

TPCTC 2010

TPC Technology Conference on Performance Evaluation and Benchmarking

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Singapore

TPCTC 2010
Singapore



TPC Transaction Processing
Performance Council

TPCTC 2010

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欢迎

TPC Transaction Processing
Performance Council

VLDB
SINGAPORE 2010



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

TPC Transaction Processing Performance Council

Full Members

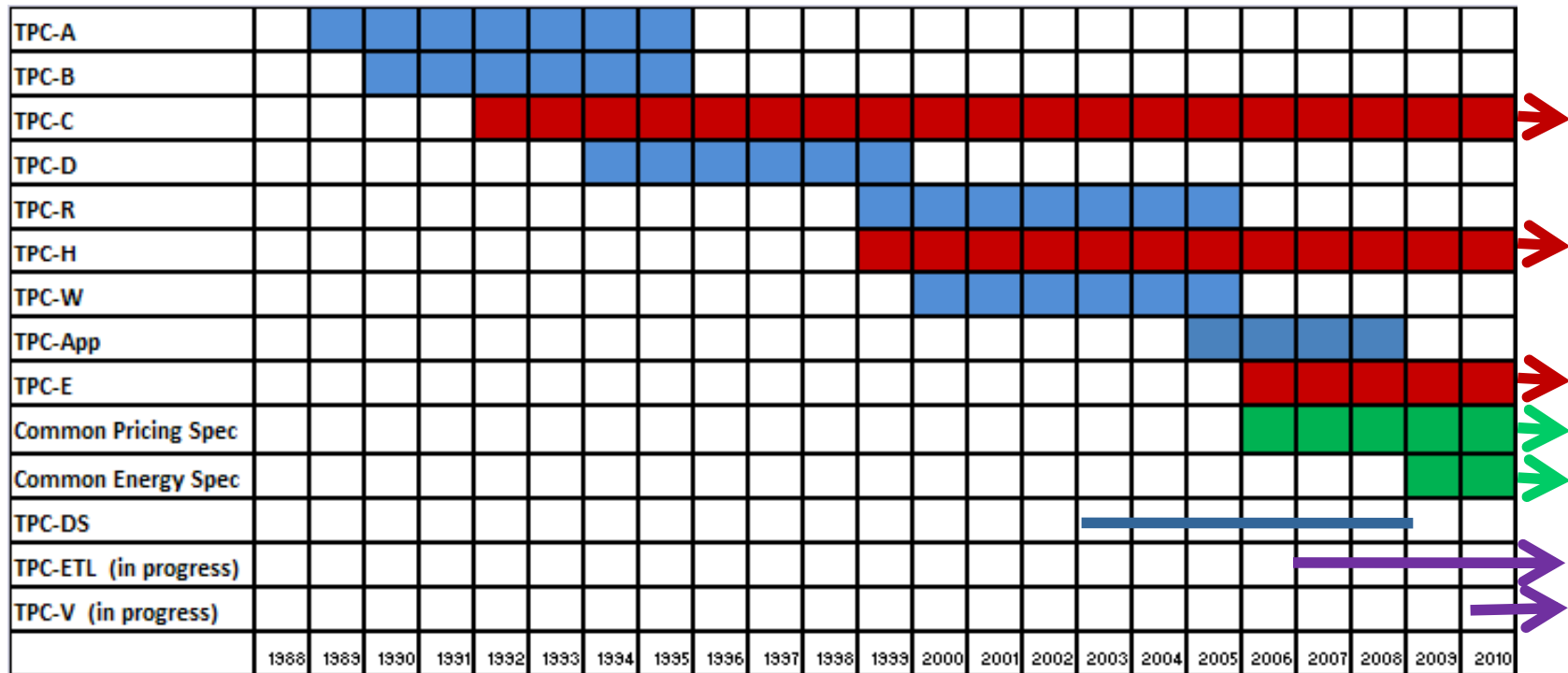
Associate Members

		
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TPCTC 2010

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TPC Benchmark Standards



TPCTC Objectives

- A forum to present and debate novel ideas and methodologies in performance evaluation and benchmarking
- Enable collaboration between database research community and industry experts
- New ideas and methodologies in performance evaluation, measurement and characterization of complex systems
- Enhancements to existing TPC benchmarks
- Prepare ourselves for 2012 and beyond

TPCTC 2009 Summary

- First TPC Technology Conference focusing on Performance Evaluation and Benchmarking co-located with VLDB 2009, August 24-28, 2009, Lyon, France
- Proceedings :
 - <http://www.springer.com/computer/hardware/book/978-3-642-10423-7>
 - <http://www.informatik.uni-trier.de/~ley/db/conf/tpctc/tpctc2009.html>
- Formation of TPC-Virtualization benchmark development committee as a direct result
- Position papers on TPC-E benchmark, ETL benchmark under development, measuring Dependability aspects, new benchmark ideas

TPCTC 2010 Highlights

- Second TPC Technology Conference focusing on Performance Evaluation, Measurement and Characterization of Complex Systems
- Thanks to the TPC and VLDB. TPC to silver sponsor VLDB 2010
- TPC 14 formal presentations
- Keynote by Dr. C. Mohan
- Invited talk by Karl Huppler
- Papers will be published by Springer-Verlag
- Selected papers may be considered for future benchmark developments and enhancements

TPCTC 2010 Programme

- **09:00 - 09:15** Opening Remarks and Welcome
- **09:15- 09:30** TPC Public Relations Presentation
- **09:30 - 10:40** Session 1
- **10:40 -11:00** Tea Break
- **11:00 - 11:30** Invited Talk by Karl Huppler
- **11:30 - 12:30** Keynote by Dr. C Mohan
- **12:30 -14:00** Lunch Break
- **14:00 - 16:05** Session 2
- **16:05 -16:30** Tea Break
- **16:30 - 17:50** Session 3
- **17:50 -18:00** Closing Remarks

TPCTC 2010 Detailed Programme

09:00 - 09:15 Opening Remarks and Welcome: Raghunath Nambiar, General Chair (Cisco Systems, Inc., USA)

09:15- 09:30 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)

09:30 - 10:40 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. Muntès-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)

10:40 -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 - 17:50 Session 3

- **A Benchmark for Adaptive Indexing:** Goetz Graefe (Hewlett-Packard Labs, USA), Stratos Idreos (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)

17:50 -18:00 Closing Remarks: Meikel Poess, Program Committee Chair (Oracle Corporation, USA)

Acknowledgements

TPC Transaction Processing Performance Council

Full Members

Associate Members

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Program Committee:

Meikel Poess, Oracle, Chair
 Alain Crolotte, Teradata
 Badriddine Khessib, Microsoft
 Berni Schiefer, IBM
 Guogen Zhang, IBM
 Harumi Kuno, HP Labs
 Kai Sachs, TU Darmstadt, Germany
 Marco Vieira, University of Coimbra, Portugal
 Masaru Kitsuregawa, University of Tokyo, Japan
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 Jerrold Buggert, Unisys
 Matthew Lancken, Oracle
 Peter Thawley, Sybase
 Michael Majdalany, L&M Management Group
 Forrest Carman, Owen Media

Thanks to: Umesh Dayal, HP Labs

Keynote Speakers:

C. Mohan, IBM Almaden Research Center
 Karl Huppler, IBM, TPC Chair



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TPCTC 2010 Participants



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