

3 Discovery of CPUs and CPU cores

In a similar way as [file systems](#) are discovered, it is possible to also discover CPUs and CPU cores.

Item key

The item key to use in the [discovery rule](#) is

```
system.cpu.discovery
```

This item is supported since Zabbix agent 2.4.

Supported macros

This discovery key returns two macros - `{#CPU.NUMBER}` and `{#CPU.STATUS}` identifying the CPU order number and status respectively. Note that a clear distinction cannot be made between actual, physical processors, cores and hyperthreads. `{#CPU.STATUS}` on Linux, UNIX and BSD systems returns the status of the processor, which can be either “online” or “offline”. On Windows systems, this same macro may represent a third value - “unknown” - which indicates that a processor has been detected, but no information has been collected for it yet.

CPU discovery relies on the agent's collector process to remain consistent with the data provided by the collector and save resources on obtaining the data. This has the effect of this item key not working with the test (-t) command line flag of the agent binary, which will return a NOT_SUPPORTED status and an accompanying message indicating that the collector process has not been started.

Item prototypes that can be created based on CPU discovery include, for example:

- `system.cpu.util[{#CPU.NUMBER}, <type>, <mode>]`
- `system.hw.cpu[{#CPU.NUMBER}, <info>]`

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<https://www.zabbix.com/documentation/5.0/> - **Zabbix Documentation 5.0**

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