

MBS REALbasic Compression Plugin Documentation

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0.1 Introduction

This is the PDF version of the documentation for the REALbasic Plug-in from Monkeybread Software Germany. Plugin part: MBS REALbasic Compression Plugin

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Chapter 2

Compression

2.1 class ZLibCompressMBS

class ZLibCompressMBS

class, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for zlib compression.

2.1.1 Methods

Adler32(start as integer, data as string) as integer

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Calculates a 32bit Adler Checksum about a given string.

Notes:

Set start to 0 for the first call.

Later you can pass the result as the new start value to add data to your checksum.

This function is part of the zlib library and given as a free utility function to this class.

close

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin
version: 3.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources of this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

Constructor(BufferSize as integer=20000)

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin
version: 9.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The constructor.

Notes:

The buffer size you specify is the output buffer size.
If this size is small, you need to flush with ProcessZip.

CRC32(start as integer, data as string) as integer

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin
version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Calculates a 32bit Checksum about a given string.

Notes:

Set start to 0 for the first call.

Later you can pass the result as the new start value to add data to your checksum.

This function is part of the zlib library and given as a free utility function to this class.

EndZip

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Finalizes the current compression stream.

Notes:

You may check the Output buffer after this.

Error is set.

GetOutput as string

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the contents of the output buffer.

Notes: The buffer is cleared after this function returns.

InitZip(level as integer)

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Initializes the stream.

Notes:

Level is from 0 to 9.

Error is set.

InputAvail as integer

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the number of bytes available in the input buffer.

OutputSize as integer

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The size of bytes available in the output buffer.

ProcessZip(Flush as boolean=false)

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Does zip compression.

Notes:

Reduces the size of the input buffer and writes new data to the output buffer.

If the input buffer is not empty after this call, you need to call it again, but empty the output buffer before. Error is set.

If flush is true, the data is flushed to output. Using flush=true all the the time will slow down compression, so use it only on the end to clear the output buffers.

SetInput(data as string) as boolean

method from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Fills the input buffer.

Notes:

Returns true if successful.

The current input buffer size is 128 K, so you may use something smaller.

2.1.2 Properties

CRC as Integer

property from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The Adler32 CRC value of the uncompressed data.

Notes: (Read only property)

Error as Integer

property from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code.

Notes:

Values:

Z_ OK	0	(no error)
Z_ STREAM_ END	1	(Should be handles by the plugin inside)
Z_ NEED_ DICT	2	
Z_ ERRNO	-1	
Z_ STREAM_ ERROR	-2	
Z_ DATA_ ERROR	-3	
Z_ MEM_ ERROR	-4	
Z_ BUF_ ERROR	-5	
Z_ VERSION_ ERROR	-6	

(Read and Write property)

ErrorMessage as String

property from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The error message for the last error.

Notes: (Read only property)

OutputBufferSize as Integer

property from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The output buffer size used in the constructor.

Notes: (Read only property)

TotalInput as Integer

property from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes processed so far.

Notes: (Read and Write property)

TotalOutput as Integer

property from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes processed so far.

Notes: (Read and Write property)

Version as String

property from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The version string of the used zlib library.

Notes: (Read only property)

2.1.3 Constants

kASCII = 1

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the data type constants.

kBEST_COMPRESSION = 9

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

kBEST_SPEED = 1

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

kBINARY = 0

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the data type constants.

kBLOCK = 5

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kBUF_ERROR = -5

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kDATA_ERROR = -3

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kDEFAULT_COMPRESSION = -1

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

kDEFAULT_STRATEGY = 0

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kDEFLATED = 8

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression method constants.

Notes: The deflate compression method (the only one supported in this version)

kERRNO = -1

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kFILTERED = 1

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kFINISH = 4

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kFIXED = 4

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kFULL_FLUSH = 3

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kHUFFMAN_ONLY = 2

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kMEM_ERROR = -4

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kNEED_DICT = 2

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kNO_COMPRESSION = 0

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

kNO_FLUSH = 0

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kNULL = 0

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The null value.

kOK = 0

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kPARTIAL_FLUSH = 1

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kRLE = 3

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kSTREAM_END = 1

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kSTREAM_ERROR = -2

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kSYNC_FLUSH = 2

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kTEXT = 1

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the data type constants.

kUNKNOWN = 2

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the data type constants.

kVERSION_ERROR = -6

const from class ZLibCompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

2.2 class ZipFileInfoMBS

class ZipFileInfoMBS

class, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: This class keeps the metadata for a zip file.

2.2.1 Methods

SetDate(d as date)

method from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 10.0, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Sets the date with a REALbasic date object.

Notes: A convenience function to make your life easier.

2.2.2 Properties

Day as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

day of the month - [1,31]
(Read and Write property)

DosDate as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The date in the 32bit DOS format.

Notes:

If dos_date = 0, the plugin will calculate it from the day, month, year, hour, minute and second properties. (Read and Write property)

ExternalFileAttributes as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: external file attributes.

Notes:

A 32 bit value.

(Read and Write property)

Hour as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

hours since midnight - [0,23]

(Read and Write property)

InternalFileAttributes as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Internal file attributes.

Notes:

A 16 bit value.

(Read and Write property)

Minute as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

minutes after the hour - [0,59]

(Read and Write property)

Month as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

months since January - [0,11]

(Read and Write property)

Second as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

seconds after the minute - [0,59]

(Read and Write property)

Year as integer

property from class ZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

years - [1980..2044]

(Read and Write property)

2.3 class ZipMBS

class ZipMBS

class, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The class for writing to a zip file.

Notes:

This is a simple class which uses zlib and has some limitations:

- only deflate as compression method
- only one date per file is preserved
- no resource forks on Mac OS
- no encoding handling
- only 2 GB per zip file.

