Join us in San Diego, CA, December 8–10, 2008, for innovative, exciting work in the systems area. The OSDI symposium focuses on the design, implementation, and implications of systems software. With 26 high-quality papers selected, the 2008 program includes:

- Refereed papers representing a diverse range of hot research areas including cloud computing, OS architecture, monitoring, concurrency issues, and more
- A poster session where attendees can discuss emerging ideas in operating systems design and implementation
- Work-in-Progress (WiP) presentations on novel ideas in systems research

Don’t miss this inspiring symposium covering the most innovative operating systems research.

Check out these co-located workshops:

- Fourth Workshop on Hot Topics in System Dependability (HotDep ’08), Sunday, December 7
- First USENIX Workshop on the Analysis of System Logs (WASL ’08), Sunday, December 7
- Workshop on Power Aware Computing and Systems (HotPower ’08), Sunday, December 7
- Workshop on Supporting Diversity in Systems Research (Diversity ’08), Sunday, December 7
- First Workshop on I/O Virtualization (WIOV ’08), Wednesday–Thursday, December 10–11
- Third Workshop on Tackling Computer Systems Problems with Machine Learning Techniques (SysML08), Thursday, December 11

http://www.usenix.org/events/osdi08/workshops.html

REGISTRATION/HOTEL INFORMATION

Registration Fees

| 3 days of technical sessions | $875 |

If you are not a member of USENIX, ACM SIGOPS, EurOpen.SE, or NUUG, add $120 to your technical sessions fees.

Registration Fee for Full-Time Students: $350

Students who are not members of USENIX, add $45 to your technical sessions fees.

Hotel Information

Paradise Point Resort
1404 Vacation Road
San Diego, CA 92109
Tel: (800) 344-2626
Check www.usenix.org/events/osdi08/hotel.html for more details.

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Monday, December 8

8:45 a.m.–9:00 a.m.  Monday  Opening Remarks  Program Co-Chairs: Richard Draves, Microsoft Research; Robbert van Renesse, Cornell University

9:00 a.m.–10:30 a.m.  Monday  Cloud Computing  DryadLINQ: A System for General-Purpose Distributed Data-Parallel Computing Using a High-Level Language  Yuan Yu, Michael Isard, Dennis Feitelson, and Mihai Budiu, Microsoft Research Silicon Valley; Ulfar Elingson, Reykjavik University, Iceland, and Microsoft Research Silicon Valley; Pradeep Kumar Gunda and Jon Currey, Microsoft Research Silicon Valley

Everest: Scaling Down Peak Loads Through I/O Off-Loading  Dushyanth Narayanan, Austin Donnelly, Eno Thereska, Sameh Elmket, and Antony Rowstron, Microsoft Research Cambridge, United Kingdom

Improving MapReduce Performance in Heterogeneous Environments  Matei Zaharia, Andy Konwinski, Anthony D. Joseph, Randy Katz, and Ion Stoica, University of California, Berkeley

10:30 a.m.–11:00 a.m.  Monday  Break

11:00 a.m.–12:30 p.m.  Monday  OS Architecture  Core: An Operating System for Many Cores  Silas Bayd-Wicizer, Massachusetts Institute of Technology; Haibo Chen, Rong Chen, and Yandong Mao, Fudan University; Frans Kaashoek, Robert Morris, and Alessky Pexterey, Massachusetts Institute of Technology; Lex Steen and Ming Wu, Microsoft Research Asia; Yuehua Dai, Xi Yan Jiaotong University; Yang Zhang, Massachusetts Institute of Technology; Zheng Zhang, Microsoft Research Asia

CuriOS: Improving Reliability through Operating System Structure  Francis M. David, Elick M. Chan, Jeffrey C. Carlyle, and Roy H. Campbell, University of Illinois at Urbana-Champaign

Redline: First Class Support for Interactivity in Commodity Operating Systems  Ting Yang, Tongpeng Liu, and Emery D. Berger, University of Massachusetts Amherst; Scott F. Kaplan, Amherst College; J. Eliot B. Moss, University of Massachusetts Amherst

12:30 p.m.–2:00 p.m.  Lunch  Monday

2:00 p.m.–3:30 p.m.  Monday  Network Imprecision: A New Consistency Metric for Scalable Monitoring  Navendu Jain, Microsoft Research; Prince Mahajan and Dmitry Kit, University of Texas at Austin; Praween Yalagandula, HP Labs; Mike Dahlin and Yin Zhang, University of Texas at Austin

Lightweight, High-Resolution Monitoring for Troubleshooting Production Systems  Sapan Bhata, Princeton University; Abhishek Kumar, Google Inc.; Marc E. Fiszczynski and Larry Peterson, Princeton University

Automating Network Application Dependency Discovery: Experiences, Limitations, and New Solutions  Xu Chen, University of Michigan; Ming Zhang, Microsoft Research; Z. Morley Mao, University of Michigan; Paramvir Bahl, Microsoft Research

3:30 p.m.–4:00 p.m.  Monday  Work-in-Progress Reports (WiPs)  The Work-in-Progress reports (WiPs) session offers short presentations about research in progress, new results, or timely topics.

4:00 p.m.–5:30 p.m.  Monday  Work-in-Progress Reports (WiPs) (continued)

5:30 p.m.–6:00 p.m.  Monday  Inauguration of the Jay Lepreau Award for the Best Paper Presented at the 8th OSDI  6:30 p.m.–10:00 p.m.  Dave & Buster’s

Symposium Reception  Monday  Join fellow attendees in a rousing game of skeeball, test your motor skills in the many driving games, or just sit back and enjoy dinner and conversation. Dave & Buster’s offers a wide array of fun activities. Don’t miss out on the chance to catch up with colleagues in a friendly environment. See you there!

