Join us in Seattle, WA, November 6–8, 2006, for innovative, exciting work in the systems area. The 7th USENIX Symposium on Operating Systems Design and Implementation (OSDI ’06) brings together professionals from academic and industrial backgrounds in what has become a premier forum for discussing the design, implementation, and implications of systems software. The OSDI Symposium emphasizes both innovative research and quantified or illuminating experience.

OSDI ’06 is co-located with the 3rd Workshop on Real, Large Distributed Systems (WORLDS ’06), which will take place on November 5. The Second Workshop on Hot Topics in System Dependability (HotDep ’06) will be held on November 8, immediately following OSDI ’06. See http://www.usenix.org/events for details.

REGISTRATION / HOTEL

TECHNICAL SESSION REGISTRATION FEES
Member: $825
Nonmember: $960*
Full-time Student Member: $290
Full-time Student Nonmember: $330*

Early Bird Rates. Deadline is October 16.
Member: $675
Nonmember: $810*
Full-time Student Member: $290
Full-time Student Nonmember: $330*

*Nonmember rates include a one-year USENIX membership.

HOTEL INFORMATION
Hotel Discount Reservation Deadline is October 16, 2006
Red Lion Hotel on 5th Avenue
Rate is $139 single/double plus 15.6% tax

THANKS TO OUR SPONSORS
Amazon.com
Ask.com
Google
HP
IBM
Infosys
Intel
Microsoft Research
The Americas

SYMPOSIUM ORGANIZERS

PROGRAM CO-CHAIRS
Brian Bershad, University of Washington
Jeff Mogul, Hewlett-Packard Labs

PROGRAM COMMITTEE
Martin Abadi, University of California, Santa Cruz, and Microsoft Research
Brad Calder, University of California, San Diego, and Microsoft
Brad Chen, Intel
Peter Druschel, Max Planck Institute for Software Systems
Garth Gibson, Carnegie Mellon University and Panasas
Derek McAuley, XenSource Inc.
Rob Pike, Google Inc.
Mema Roussopoulos, Harvard University
Dawn Song, Carnegie Mellon University
Chandu Thekkath, Microsoft Research
Robbert van Renesse, Cornell University
Jim Waldo, Sun Microsystems, Inc.
Bill Weihl, Google Inc.

POSTER SESSION CHAIR
Mema Roussopoulos, Harvard University

WORK-IN-PROGRESS (WIP) SESSION CHAIR
Jim Waldo, Sun Microsystems, Inc.

STEERING COMMITTEE
Eric Brewer, University of California, Berkeley
Peter Chen, University of Michigan, Ann Arbor
Mike Jones, Microsoft
Jay Lepreau, University of Utah
Ellie Young, USENIX
Monday, November 6

8:45 a.m.–9:00 a.m.  Monday
OPENING REMARKS AND AWARDS

9:00 a.m.–10:30 a.m.  Monday
LOCAL STORAGE
Rethink the Sync
Edmund B. Nightingale, Kaushik Veeraraghavan,
Peter M. Chen, and Jason Flinn, University of Michigan

Type-Safe Disks
Gopalan Sivathanu, Swaminathan Sundararaman,
and Ezre Zadok, Stony Brook University

Stasis: System for Adaptable, Transactional Storage
Russell Sears and Eric Brewer, University of California, Berkeley

10:30 a.m.–11:00 a.m.  Monday  Break

11:00 a.m.–12:30 p.m.  Monday
Runtime Reliability Mechanisms
SafeDrive: Safe and Recoverable Extensions Using Language-Based Techniques
Feng Zhou, Jeremy Condit, Zachary Anderson,
and Ilya Bagrak, University of California, Berkeley;
Rob Ennals, Intel Research, Cambridge, UK;
Matthew Harren, George C. Necula, and Eric Brewer,
University of California, Berkeley

