

## Second TPC Technology Conference on Performance Evaluation and Benchmarking

Co-located with VLDB 2010, September 17, 2010, Singapore

### PROGRAMME

**08:00 - 08:25 Opening Remarks and Welcome:** Raghunath Nambiar, General Chair (Cisco Systems, Inc., USA)

**08:25- 08:50 TPC Public Relations Presentation:** Transaction Processing Performance Council (TPC): State of the Council 2010: Raghunath Nambiar (Cisco Systems, Inc., USA), Nicholas Wakou (Dell, Inc., USA), Forrest Carman (Owen Media, USA), Michael Majdalany (LoBue & Majdalany Magt Group, USA)

#### **08:50 - 10:30 Session 1**

**Liquid Benchmarks: Towards An Online Platform for Collaborative Assessment of Scientific Research Results:** Sherif Sakr (University of New South Wales, Australia), Fabio Casati (University of Trento, Italy)

**A Discussion on the Design of Graph Database Benchmarks:** D. Dominguez-Sal, N. Martinez-Bazan, V. Mentes-Mulero, Pere Baleta, J. L. Larriba-Pey (DAMA-UPC, Spain)

**A Data Generator for Cloud-Scale Benchmarking:** Tilmann Rabl, Michael Frank, Hatem Mousselly Sergieh, Harald Kosch (University of Passau, Germany)

**How to Advance TPC Benchmarks with Dependability Aspects:** Raquel Almeida (University of Coimbra, Portugal), Meikel Poess (Oracle Corporation, USA), Raghunath Nambiar (Cisco Systems, Inc., USA), Indira Patil (Hewlett-Packard Company, USA), Marco Vieira (University of Coimbra, Portugal)

**10:30 -11:00 Tea Break**

**11:00 - 11:30 Invited Talk:** Price and the TPC: Karl Huppler (IBM, USA)

**11:30 - 12:30 Keynote:** Implications of Storage Class Memories (SCMs) on Software Architectures: C Mohan (IBM Almaden Research Center, USA)

**12:30 -14:00 Lunch Break**

#### **14:00 - 16:05 Session 2**

**EXRT: Towards a Simple Benchmark for XML Readiness Testing:** Michael J. Carey, Ling Ling (University of California-Irvine, USA) Matthias Nicola (IBM Silicon Valley Lab, USA), Lin Shao (University of California-Irvine, USA)

**Transaction Performance vs. Moore's Law: A Trend Analysis:** Meikel Poess (Oracle Corporation, USA), Raghunath Nambiar (Cisco Systems, Inc., USA)

**TPC-V: Genesis of a New Benchmark for Evaluating the Performance of Database Applications in Virtual Environments:** Priya Sethuraman, H. Reza Taheri (VMware, Inc., USA)

**First TPC-Energy Benchmark: Lessons Learned in Practice:** Erik Young, Paul Cao, Mike Nikolaiev (Hewlett-Packard Company, USA)

**Using Solid State Drives As a Mid-Tier Cache In Enterprise OLTP Applications:** Badriddine M. Khessib, Kushagra Vaid, Sriram Sankar, Chengliang Zhang (Microsoft Corporation, USA)

**16:05 -16:30 Tea Break**

#### **16:30 - 18:10 Session 3**

**A Benchmark for Adaptive Indexing:** Goetz Graefe (Hewlett-Packard Labs, USA), Stratos Idréos (CWI Amsterdam, The Netherlands), Harumi Kuno (Hewlett-Packard Labs, USA), Stefan Manegold (CWI Amsterdam, The Netherlands)

**XWeB: the XML Warehouse Benchmark:** Hadj Mahboubi, Jerome Darmont (CEMAGREF Clermont-Ferrand, France)

**Benchmarking Using Basic DBMS Operations:** Alain Crolotte, Ahmad Ghazal (Teradata Corporation, USA)

**Assessing and Optimizing Microarchitectural Performance of Event Processing Systems:** Marcelo R.N. Mendes, Pedro Bizarro, Paulo Marques (University of Coimbra, Portugal)

**18:10 -18:30 Closing Remarks:** Meikel Poess, Program Committee Chair (Oracle Corporation, USA)

## Second TPC Technology Conference on Performance Evaluation and Benchmarking

<http://www.tpc.org/tpctc2010>

Co-located with VLDB 2010, September 17, 2010, Singapore

### Call for Papers

The Transaction Processing Performance Council (TPC) is a non-profit organization established in August 1988. Over two decades, it has shaped the landscape of modern transaction processing and database benchmarks. Now, the world is in the midst of an extraordinary information explosion. Enterprise data and user generated data levels continue to grow exponentially. This has challenged researchers and industry experts to develop innovative techniques to evaluate and benchmark software and hardware technologies.

