



Linux Ubuntu 26.04 Manual Pages on command 'tcsetpgrp.3'

\$ man tcsetpgrp.3

tcsetpgrp(3) Library Functions Manual tcsetpgrp(3)

NAME

tcgetpgrp, tcsetpgrp - get and set terminal foreground process group

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <unistd.h>

pid_t tcgetpgrp(int fd);

int tcsetpgrp(int fd, pid_t pgrp);
```

DESCRIPTION

The function `tcgetpgrp()` returns the process group ID of the foreground process group on the terminal associated to `fd`, which must be the controlling terminal of the calling process.

The function `tcsetpgrp()` makes the process group with process group ID `pgrp` the foreground process group on the terminal associated to `fd`, which must be the controlling terminal of the calling process, and still be associated with its session. Moreover, `pgrp` must be a (nonempty) process group belonging to the same session as the calling process.

If `tcsetpgrp()` is called by a member of a background process group in its session, and the calling process is not blocking or ignoring `SIGTTOU`, a `SIGTTOU` signal is sent to all members of this background process group.

RETURN VALUE

When `fd` refers to the controlling terminal of the calling process, the function `tcgetpgrp()` will return the foreground process group ID of that terminal if there is one, and some value larger than 1 that is not presently a process group ID otherwise. When `fd` does not refer to

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EBADF fd is not a valid file descriptor.

ENOTTY The calling process does not have a controlling terminal, or it has one but it is not

described by fd, or, for tcsetpgrp(), this controlling terminal is no longer associ?

ated with the session of the calling process.

EPERM pgrp has a supported value, but is not the process group ID of a process in the same

session as the calling process.

For an explanation of the terms used in this section, see `attributes(7)`.

[illegible]

?	Interface	?	Attribute	?	Value	?
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[illegible]

? tcgetpgrp(), tcsetpgrp() ? Thread safety ? MT-Safe ?

[illegible]

These functions are implemented via the TIOCGGRP and TIOCSPGRP ioctls.

POSIX.1-2008.

POSIX.1-2001.

The `ioctl`s appeared in 4.2BSD. The functions are POSIX inventions.

```
setpgid(2), setsid(2), credentials(7)
```