NAME

daemon - run in the background

SYNOPSIS

#include <unistd.h>

int daemon(int nochdir, int noclose);

Feature Test Macro Requirements for glibc (see feature test macros(7)):

daemon():

```
Since glibc 2.21:
```

_DEFAULT_SOURCE

In glibc 2.19 and 2.20:

_DEFAULT_SOURCE || (_XOPEN_SOURCE && _XOPEN_SOURCE < 500)

Up to and including glibc 2.19:

_BSD_SOURCE || (_XOPEN_SOURCE && _XOPEN_SOURCE < 500)

DESCRIPTION

The **daemon**() function is for programs wishing to detach themselves from the controlling terminal and run in the background as system daemons.

If *nochdir* is zero, **daemon**() changes the process's current working directory to the root directory ("/"); otherwise, the current working directory is left unchanged.

If *noclose* is zero, **daemon**() redirects standard input, standard output and standard error to /dev/null; otherwise, no changes are made to these file descriptors.

RETURN VALUE

(This function forks, and if the fork(2) succeeds, the parent calls _exit(2), so that further errors are seen by the child only.) On success **daemon**() returns zero. If an error occurs, **daemon**() returns -1 and sets *errno* to any of the errors specified for the fork(2) and setsid(2).

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

Interface	Attribute	Value
daemon()	Thread safety	MT-Safe

CONFORMING TO

Not in POSIX.1. A similar function appears on the BSDs. The **daemon**() function first appeared in 4.4BSD.

NOTES

The glibc implementation can also return -1 when $\frac{dev}{null}$ exists but is not a character device with the expected major and minor numbers. In this case, errno need not be set.

BUGS

The GNU C library implementation of this function was taken from BSD, and does not employ the double-fork technique (i.e., fork(2), setsid(2), fork(2)) that is necessary to ensure that the resulting daemon process is not a session leader. Instead, the resulting daemon *is* a session leader. On systems that follow System V semantics (e.g., Linux), this means that if the daemon opens a terminal that is not already a controlling terminal for another session, then that terminal will inadvertently become the controlling terminal for the daemon.

SEE ALSO

fork(2), setsid(2), daemon(7), logrotate(8)

COLOPHON

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