



2001 FREENIX Track Technical Program

FREENIX Track: 2001 USENIX Annual Technical Conference

June 25–30, 2001
Boston, Massachusetts, USA

REFEREED PAPERS

Thursday, June 28, 2001

Mac Security

Session Chair: Dan Geer, @stake, Inc.

LOMAC: MAC You Can Live With

Timothy Fraser, *NAI Labs*

TrustedBSD: Adding Trusted Operating System Features to FreeBSD

Robert N. M. Watson, *FreeBSD Project, NAI Labs*

Integrating Flexible Support for Security Policies into the Linux Operating System

Peter Loscocco, *NSA*, and Stephen Smalley, *NAI Labs*

Scripting

Session Chair: Erez Zadok, SUNY at Stony Brook

A Practical Scripting Environment for Mobile Devices

Brian Ward, *University of Chicago*

Awarded Best Paper!

Nickle: Language Principles and Pragmatics

Bart Massey, *Portland State University*, and Keith Packard, *SuSE Inc.*

The Design and Implementation of the NetBSD rc.d System

Luke Mewburn, *Wasabi Systems, Inc.*

User Space

Session Chair: Alan Nemeth, Compaq

User-Level Checkpointing for LinuxThreads Programs

William R. Dieter and James E. Lumpp, Jr., *University of Kentucky*

Building an Open-source Solaris-compatible Threads Library

John Wood, *Compaq Computer UK Ltd*

Are Mallocs Free of Fragmentation?

Aniruddha Bohra, *Rutgers University*, and Eran Gabber, *Lucent Technologies–Bell Labs*

Friday, June 29, 2001

User Environment

Session Chair: Ken Coar, The Apache Software Foundation/IBM

Sandboxing Applications

Vassilis Prevelakis, *University of Pennsylvania*, and Diomidis Spinellis, *Athens University*

Building a Secure Web Browser

Sotiris Ioannidis, *University of Pennsylvania*, and Steven M. Bellovin, *AT&T Labs-Research*

Citrus Project: True Multilingual Support for BSD Operating Systems

Jun-ichiro itojun Hagino, *Internet Initiative Japan Inc.*

Kernel

Session Chair: Drew Gallatin, Duke/FreeBSD

Kqueue-A Generic and Scalable Event Notification Facility

Jonathan Lemon, *FreeBSD Project*

Improving the FreeBSD SMP Implementation

Greg Lehey, *IBM LTC Ozlabs*

Page Replacement in Linux 2.4 Memory Management

Rik van Riel, *Conectiva Inc.*

Storage

Session Chair: Clem Cole, Paceline Systems Corp.

User-Level Extensibility in the Mona File System

Paul W. Schermerhorn, Robert J. Minerick, Peter Rijks, and Vincent W. Freeh, *University of Notre Dame*

Volume Managers in Linux

David Teigland and Heinz Mauelshagen, *Sistina Software, Inc.*

The Design and Implementation of a Transparent Cryptographic File System for UNIX

Giuseppe Cattaneo, Luigi Catuogno, Aniello Del Sorbo, and Pino Persiano, *Università di Salerno*

Saturday, June 30, 2001

Graphics

Session Chair: Gary Paxinos, Metro Link/XFree86

Design and Implementation of the X Rendering Extension

Keith Packard, *XFree86 Core Team, SuSE Inc.*

Scwm: An Extensible Constraint-Enabled Window Manager

Greg J. Badros, *InfoSpace.com*; Jeffrey Nichols, *Carnegie Mellon University*; and Alan Borning, *University of Washington*

The X Resize and Rotate Extension-RandR

Jim Gettys, *Compaq*, and Keith Packard, *XFree86 Core Team, SuSE Inc.*

Securing Networks

Session Chair: Ted Faber, ISI/USC

Awarded Best Student Paper!

MEF, Malicious Email Filter—A UNIX Mail Filter That Detects Malicious Windows Executables

Matthew G. Schultz and Eleazar Eskin, *Columbia University*; Erez Zadok, *SUNY Stony Brook*; Manasi Bhattacharyya and Salvatore J. Stolfo, *Columbia University*

Cost Effective Security for Small Businesses

Sean R. Brown, *Applied Geographics, Inc.*

Heimdal and Windows 2000 Kerberos—How to Get Them to Play Together

Assar Westerlund, *Swedish Institute of Computer Science*, and Johan Danielsson, *Center for Parallel Computers, KTH*

Resource Management

Session Chair: Theodore Ts'o, VA Linux Systems

Predictable Management of System Resources for Linux

Mansoor Alicherry, *Bell Labs*, and K. Gopinath, *Indian Institute of Science*

Scalable Linux Scheduling

Stephen Molloy and Peter Honeyman, *CITI—University of Michigan*

A Universal Dynamic Trace for Linux and Other Operating Systems

Richard J. Moore, *IBM, Linux Technology Centre*

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