



Linux Ubuntu 26.04 Manual Pages on command 'pthread_attr_setaffinity_np.3'

\$ man pthread_attr_setaffinity_np.3

pthread_attr_setaffinity_np(3) Library Functions Manual pthread_attr_setaffinity_np(3)

NAME

pthread_attr_setaffinity_np, pthread_attr_getaffinity_np - set/get CPU affinity attribute in thread attributes object

LIBRARY

POSIX threads library (libpthread, -lpthread)

SYNOPSIS

```
#define _GNU_SOURCE          /* See feature_test_macros(7) */

#include <pthread.h>

int pthread_attr_setaffinity_np(pthread_attr_t *attr,
                                size_t cpusetsize, const cpu_set_t *cpuset);

int pthread_attr_getaffinity_np(const pthread_attr_t *attr,
                                size_t cpusetsize, cpu_set_t *cpuset);
```

DESCRIPTION

The `pthread_attr_setaffinity_np()` function sets the CPU affinity mask attribute of the thread attributes object referred to by `attr` to the value specified in `cpuset`. This attribute determines the CPU affinity mask of a thread created using the thread attributes object `attr`.

The `pthread_attr_getaffinity_np()` function returns the CPU affinity mask attribute of the thread attributes object referred to by `attr` in the buffer pointed to by `cpuset`.

The argument `cpusetsize` is the length (in bytes) of the buffer pointed to by `cpuset`. Typically, this argument would be specified as `sizeof(cpu_set_t)`.

For more details on CPU affinity masks, see `sched_setaffinity(2)`. For a description of a

