

## Systems and Storage Conference - Program

### SYSTOR 2010

Day 1 – May 24, 2010

<p><b>09:00</b> Registration - Lobby of IBM Haifa building</p> <p><b>09:30</b> SYSTOR '10 Welcome Remarks</p> <p><b>10:00</b> <b>Keynote Talk: Many-core Computing: A Disruptive Technology Enabling Low-cost, Low-power Desktop Supercomputing</b> <i>David Kaeli, Northeastern University</i></p> <p><b>11:00</b> Coffee Break</p> <p><b>Session 1.1: Storage &amp; Virtualization - Chair: Eitan Bachmat, Ben-Gurion University</b></p> <p><b>11:30</b> Using Machine Learning Techniques to Enhance the Performance of an Automatic Backup and Recovery System <i>Amir Ronen, Dan Pelleg (IBM Research - Haifa), and Eran Raichstein (IBM Software Group)</i></p> <p><b>12:00</b> Optimizations of LFS with Slack Space Recycling and Lazy Indirect Block Update <i>Yongseok Oh, Donghee Lee (University of Seoul), Jongmoo Choi (Dankook University), Eunsam Kim, and Sam H. Noh (Hongik University)</i></p> <p><b>12:30</b> A New Approach to File System Cache Writeback of Application Data <i>Sorin Faibish, Peter Bixby, John Forecast, Philippe Armangau, and Sitaram Pawar (EMC Corp.)</i></p>	<p><b>13:00</b> Design and Implementation of a Generic Resource Sharing Virtual Time Dispatcher <i>Tal Ben-Nun (Hebrew University), Yoav Etsion (Barcelona Supercomputer Center), and Dror G. Feitelson (Hebrew University)</i></p> <p><b>13:30</b> Lunch</p> <p><b>Session 1.2: Workload-driven Optimization - Chair: Idit Keidar, Technion</b></p> <p><b>14:30</b> Empirical Quantification of Opportunities for Content Adaptation in Web Servers <i>Michael Gopshtein and Dror G. Feitelson (Hebrew University)</i></p> <p><b>15:00</b> Scalability Limitations when Running a Java Web Server on a Chip Multiprocessor <i>Takeshi Ogasawara (IBM Research - Tokyo)</i></p> <p><b>15:30</b> Scalable Performance of System S for Extract-Transform-Load Processing <i>Toyotaro Suzumura, Toshiaki Yasue, and Tamiya Onodera (IBM Research - Tokyo)</i></p> <p><b>16:00</b> <b>Student Poster Session</b> <b>Refreshments will be served.</b></p>
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## Systems and Storage Conference - Program

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Day 2 – May 25, 2010

<p><b>09:00</b> Registration - Hecht Auditorium, Haifa University</p> <p><b>09:30</b> <b>Keynote Talk: Reliable Distributed Storage</b> <i>Idit Keidar, Technion</i></p> <p><b>10:30</b> Coffee Break</p> <p><b>Session 2.1: Parallel Programming - Chair: Erez Zadok, Stony Brook University</b></p> <p><b>11:00</b> HparC: A Mixed Nested Shared Memory and Message Passing Programming Style Intended for Grid <i>Yosi Ben-Asher, Dimitry Giver, (Haifa University), Gadi Haber (IBM Research - Haifa), and Gil Kulish (Haifa University)</i></p> <p><b>11:30</b> STAPL: Standard Template Adaptive Parallel Library <i>Antal Buss, Harshvardhan, Ioannis Papadopoulos, Olga Pearce, Timmie Smith, Gabriel Tanase, Nathan Thomas, Xiabing Xu, Mauro Bianco, Nancy M. Amato, and Lawrence Rauchwerger (Texas A&amp;M University)</i></p> <p><b>12:00</b> Parallel Programming Framework for Large Batch Transaction Processing on Scale-out Systems <i>Kazuaki Ishizaki, Toshio Suganuma, Akira Koseki, Yohei Ueda, Ken Mizuno, Hideaki Komatsu, Toshio Nakatani (IBM Research - Tokyo), and Daniel Silva (IBM Corporation)</i></p>	<p><b>12:30</b> Guided Tour of the Hecht Museum</p> <p><b>13:30</b> Lunch at IBM</p> <p><b>Session 2.2: Virtualization - Chair: Dan Tsafir, Technion</b></p> <p><b>14:30</b> Plugging the Hypervisor Abstraction Leaks Caused by Virtual Networking <i>Alex Landau, David Hadas, and Muli Ben-Yehuda (IBM Research - Haifa)</i></p> <p><b>15:00</b> Operating Systems Virtualization: Practice and Experience <i>Oren Laadan and Jason Nieh (Columbia University)</i></p> <p><b>15:30</b> On the DMA Mapping Problem in Direct Device Assignment <i>Ben-Ami Yassour, Muli Ben-Yehuda, and Orit Wasserman (IBM Research - Haifa)</i></p> <p><b>16:00</b> <b>Social Event:</b> <b>Galilee Tour and Dinner</b></p>
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## Systems and Storage Conference - Program

### SYSTOR 2010

Day 3 – May 26, 2010

<p><b>09:00</b> Registration - IBM Haifa building</p> <p><b>09:30 Keynote Talk: Bread Crumbs Don't Last</b> <i>Mary G. Baker, HP</i></p> <p><b>10:30</b> Coffee Break</p> <p><b>Session 3.1: Storage and Communication - Chair: Miriam Allalouf, IBM</b></p> <p><b>11:00</b> Application-Storage Discovery <i>Nikolai Joukov, Birgit Pfitzmann, HariGovind V. Ramasamy, and Murthy V. Devarakonda (IBM T.J. Watson Research Center)</i></p> <p><b>11:30</b> DARC: Design and Evaluation of an I/O Controller for Data Protection <i>Markos Fountoulakis, Manolis Marazakis, Michail D. Flouris, and Angelos Bilas (FORTH-ICS)</i></p> <p><b>12:00</b> A Hybrid Multicast-Unicast Infrastructure for Efficient Publish-Subscribe in Enterprise Networks <i>Danny Bickson, Ezra N. Hoch, Nir Naaman, and Yoav Tock (IBM R&amp;D Labs in Israel)</i></p> <p><b>12:30 Invited Talk: Server-Class Energy and Performance Evaluations</b> <i>Erez Zadok, Stony Brook University</i></p>	<p><b>13:30</b> Lunch</p> <p><b>Session 3.2: Low-level Optimization - Chair: Muli Ben-Yehuda, IBM</b></p> <p><b>14:30</b> Generating Low-Overhead Dynamic Binary Translators <i>Mathias Payer and Thomas R. Gross (ETH Zurich)</i></p> <p><b>15:00</b> Code Alignment for Architectures with Pipeline Group Dispatching <i>Omer Boehm, Gadi Haber, and Helena Kosachevsky (IBM Research - Haifa)</i></p> <p><b>Panel</b></p> <p><b>15:30</b> Cloud Computing: A New Direction or a Passing Trend?</p> <p><b>16:30</b> Closing Remarks <i>Yaron Wolfsthal, Senior Manager, Systems Technologies and Services, IBM Research - Haifa</i></p>
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