

2002 USENIX Annual Technical Conference

<http://www.usenix.org/events/usenix02>

June 10–15, 2002

Monterey Conference Center, Monterey, California

Important Dates

FREENIX Refereed Track submission deadline:

November 12, 2001

General Session Refereed Track submission deadline: *November 19, 2001*

Notification to authors: *January 22, 2002*

FREENIX Track papers due for final

shepherding approval: *April 8, 2002*

Camera-ready papers due: *April 16, 2002*

Conference Organizers

Program Committee:

Chair: Carla Ellis, *Duke University*

Darrell Anderson, *Duke University*

Mary Baker, *Stanford University*

Frank Bellosa, *University of Erlangen-Nuernberg*

Greg Ganger, *Carnegie-Mellon University*

Mike Jones, *Microsoft Research*

Patrick McDaniel, *University of Michigan*

Jason Nieh, *Columbia University*

Vern Paxson, *ACIRI*

Christopher Small, *Sun Microsystems*

Mirjana Spasojevic, *HP*

Mike Spreitzer, *IBM*

Amin Vahdat, *Duke University*

Invited Talks Coordinator:

Matt Blaze, *AT&T Labs—Research*

Ted Faber, *USC Information Sciences Institute*

FREENIX Program Committee:

Chair: Chris Demetriou, *Broadcom Corp.*

Chuck Cranor, *AT&T Labs—Research*

Jim McGinness, *Consultant*

Craig Metz, *Extreme Networks*

Toon Moene, *GNU Fortran Team*

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

Niels Provos, *University of Michigan*

Ronald Joe Record, *Caldera Systems*

Robert Watson, *NAI Labs & The FreeBSD*

Project

Erez Zadok, *SUNY at Stony Brook*

Overview

USENIX is the Advanced Computing Systems Association. For over 25 years, its members have come from a broad community of developers, researchers, system administrators and engineers with interests spanning the full range of technology. As the core conference of this community, the USENIX Annual Technical Conference is the premier forum for computing professionals to share the results of their latest and best work, develop new ideas and solutions, and connect with their colleagues.

Three days of tutorials start the conference with practical tutorials on timely topics. The three-day technical session of the conference follows and includes a track of General Session Refereed Papers selected by the Program Committee; a track of Invited Talks by experts and leaders in the field; and FREENIX, a track of refereed papers on freely available POSIX-based software and systems.

General Session Refereed Papers

The 2002 USENIX Technical Conference seeks original and innovative papers about the applications, architecture, implementation, and performance of modern computing systems. Some particularly interesting application topics are:

- Cluster computing
- Complexity management
- Distributed caching and replication
- Energy/Power management
- File systems and storage systems
- Interoperability of heterogeneous systems
- Mobile/Wireless computing
- Mobile code
- Networking and network services
- Multimedia
- Reliability and QoS
- Security and privacy
- Ubiquitous computing
- Usage studies
- Web technologies

As at all USENIX conferences, papers that analyze problem areas, draw important conclusions from practical experience, and make freely available the techniques and tools developed in the course of the work are especially welcome.

Cash prizes will be awarded to the best papers at the conference. Please see the Web site for examples of Best Papers from previous years.

How to Submit a Paper to the General Session Refereed Track

Authors are required to submit full papers by Monday, November 19, 2001 at 23:59 EST. **This is a hard deadline; no extensions will be given.** In cases of serious hardship, contact usenix02chair@usenix.org. All submissions for USENIX 2002 will be electronic, in PostScript or PDF, via a Web form located on the conference Web site. Authors will be notified of receipt of submission via e-mail. If you do not

receive notification by Friday, November 23, 2001, please contact: usenix02chair@usenix.org.

Papers should be 8 to 12 single-spaced 8.5 x 11 inch pages (about 4000-6000 words), not counting figures and references. Papers longer than 14 pages and papers so short as to be considered extended abstracts (e.g., five pages or less) will not be reviewed.

It is imperative that you follow the instructions for submitting a quality paper. Specific questions about submissions may be sent to the program chair via email to: usenix02chair@usenix.org.

A good paper will clearly demonstrate that the authors:

- are attacking a significant problem,
- are familiar with the literature,
- have devised an original or clever solution,
- if appropriate, have implemented the solution and characterized its performance using reasonable experimental techniques, and
- have drawn appropriate conclusions from their work.

Authors will be notified of paper acceptance or rejection by January 22, 2002. Accepted papers will be shepherded by a program committee member through an editorial review process prior to final acceptance for publication in the proceedings.

FREENIX Refereed Track

FREENIX is a special track within the USENIX Annual Technical Conference. USENIX encourages the exchange of information and technologies between commercial UNIX products and the free software world as well as among the various free operating-system alternatives.

FREENIX is the showcase for the latest developments and interesting applications of freely-redistributable software. The FREENIX forum includes Apache, Darwin, FreeBSD, GNOME, GNU, KDE, Linux, NetBSD, OpenBSD, Perl, PHP, Python, Samba, Tcl/Tk and more. The FREENIX track attempts to cover the full range of software which is freely redistributable in source-code form and provides pointers to where the code can be found on the Internet.

Submissions to the FREENIX track should describe freely-redistributable software. FREENIX encourages submissions which describe mature work, and for which the authors

are ready to fully describe the background, new ideas, experiments, and results of their work. The FREENIX track also seeks to gather reports on projects that are current and solidly under way, but may not yet be 100% finished. This differs from a Works-In-Progress session, which is really a poster session for ideas.

