## NAME

setgid − set group identity

## SYNOPSIS

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

**int setgid(gid_t** *gid***);**

## DESCRIPTION

**setgid**() sets the effective group ID of the calling process. If the caller is the superuser, the real GID and saved set-group-ID are also set.

Under Linux, **setgid**() is implemented like the POSIX version with the **_POSIX_SAVED_IDS** feature. This allows a set-group-ID program that is not set-user-ID-root to drop all of its group privileges, do some un-privileged work, and then re-engage the original effective group ID in a secure manner.

## 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 (does not have the **CAP_SETGID** capability), and *gid* does not match the effective group ID or saved set-group-ID of the calling process.

## CONFORMING TO

SVr4, POSIX.1-2001.

## SEE ALSO

**getgid**(2), **setegid**(2), **setregid**(2), **capabilities**(7), **credentials**(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/.