDISKARRAY.nCoIs(Array%) is used.

If the Sheet is greater than MULTIPLEDISKARRAY.nSheets(Array%), the Sheet MULTIPLEDISKARRAY.nSheets(Array%) is used.

Examples:

see MDACreate

See also: Multiple Disk Array, MDAPut

MDAPut, MDAsPut, MDArPut

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

MDAPut save an element to a big sized array on disk.

MDArPut have the same functionnality but with a multiple big sized array with only one sheet and only one row.

MDAsPut have the same functionnality but with a multiple big sized array with only one sheet.

Declare Syntax:

Declare Sub cMDAPut Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, Var As Variant) Declare Sub cMDArPut Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Col As Long) As Variant Declare Sub cMDAsPut Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Col As Long, Var As Variant)

Call Syntax:

Call cMDAPut(Array%, MULTIPLEDISKARRAY, Row&, Col&, Sheet&, Var) Call cMDArPut(Array%, MULTIPLEDISKARRAY, Col&, Var) Call cMDAsPut(Array%, MULTIPLEDISKARRAY, Row&, Col&, Var)

Where:

MULTIPLEDISKARRAY is a type'd variable (tagMULTIPLEDISKARRAY).

Array% is the array in the multiple array (must be between 1 to 20).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

Var is the variant value to save depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used. If the Col is below 1, the Col 1 is used. If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than MULTIPLEDISKARRAY.nRows(Array%), the Row MULTIPLEDISKARRAY.nRows(Array%) is used.

If the CoI is greater than MULTIPLEDISKARRAY.nCoIs(Array%), the CoI MULTIPLEDISKARRAY.nCoIs(Array%) is used.

If the Sheet is greater than MULTIPLEDISKARRAY.nSheets(Array%), the Sheet MULTIPLEDISKARRAY.nSheets(Array%) is used.

Examples:

see MDACreate

See also: Multiple Disk Array, MDAGet

MDAGetType, MDAsGetType, MDArGetType

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

MDAGetType read a type'd variable from a multiple big sized array on disk.

MDArGetType have the same functionnality but with a multiple big sized array with only one sheet and only one row. MDAsGetType have the same functionnality but with a multiple big sized array with only one sheet.

Declare Syntax:

Declare Sub cMDAGetType Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, nType As Any) Declare Sub cMDArGetType Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Col As Long, nType As Any) Declare Sub cMDAsGetType Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Col As Long, nType As Any)

Call Syntax:

Call cMDAGetType(Array%, MULTIPLEDISKARRAY, Row&, Col&, Sheet&, nType) Call cMDArGetType(Array%, MULTIPLEDISKARRAY, Col&, nType) Call cMDAsGetType(Array%, MULTIPLEDISKARRAY, Row&, Col&, nType)

Where:

MULTIPLEDISKARRAY is a type'd variable (tagMULTIPLEDISKARRAY).

Array% is the array in the multiple array (must be between 1 to 20).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

nType is the readed type'd variable depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used. If the Col is below 1, the Col 1 is used. If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than MULTIPLEDISKARRAY.nRows(Array%), the Row MULTIPLEDISKARRAY.nRows(Array%) is used.

If the Col is greater than MULTIPLEDISKARRAY.nCols(Array%), the Col MULTIPLEDISKARRAY.nCols(Array%) is used.

If the Sheet is greater than MULTIPLEDISKARRAY.nSheets(Array%), the Sheet MULTIPLEDISKARRAY.nSheets(Array%) is used.

Examples:

Dim ErrCode As Integer

Dim MDA As tagMULTIPLEDISKARRAY

Dim TE(1 To 4) As tagTASKENTRY

MDA.nType(1) = Len($TE(\overline{1})$) 'positive value for a type'd variable MDA.nlsTyped(1) = True 'init the array with chr\$(0) because type'd

variable

ErrCode = cMDACreate(MDA, False) disk

'use a created multiple big sized array on

Call cDAGetType(1, MDA, 1, 1, 1, TE(1))

Sheet 1, Array 1.

Call cDAGetType(1, MDA, 1, DA.nCols(1), 1, TE(2))

Sheet 1, Array 1.

Call cDAGetType(1, MDA, MDA.nRows(1), 1, 1, TE(3))

Sheet 1, Array 1.

Call cDAGetType(1, MDA, MDA.nRows(1), MDA.nCols(1), 1, TE(4))

500, Sheet 1, Array 1.

See also: Multiple Disk Array, MDAPutType

'read the type'd variable in Row 1, Col 1,

'read the type'd variable in Row 1, Col 500,

'read the type'd variable in Row 500, Col 1,

'read the type'd variable in Row 500, Col

MDAPutType, MDAsPutType, MDArPutType

QuickInfo: VB 3.0. VB 4.0 (16-Bit), VB 4.0 (32-Bit) VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

MDAPutType save a type'd variable from a big sized array on disk.

MDArPutType have the same functionnality but with a big sized array with only one sheet and only one row.

MDAsPutType have the same functionnality but with a big sized array with only one sheet.

Declare Syntax:

Declare Sub cMDAPutType Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, nType As Any) Declare Sub cMDArPutType Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Col As Long, nType As Any) Declare Sub cMDAsPutType Lib "time2win.dll" (ByVal Array As Integer, MULTIPLEDISKARRAY As tagMULTIPLEDISKARRAY, ByVal Row As Long, ByVal Col As Long, nType As Any)

Call Syntax:

Call cMDAPutType(Array%, MULTIPLEDISKARRAY, Row&, Col&, Sheet&, nType) Call cMDArPutType(Array%, MULTIPLEDISKARRAY, Row&, nType) Call cMDAsPutType(Array%, MULTIPLEDISKARRAY, Row&, Col&, nType)

Where:

is a type'd variable (tagMULTIPLEDISKARRAY). MULTIPLEDISKARRAY

Array% is the array in the multiple array (must be between 1 to 20).

is the row. Row& Col& is the col. Sheet& is the sheet.

is the type'd variable to save depending of the variable type used in the creation. nType

Comments:

If the Row is below 1, the Row 1 is used. If the Col is below 1, the Col 1 is used. If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than MULTIPLEDISKARRAY.nRows(Array%), the Row MULTIPLEDISKARRAY.nRows(Array%) is used.

If the Col is greater than MULTIPLEDISKARRAY.nCols(Array%), the Col MULTIPLEDISKARRAY.nCols(Array%) is used.

If the Sheet is greater than MULTIPLEDISKARRAY.nSheets(Array%), the Sheet MULTIPLEDISKARRAY.nSheets(Array%) is used.

Examples:

Dim ErrCode As Integer

Dim MDA As tagMULTIPLEDISKARRAY

Dim TE As tagTASKENTRY

DA.nFilename = "c:\t2w tmp\datype.tmp" 'name of the file to use

'positive value for a type'd variable DA.nType(1) = Len(TE)DA.nlsTyped(1) = True'init the array with chr\$(0) because type'd

variable

DA.nRows(1) = 500'500 rows '500 cols DA.nCols(1) = 500DA.nSheets(1) = 2'2 sheets

ErrCode = cMDACreate(MDA, True)

'create a new multiple big sized array on disk

'save the type'd variable in Row 1, Col 1,

ErrCode = cTasks(TE, True)

Call cMDAPutType(1, MDA, 1, 1, 1, TE)

Sheet 1, Array 1.

ErrCode = cTasks(TE, False)

Call cMDAPutType(1, MDA, 1, MDA.nCols(1), 1, TE)

Sheet 1, Array 1.

ErrCode = cTasks(TE, False)

Call cMDAPutType(1, MDA, MDA.nRows(1), 1, 1, TE)

Sheet 1, Array 1.

ErrCode = cTasks(TE, False)

Call cMDAPutType(1, MDA, MDA.nRows(1), MDA.nCols(1), 1, TE)

500, Sheet 1, Array 1.

'save the type'd variable in Row 500, Col 1,

'save the type'd variable in Row 1, Col 500,

'save the type'd variable in Row 500, Col

See also: Multiple Disk Array, MDAGetType

FromBinary, FromBinary2, ToBinary, ToBinary2

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FromBinary converts a binary string (0, 1) to a string FromBinary2 converts a binary string (custom letters) to a string

ToBinary converts a string to a binary representation with 0, 1
ToBinary2 converts a string to a binary representation with two custom letters for 0, 1 representation

Declare Syntax:

Declare Function cFromBinary Lib "time2win.dll" (Text As String) As String Declare Function cFromBinary2 Lib "time2win.dll" (Text As String, Bin As String) As String

Declare Function cToBinary Lib "time2win.dll" (Text As String) As String Declare Function cToBinary2 Lib "time2win.dll" (Text As String, Bin As String) As String

Call Syntax:

```
test$ = cFromBinary(Text)
test$ = cFromBinary2(Text, Bin)
test$ = cToBinary(Text)
test$ = cToBinary2(Text, Bin)
```

Where:

Text the string to proceed

Bin the two custom letters for 0, 1 representation

test\$ the result

Comments:

Examples:

```
test$ = cToBinary("MC") -> "0100110101000011" test$ = cToBinary2("MC","mc") -> "cmccmmcmccccmm" test$ = cFromBinary("01001101000011") -> "MC"
```

2-D Geometry: Overview

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

V2Add add two 2D vectors.

V2Sub substract two 2D vectors.

V2Combine combine two 2D vectors.

V2Copy copy a 2D vector into an another.

V2Dot calculate the dot of two 2D vectors.

V2Length calculate the length (magnitude) of a 2D vector.

V2Length calculate the length squared (magnitude squared) of a 2D vector.

V2LinearLp perform the linear interpolation of two 2D vector.

V2Mul multiply two 2D vector.

V2Neg perform the negate of a 2D vector.

V2Normalized normalize a 2D vector.

V2Ortho perform the orthogonal transformation of two 2D vector.

V2ScaledNewLength change the x,y of a 2D vector from a new length (magnitude).

V2SegmentLength calculate the length of the segment between the two 2D vector.

Declare Syntax:

Declare Sub cV2Add Lib "time2win.dll" (u As tagVECTOR2, v As tagVECTOR2, w As tagVECTOR2)

Declare Sub cV2Sub Lib "time2win.dll" (u As tagVECTOR2, v As tagVECTOR2, w As tagVECTOR2)

Declare Sub cV2Combine Lib "time2win.dll" (u As tagVECTOR2, ByVal c1 As Double, v As tagVECTOR2, ByVal c2 As Double, w As tagVECTOR2)

Declare Sub cV2Copy Lib "time2win.dll" (u As tagVECTOR2, w As tagVECTOR2)

Declare Function cV2Dot Lib "time2win.dll" (u As tagVECTOR2, v As tagVECTOR2) As Double

Declare Function cV2Length Lib "time2win.dll" (u As tagVECTOR2) As Double

Declare Function cV2LengthSquared Lib "time2win.dll" (u As tagVECTOR2) As Double

Declare Sub cV2LinearIp Lib "time2win.dll" (lo As tagVECTOR2, hi As tagVECTOR2, ByVal alpha As Double, w As tagVECTOR2)

Declare Sub cV2Mul Lib "time2win.dll" (u As tagVECTOR2, v As tagVECTOR2, w As tagVECTOR2)

Declare Sub cV2Neg Lib "time2win.dll" (u As tagVECTOR2)

Declare Sub cV2Normalized Lib "time2win.dll" (u As tagVECTOR2)

Declare Sub cV2Ortho Lib "time2win.dll" (u As tagVECTOR2, w As tagVECTOR2)

Declare Sub cV2ScaledNewLength Lib "time2win.dll" (u As tagVECTOR2, ByVal newlen As Double)

Declare Function cV2SegmentLength Lib "time2win.dll" (p As tagVECTOR2, q As tagVECTOR2) As Double

See also: 3-D Geometry

Where :		
Comments :		
Examples :		

3-D Geometry: Overview

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

V3Add add two 3D vectors.

V3Sub substract two 3D vectors.

V3Combine combine two 3D vectors.

V3Copy copy a 3D vector into an another.

V3Dot calculate the dot of two 3D vectors.

V3Length calculate the length (magnitude) of a 3D vector.

V3Length calculate the length squared (magnitude squared) of a 3D vector.

V3LinearLp perform the linear interpolation of two 3D vector.

V3Mul multiply two 3D vector.

V3Neg perform the negate of a 3D vector.

V3Normalized normalize a 3D vector.

V3Ortho perform the orthogonal transformation of two 3D vector.

V3ScaledNewLength change the x,y of a 3D vector from a new length (magnitude).

V3SegmentLength calculate the length of the segment between the two 3D vector.

3DWeightAverage calculate the z value of an additional point from four points.

Declare Syntax:

Declare Sub cV3Add Lib "time2win.dll" (u As tagVECTOR3, v As tagVECTOR3, w As tagVECTOR3)

Declare Sub cV3Sub Lib "time2win.dll" (u As tagVECTOR3, v As tagVECTOR3, w As tagVECTOR3)

Declare Sub cV3Combine Lib "time2win.dll" (u As tagVECTOR3, ByVal c1 As Double, v As tagVECTOR3, ByVal c2 As Double, w As tagVECTOR3)

Declare Sub cV3Copy Lib "time2win.dll" (u As tagVECTOR3, w As tagVECTOR3)

Declare Sub cV3Cross Lib "time2win.dll" (u As tagVECTOR3, v As tagVECTOR3, w As tagVECTOR3)

Declare Function cV3Dot Lib "time2win.dll" (u As tagVECTOR3, v As tagVECTOR3) As Double

Declare Function cV3Length Lib "time2win.dll" (u As tagVECTOR3) As Double

Declare Function cV3LengthSquared Lib "time2win.dll" (u As tagVECTOR3) As Double

Declare Sub cV3Linearlp Lib "time2win.dll" (lo As tagVECTOR3, hi As tagVECTOR3, ByVal alpha As Double, w As tagVECTOR3)

Declare Sub cV3Mul Lib "time2win.dll" (u As tagVECTOR3, v As tagVECTOR3, w As tagVECTOR3)

Declare Sub cV3Neg Lib "time2win.dll" (u As tagVECTOR3)

Declare Sub cV3Normalized Lib "time2win.dll" (u As tagVECTOR3)

Declare Sub cV3ScaledNewLength Lib "time2win.dll" (u As tagVECTOR3, ByVal newlen As Double)

Declare Function cV3SegmentLength Lib "time2win.dll" (p As tagVECTOR3, q As tagVECTOR3) As Double Declare Function c3DWeightAverage Lib "time2win.dll" (ul3D As tagVECTOR3, ll3D As tagVECTOR3, lr3D As

tagVECTOR3, ur3D As tagVECTOR3, ptToLocate3D As tagVECTOR3) As Double

Call Syntax :			
Where :			
Comments :			

Examples:

For 3DWeightAverage:

Dim uLeft3D As tagVECTOR3 Dim ILeft3D As tagVECTOR3

```
Dim IRight3D
                        As tagVECTOR3
Dim uRight3D
                        As tagVECTOR3
Dim ptToLocate3D
                        As tagVECTOR3
uLeft3D.x = 11
uLeft3D.y = 21
uLeft3D.z = 20
ILeft3D.x = 11
ILeft3D.y = 15
ILeft3D.z = 17
IRight3D.x = 17
IRight3D.y = 15
IRight3D.z = 21
uRight3D.x = 17
uRight3D.y = 21
uRight3D.z = 30
ptToLocate3D.x = 15
ptToLocate3D.y = 20
ptToLocate3D.z = 0
Debug.Print c3DWeightAverage(uLeft3D, ILeft3D, IRight3D, uRight3D, ptToLocate3D)
                                                                                                '->
24,0609108270454
ptToLocate3D.x = 15
ptToLocate3D.y = 19
ptToLocate3D.z = 0
Debug.Print c3DWeightAverage(uLeft3D, ILeft3D, IRight3D, uRight3D, ptToLocate3D)
                                                                                                '->
23,3029834668893
```

See also: 2-D Geometry

TimerClose, TimerOpen, TimerRead, TimerStart

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

TimerOpen open a timer and return an handle of an available timer (1 to 64).

TimerStart start the selected timer's handle.

TimerRead read the current value of the selected timer's handle.

TimerClose close the selected timer's handle.

Declare Syntax:

Declare Function cTimerOpen Lib "time2win.dll" () As Integer Declare Function cTimerStart Lib "time2win.dll" (ByVal TimerHandle As Long) As Integer Declare Function cTimerRead Lib "time2win.dll" (ByVal TimerHandle As Long) As Long Declare Function cTimerClose Lib "time2win.dll" (ByVal TimerHandle As Long) As Integer

Call Syntax:

TimerHandle% = cTimerOpen()
StartOk% = cTimerStart(TimerHandle%)
Test& = cTimerRead(TimerHandle%)
CloseOk% = cTimerClose(TimerHandle%)

Where:

TimerHandle% >0 is one timer is available, = 0 if no timers available..

StartOk% TRUE if the starting is successfully,

FALSE if the starting fail.

Test& is the current value of the specified timer handle.

CloseOk% TRUE if the closing is successfully,

FALSE if the closing fail.

Comments:

These timers functions is independant of the calling program.

The value of timers is in milliseconds. The accuracy of timers is 1 milliseconds.

Examples:

Dim TimerHandle As Integer
Dim TimerValue As Long

Dim iAs LongDim nAs LongDim StartOkAs IntegerDim CloseOkAs Integer

TimerHandle = cTimerOpen() StartOk = cTimerStart(TimerHandle)

For i = 1 To 54321 n = i * 2 Next i

MsgBox "Time (in milliseconds) to perform the test is " & cTimerRead(TimerHandle) & " milliseconds"

CloseOk = cTimerClose(TimerHandle)

' On my system : "Time (in milliseconds) to perform the test is 330"

See also : $\underline{\mathsf{Timer}}$

Timer: Overview

Timer functions performs timing functions for your application. These functions are divided in two parts:

1) Timing which use the GetTickCount() have an accuracy of **55** ms, these functions are available for all applications in memory and share the same memory space. You can have 32 timers. Be carefully, when distributing the DLL on an other computer did use the same DLL.

CheckWait check if the specified timer has reached the time to wait.

ReadBasisTimer
ReadTimer
SetWait

read the value of the default timer.
read the value of the specified timer.
set the time to wait in a specified timer.

Sleep suspend the current execution of a routine for a given delay.

StartBasisTimerstart the default timer.StartTimerstart the specified timer.StartWaitstart the specified timer.

<u>StopBasisTimer</u> stop the value of the default timer. <u>StopTimer</u> stop the value of the specified timer.

2) Timing which use the TimerCountt() have an accuracy of **1** ms, these functions use the concept of handle to permit to have many different application which can use the DLL. You can have 64 handles.

<u>TimerOpen</u> open a timer and return an handle of an available timer (1 to 64).

<u>TimerStart</u> start the selected timer's handle.

<u>TimerRead</u> read the current value of the selected timer's handle.

TimerClose close the selected timer's handle.

Sleep

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Sleep suspend the current execution of a routine for a given delay.

Declare Syntax:

Declare Function cSleep Lib "time2win.dll" (ByVal Delay As Long) As Integer

Call Syntax:

status% = cSleep(Delay)

Where:

Delay is the time to sleep the current execution of a routine in milliseconds.

status% TRUE if all is OK

FALSE if the delay is below 0.

Comments:

Use this function with care. Don't set a delay to bigger. Don't forget that the delay is in milliseconds.

Examples:

Dim status As Integer

status% = cSleep(-10) -> Don't sleep, the delay is negative value.

status% = cSleep(0) -> A very short sleeping. status% = cSleep(7000) -> Sleep for 7 seconds

Call cStartBasisTimer status = cSleep(7000)

MsgBox "Time elapsed for the current sleeping is " & cReadBasisTimer() & " milliseconds"

See also: Timer

^{&#}x27;On my system: "Time elapsed for the current sleeping is 7031 milliseconds"

ReadBasisTimer, StartBasisTimer, StopBasisTimer

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, MSOffice 95

Purpose:

StartBasisTimer start the default timer.
ReadBasisTimer read the value of the default timer.
StopBasisTimer stop the value of the default timer.

Declare Syntax:

Declare Sub cStartBasisTimer Lib "time2win.dll" ()
Declare Function cReadBasisTimer Lib "time2win.dll" () As Long
Declare Sub cStopBasisTimer Lib "time2win.dll" ()

Call Syntax:

Call cStartBasisTimer test& = cReadBasisTimer() Call cReadBasisTimer

Where:

test& the current value of the default timer.

Comments:

The value of the timer is in milliseconds. The accuracy of the timer is 55 milliseconds (1/18.2 second).

Examples:

Dim i as Long Dim n as Long

Call cStartBasisTimer For i = 1 To 123456 n = i * 2

Next i

MsgBox "Time (in milliseconds) to perform the test is " & cReadBasisTimer() & " milliseconds"

'On my system: "Time (in milliseconds) to perform the test is 769"

See also : $\underline{\text{Timer}}$

ReadTimer, StartTimer, StopTimer

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

StartTimer start the specified timer.

ReadTimer read the value of the specified timer.

StopTimer stop the value of the specified timer.

Declare Syntax:

Declare Sub cStartTimer Lib "time2win.dll" (ByVal nTimer As Integer)
Declare Function cReadTimer Lib "time2win.dll" (ByVal nTimer As Integer) As Long
Declare Function cStopTimer Lib "time2win.dll" (ByVal nTimer As Integer) As Long

Call Syntax:

Call cStartTimer(nTimer) test& = cReadTimer(nTimer) test& = cStopTimer(nTimer)

Where:

nTimer is the timer counter between 1 to 32. test& is the current value of the specified timer.

Comments:

The value of timers is in milliseconds. The accuracy of timers is 55 milliseconds (1/18.2 second).

Examples:

Dim i as Long Dim n as Long

Call cStartTimer(7) For i = 1 To 54321 n = i * 2 Next i

MsgBox "Time (in milliseconds) to perform the test is " & cReadTimer(7) & " milliseconds"

See also: Timer

^{&#}x27;On my system: "Time (in milliseconds) to perform the test is 330"

CheckWait, SetWait, StartWait

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SetWait set the time to wait in a specified timer.

StartWait start the specified timer.

CheckWait check if the specified timer has reached the time to wait.

Declare Syntax:

Declare Sub cSetWait Lib "time2win.dll" (ByVal nTimer As Integer, ByVal nValue As Long) Declare Sub cStartWait Lib "time2win.dll" (ByVal nTimer As Integer) Declare Function cCheckWait Lib "time2win.dll" (ByVal nTimer As Integer) As Integer

Call Syntax:

Call cSetWait(nTimer, nValue)
Call cStartWait(nTimer)
test% = cCheckWait(nTimer)

Where:

nTimer is the timer counter between 1 TO 32.

nValue is the value to wait in milliseconds.

TRUE if the time to wait is reached.

FALSE is the time to wait is not reached.

Comments:

The value of timers is in milliseconds. The accuracy of timers is 55 millisecond (1/18.2 second).

Examples:

```
Dim i As Long
Dim n As Long

i = 0
Call cStartTimer(32)
Call cSetWait(7, 1000)
Call cStartWait(7)
Do Until (cCheckWait(7) = True)
i = i + 1
n = i * 2
Loop
```

MsgBox "Total iterations in 1 second (1000 milliseconds) is " & i & ", waiting time is " & cReadTimer(32) & " milliseconds"

See also : $\underline{\mathsf{Timer}}$

^{&#}x27;On my system: "Total iterations in 1 second (1000 milliseconds) is 54929, waiting time is 1043 milliseconds"

```
' structure for disk array
Type tagDISKARRAY
   daSize
                 As Integer
                                  'size of the type'd
   Signature
                 As String * 7
                                  'signature
                 As String * 128
   nFilename
                                  'name of the file
   nTypeAs Integer
                          'variable type
   nRows
                                  'number of rows
                 As Long
  nCols As Long
                          'number of cols
  nSheets
                 As Long
                                  'number of sheets
  rHandle
                                  'returned handle for use with other functions
                 As Long
  rElementSize As Long
                                  'returned size of a element
  rFileSize
                 As Long
                                  'returned size of the file
  rPartsAs Long
                          'returned total part
                 As Long
                                  'returned size of the remain part
  rRemain
                                  'size of a sheet
  rSheetSize
                 As Long
  rOffset1
                                  'returned offset 1
                 As Long
  rOffset2
                 As Long
                                  'returned offset 2
                          'time for the last correct transaction
   rTime As Long
   nlsTyped
                 As Integer
                                  'is nType a type'd variable
                 As String * 7
                                  'reserved for future use
   Dummy
End Type
' definition for variable type in disk array
Public Const DA TYPE = 0
Public Const DA_BYTE = -1
Public Const DA INTEGER = -2
Public Const DA LONG = -3
Public Const DA SINGLE = -4
Public Const DA DOUBLE = -5
Public Const DA CURRENCY = -6
' definition for error type in disk array
Public Const DA NO ERROR = True
Public Const DA_EMPTY_FILENAME = 1
Public Const DA_BAD_FILENAME = 2
Public Const DA_CAN_KILL_FILE = 3
Public Const DA_CAN_NOT_OPEN_FILE = 4
Public Const DA_FILE_NOT_FOUND = 5
Public Const DA_BAD_TYPE = 6
Public Const DA_BAD_ROWS = 7
Public Const DA_BAD_COLS = 8
Public Const DA BAD SHEETS = 9
Public Const DA_CAN_NOT_WRITE_HEADER = 10
Public Const DA_CAN_NOT_WRITE_PART = 11
Public Const DA_CAN_NOT_WRITE_REMAIN = 12
Public Const DA CAN NOT READ HEADER = 13
Public Const DA_HEADER_SIZE = 14
Public Const DA BAD SIGNATURE = 15
Public Const DA FILE SIZE MISMATCH = 16
Public Const DA CAN NOT SEEK = 17
Public Const DA INVALID HANDLE = 18
Public Const DA CAN NOT READ PART = 19
```

Public Const DA CAN NOT READ REMAIN = 20

```
' structure for multiple disk array
Type tagMULTIPLEDISKARRAY
   daSize
                                           'size of the structure
                          As Integer
   Signature
                          As String * 7
                                           'signature
                          As String * 128
   nFilename
                                           'name of the file
   nType(1 To 20)As Integer
                                  'standard variable type (for 20 arrays)
   nlsTyped(1 To 20)
                                           'is a type'd (for 20 arrays)
                          As Integer
                          As Long
                                           'number of rows (for 20 arrays)
   nRows(1 To 20)
                                  'number of cols (for 20 arrays)
  nCols(1 To 20) As Long
  nSheets(1 To 20)
                                           'number of sheets (for 20 arrays)
                          As Long
  rHandle
                                           'returned handle for use with other functions
                          As Long
  rFileSize
                          As Long
                                           'returned size of the file
                                           'returned size of a element (for 20 arrays)
  rElementSz(1 To 20)
                         As Long
                                           'size of a sheet (for 20 arrays)
  rSheetSz(1 To 20)
                          As Long
  rOffsetPos(1 To 20)
                                           'position of each array in the file (for 20 arrays)
                          As Long
  rOffset1
                                           'returned offset 1
                          As Long
  rOffset2
                          As Long
                                           'returned offset 2
                                  'time for the last correct transaction
   rTime
                 As Long
   Dummy
                          As String * 28
                                           'reserved for future use
End Type
' definition for variable type in multiple disk array
Public Const MDA TYPE = 0
Public Const MDA BYTE = -1
Public Const MDA INTEGER = -2
Public Const MDA LONG = -3
Public Const MDA SINGLE = -4
Public Const MDA DOUBLE = -5
Public Const MDA CURRENCY = -6
' definition for error type in multiple disk array
Public Const MDA NO ERROR = -1
Public Const MDA EMPTY FILENAME = 1
Public Const MDA BAD FILENAME = 2
Public Const MDA_CAN_KILL_FILE = 3
Public Const MDA_CAN_NOT_OPEN_FILE = 4
Public Const MDA_FILE_NOT_FOUND = 5
Public Const MDA_BAD_TYPE = 6
Public Const MDA_BAD_ROWS = 7
Public Const MDA BAD COLS = 8
Public Const MDA_BAD_SHEETS = 9
Public Const MDA_CAN_NOT_WRITE_HEADER = 10
Public Const MDA_CAN_NOT_WRITE_PART = 11
Public Const MDA_CAN_NOT_WRITE_REMAIN = 12
Public Const MDA CAN NOT READ HEADER = 13
Public Const MDA HEADER SIZE = 14
Public Const MDA BAD SIGNATURE = 15
Public Const MDA FILE SIZE MISMATCH = 16
Public Const MDA_CAN_NOT_SEEK = 17
Public Const MDA INVALID HANDLE = 18
Public Const MDA_CAN_NOT_READ PART = 19
Public Const MDA CAN NOT READ REMAIN = 20
```

Public Const MDA BAD MULTIPLE ARRAY = 21

IEEEnum: Overview

CVB, CVC, CVD, CVI, CVL and CVS returns number in a certain precision given a string containing the IEEE representation of the number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG and SINGLE.

CVSMBF returns a Single number given a string containing the Microsoft Binary Format representation of the number.

CVB CVC CVD CVI CVL CVS CVSMBF

MKB, MKC, MKD, MKI, MKL, and MKS returns a string containing the IEEE representation of a number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG, SINGLE. MKN returns a string containing the IEEE representation of a big double number. The big double is not a part of the standard variable type of VB.

MKSMBF returns a string containing the Microsoft Binary Format representation of a number.

MKB MKC MKD MKI MKL MKN MKS MKSMBF

GetCVB, GetCVD, GetCVI, GetCVI, GetCVL and GetCVS returns number in a certain precision given a string containing the IEEE representation of the number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG and SINGLE. These functions is a fully replacement of the cCVx(MID\$(string, offset, length)).

GetCVB GetCVC GetCVD GetCVI GetCVL GetCVS

PutMKB, PutMKC, PutMKD, PutMKI, PutMKL, and PutMKS returns a string containing the IEEE representation of a number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG, SINGLE. These functions is a fully replacement of the Mid\$(string, offset, length) = Value.

PutMKB PutMKC PutMKD PutMKI PutMKL PutMKS

Binary: Overview

B21 convert a binary string into an integer variable.
B2L convert a binary string into a long variable.

<u>CreateBits</u> create a string which containes how many bits specified by a number. <u>FindBitReset</u> find the first bit Reset starting at the position given for a a given string. <u>FindBitSet</u> find the first bit Set starting at the position given for a a given string.

FromBinary convert a binary string (0, 1) to a string

<u>FromBinary2</u> convert a binary string (custom letters) to a string

FromHexa convert a hexa string to an ascii string.

FromZ9 convert a Z9 string to an ascii string.

GetBitreturn if a given bit in a given string is Set or Reset.GetBitBreturn if a given bit in a given BYTE is Set or Reset.GetBitDreturn if a given bit in a given DOUBLE is Set or Reset.GetBitIreturn if a given bit in a given INTEGER is Set or Reset.GetBitLreturn if a given bit in a given LONG is Set or Reset.GetBitSreturn if a given bit in a given SINGLE is Set or Reset.

GetBitB2 return if a given bit (real bit position) in a given BYTE is Set or Reset.

GetBitl2 return if a given bit (real bit position) in a given INTEGER is Set or Reset.

GetBitL2 return if a given bit (real bit position) in a given LONG is Set or Reset.

GiveBitPalindrome return all chars on which bit 0 is bit 7, bit 1 is bit 6, bit 2 is bit 5, bit 3 is bit 4.

H2Iconvert a hexa string into an integer variable.H2Lconvert a hexa string into a long variable.I2Bconvert an integer value into a binary string.

<u>I2Bext</u> convert an integer value into a binary string (custom chars).

<u>IsBitPalindrome</u> check if a string is Bit palindrome.

L2B convert a long value into a binary string.

<u>L2Bext</u> convert a long value into a binary string (custom chars).

Reverse AllBits reverse all bits in a given string.

Reverse AllBitsByChar reverse all bits by each char in a given string.

SetAllBits set all bits of a given string to Set state or Reset state. set a given bit in a given string to Set state or Reset state. <u>SetBit</u> <u>SetBitB</u> set a given bit in a given BYTE to Set state or Reset state. **SetBitD** set a given bit in a given DOUBLE to Set state or Reset state. set a given bit in a given INTEGER to Set state or Reset state. **SetBitl** <u>SetBitL</u> set a given bit in a given LONG to Set state or Reset state. **SetBitS** set a given bit in a given SINGLE to Set state or Reset state. SetBitB2 set a given bit (real bit position) in a given BYTE to Set state or Reset state.

SetBitl2 set a given bit (real bit position) in a given INTEGER to Set state or Reset state.

SetBitL2 set a given bit (real bit position) in a given LONG to Set state or Reset state.

<u>SetBitToFalse</u>
<u>SetBitToTrue</u>

ToBinary

set a given bit in a given string to Reset state.

set a given bit in a given string to Set state.

convert a string to a binary representation with 0, 1

<u>ToBinary2</u> convert a string to a binary representation with two custom letters for 0, 1representation toggle AllBits toggle all bits in a given string. If a bit is in Set state, it comes in Reset state. If a bit is in

Reset state, it comes is Set state.

<u>ToggleBit</u> toggle a given bit in a given string. If a bit is in Set state, it comes in Reset state. If a bit is

in Reset state, it comes is Set state.

ToHexa convert a ascii string to hexa string.

ToZ9 convert a ascii string to Z9 string.

CVx

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose :

CVB, CVC, CVD, CVI, CVL and CVS return number in a certain precision given a string containing the IEEE representation of the number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG and SINGLE.

CVSMBF return a Single number given a string containing the Microsoft Binary Format representation of the number.

Declare Syntax:

Declare Function cCVB Lib "time2win.dll" (Value As String) As Integer Declare Function cCVC Lib "time2win.dll" (Value As String) As Currency Declare Function cCVD Lib "time2win.dll" (Value As String) As Double Declare Function cCVI Lib "time2win.dll" (Value As String) As Integer Declare Function cCVL Lib "time2win.dll" (Value As String) As Long Declare Function cCVS Lib "time2win.dll" (Value As String) As Single Declare Function cCVSMBF Lib "time2win.dll" (Value As String) As Single

Call Syntax:

test% = cCVB(Value\$)
test@ = cCVC(Value\$)
test# = cCVD(Value\$)
test% = cCVI(Value\$)
test& = cCVL(Value\$)
test! = cCVS(Value\$)
test! = cCVS(Value\$)

Where:

test? receives the value represented by the IEEE string held in Value\$

For CVSMBF: test! receives the value represented by the MBF string held in Value\$

Comments:

See also : $\underline{\mathsf{MKx}}$

MKx

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MKB, MKC, MKD, MKI, MKL, and MKS return a string containing the IEEE representation of a number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG, SINGLE.

MKN return a string containing the IEEE representation of a big double number. The big double is not a part of the standard variable type of VB.

MKSMBF return a string containing the Microsoft Binary Format representation of a number.

Declare Syntax:

Declare Function cMKB Lib "time2win.dll" (ByVal Value As Integer) As String Declare Function cMKC Lib "time2win.dll" (ByVal Value As Currency) As String Declare Function cMKD Lib "time2win.dll" (ByVal Value As Double) As String Declare Function cMKI Lib "time2win.dll" (ByVal Value As Integer) As String Declare Function cMKL Lib "time2win.dll" (ByVal Value As Long) As String Declare Function cMKS Lib "time2win.dll" (ByVal Value As Single) As String Declare Function cMKSMBF Lib "time2win.dll" (ByVal Value As Single) As String

Declare Function cMKN Lib "time2win.dll" (ByVal Value As String) As String

Call Syntax:

Nm\$ = cMKB(Value%)
Nm\$ = cMKC(Value@)
Nm\$ = cMKD(Value#)
Nm\$ = cMKI(Value%)
Nm\$ = cMKL(Value&)
Nm\$ = cMKS(Value!)
Nm\$ = cMKSMBF(Value!)
Nm\$ = cMKN(Value\$)

Where:

Nm\$ receives the IEEE representation of Value?.

For MKSMBF : Nm\$ receives the MBF representation of Value!.

Comments:

For cMKN:

Arithmetics operations on big double value must be use the function defined in cBig.x.

To convert a standard value to a big double value, you must pass the string representation of the value.

The string representation of the value must be founded by using STR\$ not FORMAT\$.

In fact, the FORMAT\$ convert the decimal separator into the separator defined in the Control Panel (Number format). The STR\$ doesn't change the decimal separator.

The length of the string representation of a big double is always 10 chars.

See also: CVx

FromHexa, ToHexa

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FromHexa convert a hexa string to an ascii string. ToHexa convert a ascii string to hexa string.

Declare Syntax:

Declare Function cFromHexa Lib "time2win.dll" (Text As String) As String Declare Function cToHexa Lib "time2win.dll" (Text As String) As String

Call Syntax:

test\$ = cFromHexa(Text) test\$ = cToHexa(Text)

Where:

Text the string to proceed

test\$ the result

Comments:

The returned string from ToHexa is always a multiple of 2 If the size of the string passed to FromHexa is not a multiple of 2, only n-1 chars are used

Examples:

test\$ = cToHexa("ABCDEFG") ' "41424344454647" test\$ = cFromHexa("47464544434241") ' "GFEDCBA"

B2I, B2L, H2I, H2L, I2B, I2Bext, L2B, L2Bext

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

```
B2I convert a binary string into an integer variable.
```

B2L convert a binary string into a long variable.

H2I convert a hexa string into an integer variable.

H2L convert a hexa string into a long variable.

I2B convert an integer value into a binary string.

I2Bext converts an integer value into a binary string (custom chars).

L2B convert a long value into a binary string.

L2Bext converts a long value into a binary string (custom chars).

Declare Syntax:

```
Declare Function cB2I Lib "time2win.dll" (ByVal Txt As String) As Integer
Declare Function cB2L Lib "time2win.dll" (ByVal Txt As String) As Long
Declare Function cH2I Lib "time2win.dll" (ByVal Txt As String) As Integer
Declare Function cH2L Lib "time2win.dll" (ByVal Txt As String) As Long
Declare Function cI2B Lib "time2win.dll" (ByVal Value As Integer) As String
Declare Function cI2Bext Lib "time2win.dll" (ByVal Value As Integer, Bin As String) As String
Declare Function cL2B Lib "time2win.dll" (ByVal Value As Long) As String
Declare Function cL2Bext Lib "time2win.dll" (ByVal Value As Long, Bin As String) As String
```

Call Syntax:

```
Test% = cB2I(txtBinary$)
Test& = cB2L(txtBinary$)
Test% = cH2I(txtHexa$)
Test& = cH2L(txtHexa$)
Test$ = cl2B(intValue)
Test$ = cl2B(intValue, Bin$)
Test$ = cL2B(lngValue)
Test$ = cL2B(intValue, Bin$)
```

Where:

txtBinary\$ is a binary string (only combinaison of 0, 1) txtHexa\$ is a hexa string (only combinaison of A-Z, a-z, 0-9) Bin\$ the two custom letters for 0, 1 representation

intValue is an integer value

IngValue is a long value

Comments:

For B2I, B2L, H2I, H2L:

If the function detects that that a char is not valid, the conversion is stopped and the returned value is truncated.

Examples:

```
      Debug.Print cB2I("1")
      ' -> 1

      Debug.Print cB2I("11")
      ' -> 3

      Debug.Print cB2I("11111111")
      ' -> 255

      Debug.Print cB2I("11111111111111")
      ' -> -1

      Debug.Print cB2I("01010101010101")
      ' -> 21845

      Debug.Print cB2I("1010101010101010")
      ' -> -21846
```

Debug.Print cB2L("1") ' -> 1 Debug.Print cB2L("11111111111111") ' -> 65535 Debug.Print cB2L("111111111111111111111111") ' -> -1 Debug.Print cB2L("010101010101010101010101010101") '-> 1431655765 Debug.Print cB2L("10101010101010101010101010101010") '-> -1431655766 ' -> 0 Debug.Print cH2I("0") ' -> 161 Debug.Print cH2I("A1") Debug.Print cH2I("A1B") ' -> 2587 Debug.Print cH2I("7FFF") ' -> 32767 Debug Print cH2I("A1B2") '->-24142 ' -> -1 Debug.Print cH2I("FFFF") Debug.Print cH2L("0") ' -> 0 '-> 161 Debug.Print cH2L("A1") Debug.Print cH2L("A1B") ' -> 2587 Debug.Print cH2L("A1B2")
Debug.Print cH2L("7FFFFFFF")
Debug.Print cH2L("B2A1A1B2") ' -> 41394 '-> 2147483647 '->-1298030158 Debug.Print cH2L("FFFFFFF") ' -> -1 Debug.Print cl2B(12345) '-> 11000000111001 '-> 1100111111000111 Debug.Print cl2B(-12345) Debug.Print cL2B(1234567890) '-> 1001001100101100000001011010010 '-> 101101100110100111111110100101110 Debug.Print cL2B(-1234567890) Debug.Print cl2Bext(12345, "X=") '-> XX=====XXX==X $' \rightarrow XX==XXXXXX===XXX$ Debug.Print cl2Bext(-12345, "X=") Debug.Print cL2Bext(1234567890, "X=") ' -> Debug.Print cL2Bext(-1234567890, "X=") ' ->

See also: Binary

SetAllBits, SetBit, SetBitToFalse, SetBitToTrue

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SetAllBits set all bits of a given string to Set state or Reset state.

SetBit set a given bit in a given string to Set state or Reset state.

SetBitToFalse set a given bit in a given string to Reset state.

SetBitToTrue set a given bit in a given string to Set state.

Declare Syntax:

Declare Sub cSetAllBits Lib "time2win.dll" (Txt As String, ByVal Value As Integer)

Declare Sub cSetBit Lib "time2win.dll" (Txt As String, ByVal Position As Integer, ByVal Value As Integer)

Declare Sub cSetBitToFalse Lib "time2win.dll" (Txt As String, ByVal Position As Integer)

Declare Sub cSetBitToTrue Lib "time2win.dll" (Txt As String, ByVal Position As Integer)

Call Syntax:

Call cSetAllBits(Txt\$, Value)
Call cSetBit(Txt\$, Position, Value)
Call cSetBitToFalse(Txt\$, Position)
Call cSetBitToTrue(Txt\$, Position)

Where:

Txt\$ the string to proceed
Position the bit position
Value TRUE to Set the bit

FALSE to Reset the bit

Comments:

The first bit in the string is the bit 0.

For cSetBitToFalse:

This routine is a short-cut routine from cSetBit(Txt, Position, FALSE)

For cSetBitToTrue:

This routine is a short-cut routine from cSetBit(Txt, Position, TRUE)

FindBitReset, FindBitSet

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FindBitReset find the first bit Reset starting at the position given for a a given string. FindBitSet find the first bit Set starting at the position given for a a given string.

Declare Syntax:

Declare Function cFindBitReset Lib "time2win.dll" (Txt As String, ByVal Position As Integer) As Integer Declare Function cFindBitSet Lib "time2win.dll" (Txt As String, ByVal Position As Integer) As Integer

Call Syntax:

test = cFindBitReset(Txt\$, Position)
test = cFindBitSet(Txt\$, Position)

Where:

Txt\$ the string to proceed
Position the starting position
TRUE if no bit founded
TRUE if a bit founded

Comments:

For cFindBitReset:

This function is useful to find or scan a string for the bit Reset. The first bit in the string to start the test is -1.

For cFindBitSet:

This function is useful to find or scan a string for the bit Set. The first bit in the string to start the test is -1.

 $\label{eq:continuous} \begin{tabular}{ll} Toggle Bit \\ \textbf{QuickInfo}: VB 3.0, VB 4.0 (16-Bit), $\underline{VB 4.0 (32-Bit)}$ | VB 5.0 | VBA 5.0 {Win95/WinNT}, $MSOffice 95$ \\ \end{tabular}$

Purpose:

ToggleAllBits toggle all bits in a given string. If a bit is in Set state, it comes in Reset state. If a bit is in Reset state, it comes is Set state.

ToggleBit toggle a given bit in a given string. If a bit is in Set state, it comes in Reset state. If a bit is in Reset state, it comes is Set state.

Declare Syntax:

Declare Sub cToggleAllBits Lib "time2win.dll" (Txt As String) Declare Sub cToggleBit Lib "time2win.dll" (Txt As String, ByVal Position As Integer)

Call Syntax:

Call cToggleAllBits(Txt\$) Call cToggleBit(Txt, Position)

Where:

Txt\$ the string to proceed Position the bit position

Comments:

The first bit in the string is the bit 0.

ReverseAllBits, ReverseAllBitsByChar

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ReverseAllBits reverse all bits in a given string.
ReverseAllBitsByChar reverse all bits by each char in a given string.

Declare Syntax:

Declare Sub cReverseAllBits Lib "time2win.dll" (Txt As String)
Declare Sub cReverseAllBitsByChar Lib "time2win.dll" (Txt As String)

Call Syntax:

Call cReverseAllBits(Txt\$)
Call cReverseAllBitsByChar(Txt\$)

Where:

Txt\$ the string to proceed

Comments:

IsBitPalindrome

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, MSOffice 95

Purpose:

IsBitPalindrome check if a string is Bit palindrome.

Declare Syntax:

Declare Function clsBitPalindrome Lib "time2win.dll" (Txt As String) As Integer

Call Syntax:

test = clsBitPalindrome(Txt\$)

Where:

the string to proceed Txt\$

TRUE if the string is Bit palindrome FALSE if the string is not Bit Palindrome test

Comments:

CreateBits

 $\textbf{QuickInfo:} \ VB\ 3.0,\ VB\ 4.0\ (16\text{-Bit}),\ \underline{VB\ 4.0\ (32\text{-Bit})\ |\ VB\ 5.0\ |\ VBA\ 5.0\ \{Win95/WinNT\}},\ MSOffice\ 95$

Purpose:

CreateBits create a string which containes how many bits specified by a number.

Declare Syntax:

Declare Function cCreateBits Lib "time2win.dll" (ByVal nBits As Integer) As String

Call Syntax :

test = cCreateBits(nBits)

Where:

nBits number of bits wished

test the result

Comments:

Examples:

nBits = 10

test = cCreateBits(nBits) 'test will be a size of 2 chars

GetBit

 $\textbf{QuickInfo:} \ VB\ 3.0,\ VB\ 4.0\ (16\text{-Bit}),\ \underline{VB\ 4.0\ (32\text{-Bit})\ |\ VB\ 5.0\ |\ VBA\ 5.0\ \{Win95/WinNT\}},\ MSOffice\ 95$

Purpose:

GetBit return if a given bit in a given string is Set or Reset.

Declare Syntax:

Declare Function cGetBit Lib "time2win.dll" (Txt As String, ByVal Position As Integer) As Integer

Call Syntax :

test = cGetBit(Txt, Position)

Where:

Txt the string to proceed
Position the bit position
TRUE if the bit is Set
FALSE if the bit is Reset

Comments:

The first bit in the string is the bit 0.

GiveBitPalindrome

 $\textbf{QuickInfo:} \ \ \text{VB 3.0, VB 4.0 (16-Bit), } \ \ \underline{\text{VB 4.0 (32-Bit)}} \ \ \underline{\text{VB 5.0 | VBA 5.0 \{Win95/WinNT\}}}, \ \ \text{MSOffice 95}$

Purpose:

GiveBitPalindrome return all chars on which bit 0 is bit 7, bit 1 is bit 6, bit 2 is bit 5, bit 3 is bit 4.

Declare Syntax:

Declare Function cGiveBitPalindrome Lib "time2win.dll" () As String

Call Syntax :

test = cGiveBitPalindrome

Where:

test the result

Comments:

Get, GetBlock, GetIn, GetInPart, GetInPartR, GetInR, TokenIn

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Get extracts a sub-string delimited by '|' in a given string.

GetBlock reads a block of n chars starting at a given block in a given string.

GetIn extracts a left sub-string delimited by a separator in a given string.

GetInPart extracts the first left sub-string or the rest after the first sub-string delimited by a separator in a given string. GetInPartR extracts the first right sub-string or the rest after the first sub-string delimited by a separator in a given string.

GetInR extracts a right sub-string delimited by a separator in a given string.

TokenIn extracts a sub-string delimited by a separator's list in a given string.

Declare Syntax:

Declare Function cGet Lib "time2win.dll" (Txt As String, ByVal Position As Long) As String

Declare Function cGetBlock Lib "time2win.dll" (Txt As String, ByVal Position As Long, ByVal Length As Integer) As String

Declare Function cGetIn Lib "time2win.dll" (Txt As String, Separator As String, ByVal Position As Long) As String Declare Function cGetInPart Lib "time2win.dll" (Txt As String, Separator As String, ByVal Position As Long) As String Declare Function cGetInPartR Lib "time2win.dll" (Txt As String, Separator As String, ByVal Position As Long) As

Declare Function cGetInR Lib "time2win.dll" (Txt As String, Separator As String, ByVal Position As Long) As String Declare Function cTokenIn Lib "time2win.dll" (Txt As String, Separator As String, ByVal Position As Long) As String

Call Syntax:

Strina

test\$ = cGet(Txt, Position)
test\$ = cGetBlock(Txt, Position, Length)
test\$ = cGetIn(Txt, Separator, Position)
test\$ = cGetInPart(Txt, Separator, Position)
test\$ = cGetInPartR(Txt, Separator, Position)
test\$ = cGetInR(Txt, Separator, Position)
test\$ = cTokenIn(Txt, SeparatorList, Position)

Where:

Txt the string to proceed.

Position the position of the sub-string or the block.

Length the length of each block.
Separator the delimitor for each sub-string.
SeparatorList the separator's list for each sub-string.

test\$ the result.

Comments:

- * If the size of the string is 0 or if the position is < 1 or greater than the maximum block is the string or if the length is 0. The returned string is an empty string.
- * The function cGet is a subset of the cGetIn function.
- * The function cGetBlock is similar to MID\$(Txt, 1+ ((n-1) * m), m)
- * The function cTokenIn is a superset of the cGetIn function, in the fact that you can pass a separator's list.
- * For the function cGetInPart, cGetInPartR, you must set Position to TRUE for first part (left or right) and to FALSE for second part (left or right).
- * The function cGetInPartR is very usefull when you must isolate a file extension or the full directory and the filename function.

Examples:

test\$ = cGet("A|BC|DEF|G", 1) -> "A" test\$ = cGet("A|BC|DEF|G", 3)-> "DEF" test\$ = cGetIn("A/BC/DEF/G", "/", 4) -> "G" test\$ = cGetIn("A/BC/DEF/G","D", 2) -> "EF/G" test\$ = cGetInR("A/BC/DEF/G", "/", 4) -> "A" test\$ = cGetInR("A/BC/DEF/G","D", 2) -> "A/BC/" test\$ = cGetInPart("A/BC/DEF/G", "/", True) -> "A" test\$ = cGetInPart("A/BC/DEF/G","/", False) -> "BC/DEF/G" $test\$ = cGetInPartR("c:\vberr.hnd\test.mak", ".", True) \\ test\$ = cGetInPartR("c:\vberr.hnd\test.mak", ".", False)$ -> "mak" -> "c:\vberr.hnd\test" test\$ = cGetBlock("A/BC/DEF/G",1,2) test\$ = cGetBlock("A/BC/DEF/G",4,2) -> "A/" -> "EF" $test\$ = cTokenIn("A/BC:DEF\G", "/:\", 4) \\ test\$ = cTokenIn("A/BC:DEF\G", "/:\", 3)$ -> "G" -> "DEF"

See also: String

String: Overview

AddDigit sum all numerics chars in a given string.

<u>Align</u> align a give string (left, center, right) into an another new string.

AndToken check if all items of a list of token separated by '|' is present in a specified string.

AndTokenIn check if all items of a list of token separated by a separator is present in a specified string.

<u>ArabicToRoman</u> convert an integer or a long integer into Roman representation.

BlockCharFromLeft read n chars from the left of a string.

BlockCharFromRight read n chars from the right of a string.

<u>ChangeChars</u> change all chars specifien by others chars in a string.

<u>ChangeCharsUntil</u> change all chars specifien by others chars in a string until a char is encountered.

<u>CheckChars</u> verify that all chars specifien are present in a string.

<u>CheckNumericity</u> check if a string is a numeric string.

 CnvASCIItoEBCDIC
 convert an ASCII string into EBCDIC equivalent.

 CnvEBCDICtoASCII
 convert an EBCDIC string into ASCII equivalent.

 Compact
 compact a string composed of numeric chars.

Compress remove all chr\$(0):ASCII NULL, chr\$(9):TAB, chr\$(32):SPACE from a string.

CompressTab pack all n space chars into a tab char.

<u>CplAlpha</u>

return the complementary string from a given string composed with ascii chars.

<u>CplDigit</u>

return the complementary string from a given string composed with numerics chars.

Count count the number of a specified char in a string.

CreateAndFill create a string with the specified size and fill it with some chars.

DeleteSubString deletes all occurances of one string, in another string.

ExpandTab unpack all tab chars into n space chars.

Extract extracts a sub-string with a key in a string.

ExtractIsolate extracts a left/right part of a string from a key and a field separator.

Fill fill a string with some chars.

FilterBlocks remove one or more sub-string separated by two delimitors in a given string.

<u>FilterChars</u> remove some chars specifien in a given string.

FilterFirstChar remove some chars beginning at first position of a given string.

FilterNotChar remove all chars except speficien chars in a given string.

Get extract a sub-string delimited by '|' in a given string.

<u>GetBlock</u> read a block of n chars starting at a given block in a given string.

<u>GetIn</u> extract a left sub-string delimited by a separator in a given string.

GetInPart extract the first left sub-string or the rest after the first sub-string delimited by a separator

in a given string.

GetInPartR extract the first right sub-string or the rest after the first sub-string delimited by a separator

in a given string.

<u>GetInR</u> extract a right sub-string delimited by a separator in a given string. <u>InsertBlocks</u> insert different block of char in a given string separated by '~'.

InsertBlocksExt insert different block of char in a given string separated by '~' (It can handle empty insert

string).

<u>InsertBlocksBy</u> insert different block of char in a given string separated by a given separator.

<u>InsertByMask</u> replace the specified char by a string in a given string.

<u>InsertChars</u> insert a string starting at a given position in a given string.

<u>InStr</u> finds the position of the first occurrence of one string within another (like VB Instr

function).

LFill pads a string to the left, to a know length.
Lrc calculate the LRC of a given string.

LSetIn inserts a string (to the left) into a sub-string delimited by a separator in a given string.

<u>MatchTable</u> compares a string with a set of strings delimited by a separator.

MixChars will mix all chars in a given string in a random position.

Morse convert a string to a morse string.

NumDigit sum and sums all numerics chars in a given string to have a maximum value of 9.

OneCharFromLeft
OneCharFromRight

read 1 char at a position starting from the left of a string.

read 1 char at a position starting from the right of a string.

OrToken check if one item of a list of token separated by 'l' is present in a specified string.

<u>OrTokenIn</u> check if one item of a list of token separated by a separator is present in a specified string.

<u>PatternExtMatch</u> search if a given pattern can be found is a given string.

<u>PatternExtMatchS</u> search if a given pattern can be found is a given string (case-sensitive or not).

PatternMatch search if a given pattern can be found is a given string.

PatternMatchS search if a given pattern can be found is a given string (case-sensitive or not).

<u>ProperName</u> convert the first letter of each word separated by a space in a string to upper case.

<u>ProperName2</u> convert the first letter of some words separated by a space or punctuation in upper letter

case.

RemoveBlockChar remove a block of chars at the specified position in a string.

RemoveOneChar remove one char at the specified position in a string.

ResizeString resize the size of a string to a new length.

ResizeStringAndFill resize the size of a string to a new length and fill it with chars if the new length is greater

than the current length.

Reverse all chars in a given string.

RFill pads a string to the right, to a know length.

RomanToArabic convert a Roman string into an integer or a long integer.

RSetIn inserts a string (to the right) into a sub-string delimited by a separator in a given string.

Scroll Scroll Scroll one char to the left of a specified string.

Scroll one char to the right of a specified string.

<u>StringReplace</u> searches for known strings, and replaces them with another string. <u>StringSAR</u> search and replace a string by an another in the specified string. <u>TokenIn</u> extract a sub-string delimited by a separator's list in a given string.

Uncompact uncompact a string composed of numeric chars.

WrapLine wraps a line in multiple lines with a maximum length by line.

BlockCharFromLeft, BlockCharFromRight, OneCharFromLeft, OneCharFromRight

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

BlockCharFromLeft read n chars from the left of a string.
BlockCharFromRight read n chars from the right of a string.
OneCharFromLeft read 1 char at a position starting from the left of a string.
OneCharFromRight read 1 char at a position starting from the right of a string.

Declare Syntax:

Declare Function cBlockCharFromLeft Lib "time2win.dll" (Txt As String, ByVal Position As Integer) As String Declare Function cBlockCharFromRight Lib "time2win.dll" (Txt As String, ByVal Position As Integer) As String Declare Function cOneCharFromLeft Lib "time2win.dll" (Txt As String, ByVal Position As Integer) As String Declare Function cOneCharFromRight Lib "time2win.dll" (Txt As String, ByVal Position As Integer) As String

Call Syntax:

test = cBlockCharFromLeft(Txt, Position) test = cBlockCharFromRight(Txt, Position) test = cOneCharFromLeft(txt, position) test = cOneCharFromRight(Txt, Position)

Where:

Txt the string to extract some chars Position the number of chars to read

Test the result

Comments:

For cBlockCharFromLeft:

This fonction is the same that Left\$(Txt, Position) but doesn't generate an Error if a problem occurs.

For cBlockCharFromRight:

This fonction is the same that Right\$(Txt, Position) but doesn't generate an Error if a problem occurs.

From cOneCharFromLeft:

This function is the same that MID\$(Txt, Position, 1)

From cOneCharFromRight:

This function is the same that MID\$(Txt, Len(Txt) - Position + 1, 1)

Examples:

For cBlockCharFromLeft:

```
Txt = "ABCDEF"
Position = 3
Test = cBlockCharFromLeft(Txt, Position)
```

For cBlockCharFromRight:

Txt = "ABCDEF" Position = 3

Test = cBlockCharFromRight(Txt, Position) 'Test = "DEF"

 $For \ cOne Char From Left:\\$

Txt = "ABCDEF" Position = 3

Test = cOneCharFromLeft(Txt, Position) 'Test = "C"

For cOneCharFromRight:

Txt = "ABCDEF" Position = 3

Test = cOneCharFromRight(Txt, Position) 'Test = "D"

See also: String

InsertBlocks, InsertBlocksExt, InsertBlocksBy, InsertByMask, InsertChars

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

InsertBlocks insert different block of char in a given string separated by '~'.

InsertBlocksExt insert different block of char in a given string separated by '~' (It can handle empty insert string).

InsertBlocksBy insert different block of char in a given string separated by a given separator.

InsertByMask replace the specified char by a string in a given string.

InsertChars insert a string starting at a given position in a given string.

Declare Syntax:

Declare Function clnsertBlocks Lib "time2win.dll" (Txt As String, Insert As String) As String

Declare Function cInsertBlocksExt Lib "time2win.dll" (Txt As String, Insert As String) As String

Declare Function cInsertBlocksBy Lib "time2win.dll" (Txt As String, Insert As String, Delimitor As String) As String

Declare Function clnsertByMask Lib "time2win.dll" (Txt As String, Mask As String, Insert As String) As String

Declare Function clnsertChars Lib "time2win.dll" (Txt As String, ByVal Position As Integer, Insert As String) As String

Call Syntax:

test\$ = cInsertBlocks(Txt, Insert)

test\$ = cInsertBlocksExt(Txt, Insert)

test\$ = cInsertBlocksBy(Txt, Insert, Delimitor)

test\$ = cInsertByMask(Txt, Mask, Insert)

test\$ = clnsertChars(Txt, Position, Insert)

Where:

Txt the string to proceed Insert the string to insert

Delimitor the delimitor to use for the insert string

Mask the mask to use for the insert string

Position the position to use for the insert string

Comments:

- * If the size of the string is 0 The returned string is an empty string.
- * The function clnsertBlocks is a subset of the clnsertBlocksBy function.
- * The function clnsertBlocksExt is a subset of the clnsertBlocksBy function and can handle an empty insert string...
- * The number of blocks for cInsertBlocks, cInsertBlocksBy functions in the string to proceed must be greater than one from the number of block in the insert string.
- * The function clnsertChars is similar to LEFT\$(Txt, n) + Insert + RIGHT\$(Txt, LEN(Txt) n)

Examples:

```
test$ = cInsertBlocks("A~BC~DEF", "x~yz") ' "AxBCyzDEF"

test$ = cInsertBlocksExt("A~BC~DEF", "") ' "ABCDEF"

test$ = cInsertBlocksBy("U/VW/XYZ", "a/bc", "/") ' "UaVWbcXYZ"

test$ = cInsertByMask("Nr ## Price $###.##", "#", "0705995") ' "Nr <u>07</u> Price $<u>059.95</u>"

test$ = cInsertChars("ABCDEFG", 3, "wxyz") ' "ABCwxyzDEFG"

test$ = cInsertChars("ABCDEFG", 90, "wxyz") ' "ABCDEFGwxyz"

test$ = cInsertChars("ABCDEFG", 0, "wxyz") ' "wxyzABCDEFG"
```

AndToken, AndTokenIn, OrToken, OrTokenIn

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

AndToken check if all items of a list of token separated by '|' is present in a specified string.

AndTokenIn check if all items of a list of token separated by a separator is present in a specified string.

OrToken check if one item of a list of token separated by '|' is present in a specified string.

OrTokenIn check if one item of a list of token separated by a separator is present in a specified string.

Declare Syntax:

Declare Function cAndToken Lib "time2win.dll" (ByVal Txt As String, ByVal Token As String) As Integer Declare Function cAndTokenIn Lib "time2win.dll" (ByVal Txt As String, ByVal Token As String, ByVal Separator As String) As Integer

Declare Function cOrToken Lib "time2win.dll" (ByVal Txt As String, ByVal Token As String) As Integer Declare Function cOrTokenIn Lib "time2win.dll" (ByVal Txt As String, ByVal Token As String, ByVal Separator As String) As Integer

Call Syntax:

Test% = cAndToken(Txt\$, Token\$)

Test% = cAndTokenIn(Txt\$, Token\$, Separator\$)

Test% = cOrToken(Txt\$, Token\$)

Test% = cOrTokenIn(Txt\$, Token\$, Separator\$)

Where:

Txt\$ is the specified string. Token\$ is the list of token.

Separator\$ is the specified separator (default is '|').
Test% TRUE if one of the list of token is present,

FALSE if not

Comments:

AndToken, AndTokenIn, OrToken, OrTokenIn works only with string without embedded chr\$(0). AndToken, AndTokenIn, OrToken, OrTokenIn are case-sensitive. Use UCase\$ or LCase\$ to perform no case-sensitivity.

Examples:

Dim Txt As String
Dim Token As String
Dim Separator As String

Dim Test As Integer

Txt = "THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG"

Token = "THE|DOG|QUICK"

Test = cOrToken(Txt, Token) 'True

Token = "theldoglquick"

Test = cOrToken(Txt, Token) 'False

Token = "the\dog\quick"

Separator = "\"

Test = cOrTokenIn(lcase\$(Txt), lcase\$(Token), Separator) 'True

Token = "THE|DOG|QUICK" Test = cAndToken(Txt, Token)

'True

Token = "the|dog|quick" Test = cAndToken(Txt, Token)

' False

Token = "the\dog\quick" Separator = "\" Test = cAndTokenIn(Icase\$(Txt), Icase\$(Token), Separator)

'True

FilterBlocks, FilterChars, FilterFirstChars, FilterNotChars

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FilterBlocks remove one or more sub-string separated by two delimitors in a given string.

FilterChars remove some chars specifien in a given string.

FilterFirstChar remove some chars beginning at first position of a given string.

FilterNotChar remove all chars except speficien chars in a given string.

Declare Syntax:

Declare Function cFilterBlocks Lib "time2win.dll" (Txt As String, Delimitor As String) As String Declare Function cFilterChars Lib "time2win.dll" (Txt As String, charSet As String) As String Declare Function cFilterFirstChars Lib "time2win.dll" (Txt As String, charSet As String) As String Declare Function cFilterNotChars Lib "time2win.dll" (Txt As String, charSet As String) As String

Call Syntax:

test = cFilterBlocks(Txt. Delimitor) test = cFilterChars(Txt, charSet) test = cFilterFirstChars(Txt, charSet) test = cFilterNotChars(Txt, charSet)

Where:

the string to proceed Delimitortwo chars for filter the string

charSet the chars for filter the string

test the result

Comments:

Examples:

Txt = "A/BC/DEF/GHIJ" Delimitor = "//" test = cFilterBlocks(Txt, Delimitor)

' test = "ADEF"

Txt = "A/BC/DEF/GHIJ"

charSet = "B/"

test = cFilterChars(Txt, charSet)

'test = "ACDEFGHIJ"

Txt = "A/BC/DEF/GHIJ"

charSet = A/"

test = cFilterFirstChars(Txt, charSet)

test = "BC/DEF/GHIJ"

Txt = "A/BC/DEF/GHIJ"

charSet = "B/"

test = cFilterNotChars(Txt, charSet)

' test = "/B//"

See also: String

Txt = "A/BC/DEF/GHIJ"

Delimitor = "BI"

test = cFilterBlocks(Txt, Delimitor)

' test = "A/J"

Txt = "A/BC/DEF/GHIJ"

charSet = "AF/"

test = cFilterChars(Txt, charSet)

' test = "BCDEGHIJ"

Txt = "A/BC/DEF/GHIJ"

charSet = "A/BC/"

test = cFilterFirstChars(Txt, charSet)

'test = "DEF/GHIJ"

Txt = "A/BC/DEF/GHIJ"

charSet = "AF/"

test = cFilterNotChars(Txt, charSet)

' test = "A//F/"

AddDigit, CplDigit, NumDigit, CplAlpha

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

AddDigit sum all numerics chars in a given string.

CplDigit return the complementary string from a given string composed with numerics chars. NumDigit sum and sums all numerics chars in a given string to have a maximum value of 9.

CplAlpha return the complementary string from a given string composed with ascii chars.

Declare Syntax:

Declare Function cAddDigit Lib "time2win.dll" (Txt as string) As Integer Declare Function cCplDigit Lib "time2win.dll" (Txt as string) As String Declare Function cNumDigit Lib "time2win.dll" (Txt as string) As Integer Declare Function cCplAlpha Lib "time2win.dll" (Txt As String) As String

Call Syntax:

test% = cAddDigit(Txt) test\$ = cCplDigit(Txt) test% = cNumDigit(Txt) test\$ = cCplAlpha(Txt)

Where:

Txt\$ the string to proceed

test% the result

test\$ the result for CplAlpha

Comments:

For AddDigit, CpIDigit, NumDigit if one or more chars are different from digit, the value for each one is 0

Examples:

```
test% = cAddDigit("1234567890987654321712345678909876543217") ' 194 test% = cNumDigit("1234567890987654321712345678909876543217") ' 5
```

test\$ = cCplDigit("1234567890987654321712345678909876543217") '8765432109012345678287654321090123456782"

test% = cAddDigit("8765432109012345678287654321090123456782") ' 166 test% = cNumDigit("8765432109012345678287654321090123456782") ' 4

test\$ = cCplAlpha("AAAAAAA") ' "?>=<;:9"

CnvASCIItoEBCDIC, CnvEBCDICtoASCII

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CnvASCIItoEBCDIC convert an ASCII string into EBCDIC equivalent. CnvEBCDICtoASCII convert an EBCDIC string into ASCII equivalent.

Declare Syntax:

Call Syntax:

Call cCnvASCIItoEBCDIC(Txt\$)
Call cCnvEBCDICtoASCII(Txt\$)

Where:

Txt\$ the string to convert

Comments:

Examples:

Dim Tmp As String

Tmp = "A/BC/DEF/GHIJ"

Call cCnvASCIItoEBCDIC(Tmp)

Debug.Print Tmp 'ÁaÂÃaÄÅÆaÇÈÉÑ

Call cCnvEBCDICtoASCII(Tmp)

Debug.Print Tmp 'A/BC/DEF/GHIJ

ArabicToRoman, RomanToArabic

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ArabicToRoman convert an integer or a long integer into Roman representation. RomanToArabic convert a Roman string into an integer or a long integer.

Declare Syntax:

Declare Function cArabicToRoman Lib "time2win.dll" (Var As Variant) As String Declare Function cRomanToArabic Lib "time2win.dll" (Txt As String) As Variant

Call Syntax:

testAR = cArabicToRoman(var) testRA = cRomanToArabic(txt)

Where:

var is the integer or long integer value testAR return the Roman representation of var

txt is a Roman string.

testRA return the Arabic representation of txt.

Comments:

For cArabicToRoman:

The string returned by this function is always in lowercase.

For cRomanToArabic:

The value returned by this function is an integer or a long integer.

Examples:

testRA = cRomanToArabic("MCMXCIV") ' testRA -> 1994 testRA = cRomanToArabic("MCMXCV") ' testRA -> 1995 testRA = cRomanToArabic("MCMXCIII") ' testRA -> 1993

Days and Months in different language: Overview GetAscTime GetTinyDay retrieve the current date and time in a 26 chars string from a language number. return the specified day into one letter.

GetSmallDay return the specified day into two letters. return the specified day into three letters. return the specified day into full day name. GetShortDay GetLongDay return the specified month into one letter. <u>GetTinyMonth</u> GetShortMonth return the specified month into three letters. GetLongMonth return the specified month into full month name.

Get.X.Day, Get.X.Month

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

GetTinyDay return the specified day into one letter.
GetSmallDay return the specified day into two letters.
GetShortDay return the specified day into three letters.
GetLongDay return the specified day into full day name.
GetTinyMonth return the specified month into one letter.
GetShortMonth return the specified month into three letters.
GetLongMonth return the specified month into full month name.

Declare Syntax:

Declare Function cGetTinyDay Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal nDay As Integer) As String Declare Function cGetSmallDay Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal nDay As Integer) As String Declare Function cGetShortDay Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal nDay As Integer) As String Declare Function cGetLongDay Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal nDay As Integer) As String Declare Function cGetTinyMonth Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal nMonth As Integer) As String Declare Function cGetShortMonth Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal nMonth As Integer) As String

Declare Function cGetLongMonth Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal nMonth As Integer) As String

Call Syntax:

```
test$ = GetTinyDay(nLanguage, nDay)
test$ = GetSmallDay(nLanguage, nDay)
test$ = GetShortDay(nLanguage, nDay)
test$ = GetLongDay(nLanguage, nDay)
test$ = GetTinyMonth(nLanguage, nMonth)
test$ = GetShortMonth(nLanguage, nMonth)
test$ = GetLongMonth(nLanguage, nMonth)
```

Where:

nLanguage is the language number nDay is the day number nMonth is the month number

Comments:

nLanguage must be a correct language number.

If the language number is not correct, the french language is always returned.

nDay is the day of the week between 1 and 7. You can use the VB WeekDay() fonction to retrieve it from a date.

nMonth is a month between 1 and 12. You can use the VB Month() fonction to retrieve it from a date.

Examples:

```
test$ = cGetShortDay(LNG_FRENCH, 1) ' "Dim"
test$ = cGetLongDay(LNG_FRENCH, 1) ' "Dimanche"
test$ = cGetShortDay(LNG_FRENCH, 7) ' "Sam"
test$ = cGetLongDay(LNG_FRENCH, 7) ' "Samedi"

test$ = cGetShortDay(LNG_DUTCH, 1) ' "Zon"
test$ = cGetShortDay(LNG_DUTCH, 1) ' "Zondag"
test$ = cGetShortDay(LNG_DUTCH, 7) ' "Zat"
test$ = cGetLongDay(LNG_DUTCH, 7) ' "Zaterdag"
```

```
test$ = cGetShortMonth(LNG_FRENCH, 3) '"Mar"
test$ = cGetLongMonth(LNG_FRENCH, 3) '"Mars"
test$ = cGetShortMonth(LNG_FRENCH, 12) '"Déc"
test$ = cGetLongMonth(LNG_FRENCH, 12) '"Decembre"

test$ = cGetShortMonth(LNG_DUTCH, 3) '"Maa"
test$ = cGetShortMonth(LNG_DUTCH, 3) '"Maart"
test$ = cGetShortMonth(LNG_DUTCH, 12) '"Dec"
test$ = cGetLongMonth(LNG_DUTCH, 12) '"December"
```

See also: Days and months in different language

Public Const LNG_FRENCH = 1
Public Const LNG_DUTCH = 2
Public Const LNG_GERMAN = 3
Public Const LNG_ENGLISH = 4
Public Const LNG_ITALIAN = 5
Public Const LNG_SPANISH = 6
Public Const LNG_CATALAN = 7
Public Const LNG_POLISH = 8

GetAscTime

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetAscTime retrieve the current date and time in a 26 chars string from a language number.

