

2001 USENIX Annual Technical Conference

<http://www.usenix.org/events/usenix01>

June 25-30, 2001

Marriot Copley Place Hotel, Boston, Massachusetts

Important Dates

FREENIX Refereed Track submission deadline:

November 27, 2000

General Session Refereed Track submission deadline: *December 1, 2000*

Notification to authors: *January 31, 2001*

FREENIX Track papers due for shepherding: *April 16, 2001*

Camera-ready papers due: *May 1, 2001*

Conference Organizers

Program Committee:

Chair: Yoonho Park, *ReefEdge*

Mohit Aron, *Rice University*

Carla Ellis, *Duke University*

Wuchi Feng, *Ohio State University*

Greg Ganger, *Carnegie-Mellon University*

Sheila Harnett, *IBM Austin*

Peter Honeyman, *University of Michigan*

Jochen Liedtke, *University of Karlsruhe*

Robert Miller, *Carnegie-Mellon University*

Vern Paxson, *ACIRI*

Doug Schmidt, *University of California, Irvine*

Margo Seltzer, *Harvard University*

Dan Wallach, *Rice University*

Invited Talks Coordinators:

Matt Blaze, *AT&T Labs—Research*

John T. Kohl, *Rational Software*

FREENIX Program Committee:

Chair: Clem Cole, *Compaq*

Ken Coar, *Apache*

Chris Demetriou, *NetBSD*

Ted Faber, *ISI*

Drew Gallatin, *Duke/FreeBSD*

Alan Nemeth, *Compaq*

Simon Patience, *SGI/Linux*

Garry Paxinos, *XFree86/Metro-X*

Stephen Tweedie, *RH/Linux*

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 2001 USENIX Technical Conference seeks original and innovative papers about the applications, architecture, implementation, and performance of modern computing systems. As at all USENIX conferences, papers that analyze problem areas and draw important conclusions from practical experience are especially welcome. Some particularly interesting application topics are:

- Cluster computing
- Complexity management
- Distributed caching and replication
- Extensible operating systems
- File systems and storage systems
- Interoperability of heterogeneous systems
- Mobile code
- Networking and network services
- Multimedia
- Pervasive computing
- Reliability and QoS
- Security and privacy
- 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 the 1999 Best Papers.

How to Submit a Paper to the General Session Refereed Track

Authors are required to submit full papers by Friday, December 1, 2000.

All submissions for USENIX 2001 will be electronic, in PostScript or PDF. To submit a paper, go to <http://www.usenix.org/events/usenix01/cfp/refereedsubmit.html>.

Authors will be notified of receipt of submission via e-mail. If you do not receive notification, contact: usenix01chair@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 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: usenix01chair@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.

Note: the USENIX Technical Conference, like most conferences and journals, requires that papers not be submitted simultaneously to more than one conference or publication, and that submitted papers not be previously or subsequently published elsewhere. 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.

Authors will be notified by January 31, 2001. Some 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 the 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 software applications in a form that is being freely redistributed. The FREENIX forum includes Apache, FreeBSD, GNOME, GNU, KDE, Linux, NetBSD, OpenBSD, Samba, 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. Clem Cole is serving as FREENIX program chair.

Submissions to the General Session Refereed Track are expected to represent mature work for which the authors are ready to fully describe the background, new ideas, experiments, and results of their work. By contrast, the FREENIX Track seeks to gather reports on projects that are currently and solidly underway, but may not yet be completely finished. This differs from a Works-In-Progress session which is really a poster for ideas.

FREENIX is looking for paper about projects with a solid emphasis on nurturing the open source/freely available software community. The purpose for the FREENIX papers is not as wholly an archival reference, 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 base.

We are looking for talks which advance the state of the art of freely redistributable software or otherwise provide useful information to those faced with deploying (and selling) free software in the field.

Areas of interest include, but are not limited to:

- Operating system design
- Network design and implementation
- File system design
- Highly-available systems
- Highly-scalable systems
- Graphical user interface tools
- Desktop metaphors
- File and print systems
- System management tools
- Security
- Large scale system management
- Interesting deployments of free software
- How free software is being developed and managed today

Interesting applications of freely redistributable software might include: robotics and automation, clustering, wearable computers, embedded systems, high-speed networking, studio graphics, and audio processing.

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

How to Submit to the FREENIX Refereed Track

Authors are required to submit one to three page summaries by Monday, November 27, 2000.

All submissions for the FREENIX Track will be electronic. To submit a paper, go to <http://www.usenix.org/events/usenix01/cfp/freenixsubmit.html>.

Authors will be notified of receipt of submission via e-mail. If you do not receive notification, contact: freenix01chair@usenix.org.

You may submit a full paper, however we expect that most submissions will be 1–3 page

summaries of your work to date. Please provide enough detail to let us know what you are doing. In no event should you submit a description in excess of 14 pages.

Specific questions about submissions may be sent to the program chair via email to:

freenix01chair@usenix.org.

A good submission will clearly demonstrate that the authors:

- are attacking a significant problem that has general interest to the Freenix community,
- are actively working on a solution, and
- have made enough progress to have useful information to report in a formal paper.

In particular, the FREENIX track is not for people that are thinking about doing some project, but have not yet started it. Such talks are better presented in the Work-In-Progress (WIP) session.

Authors will be notified by January 31, 2001. All accepted authors will be expected to produce a written report for the proceedings. These reports must be reviewed and accepted by the paper's shepherds by April 16, 2001. After shepherd approval, the reports then must be submitted with the standard release forms to the USENIX office by May 1, 2001. If you would like to avoid future formatting changes, you may consult predefined templates on the conference Web site.

These reports need not be as polished papers as would be submitted to the general session refereed track, although the higher quality submissions are often better received by the community. The papers should describe work that has been completed as of the time of their submission. The purpose of your paper is to let readers and attendees know what you are doing. Your talk at the conference may describe not only what is in your paper but also the work completed between the time that the paper is submitted and the conference is held.

Submitting a Tutorial Program Proposal

On Monday-Wednesday, June 25-27, 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: dvk@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 usenix01it@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 usenix01wips@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: Dana Geffner, USENIX Exhibition Manager Phone: 1.831.457.8649 Email: dana@usenix.org

Registration Materials

Complete program and registration information will be available in March 2001 on the conference Web site. 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.