

**NAME**

**pthread\_rwlockattr\_setpshared** - set the process shared attribute

**LIBRARY**

POSIX Threads Library (libpthread, -lpthread)

**SYNOPSIS**

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

*int*

```
pthread_rwlockattr_setpshared(pthread_rwlockattr_t *attr, int pshared);
```

**DESCRIPTION**

The **pthread\_rwlockattr\_setpshared()** function sets the process shared attribute of *attr* to the value referenced by *pshared*. The *pshared* argument may be one of two values:

**PTHREAD\_PROCESS\_SHARED** Any thread of any process that has access to the memory where the read/write lock resides can manipulate the lock.

**PTHREAD\_PROCESS\_PRIVATE** Only threads created within the same process as the thread that initialized the read/write lock can manipulate the lock. This is the default value.

**RETURN VALUES**

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

**ERRORS**

The **pthread\_rwlockattr\_setpshared()** function will fail if:

[EINVAL]           The value specified by *attr* or *pshared* is invalid.

**SEE ALSO**

pthread\_rwlock\_init(3), pthread\_rwlockattr\_getpshared(3), pthread\_rwlockattr\_init(3)

**STANDARDS**

The **pthread\_rwlockattr\_setpshared()** function is expected to conform to Version 2 of the Single UNIX Specification ("SUSv2").

**HISTORY**

The **pthread\_rwlockattr\_setpshared()** function first appeared in FreeBSD 3.0. Support for process-shared read/write locks appeared in FreeBSD 11.0.