Declare Syntax:

Declare Function cGetAscTime Lib "time2win.dll" (ByVal nLanguage As Integer) As String

Call Syntax:

test\$ = cGetAscTime(nLanguage)

Where:

nLanguage is the language number

Comments:

nLanguage must be a correct <u>language number</u>. If the language number is not correct, the french language is always returned.

A 24-hour clock is used.
All fields have a constant width.

Examples:

```
test$ = cGetAscTime(LNG_FRENCH) -> "Mer Déc 14 22:31:51 1994" -> "Woe Dec 14 22:32:11 1994" test$ = cGetAscTime(LNG_ENGLISH) -> "Wed Dec 14 22:32:29 1994"
```

See also : <u>Days and months in different language</u>

StringCompress, StringExpand

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

StringCompress compress a string into a compressed format. StringExpand expand a compressed string into a normal format.

Declare Syntax:

Declare Function cStringCompress Lib "time2win.dll" (Txt As String) As String Declare Function cStringExpand Lib "time2win.dll" (Txt As String) As String

Call Syntax:

Test\$ = cStringCompress(Txt\$) Test\$ = cStringExpand(Txt\$)

Where:

Txt\$ is the original string.
Test\$ is the compressed string.

Comments:

The compression gives the better result on TEXT string.

Examples:

Dim Str1 As String Dim Str2 As String Dim Str3 As String

Str1 = "T2WIN-32 is a powerfull DLL for VB 4.0 (32-Bit) under Win95/WinNT"

Str2 = cStringCompress(Str1) Str3 = cStringExpand(Str2)

If (Str1 = Str3) Then Debug.Print "Success!" Else Debug.Print "Error!"

See also: Compression

GZIPStringCompress, GZIPStringExpand

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

GZIPStringCompress compress a string into a compressed format using GZIP compression method. GZIPStringExpand expand a compressed string into a normal format using GZIP compression method. GZIPStringCompress2 compress a string into a compressed format using GZIP compression method. GZIPStringExpand2 expand a compressed string into a normal format using GZIP compression method.

Declare Syntax:

Declare Function cGZIPStringCompress Lib "time2win.dll" (Txt As String) As String Declare Function cGZIPStringExpand Lib "time2win.dll" (Txt As String) As String Declare Function cGZIPStringCompress2 Lib "time2win.dll" (Txt As String) As String Declare Function cGZIPStringExpand2 Lib "time2win.dll" (Txt As String) As String

Call Syntax:

Test\$ = cGZIPStringCompress(Txt\$)
Test\$ = cGZIPStringExpand(Txt\$)
Test\$ = cGZIPStringCompress2(Txt\$)
Test\$ = cGZIPStringExpand2(Txt\$)

Where:

Txt\$ is the original string.
Test\$ is the compressed string.

Comments:

The compression gives the better result on TEXT string.

The difference between GZIPStringCompress and GZIPStringCompress2 is the fact that GZIPStringCompress2 contains in the first 4 chars, the length of the original string.

The difference between GZIPStringExpand and GZIPStringExpand2 is the fact that GZIPStringCompress2 contains in the first 4 chars, the length of the original string.

Examples:

Dim Str1 As String Dim Str2 As String Dim Str3 As String

Str1 = "T2WIN-32 is a powerfull DLL for VB 4.0 (32-Bit) under Win95/WinNT"

Str2 = cGZIPStringCompress(Str1) Str3 = cGZIPStringExpand(Str2)

If (Str1 = Str3) Then Debug.Print "Success!" Else Debug.Print "Error!"

See also: Compression

FileCompress, FileExpand

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileCompress compress a file into a compressed format. FileExpand expand a compressed file into a normal format.

Declare Syntax:

Declare Function cFileCompress Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String) As Long Declare Function cFileExpand Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String) As Long

Call Syntax:

```
Test& = cFileCompress(FileIn$, FileOut$)
Test& = cFileExpand(FileIn$, FileOut$)
```

Where:

FileIn\$ is the original/compressed file. is the compressed/original file. FileOut\$ <0, an error has occured. Test&

>=0, the length of the created file.

Comments:

The compression gives the better result on TEXT file.

The following constants are used to explain the error code:

```
Public Const CMPEXP FILEIN CANT BE NULL = -1
```

occurs when the FileIn is an empty string

Public Const CMPEXP_FILEOUT_CANT_BE_NULL = -2

occurs when the FileOut is an empty string

Public Const CMPEXP_FILEIN_AND_FILEOUT_CANT_BE_THE_SAME = -3

occurs when the FileIn and FileOut are the same

Public Const CMPEXP FILEIN CANT BE OPENED = -4

occurs when the FileIn can't be opened (not valid, not exist or disk error)

Public Const CMPEXP_FILEOUT_CANT_BE_CREATED = -5

occurs when the FileOut can't be created (not valid or disk error)

Public Const CMPEXP_COMPRESS_OR_EXPAND_ERROR = -6

occurs when compressiion or expansion can't be performed (disk error)

Public Const CMPEXP_CANT_GET_FILEOUT_SIZE = -7

'occurs when the length of FileOut can be read (disk error)

Examples:

Dim FileIn As String Dim FileOut As String Dim FileOut2 As String Dim LengthIn As Long Dim LengthOut As Long

FileIn = "c:\win95\system\msit3032.dll"

FileOut = "c:\tmp\test.cmp"

FileOut = "c:\tmp\test.uncmp"

LengthOut = cFileCompress(FileIn, FileOut) LengthIn = cFileExpand(FileOut, FileOut2)

See also: Compression

Is.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

These routines checks if the specified string is:

IsAlnum Alphanumeric ('A'-'Z', 'a'-'z', or '0'-'9')

IsAlphaLetter ('A'-'Z' or 'a'-'z')IsAsciiASCII character (0x00 - 0x7F)IsCsymLetter, underscore, or digitIsCsymfLetter or underscore

IsDigit Digit ('0'-'9')

IsISBN International Standard Book Numbers (ISBNs)

IsLower Lowercase letter ('a'-'z')

IsPalindrome the string and the reverse string are the same

IsPunct Punctuation character

IsSpace White-space character (0x09 - 0x0D or 0x20)

IsUpper Uppercase letter ('A'-'Z')

IsXdigit Hexadecimal digit ('A'-'F', 'a'-'f', or '0'-'9')

IsBalance
IsDate
IsHour
IsLeapYear

test if the specified balance is a valid balance
test if the specified date is a valid date
test if the specified hour is a valid hour
test if the specified year is a leap year

Declare Syntax:

Declare Function clsAlnum Lib "time2win.dll" (Txt As String) As Integer Declare Function clsAlpha Lib "time2win.dll" (Txt As String) As Integer Declare Function clsAscii Lib "time2win.dll" (Txt As String) As Integer Declare Function clsCsym Lib "time2win.dll" (Txt As String) As Integer Declare Function clsCsymf Lib "time2win.dll" (Txt As String) As Integer Declare Function clsDigit Lib "time2win.dll" (Txt As String) As Integer Declare Function clsISBN Lib "time2win.dll" (Txt As String) As Integer Declare Function clsLower Lib "time2win.dll" (Txt As String) As Integer Declare Function clsPalindrome Lib "time2win.dll" (Txt As String) As Integer Declare Function clsPunct Lib "time2win.dll" (Txt As String) As Integer Declare Function clsSpace Lib "time2win.dll" (Txt As String) As Integer Declare Function clsUpper Lib "time2win.dll" (Txt As String) As Integer Declare Function clsXDigit Lib "time2win.dll" (Txt As String) As Integer

Declare Function clsBalance Lib "time2win.dll" (ByVal nHour As Long, ByVal nMinute As Integer, ByVal nSecond As Integer) As Integer

Declare Function clsDate Lib "time2win.dll" (ByVal nYear As Integer, ByVal nMonth As Integer, ByVal nDay As Integer) As Integer

Declare Function clsHour Lib "time2win.dll" (ByVal nHour As Integer, ByVal nMinute As Integer, ByVal nSecond As Integer) As Integer

Declare Function clsLeapYear Lib "time2win.dll" (ByVal nYear As Integer) As Integer

Call Syntax:

test = clsAlnum(Txt)
test = clsAlpha(Txt)
test = clsAscii(Txt)
test = clsCsym(Txt)
test = clsCsymf(Txt)
test = clsCsymf(Txt)
test = clsDigit(Txt)
test = clsLower(Txt)

test = clsPalindrome(Txt)

```
test = clsPunct(Txt)
```

test = clsSpace(Txt)

test = clsUpper(Txt)

test = clsXdigit(Txt)

test = clsBalance(nHour, nMinute, nSecond)

test = clsDate(nYear, nMonth, nDay)

test = clsHour(nHour, nMinute, nSecond)

test = clsLeapYear(nYear)

Where:

Txt the string to proceed

nHour the hour to test (can be negative and/or greater than 1439 for clsBalance)

nMinute the minute to test

nSecondthe second to test nYear the year to test nMonth the month to test

nDay the dat to test test TRUE if test is OK FALSE if the test fails

Comments:

Examples:

Txt = "ABCDEFG"

test = clsAlnum(Txt) **TRUE** test = clsAlpha(Txt)**TRUE** test = clsAscii(Txt) **TRUE** test = clsCsym(Txt) **TRUE** test = clsCsymf(Txt)**TRUE** test = clsDigit(Txt) **FALSE** test = clsLower(Txt) **FALSE** test = clsPalindrome(Txt) **FALSE** test = clsPunct(Txt) **FALSE** test = clsSpace(Txt) **FALSE** test = clsUpper(Txt) TRUE test = clsXdigit(Txt) **FALSE**

test = clsBalance(-1200, 58, 34) TRUE

test = clsDate(1995, 2, 29) FALSE

test = clsHour(23, 60, 10) FALSE test = clsLeapYear(1996) TRUE

See also : $\underline{\mathsf{ls}}$

HMAPutType, HMArPutType, HMAsPutType

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

HMAPutType save a type'd variable from a huge array.

HMArPutType have the same functionnality but with a huge array with only one sheet and only one row.

HMAsPutType have the same functionnality but with a huge array with only one sheet.

Declare Syntax:

Declare Sub cHMAPutType Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, nType As Any)

Declare Sub cHMArPutType Lib "time2win.dll" (HMA As tagHMA, ByVal Col As Long, nType As Any)

Declare Sub cHMAsPutType Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Col As Long, nType As Any)

Call Syntax:

Call cHMAPutType(HMA, Row&, Col&, Sheet&, nType)

Where:

HMA is a type'd variable (tagHMA).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

nType is the type'd variable to save depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used.

If the Col is below 1, the Col 1 is used.

If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than HMA.nRows, the Row HMA.nRows is used.

If the Col is greater than HMA.nCols, the Col HMA.nCols is used.

If the Sheet is greater than HMA.nSheets, the Sheet HMA.nSheets is used.

Examples:

Dim ErrCode As Integer
Dim HMA As tagHMA

Dim TE As tagTASKENTRY

HMA.nType = Len(TE) ' positive value for a type'd variable
HMA.nIsTyped = True ' init the array with chr\$(0) because type'd

variable

HMA.nRows = 500 '500 rows

HMA.nCols = 500 '500 cols

HMA.nSheets = 2 '2 sheets

ErrCode = cHMACreate(HMA) 'create a new huge array

ErrCode = cTasks(TE, True)

Call cHMAPutType(HMA, 1, 1, 1, TE) save the type'd variable in Row 1, Col 1,

Sheet 1

ErrCode = cTasks(TE, False)

Call cHMAPutType(HMA, 1, HMA.nCols, 1, TE) 'save the type'd variable in Row 1, Col 500,

Sheet 1

ErrCode = cTasks(TE, False)

Call cHMAPutType(HMA, HMA.nRows, 1, 1, TE)

Sheet 1

ErrCode = cTasks(TE, False)

Call cHMAPutType(HMA, HMA.nRows, HMA.nCols, 1, TE)

'save the type'd variable in Row 500, Col 1,

'save the type'd variable in Row 500, Col 500, Sheet 1

See also : <u>Huge memory array</u>

Is: Overview

These routines checks if the specified string is:

<u>IsAlnum</u> Alphanumeric ('A'-'Z', 'a'-'z', or '0'-'9')

IsAlpha Letter ('A'-'Z' or 'a'-'z')

 IsAscii
 ASCII character (0x00 - 0x7F)

 IsCsym
 Letter, underscore, or digit

 IsCsymf
 Letter or underscore

<u>IsDigit</u> Digit ('0'-'9')

IsISBN International Standard Book Numbers (ISBNs)

<u>IsLower</u> Lowercase letter ('a'-'z')

IsPalindrome the string and the reverse string are the same

IsPunct Punctuation character

<u>IsSpace</u> White-space character (0x09 - 0x0D or 0x20)

<u>IsUpper</u> Uppercase letter ('A'-'Z')

IsXdigit Hexadecimal digit ('A'-'F', 'a'-'f', or '0'-'9')

<u>IsBalance</u> test if the specified balance is a valid balance

IsDatetest if the specified date is a valid dateIsHourtest if the specified hour is a valid hourIsLeapYeartest if the specified year is a leap year

These routines checks if the specified value is :

<u>IsPrime</u> prime

The routines checks if a specified file has or not the specified attribute.

IsFileArchive check if the specified file is an ARCHIVE file.

<u>IsFileEmpty</u> check if the specified file contains or not data (size > 0).

IsFileHidden check if the specified file is a HIDDEN file.

<u>IsFilenameValid</u> check if the specified file follows the DOS or WIN95 or WINNT syntax for a file.

IsFileNormal check if the specified file is a NORMAL file.

IsFileReadOnly check if the specified file is a READ-ONLY file.

IsFileSubDir check if the specified file is a SUB-DIRECTORY file.

IsFileSystem check if the specified file is a SYSTEM file.

IsFileVolld check if the specified file is a VOLUME-ID file.

IsFileFlag check if the specified file have the specified attributes.

IsFile.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

IsFileArchive check if the specified file is an ARCHIVE file.

IsFileEmpty check if the specified file contains or not data (size > 0).

IsFileHidden check if the specified file is a HIDDEN file.

IsFilename Valid check if the specified file follows the DOS or WINNT syntax for a file.

IsFileNormal check if the specified file is a NORMAL file.

IsFileReadOnly check if the specified file is a READ-ONLY file.

IsFileSubDir check if the specified file is a SUB-DIRECTORY file.

IsFileSystem check if the specified file is a SYSTEM file.

IsFileVolld check if the specified file is a VOLUME-ID file.

IsFileFlag check if the specified file have the specified attributes.

Declare Syntax:

Declare Function clsFileArchive Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFileEmpty Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFileHidden Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFilenameValid Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFileNormal Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFileReadOnly Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFileSubDir Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFileSystem Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFileVolld Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function clsFileFlag Lib "time2win.dll" (ByVal nFilename As String, ByVal nStatus As Integer) As Integer

Call Syntax:

test% = clsFileArchive(nFilename)
test% = clsFileEmpty(nFilename)
test% = clsFileHidden(nFilename)
test% = clsFilenameValid(nFilename)
test% = clsFileNormal(nFilename)
test% = clsFileReadOnly(nFilename)
test% = clsFileSubDir(nFilename)
test% = clsFileSystem(nFilename)
test% = clsFileVolld(nFilename)
test% = clsFileVolld(nFilename)

Where:

test

nFilename to check

nStatus the status to check (only for clsFileFlag)

combine file <u>attributes</u> with logical OR. TRUE if the specified flag is present

FALSE if the specified flag is not present

Comments:

IsFilenameValid checks only the validity of a file (normal file or network file) not the presence on a disk, the returned code can be :

IFV ERROR bad char in the filename

IFV_NAME_TOO_LONG the length of the file part is too long (> 8)
IFV_EXT_TOO_LONG the length of the extension part is too long (> 3)

IFV_TOO_MANY_BACKSLASH too many successing backslash (> 2)
IFV_BAD_DRIVE_LETTER bad drive letter before the colon ':'

IFV_BAD_COLON_POS bad colon ':' position (<>2)
IFV_EXT_WITHOUT_NAME extension without a name

If the filename is not a good filename or if the filename not exist or if an error occurs when accessing the filename, the return value is always FALSE.

See also : <u>ls</u>

Huge memory array: Overview

The functions/subs usen in the Huge Memory Arrays routines handle Huge Arrays. Huge Arrays is based on the same principle that <u>DISK ARRAY</u> and <u>MULTIPLE DISK ARRAY</u>.

An bigger advantage of Huge Arrays is the speed.

The maximum number of Huge Arrays is 8192.

This number is a theorical maximum and is depending of any application loaded in memory.

The following functions/subs are used to handle big sized arrays on disk:

<u>HMAClear</u> Clear a Huge Array (fill it with chr\$(0) or chr\$(32) (for string array)).

<u>HMAClearCol</u> Clear a single Col on on one Sheet or on all sheets in a Huge Array (see above).

HMAClearRow Clear a single Row on one Sheet or on all Sheets in a Huge Array (see above).

HMAClearSheet Clear a single Sheet in a Huge Array (fill it with chr\$(0) or chr\$(32) (for string array)).

HMACreateCreate a Huge Array.HMAFreeFree a Huge Array.

HMAGet Read an element from a Huge Array.
HMAGetType Read a type'd variable from a Huge Array.
HMAOnDisk Get/Put a Huge Array from/to a file on disk.

HMAPut Save an element to a Huge Array.

HMAPutType Save a type'd variable to a Huge Array.

HMArGet
HMArGetType
HMArPut
HMArPutType
HMArPutType
Read an element from a Huge Array with only one sheet and one row.
Read a type'd variable from a Huge Array with only one sheet and one row.
Save an element from a Huge Array with only one sheet and one row.
Save a type'd variable from a Huge Array with only one sheet and one row.

HMAsClearCol Clear a single Col in a Huge Array with only one sheet.

HMAsClearRow
HMAsGet
HMAsGetTypeClear a single Row in a Huge Array with only one sheet.HMAsGetType
HMAsPut
HMAsPutTypeRead an element from a Huge Array with only one sheet.HMAsPutTypeSave an element from a Huge Array with only one sheet.Save a type'd variable from a Huge Array with only one sheet.

Don't forget that any Huge Memory Arrays must be destroyed before quitting the application. If you not destroy all Huge Memory Arrays that you've created, the memory used will be only released when the DLL will be unloaded from memory.

HMAPut, HMArPut, HMAsPut

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HMAPut save an element to a huge array.

HMArPut have the same functionnality but with a huge array with only one sheet and only one row.

HMAsPut have the same functionnality but with a huge array with only one sheet.

Declare Syntax:

Declare Sub cHMAPut Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, Var As Variant)

Declare Sub cHMArPut Lib "time2win.dll" (HMA As tagHMA, ByVal Col As Long) As Variant

Declare Sub cHMAsPut Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Col As Long, Var As Variant)

Call Syntax:

Call cHMAPut(HMA, Row&, Col&, Sheet&, Var)

Where:

HMA is a type'd variable (tagHMA).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

Var is the variant value to save depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used.

If the Col is below 1, the Col 1 is used.

If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than HMA.nRows, the Row HMA.nRows is used.

If the Col is greater than HMA.nCols, the Col HMA.nCols is used.

If the Sheet is greater than HMA.nSheets, the Sheet HMA.nSheets is used.

Examples:

see **HMACreate**

See also: Huge memory array

UUCP: Overview

FileUUCP uuencode/uudecode a file (this is can be usefull for Internet).

HMAGetType, HMArGetType, HMAsGetType

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

HMAGetType read a type'd variable from a huge array.

HMArGetType have the same functionnality but with a huge array with only one sheet and only one row.

HMAsGetType have the same functionnality but with a huge array with only one sheet.

Declare Syntax:

Declare Sub cHMAGetType Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long, nType As Any)

Declare Sub cHMArGetType Lib "time2win.dll" (HMA As tagHMA, ByVal Col As Long, nType As Any)

Declare Sub cHMAsGetType Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Col As Long, nType As Any)

Call Syntax:

Call cHMAGetType(HMA, Row&, Col&, Sheet&, nType)

Where:

HMA is a type'd variable (tagHMA).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

nType is the readed type'd variable depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used.

If the Col is below 1, the Col 1 is used.

If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than HMA.nRows, the Row HMA.nRows is used.

If the Col is greater than HMA.nCols, the Col HMA.nCols is used.

If the Sheet is greater than HMA.nSheets, the Sheet HMA.nSheets is used.

Examples:

Dim ErrCode As Integer
Dim HMA As tagHMA

Dim TE(1 To 4) As tagTASKENTRY

HMA.nType = Len(TE(1)) ' positive value for a type'd variable

HMA.nIsTyped = True ' init the array with chr\$(0) because type'd

variable

HMA.nRows = 500 '500 rows

HMA.nCols = 500 '500 cols

HMA.nSheets = 2 '2 sheets

ErrCode = cHMACreate(HMA) 'use a created huge array

Call cHMAGetType(HMA, 1, 1, 1, TE(1)) ' read the type'd variable in Row 1, Col 1,

Sheet 1

Call cHMAGetType(HMA, 1, HMA.nCols, 1, TE(2)) ' read the type'd variable in Row 1, Col 500,

Sheet 1

Call cHMAGetType(HMA, HMA.nRows, 1, 1, TE(3)) ' read the type'd variable in Row 500, Col 1,

Sheet 1

Call cHMAGetType(HMA, HMA.nRows, HMA.nCols, 1, TE(4)) ' read the type'd variable in Row 500, Col 500, Sheet 1

See also : <u>Huge memory array</u>

HMAGet, HMArGet, HMAsGet

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HMAGet read an element from a huge array.

HMArGet have the same functionnality but with a huge array with only one sheet and only one row.

HMAsGet have the same functionnality but with a huge array with only one sheet.

Declare Syntax:

Declare Function cHMAGet Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Col As Long, ByVal Sheet As Long) As Variant

Declare Function cHMArGet Lib "time2win.dll" (HMA As tagHMA, ByVal Col As Long) As Variant Declare Function cHMAsGet Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Col As Long) As Variant

Call Syntax:

Var = cHMAGet(HMA, Row&, Col&, Sheet&)

Where:

HMA is a type'd variable (tagHMA).

Row& is the row.
Col& is the col.
Sheet& is the sheet.

Var is the readed variant value depending of the variable type used in the creation.

Comments:

If the Row is below 1, the Row 1 is used. If the Col is below 1, the Col 1 is used.

If the Sheet is below 1, the Sheet 1 is used.

If the Row is greater than HMA.nRows, the Row HMA.nRows is used.

If the Col is greater than HMA.nCols, the Col HMA.nCols is used.

If the Sheet is greater than HMA.nSheets, the Sheet HMA.nSheets is used.

Examples:

see **HMACreate**

See also: Huge memory array

HMAFree

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, <u>MSOffice 95</u>

Purpose:

HMAFree free the memory used by a huge array.

Declare Syntax:

Declare Function cHMAFree Lib "time2win.dll" (HMA As tagHMA) As Integer

Call Syntax:

ErrCode = cHMAFree(HMA)

Where:

HMA is a type'd variable (tagHMA). ErrCode% is the returned <u>error code</u>.

Comments:

Examples:

see HMACreate

See also: <u>Huge memory array</u>

HMACreate

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HMACreate create a new huge array.

Declare Syntax:

Declare Function cHMACreate Lib "time2win.dll" (HMA As tagHMA) As Integer

Call Syntax:

ErrCode% = cHMACreate(HMA)

Where:

HMA is a type'd variable (tagHMA). ErrCode% is the returned error code.

Comments:

In theory:

The maxixum number of Rows is 2147483647 The maxixum number of Cols is 2147483647 The maxixum number of Sheets is 2147483647

You are only limited by the size of the memory.

Bigger are nRows, nCols or nSheets, bigger is the time to initialize.

When you create a new huge array, the only parameters that you must initialize are :

HMA.nType = 50 'the type of the variable to use, see <u>Constants and</u>

<u>Types declaration</u>. (HMA_x)

HMA.nlsTyped = False

HMA.nRows = 50

HMA.nCols = 50

HMA.nSheets = 2

'Must be True for a type'd variable.

'the number of rows to use.

'the number of cols to use.

'the number of sheets to use.

YOU CAN'T CHANGE THESE PARAMETERS AFTER THE CREATION OF THE HUGE ARRAY. YOU CAN'T CHANGE THE OTHER VALUES IN THE TYPE'D VARIABLE.

When you create a new array, all elements are initialized with chr\$(0) except for string array which are initialized with chr\$(32) (spaces).

However, string array and type'd array use the same positive value to define in .nType, but the type'd array must be initialized with chr\$(0) not with chr\$(32) therefore for a type'd you must specify .nlsTyped on True to initialize it with chr\$(0).

If you use huge array of type'd variable, the type'd variable can be only a mix of fixed variable (variable string length can't be used).

Examples:

Dim ErrCode As Integer
Dim HMA As tagHMA
Dim Var(1 To 8) As Variant

HMA.nType = 50 ' positive value for a string HMA.nlsTyped = False ' init the array with spaces HMA.nRows = 50' 50 rows HMA.nCols = 50'50 cols HMA.nSheets = 2' 2 sheets ErrCode = cHMACreate(HMA) ' create a new huge array 'save the string in Row 1, Col 1, Sheet 1 Call cHMAPut(HMA, 1, 1, 1, "D:1, ABCDEFGHIJ") Call cHMAPut(HMA, 1, HMA.nCols, 1, "D:1, abcdefghij") save the string in Row 1, Col 50, Sheet 1 Call cHMAPut(HMA, HMA.nRows, 1, 1, "D:1, OPQRSTUVWXYZ") save the string in Row 50, Col 1, Sheet 1 Call cHMAPut(HMA, HMA.nRows, HMA.nCols, 1, "D:1, oprqstuvwxyz") ' save the string in Row 50, Col 50, Sheet 1 Call cHMAPut(HMA, 1, 1, 2, "D:2, 1234567890") save the string in Row 1, Col 1, Sheet 2 Call cHMAPut(HMA, 1, HMA.nCols, 2, "D:2, 0987654321") save the string in Row 1, Col 50, Sheet 2 Call cHMAPut(HMA, HMA.nRows, 1, 2, "D:2, 12345ABCDE") save the string in Row 50, Col 1, Sheet 2 Call cHMAPut(HMA, HMA.nRows, HMA.nCols, 2, "D:2, VWXYZ54321") ' save the string in Row 50, Col 50, Sheet 2 Var(1) = cHMAGet(HMA, 1, 1, 1)' read the string in Row 1, Col 1, Sheet 1 Var(2) = cHMAGet(HMA, 1, HMA.nCols, 1") ' read the string in Row 1, Col 50, Sheet 1 Var(3) = cHMAGet(HMA, HMA, nRows, 1, 1) ' read the string in Row 50. Col 1. Sheet 1 Var(4) = cHMAGet(HMA, HMA.nRows, HMA.nCols, 1) ' read the string in Row 50, Col 50, Sheet 1 Var(5) = cHMAGet(HMA, 1, 1, 2)' read the string in Row 1, Col 1, Sheet 2 Var(6) = cHMAGet(HMA, 1, HMA.nCols, 2) ' read the string in Row 1, Col 50, Sheet 2 Var(7) = cHMAGet(HMA, HMA.nRows, 1, 2) ' read the string in Row 50, Col 1, Sheet 2 Var(8) = cHMAGet(HMA, HMA.nRows, HMA.nCols, 2) ' read the string in Row 50, Col 50, Sheet 2 ErrCode = cHMAFree(HMA) ' free the memory used. On my system: ErrCode = -1 ' no error ' internal header size HMA.daSize = 64 HMA.nType = 50' fixed string of 50 chars HMA.nRows = 50' 50 rows ' 50 cols HMA.nCols = 50' 2 sheets HMA.nSheets = 2' internal handle HMA.rHandle = 0 HMA.rElementSize = 50 ' internal size of a element HMA.rFileSize = 250000 ' internal size of the memory used ' internal number of parts (block of 64000 HMA.rParts = 3chars) HMA.rRemain = 58000 ' internal remain chars HMA.rSheetSize = 2500 ' internal size of one sheet Var(1) = "D:1, ABCDEFGHIJ" Var(2) = "D:1, abcdefghij" Var(3) = "D:1, OPQRSTUVWXYZ" Var(4) = "D:1, oprqstuvwxyz" Var(5) = "D:2, 1234567890" Var(6) = "D:2, 0987654321" Var(7) = "D:2, 12345ABCDE" Var(8) = "D:2, VWXYZ54321"

See also: Huge memory array

HMAClear, HMAClearSheet, HMAClearCol, HMAsClearCol, HMAClearRow, HMAsClearRow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HMAClear clear a huge array (fill it with chr\$(0) or chr\$(32) (for string array)).

HMAClearSheet clear a single Sheet in a huge array (fill it with chr\$(0) or chr\$(32) (for string array)).

HMAClearCol clear a single Col on one Sheet or on all Sheets in a huge array (fill it with chr\$(0) or chr\$(32) (for string array)).

HMAsClearCol have the same functionnality but with a huge array with only one sheet.

HMAClearRow clears a single Row on one Sheet or on all Sheets in a huge array (fill it with chr\$(0) or chr\$(32) (for string array)).

HMAsClearRow have the same functionnality but with a huge array with only one sheet.

Declare Syntax:

Declare Function cHMAClear Lib "time2win.dll" (HMA As tagHMA) As Integer

Declare Function cHMAClearSheet Lib "time2win.dll" (HMAAs tagHMA, ByVal Sheet As Long) As Integer

Declare Function cHMAClearCol Lib "time2win.dll" (HMA As tagHMA, ByVal Col As Long, ByVal Sheet As Long) As Integer

Declare Function cHMAsClearCol Lib "time2win.dll" (HMA As tagHMA, ByVal Col As Long) As Integer

Declare Function cHMAClearRow Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long, ByVal Sheet As Long) As Integer

Declare Function cHMAsClearRow Lib "time2win.dll" (HMA As tagHMA, ByVal Row As Long) As Integer

Call Syntax:

ErrCode% = cHMAClear(HMA)

ErrCode% = cHMAClearSheet(HMA, Sheet&)

ErrCode% = cHMAClearCol(HMA, Col&, Sheet&)

ErrCode% = cHMAsClearCol(HMA, Col&)

ErrCode% = cHMAClearRow(HMA, Row&, Sheet&)

ErrCode% = cHMAsClearRow(HMA, Row&)

Where:

HMA is a type'd variable (tagHMA).

Col& is the desired Col.

Row& is the desired Row.

Sheet& is the desired Sheet.

ErrCode% is the returned error code.

Comments:

This function must be used only after you've created a huge array.

If you've created a huge array, the array is already cleared.

For cHMAClearSheet:

If the huge array have a single Sheet, this routine have the same effect that cHMAClear.

If the Sheet is -1 then all Sheets are used. This parameter have the same functionnality that cHMAClear

If the Sheet is below 1 and different of -1, the Sheet 1 is used.

If the Sheet is greater than HMA.nSheets, the Sheet HMA.nSheets is used.

For cHMAClearCol, cHMAsClearCol: If the Col is below 1, the Col 1 is used. If the Col is greater than HMA.nCols, the Col HMA.nCols is used. If the Sheet is -1 then all Sheets are used. If the Sheet is below 1 and different of -1, the Sheet 1 is used. If the Sheet is greater than HMA.nSheets, the Sheet HMA.nSheets is used. For cHMAClearRow, cHMAsClearRow: If the Row is below 1, the Row 1 is used. If the Row is greater than HMA.nRows, the Row HMA.nRows is used. If the Sheet is -1 then all Sheets are used. If the Sheet is below 1 and different of -1, the Sheet 1 is used. If the Sheet is greater than HMA.nSheets, the Sheet HMA.nSheets is used. Examples: Dim ErrCode As Integer Dim HMA As tagHMA HMA.nType = 50' positive value for a string HMA.nlsTyped = False ' init the array with spaces HMA.nRows = 500' 500 rows ' 500 cols HMA.nCols = 500 HMA.nSheets = 2' 2 sheets ErrCode = cHMACreate(HMA) ' create a new huge array Call cHMAPut(HMA, 1, 1, 1, "D:1, ABCDEFGHIJ") ' save the string in Row 1, Col 1, Sheet 1 Call cHMAPut(HMA, 1, HMA.nCols, 1, "D:1, abcdefghij") ' save the string in Row 1, Col 500, Sheet 1 Call cHMAPut(HMA, HMA.nRows, 1, 1, "D:1, OPQRSTUVWXYZ") ' save the string in Row 500, Col 1, Sheet 1 Call cHMAPut(HMA, HMA.nRows, HMA.nCols, 1, "D:1, oprqstuvwxyz") 'save the string in Row 500, Col 500, Sheet '..... some codes ErrCode = cHMAClear(HMA) ' clear all elements in the huge array ErrCode = cHMAClearSheet(HMA, 2) 'clear the Sheet 2 in the huge array ErrCode = cHMAClearCol(HMA, HMA.nCols, 2) ' clear the last Col in Sheet 2 in the huge ErrCode = cHMAsClearCol(HMA, HMA.nCols) ' clear the last Col in Sheet 1 in the huge array ' clear the last Row in Sheet 2 in the huge ErrCode = cHMAClearRow(HMA, HMA.nRows, 2)

' clear the last Row in Sheet 1 in the huge

See also: Huge memory array

array

ErrCode = cHMAsClearRow(HMA, HMA.nRows)

HMAOnDisk

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HMAOnDisk read/write a Huge Array from/to a file.

Declare Syntax:

Declare Function cHMAOnDisk Lib "time2win.dll" (HMA As tagHMA, ByVal hsFile As String, ByVal hsGetPut As Integer) As Long

Call Syntax:

hsFileLength& = cHMAOnDisk(HMA, hsFile\$, hsGetPut%)

Where:

HMA is a type'd variable (tagHMA).

hsFile\$ is the name of the file to read/write the Huge Array.
hsGetPut% PUT_ARRAY_ON_DISK to put the array on disk,
GET_ARRAY_ON_DISK to get the array from disk.

hsFileLength& >=0 is the returned length of the file,

< 0 is an error occurs.

Comments:

The file length is the size of the Huge Array.

Examples:

Dim HMA As tagHMA
Dim ErrCode As Integer

HMA.nType = 50 'positive value for a string
HMA.nIsTyped = False 'init the array with spaces
HMA.nRows = 50 '50 rows
HMA.nCols = 50 '50 cols
HMA.nSheets = 2 '2 sheets

ErrCode = cHMACreate(HMA)

```
If (ErrCode <> 0) Then
```

MsgBox "Huge Array of " & HMA.rMemorySize & " bytes has been created with handle (" & HMA.rHandle & ")" Fise

MsgBox "Huge Array of " & HMA.rMemorySize & " bytes can't be created." End If

```
Call cHMAPut(HMA, 1, 1, 1, "D:1, ABCDEFGHIJ")

Call cHMAPut(HMA, 1, HMA.nCols, 1, "D:1, abcdefghij")

Call cHMAPut(HMA, HMA.nRows, 1, 1, "D:1, OPQRSTUVWXYZ")

Call cHMAPut(HMA, HMA.nRows, HMA.nCols, 1, "D:1, oprgstuvwxyz")

' save the string in Row 1, Col 1, Sheet 1

' save the string in Row 50, Col 1, Sheet 1

' save the string in Row 50, Col 50, Sheet 1
```

MsgBox "The length of the saved file is " & cHMAOnDisk(HMA, "c:\hugestr.tmp", PUT ARRAY ON DISK)

ErrCode = cHMAClear(HMA)

MsgBox "The length of the readed file is " & cHMAOnDisk(HMA, "c:\hugestr.tmp", GET ARRAY ON DISK)

ErrCode = cHMAFree(HMA)

```
If (ErrCode = TRUE) Then
   MsgBox "Huge Array (" & hsHandle & ") has been destroyed."
Else
   MsgBox "Huge Array (" & hsHandle & ") can't be destroyed."
End If
```

See also: <u>Huge memory array</u>

```
' structure for huge memory array
Type tagHMA
  daSize
                As Integer
                                 'size of the type'd
  nTypeAs Integer
                         'variable type
  nRows
                As Long
                                 'number of rows
  nCols As Long
                        'number of cols
  nSheets
                                 'number of sheets
                As Long
  rHandle
                As Long
                                'returned handle for use with other functions
  rElementSize As Long
                                 'returned size of a element
  rMemorySize As Long
                                'returned size of the memory used
  rPartsAs Long
                        'returned total part
                                'returned size of the remain part
  rRemain
                As Long
  rSheetSize
                                 'size of a sheet
                As Long
  rOffset
                                 'returned offset
                As Long
  nlsTyped
                As Integer
                                 'is nType a type'd variable
  Dummy
                As String * 20
                                'reserved for future use
End Type
' definition for variable type in huge memory array
Public Const HMA TYPE = 0
Public Const HMA BYTE = -1
Public Const HMA_INTEGER = -2
Public Const HMA_LONG = -3
Public Const HMA_SINGLE = -4
Public Const HMA DOUBLE = -5
Public Const HMA CURRENCY = -6
' definition for error type in huge memory array
Public Const HMA NO ERROR = True
Public Const HMA NO MEMORY = 1
Public Const HMA_BAD_TYPE = 2
Public Const HMA BAD ROWS = 3
Public Const HMA BAD COLS = 4
```

Public Const HMA_BAD_SHEETS = 5 Public Const HMA_INVALID_HANDLE = 6

Encryption: Overview

Decrypt

DESdecrypt

DIAMONDdecrypt

modes).

DESdecryptFile

DIAMONDdecryptFile DESencrypt

<u>DIAMONDencrypt</u>

modes).

<u>DESencryptFile</u>

<u>DIAMONDencryptFile</u>

Encrypt

FileEncrypt

FileDecrypt

IDEAdecrypt IDEAdecryptFile

IDEAencrypt

IDEAencryptFile

RUBYdecrypt

RUBYdecryptFile

RUBYencrypt RUBYencryptFile decode a string encoded with Encrypt function.

decode a string with a password using the U.S. Data Encryption Standard cipher.

decode a string with a password using the Diamond Encryption Algorithm (4

copy one file to an another file but with U.S. Data Encryption Standard cipher. copy one file to an another file but with Diamond Encryption Algorithm (4 modes). encode a string with a password using the U.S. Data Encryption Standard cipher.

encode a string with a password using the Diamond Encryption Algorithm (4

copy one file to an another file but with U.S. Data Encryption Standard cipher. copy one file to an another file but with Diamond Encryption Algorithm (4 modes).

encode a string with a password/key.

copy one file to an another file but with encryption.

copy one file to an another file but with decryption.

decode a string with a password using the International Data Encryption Algorithm cipher. copy one file to an another file but with the International Data Encryption Algorithm cipher. encode a string with a password using the International Data Encryption Algorithm cipher. copy one file to an another file but with the International Data Encryption Algorithm cipher.

decode a string with a password using the RUBY algorithm (7 modes).

copy one file to an another file but with RUBY algorithm (7 modes). encode a string with a password using the RUBY algorithm (7 modes).

copy one file to an another file but with RUBY algorithm (7 modes).

Encrypt, Decrypt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Encrypt encode a string with a password/key.

Decrypt decode a string encoded with Encrypt function.

Declare Syntax:

Declare Function cEncrypt Lib "time2win.dll" (Txt As String, password As String, ByVal level As Integer) As String Declare Function cDecrypt Lib "time2win.dll" (Txt As String, password As String, ByVal level As Integer) As String

Call Syntax:

testE = cEncrypt(Txt, password, level)
testD = cDecrypt(Txt, password, level)

Where:

Txt is the string to encrypt/decrypt

password is the key to use for encryption/decryption

level level of the encryption/decryption test is the string encrypted/decrypted

Comments:

The password/key is case sensitive.
The <u>level</u> is a number between **0** and **4**.
Higher is the level, better is the encryption
You must use the same level for encrypt/decrypt a given string.

Examples:

Txt = "Under the blue sky, the sun is yellow" password = "a new encryption"

level = ENCRYPT_LEVEL_4
test = cEncrypt(Txt, password, level)
Txt = cDecrypt(test, password, level)

See also : Encryption

FileEncrypt, FileDecrypt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

FileEncrypt copy one file to an another file but with encryption. FileDecrypt copy one file to an another file but with decryption.

Declare Syntax:

Declare Function cFileEncrypt Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String, Password As String, ByVal Level As Integer) As Long

Declare Function cFileDecrypt Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String, Password As String, ByVal Level As Integer) As Long

Call Syntax:

```
test& = cFileEncrypt(file1, file2, password, level)
test& = cFileDecrypt(file1, file2, password, level)
```

Where:

file1\$ is the source file. file2\$ is the destination file.

password is the key to use for encryption/decryption.

level of the encryption/decryption.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The password/key is case sensitive.

The level is a number between 0 and 4.

Higher is the level, better is the encryption.

You must use the same level for encrypt/decrypt a given string.

The returned value can be negative and have the following value:

- -1 the password is an EMPTY string.
- -32720 the number of chars in a block for writing differs from the number of chars for reading.
- -32730 reading error for file 1.
- -32740 writing error for file 2.
- -32750 opening error for file 1.
- -32751 opening error for file 2.
- -32760 allocation error for memory buffer 1.
- -32761 allocation error for memory buffer 2.

Examples:

```
test\& = cFileEncrypt("c:\autoexec.bat", "c:\autoexec.tb1", "Time To Win", ENCRYPT\_LEVEL\_4) \\ test\& = cFileDecrypt("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", ENCRYPT\_LEVEL\_4) \\ \\
```

See also: Encryption

' definition for encrypt/decrypt
Public Const ENCRYPT_LEVEL_0 = 0
Public Const ENCRYPT_LEVEL_1 = 1
Public Const ENCRYPT_LEVEL_2 = 2
Public Const ENCRYPT_LEVEL_3 = 3
Public Const ENCRYPT_LEVEL_4 = 4

Crc32 : Overview

FileCRC32 calculate a 32 bits CRC for a given file. StringCRC32 stringCRC32 calculate a 32 bits CRC for a given string.

Crypt, FileCrypt

Quickinfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Crypt encrypt/decryt a string with a password. FileCrypt encrypt/decrypt a file with a password.

Declare Syntax:

Declare Function cCrypt Lib "time2win.dll" (Txt As String, ByVal Password As String) As String Declare Function cFileCrypt Lib "time2win.dll" (ByVal File1 As String, ByVal File2 As String, ByVal Password As String) As Long

Call Syntax:

strResult\$ = cCrypt(Txt\$, Password\$)
IngResult& = cFileCrypt(File1\$, File2\$, Password\$)

Where:

Txt\$ is the string to be encrypted/decrypted
Password\$ is the string to encrypt/decrypt
File1\$ is the file to be encrypted/decrypted
File2\$ is the file encrypted/decrypted
strResult\$ is the string encrypted/decrypted
lngResult& < 0 : an error has occured
> 0 : length of the file encrypted

As Long

Comments:

Examples:

For cCrypt:

Dim IngResult

```
Dim strResult
                        As String
Dim strDisplay As String
                        As String
Dim Str1
Dim Str2
                        As String
Dim Str3
                        As String
strResult = ""
strDisplay = ""
Str1 = "T2WIN-32, t2win-32, T2WIN-32, t2win-32, T2WIN-32, t2win-32"
Str2 = cCrypt(Str1, "1234567")
Str3 = cCrypt(Str2, "1234567")
strDisplay = strDisplay & "Crypt " & Str1 & "" & vbCrLf & "with password '1234567" & vbCrLf & "is" & vbCrLf & ""
& Str2 & """ & vbCrLf & vbCrLf
strDisplay = strDisplay & "Crypt "" & Str2 & """ & vbCrLf & "with password '1234567" & vbCrLf & "is" & vbCrLf & """
& Str3 & """ & vbCrLf & vbCrLf
strDisplay = strDisplay & "Compare string contents (not sensitive) is " & IIf(LCase$(Str1) = LCase$(Str3), "same",
"not same") & vbCrLf & vbCrLf
Str1 = String$(30, "a") + String$(6, "b") + String$(5, "c") + String$(4, "d")
```

```
Str2 = cCrypt(Str1, "1234567")
  Str3 = cCrypt(Str2, "1234567")
  strDisplay = strDisplay & "Crypt "" & Str1 & """ & vbCrLf & "with password '1234567"" & vbCrLf & "is" & vbCrLf & """
  & Str2 & """ & vbCrLf & vbCrLf
  strDisplay = strDisplay & "Crypt "" & Str2 & """ & vbCrLf & "with password '1234567"" & vbCrLf & "is" & vbCrLf & """
  & Str3 & "" & vbCrLf & vbCrLf
  strDisplay = strDisplay & "Compare string contents (not sensitive) is " & IIf(LCase$(Str1) = LCase$(Str3), "same",
  "not same") & vbCrLf & vbCrLf
  Debug.Print strDisplay
For cFileCrypt:
   Dim IngResult
                           As Long
  Dim strResult
                           As String
  Dim strDisplay As String
  Dim Str1
                           As String
  Dim Str2
                          As String
  Dim Str3
                          As String
  strResult = ""
  strDisplay = ""
  File1 = T2WFileTest
  File2 = "autoexec.hi-encrypted"
```

strDisplay = strDisplay & "File Crypt" & File1 & " to " & File2 & " with password '1234567' is " & cFileCrypt(File1,

strDisplay = strDisplay & "File Crypt" & File2 & " to " & File3 & " with password '1234567' is " & cFileCrypt(File2,

strDisplay = strDisplay & "Compare File contents (not sensitive) " & File1 & " with " & File3 & " is " &

Ilf(cCmpFileContents(File1, File3, False) = -1, "same", "not same") & vbCrLf & vbCrLf

Debug.Print strDisplay

File3 = "autoexec.hi-decrypted"

File2, "1234567") & vbCrLf

File3, "1234567") & vbCrLf

See also: Hi-Crypt

FileCRC32

Purpose:

FileCRC32 calculate a 32 bits CRC for a given file.

Declare Syntax:

Declare Function cFileCRC32 Lib "time2win.dll" (ByVal lpFilename As String, ByVal mode As Integer) As Long

Call Syntax:

test = cFileCRC32(lpFilename, mode)

Where:

IpFilename the file to proceed

mode OPEN_MODE_BINARY (calculates the CRC on the full length of the file). This is the default mode.

OPEN_MODE_TEXT (calculates the CRC until a EOF is encountered)

test the calculated CRC 32 bits in a LONG.

Comments:

The returned value can be negative and have only a value :

-1 If the filename is not a good filename or if the filename not exist or if an error occurs when accessing the filename.

Examples:

test = cFileCRC32("C:\COMMAND.COM") '&h1131ADD3 (MS-DOS 6.22)

See also : $\underline{Crc32}$

StringCRC32

Purpose:

StringCRC32 calculate a 32 bits CRC for a given string.

Declare Syntax:

Declare Function cStringCRC32 Lib "time2win.dll" (Txt As String) As Long

Call Syntax:

test = cStringCRC32(Txt)

Where:

Txt the string to proceed

test the calculated CRC 32 bits in a LONG.

Comments:

if the string if empty, the return value is always -1 (&hFFFFFFF).

Examples:

 $\label{test} \begin{array}{ll} \text{test} = \text{cStringCRC32("ABCDEFG")} & \text{'} \& \text{hE6F94BC} \\ \text{test} = \text{cStringCRC32("GFEDCBA")} & \text{'} \& \text{hF0EC0AB3} \\ \end{array}$

See also: Crc32

' definition for crc32 Public Const OPEN_MODE_BINARY = 0 Public Const OPEN_MODE_TEXT = 1

' structure for file attributes Type FileAttributeType ErrNo As Integer Archive As Intege Archive As Integer
Hidden As Integer
Normal As Integer
ReadOnly As Integer
SubDir As Integer
System As Integer
Compressed As Integer
End Type

Hi-Crypt: Overview

Crypt encrypt/decryt a string with a password. encrypt/decrypt a file with a password.

Serialization: Overview

Serialization is a set of routines primarily intended for developers so that they may append a serial number (or other identifier) to the end of an .exe, .dll or any static files in size, put/modify or get serial numbers or any string to 50 characters. Users may use to initialize purchased software applications with ownership, security-related, or other identifying marks.

A unique serial number going out with each copy of an application affords the developer with a possible opportunity to identify, if need be, the

registered client of a particular copy. The end-user is normally unaware of the existence of such a mark, its location, its method of placement or

the method of reading/verifying. Its absence or modification may provide evidence of tampering.

The serialization of a file adds an overhead of 200 bytes (in 16-Bit) and 280 bytes (in 32-Bit) to the specified file.

<u>IsSerial</u> check if a file has been serialized.

<u>SerialGet</u> get the serialization information from a serialized file. <u>SerialInc</u>increment by a value the serialized number part of a serialized file.

<u>SerialPut</u> put a serialization information to a serialized file.

<u>SerialRmv</u> remove the serialization information from a serialized file.

IsSerial, SerialGet, SerialInc, SerialPut, SerialRmv

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

IsSerial check if a file has been serialized.

SerialGet get the serialization information from a serialized file.

Serialling increment by a value the serialized number part of a serialized file.

SerialPut put a serialization information to a serialized file.

SerialRmy remove the serialization information from a serialized file.

Declare Syntax:

Declare Function clsSerial Lib "time2win.dll" (ByVal File As String) As Integer

Declare Function cSerialGet Lib "time2win.dll" (ByVal file As String, SERIALDATA As tagSERIALDATA) As Integer

Declare Function cSerialInc Lib "time2win.dll" (ByVal file As String, ByVal Increment As Long) As Integer

Declare Function cSerialPut Lib "time2win.dll" (ByVal file As String, SERIALDATA As tagSERIALDATA) As Integer

Declare Function cSerialRmv Lib "time2win.dll" (ByVal File As String) As Integer

Call Syntax:

Test% = clsSerial(File\$)

Test% = cSerialGet(File\$, SERIALDATA)

Test% = cSerialInc(File\$, Increment&)

Test% = cSerialPut(File\$, SERIALDATA)

Test% = cSerialRmv(File\$)

Where:

File\$ is the specified file.

SERIALDATA is a type'd variable (tagSERIALDATA).

Increment& is the increment (positive or negative).

Test% TRUE if all is ok,

<> TRUE if an error has occured.

Comments:

For 16-Bit:

The length of the serialization string is maximum 50 characters (SERIALDATA.Description1, SERIALDATA.Description2).

You can add/remove the serialization on the same EXE file for application. In other words, the EXE file corresponding to an application can add/remove the serialization on itself.

For 32-Bit:

The length of the serialization string is maximum 52 characters (SERIALDATA.Description1, SERIALDATA.Description2).

Due to some limitations (or some protections) in Win95/WinNT, you can't add/remove the serialization on the same EXE file for application. In other words, the EXE file corresponding to an application can't add/remove the serialization on itself.

For SerialInc:

If you pass a 0 value, the serialization number is reset to 0 (be care).

Examples:

Dim putSERIALDATA As tagSERIALDATA As tagSERIALDATA Dim getSERIALDATA

putSERIALDATA.Description1 = "1234567890123456789012345"

putSERIALDATA.Description2 = ""

putSERIALDATA.Number = 987654321

Debug.Print cSerialPut("c:\tmp\sample.exe", putSERIALDATA)

Debug.Print cSerialGet("c:\tmp\sample.exe", getSERIALDATA)
Debug.Print getSERIALDATA.Description1 & Chr\$(13) & getSERIALDATA.Description2 & Chr\$(13) & getSERIALDATA.Number

putSERIALDATA.Description2 = "ABCDEFGHIJKLMNOPQRSTUVWYZ"

putSERIALDATA.Number = 123456789

Debug.Print cSerialPut("c:\tmp\sample.exe", putSERIALDATA)

Debug.Print cSerialGet("c:\tmp\sample.exe", getSERIALDATA)

Debug Print getSERIALDATA Description 1 & Chr\$(13) & getSERIALDATA Description 2 & Chr\$(13) & getSERIALDATA.Number

Debug.Print cSerialInc("c:\tmp\sample.exe", 123)
Debug.Print cSerialGet("c:\tmp\sample.exe", getSERIALDATA)
Debug.Print getSERIALDATA.Description1 & Chr\$(13) & getSERIALDATA.Description2 & Chr\$(13) & getSERIALDATA.Number

Debug.Print cSerialRmv("c:\tmp\sample.exe")

See also: Serialization

Compress

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Compress remove all chr\$(0):ASCII NULL, chr\$(9):TAB, chr\$(32):SPACE from a string.

Declare Syntax:

Declare Function cCompress Lib "time2win.dll" (Txt As String) As String

Call Syntax:

test = cCompress(Txt)

Where:

Txt the string to proceed

test the string returned without any chr\$(0), chr\$(9), chr\$(32)

Comments:

' structure for serialization Type tagSERIALDATA Description1 Description2 Number As String * 52 As String * 52 As Long As String * 52 ' serialization description 1 ' serialization description 2 ' serialization number Dummy End Type ' reserved for future use

' definition for error type in SERIAL DATA Public Const SD_SERIAL_NOT_FOUND = 1 Public Const SD_CAN_NOT_OPEN_FILE = 2

CompressTab, ExpandTab

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CompressTab pack all n space chars into a tab char. ExpandTab unpack all tab chars into n space chars.

Declare Syntax:

Declare Function cCompressTab Lib "time2win.dll" (Txt As String, ByVal nTab As Integer) As String Declare Function cExpandTab Lib "time2win.dll" (Txt As String, ByVal nTab As Integer) As String

Call Syntax:

```
test = cCompressTab(Txt, nTabC)
test = cExpandTab(Txt, nTabE)
```

Where:

Txt the string to proceed.

nTabC the number of space chars to replace by a tab char. nTabE the number of space chars which replace a tab char.

test the result.

Comments:

Examples:

ChangeChars, ChangeCharsUntil

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ChangeChars change all chars specifien by others chars in a string.

ChangeCharsUntil change all chars specifien by others chars in a string until a char is encountered.

Declare Syntax:

Declare Sub cChangeChars Lib "time2win.dll" (Txt As String, charSet As String, newCharSet As String)
Declare Sub cChangeCharsUntil Lib "time2win.dll" (Txt As String, charSet As String, newCharSet As String, nUntil As String)

Call Syntax:

Call cChangeChars(Txt, charSet, newCharSet)
Call cChangeCharsUntil(Txt, charSet, newCharSet, nUntil)

Where:

Txt the string to process.

charSet the chars in the string to be changed.

newCharSet the new chars.

nUntil the char to stop the change.

Comments:

Normally, the size of the newCharSet and charSet must be the same. If the size are not the same, the smallest size is used.

For cChangeCharsUntil:

If the size of nUntil is 0 then all chars of the string is proceeded. If the size of nUntil is >1 only the first char is used.

Examples:

For cChangeChars:

```
Txt = "ABCDEF"
charSet = "ACE"
newCharSet = "ace"
```

Call cChangeChars(Txt, charSet, newCharSet) 'Txt = "aBcDeF"

For cChangeCharsUntil:

```
Txt = "ABCDEF"
charSet = "ACE"
newCharSet = "ace"
nUntil = "D"
Call cChangeCharsUntil(Txt, charSet, newCharSet, nUntil) 'Txt = "aBcDEF"
```

CheckChars

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CheckChars verify that all chars specifien are present in a string.

Declare Syntax:

Declare Function cCheckChars Lib "time2win.dll" (Txt As String, charSet As String) As Integer

Call Syntax:

status = cCheckChars(Txt, charSet)

Where:

Txt the string to proceed. charSet the chars to be verified.

status TRUE if all chars specifien in charSet are present in Txt.

FALSE if all chars specifien in charSet are not present in Txt.

Comments:

Examples:

Txt = "ABCDEFG"
charSet = "CAD"
status = cCheckChars(Txt, charSet)' status = TRUE

Txt = "ABCDEFG"
charSet = "CADZ"
status = cCheckChars(Txt, charSet)' status = FALSE

RemoveBlockChar, RemoveOneChar

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RemoveBlockChar remove a block of chars at the specified position in a string. RemoveOneChar remove one char at the specified position in a string.

Declare Syntax:

Declare Function cRemoveBlockChar Lib "time2win.dll" (Txt As String, ByVal Position As Long, ByVal Length As Long) As String

Declare Function cRemoveOneChar Lib "time2win.dll" (Txt As String, ByVal Position As Long) As String

Call Syntax:

Test\$ = cRemoveBlockChar(Txt\$, Position&, Length&) Test\$ = cRemoveOneChar(Txt\$, Position&)

Where:

Txt\$ is the string to proceed.

Position& is the starting position to remove the char(s).

Length& is the number of chars to remove

Test\$ is the result

Comments:

Examples:

Txt\$ = "This is an another test"

Debug.Print cRemoveBlockChar(Txt\$, 10, 9) ' "This is a test"

Txt\$ = "This is an test"

Debug.Print cRemoveOneChar(Txt\$, 10) ' "This is test"

Reverse

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Reverse reverse all chars in a given string.

Declare Syntax:

Declare Function cReverse Lib "time2win.dll" (Txt As String) As String

Call Syntax :

Test\$ = cReverse(Txt\$)

Where:

Txt\$ is the specified string
Test\$ is the string reversed

Comments:

Examples:

Test\$ = cReverse("TIME TO WIN") ' "NIW OT EMIT"

ScrollL, ScrollR

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ScrollL scroll one char to the left of a specified string.
ScrollR scroll one char to the right of a specified string.

Declare Syntax:

Declare Function cScrollL Lib "time2win.dll" (Txt As String) As String Declare Function cScrollR Lib "time2win.dll" (Txt As String) As String

Call Syntax:

test\$ = cScrollL(Txt\$)
test\$ = cScrollR(Txt\$)

Where:

Txt\$ is the string to scroll.

test\$ is the string scrolled to the left or to the right.

Comments:

The size of the string must be greater than 1.

Examples:

Txt\$ = "TIME TO WIN "

test\$ = cScrollL(Txt\$) "IME TO WIN T" test\$ = cScrollR(Txt\$) " TIME TO WIN"

Count

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Count count the number of a specified char in a string.

Declare Syntax:

Declare Function cCount Lib "time2win.dll" (Txt As String, Separator As String) As Integer

Call Syntax:

test = cCount(Txt, Separator)

Where:

Txt the string to proceed Separator the char to be counted

test the total number of Separator in the string

Comments:

Examples:

Txt = "A/BC/DEF/G"
Separator = "/"

test = cCount(Txt, Separator) 'test = 3

See also : \underline{String}

ResizeString, ResizeStringAndFill

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

ResizeString resize the size of a string to a new length.

ResizeStringAndFill resize the size of a string to a new length and fill it with chars if the new length is greater than the current length.

Declare Syntax:

Declare Function cResizeString Lib "time2win.dll" (Txt As String, ByVal newLength As Integer) As String Declare Function cResizeStringAndFill Lib "time2win.dll" (Txt As String, ByVal newLength As Integer, Fill As String) As String

Call Syntax:

Test\$ = cResizeString(Txt\$, Length%)
Test\$ = cResizeStringAndFill(Txt\$, Length%, Fill\$)

Where:

Txt\$ is the specified string.

Length% is the new length (can be shorter than the current length). Fill\$ is a char or a string to use to fill the new string.

Test\$ is the new string.

Comments:

For cResizeString:

The new length can be greater than the current length. In this case, chr\$(0) is used to fill the rest of the string.

For cResizeStringAndFill:

The new length can be greater than the current length. In this case, the fill string is used to fill the rest of the string.

Examples:

```
Test$ = cResizeString("TIME TO WIN", 7) ' "TIME TO"
```

Test\$ = cResizeStringAndFill("TIME TO WIN", 21, "@") ' "TIME TO WIN@@@@@@@@@@"
Test\$ = cResizeStringAndFill("TIME TO WIN", 21, "time") ' "TIME TO WINtimetimeti"

SwapD, SwapI, SwapS, SwapStr

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

SwapD swap two Double values. SwapI swap two Integer values. SwapL swap two Long values. SwapS swap two Single values. SwapStr swap two strings.

Declare Syntax:

Declare Sub cSwapD Lib "time2win.dll" (swap1 As Double, swap2 As Double) Declare Sub cSwapI Lib "time2win.dll" (swap1 As Integer, swap2 As Integer) Declare Sub cSwapL Lib "time2win.dll" (swap1 As Long, swap2 As Long) Declare Sub cSwapS Lib "time2win.dll" (swap1 As Single, swap2 As Single) Declare Sub cSwapStr Lib "time2win.dll" (swap1 As String, swap2 As String)

Call Syntax:

Call cSwapD(swap1, swap2)
Call cSwapI(swap1, swap2)
Call cSwapL(swap1, swap2)
Call cSwapS(swap1, swap2)
Call cSwapStr(swap1, swap2)

Where:

swap1 first Double/Integer/Long/Single/String value. swap2 second Double/Integer/Long/Single/String value.

Comments:

Examples:

swap1 = 2345.12 swap2 = 5432.21

Call cSwapD(swap1, swap2) 'swap1 = 5432.21; swap2 = 2345.12

swap1 = "Hello" swap2 = "World"

Call cSwapStr(swap1, swap2) 'swap1 = "World"; swap2 = "Hello"

See Also: Miscellaneous

CreateAndFill

 $\textbf{QuickInfo:} \ VB\ 3.0,\ VB\ 4.0\ (16\text{-Bit}),\ \underline{VB\ 4.0\ (32\text{-Bit})\ |\ VB\ 5.0\ |\ VBA\ 5.0\ \{Win95/WinNT\}},\ MSOffice\ 95$

Purpose:

CreateAndFill create a string with the specified size and fill it with some chars.

Declare Syntax:

Declare Function cCreateAndFill Lib "time2win.dll" (ByVal Length As Integer, Txt As String) As String

Call Syntax:

test = cCreateAndFill(Length, Txt)

Where:

Length the length of the result string Txt the chars to fill in the result string

test the result

Comments:

Examples:

Length = 14 Txt = "aBc"

See also : $\underline{\text{String}}$

Fill

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Fill fill a string with some chars.

Declare Syntax:

Declare Sub cFill Lib "time2win.dll" (Txt As String, Fill As String)

Call Syntax:

Call cCreateAndFill(Txt, Fill)

Where:

Txt the string to proceed Fill the chars to fill in the string

Comments:

This routine is a superset of String\$. In fact, STRING\$ can only use a char to fill a string.

Examples:

Txt = space\$(14) Fill = "AbC"

Call cFill(Txt, Fill) 'test = "AbCAbCAbCAbCAb"

Lrc

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Lrc calculate the LRC of a given string.

Declare Syntax:

Declare Function cLrc Lib "time2win.dll" (Txt As String) As String

Call Syntax:

test\$ = cLrc(Txt)

Where:

Txt the string to proceed test\$ the LRC calculated

Comments:

The LRC is always an Hexa string of two chars.

This function is used for communication between a program and a clocking terminal

Examples:

test\$ = cLrc(chr\$(2) & "0a12721536") ' "54"

Compact, Uncompact

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Compact compact a string composed of numeric chars. Uncompact uncompact a string composed of numeric chars.

Declare Syntax:

Declare Function cCompact Lib "time2win.dll" (Txt As String) As String Declare Function cUncompact Lib "time2win.dll" (Txt As String) As String

Call Syntax:

test = cCompact(Txt)
test = cUncompact(Txt)

Where:

Txt is the string (only numeric chars) to compact/uncompact.

test return the string compacted/uncompacted.

Comments:

For Compact:

If the size of the string is not a multiple of 2, the size used is the nearest below multiple of 2.

For Uncompact:

The size of the returned string is always a multiple of 2.

Examples:

Txt = "39383736353433323130"

test = cCompact(Txt) 'test = "9876543210"

Txt = "0123456789"

MixChars

 $\textbf{QuickInfo:} \ \ \text{VB 3.0, VB 4.0 (16-Bit), } \ \ \underline{\text{VB 4.0 (32-Bit)}} \ \ | \ \ \text{VB 5.0 | VBA 5.0 \{Win95/WinNT\}, MSOffice 95}$

Purpose:

MixChars will mix all chars in a given string in a random position.

Declare Syntax:

Declare Function cMixChars Lib "time2win.dll" (Txt As String) As String

Call Syntax:

test\$ = cMixChars(Txt)

Where:

Txt is the string to mix all chars. test\$ is the returned mixed string.

Comments:

MixChars use a random number generator to perform the mix of the chars. The starting random number is depending of the actual date and time.

If the passed string is an EMPTY string, the returned string is an EMPTY string.

Examples:

test1\$ = cMixChars("TIME TO WIN") ' "ON EI WMTIT"

test2\$ = cMixChars("Nothing can beat the fox") ' "Nt honn ia ttechx baefog"

Align

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Align align a give string (left, center, right) into an another new string.

Declare Syntax:

Declare Function cAlign Lib "time2win.dll" (Txt As String, ByVal TypeAlign As Integer, ByVal NewLength As Integer) As String

Call Syntax:

Test\$ = cAlign(Txt\$, TypeAlign%, NewLength%)

Where:

Txt\$ is the specified string
TypeAlign% < 0 : left align,
= 0 : center align,

> 0 : right align.

NewLength% the length of the new string

Test\$ is the string aligned

Comments:

If NewLength is below that the length of the string, the left part of the string is returned. The new string is padded with spaces.

Examples:

ProperName

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, MSOffice 95

Purpose:

ProperName convert the first letter of each word separated by a space in a string to upper case.

Declare Syntax:

Declare Function cProperName Lib "time2win.dll" (Txt As String) As String

Call Syntax:

Test\$ = cProperName(Txt\$)

Where:

Txt\$ is the specified string.
Test\$ is the returned string.

Comments:

Examples:

macdonald becomes Macdonald mac donald becomes Mac Donald John fitz,jr becomes John Fitz,jr john Fitz, jr becomes John Fitz, Jr

ProperName2

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ProperName2 convert the first letter of some words separated by a space or punctuation in upper letter case.

Declare Syntax:

Declare Function cProperName2 Lib "time2win.dll" (Txt As String, ByVal TokenToUse As String, ByVal Options As Integer) As String

Call Syntax:

Test\$ = cProperName2(Txt\$, TokenToUse\$, Options%)

Where:

Txt\$ is the text to convert.

TokenToUse\$ is the token list that can't be converted.

Options% PN_UPPERCASE, works with upper case text.

PN PUNCTUATION, separator can be a space or a punctuation.

PN_KEEP_ORIGINAL, keep case letter in the token list.

PN ONLY LEADER SPACE, don't use the leader trailer space for search in the token

list.

Comments:

TokenToUse can be empty.

TokenToUse is a list of all words (separated by '/') which can't be converted (b.e.: "the/and/a/an/or/of")

Examples:

ProperName2 of 'JOHN FITZ,JR' is 'John Fitz,Jr'

ProperName2 of 'john Fitz,jr' is 'John Fitz,Jr'

ProperName2 of 'macdonald' is 'Macdonald'

ProperName2 of 'mac donald' is 'Mac Donald'

ProperName2 of 'a.l. greene jr.' is 'A.L. Greene Jr.'

ProperName2 of 'shale and sandstone and till' is 'Shale and Sandstone and Till'

ProperName2 of 'a sandstone or a shale' is 'a Sandstone or a Shale'

Decrl, DecrL

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Decrl auto-decrement an integer value by 1. DecrL auto-decrement a long value by 1.

Declare Syntax:

Declare Sub cDecrl Lib "time2win.dll" (Value As Integer) Declare Sub cDecrL Lib "time2win.dll" (Value As Long)

Call Syntax:

Call cDecrl(Value%)
Call cDecrL(Value&)

Where:

Value% is the integer value to auto-decrement.
Valeu& is the long value to auto-decrement.

Comments:

These routines are slower than the VB equivalent: Value = Value - 1 but are shorter to type.

Examples:

Dim Value As Integer

Value = 5

Call cDecrl(Value) '4
Call cDecrl(Value) '3

See also: Miscellaneous

StringSAR

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

StringSAR search and replace a string by an another in the specified string.

Declare Syntax:

Declare Function cStringSAR Lib "time2win.dll" (ByVal Txt As String, ByVal Search As String, ByVal Replace As String, ByVal Sensitivity As Integer) As String

Call Syntax:

Test\$ = cStringSAR(Txt\$, Search\$, Replace\$, Sensitivity%)

Where:

Txt\$ the string to proceed.
Search\$ the string to be searched.
Replace\$ the replacement string.

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

Test\$ the returned string with replacement.

Comments:

If the search string is an EMPTY string, the returned string is the passed string.

If an error occurs when creating buffer, the returned string is the passed string.

The length of the replace string can be > or < of the search string.

The replace string can be an EMPTY string. In this case, the search string is removed from the string.

The length of the returned string can't be greater than 25 times the length of the Txt string.

Examples:

Dim Txt As String
Dim Search As String
Dim Replace As String

Dim Test As String

Txt = "TIME TO WIN, TIME TO WIN IS A DLL"

Search = "TIME TO WIN" Replace = "TIME2WIN"

Test = cStringSAR(Txt, Search, Replace, False)

Debug.Print Test ' "TIME2WIN, TIME2WIN IS A DLL"

Search = "TIME to WIN" Replace = "TIME2WIN"

Test = cStringSAR(Txt, Search, Replace, True)

Debug.Print Test '"TIME TO WIN, TIME TO WIN IS A DLL"

Search = " TO " Replace = "2"

Test = cStringSAR(Txt, Search, Replace, True)

Debug.Print Test '"TIME2WIN, TIME2WIN IS A DLL"

See also : String

Miscelleanous: Overview

<u>BaseConversion</u> convert a number string (long integer) from a radix to another radix.

Between check to see if a value is between two other values.

Combination compute C(n,m) which is the number of combinations of n items, taken m at a time.

<u>Convert</u> perform conversion between date, time, hour, minute, hundred.

Decrl auto-decrement an integer value by 1.

DecrL auto-decrement a long value by 1.

Fraction return a value into the form of a fraction.

Incrl auto-increment an integer value by 1.

auto-increment a long value by 1.

return the highest value of the two VARIANT value (INTEGER or LONG).

Min return the smallest value of the two VARIANT value (INTEGER or LONG).

<u>SpellMoney</u> spell money value with hundredth.

<u>TrueBetween</u> check to see if a value is fully between two other values.

PatternMatch, PatternMatchS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

PatternMatch search if a given pattern can be found is a given string. PatternMatchS (only VB 4.0 (32-Bit)) search if a given pattern can be found is a given string (case-sensitive or not).

Declare Syntax:

Declare Function cPatternMatch Lib "time2win.dll" (ByVal Txt As String, ByVal Pattern As String) As Integer Declare Function cPatternMatchS Lib "time2win.dll" (ByVal Txt As String, ByVal Pattern As String, ByVal Sensitivity As Integer) As Integer

Call Syntax:

```
test% = cPatternMatch(Txt$, Pattern$)
test% = cPatternMatch(Txt$, Pattern$, Sensitivity%)
```

Where:

Txt\$ the string to proceed Pattern\$ the pattern to match

Sensitivity% is TRUE for case sensitive search is FALSE for case insensitive search

test% TRUE if the pattern match

FALSE if the pattern not match

Comments:

The char '?' is used to match a single char. The char '*' is used to match a block of char.

For PatternMatch: the matching of all chars (not '?', '*') is case-sensitive. For PatternMatchS: the matching of all chars (not '?', '*') is depending of the Sensitivity parameter.

