

**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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