

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

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