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Rocky Enterprise Linux 9.2 Manual Pages on command 'setegid.2'

\$ man setegid.2

SETEUID(2)

Linux Programmer's Manual

SETEUID(2)

NAME

seteuid, setegid - set effective user or group ID

SYNOPSIS

```
#include <sys/types.h>
#include <unistd.h>
int seteuid(uid_t euid);
int setegid(gid_t egid);
```

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

```
seteuid(), setegid():
_POSIX_C_SOURCE >= 200112L
|| /* Glibc versions <= 2.19: */ _BSD_SOURCE
```

DESCRIPTION

`seteuid()` sets the effective user ID of the calling process. Unprivileged processes may only set the effective user ID to the real user ID, the effective user ID or the saved set-user-ID.

Precisely the same holds for `setegid()` with "group" instead of "user".

RETURN VALUE

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

Note: there are cases where `seteuid()` can fail even when the caller is UID 0; it is a grave security error to omit checking for a failure return from `seteuid()`.

ERRORS

`EINVAL` The target user or group ID is not valid in this user namespace.

EPERM In the case of seteuid(): the calling process is not privileged (does not have the CAP_SETUID capability in its user namespace) and euid does not match the current real user ID, current effective user ID, or current saved set-user-ID.

In the case of setegid(): the calling process is not privileged (does not have the CAP_SETGID capability in its user namespace) and egid does not match the current real group ID, current effective group ID, or current saved set-group-ID.

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, 4.3BSD.

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). On an arbitrary system one should check `_POSIX_SAVED_IDS`.

Under glibc 2.0, seteuid(euid) is equivalent to setreuid(-1, euid) and hence may change the saved set-user-ID. Under glibc 2.1 and later, it is equivalent to setresuid(-1, euid, -1) and hence does not change the saved set-user-ID. Analogous remarks hold for setegid(), with the difference that the change in implementation from setregid(-1, egid) to setresgid(-1, egid, -1) occurred in glibc 2.2 or 2.3 (depending on the hardware architecture).

According to POSIX.1, seteuid() (setegid()) need not permit euid (egid) to be the same value as the current effective user (group) ID, and some implementations do not permit this.

C library/kernel differences

On Linux, seteuid() and setegid() are implemented as library functions that call, respectively, setreuid(2) and setregid(2).

SEE ALSO

`geteuid(2)`, `setresuid(2)`, `setreuid(2)`, `setuid(2)`, `capabilities(7)`, `credentials(7)`, `user_namespaces(7)`

COLOPHON

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