Hewlett Packard Enterprise

Performance brief

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HPE PROLIANT DL380 GEN10 PLUS TAKES OVERALL PRICE/PERFORMANCE LEADERSHIP ON TPC-H BENCHMARK

Record result on decision support benchmark is less costly than competitors @ 10000GB scale factor

Key takeaways

DL380 Gen10 Plus

- **#1 overall world record price/performance @ 10000GB (10 TB)**
- **Best 2P price/performance**
- **Dell EMC PowerEdge R940xa costs 52% more than the HPE ProLiant DL380 Gen10 Plus**
- **Cisco UCS C480 M5 costs 60% more than the HPE ProLiant DL380 Gen10 Plus**

Configurations
HPE ProLiant DL380 Gen10 Plus:

Configuration: HPE ProLiant DL380 Gen10 Plus server used 2 Intel Xeon Gold 6346 processors 3.1GHz, 205W; 2 processors/32 cores/64 threads; 12 x 1.6 NVMe drives for data files; 4 x 3.2 TB SSDs for log/backup; Windows Server 2022; Microsoft SQL Server 2019 Enterprise Edition. TPC-H results show the HPE ProLiant-DL380 Gen10 Plus with a result of 956,701.4 QphH @ 10000GB and $438.11/kQphH @ 10000GB with system availability of August 31, 2021. See tpc.org/3379 for more information.

Dell EMC PowerEdge R940xa: 4 Intel® Xeon® Platinum 8280 2.7 GHz, 4 processors/112 cores/224 threads; 6 TB memory; Microsoft Windows Server 2019 Standard Edition; Microsoft SQL Server 2019 Enterprise Edition 64-bit. TPC-H results show the Dell EMC PowerEdge R940xa server with a result of 1,420,550 QphH @ 10000GB and $664.37/kQphH @ 10000GB with system availability of September 2, 2020. See http://tpc.org/3368 for more information.

Cisco UCS C480 M5: 4 Intel Xeon Platinum 8280M 2.7 GHz; 4 processors/112 cores/112 threads; 6 TB memory; Red Hat Enterprise Linux 7.6; Microsoft SQL Server 2017 Enterprise Edition. TPC-H results show the Cisco UCS 480 M5 server with a result of 1,651,514 QphH @ 10000GB and $700.73/kQphH /QphH @ 10000GB with system availability of April 2, 2019. See http://tpc.org/3372 for more information.

EXECUTIVE SUMMARY

The new HPE ProLiant DL380 Gen10 Plus took the overall non-clustered world record for price/performance @ 10000GB (10TB) scale factor on the TPC Benchmark™ H (TPC-H) benchmark. The $438.11/kQphH score defeated competitors Dell EMC and Cisco. HPE customers can appreciate the cost savings with the expansion of HPE's best-selling 2U rack family with 3rd Generation Intel® Xeon® Scalable Processors.

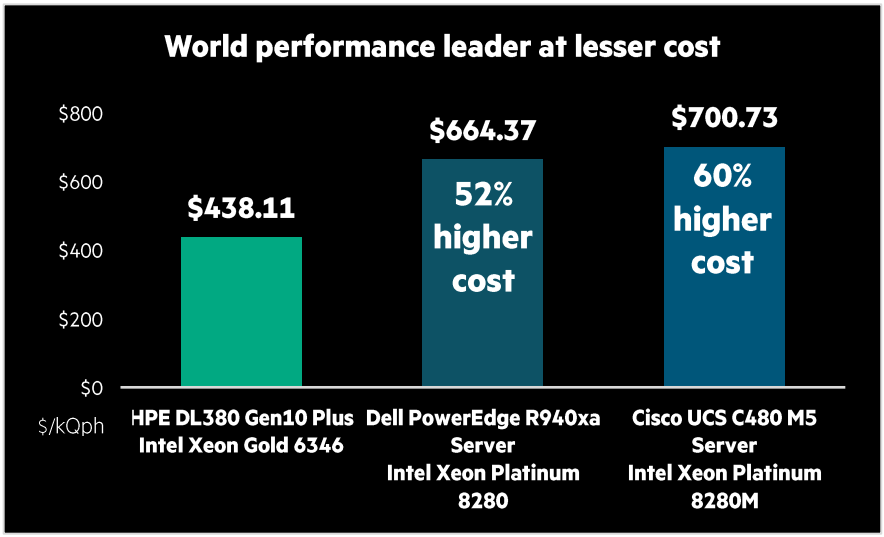


FIGURE 1. The HPE ProLiant DL380 Gen10 Plus costs less than the Dell EMC and Cisco servers on the TPC-H benchmark @ 10000 scale factor.

THE NEW 2U/2P: HPE PROLIANT DL380 GEN10 PLUS

The HPE DL380 Gen10 Plus is adaptable for diverse workloads and is designed for supreme versatility and resilience, ideal for multiple environments. The HPE ProLiant DL380 Gen10 Plus server is built with foundational intelligence to transform IT with insights that enhance workload performance, placement, and efficiency, delivering better outcomes faster.



BOTTOM LINE

The HPE DL380 Gen10 Plus server is a game changer for customers who need fast performance at less cost.

ABOUT THE BENCHMARK

The TPC-H is a decision support benchmark consisting of a suite of business-oriented ad-hoc queries and concurrent data modifications selected for broad relevance. This benchmark models decision support systems examining large volumes of data and executing complex queries. See TPC.ORG for more information. The TPC states that comparisons of results measured against different database sizes and currencies are misleading and discourages such comparisons. All TPC results are grouped in this document by database size to emphasize that only results within each group are comparable.

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