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).

Interface	Attribute	Value
get_nprocs(), **get_nprocs_conf**()	Thread safety	MT-Safe

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 5.02 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/.