Examples:

```
test% = cPatternMatch("Under the blue sky, the sun lights", "*")
                                                                                                     'is TRUE
test% = cPatternMatch("Under the blue sky, the sun lights","*??*???*?")
                                                                                                     ' is TRUE
test% = cPatternMatch("Under the blue sky, the sun lights","*Under*")
                                                                                                                'is TRUE
test% = cPatternMatch("Under the blue sky, the sun lights", "*sky*")
                                                                                                                'is TRUE
test% = cPatternMatch("Under the blue sky, the sun lights", "*lights")
                                                                                                                'is TRUE
test% = cPatternMatch("Under the blue sky, the sun lights", "Under*")
                                                                                                                'is TRUE
test% = cPatternMatch("Under the blue sky, the sun lights","??der*sky*ligh??")
                                                                                                                'is TRUE
test% = cPatternMatch("Under the blue sky, the sun lights", "Under?the * s?? *")
                                                                                                                'is TRUE
test% = cPatternMatch("Under the blue sky, the sun lights","*under*")
test% = cPatternMatch("Under the blue sky, the sun lights","Under*sun")
test% = cPatternMatch("Under the blue sky, the sun lights","Under t??e*")
test% = cPatternMatch("Under the blue sky, the sun lights","under?the * s?? *")
                                                                                                                'is FALSE
                                                                                                     ' is FALSE
                                                                                                                 'is FALSE
                                                                                                                'is FALSE
test% = cPatternMatchS("Under the blue sky, the sun lights", "under?the * s?? *", False)
                                                                                                                ' is TRUE
```

See also: String

PatternExtMatch, PatternExtMatchS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

PatternExtMatch search if a given pattern can be found is a given string.

PatternExtMatchS (only VB 4.0 (32-Bit)) search if a given pattern can be found is a given string (case-sensitive or not).

Declare Syntax:

Declare Function cPatternExtMatch Lib "time2win.dll" (ByVal Txt As String, ByVal Pattern As String) As Integer Declare Function cPatternExtMatchS Lib "time2win.dll" (ByVal Txt As String, ByVal Pattern As String, ByVal Sensitivity As Integer) As Integer

Call Syntax:

test% = cPatternMatch(Txt\$, Pattern\$) test% = cPatternMatch(Txt\$, Pattern\$, Sensitivity%)

Where:

Txt\$ the string to proceed Pattern\$ the pattern to match

Sensitivity% is TRUE for case sensitive search is FALSE for case insensitive search

test% TRUE if the pattern match,

<> TRUE if the pattern not match or if an error has occurs

Comments:

PatternExtMatch is a superset of PatternMatch and is a little bit faster.

The char '?' is used to match a single char.

The char '*' is used to match a block of char.

The construct [x-y] is used to match a single char in range of chars (b.e. : [a-m], [n-z], [abcABC], [abgx-y]). The construct [!x-y] or [^x-y] is used to match a single char not in range of chars (b.e. : [!A-Z], [^ - Z], [!abcABC], [^abgx-y]).

The hexa '~xy' is used to match a hexa char (b.e.: ~FF, ~A0, ~78, ~4, ~0A, ~0D).

For PatternExtMatch: the matching of all chars (not '?', '*') is case-sensitive.

For PatternExtMatchS: the matching of all chars (not '?', '*') is depending of the Sensitivity parameter.

If you want to suppress the special syntactic significance of any of `[]*?!^-\~', and match the character exactly, precede it with a `\'.

The returned value can be the following:

MATCH_HEXA match failure on hexa char &xy

MATCH_INTERNAL_ERROR internal error MATCH_PATTERN bad pattern

MATCH_LITERAL match failure on literal match
MATCH_RANGE match failure on [..] construct
MATCH_ABORT premature end of text string

MATCH_END premature end of pattern string

MATCH_VALID valid match

PATTERN_VALID valid pattern
PATTERN_INVALID invalid pattern

PATTERN_ESC literal escape at end of pattern

PATTERN_RANGE
PATTERN_CLOSE
PATTERN_EMPTY
PATTERN_INTERNAL_ERROR
PATTERN MATCH

malformed range in [..] construct no end bracket in [..] construct [..] contstruct is empty internal error bad hexa in ~xy

Examples:

Dim Txt As String

Txt = "Under the blue sky, the sun lights"

```
test% = cPatternExtMatch(Txt, "*")
test% = cPatternExtMatch(Txt, "*??*???*?")
test% = cPatternExtMatch(Txt, "*Under*")
test% = cPatternExtMatch(Txt, "*sky*")
test% = cPatternExtMatch(Txt, "*lights")
test% = cPatternExtMatch(Txt, "Under*")
test% = cPatternExtMatch(Txt, "Quer*sky*ligh??")
test% = cPatternExtMatch(Txt, "Quer*sky*ligh??")
test% = cPatternExtMatch(Txt, "Under?the * s?? *")
test% = cPatternExtMatch(Txt, "[U-U][a-z][a-z][a-z][a-z]?the *")
test% = cPatternExtMatch(Txt, "[U-U][!A-Z][^A-Z][^A-Z][!A-Z]?the *[s-s]")
test% = cPatternExtMatch(Txt, "C55~6E*~73")
test% = cPatternExtMatch(Txt, "[Uu][Nn][dD][eE][opqrst]?the *[rstu]")
test% = cPatternExtMatch(Txt, "Under?the *[~72~73~74~75]")
                                                                                                                                        ' is TRUE
                                                                                                                                        'is TRUE
                                                                                                                                        ' is TRUE
                                                                                                                                        'is TRUE
test% = cPatternExtMatch(Txt, "Under?the *[~72~73~74~75]")
                                                                                                                                        ' is TRUE
test% = cPatternExtMatch(Txt, "*under*")
                                                                                                                                        'is MATCH ABORT
test% = cPatternExtMatch(Txt, "Under*sun")
                                                                                                                                        'is MATCH ABORT
test% = cPatternExtMatch(Txt, "Under t??e*")
                                                                                                                                        'is MATCH LITERAL
test% = cPatternExtMatch(Txt, "[U-U][!a-z][^A-Z][^A-Z][!A-Z]?the *[!s-s]")
                                                                                                                                        'is MATCH RANGE
test% = cPatternExtMatch(Txt, "~55~6G*~73")
                                                                                                                                        'is MATCH HEXA
test% = cPatternExtMatch(Txt, "[Uu][Nn][dD][eE][opgrst]?the *[rStu]")
                                                                                                                                        ' is MATCH_ABORT
test% = cPatternExtMatch(Txt, "Under?the *[~72~53~74~75]")
                                                                                                                                        'is MATCH ABORT
test% = cPatternExtMatchS(Txt, "Under*sun", False)
                                                                                                                                        ' is TRUE
```

See also: String

' definition for error type for PATTERNMATCHEXT

Public Const MATCH_HEXA = 17

Public Const MATCH_INTERNAL_ERROR = 16

Public Const MATCH PATTERN = 15

Public Const MATCH LITERAL = 14

Public Const MATCH RANGE = 13

Public Const MATCH ABORT = 12

Public Const MATCH END = 11

Public Const MATCH_VALID = -1

Public Const PATTERN_VALID = 0

Public Const PATTERN_INVALID = 1

Public Const PATTERN_ESC = 2

Public Const PATTERN_RANGE = 3

Public Const PATTERN_CLOSE = 4

Public Const PATTERN_EMPTY = 5
Public Const PATTERN_INTERNAL_ERROR = 6

Public Const PATTERN_HEXA = 7

' definition for error type for PROPERNAME2
Public Const PN_UPPERCASE = 1
Public Const PN_PUNCTUATION = 2
Public Const PN_KEEP_ORIGINAL = 4
Public Const PN_ONLY_LEADER_SPACE = 8

CheckNumericity

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CheckNumericity check if a string is a numeric string.

Declare Syntax:

Declare Function cCheckNumericity Lib "time2win.dll" (Txt As String) As Integer

Call Syntax:

Test% = cCheckNumericity(Txt\$)

Where:

Txt\$ is the specified string

Test% TRUE : if the string is numeric

FALSE: if the string is not numeric

Comments:

Examples:

Test% = cCheckNumericity("123456789") Test% = cCheckNumericity("A0B1") 'TRUE

'FALSE

See also: String

Morse

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Morse convert a string to a morse string.

Declare Syntax:

Declare Function cMorse Lib "time2win.dll" (ByVal morse As String) As String

Call Syntax:

test\$ = cMorse(morse\$)

Where:

morse\$ is the string to proceed test\$ is the returned string in morse

Comments:

Only the following chars are valid:

```
space
,-./ 0123456789?ABCDEFGHIJKLMNOPQRSTUVWXYZ
```

All other chars are filtered.

Each morse char is separated by a letter space (' '). Each block of char is separated by a word space('~').

These 2 chars ('', '~') are not part of the morse coding. It will be used to facilitate the reading of the morse coding.

Examples:

See also: String

Max, Min

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Max return the highest value of the two VARIANT value (INTEGER or LONG). Min return the smallest value of the two VARIANT value (INTEGER or LONG).

Declare Syntax:

Declare Function cMax Lib "time2win.dll" (Var1 As Variant, Var2 As Variant) As Variant Declare Function cMin Lib "time2win.dll" (Var1 As Variant, Var2 As Variant) As Variant

Call Syntax:

```
test = cMax(Var1, Var2)
test = cMin(Var1, Var2)
```

Where:

Var1 the first value. Var2 the second value.

test the highest/smallest value of the two.

Comments:

Examples:

test = cMax(1234, 4321) '4321 test = cMin(1234, 4321) '1234

See Also : Miscellaneous

Incrl, IncrL

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Incrl auto-increment an integer value by 1. IncrL auto-increment a long value by 1.

Declare Syntax:

Declare Sub clncrl Lib "time2win.dll" (Value As Integer) Declare Sub clncrL Lib "time2win.dll" (Value As Long)

Call Syntax:

Call clncrl(Value%)
Call clncrL(Value&)

Where:

Value% is the integer value to auto-increment. Valeu& is the long value to auto-increment.

Comments:

These routines are slower than the VB equivalent: Value = Value + 1 but are shorter to type.

Examples:

Dim Value As Integer

Value = 5

Call clncrl(Value) ' 6
Call clncrl(Value) ' 7

See also: Miscellaneous

Rnd, RndInit, RndD, RndI, RndL, RndS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RndInit initialize the random generator.

RndD return a double random number.

Rndl return an integer random number.

RndL return a long random number.

RndS return a single random number.

Rnd return a double random number between 0.0 and 1.0.

Declare Syntax:

Declare Sub cRndInit Lib "time2win.dll" (ByVal nRnd As Long)
Declare Function cRndD Lib "time2win.dll" () As Double
Declare Function cRndl Lib "time2win.dll" () As Integer
Declare Function cRndL Lib "time2win.dll" () As Long
Declare Function cRndS Lib "time2win.dll" () As Single
Declare Function cRnd Lib "time2win.dll" () As Double

Call Syntax:

Call cRndInit(nRnd&)
Test% = cRndI()
Test& = cRndL()
Test! = cRndS()
Test# = cRndD()
Test# = cRnd()

Where:

nRnd < 0 : initialization with the current date and time.

> 0 : initialization with the passed value.

Test? the returned random number.

Comments:

Examples:

Call cRndInit(-1)

Debug.Print cRndD() '1,87044922807943E+304 Debug.Print cRnd() '1,87044922807943E+304

See Also: Miscellaneous

SpellMoney

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SpellMoney spell money value with hundredth.

Declare Syntax:

Declare Function cSpellMoney Lib "time2win.dll" (ByVal Value As Double, ByVal Units As String, ByVal Cents As String) As String

Call Syntax:

Test\$ = cSpellMoney(Value#, Units\$, Cents\$)

Where:

Value# is the money value to spell.
Units\$ is the text string for units part.
Cents\$ is the text string for cents part.
Test\$ is the returned spelled money value.

Comments:

Examples:

Test\$ = cSpellMoney("98765.43", "dollars", "cents")

SpellMoney of '4.12' is 'Four dollars and Twelve cents'

SpellMoney of '16' is 'Sixteen dollars'

SpellMoney of '25' is 'Twenty-Five dollars'

SpellMoney of '34' is 'Thirty-Four dollars'

SpellMoney of '43' is 'Forty-Three dollars'

SpellMoney of '61' is 'Sixty-One dollars'

SpellMoney of '98765.43' is 'Ninety-Eight Thousand Seven Hundred Sixty-Five dollars and Forty-Three cents' SpellMoney of '123456789.75' is 'One Hundred Twenty-Three Million Four Hundred Fifty-Six Thousand Seven Hundred Eighty-Nine dollars and Seventy-Five cents'

See also: Miscellaneous

Fraction

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Fraction return a value into the form of a fraction.

Declare Syntax:

Declare Function cFraction Lib "time2win.dll" (ByVal nValue As Double, nNumerator As Double, nDenominator As Double) As Double

Call Syntax:

Test# = cFraction(Value#, Numerator#, Denominator#)

Where:

Value# is the value to proceed.
Numerator# is the returned numerator.
Denominator# is the returned denominator.

Test# is the returned value (Numerator# / Denominator#).

Comments:

Examples:

Dim Value As Double
Dim Numerator As Double

Dim Denominator As Double

Dim CalculatedValue As Double

Value = 0.75

CalculatedValue = cFraction(Value, Numerator, Denominator)

- ' Numerator = 3
- ' Denominator = 4
- 'CalculatedValue = 0.75

Value = 3.14159265

CalculatedValue = cFraction(Value, Numerator, Denominator)

- ' Numerator = 3017882801
- ' Denominator = 960621932
- ' CalculatedValue = 3,14159265

See also: Miscellaneous

Between, TrueBetween

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Between check to see if a value is between two other values.

TrueBetween check to see if a value is fully between two other values.

Declare Syntax:

Declare Function cBetween Lib "time2win.dll" (Var As Variant, Var1 As Variant, Var2 As Variant) As Integer Declare Function cTrueBetween Lib "time2win.dll" (Var As Variant, Var1 As Variant, Var2 As Variant) As Integer

Call Syntax:

test = cBetween(var, var1, var2)

Where:

var value to test var1 first value var2 second value

test TRUE if var is between/fully between var1 and var2

FALSE if var is not between/fully between var1 and var2

Comments:

var, var1, var2 are Variant value. In this routine, only Integer, Long, Single, Double are supported.

Examples:

var = 5 var1 = 1 var2 = 10

test = cBetween(var, var1, var2) 'test = TRUE test = cTrueBetween(var, var1, var2) 'test = TRUE

var = 10

See Also: Miscellaneous

Type: Overview

TypesCompare
CompareTypeString

compareTypeString compare two Type'd variable. compare a Type'd to a String. compare a String to a Type'd. <u>CompareStringType</u>

TypeClear clear a Type'd variable.

TypeMid extract information from a Type'd variable.

TypesCopy copy a Type'd variable into a variable. **TypeTransfert** transfer a Type'd variable into a String.

StringToType TypeToString copy a String to a Type'd variable. copy a Type'd variable to a String. Type.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

TypesCompare compares two Type'd variable.
CompareTypeString compares a Type'd to a String.
CompareStringType compares a String to a Type'd.

TypeClear clears a Type'd variable.

TypeMid extracts information from a Type'd variable.

TypesCopy copies a Type'd variable into a variable. TypeTransfert transfers a Type'd variable into a String.

StringToType copies a String to a Type'd variable. TypeToString copies a Type'd variable to a String.

Declare Syntax:

Declare Function cTypesCompare Lib "time2win.dll" (Type1 As Any, Type2 As Any, ByVal lenType1 As Integer) As Integer

Declare Function cCompareTypeString Lib "time2win.dll" Alias "cTypesCompare" (TypeSrc As Any, ByVal Dst As String, ByVal lenTypeSrc As Integer) As Integer

Declare Function cCompareStringType Lib "time2win.dll" Alias "cTypesCompare" (ByVal Src As String, TypeDst As Any, ByVal lenTypeSrc As Integer) As Integer

Declare Sub cTypeClear Lib "time2win.dll" (TypeSrc As Any, ByVal lenTypeSrc As Integer)
Declare Function cTypeMid Lib "time2win.dll" (TypeSrc As Any, ByVal Offset As Integer, ByVal Length As Integer) As String

Declare Sub cTypesCopy Lib "time2win.dll" (TypeSrc As Any, TypeDst As Any, ByVal lenTypeSrc As Integer) Declare Function cTypeTransfert Lib "time2win.dll" (TypeSrc As Any, ByVal lenTypeSrc As Integer) As String

Declare Sub cStringToType Lib "time2win.dll" Alias "cTypesCopy" (ByVal Src As String, TypeDst As Any, ByVal lenTypeSrc As Integer)

Declare Sub cTypeToString Lib "time2win.dll" Alias "cTypesCopy" (TypeSrc As Any, ByVal Dst As String, ByVal lenTypeSrc As Integer)

Call Syntax:

test% = cTypesCompare(Type1, Type2, len(Type1))
test% = cCompareTypeString(TypeSrc, Dst, len(TypeSrc))
test% = cCompareStringType(Src, TypeDst, len(TypeDst))

Call cTypeClear(TypeSrc, len(TypeSrc) test\$ = cTypeMid(TypeSrc, Offset, Length)

Call cTypesCopy(TypeSrc, TypeDst, len(TypeSrc))
test\$ = cTypeTransfert(TypeSrc, len(TypeSrc)

Call cStringToType(Src, TypeDst, len(TypeDst))
Call cTypeToString(TypeSrc, Dst, len(TypeSrc))

Where:

Type1, Type2, TypeSrc, TypeDst the Type'd variable Src, Dst, the String variable

Offset the offset in the Type'd variable Length the length in the Type'd variable

test% TRUE if the variables to compare are the same FALSE if the variables to compare are not the same

test\$ the result

Comments:

Only Type'd variable mixed with INTEGER, LONG, SINGLE, DOUBLE, CURRENCY and FIXED STRING can be used.

When you compare 2 Type'd variables or 1 Type'd variable and 1 string, the size of each variable must be same. When you copy 1 Type'd variable into a string or a string into Type'd variable, the size of each variable must be same.

Examples:

See also : Type

BaseConversion

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

BaseConversion convert a number string (long integer) from a radix to another radix.

Declare Syntax:

Declare Function cBaseConversion Lib "time2win.dll" (ByVal Num As String, ByVal RadixIn As Integer, ByVal RadixOut As Integer) As String

Call Syntax:

test\$ = cBaseConversion(Num\$, RadixIn%, RadixOut%)

Where:

Num\$ is the number string to convert RadixIn% is the base of the radix RadixOut% is the new base of the radix

test\$ is the result

Comments:

If the number string can be converted, the returned string is an EMPTY string.

Examples:

Convert '1234567' base 10 to base 2 is 100101101011010000111 Convert '1234567' base 10 to base 3 is 2022201111201 Convert '1234567' base 10 to base 4 is 10231122013 Convert '1234567' base 10 to base 5 is 304001232 Convert '1234567' base 10 to base 6 is 42243331 Convert '1234567' base 10 to base 7 is 13331215 Convert '1234567' base 10 to base 8 is 4553207 Convert '1234567' base 10 to base 9 is 2281451 Convert '1234567' base 10 to base 10 is 1234567 Convert '1234567' base 10 to base 11 is 773604 Convert '1234567' base 10 to base 12 is 4b6547 Convert '1234567' base 10 to base 13 is 342c19 Convert '1234567' base 10 to base 14 is 241cb5 Convert '1234567' base 10 to base 15 is 195be7 Convert '1234567' base 10 to base 16 is 12d687 Convert '1234567' base 10 to base 17 is ed4ea Convert '1234567' base 10 to base 18 is bdc71 Convert '1234567' base 10 to base 19 is 98ig4 Convert '1234567' base 10 to base 20 is 7e687

See also: Miscellaneous

DBFileCopy, PBFileCopy

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

PBFileCopy copy a file to an another file and display a progress bar a client standard control.

DBFileCopy copy a file to an another file and display a dialog box with title, captions, progress bar and cancel button

Declare Syntax:

Declare Function cPBFileCopy Lib "time2win.dll" (ByVal hwndParent As Long, ByVal FileNameIn As String, ByVal FileNameOut As String) As Integer

Declare Function cDBFileCopy Lib "time2win.dll" (ByVal Title As String, ByVal CaptionFrom As String, ByVal CaptionFom As String, ByVal CaptionButton As String, ByVal FileNameIn As String, ByVal FileNameOut As String) As Integer

Call Syntax:

intResult% = cPBFileCopy(hWndParent&, FileNameIn\$, FileNameOut\$) intResult% = cDBFileCopy(Title\$, CaptionFrom\$, CaptionTo\$, CaptionButton\$, FileNameIn\$, FileNameOut\$)

Where:

hWndParent& is the .hWnd of the standard control or of the form.

FileNameIn\$ is the file to be copied.
FileNameOut\$ is the file copied.

Title\$ is the title of the dialog box.

CaptionFrom\$ is the caption for the file to be copied.
CaptionTo\$ is the caption for the file copied.
CaptionButton\$ is the caption for the 'cancel' button.

intResult% = TRUE : no error

= FALSE : an error has occured

Comments:

Examples:

For cPBFileCopy:

Dim intResult As Long
Dim strResult As String

Dim strDisplay As String

Dim i As Long

Dim File1 As String
Dim File2 As String

strResult = "" strDisplay = ""

File1 = cGetWindowsDirectory() + "\" + "system.dat"

File2 = "system.pbcopy"

strDisplay = strDisplay & "PB File Copy " & File1 & " to " & File2 & " is " & cPBFileCopy(Me.hWnd, File1, File2) & vbCrLf & vbCrLf

Debug.Print strDisplay

For cDBFileCopy:

```
Dim intResult As Long
Dim strResult As String
Dim strDisplay As String
```

Dim i As Long

Dim File1 As String

Dim File2 As String

strResult = "" strDisplay = ""

File1 = cGetWindowsDirectory() + "\" + "system.dat"

File2 = "system.dbcopy"

strDisplay = strDisplay & "DB File Copy " & File1 & " to " & File2 & " is " & cDBFileCopy("", "", "", File1, File2) & vbCrLf & vbCrLf

File1 = cGetWindowsDirectory() + "\" + "command.com"

File2 = "command.dbcopy"

strDisplay = strDisplay & "DB File Copy " & File1 & " to " & File2 & " is " & cDBFileCopy("", "", "", File1, File2) & vbCrLf & vbCrLf

Debug.Print strDisplay

See also: Windows 95

Combination

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, MSOffice 95

Purpose:

Combination compute C(n,m) which is the number of combinations of n items, taken m at a time.

Declare Syntax:

Declare Function cCombination Lib "time2win.dll" (ByVal nItems As Integer, ByVal mTimes As Integer) As Double

Call Syntax:

Test# = cCombination(nItems%, mTimes%)

Where:

nltems the number of items.
mTimes% the number taken.

Test# the result.

Comments:

If nltems is below 0 or if mTimes is not between 0 and nltems, the result is -1. Beware of using to big nltems and/or mTimes, this gives an overflow.

Examples:

Debug.Print cCombination(42, 0) '1
Debug.Print cCombination(42, 1) '42
Debug.Print cCombination(42, 2) '861

Debug.Print cCombination(42, 42) '1
Debug.Print cCombination(42, 41) '42
Debug.Print cCombination(42, 40) '861

See also: Miscellaneous

Windows 95/NT 4.0x: Overview

DBFileCopy copies a file to an another file and display a dialog box with title, captions,

progress bar and cancel button.

<u>ExplorerAddToRecentDocs</u> adds a document to the shell's list of recently used documents.

<u>ExplorerClearAllRecentDocs</u> clears all documents from the shell's list of recently used documents.

<u>GetFileDisplayName</u> retrieves the EXPLORER (95/NT4.0x) display name of a file.

<u>GetFileTypeName</u> retrieves the EXPLORER (95/NT4.0x) type name of a file.

<u>GetOSBuildNumber</u> identifies the build number of the operating system.

<u>GetOSCSDVersion</u> provides arbitrary additional information about the operating system.

GetOSMajorVersion identifies the major version number of the operating system.

GetOSMinorVersion identifies the minor version number of the operating system.

<u>GetOSVersion</u> identifies the version number of the operating system (major.minor version).

GetOSPlatformId identifies the operating system platform in a numerical format.

<u>GetOSPlatformName</u> identifies the operating system platform in a readable format (string).

GetShortPathName retrieves the short path form of a specified input path.

 IsCapsLockOn
 verifies if the CAPS LOCK key is On.

 IsInsertOn
 verifies if the INSERT key is On.

 IsNumLockOn
 verifies if the NUM LOCK key is On.

 IsScrollLockOn
 verifies if the SCROLL LOCK key is On.

 LockKeyboard
 locks/unlocks the keyboard for any applications.

LockMouse locks/unlocks the mouse (any events : left, middle and right click) for any

applications.

<u>MemoryStatus</u> retrieves the actual state of the memory.

<u>MultitasksKeys</u> disables/enables CTRL+ALT+DEL and ALT+TAB.

PBFileCopy copies a file to an another file and display a progress bar a client standard

control.

SetCapsLocksets the CAPS LOCK key On or Off.SetInsertsets the INSERT key On or Off.SetNumLocksets the NUM LOCK key On or Off.SetScrollLocksets the SCROLL LOCK key On or Off.ShortcutCreatecreates a shortcut from a specified file.

<u>ShortcutFileGetArguments</u>
<u>ShortcutFileGetDescription</u>
<u>ShortcutFileGetIconLocation</u>
retrieves the argument list from a shortcut file (*.lnk).
retrieves the description from a shortcut file (*.lnk).
retrieves the icon location from a shortcut file (*.lnk).

<u>ShortcutFileGetPath</u> retrieves the path from a shortcut file (*.lnk).

ShortcutFileGetPath83 retrieves the path (in format 8.3) from a shortcut file (*.lnk). ShortcutFileGetWorkingDir retrieves the working directory from a shortcut file (*.lnk).

ShortcutFileGetInfo is a generic function to retrieve the above parameter from a shortcut file (*.lnk).

ShortcutFileSetArguments modifies the argument list in a shortcut file (*.lnk).

<u>ShortcutFileSetDescription</u> modifies the description in a shortcut file (*.lnk). modifies the icon location in a shortcut file (*.lnk).

ShortcutFileSetPath modifies the path in a shortcut file (*.lnk).

ShortcutFileSetWorkingDir modifies the working directory in a shortcut file (*.lnk).

ShortcutFileSetInfo is a generic function to modify the above parameter in a shortcut file (*.lnk).

TaskBarAddlconadds an icon for an application in the tray of the task bar.TaskBarDeleteIcondeletes the tray icon from an application in the task bar.TaskBarModifyIconmodifies an icon for an application in the tray of the task bar.TrashFilesends a file to the trash with persistance and confirmation.

TrayBar hides/shows the tray bar.

GetRegistry, KillRegistry, PutRegistry

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetRegistry return a key setting value from an application's Windows registry entry. KillRegistry delete a section or key setting from the Windows registry entry. PutRegistry save or create an application entry in the Windows registry entry.

Declare Syntax:

Declare Function cGetRegistry Lib "time2win.dll" (ByVal IpSection As String, ByVal IpKey As String, ByVal IpDefault As String) As String

Declare Function cPutRegistry Lib "time2win.dll" (ByVal lpSection As String, ByVal lpKey As String, ByVal lpValue As String) As Integer

Declare Function cKillRegistry Lib "time2win.dll" (ByVal IpSection As String, ByVal IpKey As String) As Integer

Call Syntax:

retCode% = cPutRegistry(lpSection\$, lpKey\$, lpValue\$) retData\$ = cGetRegistry(lpSection\$, lpKey\$, lpDefault\$) retCode% = cKillRegistry(lpSections\$, lpKey\$)

Where:

lpSection\$ string expression containing the name of the section where the key setting is being saved.

lpKey\$ string expression containing the name of the key setting being saved.

lpValue\$ string expression containing the value that key is being set to.

lpDefault\$ a string that specifies the default value for the given entry if the entry cannot be found in the

specified section.

retCode% <u>error/success code</u>.

Comments:

Examples:

Debug.Print cPutRegistry("under the fox", "", "no key")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("under the fox", "key1", "test key1")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("under the fox", "key2", "test key2")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("under the fox\time2win", "ID", "25")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("under the fox\time2win", "Name", "MR")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("under the fox\time2win", "", "license")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("software\The MCR Company\TIME TO WIN for VB 4.0", "", "Code name")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("software\The MCR Company\TIME TO WIN for VB 4.0", "Name", "James")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("software\The MCR Company\TIME TO WIN for VB 4.0", "Id", "Donb")	' -1
(RK_NO_ERROR)	
Debug.Print cPutRegistry("software\The MCR Company\TIME TO WIN for VB 4.0", "N°", "007")	' -1
(RK NO ERROR)	

Debug.Print cGetRegistry("software\The MCR Company\TIME TO WIN for VB 4.0", "", ""?1") name	Code
Debug.Print cGetRegistry("software\The MCR Company\TIME TO WIN for VB 4.0", "RegName", "?2") Debug.Print cGetRegistry("software\The MCR Company\TIME TO WIN for VB 4.0", "RegId", "?3")	' James ' Donb
Debug.Print cGetRegistry("software\The MCR Company\TIME TO WIN for VB 4.0", "RegN°", "?4")	' 007
Debug.Print cKillRegistry("under the fox", "") Debug.Print cKillRegistry("software\The MCR Company", "")	' -1 ' -1

See also: Registry key

' structure for windows 95 memory

Type tagMEMORYSTATUS		
dwLength	As Long	
dwMemoryLoad	As Long	
dwTotalPhys	As Long	
dwAvailPhys	As Long	
dwTotalPageFile	As Long	
dwAvailPageFile	As Long	
dwTotalVirtual	As Long	
dwAvailVirtual	As Long	

End Type

' sizeof(MEMORYSTATUS)
' percent of memory in use
' bytes of physical memory
' free physical memory bytes
' bytes of paging file
' free bytes of paging file
' user bytes of address space
' free user bytes

' configuration code

Public Const RK_HKEY_CLASSES_ROOT = 1
Public Const RK_HKEY_CURRENT_USER = 2
Public Const RK_HKEY_LOCAL_MACHINE = 3
Public Const RK_HKEY_USERS = 4
Public Const RK_HKEY_PERFORMANCE_DATA = 5

Public Const RK_HKEY_PERFORMANCE_DATA = 5
Public Const RK_HKEY_CURRENT_CONFIG = 6

Public Const RK_HKEY_DYN_DATA = 7

'error/success code

Public Const RK_NO_ERROR = -1 Public Const RK_KEY_IS_EMPTY = 1

Public Const RK_KEY_IS_EMPTY = 1
Public Const RK_UNABLE_TO_CREATE_KEY = 2
Public Const RK_UNABLE_TO_OPEN_KEY = 3
Public Const RK_UNKNOWN_DISPOSITION = 4
Public Const RK_CANNOT_SET_THE_VALUE = 5
Public Const RK_UNABLE_TO_QUERY_KEY = 6

MemoryStatus

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MemoryStatus retrieve the actual state of the memory.

Declare Syntax:

Declare Sub cMemoryStatus Lib "time2win.dll" (MEMORYSTATUS As tagMEMORYSTATUS)

Call Syntax:

Call cMemoryStatus(MEMORYSTATUS)

Where:

MEMORYSTATUS is the type'd variable to receive the actual memory status.

Comments:

MEMORYSTATUS.dwMemoryLoad:

Specifies a number between 0 and 100 that gives a general idea of current memory utilization, in which 0 indicates no memory use and 100 indicates full memory use.

MEMORYSTATUS.dwTotalPhys:

Indicates the total number of bytes of physical memory.

MEMORYSTATUS.dwAvailPhys:

Indicates the number of bytes of physical memory available.

MEMORYSTATUS.dwTotalPageFile:

Indicates the total number of bytes that can be stored in the paging file. Note that this number does not represent the actual physical size of the paging file on disk.

MEMORYSTATUS.dwAvailPageFile:

Indicates the number of bytes available in the paging file.

MEMORYSTATUS.dwTotalVirtual:

Indicates the total number of bytes that can be described in the user mode portion of the virtual address space of the calling process.

MEMORYSTATUS.dwAvailVirtual:

Indicates the number of bytes of unreserved and uncommitted memory in the user mode portion of the virtual address space of the calling process.

Examples:

Dim strDisplay As String

```
Dim MSS
```

As tagMEMORYSTATUS

strDisplay = ""

Call cMemoryStatus(MSS)

```
strDisplay = strDisplay & "dwMemoryLoad = " & MSS.dwMemoryLoad & vbCrLf strDisplay = strDisplay & "dwTotalPhys = " & MSS.dwTotalPhys & vbCrLf strDisplay = strDisplay & "dwAvailPhys = " & MSS.dwAvailPhys & vbCrLf strDisplay = strDisplay & "dwTotalPageFile = " & MSS.dwTotalPageFile & vbCrLf strDisplay = strDisplay & "dwAvailPageFile = " & MSS.dwAvailPageFile & vbCrLf strDisplay = strDisplay & "dwTotalVirtual = " & MSS.dwTotalVirtual & vbCrLf strDisplay = strDisplay & "dwAvailVirtual = " & MSS.dwAvailVirtual & vbCrLf
```

Debug.Print strDisplay

See also: Windows 95

SwapD swap two Double swap two Integer swap two Double values. swap two Integer values. swap two Long values. swap two Single values. swap two strings. SwapL SwapS SwapStr

Matrix: Overview

MatrixAdd add two square matrix.

<u>MatrixCoFactor</u> calculate the CoFactor of an element in a square matrix.

<u>MatrixCompare</u> compare two square matrix. <u>MatrixCopy</u> copy a square matrix.

MatrixDet calculate the Determinant of a square matrix.

MatrixFill fill a square matrix (matrix zero, matrix unit).

<u>MatrixInv</u> invert a square matrix (determinant can't be nul).

<u>MatrixMinor</u> calculate the Minor of an element in a square matrix.

MatrixMulmultiply two square matrix.MatrixSubsubstract two square matrix.

MatrixSymToeplitz create a symmetrical Toeplitz matrix.

<u>MatrixTranspose</u> transpose a square matrix.

Random: Overview

return a double random number between 0.0 and 1.0. return a double random number.

RndD RndD return an integer random number. initialize the random generator. return a long random number. RndInit RndL RndS return a single random number.

Matrix

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

MatrixAdd add two square matrix.

MatrixCoFactor calculate the CoFactor of an element in a square matrix.

MatrixCompare compare two square matrix.

MatrixCopy copy a square matrix.

MatrixDet calculate the Determinant of a square matrix.

MatrixFill fill a square matrix (matrix zero, matrix unit).

MatrixInv invert a square matrix (determinant can't be nul).

MatrixMinor calculate the Minor of an element in a square matrix.

MatrixMul multiply two square matrix.

MatrixSub substract two square matrix.

MatrixSymToeplitz create a symmetrical Toeplitz matrix.

MatrixTranspose transpose a square matrix.

Declare Syntax:

Declare Sub cMatrixAdd Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ArrayB() As Double, ArrayC() As Double)

Declare Function cMatrixCoFactor Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ByVal Row As Integer, ByVal Col As Integer) As Double

Declare Function cMatrixCompare Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ArrayC() As Double) As Integer

Declare Sub cMatrixCopy Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ArrayC() As Double)

Declare Function cMatrixDet Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double) As Double

Declare Function cMatrixFill Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ByVal nInit As Integer) As Integer

Declare Function cMatrixInv Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ArrayC() As Double) As Integer

Declare Function cMatrixMinor Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ByVal Row As Integer, ByVal Col As Integer) As Double

Declare Sub cMatrixMul Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ArrayB() As Double, ArrayC() As Double)

Declare Sub cMatrixSub Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ArrayB() As Double, ArrayC() As Double)

Declare Function cMatrixSymToeplitz Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ArrayC() As Double) As Integer

Declare Sub cMatrixTranspose Lib "time2win.dll" (ByVal Size As Integer, ArrayA() As Double, ArrayC() As Double)

Call Syntax:

Call cMatrixAdd(Size%, ArrayA(), ArrayB(), ArrayC())

Test# = cMatrixCoFactor(Size%, ArrayA(), Row, Col)

Test% = cMatrixCompare(Size%, ArrayA(), ArrayC())

Call cMatrixCopy(Size%, ArrayA(), ArrayC())

Test# = cMatrixDet(Size%, ArrayA())

Test% = cMatrixFill(Size%, ArrayA), nlnit%)

Test% = cMatrixInv(Size%, ArrayA(), ArrayC())

Test# = cMatrixMinor(Size%, ArrayA(), Row, Col)

Call cMatrixMul(Size%, ArrayA(), ArrayB(), ArrayC())

Call cMatrixSub(Size%, ArrayA(), ArrayB(), ArrayC())

Test% = cMatrixSymToeplitz(Size%, ArrayA(), ArrayC())

Call cMatrixTranspose(Size%, ArrayA(), ArrayB(), ArrayC())

Where:

Size% is the size for the matrixes.

ArrayA() ArrayB() ArrayC() nInit% is the first square matrix (only double value). is the second square matrix (only double value). is the result square matrix (only double value). MATRIX_ZERO or MATRIX_UNIT.

= True, matrixes are the same,

Test%

= False, matrixes are not the same.

Comments:

These matrixes functions doesn't check if the matrix is really square and if the size is ok. All matrixes must be the same square (N x N).

Examples:

See the demo file.

See also:

File: Overview

AllSubDirectories retrieve all sub-directories from a specified directory (root or sub-directory).

<u>ChDir</u> change the directory. <u>ChDrive</u> change the drive.

<u>CmpFileContents</u> compare the attribute of two files. <u>CmpFileContents</u> compare the contents of two files.

<u>CmpFileContents</u> compare the contents of two files.

<u>CmpFileSize</u> compare the size of two files.

 CmpFileTime
 compare the date and time of two files.

 CountDirectories
 count the total directory in a specified directory.

 CountFiles
 count the total files founded in a specified directory.

 CutFile
 cut of the parts (greation of two files)

<u>CutFile</u> cut a file in two parts (creation of two files).

EnumOpenFiles enumerate all open files and/or all unmovable open files.

FileChangeChars replace all chars in a char set by a new char set.

FileCompressTab compress a number of spaces specified into a TAB char (horizontal tab).

FileExpandTab expand a TAB char (horizontal tab) into a number of spaces.

<u>FileCopy</u> copy one file to an another file.

FileCopy2 copy one file to an another file.

<u>FileDateCreated</u> retrieve the date when the file has been created.

 FileForceCopy
 copy one file to an another file with the same file attribute.

 FileLastDateAccess
 retrieve the date when the file has been last accessed.

 FileLastDateModified
 retrieve the date when the file has been last modified.

 FileLastTimeAccess
 retrieve the time when the file has been created.

 FileLastTimeModified
 retrieve the time when the file has been last accessed.

 FileLastTimeModified
 retrieve the time when the file has been last modified.

<u>FileDrive</u> extract the drive on which the file is present.

FileFilter copy one file to an another file but filters some chars.

FileFilterNot copy one file to an another file but filters chars not present in the filter.

<u>FileGetAttrib</u> retrieves in one call, all attributes of a file. <u>FileLineCount</u> count the total number of lines in an ASCII file.

<u>FileMerge</u> merge two files in one.

<u>FileMergeExt</u> merge all files in an array in one.

<u>FileMove</u> move/rename a file in the same or in an another directory. <u>FilePartAppend</u> appends part of one file to another file starting at or until Offset.

<u>FilePartCopy</u> copies part of one file to another file starting at or until Offset.

<u>FilePathExists</u> verify if the specified file is present.

FileResetAllAttrib reset all attributes of a file.

 FileResetArchive
 reset the archive attribute of a file.

 FileResetHidden
 reset the hidden attribute of a file.

 FileResetReadOnly
 reset the read-only attribute of a file.

 FileResetSystem
 reset the system attribute of a file.

 FileResetFlag
 reset the specified attributes of a file.

<u>FileScanHeader</u> searchs a string in a given HEADER file starting at a certain line number. searchs a string (recipients like "to: ", "cc: ", "bcc: ") in a given HEADER file

starting at a certain line number.

<u>FileSearch</u> search a string in a given TEXT file.

FileSearchCount count.the occurence of a string in a given TEXT file.

FileSearchAndReplace search and replace a string by an another in the specified TEXT file.

Search and replace a string by an another in the specified TEXT file.

searchs a string in a given TEXT file starting at a certain line number.

<u>FileSearchPatternFromLine</u> searchs a pattern string in a given TEXT file starting at a certain line number.

FileSetAllAttrib set all attributes of a file.

FileSetArchive set the archive attribute of a file.

FileSetHidden set the hidden attribute of a file.

FileSetReadOnly set the read-only attribute of a file.

FileSetSystem set the system attribute of a file.

FileSetFlag set the specified attributes of a file.

FileSetAttrib set in one call, attributes of a given file.

<u>FilesCopy</u> copy files from one directory to an another directory.

FilesInDirectory retrieve each file in the specified directory.

FilesInDirOnDisk write all files from a specified directory into a file on disk.

<u>FilesInDirToArray</u> read all files from a specified directory into an array.

FilesInfoInDir retrieve each file in the specified directory and returns name, size, Int date, Int

time, attribute.

<u>FilesMove</u> move files from one directory to an another directory/disk.

<u>FileSize</u> return the size of the specified file.

FileSort sort an ASCII file or a BINARY file in ascending or descending order with case

sensitive or not.

<u>FilesSize</u> return the logical size of all files specified by file mask. return the physical size of all files specified by file mask.

FilesSlack return in one call, the slack from all files specified by file mask, the logical size

and the physical size.

<u>FileStatictics</u> count the lines, words and chars in a specified file.

FileToLower convert a file to a file with lower case.

FileToUpper convert a file to a file with upper case.

FileWrapLine wraps a file in multiple lines with a maximum length by line.

FullPath convert a partial path stored in path to a fully qualified path.

GetDiskFree retrieve the free disk space of a disk (hard disk or floppy disk).

 GetDiskSpace
 retrieve the size of a disk (hard disk or floppy disk).

 GetDiskUsed
 retrieve the part used of a disk (hard disk or floppy disk).

 GetDiskClusterSize
 retrieve the size of a cluster on a disk (hard disk or floppy disk).

 GetDriveType
 determine whether a disk drive is removable, fixed, or remote.

GetFileDateTime retrieve in one routine all date & time informations (creation, last access, last

write) for a file.

KillDir delete the specified empty directory.

KillDirs delete the specified directory and its associated directories.

KillDirFilesAll delete all files specified by a mask in the specified directory and its associated

sub-dir.

KillFile delete the specified filename.

KillFileAll delete the specified filename with any attribute.

KillFiles delete all files specified by a file mask.

KillFilesAll delete all files specified by a file mask even if some files are READ-ONLY files.

<u>MakeDir</u> create the specified directory.

MakeMultipleDir create a multiple directory in one call.

MakePath create a single path, composed of a drive letter, directory path, filename, and

filename extension.

RcsCountFileDir count the total directories or files in a specified directory (with recursivity or not).

RcsFilesSize count the total directories or files in a specified directory (with recursivity or not).

or not).

RcsFilesSizeOnDisk return the physical size of files by file mask in a specified directory (with

recursivity or not).

RcsFilesSlack return, in one call, the slack from files, the logical size and the physical size (with

recursivity or not).

RenameFile rename a file or moves a file from one path to an other path.

SearchDir perform a directory match starting with a specified path.

SearchFile perform a file match starting with a specified path.

<u>SearchFileAttrib</u> perform a file (with attribute) match starting with a specified path.

SetFileDateTime set in one routine all date & time informations (creation, last access, last write) for

a file.

SplitFilesplit a file into target files based on a part size.SplitPathbreak a full path into its four components.

<u>SubDirectory</u> retrieve all sub-directories from the specified mask.

<u>TruncatePath</u> truncate a long path with filename.

UniqueFileName create a unique filename by modifying a given template argument.

AllSubDirectories

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

AllSubDirectories retrieve all sub-directories from a specified directory (root or sub-directory).

Declare Syntax:

Declare Function cAllSubDirectories Lib "time2win.dll" (ByVal IpBaseDirectory As String, nDir As Integer) As String

Call Syntax:

test\$ = AllSubDirectories(lpBaseDirectory, nDir)

Where:

lpBaseDirectory\$ is the specified directory nDir% < 0 if an error has occured,

> 0 the number of directories founded

test\$ return the directories in one string. Each directory is separated by a CR.

Comments:

Don't forget that this function can handle a maximum of 700 directories of 70 chars long each. The returned string is always automatically sorted in ascending order.

The returned value in 'nDir' can be negative and have the following value :

-32760 allocation error for memory buffer 1. -32761 allocation error for memory buffer 2.

Examples:

test = cAllSubDirectories("C:",nDir)

ChDir

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ChDir change the directory.

Declare Syntax:

Declare Function cChDir Lib "time2win.dll" (ByVal lpDir As String) As Integer

Call Syntax :

status = cChDir(lpDir)

Where:

lpDir is the new directory status TRUE is all is OK

<> TRUE is an error occurs

Comments:

This fonction is the same that ChDir but doesn't generate an VB Error if a problem occurs.

ChDrive

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, MSOffice 95

Purpose:

ChDrive change the drive.

Declare Syntax:

Declare Function cChDrive Lib "time2win.dll" (ByVal lpDrive As String) As Integer

Call Syntax :

status = cChDrive(lpDrive)

Where:

IpDrive is the new drive status TRUE is all is OK

<> TRUE is an error occurs

Comments:

This fonction is the same that ChDrive but doesn't generate an Error if a problem occurs.

FileCompressTab, FileExpandTab

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

FileCompressTab compress a number of spaces specified into a TAB char (horizontal tab). FileExpandTab expand a TAB char (horizontal tab) into a number of spaces.

Declare Syntax:

Declare Function cFileCompressTab Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String, ByVal nTab As Integer) As Long

Declare Function cFileExpandTab Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String, ByVal nTab As Integer) As Long

Call Syntax:

```
test& = cFileCompressTab(file1, file2, nTab)
test& = cFileExpandTab(file1, file2, nTab)
```

Where:

file1\$ is the source file. file2\$ is the destination file.

nTab% is the number of spaces corresponding to a TAB char (horizontal tab).

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The number of spaces to compress/expand a TAB must be 2 minimum.

Beware of the fact, that if the original file you want to compress spaces contains embedded TAB char, the expanded file is bigger than the original file.

The returned value can be negative and have the following value:

- -1 number of spaces is below 2.
- overflow error in the expanding buffer for FileExpandTab.
- -32720 the number of chars in a block for writing differs from the number of chars for reading.
- -32730 reading error for file 1.
- -32740 writing error for file 2.
- -32750 opening error for file 1.
- -32751 opening error for file 2.
- -32760 allocation error for memory buffer 1.
- -32761 allocation error for memory buffer 2.

Examples:

```
test& = cFileCompressTab("c:\autoexec.bat", "c:\autoexec.tb1", 3) test& = cFileExpandTab("c:\autoexec.tb1", "c:\autoexec.tb2", 3)
```

FileCopy

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileCopy copy one file to an another file.

Declare Syntax:

Declare Function cFileCopy Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String) As Long

Call Syntax:

test& = cFileCopy(file1, file2)

Where:

file1\$ is the source file. file2\$ is the destination file.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The returned value can be negative and have the following value:

-32720 the number of chars in a block for writing differs from the number of chars for reading.

-32730 reading error for file 1.

-32740 writing error for file 2.

-32750 opening error for file 1.

-32751 opening error for file 2.

-32760 allocation error for memory buffer.

Examples:

test& = cFileCopy("c:\autoexec.bat", "c:\autoexec.tab")

See also : $\underline{\mathsf{File}}$

FileMove

 $\textbf{QuickInfo: VB 3.0, VB 4.0 (16-Bit), } \underline{\text{VB 4.0 (32-Bit)}} \\ | \underline{\text{VB 5.0}} \\ | \underline{\text{VBA 5.0 \{Win95/WinNT\}}}, \\ \underline{\text{MSOffice 95}} \\ | \underline{\text{MSOffice 95}$

Purpose:

FileMove move/rename a file in the same or in an another directory.

Declare Syntax:

Declare Function cFileMove Lib "time2win.dll" (ByVal File1 As String, ByVal File2 As String) As Long

Call Syntax:

test& = cFileMove(File1, File2)

Where:

File1 is the source file
File2 is the destination file
test& >= 0 : the length of the file
< 0 : an error has occured.

Comments:

Examples:

FileFilter, FileFilterNot

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileFilter copy one file to an another file but filters some chars.

FileFilterNot copy one file to an another file but filters chars not present in the filter.

Declare Syntax:

Declare Function cFileFilter Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String, Filter As String) As Long Declare Function cFileFilterNot Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String, Filter As String) As Long

Call Syntax:

```
test& = cFileFilter(file1, file2, filter)
test& = cFileFilterNot(file1, file2, filternot)
```

Where:

file1\$ is the source file.
file2\$ is the destination file.

filter\$ is the filter to use to remove chars from the source file.

filternot\$ is the filter to use to remove chars not present in the filter from the source file.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The returned value can be negative and have the following value:

-1 the filter is an EMPTY string.

-32730 reading error for file 1.

-32740 writing error for file 2.

-32750 opening error for file 1.

-32751 opening error for file 2.

-32760 allocation error for memory buffer 1.

-32761 allocation error for memory buffer 2.

Examples:

test& = cFileFilter("c:\autoexec.bat", "c:\autoexec.tab",
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz")
test& = cFileFilterNot("c:\autoexec.bat", "c:\autoexec.tab",
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz")

FileSize

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileSize return the size of the specified file.

Declare Syntax:

Declare Function cFileSize Lib "time2win.dll" (ByVal lpFilename As String) As Long

Call Syntax :

test& = cFileSize(lpFilename)

Where:

lpFilename the file to proceed test& the size of the file

Comments:

If the file is not present or if an error occurs when accessing the file, the return value is 0

FileLineCount

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileLineCount count the total number of lines in an ASCII file.

Declare Syntax :

Declare Function cFileLineCount Lib "time2win.dll" (ByVal IpFilename As String) As Long

Call Syntax:

test& = cFileLineCount(lpFilename\$)

Where:

lpFilename\$ is the name of the file. test& is the total number of lines.

Comments:

Each line (any size) is determined only if a CR is ending the line.

The returned value can be negative and have the following value :

- -1 error opening file (not exist, not a valid filename).
- -2 error reading file.
- -3 error when allocating memory buffer.

Examples:

test& = cFileLineCount("c:\autoexec.bat")

On my system:

test& = 31

See also: File, FileLineCount2

FileToLower, FileToUpper

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileToLower convert a file to a file with lower case. FileToUpper convert a file to a file with upper case.

Declare Syntax:

Declare Function cFileToLower Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String) As Long Declare Function cFileToUpper Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String) As Long

Call Syntax:

```
test& = cFileToLower(file1, file2)
test& = cFileToUpper(file1, file2)
```

Where:

file1\$ is the source file.
file2\$ is the destination file.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The returned value can be negative and have the following value:

-32720 the number of chars in a block for writing differs from the number of chars for reading.

-32730 reading error for file 1.

-32740 writing error for file 2.

-32750 opening error for file 1.

-32751 opening error for file 2.

-32760 allocation error for memory buffer 1.

-32761 allocation error for memory buffer 2.

Examples:

```
test& = cFileToLower("c:\autoexec.bat","c:\autoexec.lwr")
test& = cFileToUpper("c:\autoexec.bat","c:\autoexec.upr")
```

FileMerge, FileMergeExt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileMerge merge two files in one.
FileMergeExt merge all files in an array in one.

Declare Syntax:

Declare Function cFileMerge Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String, ByVal fileTo As String) As I ong

Declare Function cFileMergeExt Lib "time2win.dll" (FileArray() As String, ByVal TargetFile As String) As Long

Call Syntax:

```
test& = cFileMerge(file1, file2, fileTo)
test& = cFileMergeExt(FileArray(), TargetFile)
```

Where:

file1\$ is the first file.
file2\$ is the second file.
FileArray\$() is the file array.
fileTo\$, TargetFile\$ is the destination file.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured, (for FileMergeExt, see <u>success/error</u> code).

Comments:

For FileMerge, The returned value can be negative and have the following value :

```
-32720 the number of chars in a block for writing differs from the number of chars for reading file 1.
```

-32721 the number of chars in a block for writing differs from the number of chars for reading file 2.

-32730 reading error for file 1.

-32731 reading error for file 2.

-32740 writing error for file To. -32750 opening error for file 1.

-32751 opening error for file 2.

-32752 opening error for file To.

-32760 allocation error for memory buffer.

Examples:

```
Dim i As Long
ReDim FileArray(1 To 7) As String

For i = 1 To 7
    FileArray(i) = Space$(256)
Next i

Debug.Print cFilesInDirToArray("C:\*.*", A_ALL, FileArray())

For i = 1 To 7
    FileArray(i) = "c:\" & FileArray(i)
Next i

test& = cFileMergeExt(FileArray(), "c:\mergeext.byt")

test& = cFileMerge("c:\autoexec.bat", "c:\config.sys", "c:\merge.byt")
```

FileSearchAndReplace

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

FileSearchAndReplace search and replace a string by an another in the specified TEXT file.

Declare Syntax:

Declare Function cFileSearchAndReplace Lib "time2win.dll" (ByVal nFileName As String, ByVal Search As String, ByVal Replace As String, ByVal Sensitivity As Integer) As Long

Call Syntax:

test& = cFileSearchAndReplace(nFilename\$, Search\$, Replace\$, nFileTemp\$, Sensitivity%)

Where:

nFilename\$ the ASCII file.

Search\$ the string to be searched.
Replace\$ the replacement string.
nFileTemp\$ a temporary file.

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

cFileSearchAndReplace can handle lines with a maximum of 4096 chars.

If the nFilename string is an EMPTY string, the returned value is FALSE. If the search string is an EMPTY string, the returned value is FALSE.

The length of the replace string can be > or < of the search string.

The replace string can be an EMPTY string. In this case, the search string is removed from the file.

If the nFileTemp is an EMPTY string, a default temporary file is used.

The returned value can be negative and have the following value:

-32730 reading error for file 1. -32740 writing error for file 2. -32750 opening error for file 1. -32751 opening error for file 2.

Examples:

```
test& = cFileCopy("c:\autoexec.bat","c:autoexec.tab")
```

test& = cFileSearchAndReplace("c:\autoexec.tab", "path", " PATH ", "", False)

FileSearch, FileSearchCount

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileSearch search a string in a given TEXT file.

FileSearchCount count.the occurence of a string in a given TEXT file.

Declare Syntax:

Declare Function cFileSearch Lib "time2win.dll" (ByVal nFileName As String, ByVal Search As String, ByVal sensitivity As Integer) As Long

Declare Function cFileSearchCount Lib "time2win.dll" (ByVal nFileName As String, ByVal Search As String, ByVal sensitivity As Integer) As Long

Call Syntax:

test& = cFileSearch(nFilename\$, Search\$, Sensitivity%) test& = cFileSearchCount(nFilename\$, Search\$, Sensitivity%)

Where:

nFilename\$ the ASCII file.

Search\$ the string to be searched.

Sensitivity% TRUE if the search must be case-sensitive, FALSE if the search is case-insensitive.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

cFileSearch and cFileSearchCount can handle lines with a maximum of 2304 chars.

For cFileSearch, the returned value is TRUE if the string is found and FALSE if not. For cFileSearchCount, the returned value is the number of occurence of the specified string.

If the nFilename string is an EMPTY string, the returned value is FALSE. If the search string is an EMPTY string, the returned value is FALSE.

The returned value can be negative and have the following value:

```
-32730 reading error for file 1.
-32750 opening error for file 1.
```

Examples:

```
test1& = cFileSearch("c:\autoexec.bat", "rEm", False)
test2& = cFileSearchCount("c:\autoexec.bat", "ReM", False)
```

On my system:

test1& = 3test2& = 3

FileSort

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileSort sort an ASCII file or a BINARY file in ascending or descending order with case sensitive or not.

Declare Syntax:

Declare Function cFileSort Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, ByVal SortMethod As Integer, ByVal RecordLength As Long, ByVal KeyOffset As Long, ByVal KeyLength As Long, rRecords As Integer) As Long

Call Syntax:

Test% = cFileSort(FileIn\$, FileOut\$, SortMethod%, RecordLength&, KeyOffset&, KeyLength&, rRecords%)

Where:

FileIn\$ the input file.
FileOut\$ the output file.

SortMethod% a combination of sorting constants :

RecordLength& -1 for an ASCII file, > 0 for a BINARY file.

KeyOffset& -1 for an ASCII file,

>= 0 for a BINARY file.

KeyLength& -1 for an ASCII file,

> 0 for a BINARY file.

rRecords the number of records treated.

Test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The returned value can be negative and have the following value :

- -1 file 1 is invalid (empty name).
- -2 file 2 is invalid (empty name).
- -3 KeyOffset must be specified (RecordLength is used).
- -4 KeyOffset must be >= 0 (RecordLength is used).
- -5 KeyLength must be > 0 (RecordLength is used).
- -6 (KeyOffset + KeyLength) must be <= to RecordLength.
- -7 filename 1 must be different of filename 2.
- -8 unable to open file 1.
- -9 unable to open file 2.
- -10 can't allocate memory buffer for no fixed length
- -11 can't allocate memory buffer for pointers.
- -12 can't read first record.
- -13 can't read a record.
- -14 too many records (about > 16384).
- -15 can't expand memory buffer for pointers.
- -16 can't write a record (disk full, disk failure, ...).

FileSort uses memory to perform the sort. You're limited to the memory available and a maximum of about 16384 records.

Examples:

Dim rRec As Integer

 $\label{lem:cont} Debug. Print cFileSort ("c:\autoexec.bat", "c:\ae1.bat", SORT_ASCENDING + SORT_CASE_INSENSITIVE, -1, -1, -1, rRec)$

FileChangeChars

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileChangeChars replace all chars in a char set by a new char set.

Declare Syntax:

Declare Function cFileChangeChars Lib "time2win.dll" (ByVal nFileName As String, CharSet As String, NewCharSet As String, ByVal nFileTemp As String) As Long

Call Syntax:

test& = cFileChangeChars(nFilename\$, CharSet\$, NewCharSet\$, nFileTemp\$)

Where:

nFilename\$ the ASCII file.

CharSet\$ the string to be searched.
NewCharSet\$ the replacement string.
nFileTemp\$ a temporary file.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

If the nFilename string is an EMPTY string, the returned value is FALSE. If the char set string is an EMPTY string, the returned value is FALSE. If the new char set string is an EMPTY string, the returned value is FALSE.

If the length of char set is different of the length of new char set, the minimum length is used.

If the nFileTemp is an EMPTY string, a default temporary file is used.

The returned value can be negative and have the following value :

-32730 reading error for file 1. -32740 writing error for file 2. -32750 opening error for file 1. -32751 opening error for file 2.

Examples:

```
test& = cFileCopy("c:\autoexec.bat", "c:autoexec.tab")
```

test& = cFileChangeChars("c:\autoexec.tab", "path", " PATH ", "", False)

KillDir, KillDirs

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

KillDir delete the specified empty directory.
KillDirs delete the specified directory and its associated directories.

Declare Syntax:

Declare Function cKillDir Lib "time2win.dll" (ByVal lpDir As String) As Integer Declare Function cKillDirs Lib "time2win.dll" (ByVal lpDir As String, ByVal HeaderDirectory As Integer) As Integer

Call Syntax:

test% = cKillDir(lpDir\$)
test% = cKillDirs(lpDir\$, HeaderDirectory%)

Where:

IpDir\$ is the directory to proceed

HeaderDirectory% specify if IpDir\$ must be delete also

test% see below

Comments:

For KillDir:

The directory must be empty, and it must not be the current working directory or the root directory. The returned value is TRUE if all is OK, <> TRUE if an error has occured.

For KillDirs (only in TIME2WIN or T2WIN-16):

Don't forget that this function can handle a maximum of 700 directories of 70 chars long each.

The returned value can be negative:

-32760 allocation error for memory buffer.

For KillDirs (only in T2WIN-32):

The returned value can be:

>= 0 if all is OK (the returned value is the number of dirs killed),

< 0 if an error has occured (the returned value is the number of dirs that haven't been killed).

This function doesn't generates an VB Error if the speficied dir not exists.

Examples:

Dim Path As String

Path = "c:\this" 'initialize the directory

Debug.Print cMakeDir(Path) ' create the directory Debug.Print cKillDir(Path) ' remove the directory

Path = "c:\this1\this2\this3\this4" 'initialize the directories

Debug.Print cMakeMultipleDir(Path)' create the directories Debug.Print cKillDirs(Path, True) ' remove the sub-directories and the header

Debug.Print cMakeMultipleDir(Path)' recreate the directories
Debug.Print cKillDirs(Path, False) ' remove the sub-directories only

KillDirFilesAll

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

KillDirFilesAll delete all files specified by a mask in the specified directory and its associated sub-dir.

Declare Syntax:

Declare Function cKillDirFilesAll Lib "time2win.dll" (ByVal IpDir As String, ByVal IpMask As String) As Integer

Call Syntax:

test% = cKillDirFilesAll(lpDir\$, lpMask\$)

Where:

IpDi\$r is the starting directory IpMask\$ is the file mask to use

test% >= 0 if all is OK. The returned value specified the total files deleted,

< 0 if an error has occured

Comments:

Don't forget that this function can handle a maximum of 700 directories of 70 chars long each.

This function doesn't generates an VB Error if the speficied dir not exists.

The returned value can be negative:

-32760 allocation error for memory buffer.

KillFile, KillFileAll

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

KillFile delete the specified filename.

KillFileAll delete the specified filename with any attribute.

Declare Syntax:

Declare Function cKillFile Lib "time2win.dll" (ByVal IpFilename As String) As Integer Declare Function cKillFileAll Lib "time2win.dll" (ByVal IpFilename As String) As Integer

Call Syntax:

test% = cKillFile(lpFilename) test% = cKillFileAll(lpFilename)

Where:

lpFileName the filename to proceed

test% TRUE if all is OK

<> TRUE if an error has occured

Comments:

If the file is a combination of READ-ONLY or SYSTEM or HIDDEN attribute, you must use cKillFileAll to remove it.

If the file is an opened file, the returned value is always <> TRUE.

If the file not exist, the returned value is always = TRUE.

This function doesn't generates an VB Error if the speficied file not exists.

See also : $\underline{\mathsf{File}}$

KillFiles, KillFilesAll

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

KillFiles delete all files specified by a file mask.

KillFilesAll delete all files specified by a file mask even if some files are READ-ONLY files.

Declare Syntax:

Declare Function cKillFiles Lib "time2win.dll" (ByVal IpFilename As String) As Integer Declare Function cKillFilesAll Lib "time2win.dll" (ByVal IpFilename As String) As Integer

Call Syntax:

test% = cKillFiles(lpFilename) test% = cKillFilesAll(lpFilename)

Where:

lpFilename the mask file to proceed

test% > 0 if all is OK. The returned value specified the total files deleted.

= 0 if an error has occured

Comments:

If some files are a combination of READ-ONLY or SYSTEM or HIDDEN attributes, you must use cKillFilesAll to remove it.

If the mask is invalid or if the file not exists or if an error occurs when accessing the files, the return value is 0. This function doesn't generates an VB Error if the speficied files not exists.

MakeDir, MakeMultipleDir

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MakeDir create the specified directory.

MakeMultipleDir create a multiple directory in one call.

Declare Syntax:

Declare Function cMakeDir Lib "time2win.dll" (ByVal IpFilename As String) As Integer Declare Function cMakeMultipleDir Lib "time2win.dll" (ByVal IpFilename As String) As Integer

Call Syntax:

test% = cMakeDir(lpFilename) test% = cMakeMultipleDir(lpFilename)

Where:

lpFilename the path for the new directory

test% TRUE if all is OK

<> TRUE if an error has occured

Comments:

The MakeDir function creates a new directory with the specified dirname. Only one directory can be created at a time, so only the last

component of dirname can name a new directory.

The MakeDir function does not do any translation of path delimiters. All operating systems accept either " or "/ " internally as valid delimiters within paths.

This fonction is the same that MkDir but doesn't generate an VB Error if a problem occurs.

The MakeMultipleDir function creates a new multiple directory with the specified dirname. MakeMultipleDir doesn't return an error if a sub-directory in the multiple directory is already present. The only final test is the existence of the full multiple directory when it was been created.

Examples:

test% = cMakeDir("C:\")
test% = cMakeDir("C:\~~TEST~~")

' 13 (<> TRUE => an error has occured)

'TRUE (no error, the directory has been created)

test% = cMakeMultipleDir("C:\~~TEST~~\TEST\TMP")
created)

'TRUE (no error, the directory has been

GetDiskFree, GetDiskSpace, GetDiskUsed, GetDiskClusterSize

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetDiskFree retrieve the free disk space of a disk (hard disk or floppy disk).

GetDiskSpace retrieve the size of a disk (hard disk or floppy disk).

GetDiskUsed retrieve the part used of a disk (hard disk or floppy disk).

GetDiskClusterSize retrieve the size of a cluster on a disk (hard disk or floppy disk).

Declare Syntax:

Declare Function cGetDiskFree Lib "time2win.dll" (ByVal lpDrive As String) As Double Declare Function cGetDiskSpace Lib "time2win.dll" (ByVal lpDrive As String) As Double Declare Function cGetDiskUsed Lib "time2win.dll" (ByVal lpDrive As String) As Double Declare Function cGetDiskClusterSize Lib "time2win.dll" (ByVal lpDrive As String) As Double

Call Syntax:

test# = cGetDiskFree(lpDrive)
test# = cGetDiskSpace(lpDrive)
test# = cGetDiskUsed(lpDrive)
test# = cGetDiskClusterSize(lpDrive)

Where:

lpDrive is the letter for the disk

test# is the result.

Comments:

If the disk is not present or if the disk is not available or if an error occurs when accessing the disk, the returned value is always -1.

This function works with local disk (hard, floppy or cd-rom) als well on remote disk (network).

For TIME TO WIN 32-Bit: This function checks if the system uses Win95 OSR2 or not.

Examples:

Dim diskFree
Dim diskSpace
Dim diskUsed
Dim clusterSize
Dim diskUsed
As Double
As Double

 diskFree = cGetDiskFree("C")
 ' 268197888

 diskSpace = cGetDiskSpace("C")
 ' 527654912

 diskUsed = cGetDiskUsed("C")
 ' 259457024

 clusterSize = cGetDiskClusterSize("C")
 ' 8192

RcsCountFileDir

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RcsCountFileDir count the total directories or files in a specified directory (with recursivity or not).

Declare Syntax:

Declare Function cRcsCountFileDir Lib "time2win.dll" (ByVal FileOrDir As Integer, ByVal FirstFileOrDir As String, ByVal MaskDir As String, ByVal Recurse As Integer) As Long

Call Syntax:

test& = cRcsCountFileDir(FileOrDir%, FirstFileOrDir\$, MaskDir\$, Recurse%)

Where:

FileOrDir% FALSE for directories

TRUE for files

FirstFileOrDir\$ the starting directory (root or sub-dir) or file

MaskDir\$ the mask for performing the search (If this is an empty string, "*.*" is used)

Recurse% FALSE for no recursivity

TRUE for recursivity

test& the number of sub-dirs or files founden in the specified directory

Comments:

This function is a superset function of cCountDirectories and cCountFiles

For directory:

The internal '.' and '..' in each directory is not counted. The root directory is not counted.

For file:

The mask is the standard search mask (*, ?, letters, ciphers).

RcsFilesSize, RcsFilesSizeOnDisk, RcsFilesSlack

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

RcsFilesSize return the logical size of files by file mask in a specified directory (with recursivity or not).
RcsFilesSizeOnDisk return the physical size of files by file mask in a specified directory (with recursivity or not).
RcsFilesSlack return in one call, the slack from files by file mask in a specified directory (with recursivity or not), the logical size and the physical size.

Declare Syntax:

Declare Function cRcsFilesSize Lib "time2win.dll" (ByVal FirstDir As String, ByVal MaskDir As String, ByVal Recurse As Integer) As Double

Declare Function cRcsFilesSizeOnDisk Lib "time2win.dll" (ByVal FirstDir As String, ByVal MaskDir As String, ByVal Recurse As Integer) As Double

Declare Function cRcsFilesSlack Lib "time2win.dll" (ByVal FirstDir As String, ByVal MaskDir As String, ByVal Recurse As Integer, Size1 As Double, Size2 As Double) As Integer

Call Syntax:

```
test# = cRcsFilesSize(FirstDir$, MaskDir$, Recurse%)
test# = cRcsFilesSizeOnDisk(FirstDir$, MaskDir$, Recurse%)
test% = cRcsFilesSlack(FirstDir$, MaskDir$, Recurse%, Size1, Size2)
```

Where:

FirstDir\$ the starting directory (root or sub-dir).

MaskDir\$ the mask for performing the search (If this is an empty string, "*.*" is used)

Recurse% FALSE for no recursivity

TRUE for recursivity

test# is the size of all files founden with the file mask.
test% is the slack for all files fouden with the file mask.
Size1 is the logical size of all files fouden with the file mask.
Size2 is the physical size of all files fouden with the file mask.

Comments:

If the mask is invalid or if the file not exists or if an error occurs when accessing the file, the return value is 0. The slack of a file or files by file mask is the % of all spaces not used on all last clusters.

Examples:

Dim Size As Double Dim Slack As Integer

```
Size = cRcsFilesSize("C:\", "*.*", True) ' on my system, 437,896,805 bytes Size = cRcsFilesSize("C:\", "*.*", False) ' on my system, 87,141,863 bytes
```

Size = cRcsFilesSizeOnDisk("C:\", "*.*", True) ' on my system, 487,784,448 bytes Size = cRcsFilesSizeOnDisk("C:\", "*.*", False) ' on my system, 87,343,104 bytes

 $Slack = cRcsFilesSlack("C:\", "*.*", True, 0, 0) \\ Slack = cRcsFilesSlack("C:\", "*.*", False, 0, 0) \\ 'on my system, 10 % \\ 'on my system, 0%$

FilesSizeOnDisk, FilesSlack

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FilesSize return the logical size of all files specified by file mask.

FilesSizeOnDisk return the physical size of all files specified by file mask.

FilesSlack return in one call, the slack from all files specified by file mask, the logical size and the physical size.

Declare Syntax:

Declare Function cFilesSize Lib "time2win.dll" (ByVal IpFilename As String) As Double Declare Function cFilesSizeOnDisk Lib "time2win.dll" (ByVal nFileName As String) As Double Declare Function cFilesSlack Lib "time2win.dll" (ByVal nFileName As String, Size1 As Double, Size2 As Double) As Integer

Call Syntax:

test# = cFilesSize(nFilename) test# = cFilesSizeOnDisk(nFilename) test% = cFilesSlack(nFilename, Size1, Size2)

Where:

nFilename is the mask file to proceed.

test# is the size of all files founden with the file mask.
test% is the slack for all files fouden with the file mask.
Size1 is the logical size of all files fouden with the file mask.
Size2 is the physical size of all files fouden with the file mask.

Comments:

If the mask is invalid or if the file not exists or if an error occurs when accessing the file, the return value is 0 The slack of a file or files by file mask is the % of all spaces not used on all last clusters.

Examples:

Dim Size As Double Dim Slack As Integer

Size = cFilesSize("*.*") ' on my system, 5607689 bytes Size = cFilesSizeOnDisk("*.*") ' on my system, 5890048 bytes

Slack = cFilesSlack("*.*", 0, 0) on my system, 4 %

RUBYencrypt, RUBYdecrypt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

RUBYencrypt encode a string with a password using the RUBY algorithm (7 modes). RUBY decoyet decode a string with a password using the RUBY algorithm (7 modes).

Declare Syntax:

Declare Function cRUBYencrypt Lib "time2win.dll" (Text As String, Key As String, ByVal Mode As Integer) As String Declare Function cRUBYdecrypt Lib "time2win.dll" (Text As String, Key As String, ByVal Mode As Integer) As String

Call Syntax:

testE = cRUBYencrypt(Text, Key) testD = cRUBYdecrypt(Text, Key)

Where:

Text is the string to encrypt/decrypt

Key is the key to use for encryption/decryption Mode Public Const RUBY MODE MINIMUM = 1

' speed is of the essence, security

secondary.

