NAME

chcpu − configure CPUs

SYNOPSIS

chcpu −c|**−d**|**−e**|**−g** *cpu−list*

chcpu −p *mode*

chcpu −r|**−h**|**−V**

DESCRIPTION

chcpu can modify the state of CPUs. It can enable or disable CPUs, scan for new CPUs, change the CPU dispatching *mode* of the underlying hypervisor, and request CPUs from the hypervisor (configure) or return CPUs to the hypervisor (deconfigure).

Some options have a *cpu−list* argument. Use this argument to specify a comma−separated list of CPUs. The list can contain individual CPU addresses or ranges of addresses. For example, **0,5,7,9−11** makes the command applicable to the CPUs with the addresses 0, 5, 7, 9, 10, and 11.

OPTIONS

−c, **−−configure** *cpu−list*
: Configure the specified CPUs. Configuring a CPU means that the hypervisor takes a CPU from the CPU pool and assigns it to the virtual hardware on which your kernel runs.

−d, **−−disable** *cpu−list*
: Disable the specified CPUs. Disabling a CPU means that the kernel sets it offline.

−e, **−−enable** *cpu−list*
: Enable the specified CPUs. Enabling a CPU means that the kernel sets it online. A CPU must be configured, see **−c**, before it can be enabled.

−g, **−−deconfigure** *cpu−list*
: Deconfigure the specified CPUs. Deconfiguring a CPU means that the hypervisor removes the CPU from the virtual hardware on which the Linux instance runs and returns it to the CPU pool. A CPU must be offline, see **−d**, before it can be deconfigured.

−p, **−−dispatch** *mode*
: Set the CPU dispatching *mode* (polarization). This option has an effect only if your hardware architecture and hypervisor support CPU polarization. Available *modes* are:

  horizontal
  : The workload is spread across all available CPUs.

  vertical
  : The workload is concentrated on few CPUs.

−r, **−−rescan**
: Trigger a rescan of CPUs. After a rescan, the Linux kernel recognizes the new CPUs. Use this option on systems that do not automatically detect newly attached CPUs.

−h, **−−help**
: Display help text and exit.

−V, **−−version**
: Print version and exit.

EXIT STATUS

chcpu has the following exit status values:

0
success

1
failure

64
partial success

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SEE ALSO

lscpu(1)

REPORTING BUGS

For bug reports, use the issue tracker at https://github.com/util−linux/util−linux/issues.

AVAILABILITY

The **chcpu** command is part of the util−linux package which can be downloaded from Linux Kernel Archive <https://www.kernel.org/pub/linux/utils/util−linux/>.