

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.