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Printanje u BeÄ u

BeÄ = batch (eng.) - u jednom cugu, za razliku od po potrebi

Napisati postojeÄ u proceduru printanja kartica (pokretanje skripte)

NaruÄ ivanje praznih kartica

Paziti da zadnja strana bude bijela, jer i tako moramo printati dvostrano, pa nam to daje veÄ u fleksibilnost.

Plan

- Ä itaÄ postaviti ispod printer-a tako da programirana kartica padne na Ä itaÄ i isprogramira se (moÄ¼da malo alu-folije ako Ä itaÄ bude hvatao kartice iz spremnika)
- Linux stroj sa podrÄ¼kom za pritanje kartica i barkoda na njima koji podatke sprema nazad direktno u Kohu

Workflow

- link sa intranet-a na lokalnu maÄ¼inu (linux stroj) gdje se pokreÄ e pitanje na printer (moÄ¼da lokalno spojen, moÄ¼da mreÄ¼om)
- kartica pada na Ä itaÄ koji je programira i Ä¼lje podatak u kohu sa postom na neki ssl cgi (moÄ¼da sa svojim certifikatima?)

CUPS driver

[Evolis Dualys 3 Smart](#)

- <http://github.com/dpavlin/Printer-EVOLIS>
- <http://www.evolis.com/eng/Drivers-Support/Product-support/Dualys-3>
- <http://git.rot13.org/?p=evolispriinter.git>

Contents: [Dobrica PavlinuÄ¼iÄ 's random unstructured stuff]

- [Dobrica PavlinuÄ¼iÄ 's random unstructured stuff \(Tehcnical test card:\)](#)
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Use the internal font and rotate them

```

Wcb ;k // Clear Monochrome Panel
Ss // Sequence Start
Pwr ;0 // Set the text orientation to 0
Wt ;100 ;300 ;0 ;10 ;Test rotations // Write the Text "Test Rotation"
Wt ;500 ;250 ;0 ;50 ;0 // Write the text "0"
Pwr;90 // Set the Text orientation to zero
Wt ;500 ;250 ;0 ;50 ;90 // Write the text "90"
Pwr;180 // Set the Text orientation to 180
Wt ;500 ;250 ;0 ;50 ;180 // Write the text "180"
Pwr;270 // Set the Text orientation to 270
Wt ;500 ;250 ;0 ;50 ;270 // // Write the text "270"
Se // Sequence eject

```

Print in an image in color

```

Pr;ymcko // Parameter ribbon ymcko
Pc;a;=;10 // Set the contrast to 10 for all panel
Pl;a;=;10 // Set the luminosity to 10 for all panel
Ps;k;=;0 // Set the Speed for black panel to 0
Ss // Sequence start
Db;y;32;xxxxxxxxxxxxxxxxxxx // Download the data for yellow pannel
Db;m;32;xxxxxxxxxxxxxxxxxxx // Download the data for magenta panel
Db;c;32;xxxxxxxxxxxxxxxxxxx // Download the data for cyan panel
Db;o;32;xxxxxxxxxxxxxxxxxxx // Download the data for overlay panel
Se

```

Network administration

| Escape sequence | Syntax | Arguments |
|-------------------------------|------------|---|
| Read the printer's IP address | Rip | IP address in xxx.yyy.ttt.uuu format or dhcp |
| Set the IP address or DHCP | Rip;value | IP address in xxx.yyy.ttt.uuu format or dhcp |
| Read Hostname | Rehn | Hostname (16 characters max.) |
| Set Hostname | Pehn;value | Hostname (16 characters max.) |
| Read Subnet mask | Renm | Subnet mask in xxx.yyy.ttt.uuu format |
| Set Subnet mask | Penm;value | Subnet mask in xxx.yyy.ttt.uuu format |
| Read the gateway address | Regw | Gateway address in xxx.yyy.ttt.uuu format |
| Set the gateway address | Pegw;value | Gateway address in xxx.yyy.ttt.uuu format |
| Read the WINS server address | Rews | WINS server address in xxx.yyy.ttt.uuu format |
| Read the WINS server address | Pews;value | WINS server address in xxx.yyy.ttt.uuu format |

