

**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.