Public Const RUBY_MODE_DESK_LOCK = 2 ' reasonable compromise of speed vs

security.

Public Const RUBY_MODE_DEAD_BOLT = 4 ' default = probably good enough for most

things.

' security is more important than speed.

Public Const RUBY_MODE_PORTABLE_SAFE = 5 'security is more important than Public Const RUBY_MODE_ANCHORED_SAFE = 8 'speed isn't much of a concern.

Public Const RUBY_MODE_BANK_VAULT = 10

your pentium has nothing better to do,

anyway.

Public Const RUBY MODE FORT KNOX = 16

' be cool.

test is the string encrypted/decrypted

Comments:

The Key is case sensitive.

The length of Text can be any size.

The length of Key must be greater or equal to 6 characters.

Examples:

Dim Text As String

Dim Key As String

Dim Enc As String Dim Dec As String

Text = "Under the blue sky, the sun is yellow"

Key = "a new encryption"

Enc = cRUBYencrypt(Text, Key, RUBY MODE DESK LOCK) Dec = cRUBYdecrypt(Enc, Key, RUBY MODE DESK LOCK)

See also: Encryption

CountFiles

 $\textbf{QuickInfo:} \ \ \text{VB 3.0, VB 4.0 (16-Bit), } \ \ \underline{\text{VB 4.0 (32-Bit)}} \ \ | \ \ \text{VB 5.0 | VBA 5.0 \{Win95/WinNT\}, MSOffice 95}$

Purpose:

CountFiles count the total files founded in a specified directory.

Declare Syntax:

Declare Function cCountFiles Lib "time2win.dll" (ByVal IpFilename As String) As Integer

Call Syntax :

test = cCountFiles(lpFilename)

Where:

lpFilename the directory (root or sub-dir).

test the number of files in the specified directory.

Comments:

CountDirectories

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CountDirectories count the total directory in a specified directory.

Declare Syntax:

Declare Function cCountDirectories Lib "time2win.dll" (ByVal lpFilename As String) As Integer

Call Syntax:

test = cCountDirectories(lpFilename)

Where:

lpFilename the directory (root or sub-dir).

test the number of sub-dir founded in the specified directory.

Comments:

TruncatePath

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

TruncatePath truncate a long path with filename.

Declare Syntax:

Declare Function cTruncatePath Lib "time2win.dll" (ByVal nFilename As String, ByVal NewLength As Integer) As String

Call Syntax:

Test\$ = cTruncatePath(nFilename, NewLength%)

Where:

nFilename is the path.

NewLength% is the new length of the path.
Test\$ is the returned truncated path.

Comments:

If 'nFilename' is an invalid file, the returned path is always an EMPTY string. If 'NewLength' is below to 25, the returned path is always an EMPTY string. If the length of 'nFilename' is below 25, the 'nFilename' is returned.

Examples:

Dim Tmp As String

Dim Test As String

Dim NewLength As Integer

NewLength = 25

Tmp = "time2win.bas"

Debug.Print cTruncatePath(Tmp, NewLength) 'time2win.bas

Tmp = "windows\system\time2win.bas"

Debug.Print cTruncatePath(Tmp, NewLength) 'windows.....time2win.bas

Tmp = "c:\windows\system\time2win.bas"

Debug.Print cTruncatePath(Tmp, NewLength) 'c:\windows...time2win.bas

Tmp = "c:\windows\system\vb\time2win\time2win.bas"

Debug.Print cTruncatePath(Tmp, NewLength) 'c:\windows...time2win.bas

Tmp = "c:\windows\system\vb\source\time2win\time2win.bas"

Debug.Print cTruncatePath(Tmp, NewLength) 'c:\windows...time2win.bas

SplitPath

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SplitPath break a full path into its four components.

Declare Syntax:

Declare Function cSplitPath Lib "time2win.dll" (ByVal nFilename As String, SPLITPATH As Any) As Integer

Call Syntax:

test% = cSplitPath(nFilename, SPLITPATH)

Where:

nFilename is the name of a file containing the full path to access it.

SPLITPATH is the type'd variable 'tagSPLITPATH' to receive the four components.

test% TRUE if all is OK,

FALSE if an error occurs.

Comments:

If the file is not available or if an error occurs when accessing the file, the returned value is always 0.

The four components are:

nDrive Contain the drive letter followed by a colon (:) if a drive is specified in path.

nDir Contain the path of subdirectories, if any, including the trailing slash.

nName Contain the base filename without any extensions.

nExt Contain the filename extension, if any, including the leading period (.).

The return parameters in SPLITPATH will contain empty strings for any path components not found in path.

Examples:

Dim SPLITPATH As tagSPLITPATH

Call cSplitPath("C:\AUTOEXEC.BAT", SPLITPATH)

On my system:

SPLITPATH.nDrive is "C" SPLITPATH.nDir is "\"

SPLITPATH.nName is "AUTOEXEC" SPLITPATH.nExt is ".BAT"

MakePath

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MakePath create a single path, composed of a drive letter, directory path, filename, and filename extension.

Declare Syntax:

Declare Function cMakePath Lib "time2win.dll" (ByVal nDrive As String, ByVal nDir As String, ByVal nFilename As String, ByVal Ext As String) As String

Call Syntax:

test\$ = cMakePath(nDrive, nDir, nFilename, Ext)

Where:

nDrive

The nDrive argument contains a letter (A, B, etc.) corresponding to the desired drive and an optional trailing colon. MakePath routine will insert the colon automatically in the composite path if it is missing. If drive is a null character or an empty string, no drive letter and colon will appear in the composite path string.

<u>nDir</u>

The nDir argument contains the path of directories, not including the drive designator or the actual filename. The trailing slash is optional, and either forward slashes (\) or backslashes (/) or both may be used in a single dir argument. If a trailing slash (/ or \) is not specified, it will be inserted automatically. If dir is a null character or an empty string, no slash is inserted in the composite path string.

nFilename

The nFilename argument contains the base filename without any extensions. If nFilename is an EMPTY string, no filename is inserted in the composite path string.

<u>Ext</u>

The Ext argument contains the actual filename extension, with or without a leading period (.). MakePath routine will insert the period automatically if it does not appear in ext. If ext is a null character or an empty string, no period is inserted in the composite path string.

Comments:

Examples:

```
test1$ = cMakePath("c","tmp","test","dat")
test2$ = cMakePath("c","\tmp","test","dat")
test3$ = cMakePath("c","tmp","test","")
test4$ = cMakePath("c","","test","dat")
```

On my system:

```
test1$ = "c:tmp\test.dat"
test2$ = "c:\tmp\test.dat"
test3$ = "c:tmp\test"
```

test4\$ = "c:test.dat"

FullPath

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FullPath convert a partial path stored in path to a fully qualified path.

Declare Syntax:

Declare Function cFullPath Lib "time2win.dll" (ByVal nFilename As String) As String

Call Syntax:

test\$ = cFullPath(nFilename)

Where:

nFilename is the partial path.

test\$ is the returned full qualified path.

Comments:

If the file is not available or if an error occurs when accessing the file, the returned path is always an EMPTY string.

Examples:

tmp\$ = cFilesInDirectory(cGetDefaultCurrentDir() + "*.*", True) 'retrieves the first file in the default current directory
test\$ = cFullPath(tmp\$)

On my system:

tmp\$ = "AWARE.BAS"
test\$ = "M:\VB\AWARE.BAS"

RenameFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RenameFile rename a file or moves a file from one path to an other path.

Declare Syntax:

Declare Function cRenameFile Lib "time2win.dll" (ByVal lpFilename1 As String, ByVal lpFilename2 As String) As Integer

Call Syntax:

test% = cRenameFile(lpFilename1, lpFilename2)

Where:

IpFileName1the old filename to renameIpFileName2the new filename to be used

test% TRUE if all is OK

<> TRUE if an error has occured

Comments:

The rename function renames the file or directory specified by lpFilename1 to the name given by lpFilename2. The lpFilename1 must be the

path of an existing file or directory. The lpFilename1 must not be the name of an existing file or directory. The rename function can be used to move a file from one directory to another by giving a different path in the lpFilename2 argument.

However, files cannot be moved from one device to another (for example, from drive A to drive B). Directories can only be renamed, not

moved.

This function doesn't generates an VB Error if the speficied old filename not exists.

Examples:

UniqueFileName

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

UniqueFileName create a unique filename by modifying the given template argument. The template argument must be a string with two chars maximum.

Declare Syntax:

Declare Function cUniqueFileName Lib "time2win.dll" (Txt As String) As String

Call Syntax:

test\$ = cUniqueFileName(Txt)

Where:

Txt the filename pattern. If the size is greater than 2, the default pattern is used.

test\$ the unique filename in the form of the chars specifien in Txt plus one char and five digits.

Comments:

The alphanumeric character is 0 ('0') the first time cUniqueFileName is Called with a given template. In subsequent Calls from the same process with copies of the same template, cUniqueFileName checks to see if previously returned names have been used to create files. If no file exists for a given name, cUniqueFileName returns that name. If files exist for all previously returned names, cUniqueFileName creates a new name by replacing the alphanumeric character in the name with the next available lowercase letter. For example, if the first name returned is t012345 and this name is used to create a file, the next name returned will be ta12345. When creating new names, cUniqueFileName uses, in order, '0' and then the lowercase letters 'a' through 'z'.

Note that the original template is modified by the first Call to cUniqueFileName. If you then Call the cUniqueFileName function again with the same template (i.e., the original one), you will get an error.

The cUniqueFileName function generates unique filenames but does not create or open files. If the filename returned is not created, each subsequent Calls returns the same filename.

If the filename pattern is not specified (by passing an EMPTY string), the default pattern '~~' is used.

Examples:

As String Dim Tmp Tmp = cUniqueFileName("MC") ' "MC040201" Debug.Print Tmp Close #1 Open "c:\" + Tmp For Output Shared As #1 Close #1 Tmp = cUniqueFileName("MC") ' "MCa40201" Debug.Print Tmp Close #1 Open "c:\" + Tmp For Output Shared As #1 Close #1 Tmp = cUniqueFileName("MC") ' "MCb40201" Debug.Print Tmp Close #1 Open "c:\" + Tmp For Output Shared As #1

Close #1

If you don't create the file, the same filename is returned, see below :

See also : $\underline{\text{File}}$

FilesInDirectory

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FilesInDirectory retrieve each file in the specified directory.

Declare Syntax:

Declare Function cFilesInDirectory Lib "time2win.dll" (ByVal nFilename As String, ByVal firstnext As Integer) As String

Call Syntax:

test\$ = cFilesInDirectory(nFilename, firstnext)

Where:

nFilename the directory to proceed with the file mask (*.* for all)

firstnext TRUE for the first file FALSE for each next file

test\$ the returned file

Comments:

Examples:

```
Dim i
                 As Integer
Dim Tmp
                 As String
Tmp = cFilesInDirectory("c:\*.*", True)
Debug.Print "The first 7 files in C:\ are : "
Do While (Len(Tmp) > 0)
  Debug.Print Tmp
  Tmp = cFilesInDirectory("c:\*.*", False)
  i = i + 1
  If (i \ge 7) Then Exit Do
Loop
On my system:
The first 7 files in C:\ are:
863DATA
WINA20.386
AUTOEXEC.BAT
COMMAND.COM
IMAGE.DAT
BOOTSECT.DOS
ACD.IDX
```

SubDirectory

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SubDirectory retrieve all sub-directories from the specified mask.

Declare Syntax:

Declare Function cSubDirectory Lib "time2win.dll" (ByVal nFilename As String, ByVal firstnext As Integer) As String

Call Syntax:

test\$ = cSubDirectory(nFilename, firstnext)

Where:

nFilename the specified mask

firstnext TRUE to retrieve the first directory

FALSE to retrieve the next directory

test\$ the retrieved directory

Comments:

To retrieve all sub-directory is a directory, you must Call first this function with the firstnext argument on TRUE and set it to FALSE for all next directory

Examples:

Dim Test As String

Test = cSubDirectory("c:*.*", True)

Do Until (Len(Test) = 0)
Debug.Print Test
Test = cSubDirectory("c:*.*", False)
Loop

Directories with "c:*.*" argument are :

DOS TEMP TMP BAD.DIR

See also : $\underline{\text{File}}$

FileSet.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileSetAllAttrib set all attributes of a file.
FileSetArchive set the archive attribute of a file.
FileSetHidden set the hidden attribute of a file.
FileSetReadOnly set the read-only attribute of a file.
FileSetSystem set the system attribute of a file.
FileSetFlag set the specified attributes of a file.
FileSetAttrib set in one call, attributes of a given file.

Declare Syntax:

Declare Function cFileSetAllAttrib Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileSetArchive Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileSetHidden Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileSetReadOnly Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileSetSystem Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileSetFlag Lib "time2win.dll" (ByVal nFilename As String, ByVal nStatus As Integer) As Integer

Declare Function cFileSetAttrib Lib "time2win.dll" (ByVal nFilename As String, nFileAttribute As Any) As Integer

Call Syntax:

```
status = cFileSetAllAttrib(nFilename)
status = cFileSetArchive(nFilename)
status = cFileSetHidden(nFilename)
status = cFileSetReadOnly(nFilename)
status = cFileSetSystem(nFilename)
status = cFileSetFlag(nFilename, nStatus)
test% = cFileSetAttrib(nFilename, nFileAttribute)
```

Where:

nFilename is the filename to change the attributes

nStatus is a combination of <u>attributes</u>

nFileAttribute the type variable 'FileAttributeType' (only for cFileSetAttrib)

status TRUE if all is OK.

FALSE if an error has been detected.

Comments:

Examples:

```
nFilename = "tmp.tmp"

nStatus = A_RDONLY or A_SYSTEM or A_HIDDEN

status = cFileSetAllAttrib(nFilename)

status = cFileSetFlag(nFilename, nStatus)
```

FileReset.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileResetAllAttrib reset all attributes of a file.
FileResetArchive reset the archive attribute of a file.
FileResetHidden reset the hidden attribute of a file.
FileResetReadOnly reset the read-only attribute of a file.
FileResetSystem reset the system attribute of a file.
FileResetFlag reset the specified attributes of a file.

Declare Syntax:

Declare Function cFileResetAllAttrib Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileResetArchive Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileResetHidden Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileResetReadOnly Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileResetSystem Lib "time2win.dll" (ByVal nFilename As String) As Integer Declare Function cFileResetFlag Lib "time2win.dll" (ByVal nFilename As String, ByVal nStatus As Integer) As Integer

Call Syntax:

status = cFileResetAllAttrib(nFilename) status = cFileResetArchive(nFilename) status = cFileResetHidden(nFilename) status = cFileResetReadOnly(nFilename) status = cFileResetSystem(nFilename) status = cFileResetFlag(nFilename, nStatus)

Where:

nFilename is the filename to change the attributes

nStatus is a combination of attributes

status TRUE if all is OK.

FALSE if an error has been detected.

Comments:

Examples:

nFilename = "tmp.tmp" nStatus = A_RDONLY or A_SYSTEM or A_HIDDEN

status = cFileResetAllAttrib(nFilename) status = cFileResetFlag(nFilename, nStatus)

FileDrive QuickInfo: VB 3.0,

 $\textbf{QuickInfo:} \ VB\ 3.0,\ VB\ 4.0\ (16\text{-Bit}),\ \underline{VB\ 4.0\ (32\text{-Bit})\ |\ VB\ 5.0\ |\ VBA\ 5.0\ \{Win95/WinNT\}},\ MSOffice\ 95$

Pur	pose	:
•	P	-

FileDrive extracts the drive on which the file is present.

Declare Syntax:

Declare Function cFileDrive Lib "time2win.dll" (ByVal lpFilename As String) As String

Call Syntax:

test\$ = cFileDrive(lpFilename)

Where:

IpFilename the file to proceed

test\$ EMPTY is the file not exist or an error occurs when accessing the file

DRIVE LETTER for the file

Comments:

Examples:

FilesInDirOnDisk

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FilesInDirOnDisk write all files from a specified directory into a file on disk.

Declare Syntax:

Declare Function cFilesInDirOnDisk Lib "time2win.dll" (ByVal nFile As String, ByVal nFilename As String, ByVal nAttribute As Integer) As Integer

Call Syntax:

test% = cFilesInDirOnDisk(nFile\$, nFilename\$, nAttribute)

Where:

nFile\$ the file on disk

nFilename the directory to proceed with the file mask (if this is an empty string, '*.*' is used)

nAttribute the attribute to search (see Constants and Types declaration)

test% the number of files founded

Comments:

When nAttribute is a positive value, the search is based on an OR test. If one or more attributes of file is founded, the file is taken.

When nAttribute is a negative value, the search is based on an AND test. If all attributes of files are founded, the file is taken.

Examples:

Dim i As Integer

i = cFilesInDirOnDisk("c:\test.tmp", "*.*", A_ALL)

FilesInDirToArray

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FilesInDirToArray read all files from a specified directory into an array.

Declare Syntax:

Declare Function cFilesInDirToArray Lib "time2win.dll" (ByVal nFilename As String, ByVal nAttribute As Integer, array() As Any) As Integer

Call Syntax:

test% = cFilesInDirToArray(nFilename\$, nAttribute%, Array())

Where:

nFilename the directory to proceed with the file mask (if this is an empty string, '*.*' is used)

nAttribute the attribute to search (see Constants and Types declaration)

Array() is the variable array string with one dimension. test% >=0 is the number of file in the specified directory,

< 0 is an error occurs (error n° is the negative value of all DA_x values, see Constants and

Types declaration).

Comments:

When nAttribute is a positive value, the search is based on an OR test. If one or more attributes of file is founded, the file is taken.

When nAttribute is a negative value, the search is based on an AND test. If all attributes of files are founded, the file is taken.

This function can handle only a variable type'd string derived from tagVARSTRING (see below).

Don't forget that if you use the 'ReDim' statement at the procedure level without have declared the array als Global, you must initialize the array before using this function (see below). You must initialize the array with enough space to handle the size of the file This is due to a VB limitation.

Type tagVARSTRING

Contents As String

End Type

Examples:

ReDim AD(-999 To 1000) As tagVARSTRING

For i = -999 To 1000 AD(i).Contents = Space\$(256) Next i

Debug.Print cFilesInDirToArray("c:*.*", A_ALL, AD())

Debug.Print AD(-999).Contents Debug.Print AD(-998).Contents

FileDate.X, FileTime.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileDateCreated retrieve the date when the file has been created.

FileLastDateAccess retrieve the date when the file has been last accessed.

FileLastDateModified retrieve the date when the file has been last modified.

FileTimeCreated retrieve the time when the file has been created.

FileLastTimeAccess retrieve the time when the file has been last accessed.

FileLastTimeModified retrieve the time when the file has been last modified.

Declare Syntax:

Declare Function cFileDateCreated Lib "time2win.dll" (ByVal lpFilename As String) As String Declare Function cFileLastDateAccess Lib "time2win.dll" (ByVal lpFilename As String) As String Declare Function cFileLastDateModified Lib "time2win.dll" (ByVal lpFilename As String) As String Declare Function cFileTimeCreated Lib "time2win.dll" (ByVal lpFilename As String) As String Declare Function cFileLastTimeAccess Lib "time2win.dll" (ByVal lpFilename As String) As String Declare Function cFileLastTimeModified Lib "time2win.dll" (ByVal lpFilename As String) As String

Call Syntax:

test = cFileDateCreated(lpFilename)

test = cFileLastDateAccess(lpFilename)

test = cFileLastDateModified(lpFilename)

test = cFileTimeCreated(lpFilename)

test = cFileLastTimeAccess(lpFilename)

test = cFileLastTimeModifed(lpFilename)

Where:

lpFileName the file to read date and/or time

test HH:MM for time

DD/MM/YYYY for date

Comments:

For TIME2WIN. T2WIN-16:

The created, access, modified time/date are the same because Win 3.xx don't handle the different date/time information.

Examples:

GetDriveType

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetDriveType determine whether a disk drive is removable, fixed, or remote.

Declare Syntax:

Declare Function cGetDriveType Lib "time2win.dll" (ByVal lpDrive As String) As Integer

Call Syntax:

test% = cGetDriveType(IpDrive\$)

Where:

lpDrive\$ is the letter disk to proceed test% is the returned drive type

Comments:

Examples:

On my system:

See also : $\underline{\text{File}}$

FileStatistics

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileStatictics count the lines, words and chars in a specified file.

Declare Syntax:

Declare Function cFileStatistics Lib "time2win.dll" (ByVal nFilename As String, nLines As Long, nWords As Long, nChars As Long) As Long

Call Syntax:

test& = cFileStatictics(nFilename\$, nLines, nWords, nChars)

Where:

nFilename\$ is the file to proceed

nLines& is the returned number of lines nWords& is the returned number of words

nChars& is the returned number of chars

test& > 0 if all is OK (the returned value is the total bytes in the file),

< 0 if an error has occured.

Comments:

If all is ok, the returned value must be equal to nChars.

The returned value can be negative and have the following value:

-32730 reading error for file. -32750 opening error for file.

-32760 allocation error for memory buffer.

Examples:

test& = cFileStatistics("c:\autoexec.bat", nLines&, nWords&, nChars&)

On my system:

nLines& is 90 nWords& is 282 nChars& is 2212 test& is 2212

test& = cFileStatistics("c:\config.sys", nLines&, nWords&, nChars&)

On my system:

nLines& is 15 nWords& is 44 nChars& is 506 test& is 506

FilePathExists

QuickInfo: VB 3.0	VB 4.0 ((16-Bit).	VB 4.0 (32-Bit)	LVB 5.0 L	VBA 5.0 {	Win95/WinNT\	MSOffice 95

Dirkhaa	
Purpose	

FilePathExists verify if the specified file is present.

Declare Syntax:

Declare Function cFilePathExists Lib "time2win.dll" (ByVal lpFilename As String) As Integer

Call Syntax:

test% = cFilePathExists(lpFilename)

Where:

lpFilename the file to proceed test% TRUE is the file exists

<> TRUE if the file not exists or if an error occurs when accessing the file.

Comments:

Examples:

SearchDir, SearchFile, SearchFileAttrib

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SearchDir perform a directory pattern match starting with a specified path.

SearchFile perform a file pattern match starting with a specified path.

SearchFileAttrib perform a file (with attribute) pattern match starting with a specified path.

Declare Syntax:

Declare Function cSearchDir Lib "time2win.dll" (ByVal lpStartPath As String, ByVal lpFileMask As String, ByVal lpFileResult As String) As Long

Declare Function cSearchFile Lib "time2win.dll" (ByVal lpStartPath As String, ByVal lpFileMask As String, ByVal lpFileResult As String) As Long

Declare Function cSearchFileAttrib Lib "time2win.dll" (ByVal lpStartPath As String, ByVal lpFileMask As String, ByVal lpFileResult As String, ByVal iSearchAttribute As Integer) As Long

Call Syntax:

IngResult& = cSearchDir(IpStartPath\$, IpFileMask\$, IpFileResult\$, iSearchAttribute%)
IngResult& = cSearchFile(IpStartPath\$, IpFileMask\$, IpFileResult\$, iSearchAttribute%)

Where:

lpStartPath\$ is the starting path to begin the search.

lpFileMask\$ is the file mask to match.

lpFileResult\$ is the file where the result will be writed. iSearchAttribute% is the file attribute mask (see <u>attributes</u>) lngResult& is the number of dirs/files founded.

Comments:

For the pattern match, see PatternMatch.

The search for directory/file is case-insensitive.

Examples:

Debug.Print cSearchDir("c:\", "time2win.dll", "c:\tmp\test.srd")

111

' contents of the file c:\tmp\test.srd is :

c:\MCR APPS\CSERVE\T2WIN-32

' c:\MCR APPS\REGISTER\T2WIN-32

c:\MCR_APPS\SOURCE_B\T2win-32

c:\MCR_APPS\SOURCE_C\T2WIN-32

Debug.Print cSearchFile("c:\", "t2win-32.dll", "c:\tmp\test.srf")

' 3

' contents of the file c:\tmp\test.srd is :

c:\WIN95\SYSTEM\T2win-32.dll

' c:\MCR APPS\CSERVE\T2WIN-32\T2win-32.dll

c:\MCR_APPS\SOURCE_C\T2WIN-32\Release\T2win-32.dll

Debug.Print cSearchFile("c:\", "t2win-32.dll", "c:\tmp\test.srf", A ARCHIVE)

' 3

' contents of the file c:\tmp\test.srd is :

c:\WIN95\SYSTEM\T2win-32.dll

c:\MCR_APPS\CSERVE\T2WIN-32\T2win-32.dll

' c:\MCR_APPS\SOURCE_C\T2WIN-32\Release\T2win-32.dll

See also : $\underline{\text{File}}$

CmpFile.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CmpFileAttribute compare the attribute of two files.

CmpFileContents compare the contents of two files.

CmpFileSize compare the size of two files.

CmpFileTime compare the date and time of two files.

Declare Syntax:

Declare Function cCmpFileAttribute Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String) As Integer Declare Function cCmpFileContents Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String, ByVal sensitivity As Integer) As Integer

Declare Function cCmpFileSize Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String) As Integer Declare Function cCmpFileTime Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String) As Integer

Call Syntax:

```
test% = cCmpFileAttribute(file1, file2)
```

test% = cCmpFileContents(file1, file2, sensitivity)

test% = cCmpFileSize(file1, file2) test% = cCmpFileTime(file1, file2)

Where:

file1\$ is the first file.
file2\$ is the second file.
sensitivity% TRUE for case sensitive,

FALSE for no case sensitive.

test% -1 if file1 < file2 for the specified function,

0 if file1 = file2 for the specified function, 1 if file1 > file2 for the specified function.

Comments:

When using cCmpFileAttribute, only -1 (attribute are the same) or 0 (attribute are different) or -2 (error) is returned. When using cCmpFileContents

-1 files are the same

0 files are not the same, or file size differs

-32740 reading error for files.-32750 opening error for file 1.-32751 opening error for file 2.

-32760 allocation error for memory buffer 1.

-32761 allocation error for memory buffer 2.

Examples:

test% = cCmpFileAttribute("c:\command.com", "c:\dos\command.com") test% = cCmpFileContents("c:\command.com", "c:\dos\command.com", True)

test% = cCmpFileContents("c:\command.com", "c:\dos\command.com", False)

test% = cCmpFileSize("c:\command.com", "c:\dos\command.com")

test% = cCmpFileTime("c:\command.com", "c:\dos\command.com")

Mail & News: Overview

MNInitialize initializes the Mail & News memory to perform encoding/decoding.

MNShutdown shutdowns the Mail & News memory (cleanup).

MNGetOption retrieves options.

MNSetOption sets options.

MNEncode encodes a file in single-part or multi-part using "UUencode", "Mime-Base64",

"XXencode".

MNLoadInList loads a file to be processed/decoded in the list of files.

MNCountInList counts the number of files in the list of files (not only the file loaded in

MNLoadInList but also all sub-parts on the file like attachement).

MNFirstInList retrieves a pointer to the first file in the list of files.

MNWalkInList walks in the list of files.

MNGetSubjectInList retrieves the subject of a file in the list of files.

MNGetMimeIDInList retrieves the "mime identifier" (if any) of a file in the list of files.

MNGetMimeContentInList retrieves the "mime content-type" (if any) of a file in the list of files.

MNRenameInList renames a file in the list of files.

MNDecodeFromList decodes a file from the list of files using "UUE", "Mime-Base64/PT/QP", "XXE",

"BinHex".

' structure for split path
Type tagSPLITPATH

nDrive As String
nDir As String
nName As String
nExt As String
Find Type nName nExt End Type

Mail & News : List Management

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

MNLoadInList loads a file to be processed/decoded in the list of files.

MNCountInList counts the number of files in the list of files (not only the file loaded in MNLoadInList but also all subparts on the file like attachement).

MNFirstInList retrieves a pointer to the first file in the list of files.

MNWalkInList walks in the list of files.

MNGetSubjectInList retrieves the subject of a file in the list of files.

MNGetMimeIDInList retrieves the "mime identifier" (if any) of a file in the list of files.

MNGetMimeContentInList retrieves the "mime content-type" (if any) of a file in the list of files.

MNRenameInList renames a file in the list of files.

Declare Syntax:

Declare Function cMNLoadInList Lib "time2win.dll" (ByVal FileName As String, ByVal DeleteAfterDecoding As Long) As Long

Declare Function cMNCountInList Lib "time2win.dll" () As Long

Declare Function cMNFirstInList Lib "time2win.dll" (Ptr As Long) As Integer

Declare Function cMNWalkInList Lib "time2win.dll" (ByVal Ptr As Long, FileName As String, TypeOfEncoding As

Integer, FileState As Long, NextPtr As Long) As Integer

Declare Function cMNGetSubjectInList Lib "time2win.dll" (ByVal Ptr As Long) As String Declare Function cMNGetMimeIDInList Lib "time2win.dll" (ByVal Ptr As Long) As String Declare Function cMNGetMimeContentInList Lib "time2win.dll" (ByVal Ptr As Long) As String

Declare Function cMNRenameInList Lib "time2win.dll" (ByVal Ptr As Long, ByVal NewFileName As String) As Integer

Call Syntax:

IResult1& = cMNLoadInList(FileName\$, DeleteAfterDecoding%)

IResult2& = cMNCountInList()

iResult1% = cMNFirstInList(Ptr&)

iResult2% = cMNWalkInList(Ptr&, FileName\$, TypeOfEncoding%, FileState&, NextPtr&)

sResult1\$ = cGetSubjectInList(Ptr&) sResult2\$ = cGetMimeIDInList(Ptr&) sResult3\$ = cGetMimeContentInList(Ptr&)

iResult3% = cMNRenameInList(Ptr&, NewFileName\$)

Where:

FileName\$ is the name of the file to be loaded in the list of files

DeleteAfterDecoding% True if the file must be deleted after decoding

False if the file is not deleted after decoding

Ptr& is a pointer to a file in the list of files
TypeOfEncoding% is the MN ??? ENCODED code

FileState& is an OR'ed combination of MNSTATE_code
NextPtr& is a pointer of the next file in the list of files
NewFileName\$ is the new name of the file pointed by Ptr&

IResult1& < 0 : negative values of the MNRET_ code

>=0 : size of the loaded file

IResutl2& number of files in the current list of files iResutl1% True if there is a file in the current list of files

False if no files

iResult2% True if there is a file in the current list of files

False if no files

sResult1\$, sResult2\$, sResult3\$ the asked information

iResult3% True if the rename is succesfull

False if an error has occured

Comments:

Examples:

```
Debug.Print cMNInitialize()
Debug.Print cMNLoadInList("c:\temp\message.nws", False)
Debug.Print cMNCountInList()
If (cMNFirstInList(Ptr) = True) Then
                   rc% = cMNWalkInList(Ptr, FileName, TypeOfEncoding, FileState, NextPtr)
                   Debug.Print "Filename : "; FileName
                                    TypeOfEncoding: "; TypeOfEncoding
                   Debug.Print "
                                    FileState: "; FileState
Subject: "; cGetSubjectInList(Ptr)
MimeID: "; cGetMimeIDInList(Ptr)
                   Debug.Print "
                   Debug.Print "
                   Debug.Print "
                   Debug.Print "
                                    MimeContent : "; cGetMimeContentInList(Ptr)
                   Ptr = NextPtr
         Loop Until (rc = False)
End If
```

See also: Mail & News

FileGetAttrib

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileGetAttrib set in one call, attributes of a given file.

Declare Syntax:

Declare Function cFileGetAttrib Lib "time2win.dll" (ByVal nFilename As String, nFileAttribute As Any) As Integer

Call Syntax:

status% = cFileGetAttrib(nFilename, nFileAttribute)

Where:

nFilename is the filename to change the attributes nFileAttribute the type'd variable 'FileAttributeType'

status TRUE if all is OK.

FALSE if an error has been detected.

Comments:

Examples:

See also : $\underline{\text{File}}$

 $\label{eq:FileCopy2} \textbf{QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95} \\$

Purpose:

FileCopy2 copy one file to an another file.

Declare Syntax:

Declare Function cFileCopy2 Lib "time2win.dll" (ByVal file1 As String, ByVal file2 As String) As Long

Call Syntax:

test& = cFileCopy2(file1, file2)

Where:

file1\$ is the source file. file2\$ is the destination file. = True : if all is OK, test&

> 0 : if an error has occured.

Comments:

This function use the standard 'CopyFile' function from Win32 SDK. However, this function is not a speedy function.

Examples:

test& = cFileCopy2("c:\autoexec.bat", "c:\autoexec.tab")

See also : $\underline{\text{File}}$

' definition for file attributes

Public Const A_RDONLY = &H1 Public Const A_HIDDEN = &H2 Public Const A_SYSTEM = &H4
Public Const A_SUBDIR = &H10
Public Const A_ARCHIVE = &H20
Public Const A_NORMAL = &H80

Public Const A_COMPRESSED = &H800 Public Const A_NORMAL_ARCHIVE = &HFE Public Const A_ALL = &HFF

- ' Read only file

- ' Hidden file
 ' System file
 ' Subdirectory
 ' Archive file
- ' Normal file No read/write restrictions
- ' Compressed file
- ' Normal, Archive
- ' Normal, Archive, Read-Only, Hidden, System

' definition for drive type
Public Const DRIVE_UNKNOWN = 0
Public Const DRIVE_NO_ROOT_DIR = 1
Public Const DRIVE_REMOVABLE = 2
Public Const DRIVE_FIXED = 3

Public Const DRIVE_REMOTE = 4
Public Const DRIVE_CDROM = 5

Public Const DRIVE_RAMDISK = 6

- ' drive type can't be founded, drive not present or unknow.
 ' drive type can't be founded, drive not present or unknow (Win95).
 ' disk can be removed from the drive.
- ' disk cannot be removed from the drive.
- ' drive is a remote, or network, drive.
- ' drive is a cd-rom.
- ' drive is a ram disk.

' definition for file sort
Public Const SORT_ASCENDING = 1
Public Const SORT_DESCENDING = 2
Public Const SORT_CASE_SENSITIVE = 4
Public Const SORT_CASE_INSENSITIVE = 8

' definition for file uucp Public Const MODE_UUENCODE = 0 Public Const MODE_UUDECODE = 1

FileUUCP

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileUUCP uuencode/uudecode a file with header/footer or not (this is can be usefull for Internet).

Declare Syntax:

Declare Function cFileUUCP Lib "time2win.dll" (ByVal IpFileName1 As String, ByVal IpFileName2 As String, ByVal EncodeDecode As Integer, ByVal HeaderOrNot As Integer) As Long

Call Syntax:

IngResult& = cFileUUCP(IpFileName1\$, IpFileName2\$, EncodeDecode%, HeaderOrNot%)

Where:

lpFileName1\$ is the file to be uuencoded/uudecoded lpFileName2\$ is the file uuencoded/uudecoded

EncodeDecode% is the <u>mode</u> for encoding/decoding

HeaderOrNot% TRUE : add header "begin 644 filename" and footer "end"

FALSE: no header/footer < 0: an error has occured

>= 0 : the size of the file uuencoded/uudecoded

Comments:

IngResult&

Examples:

```
Dim IngResult
                     As Long
                    As String
Dim strResult
Dim strDisplay
                    As String
Dim File1
                    As String
Dim File2
                    As String
Dim File3
                    As String
strResult = ""
strDisplay = ""
File1 = "c:\win95\system.dat"
File2 = "system.uuencoded"
File3 = "system.uudecoded"
strDisplay = strDisplay & "File UUencode " & File1 & " to " & File2 & " is " & cFileUUCP(File1, File2,
MODE_UUENCODE, True) & vbCrLf
strDisplay = strDisplay & "File UUdecode" & File2 & " to " & File3 & " is " & cFileUUCP(File2, File3,
MODE UUDECODE. True) & vbCrLf
strDisplay = strDisplay & "Compare File contents (not sensitive) " & File1 & " with " & File3 & " is " &
IIf(cCmpFileContents(File1, File3, False) = -1, "same", "not same") & vbCrLf & vbCrLf
File1 = "c:\autoexec.bat"
File2 = "autoexec.uuencoded"
File3 = "autoexec.uudecoded"
strDisplay = strDisplay & "File UUencode" & File1 & " to " & File2 & " is " & cFileUUCP(File1, File2,
MODE UUENCODE, True) & vbCrLf
```

strDisplay = strDisplay & "File UUdecode " & File2 & " to " & File3 & " is " & cFileUUCP(File2, File3, MODE_UUDECODE, True) & vbCrLf strDisplay = strDisplay & "Compare File contents (not sensitive) " & File1 & " with " & File3 & " is " & IIf(cCmpFileContents(File1, File3, False) = -1, "same", "not same") & vbCrLf & vbCrLf

Debug.Print strDisplay

See also : $\underline{\mathsf{UUCP}}$

File I/O from C: Overview

Fopen open a file for I/O.
Fclose close an open stream.

Fgetc read a single character from a stream.

Fputc write a single character to a stream.

Fputs write a line of characters to a stream.

Fgets read a line of characters from a stream.

Fread write an arbitrary number of characters to a stream.

read an arbitrary number of characters from a stream.

Fcloseall close all files opened with fopen.

flush buffered I/O to a particular stream to disk.

Filushall
Feof
test for end-of-file on a stream.
Ferror
test for an error on a stream.
Fclearerr
Fseek
move the file pointer to a specified location.
Ftell
get the current position of a file pointer.
Frewind
flush buffered I/O for all open streams to disk.
test for end-of-file on a stream.
reset the error indicator for a stream.
get the current position of a file pointer.
move the file pointer to the beginning of a file.

FProcessAsciiFileread the offset of each line from an ASCII file (CR/LF line terminated) into an array.

FGotoRecord move the file pointer to the beginning of the specified line in an ASCII file (CR/LF line

terminated).

FStdIn returns the stream of the standard input.
FStdOut returns the stream of the standard output.
FStdErr returns the stream of the standard error.

FileIO

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Fopen open a file for I/O.

Fclose close an open stream.

Fgetc read a single character from a stream.

Fputc write a single character to a stream.

Fputs write a line of characters to a stream.

Fgets read a line of characters from a stream.

Fwrite write an arbitrary number of characters to a stream.

Fread read an arbitrary number of characters from a stream.

Fcloseall close all files opened with fopen.

Fflush flush buffered I/O to a particular stream to disk.

Fflushall flush buffered I/O for all open streams to disk.

Feof test for end-of-file on a stream.

Ferror test for an error on a stream.

Fclearerr reset the error indicator for a stream.

Fseek move the file pointer to a specified location.

Ftell get the current position of a file pointer.

Frewind move the file pointer to the beginning of a file.

FProcessAsciiFile read the offset of each line from an ASCII file (CR/LF line terminated) into an array.

FGotoRecord move the file pointer to the beginning of the specified line in an ASCII file (CR/LF line terminated).

FStdIn returns the stream of the standard input.

FStdOut returns the stream of the standard output.

FStdErr returns the stream of the standard error.

Declare Syntax:

Declare Function cFopen Lib "time2win.dll" (ByVal File As String, ByVal Mode As String) As Long Declare Function cFclose Lib "time2win.dll" (ByVal IOstream As Long) As Integer

Declare Function cFgetc Lib "time2win.dll" (ByVal IOstream As Long) As Integer
Declare Function cFputc Lib "time2win.dll" (ByVal Char As Integer, ByVal IOstream As Long) As Integer
Declare Function cFputs Lib "time2win.dll" (ByVal Txt As String, ByVal IOstream As Long) As Integer

Declare Function cFgets Lib "time2win.dll" (Txt As String, ByVal Length As Integer, ByVal IOstream As Long) As

Declare Function cFwrite Lib "time2win.dll" (Txt As String, ByVal IOstream As Long) As Integer

Declare Function cFread Lib "time2win.dll" (Txt As String, ByVal Length As Integer, ByVal IOstream As Long) As

Declare Function cFcloseall Lib "time2win.dll" () As Integer

Declare Function cFflush Lib "time2win.dll" (ByVal IOstream As Long) As Integer

Declare Function cFflushall Lib "time2win.dll" () As Integer

Declare Function cFeof Lib "time2win.dll" (ByVal IOstream As Long) As Integer

Declare Function cFerror Lib "time2win.dll" (ByVal IOstream As Long) As Integer

Declare Sub cFclearerr Lib "time2win.dll" (ByVal IOstream As Long)

Declare Function cFseek Lib "time2win.dll" (ByVal IOstream As Long, ByVal offset As Long, ByVal Origin As Integer) As Integer

Declare Function cFtell Lib "time2win.dll" (ByVal IOstream As Long) As Long

Declare Sub cFrewind Lib "time2win.dll" (ByVal IOstream As Long)

Declare Function cFProcessAsciiFile Lib "time2win.dll" (ByVal IOstream As Long, AsciiOffset() As Long) As Long

Declare Function cFGotoRecord Lib "time2win.dll" (ByVal IOstream As Long, AsciiOffset() As Long, ByVal Record As Long) As Integer

Declare Function cFStdIn Lib "time2win.dll" () As Long

Declare Function cFStdOut Lib "time2win.dll" () As Long

Declare Function cFStdErr Lib "time2win.dll" () As Long

Call Syntax:

see above

Where:

File\$ the name to use for streaming.

Mode\$ the open mode for the file (see comments).

IOstream& the returned stream or the stream to use to perform file management.

Char% the char to write/read in decimal.

Txt\$ the string to write/read. Length% the length to read a string.

Offset& the new seek position in the stream.

Origin% the seeking method (see definition for file I/O in Constants and Types

declaration)

Comments:

Code returned by these routines:

Fopen >= 0 : I/O stream in a long integer.

Fclose = 0 : all is OK,

< 0 : error.

Fgetc >= 0: the char readed,

< 0 : error.

Fputc >= 0: the char writed,

< 0 : error.

Fputs $\Rightarrow 0$: all is OK,

< 0 : error.

Fgets = 0 : all is OK,

< 0 : error.

Fwrite >= 0 : all is OK,

< 0 : error.

Fread $\Rightarrow 0$: all is OK,

< 0 : error.

Fcloseall = 0 : all is OK,

< 0 : error.

Fflush = 0 : all is OK,

< 0 : error.

Fflushall = 0 : all is OK

< 0 : error.

Feof = 0 : not EOF,

= -1 : EOF.

Ferror = 0 : no error,

<>0 : error number.

Fseek = 0 : all is OK,

< 0 : error.

Ftell >= 0 : the pointer position,

< 0 : error.

FProcessAsciiFile > 0 : the number of lines in the ASCII file (CR/LF terminated),

= 0: error : can't allocate memory buffer (each line can't be longer than

16384 characters),

< 0 : error.

FGotoRecord = -1 : all is ok,

> = 0: record is outside of the limits of the array,

< 0

FStdIn, FStdOut, FStdErr

>= 0

: I/O stream in a long integer.

(only available in TIME TO WIN 32-

Bit)

The character string mode specifies the type of access requested for the file, as follows:

Opens for reading. If the file does not exist or cannot be found, the fopen call will fail.

"w" Opens an empty file for writing. If the given file exists, its contents are destroyed.

Opens for writing at the end of the file (appending); creates the file first if it doesn't exist. "a"

"r+" Opens for both reading and writing. (The file must exist.)

"w+" Opens an empty file for both reading and writing. If the given file exists, its contents are destroyed.

"a+" Opens for reading and appending; creates the file first if it doesn't exist.

When a file is opened with the "a" or "a+" access type, all write operations occur at the end of the file. Although the file pointer can be repositioned using cFseek or cFrewind, the file pointer is always moved back to the end of the file before any write operation is carried out. Thus, existing data cannot be overwritten.

When the "r+", "w+", or "a+" access type is specified, both reading and writing are allowed (the file is said to be open for "update"). However, when you switch between reading and writing, there must be an intervening cFflush, cFseek, or cFrewind operation. The current position can be specified for the cFseek operation, if desired. In addition to the values listed above, the following characters can be included in mode to specify the translation mode for newline characters:

"t"

Open in text (translated) mode. In this mode, carriage-return-line-feed (CR-LF) combinations are translated into single line feeds (LF) on input and LF characters are translated to CR-LF combinations on output. Also , CTRL+Z is interpreted as an end-of-file character on input. In files opened for reading or for reading/writing, cFopen checks for a CTRL+Z at the end of the file and removes it, if possible. This is done because using the cFseek and cFtell functions to move within a file that ends with a CTRL+Z may cause cFseek to behave improperly near the end of the file.

"b"

Open in binary (untranslated) mode; the above translations are suppressed.

Examples:

see FileIO.MAK

See also:

HugeStrAdd

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrAdd add a VB string into a Huge String.

Declare Syntax:

Declare Function cHugeStrAdd Lib "time2win.dll" (ByVal hsHandle As Long, hsText As String) As Integer

Call Syntax:

hsReturn% = cHugeStrAdd(hsHandle%, hsText\$)

Where:

hsHandle% is the Handle for all functions for Huge String. hsText\$ is the VB string to add into the Huge String.

hsReturn% TRUE: if all is ok

FALSE: if length of the VB string is 0, or if the VB string can't be fitted into the Huge String.

Comments:

The length of hsText must be between 1 and 64,000 chars.

The position of hsText into the Huge String is depending of the Write Pointer.

If you don't set manually the Write Pointer, the VB String is always appended to previous chars.

Examples:

```
Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsLength As Long
```

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

Else

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

hsReturn = cHugeStrFree(hsHandle)

```
If (hsReturn = TRUE) Then
```

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

See also:

Interest rate

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

AtoF : annuity to future value.

AtoFC : annuity to future value continuous compounding.

AtoP : annuity to present value.

AtoPC : annuity to present value continuous compounding.

FtoA : future value to annuity.

FtoAC : future value to annuity continuous compounding.

FtoP : future value to present value.

FtoPC : future value to present value continuous compounding.

PtoA : present value to annuity.

PtoAC : present value to annuity continuous compounding.

PtoF : present value to future value.

PtoFC : present value to future value continuous compounding.

Declare Syntax:

Declare Function cAtoF Lib "time2win.dll" (ByVal Interest As Double, ByVal N As Integer) As Double Declare Function cAtoFC Lib "time2win.dll" (ByVal Rates As Double, ByVal N As Integer) As Double Declare Function cAtoPC Lib "time2win.dll" (ByVal Interest As Double, ByVal N As Integer) As Double Declare Function cAtoPC Lib "time2win.dll" (ByVal Rates As Double, ByVal N As Integer) As Double Declare Function cFtoA Lib "time2win.dll" (ByVal Interest As Double, ByVal N As Integer) As Double Declare Function cFtoAC Lib "time2win.dll" (ByVal Rates As Double, ByVal N As Integer) As Double Declare Function cFtoPC Lib "time2win.dll" (ByVal Interest As Double, ByVal N As Integer) As Double Declare Function cFtoPC Lib "time2win.dll" (ByVal Rates As Double, ByVal N As Integer) As Double Declare Function cPtoAC Lib "time2win.dll" (ByVal Interest As Double, ByVal N As Integer) As Double Declare Function cPtoAC Lib "time2win.dll" (ByVal Rates As Double, ByVal N As Integer) As Double Declare Function cPtoFC Lib "time2win.dll" (ByVal Rates As Double, ByVal N As Integer) As Double Declare Function cPtoFC Lib "time2win.dll" (ByVal Rates As Double, ByVal N As Integer) As Double Declare Function cPtoFC Lib "time2win.dll" (ByVal Rates As Double, ByVal N As Integer) As Double

Call Syntax:

Where:

In all functions, N is the number of periods.

Interest is the effective interest rate per period. AtoF AtoFC Interest is the nominal interest rate per period. AtoP Interest is effective interest rate per period. AtoPC Interest is the nominal interest rate per period. Interest is the effective interest rate per period. FtoA Interest is the nominal interest rate per period. FtoAC Interest is the effective interest rate per period. FtoP **FtoPC** Interest is the nominal interest rate per period. Interest is the effective interest rate per period. PtoA **PtoAC** Interest is the nominal interest rate per period. **PtoF** Interest is the effective interest rate per period. **PtoFC** Interest is the nominal interest rate per period.

Comments:

If Interest is 0 or N is below or equal to 0, the returned value is -1.

Examples:

See also :

Interest rate: Overview

: annuity to future value.

AtoF AtoFC : annuity to future value continuous compounding.

AtoP : annuity to present value.

AtoPC : annuity to present value continuous compounding.

: future value to annuity. **FtoA**

: future value to annuity continuous compounding. **FtoAC**

: future value to present value. FtoP

FtoPC : future value to present value continuous compounding.

PtoA : present value to annuity.

<u>PtoAC</u>: present value to annuity continuous compounding.

<u>PtoF</u> : present value to future value.

<u>PtoFC</u>: present value to future value continuous compounding.

GetIni

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetIni retrieve an item in a section of an INI file.

Declare Syntax:

Declare Function cGetlni Lib "time2win.dll" (ByVal AppName As String, ByVal szltem As String, ByVal szDefault As String, ByVal InitFile As String) As String

Call Syntax:

test\$ = cGetIni(AppName, szItem, szDefault, InitFile)

Where:

AppName a string that specifies the section containing the entry.

szltem a string containing the entry whose associated string is to be retrieved.

szDefault a string that specifies the default value for the given entry if the entry cannot be found in the

initialization file.

InitFile a filename. If this parameter does not contain a full path, Windows searches for the file in the

Windows directory.

Comments:

The function searches the file for an entry that matches the name specified by the szltem parameter under the section heading specified by the AppName parameter. If the entry is found, its corresponding string is returned. If the entry does not exist, the default character string specified by the szDefault parameter is copied. A string entry in the initialization file must have the following form:

[section] entry=string

Examples:

test\$ = cGetIni("Desktop","IconTitleFaceName","MS Sans Serif","WIN.INI")

See also: Windows

HugeStrAddress

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrAddress return the memory address of a Huge String.

Declare Syntax:

Declare Function cHugeStrAddress Lib "time2win.dll" (ByVal hsHandle As Long) As Long

Call Syntax:

hsAddress& = cHugeStrLength(hsHandle%)

Where:

hsHandle% is the Handle for all functions for Huge String. hsAddress& is the memory address of the Huge String.

Comments:

Examples:

Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsAddress As Long

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsAddress = cHugeStrAddress(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had an address of " & hsAddress

hsReturn = cHugeStrFree(hsHandle)

If (hsReturn = TRUE) Then

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrAppend

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrAppend append a VB string into a Huge String.

Declare Syntax:

Declare Function cHugeStrAppend Lib "time2win.dll" (ByVal hsHandle As Long, hsText As String) As Integer

Call Syntax:

hsReturn% = cHugeStrAppend(hsHandle%, hsText\$)

Where:

hsHandle% is the Handle for all functions for Huge String. hsText\$ is the VB string to append into the Huge String.

hsReturn% TRUE: if all is ok

FALSE: if length of the VB string is 0, or if the VB string can't be fitted into the Huge String.

Comments:

The length of hsText must be between 1 and 64,000 chars.

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

The position of hsText into the Huge String is NOT depending of the Write Pointer. The VB string is appended without regards and whitout change of the Write Pointer.

Examples:

End If

```
Dim hsHandle
                         As Integer
Dim hsSize
                         As Long
Dim hsReturn
                         As Integer
Dim hsLength
                         As Long
hsSize = 512& * 1024
hsHandle = cHugeStrCreate(hsSize)
If (hsHandle <> 0) Then
  MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"
  MsgBox "Huge String of " & hsSize & " bytes can't be created."
End If
hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")
hsReturn = cHugeStrSetWP(hsHandle, 10)
hsReturn = cHugeStrAppend(hsHandle, ", No price change.")
hsLength = cHugeStrLength(hsHandle)
MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength
hsReturn = cHugeStrFree(hsHandle)
If (hsReturn = TRUE) Then
```

HugeStrBlocks

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrBlocks return the number of blocks of 64,000 chars into a Huge String.

Declare Syntax:

Declare Function cHugeStrBlocks Lib "time2win.dll" (ByVal hsHandle As Long) As Long

Call Syntax:

hsBlocks& = cHugeStrBlocks(hsHandle%)

Where:

hsHandle% is the Handle for all functions for Huge String. hsBlocks& is the number of blocks of 64,000 chars.

Comments:

If the size of a Huge String is a multiple of 64.000, the returned blocks will be always the quotient of the division. If the size of a Huge String is not a multiple of 64.000, the returned blocks will be the quotient of the division plus one.

Examples:

```
Dim hsHandle
                         As Integer
Dim hsSize
                         As Long
Dim hsReturn
                         As Integer
Dim hsBlocks
                         As Long
hsSize = 512& * 1024
hsHandle = cHugeStrCreate(hsSize)
If (hsHandle <> 0) Then
  MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"
  MsgBox "Huge String of " & hsSize & " bytes can't be created."
End If
hsReturn = cHugeStrAdd(hsHandle, String$(64000, "A"))
hsReturn = cHugeStrAdd(hsHandle, String$(64000, "B"))
hsReturn = cHugeStrAdd(hsHandle, String$(32000, "C"))
hsBlocks = cHugeStrBlocks(hsHandle)
MsgBox "Huge String (" & hsHandle & ") had " & hsBlocks & " blocks"
hsReturn = cHugeStrFree(hsHandle)
If (hsReturn = TRUE) Then
  MsgBox "Huge String (" & hsHandle & ") has been destroyed."
  MsgBox "Huge String (" & hsHandle & ") can't be destroyed."
End If
```

HugeStrClear

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrClear clear the contents of a Huge String.

Declare Syntax:

Declare Function cHugeStrClear Lib "time2win.dll" (ByVal hsHandle As Long) As Integer

Call Syntax:

hsReturn% = cHugeStrClear(hsHandle%)

Where:

hsHandle% is the Handle for all functions for Huge String.

hsReturn% is the returned code,

TRUE : the Huge String has been cleared. FALSE : the Huge String can't be cleared.

Comments:

Examples:

Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

If (hsHandle <> 0) Then

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrClear(hsHandle)

If (hsReturn = TRUE) Then

MsgBox "Huge String (" & hsHandle & ") has been cleared."

Lise

MsgBox "Huge String (" & hsHandle & ") can't be cleared."

End If

hsReturn = cHugeStrFree(hsHandle)

If (hsReturn = TRUE) Then

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrCreate

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrCreate create and reserve enough memory space for the required Huge String.

Declare Syntax:

Declare Function cHugeStrCreate Lib "time2win.dll" (ByVal hsSize As Long) As Integer

Call Syntax:

hsHandle% = cHugeStrCreate(hsSize&)

Where:

hsSize& is the size for the Huge String (TIME2WIN add 12 bytes for header).

hsHandle% is the Handle for all functions for Huge String.

Comments:

The Handle can be '0' if the Huge String can't be created. In this case, you can't use any functions for Huge String.

Examples:

Dim hsHandle As Integer
Dim hsSize As Long

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

Else

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

HugeStrFree

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrFree free a Huge String created with cHugeStrCreate.

Declare Syntax:

Declare Function cHugeStrFree Lib "time2win.dll" (ByVal hsHandle As Long) As Integer

Call Syntax:

hsReturn% = cHugeStrFree(hsHandle%)

Where:

hsHandle% is a handle returned by the cHugeStrCreate function.

hsReturn% is the returned code,

TRUE : the Huge String has been destroyed. FALSE : the Huge String can't be destroyed.

Comments:

In the case of the Huge String can't be destroyed, the memory will be restablish when 'TIME TO WIN (32-Bit)' will be unloaded.

Examples:

Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

Else

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrFree(hsHandle)

```
If (hsReturn = TRUE) Then
```

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Flse

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrGetNP

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrGetNP return the Next Pointer of a Huge String.

Declare Syntax:

Declare Function cHugeStrGetNP Lib "time2win.dll" (ByVal hsHandle As Long) As Long

Call Syntax:

hsPtr& = cHugeStrGetNP(hsHandle%)

Where:

hsHandle% is the Handle for all functions for Huge String.

hsPtr& is the readed Next Pointer.

Comments:

Examples:

Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsLength As Long

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

If (hsHandle <> 0) Then

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsReturn = cHugeStrSetWP(hsHandle, 9)

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

MsgBox "The contents of the next 11 chars is " & cHugeStrNext(hsHandle, 11)

MsgBox "The Next Pointer is " & cHugeStrGetNP(hsHandle)

hsReturn = cHugeStrFree(hsHandle)

If (hsReturn = TRUE) Then

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrGetWP

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrGetWP return the Write Pointer of a Huge String.

Declare Syntax:

Declare Function cHugeStrGetWP Lib "time2win.dll" (ByVal hsHandle As Long) As Long

Call Syntax:

hsPtr& = cHugeStrGetWP(hsHandle%)

Where:

hsHandle% is the Handle for all functions for Huge String.

hsPtr& is the readed Write Pointer.

Comments:

Examples:

```
Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsLength As Long
```

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

```
hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")
```

hsReturn = cHugeStrSetWP(hsHandle, 9)

hsReturn = cHugeStrAdd(hsHandle, "time to win")

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

MsgBox "The contents of the first block is " & cHugeStrRead(hsHandle, 1)

MsgBox "The Write Pointer is " & cHugeStrGetWP(hsHandle)

hsReturn = cHugeStrFree(hsHandle)

```
If (hsReturn = TRUE) Then
```

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrLength

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrLength return the length of used chars in a Huge String.

Declare Syntax:

Declare Function cHugeStrLength Lib "time2win.dll" (ByVal hsHandle As Long) As Long

Call Syntax:

hsLength% = cHugeStrLength(hsHandle%)

Where:

hsHandle% is the Handle for all functions for Huge String.

hsLength% is the length of used chars.

Comments:

Examples:

Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsLength As Long

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

hsReturn = cHugeStrFree(hsHandle)

If (hsReturn = TRUE) Then

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrMid

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrMid return the X chars from a position from a Huge String.

Declare Syntax:

Declare Function cHugeStrMid Lib "time2win.dll" (ByVal hsHandle As Long, ByVal hsStart As Long, ByVal hsLength As Long) As String

Call Syntax:

hsText\$ = cHugeStrMid(hsHandle%, hsStart&, hsLength&)

Where:

hsHandle% is the Handle for all functions for Huge String. hsStart& is the starting position (1 to Length of the Huge String). hsLength& is the length of the desired string (1 to 64,000).

hsText\$ is the readed string.

Comments:

Examples:

```
Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsLength As Long
```

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

MsgBox "Huge String of " & hsSize & " bytes can't be created." End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

MsgBox "The contents of the 11 chars from the position 9 is " & cHugeStrMid(hsHandle, 9, 11)

hsReturn = cHugeStrFree(hsHandle)

```
If (hsReturn = TRUE) Then
```

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrNext

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrNext return the X next chars from the Next Pointer in a Huge String.

Declare Syntax:

Declare Function cHugeStrNext Lib "time2win.dll" (ByVal hsHandle As Long, ByVal hsNext As Long) As String

Call Syntax:

hsText\$ = cHugeStrNext(hsHandle%, hsNext&)

Where:

hsHandle% is the Handle for all functions for Huge String. hsNext& is the number of next chars to read (1 to 64,000).

hsText\$ is the readed string.

Comments:

Examples:

```
Dim hsHandleAs IntegerDim hsSizeAs LongDim hsReturnAs IntegerDim hsLengthAs Long
```

```
hsSize = 512& * 1024
```

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsReturn = cHugeStrSetWP(hsHandle, 9)

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

MsgBox "The contents of the next 11 chars is " & cHugeStrNext(hsHandle, 11)

hsReturn = cHugeStrFree(hsHandle)

```
If (hsReturn = TRUE) Then
```

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

Object: Overview

<u>DisableCtlRedraw</u> disable the redraw of a object (by Control).

<u>DisableFl</u> disable mouse and keyboard input to the given form (by Object). <u>DisableForm</u> disable mouse and keyboard input to the given form (by hWnd).

<u>DisableRedraw</u> disable the redraw of a object (by hWnd).

<u>EnableCtlRedraw</u> enable the redraw of a object (by Control).

<u>EnableFI</u> enable mouse and keyboard input to the given form (by Object).
<u>EnableForm</u> enable mouse and keyboard input to the given form (by hWnd).

<u>EnableRedraw</u> enable the redraw of a object (by hWnd).

<u>GetCtlCaption</u> return the .Caption property.

GetCtlClass return the class name defined in the properties windows in the design-mode of

VB.

<u>GetCtlContainer</u> return the name of the container did contains the control.

<u>GetCtlDataField</u> return the .DataField property.

<u>GetCtlForm</u> return the name of the form did contains the control.

<u>GetCtlIndex</u> return the .Index property.

<u>GetCtlName</u> return the .Name of the control.

<u>GetCtlNameIndex</u> return the name and the of the control.

GetCtlPropCaption return the position of the .Caption property in the definition table of the control.

GetCtlPropDataField return the position of the .DataField property in the definition table of the control.

GetCtlPropText return the position of the .Text property in the definition table of the control.

GetCtlTag return the .Tag property of the control.

GetCtlTagSized return the full .Tag property of the control.

GetCtlText return the .Text property of the control.

GetHwnd return the .hWnd of the control.

GetObjCaption
GetObjClassName
GetObjContainer
GetObjDataField
GetObjDataSource
GetObjIndex
GetObjName
GetObjName

GetObjParent GetObjTag GetObjText

<u>ObjDisableRedraw</u> disable the redraw of a object (by Object). <u>ObjEnableRedraw</u> enable the redraw of a object (by Object).

ObjectGetBoolean
ObjectGetByte
ObjectGetIndex
ObjectGetInteger
ObjectGetLong

<u>ObjectGetPropertyByName</u> read data in properties (by name) from OCX custom controls. read data in properties (by position) from OCX custom controls.

ObjectGetString
ObjectGetStringW
ObjectGetVariant
ObjectMethod

<u>ObjectMethodByName</u> give the access of method (by name) of OCX custom controls. <u>ObjectMethodByPos</u> give the access of method (by position) of OCX custom controls.

ObjectPutBoolean
ObjectPutByte
ObjectPutInteger
ObjectPutLong

<u>ObjectPutPropertyByName</u> write data in properties (by name) from OCX custom controls. <u>ObjectPutPropertyByPos</u> write data in properties (by position) in OCX custom controls.

ObjectPutString
ObjectPutVariant
PutObjCaption
PutObjDataField

PutObjDataSource PutObjTag

<u>PutObjText</u>

SetCtlCaption SetCtlDataField set the .Caption property of the control. set the .DataField property of the control.

give the Focus to a control.

SetCtlFocus SetCtlPropString set the specified property (founded with cGetCtlPropString function) of the

control.

SetCtlTag set the .Tag property of the control. SetCtlText set the .Text property of the control.

HugeStrOnDisk

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrOnDisk read/write a Huge String from/to a file.

Declare Syntax:

Declare Function cHugeStrOnDisk Lib "time2win.dll" (ByVal hsHandle As Long, ByVal hsFile As String, ByVal hsGetPut As Integer) As Long

Call Syntax:

hsFileLength& = cHugeStrOnDisk(hsHandle%, hsFile\$, hsGetPut%)

Where:

hsHandle% is the Handle for all functions for Huge String.
hsFile\$ is the name of the file to read/write the Huge String.
hsGetPut% PUT_ARRAY_ON_DISK to put the array on disk,
GET_ARRAY_ON_DISK to get the array from disk.

hsFileLength& >=0 is the returned length of the file,

< 0 is an error occurs (error n° is the negative value of all DA_x values, see Constants and Types

declaration).

Comments:

The file length is the size of the Huge String plus the 12 bytes header.

Examples:

Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsLength As Long

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

If (hsHandle <> 0) Then

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

Else

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

MsgBox "The length of the saved file is " & cHugeStrOnDisk(hsHandle, "c:\hugestr.tmp", PUT_ARRAY_ON_DISK)

hsReturn = cHugeStrClear(hsHandle)

MsgBox "The length of the readed file is " & cHugeStrOnDisk(hsHandle, "c:\hugestr.tmp", GET ARRAY ON DISK)

hsReturn = cHugeStrFree(hsHandle)

```
If (hsReturn = TRUE) Then
   MsgBox "Huge String (" & hsHandle & ") has been destroyed."
Else
   MsgBox "Huge String (" & hsHandle & ") can't be destroyed."
End If
```

HugeStrRead

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrRead read a block of 64,000 chars or a part of block in a Huge String.

Declare Syntax:

Declare Function cHugeStrRead Lib "time2win.dll" (ByVal hsHandle As Long, ByVal hsBlock As Long) As String

Call Syntax:

hsText\$ = cHugeStrRead(hsHandle%, hsBlock&)

Where:

hsHandle% is the Handle for all functions for Huge String.

hsBlock& is a block number for reading into Huge String (must be between 1 and cHugeStrBlocks).

hsText\$ is the returned string (maximum 64,000 chars).

Comments:

The length of hsText will be between 0 and 64,000 chars.

Examples:

```
Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsLength As Long
```

```
hsSize = 512& * 1024
```

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

Flse

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

MsgBox "The contents of the first block is " & cHugeStrRead(hsHandle, 1)

hsReturn = cHugeStrFree(hsHandle)

If (hsReturn = TRUE) Then

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrSetNP

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrSetNP set the Next Pointer of a Huge String.

Declare Syntax:

Declare Function cHugeStrSetNP Lib "time2win.dll" (ByVal hsHandle As Long, ByVal hsPtr As Long) As Integer

Call Syntax:

hsReturn% = cHugeStrSetNP(hsHandle%, hsPtr&)

Where:

hsHandle% is the Handle for all functions for Huge String.

hsPtr& is the new Next Pointer. hsReturn% TRUE : if all is ok

FALSE: if hsPtr is <=0 or > Length of the Huge String.

Comments:

Examples:

Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsLength As Long

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

If (hsHandle <> 0) Then

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

Else

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")

hsReturn = cHugeStrSetNP(hsHandle, 9)

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

MsgBox "The contents of the next 11 chars is " & cHugeStrNext(hsHandle, 11)

hsReturn = cHugeStrFree(hsHandle)

If (hsReturn = TRUE) Then

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrSetWP

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrSetWP set the Write Pointer into a Huge String.

Declare Syntax:

Declare Function cHugeStrSetWP Lib "time2win.dll" (ByVal hsHandle As Long, ByVal hsPtr As Long) As Integer

Call Syntax:

hsReturn% = cHugeStrSetWP(hsHandle%, hsPtr&)

Where:

hsHandle% is the Handle for all functions for Huge String.

hsPtr& is the new Write Pointer. hsReturn%

TRUE: if all is ok

FALSE: if hsPtr is <=0 or > Length of the Huge String.

Comments:

Examples:

```
Dim hsHandle
                       As Integer
Dim hsSize
                        As Long
                       As Integer
Dim hsReturn
Dim hsLength
                        As Long
```

```
hsSize = 512& * 1024
```

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")"

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

```
hsReturn = cHugeStrAdd(hsHandle, "This is TIME TO WIN version 4.0")
```

hsReturn = cHugeStrSetWP(hsHandle, 9)

hsReturn = cHugeStrAdd(hsHandle, "time to win")

hsLength = cHugeStrLength(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a length of " & hsLength

MsgBox "The contents of the first block is " & cHugeStrRead(hsHandle, 1)

hsReturn = cHugeStrFree(hsHandle)

```
If (hsReturn = TRUE) Then
```

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

HugeStrSize

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HugeStrSize return the size of a Huge String.

Declare Syntax:

Declare Function cHugeStrSize Lib "time2win.dll" (ByVal hsHandle As Long) As Long

Call Syntax:

hsReadSize& = cHugeStrSize(hsHandle%)

Where:

hsHandle% is a handle returned by the cHugeStrCreate function.

hsReadSize& is the size of the Huge String.

Comments:

The returned size is the size specified in the cHugeStrCreate function.

Examples:

Dim hsHandle As Integer
Dim hsSize As Long
Dim hsReturn As Integer
Dim hsReadSize As Long

hsSize = 512& * 1024

hsHandle = cHugeStrCreate(hsSize)

```
If (hsHandle <> 0) Then
```

MsgBox "Huge String of " & hsSize & " bytes has been created with handle (" & hsHandle & ")" Else

MsgBox "Huge String of " & hsSize & " bytes can't be created."

End If

hsReadSize = cHugeStrSize(hsHandle)

MsgBox "Huge String (" & hsHandle & ") had a size of " & hsReadSize

hsReturn = cHugeStrFree(hsHandle)

If (hsReturn = TRUE) Then

MsgBox "Huge String (" & hsHandle & ") has been destroyed."

Else

MsgBox "Huge String (" & hsHandle & ") can't be destroyed."

End If

Huge string: Overview

The functions/subs usen in the Huge String routines handle Huge String. Huge String is a string from 1 to 16,711,680 chars.

An bigger advantage of Huge String is the speed.

The functions for adding or appending chars in a Huge String is faster than VB equivalent (20 times faster).

The maximum number of Huge String is 8192.

This number is a theorical maximum and is depending of any application loaded in memory.

The following functions/subs are used to handle big sized arrays on disk:

HugeStrAdd add a VB string into a Huge String.

HugeStrAddress return a pointer for the first char of a Huge String.

HugeStrAppend append a VB string into a Huge String.

HugeStrBlocks return the number of block of 64,000 chars from a Huge String.

<u>HugeStrClear</u> clear a Huge String.

HugeStrCreate create a Huge String.

<u>HugeStrFree</u> free a Huge String (destroy it). <u>HugeStrGetNPg</u>et the Next Pointer of a Huge String.

<u>HugeStrGetWP</u> get the Write Pointer of a Huge String. <u>HugeStrLength</u>return the length of data in a Huge String.

<u>HugeStrMid</u> extract a VB sub-string from a Huge String.

HugeStrNext read the next part of a Huge String.

<u>HugeStrOnDisk</u> get/put a Huge String from/to a file on disk.

<u>HugeStrRead</u> read a block of 64,000 chars or minder from a Huge String.

HugeStrSetNP set the Next Pointer of a Huge String.

<u>HugeStrSetWP</u> set the Write Pointer of a Huge String.

<u>HugeStrSize</u> return the full size of a Huge String.

Don't forget that any Huge String must be destroyed before quitting the application. If you not destroy all Huge String that you've created, the memory used will be only released when <u>TIME2WIN.DLL</u> will be unloaded from memory.

SetCtl.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

The functions below applies to a custom control.

SetCtlCaption set the .Caption property of the control.

SetCtlDataField set the .DataField property of the control.

SetCtlFocus give the Focus to a control.

SetCtlPropString set the specified property (founded with cGetCtlPropString function) of the control.

SetCtlTag set the .Tag property of the control.

SetCtlText set the .Text property of the control.

Declare Syntax:

Declare Sub cSetCtlCaption Lib "time2win.dll" (Obj As Object, ByVal Text As String)

Declare Sub cSetCtlDataField Lib "time2win.dll" (Obj As Object, ByVal Text As String)

Declare Sub cSetCtlFocus Lib "time2win.dll" (Obj As Object)

Declare Sub cSetCtlPropString Lib "time2win.dll" (Obj As Object, ByVal PropIndex As Integer, ByVal Text As String)

Declare Sub cSetCtlTag Lib "time2win.dll" (Obj As Object, ByVal Text As String)

Declare Sub cSetCtlText Lib "time2win.dll" (Obj As Object, ByVal Text As String)

Call Syntax:

The purpose and the declare syntax are very explicite.

Where:

Obj the name of the object to proceed

Comments:

The advantage to use these routines is that these routines doesn't generates an error if the property not exists.

Examples:

See also: Object

GetCtl.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

The functions below applies to a custom control.

GetCtlCaption return the .Caption property.

GetCtlClass return the class name defined in the properties windows in the design-mode of VB.

GetCtlContainer return the name of the container did contains the control. The container can be the form or an another control.

GetCtlDataField return the .DataField property.

GetCtlForm return the name of the form did contains the control.

GetCtlIndex return the .Index property. If the control has no index, -1 is returned.

GetCtlName return the .Name of the control.

GetCtlNameIndex return the name and the of the control. The format is Name(x), if no index => Name is used.

