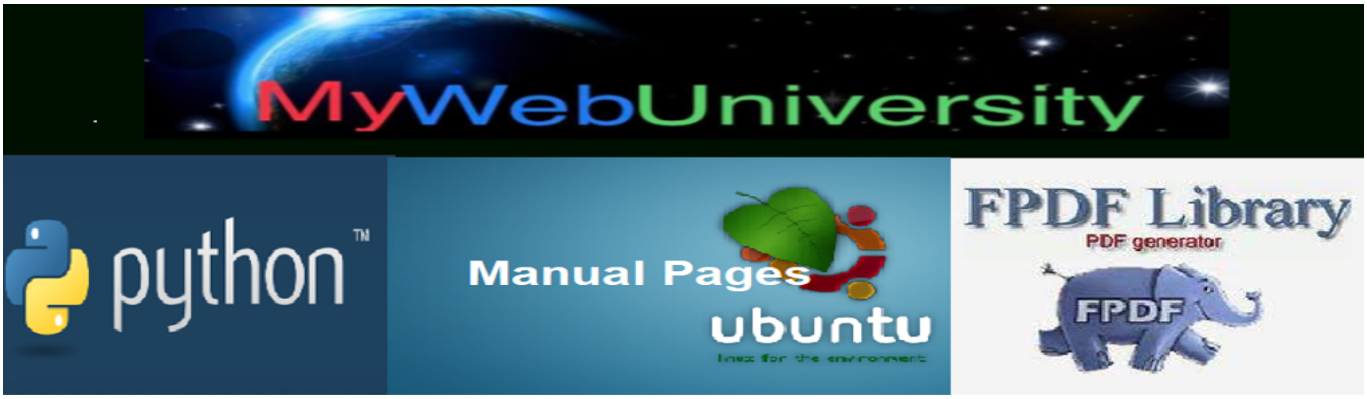

Rocky Enterprise Linux 9.2 Manual Pages on command 'pthread_mutexattr_getpshared.3'

$ man pthread_mutexattr_getpshared.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 mu? tex 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 unde? fined.

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

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.