## LDBC Social Network Benchmark Interactive Workload – Audited Run – Executive Summary System Details

Test Sponsor		System Under Test (SUT)	Availability date of the SUT	
HUAWEI	HUAWEI CLOUD	Graph Engine Service (GES)	2025-10-28	

Cloud provider	Machine region / instance type	Operating system	Database management system
Huawei Cloud	km2.40xlarge.8	Ubuntu 24.04.1	GES 3.1.0

Server processor cores / threads / type	Total cache size per CPU	IIVIEMORV SIZE	Storage / file system / average performance
Kunpeng @ 2.0GHz	L1 cache: 10MiB Data + 10MiB Instruction L2 cache: 80 MiB L3 cache: 128 MiB		6000GiB NVMe SSD / ext4 / 1269 IOPS

**System Pricing** 

Total system cost	Machine cost	License cost	Maintenance fee
2,939,112 RMB	529,112 RMB (km2.40xlarge.8 reserved instance	2,400,000 RMB	_
	in the Huawei Cloud, standard 3-year term)		(included in the license)

**Benchmark Configuration and System Settings** 

benchinark Configuration and System Settings					
Benchmark specification and auditing policies version	v2.2.3				
Datagen version	v1.0.0				
Driver version	v1.2.0				
Implementation language	C++				
Driver read threads	64				
Data partitions / driver write threads	48				
Data format	CsvComposite-StringDateFormatter				
Scale factor	100	300	1000		
Time compression ratio	0.00010	0.00315	0.02300		
Transaction isolation level	Read Committed				

**Summary of Performance Metrics** 

Scale factor	Benchmark duration	Benchmark operations	Throughput (ops/s)	On-time query compliance
100	02h 10m 36s	1 011 574 388	129 089.68	98.92%
300	02h 00m 55s	1 011 528 900	139 411.14	98.96%
1000	02h 02m 28s	924 962 052	125 872.54	95.50%

## Audited by Dr. Benjamin Steer Report Date: 2025-12-01

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.