Debian

- <http://debian.rot13.org/binary/>
- <http://debian.rot13.org/source/>

apt-cache show evolisprinter

```
Package: evolisprinter
Status: install ok installed
Priority: extra
Section: checkinstall
Installed-Size: 160
Maintainer: root@klin
Architecture: i386
Version: 3.0-2
Provides: evolisprinter
Depends: cups
Description: New Pebble Card Printer CUPS driver
```

Compilation

```
apt-get install libcups2-dev libcupsimage2-dev
make
sudo checkinstall
```

dmesg

```
[88415.288187] usb 2-4.3: new full speed USB device using ehci_hcd and address 10
[88415.381054] usb 2-4.3: New USB device found, idVendor=058f, idProduct=9254
[88415.381058] usb 2-4.3: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[88415.381061] usb 2-4.3: Product: Generic USB Hub
[88415.381063] usb 2-4.3: Manufacturer: ALCOR
[88415.381149] usb 2-4.3: configuration #1 chosen from 1 choice
[88415.381333] hub 2-4.3:1.0: USB hub found
[88415.381555] hub 2-4.3:1.0: 4 ports detected
[88415.652178] usb 2-4.3.1: new full speed USB device using ehci_hcd and address 11
[88415.745545] usb 2-4.3.1: New USB device found, idVendor=0f49, idProduct=0400
[88415.745549] usb 2-4.3.1: New USB device strings: Mfr=4, Product=18, SerialNumber=0
[88415.745552] usb 2-4.3.1: Product: Evolis Dualys
[88415.745554] usb 2-4.3.1: Manufacturer: EVOLIS
[88415.745639] usb 2-4.3.1: configuration #1 chosen from 1 choice
[88415.747080] usbblp0: USB Bidirectional printer dev 11 if 0 alt 0 proto 2 vid 0x0F49 pid 0x0400

[90082.139083] rastertoevol[8692]: segfault at 0 ip b7ddf657 sp bfd60bc8 error 6 in libc-2.9.so
[90122.522505] usb 2-4.3.1: USB disconnect, address 11
[90122.522690] usbblp0: removed
[90133.216207] usb 2-4.3.1: new full speed USB device using ehci_hcd and address 13
[90133.309579] usb 2-4.3.1: New USB device found, idVendor=0f49, idProduct=0400
[90133.309582] usb 2-4.3.1: New USB device strings: Mfr=4, Product=18, SerialNumber=0
[90133.309585] usb 2-4.3.1: Product: Evolis Dualys
[90133.309587] usb 2-4.3.1: Manufacturer: EVOLIS
[90133.309676] usb 2-4.3.1: configuration #1 chosen from 1 choice
[90133.311236] usbblp0: USB Bidirectional printer dev 13 if 0 alt 0 proto 2 vid 0x0F49 pid 0x0400
[94350.140355] gs[27363]: segfault at 197 ip b79fb9a6 sp bf9bf070 error 6 in libgs.so.8.70[b790d0]
[94393.919251] gs[27502]: segfault at 197 ip b79be9a6 sp bfefe230 error 6 in libgs.so.8.70[b78d00]
[94459.139970] gs[27726]: segfault at 197 ip b78459a6 sp bfdbc90 error 6 in libgs.so.8.70[b77570]
```

lsusb

Bus 002 Device 013: ID 0f49:0400

Device Descriptor:

```
bLength          18
bDescriptorType  1
bcdUSB           1.00
bDeviceClass     0 (Defined at Interface level)
bDeviceSubClass  0
bDeviceProtocol  0
bMaxPacketSize0 8
idVendor         0x0f49
idProduct        0x0400
bcdDevice        6.02
iManufacturer    4 EVOLIS
iProduct         18 Evolis Dualys
iSerial          0
bNumConfigurations 1
```

