8th USENIX Symposium on Operating Systems Design and Implementation

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Monday, December 8

Cloud Computing

DryadLINQ: A System for General-Purpose Distributed Data-Parallel Computing Using a High-Level Language
Yuan Yu, Michael Isard, Dennis Fetterly, and Mihai Budiu, Microsoft Research Silicon Valley; Úlfar Erlingsson, 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 Elnikety, 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

OS Architecture

Corey: An Operating System for Many Cores
Silas Boyd-Wickizer, Massachusetts Institute of Technology; Haibo Chen, Rong Chen, and Yandong Mao, Fudan University; Frans Kaashoek, Robert Morris, and Aleksey Pesterev, Massachusetts Institute of Technology; Lex Stein and Ming Wu, Microsoft Research Asia; Yuehua Dai, Xi'an Jiaotong University; Yang Zhang, Massachusetts Institute of Technology; Zheng Zhang, Microsoft Research Asia

CuriOS: Improving Reliability through Operating System Structure
Francis M. David, Ellick 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, Tongping Liu, and Emery D. Berger, University of Massachusetts Amherst; Scott F. Kaplan, Amherst College; J. Eliot B. Moss, University of Massachusetts Amherst

Monitoring

Network Imprecision: A New Consistency Metric for Scalable Monitoring
Navendu Jain, Microsoft Research; Prince Mahajan and Dmitry Kit, University of Texas at Austin; Praveen Yalagandula, HP Labs; Mike Dahlin and Yin Zhang, University of Texas at Austin

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

Automating Network Application Dependency Discovery: Experiences, Limitations, and New Solutions
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