

## 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

## 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(3), archive\_entry(3)

## HISTORY

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

## AUTHORS

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