

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>.