



Executive Summary of an Audited LDBC Benchmark Result

Linked Data Benchmark Council – Social Network Benchmark – Interactive Workload

System Details

Test Sponsor: 	AtlasGraph 3.0.0 	LDBC SNB 0.3.6 Auditing Policies 0.3.6 System availability date: 2023-11-28
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Cloud provider	Machine region / instance type	Operating system	Database management system
Amazon Web Services	China (Beijing) / r5d.12xlarge	Ubuntu Linux 20.04.6	AtlasGraph v3.0.0

Server processor cores / threads / type	Total cache size per CPU	Memory size	Storage / file system / average performance
24 / 48 / Intel Xeon Platinum 8259CL CPU	L1i cache: 768KiB L1d cache: 768KiB L2 cache: 24MiB L3 cache: 35.8MiB	384 GiB	900GB NVMe SSD / xfs file system/ 16,898 IOPS

System Pricing

Total system cost	Machine cost	License cost	Maintenance fee
2,032,461 RMB	232,461 RMB	1,200,000 RMB	600,000 RMB

Benchmark Configuration and System Settings

Datagen version	v1.0.0		
Driver version	v1.2.0		
Implementations version	v1.0.0		
Driver read threads	64		
Driver write threads	64		
Output format	CsvCompositeMergeForeign using the LongDateFormatter		
Scale factor	30	100	300
Time compression ratio	0.001	0.0026	0.0092
Transaction isolation level	Serializable		

Summary of Performance Metrics

Scale factor	Benchmark duration	Benchmark operations	Throughput (ops/s)	On-time query compliance
30	02h 00m 28s	271,982,072	37,631.25	99.86%
100	02h 01m 36s	355,776,423	48,764.08	96.22%
300	02h 04m 58s	362,257,201	48,311.63	95.24%

Audited by Márton Búr	Report Date: 2023-12-25
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.	

