

## NAME

setresuid, setresgid – set real, effective and saved user or group ID

## SYNOPSIS

```
#define _GNU_SOURCE
#include <unistd.h>

int setresuid(uid_t ruid, uid_t euid, uid_t suid);
int setresgid(gid_t rgid, gid_t egid, gid_t sgid);
```

## DESCRIPTION

**setresuid()** sets the real user ID, the effective user ID, and the saved set-user-ID of the calling process.

Unprivileged user processes may change the real UID, effective UID, and saved set-user-ID, each to one of: the current real UID, the current effective UID or the current saved set-user-ID.

Privileged processes (on Linux, those having the **CAP\_SETUID** capability) may set the real UID, effective UID, and saved set-user-ID to arbitrary values.

If one of the arguments equals `-1`, the corresponding value is not changed.

Regardless of what changes are made to the real UID, effective UID, and saved set-user-ID, the file system UID is always set to the same value as the (possibly new) effective UID.

Completely analogously, **setresgid()** sets the real GID, effective GID, and saved set-group-ID of the calling process (and always modifies the file system GID to be the same as the effective GID), with the same restrictions for non-privileged processes.

## RETURN VALUE

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

## ERRORS

### EAGAIN

*uid* does not match the current UID and this call would bring that user ID over its **RLIMIT\_NPROC** resource limit.

### EPERM

The calling process is not privileged (did not have the **CAP\_SETUID** capability) and tried to change the IDs to values that are not permitted.

## VERSIONS

These calls are available under Linux since Linux 2.1.44.

## CONFORMING TO

These calls are non-standard; they also appear on HP-UX and some of the BSDs.

## NOTES

Under HP-UX and FreeBSD the prototype is found in `<unistd.h>`. Under Linux the prototype is provided by glibc since version 2.3.2.

## SEE ALSO

**getresuid(2)**, **getuid(2)**, **setfsuid(2)**, **setfsgid(2)**, **setreuid(2)**, **setuid(2)**, **capabilities(7)**, **credentials(7)**, **feature\_test\_macros(7)**

## COLOPHON

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