

WWC-5: IEEE 5th Annual Workshop on Workload Characterization

PROGRAM

7:15 AM Breakfast and Registration

8:00 AM

Session 1: Web Site Benchmarks and Synthetic Trace Models

Chair: Alex Mericas, IBM

- **Specification and Implementation of Dynamic Web Site Benchmarks**
Cristiana Amza, Anupam Chanda, Alan L. Cox, Sameh Elnikety, Romer Gil (Rice University), Karthick Rajamani (IBM), Willy Zwaenepoel (Rice University), Emmanuel Cecchet and Julie Marguerite (Rice University / INRIA Rhone-Alpes)
- **Benchmarking a Site with Realistic Workload**
G. Ballocca, R. Politi, V. Russo (CSP, Italy) and G. Ruffo (Universita di Torino, Italy)
- **Evaluating Synthetic Trace Models Using Locality Surfaces**
Elizabeth S. Sorenson and J. Kelly Flanagan (Brigham Young University)

9:15 AM Coffee Break

9:45 AM

Session 2: Commercial Workloads and Platforms

Chair: Mauricio Breternitz, Intel

- **A Detailed Comparison of Two Transaction Processing Workloads**
Robert Stets, Kourosh Gharachorloo (HP WRL) and Luiz André Barroso (Google)
- **Comparing and Contrasting a Commercial OLTP Workload with CPU2000 on IPF**
Jeff Rupley II, Murali Annavam, John DeVale, Trung Diep and Bryan Black (Intel)
- **Optimizing Applications for Performance on the Pentium 4 Architecture**
Arrian Mehis and Ramesh Radhakrishnan (Dell)

11:00 AM

Keynote: HPC Workload Benchmarks that Scale in Multiple Dimensions

John L. Gustafson (Sun Microsystems)

12:00 PM Lunch

1:00 PM

Session 3: Java and Multimedia

Chair: John McCalpin, IBM

- **PennBench: A benchmark suite for Embedded Java**
G. Chen, M. Kandemir, N. Vijaykrishnan and M. J. Irwin (Pennsylvania State University)
- **Cache Performance in Java Virtual Machines: A Study of Constituent Phases**

Anand S. Rajan (ARM), Shiwen Hu and Juan Rubio (The University of Texas at Austin)

- **MPEG4: Fallacies and Paradoxes**
Zhen Fang (University of Utah) and Sally A. McKee (Cornell University)
- **Estimating Multimedia Instruction Performance Based on Workload Characterization and Measurement**
Adil Gheewala, Jih-Kwon Peir (University of Florida, Gainesville), Yen-Kuang Chen and Konrad Lai (Intel)

2:40 PM Coffee Break

3:20 PM

Session 4: Network and Handheld Environments

Chair: Ramesh Radhakrishnan, Dell

- **Energy Impact of Secure Computation on a Handheld Device**
Zhiyuan Li and Rong Xu (Purdue University)
- **A Methodology for Workload Characterization of File-Sharing Peer-to-Peer Networks**
D. Nogueira, L. Rocha, J. Santos, P. Araujo, V. Almeida and W. Meira Jr. (Federal University of Minas Gerais, Brazil)
- **Workload Characterization of Elliptic Curve Cryptography and Other Network Security Algorithms for Constrained Environments**
A. Murat Fiskiran and Ruby B. Lee (Princeton University)

Workshop Committee

Program Chairs

Lizy K. John *The University of Texas at Austin*
Ann Marie G. Maynard *IBM-Austin Research Labs*

Program Committee

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