

NAME

zip_stat, zip_stat_index - get information about file

LIBRARY

libzip (-lzip)

SYNOPSIS

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

int

```
zip_stat(zip_t *archive, const char *fname, zip_flags_t flags, zip_stat_t *sb);
```

int

```
zip_stat_index(zip_t *archive, zip_uint64_t index, zip_flags_t flags, zip_stat_t *sb);
```

DESCRIPTION

The **zip_stat()** function obtains information about the file named *fname* in *archive*. The *flags* argument specifies how the name lookup should be done. Its values are described in `zip_name_locate(3)`. Also, `ZIP_FL_UNCHANGED` may be *or*'ed to it to request information about the original file in the archive, ignoring any changes made.

The **zip_stat_index()** function obtains information about the file at position *index*.

The *sb* argument is a pointer to a *struct zip_stat* (shown below), into which information about the file is placed.

```
struct zip_stat {
    zip_uint64_t valid;           /* which fields have valid values */
    const char *name;             /* name of the file */
    zip_uint64_t index;           /* index within archive */
    zip_uint64_t size;            /* size of file (uncompressed) */
    zip_uint64_t comp_size;       /* size of file (compressed) */
    time_t mtime;                /* modification time */
    zip_uint32_t crc;             /* crc of file data */
    zip_uint16_t comp_method;      /* compression method used */
    zip_uint16_t encryption_method; /* encryption method used */
    zip_uint32_t flags;           /* reserved for future use */
};
```

The structure pointed to by *sb* must be allocated before calling **zip_stat()** or **zip_stat_index()**.

The *valid* field of the structure specifies which other fields are valid. Check if the flag defined by the following defines are in *valid* before accessing the fields:

ZIP_STAT_NAME	<i>name</i>
ZIP_STAT_INDEX	<i>index</i>
ZIP_STAT_SIZE	<i>size</i>
ZIP_STAT_COMP_SIZE	<i>comp_size</i>
ZIP_STAT_MTIME	<i>mtime</i>
ZIP_STAT_CRC	<i>crc</i>
ZIP_STAT_COMP_METHOD	<i>comp_method</i>
ZIP_STAT_ENCRYPTION_METHOD	<i>encryption_method</i>
ZIP_STAT_FLAGS	<i>flags</i>

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

The function **zip_stat()** can fail for any of the errors specified for the routine `zip_name_locate(3)`.

The function **zip_stat_index()** fails and sets the error information to ZIP_ER_INVALID if *index* is invalid. If ZIP_FL_UNCHANGED is not set and no information can be obtained from the source callback, the error information is set to ZIP_ER_CHANGED.

SEE ALSO

`libzip(3)`, `zip_get_num_entries(3)`, `zip_name_locate(3)`, `zip_stat_init(3)`

HISTORY

zip_stat() was added in libzip 0.6. In libzip 0.11 the type of *flags* was changed from *int* to *zip_flags_t*.

zip_stat_index() was added in libzip 0.6. In libzip 0.10 the type of *index* was changed from *int* to *zip_uint64_t*. In libzip 0.11 the type of *flags* was changed from *int* to *zip_flags_t*.

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