

**NAME**

**zip\_fopen**, **zip\_fopen\_index** - open file in zip archive for reading

**LIBRARY**

libzip (-lzip)

**SYNOPSIS**

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

```
zip_file_t *
```

```
zip_fopen(zip_t *archive, const char *fname, zip_flags_t flags);
```

```
zip_file_t *
```

```
zip_fopen_index(zip_t *archive, zip_uint64_t index, zip_flags_t flags);
```

**DESCRIPTION**

The **zip\_fopen()** function opens the file name *fname* in *archive*. The *flags* argument specifies how the name lookup should be done, according to the values are described in `zip_name_locate(3)`. Also, the following values may be *or*'ed to it.

**ZIP\_FL\_COMPRESSED** Read the compressed data. Otherwise the data is uncompressed by **zip\_fread()**.

**ZIP\_FL\_UNCHANGED** Read the original data from the zip archive, ignoring any changes made to the file; this is not supported by all data sources.

The **zip\_fopen\_index()** function opens the file at position *index*.

If encrypted data is encountered, the functions call `zip_fopen_encrypted(3)` or `zip_fopen_index_encrypted(3)` respectively, using the default password set with `zip_set_default_password(3)`.

**RETURN VALUES**

Upon successful completion, a *struct zip\_file* pointer is returned. Otherwise, NULL is returned and the error code in *archive* is set to indicate the error.

**ERRORS**

[ZIP\_ER\_CHANGED]

The file data has been changed and the data source does not support rereading data.

**[ZIP\_ER\_COMPNOTSUPP]**

The compression method used is not supported.

**[ZIP\_ER\_ENCRNOTSUPP]**

The encryption method used is not supported.

**[ZIP\_ER\_MEMORY]**

Required memory could not be allocated.

**[ZIP\_ER\_NOPASSWD]**

The file is encrypted, but no password has been provided.

**[ZIP\_ER\_READ]** A file read error occurred.

**[ZIP\_ER\_SEEK]** A file seek error occurred.

**[ZIP\_ER\_WRONGPASSWD]**

The provided password does not match the password used for encryption. Note that some incorrect passwords are not detected by the check done by **zip\_fopen()**.

**[ZIP\_ER\_ZLIB]** Initializing the zlib stream failed.

The function **zip\_fopen()** may also fail and set *zip\_err* for any of the errors specified for the routine *zip\_name\_locate(3)*.

The function **zip\_fopen\_index()** may also fail with ZIP\_ER\_INVALID if *index* is invalid.

**SEE ALSO**

*libzip(3)*, *zip\_fclose(3)*, *zip\_fread(3)*, *zip\_fseek(3)*, *zip\_get\_num\_entries(3)*, *zip\_name\_locate(3)*, *zip\_set\_default\_password(3)*

**HISTORY**

**zip\_fopen()** and **zip\_fopen\_index()** were added in libzip 1.0.

**AUTHORS**

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