Rocky Enterprise Linux 9.2 Manual Pages on command 'get_nprocs.3'

C:\>man get_nprocs.3

GET_NPROCS(3) Linux Programmer's Manual GET_NPROCS(3)

NAME

get_nprocs, get_nprocs_conf - get number of processors

SYNOPSIS

#include <sys/sysinfo.h>

int get_nprocs(void);

int get_nprocs_conf(void);

DESCRIPTION

The function get_nprocs_conf() returns the number of processors configured by the operating system.

The function get_nprocs() returns the number of processors currently available in the system. This may be less than the number returned by get_nprocs_conf() because processors may be offline (e.g., on hotpluggable systems).

RETURN VALUE

As given in DESCRIPTION.

ATTRIBUTES

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

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?Interface ? Attribute ? Value ?

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?get_nprocs(), ? Thread safety ? MT-Safe ?

?get_nprocs_conf() ? ? ?

??

CONFORMING TO

These functions are GNU extensions.

NOTES

The current implementation of these functions is rather expensive, since they open and parse files in the /sys filesystem each time they are called.

The following sysconf(3) calls make use of the functions documented on this page to return the same information.

```
np = sysconf(_SC_NPROCESSORS_CONF);     /* processors configured */
np = sysconf(_SC_NPROCESSORS_ONLN);     /* processors available */
```

EXAMPLE

The following example shows how get_nprocs() and get_nprocs_conf() can be used.

```
#include <stdlib.h>
#include <stdio.h>
#include <sys/sysinfo.h>
int
main(int argc, char *argv[])
{
    printf("This system has %d processors configured and "
           "%d processors available.\n",
           get_nprocs_conf(), get_nprocs());
    exit(EXIT_SUCCESS);
}
```

SEE ALSO

nproc(1)

COLOPHON

This page is part of release 5.05 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/.