HPE GreenLake

HPE ProLiant DL380a Gen11 server achieves 3 world records on Artificial Intelligence benchmark

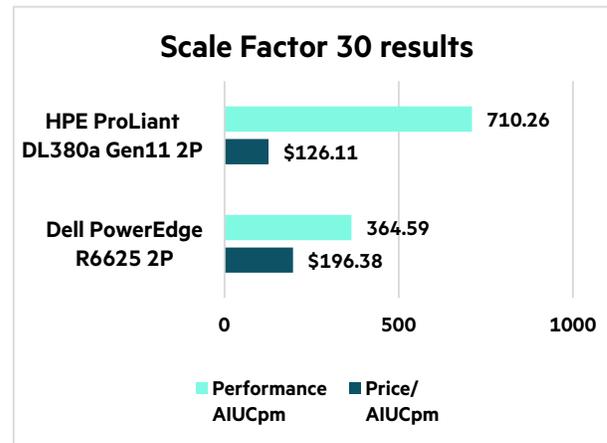## Leadership results on TPCx-AI non-clustered SF 30, SF 10 scale factors

Executive summary

The HPE ProLiant DL380a Gen 11 Server, powered by 4th Generation Intel® Xeon® Scalable Processors, holds **three performance world** records for non-clustered servers on the SF 30 and SF 10 scale factors (SF) of the TPCx-AI benchmark. Compared to the Dell PowerEdge server that was the next competitor in those scale factory categories, the results showed the HPE ProLiant DL380a Gen11 server gained 95% more performance at a 64% lesser cost on the SF 30 category and 46% more performance on the SF 10 SF category.
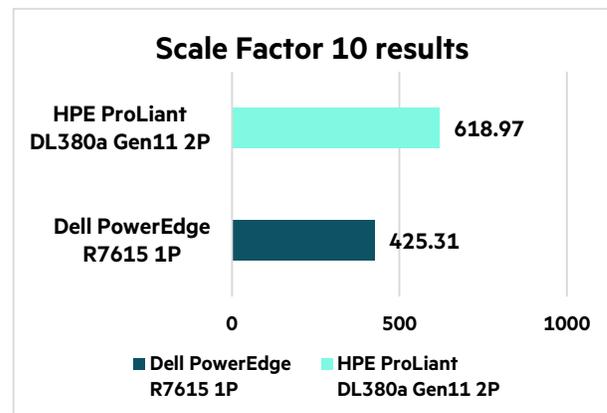
The TPCx-AI benchmark development focuses on emulating the behavior of representative industry AI solutions that are relevant in current production datacenters and cloud environments. Customers are assured leadership performance on HPE ProLiant Gen11 AI systems.

Key takeaways

- **World record performance SF 30**
- **World record price-performance SF 30**
- **World record performance SF 10**
- **95% more performance at a much lesser cost than the previous competitive record holder, Dell PowerEdge R6625**
- **46% more performance than the previous competitive record holder, Dell PowerEdge R7615**

HPE server configurations

HPE ProLiant DL380a Gen11 SF30

- Intel Xeon Platinum 8462Y Processors @ 2.80 GHz
- 2 processors/64 cores/ 128 threads
- 1024 GB memory
- Red Hat Enterprise Linux Server 8.6; Anaconda Pro
- System availability 06/14/2023
- Results: 710.26 AIUCpm@SF30 and $126.11 USD per AIUCpm@SF30
- https://www.tpc.org/5416

HPE ProLiant DL380a Gen11 SF10

- Intel Xeon Platinum 8462Y Processors @ 2.80 GHz
- 2 processors/64 cores/ 128 threads
- 1024 GB memory
- Red Hat Enterprise Linux Server 8.6; Anaconda Pro
- System availability 06/14/2023
- Results: 618.97 AIUCpm@SF10 and $144.71 USD per AIUCpm@SF10
- https://www.tpc.org/5417

All results valid as of 08/23/2023

95% more performance at a **35.7%** lesser cost!

Scale Factor 30 results

HPE ProLiant DL380a Gen11 2P	710.26 / $126.11
Dell PowerEdge R6625 2P	364.59 / $196.38

■ **Performance AIUCpm**   ■ **Price/ AIUCpm**

The HPE ProLiant DL380a Gen11 surpassed the Dell PowerEdge R6625 in performance at a lesser price-performance on the TPCx-AI SF 10 benchmark.

46% more performance!

Scale Factor 10 results

HPE ProLiant DL380a Gen11 2P	618.97
Dell PowerEdge R7615 1P	425.31

■ **Dell PowerEdge R7615 1P**   ■ **HPE ProLiant DL380a Gen11 2P**

The HPE ProLiant DL380a Gen11 also showed more performance than the Dell PowerEdge R7615 on the TPCx-AI SF 30 benchmark.

HPE ProLiant Gen11 servers

HPE ProLiant completes your hybrid environment wherever it lives—datacenter, cloud, edge–combining a cloud operating experience and built-in security, while driving next-generation performance with engineering leadership to power insights, innovation, and competitive advantages to drive businesses forward.

HPE iLO 6 with Security Protocol and Data Module (SPDM) is now integrated into every HPE ProLiant Gen11 server. With HPE iLO 6, you can securely configure, monitor, and update HPE ProLiant Gen11 servers from anywhere. It provides built-in security, as well.

HPE ProLiant DL380a Gen11 Server

Compute engineered for a hybrid world, the HPE ProLiant DL380a Gen11 server is an excellent choice for accelerating enterprise workloads such as AI, IVA, and VD. It is the ideal server for emerging workloads including AI-ML/DL Training and Inferencing, High-Performance Computing, and virtualization environments.

The server runs the 4th Gen Intel® Xeon® Scalable Processors and supports up to 4 double-wide GPUs in a dense 2U 2P form factor. This server offers breakthrough performance with more cores, faster DDR5 memory, and high speed PCIe Gen5 I/O bandwidth while empowering businesses to innovate with advanced GPU accelerators on an ultra-scalable architecture.

HPE GreenLake for Compute

Future-proof your compute landscape with HPE GreenLake edge-to-cloud platform that brings the cloud to you, to your apps and data where they are so you can accelerate time to value, boost operational excellence, free up capital, and free up talent for what's next.

Bottom line

This benchmark performance record is another proof point of the leadership capability of the HPE ProLiant DL560 Gen11 server. HPE continues to be on the cutting edge by designing products that stand the test of time with innovations that are ahead of their time.

Learn more at

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HPE server performance briefs
HPE ProLiant Solutions
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