Based on libunzip.

2.3.1 Methods

Close(GlobalComment as string=’')

method from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Close the zipfile.

CloseFile

method from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Close the current file in the zipfile.

CloseFileRaw(UncompressedSize as integer, CRC32 as integer)

method from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Close the current file in the zipfile.

Notes:

For files opened with parameter raw=true in CreateFile
UncompressedSize and crc32 are value for the uncompressed size,

Constructor(file as folderitem, append as integer)

method from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Create a zipfile.

Notes:

If the file exist and append is AppendStatusCreateAfter, the zip will be created at the end of the file.

(useful if the file contain a self extractor code)

If the file exist and append is AppendStatusAddInZip, we will add files in existing zip (be sure you don't add file that doesn't exist)

If the zipfile cannot be opened, the handle value will be zero.

AppendStatusCreateAfter seems not to be working currently.

CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer)

method from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open a file in the ZIP for writing.

Notes:

filename: the filename in zip.

FileInfo: the file date.

ExtraLocal: contains the extrafield data the the local header.

ExtraGlobal: contains the extrafield data the the local header.

Comment: comment contain the comment string

CompressionMethod: contain the compression method (see Method* constants)

Level: contain the level of compression (a value from -1 to 9. see Compression* constants)

See also:

- 2.3.1 CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer, Raw as boolean) 31
- 2.3.1 CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer, Raw as boolean, WindowBits as integer, MemLevel as integer, Strategy as integer, Password as string, crcForCtypting as integer) 32

CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer, Raw as boolean)

method from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open a file in the ZIP for writing with the possibility to write raw files.

Notes:

filename: the filename in zip.

FileInfo: the file date.

ExtraLocal: contains the extrafield data the the local header.

ExtraGlobal: contains the extrafield data the the local header.

Comment: comment contain the comment string

CompressionMethod: contain the compression method (see Method* constants)

Level: contain the level of compression (a value from -1 to 9. see Compression* constants)

Raw: If true you read the file raw (the data will not be compressed).

See also:

- 2.3.1 CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer) 31
- 2.3.1 CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer, Raw as boolean, WindowBits as integer, MemLevel as integer, Strategy as integer, Password as string, crcForCtypting as integer) 32

CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer, Raw as boolean, WindowBits as integer, MemLevel as integer, Strategy as integer, Password as string, crcForCtypting as integer)

method from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open a file in the ZIP for writing with the possibility to write raw files, chnage the compression and add a password.

Notes:

filename: the filename in zip.

FileInfo: the file date.

ExtraLocal: contains the extrafield data the the local header.

ExtraGlobal: contains the extrafield data the the local header.

Comment: comment contain the comment string

CompressionMethod: contain the compression method (see Method* constants)

Level: contain the level of compression (a value from -1 to 9. see Compression* constants)

Raw: If true you read the file raw (the data will not be compressed).

windowBits: Parameters for zlib compression. (for example -15)

memLevel: Parameters for zlib compression. (for example 8 or 9)

Strategy: Parameters for zlib compression. (See Strategy* constants)

Password: The password to use.

`crcForCtypting`: the CRC value of the input file.

The `windowBits` parameter is the base two logarithm of the window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. Larger values of this parameter result in better compression at the expense of memory usage. The default value is 15.

`windowBits` can also be -8..-15 for raw deflate. In this case, `-windowBits` determines the window size.

The `memLevel` parameter specifies how much memory should be allocated for the internal compression state. `memLevel=1` uses minimum memory but is slow and reduces compression ratio; `memLevel=9` uses maximum memory for optimal speed. The default value is 8. See `zconf.h` for total memory usage as a function of `windowBits` and `memLevel`.

The `strategy` parameter is used to tune the compression algorithm. Use the value `StrategyDefault` for normal data, `StrategyFiltered` for data produced by a filter (or predictor), `StrategyHuffmanOnly` to force Huffman encoding only (no string match), or `StrategyRLE` to limit match distances to one (run-length encoding). Filtered data consists mostly of small values with a somewhat random distribution. In this case, the compression algorithm is tuned to compress them better. The effect of `StrategyFiltered` is to force more Huffman coding and less string matching; it is somewhat intermediate between `StrategyDefault` and `StrategyHuffmanOnly`. `StrategyRLE` is designed to be almost as fast as `StrategyHuffmanOnly`, but give better compression for PNG image data. The `strategy` parameter only affects the compression ratio but not the correctness of the compressed output even if it is not set appropriately. `StrategyFixed` prevents the use of dynamic Huffman codes, allowing for a simpler decoder for special applications.

See also:

- 2.3.1 `CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer)` 31
- 2.3.1 `CreateFile(Filename as string, FileInfo as ZipFileInfoMBS, ExtraLocal as string, ExtraGlobal as string, Comment as String, CompressionMethod as integer, Level as Integer, Raw as boolean)` 31

Write(data as string)

method from class `ZipMBS`, Compression, MBS REALbasic Compression Plugin (`ZipFile`), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Write data in the zipfile.

Notes: A file in the zip archive must have been created.

2.3.2 Properties

Handle as integer

property from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The internal handle for the open zip archive.

Notes:

If 0 the constructor failed to create the file.

(Read and Write property)

Lasterror as integer

property from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code.

Notes: (Read and Write property)

2.3.3 Constants

AppendStatusAddInZip=2

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the values for the constructor.

AppendStatusCreate=0

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the values for the constructor.

AppendStatusCreateAfter=1

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the values for the constructor.

CompressionBestCompression=9

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

CompressionBestSpeed=1

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

CompressionDefault=-1

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

CompressionNo=0

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

MethodDeflated=8

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression method constants.

MethodNone=0

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression method constants.

Notes: Use this value for no compression.

