A Brief History of HPTS

Slide 2 by Wayne Duquaine

Authors of HPTS 1985 papers marked in red also were at HPTS 2015
HPTS 10 year Milestones in Pictures

1985
Can we reach 1000 TPS?
- The Mainframe is the Computer.
- IMS rules!
- 1 computer per 10,000 people

1995
Can Shared Nothing Scale to Mainframe?
- The Network is the Computer.
- Minis rule!

2005
Will Grid Computing Actually Scale Well?
- The Cloud is the Computer.
- Hadoop rules!

2015
How do we best visualize and virtualize?
- Computing is Everywhere. Rise of the machines.
- 1.5 computers per person

Burning question

CENRTALIZED

DISTRIBUTED

CLUSTERED

PERVASIVE

CENTRALIZED

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HPTS Agendas

• **1985**
• **1987** (Still available from Springer-Verlag!)
• 1989
• 1991
• **1993** (the year of TP-lite and TP-heavy)
• 1995 (I have proceedings here)
• 1997 (I have proceedings here)

• For 1999 and later, see [http://hpts.ws](http://hpts.ws), thanks to HPTS webmaster, Mark Little!
HPTS 1985 Papers: 1

- R. Wilmot: Transaction Performance Improvement from Fractional Direct Addressing.
- Andreas Reuter: The Transaction Pipeline Processor.
- Jürgen Krause: Experiences with an Airline Reservation System Using TPF.
HPTS 1985 Papers: 2

• C. Skeadas: Experiences with a Bank Retail System Using IMS/VS Fast Path.
• S. Westin: Experiences with a Bank Retail System Using NonStop TXP.
• W. Finkelstein, M. Cappi: Experiences with Large Networks of Computers.
• K. Ong: Performance of the Debit/Credit Transaction Using a Relational DBMS.
• Alfred Z. Spector, Dean S. Daniels: Performance Evaluation on Distributed Transaction Facilities.
• Omri Serlin: Why Haven't FT Systems Been More Successful?
HPTS 1985 Papers: 3

- M. Haperlin, T. Storey: The Evolution of Online Transaction Processing under CICS/VS.
- Pat Helland: High Transaction Rates in a Distributed Systems.
- Thomas W. Scrutchin: TPF: Performance, Capacity, and Availability.
- Dieter Gawlick: High Availability with Large Transaction Systems.
HPTS 1985 Papers: 4

- Pete Homan: Systems and Network Management in High Transaction Rate Systems.
- Tobin J. Lehman, Michael J. Carey: A Study of Index Structures for a Main Memory Database Management System.
HPTS 1985 Papers: 5

• C. Mohan, Bruce G. Lindsay: Commit Coordination, Deadlock Detection & Concurrency Control in DBMS.
• Arvola Chan, Umeshwar Dayal, Meichun Hsu: Providing Database Management Capabilities for Mission Critical Applications.