XFI: Software Guards for System Address Spaces
Ulfar Erlingsson and Martin Abadi, Microsoft Research;
Silicon Valley)

BrowsingShield: Vulnerability-Driven Filtering of Dynamic HTML
Charles Reis, University of Washington; John Dunagan,
Helien J. Wang, and Opher Dubrovsky,
Microsoft; Saher Esmeir, Technion

12:30 p.m.–2:00 p.m.  Monday  Lunch (on your own)

2:00 p.m.–3:30 p.m.  Monday
OS IMPLEMENTATION STRATEGIES
Operating System Profiling via Latency Analysis
Nikolai Joukov, Avishay Traeger, and Rakesh Iyer,
Stony Brook University; Charles P. Wright, IBM T. J. Watson Research Center;
Erez Zadok, Stony Brook University

CRAMM: Virtual Memory Support for Garbage-Collected Applications
Ting Yang and Emery D. Berger, University of Massachusetts Amherst;
Scott F. Kaplan, Amherst College; J. Eliot B. Moss, University of Massachusetts Amherst

Flight Data Recorder: Monitoring Persistent-State Interactions to Improve Systems Management
Chad Verbowski, Emre Kiciman, Arunvijay Kumar,
and Brad Daniels, Microsoft Research; Shan Lu,
University of Illinois at Urbana-Champaign; Juhan Lee,
Microsoft MSN, Yi-Min Wang, Microsoft Research;
Roussii Roussév, Florida Institute of Technology

3:30 p.m.–4:00 p.m.  Monday  Break

4:00 p.m.–5:30 p.m.  Monday
WORK-IN-PROGRESS REPORTS (WiPs)

7:00 p.m.–8:30 p.m.  Monday  Poster Session & Reception
Co-Sponsored by USENIX and Google

8:30 p.m.–11:00 p.m.  Monday  Birds-of-a-Feather Sessions

Tuesday, November 7

9:00 a.m.–10:30 a.m.  Tuesday
PROGRAM ANALYSIS TECHNIQUES
EXPLORDE: A Lightweight, General System for Finding Serious Errors in Storage Systems
Junfeng Yang, Can Sar, and Dawson Engler,
Stanford University

Securing Software by Enforcing Data-flow Integrity
Miguel Castro, Microsoft Research; Manuel Costa,
Microsoft Research and University of Cambridge;
Tim Harris, Microsoft Research

From Uncertainty to Belief: Inferring the Specification Within
Ted Kremenek, Stanford University; Godmar Back,
Virginia Polytechnic Institute and State University;
Paul Twosey, Dawson Engler, and Andrew Ng,
Stanford University

10:30 a.m.–11:00 a.m.  Tuesday  Break

11:00 a.m.–12:30 p.m.  Tuesday
DISTRIBUTED SYSTEM INFRASTRUCTURE
HQ Replication: A Hybrid Quorum Protocol for Byzantine Fault Tolerance
James Cowling, Daniel Myers, and Barbara Liskov,
Massachusetts Institute of Technology; Rodrigo Rodrigues,
INESC-ID and Instituto Superior Tecnico;
Luiba Shiria, Brandeis University

BAR Gossip
Harry Li, Allen Clement, Edmund Wong, Jeff Napper,
Indrajit Roy, Lorenzo Alvisi, and Michael Dahlin,
University of Texas at Austin

Bigtable: A Distributed Storage System for Structured Data
Fay Chang, Jeffrey Dean, Sanjay Ghemawat,
Wilson C. Hsieh, Deborah A. Wallach, Mike Burrows,
Tushar Chandra, Andrew Fikes, and Robert E. Gruber,
Google, Inc.

