NAME

pget - locate a process by number

SYNOPSIS

#include <sys/param.h>
#include <sys/proc.h>

int
pget(*pid_t pid, int flags, struct proc **pp*);

DESCRIPTION

This function takes a *pid* as its argument, which can be either a process or thread id, and fills a pointer to the *proc* structure in **pp*. In the latter case, a process owning the specified thread is looked for. The operation is performed by invoking the pfind(9) function. The found process is returned locked. For the PGET_HOLD case, it is returned unlocked (but held). The **pget**() function can perform additional manipulations, depending on a *flags* argument.

The *flags* argument is the logical OR of some subset of:

PGET_HOLD If set, the found process will be held and unlocked.

PGET_CANSEE If set, the found process will be checked for its visibility. See p_cansee(9).

PGET_CANDEBUG If set, the found process will be checked for its debuggability. See p_candebug(9).

PGET_ISCURRENT If set, the found process will be checked that it matches the current process context.

PGET_NOTWEXIT If set, the found process will be checked that it does not have the process flag P_WEXIT set.

PGET_NOTINEXEC If set, the found process will be checked that it does not have the process flag P_INEXEC set.

PGET_NOTID If set, *pid* is not assumed as a thread id for values larger than PID_MAX.

PGET_WANTREAD If set, the found process will be checked that the caller may get a read access to its structure. A shorthand for (PGET_HOLD | PGET_CANDEBUG | PGET_NOTWEXIT).

RETURN VALUES

If the process is found in the specified way, then zero is returned, otherwise an appropriate error code is returned.

SEE ALSO

p_candebug(9), p_cansee(9), pfind(9)