

NAME

archive_entry_atime, **archive_entry_atime_nsec**, **archive_entry_atime_is_set**,
archive_entry_set_atime, **archive_entry_unset_atime**,
archive_entry_birthtime, **archive_entry_birthtime_nsec**,
archive_entry_birthtime_is_set, **archive_entry_set_birthtime**,
archive_entry_unset_birthtime, **archive_entry_ctime**,
archive_entry_ctime_nsec, **archive_entry_ctime_is_set**,
archive_entry_set_ctime, **archive_entry_unset_ctime**, **archive_entry_mtime**,
archive_entry_mtime_nsec, **archive_entry_mtime_is_set**,
archive_entry_set_mtime, **archive_entry_unset_mtime** — functions for manipulating
times in archive entry descriptions

LIBRARY

Streaming Archive Library (libarchive, -larchive)

SYNOPSIS

```
#include <archive_entry.h>

time_t
archive_entry_atime(struct archive_entry *a);

long
archive_entry_atime_nsec(struct archive_entry *a);

int
archive_entry_atime_is_set(struct archive_entry *a);

void
archive_entry_set_atime(struct archive_entry *a, time_t sec, long nanosec);

void
archive_entry_unset_atime(struct archive_entry *a);

time_t
archive_entry_birthtime(struct archive_entry *a);

long
archive_entry_birthtime_nsec(struct archive_entry *a);

int
archive_entry_birthtime_is_set(struct archive_entry *a);

void
archive_entry_set_birthtime(struct archive_entry *a, time_t sec,
    long nanosec);

void
archive_entry_unset_birthtime(struct archive_entry *a);

time_t
archive_entry_ctime(struct archive_entry *a);

long
archive_entry_ctime_nsec(struct archive_entry *a);

int
archive_entry_ctime_is_set(struct archive_entry *a);
```

```
void
archive_entry_set_ctime(struct archive_entry *a, time_t sec, long nanosec);
void
archive_entry_unset_ctime(struct archive_entry *a);
time_t
archive_entry_mtime(struct archive_entry *a);
long
archive_entry_mtime_nsec(struct archive_entry *a);
int
archive_entry_mtime_is_set(struct archive_entry *a);
void
archive_entry_set_mtime(struct archive_entry *a, time_t sec, long nanosec);
void
archive_entry_unset_mtime(struct archive_entry *a);
```

DESCRIPTION

These functions create and manipulate the time fields in an *archive_entry*. Supported time fields are atime (access time), birthtime (creation time), ctime (last time an inode property was changed) and mtime (modification time).

`libarchive(3)` provides a high-resolution interface. The timestamps are truncated automatically depending on the archive format (for archiving) or the filesystem capabilities (for restoring).

All timestamp fields are optional. The **XXX_unset()** functions can be used to mark the corresponding field as missing. The current state can be queried using **XXX_is_set()**. Unset time fields have a second and nanosecond field of 0.

SEE ALSO

`archive_entry(3)`, `libarchive(3)`

HISTORY

The **libarchive** library first appeared in FreeBSD 5.3.

AUTHORS

The **libarchive** library was written by Tim Kientzle <kientzle@acm.org>.