

**NAME**

**pthread\_switch\_add\_np**, **pthread\_switch\_delete\_np** - thread context switches debugging primitives

**LIBRARY**

POSIX Threads Library (libpthread, -lpthread)

**SYNOPSIS**

```
#include <pthread_np.h>
```

*int*

```
pthread_switch_add_np(pthread_switch_routine_t routine);
```

*int*

```
pthread_switch_delete_np(pthread_switch_routine_t routine);
```

**DESCRIPTION**

An application is allowed to monitor the thread context switches inside the threading library. An application can install a routine that gets called every time a thread (explicitly created by an application with the `pthread_create(3)` function) gets the context switched. The routine is passed the thread IDs of the threads that are being switched in and out. Installation and removal of these hooks may be done using the `pthread_switch_add_np()` and `pthread_switch_delete_np()` functions respectively.

**RETURN VALUES**

If successful, these functions return 0. Otherwise, an error number is returned to indicate the error.

**ERRORS**

The `pthread_switch_add_np()` may fail if:

[EINVAL]            NULL pointer was passed in the *routine* argument.

The `pthread_switch_delete_np()` may fail if:

[EINVAL]            The *routine* argument is different from the argument previously passed to the `pthread_switch_add_np()` function.

**SEE ALSO**

`pthread_create(3)`, `pthread_np(3)`

**AUTHORS**

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