

**NAME**

`chrt` - manipulate the real-time attributes of a process

**SYNOPSIS**

`chrt` [*options*] *prio command* [*arg*]...

`chrt` [*options*] **-p** [*prio*] *pid*

**DESCRIPTION**

`chrt` sets or retrieves the real-time scheduling attributes of an existing *pid*, or runs *command* with the given attributes. Both policy (one of **SCHED\_OTHER**, **SCHED\_FIFO**, **SCHED\_RR**, **SCHED\_BATCH**, or **SCHED\_IDLE**) and priority can be set and retrieved.

The **SCHED\_BATCH** policy is supported since Linux 2.6.16. The **SCHED\_IDLE** policy is supported since Linux 2.6.23.

The **SCHED\_RESET\_ON\_FORK** flag for policies **SCHED\_RR** and **SCHED\_FIFO** is supported since Linux 2.6.31.

**OPTIONS**

**-a, --all-tasks**

Set or retrieve the scheduling attributes of all the tasks (threads) for a given PID.

**-b, --batch**

Set scheduling policy to **SCHED\_BATCH** (Linux specific).

**-f, --fifo**

Set scheduling policy to **SCHED\_FIFO**.

**-i, --idle**

Set scheduling policy to **SCHED\_IDLE** (Linux specific).

**-m, --max**

Show minimum and maximum valid priorities, then exit.

**-o, --other**

Set policy scheduling policy to **SCHED\_OTHER**.

**-p, --pid**

Operate on an existing PID and do not launch a new task.

**-r, --rr**

Set scheduling policy to **SCHED\_RR**. When policy is not defined the **SCHED\_RR** is used as default.

**-R, --reset-on-fork**

Add **SCHED\_RESET\_ON\_FORK** flag to the **SCHED\_FIFO** or **SCHED\_RR** scheduling policy (Linux specific).

**-v, --verbose**

Show status information.

**-h, --help**

Display help text and exit.

**-V, --version**

Display version information and exit.

**USAGE**

The default behavior is to run a new command:

`chrt` *prio command* [*arguments*]

You can also retrieve the real-time attributes of an existing task:

`chrt -p` *pid*

Or set them:

`chrt -r -p` *prio pid*

**PERMISSIONS**

A user must possess `CAP_SYS_NICE` to change the scheduling attributes of a process. Any user can retrieve the scheduling information.

**NOTES**

Only `SCHED_FIFO`, `SCHED_OTHER` and `SCHED_RR` are part of POSIX 1003.1b Process Scheduling. The other scheduling attributes may be ignored on some systems.

Linux default scheduling policy is `SCHED_OTHER`.

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**SEE ALSO**

[taskset\(1\)](#), [nice\(1\)](#), [renice\(1\)](#)

See [sched\\_setscheduler\(2\)](#) for a description of the Linux scheduling scheme.

**AVAILABILITY**

The `chrt` command is part of the `util-linux` package and is available from <ftp://ftp.kernel.org/pub/linux/utils/util-linux/>.