

Re: HP Deskjet D1420 detected by Freebsd, but not CUPS

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2007-07/msg00114.html>

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 - *Date:* Sat, 14 Jul 2007 00:55:18 +1000
-

On Thu, 12 Jul 2007 17:57:04 -0400

John Walthall <jzw@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

Hullo,

I have a brand-new Hp Deskjet d1420 which is perfectly detected by FreeBSD:

~ % usbdevs

addr 1: UHCI root hub, VIA

addr 2: Deskjet D1400 series, HP

addr 1: UHCI root hub, VIA

addr 1: UHCI root hub, VIA

addr 1: EHCI root hub, VIA

— and —

~ % dmesg | grep ugen0

ugen0: HP Deskjet D1400 series, rev 2.00/1.00,

addr 2

I installed print/hplip and print/cups

I followed the directions at <http://am-productions.biz/docs/hplip.php> exactly, but when I try to run hp-setup, I get this:

error: No devices found. Please make sure your printer is properly connected and powered-on

So, I tried using CUPS own web-interface, no luck, it doesn't even list USB as an option, KDE's "kprinter" interface does, but it's greyed out. I tried the "find manually" function in hp-setup, but was instructed to use the command lsusb, which doesn't seem to exist; I suspect lsusb is a Linux specific command, and, indeed, the portions of HPLIP's web-site dealing with this aspect make clear references to Linux's method of handling USB device notes.

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I am at my wits end. I have tried everything I could think of, to no avail. Thanks in advance.

hmm these linuxisms do get a bit tiring dont they?

i did a very quick search through print/cups-base , and i found no reference to lusb.

backend/usb-unix.c. is of relevance, methinks it seems to need /dev/ulpt ... do you ulpt.ko loaded? and the printer detected ?

B

PS Anyway...in case the above info was useless, hopefully this helps – i havent got USB printers @ hand (other than a canon that i'm not 100% sure it works)...

maybe you can figure out what info cups is looking for with lsubs and write a wrapper for it using BSD tools?

```
# uname -a
```

```
Linux cerberus.xxxx. 2.6.18-8.1.4.el5.centos.plus #1 SMP Sun May 20 10:53:21 EDT 2007 x86_64 x86_64 x86_64 GNU/Linux
```

```
# lsusb | less
```

```
Bus 002 Device 001: ID 0000:0000
```

```
Bus 001 Device 002: ID 045e:0040 Microsoft Corp. Wheel Mouse Optical
```

```
Bus 001 Device 001: ID 0000:0000
```

```
# lsusb -v | less
```

```
Bus 002 Device 001: ID 0000:0000
```

```
Device Descriptor:
```

```
bLength 18
```

```
bDescriptorType 1
```

```
bcdUSB 2.00
```

```
bDeviceClass 9 Hub
```

```
bDeviceSubClass 0 Unused
```

```
bDeviceProtocol 1 Single TT
```

```
bMaxPacketSize0 64
```

```
idVendor 0x0000
```

```
idProduct 0x0000
```

```
bcdDevice 2.06
```

```
iManufacturer 3 Linux 2.6.18-8.1.4.el5.centos.plus ehci_hcd
```

```
iProduct 2 EHCI Host Controller
```

```
iSerial 1 0000:00:02.1
```

```
bNumConfigurations 1
```

```
Configuration Descriptor:
```

```
bLength 9
```

```
bDescriptorType 2
```

```
wTotalLength 25
```

```
bNumInterfaces 1
```

```
bConfigurationValue 1
```

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iConfiguration 0
bmAttributes 0xe0
Self Powered
Remote Wakeup
MaxPower 0mA
Interface Descriptor:
bLength 9
bDescriptorType 4
bInterfaceNumber 0
bAlternateSetting 0
bNumEndpoints 1
bInterfaceClass 9 Hub
bInterfaceSubClass 0 Unused
bInterfaceProtocol 0 Full speed (or root) hub
iInterface 0
Endpoint Descriptor:
bLength 7
bDescriptorType 5
bEndpointAddress 0x81 EP 1 IN
bmAttributes 3
Transfer Type Interrupt
Synch Type None
Usage Type Data
wMaxPacketSize 0x0002 1x 2 bytes
bInterval 12
Hub Descriptor:
bLength 11
bDescriptorType 41
nNbrPorts 10
wHubCharacteristic 0x000a
No power switching (usb 1.0)
Per-port overcurrent protection
TT think time 8 FS bits
bPwrOn2PwrGood 10 * 2 milli seconds
bHubContrCurrent 0 milli Ampere
DeviceRemovable 0x00 0x60
PortPwrCtrlMask 0x87 0x14
Hub Port Status:
Port 1: 0000.0100 power
Port 2: 0000.0100 power
Port 3: 0000.0000
Port 4: 0000.0100 power
Port 5: 0000.0100 power
Port 6: 0000.0100 power
Port 7: 0000.0100 power
Port 8: 0000.0100 power
Port 9: 0000.0100 power
Port 10: 0000.0100 power

