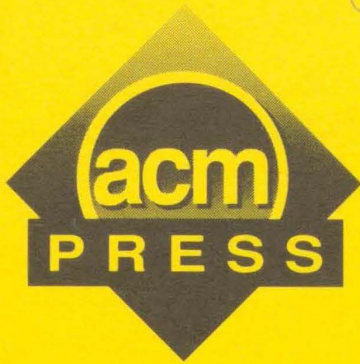


OCT 31 REC'D

|||||
AUTO ***** ALL FOR ADC 200
N312264 06 EXPIRE 0205 00 01 00/007
PC94/017584 /SOPS-10 0036
SERIALS RECEIVING/LIB. CONGRESS
US ACQUISITIONS SECTION
101 INDEPENDENCE AVENUE S.E.
WASHINGTON DC 20540 0002 *



See

OPERATING SYSTEMS REVIEW

A Publication of the
Association for Computing Machinery
Special Interest Group on Operating Systems

Volume 35, Number 5

December, 2001

Proceedings of the

18th ACM Symposium on Operating Systems Principles (SOSP'01)

October 21-24, 2001

Chateau Lake Louise, Banff, Alberta, Canada

OPERATING SYSTEMS REVIEW

A Publication of the ACM Special Interest Group on Operating Systems

Chairperson

William E. Weihl
Akamai Technologies, Inc.
1400 Fashion Island Blvd.
San Mateo, CA 94404 USA
+1-650-627-5259
(bweihl@akamai.com)

Newsletter Editor

William M. Waite
Dept. of Electrical and
Computer Engineering
University of Colorado
Boulder, CO 80309-0425 USA
+1-303-492-7204
(William.Waite@Colorado.edu)

V. Chairperson

Valerie Issarny
INRIA - Rennes
IRISA
Campus de Beaulieu
35042 Rennes Cedex France
+33-2-99-84-7462
(issarny@irisa.fr)

Secretary-Treasurer

David Kotz
Dept. of Computer Science
Dartmouth College
6211 Sudikoff Laboratory
Hanover, NH 03755 USA
+1-603-646-1439
(dfk@cs.dartmouth.edu)

Information Director

Michael Dahlin
Department of Computer Sciences
Campus Mail Code: C0500
University of Texas
Austin, TX 78712 USA
+1-512-471-9549
(dahlin@cs.utexas.edu)

OPERATING SYSTEMS REVIEW is an informal publication of the ACM Special Interest Group on Operating Systems (SIGOPS), whose scope of interest includes: Computer operating systems and architecture for multiprogramming, multiprocessing, and time sharing; resource management; evaluation and simulation; reliability, integrity, and security of data; communications among computing processors; and computer system modeling analysis.

Membership in SIGOPS (at \$15 per annum) is open to ACM members and associate members, and student members (at \$8 per annum); non-ACM members may join also (at \$42 per annum). Non-members of SIGOPS may subscribe to OPERATING SYSTEMS REVIEW at \$30 per year. All SIGOPS members receive OPERATING SYSTEMS REVIEW.

SIGOPS membership application forms are available from ACM Headquarters (or see back cover of this issue), 1515 Broadway, 17th Floor, New York, New York 10036, telephone (212) 869-7440. Changes of address and other matters pertaining to the SIGOPS mailing list should be directed to ACM Headquarters, not to any of the SIGOPS officers.

Contributions to OSR are sent to the editor and should be single spaced and printed on one side of the paper only. Text and diagrams must be contained within a 6.5 inch wide by 8.5 inch high (165mm by 216mm) area with at least one inch (25mm) top and side margins, 1.5 inch (38mm) bottom margin, and be camera-ready (i.e., be an original having sufficient contrast and density for reproduction). All letters to the editor will be considered for publication unless accompanied by a request to the contrary. Except for editorial items, all sources of material appearing in OPERATING SYSTEMS REVIEW will be clearly identified. Items attributed to individuals will ordinarily be interpreted as personal rather than organizational opinions. The technical material in this newsletter is not refereed. **Deadlines for submitting material are the 15th of February, May, August, and November. The SIGOPS conference proceedings will be mailed as the December issue in odd numbered calendar years, and the ASPLOS conference proceedings will be mailed in even numbered calendar years.**

OPERATING SYSTEMS REVIEW (ISSN 0163-5980) is published five times a year (January, April, July, October and December) by the Association for Computing Machinery Inc., 1515 Broadway, New York, NY 10036. Periodicals postage paid at New York, NY 10001, and at additional mailing offices. POSTMASTER: Send address changes to OPERATING SYSTEMS REVIEW, ACM, 1515 Broadway, New York, NY 10036.

Subscriptions: Annual subscription cost of \$12.53 is included in the member dues of \$15.00 (for students cost is included in \$8.00); the non-member annual subscription is \$42.00.

TX 5-490-678

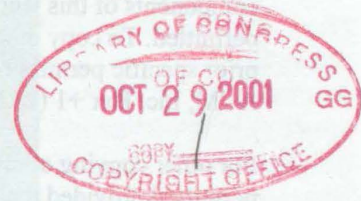


TX0005490678

Proceedings of the 18th ACM Symposium on Operating Systems Principles (SOSP'01)

October 21-24, 2001

Chateau Lake Louise, Banff, Alberta, Canada



Sponsored by ACM SIGOPS

(Association for Computing Machinery Special Interest Group in Operating Systems).

Supported by Microsoft Research, Intel Corporation, QUALCOMM, Mercury Computer Systems,
Hewlett-Packard Labs, Akamai, and Inktomi.



invent



Inktomi

The Association for Computing Machinery
1515 Broadway
New York, N.Y. 10036

Copyright © 2001 by the Association for Computing Machinery, Inc. (ACM). Permission to make digital or hard copies of portions of this work for personal or classroom use is granted without fee provided that the copies are not made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. Copyright for components of this work owned by others than ACM must be honored. Abstracting with credit is permitted. To copy otherwise, to republish, to post on servers, or to redistribute to lists, requires prior specific permission and/or a fee. Request permission to republish from: Publications Dept. ACM, Inc. Fax +1 (212) 869-0481 or E-mail permissions@acm.org.

For other copying of articles that carry a code at the bottom of the first or last page, copying is permitted provided that the per-copy fee indicated in the code is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, +1-978-750-8400, +1-978-750-4470 (fax).

Notice to Past Authors of ACM-Published Articles

ACM intends to create a complete electronic archive of all articles and/or other material previously published by ACM. If you have written a work that was previously published by ACM in any journal or conference proceedings prior to 1978, or any SIG Newsletter at any time, and you do NOT want this work to appear in the ACM Digital Library, please inform permissions@acm.org, stating the title of the work, the author(s), and where and when published.

ACM ISBN: 1-58113-389-8

Additional copies may be ordered prepaid from:

ACM Order Department
P.O. Box 11405
New York, N.Y. 10286-1405

Phone: 1-800-342-6626
(U.S.A. and Canada)
+1-212-626-0500
(All other countries)
Fax: +1-212-944-1318
E-mail: acmhelp@acm.org

ACM Order Number: 534010

Printed in the U.S.A.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.