

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.

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 <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());
    return 0;
}
```

COLOPHON

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