

I used `yum` to install `xine-libs`, which in turn installs `xine` as a dependency. Once installed, I tested it with an `mpeg` and it worked fine.

Unpursued Issues

Modem

Personally, I have not used a dial-up modem since 1999. Further, I have never set one up in *Fedora*. As such, the modem remains untested.

DVD Video Playback

I had DVD video playback working under FC3, but did not attempt to get it working under FC4. It worked fine under FC3 using *Ogle*, but I never got it working well with *xine* (my preferred DVD player).

In order to make this work under FC3, I needed to add the following to `/etc/X11/xorg.conf` in the *Device* section for *Videocard0*:

```
Option "OverlayMem" "829440"
```

Contact Information

I welcome questions, comments, suggestions, etc. regarding *Fedora Core 4* on the *IBM Thinkpad 600E*, or FC4 in general.

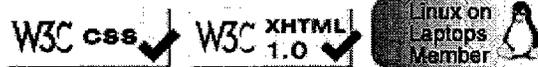
- `nlippinc (at) cedarcrest (dot) edu`
- `http://www2.cedarcrest.edu/academic/csc/nlippincott/`

Resources

Special thanks to the following which contributed greatly to the success of this project:

- The Official Fedora Web site.
- Craig's HowTo for Revision 2: the Belkin F5D6020 and D-Link DWL-650 posted at House of Craig.
- Mark Alford's Fedora/RedHat GNU/Linux page, for IBM Thinkpads by Prof. Mark Alford, Washington University in St. Louis.
- A forum posting at Red Hat, Inc.
- Many others Googled and, unfortunately, forgotten.

Page content copyright © 2005, Norman Lippincott Jr, Saylorsburg PA USA, All Rights Reserved
Linux on Laptops copyright © 2005, linux-on-laptops.com, Privacy Statement
Contact us at `linuxonlaptops (at) yahoo (dot) com`
Advertise on `linux-on-laptops.com`



No Warranties: This information is provided "as is" without any warranty, condition, or representation of any kind, either express or implied, including but not limited to, any warranty respecting non-infringement, and the implied warranties of conditions of merchantability and fitness for a particular purpose. All logos or trademarks on this site are the property of their respective owner. In no event shall `linux-laptop.net`, `linux-on-laptops.com`, or any directors, trustees, associates, or employees thereof be liable for any direct, indirect, special, incidental, consequential or other damages howsoever caused whether arising in contract, tort, or otherwise, arising out of or in connection with the use or performance of the information contained on this web site.

Module Version: 1.48 [Source](#)

Download: [Apache-LoggedAuthDBI-0.12.tar.gz](#)

[Annotate this POD](#)

NAME
SYNOPSIS
 GETTING HELP
 NOTES
DESCRIPTION
 Architecture of a DBI Application
 Notation and Conventions
 Outline Usage
 General Interface Rules & Caveats
 Naming Conventions and Name Space
 SQL - A Query Language
 Placeholders and Bind Values
THE DBI PACKAGE AND CLASS
 DBI Constants
 DBI Class Methods
 DBI Utility Functions
 DBI Dynamic Attributes
METHODS COMMON TO ALL HANDLES
ATTRIBUTES COMMON TO ALL HANDLES
DBI DATABASE HANDLE OBJECTS
 Database Handle Methods
 Database Handle Attributes
DBI STATEMENT HANDLE OBJECTS
 Statement Handle Methods
 Statement Handle Attributes
OTHER METHODS
FURTHER INFORMATION
 Catalog Methods
 Transactions
 Handling BLOB / LONG / Memo Fields
 Simple Examples
 Threads and Thread Safety
 Signal Handling and Canceling Operations
 Subclassing the DBI
TRACING
 Trace Settings
 Trace Levels
 Trace Flags
 Enabling Trace
 Trace Output
 Tracing Tips
DBI ENVIRONMENT VARIABLES
 DBI_DSN
 DBI_DRIVER
 DBI_AUTOPROXY
 DBI_USER
 DBI_PASS
 DBI_DBNAME (obsolete)
 DBI_TRACE
 PERL_DBI_DEBUG (obsolete)
 DBI_PROFILE
 DBI_PUREPERL
WARNING AND ERROR MESSAGES
 Fatal Errors
Pure-Perl DBI
SEE ALSO
 Driver and Database Documentation
 ODBC and SQL/CLI Standards Reference Information
 Standards Reference Information
 Books and Articles
 Perl Modules
 Mailing List
 Assorted Related WWW Links

~~1316 613~~

~~1301 613 178~~

1612

613

516 306 5375
doepl
BetL



Atmel Firmware (PCMINI Card) Network Setup

I spent a good bit of time researching this for FC1 and for FC3. My FC3 setup worked fine under FC4, so there was not a lot of research needed this time around.