FREENIX is looking for papers about projects with a solid emphasis on nurturing the open source and freely-available software communities. The purpose for the FREENIX track is not as an archival reference for all available projects with freely-redistributable source code, but rather a place to let others know about the project on which you are working and to provide a forum from which to expand your user and developer base. Papers should advance the state of the art of freely-redistributable software or otherwise provide useful information to those faced with deploying, selling, or using free software in the field.

Areas of interest include, but are not limited to:

- Cross-platform source portability and binary compatibility
- Desktop metaphors
- Distributed and parallel systems
- Documentation
- File system design
- Graphical user interface tools
- Highly-available systems
- Highly-scalable and clustered systems
- How free software is being developed and managed today
- Interesting deployments of free software
- Large scale system management
- Network design and implementation
- Operating system design
- Print systems
- Quality Assurance
- Security
- Software development tools
- Storage systems
- System and user management tools
- Technical aspects of commercial use of free software

Interesting applications of freely-redistributable software include: wearable computers, video or audio processing, ubiquitous computing, studio graphics, robotics and automation, large-scale environments, high-speed networking, high-performance simulations, embedded systems, clustering, automation, and more.

Cash prizes will be awarded for the best paper and the best paper by a student.

How to Submit to the FREENIX Refereed Track

The FREENIX Refereed track submission deadline is November 12, 2001.

You may submit either a complete paper, or a 2-5 page extended abstract or summary of

your work to date. The program committee reads these submissions to determine which papers to accept for the conference; it is important that you include enough detail that program committee members can know what you are doing. In no event should you submit a description in excess of 14 pages including all figures, tables, and bibliography.

All submissions for the USENIX 2002 FREENIX Track will be electronic, in PostScript, PDF, or plain text, via a Web form located on the conference Web site.

Authors will be notified of receipt of submission via e-mail. If you do not receive notification by Friday, November 16, 2001, please contact: freenix02chair@usenix.org.

If you have specific questions about submissions, send them to the program chair via email to: freenix02chair@usenix.org.

Please see the Web site for more detailed guidelines on FREENIX submissions including what a good paper should include and paper examples: <http://www.usenix.org/events/usenix02/cfp/freenixsubmit.html>

Publication Restrictions for the General Track and FREENIX Refereed Papers

The USENIX Technical Conference, like most conferences and journals, requires that both General Track and FREENIX papers not be submitted simultaneously to more than one conference or publication, that submitted papers not be previously published elsewhere, and that accepted papers not be subsequently published elsewhere for a year from date of acceptance by USENIX. Papers submitted to this conference that are under review elsewhere will not be reviewed. Papers accompanied by non-disclosure agreement forms can not be accepted, and will not be reviewed. All submissions are held in the highest confidentiality prior to publication in the Proceedings, both as a matter of policy and in accord with the U.S. Copyright Act of 1976.

Submitting a Tutorial Program Proposal

On Monday–Wednesday, June 10–12, USENIX's well-respected tutorial program offers intensive, immediately practical tutorials on topics essential to the use, development, and administration of advanced computing systems. Skilled instructors, who are hands-on experts in their topic areas, present both introductory and advanced tutorials covering topics such as:

- High availability and quality of service
- Distributed, replicated, and web based systems
- System administration and security
- Embedded systems
- File systems and storage systems
- Interoperability of heterogeneous systems
- Operating systems (Linux, *BSD, NT, etc.)
- Application development (threads, Perl, etc.)

- Intrusion detection and prevention
- Internet security
- Mobile code and mobile computing
- New algorithms and applications
- Systems application configuration and maintenance
- Personal digital assistants
- Security and privacy
- Web-based technologies

To provide the best possible tutorial slate, USENIX continually solicits proposals for new tutorials. If you are interested in presenting a tutorial, contact: Dan Klein, Tutorial Coordinator, Phone: 1.412.422.0285, Email: dkk@usenix.org

Submitting an Invited Talk Proposal

These survey-style talks given by experts range over many interesting and timely topics. The Invited Talks track also may include panel presentations and selections from the best presentations at recent USENIX conferences.

The Invited Talks coordinators welcome suggestions for topics and request proposals for particular talks. In your proposal state the main focus, including a brief outline, and be sure to emphasize why your topic is of general interest to our community. Please submit via email to usenix02it@usenix.org.

Work-in-Progress Reports

Do you have interesting work you would like to share, or a cool idea that is not yet ready to be published? The USENIX audience provides valuable discussion and feedback. We are particularly interested in presentation of student work. To request a WIP slot, send email to usenix02wips@usenix.org.

Birds-of-a-Feather Sessions (BoFs)

The always popular evening BoFs are very informal, attendee-organized gatherings of persons interested in a particular topic. BoFs may be scheduled at the conference or in advance via email to conference@usenix.org.

USENIX Exhibition

In the exhibition, the emphasis is on serious questions and feedback. Vendors will demonstrate the features and technical innovations which distinguish their products. For more information, please contact the Exhibition Manager at exhibits@usenix.org

Registration Materials

Complete program and registration information will be available in March 2002 at <http://www.usenix.org/events/usenix02>. The information will be in both html and a printable PDF file. If you would like to receive the program booklet in print, please email your request, including your postal address, to: conference@usenix.org.