StrategyDefault=0

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy modes.

StrategyFiltered=1

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy modes.

StrategyFixed=4

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy modes.

StrategyHuffmanOnly=2

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy modes.

StrategyRLE=3

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy modes.

ZipBadZipFile=-103

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

ZipInternalError=-104

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

ZipOk=0

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

ZipParameterError=-102

const from class ZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

2.4 class ZLibDecompressMBS

class ZLibDecompressMBS

class, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for zlib decompression.

2.4.1 Methods

Adler32(start as integer, data as string) as integer

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Calculates a 32bit Adler Checksum about a given string.

Notes:

Set start to 0 for the first call.

Later you can pass the result as the new start value to add data to your checksum.

This function is part of the zlib library and given as a free utility function to this class.

close

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources of this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

Constructor(BufferSize as integer=20000)

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The constructor.

Notes:

The buffer size you specify is the output buffer size.

If this size is small, you need to flush with ProcessZip.

CRC32(start as integer, data as string) as integer

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Calculates a 32bit Checksum about a given string.

Notes:

Set start to 0 for the first call.

Later you can pass the result as the new start value to add data to your checksum.

This function is part of the zlib library and given as a free utility function to this class.

EndZip

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Finalizes the current decompression stream.

Notes:

You may check the Output property after this.

Error is set.

GetOutput as string

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the content of the output buffer.

Notes: The buffer is cleared after this function returns.

InitZip

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Initializes the stream.

Notes: Error is set.

InputAvail as integer

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin
version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes available in the input buffer.

OutputSize as integer

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin
version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes available in the output buffer.

ProcessZip(Flush as boolean=false)

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin
version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Does zip compression.

Notes:

Reduces the size of the input buffer and writes new data to the output buffer.

If the input buffer is not "" after this call, you need to call it again, but empty the output buffer before.

Error is set.

If flush is true, the data is flushed to output. Using flush=true all the the time will slow down compression, so use it only on the end to clear the output buffers.

SetInput(data as string) as boolean

method from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Fills the input buffer.

Notes:

Returns true if successful.

The current plugin uses a 128 K input buffer.

2.4.2 Properties**Error as Integer**

property from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code.

Notes:

Values:

Z_ OK	0	(no error)
Z_ STREAM_ END	1	(Should be handles by the plugin inside)
Z_ NEED_ DICT	2	
Z_ ERRNO	-1	
Z_ STREAM_ ERROR	-2	
Z_ DATA_ ERROR	-3	
Z_ MEM_ ERROR	-4	
Z_ BUF_ ERROR	-5	
Z_ VERSION_ ERROR	-6	

(Read and Write property)

ErrorMessage as String

property from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The error message for the last error.

Notes: (Read only property)

OutputBufferSize as Integer

property from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The output buffer size used in the constructor.

Notes: (Read only property)

TotalInput as Integer

property from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes processed so far.

Notes: (Read and Write property)

TotalOutput as Integer

property from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes processed so far.

Notes: (Read and Write property)

Version as String

property from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The version string of the used zlib library.

Notes: (Read only property)

2.4.3 Constants

kASCII = 1

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the data type constants.

kBEST_COMPRESSION = 9

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

kBEST_SPEED = 1

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

kBINARY = 0

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the data type constants.

kBLOCK = 5

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kBUF_ERROR = -5

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kDATA_ERROR = -3

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kDEFAULT_COMPRESSION = -1

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

kDEFAULT_STRATEGY = 0

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kDEFLATED = 8

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression method constants.

Notes: The deflate compression method (the only one supported in this version)

kERRNO = -1

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kFILTERED = 1

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kFINISH = 4

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kFIXED = 4

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kFULL_FLUSH = 3

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kHUFFMAN_ONLY = 2

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kMEM_ERROR = -4

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kNEED_DICT = 2

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kNO_COMPRESSION = 0

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

kNO_FLUSH = 0

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kNULL = 0

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The null value.

kOK = 0

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kPARTIAL_FLUSH = 1

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kRLE = 3

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression strategy constants.

kSTREAM_END = 1

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kSTREAM_ERROR = -2

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

kSYNC_FLUSH = 2

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the flush constants.

kTEXT = 1

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the data type constants.

kUNKNOWN = 2

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the data type constants.

kVERSION_ERROR = -6

const from class ZLibDecompressMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the return codes for the compression/decompression functions.

Notes: Negative values are errors, positive values are used for special but normal events.

2.5 Globals

Adler32MemoryMBS(adler as integer, buf as memoryblock, offset as integer, length as integer) as integer

global method, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The Adler32 hash function from the zlib library.

Notes:

Offset and length must be correct for your memoryblock or you will crash your application!

Update a running Adler-32 checksum with the bytes and return the updated checksum. If buf is nil, this function returns the required initial value for the checksum.

An Adler-32 checksum is almost as reliable as a CRC32 but can be computed much faster.

Adler32StringMBS(adler as integer, buf as string) as integer

global method, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The Adler32 hash function from the zlib library.

Example:

```

dim b as binarystream // some stream
dim Adler as integer
dim data as string
dim originalAdler as integer = 12345

Adler=Adler32MemoryMBS(0,nil,0,0)

data=b.read(10000)
while data<>""
Adler=Adler32StringMBS(Adler, data)
data=b.read(10000)
wend

if Adler <>originalAdler then msgbox "Error in checksum!"

```

Notes:

Update a running Adler-32 checksum with the bytes and return the updated checksum. If buf is nil, this function returns the required initial value for the checksum.

An Adler-32 checksum is almost as reliable as a CRC32 but can be computed much faster.

CompressBZip2MBS(buf as string,level as integer) as string

global method, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Compresses the data and returns it as string.

