

UPS & USB: íà äääèì ñèñòàíà óíàðàòü.

Ðàçääë : Ñèñòàíà. Äàìèèèñòðèðíààíèá

Îíóáèèèîââîî [Solnechnyi_z](#) [19/07/2009]

Â äàííé ñàòòüà ïèññóääàòñý ïðèâè ïäèèð÷àíèý ÈÁÍ ÷àðäç usb-ïðò, à òàé æà ðàðáíèá íàèíòüðü òðóáííòàé.

×àñòü I.

Äèý ñ÷àñòèèèâüð íàéääàòàèèé ÈÁÍ òèðü APC äíñòàòí÷íí ñèà÷àòü è óñòàííàòü ñèääóðùèá ïàèâòü:

<http://open-suse.ru/repo/opensuse11.1/i586/apcupsd-3.14.6-1.su111.i586.rpm>

<http://open-suse.ru/repo/opensuse11.1/i586/apcupsd-gapcmon-3.14.6-1.su111.i586.rpm>

<http://open-suse.ru/repo/opensuse11.1/i586/apcupsd-multimon-3.14.6-1.su111.i586.rpm>

Äèý íà÷àèà ïæíí ïíðíáíàòü GUI-óòèèèòó **gapcmon** (apcupsd-gapcmon-3.14.6-1.su111.i586.rpm):

Îñííââà íèí

Îèí ñ ïàðàíàòðàèè UPS

Óàì, ó èíâí ñòèèò ñèñòàííúé ïíèèòð **conky**, âíçíæíí ïðèâèèèèñý âòò ýòòò èííðèâ, íàèñíàíúé ïíé:

```
 ${apcupsd localhost 3551}UPS: ${color FFFFCB}${alignr}APC ${apcupsd_model}
```

```
 (${apcupsd_cable})${color}
```

```
 Status:${color FFFFCB}${alignr}${apcupsd_status}${color}
```

```
 Timeleft:${color FFFFCB}${alignr}${apcupsd_timeleft} min${color}
```

```
 Battery charge:${color FFFFCB}${alignr}${apcupsd_charge BAT1} %${color}
```

```
 Load:${color FFFFCB}${alignr}${apcupsd_load} %${color}
```

```
 ${apcupsd_loadbar 4}
```

Èñàíâü (âúïèíýðòñý ñ ïðàâàèè root):

apcupsd - çàíóñè äàííà

apcaccess - âúââè èíðíðíàòèè í èáí:

```
# apcaccess
```

```
APC : 001,038,1011
```

```
DATE : Sat Jul 18 23:26:54 OMSST 2009
```

```
HOSTNAME : home_SuSE_linux
```

```
VERSION : 3.14.6 (16 May 2009) suse
```

UPSNAME : home_SuSE_linux
CABLE : USB Cable
MODEL : Back-UPS ES 525
UPSMODE : Stand Alone
STARTTIME: Sat Jul 18 12:16:11 OMSST 2009
STATUS : ONLINE
LINEV : 231.0 Volts
LOADPCT : 43.0 Percent Load Capacity
BCHARGE : 100.0 Percent
TIMELEFT : 27.6 Minutes
MBATTCHG : 5 Percent
MINTIMEL : 3 Minutes
MAXTIME : 0 Seconds
SENSE : Medium
LOTRANS : 195.0 Volts
HITRANS : 255.0 Volts
ALARMDEL : Always
BATTV : 13.6 Volts
LASTXFER : Unacceptable line voltage changes
NUMXFERS : 1
XONBATT : Sat Jul 18 23:25:37 OMSST 2009
TONBATT : 0 seconds
CUMONBATT: 5 seconds
XOFFBATT : Sat Jul 18 23:25:42 OMSST 2009
SELFTTEST : NO
STATFLAG : 0x07000008 Status Flag
SERIALNO : 4B0829P10471
BATTDATE : 2008-07-18
NOMOUTV : 230 Volts
NOMINV : 230 Volts
NOMBATTV : 12.0 Volts
NOMPOWER : 300 Watts
FIRMWARE : 851.t3.I USB FW:t3
APCMODEL : Back-UPS ES 525
END APC : Sat Jul 18 23:26:56 OMSST 2009

apctest - òãñòèðíâàíèà ñèñòàìù:

```
# apctest
2009-07-19 05:36:22 apctest 3.14.6 (16 May 2009) suse
Checking configuration ...
Attached to driver: usb
sharenets.type = DISABLE
cable.type = USB_CABLE
```

You are using a USB cable type, so I'm entering USB test mode
mode.type = USB_UPS
Setting up the port ...
apctest FATAL ERROR in device.c at line 71
Unable to create UPS lock file.

