



MUUGlines

The Manitoba UNIX User Group Newsletter

Next Meeting: March 8th, 2005: MythTV

Shawn Wallbridge will be presenting on MythTV. MythTV turns your PC running Linux into a Tivo-like Personal Video Recorder.

Shawn will explain how MythTV works, and some of the features it provides.

To find out more on MythTV, see
<http://www.mythtv.org>

April 12, 2005: Digital Stereo Photography and Phantograms

Stereoscopic (3D) photography is almost as old as photography itself. However, when working with film and photo-chemical processing, getting good results was tricky and time-consuming. Digital cameras and computer-based processing have made the task much easier, and have also opened up the field to interesting new possibilities. The phantogram (technically a stereoscopic anamorphosis) is a relatively new form of stereo photograph, which makes use of the latest image manipulation tools, but is based on techniques and principles that have been around for centuries. The results can be quite impressive, and lifelike.

In this presentation, Gilbert Detillieux will describe some of the principles of stereo photography and phantogram production, as well as demonstrating this using open-source tools such as The GIMP, and freeware such as AnaBuilder (which is Java-based, and platform independent). The presentation will also discuss some of the legal issues facing those working in this medium, due to two US patents that have been granted recently, which cover some of the fundamental processes involved.

Where to find the Meeting

Meetings are held at the IBM offices at 400 Ellice Ave. (between Edmonton and Kennedy). When you arrive, you will have to sign in at the reception desk, and then wait for someone to take you up (in groups) to the meeting room. Please try to arrive by about 7:15pm, so the meeting can start promptly at 7:30pm. Don't be late or you may not get in.

Limited parking is available for free on the street, or in a lot across Ellice from IBM, for \$1.00 for the evening. Indoor parking is also available nearby, at Portage Place, for \$2.00 for the evening.

BSDCan 2005 schedule announced

BSDCan 2005 will be held on May 13-14 2005 at the University of Ottawa. Some of the presentations include:

Free (or nearly Free) Spam Reduction with PF and Spamd
speaker: Bob Beck

Montreal Wireless Group
speakers: Benoit Gregoire, Michael Lenczner

More Tools for Network Security Monitoring
speaker: Richard Bejtlich

Network Stack Randomness
speaker: Ryan McBride

OpenBGPD
speaker: Henning Brauer

SEBSD: Port of SELinux FLASK/Type Enforcement to FreeBSD using the TrustedBSD MAC Framework

The FreeBSD Package Cluster
speaker: Kris Kennaway

The FreeBSD SMPng Network Stack - Adapting the FreeBSD Network Stack for Threaded, Multi-Processor Operation
speaker: Robert Watson

TrustedBSD Audit: BSM Security Event Logging for FreeBSD

The full list of presentations is available at <http://www.bsdcn.org/2005/presentations.php>

Theo de Raadt presented with the 2004 Free Software Award

FOSDEM - Brussels, Belgium - Saturday February 26, 2005. At the award ceremony for the 2004 Advancement of Free Software.

FSF President and founder, Richard Stallman, presents this year's award to Theo de Raadt.

For recognition as founder and project leader of the OpenBSD and OpenSSH projects. Theo de Raadt's work has also led to significant contributions to GNU/Linux and other BSD distributions. Of particular note is Theo's work on OpenSSH. Theo's leadership of OpenBSD, his selfless commitment to Free Software and his advancement of network security, were cited by this year's award committee.

Every year, three finalists are nominated for the award by the Free Software Community. This year's other two finalists were Andrew Tridgell, recognized for his work as the originator of the Samba Project, and Cesar Brod, recognized for his advocacy work and leadership for the advancement of Free Software in Brazil.

Previous winners of the Free Software Award:

2003 Alan Cox
2002 Lawrence Lessig
2001 Guido van Rossum
2000 Brian Paul
1999 Miguel de Icaza
1998 Larry Wall

This year's Award Committee:

Suresh Ramasubramanian
Raj Mathur
Frederick Noronha
Hong Feng
Frederic Couchet
Enrique A. Chaparro
Vernor Vinge
Larry Wall
Alan Cox
Peter H Salus
Richard Stallman

The Free Software Foundation sponsors the annual Award for the Advancement of Free Software, to recognize and honor those that have made a great contribution to the progress and development of Free Software (free as in freedom as defined in the Free Software Definition, <http://www.fsf.org/licensing/essays/free-sw.html>), through activities that accord with the spirit of software freedom.

Any kind of activity could be eligible -- writing software, writing documentation, publishing software, even journalism -- but whatever the activity, we want to recognize long-term central contributions to the development of the world of software freedom. "Accord with the spirit" means, for example, that software, manuals or collections of them (online or on CD) must be entirely Free. Work done commercially is eligible, but we give this award to individuals, not to companies, organizations, or teams. You can support the award and the work of the Free Software Foundation here: (<http://www.fsf.org/donate>).

O'Reilly enters the magazine business

O'Reilly has launched "MAKE: technology on your time" a new magazine for 'hackers'. Here is the official announcement:

"MAKE brings the do-it-yourself mindset to all the technology in your life. MAKE is loaded with exciting projects that help you make the most of your technology at home and away from home. This is a magazine that celebrates your right to tweak, hack, and bend any technology to your own will.

Coming in February 2005, MAKE is a hybrid magazine/book (known as a mook in Japan). MAKE comes from O'Reilly, the Publisher of Record for geeks and tech enthusiasts everywhere. It follows in line with the Hacks books and Hardware Hacking Projects for Geeks, but it takes a highly visual and personal approach.