Example:

```
dim s as string = "Hello World"  
s=CompressBZip2MBS(s,9)
```

Notes: Compression level is going from 0 to 9, where 0 is no compression and 9 is best compression.

CompressLZWMBS(buf as string) as string

global method, Compression, MBS REALbasic Compression Plugin (LZW), Plugin version: 6.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Compresses string using LZW algorithm.

Example:

```
dim s as string  
dim b as BinaryStream  
dim f as FolderItem  
dim l as integer  
  
f=SpecialFolder.Desktop.Child("output.tiff")  
b=f.OpenAsBinaryFile(false)  
s=b.Read(b.Length)  
b.Close  
  
l=lenb(s)  
s=CompressLZWMBS(s)  
  
f=SpecialFolder.Desktop.Child("output.compressed.tiff")  
b=f.CreateBinaryFile("text")  
b.Write s  
b.Close  
  
s=DecompressLZWMBS(s,l)
```

```
f=SpecialFolder.Desktop.Child("output.uncompressed.tiff")
b=f.CreateBinaryFile("text")
b.Write s
b.Close
```

Notes:

Please remember that the LZW algorithm can be implemented quite different. This one is byte based, uses 12bit offsets and a 4096 entry table.

Returns "" on low memory or Stack Overflow or Output buffer overflow.
(buffer and stack size may be increased on request for future plugin versions)

CompressZLibMBS(buf as string,level as integer) as string

global method, Compression, MBS REALbasic Compression Plugin (Zip), , console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Compresses the data and returns it as string.

Example:

```
dim s as string = "Hello World"
s=CompressZLibMBS(s,9)
```

Notes: Compression level is going from 0 to 9, where 0 is no compression and 9 is best compression.

CRC32MemoryMBS(crc as integer, buf as memoryblock, offset as integer, length as integer) as integer

global method, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The crc32 hash function from the zlib library.

Notes:

Offset and length must be correct for your memoryblock or you will crash your application!

Update a running crc with the bytes and return the updated crc. If buf is nil, this function returns the required initial value for the crc. Pre- and post-conditioning (one's complement) is performed within this function so it shouldn't be done by the application.

CRC32StringMBS(crc as integer, buf as string) as integer

global method, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The crc32 hash function from the zlib library.

Example:

```

dim originalCrc as integer // original CRC
dim crc as integer // new crc
dim data as string
dim b as binarystream

crc=0

data=b.read(10000)
while data<>""
crc=CRC32StringMBS(crc, data)
data=b.read(10000)
wend

if crc <>originalCrc then msgbox "Error in checksum!"

```

Notes: Update a running crc with the bytes and return the updated crc. If buf is nil, this function returns the required initial value for the crc. Pre- and post-conditioning (one's complement) is performed within this function so it shouldn't be done by the application.

DecompressBZip2MBS(buf as string,size as integer) as string

global method, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Decompresses the data and returns it as string.

Example:

```
dim s as string = "Hello World"  
s=CompressBZip2MBS(s,9)  
s=DecompressBZip2MBS(s,10000)
```

```
MsgBox s
```

Notes: As DecompressZLibMBS can't know the size of the decompressed data you should give it a hint. Best is to save the size of the decompressed data on compression. Else you must guess the size which can be 10 times the size of the compressed data.

DecompressLZWMBS(buf as string,size as integer) as string

global method, Compression, MBS REALbasic Compression Plugin (LZW), Plugin version: 6.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Decompresses string using LZW algorithm.

Notes:

Please remember that the LZW algorithm can be implemented quite different. This one is byte based, uses 12bit offsets and a 4096 entry table.

Returns "" on low memory or Stack Overflow or Output buffer overflow.
(buffer and stack size may be increased on request for future plugin versions)

Size of the uncompressed length is only a guess for how big the output buffer needs to be. Actual string returned will often be smaller.

DecompressZLibMBS(buf as string,size as integer) as string

global method, Compression, MBS REALbasic Compression Plugin (Zip), , console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Decompresses the data and returns it as string.

Example:

```
dim s as string = "Hello World"
s=CompressZLibMBS(s,9)
s=DecompressZLibMBS(s,10000)
```

```
MsgBox s
```

Notes: As DecompressZLibMBS can't know the size of the decompressed data you should give it a hint. Best is to save the size of the decompressed data on compression. Else you must guess the size which can be 10 times the size of the compressed data.

2.6 class BZip2FileMBS

class BZip2FileMBS

class, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class to read and write bzip2 byte streams.

Notes: A .bz2 file is just the content of the original file compressed. No header.

2.6.1 Methods

Close

method from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources of this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

Flush

method from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Flushes all pending output into the compressed file.

Open(file as folderitem, mode as string) as boolean

method from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Opens a .bz2 file for reading or writing, using the given file path.

Notes:

Returns false on failure.

Mode can be "r" for reading and "w" for writing. Or other values fopen accepts.

OpenString(data as string) as boolean

method from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Opens a bzip compressed file from the given string.

Notes: Returns true on success and false on failure.

Read(data as integer) as string

method from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Reads data form a compresses file.

Write(data as string)

method from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Writes data to the file and compresses it.

2.6.2 Properties

ErrorCode as Integer

property from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code.

Notes: (Read only property)

ErrorMessage as String

property from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error message.

Notes: (Read only property)

Handle as Integer

property from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The current bzip file handle.

Notes: (Read and Write property)

Lasterror as Integer

property from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error value.

Notes: (Read and Write property)

Version as String

property from class BZip2FileMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns a string indicating the library version.

Notes: (Read only property)

2.7 class BZip2CompressMBS

class BZip2CompressMBS

class, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for bzip2 compression.

2.7.1 Methods

Close

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources of this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

Constructor(BufferSize as integer=20000)

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The constructor.

