Call For Participation

17th ACM Symposium on Operating Systems Principles (SOSP'99)

December 12-15, 1999
Kiawah Island Resort, near Charleston SC, USA

http://www.diku.dk/sosp99, http://www.cs.dartmouth.edu/SOSP99

The biannual ACM Symposium on Operating System Principles is the world's premier forum for bringing together researchers, developers, programmers, vendors and educators of operating system technology. Academic and industrial participants present research and experience papers that cover the full range of theory and practice.

SOSP 17 continues the tradition of previous conferences, focusing on the design, implementation, analysis, and deployment of operating systems. It includes a broad set of high quality, relevant, interesting papers, covering a wide range of topics, platforms, and environments. We chose research that advances the state of the art into new territory, continues a significant research dialogue, or reflects on practical applications of the community's knowledge. Many contributions emphasize the OS community's contribution to the closely related fields of computer architecture, data communications, programming systems and languages, and applications. The Symposium attracts attendees with diverse backgrounds, and we explicitly present papers not only in the "traditional core" of the OS field, but also in the interface to these areas and others.

There will be a poster session and a work-in-progress session; in each case presenters will be chosen from brief proposals submitted to the program committee. Details will be announced later.

Location: The Symposium will be held at the beautiful Kiawah Island Resort, an exquisite beach-front getaway. Participants will stay in a cluster of villas near the conference center, a short walk from the beach. Kiawah's miles-long ocean beach is one of the finest in the world. Its golf courses are world-class. The island is laced with miles of paved bike paths, and bike rentals are available. The historic city of Charleston is approximately 30 minutes away by car. Bring your family!

Registration information are available at the web site. Early registration deadline November 8.

Provisional list of papers

Separating key management from file system security, D. Mazières, M. Kaminsky, M. F. Kaashoek, E. Witchel (MIT Laboratory for Computer Science)

Building reliable, high-performance communication systems from components, X. Liu, C. Kreitz, R. van Renesse, J. Hickey+, M. Hayden*, K. Birman, R. Constable (Cornell University, *California Institute of Technology and +COMPAQ Systems Research Center)

Progress-based regulating of low-importance processes, J.R. Douceur, W.J. Bolosky (Microsoft Research)

EMERALDS: a small-memory real-time microkernel, K.M. Zuberi, P. Pillai, K.G. Shin (University of Michigan)

Integrating segmentation and paging protection for safe, efficient and kernel/user extensions, T. Chiueh, G. Venkitachalam, P. Pradhan (SUNY at Stony Brook)

On the scale and performance of cooperative web proxy caching, A. Wolman, G.M. Voelker, N. Sharma, N. Cardwell, A. Karlin, H. M. Levy (University of Washington)

Elephant: the file system that never forgets, D.J. Santry, M.J. Feeley, N.C. Hutchinson, A.C. Veitch* (University of British Columbia and *HP Laboratories)

Energy-aware adaptation for mobile applications, J. Flinn, M. Satyanarayanan (CMU)

Active network vision and reality: lessons from a capsule-based system, D. Wetherall (University of Washington)

The interactive performance of SLIM: a stateless, thin-client architecture, B.K. Schmidt, M.S. Lam, J. D. Northcutt* (Stanford University and *Sun Microsystems Laboratories)

EROS: a fast capability system, J.S. Shapiro*, J.M. Smith, D.J. Farber (University of Pennsylvania and *IBM T.J. Watson Research Center)

Soft timers: efficient microsecond software timer support for network processing M. Aron, P. Druschel (Rice University)

File system usage in Windows NT 4.0, W. Vogels (Cornell University)

The design and implementation of an intentional naming system, W. Adjie-Winoto, E. Schwartz, H. Balakrishnan, J. Lilley (MIT Laboratory for Computer Science)

Distributed virtual machines: a factored service architecture for Java, E.G. Sirer, R.Grimm, A.J. Gregory, B.N. Bershad (University of Washington)

Cellular Disco: resource management using virtual clusters on shared-memory multiprocessors, K. Govil, D. Teodosiu*, Y. Huang, M. Rosenblum (Stanford University and *HP Laboratories)

The Click modular router, R. Morris, E. Kohler, J. Jannotti, M. F. Kaashoek (MIT Laboratory for Computer Science)

Manageability, availability and performance in Porcupine: a highly-scalable cluster-based mail service, Y. Saito, B.N. Bershad, H.M. Levy (University of Washington)

Borrowed-Virtual-Time (BVT) scheduling: supporting latency-sensitive threads in a general-purpose scheduler, K.J. Duda, D.R. Cheriton (Stanford University)

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