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## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'pthread\_mutexattr\_setpshared.3'***

***\$ man pthread\_mutexattr\_setpshared.3***

PTHREAD\_MUTEXATTR\_GETPSHARED(3) Linux Programmer's Manual

PTHREAD\_MUTEXATTR\_GETPSHARED(3)

NAME

pthread\_mutexattr\_getpshared, pthread\_mutexattr\_setpshared - get/set process-shared mutex attribute

SYNOPSIS

```
#include <pthread.h>

int pthread_mutexattr_getpshared(const pthread_mutexattr_t *attr,
                                int *pshared);

int pthread_mutexattr_setpshared(pthread_mutexattr_t *attr,
                                int pshared);
```

Compile and link with -pthread.

DESCRIPTION

These functions get and set the process-shared attribute in a mutex attributes object.

This attribute must be appropriately set to ensure correct, efficient operation of a mutex created using this attributes object.

The process-shared attribute can have one of the following values:

PTHREAD\_PROCESS\_PRIVATE

Mutexes created with this attributes object are to be shared only among threads in the same process that initialized the mutex. This is the default value for the process-shared mutex attribute.

PTHREAD\_PROCESS\_SHARED

Mutexes created with this attributes object can be shared between any threads that

have access to the memory containing the object, including threads in different processes.

`pthread_mutexattr_getpshared()` places the value of the process-shared attribute of the mutex attributes object referred to by `attr` in the location pointed to by `pshared`.

`pthread_mutexattr_setpshared()` sets the value of the process-shared attribute of the mutex attributes object referred to by `attr` to the value specified in `pshared`.

If `attr` does not refer to an initialized mutex attributes object, the behavior is undefined.

## RETURN VALUE

On success, these functions return 0. On error, they return a positive error number.

## ERRORS

`pthread_mutexattr_setpshared()` can fail with the following errors:

**EINVAL** The value specified in `pshared` is invalid.

**ENOTSUP**

`pshared` is `PTHREAD_PROCESS_SHARED` but the implementation does not support process-shared mutexes.

## CONFORMING TO

POSIX.1-2001, POSIX.1-2008.

## SEE ALSO

`pthread_mutexattr_init(3)`,  `pthreads(7)`

## COLOPHON

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