NAME

getpgrp - get process group

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <unistd.h>

pid_t
getpgrp(*void*);

pid_t
getpgid(*pid_t pid*);

DESCRIPTION

The process group of the current process is returned by **getpgrp**(). The process group of the process identified by *pid* is returned by **getpgid**(). If *pid* is zero, **getpgid**() returns the process group of the current process.

Process groups are used for distribution of signals, and by terminals to arbitrate requests for their input: processes that have the same process group as the terminal are foreground and may read, while others will block with a signal if they attempt to read.

This system call is thus used by programs such as csh(1) to create process groups in implementing job control. The **tcgetpgrp**() and **tcsetpgrp**() calls are used to get/set the process group of the control terminal.

RETURN VALUES

The **getpgrp**() system call always succeeds. Upon successful completion, the **getpgid**() system call returns the process group of the specified process; otherwise, it returns a value of -1 and sets *errno* to indicate the error.

COMPATIBILITY

This version of **getpgrp**() differs from past Berkeley versions by not taking a *pid_t pid* argument. This incompatibility is required by IEEE Std 1003.1-1990 ("POSIX.1").

From the IEEE Std 1003.1-1990 ("POSIX.1") Rationale:

4.3BSD provides a **getpgrp**() system call that returns the process group ID for a specified process.

Although this function is used to support job control, all known job-control shells always specify the calling process with this function. Thus, the simpler AT&T System V UNIX **getpgrp**() suffices, and the added complexity of the 4.3BSD **getpgrp**() has been omitted from POSIX.1. The old functionality is available from the **getpgid**() system call.

ERRORS

The **getpgid**() system call will succeed unless:

[ESRCH]   there is no process whose process ID equals *pid*

SEE ALSO

getsid(2), setpgid(2), termios(4)

STANDARDS

The **getpgrp**() system call is expected to conform to IEEE Std 1003.1-1990 ("POSIX.1").

HISTORY

The **getpgrp**() system call appeared in 4.0BSD. The **getpgid**() system call is derived from its usage in AT&T System V Release 4 UNIX.