

**NAME**

**zip\_set\_file\_compression** - set compression method for file in zip

**LIBRARY**

libzip (-lzip)

**SYNOPSIS**

```
#include <zip.h>
```

*int*

```
zip_set_file_compression(zip_t *archive, zip_uint64_t index, zip_int32_t comp,
    zip_uint32_t comp_flags);
```

**DESCRIPTION**

The **zip\_set\_file\_compression()** function sets the compression method for the file at position *index* in the zip archive to *comp* with the compression method specific *comp\_flags*. The *comp* is the same as returned by `zip_stat(3)`. For the *comp* argument, currently only the following values are supported:

ZIP_CM_DEFAULT	default compression; currently the same as ZIP_CM_DEFLATE, but <i>flags</i> are ignored.
ZIP_CM_STORE	Store the file uncompressed.
ZIP_CM_BZIP2	Compress the file using the bzip2(1) algorithm.
ZIP_CM_DEFLATE	Deflate the file with the zlib(3) algorithm and default options.
ZIP_CM_XZ	Use the xz(1) algorithm for compression
ZIP_CM_ZSTD	Use the zstd(1) algorithm for compression

*NOTE:* Only the deflate and store methods can be assumed to be universally supported.

The *comp\_flags* argument defines the compression level. This value is dependent on the compression algorithm. In general, lower numbers mean faster de/compression and higher numbers mean slower de/compression. For ZIP\_CM\_BZIP2, ZIP\_CM\_DEFLATE, and ZIP\_CM\_XZ 1 is the fastest compression and 9 the best, 0 chooses the default. For ZIP\_CM\_ZSTD possible values are ZSTD\_minCLevel(3) to ZSTD\_maxCLevel(3); negative values must be cast to *zip\_uint32\_t*.

Further compression method specific flags might be added over time.

The current compression method for a file in a zip archive can be determined using `zip_stat(3)`.

## RETURN VALUES

Upon successful completion 0 is returned. Otherwise, -1 is returned and the error information in *archive* is set to indicate the error.

## ERRORS

`zip_set_file_compression()` fails if:

[ZIP\_ER\_COMPNOTSUPP]

Unsupported compression method requested.

[ZIP\_ER\_INVALID] *index* is not a valid file index in *archive*, or the argument combination is invalid.

[ZIP\_ER\_RDONLY]

Read-only zip file, no changes allowed.

## SEE ALSO

`libzip(3)`, `zip_compression_method_supported(3)`, `zip_stat(3)`

## HISTORY

`zip_set_file_compression()` was added in libzip 0.11.

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