

# 1998 USENIX Annual Technical Conference

Sponsored by USENIX, the UNIX™ and Advanced Computing Systems Association

June 15–19, 1998

Marriott Hotel ■ New Orleans, Louisiana

## Important Due Dates

Manuscripts due: *November 25, 1997*

Notification to authors:

*January 26, 1998*

Full papers due for editorial review:

*March 30, 1998*

Camera-ready papers due:

*April 27, 1998*

## Program Committee

**Chair:** Fred Douglass, *AT&T Labs*

Pei Cao, *University of Wisconsin*

Ed Felten, *Princeton University*

Frans Kaashoek, *MIT*

Orran Krieger, *IBM*

Greg Minshall, *Ipsilon*

Mike Nelson, *Silicon Graphics, Inc.*

Dave Presotto, *Bell Labs*

Mike Schwartz, *@Home Network*

Terri Watson, *Microsoft*

Ben Zorn, *University of Colorado*

Elizabeth Zwicky, *Silicon Graphics, Inc.*

## Invited Talks Coordinator

Berry Kercheval, *Xerox PARC*

## Refereed Papers

Three days of Technical Sessions include one refereed paper track and a parallel track of Invited Talks. Refereed papers are published in the Proceedings which are provided to Technical Sessions attendees, along with Invited Talks Submitted Notes.

The 1998 USENIX Technical Conference 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 con-

clusions from practical experience are especially welcome. Some particularly interesting application topics are:

**ActiveX, Inferno, Java, and other embeddable environments**  
**Distributed caching and replication**  
**Extensible operating systems**  
**Internet telephony**  
**Interoperability of heterogeneous systems**  
**Nomadic and wireless computing**  
**Privacy and security**  
**Quality of service**  
**Ubiquitous computing and messaging**

A major focus of this conference is the challenge of technology: What is the effect of commodity hardware on how we build new systems and applications? What is the effect of next-generation hardware? We seek original work describing the effect of hardware technology on software. Examples of relevant hardware include but are not limited to:

**Cheap, fast personal computers**  
**Cheap, large DRAM and disks**  
**Flash memory**  
**Gigabit networks**  
**Wireless networks**  
**Cable modems**  
**WebTV**  
**Personal digital assistants**  
**Network computers**

## Tutorial Suggestions and Proposals Welcome

On Monday and Tuesday, June 15-16, 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:

**System and network administration**  
**System and network security**  
**Java**  
**Distributed computing**  
**Kernel internals: SVR4, BSD, NT**  
**Programming tools and program development**  
**Portability and interoperability**  
**Client-server application design and development**  
**Sendmail, DNS, and other networking issues**  
**GUI technologies and builders**  
**World Wide Web 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, Coordinator

Telephone: 412.421.2332

Email: [dvk@usenix.org](mailto:dvk@usenix.org)

## Invited Talks Suggestions and Proposals Welcome

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

The Invited Talks coordinator welcomes 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](mailto: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 [wips98@usenix.org](mailto:wips98@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 by contacting the USENIX Conference Office by phone at 714.588.8649 or via email to [conference@usenix.org](mailto:conference@usenix.org).

## How to Submit a Paper to the Refereed Track

Papers should be 8 to 12 single-spaced 8.5"x11" pages (about 4000-6000 words), not counting figures and references. Papers longer than 12 pages will not be reviewed. Papers so short as to be considered "extended abstracts" will not receive full consideration.

It is imperative that you contact the USENIX Association office to receive detailed guidelines and suggestions for submitting a quality paper. Please send email to [usenix98authors@usenix.org](mailto:usenix98authors@usenix.org) or telephone 510.528.8649. In addition, specific questions about submissions may be sent to the program chairman via email to [douglis@usenix.org](mailto:douglis@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 26, 1998. Some accepted papers will be shepherded by a program committee member through an editorial review process prior to publication in the Proceedings.

## Where and How to Send Refereed Paper Submissions.

Please send one copy of your manuscript to the program chairman. All submissions will be acknowledged.

**Preferred method:** email (PostScript or ASCII) to:  
[usenix98papers@usenix.org](mailto:usenix98papers@usenix.org)

If you have a MIME-capable mail system, you are encouraged to include your PostScript manuscript as Content-Type: application/postscript, Content-Transfer-Encoding: base64. Important: for PostScript submissions, use only standard PostScript fonts, and format your paper for 8.5 x 11 inches paper. If your paper will not print properly, your submission will be returned. You should attach the cover letter (see below) as a separate MIME enclosure.

**Alternate method:** postal delivery to:  
Fred Douglis  
Room A181  
AT&T Labs—Research  
180 Park Avenue  
Florham Park, NJ 07932-0971  
Telephone: 973-360-8775

In addition, authors must submit the following information (for administrative handling) via email to [usenix98papers@usenix.org](mailto:usenix98papers@usenix.org)

1. The title of the paper and the names of the authors. (Note: authors' 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 paper's abstract.

## Cash Prizes

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

## USENIX Exhibition

In the Exhibition, the emphasis is on serious questions and feedback. More than 75 vendors will demonstrate the features and technical innovations which distinguish their products.

**Vendors:** At USENIX '98, you'll find the "opinion leaders" at the center of their organization's computer operations. Contact:

Cynthia Deno  
USENIX Exhibition Coordinator  
Telephone: 408.335.9445  
Email: [cynthia@usenix.org](mailto:cynthia@usenix.org)

## Registration Information

Materials containing the technical and tutorial programs, registration, and hotel and airfare discounts will be available mid-April 1998. To obtain these materials, send email to [conference@usenix.org](mailto:conference@usenix.org) or telephone 714.588.8649.

## About The USENIX Association

Since 1975 the USENIX Association has provided a forum where the community of engineers, scientists, and technicians working on the cutting edge of the computing world come together to communicate the results of innovation and research.

Visit the USENIX home page:  
<http://www.usenix.org>