

NAME

powertop – a power consumption and power management diagnosis tool.

SYNOPSIS

powertop [*options*]

DESCRIPTION

powertop is a program that helps to diagnose various issues with power consumption and power management. It also has an interactive mode allowing one to experiment with various power management settings. When invoking **powertop** without arguments **powertop** starts in interactive mode.

OPTIONS

--auto-tune

Set all tunable options to their good setting without interaction.

-c, --calibrate

Runs **powertop** in calibration mode. When running on battery, **powertop** can track power consumption as well as system activity. When there are enough measurements, **powertop** can start to report power estimates. One can get more accurate estimates by using this option to enable a calibration cycle. This will cycle through various display levels and USB device activities and workloads.

-C, --csv[=*filename*]

Generate a CSV report. If a *filename* is not specified then the default name **powertop.csv** is used. The CSV report can be used for reporting and data analysis.

--debug

Run in debug mode.

--extech=*devnode*

Use the Extech Power Analyzer for measurements. This allows one to specify the serial device node of the serial to USB adaptor connecting to the Extech Power Analyzer, for example */dev/ttyUSB0*.

-r, --html[=*filename*]

Generate an HTML report. If a *filename* is not specified then the default name **powertop.html** is used. The HTML report can be sent to others to help diagnose power issues.

-i, --iteration[=*iterations*]

Number of times to run each test.

-q, --quiet

Suppress stderr output.

-t, --time[=*seconds*]

Generate a report for a specified number of *seconds*.

-w, --workload[=*workload*]

Execute *workload* file as a part of calibration before making a report.

-V, --version

Print version information and exit.

-h, --help

Show the help message and exit.

COMMANDS

In interactive mode, the following key bindings are available:

Tab	Show next tab
BackTab	Show previous tab
Right Arrow	Scroll to the right
Left Arrow	Scroll to the left

Up Arrow, PageUp	Scroll up or select previous item
Down Arrow, PageDown	Scroll down or select next item
Space, Return	Activate current item
s	Set refresh timeout
r	Refresh window
q, Ctrl-C, Escape	Exit powertop

BUGS

Send bug reports to powertop@lists.01.org

SEE ALSO

The program is more fully described at <https://01.org/powertop>

AUTHOR

powertop was written by Arjan van de Ven arjan@linux.intel.com, and is currently maintained by Chris E Ferron chris.e.ferron@linux.intel.com.