

NAME

nproc — get processor count

SYNOPSIS

nproc [**-a**] [**-i** *IGN*]

DESCRIPTION

Writes the number of available CPUs, followed by a newline, to the standard output stream. This can be modeled as **max**(*cpus* − *IGN*, **1**).

OPTIONS

-a, --all Writes the number of configured CPUs, which may be more than the available ones if non-default CPU affinity is configured. This corresponds to the `_SC_NPROCESSORS_CONF` `sysconf(3)` value.

-i, --ignore=*IGN* Ignore (subtract) up to this many CPUs, if available (default **0**).

ENVIRONMENT

Without **-a**:

`OMP_NUM_THREADS` Overrides the CPU count. Must be ≥ 1 ; ignored if invalid.

`OMP_THREAD_LIMIT` Limits the CPU count to no more than the value. Must be ≥ 1 ; ignored if invalid.

SEE ALSO

`cpuset(1)`, `taskset(1)`, `cpuset_getaffinity(2)`, `pthread_getaffinity_np(3)`, `sysconf(3)`

STANDARDS

Compatible with the GNU system. The short flags are an extension.