NAME

killpg − send signal to a process group

SYNOPSIS

#include <signal.h>

int killpg(int *pgrp***, int** *sig***);**

Feature Test Macro Requirements for glibc (see **feature_test_macros**(7)):

killpg():
>   _XOPEN_SOURCE >= 500
> || /* Since glibc 2.19: */ _DEFAULT_SOURCE
> || /* Glibc versions <= 2.19: */ _BSD_SOURCE

DESCRIPTION

killpg() sends the signal *sig* to the process group *pgrp*. See **signal**(7) for a list of signals.

If *pgrp* is 0, **killpg**() sends the signal to the calling process's process group. (POSIX says: if *pgrp* is less than or equal to 1, the behavior is undefined.)

For the permissions required to send a signal to another process, see **kill**(2).

RETURN VALUE

On success, zero is returned. On error, −1 is returned, and *errno* is set appropriately.

ERRORS

EINVAL
> *sig* is not a valid signal number.

EPERM
> The process does not have permission to send the signal to any of the target processes. For the required permissions, see **kill**(2).

ESRCH
> No process can be found in the process group specified by *pgrp*.

ESRCH
> The process group was given as 0 but the sending process does not have a process group.

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, SVr4, 4.4BSD (**killpg**() first appeared in 4BSD).

NOTES

There are various differences between the permission checking in BSD-type systems and System V-type systems. See the POSIX rationale for **kill**(). A difference not mentioned by POSIX concerns the return value **EPERM**: BSD documents that no signal is sent and **EPERM** returned when the permission check failed for at least one target process, while POSIX documents **EPERM** only when the permission check failed for all target processes.

C library/kernel differences

On Linux, **killpg**() is implemented as a library function that makes the call *kill(-pgrp, sig)*.

SEE ALSO

getpgrp(2), **kill**(2), **signal**(2), **capabilities**(7), **credentials**(7)

COLOPHON

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