
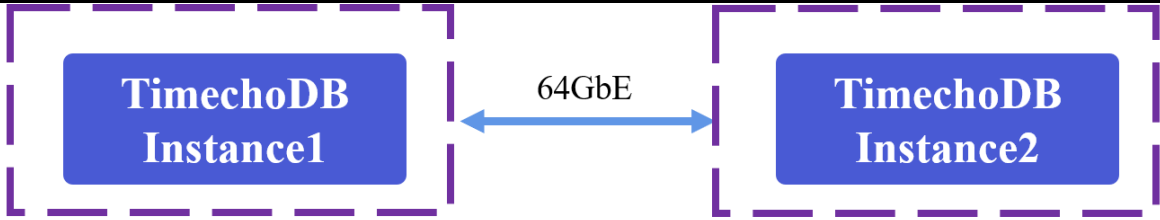


| | | | |
|--|---|--|--------------------|
|  | TimechoDB 1.3.2.2 based on Apache IoTDB | TPCx-IoT 2.1.1 | |
| | | TPCx Pricing 2.9.0 Report Date July 24,2024 | |
| Total System Cost \$297,835.08 USD | TPCx-IoT Performance Metric 10,671,241.41 IoTps | Price/Performance \$27.91 USD/kIoTps | |
| Servers | Operating System | Other Software | Availiability Date |
| ecs.g8a.48xlarge | CentOS Stream 8 64-bit | None | July 24, 2024 |
| System Under Test Configuration Overview | | | |
|  | | | |
| Server 1: 1 x ecs.g8a.48xlarge CentOS Stream 8 64-bit 192 vCPU Processor 768 GB Memory 10 x 900GB Enhanced SSD | | Server 2: 1 x ecs.g8a.48xlarge CentOS Stream 8 64-bit 192 vCPU Processor 768 GB Memory 10 x 900GB Enhanced SSD | |
| Total Servers: | | 2 Alibaba Cloud ECSs -2x ecs.g8a.48xlarge | |
| Total Processors/Cores/Threads: | | 2/192/384 | |
| Server Configuration: | | 2x TimechoDB Instances | |
| Processor: | | 1x ecs.g8a.48xlarge (AMD EPYC 9T24 96-Core Processor) | |
| Memory: | | 768GB | |
| Storage Device: | | 10x 900GB Alibaba Cloud ESSD | |
| Network Controller: | | Bandwidth: 64 Gbps | |
| Connectivity: | | Alibaba Cloud Elastic Compute Service | |



**TimechoDB 1.3.2.2
based on Apache IoTDB**

TPCx-IoT 2.1.1
 TPC Pricing 2.9.0
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| Description | Part Number | Source | List Price (USD) | Qty | Extended Price (USD) | 3 yr. Maint. Price (USD) |
|--|------------------|--------|------------------|-----|----------------------|---------------------------|
| Licensed Compute Services | | | | | | |
| Alibaba Cloud Elastic Compute Service 1-Year Plan Auto-renewal | | 1 | 61,361.79 | 6 | 368,170.74 | included |
| - Alibaba Cloud ECS Instance: ecs.g8a.48xlarge | ecs.g8a.48xlarge | 1 | included | 2 | | |
| - 128GB ESSD System Disk | | 1 | included | 2 | | |
| - 900GB ESSD Data Disk | | 1 | included | 20 | | |
| - Private Network | | 1 | included | 1 | | |
| | | | | | Sub-Total | \$368,170.74 USD |
| Licensed Software Services | | | | | | |
| CentOS Stream 8 64-bit | | 1 | included | 2 | | |
| 3-Year TimechoDB 1.3.2.2 License (incl. 1-year 24*7 Support) | | 2 | 60,000 | 1 | 60,000 | |
| 1-Year TimechoDB 24*7 Support | | 2 | 12,000 | 2 | 24,000 | |
| | | | | | Sub-Total | \$84,000 USD |
| Discounts* | | | | | | |
| Alibaba Cloud ECS (37.36%) | | 1 | (22,922.61) | 6 | (137,535.66) | |
| 3-Year TimechoDB 1.3.2.2 License | | 2 | (12,000) | 1 | (12,000) | |
| 1-Year TimechoDB 24*7 Support | | 2 | (2,400) | 2 | (4,800) | |
| | | | | | Sub-Total | (\$154,335.66 USD) |
| | | | | | Total | \$297,835.08 USD |

| | | |
|---|--------------------------------------|---------------------------|
| <u>Price Sources:</u> 1) Alibaba Cloud, 2) Timecho * 37.36% OFF discount is directly applied for over 12 months subscription in all Alibaba Cloud regions. *20% OFF discount is based on list price for the deployment of small clusters of TimechoDB. | Three-Year Cost of Ownership: | \$297,835.08 USD |
| | IoTps: | 10,671,241.41 |
| | USD/kIoTps: | \$27.91 USD/kIoTps |

Prices used in TPC benchmarks must reflect the actual prices a customer would pay for purchase of the components in all regions specified in the result. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases are not permitted. All discounts reflect standard pricing conventions for the listed components. For complete details, see the pricing section of the TPC benchmark specification. If you find that stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.



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Numerical Quantities

Scale Factor 21,000,000,000

Performance Run (Run1)

Warmup Run Start Time 2024-07-03 17:57:48.000

Warmup Run End Time 2024-07-03 18:30:45.000

Warmup Run Elapsed Time 1,975.967

Measured Run Start Time 2024-07-03 18:30:45.000

Measured Run End Time 2024-07-03 19:03:20.000

Measured Run Elapsed Time 1,954.347

Performance Metric (IoTps) 10,745,277.07

Repeatability Run (Run2)

Warmup Run Start Time 2024-07-03 19:21:41.000

Warmup Run End Time 2024-07-03 19:55:49.000

Warmup Run Elapsed Time 2,046.969

Measured Run Start Time 2024-07-03 19:55:50.000

Measured Run End Time 2024-07-03 20:28:38.000

Measured Run Elapsed Time 1,967.906

Performance Metric (IoTps) 10,671,241.41



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Performance Run Report (Run1)

TPCx-IoT Performance Metric (IoTps) Report

Test Run1 details Total Time For Warmup Run In Seconds = 1,975.967
Test Run1 details Total Time In Seconds = 1,954.347
Total Number of Records = 21,000,000,000

TPCx-IoT Performance Metric (IoTps): 10,745,277.07

Repeatability Run Report (Run2)

Test Run2 details Total Time For Warmup Run In Seconds = 2,046.969
Test Run2 details Total Time In Seconds = 1,967.906
Total Number of Records = 21,000,000,000

TPCx-IoT Performance Metric (IoTps): 10,671,241.41



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Revision History

| Date | Edition | Description |
|---------------|---------|---------------------|
| July 24, 2024 | First | Initial Publication |