NAME

openproc, closeproc - initialize process information from /proc/

SYNOPSIS

#include <proc/readproc.h>

```
PROCTAB* openproc (int flags, ...); void closeproc (PROCTAB* PT);
```

SYNOPSIS

The **openproc** function initializes a PROCTAB structure which can be used by iterated readproc calls to get information on current processes. Depending on *flags*, openproc may need a second argument or a second and third argument (see below).

closeproc closes all files opened by openproc and deallocates the memory allocated by openproc.

The PROCTAB structure is defined in proc/readproc.h>

RETURN VALUE

openproc returns a pointer to a PROCTAB structure, or NULL if an error occurs. This usually means that /proc cannot be read by the process.

FLAGS

The behaviour of **openproc** is controlled by the following set of flags, which may be ORed together. There are three different kinds of flags. The first group of flags determins which information gets read from /proc/#pid for each process. The second group of flags (of which only one can be enacted for a opendir call) restricts which processes information is read for by providing a list of criteria. The third group of flags restricts this as well, but doesn't need arguments. These may be used together again.

PROC FILLMEM

read information from /proc/#pid/statm

PROC_FILLCOM

allocate *cmdline* part of *proc_t* and read information from */proc/#pid/cmdline*

PROC_FILLENV

allocate *environ* part of *proc* t and read information from /proc/#pid/environ

PROC_FILLUSR

resolve user ids to names via /etc/passwd

PROC FILLGRP

resolve group ids to names via /etc/group

PROC_FILLSTATUS

read information from /proc/#pid/status

PROC_FILLSTAT

read information from /proc/#pid/stat

PROC FILLARG

equivalent to PROC_FILLCOM

PROC_FILLCGROUP

alloc and fill in cgroup

PROC_FILLSUPGRP

resolve supplementary group id -> group name

PROC_FILLOOM

fill in proc_t oom_score and oom_adj

PROC_FILLNS

fill in proc_t namespace information

PROC FILLSYSTEMD

fill in proc_t systemd information

PROC_LOOSE_TASKS

threat threads as if they were processes

PROC_PID (2nd argument pid_t* pidlist)

lookup only processes whose pid is contained in *pidlist* (the list is terminated with 0)

PROC_UID (arguments **uid_t*** *uidlist*, **int** *n*)

lookup only processes whose user id is contained in uidlist (where n is the number of uids contained in the list)

PROC_EDITCGRPCVT

edit cgroup as single vector

PROC EDITCMDLCVT

edit cmdline as single vector

PROC_EDITENVRCVT

edit environ as single vector

NOTE

Only one of the flags needing additional arguments (**PROC_{PID,UID}**) may be used at a time.

SEE ALSO

readproc(3), readproctab(3), /proc/, /usr/include/proc/readproc.h,

REPORTING BUGS

Please send bug reports to \(\text{procps@freelists.org} \)