

NAME

pthread_atfork - register fork handlers

LIBRARY

POSIX Threads Library (libpthread, -lpthread)

SYNOPSIS

```
#include <pthread.h>
```

int

```
pthread_atfork(void (*prepare)(void), void (*parent)(void), void (*child)(void));
```

DESCRIPTION

The **pthread_atfork()** function declares fork handlers to be called before and after `fork(2)`, in the context of the thread that called `fork(2)`.

The handlers registered with **pthread_atfork()** are called at the moments in time described below:

prepare Before `fork(2)` processing commences in the parent process. If more than one *prepare* handler is registered they will be called in the opposite order they were registered.

parent After `fork(2)` completes in the parent process. If more than one *parent* handler is registered they will be called in the same order they were registered.

child After `fork(2)` processing completes in the child process. If more than one *child* handler is registered they will be called in the same order they were registered.

If no handling is desired at one or more of these three points, a null pointer may be passed as the corresponding fork handler.

RETURN VALUES

If successful, the **pthread_atfork()** function will return zero. Otherwise an error number will be returned to indicate the error.

ERRORS

The **pthread_atfork()** function will fail if:

[ENOMEM] Insufficient table space exists to record the fork handler addresses.

SEE ALSO

fork(2), pthread(3)

STANDARDS

The **pthread_atfork()** function is expected to conform to IEEE Std 1003.1 ("POSIX.1").

AUTHORS

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