

# HPE PROLIANT AMD SERVERS GAIN 7 WORLD PERFORMANCE RECORDS FOR DECISION SUPPORT DATABASE

HPE ProLiant DL385 Gen10 Plus v2 and HPE ProLiant DL345 Gen10 Plus servers crush expectations

## Key takeaways



### DL385 Gen10 Plus v2

- #1 overall world record performance
- #1 overall world record price/performance
- 1<sup>st</sup> 2P result for TPC-H @ 10000GB scale factor
- Best 2P performance
- 2P DL385 Gen10 Plus v2 beats the 4P Cisco UCS C480 M5 Server
- 14% more performance than 4P Cisco and 16.42% less cost than previous best, the 4P Dell EMC PowerEdge R940xa, on TPC-H @ 10000GB scale factor

### DL345 Gen10 Plus

- #1 overall performance
- Best 1P performance
- #3 overall price/performance
- 8.2% better performance than previous best on TPC-H @ 3000GB scale factor
- 27.4% more performance and 16.7% less cost in comparison to 2nd Gen AMD EPYC processors

## Configurations

### HPE ProLiant DL385 Gen10 Plus v2:

<sup>3</sup>TPC-H performance as of March 15, 2021. See [tpc.org](http://tpc.org) for more information. Claim based on having the #1 performance and price/performance for a non-clustered system on the TPC-H @ 10000GB scale factor. Configuration: 1 HPE ProLiant DL385 Gen10 Plus v2 server used 2 AMD EPYC 7763 2.45 GHz processors; 2 processors/128 cores/256 threads; Red Hat Enterprise Linux 8.3; Microsoft SQL Server 2019 Enterprise Edition. TPC-H results show the HPE ProLiant-DL385 Gen10 Plus v2 with a result of 1,883,497.4 QphH @ 10000GB and \$0.56 USD/QphH @ 10000GB with system availability of April 19, 2021. See [tpc.org/3351](http://tpc.org/3351) (as of March 15, 2021) for details.

### HPE ProLiant DL345 Gen10 Plus:

<sup>2</sup>TPC Benchmark™ H (TPC-H) performance as of March 15, 2021. See [tpc.org](http://tpc.org) for more information. Claim based on having the #1 performance for a non-clustered system on the TPC-H @ 3000GB scale factor. Configuration: 1 HPE ProLiant DL345 Gen10 Plus server used 1 AMD EPYC 7763 2.45 GHz processor; 1 processor/64 cores/128 threads; Red Hat Enterprise Linux 8; Microsoft® SQL Server 2019 Enterprise Edition. TPC-H results show the HPE ProLiant DL345 Gen10 Plus with a result of 1,346,933 QphH @ 3000GB and \$0.40 USD/QphH @ 3000GB with a system availability of April 19, 2021. See [tpc.org/3352](http://tpc.org/3352) (as of March 15, 2021) for details.

## EXECUTIVE SUMMARY

The new HPE ProLiant DL385 Gen10 Plus v2 and the DL345 Gen10 Plus servers took overall non-clustered world record performance records @ 10000GB and @ 3000GB scale factors on the TPC Benchmark™ H (TPC-H) benchmark, respectively. With the latest 3rd Gen AMD EPYC™ processors, the servers showed exceptional price/performance, and performance gains over competitors and when compared to previous generations.

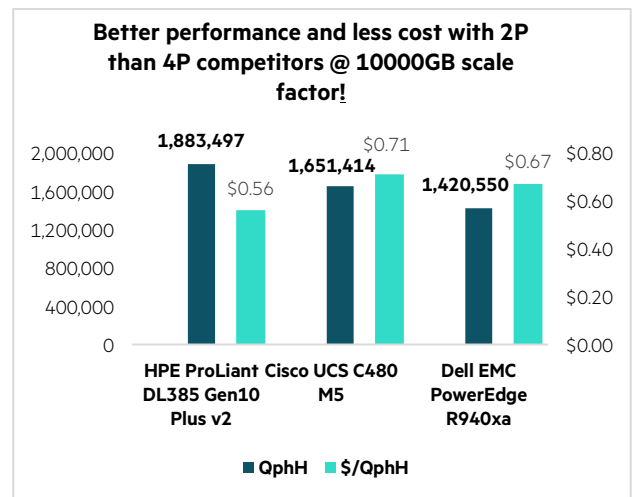
The HPE ProLiant DL385 Gen10 Plus v2 server achieved two #1 non-clustered results for decision support database workloads, providing 14% better performance as a 2P server compared to a 4P server and a 16.42% cost reduction compared to the previous best result.<sup>3</sup>



2U/2P: HPE ProLiant DL385 Gen10 Plus v2

Ideal choice as an accelerator-optimized solution for big data analytics

**FIGURE 1.** The HPE ProLiant DL385 Gen10 Plus v2 offers 14% more performance than the 4P Cisco UCS C480 M5 server and is 16.42% more affordable than the previous best on the Dell EMC PowerEdge R940xa Server



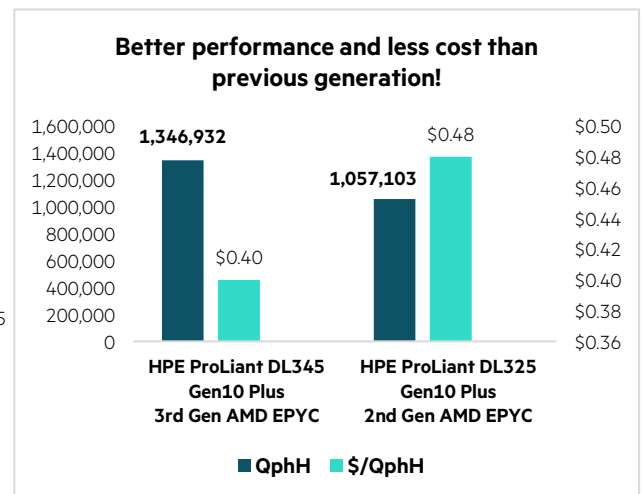
In addition, the HPE ProLiant DL345 Gen10 Plus server achieved the #1 result for non-clustered decision support database workloads, and a gain in pure performance of 27.4% with a reduction in cost of 16.7%<sup>2</sup> compared to the previous generation.



2U/1P: HPE ProLiant DL345 Gen10 Plus

Ideal choice as a storage-optimized solution for database workloads

**FIGURE 2.** The HPE ProLiant DL345 Gen10 Plus server provides 27.4% performance and costs 16.7% less than the previous generation, the HPE ProLiant DL325 Gen10 Plus



## 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.

## BOTTOM LINE

The new HPE ProLiant DL345 Gen10 Plus and DL385 Gen10 Plus v2 servers are game changers for customers who need faster performance at less cost.

## LEARN MORE AT

[HPE ProLiant DL345 Gen10 Plus Documentation](#)

[HPE ProLiant DL385 Gen10 Plus Documentation](#)

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