Notes:

The buffer size you specify is the output buffer size.
If this size is small, you need to flush with ProcessZip.

EndZip

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Finalizes the current compression stream.

Notes:

You may check the Output property after this.
Error is set.

GetOutput as string

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the content of the output buffer.

Notes: The buffer is cleared after this function returns.

InitZip(level as integer)

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Initializes the stream.

Notes:

Level is from 0 to 9.

Error is set.

InputAvail as integer

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the number of bytes available in the input buffer.

OutputSize as integer

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The size of bytes available in the output buffer.

ProcessZip(Flush as boolean=false)

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Does zip compression.

Notes:

Reduces the size of the input buffer and writes new data to the output buffer.

If the input buffer is not empty after this call, you need to call it again, but empty the output buffer before. Error is set.

If flush is true, the data is flushed to output. Using flush=true all the the time will slow down compression, so use it only on the end to clear the output buffers.

SetInput(data as string) as boolean

method from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Fills the input buffer.

Notes:

Returns true if successful.

The current plugin uses a 128 K input buffer.

2.7.2 Properties

Error as Integer

property from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code.

Notes: (Read and Write property)

OutputBufferSize as Integer

property from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The output buffer size used in the constructor.

Notes: (Read only property)

TotalInput as UInt64

property from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes processed so far.

Notes: (Read and Write property)

TotalOutput as UInt64

property from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes processed so far.

Notes: (Read and Write property)

Version as String

property from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The version string of the used zlib library.

Notes: (Read only property)

2.7.3 Constants

kCONFIG_ERROR = -9

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes:

Indicates that the library has been improperly compiled on your platform – a major configuration error. Specifically, it means that `sizeof(char)`, `sizeof(short)` and `sizeof(int)` are not 1, 2 and 4 respectively, as they should be. Note that the library should still work properly on 64-bit platforms which follow the LP64 programming model – that is, where `sizeof(long)` and `sizeof(void*)` are 8. Under LP64, `sizeof(int)` is still 4, so `libbzip2`, which doesn't use the long type, is OK.

This should never happen with the plugin.

kDATA_ERROR = -4

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned when a data integrity error is detected during decompression. Most importantly, this means when stored and computed CRCs for the data do not match. This value is also returned upon detection of any other anomaly in the compressed data.

kDATA_ERROR_MAGIC = -5

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: As a special case of `kDATA_ERROR`, it is sometimes useful to know when the compressed stream does not start with the correct magic bytes ('B' 'Z' 'h').

kFINISH = 2

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the command constants for bzip.

kFINISH_OK = 3

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: In Compress, the requested flush/finish/nothing-special action was completed successfully.

kFLUSH = 1

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the command constants for bzip.

kFLUSH_OK = 2

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: In Compress, the requested flush/finish/nothing-special action was completed successfully.

kIO_ERROR = -6

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned by Read and Write when there is an error reading or writing in the compressed file, and by ReadOpen and WriteOpen for attempts to use a file for which the error indicator (viz, `ferror(f)`) is set. On receipt of `kIO_ERROR`, the caller should consult `errno` and/or `perror` to acquire operating-system specific information about the problem.

kMEM_ERROR = -3

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned when a request to allocate memory failed. Note that the quantity of memory needed to decompress a stream cannot be determined until the stream's header has been read. So Decompress and Read may return `kMEM_ERROR` even though some of the compressed data has been read. The same is not true for compression; once CompressInit or WriteOpen have successfully completed, `kMEM_ERROR` cannot occur.

kOK = 0

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: The requested action was completed successfully.

kOUTBUFF_FULL = -8

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned by BuffToBuffCompress and BuffToBuffDecompress to indicate that the output data will not fit into the output buffer provided.

kPARAM_ERROR = -2

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned when a parameter to a function call is out of range or otherwise manifestly incorrect. As with kSEQUENCE_ERROR, this denotes a bug in the client code. The distinction between kPARAM_ERROR and kSEQUENCE_ERROR is a bit hazy, but still worth making.

kRUN = 0

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the command constants for bzip.

kRUN_OK = 1

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: In Compress, the requested flush/finish/nothing-special action was completed successfully.

kSEQUENCE_ERROR = -1

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: When using the library, it is important to call the functions in the correct sequence and with data structures (buffers etc) in the correct states. libbzip2 checks as much as it can to ensure this is happening, and returns kSEQUENCE_ERROR if not. Code which complies precisely with the function semantics, as detailed below, should never receive this value; such an event denotes buggy code which you should investigate.

kSTREAM_END = 4

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Compression of data was completed, or the logical stream end was detected during decompression.

kUNEXPECTED_EOF = -7

const from class BZip2CompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned by Read when the compressed file finishes before the logical end of stream is detected.

2.8 class BZip2DecompressMBS

class BZip2DecompressMBS

class, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for bzip2 decompression.

2.8.1 Methods

Close

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources of this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

Constructor(BufferSize as integer=20000)

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The constructor.

Notes:

The buffer size you specify is the output buffer size.
If this size is small, you need to flush with ProcessZip.

EndZip

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Finalizes the current decompression stream.

Notes:

You may check the Output property after this.
Error is set.

GetOutput as string

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the content of the output buffer.

Notes: The buffer is cleared after this function returns.

InitZip

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Initializes the stream.

Notes: Error is set.

InputAvail as integer

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the number of bytes available in the input buffer.

OutputSize as integer

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The size of bytes available in the output buffer.

ProcessZip

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Does zip compression.

Notes:

Reduces the size of the input buffer and writes new data to the output buffer.

If the input buffer is not "" after this call, you need to call it again, but empty the output buffer before.

Error is set.

SetInput(data as string) as boolean

method from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Fills the input buffer.

