


Linked Data Benchmark Council - Social Network Benchmark - Executive Summary

System details

 Test Sponsor CreateLink Technology (Zhejiang Chuanglin Technology Co., Ltd)		Galaxybase V3.3	LDBC SNB 0.3.3 Auditing Policies 0.4.0
			Availability Date 15 th March 2022
Cloud Provider	Machine Region/ Instance Type	Operating System	Database Manager
Amazon Web Services	N. Virginia/ r5d.12xlarge	18.04.1-Ubuntu	Galaxybase V3.3
Server Processor Count/Cores/Threads/Type	Total cache size per CPU	Memory size	Storage/ Average Performance
1/24/48/ Intel Xeon Platinum 8259CL @ 2.5GHz	L1 cache: 1.5MB L2 cache: 24MB L3 cache: 33MB	372 GB	2 x 900GB NVMe SSD in RAID0/ 6421 IOPS

System pricing

Total System Cost	Machine Cost	License cost	Maintenance fee
\$263,282 USD	\$52,210 USD (3 years reserved instance)	\$155,200 (permanent)	\$55,872 (3 years)

Benchmark configuration and system settings

Datagen version	v0.3.3		
Output format	CsvComposite serializer		
Scale factor	30	100	300
Time Compression Ratio	0.0038	0.0163	0.053
Transaction isolation level	Serializable		

Summary of performance metrics

Scale factor	Benchmark duration	Benchmark operations	Throughput	Query on-time compliance
30	2h 14m 35.740s	74,990,196	9,285.86 operations per second	100.00%
100	2h 05m 26.944s	63,988,107	8,501.21 operations per second	100.00%
300	2h 07m 24.645s	63,989,669	8,370.52 operations per second	100.00%

Audited by Marton Bur of Chorograph

Report Date: 10/05/2022

This summary references an audited LDBC benchmark run. The results have been gathered by an independent and impartial auditor who has validated the implementation of the queries, successfully run the ACID tests associated with the claimed isolation level, and verified the overall system's configuration conformance to the description of the benchmark and its strict requirements.