

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**.

AUTHOR

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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/>.