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	*name*
ZIP_STAT_INDEX	*index*
ZIP_STAT_SIZE	*size*
ZIP_STAT_COMP_SIZE	*comp_size*
ZIP_STAT_MTIME	*mtime*
ZIP_STAT_CRC	*crc*
ZIP_STAT_COMP_METHOD	*comp_method*
ZIP_STAT_ENCRYPTION_METHOD	*encryption_method*
ZIP_STAT_FLAGS	*flags*

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_INVAL 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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