

**NAME**

**rwmtx\_rdlock** - acquire a read lock

**SYNOPSIS**

library "threads"

**#include** <threadse.h>

*int*

**rwmtx\_rdlock**(*rwmtx\_t \*rw*);

**DESCRIPTION**

The function **rwmtx\_rdlock**() will acquire a read lock on the given read/write lock *rw*. If a write lock is acquired on the lock, the thread will be stalled until the read lock can be acquired.

A thread can hold multiple read locks at the same time, **rwmtx\_unlock**(3) must be called for each acquired lock.

**RETURN VALUES**

Upon success **rwmtx\_rdlock**() will return *thrd\_success*. In case of error *thrd\_error* will be returned.

**SEE ALSO**

**rwmtx\_init**(3) **rwmtx\_destroy**(3) **rwmtx\_wrlock**(3) **rwmtx\_tryrdlock**(3) **rwmtx\_trywrlock**(3)  
**rwmtx\_timedrdlock**(3) **rwmtx\_timedwrlock**(3) **rwmtx\_unlock**(3)

**HISTORY**

The **rwmtx\_rdlock**() function first appeared in the Adelsbach Enhanced Threading Library.

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