

**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**

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