If apcupsd or apctest is already running,
please stop it and run this program again.
apctest error termination completed

✖àñòü II.

Äëý òãõ, ó êíãí èìáðõñý íáëìòíðùá ïðíáëáíü ñ ïíäëëþ÷áíëáì ÈÁÍ.

1. Äëý íà÷àëà ñëà÷èáááì èñõíáííüá êíäü ïðíáðáííü è óñòàíááëëáááì áá á ñëñòáíó, íë÷ááí íáíáí÷ííáí íá ýõí ðááá íáð, ïýõíó áüííëíýðõñý íáí÷íüá ïðíáááóðù:

```
wget http://eu1.networkupstools.org/source/2.2/nut-2.2.1.tar.gz  
tar -xvzf ./nut-2.2.1.tar.gz  
cd ./nut-2.2.1.tar.gz  
./configure && make && make install
```

Íñëá óñòáííáëë ïýäëýðõñý ñëááóðùëá èàòàëíáë (/usr/local/ups/):

bin - èàòàëíá ñ äðáéááðáìë ïíá ïðááááëáííüá ïíááëë UPS'íá
etc - òáëëü êííòëáóðáòëë ááíííá, íáñòðíéëë ïíäëëþ÷áíëý è ups
sbin - ñëñòáííüá ááííí, ááííí ïíëòíðëíáá, è áüá
html, cgi-bin, include, lib è share - á íëð íë÷ááí ïðááëòü íá ïðëááòñý, òáë ÷òí èõ ïíëñüááòü íá íáçàòáëüíí

2. Äëý íà÷àëà, èòí ááëááò ýòí áíáðáüá, íóæíí ïðááááëëòüñý ñ UPS, ïíäëëþ÷áí èë íí, áëáëò èë ááí ýáðí. áíñííëüçóáíñý óòëëëòíé èç ïàëáòà usbutils:

lsusb

áüáíá ïíëáæáò, èáëëá usb-óñòðíéñòáá áñòü á ñëñòáíá, áñëë áü ááí íá áëëëòá.

3. Ááëáá á èàòàëíáá ñ èñõíáííüè êíäüáìë, áñòü ïíáëáòàëíá data, á íáí áñòü ñíëñíë ïíáááðæéáááííá íáíðóáííáíëý - **driver.list**, òàí ïíæíí íáëòë ïíáááðæéáááòñý èë áàø UPS è èáëíé äðáéááð ïíáííáëò äëý íááí.

Òáíáðü êíááá ïðááááëëëëñü ñ ïíááëþp ups è äðáéááðíí, ïíæíí ïðëñòóíáòü è íáñòðíéëá êííòëáíá.

Ðáááëòëðóáí /usr/local/ups/etc/ups.conf

```
user = nobody  
[usbhid]  
driver = usbhid-ups  
port = /dev/hiddev0
```

Á íáíáí, ñòðíéá **user** ïíëáçüáááò íò êíáí áóááò çáíóñëáòüñý äðáéááð, ïí çáíóñëááòñý ñ ïðáááìë nobody è ïýõíó á íà÷àëá íá ïíæáò ïíëó÷èòü áíñòóíá è íáëíòíðüí ðáñòðñáí (á èàòàëíáá /dev/, íá ïíæáò ñíçááòü .pid è

Íðeíá-áíeá: çàíóñòèèèñú èè ïðíóáññú ïíæíí ïðíááðèòù -áðáç ps, ñéááópùèì
íáðàçíí: **ps ax | grep ups**
ups/sbin/upsmon

Òàèæá ïðíááðèòù, èàè ïñòàíáèèèááòñý ñèñòàíà ïíæíí, ñéàçàâ upsd, ÷òí UPS
ïíéó÷èè ñéáíáé áúèèþ÷áíèý ïèòàíèý:
upsmon -c fsd

P.S. Á ñòàòùá èñïíéúçíááíú ìàòáðèàéú ñ ñàéòà <http://www.opennet.ru/>.