

**NAME**

hwloc-gather-cpuid – Dumps the relevant x86 cpuid values for later (possibly offline) usage

**SYNOPSIS**

**hwloc-gather-cpuid** [*options*] [<*outdir*>]

**OPTIONS**

**-c <idx>**

Only gather cpuid values for logical processor whose OS/physical index is <idx>.

**-s --silent**

Do not show verbose messages.

**--version**

Report version and exit.

**-h --help**

Display help message and exit.

**DESCRIPTION**

**hwloc-gather-cpuid** dumps all the relevant x86 cpuid values into subdirectory *cpuid* of current directory, or in <*outdir*> if specified.

These files can be used later to explore the machine topology offline, for instance by setting the environment variable *HWLOC\_CPUID\_PATH* to the directory containing all output files, and by forcing the x86 backend with *HWLOC\_COMPONENTS=x86,stop*.

The directory contents may also be submitted to hwloc developers to debug issues remotely.

If - is used as <*outdir*>, the output is dumped to the standard output, but a unique logical processor must have been given with -c.

**hwloc-gather-cpuid** is a x86 specific tool, it cannot be used on other platforms.

**NOTE:** **hwloc-gather-cpuid** gathers many hardware details about the platform. Output files should not be posted on public lists or websites unless it is clear that they contain no sensitive information.

**NOTE:** The output of **hwloc-gather-cpuid** is included in the tarball saved by **hwloc-gather-topology** on Linux/x86.

**NOTE:** It is highly recommended that you read the hwloc(7) overview page before reading this man page.

**EXAMPLES**

To store cpuid information of all logical processors of the current machine:

```
$ hwloc-gather-cpuid
Gathering in directory ./cpuid ...
Gathering CPUID of PU P#0 in path ./hwloc-x86-cpuid/pu0 ...
Gathering CPUID of PU P#1 in path ./hwloc-x86-cpuid/pu1 ...
Gathering CPUID of PU P#2 in path ./hwloc-x86-cpuid/pu2 ...
Gathering CPUID of PU P#3 in path ./hwloc-x86-cpuid/pu3 ...
Summary written to ./cpuid/hwloc-cpuid-info
```

**RETURN VALUE**

Upon successful execution, **hwloc-gather-cpuid** will exit with the code 0.

**hwloc-gather-cpuid** will return nonzero exit status if any kind of error occurs, such as (but not limited to) failure to create the output files.

**SEE ALSO**

hwloc(7), hwloc-gather-topology(1), lstopo(1)