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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'tcgetpgrp.3' command

\$ man tcgetpgrp.3

TCGETPGRP(3) Linux Programmer's Manual TCGETPGRP(3)

NAME

tcgetpgrp, tcsetpgrp - get and set terminal foreground process group

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 appropriately.

When successful, `tcsetpgrp()` returns 0. Otherwise, it returns -1, and `errno` is set appropriately.

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\(7\)](#).

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?Interface ? Attribute ? Value ?

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

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CONFORMING TO

POSIX.1-2001, POSIX.1-2008.

NOTES

These functions are implemented via the `TIOCGPGRP` and `TIOCSPGRP` ioctls.

History

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

SEE ALSO

[setpgid\(2\)](#), [setsid\(2\)](#), [credentials\(7\)](#)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

GNU

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