Program

June 25

08:00-09:15	Registration		
09:15-09:30	Opening (chairs: Jon Weissman, U Minnesota, Manish Parashar, Rutgers)		
09:30-10:30	Keynote (chair: Jon Weissman, University of Minnesota) Clouds and ManyCore: The Revolution]
10:30-11:00	Daniel A. Reed, Microsoft Research Coffee		
11:00-12:30	Fault Tolerance and Security Session (chair: Thomas Stricker, Google European Engineering Centre, Switzerland)		
	"FaTLease: Fault-Tolerant Lease Negotiation for High-Volume Distributed Computing"	06:30-08:00]
	Felix Hupfeld, Bjoern Kolbeck, Jan Stender, Mikael Hoegqvist, Toni Cortes, Jonathan Marti, Jesus Malo	June 26	
	"Securing Stateful Grid Servers through Virtual		
	Server Rotation" Matthew Smith, Christian Schridde, Bernd	09:00-10:00	
	Freisleben		•
	"Performability Modeling for Scheduling and Fault	10:00-10:30	
	Tolerance Strategies for Scientific Workflows" Lavanya Ramakrishnan, Daniel A. Reed	10:30-12:30	
12:30-02:00	Lunch		
02:00-04:00	Cloud panel chair: Geoffrey Fox, University of		
	Indiana Participants:		
	Ian Foster, University of Chicago Dan Reed, Microsoft		
	Randy Bryant, CMU		
	Dennis Quan, IBM Greg Pfister, Consultant		
	Greg I fister, Consultant		
04:00-04:30	Break		
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04:30-06:00 Data Intensive Computing Session (chair: Renato Figueiredo, University of Florida)

"Evaluating the Usefuless of Content Addressable Storage for High-Performance Data Intensive Applications" Partho Nath, Bhuvan Urgaonkar, Anand Sivasubramaniam

"File Grouping for Scientific Data Management: Lessons from Experimenting with Real Traces" Shyamala Doraimani, Adriana Iamnitchi

"Eliminating the Middle Man: Distributing Dataflow in Scientific Workflows" Adam Barker, Jon B. Weissman, and Jano van Hemert

6:30-08:00 Posters, Demonstrations, and Reception

09:00-10:00	Keynote (chair: Manish Parashar, Rutgers) Web-scale Computing: The Power of Infrastructure as a Service Peter Vosshall, Amazon		
0:00-10:30	Coffee		
0:30-12:30	Reservations, Leasing, and Scheduling Session (chair: Matei Ripeanu, UBC)		
	"Scheduling Mixed-Parallel Applications with Advance Reservations" Henri Casanova, Kento Aida "VARQ: Virtual Advance Reservations for Queues" Daniel Nurmi, Rich Wolski, John Brevik		
	"Combining Batch Execution and Leasing Using Virtual Machines" Borja Sotomayor, Kate Keahey, Ian Foster "The Performance of Bags-Of-Tasks in Large-Scale Distributed Computing Systems" Alexandru Iosup, Ozan Sonmez, Shanny Anoep, Dick Epema		

12:30-02:00 Lunch

02:00-03:30	Hot topic session (chair: Doug Thain, Notre Dame)	June 27	
	Facilitating the Deployment of Ad-hoc Virtual Organizations with Integrated Social and Overlay Networks <i>Renato Figueiredo, P. Oscar Boykin, Pierre St</i> <i>Juste, and David Wolinsky</i>		Keynote (chair: Mike Lewis, SUNY Binghamton) Why Grids Have Failed to Cross the Chasm? Andrew Grimshaw, University of Virginia and the Open Grid Forum
	Ontological Framework for a Free-Form Query Based Grid Search Engine Chaitali Gupta, Rajdeep Bhowmik, and Madhusudhan Govindaraju	10:00-10:30 10:30-12:30	Coffee Storage and I/O Session (chair: Allen Downey, Olin College)
	An Unstructured Peer-to-Peer Approach to Aggregate Node Selection Imran Rao		"Toward Automatic Parallelization of Spatial Computation for Computing Clusters" Baoqiang Yan, Philip Rhodes
	Beyond Search and Navigability: Custom Metadata Can Enable Cross-Layer Optimizations in Storage Systems Elizeu Santos-Neto, Samer Al-Kiswany, Sathish Gopalakrishnan, and Matei Ripeanu		"StoreGPU: Exploiting Graphics Processing Units to Accelerate Distributed Storage Systems" Samer Al-Kiswany, Abdullah Gharaibeh, Elizeu Santos-Neto, George Yuan, Matei Ripeanu
	Harmony: Runtime Techniques for Dynamic Concurrency Inference,Hierarchical Scheduling, and Online Optimization in Heterogeneous Multiprocessor Systems Gregory F Diamos and Sudhakar Yalamanchili		"Semantic-Based Distributed I/O with the ParaMEDIC Framework" <i>Pavan Balaji, Wu-chun Feng, Heshan Lin</i> "A Novel Approach to File Access coRrelation Mining and Evaluation Reference model for
03:30-04:00 04:00-06:00	break Virtual Machines Session (chair: Dick Epema, Delft University of Technology)		Optimizing Peta-Scale File Systems Performance" Peng Xia, Dan Feng, Lei Tian, Hong Jiang, Fang Wang
	"XenLoop: A Transparent High Performance Inter- VM Network Loopback"	12:30-02:00 02:00-03:00	Lunch Future of HPDC session (char: Manish Parashar,
	Jian Wang, Kartik Gopalan "VPM Tokens: Virtual Machine-Aware Power Budgeting in Datacenters" Ripal Nathuji, Karsten Schwan		Rutgers)
	"Improving Peer Connectivity in Wide-area Overlays of Virtual Workstations"		
	Arijit Ganguly, P. Oscar Boykin, David I. Wolinsky, Renato J. Figueiredo		
	"The Impact of Paravirtualized Memory Hierarchy on Linear Algebra Computational Kernels and		

06:30-09:30 Banquet

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Dongarra, Rich Wolski

Lamia Youseff, Keith Seymour, Haihang You, Jack

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