GetCtlPropCaption return the position of the .Caption property in the definition table of the control.

GetCtlPropDataField return the position of the .DataField property in the definition table of the control.

GetCtlPropText return the position of the .Text property in the definition table of the control.

GetCtlTag return the .Tag property of the control. The returned string is limited to the first chr\$(0) founded.

GetCtlTagSized return the full .Tag property of the control.

GetCtlText return the .Text property of the control.

GetHwnd return the .hWnd of the control. If the control has no .hWnd, the returned value is 0.

Declare Syntax:

Declare Function cGetCtlCaption Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetCtlClass Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetCtlContainer Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetCtlDataField Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetCtlForm Lib "time2win.dll" (Obj As Object) As String Declare Function cGetCtlIndex Lib "time2win.dll" (Obj As Object) As Integer Declare Function cGetCtlName Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetCtlNameIndex Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetCtlPropCaption Lib "time2win.dll" (Obj As Object) As Integer Declare Function cGetCtlPropDataField Lib "time2win.dll" (Obj As Object) As Integer

Declare Function cGetCtlPropText Lib "time2win.dll" (Obj As Object) As Integer

Declare Function cGetCtlTag Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetCtlTagSized Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetCtlText Lib "time2win.dll" (Obj As Object) As String

Declare Function cGetHwnd Lib "time2win.dll" (Obj As Object) As Integer

Call Syntax:

The purpose and the declare syntax are very explicite.

Where:

Ctl the name of the control to proceed

Comments:

The advantage to use these routines is that these routines doesn't generates an error if the property not exists.

Examples:

See also: Object

ObjectMethod, ObjectGetProperty, ObjectPutProperty

Quickinfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

ObjectMethodByPos give the access of method (by position) of OCX custom controls. ObjectMethodByName give the access of method (by name) of OCX custom controls. ObjectGetPropertyByPos read data in properties (by position) from OCX custom controls. ObjectGetPropertyByName read data in properties (by name) from OCX custom controls. ObjectPutPropertyByPos write data in properties (by position) in OCX custom controls. ObjectPutPropertyByName write data in properties (by name) from OCX custom controls.

Declare Syntax:

Declare Sub cObjectMethodByPos Lib "time2win.dll" (Obj As Object, ByVal Property As Integer, IpPut As Variant) Declare Function cObjectGetPropertyByPos Lib "time2win.dll" (Obj As Object, ByVal Property As Integer) As Variant Declare Sub cObjectPutPropertyByPos Lib "time2win.dll" (Obj As Object, ByVal Property As Integer, IpPut As Variant) Declare Sub cObjectMethodByName Lib "time2win.dll" (Obj As Object, ByVal Property As String, IpPut As Variant) Declare Function cObjectGetPropertyByName Lib "time2win.dll" (Obj As Object, ByVal Property As String) As Variant Declare Sub cObjectPutPropertyByName Lib "time2win.dll" (Obj As Object, ByVal Property As String, IpPut As Variant)

Call Syntax:

Call cObjectMethodByPos(Obj, Property%, varPut) Call cObjectMethodByName(Obj, Property\$, varPut) varGet = cObjectGetPropertyByPos(Obj, Property%) varGet = cObjectGetPropertyByName(Obj, Property\$) Call cObjectPutPropertyByPos(Obj, Property%, varPut) Call cObjectPutPropertyByName(Obj, Property\$, varPut)

Where:

Obi is a valid object (Form, OCX custom control, VBX custom control);

Property% is a constant for accessing the data (see Constants and Types declaration);

Property\$ is a valid property;

varPut is a data in a type variant:

varGet is the returned data in a type variant.

Comments:

For cObjectGetProperty?, if the property don't exist the returned variant is EMPTY

Examples:

Dim varGet As Variant

Call cObjectPutPropertyByPos(Frame1, OBJ CAPTION, "this is a test") varGet = cObjectGetPropertyByPos(Frame1, OBJ CAPTION) '---> this is a test

Call cObjectPutPropertyByName(Frame1, "caption", "this is an another test")

varGet = cObjectGetPropertyByName(Frame1, "caption") '---> this is an another test

Call cObjectMethodByName(List1, "clear", Empty)

ObjectGet.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Declare Function cObjectGetBoolean Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String) As Boolean Declare Function cObjectGetByte Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String) As Byte Declare Function cObjectGetInteger Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String) As Integer Declare Function cObjectGetLong Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String) As Long Declare Function cObjectGetString Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String) As String Declare Function cObjectGetStringW Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String) As String Declare Function cObjectGetVariant Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String) As Variant Declare Function cObjectGetIndex Lib "time2win.dll" (ByVal Obj As Object) As Integer

GetObj.X

Declare Function cGetObjCaption Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjContainer Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjParent Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjTag Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjText Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjDataField Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjDataSource Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjName Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjNameIndex Lib "time2win.dll" (ByVal Obj As Object) As Integer Declare Function cGetObjNameIndex Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjClassName Lib "time2win.dll" (ByVal Obj As Object) As String Declare Function cGetObjClassName Lib "time2win.dll" (ByVal Obj As Object) As String

ObjectPut.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Declare Sub cObjectPutBoolean Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String, ByVal Value As Boolean)

Declare Sub cObjectPutByte Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String, ByVal Value As Byte) Declare Sub cObjectPutInteger Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String, ByVal Value As Integer)

Declare Sub cObjectPutLong Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String, ByVal Value As Long) Declare Sub cObjectPutString Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String, ByVal Value As String)

Declare Sub cObjectPutVariant Lib "time2win.dll" (ByVal Obj As Object, ByVal Property As String, ByVal Value As Variant)

PutObj.X

Declare Sub cPutObjCaption Lib "time2win.dll" (ByVal Obj As Object, ByVal Value As String)
Declare Sub cPutObjDataField Lib "time2win.dll" (ByVal Obj As Object, ByVal Value As String)
Declare Sub cPutObjDataSource Lib "time2win.dll" (ByVal Obj As Object, ByVal Value As String)
Declare Sub cPutObjTag Lib "time2win.dll" (ByVal Obj As Object, ByVal Value As String)
Declare Sub cPutObjText Lib "time2win.dll" (ByVal Obj As Object, ByVal Value As String)

 $\begin{tabular}{ll} Object Method \\ \textbf{QuickInfo}: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95 \\ \end{tabular}$

Declare Sub cObjectMethod Lib "time2win.dll" (ByVal Obj As Object, ByVal Method As String, ByVal Value As Variant)

EnableFI, DisableFI

Purpose:

EnableFI and DisableFI enable or disable mouse and keyboard input to the given form by sending a WM_ENABLE message and displaying an invisible control such a picture or an image.

When input is disabled, the form ignore input such as mouse clicks and key presses.

When input is enabled, the form process all input.

Declare Syntax:

Declare Sub cEnableFI Lib "time2win.dll" (Obj As Object)
Declare Sub cDisableFI Lib "time2win.dll" (Obj As Object)

Call Syntax:

Call cEnableFI(Ctl)
Call cDisableFI(Ctl)

Where:

Ctl the invisible control that you want become visible (cDisableFI) or invisible (cEnableFI).

Comments:

I use this function with a picture control which containes a timer BMP.

If the enabled state of the form is changing, a WM_ENABLE message is sent before this function returns. If a form is already disabled, all its child forms are implicitly disabled, although they are not sent a WM_ENABLE message.

After some experience, I've noted that some custom controls doesn't answers correctly to this function. In fact, all controls can't receive the input when you Call cDisableFI.

Use this with caution.

See also: cEnableForm, cDisableForm

EnableForm, DisableForm

Purpose:

EnableForm and DisableForm enable or disable mouse and keyboard input to the given form by sending a WM_ENABLE message.

When input is disabled, the form ignore input such as mouse click and key press.

When input is enabled, the form process all inputs.

Declare Syntax:

Declare Sub cEnableForm Lib "time2win.dll" (ByVal hWnd As Long) Declare Sub cDisableForm Lib "time2win.dll" (ByVal hWnd As Long)

Call Syntax:

Call cEnableForm(Form.hWnd)
Call cDisableForm(Form.hWnd)

Where:

Form.hWnd the .hWnd of the specified form

Comments:

If the enabled state of the form is changing, a WM_ENABLE message is sent before this function returns. If a form is already disabled, all its child forms are implicitly disabled, although they are not sent a WM_ENABLE message.

Use this with caution.

See also: cEnableFI, cDisableFI

EnableRedraw, DisableRedraw, EnableCtlRedraw, DisableCtlRedraw, ObjEnableRedraw, ObjDisableRedraw

EnableRedraw and DisableRedraw send a WM_SETREDRAW message from a hWnd of a control to allow change in that window to be redrawn or to prevent change in that window from being redrawn.

EnableCtlRedraw and DisableCtlRedraw send a WM_SETREDRAW message to a control to allow change in that window to be redrawn or to prevent change in that window from being redrawn.

Declare Syntax:

Declare Sub cEnableRedraw Lib "time2win.dll" (ByVal hWnd As Long) Declare Sub cDisableRedraw Lib "time2win.dll" (ByVal hWnd As Long)

Declare Sub cEnableCtlRedraw Lib "time2win.dll" (Obj As Object) Declare Sub cDisableCtlRedraw Lib "time2win.dll" (Obj As Object)

Declare Sub cObjEnableRedraw Lib "time2win.dll" (ByVal Obj As Object) Declare Sub cObjDisableRedraw Lib "time2win.dll" (ByVal Obj As Object)

Call Syntax:

Call cEnableRedraw(Ctl.hWnd)
Call cDisableRedraw(Ctl.hWnd)

Call cEnableCtlRedraw(Ctl)
Call cDisableCtlRedraw(Ctl)

Where:

Comments:

The WM_SETREDRAW message can be used to set and clear the redraw flag for a window. This message is very useful for

preventing a list box from being updated when many items are being added to it, and then allowing the list box to be redrawn when all

of the changes have been made to its contents. Using this technique prevents a list box that is currently visible from flashing

constantly as its contents are being updated.

This message sets or clears the redraw flag. If the redraw flag is cleared, the contents of the specified window will not be updated

after each change, and the window will not be repainted until the redraw flag is set. For example, an application that needs to add

several items to a list box can clear the redraw flag, add the items, and then set the redraw flag. Finally, the application can Call the

InvalidateRect function to cause the list box to be repainted.

If the custom control doesn't have a .hWnd (Label control b.e.), you must use the XCtlRedraw routine.

Printer: Overview

EnumPrinterJobs enumerates all pending jobs on a printer.

EnumPrinters1 enumerates all printers (data returned are description, printer name, comment).

<u>EnumPrinters2</u> enumerates all printers (data returned are for remote printers). <u>EnumPrinters5</u> enumerates all printers (data returned are printer name, port name).

GetPrinterCopies gets the number of copies of a printer.

GetPrinterDefaultSource gets the default source of a printer.

GetPrinterOrientation gets the dither type of pictures of a printer.

GetPrinterPaper gets the paper orientation of a printer.

GetPrinterQuality gets the quality for a printer.

PrinterHeight returns the height of the printer in inch.

<u>PrinterOffsetLeft</u> returns the left offset of the printer in inch (begin of the printable area). <u>PrinterOffsetTop</u> returns the top offset of the printer in inch (begin of the printable area).

<u>PrinterWidth</u> returns the height of the printer in inch. <u>SetPrinterCopies</u> sets the number of copies for a printer.

SetPrinterDefault sets the default printer.

SetPrinterDefaultSource
SetPrinterDitherType
SetPrinterOrientation
SetPrinterOrientation
SetPrinterOrientation
SetPrinterOrientation
SetS the default source for a printer.
Sets the dither type of pictures for a printer.
Sets the paper orientation for a printer.

<u>SetPrinterQuality</u> sets the quality for a printer.

Date and time: Overview

AddTime retrieves only the part for hours on one day.

<u>CheckTime</u> verifies if an hour (in minutes) is between two others hours (in minutes).

<u>CurrentTime</u> returns the minutes elapsed since midnight.

<u>DateHourToLong</u> computes a Long from all date-hour parts.

<u>DateToInt</u> computes an Integer from all date parts.

<u>DateToScalar</u> computes a scalar (long) from all date parts.

DayOfWeekcalculates the day of the week.DayOfYearcalculates the day of the year.DaysInMonthreturns the total days in a month.

ExtCurrentTime returns the seconds elapsed since midnight.

HourTo converts a time string to a VARIANT value in minutes (INTEGER or LONG).

IntoBalance converts a VARIANT value (INTEGER or LONG) in a time string.

IntoBalance converts a VARIANT value (INTEGER or LONG) in a time string with leading zero.

IntoDate converts a date value into a date string specified the short date format order in the Control

Panel.

IntoDateFill converts a date value into a date string specified the short date format order in the Control

Panel.

IntoDateNull converts a date value into a date string specified the short date format order in the Control

Panel.

IntoFixHour is super-set for converting a VARIANT (INTEGER or LONG) into a fixed time

string.

<u>IntoHour</u> converts a VARIANT (INTEGER or LONG) into a hour string.

IntoVarHour converts a VARIANT (INTEGER or LONG) into a hour string (variable length following the

value).

 IntToDate
 decomposes an Integer date into these components.

 LongToDateHour
 decomposes a Long date-hour into these components.

 ScalarToDate
 decomposes a scalar date into these components.

 ScalarToTime
 decomposes a scalar time into these components.

<u>TimeBetween</u> calculates the time (in minutes) between two hours (in minutes).

TimeToScalar computes a Int from all time parts.

WeekOfYear calculates the week of the year.

GetVersion

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetVersion return the version number of 'TIME TO WIN'

Declare Syntax:

Declare Function cGetVersion Lib "time2win.dll" () As Single

Call Syntax:

version% = cGetVersion()

Where:

Comments:

This is usefull to avoid version conflict with old version.

Examples:

version% = cGetVersion() '3.00

See also : TIME2WIN

TIME2WIN: Overview

<u>GetVersion</u> return the version number of 'TIME TO WIN'.

GetNetConnection

 $\textbf{QuickInfo:} \ \ VB \ \ 3.0, \ \ VB \ \ 4.0 \ \ (16\text{-Bit}), \ \ \underline{VB} \ \ 4.0 \ \ (32\text{-Bit}) \ \ | \ \ VB \ \ 5.0 \ \ | \ \ VBA \ \ 5.0 \ \ \{Win95/WinNT\}, \ \ \\ \textbf{MSOffice 95}$

Purpose:

GetNetConnection return the name of the network resource associated with the specified redirected local device.

Declare Syntax:

Declare Function cGetNetConnection Lib "time2win.dll" (ByVal lpDrive As String, ErrCode As Integer) As String

Call Syntax:

test\$ = cGetNetConnection(IpDrive, ErrCode)

Where:

IpDrive a string specifying the name of the redirected local device.

ErrCode TRUE is all is ok

<> TRUE if an error has occured

test\$ the returned name of the remote network resource.

Comments:

Examples:

See also: Network

Network: Overview

GetNetConnection local device.

GetNetUser network connection.

<u>GetNetAdapterMacAddress</u>

GetNetAdapterNumber

GetNetNumberOfAdapter

return the name of the network resource associated with the specified redirected

retrieves the current default user name or the user name used to establish a

retrieves the encoded address of the network adapter (MAC address).

retrieves the logical address of a physical LAN adapter.

retrieves the number of LAN adapter (number of network card).

LngInpBox

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

LngInpBox is a fully replacement of the standard function InputBox\$. It supports Multi-Language.

Declare Syntax:

Declare Function cLngInpBox Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal Message As String, ByVal Title As String, ByVal Default As String) As String

Call Syntax:

test\$ = cLngInpBox(nLanguage, Message, Title, Default)

Where:

nLanguage is the language number.

Message is the message to display.

Title is the title of the message box.

Default is the default string to display in the input part.

Test\$ is the returned data in the input part.

Comments:

nLanguage must be a language number defined in Constants and Types declaration. If the language number is not correct, the french language is always returned.

The returned data can be an EMPTY string if the 'Cancel' button is pushed. If the 'OK' button is pushed the contents of the input part is returned.

Examples:

test\$ = cLngInpBox(LNG_FRENCH, "This a new InputBox in French", "TIME TO WIN ", " INPUT BOX IN FRENCH")

See also: Multi language message box - input box

LngBoxMsg, LngMsgBox

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

LngBoxMsg is a fully replacement of the standard sub MsgBox. It supports Multi-Language and add some new parameters.

LngMsgBox is a fully replacement of the standard function MsgBox. It supports Multi-Language and add some new parameters.

Declare Syntax:

Declare Sub cLngBoxMsg Lib "time2win.dll" Alias "cLngMsgBox" (ByVal nLanguage As Integer, ByVal Message As String, ByVal Button As Long, ByVal Title As String)

Declare Function cLngMsgBox Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal Message As String, ByVal Button As Long, ByVal Title As String) As Integer

Call Syntax:

Call cLngBoxMsg(nLanguage, Message, Button, Title) test% = cLngMsgBox(nLanguage, Message, Button, Title)

Where:

nLanguage is the language number. Message is the message to display.

Button specifies the contents and behavior of the message box.

This parameter is a combination of the standard MsgBox parameters

Title is the title of the message box.

test% is the button Id pushed (see VB MsgBox).

Comments:

nLanguage must be a language number defined in Constants and Types declaration. If the language number is not correct, the french language is always returned.

Button adds two new parameters : MB_MESSAGE_CENTER (centering the message), MB_MESSAGE_RIGHT (right-justify the message).

Button adds four mixing timeout : 2, 4, 8, 16 seconds (The timeout can be : 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 seconds).

Button adds display of the message box without buttons : MB_NO_BUTTONS.

If a timeout occurs after no actions from the operator, cLngMsgBox returns the default button.

A timeout occurs even if the system menu of the message box is activated.

The default justification is MB MESSAGE LEFT.

The icons used a little different from the standard message box.

Beware when using TimeOut functionnality in the new message box, use only to display some low warning messages.

Examples:

Call cLngBoxMsg(LNG_FRENCH, "This is new.", MB_ICONSTOP or MB_MESSAGE_CENTER or MB_YESNOCANCEL or MB_TIMEOUT_8, "TIME TO WIN")
test% = cLngMsgBox(LNG_FRENCH, "This is new.", MB_ICONSTOP or MB_MESSAGE_CENTER or MB_YESNOCANCEL or MB_TIMEOUT_12 or MB_DISPLAY_TIMEOUT, "TIME TO WIN")

See also: Multi language message box - input box

Multi language message box - input box : Overview LnglnpBox LngBoxMsg is a fully replacement of the standard function InputBox\$. It supports Multi-Language. is a fully replacement of the standard sub MsgBox. It supports Multi-Language and add some new

parameters.

is a fully replacement of the standard function MsgBox. It supports Multi-Language and add some <u>LngMsgBox</u> new parameters.

ReadCtlLanguage, SaveCtlLanguage

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ReadCtlLanguage read a file which contains the text for supporting a language. SaveCtlLanguage create or update a file which contains the text for supporting a language.

Declare Syntax:

Declare Function cSaveCtlLanguage Lib "time2win.dll" (Obj As Object, ByVal Property As Integer, ByVal FileLanguage As String) As Integer Declare Function cReadCtlLanguage Lib "time2win.dll" (Obj As Object, ByVal Property As Integer, ByVal FileLanguage As String) As Integer

Call Syntax:

test% = cSaveCtlLanguage(Obj, Property, FileLanguage) test% = cReadCtlLanguage(Obj, Property, FileLanguage)

Where:

Obj is any object on the form to use the text language.

Property is an association of constants (RS CAPTION, RS TEXT, RS DATAFIELD,

RS DATASOURCE, RS TAG)

FileLanguage is the file name to perform the language management.

test% TRUE if all is ok

FALSE is an error has occured

Comments:

These functions are very, VERY simple to use and your application can support multi-language very fast.

If a problem occurs when accessing the controls or if the filename is an EMPTY string, the returned value is FALSE. These fonctions doesn't test the validity of the file name.

Ctl can be any control on the form (also Label1).

Property can be RS_CAPTION to use only controls did have a .Caption property.

can be RS TEXT to use only controls did have a .Text property.

can be RS_DATAFIELD to use only controls did have a .DataField property.

can be RS_DATASOURCE to use only controls did have a .DataSource property.

can be RS_TAG to use only controls did have a .Tag property.

can be any 'OR' association of the four following constants :

RS_CAPTION Or RS_TEXT Or RS_DATAFIELD Or RS_DATASOURCE Or RS_TAG

If ypu want to use all properties, you can pass the value 255.

If you use of RS_DATAFIELD and/or RS_DATASOURCE, you don't need to set the .DataField and/or .DataSource in the Properties Window is design mode. This is can be useful and is not memory hungry, and the EXE size of your application is minder.

FileLanguage is the name of the file to use to store or retrieve the Property. After the first saving, you translate the file (with NOTEPAD, b.e.) into an another language and save it to an other name. You can use the extension als follows .T?? with ?? is FR (for FRench), UK (for United Kingdom, GE (for GErmany), IT (for ITaly), SP (for SPain),

Examples:

test% = cSaveCtlLanguage(Command1, RS_CAPTION Or RS_TEXT, "D:\TIME2WIN\DEMO\TIME2WIN.TUK")
' translate it to French and save it in the file "D:\TIME2WIN\DEMO\TIME2WIN.TFR"

 $test\% = cReadCtlLanguage(Command1, RS_CAPTION\ Or\ RS_TEXT,\ "D:\ TIME2WIN\ DEMO\ TIME2WIN\ TFR")$

See also : Language control

Language control : Overview

change all text items in a system menu to one of six available language.

LngSysMenu ReadCtlLanguage read a file which contains the text for supporting a language.

read a generic file (one file per language) which contains the text for supporting a ReadCtlLanguageExt

language.

ReadMnuLanguage read a file which contains the text (menu) for supporting a language. SaveCtlLanguagecreate or update a file which contains the text for supporting a language.

create or update a generic file (one file par language) which contains the text for SaveCtlLanguageExt

supporting a language.

SaveMnuLanguage create or update a file which contains the text (menu) for supporting a language.

LngSysMenu

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, MSOffice 95

Purpose:

LngSysMenu change all text items in a system menu to one of six available language.

Declare Syntax:

Declare Sub cLngSysMenu Lib "time2win.dll" (ByVal nLanguage As Integer, ByVal hWnd As Long)

Call Syntax:

Call cLngSysMenu(nLanguage%, hWnd%)

Where:

nLanguage% is the language number. hWnd% is the .hWnd of the form.

Comments:

This sub only changes the item text not the fonctionnality.

This sub take care of the menu 'grayed'.

nLanguage must be a language number defined in Constants and Types declaration. If the language number is not correct, the french language is always returned.

Examples:

Call cLngSysMenu(LNG_FRENCH, Me.hWnd)

See also: Language control

ReadMnuLanguage, SaveMnuLanguage

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

SaveMnuLanguage create or update a file which contains the text (menu) for supporting a language. ReadMnuLanguage read a file which contains the text (menu) for supporting a language.

Declare Syntax:

Declare Function cReadMnuLanguage Lib "time2win.dll" (hCtlFirstMenu As Control, ByVal FileLanguage As String) As Integer

Declare Function cSaveMnuLanguage Lib "time2win.dll" (hCtlFirstMenu As Control, ByVal FileLanguage As String) As Integer

Call Syntax:

test% = cSaveMnuLanguage(hCtlFirstMenu, FileLanguage) test% = cReadMnuLanguage(hCtlFirstMenu, FileLanguage)

Where:

hCtlFirstMenu is the first menu control on the form.

FileLanguage\$ is the file name to perform the language management.

test% TRUE if all is ok

FALSE is an error has occured

Comments:

These functions are very, VERY simple to use and your application can support multi-language very fast.

If a problem occurs when accessing the menus or if the form has no menu or if the filename is an EMPTY string, the returned value is FALSE. These fonctions doesn't test the validity of the file name.

FileLanguage is the name of the file to use to store or retrieve the Property. After the first saving, you translate the file (with NOTEPAD, b.e.) into an another language and save it to an other name. You can use the extension als follows .T?? with ?? is FR (for FRench), UK (for United Kingdom, GE (for GErmany), IT (for ITaly), SP (for SPain),

Examples:

test% = cSaveMnuLanguage(mnu_File, "D:\TIME2WIN\DEMO\TIME2WIN.TUK")

' translate it to French and save it in the file "D:\TIME2WIN\DEMO\TIME2WIN.TFR"

test% = cReadMnuLanguage(mnu File, "D:\TIME2WIN\DEMO\TIME2WIN.TFR")

See also: Language control

FileToComboBox, FileToListBox

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileToComboBox read a file and append it to a Combo Box. FileToListBox read a file and append it to a List Box.

Declare Syntax:

Declare Function cFileToComboBox Lib "time2win.dll" (ByVal hWnd As Long, ByVal nFile As String) As Integer Declare Function cFileToListBox Lib "time2win.dll" (ByVal hWnd As Long, ByVal nFile As String) As Integer

Call Syntax:

Test% = cFileToComboBox(Combo1.hWnd, nFile\$)
Test% = cFileToListBox(List1.hWnd, nFile\$)

Where:

Combo1.hWnd the .hWnd of a Combo Box.
List1.hWnd the .hWnd of a List Box.
nFile\$ the filename to read.
Test% = True, if all is ok,

<> True, if an error has occured.

Comments:

Examples:

Debug.Print cFileToComboBox(Combo1.hWnd, "c:\tmp\cmb_001.txt") Debug.Print cFileToListBox(List1.hWnd, "c:\tmp\lst 001.txt")

See also: List box - combo box

List box - combo box : Overview

<u>ArrayToComboBox</u> read an string array and append it to a Combo Box. read an string array and append it to a List Box.

<u>ComboFiles</u> fill a Combo Box with files with the specified attribute and mask.

<u>ComboSearchDir</u> perform a directory pattern match starting with a specified path and fill a standard combo box.

<u>ComboSearchFile</u> perform a file pattern match starting with a specified path and fill a standard combo box.

ComboSearchFileAttrib Search for file(s) with attribute and show the result in a standard combo box.

FileToComboBox read a file and append it to a Combo Box.
FileToListBox read a file and append it to a List Box.

ListFiles fill a List Box with files with the specified attribute and mask.

<u>ListSearchDir</u> perform a directory pattern match starting with a specified path and fill a standard list box.

<u>ListSearchFile</u> perform a file pattern match starting with a specified path and fill a standard list box.

<u>ListSearchFileAttrib</u> Search for file(s) with attribute and show the result in a standard list box.

<u>ListSetTabs</u> set tabulation in a List Box.

ArrayToComboBox, ArrayToListBox

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ArrayToComboBox read an string array and append it to a Combo Box. ArrayToListBox read an string array and append it to a List Box.

Declare Syntax:

Declare Function cArrayToComboBox Lib "time2win.dll" (ByVal hWnd As Long, Array() As Any) As Integer Declare Function cArrayToListBox Lib "time2win.dll" (ByVal hWnd As Long, Array() As Any) As Integer

Call Syntax:

Test% = cArrayToComboBox(Combo1.hWnd, Array()) Test% = cArrayToListBox(List1.hWnd, Array())

Where:

Combo1.hWnd the .hWnd of a Combo Box.
List1.hWnd the .hWnd of a List Box.
nFile\$ the filename to read.
Test% = True, if all is ok.

<> True, if an error has occured.

Comments:

This function can handle only a variable type'd string derived from tagVARSTRING (see below).

Don't forget that if you use the 'ReDim' statement at the procedure level without have declared the array als Global, you must initialize the array before using this function (see below). You must initialize the array with enough space to handle the List/Combo boxes This is due to a VB limitation.

This function can handle huge array (greater than 65535 bytes) (see the example below).

Type tagVARSTRING

Contents As String

End Type

Examples:

ReDim AD(-999 To 999) As tagVARSTRING

Dim i As Long
Dim r As Long

For i = -999 To 999

AD(i).Contents = Space\$(256)

Next i

Debug.Print cArrayToListBox(List1.hWnd, AD())

Debug.Print cArrayToComboBox(Combo1.hWnd, AD())

See also: List box - combo box

Media ID - Volume : Overview

<u>DOSGetMediaID</u> DOSGetVolumeLabel DOSSetMedialD **DOSSetVolumeLabel**

read the media ID (serial number, volume label, ...) from a disk. read the volume label of any disk. change the existing media ID (serial number, volume label, ...) from a disk. create/change/delete the volume label of any disk.

DOSGetMediaID, DOSSetMediaID

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DOSGetMedialD read the media ID (serial number, volume label, ...) from a disk. DOSSetMedialD change the existing media ID (serial number, volume label, ...) from a disk.

Declare Syntax:

Declare Function cDOSGetMediaID Lib "time2win.dll" (ByVal nDrive As String, DOSMEDIAID As tagDOSMEDIAID) As Integer

Declare Function cDOSSetMediaID Lib "time2win.dll" (ByVal nDrive As String, DOSMEDIAID As tagDOSMEDIAID) As Integer

Call Syntax:

Test% = cDOSGetMediaID(nDrive\$, DOSMEDIAID) Test% = cDOSSetMediaID(nDrive\$, DOSMEDIAID)

Where:

nDrive\$ is the drive letter.

DOSMEDIAID is the <u>type'd variable</u> to access the drive.

Test% TRUE, all is ok

FALSE, no media ID or an error has ocurred.

Comments:

If nDrive is empty, the default drive is used.

The informations returned by these routines are different from the GetMediaID and SetMediaID.

For T2WIN-32.DLL and T2WOFFIC.DLL:

To decode the 'InfoLevel', you must use cCVI function.

To decode the 'SerialNumber', you must use the cCVL function.

Examples:

Dim DOSMEDIAID As tagMEDIAID

test% = cDOSGetMediaID("A", DOSMEDIAID)

' Drive A: no media id

test% = cDOSGetMediaID("B", DOSMEDIAID)

' Drive B : no media id

test% = cDOSGetMediaID("C", DOSMEDIAID)

' Drive C:

' InfoLevel : '0' (Hex\$(cCVI(DOSMEDIAID.InfoLevel))
' SerialNumber : '43361ECF' (Hex\$(cCVL(DOSMEDIAID.SerialNumber))

' VolLabel : 'UNICORN_7'
' FileSysType : 'FAT16'

See also: Media ID - Volume

' structure for get/set DOS Media ID
Type tagDOSMEDIAID32
InfoLevel As String
SerialNumber As String As String * 2 As String * 4 As String * 11 As String * 8 'use cCVI for integer conversion 'use cCVL for long conversion VolLabel FileSysType End Type

' structure for get/set Media ID Type tagMEDIAID16 InfoLevel As As Integer As Long
As String * 11
As String * 8 SerialNumber VolLabel FileSysType

End Type

' structure for get/set Media ID
Type tagMEDIAID
VolumeName As String
VolumeSerialNumber As Long
SystemName As String
MaxNameLength As Long
FileSystemFlags As Long
End Type

DOSGetVolumeLabel, DOSSetVolumeLabel

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DOSGetVolumeLabel read the volume label of any disk.
DOSSetVolumeLabel create/change/delete the volume label of any disk.

Declare Syntax:

Declare Function cDOSGetVolumeLabel Lib "time2win.dll" (ByVal nDrive As String) As String Declare Function cDOSSetVolumeLabel Lib "time2win.dll" (ByVal nDrive As String, ByVal nVolumeLabel As String) As Integer

Call Syntax:

VolLbl\$ = cDOSGetVolumeLabel(nDrive\$)
Test% = cDOSSetVolumeLabel(nDrive\$, NewVolLbl\$)

Where:

nDrive\$ is the drive to use.

VolLbl\$ is the readed volume label.

NewVolLbl\$ is the new volume label.

Test% = True. if all is ok

<> True. if an error has occured.

Comments:

The length of a volume label can be 11 chars maximum. The description of a volume label must respect the DOS filename convention.

Examples:

Dim VolLbl As String Dim Test As Integer

VolLbl = cDOSGetVolumeLabel("A")

'VolLbl -> "TIME_TO_WIN"

Test = cDOSSetVolumeLabel("A", "NEW_VOLUME")

' Test -> -1 (True)

See also : Media ID - Volume

IntoDate, IntoDateFill, IntoDateNull

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

IntoDate convert a date value into a date string specified the short date format order in the Control Panel. IntoDateFill convert a date value into a date string specified the short date format order in the Control Panel. But if the date is 0, the returned string is 10 spaces according to the maximum chars in the short date format ("dd/mm/yyyy" or "mm/dd/yyyy" or "yyyy/mm/dd").

IntoDateNull convert a date value into a date string specified the short date format order in the Control Panel. But if the date is 0, the returned string is an EMPTY string.

Declare Syntax:

Declare Function cIntoDate Lib "time2win.dll" (ByVal nDate As Long) As String Declare Function cIntoDateFill Lib "time2win.dll" (ByVal nDate As Long) As String Declare Function cIntoDateNull Lib "time2win.dll" (ByVal nDate As Long) As String

Call Syntax:

```
test$ = cIntoDate(nDate)
test$ = cIntoDateFill(nDate)
test$ = cIntoDateNull(nDate)
```

Where:

nDate the date to proceed test\$ the date string returned

Comments:

The date to be proceed is always a LONG.

This fonction take care of the date separator specified in the Control Panel.

Examples:

```
test$ = cIntoDate(Int(Now))
                                             ' "09/12/1994"
                                             ' "09/12/1994"
test$ = cIntoDateFill(Int(Now))
                                             ' "09/12/1994"
test$ = cIntoDateNull(Int(Now))
test$ = cIntoDate(-1)
                                             ' "29/12/1899"
                                             ' "29/12/1899"
test$ = cIntoDateFill(-1)
test$ = cIntoDateNull(-1)
                                             ' "29/12/1899"
test$ = cIntoDate(0)
                                             ' "30/12/1899"
test$ = cIntoDateFill(0)
test$ = cIntoDateNull(0)
test$ = cIntoDate(1)
                                             ' "31/12/1899"
                                             ' "31/12/1899"
test$ = cIntoDateFill(1)
                                             ' "31/12/1899"
test$ = cIntoDateNul(1)
```

DayOfYear

Purpose:

DayOfYear calculate the day of the year.

Declare Syntax:

Declare Function cDayOfYear Lib "time2win.dll" (ByVal nYear As Integer, ByVal nMonth As Integer, ByVal nDay As Integer) As Integer

Call Syntax:

Test% = cDayOfYear(nYear%, nMonth%, nDay%)

Where:

nYear% is the year.
nMonth% is the month.
nDay% is the day.

Test% is the returned day of the year.

Comments:

The returned value is 365 or 366 (for a leap year).

If the parameters are incorrect, the returned value is -1.

Examples:

Dim Test As Integer

Test = cDayOfYear(1995, 1, 1) '1
Test = cDayOfYear(1995, 3, 25) '84
Test = cDayOfYear(1995, 12, 31) '365
Test = cDayOfYear(1996, 12, 31) '366

DayOfWeek

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DayOfWeek calculate the day of the week.

Declare Syntax:

Declare Function cDayOfWeek Lib "time2win.dll" (ByVal nYear As Integer, ByVal nMonth As Integer, ByVal nDay As Integer, ByVal nISO As Integer) As Integer

Call Syntax:

Test% = cDayOfWeek(nYear%, nMonth%, nDay%, nISO%)

Where:

nYear% is the year. nMonth% is the month. nDay% is the day.

nISO% = True, for ISO specification,

= False, for non-ISO specification.

Test% is the returned day of the week.

Comments:

Following the ISO specification, the returned day of the week will be 0 (Monday) to 6 (Sunday). Following the non-ISO specification, the returned day of the week will be 0 (Sunday) to 6 (Saturday).

If the parameters are incorrect, the returned value is -1.

Examples:

Dim Test As Integer

Test = cDayOfWeek(1995, 3, 25, False) '6 (Saturday)
Test = cDayOfWeek(1995, 3, 26, False) '0 (Sunday)
Test = cDayOfWeek(1995, 3, 27, False) '1 (Monday)

^{&#}x27; For ISO spefication

^{&#}x27; For non-ISO specification

WeekOfYear

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

WeekOfYear calculate the week of the year.

Declare Syntax:

Declare Function cWeekOfYear Lib "time2win.dll" (ByVal nYear As Integer, ByVal nMonth As Integer, ByVal nDay As Integer, ByVal nISO As Integer) As Integer

Call Syntax:

Test% = cWeekOfYear(nYear%, nMonth%, nDay%)

Where:

nYear% is the year.
nMonth% is the month.
nDay% is the day.

nISO% = True, for ISO specification,

= False, for non-ISO specification.

Test% is the returned week of the year.

Comments:

ISO defines the first week with 4 or more days in it to be week #1

Following the ISO specification, the returned week of the year will be 0 to 52. Following the non-ISO specification, the returned week of the year will be 1 to 53.

If the parameters are incorrect, the returned value is -1.

Examples:

Dim Test As Integer

^{&#}x27; Following the ISO specification

Test = cWeekOfYear(1995, 12, 31, True)	' 52
Test = cWeekOfYear(1995, 1, 1, True)	' 0
Test = cWeekOfYear(1995, 1, 2, True)	' 1
Test = cWeekOfYear(1995, 3, 25, True)	' 12
Test = cWeekOfYear(1995, 3, 26, True)	' 12
Test = cWeekOfYear(1995, 12, 31, True)	' 52
Test = cWeekOfYear(1996, 1, 1, True)	' 1

^{&#}x27; Following the non-ISO specification

Test = cWeekOfYear(1995, 12, 31, False)	' 53
Test = cWeekOfYear(1995, 1, 1, False)	' 1
Test = cWeekOfYear(1995, 1, 2, False)	' 1
Test = cWeekOfYear(1995, 3, 25, False)	" 12
Test = cWeekOfYear(1995, 3, 26, True)	' 13
Test = cWeekOfYear(1995, 12, 31, False)	' 53
Test = cWeekOfYear(1996, 1, 1, False)	' 1

DateToScalar, ScalarToDate

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DateToScalar compute a Int from all date parts.
ScalarToDate decompose a Int date into these components.

Declare Syntax:

Declare Function cDateToScalar Lib "time2win.dll" (ByVal nYear As Integer, ByVal nMonth As Integer, ByVal nDay As Integer) As Long

Declare Sub cScalarToDate Lib "time2win.dll" (ByVal Scalar As Long, nYear As Integer, nMonth As Integer, nDay As Integer)

Call Syntax:

Int& = cDateToScalar(nYear%, nMonth%, nDay%)
Call cScalarToDate(Int&, nYear%, nMonth%, nDay%)

Where:

nYear% is the year.
nMonth% is the month.
nDay% is the day.

Scalar& is the returned computed Scalar.

Comments:

The date is computed from 0001.01.01, so 1 is 0001.01.01

For DateToScalar:

If the parameters are not correct, the returned value is -1.

Examples:

Dim Scalar As Long
Dim nYear As Integer
Dim nMonth As Integer
Dim nDay As Integer

Scalar = cDateToScalar(1995, 3, 25) '-> 728377

Call cScalarToDate(Scalar, nYear%, nMonth%, nDay%)

'nYear% '1995 'nMonth% '3 'nDay% '25

Purpose:

DaysInMonth return the total days in a month.

Declare Syntax:

Declare Function cDaysInMonth Lib "time2win.dll" (ByVal nYear As Integer, ByVal nMonth As Integer) As Integer

Call Syntax:

test = cDaysInMonth(nYear, nMonth)

Where:

nYear is the year with the century

nMonth is the month

Comments:

Examples:

nYear = 1994 nMonth = 12

test = cDaysInMonth(nYear, nMonth) '31

nYear = 1995 nMonth = 2

test = cDaysInMonth(nYear, nMonth) ' 28

ScalarToTime, TimeToScalar

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ScalarToTime decompose a scalar time into these components. TimeToScalar compute a scalar from all time parts.

Declare Syntax:

Declare Sub cScalarToTime Lib "time2win.dll" (ByVal Scalar As Long, nHour As Integer, nMin As Integer, nSec As Integer)

Declare Function cTimeToScalar Lib "time2win.dll" (ByVal nHour As Integer, ByVal nMin As Integer, ByVal nSec As Integer) As Long

Call Syntax:

Call cScalarToTime(Scalar&, nHour%, nMin%, nSec%) Scalar& = cTimeToScalar(nHour%, nMin%, nSec%)

Where:

Scalar& is a Scalar time.

nHour% is the returned hour.

nMin% is the returned minute.

nSec% is the returned second.

Comments:

For TimeToScalar:

The parameter Hour can be between 0 to 32767. If the parameters are not correct, the returned value is -1.

Examples:

Dim Scalar

Dim nHour

Dim nMin

As Integer

As Integer

As Integer

As Integer

Scalar = cTimeToScalar(16, 50, 30) ' 60630

Call cScalarToTime(60630, nHour%, nMin%, nSec%)

'nHour% 16 'nMin% 50 'nSec% 30

IntoFixHour, IntoHour, IntoVarHour

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

IntoFixHour is super-set for converting a VARIANT (INTEGER or LONG) into a fixed time string. IntoHour convert a VARIANT (INTEGER or LONG) into a hour string. IntoVarHour convert a VARIANT (INTEGER or LONG) into a hour string (variable length following the value).

Declare Syntax:

Declare Function cIntoFixHour Lib "time2win.dll" (Var As Variant, ByVal Length As Integer, ByVal fillZero As Integer, ByVal Hundreds As Integer) As String Declare Function cIntoHour Lib "time2win.dll" (Var As Variant) As String

Declare Function cintoHour Lib "time2win.dll" (Var As Variant) As String Declare Function cintoVarHour Lib "time2win.dll" (Var As Variant) As String

Call Syntax:

```
test$ = cIntoFixHour(Var, Length, fillZero, Hundreds)
test$ = cIntoHour(Var)
test$ = cIntoVarHour(Var)
```

Where:

Var the VARIANT value (LONG or INTEGER) to proceed

Length the length of the returned time string

fillZero TRUE if the time string must be filled with zero 0, FALSE if it not

Hundreds TRUE if the minutes must be converted in Hundreds, FALSE if it not. (This is useful for making

calculation)

test\$ the returned time string

Comments:

For the clntoFixHour function, if the value can be fitted in the length specified, the return string is filled with '?' The maximum format for the returned time string is HHHHHHHHH:MM

Examples:

Convert 12345 minutes into fixed hour :

Length	fillZero = TRUE	fillZero = FALSE	
0	****	***	
1	"?"	"?"	
2	"??"	"??"	
3	"???"	"???"	
4	"????"	"????"	
5	"?????"	"?????"	
6	"205:45"	"205:45"	
7	"0205:45"	" 205:45"	
8	"00205:45"	" 205:45"	
9	"000205:45"	" 205:45"	
10	"0000205:45"	" 205:45"	
11	"00000205:45"	" 205:45"	

IntoBalance, IntoBalanceFill

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

IntoBalance convert a VARIANT value (INTEGER or LONG) in a time string. IntoBalance convert a VARIANT value (INTEGER or LONG) in a time string with leading zero.

Declare Syntax:

Declare Function cIntoBalance Lib "time2win.dll" (Var As Variant) As String Declare Function cIntoBalanceFill Lib "time2win.dll" (Var As Variant) As String

Call Syntax:

test\$ = cIntoBalance(Var) test\$ = cIntoBalanceFill(Var)

Where:

Var the value to convert test\$ the time string

Comments:

For a positive value:

The format returned for the time string is "HHHHHH:MM"

For a negative value:

The maximum format and the minimum formart returned for the time string is "-HHHHH:MM"

Examples:

IntoBalanceFill		IntoBalance	
1234 is "00020:34" 1235 is "00020:35" 1236 is "00020:36" 1237 is "00020:37" 1238 is "00020:38" 1239 is "00020:39" 1240 is "00020:40" 1241 is "00020:41"	" " " " " " " " " " " " " " " " " " " "	20:34" 20:35" 20:36" 20:37" 20:38" 20:39" 20:40" 20:41"	
1242 is "00020:42" 1243 is "00020:43" 1244 is "00020:44" 1245 is "00020:45"	" "	20:42" 20:43" 20:44" 20:45"	

CurrentTime

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, <u>MSOffice 95</u>

Purpose:

CurrentTime returns the minutes elapsed since midnight. ExtCurrentTime returns the seconds elapsed since midnight.

Declare Syntax:

Declare Function cCurrentTime Lib "time2win.dll" () As Integer Declare Function cExtCurrentTime Lib "time2win.dll" () As Long

Call Syntax:

test% = cCurrentTime()
test& = cExtCurrentTime()

Where:

test% the minutes test& the seconds

Comments:

Examples:

test% = cCurrentTime() ' 1234 test& = cExtCurrentTime() ' 86399

Bitmap : Overview DIBSaveScreen save the solid save a wire DIBSaveWindow save a wire

save the screen (entire desktop) in a file (DIB format). save a window in a file (DIB format). display a bitmap as splash screen. destroy a bitmap displayed by DisplaySplash. tile a bitmap (DDB or DIB format) on a window. <u>DisplaySplash</u>

DestroySplash
TileBitmapOnWindow

TimeBetween

Purpose:

TimeBetween calculate the time (in minutes) between two hours (in minutes).

Declare Syntax:

Declare Function cTimeBetween Lib "time2win.dll" (ByVal Hr1 As Integer, ByVal Hr2 As Integer) As Integer

Call Syntax:

test% = cTimeBetween(Hr1, Hr2)

Where:

Hr1 the first time (0 to 1439) Hr2 the second time (0 to 1439)

Comments:

Examples:

test% = cTimeBetween(600, 721) '121 test% = cTimeBetween(1438, 62) '64

See also: Date and time

AddTime

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

AddTime retrieve only the part for hours on one day.

Declare Syntax:

Declare Function cAddTime Lib "time2win.dll" (ByVal Hr As Integer) As Integer

Call Syntax:

test = cAddTime(Hr)

Where:

Hr is the total minutes test is the result value.

Comments:

Examples:

test = cAddTime(1439+2) ' 1

test = cAddTime(2-4) ' 1438

See also : <u>Date and time</u>

CheckTime

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CheckTime verify if an hour (in minutes) is between two others hours (in minutes).

Declare Syntax:

Declare Function cCheckTime Lib "time2win.dll" (ByVal Hr As Integer, ByVal Hr1 As Integer, ByVal Hr2 As Integer) As Integer

Call Syntax:

test = cCheckTime(Hr, Hr1, Hr2)

Where:

Hr the hour (in minutes) to test

Hr1 the first hour Hr2 the second value

test TRUE if Hr is between Hr1 and Hr2

Comments:

Examples:

Hr = 1439 ' (23:59) Hr1 = 1400 ' (23:20)

Hr2 = 10 '(00:10)

test = cCheckTime(Hr, Hr1, Hr2) 'TRUE

Hr = 120 '(02:00)

test = cCheckTime(Hr, Hr1, Hr2) 'FALSE

See also : $\underline{\text{Date and time}}$

AddTwoTimes

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

AddTwoTimes add two time string to form a third time string.

Declare Syntax:

Declare Function cAddTwoTimes Lib "time2win.dll" (ByVal Time1 As String, ByVal Time2 As String) As String

Call Syntax:

Test\$ = cAddTwoTimes(Time1\$, Time2\$)

Where:

Time1\$ is the first time string (format is HH:MM:SS).
Time2\$ is the second time string (format is HH:MM:SS).

Test\$ is the result (format is HH:MM:SS).

Comments:

The length of each time string must be absolutely 8 characters. The format of each time string must be absolutely HH:MM:SS. If the sum of the two time string exceed 24:00:00, the returned string is calculated from 00:00:00.

Examples:

Dim Time1 As String Dim Time2 As String Dim Time3 As String

Time1 = "23:58:58" Time2 = "01:02:01"

Time3 = cAddTwoTimes(Time1\$, Time2\$) ' "01:00:59"

See also: Date and time

HourTo

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HourTo convert a time string to a VARIANT value in minutes (INTEGER or LONG).

Declare Syntax:

Declare Function cHourTo Lib "time2win.dll" (Txt As String) As Variant

Call Syntax:

test = cHourTo(Txt)

Where:

Txt the time to convert test the time in minutes

Comments:

The maximum format is for positive time "HHHHHHHH:MM" and for negative time "-HHHHHH:MM" The returned value is a VARIANT (INTEGER or LONG).

Examples:

The time "123:45" is 7425 minutes
The time "23:58" is 1438 minutes
The time "7:36" is 456 minutes
The time ":24" is 24 minutes
The time ":4" is 4 minutes
The time ":" is 0 minutes

The time "-123:45" is -7425 minutes

The time "-23:58" is -1438 minutes

The time "-7:36" is -456 minutes
The time "-:24" is -24 minutes
The time "-:4" is -4 minutes
The time "-:" is 0 minutes

See also: Date and time

DIBSaveScreen, DIBSaveWindow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DIBSaveScreen save the screen (entire desktop) in a file. DIBSaveWindow save a window in a file.

Declare Syntax:

Public Const DIB SAVE WINDOW = True Public Const DIB SAVE CLIENT = False

Declare Function cDIBSaveScreen Lib "time2win.dll" (ByVal IpFileName As String) As Integer Declare Function cDIBSaveWindow Lib "time2win.dll" (ByVal hWnd As Long, ByVal SaveArea As Integer, ByVal IpFileName As String) As Integer

Call Syntax:

intResult% = cDIBSaveScreen(lpFileName\$) intResult% = cDIBSaveWindow(hWnd&, SaveArea%, lpFileName\$)

Where:

lpFileName\$ is the name of the file to save the DIB (Device-Independent Bitmap)

hWnd& is the .hWnd property of a form or a control

DIB_SAVE_WINDOW DIB_SAVE_CLIENT : save the client area and the non-client area SaveArea%

: save only the client area

intResul% True: all is OK

False: an error has occured

Comments:

All files saven with these functions can be used with the .LoadPicture property.

Examples:

debug.print cDIBSaveScreen("c:\test\save scr.bmp") debug.print cDIBSaveWindow(Me.hWnd, DIB SAVE WINDOW, "c:\test\save win.bmp") debug.print cDIBSaveWindow(Me.hWnd, DIB SAVE CLIENT, "c:\test\save cli.bmp")

See also: Bitmap

InstallHookKeyboard

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

InstallHookKeyboard install a hook of the keyboard to handle special keys for special tasks.

Declare Syntax:

Declare Function clnstallHookKeyboard Lib "time2win.dll" (ByVal InstallRemove As Integer) As Integer

Call Syntax:

intResult% = cInstallHookKeyboard(InstallRemove%)

Where:

InstallRemove% TRUE to add the hook FALSE to remove the hook

intResult% TRUE: the hook has been successfully installed

FALSE: an error has occured or the hook has been already installed

Comments:

Press ALT+CTRL+SHIFT+F11 to open a dialog box for save the screen in a file to be selected. Press ALT+CTRL+SHIFT+F12 to open a dialog box for save the window in a file to be selected.

There is no need to call this function with the FALSE parameter when you stop your program. The hook of the keyboard will be automatically removed when T2WIN-32.DLL will be removed from the memory

Examples:

debug.print clnstallHookKeyboard(TRUE)

' Press ALT+CTRL+SHIFT+F11 : for save the screen in a file to be selected.

' Press ALT+CTRL+SHIFT+F12 : for save the active window in a file to be selected.

See also: Hook keyboard

TileBitmapOnWindow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

TileBitmapOnWindow tile a bitmap (DDB or DIB format) on a window.

Declare Syntax:

Declare Function cTileBitmapOnWindow Lib "time2win.dll" (ByVal hWnd As Long, ByVal lpFileName As String) As Integer

Call Syntax:

intResult% = cTileBitmapOnWindow(hWnd&, lpFileName\$)

Where:

hWnd& is the .hWnd property of a form or a control

IpFileName\$ is the name of the file to read the DDB (Device-Dependent Bitmap) or DIB (Device-Independent

Bitmap)

TRUE: all is OK intResult%

FALSE: IpFileName\$ not exist

Comments:

The function take care of the state of the form.

You must set the .AutoRedraw property to False.

To perform an autoredraw, you must do this:

Private Sub Form_Paint()

Dim intResult As Integer

intResult = cTileBitmapOnWindow(Me.hWnd, App.Path + "\time2win.dib")

End Sub

Examples:

debug.print cTileBitmapOnWindow(Me.hWnd, "c:\test\time2win.dib")

See also: Bitmap

Hook keyboard : Overview Install Hook Keyboard install a hook keyboard to save the screen or the active window in a file (DIB format).

RegistryKeyInfo

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RegistryKeyInfo retrieves informations about the specified key in the Windows registry.

Declare Syntax:

Declare Function cRegistryKeyInfo Lib "time2win.dll" (ByVal IpSection As String, REGISTRYKEYINFO As tagREGISTRYKEYINFO) As Integer

Call Syntax:

retCode% = cRegistryKeyInfo(lpSection\$, REGISTRYKEYINFO)

Where:

lpSection\$ string expression containing the name of the section where the key setting is being saved.

REGISTRYKEYINFO is a type'd structure

Type tagREGISTRYKEYINFO
ISubKeys As Long 'number of subkeys

IMaxSubKeyLen As Long 'maximum length of subkeys

IValues As Long 'number of keys

IMaxValueNameLen As Long 'maximum length of the name of keys IMaxValueLen As Long 'maximum length of the value of

keys

sInfoInStr As String 'above informations in a string

End Type

retCode% <u>error/success code</u>.

Comments:

Examples:

```
strDisplay = strDisplay & "Key information is " & cRegistryKeyInfo(Section1, RKI) & """ & vbCrLf strDisplay = strDisplay & " SubKeys = " & RKI.ISubKeys & vbCrLf strDisplay = strDisplay & " MaxSubKeyLen = " & RKI.IMaxSubKeyLen & vbCrLf values = " & RKI.IMaxSubKeyLen & vbCrLf waxValues = " & RKI.IMaxValueNameLen & vbCrLf strDisplay = strDisplay & " MaxValueNameLen = " & RKI.IMaxValueNameLen & vbCrLf maxValueLen = " & RKI.IMaxValueLen & vbCrLf maxValueLen = " & RKI.IMaxValueLen & vbCrLf maxValueLen & vbCrLf max
```

Result:

Getting default value is 'no key' Getting value of key 'key2' is 'test key 2' Getting value of key 'key1' is 'test key 1'

Key information is '-1'
SubKeys = 0
MaxSubKeyLen = 0
Values = 3
MaxValueNameLen = 4
MaxValueLen = 11
InfoInStr = 0:0:3:4:11

See also: Registry key

GetRegistry **KillRegistry** PutRegistry <u>GetRegistryExt</u> KillRegistryExt **PutRegistryExt**

Registry key: Overview

GetAllSettings

returns a list of key settings and their respective values from an application's entry in the registry. returns a key setting value from an application's Windows registry entry. deletes a section or key setting from the Windows registry entry. saves or creates an application entry in the Windows registry entry. returns a key setting value from an application's Windows registry entry for any key handle.

deletes a section or key setting from the Windows registry entry for any key handle. saves or creates an application entry in the Windows registry entry for any key handle.

RegistryKeyInfo retrieves informations about the specified key in the Windows registry.

RegistrationKey, RegistrationKey3, RegistrationKey3

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RegistrationKey perform the calculation of a key from a name and one code. RegistrationKey2 perform the calculation of a key from a name and two code. RegistrationKey3 perform the calculation of a key from a name and three code.

Declare Syntax:

Declare Function cRegistrationKey Lib "time2win.dll" (ByVal RegText As String, ByVal RegKey1 As Long) As Long Declare Function cRegistrationKey2 Lib "time2win.dll" (ByVal RegText As String, ByVal RegKey1 As Long, ByVal RegKey2 As Long) As Long

Declare Function cRegistrationKey3 Lib "time2win.dll" (ByVal RegText As String, ByVal RegKey1 As Long, ByVal RegKey2 As Long, ByVal RegKey3 As Long) As Long

Call Syntax:

Key& = cRegistrationKey(RegString\$, RegCode&)

Where:

RegText\$ the name for the registration.

RegKey1& the basis code for generating the registration

RegKey2& the first extended code for generating the registration the second extended code for generating the registration the second extended code for generating the registration Key& = 0, if length of RegText is < 10 or if RegKey1 is 0, <>0, the key calculated from RegText and RegKey1.

Comments:

Using this registration key system, you can easily and quickly generate and verify the validity of numerical registration keys that correspond to a person who has purchased your program. Thus, when someone who already has a shareware or demo version of your program wishes to purchase the program, you need only send them a simple registration key number, instead of sending an entire registered version. You can simply use this package to generate a unique registration key number which corresponds to the user's name (or any other string you wish to use). The user will then be able to enter this number into your software's configuration file / configuration program. When your program begins, it will be able to read this number from the configuration file, and again using this package, determine whether it is a valid registration key corresponding to the user's name. If the registration key is valid, your program can switch into "registered mode", and if not, can run in its unregistered "unregistered mode". (Source from Brian Pirie).

Examples:

Dim Key As Long Dim RegText As String

RegText = "this is a testthis is a test"

Key = cRegistrationKey(Tmp, 123456789) '590573797

Key = cRegistrationKey3(Tmp, 123456789, 864297531, 12344321) '132616468

See also: Protection

Protection: Overview

perform the hash algorithm (MD5) to a specified string. calculate the mod-10 of the given string. HashMD5

Mod10

Mod10R calculate the reverse mod-10 of the given string.

Mod11 calculate the mod-11 of the given string.

calculate the reverse mod-11 of the given string. Mod11R calculate the mod-1.3.7 of the given string. calculate the reverse mod-1.3.7 of the given string. Mod137

Mod137R

RegistrationKey perform the calculation of a key from a name and one code. RegistrationKey2 perform the calculation of a key from a name and two code. RegistrationKey3 perform the calculation of a key from a name and three code.

ReadCtlLanguageExt, SaveCtlLanguageExt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SaveCtlLanguageExt create or update a generic file (one file par language) which contains the text for supporting a language.

ReadCtlLanguageExt read a generic file (one file per language) which contains the text for supporting a language.

Declare Syntax:

Declare Function cSaveCtlLanguageExt Lib "time2win.dll" (Obj As Object, ByVal Property As Integer, ByVal FileLanguage As String) As Integer

Declare Function cReadCtlLanguageExt Lib "time2win.dll" (Obj As Object, ByVal Property As Integer, ByVal FileLanguage As String) As Integer

Call Syntax:

```
test% = cSaveCtlLanguage(Obj, Property, FileLanguage)
test% = cReadCtlLanguage(Obj, Property, FileLanguage)
```

Where:

Obj is any object on the form to use the text language.

Property is an association of constants (RS_CAPTION, RS_TEXT, RS_DATAFIELD,

RS DATASOURCE, RS TAG)

FileLanguage is the file name to perform the language management.

test% TRUE if all is ok

FALSE is an error has occured

Comments:

These functions are very, VERY simple to use and your application can support multi-language very fast.

If a problem occurs when accessing the controls or if the filename is an EMPTY string, the returned value is FALSE. These fonctions doesn't test the validity of the file name.

Ctl can be any control on the form (also Label1).

Property can be RS_CAPTION to use only controls did have a .Caption property.

can be RS TEXT to use only controls did have a .Text property.

can be RS DATAFIELD to use only controls did have a .DataField property.

can be RS DATASOURCE to use only controls did have a .DataSource property.

can be RS TAG to use only controls did have a .Tag property.

can be any 'OR' association of the four following constants:

RS_CAPTION Or RS_TEXT Or RS_DATAFIELD Or RS_DATASOURCE Or RS_TAG

If ypu want to use all properties, you can pass the value 255.

If you use of RS_DATAFIELD and/or RS_DATASOURCE, you don't need to set the .DataField and/or .DataSource in the Properties Window is design mode. This is can be useful and is not memory hungry, and the EXE size of your application is minder.

FileLanguage is the name of the file to use to store or retrieve the Property. After the first saving, you translate the file (with NOTEPAD, b.e.) into an another language and save it to an other name. You can use the extension als follows .T?? with ?? is FR (for FRench), UK (for United Kingdom, GE (for GErmany), IT (for ITaly), SP (for SPain),

Examples:

See also : Language control

HashMD5

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

HashMD5 perform the hash algorithm (MD5) to a specified string.

Declare Syntax:

Declare Function cHashMD5 Lib "time2win.dll" (Text As String) As String

Call Syntax:

Hash\$ = cHashMD5(Text\$)

Where:

Text\$ the specified string (length between 1 to 32767).

Hash\$ the returned hashed string.

Comments:

A hash algorithm such as MD5 is often used in cryptosystems to "reduce" a user-supplied passphrase into a sufficient number of bits to use as a key to the system. The following is taken from the Executive Summary section of the Internet RFC that proposes MD5 as a standard.

The [MD5] algorithm takes as input an input message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem such as RSA. (Source from Andy Brown).

HashMD5 is derived from the RSA ** ** Data Security, Inc. MD5 Message-Digest Algorithm.

Examples:

Dim Hash As String

Hash = cToHexa(cHashMD5("TIME TO WIN")) '24456922E9A382257E22338DEC584191

See also: Protection

Windows: Overview

<u>ArrangeDesktopIcons</u> arranges all desktop icons. <u>CenterWindow</u> centers a window in the screen.

EXEnameActiveWindow retrieves the full filename (path and file) of the active window.

EXEnameTask retrieves the full path and filename of the executable file from which the specified module

was loaded.

EXEnameWindow retrieves the full filename (path and file) of the specified window.

ExitWindowsAndExecute terminates Windows, runs a specified MS-DOS application, and then restarts Windows.

GetClassName retrieves the full class name of a window.

GetCountry
GetCountryCode
GetCurrency
returns the country name.
returns the country code.
returns the currency.

GetCurrentDrive returns the current default drive.

GetDateFormat returns the format for the date.

GetDateSeparator returns the separator for the date.

GetDefaultPrinter returns the default printer in the [windows] section of Win.INI returns all devices founden in the [devices] section in the Win.INI

GetDriveCurrentDir retrieves the current dir on the specified drive.

GetHourFormat returns the format for the hour.

Getlni retrieves an item in a section of an INI file.
GetLanguage returns the letters for the language.
GetListSeparator returns the separator for list.

GetPrinterPorts
GetSectionItems
GetSystemDirectory

returns all printers set in the [printerports] section in the Win.INI retrieves all items founden in a section of a specified INI file. retrieves the full path of the System directory for Windows.

GetTimeSeparator returns the separator for the date.

GetWindowsDirectory retrieves the full path for the Windows directory.

GetWinINI returns the information for a given item.

Gradient creates a gradient (8 effects) on a control/form which can accept .hDC

Putlni saves an item in a section of an INI file.

RebootSystem reboots your system.
RestartWindows restarts your Windows.

RunFile opens a specified executable or document file.

<u>ShowWindow</u> shows a window after an exploded/imploded focus rectangle has been displayed.

WalkThruWindow walks in the window's list of all windows at a given moment.

Putlni

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Putlni save an item in a section of an INI file.

Declare Syntax:

Declare Sub cPutIni Lib "time2win.dll" (ByVal AppName As String, ByVal szItem As String, ByVal szDefault As Str

Call Syntax:

Call cPutIni(AppName, szItem, szDefault, InitFile)

Where:

AppName a string that specifies the section to which the string will be copied. If the section does not exist, it is

created.

szltem a string containing the entry to be associated with the string. If the entry does not exist in the

specified section, it is created.

If this parameter is NULL, the entire section, including all entries within the section, is deleted.

szDefault a string to be written to the file. If this parameter is NULL, the entry specified by the szItem

parameter is deleted.

InitFile a filename that names the initialization file.

Comments:

To improve performance, Windows keeps a cached version of the most-recently accessed initialization file. If that filename is specified and the other three parameters are NULL, Windows flushes the cache.

Sections in the initialization file have the following form:

[section] entry=string

Examples:

Call cPutIni("Desktop", "IconTitleFaceName", "MS Sans Serif", "WIN.INI")

GetSeparator.X

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

All values returned are readed from the Win.INI file.

GetCountry return the country name.
GetCountryCode return the country code.
GetCurrency return the currency.
GetDateFormat return the format for the date.
GetDateSeparator return the separator for the date.
GetHourFormat return the format for the hour.
GetLanguage return the letters for the language.
GetListSeparator return the separator for list.
GetTimeSeparator return the separator for the date.

GetWinINI return the information for a given item.

Declare Syntax:

Declare Function cGetCountry Lib "time2win.dll" () As String
Declare Function cGetCountryCode Lib "time2win.dll" () As String
Declare Function cGetCurrency Lib "time2win.dll" () As String
Declare Function cGetDateFormat Lib "time2win.dll" () As String
Declare Function cGetDateSeparator Lib "time2win.dll" () As String
Declare Function cGetHourFormat Lib "time2win.dll" () As String
Declare Function cGetLanguage Lib "time2win.dll" () As String
Declare Function cGetListSeparator Lib "time2win.dll" () As String
Declare Function cGetTimeSeparator Lib "time2win.dll" () As String
Declare Function cGetWinINI Lib "time2win.dll" (ByVal Info As Integer) As String

Call Syntax:

The purpose and the declare syntax are very explicite.

Where:

Info the number of the desired item

Comments:

The advantage to use these routines is that these routines is very fast and doesn't use the WINDOWS API in VB.

Examples:

GetDateSeparator is '/'
GetTimeSeparator is ':'

GetListSeparator is ';'

GetDateFormat is 'dd/mm/yyyy'
GetHourFormat is 'hh:nn'
GetCurrency is 'FB'
GetLanguage is 'fra'

GetCountry is 'Belgium (French)'

GetCountryCode is '32'

' definition for win.ini section

Public Const GET_TIME_SEPARATOR = 1
Public Const GET_DATE_SEPARATOR = 2
Public Const GET_TIME_FORMAT = 3
Public Const GET_DATE_FORMAT = 4
Public Const GET_CURRENCY = 5
Public Const GET_LANGUAGE = 6
Public Const GET_COLINITES = 7

Public Const GET_LANGUAGE = 0
Public Const GET_COUNTRY = 7
Public Const GET_COUNTRY_CODE = 8
Public Const GET_LIST_SEPARATOR = 9
Public Const GET_DEFAULT_PRINTER = 10

 $\begin{tabular}{ll} GetWindows Directory \\ \textbf{QuickInfo}: VB 3.0, VB 4.0 (16-Bit), $\underline{$VB$ 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, $MSOffice 95$} \\ \end{tabular}$

Purpose:

GetWindowsDirectory retrieve the full path for the Windows directory.

Declare Syntax:

Declare Function cGetWindowsDirectory Lib "time2win.dll" () As String

Call Syntax:

test\$ = cGetWindowsDirectory()

Where:

is the full path test\$

Comments:

Examples:

test\$ = cGetWindowsDirectory() ' "K:\WIN95"

 $\begin{tabular}{ll} Get System Directory \\ \textbf{QuickInfo}: VB 3.0, VB 4.0 (16-Bit), \underline{VB} 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, $\underline{MSOffice}$ 95 \\ \end{tabular}$

Purpose:

GetSystemDirectory retrieve the full path of the System directory for Windows.

Declare Syntax:

Declare Function cGetSystemDirectory Lib "time2win.dll" () As String

Call Syntax:

test\$ = cGetSystemDirectory()

Where:

the full path of the System directory test\$

Comments:

Examples:

test\$ = cGetSystemDirectory() ' "K:\WIN95\SYSTEM"

GetTaskName

 $\textbf{QuickInfo:} \ \ VB \ \ 3.0, \ \ VB \ \ 4.0 \ \ (16\text{-Bit}), \ \ \underline{VB} \ \ 4.0 \ \ (32\text{-Bit}) \ \ | \ \ VB \ \ 5.0 \ \ | \ \ VBA \ \ 5.0 \ \ \{Win95/WinNT\}, \ \ \\ \textbf{MSOffice 95}$

Purpose:

GetTaskName read the name of the task. You see the name in the Task Manager by pressing the CTRL + ESC keys.

Declare Syntax:

Declare Function cGetTaskName Lib "time2win.dll" (ByVal hWnd As Long) As String

Call Syntax:

test\$ = cGetTaskName(Form.hWnd)

Where:

Form.hWnd is the hWnd of your application test\$ is the old task name of the application

Comments:

This is useful to retrieve the task name.

Examples:

Dim TaskName As String

TaskName = cGetTaskName(Me.hWnd)

MsgBox TaskName ' "Microsoft Visual Basic"

See also: <u>Task - File version</u>

GetSectionItems

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetSectionItems retrieve all items founden in a section of a specified INI file.

Declare Syntax:

Declare Function cGetSectionItems Lib "time2win.dll" (ByVal Section As String, ByVal InitFile As String, nItems As Integer) As String

Call Syntax:

test\$ = cGetSectionItems(Section, InitFile, nItems)

Where:

Section the section to proceed InitFile the INI file to proceed.

nltems the total items founden in the section test\$ the items in the specified section

Comments:

If the section don't exists, the returned file is an EMPTY string and nItems is 0. The InitFile is any file which have a INI structure. Each item is the section is separated by a chr\$(13).

Examples:

Dim n As Integer

Debug.Print cGetSectionItems("desktop", "win.ini", n)

Debug.Print "Total Items founded in this section is " & n

On my system:

Pattern=(None)
GridGranularity=0
IconSpacing=77
TileWallPaper=1
IconTitleFaceName=MS Sans Serif
IconTitleSize=-11
IconTitleStyle=0
IconVerticalSpacing=72
wallpaper=(None)

Total Items founded in this section is = 9

Debug.Print cGetSectionItems("intl", "win.ini", n)

Debug.Print "Total Items founded in this section is " & n

sLanguage=fra sCountry=Belgium (French) iCountry=32 iDate=1 iTime=1 iTLZero=0
iCurrency=3
iCurrDigits=2
iNegCurr=8
iLzero=0
iDigits=2
iMeasure=0
s1159=
s2359=
sCurrency=FB
sThousand=.
sDecimal=,
sDate=/
sTime=:
sList=;
sShortDate=d/MM/yy
sLongDate=dddd d MMMM yyyy
sFrameNum=#mmjk`sdnm

Total Items founded in this section is = 23

GetPrinterPorts

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, <u>MSOffice 95</u>

Purpose:

GetPrinterPorts return all printers set in the [printerports] section in the Win.INI

Declare Syntax:

Declare Function cGetPrinterPorts Lib "time2win.dll" () As String

Call Syntax:

test\$ = cGetPrinterPorts()

Where:

test\$ all printer founded separated by a chr\$(13).

Comments:

Use the cGetIn function to extract each printer.

ChangeTaskName

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ChangeTaskName change the name of the task. You see change in the Task Manager by pressing the CTRL + ESC keys.

Declare Syntax:

Declare Sub cChangeTaskName Lib "time2win.dll" (ByVal hWnd As Long, ByVal Text As String)

Call Syntax:

Call cChangeTaskName(Form.hWnd, Text)

Where:

Form.hWnd is the hWnd of your application

Text is the new task name to given at your application

Comments:

This is useful to set a particular task name at your application.

Examples:

Call cChangeTaskName(Me.hWnd, "Hello world")

' press the CTRL + ESC keys to see the change in the Task Manager

See also: Task - File version

ShowWindow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), <u>VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}</u>, MSOffice 95

Purpose:

ShowWindow show a window after an exploded/imploded focus rectangle has been displayed.

Declare Syntax:

Declare Sub cShowWindow Lib "time2win.dll" (ByVal hWnd As Long, ByVal method As Integer, ByVal interval As Integer)

Call Syntax:

Call cShowWindow(hWnd%, method%, interval%)

Where:

hWnd% is the handle of a form.

method% 0 : explode the form starting at center of the form.

1 : implode the form starting at external.

interval% 0 : faster

699 : lower

Comments:

The interval is a modulo of 700 and is calculated in millisecond.

Examples:

Call cShowWindow(Form1.hWnd, 0, 250)

GetChangeTaskName

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetChangeTaskName get and change the name of the task. You see change in the Task Manager by pressing the CTRL + ESC keys.

Declare Syntax:

Declare Function cGetChangeTaskName Lib "time2win.dll" (ByVal hWnd As Long, ByVal Text As String) As String

Call Syntax:

test\$ = cGetChangeTaskName(Form.hWnd, Text)

Where:

Form.hWnd is the hWnd of your application

Text is the new task name to given at your application

test\$ is the old task name of the application

Comments:

This is useful to set a particular task name at your application and backups the old task name. This function is a mix of cGetTaskName and cChangeTaskName.