Bus 001 Device 002: ID 045e:0040 Microsoft Corp. Wheel Mouse Optical
Device Descriptor:

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bLength 18
bDescriptorType 1
bcdUSB 1.10
bDeviceClass 0 (Defined at Interface level)
bDeviceSubClass 0
bDeviceProtocol 0
bMaxPacketSize0 8
idVendor 0x045e Microsoft Corp.
idProduct 0x0040 Wheel Mouse Optical
bcdDevice 3.00
iManufacturer 1 Microsoft
iProduct 3 Microsoft 3-Button Mouse with IntelliEye(TM)
iSerial 0
bNumConfigurations 1
Configuration Descriptor:
bLength 9
bDescriptorType 2
wTotalLength 34
bNumInterfaces 1
bConfigurationValue 1
iConfiguration 0
bmAttributes 0xa0
Remote Wakeup
MaxPower 100mA
Interface Descriptor:
bLength 9
bDescriptorType 4
bInterfaceNumber 0
bAlternateSetting 0
bNumEndpoints 1
bInterfaceClass 3 Human Interface Devices
bInterfaceSubClass 1 Boot Interface Subclass
bInterfaceProtocol 2 Mouse
iInterface 0
HID Device Descriptor:
bLength 9
bDescriptorType 33
bcdHID 1.10
bCountryCode 0 Not supported
bNumDescriptors 1
bDescriptorType 34 Report
wDescriptorLength 72
Report Descriptors:
** UNAVAILABLE **
Endpoint Descriptor:
bLength 7
bDescriptorType 5
bEndpointAddress 0x81 EP 1 IN
bmAttributes 3
Transfer Type Interrupt
Synch Type None

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Usage Type Data

wMaxPacketSize 0x0004 1x 4 bytes

bInterval 10

Bus 001 Device 001: ID 0000:0000

Device Descriptor:

bLength 18

bDescriptorType 1

bcdUSB 1.10

bDeviceClass 9 Hub

bDeviceSubClass 0 Unused

bDeviceProtocol 0 Full speed (or root) hub

bMaxPacketSize0 64

idVendor 0x0000

idProduct 0x0000

bcdDevice 2.06

iManufacturer 3 Linux 2.6.18-8.1.4.el5.centos.plus ohci_hcd

iProduct 2 OHCI Host Controller

iSerial 1 0000:00:02.0

bNumConfigurations 1

Configuration Descriptor:

bLength 9

bDescriptorType 2

wTotalLength 25

bNumInterfaces 1

bConfigurationValue 1

iConfiguration 0

bmAttributes 0xe0

Self Powered

Remote Wakeup

MaxPower 0mA

Interface Descriptor:

bLength 9

bDescriptorType 4

bInterfaceNumber 0

bAlternateSetting 0

bNumEndpoints 1

bInterfaceClass 9 Hub

bInterfaceSubClass 0 Unused

bInterfaceProtocol 0 Full speed (or root) hub

iInterface 0

Endpoint Descriptor:

bLength 7

bDescriptorType 5

bEndpointAddress 0x81 EP 1 IN

bmAttributes 3

Transfer Type Interrupt

Synch Type None

Usage Type Data

wMaxPacketSize 0x0002 1x 2 bytes

bInterval 255

Re: HP Deskjet D1420 detected by Freebsd, but not CUPS

Hub Descriptor:
bLength 11
bDescriptorType 41
nNbrPorts 10
wHubCharacteristic 0x0002
No power switching (usb 1.0)
Ganged overcurrent protection
bPwrOn2PwrGood 1 * 2 milli seconds
bHubContrCurrent 0 milli Ampere
DeviceRemovable 0x00 0x60
PortPwrCtrlMask 0x87 0x14
Hub Port Status:
Port 1: 0000.0100 power
Port 2: 0000.0100 power
Port 3: 0000.0303 lowspeed power enable connect
Port 4: 0000.0100 power
Port 5: 0000.0100 power
Port 6: 0000.0100 power
Port 7: 0000.0100 power
Port 8: 0000.0100 power
Port 9: 0000.0100 power
Port 10: 0000.0100 power

{Beto|Norberto|Numard} Meijome

"I was born not knowing and have had only a little time to change that here and there."
Richard Feynman

I speak for myself, not my employer. Contents may be hot. Slippery when wet. Reading disclaimers makes you go blind. Writing them is worse. You have been Warned.

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