12:30 p.m.–2:00 p.m.  Tuesday  Symposium Luncheon
Presentation of 2006 ACM/SIGOPS Mark Weiser Award

2:00 p.m.–3:30 p.m.  Tuesday
DISTRIBUTED SYSTEMS OF LITTLE THINGS
EnsembleBlue: Integrating Distributed Storage and Consumer Electronics
Daniel Peek and Jason Flinn, University of Michigan

Persistent Personal Names for Globally Connected Mobile Devices
Bryan Ford, Jacob Strauss, Chris Lesniewski-Laa,
Sean Rhea, Frans Kaashoek, and Robert Morris,
Massachusetts Institute of Technology

A Modular Network Layer for Sensornets
Cheng Tien Ee, Rodrigo Fonseca, Sukun Kim,
Daekyeong Moon, and Arsalan Tavakoli,
University of California, Berkeley; David Culler,
Arch Rock Corporation and University of California, Berkeley;
Scott Shenker, ICSI and University of California,
Berkeley; Ion Stoica, University of California, Berkeley

3:30 p.m.–4:00 p.m.  Tuesday  Break

4:00 p.m.–5:30 p.m.  Tuesday
OPERATING SYSTEM STRUCTURE
Making Information Flow Explicit in HiStar
Nickolai Zeldovich and Silas Boyd-Wickizer,
Stanford University; Eddie Kohler, University of California, Los Angeles;
David Mazières, Stanford University

Splitting Interfaces: Making Trust Between Applications and Operating Systems Configurable
Richard Ta-Min, Lionel Litty, and David Lie,
University of Toronto

Connection Handoff Policies for TCP Offload Network Interfaces
Hyong-youb Kim and Scott Rixner, Rice University

6:30 p.m.–10:30 p.m.  Tuesday  Reception
Museum of Flight, Sponsored by Microsoft Research

Wednesday, November 8

9:00 a.m.–10:30 a.m.  Wednesday
DISTRIBUTED STORAGE AND LOCKING
Ceph: A Scalable, High-Performance Distributed File System
Sage Weil, Scott Brandt, Ethan Miller, Darrell Long,
and Carlos Maltzahn, University of California, Santa Cruz

Distributed Directory Service in the Farsite File System
John Douceur and Jon Howell, Microsoft Research

The Chubby Lock Service for Loosely-coupled Distributed Systems
Mike Burrows, Google, Inc.

10:30 a.m.–11:00 a.m.  Wednesday  Break

11:00 a.m.–12:30 p.m.  Wednesday
LARGE DISTRIBUTED SYSTEMS
Experiences Building PlanetLab
Larry Peterson, Andy Bavier, Marc Fiuczynski,
and Steve Muir, Princeton University

iPlane: An Information Plane for Distributed Services
Harsha Madhyastha, Tomas Isdal, Michael Platek,
Colin Dixon, Thomas Anderson, and Arvind Krishnamurthy,
University of Washington; Arun Venkataramani,
University of Massachusetts Amherst

Fidelity and Yield in a Volcano Monitoring Sensor Network
Geoff Werner-Allen and Konrad Lorincz,
Harvard University; Jeff Johnson, University of New Hampshire; Jonathan Lees,
University of North Carolina; Matt Walsh, Harvard University

7:00 p.m.–8:30 p.m.  Wednesday  Poster Session & Reception
Museum of Flight, Sponsored by Microsoft Research

3:30 p.m.–4:00 p.m.  Wednesday

4:00 p.m.–5:30 p.m.  Wednesday
OPERATING SYSTEM STRUCTURE
Making Information Flow Explicit in HiStar
Nickolai Zeldovich and Silas Boyd-Wickizer,
Stanford University; Eddie Kohler, University of California, Los Angeles;
David Mazières, Stanford University

Splitting Interfaces: Making Trust Between Applications and Operating Systems Configurable
Richard Ta-Min, Lionel Litty, and David Lie,
University of Toronto

Connection Handoff Policies for TCP Offload Network Interfaces
Hyong-youb Kim and Scott Rixner, Rice University

6:30 p.m.–10:30 p.m.  Wednesday  Reception
Museum of Flight, Sponsored by Microsoft Research