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(3), archive_entry(3)

HISTORY

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

AUTHORS

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