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# Rocky Enterprise Linux 9.2 Manual Pages on command 'nice.2'

## \$ man nice.2

NICE(2)

Linux Programmer's Manual

NICE(2)

NAME

nice - change process priority

### **SYNOPSIS**

#include <unistd.h>

int nice(int inc);

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

nice(): XOPEN SOURCE

|| /\* Since glibc 2.19: \*/ \_DEFAULT\_SOURCE

|| /\* Glibc versions <= 2.19: \*/ \_BSD\_SOURCE || \_SVID\_SOURCE

#### **DESCRIPTION**

nice() adds inc to the nice value for the calling thread. (A higher nice value means a lower priority.)

The range of the nice value is +19 (low priority) to -20 (high priority). Attempts to set a nice value outside the range are clamped to the range.

Traditionally, only a privileged process could lower the nice value (i.e., set a higher priority). However, since Linux 2.6.12, an unprivileged process can decrease the nice value of a target process that has a suitable RLIMIT\_NICE soft limit; see getrlimit(2) for details.

#### **RETURN VALUE**

On success, the new nice value is returned (but see NOTES below). On error, -1 is re? turned, and errno is set appropriately.

A successful call can legitimately return -1. To detect an error, set errno to 0 before

the call, and check whether it is nonzero after nice() returns -1.

## **ERRORS**

EPERM The calling process attempted to increase its priority by supplying a negative inc but has insufficient privileges. Under Linux, the CAP\_SYS\_NICE capability is re? quired. (But see the discussion of the RLIMIT\_NICE resource limit in setr? limit(2).)

## **CONFORMING TO**

POSIX.1-2001, POSIX.1-2008, SVr4, 4.3BSD. However, the raw system call and (g)libc (ear? lier than glibc 2.2.4) return value is nonstandard, see below.

#### **NOTES**

For further details on the nice value, see sched(7).

Note: the addition of the "autogroup" feature in Linux 2.6.38 means that the nice value no longer has its traditional effect in many circumstances. For details, see sched(7).

## C library/kernel differences

POSIX.1 specifies that nice() should return the new nice value. However, the raw Linux system call returns 0 on success. Likewise, the nice() wrapper function provided in glibc 2.2.3 and earlier returns 0 on success.

Since glibc 2.2.4, the nice() wrapper function provided by glibc provides conformance to POSIX.1 by calling getpriority(2) to obtain the new nice value, which is then returned to the caller.

#### SEE ALSO

nice(1), renice(1), fork(2), getpriority(2), getrlimit(2), setpriority(2), capabili? ties(7), sched(7)

## COLOPHON

This page is part of release 5.10 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/.

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