

NAME

IO::Zlib - IO:: style interface to Compress::Zlib

SYNOPSIS

With any version of Perl 5 you can use the basic OO interface:

```
use IO::Zlib;

$fh = new IO::Zlib;
if ($fh->open("file.gz", "rb")) {
    print <$fh>;
    $fh->close;
}

$fh = IO::Zlib->new("file.gz", "wb9");
if (defined $fh) {
    print $fh "bar\n";
    $fh->close;
}

$fh = IO::Zlib->new("file.gz", "rb");
if (defined $fh) {
    print <$fh>;
    undef $fh; # automatically closes the file
}
```

With Perl 5.004 you can also use the TIEHANDLE interface to access compressed files just like ordinary files:

```
use IO::Zlib;

tie *FILE, 'IO::Zlib', "file.gz", "wb";
print FILE "line 1\nline2\n";

tie *FILE, 'IO::Zlib', "file.gz", "rb";
while (<FILE>) { print "LINE: ", $_ };
```

DESCRIPTION

[IO::Zlib](#) provides an IO:: style interface to [Compress::Zlib](#) and hence to gzip/zlib compressed files. It provides many of the same methods as the [IO::Handle](#) interface.

Starting from [IO::Zlib](#) version 1.02, [IO::Zlib](#) can also use an external *gzip* command. The default behaviour is to try to use an external *gzip* if no [Compress::Zlib](#) can be loaded, unless explicitly disabled by

```
use IO::Zlib qw(:gzip_external 0);
```

If explicitly enabled by

```
use IO::Zlib qw(:gzip_external 1);
```

then the external *gzip* is used **instead** of [Compress::Zlib](#)

CONSTRUCTOR

```
new ( [ARGS] )
```

Creates an [IO::Zlib](#) object. If it receives any parameters, they are passed to the method `open`; if the open fails, the object is destroyed. Otherwise, it is returned to the caller.

OBJECT METHODS

```
open ( FILENAME, MODE )
```

`open` takes two arguments. The first is the name of the file to open and the second is the open mode. The mode can be anything acceptable to [Compress::Zlib](#) and by extension

anything acceptable to *zlib* (that basically means POSIX *fopen()* style mode strings plus an optional number to indicate the compression level).

`opened`

Returns true if the object currently refers to a opened file.

`close`

Close the file associated with the object and disassociate the file from the handle. Done automatically on destroy.

`getc`

Return the next character from the file, or undef if none remain.

`getline`

Return the next line from the file, or undef on end of string. Can safely be called in an array context. Currently ignores `$/` (`$INPUT_RECORD_SEPARATOR` or `$RS` when English is in use) and treats lines as delimited by “`\n`”.

`getlines`

Get all remaining lines from the file. It will *croak()* if accidentally called in a scalar context.

`print (ARGS...)`

Print ARGS to the file.

`read (BUF, NBYTES, [OFFSET])`

Read some bytes from the file. Returns the number of bytes actually read, 0 on end-of-file, undef on error.

`eof` Returns true if the handle is currently positioned at end of file?

`seek (OFFSET, WHENCE)`

Seek to a given position in the stream. Not yet supported.

`tell` Return the current position in the stream, as a numeric offset. Not yet supported.

`setpos (POS)`

Set the current position, using the opaque value returned by `getpos()`. Not yet supported.

`getpos (POS)`

Return the current position in the string, as an opaque object. Not yet supported.

USING THE EXTERNAL GZIP

If the external *gzip* is used, the following opens are used:

```
open(FH, "gzip -dc $filename |") # for read opens
open(FH, "| gzip > $filename") # for write opens
```

You can modify the 'commands' for example to hardwire an absolute path by e.g.

```
use IO::Zlib ':gzip_read_open' => '/some/where/gunzip -c %s |';
use IO::Zlib ':gzip_write_open' => '| /some/where/gzip.exe > %s';
```

The `%s` is expanded to be the filename (`sprintf` is used, so be careful to escape any other `%` signs). The 'commands' are checked for sanity - they must contain the `%s`, and the read open must end with the pipe sign, and the write open must begin with the pipe sign.

CLASS METHODS

`has_Compress_Zlib`

Returns true if `Compress::Zlib` is available. Note that this does not mean that `Compress::Zlib` is being used: see “`gzip_external`” and `gzip_used`.

`gzip_external`

Undef if an external *gzip* can be used if `Compress::Zlib` is not available (see “`has_Compress_Zlib`”), true if an external *gzip* is explicitly used, false if an external *gzip* must not be used. See “`gzip_used`”.

`gzip_used`

True if an external *gzip* is being used, false if not.

`gzip_read_open`

Return the 'command' being used for opening a file for reading using an external *gzip*.

`gzip_write_open`

Return the 'command' being used for opening a file for writing using an external *gzip*.

DIAGNOSTICS

IO::Zlib::getlines: must be called in list context

If you want read lines, you must read in list context.

IO::Zlib::gzopen_external: mode '...' is illegal

Use only modes 'rb' or 'wb' or /wb[1-9]/.

IO::Zlib::import: '...' is illegal

The known import symbols are the `:gzip_external`, `:gzip_read_open`, and `:gzip_write_open`. Anything else is not recognized.

IO::Zlib::import: 'gzip_external' requires an argument

The `:gzip_external` requires one boolean argument.

IO::Zlib::import: 'gzip_read_open' requires an argument

The `:gzip_external` requires one string argument.

IO::Zlib::import: 'gzip_read' '...' is illegal

The `:gzip_read_open` argument must end with the pipe sign (`|`) and have the `%s` for the filename. See "USING THE EXTERNAL GZIP".

IO::Zlib::import: 'gzip_write_open' requires an argument

The `:gzip_external` requires one string argument.

IO::Zlib::import: 'gzip_write_open' '...' is illegal

The `:gzip_write_open` argument must begin with the pipe sign (`|`) and have the `%s` for the filename. An output redirect (`>`) is also often a good idea, depending on your operating system shell syntax. See "USING THE EXTERNAL GZIP".

IO::Zlib::import: no

[Compress::Zlib](#) and no external *gzip* 4 Given that we failed to load [Compress::Zlib](#) and that the use of an external *gzip* was disabled, [IO::Zlib](#) has not much chance of working.

IO::Zlib::open: needs a filename

No filename, no open.

IO::Zlib::READ: NBYTES must be specified

We must know how much to read.

IO::Zlib::WRITE: too long LENGTH

The LENGTH must be less than or equal to the buffer size.

SEE ALSO

[perlfunc\(1\)](#), "I/O Operators" in [perlop\(1\)](#), [IO::Handle](#), [Compress::Zlib](#)

HISTORY

Created by Tom Hughes <tom@compton.nu>.

Support for external *gzip* added by Jarkko Hietaniemi <jhi@iki.fi>.

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