Examples:

Dim OldTaskName As String

OldTaskName = cGetChangeTaskName(Me.hWnd, "Hello world") MsgBox OldTaskName

- ' press the CTRL + ESC keys to see the change in the Task Manager
- 'OldTaskName is "Microsoft Visual Basic"

'OldTaskName is "Hello world"

See also: Task - File version

^{&#}x27; if you repeat the test

TaskBarAddlcon, TaskBarDeletelcon, TaskBarModifyIcon

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

TaskBarAddIcon add an icon for an application in the tray of the task bar.

TaskBarDeleteIcon delete the tray icon from an application in the task bar.

TaskBarModifyIcon modify an icon for an application in the tray of the task bar.

Declare Syntax:

Declare Function cTaskBarAddlcon Lib "time2win.dll" (ByVal hWnd As Long, ByVal hIcon As Long, ByVal lpszTip As String) As Integer

Declare Function cTaskBarDeleteIcon Lib "time2win.dll" (ByVal hWnd As Long) As Integer Declare Function cTaskBarModifyIcon Lib "time2win.dll" (ByVal hWnd As Long, ByVal hIcon As Long, ByVal lpszTip As String) As Integer

Call Syntax:

intResult% = cTaskBarAddlcon(hWnd&, hlcon&, lpszTip\$) intResult% = cTaskBarDeletelcon(hWnd&) intResult% = cTaskBarModifylcon(hWnd&, hlcon&, lpszTip\$)

Where:

hWnd& is the .hWnd property of the form used to performe operation in the tray on task bar. lpszTip\$ is the .lcon property of the form used to performe operation in the tray on task bar. is the tooltip message to display when the mouse moves over the icon in the tray

Comments:

Don't forget to call cTaskBarDeleteIcon when your application end. Beware when you use CTRL+BREAK to stop your application. Beware when you use END statement to stop your application.

Examples:

in the Form_Load event :

debug.print cTaskBarAddlcon(Me.hWnd, Me.lcon., "Form1 loaded")

in the Form Resize event:

debug.print cTaskBarModifylcon(Me.hWnd, Me.lcon., "Form1 minimized")

in the Form QueryUnload event:

debug.print cTaskBarDeletelcon(Me.hWnd)

GetClassName

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetClassName retrieve the full class name of a window.

Declare Syntax:

Declare Function cGetClassName Lib "time2win.dll" (ByVal hWnd As Long) As String

Call Syntax:

test\$ = cGetClassName(hWnd)

Where:

hWnd is the .hWnd of a control. test\$ is the returned class name.

Comments:

if the .hWnd is not exist, the returned string is an EMPTY string.

Examples:

test\$ = cGetClassName(Me.hWnd) -> "ThunderForm"

test\$ = cGetClassName(Command1.hWnd) -> "ThunderCommandButton" test\$ = cGetClassName(List1.hWnd) -> "ThunderListBox" test\$ = cGetClassName(Text1.hWnd) -> "ThunderTextBox"

EXEnameActiveWindow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

EXEnameActiveWindow retrieve the full filename (path and file) of the active window.

Declare Syntax:

Declare Function cEXEnameActiveWindow Lib "time2win.dll" () As String

Call Syntax:

test\$ = cEXEnameActiveWindow()

Where:

test\$ is the name of the active window

Comments:

Examples:

test\$ = cEXEnameActiveWindow()

On my system : test\$ = "K:\WIN95\VB\VB.EXE"

See also : $\underline{\text{Windows}}$

EXEnameWindow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

EXEnameWindow retrieve the full filename (path and file) of the specified window.

Declare Syntax:

Declare Function cEXEnameWindow Lib "time2win.dll" (ByVal hModule As Integer) As String

Call Syntax:

test\$ = cEXEnameWindow(Form.Hwnd)

Where:

hModule is the hWnd of the window

test\$ is the name of the specified window

Comments:

Examples:

test\$ = cEXEnameWindow(Me.hWnd)

On my system : test\$ = "K:\WIN95\VB\VB.EXE"

EXEnameTask

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

EXEnameTask retrieve the full path and filename of the executable file from which the specified module was loaded.

Declare Syntax:

Declare Function cEXEnameTask Lib "time2win.dll" (ByVal nFileName As String) As String

Call Syntax:

test\$ = cEXEnameTask(nFileName)

Where:

nFileName is the task name as you fin when pressing CTRL + ESC keys

test\$ is the returned full path and filename

Comments:

Examples:

test\$ = cEXEnameTask("PROGMAN")

On my system : test\$ = "K:\WIN95\PROGMAN.EXE"

ExitWindowsAndExecute, RebootSystem, RestartWindows

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ExitWindowsAndExecute terminate Windows, runs a specified MS-DOS application, and then restarts Windows. RebootSystem reboot your system. RestartWindows restart your Windows.

Declare Syntax:

Declare Function cExitWindowsAndExecute Lib "time2win.dll" (ByVal lpszExe As String, ByVal lpszParams As String) As Integer

Declare Function cRebootSystem Lib "time2win.dll" () As Integer Declare Function cRestartWindows Lib "time2win.dll" () As Integer

Call Syntax:

```
test% = cExitWindowsAndExecute(IpszExe, IpszParams)
test% = cRebootSystem()
test% = cRestartWindows()
```

Where:

IpszExeis the program to launch after exiting Windows.IpszParamsare the associated parameter to pass to the program.test%= 0 if one or more applications refuse to terminate.

Comments:

The ExitWindowsAndExecute function is typically used by installation programs to replace components of Windows which are active when Windows is running.

Examples:

test% = cExitWindowsAndExecute("MENU.EXE", "/Z/V/C")
test% = cRebootSystem()
test% = cRestartWindows()

See also: Windows

GetDefaultCurrentDir

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetDefaultCurrentDir retrieve the current dir on the current drive.

Declare Syntax:

Declare Function cGetDefaultCurrentDir Lib "time2win.dll" () As String

Call Syntax:

test\$ = cGetDefaultCurrentDir()

Where:

test\$ the dir

Comments:

The GetDefaultCurrentDir function gets the full path of the current working directory for the default drive . The integer The GetDefaultCurrentDir function returns a string that represents the path of the current working directory. If the current working directory is set to the root, the string will end with a backslash (\). If the current working directory is set to a directory other than the root, the string will end with the name of the directory and not with a backslash.

Examples:

See also: Windows

GetDefaultPrinter

Purpose:

GetDefaultPrinter return the default printer in the [windows] section of Win.INI

Declare Syntax:

Declare Function cGetDefaultPrinter Lib "time2win.dll" () As String

Call Syntax:

test\$ = cGetDefaultPrinter()

Where:

test\$ is the default printer

Comments:

Examples:

test\$ = cGetDefaultPrinter() -> "HP LASERJET III,HPPCL5MS,LPT1:"

See also : Windows

GetDevices

Purpose:

GetDevices return all devices founden in the [devices] section in the Win.INI

Declare Syntax:

Declare Function cGetDevices Lib "time2win.dll" () As String

Call Syntax:

test\$ = cGetDevices()

Where:

test\$ all devices separated by a chr\$(13).

Comments:

Use the cGetIn function to extract each device.

Examples:

test\$ = cGetDevices() -> "HP LaserJet III=HPPCL5MS,LPT1:"

See also : Windows

GetDriveCurrentDir

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetDriveCurrentDir retrieve the current dir on the specified drive.

Declare Syntax:

Declare Function cGetDriveCurrentDir Lib "time2win.dll" (ByVal lpDrive As String) As String

Call Syntax:

test\$ = cGetDefaultCurrentDir(lpDrive)

Where:

IpDrive the letter for the drive

test\$ the dir

Comments:

The GetDriveCurrentDir function gets the full path of the current working directory on the specified drive The GetDriveCurrentDir function returns a string that represents the path of the current working directory on the specified drive. If the current working directory is set to the root, the string will end with a backslash (\). If the current working directory is set to a directory other than the root, the string will end with the name of the directory and not with a backslash.

If the disk is not present or if the disk is not available or if an error occurs when accessing the disk, the returned value is always an EMPTY string.

This function works with local disk (hard, floppy or cd-rom) als well on remote disk (network).

Examples:

See also: Windows

ComboSearchDir, ComboSearchFile, ComboSearchFileAttrib

ListSearchDir, ListSearchFile, ListSearchFileAttrib

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ComboSearchDir perform a directory pattern match starting with a specified path and fill a standard combo box. ComboSearchFile perform a file pattern match starting with a specified path and fill a standard combo box. ComboSearchFileAttrib perform a file (with attribute) pattern match starting with a specified path and fill a standard combo box.

ListSearchDir perform a directory pattern match starting with a specified path and fill a standard list box.
ListSearchFile perform a file pattern match starting with a specified path and fill a standard list box.
ListSearchFileAttrib perform a file (with attribute) pattern match starting with a specified path and fill a standard list box.

Declare Syntax:

Declare Function cComboSearchDir Lib "time2win.dll" (ByVal hWnd As Long, ByVal lpStartPath As String, ByVal lpFileMask As String) As Long

Declare Function cComboSearchFile Lib "time2win.dll" (ByVal hWnd As Long, ByVal lpStartPath As String, ByVal lpFileMask As String) As Long

Declare Function cComboSearchFileAttrib Lib "time2win.dll" (ByVal hWnd As Long, ByVal lpStartPath As String, ByVal lpFileMask As String, ByVal iSearchAttribute As Integer) As Long

Declare Function cListSearchDir Lib "time2win.dll" (ByVal hWnd As Long, ByVal lpStartPath As String, ByVal lpFileMask As String) As Long

Declare Function cListSearchFile Lib "time2win.dll" (ByVal hWnd As Long, ByVal lpStartPath As String, ByVal lpFileMask As String) As Long

Declare Function cListSearchFileAttrib Lib "time2win.dll" (ByVal hWnd As Long, ByVal lpStartPath As String, ByVal lpFileMask As String, ByVal iSearchAttribute As Integer) As Long

Call Syntax:

IngResult& = cComboSearchDir(hWnd&, lpStartPath\$, lpFileMask\$)
IngResult& = cComboSearchFile(hWnd&, lpStartPath\$, lpFileMask\$)
IngResult& = cComboSearchFileAttrib(hWnd&, lpStartPath\$, lpFileMask\$, iSearchAttribute%)
IngResult& = cListSearchDir(hWnd&, lpStartPath\$, lpFileMask\$)
IngResult& = cListSearchFile(hWnd&, lpStartPath\$, lpFileMask\$)
IngResult& = cListSearchFileAttrib(hWnd&, lpStartPath\$, lpFileMask\$, iSearchAttribute%)

Where:

hWnd& is the .hWnd property of a standard list or combo box.

lpStartPath\$ is the starting path to begin the search.

lpFileMask\$ is the file mask to match.

iSearchAttribute% is the file attribute mask (see attributes)

Comments:

For the pattern match, see PatternMatch.

The search for directory/file is case-insensitive.

Examples:

debug.print cComboSearchDir(Combo1.hWnd, "c:\", "t2win-32") debug.print cComboSearchFile(Combo1.hWnd, "c:\", "t2win-32.dll")

 $\label{lem:combo} $$ debug.print cComboSearchFileAttrib(Combo1.hWnd, "c:\", "t2win-32.dll", A_ARCHIVE Or A_HIDDEN) $$ debug.print cListSearchDir(List1.hWnd, "c:\", "t2win-32") $$ debug.print cListSearchFile(List1.hWnd, "c:\", "t2win-32.dll") $$ debug.print cListSearchFileAttrib(Combo1.hWnd, "c:\", "t2win-32.dll", A_ARCHIVE Or A_HIDDEN) $$$

See also: List box - combo box

ComboFiles, ListFiles

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ComboFiles fill a Combo Box with files with the specified attribute and mask. ListFiles fill a List Box with files with the specified attribute and mask.

Declare Syntax:

Declare Function cComboFiles Lib "time2win.dll" (ByVal hWnd As Long, ByVal Attributes As Long, ByVal FilePathMask As String) As Integer Declare Function cListFiles Lib "time2win.dll" (ByVal hWnd As Long, ByVal Attributes As Long, ByVal FilePathMask As String) As Integer

Call Syntax :	
Where:	
Comments :	
Examples :	
See also : <u>List box - combo box</u>	

ListSetTabs

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) VB 5.0 VBA 5.0 {Win95/WinNT}, MSOffice 95
Purpose:
ListSetTabs set tabulation in a List Box.
Declare Syntax :
Declare Function cListSetTabs Lib "time2win.dll" (ByVal hWnd As Long, TabArray() As Long) As Integer
Call Syntax :
Where :
Comments :
Examples :
See also: <u>List box - combo box</u>

Task - File version : Overview

<u>ChangeTaskName</u> <u>GetChangeTaskName</u> change the name of the task.

get and change the name of the task.

return a partial information over a specified file. **GetFileVersion**

return a full information over a specified file in one call. <u>GetFileVersionInfo</u>

GetTaskName read the name of the task.

ModuleFind retrieves some parameters for a specified loaded module.

Module retrieves each loaded module one by one.

Process retrieves each process one by one. **Thread** retrieves each thread one by one.

GetFileVersion

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetFileVersion return a partial information over a specified file.

Declare Syntax:

Declare Function cGetFileVersion Lib "time2win.dll" (ByVal filename As String, ByVal nFonction As Integer) As String

Call Syntax:

test\$ = cGetFileVersion(filename, nFonction)

Where:

filename is the file to proceed

<u>nFonction</u> is the partial information to retrieve.

test\$ is the returned information

Comments:

The returned information can be an EMPTY string if the partial informations don't exists.

Examples:

Dim i As Integer Dim Tmp As String

For i = VER_VERSION_PRODUCT To VER_PRODUCT_VERSION
Tmp = Tmp & i & " = " & cGetFileVersion("k:\windows\progman.exe", i) & Chr\$(13)
Next i

MsgBox Tmp

'On my system:

```
'-1 = 3.10.0.103
```

See also: Task - File version

^{&#}x27;0 = 3.10.0.103

^{&#}x27;1 = Microsoft Corporation

^{&#}x27;2 = Windows Program Manager application file

^{&#}x27;3 = 3.10

^{&#}x27;4 = PROGMAN

^{&#}x27;5 = Copyright © Microsoft Corp. 1991-1992

^{&#}x27; 6 =

^{&#}x27;7=

^{&#}x27;8 = Microsoft® Windows(TM) Operating System

GetFileVersionInfo

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

GetFileVersionInfo return a full information over a specified file in one call.

Declare Syntax:

Declare Function cGetFileVersionInfo Lib "time2win.dll" (ByVal filename As String, FILEVERSIONINFO As Any) As Integer

Call Syntax:

test% = cGetFileVersion(filename, FILEVERSIONINFO)

Where:

filename is the file to proceed

FILEVERSIONINFO is a typed variable 'tagFILEVERSIONINFO' which receives the full information

test% TRUE if all is Ok

FALSE if an error has occured

Comments:

Examples:

Dim status As Integer
Dim FILEVERSIONINFO As tagFILEVERSIONINFO

status = cGetFileVersionInfo("k:\windows\system\krnl386.exe", FILEVERSIONINFO)

Debug.Print "FILEVERSIONINFO.VersionProduct = " & FILEVERSIONINFO.VersionProduct

Debug.Print "FILEVERSIONINFO.FileDescription = " & FILEVERSIONINFO.FileDescription

Debug.Print "FILEVERSIONINFO.FileVersion = " & FILEVERSIONINFO.FileVersion

Debug.Print "FILEVERSIONINFO.InternalName = " & FILEVERSIONINFO.InternalName

Debug.Print "FILEVERSIONINFO.LegalCopyright = " & FILEVERSIONINFO.LegalCopyright

Debug.Print "FILEVERSIONINFO.LegalTrademarks = " & FILEVERSIONINFO.LegalTrademarks

Debug.Print "FILEVERSIONINFO.Comments = " & FILEVERSIONINFO.Comments

Debug.Print "FILEVERSIONINFO.ProductName = " & FILEVERSIONINFO.ProductName

Debug.Print "FILEVERSIONINFO.ProductVersion = " & FILEVERSIONINFO.ProductVersion

- 'FILEVERSIONINFO.VersionProduct = 3.11.0.300
- 'FILEVERSIONINFO.FileDescription = Windows Kernel
- 'FILEVERSIONINFO.FileVersion = 3.11
- 'FILEVERSIONINFO.InternalName = KRNL386
- 'FILEVERSIONINFO.LegalCopyright = Copyright © Microsoft Corp. 1991-1993
- 'FILEVERSIONINFO.LegalTrademarks =
- 'FILEVERSIONINFO.Comments =
- 'FILEVERSIONINFO.ProductName = Microsoft® Windows(TM) Operating System
- 'FILEVERSIONINFO.ProductVersion = 3.11

See also: Task - File version

^{&#}x27;On my system:

' definition for file version information

Public Const VER_VERSION_PRODUCT = -1

Public Const VER_VERSION_FILE = 0
Public Const VER_COMPANY_NAME = 1
Public Const VER_FILE_DESCRIPTION = 2
Public Const VER_FILE_VERSION = 3

Public Const VER_INTERNAL_NAME = 4

Public Const VER_LEGAL_COPYRIGHT = 5
Public Const VER_LEGAL_TRADEMARKS = 6

Public Const VER_PRODUCT_NAME = 7

Public Const VER_PRODUCT_VERSION = 8

As String As String As String CompanyName

FileDescription As String
FileVersion As String
As String InternalName

LegalCopyrightAs String

As String
As String
As String
As String
As String LegalTrademarks Comments ProductName ProductVersion

End Type

WalkThruWindow

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

WalkThruWindow walk in the window's list of all windows at a given moment.

Declare Syntax:

Declare Function cWalkThruWindow Lib "time2win.dll" (Class As String, Caption As String, OwnerHwnd As Integer, OwnerClass As String, OwnerCaption As String, ByVal FirstNext As Integer) As Integer

Call Syntax:

hWnd% = cWalkThruWindow(Class\$, Caption\$, OwnerHwnd%, OwnerClass\$, OwnerCaption\$, FirstNext%)

Where:

Class\$ is the returned Name of the Window's Class for the hWnd founded.
Caption\$ is the returned Caption of the Window for the hWnd founded.
OwnerHwnd% is the returned hWnd of the Owner for the hWnd founded

OwnerClass\$ is the returned Name of the Window's Class for the Owner for the hWnd founded.
OwnerCaption\$ is the returned Caption of the Window for the Owner for the hWnd founded.

FirstNext% TRUE to begin the search,

FALSE to continue the search.

hWnd% is the returned hWnd founded.

As Integer

Comments:

Examples:

Dim nhWnd

Dim nClassAs StringDim nCaptionAs StringDim nOwnerClassAs StringDim nOwnerCaptionAs StringDim nOwnerHwndAs Integer

nhWnd = cWalkThruWindow(nClass, nCaption, nOwnerHwnd, nOwnerClass, nOwnerCaption, True)

Do While (nhWnd <> 0)

Debug.Print "Owner = "; Hex\$(nOwnerHwnd) & Chr\$(9) & nOwnerCaption & " (" & nOwnerClass & ")" Debug.Print "Window = "; Hex\$(nhWnd) & Chr\$(9) & nCaption & " (" & nClass & ")" nhWnd = cWalkThruWindow(nClass, nCaption, nOwnerHwnd, nOwnerClass, nOwnerCaption, False)

'Owner = 42A4 Microsoft Visual Basic (ThunderMain)
'Window = 41BC Time To WIN (Demo) (ThunderForm)
'Owner = 42A4 Microsoft Visual Basic (ThunderMain)

' Window = 5878 (ToolsPalette)

'Owner = 42A4 Microsoft Visual Basic (ThunderMain)
'Window = 56D4 TIME2WIN.MAK (PROJECT)

'Owner = 42A4 Microsoft Visual Basic (ThunderMain)
'Window = 5B20 Debug Window [TIME2WIN.FRM] (OFEDT)
'Owner = 42A4 Microsoft Visual Basic (ThunderMain)

^{&#}x27; Part of the output on my system :

'Window = 48AC Microsoft Visual Basic [run] (wndclass_desked_gsk)
'Owner = 4A68 Properties (wndclass_pbrs)
'Window = 59A8 (CBar)
'Owner = 42A4 Microsoft Visual Basic (ThunderMain)
'Window = 4A68 Properties (wndclass_pbrs)
'Owner = 42A4 Microsoft Visual Basic (ThunderMain)
'Window = 5928 (CPal)
'Owner = 0 ()
'Window = 42A4 Microsoft Visual Basic (ThunderMain)

See also : Windows

ModuleFind

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ModuleFind retrieve some parameters for a specified loaded module.

Declare Syntax:

Declare Function cModuleFind Lib "time2win.dll" (MODULEENTRY As Any, ByVal ModuleName As String) As Integer

Call Syntax:

test% = cModuleFind(MODULEENTRY, ModuleName)

Where:

ModuleName is the module to proceed

MODULEENTRY is the type'd variable 'tagMODULEENTRY' which receives the parameters.

test% TRUE if all is Ok

FALSE if an error has occured

Comments:

dwSize Specifies the size of the MODULEENTRY structure, in bytes. szModule Specifies the null-terminated string that contains the module name.

hModule Identifies the module handle.

wcUsage Specifies the reference count of the module. This is the same number returned by the

GetModuleUsage function.

szExePath Specifies the null-terminated string that contains the fully-qualified executable path for the module. wNext Specifies the next module in the module list. This member is reserved for internal use by Windows.

Examples:

Dim status As Integer

Dim MODULEENTRY As tagMODULEENTRY

status = cModuleFind(MODULEENTRY, "KERNEL")

Debug.Print "MODULEENTRY.dwSize = " & MODULEENTRY.dwSize Debug.Print "MODULEENTRY.szModule = " & MODULEENTRY.szModule Debug.Print "MODULEENTRY.hModule = " & MODULEENTRY.hModule Debug.Print "MODULEENTRY.wcUsage = " & MODULEENTRY.wcUsage Debug.Print "MODULEENTRY.szExePath = " & MODULEENTRY.szExePath Debug.Print "MODULEENTRY.wNext = " & MODULEENTRY.wNext

See also: Task - File version

^{&#}x27;On my system:

^{&#}x27;MODULEENTRY.dwSize = 276

^{&#}x27; MODULEENTRY.szModule = KERNEL

^{&#}x27; MODULEENTRY.hModule = 295

^{&#}x27;MODULEENTRY.wcUsage = 44

^{&#}x27;MODULEENTRY.szExePath = K:\WIN95\SYSTEM\KRNL386.EXE

^{&#}x27;MODULEENTRY.wNext = 279

Module, Process, Thread

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

Module enumerates the modules residing in the system address space. Process enumerates the processes residing in the system address space. Thread enumerates the threads residing in the system address space.

Declare Syntax:

Declare Function cModule Lib "t2w32mpt.dll" (MODULEENTRY As tagMODULEENTRY, ByVal FirstNext As Integer) As Integer

Declare Function cProcess Lib "t2w32mpt.dll" (PROCESSENTRY As taqPROCESSENTRY, ByVal FirstNext As Integer) As Integer

Declare Function cThread Lib "t2w32mpt.dll" (THREADENTRY As tagTHREADENTRY, ByVal FirstNext As Integer) As Integer

Call Syntax:

intResult% = cModule(MODULEENTRY, FirstNext%) intResult% = cProcess(PROCESSENTRY, FirstNext%) intResult% = cThread(THREADENTRY, FirstNext%)

Where:

MODULEENTRY is the type'd variable 'tagMODULEENTRY' which receives the parameters.

FirstNext% TRUE for the first module/process/thread

FALSE for each next module/process/thread

intResult% TRUE if all is Ok

FALSE if an error has occured or if no more modules.

Comments:

For MODULEENTRY:

dwSize Specifies the size of the MODULEENTRY structure, in bytes. Specifies the null-terminated string that contains the module name. szModule

hModule Identifies the module handle.

Specifies the reference count of the module. This is the same number returned by the wcUsage

GetModuleUsage function.

szExePath Specifies the null-terminated string that contains the fully-qualified executable path for the module. wNext Specifies the next module in the module list. This member is reserved for internal use by Windows.

For PROCESSENTRY:

dwSize Specifies the size of the PROCESSENTRY structure, in bytes.

cntUsage Number of references to the process. A process exists as long as its usage count is nonzero. As soon

as its usage count becomes zero, a process terminates.

Identifier of the process. The contents of this member can be used by Win32 API elements. th32ProcessID th32DefaultHeapID Identifier of the default heap for the process. The contents of this member has meaning only to the tool help functions. It is not a handle, nor is it usable by Win32 API elements.

th32ModuleID

Module identifier of the process. The contents of this member has meaning only to the tool help

functions. It is not a handle, nor is it usable by Win32 API elements.

Number of execution threads started by the process. cntThreads

th32ParentProcessID Identifier of the process that created the process being examined. The contents of this member can

be used by Win32 API elements.

pcPriClassBase Base priority of any threads created by this process.

dwFlags Reserved; do not use.

szExeFile Path and filename of the executable file for the process.

For THREADENTRY:

dwSize Specifies the size of the THREADENTRY structure, in bytes.

cntUsage Number of references to the thread. A thread exists as long as its usage count is nonzero. As soon as

its usage count becomes zero, a thread terminates.

th32ThreadID Identifier of the thread. This identifier is compatible with the thread identifier returned by the

CreateProcess function.

th32OwnerProcessID API elements.

tpBasePri

Identifier of the process that created the thread. The contents of this member can be used by Win32

Initial priority level assigned to a thread. These values are defined:

THREAD_PRIORITY_IDLE Indicates a base priority level of 1 for IDLE_PRIORITY_CLASS, NORMAL_PRIORITY_CLASS, or HIGH_PRIORITY_CLASS processes,

and a base priority level of 16 for REALTIME_PRIORITY_CLASS processes.

THREAD_PRIORITY_LOWEST Indicates 2 points below normal priority for the

priority class.

. THREAD_PRIORITY_BELOW_NORMAL Indicates 1 point below normal priority for the

priority class.

THREAD_PRIORITY_NORMAL Indicates normal priority for the priority class. THREAD_PRIORITY_ABOVE_NORMAL Indicates 1 point above normal priority for the

priority class.

THREAD_PRIORITY_HIGHEST Indicates 2 points above normal priority for the

priority class.

THREAD PRIORITY TIME CRITICAL Indicates a base priority level of 15 for

IDLE_PRIORITY_CLASS, NORMAL_PRIORITY_CLASS, or HIGH_PRIÓRITY_CLASS processes,

and a base priority level of 31 for REALTIME_PRIORITY_CLASS processes.

tpDeltaPri

Change in the priority level of a thread. This value is a signed delta from the base priority level

assigned to the thread.

dwFlags Reserved; do not use.

Examples:

see samples in the demo.

See also: Task - File version

Tasks

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Tasks retrieves all tasks currently in memory.

Declare Syntax:

Declare Function cTasks Lib "time2win.dll" (TASKENTRY As Any, ByVal firstnext As Integer) As Integer

Call Syntax:

test% = cTasks(TASKENTRY, firstnext)

Where:

TASKENTRY is the typed variable which receives the parameters 'tagTASKENTRY'

firstnext TRUE for the first module

FALSE for each next module

test% TRUE if all is Ok

FALSE if an error has occured or if no more tasks

Comments:

The hTask parameter is the task number founded by the cModuleFind or cModules functions.

dwSize Specifies the size of the TASKENTRY structure, in bytes.

hTask Identifies the task handle for the stack. hTaskParent Identifies the parent of the task.

hInst Identifies the instance handle of the task. This value is equivalent to the task's DGROUP segment

selector.

hModule Identifies the module that contains the currently executing function.

wSS Contains the value in the SS register. wSP Contains the value in the SP register.

wStackTop Specifies the offset to the top of the stack (lowest address on the stack).
wStackMinimum Specifies the lowest segment number of the stack during execution of the task.
wStackBottom Specifies the offset to the bottom of the stack (highest address on the stack).

wcEvents Specifies the number of pending events.

hQueue Identifies the task queue.

szModule Specifies the name of the module that contains the currently executing function.

wPSPOffset Specifies the offset from the program segment prefix (PSP) to the beginning of the executable code

segment.

hNext Identifies the next entry in the task list. This member is reserved for internal use by Windows.

Examples:

Dim status As Integer

Dim TASKENTRY As tagTASKENTRY

Close #1

Open "c:\tmp.tmp" For Output Shared As #1

Print #1, "dwSize"; Chr\$(9); Print #1, "hTask"; Chr\$(9);

Print #1, "hTaskParent"; Chr\$(9);

Print #1, "hInst"; Chr\$(9);

Print #1, "hModule"; Chr\$(9);

Print #1, "wSS"; Chr\$(9);

Print #1, "wSP"; Chr\$(9);

```
Print #1, "wStackTop"; Chr$(9);
Print #1, "wStackMinimum"; Chr$(9);
Print #1, "wStackBottom"; Chr$(9);
Print #1, "wcEvents"; Chr$(9);
Print #1, "hQueue"; Chr$(9);
Print #1, "szModule"; Chr$(9);
Print #1, "wPSPOffset"; Chr$(9);
Print #1, "hNext"; Chr$(13)
status = cTasks(TASKENTRY, True)
Do While (status = True)
  Print #1, TASKENTRY.dwSize; Chr$(9);
  Print #1, TASKENTRY.hTask; Chr$(9);
  Print #1, TASKENTRY.hTaskParent; Chr$(9);
  Print #1, TASKENTRY.hInst; Chr$(9);
  Print #1, TASKENTRY.hModule; Chr$(9);
  Print #1, TASKENTRY.wSS; Chr$(9);
  Print #1, TASKENTRY.wSP; Chr$(9);
  Print #1, TASKENTRY.wStackTop; Chr$(9);
  Print #1, TASKENTRY.wStackMinimum; Chr$(9);
  Print #1, TASKENTRY.wStackBottom; Chr$(9);
  Print #1, TASKENTRY.wcEvents; Chr$(9);
  Print #1, TASKENTRY.hQueue; Chr$(9);
  Print #1, TASKENTRY.szModule; Chr$(9);
  Print #1, TASKENTRY.wPSPOffset; Chr$(9);
  Print #1, TASKENTRY.hNext
  status = cTasks(TASKENTRY, False)
Loop
Close #1
```

On my system :

dwSize	hTask wStack	hTaskPa Bottom	arent wcEven			ewSS szModu		wStack1 wPSPO		wStackl hNext	Minimum
40	4231 27076	1783	0	8246	4367 8263	ICONBA	8247	-27238 8279	30418	4439	-28190
40	4439	1783		4398	4463		4399	5850	1022		5992
40	5992 16279	4231	0	15878	4471 16295	WINEX	15879	4447 -4188	-23384	16279 -	10032
40	-4054 2087	1783	0	8030	16255 2095	MSVC	8031	16271 29198	9004	2087	29334
	29334		0		8047	FASTLO	DAD	8063		1783	
40	1783 8304	335	0	5846	1799 2079	PROGN	5847 1AN	8202 791	2358	7007	5950
40	7007 -23562	4231	1	9926	6767 6879	FOREH	9927 ELP	-23760 6903	13124	4431	23498
40	4431	1783		4278	4455		4279	7654	2844		6998
40	7814 12127 28672	1783	0	9022	4359 12143 9039	FREEM VB	EM 9023	4375 -29164	16534 9231	12127	-31948 0

See also: Task - File version

TaskFind

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

TaskFind retrieve some parameters for a specified loaded task.

Declare Syntax:

Declare Function cTaskFind Lib "time2win.dll" (TASKENTRY As Any, ByVal hTask As Integer) As Integer

Call Syntax:

test% = cTaskFind(TASKENTRY, hTask)

Where:

hTask is the task number

TASKENTRY is the typed variable which receives the parameters 'tagTASKENTRY'

test% TRUE if all is Ok

FALSE if an error has occured

Comments:

The hTask parameter is the task number founded by the cModuleFind or cModules functions.

dwSize Specifies the size of the TASKENTRY structure, in bytes.

hTask Identifies the task handle for the stack. hTaskParent Identifies the parent of the task.

hInst Identifies the instance handle of the task. This value is equivalent to the task's DGROUP segment

selector.

hModule Identifies the module that contains the currently executing function.

wSS Contains the value in the SS register. wSP Contains the value in the SP register.

wStackTop Specifies the offset to the top of the stack (lowest address on the stack).
wStackMinimum Specifies the lowest segment number of the stack during execution of the task.
wStackBottom Specifies the offset to the bottom of the stack (highest address on the stack).

wcEvents Specifies the number of pending events.

hQueue Identifies the task queue.

szModule Specifies the name of the module that contains the currently executing function.

wPSPOffset Specifies the offset from the program segment prefix (PSP) to the beginning of the executable code

segment.

hNext Identifies the next entry in the task list. This member is reserved for internal use by Windows.

Examples:

Dim status As Integer

Dim MODULEENTRY As tagMODULEENTRY

status = cModuleFind(MODULEENTRY, "KERNEL")

Debug.Print "MODULEENTRY.dwSize = " & MODULEENTRY.dwSize Debug.Print "MODULEENTRY.szModule = " & MODULEENTRY.szModule Debug.Print "MODULEENTRY.hModule = " & MODULEENTRY.hModule Debug.Print "MODULEENTRY.wcUsage = " & MODULEENTRY.wcUsage Debug.Print "MODULEENTRY.szExePath = " & MODULEENTRY.szExePath

Debug.Print "MODULEENTRY.wNext = " & MODULEENTRY.wNext

^{&#}x27;On my system:

- 'MODULEENTRY.dwSize = 276
- ' MODULEENTRY.szModule = KERNEL

- 'MODULEENTRY.hModule = 295
 'MODULEENTRY.wcUsage = 44
 'MODULEENTRY.szExePath = K:\WIN95\SYSTEM\KRNL386.EXE
- 'MODULEENTRY.wNext = 279

See also: Task - File version

' structure for modules
Type tagMODULEENTRY
dwSize
th32ModuleID As Long As Long

th32ProcessID As Long

As Long As Long As Byte As Long As Long As String * 256 As String * 260 GlblcntUsage ProccntUsage modBaseAddr modBaseSize hModule szModule

szExePath

End Type

'constants for Mime Headers in cMNEncode
Public Const UUVBE_NONE = 0
Public Const UUVBE_SIMPLE = 1
Public Const UUVBE_MAIL = 2
Public Const UUVBE_NEWS = 3

- ' No MIME headers (use standard headers)
 ' Simple MIME (no addressing)
 ' MIME E-mail format
- ' MIME News format

FilesInfoInDir

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FilesInfoInDir retrieve each file in the specified directory and returns name, size, Int date, Int time, attribute.

Declare Syntax:

Declare Function cFilesInfoInDir Lib "time2win.dll" (ByVal nDir As String, FILEINFO As tagFILEINFO, ByVal FirstNext As Integer) As String

Call Syntax:

test\$ = cFilesInfoInDir(nDir, FI, firstnext)

Where:

nDir the directory to proceed with the file mask (*.* for all)

FI the type'd variable 'tagFILEINFO'.

firstnext TRUE for the first file

FALSE for each next file

test\$ the returned file

Comments:

If the nDir is invalid or if an error occurs when accessing a file, the returned filename is an empty string and all subvariables in the type'd variable are -1.

Examples:

```
Dim i
                 As Integer
Dim Tmp
                 As String
Dim FI
                 As tagFILEINFO
i = 0
Tmp = cFilesInfoInDir("c:\*.*", FI, True)
Debug.Print "The first 7 files in C:\ are: "
Do While (Len(Tmp) > 0)
  Debug.Print Tmp & ", " & Fl.fSize & ", " & Fl.fDate & ", " & Fl.fTime & ", " & Fl.fAttribute
  Tmp = cFilesInfoInDir("c:\*.*", FI, False)
  i = i + 1
  If (i >= 7) Then Exit Do
Loop
'On my system:
'The first 7 files in C:\ are:
  'SUHDLOG.DAT, 5166, 728480, 76033, 3
  'BOOTLOG.TXT, 22886, 728480, 78500, 2
  'MSDOS.---, 22, 728480, 75079, 2
  'DBLSPACE.001, 79036439, 728519, 48662, 7
  'SYSTEM.1ST, 230144, 728480, 76027, 7
  'WINA20.386, 9349, 727632, 21600, 0
  'AUTOEXEC.BAK, 968, 728456, 78015, 0
```

See also: File

' structure for File Information
Type tagFILEINFO
fSize As Long
fDate As Long
fTime As Long
fAttribute As Integer 'size of the file 'date of the file (Int date) 'time of the file (Int time) 'attribute of the file fAttribute End Type

CenterWindow

 $\textbf{QuickInfo:} \ \ \text{VB 3.0, VB 4.0 (16-Bit), } \ \ \underline{\text{VB 4.0 (32-Bit)}} \ \ \underline{\text{VB 5.0 | VBA 5.0 \{Win95/WinNT\}}}, \ \ \text{MSOffice 95}$

Purp	ose:	•
------	------	---

CenterWindow center a window in the screen.

Declare Syntax:

Declare Sub cCenterWindow Lib "time2win.dll" (ByVal hWnd As Long)

Call Syntax :

Call cCenterWindow(hWnd%)

Where:

hWnd% is the handle of a form.

Comments:

Examples:

Call cCenterWindow(Form1.hWnd)

See also : Windows

ArrangeDesktopIcons QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

See also : Windows

QUICKING: VB 0.0, VB 1.0 (10 Bit), <u>VB 1.0 (02 Bit) VB 0.0 VB 1.0 (11 Bit) </u> , Meenine 0
Purpose :
ArrangeDesktopIcons arrange all desktop icons.
Declare Syntax :
Declare Sub cArrangeDesktopIcons Lib "time2win.dll" ()
Call Syntax :
Call cArrangeDesktopIcons()
Where :
Comments :
Examples :

GetBitX

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetBitB return if a given bit in a given BYTE is Set or Reset. GetBitD return if a given bit in a given DOUBLE is Set or Reset. GetBitl return if a given bit in a given INTEGER is Set or Reset. GetBitL return if a given bit in a given LONG is Set or Reset. GetBitS return if a given bit in a given SINGLE is Set or Reset.

Declare Syntax:

Declare Function cGetBitB Lib "time2win.dll" (ByVal Value As Byte, ByVal Position As Integer) As Integer Declare Function cGetBitD Lib "time2win.dll" (ByVal Value As Double, ByVal Position As Integer) As Integer Declare Function cGetBitl Lib "time2win.dll" (ByVal Value As Integer, ByVal Position As Integer) As Integer Declare Function cGetBitL Lib "time2win.dll" (ByVal Value As Long, ByVal Position As Integer) As Integer Declare Function cGetBitS Lib "time2win.dll" (ByVal Value As Single, ByVal Position As Integer) As Integer

Call Syntax:

test% = cGetBitB(Value, Position) test% = cGetBitD(Value, Position) test% = cGetBitI(Value, Position) test% = cGetBitL(Value, Position) test% = cGetBitS(Value, Position)

Where:

Value the value to proceed Position the bit position TRUE if the bit is Set test

FALSE if the bit is Reset

Comments:

The first bit in the value is the bit 0.

See also: Binary

GetCurrentDrive

 $\textbf{QuickInfo:} \ \ VB \ \ 3.0, \ \ VB \ \ 4.0 \ \ (16\text{-Bit}), \ \ \underline{VB \ 4.0 \ \ (32\text{-Bit}) \ | \ VB \ 5.0 \ | \ VBA \ 5.0 \ \ \{Win95/WinNT\}, \ \ MSOffice \ 95$

Purpose	•
---------	---

GetCurrentDrive return the current default drive.

Declare Syntax:

Declare Function cGetCurrentDrive Lib "time2win.dll" () As String

Call Syntax:

test\$ = cGetCurrentDrive()

Where:

test\$ the drive in a letter

Comments:

Examples:

See also : Windows

EnumOpenFiles

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

EnumOpenFiles enumerate all open files and/or all unmovable open files.

Declare Syntax:

Declare Function cEnumOpenFiles Lib "time2win.dll" (ByVal nDrive As String, ByVal EnumType As Integer, ByVal FirstNext As Integer, OpenFileName As String, OpenFileMode As Long, OpenFileType As Long) As Integer

Call Syntax:

intResult% = cEnumOpenFiles(nDrive\$, EnumType%, FirstNext%, OpenFileName\$, OpenFileMode%, OpenFileType %)

Where:

OpenFileName\$

nDrive\$ is the drive letter on which you want to search open files. (use "" for the current drive).

EnumType% ENUMERATE_ALL_OPEN_FILES

ENUMERATE_ONLY_OPEN_UNMOVABLE_FILES

FirstNext% True : to search the first open file

False: to search the next open file is the returned open file name. is the returned open file mode.

OpenFileMode& is the returned open file mode openFileType& is the returned open file type.

intResult% NO ERROR OPEN FILES

NO MORE OPEN FILES

ERROR_LOCK_LOGICAL_VOLUME ERROR_ENUMERATE_OPEN_FILES ERROR_UNLOCK_LOGICAL_VOLUME

Kind of file to enumerate. This parameter can be ENUMERATE_ALL_OPEN_FILES to enumerate all open files or ENUMERATE_ONLY_OPEN_UNMOVABLE_FILES to enumerate only open unmovable files, including open memory-mapped files and other open unmovable files (32-bit Windows-based DLLs and executables). : to enumerate all open files

Comments:

About Returned Value:

NO_ERROR_OPEN_FILES: no error, you can continue the enumeration of open files. NO_MORE_OPEN_FILES: no more open files, the enumeration is finish. ERROR_LOCK_LOGICAL_VOLUME: can't lock the logical volume. ERROR_ENUMERATE_OPEN_FILES: error when enumerating open files. ERROR_UNLOCK_LOGICAL_VOLUME: can't unlock the logical volume.

About EnumType:

Kind of file to enumerate. This parameter can be ENUMERATE_ALL_OPEN_FILES to enumerate all open files or ENUMERATE_ONLY_OPEN_UNMOVABLE_FILES to enumerate only open unmovable files, including open memory-mapped files and other open unmovable files (32-bit Windows-based DLLs and executables).

About OpenFileMode:

Mode that the file was opened in, which is a combination of access mode, sharing mode, and open flags. It can be one value each from the access and sharing modes and any combination of open flags.

Access modes

```
OPEN_ACCESS_READONLY (0000h)
OPEN_ACCESS_WRITEONLY (0001h)
OPEN_ACCESS_READWRITE (0002h)
OPEN_ACCESS_RO_NOMODLASTACCESS (0004h)
```

Share modes

```
OPEN_SHARE_COMPATIBLE (0000h)
OPEN_SHARE_DENYREADWRITE (0010h)
OPEN_SHARE_DENYWRITE (0020h)
OPEN_SHARE_DENYREAD (0030h)
OPEN_SHARE_DENYNONE (0040h)
```

Open flags

```
OPEN_FLAGS_NOINHERIT (0080h)
OPEN_FLAGS_NO_BUFFERING (0100h)
OPEN_FLAGS_NO_COMPRESS (0200h)
OPEN_FLAGS_ALIAS_HINT (0400h)
OPEN_FLAGS_NOCRITERR (2000h)
OPEN_FLAGS_COMMIT (4000h)
```

About OpenFileType:

- 0 For normal files
- 1 For a memory-mapped files (memory-mapped files are unmovable)
- 2 For any other unmovable files (32-bit Windows-based DLLs and executables)
- 4 For the swap file

Note that if a memory-mapped file is returned (OpenFileType = 1), the value returned in OpenFileMode is limited to the following values:

```
OPEN_ACCESS_READONLY (0000h)
OPEN_ACCESS_READWRITE (0002h)
```

Examples:

Dim intResult As Integer
Dim OpenFileName As String
Dim OpenFileMode As Long
Dim OpenFileType As Long

intResult = cEnumOpenFiles("C", ENUMERATE_ALL_OPEN_FILES, True, OpenFileName, OpenFileMode, OpenFileType)

```
While (intResult = NO_ERROR_OPEN_FILES)
Debug.Print intResult, OpenFileName, OpenFileMode, OpenFileType
intResult = cEnumOpenFiles("C", ENUMERATE_ALL_OPEN_FILES, False, OpenFileName, OpenFileMode,
OpenFileType)
Wend
```

intResult = cEnumOpenFiles("D", ENUMERATE_ALL_OPEN_FILES, True, OpenFileName, OpenFileMode, OpenFileType)

```
While (intResult = NO_ERROR_OPEN_FILES)
```

```
Debug.Print intResult, OpenFileName, OpenFileMode, OpenFileType
intResult = cEnumOpenFiles("D", ENUMERATE_ALL_OPEN_FILES, False, OpenFileName, OpenFileMode,
OpenFileType)
Wend

intResult = cEnumOpenFiles("E", ENUMERATE_ALL_OPEN_FILES, True, OpenFileName, OpenFileMode,
OpenFileType)

While (intResult = NO_ERROR_OPEN_FILES)
Debug.Print intResult, OpenFileName, OpenFileMode, OpenFileType
intResult = cEnumOpenFiles("E", ENUMERATE_ALL_OPEN_FILES, False, OpenFileName, OpenFileMode,
OpenFileType)
Wend
```

See also : File

DESencrypt, DESdecrypt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

DESencrypt encode a string with a password using the U.S. Data Encryption Standard cipher. DESdecrypt decode a string with a password using the U.S. Data Encryption Standard cipher.

Declare Syntax:

Declare Function cDESencrypt Lib "time2win.dll" (Text As String, Key As String) As String Declare Function cDESdecrypt Lib "time2win.dll" (Text As String, Key As String) As String

Call Syntax:

```
testE = cDESencrypt(Text, Key)
testD = cDESdecrypt(Text, Key)
```

Where:

Text is the string to encrypt/decrypt

Key is the key to use for encryption/decryption

test is the string encrypted/decrypted

Comments:

The Key is case sensitive.

The length of Text can be any size.

The length of Key must be greater or equal to 8 characters.

The encrypted string is always a multiple of 8 characters + 1 character.

Examples:

Dim Text As String Dim Key As String

Dim Enc As String Dim Dec As String

Text = "Under the blue sky, the sun is yellow"

Key = "a new encryption"

Enc = cDESencrypt(Text, Key)

Dec = cDESdecrypt(Enc, Key)

See also: Encryption

IDEAencrypt, IDEAdecrypt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

IDEAencrypt encode a string with a password using the International Data Encryption Algorithm cipher. IDEAdecrypt decode a string with a password using the International Data Encryption Algorithm cipher.

Declare Syntax:

Declare Function cIDEAencrypt Lib "time2win.dll" (Text As String, Key As String) As String Declare Function cIDEAdecrypt Lib "time2win.dll" (Text As String, Key As String) As String

Call Syntax:

testE = cIDEAencrypt(Text, Key)
testD = cIDEAdecrypt(Text, Key)

Where:

Text is the string to encrypt/decrypt

Key is the key to use for encryption/decryption

test is the string encrypted/decrypted

Comments:

The Key is case sensitive.

The length of Text can be any size.

The length of Key must be greater or equal to 16 characters.

The encrypted string is always a multiple of 8 characters + 1 character.

Examples:

Dim Text As String

Dim Key As String

Dim Enc As String

Dim Dec As String

Text = "Under the blue sky, the sun is yellow"

Key = "a new encryption"

Enc = cIDEAencrypt(Text, Key)

Dec = cIDEAdecrypt(Enc, Key)

See also: Encryption

LZARIcompress, LZARIexpand

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

LZARIcompress compress a file into a compressed format using arithmetic compression. LZARIexpand expand a compressed file into a normal format using arithmetic compression.

Declare Syntax:

Declare Function cLZARIcompress Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String) As Long Declare Function cLZARIexpand Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String) As Long

Call Syntax:

```
Test& = cLZARIcompress(FileIn$, FileOut$)
Test& = cLZARIexpand(FileIn$, FileOut$)
```

Where:

FileIn\$ is the original/compressed file.
FileOut\$ is the compressed/original file.
Test& <0, an error has occured.

>=0, the length of the created file.

Comments:

The following constants are used to explain the error code:

```
Public Const CMPEXP FILEIN CANT BE NULL = -1
```

'occurs when the FileIn is an empty string

Public Const CMPEXP_FILEOUT_CANT_BE_NULL = -2

'occurs when the FileOut is an empty string

Public Const CMPEXP_FILEIN_AND_FILEOUT_CANT_BE_THE_SAME = -3

'occurs when the FileIn and FileOut are the same

Public Const CMPEXP FILEIN CANT BE OPENED = -4

' occurs when the FileIn can't be opened (not valid, not exist or disk error)

Public Const CMPEXP FILEOUT CANT BE CREATED = -5

'occurs when the FileOut can't be created (not valid or disk error)

Public Const CMPEXP_COMPRESS_OR_EXPAND_ERROR = -6

'occurs when compressiion or expansion can't be performed (disk error)

Public Const CMPEXP CANT GET FILEOUT SIZE = -7

'occurs when the length of FileOut can be read (disk error)

Examples:

Dim FileIn As String
Dim FileOut As String
Dim FileOut2 As String
Dim LengthIn As Long
Dim LengthOut As Long

FileIn = "c:\win95\system\msjt3032.dll"

FileOut = "c:\tmp\test.ari"

FileOut = "c:\tmp\test.unari"

LengthOut = cLZARIcompress(FileIn, FileOut) LengthIn = cLZARIexpand(FileOut, FileOut2) See also: Compression

DIAMONDencrypt, DIAMONDdecrypt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

DIAMONDencrypt encode a string with a password using the Diamond Encryption Algorithm (4 modes). DIAMONDdecrypt decode a string with a password using the Diamond Encryption Algorithm (4 modes).

Declare Syntax:

Declare Function cDIAMONDencrypt Lib "time2win.dll" (Text As String, Key As String, ByVal Mode As Integer) As String

Declare Function cDIAMONDdecrypt Lib "time2win.dll" (Text As String, Key As String, ByVal Mode As Integer) As String

Call Syntax:

```
testE = cDIAMONDencrypt(Text, Key)
testD = cDIAMONDdecrypt(Text, Key)
```

Where:

Text is the string to encrypt/decrypt

Key is the key to use for encryption/decryption

Mode Public Const DIAMOND_FULL_MODE1 = 1 ' more strongest (slowest)

Public Const DIAMOND_FULL_MODE2 = 3 'more strong (slow)
Public Const DIAMOND_LITE_MODE1 = 2 'strongest (fast)
Public Const DIAMOND_LITE_MODE2 = 4 'strong (fastest)

test is the string encrypted/decrypted

Comments:

The Key is case sensitive.

The length of Text can be any size.

The length of Key must be greater or equal to 5 characters (best result with a key of 16 characters or more). In FULL MODE, the length of the encrypted string is always a multiple of 16 characters + 1 character. In LITE MODE, the length of the encrypted string is always a multiple of 8 characters + 1 character.

Examples:

Dim Text As String
Dim Key As String
Dim Enc As String
Dim Dec As String

Text = "Under the blue sky, the sun is yellow" Key = "a new encryption"

Enc = cDIAMONDencrypt(Text, Key, DIAMOND_FULL_MODE1)
Dec = cDIAMONDdecrypt(Enc, Key, DIAMOND_LITE_MODE1)

See also: Encryption

GZIPFileCompress, GZIPFileExpand

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GZIPFileCompress compress a file into a compressed format using GZIP compression method. GZIPFileExpand expand a compressed file into a normal format using GZIP compression method.

Declare Syntax:

Declare Function cGZIPFileCompress Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String) As Long Declare Function cGZIPFileExpand Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String) As Long

Call Syntax:

```
Test& = cGZIPFileCompress(FileIn$, FileOut$)
Test& = cGZIPFileExpand(FileIn$, FileOut$)
```

Where:

FileIn\$ is the original/compressed file.
FileOut\$ is the compressed/original file.
Test& <0, an error has occured.

>=0, the length of the created file.

Comments:

The following constants are used to explain the error code:

```
Public Const CMPEXP FILEIN CANT BE NULL = -1
```

'occurs when the FileIn is an empty string

Public Const CMPEXP_FILEOUT_CANT_BE_NULL = -2

'occurs when the FileOut is an empty string

Public Const CMPEXP_FILEIN_AND_FILEOUT_CANT_BE_THE_SAME = -3

'occurs when the FileIn and FileOut are the same

Public Const CMPEXP FILEIN CANT BE OPENED = -4

'occurs when the FileIn can't be opened (not valid, not exist or disk error)

Public Const CMPEXP_FILEOUT_CANT_BE_CREATED = -5

' occurs when the FileOut can't be created (not valid or disk error)

Public Const CMPEXP_COMPRESS_OR_EXPAND_ERROR = -6

' occurs when compressiion or expansion can't be performed (disk error)

Public Const CMPEXP_CANT_GET_FILEOUT_SIZE = -7

'occurs when the length of FileOut can be read (disk error)

Examples:

Dim FileIn As String
Dim FileOut As String
Dim FileOut2 As String
Dim LengthIn As Long
Dim LengthOut As Long

FileIn = "c:\win95\system\msjt3032.dll"

FileOut = "c:\tmp\test.gzi"

FileOut = "c:\tmp\test.ugz"

LengthOut = cGZIPFileCompress(FileIn, FileOut) LengthIn = cGZIPFileExpand(FileOut, FileOut2) See also: Compression

DisplaySplash, DestroySplash

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

DisplaySplash display a bitmap as splash screen.

DestroySplash destroy a bitmap displayed by DisplaySplash.

Declare Syntax:

Declare Function cDisplaySplash Lib "time2win.dll" (ByVal lpFilename As String, ByVal MinimumTimeToStay As Integer, ByVal AutoDestruction As Integer) As Long Declare Function cDestroySplash Lib "time2win.dll" (ByVal hWnd As Long) As Integer

Call Syntax:

hWnd& = cDisplaySplash(lpFileName\$, MinimumTimeToStay%) intResult% = cDestroySplash(hWnd&)

Where:

lpFileName\$ is the name of the file to read the DDB (Device-Dependent Bitmap) or DIB (Device-

Independent Bitmap).

MinimumTimeToStay% is the minimum time (in milliseconds) that the bitmap is displayed on the screen.

AutoDestruction%

TRUE: the splash bitmap is automatically destroyed after that the MinimumTimeToStay is

reached.

FALSE: the splash bitmap is NOT automatically destroyed after that the

MinimumTimeToStay is reached.

hWnd& is the return hWnd value of the windows containing the bitmap (used by DestroySplash).

intResult% TRUE: all is OK (destroy is successfull).

FALSE: an error has occured when destroying the windows containing the bitmap.

Comments:

If MinimumTimeToStay is set to 0, the splash screen is always displayed until you call cDestroySplash function. If AutoDestruction is set to FALSE, you MUST CALL the cDestroySplash function to destroy the splash screen.

Examples:

With AutoDestruction set to FALSE:

Dim hWnd As Long Dim intResult As Integer

hWnd = cDisplaySplash(App.Path + "\time2win.dib", 7000, False)

intResult = cDestroySplash(hWnd)

With AutoDestruction set to TRUE:

Dim hWnd As Long

hWnd = cDisplaySplash(App.Path + "\time2win.dib", 7000, True)

^{&#}x27;some codes

^{&#}x27;some initializations

^{&#}x27;some codes

'some initializations

See also : $\underline{\text{Bitmap}}$

GetAllSettings

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetAllSettings returns a list of key settings and their respective values from an application's entry in the registry.

Declare Syntax:

Declare Function cGetAllSettings Lib "time2win.dll" (Strarray() As String, ByVal lpSection As String) As Integer

Call Syntax:

test% = cGetAllSettings(Strarray(), IpSection\$)

Where:

Strarray() is the array to receive the list (must be a two-dimensionnal array in the form Strarray(1 to X, 1 to

2)).

lpSection\$ string expression containing the name of the section where the key setting is being saved.

test% >0 : the number of elements

<0 : see error code

Comments:

If the array is too bigger, the non-necessary element are set to empty.

Examples:

Dim Strarray(1 To 7, 1 To 2) As String

Debug.Print cGetAllSettings(Strarray(), "Software\VB and VBA Program Settings\MyApp\Startup")

Debug.Print Strarray(1, 1), Strarray(1, 2)

Debug.Print Strarray(2, 1), Strarray(2, 2)

Debug.Print Strarray(3, 1), Strarray(3, 2)

Debug.Print Strarray(4, 1), Strarray(4, 2)

Debug.Print Strarray(5, 1), Strarray(5, 2)

See also: Registry key

ASHFileCompress, ASHFileExpand

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ASHFileCompress compress a file into a compressed format using ASH arithmetic compression. ASHFileExpand expand a compressed file into a normal format using ASH arithmetic compression.

Declare Syntax:

Declare Function cASHFileCompress Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, ByVal Order As Integer) As Long

Declare Function cASHFileExpand Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, ByVal Order As Integer) As Long

Call Syntax:

```
Test& = cASHFileCompress(FileIn$, FileOut$)
Test& = cASHFileExpand(FileIn$, FileOut$)
```

Where:

FileIn\$ is the original/compressed file.
FileOut\$ is the compressed/original file.
Order% is the compression order form 0 to 9.

Test& <0, an error has occured.

>=0, the length of the created file.

Comments:

The ASH compression method is very performant but is very slow. Use with care on large files.

The following constants are used to explain the error code:

Public Const CMPEXP_FILEIN_CANT_BE_NULL = -1

'occurs when the FileIn is an empty string

Public Const CMPEXP_FILEOUT_CANT_BE_NULL = -2

' occurs when the FileOut is an empty string

Public Const CMPEXP_FILEIN_AND_FILEOUT_CANT_BE_THE_SAME = -3

'occurs when the FileIn and FileOut are the same

Public Const CMPEXP_FILEIN_CANT_BE_OPENED = -4

' occurs when the FileIn can't be opened (not valid, not exist or disk error)

Public Const CMPEXP_FILEOUT_CANT_BE_CREATED = -5

'occurs when the FileOut can't be created (not valid or disk error)

Public Const CMPEXP COMPRESS OR EXPAND ERROR = -6

' occurs when compressiion or expansion can't be performed (disk error)

Public Const CMPEXP CANT GET FILEOUT SIZE = -7

'occurs when the length of FileOut can be read (disk error)

Examples:

Dim FileIn As String
Dim FileOut As String
Dim FileOut2 As String
Dim LengthIn As Long
Dim LengthOut As Long

FileIn = "c:\win95\system\msjt3032.dll"

FileOut = "c:\tmp\test.ash"

FileOut = "c:\tmp\test.uah"

LengthOut = cASHFileCompress(FileIn, FileOut) LengthIn = cASHFileExpand(FileOut, FileOut2)

See also : $\underline{\text{Compression}}$

IDEAencryptFile, IDEAdecryptFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

IDEAencryptFile copy one file to an another file but with IDEA encryption. IDEAdecryptFile copy one file to an another file but with IDEA decryption.

Declare Syntax:

Declare Function cIDEAencryptFile Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, Key As String) As Long

Declare Function cIDEAdecryptFile Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, Key As String) As Long

Call Syntax:

```
test& = cIDEAencryptFile(FileIn, FileOut, Key)
test& = cIDEAdecryptFile(FileIn, FileOut, Key)
```

Where:

FileIn\$ is the source file.
FileOut\$ is the destination file.

Key is the key to use for encryption/decryption.

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The Key is case sensitive.

The length of Text can be any size.

The length of Key must be greater or equal to 16 characters.

The encrypted file is always a multiple of 8 characters + 1 character.

If the returned code is a negative value, it take the following value:

```
Public Const CRYPTO_KEY_TOO_SMALL = -1
Public Const CRYPTO_CANT_INIT_KEY = -2
Public Const CRYPTO_CANT_INIT_BUFFER = -11
Public Const CRYPTO_CANT_OPEN_FILEIN = -21
Public Const CRYPTO_CANT_CREATE_FILEOUT = -22
Public Const CRYPTO_ERROR_READING_FILEIN = -31
Public Const CRYPTO_ERROR1_WRITING_FILEOUT = -41
Public Const CRYPTO_ERROR2_WRITING_FILEOUT = -42
Public Const CRYPTO_ERROR1_WRITING_LASTBYTE = -51
Public Const CRYPTO_ERROR2_WRITING_LASTBYTE = -52
Public Const CRYPTO_BAD_LASTBYTE = -61
```

Examples:

Dim Test As Long

```
Test = cIDEAencryptFile("c:\autoexec.bat", "c:\autoexec.tb1", "Time To Win")
Test = cIDEAdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win")
```

See also: Encryption

DIAMONDencryptFile, DIAMONDdecryptFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

DIAMONDencryptFile copy one file to an another file but with Diamond Encryption Algorithm (4 modes). DIAMONDdecryptFile copy one file to an another file but with Diamond Encryption Algorithm (4 modes).

Description:

Diamond is a cipher designed to exceed DES in strength. Diamond uses a variable length key of at least 40 bits. The use of at least a 16 bytes key is recommended for long term protection of very sensitive data, as a hedge against the possibility of computing power increasing by several orders of magnitudes in the coming years.

It is conjectured that Diamond Lite (Mode 2) and a key length of 16 bytes is at least equivalent in security to the IDEA cipher, and more secure than the ageing DES algorithm.

Declare Syntax:

Declare Function cDIAMONDencryptFile Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, Key As String, ByVal Mode As Integer) As Long Declare Function cDIAMONDdecryptFile Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, Key As String, ByVal Mode As Integer) As Long

Call Syntax:

```
test& = cDIAMONDencryptFile(FileIn, FileOut, Key, Mode)
test& = cDIAMONDdecryptFile(FileIn, FileOut, Key, Mode)
```

Where:

FileIn\$ is the source file.
FileOut\$ is the destination file.

Key is the key to use for encryption/decryption.

Mode Public Const DIAMOND_FULL_MODE1 = 1 'more strongest (slowest)

Public Const DIAMOND_FULL_MODE2 = 3 'more strong (slow)
Public Const DIAMOND_LITE_MODE1 = 2 'strongest (fast)
Public Const DIAMOND_LITE_MODE2 = 4 'strong (fastest)

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The Key is case sensitive.

The length of Text can be any size.

The length of Key must be greater or equal to 5 characters (best result with a key of 16 characters or more). In FULL MODE, the length of the encrypted file is always a multiple of 16 characters + 1 character. In LITE MODE, the length of the encrypted file is always a multiple of 8 characters + 1 character.

If the returned code is a negative value, it take the following value:

```
Public Const CRYPTO_KEY_TOO_SMALL = -1
Public Const CRYPTO_CANT_INIT_KEY = -2
Public Const CRYPTO_CANT_INIT_BUFFER = -11
Public Const CRYPTO_CANT_OPEN_FILEIN = -21
Public Const CRYPTO_CANT_CREATE_FILEOUT = -22
Public Const CRYPTO_ERROR_READING_FILEIN = -31
Public Const CRYPTO_ERROR1_WRITING_FILEOUT = -41
Public Const CRYPTO_ERROR2_WRITING_FILEOUT = -42
```

Public Const CRYPTO_ERROR1_WRITING_LASTBYTE = -51 Public Const CRYPTO_ERROR2_WRITING_LASTBYTE = -52 Public Const CRYPTO_BAD_LASTBYTE = -61

Examples:

Dim Test As Long

Test = cDIAMONDencryptFile("c:\autoexec.bat", "c:\autoexec.tb1", "Time To Win", DIAMOND_FULL_MODE1)
Test = cDIAMONDdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", DIAMOND_LITE_MODE1)

See also: Encryption

RUBYencryptFile, RUBYdecryptFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RUBYencryptFile copy one file to an another file but with RUBY algorithm (7 modes). RUBYdecryptFile copy one file to an another file but with RUBY algorithm (7 modes).

Declare Syntax:

Declare Function cRUBYencryptFile Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, Key As String, ByVal Mode As Integer) As Long

Declare Function cRUBYdecryptFile Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, Key As String, ByVal Mode As Integer) As Long

Call Syntax:

```
test& = cRUBYencryptFile(FileIn, FileOut, Key, Mode)
test& = cRUBYdecryptFile(FileIn, FileOut, Key, Mode)
```

Where:

FileIn\$ is the source file.
FileOut\$ is the destination file.

Key is the key to use for encryption/decryption.

Mode Public Const RUBY_MODE_MINIMUM = 1 'speed is of the essence, security

secondary.

Public Const RUBY_MODE_DESK_LOCK = 2 'reasonable compromise of speed vs

security.

Public Const RUBY_MODE_DEAD_BOLT = 4 ' default = probably good enough for most

things.

Public Const RUBY_MODE_PORTABLE_SAFE = 5 's ecurity is more important than speed. Public Const RUBY_MODE_ANCHORED_SAFE = 8 'speed isn't much of a concern.

Public Const RUBY MODE BANK VAULT = 10 'your pentium has nothing better to do,

anyway.

Public Const RUBY_MODE_FORT_KNOX = 16 ' be cool. test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The Key is case sensitive.

The length of Text can be any size.

The length of Key must be greater or equal to 6 characters.

If the returned code is a negative value, it take the following value :

Public Const CRYPTO_KEY_TOO_SMALL = -1
Public Const CRYPTO_CANT_INIT_KEY = -2
Public Const CRYPTO_CANT_INIT_BUFFER = -11
Public Const CRYPTO_CANT_OPEN_FILEIN = -21
Public Const CRYPTO_CANT_CREATE_FILEOUT = -22
Public Const CRYPTO_ERROR_READING_FILEIN = -31
Public Const CRYPTO_ERROR1_WRITING_FILEOUT = -41
Public Const CRYPTO_ERROR2_WRITING_FILEOUT = -42
Public Const CRYPTO_ERROR1_WRITING_LASTBYTE = -51
Public Const CRYPTO_ERROR2_WRITING_LASTBYTE = -52
Public Const CRYPTO_BAD_LASTBYTE = -61

Examples:

Dim Test As Long

 $\label{test} Test = cRUBYencryptFile("c:\autoexec.bat", "c:\autoexec.tb1", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb1", "c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb2", "Time To Win", RUBY_MODE_DESK_LOCK) \\ Test = cRUBYdecryptFile("c:\autoexec.tb2", "Time To Win", "Time To Win"$

See also: Encryption

DeleteSubString

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DeleteSubString deletes all occurances of one string, in another string.

Declare Syntax:

Declare Function cDeleteSubString Lib "time2win.dll" (ByVal Txt As String, ByVal SubString As String, ByVal Sensitivity As Integer) As String

Call Syntax:

test\$ = cDeleteSubString(Txt\$, SubString\$, Sensitivity%)

Where:

Txt\$ the string to proceed.
SubString\$ the sub-string to be deleted

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

test\$ the result.

Comments:

Examples:

```
test$ = cDeleteSubString("this is a test", "is", True) -> "th a test" test$ = cDeleteSubString("this is a test", "is", False) -> "th a test" test$ = cDeleteSubString("this is a test", "IS", True) -> "this is a test" test$ = cDeleteSubString("this is a test", "IS", False) -> "th a test" test$ = cDeleteSubString("this is a test", "T", True) -> "this is a test" test$ = cDeleteSubString("this is a test", "T", False) -> "this is a test" -> "this i
```

See also: String

SetBitX

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SetBitB set a given bit in a given BYTE to Set state or Reset state. SetBitD set a given bit in a given DOUBLE to Set state or Reset state. SetBitl set a given bit in a given INTEGER to Set state or Reset state. SetBitL set a given bit in a given LONG to Set state or Reset state. SetBitS set a given bit in a given SINGLE to Set state or Reset state.

Declare Syntax:

Declare Sub cSetBitB Lib "time2win.dll" (Value As Byte, ByVal Position As Integer, ByVal BitValue As Integer) Declare Sub cSetBitD Lib "time2win.dll" (Value As Double, ByVal Position As Integer, ByVal BitValue As Integer) Declare Sub cSetBitl Lib "time2win.dll" (Value As Integer, ByVal Position As Integer, ByVal BitValue As Integer) Declare Sub cSetBitL Lib "time2win.dll" (Value As Long, ByVal Position As Integer, ByVal BitValue As Integer)
Declare Sub cSetBitS Lib "time2win.dll" (Value As Single, ByVal Position As Integer, ByVal BitValue As Integer)

Call Syntax:

Call cSetBitB(Value, Position, BitValue) Call cSetBitD(Value, Position, BitValue) Call cSetBitI(Value, Position, BitValue) Call cSetBitL(Value, Position, BitValue) Call cSetBitS(Value, Position, BitValue)

Where:

Value the value to proceed Position the bit position BitValue TRUE to Set the bit FALSE to Reset the bit

Comments:

The first bit in the string is the bit 0.

See also: Binary

FromZ9, ToZ9

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FromZ9 convert a Z9 string to an ascii string. ToZ9 convert a ascii string to Z9 string.

Declare Syntax:

Declare Function cFromZ9 Lib "time2win.dll" (Text As String) As String Declare Function cToZ9 Lib "time2win.dll" (Text As String) As String

Call Syntax:

test\$ = cFromZ9(Text) test\$ = cToZ9(Text)

Where:

Text the string to proceed

test\$ the result

Comments:

The returned string from ToZ9 is always a multiple of 2. If the size of the string passed to FromZ9 is not a multiple of 2, only n-1 chars are used.

Examples:

See also: Binary

ModX

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

```
Mod10 calculate the mod-10 of the given string.
```

Mod10R calculate the reverse mod-10 of the given string.

Mod11 calculate the mod-11 of the given string.

Mod11R calculate the reverse mod-11 of the given string.

Mod137 calculate the mod-1.3.7 of the given string.

Mod137R calculate the reverse mod-1.3.7 of the given string.

Declare Syntax:

Declare Function cMod10 Lib "time2win.dll" (ByVal Text As String) As Integer Declare Function cMod10R Lib "time2win.dll" (ByVal Text As String) As Integer Declare Function cMod11 Lib "time2win.dll" (ByVal Text As String) As Integer Declare Function cMod11R Lib "time2win.dll" (ByVal Text As String) As Integer Declare Function cMod137 Lib "time2win.dll" (ByVal Text As String) As Integer Declare Function cMod137R Lib "time2win.dll" (ByVal Text As String) As Integer

Call Syntax:

```
Modulo = cMod10(Text)
Modulo = cMod10R(Text)
Modulo = cMod11(Text)
Modulo = cMod11R(Text)
Modulo = cMod137(Text)
Modulo = cMod137R(Text)
```

Where:

Text the string to proceed

Modulo the result

Comments:

For Mod10, Mod10R, Mod11 and Mod11R:

The string to proceed must be an hexa string (A-Z, 0-9)

For Mod137 and Mod137R:

The string to proceed must be an ascii string (chr\$(0) - chr\$(255))

Examples:

```
Modulo = cMod10("19960825")
                                        ' -> 8
                                        ' -> 2
Modulo = cMod10R("19960825")
                                        ' -> 3
Modulo = cMod11("19960825")
                                       ' -> 9
Modulo = cMod11R("19960825")
Modulo = cMod137("19960825")
                                       ' -> 2
                                       ' -> 2
Modulo = cMod137R("19960825")
                                       ' -> 4
Modulo = cMod137("TIME TO WIN")
Modulo = cMod137R("TIME TO WIN")
                                        ' -> 4
```

See also: Protection

MinNotXD, MinNotXI, MinNotXL, MinNotXS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MinNotXD will return the smallest value in a Double array, not equal to a specified value. MinNotXI will return the smallest value in an Integer array, not equal to a specified value. MinNotXL will return the smallest value in a Long array, not equal to a specified value. MinNotXS will return the smallest value in a Single array, not equal to a specified value.

