

# TPC TC 2009

## The Transaction Processing Performance Council (TPC): Twenty Years Later – A Look Back, A Look Ahead

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# Why Benchmarks Are Important

- Vendor point of view
  - Define the playing field (measurable, repeatable)
  - Competitive analysis (competition, release to release progress)
  - Encourage focused technology development
- Customer point of view
  - Cross-vendor comparisons (performance, TCO)
  - Evaluate new technologies
  - Eliminate investment in in-house characterization
- For the research community
  - A standard yet customizable workload

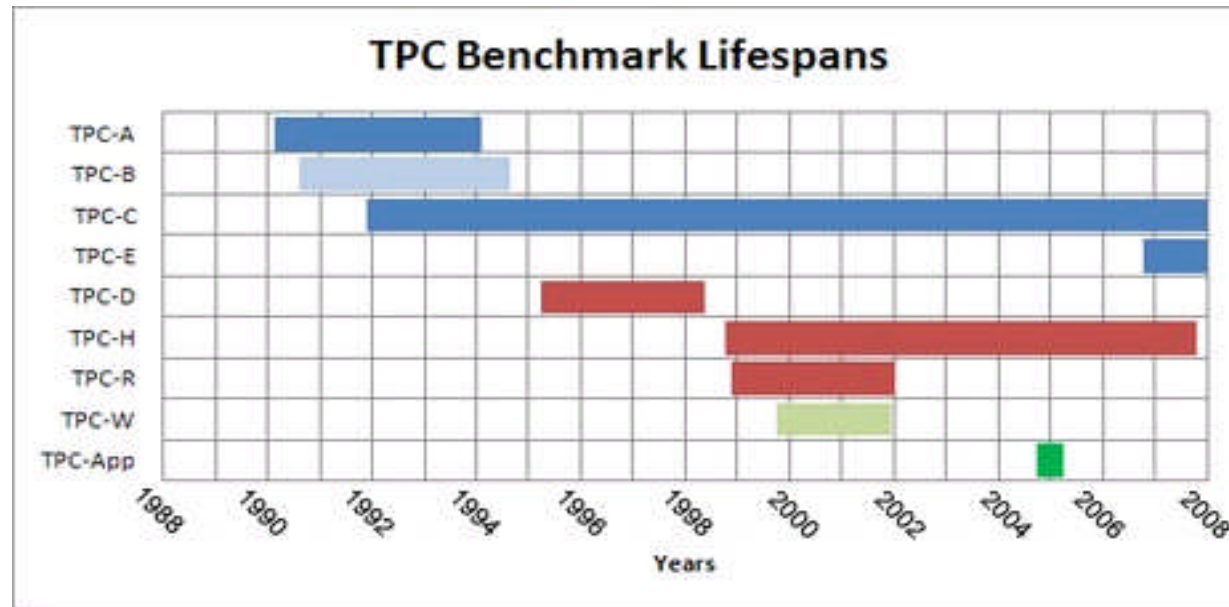
# What makes the TPC unique

- TPC is the only benchmark organization that requires price-performance scores across all of its benchmarks
- All tests require full documentation of the components and applications under test, so that the test can be replicated
- The TPC requires an independent audit of results prior to publication
- Extensive oversight via fair use policies
- TPC tests the whole system performance, not just a piece
- TPC is database agnostic: Oracle, IBM DB2, Sybase, Microsoft SQL Server, NonStop SQL/MX and other databases
- TPC provides cross-platform performance comparisons, a view of processor versus real performance, technology comparisons and actual cost of performance comparisons

## Major activities of the TPC

- Refinement of existing benchmarks
- Development of new benchmarks
- Publication of benchmark results
- Promotion of the TPC model and results
- Resolution of disputes and challenges

# TPC Benchmark Lifespans



- TPC Current Developments
  - TPC-Energy Specification
  - TPC-ETL Benchmark

## High-priority Areas for Future Developments

- Appliance
- Business Intelligence
- Cloud computing
- Complex event processing
- Database performance optimizations
- Green computing
- Data compression
- Disaster tolerance and recovery
- Energy and space efficiency
- Hardware innovations
- High speed data generation
- Hybrid workloads or operational data warehousing
- Unstructured data management
- Software management and maintenance
- Virtualization
- Very large memory systems

## How to Join TPC

- TPC Membership
  - Full Membership
  - Associate Membership
  - TPC Professional Affiliate
- Special Invitation for Academic and government institutions
  - <http://www.tpc.org/information/specialinvitation.asp>
  - Contact [admin@tpc.org](mailto:admin@tpc.org)
- TPC Benchmark Status Report
  - Published 4-times a year
  - Sign up at <http://www.tpc.org/information/about/email.asp>

## TPC Membership Benefits

- Influence in the TPC Benchmarking Development Process
- Timely Access to Ongoing Proceedings
- Product Improvement
- Access to TPC data and internal communications



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Q & A