Notes:

Returns true if successful.

The current plugin uses a 128 K input buffer.

2.8.2 Properties

Error as Integer

property from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code.

Notes: (Read and Write property)

OutputBufferSize as Integer

property from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The output buffer size used in the constructor.

Notes: (Read only property)

TotalInput as UInt64

property from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes processed so far.

Notes: (Read and Write property)

TotalOutput as UInt64

property from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of bytes processed so far.

Notes: (Read and Write property)

Version as String

property from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The version string of the used zlib library.

Notes: (Read only property)

2.8.3 Constants

kCONFIG_ERROR = -9

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes:

Indicates that the library has been improperly compiled on your platform – a major configuration error. Specifically, it means that `sizeof(char)`, `sizeof(short)` and `sizeof(int)` are not 1, 2 and 4 respectively, as they should be. Note that the library should still work properly on 64-bit platforms which follow the LP64 programming model – that is, where `sizeof(long)` and `sizeof(void*)` are 8. Under LP64, `sizeof(int)` is still 4, so `libbzip2`, which doesn't use the long type, is OK.

This should never happen with the plugin.

kDATA_ERROR = -4

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned when a data integrity error is detected during decompression. Most importantly, this means when stored and computed CRCs for the data do not match. This value is also returned upon detection of any other anomaly in the compressed data.

kDATA_ERROR_MAGIC = -5

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: As a special case of kDATA_ERROR, it is sometimes useful to know when the compressed stream does not start with the correct magic bytes ('B' 'Z' 'h').

kFINISH = 2

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the command constants for bzip.

kFINISH_OK = 3

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: In Compress, the requested flush/finish/nothing-special action was completed successfully.

kFLUSH = 1

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the command constants for bzip.

kFLUSH_OK = 2

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: In Compress, the requested flush/finish/nothing-special action was completed successfully.

kIO_ERROR = -6

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned by Read and Write when there is an error reading or writing in the compressed file, and by ReadOpen and WriteOpen for attempts to use a file for which the error indicator (viz, `error(f)`) is set. On receipt of `kIO_ERROR`, the caller should consult `errno` and/or `error` to acquire operating-system specific information about the problem.

kMEM_ERROR = -3

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned when a request to allocate memory failed. Note that the quantity of memory needed to decompress a stream cannot be determined until the stream's header has been read. So Decompress and Read may return `kMEM_ERROR` even though some of the compressed data has been read. The same is not true for compression; once CompressInit or WriteOpen have successfully completed, `kMEM_ERROR`

cannot occur.

kOK = 0

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: The requested action was completed successfully.

kOUTBUFF_FULL = -8

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned by BuffToBuffCompress and BuffToBuffDecompress to indicate that the output data will not fit into the output buffer provided.

kPARAM_ERROR = -2

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned when a parameter to a function call is out of range or otherwise manifestly incorrect. As with kSEQUENCE_ERROR, this denotes a bug in the client code. The distinction between kPARAM_ERROR and kSEQUENCE_ERROR is a bit hazy, but still worth making.

kRUN = 0

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the command constants for bzip.

kRUN_OK = 1

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: In Compress, the requested flush/finish/nothing-special action was completed successfully.

kSEQUENCE_ERROR = -1

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: When using the library, it is important to call the functions in the correct sequence and with data structures (buffers etc) in the correct states. libbzip2 checks as much as it can to ensure this is happening, and returns kSEQUENCE_ERROR if not. Code which complies precisely with the function semantics, as detailed below, should never receive this value; such an event denotes buggy code which you should investigate.

kSTREAM_END = 4

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Compression of data was completed, or the logical stream end was detected during decompression.

kUNEXPECTED_EOF = -7

const from class BZip2DecompressMBS, Compression, MBS REALbasic Compression Plugin (BZip), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

Notes: Returned by Read when the compressed file finishes before the logical end of stream is detected.

2.9 class UnZipFilePositionMBS

class UnZipFilePositionMBS

class, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: This class contains information about a file in the zipfile.

2.9.1 Properties

NumberOfFile as integer

property from class UnZipFilePositionMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The index of the file.

Notes: (Read and Write property)

PositionInZipDirectory as integer

property from class UnZipFilePositionMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Offset in zip file directory.

Notes: (Read and Write property)

2.10 class UnZipMBS

class UnZipMBS

class, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class to decompress a zip archive.

Notes:

This is a simple class which uses zlib and has some limitations:

- only deflate as compression method
- only one date per file is preserved
- no resource forks on Mac OS
- no encoding handling
- only 2 GB per zip file.

Based on libunzip.

2.10.1 Methods

Close

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Close a ZipFile.

Notes:

Use CloseCurrentFile to close any open file before using Close.
LastError is UnZipOK on success.

CloseCurrentFile

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Close the file in the zip archive opened with OpenCurrentFile.

Notes: Lasterror is set to UnzipCRCError if all the file was read but the CRC was not correct.

Comment as string

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Get the global comment string of the ZipFile.

CommentSize as integer

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Size of the global comment of the zipfile.

CompareFileNames(filename1 as string, filename2 as string, CaseSensitive as integer) as integer

shared method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Compare two filename (fileName1,fileName2).

Notes:

If iCaseSensitivity = 1, comparison is case sensitivity (like strcmp)

If iCaseSensitivity = 2, comparison is not case sensitivity (like strcmpi or strcasecmp)

If iCaseSensitivity = 0, case sensitivity is default of your operating system (like 1 on Unix, 2 on Windows)

Constructor(data as memoryblock)

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 10.5, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open a Zip file from data in the memoryblock.

Notes:

The Handle property is zero on failure and not zero on success.

The memory block must have a known size.

