

NAME

pthread_rwlock_unlock - release a read/write lock

LIBRARY

POSIX Threads Library (libpthread, -lpthread)

SYNOPSIS

```
#include <pthread.h>
```

int

```
pthread_rwlock_unlock(pthread_rwlock_t *lock);
```

DESCRIPTION

The **pthread_rwlock_unlock()** function is used to release the read/write lock previously obtained by **pthread_rwlock_rdlock()**, **pthread_rwlock_wrlock()**, **pthread_rwlock_tryrdlock()**, or **pthread_rwlock_trywrlock()**.

RETURN VALUES

If successful, the **pthread_rwlock_unlock()** function will return zero. Otherwise an error number will be returned to indicate the error.

The results are undefined if *lock* is not held by the calling thread.

ERRORS

The **pthread_rwlock_unlock()** function may fail if:

[EINVAL] The value specified by *lock* is invalid.

[EPERM] The current thread does not own the read/write lock.

SEE ALSO

pthread_rwlock_rdlock(3), pthread_rwlock_wrlock(3)

STANDARDS

The **pthread_rwlock_unlock()** function is expected to conform to Version 2 of the Single UNIX Specification ("SUSv2").

HISTORY

The **pthread_rwlock_unlock()** function first appeared in FreeBSD 3.0.