Tuesday, December 9

9:00 a.m.–10:30 a.m.  Tuesday  File Systems  SQCK: A Declarative File System Checker  Haryadi S. Sani, Abhishek Rajimwale, Andrea C. Arsac-Dusseau, and Remzi H. Arpaci-Dusseau, University of Wisconsin, Madison

Transactional Flash  Vijayan Prabhakaran, Thomas L. Rodeheffer, and Lidong Zhou, Microsoft Research, Silicon Valley

Avoiding File System Micromanagement with Range Writes  Ashok Anand and Sayandeep Sen, University of Wisconsin, Madison; Andrew Kroukou, University of California, Berkeley; Flavio Junqueira, University of California, San Diego; Sangmin Lee, University of Wisconsin, Madison; Diwaker Gupta, University of California, Berkeley; Ashok Anand and Sayandeep Sen, University of Wisconsin, Madison; Andrew Kroukou, University of California, Berkeley; Flavio Junqueira, University of California, San Diego; Sangmin Lee, University of Wisconsin, Madison

10:30 a.m.–11:00 a.m.  Tuesday  Break

11:00 a.m.–12:30 p.m.  Tuesday  Programming Language Techniques  Binary Translation Using Peephole Superoptimizers  Satish Bansi and Alex Aken, Stanford University

R2: An Application-Level Kernel for Record and Replay  Zhenyu Guo, Microsoft Research Asia; Xi Wang, Tsinghua University; Jian Tang and Xuezhehong Liu, Microsoft Research Asia; Zhilei Xu, Tsinghua University; Ming Wu, Microsoft Research Asia; M. Frans Kaashoek, MIT CSL; Zheng Zhang, Microsoft Research Asia

KLEE: Unassisted and Automatic Generation of High-Coverage Tests for Complex Systems Programs  Cristian Cadar, Daniel Dunbar, and Dawson Engeler, Stanford University

12:30 p.m.–2:00 p.m.  Lunch  Tuesday

2:00 p.m.–3:30 p.m.  Tuesday  Security  Hardware Enforcement of Application Security Policies Using Tagged Memory  Nickolai Zeldovich, Massachusetts Institute of Technology; Hari Kannan, Michael Dalton, and Christos Kozyrakis, Stanford University

Device Driver Safety Through a Reference Validation Mechanism  Dan Williams, Patrick Reynolds, Kevin Walsh, Eimin Sun, and Fred B. Schneider, Cornell University

2:00 p.m.–3:00 p.m. (continued) Tuesday  Digging for Data Structures  Anthony Cozzie, Frank Stratton, Hui Xue, and Samuel T. King, University of Illinois at Urbana-Champaign

3:30 p.m.–4:00 p.m.  Tuesday  Dealing with Concurrency Bugs  Finding and Reproducing Heisenbugs in Concurrent Programs  Madanlal Musuvathi, Shaz Qadeer, and Thomas Ball, Microsoft Research; Gerard Basler, ETH Zurich; Piranamayagam Arumugam Nairan, University of Wisconsin, Madison; Iulian Neamtiu, University of California, Riverside

Gadara: Dynamic Deadlock Avoidance for Multithreaded Programs  Yin Wang, University of Michigan and Hewlett-Packard Laboratories; Terence Kelly, Hewlett-Packard Laboratories; Arjun Nathanal Kudlur, Stéphane Lafontaine, and Scott Mahlke, University of Michigan

Deadlock Immunity: Enabling Systems to Defend Against Deadlocks  Horia Iulian and Xiangyi Tang, University of Washington, Seattle; Cristian Zamfir, and George C. Can-

dea, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

6:00 p.m.–7:30 p.m.  Poster Session and Happy Hour  Tuesday  The list of accepted posters is available at http://www.usenix.org/events/osdi08/posters.html.

Wednesday, December 10

9:00 a.m.–10:30 a.m.  Wednesday  Various Good Things  Difference Engine: Harnessing Memory Redundancy in Virtual Machines  Dwaker Gupta, University of California, San Diego; Sangmin Lee, University of Texas at Austin; Michael Vrabie, Stefan Savage, Alex C. Snoeren, George Varghese, Geoffrey M. Voelker, and Amin Vahdat, University of California, San Diego

Quanto: Tracking Energy in Networked Embedded Systems  Rodrigo Fonseca, University of California, Berkeley, and Yahoo! Research; Prabal Dutta, University of California, Berkeley; Philip Lemon, Stanford University; Ion Stoica, University of California, Berkeley

Leveraging Legacy Code to Deploy Desktop Applications on the Web  John R. Douceur, Jeremy Elson, Jon Howell, and Jacob R. Lorch, Microsoft Research

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

11:00 a.m.–noon  Wednesday  Wide-Area Distributed Systems  FlightPath: Obedience vs. Choice in Cooperative Services  Harry C. L and Allen Clement, University of Texas at Austin; Mina Marchetti, University of Modena and Reggio Emilia; Manos Kapritsos, Luke Robinson, Lorenzo Alvino, and Mike Dahlin, University of Texas at Austin

Mencius: Building Efficient Replicated State Machine for WANs  Yanhua Mao, University of California, San Diego; Flavio P. Junqueira, Yahoo! Research Barcelona; Keith Marzullo, University of California, San Diego

4:00 p.m.–5:30 p.m.  Wednesday  Break

4:00 p.m.–5:30 p.m.  Wednesday  Digging for Data Structures  Anthony Cozzie, Frank Stratton, Hui Xue, and Samuel T. King, University of Illinois at Urbana-Champaign

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