See also:

- 2.10.1 Constructor(data as string) 80
- 2.10.1 Constructor(file as folderitem) 80
- 2.10.1 Constructor(file as folderitem, Offset as integer) 81

Constructor(data as string)

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 10.5, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open a Zip file from data in the string.

Notes: The Handle property is zero on failure and not zero on success.

See also:

- 2.10.1 Constructor(data as memoryblock) 80
- 2.10.1 Constructor(file as folderitem) 80
- 2.10.1 Constructor(file as folderitem, Offset as integer) 81

Constructor(file as folderitem)

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open a Zip file from a file.

Notes: The Handle property is zero on failure and not zero on success.

See also:

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• 2.10.1 Constructor(data as memoryblock)	80
• 2.10.1 Constructor(data as string)	80
• 2.10.1 Constructor(file as folderitem, Offset as integer)	81

Constructor(file as folderitem, Offset as integer)

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 11.0, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open a Zip file from a file starting at the offset.

Notes: The Handle property is zero on failure and not zero on success.

See also:

• 2.10.1 Constructor(data as memoryblock)	80
• 2.10.1 Constructor(data as string)	80
• 2.10.1 Constructor(file as folderitem)	80

Count as integer

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Total number of entries in the zip archive.

Notes: This value is stored in the zip archive as 16 bit integer, so maximum value is 65535. The plugin can extract more files than that number.

EOF as integer

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns 1 if you are on the end of a file.

Notes: This is not to test whether you are on the end of the zip archive.

FileInfo as UnZipFileInfoMBS

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Queries file information for the current file.

Notes: Returns nil on any error.

FileName as string

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The filename of the current open file.

FilePosition as UnZipFilePositionMBS

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The current file position.

Notes:

You can read or set the current file you edit.
(Read and Write computed property)

GetLocalExtrafield as string

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Read extra field from the current file (opened by unzOpenCurrentFile)

Notes: This is the local-header version of the extra field (sometimes, there is more info in the local-header version than in the central-header)

GoToFirstFile

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Set the current file of the zipfile to the first file.

Notes: Lasterror is UnzipOk on success.

GoToNextFile

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Set the current file of the zipfile to the next file.

Notes: Lasterror is UnzipOk if there is no problem and UnzipEndOfListError if the actual file was the latest.

LocateFile(filename as string, CaseSensitive as integer)

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Try locate the file filename in the zipfile.

Notes:

For the CaseSensitivity signification, see CompareFileNames

Lasterror is UnzipOk if the file is found. It becomes the current file, UnzipEndOfListError if the file is not found.

Offset as integer

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Get or set the current index of the file in the zip directory.

Notes:

If you set this value, you basically move to another file.
(Read and Write computed property)

OpenCurrentFile

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open for reading data the current file in the zipfile.

See also:

- 2.10.1 OpenCurrentFile(byref method as integer, byref level as integer, raw as boolean) 84
- 2.10.1 OpenCurrentFile(byref method as integer, byref level as integer, raw as boolean, password as string) 85
- 2.10.1 OpenCurrentFile(password as string) 85

OpenCurrentFile(byref method as integer, byref level as integer, raw as boolean)

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Same than OpenCurrentFile, but opens file for reading raw data (not uncompressed).

Notes:

if raw=true the file data is returned uncompressed. If raw is false, it is decompressed for you.

Method will receive the method of compression.

level will receive the level of compression.

See also:

- 2.10.1 OpenCurrentFile 84
- 2.10.1 OpenCurrentFile(byref method as integer, byref level as integer, raw as boolean, password as string) 85
- 2.10.1 OpenCurrentFile(password as string) 85

OpenCurrentFile(byref method as integer, byref level as integer, raw as boolean, password as string)

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Same than OpenCurrentFile, but opens file for reading raw data (not uncompressed) and with a password.

Notes:

if raw=true the file data is returned uncompressed. If raw is false, it is decompressed for you.

Method will receive the method of compression.

level will receive the level of compression.

See also:

- 2.10.1 OpenCurrentFile 84
- 2.10.1 OpenCurrentFile(byref method as integer, byref level as integer, raw as boolean) 84
- 2.10.1 OpenCurrentFile(password as string) 85

OpenCurrentFile(password as string)

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Open for reading data the current file in the zipfile.

Notes: password is a crypting password.

See also:

- 2.10.1 OpenCurrentFile 84
- 2.10.1 OpenCurrentFile(byref method as integer, byref level as integer, raw as boolean) 84
- 2.10.1 OpenCurrentFile(byref method as integer, byref level as integer, raw as boolean, password as string) 85

Position as integer

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the current position in uncompressed data.

ReadCurrentFile(size as integer) as string

method from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Read bytes from the current file (opened by OpenCurrentFile).

Notes: Returns "" on any error or on file end.

2.10.2 Properties

Handle as integer

property from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The internal handle for the unzip object.

Notes: (Read and Write property)

Lasterror as integer

property from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code.

Notes: (Read and Write property)

2.10.3 Constants

CompressionBestCompression=9

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

CompressionBestSpeed=1

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

CompressionDefault=-1

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

CompressionNo=0

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression level constants.

MethodDeflated=8

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression methods.

MethodNone=0

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the compression methods.

StrategyDefault=0

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy constants.

StrategyFiltered=1

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy constants.

StrategyFixed=4

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy constants.

StrategyHuffmanOnly=2

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy constants.

StrategyRLE=3

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the strategy constants.

UnzipBadUnZipFile=-103

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

UnzipCRCError=-105

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

UnzipEndOfListError=-100

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

UnzipInternalError=-104

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

UnzipOk=0

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

UnzipParameterError=-102

const from class UnZipMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the error constants.

2.11 class GZipFileMBS

class GZipFileMBS

class, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class to read and write gzip byte streams.