Our premier issue will show you how to get involved in kite aerial photography — taking pictures with a camera suspended from a kite — and how to build an inexpensive rig to hold your camera.

We'll also show you how to make a video camera stabilizer, a do-it-yourself alternative to an expensive Steadicam® and to create a five-in-one cable adapter for connecting to networks. Some projects are strictly for fun, others are very practical, and still others are absolutely astounding."

NetInstalling OpenBSD on sparc/sparc64

Contributed by: Theo

I have had a few friends (who ended up wimping out and installing either via scsi cdrom, or by writing the miniroot.fs to the swap partition) ask how to do a netboot install of OpenBSD on sparc or sparc64 architecture.

First thing's first:

1. enable the services you will need on your server (OpenBSD will be used for this example). This is

actually quite simple.. make sure the /etc/ethers file exists (we'll customize it later), as well as the /etc/bootparams file.

2. in the /etc/ethers file, add the mac address, and the hostname of the machine you want to install (you can get this from the openfirmware boot sequence). My file looks like this:

```
8:0:20:79:1c:1d ss5
8:0:20:c2:a8:7e netra2
```

3. add an entry to /etc/hosts for the machine in question.

4. create an /etc/bootparams file, this file contains the NFS path that will be mounted as the root filesystem. Mine looks like this:

```
ss5          root=salamander:/usr/home/ss5/root
             swap=salamander:/usr/home/ss5/swap
netra2       root=salamander:/usr/home/netra/root
             swap=salamander:/usr/home/netra/swap
```

5. enable the tftp daemon in /etc/inetd.conf (uncomment it)

6. copy boot.net or ofwboot.net to /tftpboot, you will make a symlink to the file that will be requested in a minute.

7. prepare the nfs directories:

```
mkdir -p /home/ss5/root
dd if=/dev/zero of=/home/ss5/swap bs=1k count=16000
cd /home/ss5/root
tar xzpf /path/to/base36.tgz
cp /path/to/bsd.rd .
ln -s bsd.rd bsd
```

8. nfs export the directory structure you made

9. either manually start rarpd and rpc.bootparamd, or just reboot your openbsd server and it will bring up the required services.

10. Now the tricky part, when you "boot net" your sun box, it will request a weirdly named file from the tftp server, and openbsd's tftp server doesn't have verbose logging like debians for example, but there is a really easy way to get around that. run tcpdump

```
# tcpdump -i hme0 port tftp
tcpdump: listening on hme0
05:22:33.667329 netra2.18619 > puffly.perl.cx.tftp: 17
RRQ "0A00013D"
```

The filename in quotes after RRQ is what you will want to symlink boot.net or ofwboot.net in /tftpboot, so create that symlink, and then you should be able to successfully "boot net" the box and do the install.

I used several sources to write this up, although none were really quite 100% complete.

http://legonet.org/~griffin/openbsd/netbooting_ss5.html

INSTALL.sparc/INSTALL.sparc64
diskless(8)

Firefox 1.0.1 released

The first update to open-source browser Firefox is out. Released February 24th 2005, Firefox 1.0.1 aims to fix a slew of vulnerabilities. Foremost among those are domain-spoofing and cross-site scripting bugs. According to the Mozilla Foundation, 1.0.1's release was pushed forward in order to take care of the International Domain Name bug. That particular bug results from Firefox's implement of the IDN specification, which allows the use of non-English characters in URL names. So substituting the "a" in amazon.com with а will result in Firefox displaying "amazon.com" in the address bar, while directing users to an entirely different site. The IDN issue is not unique to Firefox, as it also affects Opera, Safari, and OmniWeb - but not Internet Explorer.

Also fixed is another bug that enables web sites to force content into another site's window if the target name of the window is known. This could result in a malicious Web site spoofing the content of a pop-up window opened from the second site. Left un-patched for now are a Java plug-in tab spoof, which can occur when opening un-trusted sites in a new tab, and a cross-domain cookie-injection bug. The Mozilla Foundation is working with Sun to fix the Java spoof and is collaborating with Opera and Safari to find a solution to the cookie-injection bug.

LOCKSS ('Lots of Copies Keep Stuff Safe')

"LOCKSS ('Lots of Copies Keep Stuff Safe') is open source, peer-to-peer software that functions as a persistent access preservation system. Information is delivered via the web, and stored using a sophisticated but easy to use caching system. Simply put, LOCKSS provides for Jefferson's 'multiplication of copies,' but with an electronic twist. The LOCKSS software distribution includes everything you need, including a specially configured OpenBSD operating system and the LOCKSS daemon."

"The hardest things for a system administrator to do correctly are to install, configure and upgrade software so that there are no vulnerabilities an attacker can exploit, and especially to recover a system that an attacker has penetrated. The LOCKSS CD includes not just the LOCKSS daemon but also a pre-configured, highly secure operating system. Because the operating system is on a non-writable CD, and the configuration is on a non-writable floppy, it returns to a known-good state after every reboot. The system includes an automatic software update system that is protected by digital signatures, so it is upgraded automatically and securely. About every six months the LOCKSS team releases a new, updated CD. All the operator has to do is to burn the new CD image, swap CDs and reboot."

Rare, Collectible MUUG Shirts for Sale!

Don't miss out on the rare (only 35 made) and highly collectible MUUG Golf Shirts. We only have two XL beige shirts left. They are \$40 and are available at the monthly MUUG meeting. Get them while they last!

Sending Us E-Mail?

Due to the amount of e-mail MUUG receives, we've set up an auto-reply to give you immediate feedback, and redirect some of the e-mail to the appropriate places. Why not look at <http://www.muug.mb.ca/about.html#contacts> first?