

**NAME**

**rwmtx\_tryrdlock** - attempt to acquire a read lock

**SYNOPSIS**

```
library "threads"
```

```
#include <threadse.h>
```

```
int
```

```
rwmtx_tryrdlock(rwmtx_t *rw);
```

**DESCRIPTION**

The function **rwmtx\_tryrdlock()** will attempt to acquire a read lock on the given read/write lock *rw*. If a read lock cannot be acquired the function will return a respective return code.

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\_tryrdlock()** will return *thrd\_success* if a read lock has been acquired. If no read lock can be acquired at this time *thrd\_busy* will be returned. In case of error *thrd\_error* will be returned.

**SEE ALSO**

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

**HISTORY**

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

**AUTHORS**

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