The issue is that the Atmel firmware needs to be loaded at system startup, and the firmware is not included in the FC4 distribution (probably due to licensing issues, but I'm not sure). The firmware can be installed from package *atmel-firmware*. The RPM I used was *atmel-firmware-1.1-1.i386.rpm*. I had saved this RPM from my FC3 installation, but could not find this specific version on a recent search. Version 1.0 can be found for download via Google as of this writing, but I have not tried it.

Install the RPM and you get the firmware and a program to load the firmware. I was able to start the network by doing the following:

```
atmel_fw1 eth0 /usr/lib/hotplug/firmware/atmel_at76c502d.bin
ifup eth0
```

In order to make this happen *every time* the system is started, add the following line to the end of */etc/sysconfig/network-scripts/ifcfg-eth0*:

```
/usr/sbin/atmel_fw1 eth0 /usr/lib/hotplug/firmware/atmel_at76c502d.bin
```

System Updates

Once the network was running, I wanted to apply all available system updates. I am very good about keeping my operating systems software up to date, and I typically look to update my systems as soon as possible after installation. I keep my *Fedora* systems updated with *yum*, using this command:

```
yum update
```

This will take some time. It took about an hour on my system.

Sound Setup

Getting sound to work on this unit was the most difficult and research intensive part of the installation. FC4's sound card detection does not recognize the Crystal controller built into this unit (nor did FC3's detection). To make matters worse, none of the configurations I had used for previous *Fedora* versions worked either.

After considerable searching I hit upon the right configuration. Add the following lines to */etc/modprobe.conf*:

```
options snd-cs4236 isapnp=0 cport=0x538 port=0x530 sb_port=0x220 fm_port=0x388 irq=5 dma1=1 dma2=0
alias snd-card-0 snd-cs4236
```

You can test this immediately by doing:

```
modprobe snd-cs4236
```

I tested my configuration by running *Applications / Internet / IM* (which runs *gaim*). I set up my AOL-IM account, and sent a message to myself. *gaim*, in this case, gives two audible cues; one for the outgoing message and one for the incoming message.

If that works, try rebooting the system to make sure the sound system comes up. In my case it worked fine.

FC3 Sound Setup

The configuration, in */etc/modprobe.conf*, I had used under FC3 is as follows:

```
alias char-major-116 snd
alias char-major-14 soundcore
alias sound-service-0-0 snd-mixer-oss
alias sound-service-0-1 snd-seq-oss
alias sound-service-0-3 snd-pcm-oss
alias sound-service-0-8 snd-seq-oss
alias sound-service-0-12 snd-pcm-oss
alias snd-card-0 snd-cs4232
alias sound-slot-0 snd-cs4232
options snd-cs4232 port=0x530 cport=0x538 isapnp=0 dma1=1 dma2=0 irq=5
```

This did *not* work under FC4. I am, by no means, an expert in Linux sound architecture, and I really don't know how all this ties together. But the two-line configuration that worked for FC4 is, to me, much more straightforward and understandable. Simpler is better, I suppose. I don't know if the two-line version would have worked for FC3.

Extra Software

As part of the installation, FC4 configures the *Fedora Extras* repository, which gives you access to additional software.

I also configured the *Livna* repository so that I could install *xmms* with MP3 playback. Installing this was the final test for my sound setup. Configuration information for the *Livna* repository can be found on the *Livna Configuration Page*. This is easier than ever under FC4. Just download and install the RPM and the repository is fully configured.

DYER & ASSOCIATES, P.C.
10415 ARMORY AVENUE
KENSINGTON, MD 20895
301-654-6200
FAX 301-692-1990

- To make a call internally – hit intercom, *, then dial the extension
- To transfer a call – hit transfer, *, then dial the extension
- To put a call into voicemail – hit feature 14, then dial the extension

COURIER AMERICA 301-654-5210
DATAWATCH 301-654-3282
MJM GRAPHICS 301-296-8940
P.J. & CO 301-621-3113

<u>EMPLOYEE</u>	<u>EXT.</u>
Basement/File Room	15
Conference Room (1 st floor)	47
Kitchen	20
Mail/Work Room	17
Server Room	39
Chambers, Tamala	29
Charre, Leo	25
Cogliandolo, Roy	37
Davies, Tineka	19
D'Costa, Juanita	23
Donovan, Bill	13
Dyer, Gregg	24
Dyer, Michael 301-692-1988 will go to voicemail after 4 rings	11
Erfani, Parisa	55
Farrow, Samantha	10

<u>EMPLOYEE</u>	<u>EXT.</u>
Geimer, Maureen	14
Gibbons, Christie	22
Groft, Mike	12
Hamilton, Charles	31
Harris, Quiana	26
Huicy, Andrea	46
Odutoye, Angela	56
Rascher, Chris	48
Smith-Terrell, Vanessa	36
Tafazzoli, Ladan	33
Clark, Rob (PointRoll)	34
Weinstein, Alyson (PointRoll)	54
O'Connell, Susan (VYC)	35
Whalen, Brian	32
Whalen, Matt	41
Whalen, Michael	51
Whalen, Tom	27