Linked Data Benchmark Council

Peter Boncz, Josep L. Larriba-Pey

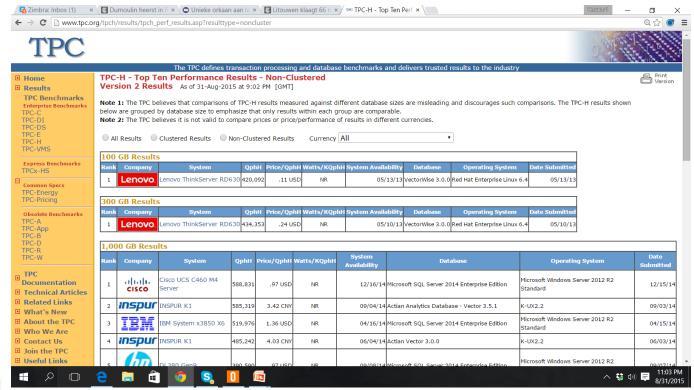
boncz@cwi.nl, larri@ac.upc.edu
www.ldbcouncil.org

← → C | Idbcouncil.org Apps 🗋 🧳 D2.5 🗋 Maps The graph & RDF benchmark reference BENCHMARKS » INDUSTRY » PUBLIC » DEVELOPER » BENCHMARKS Here you may find the results for different benchmarks, he. the Social Network Benchmark (SNB) and the Semantic Publishing Benchmark (SRB), their definitions and best practices, the repositories where to find the data generators and the query implementations, an access to the intranet for the LDBC industry partners and a list of the LDBC member vendors. LDBC official 份 Why LDBC? The benchmarking 冈 benchmarks What are Graph Database systems? community for industry What are RDF Database systems? Test the SPB and/or contribute to it Semantic Publishing Benchmark Why is benchmarking valuable? Test the SNB and/or contribute to it (SPB) What is the mission of LDBC?

What is the LDBC?

Linked Data Benchmark Council = LDBC

- Industry entity similar to TPC (<u>www.tpc.org</u>)
- Focusing on graph and RDF store benchmarking





LDBC Organization (non-profit)





"sponsors"



*Sparsity







- + non-profit members (FORTH) & personal members
- + Task Forces, volunteers developing benchmarks
- + TUC: Technical User Community (9 workshops, ~45 graph and RDF user case studies, ~20 vendor presentations)



LDBC Task Forces

- Semantic Publishing Benchmark Task Force
 - Develops industry-grade RDF benchmark
- Social Network Benchmark Task Force
 - Develops benchmark for graph data management systems
 - Broad coverage: three workloads
- Graph Analytics Task Force
 - Spin-off from the SNB task force (third workload)
- Graph Query Language Task Force
 - Studies features of graph database query languages



LDBC benchmarks consist of...

- Four main elements:
 - data schema: defines the structure of the data
 - workloads: defines the set of operations to perform
 - performance metrics: used to measure (quantitatively) the performance of the systems
 - execution rules: defined to assure that the results from different executions of the benchmark are valid and comparable
- Software as Open Source (GitHub)
 - data generator, query drivers, validation tools, ...

