

NAME

nproc - return number of available processing units

SYNOPSIS

nproc [-a | --all] [-i *N* | --ignore=*N*] [-h | --help] [-v | --version]

DESCRIPTION

The **nproc** command displays the number of processors available

The following options are available:

-a, --all Print the number of available processors. This ignores the OpenMP environment variables OMP_NUM_THREADS and OMP_THREAD_LIMIT.

-i *N*, --ignore=*N*

Ignore the specified number of processors. This happens after accounting for OpenMP environment variables OMP_NUM_THREADS and OMP_THREAD_LIMIT. **nproc** will always return at least 1

-h, --help

Display help and exit

-v, --version

Display version number and exit

nproc is a simple drop in replacement for the GNU coreutils nproc command often found in many operating systems. It processes command line arguments, then calls the sysctl(3) function. To perform a similar function in the shell, use the following commands:

```
$ sysctl hw.ncpu | awk '{print $2}'
```

Like GNU coreutils nproc command, unless the -a or --all option is used, the OpenMP environment variables OMP_NUM_THREADS and OMP_THREAD_LIMIT provide a minimum and maximum value for the number of processors. However, there is always at least one processor.

EXIT STATUS

The **nproc** utility exits 0 on success, and >0 if an error occurs.

SEE ALSO

sysctl(3), sysctl(8)

AUTHORS

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