

NAME

tlp – apply laptop power saving settings

SYNOPSIS

tlp *command* [*parameters*] [-- *CONFIG_PARAM=value ...*]

DESCRIPTION

tlp applies power saving settings manually and controls battery care features.

COMMANDS

- start** Initialize **tlp** and apply power saving settings according to the actual power source. Also use to apply a changed configuration or to leave manual mode.
- bat** Apply the battery settings profile and enter manual mode. Manual mode means that changes to the power source will be ignored until the next reboot or **tlp start** is issued to resume automatic mode.
- true** Same as **bat**.
- ac** Apply the AC settings profile and enter manual mode. Manual mode means that changes to the power source will be ignored until the next reboot or **tlp start** is issued to resume automatic mode.
- false** Same as **ac**.
- usb** Enable autosuspend for all USB devices except those excluded by default or in the configuration.
- bayoff** Turn off optical drive in UltraBay/MediaBay. The drive may be re-enabled by pulling the eject lever or pushing the media eject button on newer models.

Note: charge threshold and recalibration commands below work for specific laptop vendors and models only. Check the actual support status and the value ranges with **tlp-stat -b**. For details on charge thresholds also refer to the link at the bottom.

setcharge [*START_CHARGE_THRESH STOP_CHARGE_THRESH*] [**BAT0**|**BAT1**|**BATx**]**CMB0**]

Changes the charge thresholds for the battery temporarily. If your hardware supports only a stop threshold, set the start value to 0. Configured charge thresholds will be restored at the next boot or by using **tlp setcharge** again but without the threshold arguments.

fullcharge [**BAT0**|**BAT1**|**BATx**]**CMB0**]

Charge the battery to full capacity. This is done by applying vendor presets to the charge thresholds temporarily. Configured charge thresholds will be restored at the next boot or by using **tlp setcharge** without the threshold arguments.

chargeonce [**BAT0**|**BAT1**] (ThinkPads only)

Charge the battery to the stop charge threshold once. This is done by temporarily lifting the start charge threshold. The configured start charge threshold will be restored at the next boot or by using **tlp setcharge** without the threshold arguments.

discharge [**BAT0**|**BAT1**] (ThinkPads only)

Force complete discharge of the battery.

recalibrate [**BAT0**|**BAT1**] (ThinkPads only)

Battery recalibration: completely discharge the battery and recharge to 100%. The latter is done by temporarily applying vendor presets to the thresholds. Configured thresholds will be restored at the next boot or by using **tlp setcharge**.

diskid Show disk ids for configuration.

-- *CONFIG_PARAM=value ...*

Add configuration parameters to override the system configuration for this single program invocation only. They are not kept afterwards.

NOTES

For laptops with more than one battery the selection works as follows:

BAT0 – Main or internal battery

BAT1 – Secondary or replaceable battery

EXAMPLES

Change thresholds of the main battery to 70 / 90% temporarily:

```
tlp setcharge 70 90 BAT0
```

Charge the auxiliary battery to full capacity:

```
tlp fullcharge BAT1
```

Recalibrate the main battery:

```
tlp recalibrate BAT0
```

FILES

/etc/tlp.conf

System-wide user configuration file, uncomment parameters here to override default settings and customization files below.

/etc/tlp.d/.conf*

System-wide drop-in customization files, overriding defaults below.

/usr/share/tlp/defaults.conf

Intrinsic default settings. DO NOT EDIT this file, instead use one of the above alternatives.

/run/tlp/run.conf

Effective settings consolidated from all above files. DO NOT CHANGE this file, it is for reference only and regenerated on every invocation of TLP.

/etc/default/tlp

Obsolete system-wide configuration file. DO NOT USE this file, it is evaluated only when */etc/tlp.conf* is non-existent.

EXIT STATUS

On success, 0 is returned, a non-zero failure code otherwise.

SEE ALSO

tlp-stat(8), **bluetooth(1)**, **nfc(1)**, **wifi(1)**, **wwan(1)**.

[Project homepage](https://linrunner.de/tlp): `<https://linrunner.de/tlp>`

[Charge thresholds](https://linrunner.de/tlp/settings/battery.html): `<https://linrunner.de/tlp/settings/battery.html>`

AUTHOR

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