Notes: A .gz file is just the content of the original file compressed. No header.

2.11.1 Methods

Adler32(start as integer, data as string) as integer

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Calculates a 32bit Adler Checksum about a given string.

Notes:

Set start to 0 for the first call.

Later you can pass the result as the new start value to add data to your checksum.

This function is part of the zlib library and given as a free utility function to this class.

Close

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources of this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

CRC32(start as integer, data as string) as integer

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Calculates a 32bit Checksum about a given string.

Notes:

Set start to 0 for the first call.

Later you can pass the result as the new start value to add data to your checksum.

This function is part of the zlib library and given as a free utility function to this class.

Flush(flush as integer)

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Flushes all pending output into the compressed file.

Notes:

The parameter flush is as in the zlib deflate() function.

Lasterror is set.

Flush should be called only when strictly necessary because it can degrade compression.

Open(file as folderitem, mode as string) as boolean

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Opens a gzip (.gz) file for reading or writing.

Notes:

The mode parameter is as in fopen ("rb" read binary or "wb" for write binary) but can also include a compression level ("wb9") or a strategy: 'f' for filtered data as in "wb6f", 'h' for Huffman only compression as in "wb1h".

Open can be used to read a file which is not in gzip format; in this case Read will directly read from the file without decompression.

Open returns NULL if the file could not be opened or if there was insufficient memory to allocate the (de)compression state; errno can be checked to distinguish the two cases (if errno is zero, the zlib error is Z_MEM_ERROR).

Returns false on any error and true on success.

This function uses file paths and may not work correctly if you have several volumes with the same name.

OpenString(data as string) as boolean

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Opens a gzip (.gz) file for reading from a file.

Notes: Same as Open, but reading from the given string.

Read(data as integer) as string

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Reads the given number of bytes into a string.

Notes:

Returns "" on any error.

May return less bytes than requested.

Lasterror is set.

ReadByte as integer

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Reads one byte from the file.

Rewind

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Moves the file position for reading files to the file start.

Notes: Equal to: position=0

SetParameter(level as integer, strategy as integer)

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Dynamically update the compression level or strategy.

Notes:

Lasterror is set.

Possible values:

FILTERED	1
HUFFMAN_ONLY	2
DEFAULT_STRATEGY	0

Write(data as string)

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Writes a string to a file.

Notes:

Note that encoding can make trouble as the raw bytes from the string are written.

Lasterror is set.

WriteByte(data as integer)

method from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Writes one byte to the file.

2.11.2 Properties

EOF as Boolean

property from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns true if reading is on the end of the file.

Notes:

Returns true on any error.
(Read only property)

ErrorCode as Integer

property from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the last zlib error number.

Notes:

If an error occurred in the file system and not in the compression library, errnum is set to Z_ ERRNO and the application may consult errno to get the exact error code. (errno is currently not available in Realbasic)

Error codes:

(Read only property)

Z_OK	0
Z_STREAM_END	1
Z_NEED_DICT	2
Z_ERRNO	-1
Z_STREAM_ERROR	-2
Z_DATA_ERROR	-3
Z_MEM_ERROR	-4
Z_BUF_ERROR	-5
Z_VERSION_ERROR	-6

ErrorMessage as String

property from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the error message for the last error which occurred on the given compressed file.

Notes: (Read only property)

Handle as Integer

property from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The current zlib file handle.

Notes: (Read and Write property)

Lasterror as Integer

property from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code reported.

Notes:

0 for success.

-1 for failure.

(Read and Write property)

Position as Integer

property from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The current file position.

Notes:

Not all positions are available.

e.g. on writing you can not move back.

Moving forward will add bytes with value 0 to the file.

Lasterror is set.

(Read and Write property)

Version as String

property from class GZipFileMBS, Compression, MBS REALbasic Compression Plugin (Zip), Plugin version: 4.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The version string of the used zlib library.

Notes: (Read only property)

2.12 class UnZipFileInfoMBS

class UnZipFileInfoMBS

class, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: This class keeps the metadata for a zip file.

2.12.1 Properties

CompressedSize as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The compressed file size.

Notes: (Read and Write property)

CompressionMethod as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The compression method.

Notes: (Read and Write property)

CRC as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The 32bit file checksum.

Notes: (Read and Write property)

Date as Date

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The date as a REALbasic date object.

Notes: (Read and Write property)

Day as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

day of the month - [1,31]
(Read and Write property)

DiskNumStart as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Disk number start.

Notes: (Read and Write property)

DosDate as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Last mod file date in DOS format.

Notes: (Read and Write property)

ExternalFileAttributes as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: External file attributes.

Notes: (Read and Write property)

Flag as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: general purpose bit flag.

Notes:

A 16 bit value.

(Read and Write property)

Hour as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

hours since midnight - [0,23]

(Read and Write property)

InternalFileAttributes as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Internal file attributes.

Notes: (Read and Write property)

Minute as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

minutes after the hour - [0,59]
(Read and Write property)

Month as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

months since January - [0,11]
(Read and Write property)

Second as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

seconds after the minute - [0,59]
(Read and Write property)

SizeFileComment as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: file comment length.

Notes: (Read and Write property)

SizeFileExtra as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: extra field length.

Notes: (Read and Write property)

SizeFilename as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: filename length.

Notes: (Read and Write property)

UncompressedSize as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The uncompressed file size.

Notes: (Read and Write property)

Version as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The version used to make the archive.

Notes: (Read and Write property)

VersionNeeded as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The version needed to extract.

Notes: (Read and Write property)

Year as integer

property from class UnZipFileInfoMBS, Compression, MBS REALbasic Compression Plugin (ZipFile), Plugin version: 8.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file time.

Notes:

years - [1980..2044]

(Read and Write property)

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