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

\$ 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 `get_nprocs_conf()` function 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).

?Interface ? Attribute ? Value ?

?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 */
```

EXAMPLES

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 5.10 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/>.