Announcement and Call for Papers **USENIX**

USENIX 1999 Annual Technical Conference

For more information about this conference, see http://www.usenix.org/events/usenix99

June 6-11, 1999   **Monterey Conference Center**   **Monterey, California, USA**

Important Due Dates
Papers due: December 2, 1998
Author notification: January 20, 1999
Final refereed papers due: April 27, 1999
Final FREENIX papers due: May 11, 1999

Program Committee
Program Chair: Avi Rubin, *AT&T Labs - Research*
Charles Antonelli, *CITI*
Partha Dasgupta, *Arizona State University*
Wu-Chi Feng, *Ohio State University*
Robert Gray, *Boulder Labs*
Peter Honeyman, *USENIX*
Orran Krieger, *IBM*
Anthony LaMarca, *Xerox PARC*
Darrell Long, *University of California, Santa Cruz*
Gary McGraw, *Reliable Software Technologies*
Yoon-Ho Park, *IBM*
Christopher Small, *Lucent Technologies Bell Labs*
Keith A. Smith, *Harvard University*
Mirjana Spasojevic, *Hewlett-Packard Labs*

Invited Talks Co-Coordinators
Clem Cole, *Digital Equipment Corp.*
John Heidemann, *USC/Information Sciences Institute*

Best Paper Awards
Prizes will be awarded for the best paper and the best paper by a student.

Refereed Papers
Three days of Technical Sessions include one refereed paper track and parallel tracks of Invited Talks and FREENIX Sessions. Refereed papers are published in the Proceedings which are provided to Technical Sessions attendees, along with Invited Talks/FREENIX materials.

The Program Committee 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:

Availability
Distributed caching and replication
Embedded systems
Extensible operating systems
File systems and storage systems
Interoperability of heterogeneous systems
Mobile code
Mobile computing
Multimedia
New algorithms and applications
Personal digital assistants
Quality of service
Reliability
Security and privacy
Ubiquitous computing and messaging
Web technologies

How to Submit a Paper to the Refereed Track
Authors are required to submit full papers by December 2, 1998.

Please read carefully.

We are looking for mature, full papers. Papers should be 8 to 14 single-spaced 8.5"x11" pages (about 4000-7000 words), not counting figures and references. Papers longer than 14 pages will not be reviewed. Papers so short as to be considered Òextended abstractsÓ will not receive full consideration.

It is imperative that you follow the instructions for submitting a quality paper. Specific questions about submissions may be sent to the program chairman via email to **rubin@usenix.org**. A good paper will 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
  have drawn appropriate conclusions

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 accompanied by non-disclosure agreement forms are not acceptable and will be returned to the author(s) unread. 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 20, 1999. Some accepted papers will be shepherded by a program committee member through an editorial review process prior to publication in the Proceedings.

How to Send Refereed Paper Submissions
Please follow these two steps:

STEP 1:
Send one copy of your manuscript to the address below. All submissions will be acknowledged.

Preferred method: Postscript submission. See instructions at
www.research.att.com/~rubin/esub.html
You **must** follow the instructions carefully.

Alternate method:
Send 15 hard copies of the manuscript to:

   Technical Conference Submission
   Aviel D. Rubin
   Secure Systems Research Dept.
   AT&T Labs - Research
   180 Park Avenue
   Florham Park, NJ 07932-0971 USA

STEP 2:
In addition, authors must submit the following information (for administrative handling) via email to
usenix99abstracts@research.att.com. This should be a separate ASCII-only email message.
1. The title of the paper and the names of the authors. (Note: authorsÕ names and affiliations will be known to the reviewers).

2. The name of one author who will serve as a contact, email and postal addresses, day and evening phone numbers, and a fax number if available.
3. An indication of which, if any, of the authors are full-time students.
4. A short abstract of the paper (100-200 words). This can be the same as the paper̃s abstract.

FREENIX Track
FREENIX is special track within the conference. USENIX encourages the exchange of information and technologies between commercial product vendors and the free software world, as well as among the various free operating system alternatives themselves, and the FREENIX track has been created to further promote this process. FREENIX attendees may also attend any of the USENIX Conference offerings and informal get-togethers.

FREENIX is also a showcase for the latest developments and interesting applications in the world of freely redistributable software, covering everything from FreeBSD to Linux, GNU to Samba, etc. The FREENIX track attempts to cover the full range of software which is freely redistributable in source code form or provides pointers to where the code can be found on the Internet.

FREENIX Program Committee
Chair: Jordan Hubbard, *FreeBSD*
David Greenman, *FreeBSD*
John Ioannidis
Angelos D. Keromytis, *OpenBSD*
Kirk McKusick, *BSD*
Jason Thorpe, *NetBSD*
Nathan Torkington
Theodore Tsõ, *Linux/GNU*

FREENIX Technical Presentations
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 ÒsellingÓ) 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
Audio processing

How to Submit a FREENIX Track Presentation
By September 15, 1998, please submit a one page abstract of your proposed presentation, along with a short biography and a comment about your connection with the software involved. This information will be provided to the reviewers of your paper. All topics in the FREENIX track must be about software which is freely redistributable in source code form. Please include pointers to where your code can be found.

Please include the following information for administrative handling:
1. The title of the presentation and the name(s) of the presenters
2. The name of one person who will serve as a contact, along with their email and postal addresses, day and evening phone numbers, and a fax number if available. Please email one copy of the above information (ASCII greatly preferred) to **freenix@usenix.org**.

Tutorial Proposals Welcome
On Sunday, Monday, and Tuesday, June 6-8, USENIXÕwell-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 experts in their topic areas, present both introductory and advanced tutorials covering topics such as:

System and network administration
Java and Perl topics
High availability, scalability, and reliability
Programming tools and program development
Portability and interoperability
System and network security
Client-server application design and development
Sendmail, DNS, and other networking issues

GUI technologies and builders
WWW and CGI technologies
Performance monitoring and tuning
Freely distributable software

If you are interested in presenting a tutorial, contact: Dan Klein, Tutorial Coordinator 412.422.0285, **dvk@usenix.org**

Invited Talks Proposals Welcome
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 requests proposals for particular talks. In your proposal state the main focus, include a brief outline, and be sure to emphasize why your topic is of general interest to our community. Please submit via email to **ITusenix@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 schedule your short report, send email to **wips99@usenix.org**.

Birds-of-a-Feather Sessions
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 by contacting the USENIX Conference Office by phone at 714.588.8649 or 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, including a list of current exhibitors, see **www.usenix.org/events/usenix99/vendors.htm**l.
Contact:
Cynthia Deno
USENIX Exhibition Coordinator
Telephone: 408.335.9445
Email: **cynthia@usenix.org**