Configuration Descriptor:

```
bLength          9
bDescriptorType  2
wTotalLength     32
bNumInterfaces   1
bConfigurationValue 1
iConfiguration   52 Standard Configuration
bmAttributes     0x40
                (Missing must-be-set bit!)
                Self Powered
MaxPower         0mA
```

Interface Descriptor:

```
bLength          9
bDescriptorType  4
bInterfaceNumber 0
bAlternateSetting 0
bNumEndpoints    2
bInterfaceClass  7 Printer
bInterfaceSubClass 1 Printer
bInterfaceProtocol 2 Bidirectional
iInterface       98 Printer Interface
```

Endpoint Descriptor:

```
bLength          7
bDescriptorType  5
bEndpointAddress 0x81 EP 1 IN
bmAttributes     2
                Transfer Type      Bulk
                Synch Type         None
                Usage Type         Data
wMaxPacketSize   0x0040 1x 64 bytes
bInterval        0
```

Endpoint Descriptor:

```
bLength          7
bDescriptorType  5
bEndpointAddress 0x02 EP 2 OUT
bmAttributes     2
                Transfer Type      Bulk
                Synch Type         None
                Usage Type         Data
wMaxPacketSize   0x0040 1x 64 bytes
bInterval        0
```

Device Status: 0x0001

Self Powered

CUPS

printer options

```
dpavlin@klin:~$ lpoptions -p EVOLIS_Dualys -l
ColorModel/Output Mode: *RGB
PageSize/Media Size: *Card
Collate/Collate: *True False
MediaType/Media Type: *Blank
InkType/Ink Type: YMCKO YMCKOS YMCKOK KO *Black Blue Gold Green Red Silver White Scratch BlackWax
Duplex/Two-sided Printing: None *DuplexNoTumble
Brightness/Luminosity: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
Contrast/Contrast: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
BlackIn/Black Panel : *N Y
TreatementK/Effect: *G L
SensibilityK/Intensity black panel: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
OverlayPannel/Define : *FO SCI SCA MS NO
SensibilityO/Intensity overlay panel: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
BrightnessV/Luminosity: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
ContrastV/Contrast: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
BlackInV/Black Back Panel : *N Y
TreatementKV/Effect: *G L
SensibilityKV/Intensity black panel: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
OverlayBackPannel/Define : FO SCI SCA MS NO
SensibilityOV/Intensity Overlay Back Panel: 0 1 2 3 4 5 6 7 8 9 *10 11 12 13 14 15 16 17 18 19 20
EjectCard/Specific Action : *None iSmart iCtless Eject Reject Test TestTech Clean
Coercivity/Coercivity: *None Hico Loco JIS
Track1/Track1 : *1 2 3 4 5 8 6 7
Track2/Track2 : 1 *2 3 4 5 8 6 7
Track3/Track3 : 1 2 *3 4 5 8 6 7
```

duplex printing

```
dpavlin@klin:~$ lpoptions -p EVOLIS_Dualys -l | grep Duplex
Duplex/Two-sided Printing: None *DuplexNoTumble
```

```
dpavlin@klin:~/klin/evolix-dualys-3$ lpr -Pduplex3 -o Duplex=DuplexNoTumble out/200900000042.pri
```

cups raster

- <http://www.easysw.com/~mike/rasterview/index.html>

```
sudo apt-get install libfltk1.1-dev libcups2-dev libcupsimage2-dev
```

gs cups rasterizator

```
/usr/bin/gs -dQUIET -dPARANOIDSAFER -dNOPAUSE -dBATCH -sDEVICE=cups -sstdout=%stderr -sOutputFile
```

evolis rasterizator

```
/usr/lib/cups/filter/rastertoevolvis 42 dpavlin foobar 0 Duplex=DuplexNoTumble duplex.ras > foo.ev
```