Declare Syntax:

Declare Function cMinNotXD Lib "time2win.dll" (array() As Double, ByVal ValueNotToReturn As Double) As Double Declare Function cMinNotXI Lib "time2win.dll" (array() As Integer, ByVal ValueNotToReturn As Double) As Integer Declare Function cMinNotXL Lib "time2win.dll" (array() As Long, ByVal ValueNotToReturn As Double) As Long Declare Function cMinNotXS Lib "time2win.dll" (array() As Single, ByVal ValueNotToReturn As Double) As Single

Call Syntax:

```
smallest# = cMinNotXD(array(), ValueNotToReturn#)
smallest% = cMinNotXI(array(), ValueNotToReturn%)
smallest& = cMinNotXL(array(), ValueNotToReturn&)
smallest! = cMinNotXS(array(), ValueNotToReturn!)
```

Where:

array() is the array (Double, Integer, Long, Single).

smallest is the smallest value (Double, Integer, Long, Single) from all of the elements of the array (Double,

Integer, Long, Single).

ValueNotToReturn is the value which can not be returned.

Comments:

See Also: Array

SplitFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SplitFile split a file into target files based on a part size.

Declare Syntax:

Declare Function cSplitFile Lib "time2win.dll" (ByVal SourceFile As String, ByVal TargetFiles As String, ByVal PartSize As Long) As Long

Call Syntax:

test& = cSplitFile(SourceFile\$, TargetFiles\$, PartSize&)

Where:

SourceFiles\$ is the source file.

TargetFiles\$ is the target filename without extension.

PartSize& is the size of each target files.

test& > 0 if all is OK (the returned value is the number of target files created),

< 0 if an error has occured.

Comments:

The extension of each target file created start at 000 and is incremented by 1.

The returned value can be negative and have the following value:

Public Const SPLIT_BAD_PARTSIZE = -1
Public Const SPLIT_BAD_SOURCE_FILENAME = -2
Public Const SPLIT_BAD_TARGET_FILENAME = -3
Public Const SPLIT_CANT_OPEN_SOURCE = -4
Public Const SPLIT_CANT_CREATE_TARGET = -5

-32720 the number of chars in a block for writing differs from the number of chars for reading.

-32730 reading error for SourceFile.

-32740 writing error for TargetFiles.

-32760 allocation error for memory buffer.

Examples:

Debug.Print cSplitFile("c:\tmp\vb.hlp", "d:\temp\vbtst1", 1457664) ' creation of **3** files ' file 1 is d:\temp\vbtst1.000 size is 1457664 size is 1457664

Debug.Print cSplitFile("c:\tmp\vb.hlp", "d:\temp\vbtst2", 2823457) 'creation of 2 files

' file 1 is d:\temp\vbtst2.000 size is 2823457 ' file 2 is d:\temp\vbtst2.001 size is 1002681

See also: File

^{&#}x27;Size of "c:\tmp\vb.hlp" is 3826138 bytes

MaxNotXD, MaxNotXI, MaxNotXL, MaxNotXS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

MaxNotXD will return the largest value in a Double array, not equal to a specified value. MaxNotXI will return the largest value in an Integer array, not equal to a specified value. MaxNotXL will return the largest value in a Long array, not equal to a specified value. MaxNotXS will return the largest value in a Single array, not equal to a specified value.

Declare Syntax:

Declare Function cMaxNotXD Lib "time2win.dll" (array() As Double, ByVal ValueNotToReturn As Double) As Double Declare Function cMaxNotXI Lib "time2win.dll" (array() As Integer, ByVal ValueNotToReturn As Double) As Integer Declare Function cMaxNotXL Lib "time2win.dll" (array() As Long, ByVal ValueNotToReturn As Double) As Long Declare Function cMaxNotXS Lib "time2win.dll" (array() As Single, ByVal ValueNotToReturn As Double) As Single

Call Syntax:

largest# = cMaxNotXD(array(), ValueNotToReturn#)
largest% = cMaxNotXI(array(), ValueNotToReturn%)
largest& = cMaxNotXL(array(), ValueNotToReturn&)
largest! = cMaxNotXS(array(), ValueNotToReturn!)

Where:

array() is the array (Double, Integer, Long, Single).

largest is the largest value (Double, Integer, Long, Single) from all of the elements of the array

(Double, Integer, Long, Single).

ValueNotToReturn is the value which can not be returned.

Comments:

See Also: Array

' definition for FilesCopy
Public Const FC_OVERWRITE_EXISTING = 1
Public Const FC_INCLUDE_SUB_DIRECTORY = 2
Public Const FC_DONT_COPY_EMPTY_DIRECTORY = 4
Public Const FC_DISPLAY_2_LINES = 8

' definition for FilesMove

Public Const FM_REPLACE_EXISTING = 1
Public Const FM_INCLUDE_SUB_DIRECTORY = 2 Public Const FM_DONT_COPY_EMPTY_DIRECTORY = 4 Public Const FM_DISPLAY_2_LINES = 8

CutFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CutFile cut a file in two parts (creation of two files).

Declare Syntax:

Declare Function cCutFile Lib "time2win.dll" (ByVal SourceFile As String, ByVal TargetFile1 As String, ByVal TargetFile2 As String, ByVal CutPosition As Long) As Long

Call Syntax:

test& = cCutFile(SourceFile\$, TargetFile1\$, TargetFile2\$, CutPosition&)

Where:

SourceFiles\$ is the source file.

TargetFile1\$ is the target filename for the first part.
TargetFile2\$ is the target filename for the second part.

CutPosition& is the position in the source file to cut this source file in two.

test& > 0 if all is OK (the returned value is the sum of the two target files createn),

< 0 if an error has occured.

Comments:

The returned value can be negative and have the following value:

```
Public Const CUT_BAD_POSITION = -1
Public Const CUT_BAD_SOURCE_FILENAME = -2
Public Const CUT_BAD_TARGET1_FILENAME = -3
Public Const CUT_BAD_TARGET2_FILENAME = -4
Public Const CUT_POSITION_TOO_BIG = -5
Public Const CUT_CANT_OPEN_SOURCE = -6
Public Const CUT_CANT_CREATE_TARGET1 = -7
Public Const CUT_CANT_CREATE_TARGET2 = -8
```

-32720 the number of chars in a block for writing differs from the number of chars for reading.

-32730 reading error for SourceFile.

-32740 writing error for TargetFiles.

-32760 allocation error for memory buffer.

Examples:

```
Debug.Print cFileSize("e:\vb4\vb.hlp")
Debug.Print cCutFile("e:\vb4\vb.hlp", "d:\temp\vb10.hlp", "d:\temp\vb20.hlp", 1234567)
Debug.Print cCutFile("e:\vb4\vb.hlp", "d:\temp\vb11.hlp", "d:\temp\vb21.hlp", 0)
Debug.Print cCutFile("e:\vb4\vb.hlp", "d:\temp\vb12.hlp", "d:\temp\vb22.hlp", 1)
Debug.Print cCutFile("e:\vb4\vb.hlp", "d:\temp\vb13.hlp", "d:\temp\vb23.hlp", cFileSize("e:\vb4\vb.hlp"))
Debug.Print cFileSize("d:\temp\vb10.hlp"), cFileSize("d:\temp\vb20.hlp")
Debug.Print cFileSize("d:\temp\vb11.hlp"), cFileSize("d:\temp\vb21.hlp")
Debug.Print cFileSize("d:\temp\vb12.hlp"), cFileSize("d:\temp\vb22.hlp")
Debug.Print cFileSize("d:\temp\vb13.hlp"), cFileSize("d:\temp\vb23.hlp")
```

Results:

3826138 3826138

=> (no error : same size)

See also : $\underline{\mathsf{File}}$

'definition for error type for SplitFile
Public Const SPLIT_BAD_PARTSIZE = -1
Public Const SPLIT_BAD_SOURCE_FILENAME = -2
Public Const SPLIT_BAD_TARGET_FILENAME = -3
Public Const SPLIT_CANT_OPEN_SOURCE = -4
Public Const SPLIT_CANT_CREATE_TARGET = -5

' definition for error type for CutFile Public Const CUT_BAD_POSITION = -1

Public Const CUT_BAD_POSITION = -1
Public Const CUT_BAD_SOURCE_FILENAME = -2
Public Const CUT_BAD_TARGET1_FILENAME = -3
Public Const CUT_BAD_TARGET2_FILENAME = -4
Public Const CUT_POSITION_TOO_BIG = -5
Public Const CUT_CANT_OPEN_SOURCE = -6
Public Const CUT_CANT_CREATE_TARGET1 = -7
Public Const CUT_CANT_CREATE_TARGET2 = -8

References

Below, there is an alphabetical list of all companies which have registered one or more versions of TIME TO WIN.

Thanks to all

10 licenses:

Mobil Corporation

2 licenses:

BusinessOnline GmbH Impac Technologies

1 license:

3nP Systems

A.D.Min

A2i

AIRBUS INDUSTRIE (TRAINING CENTER)

Alcatel

Alpha Info Lab.

American Inventory Res.

ANALOG INFORMATICA s.r.l.

ArtCom GmbH

ArtNet GmbH

Ascom AUSTRIA G.m.b.H.

Atril Software

AT&T

ATTA NORM sa

Avantext, Inc

Beck Systemtechnik

BEKKER CONSULTING

BFI-Fochler GmbH

BodySculpture

Boeing

Butler Manufacturing Co.

C.H.U. de NICE

C/O Mlle Vaillant

CDLP REG.

CheqTech Systems Corp

Chevron Oil

Choice Business Systems

Cmc Systems

Coformex,s.a. de c.v.

COMMO-GODS Software

Compuware Corporation

Concepts & Solutions

Cowie Interleasing

CROWE'S COMPUTING SERVICE

CSF AG

CS Software GmbH

CT Innovations

CyberMatrix.

D & L Computing

Data Baur & Co.

Data General

DataService Steinforth

DDSystems

DemosDatamat

DevoSoft

DMF Software

DST Belvedere

Duracell, Inc.

E2 Ltd

ECS

EDV-BERATUNG BECKER

EXACT

FACILITEURS MICRO

Farmacia-Laboratory Cohen

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GEPA GmbH

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hsd ComputerService GmbH

Hydrogeological

Hydrogeological Cons. Ltd

IČAL

ICI C&P

Infosofia snc

Ing. Büro MAP

Int'l Consultants

Integra G.m.b.H.

Interactive

IPS Ltd

JAGENBERG Papiertechnik

Johnson Controls, Inc.

Kodiak Computer, Inc.

Leica bv.

Leuchter Informatik AG

M.T.M. Software

Maestro Software

Makoski und Preuss GbR

MARC WINTER COMPUTER

MEMO-DATA GmbH

MEMSYS Inc.

MEVATEC Corporation

MICAD Systems

MICROCDA

Middle Atlantic Prod.

MOC Asset Management

N&MO

Naegele Computer

Nett & So GmbH

New Motion

NOR Data i Bergslagen

NOR Data i

Novo Nordisk IT

Odense Skolefoto A/S

Pausch Messtechnik GmbH

PINCUS

Pink Flamingo Software

PlanB Software Concepts

Precision Systems

Procornea ned by

Professional Mgmt Systems

ProGResS, Inc.

Qualitech GmbH

R C Associates, Inc.

Rainy River Forest Prdt RH Consulting Rolitron Sahara Soft Salsa Soft Salt and Light Software Santec Itd Seadrift Coke, L.P. Sedasis Ingenierie SIGOLD Skymark packaging int ltd Sofamor Danek Software 4 You Spartan Stores, INc. Star-Kist Foods Stone-Consolidated Sunlight Software Tantra publishing TecnoLab s.r.l. TMI Publishing A/S TRI-CEPTS **UB Networks** University of Queensland U.S. Dept. of Energy **USG** Corporation **UVA Medical Center** VIEW SL VLSI Technology, Inc. Wells Fargo WRF Software Inc

Thanks to all

GetRegistryExt, KillRegistryExt, PutRegistryExt

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetRegistryExt return a key setting value from an application's Windows registry entry for any key handle. KillRegistryExt delete a section or key setting from the Windows registry entry for any key handle. PutRegistryExt save or create an application entry in the Windows registry entry for any key handle.

Declare Syntax:

Declare Function cGetRegistryExt Lib "time2win.dll" (ByVal KeyType As Integer, ByVal lpSection As String, ByVal lpKey As String, ByVal lpDefault As String) As String

Declare Function cPutRegistryExt Lib "time2win.dll" (ByVal KeyType As Integer, ByVal IpSection As String, ByVal IpKey As String, ByVal IpValue As String) As Integer

Declare Function cKillRegistryExt Lib "time2win.dll" (ByVal KeyType As Integer, ByVal IpSection As String, ByVal IpKey As String) As Integer

Call Syntax:

```
retCode% = cPutRegistryExt(KeyType%, IpSection$, IpKey$, IpValue$) retData$ = cGetRegistryExt(KeyType%, IpSection$, IpKey$, IpDefault$) retCode% = cKillRegistryExt(KeyType%, IpSections$, IpKey$)
```

Where:

KeyType% see configuration code

lpSection\$ string expression containing the name of the section where the key setting is being saved.

lpKey\$ string expression containing the name of the key setting being saved.

lpValue\$ string expression containing the value that key is being set to.

lpDefault\$ a string that specifies the default value for the given entry if the entry cannot be found in the

specified section.

retCode% <u>error/success code</u>.

Comments:

Examples:

Debug.Print cGetRegistryExt(RK_HKEY_LOCAL_MACHINE, "HARDWARE\DESCRIPTION\System\ CentralProcessor\0", "VendorIdentifier", "?")

See also: Registry key

GetFileDateTime, SetFileDateTime

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetFileDateTime retrieve in one routine all date & time informations (creation, last access, last write) for a file. SetFileDateTime set in one routine all date & time informations (creation, last access, last write) for a file.

Declare Syntax:

Declare Function cGetFileDateTime Lib "time2win.dll" (ByVal nFilename As String, SysCreation As Any, SysLastAccess As Any, SysLastWrite As Any) As Integer Declare Function cSetFileDateTime Lib "time2win.dll" (ByVal nFilename As String, SysCreation As Any, SysLastAccess As Any, SysLastWrite As Any) As Integer

Call Syntax:

test = cGetFileDateTime(nFilename, SysCreation, SysLastAccess, SysLastWrite) test = cSetFileDateTime(nFilename, SysCreation, SysLastAccess, SysLastWrite)

Where:

nFilename\$ the file to retrieve/set the date & time informations.

SysCreation the type'd variable <u>tagSYSTEMTIME</u> for the creation of the file.

SysLastAccess the type'd variable <u>tagSYSTEMTIME</u> for the last access of the file.

SysLastWrite the type'd variable <u>tagSYSTEMTIME</u> for the last write of the file.

test% is the <u>returned code</u>.

Comments:

For TIME2WIN, T2WIN-16:

The created, access, modified time/date are the same because Win 3.xx don't handle the different date/time information.

Examples:

See also: File

' structure for GetFileDateTime & SetFileDateTime
Type tagSYSTEMTIME

wYear As Integer

wMonth As Integer

wDayOfWeek As Integer

wDay As Integer

wHour As Integer

wMinute As Integer

wSecond As Integer

wMilliseconds As Integer

End Type

End Type

' definition for error type for GetFileDateTime

Public Const GET_FILE_DT_NO_ERROR = -1

Public Const GET_FILE_DT_CANT_OPEN_FILE = 8

Public Const GET_FILE_DT_CANT_GET_TIME = 9

Public Const GET_FILE_DT_CANT_CNV_CREATION = 1

Public Const GET_FILE_DT_CANT_CNV_LAST_ACCESS = 2

Public Const GET_FILE_DT_CANT_CNV_LAST_WRITE = 4

' definition for error type for SetFileDateTime

Public Const SET_FILE_DT_NO_ERROR = -1

Public Const SET_FILE_DT_INO_ERROR - 1
Public Const SET_FILE_DT_CANT_OPEN_FILE = 8
Public Const SET_FILE_DT_CANT_SET_TIME = 9
Public Const SET_FILE_DT_CANT_CNV_CREATION = 1
Public Const SET_FILE_DT_CANT_CNV_LAST_ACCESS = 2
Public Const SET_FILE_DT_CANT_CNV_LAST_WRITE = 4

GetFileDisplayName, GetFileTypeName

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT4.0x}, MSOffice 95

Purpose:

GetFileDisplayName retrieves the EXPLORER (95/NT4.0x) display name of a file. GetFileTypeName retrieves the EXPLORER (95/NT4.0x) type name of a file.

Declare Syntax:

Declare Function cGetFileDisplayName Lib "time2win.dll" (ByVal nFileName As String) As String Declare Function cGetFileTypeName Lib "time2win.dll" (ByVal nFileName As String) As String

Call Syntax:

test\$ = cGetFileDisplayName(nFileName\$)
test\$ = cGetFileTypeName(nFilename\$)

Where:

nFileName\$ the name of the file that you want retrieve the information.

test\$ the result.

Comments:

Examples:

Debug.Print cGetFileDisplayName("C:\WIN95\VBA.INI") 'Vba.ini Debug.Print cGetFileDisplayName("C:\WIN95\SYSTEM.INI") 'System.ini Debug.Print cGetFileDisplayName("C:\WIN95\NOCLOSE.PIF")'Noclose

Debug.Print cGetFileTypeName("C:\WIN95\VBA.INI") 'Configuration Settings Debug.Print cGetFileTypeName("C:\WIN95\SYSTEM.INI") 'Configuration Settings 'Configuration Settings 'Shortcut to MS-DOS Program

See also: Windows 95

' definition for error type for FileMergeExt

Public Const FILE_MERGE_NO_ERROR = -1

Public Const FILE_MERGE_EMPTY_TARGET_FILENAME = -2

Public Const FILE_MERGE_EMPTY_BAD_TARGET_FILENAME = -3
Public Const FILE_MERGE_CANT_SET_FILE_BUFFER = -4
Public Const FILE_MERGE_CANT_CREATE_TARGET_FILE = -5
Public Const FILE_MERGE_ERROR_READING_FILE = -6

Public Const FILE_MERGE_ERROR_WRITING_FILE = -7

Public Const FILE_MERGE_ERROR_BAD_WRITE = -8

Public Const FILE_MERGE_BAD_FILE_AT_POSITION = -10

$\begin{tabular}{ll} Explorer Add To Recent Docs, Explorer Clear All Recent Docs & QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT4.0x}, MSOffice 95 \end{tabular} \label{eq:main_control}$

Purpose:

ExplorerAddToRecentDocs adds a document to the shell's list of recently used documents.

ExplorerClearAllRecentDocs clears all documents from the shell's list of recently used documents.

Declare Syntax:

Declare Sub cExplorerAddToRecentDocs Lib "time2win.dll" (ByVal nFileName As String) Declare Sub cExplorerClearAllRecentDocs Lib "time2win.dll" ()

Call Syntax:

Call cExplorerAddToRecentDocs(nFileName\$) Call cExplorerClearAllRecentDocs

Where:

nFileName\$ the name of the file (document) that you want add to the shell's list..

Comments:

No errors are returned by these functions.

Examples:

Call cExplorerClearAllRecentDocs

Call cExplorerAddToRecentDocs("f:\my documents\account.xls")

See also: Windows 95

```
Public Enum mcGradientGranularityEnum
mcDefault = 0
mcHigh = 1
mcMedium = 2
mcLow = 3
mcVeryLow = 4
End Enum
```

FilesCopy, FilesMove

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FilesCopy copy files from one directory to an another directory/disk. FilesMove move files from one directory to an another directory/disk.

Declare Syntax:

Declare Function cFilesCopy Lib "time2win.dll" (ByVal SourcePath As String, ByVal DestinationPath As String, ByVal CopyPattern As String, ByVal Flags As Integer) As Long Declare Function cFilesMove Lib "time2win.dll" (ByVal SourcePath As String, ByVal DestinationPath As String, ByVal MovePattern As String, ByVal Flags As Integer) As Long

Call Syntax:

test& = cFilesCopy(SourcePath\$, DestinationPath\$, CopyPattern\$, Flags%) test& = cFilesMove(SourcePath\$, DestinationPath\$, MovePattern\$, Flags%)

Where:

SourcePath\$ is the source path;
DestinationPath\$ is the destination path;

CopyPattern\$/MovePattern\$ is the pattern of files to copy/move (*.* or *.dat or *.s?s)

Flags% is the combination of the following <u>value</u>.

test& >= 0 if all is OK (the returned value is the number of files copied),

< 0 if an error has occured (the returned value is the number of files that

haven't been copied).

Comments:

Examples:

Debug.Print cFilesCopy("C:\WIN95", "C:\TMP", "*.LIC", FC_OVERWRITE_EXISTING OF FC_INCLUDE_SUB_DIRECTORY)
Debug.Print cFilesMove("C:\TMP", "C:\TEMP", "*.LIC", FM_REPLACE_EXISTING OF FC_INCLUDE_SUB_DIRECTORY)

See also: File

Math: Overview COMPLEX

CpxAddadds two complex.CpxSubsubstracts two complex.CpxMulmultiplies two complex.CpxDivdivides two complex.

 CpxConjugue
 computes the conjugue of a complex.

 CpxModulus
 computes the modulus of a complex.

 CpxArgument
 computes the argument of a complex.

 CpxPowerN
 computes the power N of a complex.

 CpxSqrt
 computes the square root of a complex.

ROOT

RootN computes the root N of a double number.

ALGOMATH

<u>GreatCommonDivisor</u> returns the Greatest Common Divisor of two numbers. <u>Rotate</u> rotates the digits of a number, x times, in base 10.

SortDigits sorts the digits of a number.

<u>SumDigits</u> returns the sum of the digits of a number.

SumDigitsAlt returns the alternating sum of the digits of a number.

<u>SumDivisors</u> returns the sum of all possible divisors of a number, number not included.

ROUND

Round rounds a number with a precision.
RoundNearest rounds a number to the nearest value.

' success/error code
Public Const ERR_STA_NO_ERROR = -1
Public Const ERR_STA_NO_ITEMS_TO_SORT = 0

SortTypedArray

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SortTypedArray sort a Type'd array which can contain one or more elements of any data type, array, or a previously defined user-defined type.

Declare Syntax:

Declare Function cSortTypedArray Lib "time2win.dll" (TypedArray() As Any, ConfigArray As tagCONFIGARRAY) As Integer

Call Syntax:

status% = cSortTypedArray(TArray(), CArray())

Where:

TArray() is a type'd array which can contain one or more elements of any data type, array, or a previously defined user-defined type.

CArray() is the array for the configuration of the keys to be used to sort the array.

status% is the <u>success/error code</u>.

Comments:

1) This function can sort any Type'd Array. However the sort can be only make with the following data type:

Boolean, Byte, Integer, Long, Single, Double, Currency, Date, Fixed/Variable String, Fixed/Variable String Number, Variant which encapsulate all the data type enumerated.

What is the Fixed/Variable String Number?

Fixed/Variable String Number is a Fixed/Variable String which contains only numerical value. With this data type, the Fixed/Variable String Number is not sorted as a String but as a Number.

- 2) The Type'd array can be sorted with maximum **10** keys. Each key can be sorted by ASCending or DESCending order.
- 3) The 'KeyType' in the CArray() must be one of the following definition.
- 4) IMPORTANT NOTICE about the calculation of the 'KEYOFFSET' parameter in the 'CONFIGARRAY' for VB 4.0 (32-Bit) :

Don't forget that the 32-Bit version of VB (4.0 or Higher) packs the members of a user-defined type on a dword (4-byte) alignment boundary.

So, if you've the following user-defined type:

Private Type UDT

ıntgr	As Integer
Ing	As Long
sng	As Single
dbl	As Double
cur	As Currency
dtm	As Date
bln	As Boolean
byt	As Byte
vnt	As Variant

```
vstrg As String strg As String * 11 End Type
```

The first member is an integer which is 2 bytes in size. Hence there is a padding of 2 bytes following it, as the next member is

a long which is 4 bytes and cannot fit in the same "4-byte alignment boundary". The "sng" is 4 bytes (so, no padding). The "dbl" is 8 bytes (so, no padding). The "cur" is 8 bytes (so, no padding). The "dtm" is 8 bytes (so, no padding). The "bln" and "byt" member are packed together and there is a 1 byte padding after it. The "vnt" is 16 bytes (so, no padding). The "vstrg" is 4 bytes (so, no padding). The Finally, the "strg" member in the VB UDT is a fixed length string of size 22 bytes as stored in VB and 11 bytes when passed to the DLL (so you need, to take care about this and calculate the length of a fixed string with the definition number of chars).

Each member in our user-defined type has the following offset:

intgr	offset 0	(internal size is 2)		
			-> padding of 2 bytes	4-byte alignment
boundary				
Ing	' offset 4	(internal size is 4)	4-byte	e alignment boundary
sng	' offset 8	(internal size is 4)	4-byte	e alignment boundary
dbl	' offset 12	(internal size is 8)	4-byte	e alignment boundary
cur	offset 20	(internal size is 8)	4-byte	e alignment boundary
dtm	' offset 28	(internal size is 8)	4-byte	e alignment boundary
bln	' offset 36	(internal size is 2)		
byt	' offset 38	(internal size is 1)		
-			-> padding of 1 byte	4-byte alignment
boundary				
vnt	' offset 40	(internal size is 16)		4-byte alignment
boundary				
vstrg	' offset 56	(internal size is 4)	4-byte	e alignment boundary
strg boundary	' offset 60	(internal size is 11)	-> padding of 3 byte	4-byte alignment

So in our example, if I need to sort the type'd array on the following 7 keys : Ing, dbl, byt, strg, vstrg, dtm, vnt. The ConfigArray is configured with the following parameters :

```
KeyOffset(1) = 4
                          KeyLength(1) = -1 (auto)
                                                        KeyType(1) = STA LONG
Ing
       KevOrder(1) = 1 (asc)
dbl
       KeyOffset(2) = 12
                          KeyLength(2) = -1 (auto)
                                                        KeyType(2) = STA DOUBLE
       KeyOrder(2) = 1 (asc)
byt
       KeyOffset(3) = 38
                          KeyLength(3) = -1 (auto)
                                                        KeyType(3) = STA BYTE
       KeyOrder(3) = 1 (asc)
       KevOffset(4) = 60
                          KeyLength(4) = 11
                                                        KeyType(4) = STA FIXSTRING CS
strq
       KeyOrder(4) = -1 (desc)
      KeyOffset(5) = 56
                                                        KeyType(5) = STA_VARSTRING_CS
vstrg
                          KeyLength(5) = -1 (var)
       KeyOrder(5) = 1 (asc)
dtm
       KevOffset(6) = 28
                          KeyLength(6) = -1 (auto)
                                                        KeyType(6) = STA DATE
       KevOrder(6) = -1 (desc)
vnt
       KeyOffset(7) = 40
                          KeyLength(7) = -1 (auto/var)
                                                        KeyType(7) = STA_VT_VARSTRING_CI
       KevOrder(7) = 1 (asc)
```

5) IMPORTANT NOTICE about the calculation of the 'KEYOFFSET' parameter in the 'CONFIGARRAY' for VB 4.0 (16-Bit):

Don't forget that the 16-Bit version of VB 4.0 DON'T pack the members of a user-defined type on a dword (4-byte) alignment boundary but on byte alignment boundary. So, if you've the following user-defined type:

```
Private Type UDT intgr As Integer
```

```
Ing
                 As Long
                 As Single
  sng
                 As Double
  dbl
  cur
                 As Currency
  dtm
                 As Date
  bln
                 As Boolean
                 As Byte
  byt
                 As Variant
  vnt
  vstrg
                 As String
                 As String * 11
  strg
End Type
```

Each member in our user-defined type has the following offset:

```
' offset 0
                                      (internal size is 2)
intgr
Ing
                 ' offset 2
                                      (internal size is 4)
                 ' offset 6
                                      (internal size is 4)
sng
dbl
                 ' offset 10
                                      (internal size is 8)
cur
                 ' offset 18
                                      (internal size is 8)
                 ' offset 26
                                     (internal size is 8)
dtm
bln
                 ' offset 34
                                      (internal size is 2)
byt
                 ' offset 36
                                      (internal size is 1)
vnt
                 ' offset 37
                                      (internal size is 16)
                 ' offset 53
vstrg
                                      (internal size is 4)
                 ' offset 57
strg
                                     (internal size is 11)
```

So in our example, if I need to sort the type'd array on the following 7 keys: Ing, dbl, byt, strg, vstrg, dtm, vnt. The ConfigArray is configured with the following parameters:

```
Ing
       KeyOffset(1) = 2
                           KeyLength(1) = -1 (auto)
                                                        KeyType(1) = STA_LONG
       KeyOrder(1) = 1 (asc)
       KeyOffset(2) = 10
dbl
                          KeyLength(2) = -1 (auto)
                                                        KeyType(2) = STA_DOUBLE
       KeyOrder(2) = 1 (asc)
       KeyOffset(3) = 36
                          KeyLength(3) = -1 (auto)
                                                        KeyType(3) = STA BYTE
byt
       KevOrder(3) = 1 (asc)
       KeyOffset(4) = 57
                                                        KeyType(4) = STA FIXSTRING CS
strg
                          KeyLength(4) = 11
       KeyOrder(4) = -1 (desc)
       KeyOffset(5) = 53
                           KeyLength(5) = -1 (var)
                                                        KeyType(5) = STA_VARSTRING_CS
vstrg
       KevOrder(5) = 1 (asc)
dtm
       KeyOffset(6) = 26
                           KeyLength(6) = -1 (auto)
                                                        KeyType(6) = STA_DATE
       KeyOrder(6) = -1 (desc)
vnt
       KeyOffset(7) = 40
                           KeyLength(7) = -1 (auto/var)
                                                        KeyType(7) = STA_VT_VARSTRING_CI
       KeyOrder(7) = 1 (asc)
```

Examples:

Private Type tagTESTARRAY

i1 As Long i2 As Integer i3 As String

End Type

Dim intResult As Integer
Dim i As Integer

Dim TestArray(1 To 10) As tagTESTARRAY
Dim CA As tagCONFIGARRAY

CA.KeyOffset(1) = 0 'offset 0 (internal size is 4)

' for VB 4.0 (16-Bit): offset 0 (internal size is

```
CA.KeyOffset(2) = 4
                        ' offset 4 (internal size is 2) (padding of 2 bytes)
                                                                               ' for VB 4.0 (16-Bit): offset 4
(internal size is 2)
CA.KeyOffset(3) = 8
                        ' offset 8 (internal size is 4)
                                                                      ' for VB 4.0 (16-Bit): offset 6 (internal size is
CA.KeyLength(1) = -1 ' automatic internal size (4)
CA.KeyLength(2) = -1 'automatic internal size (2)
CA.KeyLength(3) = -1 'automatic internal size (variable)
CA.KeyType(1) = STA_LONG
                                                    'Long
CA.KeyType(2) = STA_INTEGER
                                                             ' Integer
CA.KeyType(3) = STA_VARSTRING_CS
                                                    ' Variable length string Case-Sensitive
CA.KevOrder(1) = -1
                                                    ' descending
CA.KeyOrder(2) = 1
                                                    'ascending
CA.KeyOrder(3) = -1
                                                    ' descending
TestArray(1).i1 = 3: TestArray(1).i2 = 1: TestArray(1).i3 = "BBB"
TestArray(2).i1 = 9: TestArray(2).i2 = 7: TestArray(2).i3 = "ZZZ"
TestArray(3).i1 = 1: TestArray(3).i2 = 99: TestArray(3).i3 = "ZZZ"
TestArray(4).i1 = 1: TestArray(4).i2 = -1: TestArray(4).i3 = "AAA"
TestArray(5).i1 = 1: TestArray(5).i2 = -2: TestArray(5).i3 = "BBB"
TestArray(6).i1 = -1: TestArray(6).i2 = 102: TestArray(6).i3 = "aaa"
TestArray(7).i1 = 3: TestArray(7).i2 = 1: TestArray(7).i3 = "AAA"
TestArray(8).i1 = -1: TestArray(8).i2 = 102: TestArray(8).i3 = "bbb"
TestArray(9).i1 = -1: TestArray(9).i2 = 102: TestArray(9).i3 = "BBB"
TestArray(10).i1 = -1: TestArray(10).i2 = 102: TestArray(10).i3 = "AAA"
   List1.AddItem TestArray(i).i1 & vbTab & TestArray(i).i2 & vbTab & TestArray(i).i3
Next i
intResult = cSortTypedArray(TestArray(), CA)
For i = 1 To 10
   List2.AddItem TestArray(i).i1 & vbTab & TestArray(i).i2 & vbTab & TestArray(i).i3
Next i
```

See Also : Array

' structure for SortTypedArray
Type tagCONFIGARRAY
RecordLength As L
ActualKey As Ir
PreviousKey As Ir
KeyOffset(1 To 7) As Ir
KeyLength(1 To 7) As Ir As Long As Integer As Integer As Integer As Integer ' internal use 'internal use ' internal use

' 0 is the higher key, 1 is the lower key
' length of the key (only for fixed string)
' type of the key (see standard/variant data type)
' -1 is reverse order, 0 is not used, 1 is ascending order

KeyType(1 To 7) KeyOrder(1 To 7) As Integer

As Integer

End Type

```
' standard data type
Public Const STA BOOLEAN = 1
                                                  'internal size = 2
Public Const STA BYTE = 2
                                                  'internal size = 1
Public Const STA INTEGER = 3
                                                  'internal size = 2
Public Const STA LONG = 4
                                                  'internal size = 4
Public Const STA SINGLE = 5
                                                  'internal size = 4
                                                  'internal size = 8
Public Const STA DOUBLE = 6
Public Const STA CURRENCY = 7
                                          'internal size = 8
Public Const STA_DATE = 8
                                                  'internal size = 8
Public Const STA_FIXSTRING_CI = 9
                                                  'internal size = *: fixed string length (case insensitive)
Public Const STA_FIXSTRING_CS = 10
                                                  'internal size = * : fixed string length (case sensitive)
Public Const STA_VARSTRING_CI = 11
                                                  'internal size = 4 : variable string length (case insensitive)
Public Const STA_VARSTRING_CS = 12
                                                  'internal size = 4 : variable string length (case sensitive)
Public Const STA_FIXSTRING_NUMBER = 13
                                                  'internal size = * : fixed string length (only number)
Public Const STA VARSTRING NUMBER = 14
                                                  'internal size = 4 : variable string length (only number)
' variant data type
Public Const STA_VT_BOOLEAN = -STA_BOOLEAN
Public Const STA_VT_BYTE = -STA_BYTE
                                                                            ' internal size = 16
                                                                            ' internal size = 16
Public Const STA VT INTEGER = -STA INTEGER
                                                                            ' internal size = 16
Public Const STA VT LONG = -STA LONG
                                                                            'internal size = 16
Public Const STA_VT_SINGLE = -STA_SINGLE
                                                                            'internal size = 16
Public Const STA VT DOUBLE = -STA DOUBLE
                                                                            ' internal size = 16
Public Const STA VT CURRENCY = -STA CURRENCY
                                                                            'internal size = 16
Public Const STA VT DATE = -STA DATE
                                                                            'internal size = 16
Public Const STA VT FIXSTRING CI = -STA VARSTRING CI
                                                                            'internal size = 16
Public Const STA_VT_FIXSTRING_CS = -STA_VARSTRING_CS
                                                                            'internal size = 16
Public Const STA VT VARSTRING CI = -STA VARSTRING CI
                                                                            'internal size = 16
Public Const STA VT VARSTRING CS = -STA VARSTRING CS
                                                                            'internal size = 16
Public Const STA VT FIXSTRING NUMBER = -STA VARSTRING NUMBER
                                                                           ' internal size = 16
```

Public Const STA VT VARSTRING NUMBER = -STA VARSTRING NUMBER 'internal size = 16

DateToInt, IntToDate

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DateToInt compute a Int from all date parts.

IntToDate decompose a Int date into these components.

Declare Syntax:

Declare Function cDateToInt Lib "time2win.dll" (ByVal nYear As Integer, ByVal nMonth As Integer, ByVal nDay As Integer) As Integer

Declare Sub cIntToDate Lib "time2win.dll" (ByVal Scalar As Integer, nYear As Integer, nMonth As Integer, nDay As Integer)

Call Syntax:

```
Int% = cDateToInt(nYear%, nMonth%, nDay%)
Call cIntToDate(Scalar%, nYear%, nMonth%, nDay%)
```

Where:

nYear% is the year.
nMonth% is the month.
nDay% is the day.

Scalar% is the returned computed Int.

Comments:

The date is computed from 1997.01.01, so -32768 is 1997.01.01

For DateToInt:

If the parameters are not correct, the returned value is -1.

Examples:

Dim Scalar
Dim nYear
As Integer
As Integer
Dim nMonth
As Integer
Dim nDay
As Integer

Scalar% = cDateToInt(1997, 1, 1) '-> -32768

Call clntToDate(Scalar%, nYear%, nMonth%, nDay%)

'nYear% '1997 'nMonth% '1 'nDay% '1

See also: Date and time

ShiftLeftD, ShiftLeftI, ShiftLeftL, ShiftLeftS ShiftRightD, ShiftRightI, ShiftRightL, ShiftRightS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ShiftLeftB shift a Byte array to Left and set the last element to a value. ShiftLeftD shift a Double array to Left and set the last element to a value. ShiftLeftI shift an Integer array to Left and set the last element to a value. ShiftLeftL shift a Long array to Left and set the last element to a value. ShiftLeftS shift a Single array to Left and set the last element to a value.

ShiftRightB shift a Byte array to Right and set the first element to a value. ShiftRightD shift a Double array to Right and set the first element to a value. ShiftRightI shift an Integer array to Right and set the first element to a value. ShiftRightL shift a Long array to Right and set the first element to a value. ShiftRightS shift a Single array to Right and set the first element to a value.

Declare Syntax:

Declare Function cShiftLeftB Lib "time2win.dll" (bArray() As Byte, ByVal bValue As Byte) As Integer Declare Function cShiftLeftD Lib "time2win.dll" (dArray() As Double, ByVal dValue As Double) As Integer Declare Function cShiftLeftl Lib "time2win.dll" (iArray() As Integer, ByVal iValue As Integer) As Integer Declare Function cShiftLeftL Lib "time2win.dll" (lArray() As Long, ByVal IValue As Long) As Integer Declare Function cShiftLeftS Lib "time2win.dll" (sArray() As Single, ByVal sValue As Single) As Integer

Declare Function cShiftRightB Lib "time2win.dll" (bArray() As Byte, ByVal bValue As Byte) As Integer Declare Function cShiftRightD Lib "time2win.dll" (dArray() As Double, ByVal dValue As Double) As Integer Declare Function cShiftRightI Lib "time2win.dll" (iArray() As Integer, ByVal iValue As Integer) As Integer Declare Function cShiftRightL Lib "time2win.dll" (lArray() As Long, ByVal IValue As Long) As Integer Declare Function cShiftRightS Lib "time2win.dll" (sArray() As Single, ByVal sValue As Single) As Integer

Call Syntax:

status% = cShiftLeftB(bArray(), bValue) status% = cShiftLeftD(dArray(), dValue) status% = cShiftLeftI(iArray(), iValue) status% = cShiftLeftL(lArray(), IValue) status% = cShiftLeftS(sArray(), sValue) status% = cShiftRightB(bArray(), bValue) status% = cShiftRightD(dArray(), dValue) status% = cShiftRightI(iArray(), iValue) status% = cShiftRightL(lArray(), IValue) status% = cShiftRightS(sArray(), sValue)

Where:

xArray() is the array (Byte, Double, Integer, Long, Single).

xValue is the value (Byte, Double, Integer, Long, Single) to set at the last(ShiftLeft)/first(ShiftRight)

element.

status% always TRUE

Comments:

ShiftLeftB and ShiftRightB are not supported for VB 3.0 and VB 4.0 (16-Bit).

See Also : Array

Convert

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Convert perform conversion between date, time, hour, minute, hundred.

Declare Syntax:

Declare Function cConvert Lib "time2win.dll" (ByVal WhichConversion As Integer, WhichValue As Variant, ConvertError As Integer) As String

Call Syntax:

test\$ = cConvert(WhichConversion%, WhichValue, ConvertError%)

Where:

WhichConversion% is the conversion to perform (see constant)

WhichValue is the variant value to convert
ConvertError% is the return <u>success/error code</u>
test\$ is the result inf a form of a string

Comments:

Examples:

Debug.Print cConvert(CNV_BALANCE_FILL_ZERO_AND_WITH_ALWAYS_SIGN, "1172", ConvertError) '-> +00019:32

Debug.Print cConvert(CNV_HUNDRED_BALANCE_FILL_ZERO_AND_WITH_ALWAYS_SIGN, "1172", ConvertError)

'-> +00019.53

Debug.Print cConvert(CNV_DATE_LONG, "729057", ConvertError) '-> 02.02.1997

See also : Miscellaneous

' definition for shortcut file

Public Const SHORTCUTFILE_GETPATH = 1
Public Const SHORTCUTFILE_GETPATH83 = 2
Public Const SHORTCUTFILE_GETWORKDIR = 3
Public Const SHORTCUTFILE_GETDESCRIPTION = 4
Public Const SHORTCUTFILE_GETARGUMENTS = 5

Public Const SHORTCUTFILE_SETPATH = -1
Public Const SHORTCUTFILE_SETWORKDIR = -2
Public Const SHORTCUTFILE_SETDESCRIPTION = -3
Public Const SHORTCUTFILE_SETARGUMENTS = -4

```
' definition for error code for CONVERT
Public Const CNV NO ERROR = -1
Public Const CNV ERROR NO CONVERSION AVAILABLE = 0
Public Const CNV ERROR CONVERSION TO STRING = 1
Public Const CNV ERROR TIME OUTSIDE LIMIT = 2
Public Const CNV ERROR MISSING TIME SEPARATOR = 3
Public Const CNV ERROR BAD HOUR = 4
Public Const CNV ERROR BAD MINUTE = 5
Public Const CNV_ERROR_MISSING_DATE_SEPARATOR = 6
Public Const CNV ERROR BAD DATE = 7
' definition for conversion parameter for CONVERT
Public Const CNV_TIME_FILL_ZERO = 100
Public Const CNV TIME = 101
Public Const CNV HUNDRED TIME FILL ZERO = 105
Public Const CNV_HUNDRED_TIME = 106
Public Const CNV HOUR FILL ZERO AND WITH ALWAYS SIGN = 110
Public Const CNV HOUR FILL ZERO AND WITH SIGN = 111
Public Const CNV HOUR WITH ALWAYS SIGN = 112
Public Const CNV_HOUR_AND_WITH_SIGN = 113
Public Const CNV HUNDRED HOUR FILL ZERO AND WITH ALWAYS SIGN = 115
Public Const CNV HUNDRED HOUR FILL ZERO AND WITH SIGN = 116
Public Const CNV HUNDRED HOUR WITH ALWAYS SIGN = 117
Public Const CNV_HUNDRED_HOUR_AND_WITH_SIGN = 118
Public Const CNV BALANCE FILL ZERO AND WITH ALWAYS SIGN = 120
Public Const CNV BALANCE FILL ZERO AND WITH SIGN = 121
Public Const CNV BALANCE WITH ALWAYS SIGN = 122
Public Const CNV BALANCE AND WITH SIGN = 123
Public Const CNV HUNDRED BALANCE FILL ZERO AND WITH ALWAYS SIGN = 125
Public Const CNV_HUNDRED_BALANCE_FILL_ZERO_AND_WITH_SIGN = 126
Public Const CNV_HUNDRED_BALANCE_WITH_ALWAYS_SIGN = 127
Public Const CNV_HUNDRED_BALANCE_AND_WITH_SIGN = 128
Public Const CNV DATE SHORT = 200
```

Public Const CNV DATE LONG = 201

DateHourToLong, LongToDateHour

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

DateHourToLong compute a Long from all date-hour parts.

LongToDateHour decompose a Long date-hour into these components.

Declare Syntax:

Declare Function cDateHourToLong Lib "time2win.dll" (ByVal nYear As Integer, ByVal nMonth As Integer, ByVal nDay As Integer, ByVal nHour As Integer, ByVal nMinute As Integer, ByVal nExtra As Integer) As Long Declare Sub cLongToDateHour Lib "time2win.dll" (ByVal Scalar As Long, nYear As Integer, nMonth As Integer, nDay As Integer, nHour As Integer, nMinute As Integer, nExtra As Integer)

Call Syntax:

DateHour& = cDateHourToLong(nYear%, nMonth%, nDay%, nHour%, nMinute%, nExtra%) Call cLongToDateHour(DateHour&, nYear%, nMonth%, nDay%, nHour%, nMinute%, nExtra%)

Where:

nYear% is the year (starting from 1900);

nMonth% is the month; nDay% is the day; nHour% is the hour; nMinute% is the minute;

nExtra% is the extra part of a DateHour; DateHour& is the returned computed Long.

Comments:

Maximum value for each item in DateHour:

Year must be between 1900 and 2079.

Month must be between 1 and 12.

Day must be between 1 and 31.

Hour must be between 0 and 23.

Minute must be between 0 and 59.

Extra must be between 0 and 31.

The date is computed from 1900.01.01 00:00 to 2079.06.06 23:59 but no verifications are performed on input.

You can use this date-hour data type to perform sorting operation on date because the internal members of this data type are :

Date, Hour, Extra in this order.

Examples:

Dim DateHour
Dim nYear
Dim nMonth
As Integer
Dim nDay
As Integer
Dim nHour
Dim nMinute
Dim nExtra
As Long
As Integer
As Integer
As Integer
As Integer
As Integer

DateHour& = cDateHourToLong(1997, 1, 1, 23, 59, 31)

Call cLongToDateHour(DateHour&, nYear%, nMonth%, nDay%, nHour%, nMinute%, nExtra%)

'nYear% is 1997 'nMonth% is 1 'nDay% is 1 'nHour% is 23 'nMinute% is 59 'nExtra% is 7

See also : $\underline{\text{Date and time}}$

MultitasksKeys

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT4.0x}, MSOffice 95

Purpose:

MultitasksKeys disables/enables CTRL+ALT+DEL, ALT+TAB and CTRL+ESC.

Declare Syntax:

For VB 32-Bit:

Declare Sub cMultitasksKeys Lib "t2win-32.dll" (ByVal Status As Integer)

For VB 16-Bit:

Declare Sub cMultitasksKeys95 Lib "time2win.dll" (ByVal Status As Integer)

Call Syntax :

Result% = cMultitasksKeys(Status%)

Where:

Status% TRUE to disable the MultiTasks Keys;

FALSE to enable the MultiTasks Keys.

Comments:

Don't forget to Re-Enable the MultiTasks Keys when your program terminates.

Examples:

Call cMultitasksKeys(True)'-> so, CTRL+ALT+DEL, ALT+TAB and CTRL+ESC are disabled

Call cMultitasksKeys(False) '-> so, CTRL+ALT+DEL, ALT+TAB and CTRL+ESC are enabled

See also : Windows 95

' constants for TypeOfEncoding in cMNEncode and cMNWalkInList
Public Const MN_UU_ENCODED = 1 'UUencoded data
Public Const MN_B64ENCODED = 2 'Mime-Base64 dat
Public Const MN_XX_ENCODED = 3 'XXencoded data
Public Const MN_BH_ENCODED = 4 'Binhex encoded
Public Const MN_PT_ENCODED = 5 'Plain-Text encoded
Public Const MN_QP_ENCODED = 6 'Quoted-Printable ('Mime-Base64 data

'Plain-Text encoded (MIME) 'Quoted-Printable (MIME)

This function works with the following software:

VB 4.0 (32-Bit) under Win95/WinNT VB 5.0 under Win95/WinNT VBA 5.0 under Win95/WinNT MSOffice97 under Win95/WinNT

and

All softwares supporting VBA 5.0

FileForceCopy

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileForceCopy copy one file to an another file with the same file attribute.

Declare Syntax:

Declare Function cFileForceCopy Lib "time2win.dll" (ByVal File1 As String, ByVal File2 As String, ByVal ForceOrNot As Integer) As Long

Call Syntax:

test& = cFileCopy(file1, file2, ForceOrNot%)

Where:

file1\$ is the source file. file2\$ is the destination file.

ForceOrNot% TRUE to force to copy with the same file attribute

FALSE : same as cFileCopy

test& > 0 if all is OK (the returned value is the total bytes copied),

< 0 if an error has occured.

Comments:

The returned value can be negative and have the following value :

-1 can't set file attribute

-32720 the number of chars in a block for writing differs from the number of chars for reading.

-32730 reading error for file 1. -32740 writing error for file 2.

-32750 opening error for file 1. -32751 opening error for file 2.

-32760 allocation error for memory buffer.

Examples:

test& = cFileForceCopy("c:\autoexec.bat", "c:\autoexec.tab", True)

See also: File

ShortcutFileGetX, ShortcutFileSetX

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT4.0x}, MSOffice 95

Purpose:

ShortcutCreate creates a shortcut from a specified file.

ShortcutFileGetArguments retrieves the argument list from a shortcut file (*.lnk).

ShortcutFileGetDescription retrieves the description from a shortcut file (*.lnk).

ShortcutFileGetIconLocation retrieves the icon location from a shortcut file (*.lnk).

ShortcutFileGetPath retrieves the path from a shortcut file (*.lnk).

ShortcutFileGetPath83 retrieves the path (in format 8.3) from a shortcut file (*.lnk).

ShortcutFileGetWorkingDir retrieves the working directory from a shortcut file (*.lnk).

ShortcutFileGetInfo is a generic function to retrieve the above parameter from a shortcut file (*.lnk).

ShortcutFileSetArguments modifies the argument list in a shortcut file (*.lnk).

ShortcutFileSetDescription modifies the description in a shortcut file (*.lnk).

ShortcutFileSetIconLocation modifies the icon location in a shortcut file (*.lnk).

ShortcutFileSetPath modifies the path in a shortcut file (*.lnk).

ShortcutFileSetWorkingDir modifies the working directory in a shortcut file (*.lnk).

ShortcutFileSetInfo is a generic function to modify the above parameter in a shortcut file (*.lnk).

Declare Syntax:

Declare Function cShortcutFileGetInfo Lib "time2win.dll" (ByVal pszShortcutFile As String, ByVal nFunction As Integer) As String

Declare Function cShortcutFileGetArguments Lib "time2win.dll" (ByVal pszShortcutFile As String) As String Declare Function cShortcutFileGetDescription Lib "time2win.dll" (ByVal pszShortcutFile As String) As String Declare Function cShortcutFileGetIconLocation Lib "time2win.dll" (ByVal pszShortcutFile As String, IIconOffset As Long) As String

Declare Function cShortcutFileGetPath Lib "time2win.dll" (ByVal pszShortcutFile As String) As String Declare Function cShortcutFileGetPath83 Lib "time2win.dll" (ByVal pszShortcutFile As String) As String Declare Function cShortcutFileGetWorkingDir Lib "time2win.dll" (ByVal pszShortcutFile As String) As String

Declare Function cShortcutFileSetInfo Lib "time2win.dll" (ByVal pszShortcutFile As String, ByVal pszValue As String, ByVal pszValue As String, ByVal nFunction As Integer) As Integer

Declare Function cShortcutFileSetArguments Lib "time2win.dll" (ByVal pszShortcutFile As String, ByVal pszValue As String) As Integer

Declare Function cShortcutFileSetDescription Lib "time2win.dll" (ByVal pszShortcutFile As String, ByVal pszValue As String) As Integer

Declare Function cShortcutFileSetIconLocation Lib "time2win.dll" (ByVal pszShortcutFile As String, ByVal pszValue As String, ByVal IIconOffset As Long) As Integer

Declare Function cShortcutFileSetPath Lib "time2win.dll" (ByVal pszShortcutFile As String, ByVal pszValue As String) As Integer

Declare Function cShortcutFileSetWorkingDir Lib "time2win.dll" (ByVal pszShortcutFile As String, ByVal pszValue As String) As Integer

Call Syntax:

test\$ = cShortcutFileGetInfo(pszShortcutFile\$, nFunction%)

test\$ = cShortcutFileGetArguments(pszShortcutFile\$)

test\$ = cShortcutFileGetDescription(pszShortcutFile\$)

test\$ = cShortcutFileGetIconLocation(pszShortcutFile\$, IIconOffset&)

test\$ = cShortcutFileGetPath(pszShortcutFile\$)

test\$ = cShortcutFileGetPath83(pszShortcutFile\$)

test\$ = cShortcutFileGetWorkingDir(pszShortcutFile\$)

test% = cShortcutFileSetInfo(pszShortcutFile\$, pszValue\$, nFunction%)

test% = cShortcutFileSetArguments(pszShortcutFile\$, pszValue\$)

test% = cShortcutFileSetDescription(pszShortcutFile\$, pszValue\$)

test% = cShortcutFileSetIconLocation(pszShortcutFile\$, pszValue\$, IlconOffset&)

test% = cShortcutFileSetPath(pszShortcutFile\$, pszValue\$)

test% = cShortcutFileSetWorkingDir(pszShortcutFile\$, pszValue\$)

Where:

pszShortcutFile\$ the shell link's file (*.lnk).

nFunction% the generic parameter (see <u>parameter</u>).

pszValue\$ the new value

IlconOffset& is the icon offset in the file which contains the icon location

test\$ the result for ShortcutFileGetX. test% the result for ShortcutFileSetX:

-1: no error

0: an error has occured

Comments:

Examples:

Debug.Print cShortcutFileGetPath("D:\WIN95\Startup\WinZip.Ink") 'D:\Program Files\WinZip\

WINZIP32.EXE

Debug.Print cShortcutFileGetPath83("D:\WIN95\Startup\WinZip.lnk") 'D:\PROGRA~1\WINZIP\

WINZIP32.EXE

Debug.Print cShortcutFileGetDescription("D:\WIN95\Startup\WinZip.lnk") 'WinZip

Dim IlconOffset As Long

' create a new shortcut in the directory \WIN95\SENDTO

Debug.Print cShortcutCreate("c:\temp\shortcut.test", "t2wlink.lnk", SC_SENDTO)

'-1 = ok

' create a new shortcut on the DESKTOP (in fact \WIN95\DESKTOP)

Debug.Print cShortcutCreate("c:\temp\shortcut.test", "t2wlink.lnk", SC_DESKTOP)

'-1 = ok

Debug.Print cShortcutFileGetIconLocation("d:\win95\sendto\t2wlink.lnk", IIconOffset), IIconOffset' "", 0 (because no associated icon)

Debug.Print cShortcutFileSetIconLocation("d:\win95\sendto\t2wlink.lnk", "shell32.dll", 1) '-1 = ok
Debug.Print cShortcutFileGetIconLocation("d:\win95\sendto\t2wlink.lnk", IlconOffset), IlconOffset' "shell32.dll" 1
(icon offset = 1)

Debug.Print cShortcutFileGetIconLocation("d:\win95\desktop\t2wlink.lnk", IlconOffset), IlconOffset '"", 0 (because no associated icon)

Debug.Print cShortcutFileSetIconLocation("d:\win95\desktop\t2wlink.lnk", "shell32.dll", 3) '-1 = ok

Debug.Print cShortcutFileGetIconLocation("d:\win95\desktop\t2wlink.lnk", IIconOffset), IIconOffset "shell32.dll" 1 (icon offset = 1)

See also: Windows 95

LockKeyboard, LockMouse

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT4.0x}, MSOffice 95

Purpose:

LockKeyboard locks/unlocks the keyboard for any applications.

LockMouse locks/unlocks the mouse (any events : left and/or middle and/or right click) for any applications.

Declare Syntax:

Declare Function cLockKeyboard Lib "t2win-32.dll" (ByVal LockUnlock As Integer, ByVal SpecialUnlockKey As Integer) As Integer

Declare Function cLockMouse Lib "t2win-32.dll" (ByVal LockUnlock As Integer, ByVal ClickToBeHooked As Integer) As Integer

Call Syntax:

intResult% = cLockKeyboard(LockUnlock%, SpecialUnlockKey%) intResult% = cLockMouse(LockUnlock%, ClickToBeHooked%)

Where:

LockUnlock% TRUE to disable the keyboard/mouse;

FALSE to enable the keyboard/mouse.

SpecialUnlockKey% code of the key to disable the locking of the keyboard (in case of ...).

ClickToBeHooked% type of <u>click</u> to be hooked.

Comments:

- 1) There is no need to call this function with the FALSE parameter when you stop your program. The lock of the keyboard/mouse will be automatically removed when TIME TO WIN 32-Bit will be removed from the memory.
- 2) When you set a SpecialUnlockKey, you must press ALT+CTRL+SHIFT+[SpecialUnlockKey] to unlock the keyboard.
- 3) Don't forget that the multi task keys (ALT+CTRL+DEL, ALT+TAB, CTRL+ESC) are not handled by this routine, so use the c<u>MultitaskKeys</u> function to disable it.

Examples:

Debug.Print cLockKeyboard(True, &H70)

special unlock key to F1 (use ALT+CTRL+SHIFT+F1).

Debug.Print cSleep(7000)

seconds.

Debug.Print cLockKeyboard(False, 0)

Debug.Print cLockMouse(True, LOCK MOUSE ALL CLICK)

Debug.Print cSleep(7000)

seconds.

Debug.Print cLockMouse(False, 0)

' lock the keyboard and set the

' sleep the current task for 7

' unlock the keyboard.

' lock the mouse.

' sleep the current task for 7

' unlock the mouse.

See also: Windows 95

' constants for LockMouse

Public Const LOCK_MOUSE_LCLICK = 1
Public Const LOCK_MOUSE_MCLICK = 2
Public Const LOCK_MOUSE_RCLICK = 4
Public Const LOCK_MOUSE_ALL_CLICK = LOCK_MOUSE_LCLICK Or LOCK_MOUSE_MCLICK Or LOCK_MOUSE_RCLICK

LFill, RFill

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

LFill pads a string to the left, to a know length. RFill pads a string to the left, to a know length.

Declare Syntax:

Declare Function cLFill Lib "time2win.dll" (ByVal Txt As String, ByVal CharToFill As String, ByVal Length As Long) As String

Declare Function cRFill Lib "time2win.dll" (ByVal Txt As String, ByVal CharToFill As String, ByVal Length As Long) As String

Call Syntax:

```
test$ = cLFill(Txt$, CharToFill$, Length&)
test$ = cRFill(Txt$, CharToFill$, Length&)
```

Where:

Txt\$ the string to proceed.

CharToFill\$ the pad char

Length the new length of the string.

test\$ the result.

Comments:

Examples:

test\$ = cLFill("1234", "0", 10)	-> "000001234"
test\$ = cRFill("1234", "0", 10)	-> "1234000000"
test\$ = cLFill("TEST", " ", 10)	-> " TEST"
test\$ = cRFill("TEST", " ", 10)	-> "TEST "
test\$ = cLFill("TEST", "_", 12)	-> "1234"
test\$ = cRFill("TEST", "_", 12)	-> "1234"

MatchTable

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MatchTable compares a string with a set of strings delimited by a separator.

Declare Syntax:

Declare Function cMatchTable Lib "time2win.dll" (ByVal Txt As String, ByVal Match As String, ByVal Separator As String, ByVal Sensitivity As Integer) As Integer

Call Syntax:

test% = cMatchTable(Txt\$, Match\$, Separator\$, Sensitivity%)

Where:

Txt\$ the string to compare.

Match\$ the set of strings used to compare. Separator\$ the separator in the set of strins.

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

test% the position of the string.

Comments:

If the string can't be found in the set of strings, the returned value is -1.

Examples:

```
test$ = cMatchTable("A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "bc", "/", True) -> 7 test$ = cMatchTable("A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "bc", "/", False) -> 2 test$ = cMatchTable("A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "BC", "/", True) -> 2 test$ = cMatchTable("A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "BC", "/", False) -> 2 test$ = cMatchTable("A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "abc", "/", True) -> -1 test$ = cMatchTable("A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "abc", "/", False) -> -1
```

LSetIn, RSetIn

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

LSetIn inserts a string (to the left) into a sub-string delimited by a separator in a given string. RSetIn inserts a string (to the right) into a sub-string delimited by a separator in a given string.

Declare Syntax:

Declare Function cLSetIn Lib "time2win.dll" (ByVal Txt As String, ByVal Separator As String, ByVal Position As Long, ByVal StringToInsert As String) As String

ByVal StringToInsert As String) As String

Declare Function cRSetIn Lib "time2win.dll" (ByVal Txt As String, ByVal Separator As String, ByVal Position As Long, ByVal StringToInsert As String) As String

Call Syntax:

```
test$ = cLSetIn(Txt$, Separator$, Position&, StringToInsert$)
test$ = cRSetIn(Txt$, Separator$, Position&, StringToInsert$)
```

Where:

Txt\$ the string to proceed.

Separator\$ the delimitor for each sub-string.
Position& the position of the sub-string.
StringToInsert\$ the string to be inserted.

test\$ the result.

Comments:

* If the size of the string is 0 or if the position is < 1 or greater than the maximum block is the string or if the length is 0. The returned string is an empty string.

Examples:

```
test$ = cLSetIn("A/BC/DEF/G", "/", 4, "***")
                                                              -> "A/BC/DEF/***G"
test$ = cRSetIn("A/BC/DEF/G", "/", 4, "***")
                                                              -> "A/BC/DEF/G***"
test$ = cLSetIn("A/BC/DEF/G", "/", 1, "*")
                                                              -> "*A/BC/DEF/G"
test$ = cRSetIn("A/BC/DEF/G", "/", 1, "*")
                                                              -> "A*/BC/DEF/G"
test$ = cLSetIn("A/BC/DEF/G", "/", 0, "*")
                                                              -> "A/BC/DEF/G"
test$ = cRSetIn("A/BC/DEF/G", "/", 0, "*")
                                                              -> "A/BC/DEF/G"
test$ = cLSetIn("A/BC/DEF/G", "/", 2, "")
                                                              -> "A/BC/DEF/G"
test$ = cRSetIn("A/BC/DEF/G", "/", 2, "")
                                                              -> "A/BC/DEF/G"
```

StringReplace

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

StringReplace searches for known strings, and replaces them with another string.

Declare Syntax:

Declare Function cStringReplace Lib "time2win.dll" (ByVal Text As String, ByVal Pattern As String, ByVal Sensitivity As Integer) As String

Call Syntax:

test\$ = cStringReplace(Txt\$, Pattern\$)

Where:

Txt\$ the string to proceed.

Pattern\$ the pattern string under the form "xxx|yyy;aaa|bbb";...|..."

test\$ the result.

Comments:

The length of the returned string can't be greater than 25 times the length of the Txt string.

Examples:

test\$ = cStringReplace("thsi si a test and this is na naother test", "si|is;na|an")

-> "this is a test and this is an another test"

test\$ = cStringReplace("this si a test and this is na another test", "this si a test|this is an another test;this is na another test|this is really an another test")

-> "this is an another test and this is really an another

test"

InStr

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

InStr Finds the position of the first occurrence of one string within another (like VB Instr function).

Declare Syntax:

Declare Function clnStr Lib "time2win.dll" (ByVal StartPosition As Long, ByVal Txt As String, ByVal Search As String, ByVal Sensitivity As Integer) As Long

Call Syntax:

test& = clnStr(StartPosition&, Txt\$, Search\$, Sensitivity%)

Where:

StartPosition& numeric expression that sets the starting position for each search.

Txt\$ string expression being searched.

Search\$ string expression sought.

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

test& the position of the string.

Comments:

If Txt\$ is zero-length, the returned value is 0

If Search\$ is zero-length, the returned value is StartPosition

If Search\$ is not found, the returned value is 0

If Search\$ is found within Txt\$, the returned value is the position at which match is found

If StartPosition > Len(Txt\$), the returned value is 0

If StartPosition < 1, the returned value is -1

Examples:

test\$ = clnStr(1, "A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "bc", True) test\$ = clnStr(1, "A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "bc", False)	'-> 24 '-> 3
test\$ = clnStr(7, "A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "bc", True) test\$ = clnStr(7, "A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "bc", False)	'-> 24 '-> 24
test\$ = clnStr(0, "A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "bc", True)	'-> -1
test\$ = clnStr(128, "A/BC/DEF/GHIJ/KLMNOP/a/bc/def/ghij/klmnop", "bc", True)	'-> 0

' constants for error processing

Public Const MNRET_OK = 0
Public Const MNRET_IOERR = 1
Public Const MNRET_NOMEM = 2
Public Const MNRET_ILLVAL = 3
Public Const MNRET_NODATA = 4
Public Const MNRET_NOEND = 5
Public Const MNRET_UNSUP = 6
Public Const MNRET_EXISTS = 7
Public Const MNRET_CONT = 8
Public Const MNRET_CANCEL = 9

'I/O Error - examine errno
'not enough memory
'illegal value for operation

'decoder didn't find any data
'encoded data wasn't ended properly
'unsupported function (encoding)

'file exists (decoding)

'continue -- special from ScanPart

'operation canceled

 $\begin{tabular}{ll} MNInitialize, MNShutdown \\ \textbf{QuickInfo}: VB 3.0, VB 4.0 (16-Bit), \underline{VB} 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, $\underline{MSOffice}$ 95 \\ \end{tabular}$

Purp	ose:	•
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MNInitialize initializes the Mail & News memory to perform encoding/decoding. MNShutdown shutdowns the Mail & News memory (cleanup).

Declare Syntax:

Declare Function cMNInitialize Lib "time2win.dll" () As Long Declare Function cMNShutdown Lib "time2win.dll" () As Long

Call Syntax:

IReturn& = cMNInitialize() IReturn& = cMNShutdown()

Where:

IReturn& is the MNRET_ code

Comments:

Examples:

See also: Mail & News

MNEncode

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MNEncode encodes a file in single-part or multi-part using "UUE", "Mime-Base64", "XXE"...

Declare Syntax:

Declare Function cMNEncode Lib "time2win.dll" (ByVal FileIn As String, ByVal FileOut As String, ByVal NameInFile As String, ByVal TypeOfEncoding As Long, ByVal LinesPerFile As Long, ByVal MimeHeaders As Integer, ByVal Sender As String, ByVal Receiver As String, ByVal Subject As String) As Long

Call Syntax:

IReturn& = cMNEncode(FileIn\$, FileOut\$, NameInFile\$, TypeOfEncoding&, LinesPerFiles&, MimeHeaders%, Sender\$, Receiver\$, Subject\$)

Where:

FileIn\$ is the file to encode FileOut\$ is the result file

NameInFile\$ is the name of the file to be placed in the result file (can be usefull for the decoding)
TypeOfEncoding& is the encoding method (see MN ??? ENCODED code) (at this time, only UUE, XXE,

Mime-Base64 are supported)

LinesPerFiles& is the number of lines per file (0 = single-part, >0 = multi-part)

MimeHeaders% is the header to be placed (see MNHDR_code)

Sender\$ is the sender of the message

Receiver\$ is the receiver of the message

Subject\$ is the subject of the message

IReturn& < 0 : negative values of the MNRET_ code

>=0 : size of the result file

Comments:

Examples:

See also: Mail & News

MNGetOption, MNSetOption

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MNGetOption retrieves options. MNSetOption sets options.

Declare Syntax:

Declare Function cMNGetOption Lib "time2win.dll" (ByVal OptionNo As Long, LongVal As Long, StringVal As String) As Integer

Declare Function cMNSetOption Lib "time2win.dll" (ByVal OptionNo As Long, ByVal LongVal As Long, ByVal StringVal As String) As Integer

Call Syntax:

iReturn% = cMNGetOption(OptionNo&, LongVal&, StringVal\$)

Where:

OptionNo& is the option to retrieve or set (see MNOPT_code)
LongVal& is the value of a long option to retrieve or set
StringVal\$ is the value of a string option to retrieve or set

iReturn% True if all is OK

False if an error has occured

Comments:

Examples:

See also: Mail & News

MNDecodeFromList

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

MNDecodeFromList decodes a file from the list of files using "UUE", "Mime-Base64/PT/QP", "XXE", "BinHex".

Declare Syntax:

Declare Function cMNDecodeFromList Lib "time2win.dll" (ByVal Ptr As Long, FileState As Long, ErrorCodeForDecodeOperation As Long, ErrorCodeForMoveOperation As Long) As Long

Call Syntax:

IResult& = cMNDecodeFromList(Ptr&, FileState&, ErrorCodeForDecodeOperation&, ErrorCodeForMoveOperation&)

Where:

Ptr& is the file pointer from c<u>WalkInList</u>
FileState& is an OR'ed combination of <u>MNSTATE</u> code

ErrorCodeForDecodeOperation& (not yet implemented)
ErrorCodeForMoveOperation& (not yet implemented)

IReturn& < 0 : negative values of the <u>MNRET_</u> code

>=0 : size of the result file

Comments:

Examples:

see Mail & News in the demo program

See also: Mail & News

Math: Complex

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

CpxAdd adds two complex.

CpxSub substracts two complex.

CpxMul multiplies two complex.

CpxDiv divides two complex.

CpxConjugue computes the conjugue of a complex.

CpxModulus computes the modulus of a complex.

CpxArgument computes the argument of a complex.

CpxPowerN computes the power N of a complex.

CpxSqrt computes the square root of a complex.

Declare Syntax:

Type tagCOMPLEX

a As Double b As Double

End Type

Declare Function cCpxAdd Lib "time2win.dll" (z1 As tagCOMPLEX, z2 As tagCOMPLEX) As tagCOMPLEX Declare Function cCpxSub Lib "time2win.dll" (z1 As tagCOMPLEX, z2 As tagCOMPLEX) As tagCOMPLEX Declare Function cCpxMul Lib "time2win.dll" (z1 As tagCOMPLEX, z2 As tagCOMPLEX) As tagCOMPLEX Declare Function cCpxDiv Lib "time2win.dll" (z1 As tagCOMPLEX, z2 As tagCOMPLEX) As tagCOMPLEX Declare Function cCpxConjugue Lib "time2win.dll" (z1 As tagCOMPLEX) As tagCOMPLEX Declare Function cCpxModulus Lib "time2win.dll" (z1 As tagCOMPLEX) As Double Declare Function cCpxArgument Lib "time2win.dll" (z1 As tagCOMPLEX) As Double Declare Function cCpxPowerN Lib "time2win.dll" (z1 As tagCOMPLEX, ByVal n As Integer) As tagCOMPLEX Declare Function cCpxSqrt Lib "time2win.dll" (z1 As tagCOMPLEX) As tagCOMPLEX

Call Syntax:

z = CpxAdd(z1, z2) z = CpxSub(z1, z2) z = CpxMul(z1, z2) z = CpxDiv(z1, z2) z = CpxConjugue(z1) m# = CpxModulus(z1) a# = CpxArgument(z1) z = CpxPowerN(z1, n%) z = CpxSqrt(z1)

Where:

z1 is a complex number (see tagCOMPLEX definition)
z2 is a complex number (see tagCOMPLEX definition)
z is the result complex number (see tagCOMPLEX definition)

n% is the power to be applied to a complex number

m# is the modulus of a complex number a# is the argument of a complex number

Comments:

Examples:

Dim z As tagCOMPLEX Dim z1 As tagCOMPLEX As tagCOMPLEX Dim z2 As Double Dim r z1.a = 3: z1.b = 4 z2.a = 6: z2.b = 8z = cCpxAdd(z1, z2)Debug.Print "add: a="; z.a; " b="; z.b 'add:a=9 b=12 z = cCpxSub(z1, z2)Debug.Print "sub: a="; z.a; " b="; z.b 'sub:a=-3 b=-4 z = cCpxMul(z1, z2)Debug.Print "mul: a="; z.a; " b="; z.b 'mul: a=-14 b= 48 z = cCpxDiv(z1, z2)Debug.Print "div: a="; z.a; " b="; z.b ' div : a= 0,5 b= 0 z = cCpxConjugue(z1)Debug.Print "conj z1: a="; z.a; " b="; z.b 'conj z1: a= 3 b=-4 z = cCpxConjugue(z2)Debug.Print "conj z2 : a="; z.a; " b="; z.b 'conj z2 : a= 6 b=-8 r = cCpxModulus(z1)Debug.Print "modul z1: r="; r ' modul z1 : r= 5 r = cCpxModulus(z2)Debug.Print "modul z2 : r="; r ' modul z2 : r= 10 r = cCpxArgument(z1)Debug.Print "arg z1 : phi="; r 'arg z1 : phi= 0,927295218001612 r = cCpxArgument(z2)Debug.Print "arg z2 : phi="; r ' arg z2 : phi= 0,927295218001612 z = cCpxPowerN(z1, 3)Debug.Print "Power3 z1 : a="; z.a; " b="; z.b 'Power3 z1 : a=-117 b= 44 z = cCpxPowerN(z2, 3)Debug.Print "Power3 z2 : a="; z.a; " b="; z.b 'Power3 z2 : a=-936 b= 352 z = cCpxSqrt(z1)Debug.Print "sqrt z1 : a="; z.a; " b="; z.b 'sqrt z1 : a= 2 b= 1 z = cCpxSqrt(z2)

'sqrt z2 : a= 2,82842712474619 b= 1,4142135623731

See also: Math

Debug.Print "sqrt z2 : a="; z.a; " b="; z.b

' constants for FileState (may be OR'ed) in cMNWalkInList

Public Const MNSTATE_READ = 0
Public Const MNSTATE_MISPART = 1
Public Const MNSTATE_NOBEGIN = 2
Public Const MNSTATE_NOEND = 4
Public Const MNSTATE_NODATA = 8
Public Const MNSTATE_OK = 16
Public Const MNSTATE_ERROR = 32
Public Const MNSTATE_DECODED = 64
Public Const MNSTATE_TMPFILE = 128

'Read in, but not further processed
'Missing Part(s) detected
'No 'begin' found
'No 'end' found
'File does not contain valid uudata
'All Parts found, ready to decode
'Error while decoding

'Temporary decoded file exists

'Successfully decoded

' constants for OptionNO in cMNGetOption and cMNSetOption

Public Const MNOPT VERSION = 0 Public Const MNOPT FAST = 1 Public Const MNOPT DUMBNESS = 2 Public Const MNOPT BRACKPOL = 3 Public Const MNOPT VERBOSE = 4 Public Const MNOPT DESPERATE = 5 Public Const MNOPT_IGNREPLY = 6 Public Const MNOPT_OVERWRITE = 7 Public Const MNOPT_SAVEPATH = 8 Public Const MNOPT_IGNMODE = 9 Public Const MNOPT_DEBUG = 10 Public Const MNOPT_DEBOG = 10
Public Const MNOPT_ERRNO = 14
Public Const MNOPT_PROGRESS = 15
Public Const MNOPT_USETEXT = 16
Public Const MNOPT_PREAMB = 17
Public Const MNOPT_TINYB64 = 18
Public Const MNOPT_ENCEXT = 19

'version number MAJOR.MINORpIPATCH (ro)

'assumes only one part per file

'switch off the program's intelligence 'give numbers in [] higher precendence 'generate informative messages 'try to decode incomplete files 'ignore RE:plies (off by default)

'whether it's OK to overwrite ex. files 'prefix to save-files on disk ignore the original file mode 'print messages with FILE/LINE info 'get last error code for MNRET_IOERR (ro)

'retrieve progress information

'handle text messages

'handle Mime preambles/epilogues

'detect short B64 outside of Mime

'extension for single-part encoded files

Math: RootN

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RootN computes the root N of a double number.

