

NAME

setreuid, setregid – set real and/or effective user or group ID

SYNOPSIS

```
#include <sys/types.h>
#include <unistd.h>
```

```
int setreuid(uid_t ruid, uid_t euid);
int setregid(gid_t rgid, gid_t egid);
```

Feature Test Macro Requirements for glibc (see **feature_test_macros(7)**):

```
setreuid(), setregid(): _BSD_SOURCE || _XOPEN_SOURCE >= 500
```

DESCRIPTION

setreuid() sets real and effective user IDs of the calling process.

Supplying a value of `-1` for either the real or effective user ID forces the system to leave that ID unchanged.

Unprivileged processes may only set the effective user ID to the real user ID, the effective user ID or the saved set-user-ID.

POSIX: It is unspecified whether unprivileged processes may set the real user ID to the real user ID, the effective user ID or the saved set-user-ID.

Linux: Unprivileged users may only set the real user ID to the real user ID or the effective user ID.

Linux: If the real user ID is set or the effective user ID is set to a value not equal to the previous real user ID, the saved set-user-ID will be set to the new effective user ID.

Completely analogously, **setregid()** sets real and effective group ID's of the calling process, and all of the above holds with "group" instead of "user".

RETURN VALUE

On success, zero is returned. On error, `-1` is returned, and *errno* is set appropriately.

ERRORS**EPERM**

The calling process is not privileged (Linux: does not have the **CAP_SETUID** capability in the case of **setreuid()**, or the **CAP_SETGID** capability in the case of **setregid()**) and a change other than (i) swapping the effective user (group) ID with the real user (group) ID, or (ii) setting one to the value of the other or (iii) setting the effective user (group) ID to the value of the saved set-user-ID (saved set-group-ID) was specified.

CONFORMING TO

POSIX.1-2001, 4.3BSD (the **setreuid()** and **setregid()** function calls first appeared in 4.2BSD).

NOTES

Setting the effective user (group) ID to the saved set-user-ID (saved set-group-ID) is possible since Linux 1.1.37 (1.1.38).

SEE ALSO

getgid(2), **getuid(2)**, **seteuid(2)**, **setgid(2)**, **setresuid(2)**, **setuid(2)**, **capabilities(7)**

COLOPHON

This page is part of release 3.22 of the Linux *man-pages* project. A description of the project, and information about reporting bugs, can be found at <http://www.kernel.org/doc/man-pages/>.