

**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\n",
           get_nprocs_conf(), get_nprocs());
    return 0;
}
```

**COLOPHON**

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