Declare Syntax:

Declare Function cRootN Lib "time2win.dll" (ByVal x As Double, ByVal n As Integer, ByVal Precision As Integer, Iteration As Long) As Double

Call Syntax:

v# = cRootN(x#, n%, Precision%, Iteration&)

Where:

x# is the double number to be proceeded n% is the root N to applied to the double number

Precision% is the precision to be applied to find the root N of the double number (precision is

computed by 10[^](-n))

Iteration& is the returned number of iteration to satisfy the precision.

v# is the returned root N of the double number.

Comments:

```
If ( x\# = 0.0 ) then the returned value is -1.
If ( n\% < 2 ) then the returned value is -2.
if (Precision% < 3) then the returned value is -3.
```

Examples:

```
Dim itr
               As Long
Dim v
               As Double
'computes the root 7 of the number with a precision of 10^(-10)
v = cRootN(1234567.98765432, 7, 10, itr)
Debug.Print x & " - " & itr & " - " & x ^ 7
                                                            '7,4167976458079 - 37 - 1234567,98765432
      (37 iterations)
' computes the root 27 of the number with a precision of 10^(-10)
v = cRootN(1234567.98765432, 27, 10, itr)
Debug.Print x & " - " & itr & " - " & x ^ 27
                                                            ' 1,68117013762404 - 176 - 1234567,98765432
      (176 iterations)
' computes the root 100 of the number with a precision of 10<sup>(-20)</sup>
v = cRootN(1234567.98765432, 100, 20, itr)
Debug.Print x & " - " & itr & " - " & x ^ 100
                                                            ' 1,15057557433956 - 690 - 1234567,98765433
      (690 iterations)
```

See also: Math

RmvDupD, RmvDupI, RmvDupL, RmvDupS

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

RmvDupD will remove duplicate values in a Double array (one and two dimensions). RmvDupI will remove duplicate values in an Integer array (one and two dimensions). RmvDupL will remove duplicate values in a Long array (one and two dimensions). RmvDupS will remove duplicate values in a Single array (one and two dimensions).

Declare Syntax:

Declare Function cRmvDupD Lib "time2win.dll" (Darray() As Double, ByVal UseFileTemp As Integer, ByVal FileTemp As String, ByVal AutomaticResize As Integer) As Long

Declare Function cRmvDupl Lib "time2win.dll" (Iarray() As Integer, ByVal UseFileTemp As Integer, ByVal FileTemp As String, ByVal AutomaticResize As Integer) As Long

Declare Function cRmvDupL Lib "time2win.dll" (Larray() As Long, ByVal UseFileTemp As Integer, ByVal FileTemp As String, ByVal AutomaticResize As Integer) As Long

Declare Function cRmvDupS Lib "time2win.dll" (Sarray() As Single, ByVal UseFileTemp As Integer, ByVal FileTemp As String, ByVal AutomaticResize As Integer) As Long

Call Syntax:

IngResult& = cRmvDupD(array(), UseFileTemp%, FileTemp\$, AutomaticResize%)
IngResult& = cRmvDupI(array(), UseFileTemp%, FileTemp\$, AutomaticResize%)
IngResult& = cRmvDupL(array(), UseFileTemp%, FileTemp\$, AutomaticResize%)
IngResult& = cRmvDupS(array(), UseFileTemp%, FileTemp\$, AutomaticResize%)

Where:

array() is the array (Double, Integer, Long, Single).

UseFileTemp% True if you want to use a temporary file to perform the operation.

False if you don't.

FileTemp\$ name of the temporary file (only if UseFileTemp% = True)

AutomaticResize% True if you want to perform an automatic resize (same as Redim Preserve)

False if you want to perform a "manual" resize (so you need to use Redim Preserve)

IngResult& returnd the number of remaining element in the array for the last dimension.

Comments:

WARNING, these routines need to sort the array before removing duplicate values.

If you want to remove duplicate values on a big array (more than 10.000 lines), you can use the temporary file. In this case, the usage of the temporary file is faster than the memory usage because, I don't need to move bigger portion of memory.

Examples:

```
Dim IngResult As Long
ReDim TestArray(1 TO 5)As Integer
```

```
TestArray(1) = 1: TestArray(2) = 2: TestArray(3) = 3: TestArray(4) = 2: TestArray(5) = 1
```

```
IngResult = cRmvDupI(TestArray(), False, "", False) '-> value is 3
```

ReDim Preserve TestArray(1 To IngResult)

'---->

See Also : Array

TrayBar

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT4.0x}, MSOffice 95

Purpose:

TrayBar hides/shows the tray bar.

Declare Syntax:

Declare Sub cTrayBar Lib "time2win.dll" (ByVal HideOrShow As Integer)

Call Syntax :

Call cTrayBar(HideOrShow%)

Where:

HideOrShow%

TRAYBAR_HIDE to hide the tray bar; TRAYBAR_SHOW to show the tray bar.

Comments:

Examples:

Call cTrayBar(TRAYBAR_HIDE) '-> so, tray bar is hidden

Call cTrayBar(TRAYBAR_SHOW) '-> so, tray bar is showed

See also : Windows 95

Extract

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Extract extracts a sub-string with a key in a string.

Declare Syntax:

Declare Function cExtract Lib "time2win.dll" (ByVal Txt As String, ByVal Key As String, ByVal FieldSep As String, ByVal Sensitivity As Integer) As String

Call Syntax:

```
sResult$ = cExtract(Txt$, Key$, FieldSep$, Sensitivity%)
```

Where:

Txt\$ string expression being processed.

Key\$ string expression sought.

FieldSep\$ field separator (any number of chars).
Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

sResult\$ the sub-string associated with the key.

Comments:

If Txt\$ is zero-length, the returned string is empty.

If Key\$ is zero-length, the returned string is empty.

If FieldSep\$ is zero-length, the returned string is empty.

If FieldSep\$ can't found in Txt\$, the returned string is the string from the key until the end of Txt\$.

The Key\$ is never returned in the returned string. The FieldSep\$ is never returned in the returned string.

Examples:

Dim Str1 As String

```
Str1 = Str1 + "Path: ourworld.compuserve.com/homepages/alpouda" & vbCrLf
  Str1 = Str1 + "From: time to win 32-bit" & vbCrLf
  Str1 = Str1 + "Newsgroups: comp.lang.basic.visual.misc" & vbCrLf
  Str1 = Str1 + "Subject: extract a sub-string with a key" & vbCrLf
  Str1 = Str1 + "Date: 17 Aug 1997 16:25:43 GMT" & vbCrLf
  Str1 = Str1 + "Organization: The M.C.R. Company" & vbCrLf
  Str1 = Str1 + "Lines: 25" & vbCrLf
  Str1 = Str1 + "Message-ID: <5t5u41$8ai$11@ourworld.compuserve.com>" & vbCrLf
  Str1 = Str1 + "NNTP-Posting-Host: ppp054.103.ourworld.compuserve.com" & vbCrLf
  Str1 = Str1 + "Post-Count: 000518" & vbCrLf
  Str1 = Str1 + "Xref: time to win 32-bit (v" & cGetVersion() & ")" & vbCrLf
Debug.Print cExtract(Str1, "Path:", vbCrLf, True)
                                                             '-> ourworld.compuserve.com/homepages/alpouda
Debug.Print cExtract(Str1, "Subject:", vbCrLf, True)
                                                             '-> extract a sub-string with a key
Debug.Print cExtract(Str1, "Newsgroups:", vbCrLf, True)
                                                             '-> comp.lang.basic.visual.misc
Debug.Print cExtract(Str1, "from:", vbCrLf, True)
Debug.Print cExtract(Str1, "from:", vbCrLf, False)
                                                             '-> time to win 32-bit
```

See also: String

ExtractIsolate

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ExtractIsolate extracts a left/right part of a string from a key and a field separator.

Declare Syntax:

Declare Function cExtractIsolate Lib "time2win.dll" (ByVal Txt As String, ByVal Key As String, ByVal FieldSep As String, ByVal LeftOrRight As Integer, ByVal Sensitivity As Integer) As String

Call Syntax:

sResult\$ = cExtract(Txt\$, Key\$, FieldSep\$, LeftOrRight%, Sensitivity%)

Where:

Txt\$ string expression being processed.

Key\$ string expression sought.

FieldSep\$ field separator (any number of chars).

LeftOrRight% EXTRACT_ISOLATE_LEFT isolates the left part

EXTRACT ISOLATE RIGHT isolates the right part

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

sResult\$ the sring associated with the key and the field separator.

Comments:

If Txt\$ is zero-length, the returned string is empty.

If FieldSep\$ is zero-length, the returned string is empty.

The Key\$ is never returned in the returned string. The FieldSep\$ is never returned in the returned string.

This function can be usefull to separate the header and the body of an email or news message (set Key\$ = "").

Examples:

Dim Str1 As String

```
Str1 = Str1 + "Path: ourworld.compuserve.com/homepages/alpouda" & vbCrLf
```

Str1 = Str1 + "From: time to win 32-bit" & vbCrLf

Str1 = Str1 + "Newsgroups: comp.lang.basic.visual.misc" & vbCrLf

Str1 = Str1 + "" & vbCrLf

Str1 = Str1 + "Body Part" & vbCrLf

Debug.Print cExtractIsolate(Str1, "Path:", vbCrLf, EXTRACT_ISOLATE_LEFT, True)

'->

Debug.Print cExtractIsolate(Str1, "Path:", vbCrLf, EXTRACT ISOLATE RIGHT, True)

- '-> ourworld.compuserve.com/homepages/alpouda
- '-> From: time to win 32-bit
- '-> Newsgroups: comp.lang.basic.visual.misc

'->

'-> Body Part

Debug.Print cExtractIsolate(Str1, "Newsgroups:", vbCrLf, EXTRACT_ISOLATE_LEFT, True)

- '-> Path: ourworld.compuserve.com/homepages/alpouda
- '-> From: time to win 32-bit

Debug.Print cExtractIsolate(Str1, "Newsgroups:", vbCrLf, EXTRACT_ISOLATE_RIGHT, True)

- '-> comp.lang.basic.visual.misc
- **'**->
- '-> Body Part

Debug.Print cExtractIsolate(Str1, "", vbCrLf, EXTRACT_ISOLATE_LEFT, True)

- '-> Path: ourworld.compuserve.com/homepages/alpouda
- '-> From: time to win 32-bit
- '-> Newsgroups: comp.lang.basic.visual.misc

Debug.Print cExtractIsolate(Str1, "", vbCrLf, EXTRACT_ISOLATE_RIGHT, True)

'-> Body Part

See also: String

GetOSx

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetOSBuildNumber identifies the build number of the operating system.
GetOSCSDVersion provides arbitrary additional information about the operating system.
GetOSMajorVersion identifies the major version number of the operating system.
GetOSMinorVersion identifies the minor version number of the operating system.
GetOSVersion identifies the version number of the operating system (major.minor version).
GetOSPlatformId identifies the operating system platform in a numerical format.
GetOSPlatformName identifies the operating system platform in a readable format (string).

Declare Syntax:

Declare Function cGetOSBuildNumber Lib "time2win.dll" () As Long Declare Function cGetOSCSDVersion Lib "time2win.dll" () As String Declare Function cGetOSMajorVersion Lib "time2win.dll" () As Long Declare Function cGetOSMinorVersion Lib "time2win.dll" () As Long Declare Function cGetOSVersion Lib "time2win.dll" () As String Declare Function cGetOSPlatformId Lib "time2win.dll" () As Long Declare Function cGetOSPlatformName Lib "time2win.dll" () As String

Call Syntax:

IResult& = cGetOSBuildNumber()
sResult\$ = cGetOSCSDVersion()
IResult& = cGetOSMajorVersion()
IResult& = cGetOSMinorVersion()
sResult& = cGetOSVersion()
IResult& = cGetOSPlatformId()
sResult\$ = cGetOSPlatformName()

Where:

Comments:

Examples:

Dim strDisplay As String

strDisplay = ""

strDisplay = strDisplay + "OSBuildNumber : " & cGetOSBuildNumber() & " (" & (cGetOSBuildNumber() And &HFFFF&) & ":" & ((cGetOSBuildNumber() And &HFFFF0000) / 65536) & ")" & vbCrLf & vbCrLf strDisplay = strDisplay + "OSCSDVersion : " & cGetOSCSDVersion() & vbCrLf & vbCrLf strDisplay = strDisplay + "OSMajorVersion : " & cGetOSMajorVersion() & vbCrLf & vbCrLf strDisplay = strDisplay + "OSMinorVersion : " & cGetOSMinorVersion() & vbCrLf & vbCrLf strDisplay = strDisplay + "OSVersion : " & cGetOSVersion() & vbCrLf & vbCrLf strDisplay = strDisplay + "OSPlatformId : " & cGetOSPlatformId() & vbCrLf & vbCrLf strDisplay = strDisplay + "OSPlatformName : " & cGetOSPlatformName() & vbCrLf & vbCrLf

Debug.Print strDisplay

'On my system:

'OSBuildNumber: 67109814 (950:1024)
'OSCSDVersion:
'OSMajorVersion: 4
'OSMinorVersion: 0
'OSVersion: 4.0
'OSPlatformId: 1
'OSPlatformName: Windows 95

See also : Windows 95

GetBitX2

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetBitB2 return if a given bit (real bit position) in a given BYTE is Set or Reset.
GetBitl2 return if a given bit (real bit position) in a given INTEGER is Set or Reset.
GetBitL2 return if a given bit (real bit position) in a given LONG is Set or Reset.

Declare Syntax:

Declare Function cGetBitB2 Lib "time2win.dll" (ByVal Value As Byte, ByVal Position As Integer) As Integer Declare Function cGetBitl2 Lib "time2win.dll" (ByVal Value As Integer, ByVal Position As Integer) As Integer Declare Function cGetBitL2 Lib "time2win.dll" (ByVal Value As Long, ByVal Position As Integer) As Integer

Call Syntax:

test% = cGetBitB2(Value, Position) test% = cGetBitl2(Value, Position) test% = cGetBitL2(Value, Position)

Where:

Value the value to proceed Position the bit position TRUE if the bit is Set

FALSE if the bit is Reset

Comments:

The first bit in the value is the bit 0.

See also: Binary

SetBitX2

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SetBitB2 set a given bit (real bit position) in a given BYTE to Set state or Reset state. SetBitl2 set a given bit (real bit position) in a given INTEGER to Set state or Reset state. SetBitL2 set a given bit (real bit position) in a given LONG to Set state or Reset state.

Declare Syntax:

Declare Sub cSetBitB2 Lib "time2win.dll" (Value As Byte, ByVal Position As Integer, ByVal BitValue As Integer) Declare Sub cSetBitl2 Lib "time2win.dll" (Value As Integer, ByVal Position As Integer, ByVal BitValue As Integer) Declare Sub cSetBitL2 Lib "time2win.dll" (Value As Long, ByVal Position As Integer, ByVal BitValue As Integer)

Call Syntax:

Call cSetBitB2(Value, Position, BitValue) Call cSetBitI2(Value, Position, BitValue) Call cSetBitL2(Value, Position, BitValue)

Where:

Value the value to proceed the bit position Position BitValue TRUE to Set the bit FALSE to Reset the bit

Comments:

The first bit in the string is the bit 0.

See also: Binary

GetNetUser

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetNetUser retrieves the current default user name or the user name used to establish a network connection.

Declare Syntax:

Declare Function cGetNetUser Lib "time2win.dll" (ErrCode As Integer) As String

Call Syntax:

test\$ = cGetNetConnection(ErrCode)

Where:

ErrCode TRUE is all is ok

<> TRUE if an error has occured

test\$ the returned name of the current default user name

Comments:

Examples:

Debug.Print cGetNetUser(ErrCode%) 'TIME2WIN

See also: Network

Gradient

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Gradient can create a gradient color in 8 effects.

Declare Syntax:

Declare Sub cGradient Lib "time2win.dll" (ByVal hDC As Long, ByVal iLeft As Integer, ByVal iTop As Integer, ByVal iWidth As Integer, ByVal iHeight As Integer, ByVal iGradientStyle As Integer, ByVal iGradientGranularity As Integer, ByVal iGradientColor As Long)

Call Syntax:

Call cGradient(hDC&, iLeft%, iTop%, iWidth%, iHeight%, iGradientStyle%, iGradientGranularity%, IGradientColor&)

Where:

hDC& is the hDC handle of the object (normally Form and Picture)

iLeft% is the left position to start the gradient (normally 0) iTop% is the top position to start the gradient (normally 0)

iWidth% is the width size in PIXEL of the object (use .ScaleMode = 3) iHeight% is the height size in PIXEL of the object (use .ScaleMode = 3)

iGradientStyle% is the gradient style (see constant <u>GradientStyle</u>)

iGradientGranularity% is the gradient granularity (see constant <u>GradientGranularity</u>)

IGradientColor& is the gradient color to start

Comments:

Examples:

Call cGradient(Me.hDC, 0, 0, Me.ScaleWidth, Me.ScaleHeight, mcGradientStyleEnum.mcOuterVGradient, mcGradientGranularity.mcHigh, vbWhite)

See also: Windows

GetNetAdapterMacAddress

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetNetAdapterMacAddress retrieves the encoded address of the network adapter (MAC address).

Declare Syntax:

Declare Function cGetNetAdapterMacAddress Lib "t2win-32.dll" (ByVal iLanAdapter As Integer, ByVal iFormat As Integer, iErrorCode As Integer) As String

Call Syntax:

test\$ = cGetNetAdapterMacAddress(iLanAdapter%, iFormat%, iErrorCode%)

Where:

iLanAdapter% is the number of the adapter (physical address) to use to find the MAC address

iFormat% is the format to receive (1 = aabbccddeeff, 2 = aa-bb-cc-dd-ee-ff)

iErrorCode% >0 if error (see <u>Error Code for Adapter</u>)

-1 if no error

test\$ the encoded address of the network adapter.

Comments:

Examples:

Debug.Print cGetNetAdapterMacAddress(1, 1, iErrorCode%) '006097a8f11e Debug.Print cGetNetAdapterMacAddress(1, 2, iErrorCode%) '00-60-97-a8-f1-1e

Debug.Print cGetNetAdapterMacAddress(0, 2, iErrorCode%) 'iErrorCode = 4 (ADAPTER_BAD_NUMBER)

See also: Network

 $\begin{tabular}{ll} GetNetNumberOfAdapter \\ \textbf{QuickInfo}: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95 \\ \end{tabular}$

Purpose:

GetNetNumberOfAdapter retrieves the number of LAN adapter (number of network card).

Declare Syntax:

Declare Function cGetNetNumberOfAdapter Lib "t2win-32.dll" (iErrorCode As Integer) As Integer

Call Syntax:

test% = cGetNetAdapterMacAddress(iErrorCode%)

Where:

iErrorCode% >0 if error (see Error Code for Adapter)

-1 if no error

the number of LAN adapter (number of network card). test%

Comments:

Examples:

Debug.Print cGetNetNumberOfAdapter(iErrorCode%) ' 1

See also : Network

' error code for adapter
Public Const ADAPTER_NO_ERROR = -1
Public Const ADAPTER_CANT_LOAD_APIDLL = 1
Public Const ADAPTER_CANT_FIND_ENTRYPOINT = 2
Public Const ADAPTER_CANT_BE_ENUMERATED = 3
Public Const ADAPTER_BAD_NUMBER = 4
Public Const ADAPTER_CANT_BE_RESETED = 5
Public Const ADAPTER_CANT_BE_RESETED = 5

Public Const ADAPTER_CANT_BE_READ = 6

GetNetAdapterNumber

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetNetAdapterNumber retrieves the logical address of a physical LAN adapter.

Declare Syntax:

Declare Function cGetNetAdapterNumber Lib "t2win-32.dll" (ByVal iLanAdapter As Integer, iErrorCode As Integer) As Integer

Call Syntax:

test% = cGetNetAdapterNumber(iLanAdapter%, iErrorCode%)

Where:

iLanAdapter% is the number of the adapter to use to find the logical address

iErrorCode% >0 if error (see Error Code for Adapter)

-1 if no error

test% the logical address.

Comments:

Examples:

Debug.Print cGetNetAdapterNumber(1, iErrorCode%)' 7

See also: Network

FileLineCount2

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileLineCount2 counts the total number of lines in an ASCII file.

Declare Syntax:

Declare Function cFileLineCount2 Lib "time2win.dll" (ByVal lpFilename As String) As Long

Call Syntax:

test& = cFileLineCount2(lpFilename\$)

Where:

lpFilename\$ is the name of the file. test& is the total number of lines.

Comments:

Each line (maximum 32768 chars) is determined only if a CR is ending the line.

The returned value can be negative and have the following value :

- -1 error opening file (not exist, not a valid filename).
- -2 error reading file.
- -3 error when allocating memory buffer.

Examples:

test& = cFileLineCount("c:\autoexec.bat")

On my system:

test& = 31

See also: File, FileLineCount

GetCVx

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetCVB, GetCVD, GetCVI, GetCVI, GetCVL and GetCVS returns number in a certain precision given a string containing the IEEE representation of the number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG and SINGLE. These functions is a fully replacement of the cCVx(MID\$(string, offset, length)).

Declare Syntax:

Declare Function cGetCVB Lib "time2win.dll" (Value As String, ByVal iPosition As Integer) As Integer Declare Function cGetCVC Lib "time2win.dll" (Value As String, ByVal iPosition As Integer) As Currency Declare Function cGetCVD Lib "time2win.dll" (Value As String, ByVal iPosition As Integer) As Double Declare Function cGetCVI Lib "time2win.dll" (Value As String, ByVal iPosition As Integer) As Integer Declare Function cGetCVL Lib "time2win.dll" (Value As String, ByVal iPosition As Integer) As Long Declare Function cGetCVS Lib "time2win.dll" (Value As String, ByVal iPosition As Integer) As Single

Call Syntax:

```
test% = cGetCVB(Value$, iPosition%)

test@ = cGetCVC(Value$, iPosition%)

test# = cGetCVD(Value$, iPosition%)

test# = cGetCVD(Value$, iPosition%)

test# = cGetCVI(Value$, iPosition%)

tequivalent to cCVI(Value$, 1 + ((iPosition% - 1) * 2), 2)

test# = cGetCVI(Value$, iPosition%)

tequivalent to cCVI(Value$, 1 + ((iPosition% - 1) * 4), 4)

test# = cGetCVS(Value$, iPosition%)
```

Where:

Value\$ is the string which held IEEE string iPosition% is the position of the IEEE string in Value\$

test? receives the value represented by the IEEE string held in Value\$

Comments:

See also: PutMKx

PutMKx

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

PutMKB, PutMKC, PutMKD, PutMKI, PutMKL, and PutMKS returns a string containing the IEEE representation of a number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG, SINGLE. These functions are a fully replacement of the Mid\$(string, offset, length) = Value.

PutMKBs, PutMKCs, PutMKDs, PutMKLs, and PutMKSs returns a string containing the IEEE representation of a number. Six separate functions are provided, with one each intended for BYTE, CURRENCY, DOUBLE, INTEGER, LONG, SINGLE. These functions are the same as above but must be used for fields in a recordset.

Declare Syntax:

Declare Sub cPutMKB Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal bValue As Byte)
Declare Sub cPutMKC Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal cValue As Currency)
Declare Sub cPutMKD Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal dValue As Double)
Declare Sub cPutMKI Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal iValue As Integer)
Declare Sub cPutMKL Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal IValue As Long)
Declare Sub cPutMKS Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal sValue As Single)

Declare Function cPutMKBs Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal bValue As Byte) As String

Declare Function cPutMKCs Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal cValue As Currency) As String

Declare Function cPutMKDs Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal dValue As Double) As String

Declare Function cPutMKIs Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal iValue As Integer) As String

Declare Function cPutMKLs Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal IValue As Long) As String

Declare Function cPutMKSs Lib "time2win.dll" (Value As String, ByVal iPosition As Integer, ByVal sValue As Single) As String

Call Syntax:

Call cPutMKB(Value\$, iPosition%, bValue)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
1) * 1), 1) = bValue Call cPutMKC(Value\$, iPosition%, cValue@)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% - 1) * 8),
8) = cValue@	
Call cPutMKD(Value\$, iPosition%, sValue#)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
1) * 8), 8) = sValue# Call cPutMKI(Value\$, iPosition%, iValue%)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
1) * 2), 2) = iValue%	equivalent to iviluş(valueş, 1 + ((iFosition) -
Call cPutMKL(Value\$, iPosition%, IValue&)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
1) * 4), 4) = IValue&	
Call cPutMKS(Value\$, iPosition%, sValue!)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
1) * 4), 4) = sValue!	
rs("Field1") = cPutMKBs(rs("Field1"), iPosition%, bValue)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
1) * 1), 1) = bValue	
rs("Field1") = cPutMKCs(rs("Field1"), iPosition%, cValue@)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
1) * 8), 8) = cValue@	to a final court of MC 160 A to A t
rs("Field1") = cPutMKDs(rs("Field1"), iPosition%, sValue#) 1) * 8), 8) = sValue#	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
rs("Field1") = cPutMKIs(rs("Field1"), iPosition%, iValue%)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -
1) * 2), 2) = iValue%	equivalent to may value, i . ((ii obitom)
rs("Field1") = cPutMKLs(rs("Field1"), iPosition%, IValue&)	'equivalent to Mid\$(Value\$, 1 + ((iPosition% -

1) * 4), 4) = IValue&
rs("Field1") = cPutMKSs(rs("Field1"), iPosition%, sValue!)
1) * 4), 4) = sValue!

'equivalent to Mid\$(Value\$, 1 + ((iPosition% -

Where:

Value\$ receives the modification. rs("Field1") is a field in a recordset

iPosition% is the position of the IEEE string in Value\$

xValue the new value

Comments:

See also : $\underline{\text{GetCVx}}$

Public Enum mcGradientStyleEnum mcNoneGradient = 0 mcLeftHGradient = 1 mcRightHGradient = 2 mcTopVGradient = 3 mcBottomVGradient = 4 mcInnerHGradient = 5 mcOuterHGradient = 6 mcInnerVGradient = 7 mcOuterVGradient = 8 End Enum

IsCapsLockOn, IsNumLockOn, IsScrollLockOn

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

IsCapsLockOn verifies if the CAPS LOCK key is On.
IsNumLockOn verifies if the NUM LOCK key is On.
IsInsertOn verifies if the INSERT key is On.
IsScrollLockOn verifies if the SCROLL LOCK key is On.

Declare Syntax:

Declare Function clsCapsLockOn Lib "time2win.dll" () As Integer Declare Function clsInsertOn Lib "time2win.dll" () As Integer Declare Function clsNumLockOn Lib "time2win.dll" () As Integer Declare Function clsScrollLockOn Lib "time2win.dll" () As Integer

Call Syntax:

test% = clsCapsLockOn() test% = clsInsertOn() test% = clsNumLockOn() test% = clsScrollLockOn()

Where:

test% TRUE if the key is On

FALSE if the key is Off

Comments:

Examples:

See also: Windows 95

FilePartAppend, FilePartCopy

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

FilePartAppend appends part of one file to another file starting at or until Offset. FilePartCopy copies part of one file to another file starting at or until Offset.

Declare Syntax:

Declare Function cFilePartAppend Lib "time2win.dll" (ByVal SourceFile As String, ByVal TargetFile As String, ByVal Offset As Long, ByVal FirstPart As Integer) As Long Declare Function cFilePartCopy Lib "time2win.dll" (ByVal SourceFile As String, ByVal TargetFile As String, ByVal Offset As Long, ByVal FirstPart As Integer) As Long

Call Syntax:

test& = cFilePartAppend(SourceFile\$, TargetFile\$, Offset&, FirstPart%) test& = cFilePartCopy(SourceFile\$, TargetFile\$, Offset&, FirstPart%)

Where:

SourceFiles\$ is the source file.

TargetFile\$ is the target filename to append/copy. Offset& is the position in the source file.

Cinstelα is the position in the source file.

FirstPart% is the part of the source file: to Offset or from Offset.

test& > 0 if all is OK (the returned value is the size of the part copied),

< 0 if an error has occured.

Comments:

The returned value can be negative and have the following value:

Public Const COPY_BAD_POSITION = -1
Public Const COPY_BAD_SOURCE_FILENAME = -2
Public Const COPY_BAD_TARGET_FILENAME = -3
Public Const COPY_POSITION_TOO_BIG = -4
Public Const COPY_CANT_OPEN_SOURCE = -5
Public Const COPY_CANT_CREATE_TARGET = -6

-32720 the number of chars in a block for writing differs from the number of chars for reading.

-32730 reading error for SourceFile.

-32740 writing error for TargetFiles.

-32760 allocation error for memory buffer.

Examples:

Debug.Print cFileSize("d:\win95\system\vba2.dll")

Debug.Print cFilePartCopy("d:\win95\system\vba2.dll", "d:\win95\temp\vbleft.hlp", 1234567, True) Debug.Print cFilePartCopy("d:\win95\system\vba2.dll", "d:\win95\temp\vbright.hlp", 1234567, False)

Debug.Print cFilePartAppend("d:\win95\system\vba2.dll", "d:\win95\temp\vbleft.hlp", 1234567, True) Debug.Print cFilePartAppend("d:\win95\system\vba2.dll", "d:\win95\temp\vbright.hlp", 1234567, False)

Debug.Print cFileSize("d:\win95\temp\vbleft.hlp")
Debug.Print cFileSize("d:\win95\temp\vbright.hlp")

Result is:

See also : $\underline{\text{File}}$

IsWin95OSR2

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:	:
----------	---

IsWin95OSR2 determines if the current version of Win95 is the OSR2 or not.

Declare Syntax:

Declare Function clsWin95OSR2 Lib "time2win.dll" () As Integer

Call Syntax:

test% = clsWin95OSR2()

Where:

test% TRUE if it's Win95OSR2

FALSE if not

Comments:

Examples:

See also : Windows 95

RoundNearest

Round

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

Round rounds a number with a precision.
RoundNearest rounds a number to the nearest value.

Declare Syntax:

Declare Function cRound Lib "time2win.dll" (ByVal x As Double, ByVal Precision As Integer) As Double Declare Function cRoundNearest Lib "time2win.dll" (ByVal x As Double, ByVal NearestValue As Long) As Double

Call Syntax :

test# = cRound(x#, Precision%)
test# = cRoundNearest(x#, NearestValue&)

Where:

test# the rounded value x# the value to be rounded

Precision% the number of decimal for the precision

NearestValue& the nearest value

Comments:

Examples:

Debug.Print cRound(3.56376, 3) Debug.Print cRound(3.56376, 1) Debug.Print cRound(3.56376, 0) Debug.Print cRound(3.56376, 2) Debug.Print cRound(1.4999, 3) Debug.Print cRound(1.4899, 2)	'3,564 '3,6 '4 '3,56 '1,5 '1,49
Debug.Print cRoundNearest(12.4, 5) Debug.Print cRoundNearest(12.5, 5) Debug.Print cRoundNearest(12.6, 5) Debug.Print cRoundNearest(18.1, 5) Debug.Print cRoundNearest(0.1, 5) Debug.Print cRoundNearest(2.6, 5)	'10 '15 '15 '20 '0 '5

See also: Math

FileScanHeader, FileScanHeaderForRecipients

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 (Win95/WinNT), MSOffice 95

Purpose:

FileScanHeader searchs a string in a given HEADER file starting at a certain line number. FileScanHeaderForRecipients searchs a string (recipients like "to: ", "cc: ", "bcc: ") in a given HEADER file starting at a certain line number.

Declare Syntax:

Declare Function cFileScanHeader Lib "time2win.dll" (ByVal nFileName As String, ByVal Search As String, ByVal FieldSep As String, StartLine As Long, ByVal Sensitivity As Integer) As String
Declare Function cFileScanHeaderForRecipients Lib "time2win.dll" (ByVal nFileName As String, ByVal Search As String, ByVal FieldSep As String, ByVal ExtractOnlyAddress As Integer, ByVal ExtractAddressSep As String, StartLine As Long, ByVal Sensitivity As Integer) As String

Call Syntax:

test\$ = cFileScanHeader(nFilename\$, Search\$, FieldSep\$, StartLine&, Sensitivity%) test\$ = cFileScanHeaderForRecipients(nFileName\$, Search\$, FieldSep\$, ExtractOnlyAddress%, ExtractAddressSep\$, Sensitivity%)

Where:

nFilename\$ the ASCII file.

Search\$ the string to be searched.

FieldSep\$ field separator (any number of chars).

ExtractOnlyAddress% True if the e-mail address must be only returned

False if the e-mail address and the name must be returned

ExtractAddressSep\$ If empty string the following separators are used "<>" & Chr\$(34) & Chr\$(34) & vbTab

if not empty string:

the first two characters are the delimitors for the e-mail address;
 the next two characters are the delimitors for the alias name;
 the fifth character are the separator beween multi e-mail address.

StartLine& the line number to start the search.

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

test\$ <> "" if success;

= "" if an error occurs.

Comments:

cFileScanHeader and cFileScanHeaderForRecipients can handle lines with a maximum of 4096 chars.

If the nFilename string is an EMPTY string, the returned value is "". If the Search string is an EMPTY string, the returned value is "".

The StartLine can be negative (if an error occurs) and have the following value:

- -1 the string to be searched can't be found.
- -32730 reading error for file 1.
- -32750 opening error for file 1.

Examples:

File "Message Subject.eml":

From: "Alpha Beta" <alpha@beta.edu> To: "Gamma Theta" <gamma@beta.edu>,

```
<epsilon@beta.edu>,
"rho@beta.edu",
Subject: Message Subject
Date: Sun, 29 Mar 1998 22:34:04 +0200
MIME-Version: 1.0
StartLine = 0
Debug.Print cFileScanHeaderForRecipients("c:\cserve\cs3\download\Message Subject.eml", "to: ", ",", False, "",
StartLine, False)
  "Gamma Theta" <gamma@beta.edu> <epsilon@beta.edu> "rho@beta.edu"
StartLine = 0
Debug.Print cFileScanHeaderForRecipients("c:\cserve\cs3\download\Message Subject.eml", "to: ", ",", True, "",
StartLine, False)
  gamma@beta.edu epsilon@beta.edu rho@beta.edu
StartLine = 0
Debug.Print cFileScanHeaderForRecipients("c:\cserve\cs3\download\Message Subject.eml", "to: ", ",", True, "<>"
& Chr$(34) & Chr$(34) & vbCr, StartLine, False)
  gamma@beta.edu
  epsilon@beta.edu
  rho@beta.edu
```

See also: File

IsPrime

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

These routines checks if the specified value is :

IsPrime prime

Declare Syntax:

Declare Function clsPrime Lib "t2win-32.dll" (ByVal Value As Long) As Integer

Call Syntax:

test = clsPrime(Value&)

Where:

Value& the value to proceed test TRUE if test is OK

FALSE if the test fails

Comments:

Examples:

Value& = 1234

test = clsPrime(Value&) 'False

Value& = 1231

test = clsPrime(Value&) 'True

See also : $\underline{\mathsf{ls}}$

PrinterHeight, PrinterOffsetLeft, PrinterOffsetTop, PrinterWidth

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

PrinterHeight returns the height of the printer in inch.

PrinterOffsetLeft returns the left offset of the printer in inch (begin of the printable area).

PrinterOffsetTop returns the top offset of the printer in inch (begin of the printable area).

PrinterWidth returns the height of the printer in inch.

Declare Syntax:

Declare Function cPrinterWidth Lib "time2win.dll" (ByVal hDC As Long) As Single Declare Function cPrinterHeight Lib "time2win.dll" (ByVal hDC As Long) As Single Declare Function cPrinterOffsetLeft Lib "time2win.dll" (ByVal hDC As Long) As Single Declare Function cPrinterOffsetTop Lib "time2win.dll" (ByVal hDC As Long) As Single

Call Syntax:

```
sngResult! = cPrinterWidth(hDC&)
sngResult! = cPrinterHeight(hDC&)
sngResult! = cPrinterOffsetLeft(hDC&)
sngResult! = cPrinterOffsetTop(hDC&)
```

Where:

hDC& is the .hDC property of the printer object (Printer.hDC);

sngResult! is the returned value.

Comments:

Examples:

```
Dim strDisplay As String

strDisplay = ""

strDisplay = strDisplay + "Printer width : " & cPrinterWidth(Printer.hDC) & vbCrLf

strDisplay = strDisplay + "Printer height : " & cPrinterHeight(Printer.hDC) & vbCrLf

strDisplay = strDisplay + "Printer offset left : " & cPrinterOffsetLeft(Printer.hDC) & vbCrLf

strDisplay = strDisplay + "Printer offset top : " & cPrinterOffsetTop(Printer.hDC) & vbCrLf
```

Debug.Print strDisplay

' Printer width : 8,27
' Printer height : 11,69

' Printer offset left : 0,2166667 ' Printer offset top : 0,1666667

See also:

SearchStr

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SearchStr searchs a String array for a given string.

Declare Syntax:

Declare Function cSearchStr Lib "time2win.dll" (Strarray() As String, ByVal Value As String, ByVal Sensitivity As Integer) As Long

Call Syntax:

cnt& = cSearchStr(Strarray(), Value\$, Sensitivity%)

Where:

Strarray() is the string array. Value\$ is the string to search.

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

cnt& > 0 : the position of the searched value;

= -1 : the searched value is not found.

Comments:

Examples:

See Also : Array

FileSearchFromFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileSearchFromLine searchs a string in a given TEXT file starting at a certain line number. FileSearchPatternFromLine searchs a pattern string in a given TEXT file starting at a certain line number.

Declare Syntax:

Declare Function cFileSearchFromLine Lib "time2win.dll" (ByVal nFileName As String, ByVal Search As String, StartLine As Long, ByVal Sensitivity As Integer) As String Declare Function cFileSearchPatternFromLine Lib "time2win.dll" (ByVal nFileName As String, ByVal Search As String, StartLine As Long, ByVal Sensitivity As Integer) As String

Call Syntax:

test\$ = cFileSearchFromLine(nFilename\$, Search\$, StartLine&, Sensitivity%)
test\$ = cFileSearchPatternFromLine(nFilename\$, Search\$, StartLine&, Sensitivity%)

Where:

nFilename\$ the ASCII file.

Search\$ the string or the pattern string to be searched

StartLine& the line number to start the search.

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

test\$ <> "" if success;

= "" if an error occurs.

Comments:

cFileSearchFromLine can handle lines with a maximum of 4096 chars. cFileSearchPatternFromLine can handle lines with a maximum of 4096 chars.

If the nFilename string is an EMPTY string, the returned value is "". If the search string is an EMPTY string, the returned value is "".

The StartLine can be negative (if an error occurs) and have the following value :

- -1 the string to be searched can't be found.
- -32730 reading error for file 1.
- -32750 opening error for file 1.

For cFileSearchPatternFromLine : see PatternExtMatch

Examples:

Dim StartLine As Long
Dim strResult As String
Dim strDisplay As String
Dim File1 As String
Dim Search1 As String

```
File1 = "c:\autoexec.bat"
Search1 = "rem"
```

```
strDisplay = strDisplay & "File Search (all lines occurence, sensitive) : " & Search1 & " in " & File1 & " is " & vbCrLf
StartLine = 0
```

```
strResult = cFileSearchFromLine(File1, Search1, StartLine, True)
While (StartLine > 0)
strDisplay = strDisplay & " line (" & StartLine & ") : " & strResult & vbCrLf
strResult = cFileSearchFromLine(File1, Search1, StartLine, True)
Wend
strDisplay = strDisplay & vbCrLf
Debug.Print strDisplay
```

On my system:

line (9): rem - By Windows 95 Network - D:\WIN95\net start

line (15): rem - By Windows Setup - LH /L:1,40352 D:\WIN95\COMMAND\MSCDEX.EXE /D:ASPICD0 /M:12 /L:R

See also : $\underline{\text{File}}$

GreatCommonDivisor

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GreatCommonDivisort returns the Greatest Common Divisor of two numbers.

Declare Syntax:

Declare Function cGreatCommonDivisor Lib "t2win-32.dll" (ByVal Value1 As Long, ByVal Value2 As Long) As Long

Call Syntax:

test& = cGreatCommonDivisor(Value1&, Value2&)

Where:

Value1& is the first number to be proceeded Value2& is the second number to be proceeded

test& is the great common divisor

Comments:

Examples:

Debug.Print cGreatCommonDivisor(15, 9) '-> 3
Debug.Print cGreatCommonDivisor(123698745, 147896325) '-> 45

See also : Math

Rotate

 $\textbf{QuickInfo: VB 3.0, VB 4.0 (16-Bit), } \underline{\text{VB 4.0 (32-Bit)}} \\ \underline{\text{VB 5.0 | VBA 5.0 \{Win95/WinNT\}}}, \\ \underline{\text{MSOffice 95}} \\$

Purpose:

Rotate returns the Greatest Common Divisor of two numbers.

Declare Syntax:

Declare Function cRotate Lib "t2win-32.dll" (ByVal Value As Long, ByVal Rotation As Integer) As Long

Call Syntax:

test& = cRotate(Value&)

Where:

Value& is the number to be proceeded

test& is the rotated number

Comments:

Examples:

Debug.Print cRotate(1234567, 3) '-> 5671234

See also: Math

SortDigits

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SortDigits sorts the digits of a number.

Declare Syntax:

Declare Function cSortDigits Lib "t2win-32.dll" (ByVal Value As Long) As Long

Call Syntax:

test& = cSortDigits(Value&)

Where:

Value& is the number to be proceeded

test& is the sorted number

Comments:

Examples:

Debug.Print cRotate(43218765) '-> 12345678

See also: Math

SumDigits, SumDigitsAlt, SumDivisors

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SumDigits returns the sum of the digits of a number.
SumDigitsAlt returns the alternating sum of the digits of a number.
SumDivisors returns the sum of all possible divisors of a number, number not included.

Declare Syntax:

Declare Function cSumDigits Lib "t2win-32.dll" (ByVal Value As Long) As Long Declare Function cSumDigitsAlt Lib "t2win-32.dll" (ByVal Value As Long) As Long Declare Function cSumDivisors Lib "t2win-32.dll" (ByVal Value As Long) As Long

Call Syntax:

test& = cSumDigits(Value&) test& = cSumDigitsAlt(Value&) test& = cSumDivisors(Value&)

Where:

Value& is the number to be proceeded

test& is the result

Comments:

For SumDigitsAlt: even digits are substracted, odd digits are added.

Examples:

See also: Math

WrapLine

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

WrapLine wraps a line in multiple lines with a maximum length by line.

Declare Syntax:

Declare Function cWrapLine Lib "time2win.dll" (ByVal Text As String, ByVal Length As Integer, ByVal Separator As String, ByVal EndOfLine As String) As String

Call Syntax:

test\$ = cWrapLine(Text\$, Length%, Separator\$, EndOfLine\$)

Where:

Text\$ is the string to be wrapped.
Length% is the maximum length by lines.
Separator\$ is the word separator.

EndOfLine\$ is the end of line characters on each line.

Test\$ is the wrapped string.

Comments:

The size of the string must be greater than 1.

Examples:

Dim Str1 As String

Str1 = "This is a line with some text, which is to long "
Str1 = Str1 & "for the purpose we need it for. This "

Str1 = Str1 & "means we have to do some word wrapping."
Str1 = Str1 & "That's why we need the cWrapLine() function."

Debug.Print cWrapLine(Str1, 30, " ", vbCrLf)

This is a line with some text, which is to long for the purpose we need it for. This means we have to do some word wrapping. That's why we need the cWrapLine() function.

See also: String

SetCapsLock, SetNumLock, SetScrollLock

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

SetCapsLock sets the CAPS LOCK key On or Off.
SetInsert sets the NUM LOCK key On or Off.
SetNumLock sets the NUM LOCK key On or Off.
SetScrollLock sets the SCROLL LOCK key On or Off.

Declare Syntax:

Declare Function cSetCapsLock Lib "time2win.dll" (ByVal iOnOff As Integer) As Integer Declare Function cSetInsert Lib "time2win.dll" (ByVal iOnOff As Integer) As Integer Declare Function cSetNumLock Lib "time2win.dll" (ByVal iOnOff As Integer) As Integer Declare Function cSetScrollLock Lib "time2win.dll" (ByVal iOnOff As Integer) As Integer

Call Syntax:

test% = cSetCapsLock(iOnOff%) test% = cSetInsert(iOnOff%) test% = cSetNumLock(iOnOff%) test% = cSetScrollLock(iOnOff%)

Where:

iOnOff% True to set the key On

False to set the key Off

test% TRUE if no error

FALSE if error

Comments:

Examples:

See also: Windows 95

' definition for error type for FileWrapLine

```
Public Const WRAP_SEPARATOR_IS_EMPTY = -1
Public Const WRAP_EOL_IS_EMPTY = -2
Public Const WRAP_BAD_LENGTH_OF_LINE = -3
Public Const WRAP_CANT_INITIALIZE_IN_LINE_BUFFER = -4
Public Const WRAP_CANT_INITIALIZE_OUT_LINE_BUFFER = -5
Public Const WRAP_CANT_INITIALIZE_WORD_BUFFER = -6
Public Const WRAP_CANT_INITIALIZE_BUFFER_1 = -7
Public Const WRAP_CANT_OPEN_SOURCE = -8
Public Const WRAP_CANT_CREATE_TARGET = -9
Public Const WRAP_CANT_READ_LINE = -10
Public Const WRAP_CANT_WRITE_LINE = -11
```

TrashFile

 $\textbf{QuickInfo: VB 3.0, VB 4.0 (16-Bit), } \underline{\text{VB 4.0 (32-Bit)}} \\ | \underline{\text{VB 5.0}} \\ | \underline{\text{VBA 5.0 \{Win95/WinNT\}}}, \\ \underline{\text{MSOffice 95}} \\ | \underline{\text{MSOffice 95}} \\ | \underline{\text{VB 4.0 (32-Bit)}} \\ | \underline{\text{VB 5.0 [VBA 5.0 \{Win95/WinNT\}}}, \\ \underline{\text{MSOffice 95}} \\ | \underline{\text{MSOffice 95}}$

Purpose:

TrashFile sends a file to the trash with persistance and confirmation.

Declare Syntax:

Declare Function cTrashFile Lib "time2win.dll" (ByVal sFileName As String, ByVal iPermanent As Integer, ByVal iConfirm As Integer) As Integer

Call Syntax:

test% = cTrashFile(sFileName\$, iPermanent%, iConfirm%)

Where:

sFileName\$ the filename to proceed

iPermanent% = False : preserves undo information, if possible;

= True : doesn't preserve undo information.

iConfirm% = False : responds with "yes to all" for any dialog box that is displayed;

= True : doesn't respond "yes to all"

test% TRUE if all is OK

<> TRUE if an error has occured

Comments:

See also: Windows

' error codes for GetAllSettings

Public Const GET_ALL_BAD_DIMENSION = 0
Public Const GET_ALL_CANT_OPEN_SECTION = -1
Public Const GET_ALL_NOT_ENOUGH_ELEMENT = -2

ArrayLookUp

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

ArrayLookUp searchs an element in the first dimension of a two-dimensionnal string array and returns value in the second dimension.

Declare Syntax:

Declare Function cArrayLookUp Lib "time2win.dll" (Strarray() As String, ByVal Value As String, ByVal Sensitivity As Integer) As String

Call Syntax:

test\$ = cArrayLookUp(Strarray(), Value\$, Sensitivity%)

Where:

Strarray() is the string array (2 dimension).

Value\$ is the string to search.

Sensitivity% TRUE if the search must be case-sensitive,

FALSE if the search is case-insensitive.

test\$ the returned value corresponding to Value\$

Comments:

This function can be used with <u>cGetAllSettings</u> to search the value for a specified key.

Examples:

```
Dim StrArray(1 TO 5, 1 TO 2) As String
```

```
StrArray(1,1) = "Top": StrArray(1,2) = "75 "
StrArray(1,1) = "Left": StrArray(1,2) = "50"
StrArray(1,1) = "Test": StrArray(1,2) = "1234567890"

Debug.Print "> ", cArrayLookUp(Strarray(), "test", False)
Debug.Print "> ", cArrayLookUp(Strarray(), "top", False)
Debug.Print "> ", cArrayLookUp(Strarray(), "test", True)
Debug.Print "> ", cArrayLookUp(Strarray(), "top", True)

> 1234567890
> 75
>
```

See Also: Array

GetShortPathName

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT4.0x}, MSOffice 95

Purpose:

GetShortPathName retrieves the short path form of a specified input path.

Declare Syntax:

Declare Function cGetShortPathName Lib "time2win.dll" (ByVal sLongPath As String) As String

Call Syntax:

test\$ = cGetShortPathName(sLongPath\$)

Where:

sLongPath\$ file to be used to find the short path name. test\$ the short path name else an empty string.

Comments:

The sLongPath\$ can be a file or a directory.

Examples:

See also : $\underline{\text{Windows } 95}$

FileWrapLine

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

FileWrapLine wraps a file in multiple lines with a maximum length by line.

Declare Syntax:

Declare Function cFileWrapLine Lib "time2win.dll" (ByVal sSourceFile As String, ByVal sTargetFile As String, ByVal Length As Long, ByVal Separator As String, ByVal EndOfLine As String) As Long

Call Syntax:

Test& = cFileWrapLine(sSourceFile\$, sTargetFile\$, Length%, Separator\$, EndOfLine\$)

Where:

sSourceFile\$ is the source file to be wrapped.
sTargetFile\$ is the target file wrapped.
Length% is the maximum length by lines.
Separator\$ is the word separator.

EndOfLine\$ is the end of line characters on each line.

Test% > 0 : the size of the target file.

< 0 : see error code.

Comments:

Examples:

Test& = cFileWrapLine("c:\autoexec.bat", "c:\autoexec.wrap", 78, " ", vbCrLf)

See also: File

GetPrinterX, SetPrinterX

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

GetPrinterCopies gets the number of copies of a printer.
GetPrinterDefaultSource gets the default source of a printer.
GetPrinterDitherType gets the dither type of pictures of a printer.
GetPrinterOrientation gets the paper orientation of a printer.
GetPrinterPaper gets the paper size of a printer.

GetPrinterPaper gets the paper size of a printer GetPrinterQuality gets the quality for a printer.

SetPrinterCopies sets the number of copies for a printer.

SetPrinterDefault sets the default printer.

SetPrinterDefaultSource sets the default source for a printer.

SetPrinterDitherType sets the dither type of pictures for a printer.

SetPrinterOrientation sets the paper orientation for a printer.

SetPrinterQuality sets the quality for a printer.

Declare Syntax:

Declare Function cGetPrinterCopies Lib "time2win.dll" (ByVal sPrinterName As String, iCopies As Integer) As Integer Declare Function cGetPrinterDefaultSource Lib "time2win.dll" (ByVal sPrinterName As String, iDefaultSource As Integer) As Integer

Declare Function cGetPrinterDitherType Lib "time2win.dll" (ByVal sPrinterName As String, iDitherType As Integer) As Integer

Declare Function cGetPrinterOrientation Lib "time2win.dll" (ByVal sPrinterName As String, iOrientation As Integer) As Integer

Declare Function cGetPrinterQuality Lib "time2win.dll" (ByVal sPrinterName As String, iQuality As Integer) As Integer Declare Function cGetPrinterPaper Lib "time2win.dll" (ByVal sPrinterName As String, iSize As Integer) As Integer

Declare Function cSetPrinterCopies Lib "time2win.dll" (ByVal sPrinterName As String, ByVal iCopies As Integer) As Integer

Declare Function cSetPrinterDefault Lib "time2win.dll" (ByVal sPrinterName As String) As Integer

Declare Function cSetPrinterDefaultSource Lib "time2win.dll" (ByVal sPrinterName As String, ByVal iDefaultSource As Integer) As Integer

Declare Function cSetPrinterDitherType Lib "time2win.dll" (ByVal sPrinterName As String, ByVal iDitherType As Integer) As Integer

Declare Function cSetPrinterOrientation Lib "time2win.dll" (ByVal sPrinterName As String, ByVal iOrientation As Integer) As Integer

Declare Function cSetPrinterQuality Lib "time2win.dll" (ByVal sPrinterName As String, ByVal iQuality As Integer) As Integer

Call Syntax:

intResult% = cGetPrinterCopies(sPrinterName\$, iCopies%)
intResult% = cGetPrinterDefaultSource(sPrinterName\$, iDefaultSource%)
intResult% = cGetPrinterDitherType(sPrinterName\$, iDitherType%)
intResult% = cGetPrinterOrientation(sPrinterName\$, iOrientation%)
intResult% = cGetPrinterPaper(sPrinterName\$, iSize%)
intResult% = cGetPrinterQuality(sPrinterName\$, iQuality%)

intResult% = cSetPrinterCopies(sPrinterName\$, iCopies%)
intResult% = cSetPrinterDefault(sPrinterName\$)
intResult% = cSetPrinterDefaultSource(sPrinterName\$, iDefaultSource%)
intResult% = cSetPrinterDitherType(sPrinterName\$, iDitherType%)
intResult% = cSetPrinterOrientation(sPrinterName\$, iOrientation%)
intResult% = cSetPrinterQuality(sPrinterName\$, iQuality%)

Where:

sPrinterName\$ is the name of the printer to be proceeded (can be "LPTx:" or the name of the printer); intResult% see error codes

Comments:

To get the default printer, use GetDefaultPrinter.

Examples:

Debug.Print cSetPrinterCopies("LPT1:", 7)

Debug.Print cSetPrinterDefaultSource("LPT1:", SP SOURCE LOWER)

Debug.Print cSetPrinterDitherType("LPT1:", SP DITHER LINEART)

Debug.Print cSetPrinterOrientation("LPT1:", SP_ORIENTATION_PORTRAIT)

Debug.Print cSetPrinterOrientation("Desktop Printer", SP_ORIENTATION_PORTRAIT)
Debug.Print cSetPrinterOrientation("Network Printer", SP_ORIENTATION_LANDSCAPE)

Debug.Print cSetPrinterQuality("LPT1:", SP_QUALITY_HIGH)

Dim iValue As Integer

Debug.Print cGetPrinterCopies("LPT1:", iValue), iValue

Debug.Print cGetPrinterDefaultSource("LPT1:", iValue), iValue

Debug.Print cGetPrinterDitherType("LPT1:", iValue), iValue

Debug.Print cGetPrinterOrientation("LPT1:", iValue), iValue

Debug.Print cGetPrinterOrientation("Desktop Printer", iValue), iValue

Debug.Print cGetPrinterOrientation("Network Printer", iValue), iValue

Debug.Print cGetPrinterPaper("LPT1:", iValue), iValue

Debug.Print cGetPrinterQuality("LPT1:", iValue), iValue

Debug.Print cGetDefaultPrinter("Hp LaserJet III")

Debug.Print cSetPrinterDefault("Hp LaserJet III")

See also: Printer

' codes for SetPrinterDefaultSource

' error codes for cSetPrinterX

Public Const SP_SUCCESS = -1
Public Const SP_PRINTER_NAME_EMPTY = 1
Public Const SP_CANT_OPEN_PRINTER = 2
Public Const SP_CANT_GET_PRINTER_PASS1 = 3
Public Const SP_CANT_ALLOCATE_MEMORY = 4
Public Const SP_CANT_LOCK_MEMORY = 5
Public Const SP_CANT_GET_PRINTER_PASS2 = 6
Public Const SP_CANT_UPDATE_DRIVER = 7
Public Const SP_CANT_SET_PRINTER = 8
Public Const SP_COMMAND_NOT_SUPPORTED = 9

' codes for SetPrinterOrientation

Public Const SP_ORIENTATION_PORTRAIT = 1 'Portrait Public Const SP_ORIENTATION_LANDSCAPE = 2 'Landscape

'codes for SetPrinterQuality
Public Const SP_QUALITY_DRAFT = -1
Public Const SP_QUALITY_LOW = -2
Public Const SP_QUALITY_MEDIUM = -3
Public Const SP_QUALITY_HIGH = -4

' codes for SetPrinterDitherType
Public Const SP_DITHER_NONE = 1
Public Const SP_DITHER_COARSE = 2
Public Const SP_DITHER_FINE = 3
Public Const SP_DITHER_LINEART = 4
Public Const SP_DITHER_GRAYSCALE = 5
Public Const SP_DITHER_USER = 256

- ' No dithering
 ' Dither with a coarse brush
 ' Dither with a fine brush
- ' LineArt dithering
- ' Device does grayscaling
 ' Device-specific dithers start here

' codes for GetPrinterSize

Public Const DM_PAPER_FIRST = 1	
Public Const DM PAPER LETTER = 1	' Letter 8 1/2 x 11 in
Public Const DM_PAPER_LETTERSMALL = 2	Letter Small 8 1/2 x 11 in
Public Const DM PAPER TABLOID = 3	' Tabloid 11 x 17 in
Public Const DM_PAPER_LEDGER = 4	Ledger 17 x 11 in
Public Const DM PAPER LEGAL = 5	
	Legal 8 1/2 x 14 in
Public Const DM_PAPER_STATEMENT = 6	' Statement 5 1/2 x 8 1/2 in
Public Const DM_PAPER_EXECUTIVE = 7	' Executive 7 1/4 x 10 1/2 in
Public Const DM_PAPER_A3 = 8	' A3 297 x 420 mm
Public Const DM_PAPER_A4 = 9	' A4 210 x 297 mm
Public Const DM_PAPER_A4SMALL = 10	'A4 Small 210 x 297 mm
Public Const DM_PAPER_A5 = 11	' A5 148 x 210 mm
Public Const DM_PAPER_B4 = 12	' B4 (JIS) 250 x 354
Public Const DM_PAPER_B5 = 13	' B5 (JIS) 182 x 257 mm
Public Const DM_PAPER_FOLIO = 14	' Folio 8 1/2 x 13 in
Public Const DM_PAPER_QUARTO = 15	' Quarto 215 x 275 mm
Public Const DM_PAPER_10X14 = 16	' 10x14 in
Public Const DM_PAPER_11X17 = 17	' 11x17 in
Public Const DM_PAPER_NOTE = 18	' Note 8 1/2 x 11 in
Public Const DM_PAPER_ENV_9 = 19	'Envelope #9 3 7/8 x 8 7/8
Public Const DM_PAPER_ENV_10 = 20	'Envelope #10 4 1/8 x 9 1/2
Public Const DM_PAPER_ENV_11 = 21	'Envelope #11 4 1/2 x 10 3/8
Public Const DM_PAPER_ENV_12 = 22	' Envelope #12 4 \276 x 11
Public Const DM_PAPER_ENV_14 = 23	'Envelope #14 5 x 11 1/2
Public Const DM_PAPER_CSHEET = 24	' C size sheet
Public Const DM_PAPER_DSHEET = 25	' D size sheet
Public Const DM_PAPER_ESHEET = 26	' E size sheet
Public Const DM_PAPER_ENV_DL = 27	'Envelope DL 110 x 220mm
Public Const DM_PAPER_ENV_C5 = 28	' Envelope C5 162 x 229 mm
Public Const DM_PAPER_ENV_C3 = 29	'Envelope C3 324 x 458 mm
Public Const DM_PAPER_ENV_C4 = 30	' Envelope C4 229 x 324 mm
Public Const DM_PAPER_ENV_C6 = 31	' Envelope C6 114 x 162 mm
Public Const DM_PAPER_ENV_C65 = 32	' Envelope C65 114 x 229 mm
Public Const DM_PAPER_ENV_B4 = 33	' Envelope B4 250 x 353 mm
Public Const DM_PAPER_ENV_B5 = 34	' Envelope B5 176 x 250 mm
Public Const DM_PAPER_ENV_B6 = 35	' Envelope B6 176 x 125 mm
Public Const DM_PAPER_ENV_ITALY = 36	'Envelope 110 x 230 mm
Public Const DM PAPER ENV MONARCH = 37	' Envelope Monarch 3.875 x 7.5 in
Public Const DM PAPER ENV PERSONAL = 38	' 6 3/4 Envelope 3 5/8 x 6 1/2 in
Public Const DM_PAPER_FANFOLD_US = 39	'US Std Fanfold 14 7/8 x 11 in
Public Const DM_PAPER_FANFOLD_STD_GERMAN = 40	' German Std Fanfold 8 1/2 x 12 in
Public Const DM_PAPER_FANFOLD_LGL_GERMAN = 41	' German Legal Fanfold 8 1/2 x 13 in
Public Const DM_PAPER_ISO_B4 = 42	' B4 (ISO) 250 x 353 mm
Public Const DM PAPER JAPANESE POSTCARD = 43	' Japanese Postcard 100 x 148 mm
Public Const DM_PAPER_9X11 = 44	' 9 x 11 in
Public Const DM PAPER 10X11 = 45	' 10 x 11 in
Public Const DM_PAPER_15X11 = 46	' 15 x 11 in
Public Const DM PAPER ENV INVITE = 47	' Envelope Invite 220 x 220 mm
Public Const DM_PAPER_RESERVED_48 = 48	'RESERVEDDO NOT USE
Public Const DM PAPER RESERVED 49 = 49	'RESERVEDDO NOT USE
Public Const DM PAPER LETTER EXTRA = 50	Letter Extra 9 \275 x 12 in
Public Const DM PAPER LEGAL EXTRA = 51	Legal Extra 9 \275 x 15 in
Public Const DM_PAPER_TABLOID_EXTRA = 52	'Tabloid Extra 11.69 x 18 in
Public Const DM PAPER A4 EXTRA = 53	'A4 Extra 9.27 x 12.69 in
Public Const DM_PAPER_LETTER_TRANSVERSE = 54	Letter Transverse 8 \275 x 11 in
Public Const DM PAPER A4 TRANSVERSE = 55	'A4 Transverse 210 x 297 mm
Public Const DM_PAPER_LETTER_EXTRA_TRANSVERSE =	
Public Const DM_PAPER_A_PLUS = 57	'SuperA/SuperA/A4 227 x 356 mm
Public Const DM PAPER B PLUS = 58	' SuperB/SuperB/A3 305 x 487 mm
Public Const DM_PAPER_LETTER_PLUS = 59	'Letter Plus 8.5 x 12.69 in
1 45/10 55/10(DM_17/1 E1_EE1 1E1_1 E00 = 00	201101 1 100 0.0 X 12.00 III

Public Const DM_PAPER_A4_PLUS = 60

Public Const DM_PAPER_A5_TRANSVERSE = 61

Public Const DM PAPER B5 TRANSVERSE = 62

Public Const DM PAPER A3 EXTRA = 63

Public Const DM PAPER A5 EXTRA = 64

Public Const DM_PAPER_B5_EXTRA = 65

Public Const DM PAPER A2 = 66

Public Const DM PAPER A3 TRANSVERSE = 67

Public Const DM_PAPER_A3_EXTRA_TRANSVERSE = 68

Public Const DM_PAPER_LAST = DM_PAPER_A3_EXTRA_TRANSVERSE

Public Const DM_PAPER_USER = 256

'A4 Plus 210 x 330 mm

'A5 Transverse 148 x 210 mm

' B5 (JIS) Transverse 182 x 257 mm

' A3 Extra 322 x 445 mm

' A5 Extra 174 x 235 mm

' B5 (ISO) Extra 201 x 276 mm

'A2 420 x 594 mm

'A3 Transverse 297 x 420 mm

'A3 Extra Transverse 322 x 445 mm

RasGetCountryInfo

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RasGetCountryInfo retrieves country-specific dialing information from the Windows Telephony list of countries.

Declare Syntax:

Declare Function cRasGetCountryInfo Lib "time2win.dll" (ByVal iCountry As Integer, COUNTRYINFO As tagCOUNTRYINFO, ByVal iFirstNext As Integer) As Integer

Call Syntax:

intResult% = cRasGetCountryInfo(iCountry%, COUNTRYINFO, iFirstNext%)

Where:

iCountry% = 0 : can enumerate all country code;

<>0 : retrieves information about a specific country code

COUNTRYINFO is the type'd tagCOUNTRYINFO;

iFirstNext% TRUE: begin the enumeration and return the first country;

FALSE: continue the enumeration and return the next country;

intResult% RAS SUCCESS : all is ok

RAS CANT ACCESS COUNTRY: can't access the specified country

RAS_NO_MORE_COUNTRY : no more country

Comments:

Examples:

```
Dim CI As tagCOUNTRYINFO

intResult = cRasGetCountryInfo(0, CI, True)

Do While (intResult = RAS_SUCCESS)

Debug.Print CI.iCountryCode, CI.iCountryID, CI.sCountryName

intResult = cRasGetCountryInfo(0, CI, False)

Loop
```

See also: Remote Access Service

Remote Access Service : Overview

RasGetCountryInfo countries.

retrieves country-specific dialing information from the Windows Telephony list of

EnumPrintersX

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

EnumPrinters1 enumerates all printers (data returned are description, printer name, comment).

EnumPrinters2 enumerates all printers (data returned are for remote printers).

EnumPrinters5 enumerates all printers (data returned are printer name, port name).

Declare Syntax:

Declare Function cEnumPrinters1 Lib "time2win.dll" (PRINTER1 As tagPRINTER1, ByVal iFirstNext As Integer) As Integer

Declare Function cEnumPrinters2 Lib "time2win.dll" (ByVal sServerName As String, PRINTER2 As tagPRINTER2, ByVal iFirstNext As Integer) As Integer

Declare Function cEnumPrinters5 Lib "time2win.dll" (PRINTER5 As tagPRINTER5, ByVal iFirstNext As Integer) As Integer

Call Syntax:

```
intResult% = cEnumPrinters1(PRINTER1, FirstNext%)
intResult% = cEnumPrinters2(PRINTER2, FirstNext%)
intResult% = cEnumPrinters5(PRINTER5, FirstNext%)
```

Where:

sServerName is the name of the server for enumerate the printer (CAN'T BE THE SERVER ITSELF);

PRINTER1 is the type'd tagPRINTER1; PRINTER2 is the type'd tagPRINTER2; PRINTER5 is the type'd tagPRINTER5:

FirstNext% TRUE: begin the enumeration and return the first job:

FALSE: continue the enumeration and return the next job;

intResult% EP SUCCESS : all is ok

EP_STRANGE_ERROR: unknow error when accessing the enumeration

EP_CANT_ENUMERATE_MORE_PRINTERS : no more printers

Comments:

For cEnumPrinters1:

For cEnumPrinters2:

For cEnumPrinters5:

Examples:

Dim intResult As Integer

Dim P1 As tagPRINTER1
Dim P2 As tagPRINTER2
Dim P5 As tagPRINTER5

Debug.Print "EnumPrinters1" & vbCrLf

intResult = cEnumPrinters1(P1, True)

```
Do While (intResult = EP_SUCCESS)
      Debug.Print P1.sDescription, P1.sPrinterName, P1.sComment
      intResult = cEnumPrinters1(P1, False)
   Loop
   Debug.Print "EnumPrinters2" & vbCrLf
  intResult = cEnumPrinters2(P2, True)
Do While (intResult = EP_SUCCESS)
      Debug.Print P2.sServerName, P2.sPrinterName, P2.sPortName, P2.sShareName, P2.sDriverName,
P2.sComment, P2.sLocation
      intResult = cEnumPrinters2(P2, False)
   Loop
   Debug.Print "EnumPrinters5" & vbCrLf
   intResult = cEnumPrinters5(P5, True)
   Do While (intResult = EP_SUCCESS)
      Debug.Print P5.sPrinterName, P5.sPortName
     intResult = cEnumPrinters5(P5, False)
   Loop
```

See also : Printer

' constant for RunFile

Public Const SW_HIDE = 0

Public Const SW_SHOWNORMAL = 1 Public Const SW_NORMAL = 1

Public Const SW_SHOWMINIMIZED = 2 Public Const SW_SHOWMAXIMIZED = 3

Public Const SW_MAXIMIZE = 3

Public Const SW_SHOWNOACTIVATE = 4

Public Const SW_SHOW = 5

Public Const SW_MINIMIZE = 6
Public Const SW_SHOWMINNOACTIVE = 7
Public Const SW_SHOWNA = 8
Public Const SW_RESTORE = 9
Public Const SW_SHOWNESTORE = 9

Public Const SW_SHOWDEFAULT = 10

Public Const SW_MAX = 10

RunFile

QuickInfo: VB 3.0, VB 4.0 (16-Bit), VB 4.0 (32-Bit) | VB 5.0 | VBA 5.0 {Win95/WinNT}, MSOffice 95

Purpose:

RunFile opens a specified executable or document file.

Declare Syntax:

Declare Function cRunFile Lib "time2win.dll" (ByVal sFileName As String, ByVal sFileParameter As String, ByVal sFilePath As String, ByVal iRunStyle As Integer) As Long

Call Syntax:

IngResult& = cRunFile(sFileName\$, sFileParameter\$, sFilePath\$, iRunStyle%)

Where:

sFileName\$ is the filename to be executed.

sFileParameter\$ is the parameter list to be passed to the filename.

sFilePath\$ is the file path to be the default directory.

iRunStyle% specifies how the application is to be shown when it is opened. Use one the following

constant.

IngResult& <= 32 : an error has occured

> 32 : is the instance handle of the application that was run.

Comments:

Examples:

Debug.Print cRunFile("notepad.exe", "c:\temp\shortcut.test", "c:\temp", SW_NORMAL)

See also: Windows