

NAME

sigreturn - return from signal

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <signal.h>

int

sigreturn(*const ucontext_t *scp*);

DESCRIPTION

The **sigreturn()** system call allows users to atomically unmask, switch stacks, and return from a signal context. The thread's signal mask and stack status are restored from the context structure pointed to by *scp*. The system call does not return; the users stack pointer, frame pointer, argument pointer, and processor status longword are restored from the context. Execution resumes at the specified pc. This system call is used by the trampoline code and **longjmp(3)** when returning from a signal to the previously executing program.

RETURN VALUES

If successful, the system call does not return. Otherwise, a value of -1 is returned and *errno* is set to indicate the error.

ERRORS

The **sigreturn()** system call will fail and the thread context will remain unchanged if one of the following occurs.

[EFAULT]	The <i>scp</i> argument points to memory that is not a valid part of the process address space.
[EINVAL]	The process status longword is invalid or would improperly raise the privilege level of the process.

SEE ALSO

sigaction(2), **setjmp(3)**, **ucontext(3)**

HISTORY

The **sigreturn()** system call appeared in 4.3BSD.