

Network UPS Tools User Manual

6.2.5 Check the UPS data

Status data

Make sure that the UPS is providing good status data.

```
/usr/local/ups/bin/upsc myupsname@localhost ups.status
```

You should see just one line in response:

```
OL
```

OL means your system is running on line power. If it says something else (like OB - on battery, or LB - low battery), your driver was probably misconfigured during the [Driver configuration](#) step. If you reconfigure the driver, use `upsdrcctl stop` to stop it, then start it again as shown in the [Starting driver\(s\)](#) step.

Reference: man page: [upsc\(8\)](#)

All data

Look at all of the status data which is being monitored.

```
/usr/local/ups/bin/upsc myupsname@localhost
```

What happens now depends on the kind of device and driver you have. In the list, you should see `ups.status` with the same value you got above. A sample run on a UPS (Eaton Ellipse MAX 1100) looks like this:

```
battery.charge: 100
battery.charge.low: 20
battery.runtime: 2525
battery.type: PbAc
device.mfr: EATON
device.model: Ellipse MAX 1100
device.serial: ADKK22008
device.type: ups
driver.name: usbhid-ups
driver.parameter.pollfreq: 30
driver.parameter.pollinterval: 2
driver.parameter.port: auto
driver.version: 2.4.1-1988:1990M
driver.version.data: MGE HID 1.12
driver.version.internal: 0.34
input.sensitivity: normal
input.transfer.boost.low: 185
input.transfer.high: 285
input.transfer.low: 165
input.transfer.trim.high: 265
input.voltage.extended: no
outlet.1.desc: PowerShare Outlet 1
outlet.1.id: 2
outlet.1.status: on
outlet.1.switchable: no
outlet.desc: Main Outlet
outlet.id: 1
outlet.switchable: no
output.frequency.nominal: 50
output.voltage: 230.0
output.voltage.nominal: 230
```

```
ups.beeper.status: enabled
ups.delay.shutdown: 20
ups.delay.start: 30
ups.firmware: 5102AH
ups.load: 0
ups.mfr: EATON
ups.model: Ellipse MAX 1100
ups.power.nominal: 1100
ups.productid: ffff
ups.serial: ADKK22008
ups.status: OL CHRG
ups.timer.shutdown: -1
ups.timer.start: -1
ups.vendorid: 0463
```

Reference: man page: [upsc\(8\)](#), [NUT command and variable naming scheme](#)

6.2.6 Startup scripts

Note

This step is not necessary if you installed from packages.

Edit your startup scripts, and make sure `upsdrvctl` and `upsd` are run every time your system starts.

6.3 Configuring automatic shutdowns for low battery events

The whole point of UPS software is to bring down the OS cleanly when you run out of battery power. Everything else is roughly eye candy.

To make sure your system shuts down properly, you will need to perform some additional configuration and run `upsmon`. Here are the basics.

6.3.1 Shutdown design

When your UPS batteries get low, the operating system needs to be brought down cleanly. Also, the UPS load should be turned off so that all devices that are attached to it are forcibly rebooted.

Here are the steps that occur when a critical power event happens:

1. The UPS goes on battery
2. The UPS reaches low battery (a "critical" UPS), that is to say `upsc` displays:

```
ups.status: OB LB
```

The exact behavior depends on the specific device, and is related to:

- `battery.charge` and `battery.charge.low`
 - `battery.runtime` and `battery.runtime.low`
3. The `upsmon` master notices and sets "FSD" - the "forced shutdown" flag to tell all slave systems that it will soon power down the load.
(If you have no slaves, skip to step 6)
 4. `upsmon` slave systems see "FSD" and: