



Systems and Storage Conference - Program

SYSTOR'09

Day 1 – May 4th, 2009

08:30 – 09:30 Registration 09:30 Welcome Remarks <i>Oded Cohn, Director</i> <i>IBM Haifa Research Lab</i> 09:50 SYSTOR'09 Overview <i>Yaron Wolfsthal, Senior Manager, Systems Technologies and Services, IBM HRL</i> 10:00 Keynote Talk Supercomputing: From Petascale to Exascale <i>Marc Snir, University of Illinois</i> 11:00 Coffee Break Session 1.1: Distributed and Concurrency 11:30 Optimistic Concurrency for Clusters: Transactional Memory vs. Speculative Locking <i>Konstantin Shagin, Michael Factor, Assaf Schuster and Tal Zamir</i> 12:00 Transactifying Apache <i>Haggai Eran, Ohad Lutzky, Zvika Guz and Idit Keidar</i> 12:30 SCSI Referral -- Adding Cluster Support to the SCSI Protocol <i>Andrew Spry and Ross Zwisle</i>	13:00 Object-Based pNFS in Linux <i>Benny Halevy</i> 13:30 Lunch Session 1.2: Power 14:30 Storage Modeling for Power Estimation <i>Miriam Allalouf, Yuriy Arbitman, Michael Factor, Ronen Kat, Kalman Meth and Dalit Naor</i> 15:00 Energy and Performance Evaluation of Lossless File Data Compression on Server Systems <i>Rachita Kothiyal, Vasily Tarasov, Priya Sehgal and Erez Zadok</i> 15:30 Designing a Power Efficiency Framework for Battery Powered Systems <i>Dacian Tudor and Marius Marcu</i> 16:00 Student Poster Session <i>Refreshments will be served</i>
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Day 2 – May 5th, 2009

09:30 Keynote Talk Towards Invisible Storage <i>Alain Azagury, Director, XIV</i> 10:30 Invited Talk The Next Generation: Data Center Architecture <i>Michael Kagan, Mellanox CTO</i> 11:00 Coffee Break Session 2.1: Deduplication 11:30 The Design of a Similarity Based Deduplication System <i>Lior Aronovich, Ron Asher, Eitan Bachmat, Haim Bitner, Michael Hirsch and Shmuel Tomi Klein</i> 12:00 The Effectiveness of Deduplication on Virtual Machine Disk Images <i>Keren Jin and Ethan Miller</i> 12:30 Multi-Level Comparison of Data Deduplication in a Backup Scenario <i>Dirk Meister and Andre Brinkmann</i> 13:00 Multi Tivoli Sotrage Manager Fast Back (FilesX) Technical Overview <i>Eran Raichstein</i>	13:30 Lunch Session 2.2: Storage 14:30 DHIS: Discriminating Hierarchical Storage <i>Chaitanya Yalamanchili, Gopalan Sivathanu, Kiron Vijayasankar and Erez Zadok</i> 15:00 Write Amplification Analysis in Flash Based Solid State Drives <i>Xiao-Yu Hu, Evangelos Eleftheriou, Robert Haas, Ilias Iliadis and Roman Pletka</i> 15:30 IBM SAN Volume Controller (SVC) <i>Barry Whyte and Ian Judd</i> 16:00 Architecture of the Internet Archive <i>Elliot Jaffe and Scott KirkPatrick</i> 16:30 Social Event: Caesarea Tour and Dinner
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Day 3 – May 6th, 2009

Session 3.1: Virtualization I

09:30 Blade Center Open Fabric Manager

Ben-Ami Yassour, Martin Tross, Zvi Dubitzky, David Kohen and Orit Wasserman.

10:00 Design Principles of the Neocleus Client Hypervisor

Etay Bogner and Zeev Maor

10:30 Towards High-Quality I/O Virtualization

Eddie Dong, Jason Dai, Zhiteng Huang, Alei Liang, Kevin Tian and Yunhong Jiang

11:00 Coffee Break

Session 3.2: Optimization and Misc.

11:30 The Effect of Unrolling and Inlining for Python Bytecode Optimizations

Nadav Rotem and Yosi Ben Asher

12:00 Cache-Aware Scheduling of Multi-Dimensional Iteration Spaces for Efficient Load Balancing on Multi-Core Systems

Arun Kejariwal and Alexandru Nicolau

12:30 Improving Communication-Phase Completion Times in HPC Clusters Through Congestion Mitigation

Vladimir Zdornov and Yitzhak Birk

13:00 Hardware-less Testing for RAS Software

Aviad Zlotnick and Orna Raz

13:30 Lunch

Session 3.3: Virtualization II

14:30 IP Mobility to Support Live Migration of Virtual Machines Across Subnets

Ezra Silvera, Dean Lorenz, Gilad Sharaby and Inbar Shapira

15:00 Virtualization Security

Erez Berkner

15:30 Panel Session: "What is Systems Research about and is It Relevant?"

Moderators:

Dror Feitelson, Muli Ben-Yehuda

Participants:

Danny Dolev, Hebrew University of Jerusalem

Yoelle Maarek, Google

Ethan Miller, University of Santa-Cruz

Julian Satran, IBM Haifa Research Lab

Marc Snir, University of Illinois

16:30 Closing Remarks

Yaron Wolfsthal, Senior Manager, Systems Technologies and Services, IBM HRL



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