



# 4th Annual Linux Showcase & Conference, Atlanta

October 10-14, 2000  
Atlanta, Georgia

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**Technical Sessions** [Thurs., Oct. 12](#) | [Fri., Oct. 13](#) | [Sat., Oct. 14](#) | [All in one file](#)

## FRIDAY, OCTOBER 13, 2000

10:00 am - 11:30 am

### HACK LINUX

#### File Systems

Session Chair: Theodore Ts'o, *VA Linux Systems*

#### JFS Log: How the Journalled File System Performs Logging

Steve Best, *IBM Linux Technology Center*

#### Scalability and Failure Recovery in a Linux Cluster File System

Kenneth Preslan, Andrew Barry, Jonathan Brassow, Michael Declerck, A.J. Lewis, Adam Manthei, Ben Marzinski, Erling Nygaard, Seth Van Oort, David Teigland, Mike Tilstra, Steve Whitehouse, and Matthew O'Keefe, *Sistina Software, Inc.*

#### The Tux2 Failsafe Filesystem

Daniel Phillips

### EXTREME LINUX

#### Systems

Session Chair: Remy Evard, *Argonne National Laboratory*

#### The Portable Batch Scheduler and the Maui Scheduler on Linux Clusters

Brett Bode, David M. Halstead, Ricky Kendall, and Zhou Lei, *Ames Laboratory, DOE*; David Jackson, *Maui High Performance Computing Center*  
(30 minutes)

#### Cluster Administration Has Been Solved, or Has It?

Moderator: Remy Evard, *Argonne National Laboratory*  
Panelists: Susan Coghlan, *TurboLinux*, Richard Ferri, *IBM*, Brian Finley, *VA Linux*, Greg Lindahl, *HPTi*, John-Paul Navarro, *Argonne National Laboratory*, Lee Ward, *Sandia National Laboratory*, and Stephen L. Scott, *Oak Ridge National Laboratory*  
(1 hour)

### USE LINUX

#### The XFree86 Loadable Architecture & Whazzup with XFree86

Stuart Anderson, *Metro Link, Inc/XFree86 Core Team*

This talk will provide some history and technical information on the new Loadable Architecture in XFree86 4.0. The following will be included:

- The origins of the Loader itself
- How the architecture developed
- How it evolved
- Benefits of the new architecture
- Using the new architecture
- Rules for developing for this architecture
- Where this architecture is heading

The second part of the talk will be a classic state-of-the-project talk, including the status of XFree86 4.0, its features, card support, platform support, looking at XFree86

In this panel, we will examine systems administration solutions from a variety of vendors and the approaches of several large cluster managers. Our goal is to understand what systems administration challenges remain for the community of large-scale cluster. Where do large-scale cluster have special problems? What problems have been solved by vendor and open source solutions? What does the future hold?

4.next, and current thinking at the time.

11:30 am - 1:00 pm Lunch (on your own)

1:00 pm - 2:30 pm

HACK LINUX	EXTREME LINUX	USE LINUX
<p><b>Potpourri</b> Session Chair: Victor Yodaiken, <i>New Mexico Institute of Mining and Technology</i></p> <p><b>VA SystemImager</b> Brian Elliot Finley, <i>VA Linux Systems</i></p> <p><b>GCC 3.0: The State of the Source</b> Mark Mitchell and Alexander Samuel, <i>CodeSourcery, LLC</i></p> <p><b>SMP Scalability Comparisons of Linux Kernels 2.2.14 and 2.3.99</b> Ray Bryant, Bill Hartner, Qi He, and Ganesh Venkitachalam, <i>IBM Linux Technology Center</i></p>	<p><b>Clusters</b></p> <p><b>Design of a Very-large Linux Cluster for Providing Reliable and Scalable Speech-to-Email Service</b> Randy Brumbaugh and Todd Vernon, <i>Evoke Communications</i> (30 minutes)</p> <p><b>Cluster Applications: Experiences and Desires</b> Chair and Moderator: Pete Beckman, <i>TurboLabs</i> (1 hour)</p> <p>First-come, first-serve 5 minute descriptions of cluster applications and their requirements.</p>	<p><b>Security Applications</b></p> <p><b>Samba and SSL</b> Daniel Carrere, <i>Open Systems Consulting International</i></p> <p><b>SSH Port Forwarding</b> Giles Orr and Jacob Wyatt, <i>Georgia College &amp; State University</i></p> <p><b>Invited Talk</b></p> <p><b>The Aging of Wine</b> Jeremy White, <i>Codeweavers</i></p> <p>This talk will discuss the status of Wine and Winelib. Wine enables users to run Windows binaries on Linux and Winelib enables developers to port Windows software to Linux. The talk will cover the current state of Wine, the task list</p>

required for version 1.0, and the current progress towards 1.0.

2:30 pm - 3:30 pm Break

3:30 pm - 5:00 pm

**Invited Talk**

**Google Linux Clustering in the Real World**

Jim Reece, *Google*

5:00 pm - 5:30 pm Break

5:30 pm - 6:45 pm

**Keynote**

Larry Wall, *O'Reilly & Associates, Inc.*

Larry Wall is the inventor of Perl. He has also authored other popular free programs available for UNIX, including the rn news reader and the ubiquitous patch program.

**[Thursday Technical Sessions](#)**

 **PREVIOUS** 

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