



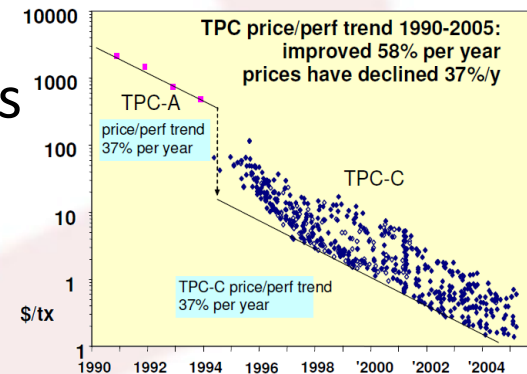
Linked Data Benchmark Council 2.5-year status report

Peter Boncz




Why Benchmarking?

- make competing products comparable (quantify)
 - E.g. make the case for graphDB vs RDBMS
 - measure progress in versions/products
- accelerate progress, make technology viable
 - Maturing RDF systems
 - Maturing property graph systems
 - Maturing graph programming frameworks



ldbcouncil.org

The screenshot shows a web browser window with the URL ldbcouncil.org. The page features the LDBC logo and tagline 'The graph & RDF benchmark reference'. Navigation links include BENCHMARKS, INDUSTRY, PUBLIC, and DEVELOPER. The main content area is titled 'BENCHMARKS' and contains a paragraph describing the results for different benchmarks like SNB and SPB, along with a 'READ MORE' button. Below this are three columns: 'LDBC official benchmarks for industry' (with a sub-link for Semantic Publishing Benchmark), 'Why LDBC?' (with sub-links about Graph Database systems, RDF Database systems, benchmarking value, and mission), and 'The benchmarking community' (with sub-links to test and contribute to SPB and SNB).


LDBC  *The graph & RDF benchmark reference*


[BENCHMARKS](#) » [INDUSTRY](#) » [PUBLIC](#) » [DEVELOPER](#) »


BENCHMARKS

Here you may find the results for different benchmarks, i.e. the Social Network Benchmark (SNB) and the Semantic Publishing Benchmark (SPB), 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.

[READ MORE](#)

LDBC official benchmarks for industry 
Semantic Publishing Benchmark (SPB)

Why LDBC? 
What are Graph Database systems?
What are RDF Database systems?
Why is benchmarking valuable?
What is the mission of LDBC?

The benchmarking community 
Test the SPB and/or contribute to it
Test the SNB and/or contribute to it
Provide Feedback on the Forum

LDBC: what systems?

Benchmarks for:

- Graph Database systems
 - Neo4j, SparkSee, InfiniteGraph, ...
- RDF stores (SPARQL speaking)
 - Virtuoso, GraphDB, BlazeGraph, Allegrograph,...
- Graph Programming Frameworks
 - Giraph, Green Marl, Grappa, GraphLab,...
- Relational Database systems

Industry Membership



What is LDBC doing now?

Two main “task forces”:

- Semantic Publishing Benchmark (SPB)
 - BBC use case – RDF oriented
 - **New version 2.0 with extended ontologies**
- Social Network Benchmark (SNB)
 - Interactive workload (ready)
 - BI workload (**almost draft**)
 - Graph algorithms workload

See: github.com/LDBC

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- **SNB Analytics Benchmark**
 - Graph algorithms workload (graphalytics)
 - Partnering with TU Delft / Oracle Labs

See: github.com/LDBC

SNB: Workloads

- **Interactive:** tests a system's throughput with relatively simple queries with concurrent updates
 - *Show all photos posted by my friends that I was tagged in*
- **Business Intelligence:** consists of complex structured queries for analyzing online behavior
 - *Influential people the topic of open source development?*
- **Graph Analytics:** tests the functionality and scalability on most of the data as a single operation
 - *PageRank, Shortest Path(s), Community Detection*
 - *GRAPHALYTICS cooperation (TU Delft, Oracle Labs)*

Semantic Publishing Benchmark (SPB)



Home | Football | Formula 1 | Cricket | Rugby U | Rugby L | Tennis | Golf | London 2012 | More Sports

Countries > Bulgaria > Athletes | Schedule & Results | Medals | Olympic Sports

Share f t


Information on this page will not be updated. Facts were accurate as of August 13, 2012.

Bulgaria



Key Facts


- Top medal sports (pre-2012)
Wrestling
- Capital
Sofia
- Population
7,500,000
- Size
110,994km²
- Languaques



Team GB's Campbell secures medal

Luke Campbell is guaranteed an Olympic medal after beating Bulgaria's Detelin Dalakiev in his bantamweight semi-final.

5 Aug 12



Bulgaria beat GB volleyball men

MEN'S VOLLEYBALL
29 Jul 12

Great Britain's men produce a battling display on their Olympic debut but are beaten in straight sets by Bulgaria at Earls Court.

Medal Table

Show me: Countries GO

Rank	Country				Total
1	United States	46	29	29	104
2	China	38	27	23	88
3	Great Britain & N. Ireland	29	17	19	65
63	Bulgaria	0	1	1	2

[View full Bulgaria table](#)

Bulgaria Medallists

Bronze
Tanel Pulev
Men's Heavyweight (91kg)

Silver
Stanka Zlateva Hristova
Women's Freestyle 72kg

Getting the word Out


- LDBC is getting a second life!
 - new & independent logo, infrastructure



*The graph & RDF
benchmark reference*

- Benchmark Results Campaign
 - Social Media, Blogs, White Papers, Press Releases, Marketing,...
 - SPB 2.0 Audited results:
 - ONTO/OWLIM
 - Openlink/Virtuoso
 - SNB 1.0 Audited Results:
 - Sparsity/Sparksee
 - Openlink/Virtuoso
 - HP Labs/Titan

LDBC Roadmap

- EU project almost done
 - Final review April 28, Luxemburg
 - LDBC non-profit company takes over
 - Writing an Elsevier book
- 7th Technical User Community Meeting
 - November 2015, at TJ Watson 
- GRADES 2015 workshop
 - May 31, SIGMOD/PODS 2015 @ Melbourne, Australia (!)
- Focus on Benchmark Results
 - Officially adopt SNB + SPB
 - Produce Audited Results