As a result, the TPC is conducting its second Technology Conference (TPCTC 2010) in conjunction with the 36th International Conference on Very Large Data Bases (VLDB 2010). With this conference, the TPC encourages researchers and industry experts to submit novel ideas and methodologies in performance evaluation, measurement, and characterization in the following areas:

- Appliance
- Business Intelligence
- Cloud computing
- Complex event processing
- Database optimizations
- Data compression
- Disaster tolerance and recovery
- Energy and space efficiency
- Green computing
- Hardware innovations
- High speed data generation
- Hybrid workloads
- Software management and maintenance
- Unstructured data management
- Very large memory systems
- Virtualization
- Lessons learned in using TPC workloads
- Enhancements to TPC workloads

Selected papers may be considered for future TPC benchmark developments.

#### Submission Guidelines

Authors are invited to submit original, unpublished papers that are not currently under review for any other conference or journal. We also encourage the submission of extended abstracts, position statement papers and lessons learned in practice. The length of a paper should not exceed 16 pages. Papers should follow the LNCS format, visit <http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0> for details. The title page must contain a short abstract. A template in Microsoft Word format can be downloaded from [http://www.springer.com/cda/content/document/cda\\_downloadaddocument/word.zip?SGWID=0-0-45-72919-0](http://www.springer.com/cda/content/document/cda_downloadaddocument/word.zip?SGWID=0-0-45-72919-0). All papers should be submitted electronically in Adobe PDF format to the review website at <https://cmt.research.microsoft.com/tpctc2010/>.

#### Important Dates

Abstracts due: June 18, 2010  
Papers due: June 25, 2010  
Notification of acceptance: July 26, 2010  
Camera-ready copies: August 20, 2010  
Conference date: September 17, 2010

#### Conference Venue and Registration

Please visit the VLDB 2010 conference website at <http://www.vldb2010.org>

#### Proceedings

The proceedings will be published by Springer in the series of Lecture Notes in Computer Science (LNCS), in hard copy and electronic form.



**VLDB 2010, 36th International Conference on Very Large Data Bases**  
Singapore : 13 to 17 Sept 2010, Grand Copthorne Waterfront Hotel

## Organization

### **General Chair:**

Raghunath Nambiar, Cisco, USA, [rnambiar@cisco.com](mailto:rnambiar@cisco.com)

### **Program Committee:**

Meikel Poess, Oracle, USA, Chair, [meikel.poess@oracle.com](mailto:meikel.poess@oracle.com)

Alain Crolotte, Teradata, USA

Badriddine Khessib, Microsoft, USA

Berni Schiefer, IBM, Canada

Guogen Zhang, IBM, USA

Harumi Kuno, HP Labs, USA

Kai Sachs, TU Darmstadt, Germany

Marco Vieira, University of Coimbra, Portugal

Masaru Kitsuregawa, University of Tokyo, Japan

Mike Molloy, Dell, USA

Paul Larson, Microsoft Research, USA

Peter Thawley, Sybase, USA

Yicheng Tu, University of South Florida, USA

### **Publicity Committee:**

Nicholas Wakou, Dell, USA, Chair, [nicholas\\_wakou@dell.com](mailto:nicholas_wakou@dell.com)

Jerrold Buggert, Unisys, USA

Matthew Lanken, Oracle, USA

Michael Majdalany, L&M Management Group, USA

Forrest Carman, Owen Media, USA

**Keynote:** C. Mohan, IBM Almaden Research Center, USA

### **About TPC**

The TPC is a non-profit corporation founded to define transaction processing and database benchmarks and to disseminate objective, verifiable TPC performance data to the industry.

The TPC currently has 21 full members: AMD, Bull, Cisco, Dell, Fujitsu, Fusion IO, HP, Hitachi, IBM, Ingres, Intel, Microsoft, NEC, Netezza, Oracle, ParAccel, Sybase, Syncsort, Teradata, Unisys and VMware; and three associate members: Ideas International, ITOM International Co and TTA. Further information is available at <http://www.tpc.org>.

Special invitation for academic and government institutions can be found at <http://www.tpc.org/information/specialinvitation.asp>.

### **About VLDB**

Very Large Data Base Endowment Inc. (VLDB Endowment) is a non-profit organization incorporated in the United States for the sole purpose of promoting and exchanging scholarly work in databases and related fields throughout the world. One of its vehicles for achieving its objectives is the sponsorship and support of the annual VLDB conference, a premier annual international forum for database researchers, vendors, practitioners, application developers, and users.

VLDB 2010, the 36th conference in the series, will be held in Singapore. The conference will feature research talks, tutorials, demonstrations, and workshops. It will cover current issues in database and information systems research. Databases remain one of the technological cornerstones of emerging applications of the twenty-first century.

Further information is available at <http://www.vldb2010.org>.

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