Linux Ubuntu 22.4.5 Manual Pages on command 'killpg.2'

$ man killpg.2

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

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 appropri?

    ately.

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

This page is part of release 5.05 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/.