

JOHN BENT

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Research Interests

Storage Systems, Operating Systems, Parallel and Distributed Systems, Peer-to-peer Systems, Grid Computing.

Education

Department of Computer Sciences, University of Wisconsin, Madison 1998-present
Ph.D., *anticipated May 2005*.
M.S., May 2001.
Advisers: Andrea Arpaci-Dusseau, Remzi Arpaci-Dusseau, Miron Livny.

Department of Anthropology, Amherst College 1991-1995
B.A. in Anthropology.

Refereed Conference Publications

- [1] Timothy E. Denehy, John Bent, Florentina I. Popovici, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. Deconstructing Storage Arrays. In *Proceedings of the 11th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS XI)*, Boston, Massachusetts, October 2004.
- [2] John Bent, Doug Thain, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Miron Livny. Explicit Control in a Batch-Aware Distributed File System. In *Proceedings of the 1st Symposium on Networked Systems Design and Implementation (NSDI '04)*, pages 365–378, San Francisco, California, March 2004.
- [3] Doug Thain, John Bent, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Miron Livny. Pipeline and Batch Sharing in Grid Workloads. In *Proceedings of High-Performance Distributed Computing (HPDC-12)*, Seattle, WA, June 2003.
- [4] John Bent, Venkateshwaran Venkataramani, Nick Leroy, Alain Roy, Joseph Stanley, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Miron Livny. Flexibility, Manageability, and Performance in a Grid Storage Appliance. In *Proceedings of High-Performance Distributed Computing (HPDC-11)*, pages 3–12, Edinburgh, Scotland, July 2002.
- [5] Nathan C. Burnett, John Bent, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. Exploiting Gray-Box Knowledge of Buffer-Cache Contents. In *Proceedings of the USENIX Annual Technical Conference (USENIX '02)*, pages 29–44, Monterey, CA, June 2002.
- [6] Doug Thain, John Bent, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Miron Livny. Gathering at the Well: Creating Communities for Grid I/O. In *SC 2001*, pages 1–10, Denver, Colorado, November 2001.
- [7] Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, John Bent, Brian Forney, Sambavi Muthukrishnan, Florentina Popovici, and Omer Zaki. Manageable Storage via Adaptation in WiND. In *International Symposium on Cluster Computing and the Grid (CCGrid '01)*, pages 1–9, Brisbane, Australia, May 2001.

Book Chapters

- [1] John Bent, Venkateshwaran Venkataramani, Nick Leroy, Alain Roy, Joseph Stanley, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Miron Livny. NeST - A Grid Enabled Storage Appliance. In Jan Weglarz, Jarek Nabrzyski, Jennifer Schopf, and Maciej Stroinski, editors, *Grid Resource Management*, chapter 22. Kluwer Academic Publishers, June 2003.

Technical Reports

- [1] John Bent, Douglas Thain, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Miron Livny. Coping with BAD Users. Technical Report CS 1517, University of Wisconsin, Madison, 2004.
- [2] John Bent, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, and Miron Livny. Migratory File Services for Scientific Applications. Technical Report CS 1460, University of Wisconsin, Madison, 2002.
- [3] Florentina I. Popovici, John Bent, Brian C. Forney, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. Datamation 2001: A Sorting Odyssey. Technical Report CS 1444, University of Wisconsin, Madison, 2002.

Conference Presentations

- [1] Explicit Control in the Batch-Aware Distributed File System. *NSDI '04*, March 2004.
- [2] Pipeline and Batch Sharing in Grid Workloads. *HPDC 12*, July 2003.
- [3] Flexibility, Manageability, and Performance in a Grid Storage Appliance. *HPDC 11*, July 2002.
- [4] Gathering at the Well: Creating Communities for Grid I/O. *SC 2001*, November 2001.

Invited Lectures

- [1] Coordinated Data and CPU Scheduling in Grid Computing. *Information and Computing Sciences Division, Lawrence Berkeley Laboratory*, August 2003.
- [2] Lot Management in the NeST Storage Appliance. *Data Workshop: GlobusWorld*, January 2003.
- [3] Panel Discussion: Data Management in the Grid (with 3 others). *Data Workshop: GlobusWorld*, January 2003.
- [4] Globus Tutorial: Grid Computing with Condor (with Douglas Thain). *Global Grid Forum 5*, July 2002.
- [5] NeST - A Status Report. *Condor/Paradyn Week*, March 2002.
- [6] Storage Appliances for the Grid. *Wisconsin Operating Systems Seminar*, October 2002.
- [7] Flexible, Commodity Storage Appliances. *Condor/Paradyn Week*, March 2001.

Selected Course Projects

- [1] Madhu Seshadri, John Bent, and Tevfik Kosart. Network Processors: Guiding Design Through Analysis. Advanced Computer Architecture with Mikko Lipasti, May 2001.
- [2] John Bent. A Survey and Implementation of Loop Fusion. Construction of Compilers with Charles Fischer, December 2000.
- [3] John Bent and Gregory Bronner. An Examination of Incremental Checkpointing in Condor. Advanced Operating Systems with Remzi Arpaci-Dusseau, May 2000.
- [4] John Bent, Trey Cain, and Brandon Schwartz. Design and Implementation of a Reliable Multicast Network. Introduction to Networking with Larry Landweber, December 1999.

Honors and Awards

Datamation World Record	2002
Nominated as Most Outstanding Graduate Teaching Assistant	1999
Selected as Volunteer Trainer for incoming Peace Corps Volunteers	1996

Teaching Experience

Elementary Programming for Engineers (CS-110)	Fall 1998 (4.52)
Elementary Programming for Engineers (CS-110)	Spring 1999 (4.36)

Volunteer Service

Operating Systems Seminar Coordinator (with Tim Denehy)	2003-present
Youth Soccer Coach	1998-present
United States Peace Corps Volunteer, Republic of Palau	1995-1997

Miscellaneous experience

Legal assistant; subsistence spear-gun fisher; betel tree climber; chicken factory lineworker; rugby team president; dishwasher; camp counselor; daycare worker; soccer coach.

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References

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