

NAME

pthread_sigmask - examine and/or change a thread's signal mask

LIBRARY

POSIX Threads Library (libpthread, -lpthread)

SYNOPSIS

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

```
#include <signal.h>
```

int

```
pthread_sigmask(int how, const sigset_t * restrict set, sigset_t * restrict oset);
```

DESCRIPTION

The **pthread_sigmask()** function examines and/or changes the calling thread's signal mask.

If *set* is not NULL, it specifies a set of signals to be modified, and *how* specifies what to set the signal mask to:

SIG_BLOCK Union of the current mask and *set*.

SIG_UNBLOCK Intersection of the current mask and the complement of *set*.

SIG_SETMASK *set*.

If *oset* is not NULL, the previous signal mask is stored in the location pointed to by *oset*.

SIGKILL and **SIGSTOP** cannot be blocked, and will be silently ignored if included in the signal mask.

RETURN VALUES

If successful, **pthread_sigmask()** returns 0. Otherwise, an error is returned.

ERRORS

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

[EINVAL] *how* is not one of the defined values.

SEE ALSO

sigaction(2), sigpending(2), sigprocmask(2), sigsuspend(2), sigsetops(3)

STANDARDS

The **pthread_sigmask()** function conforms to ISO/IEC 9945-1:1996 ("POSIX.1")