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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'pthread_condattr_getpshared.3p' command

`$ man pthread_condattr_getpshared.3p`

PTHREAD_CONDATTR_GETPSHAREDPOSIX Programmer's MPTHREAD_CONDATTR_GETPSHARED(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

`pthread_condattr_getpshared`, `pthread_condattr_setpshared` ? get and set the process-shared condition variable attributes

SYNOPSIS

```
#include <pthread.h>

int pthread_condattr_getpshared(const pthread_condattr_t *restrict attr,
    int *restrict pshared);

int pthread_condattr_setpshared(pthread_condattr_t *attr,
    int pshared);
```

DESCRIPTION

The `pthread_condattr_getpshared()` function shall obtain the value of the process-shared attribute from the attributes object referenced by `attr`.

The `pthread_condattr_setpshared()` function shall set the process-shared attribute in an initialized attributes object referenced by `attr`.

The process-shared attribute is set to `PTHREAD_PROCESS_SHARED` to permit a condition variable to be operated upon by any thread that has access

to the memory where the condition variable is allocated, even if the condition variable is allocated in memory that is shared by multiple processes. See Section 2.9.9, Synchronization Object Copies and Attribute Mappings for further requirements. The default value of the attribute is `PTHREAD_PROCESS_PRIVATE`.

The behavior is undefined if the value specified by the `attr` argument to `pthread_condattr_getpshared()` or `pthread_condattr_setpshared()` does not refer to an initialized condition variable attributes object.

RETURN VALUE

If successful, the `pthread_condattr_setpshared()` function shall return zero; otherwise, an error number shall be returned to indicate the error.

If successful, the `pthread_condattr_getpshared()` function shall return zero and store the value of the process-shared attribute of `attr` into the object referenced by the `pshared` parameter. Otherwise, an error number shall be returned to indicate the error.

ERRORS

The `pthread_condattr_setpshared()` function may fail if:

EINVAL The `new` value specified for the attribute is outside the range of legal values for that attribute.

These functions shall not return an error code of `[EINTR]`.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

If an implementation detects that the value specified by the `attr` argument to `pthread_condattr_getpshared()` or `pthread_condattr_setpshared()` does not refer to an initialized condition variable attributes object, it is recommended that the function should fail and report an `[EINVAL]` error.

FUTURE DIRECTIONS

None.

SEE ALSO

`pthread_create()`, `pthread_cond_destroy()`, `pthread_condattr_destroy()`,
`pthread_mutex_destroy()`

The Base Definitions volume of POSIX.1-2017, `<pthread.h>`

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