



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

\$ man tcgetpgrp.3

tcgetpgrp(3) Library Functions Manual tcgetpgrp(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

the controlling terminal of the calling process, -1 is returned, and errno is set to indicate the error.

When successful, tcsetpgrp() returns 0. Otherwise, it returns -1, and errno is set to indicate the error.

ERRORS

EBADF fd is not a valid file descriptor.

EINVAL pgrp has an unsupported value.

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 associated 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.

ATTRIBUTES

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

Interface Attribute Value

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

VERSIONS

These functions are implemented via the TIOCGPRG and TIOCSPGRP ioctls.

STANDARDS

POSIX.1-2008.

HISTORY

POSIX.1-2001.

The ioctls appeared in 4.2BSD. The functions are POSIX inventions.

SEE ALSO

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