HPE GreenLake

HPE ProLiant DL380 Gen11 takes world virtualization performance record for 448 total cores on VMmark benchmark

Running more virtual machines with the latest Intel® Xeon® Scalable processors

Executive summary

Packing a virtualization performance punch, the new HPE ProLiant DL380 Gen11 attained leadership by achieving the highest result with 448 total cores on 4-node 2P processors on the VMmark 3.1.1 benchmark. The server took the highest virtualization performance result in the 448-core category with a score of 40.83 @ 42 tiles.

There is a delta of 24% better performance when compared to competitor Fujitsu's score of 33.04 @ 35 tiles. In comparing scores with vSAN, the DL380 Gen11 result beat the score of the xFusion Digital Tech server.

ProLiant Gen11 has a better virtualization score

	Tiles	Score
HPE ProLiant DL380 Gen11 with vSAN	42	40.83
Fujitsu PRIMEQUEST 3800E2	35	33.04
xFusion Digital Tech. 2488H V6 with vSAN	28	27.79

Figure 1. The HPE ProLiant DL380 Gen11 showed higher virtualization performance and more tiles than competitors.

24% higher virtual performance and **20%** more tiles than Fujitsu

47% higher virtual performance and **50%** more tiles than xFusion Digital Tech with vSAN

Customer value with HPE

Introducing HPE ProLiant Gen 11: Compute engineered for your hybrid world

Intuitive   **Trusted**   **Optimized**

ProLiant Gen11 servers

New HPE ProLiant Gen11 servers deliver an intuitive cloud operating experience, trusted security by design, and optimized performance for workloads.

HPE ProLiant DL380 Gen 11

Adaptable for diverse workloads and environments, the secure 2P 2U HPE ProLiant DL380 Gen11 delivers world-class performance with the right balance of expandability and

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Key takeaways

HPE ProLiant DL380 Gen11

- **#1 virtualization performance record with 448 total cores**
  - **24% better virtualization performance score and 7 more tiles than the previous record holder, Fujitsu PRIMEQUEST 3800E2**
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- **#1 virtualization performance record with 448 total cores with vSAN storage**
  - **47% better virtualization performance score with vSAN and 16 more tiles than the previous record holder, xFusion Digital Tech**

Configuration

HPE ProLiant DL380 Gen11

2 sockets/112 cores/224 threads; Intel Xeon Platinum 8480+ processors; 2.0-3.8 (Turbo) GHz; vSAN, FC SAN storage; 2048 GB memory; VMware ESXi 8.0a, VMware vCenter 8.0

VMmark 3.1.1 score

The competitive benchmark claims are based on having the best 448 total core count result and best 448 total core count with vSAN storage result on the VMmark 3.1.1 benchmark, with a score of 40.83 @ 42 tiles.
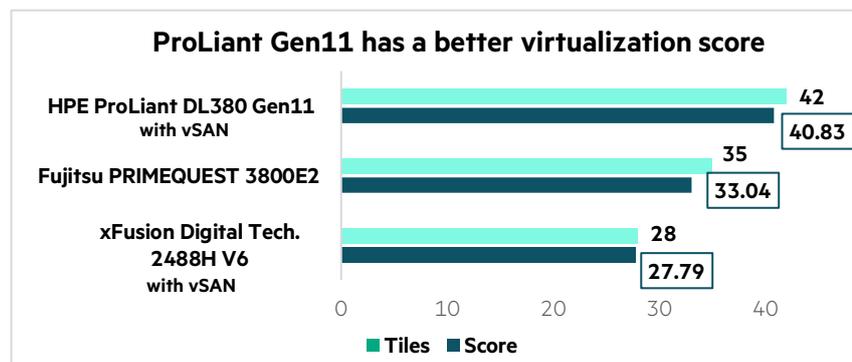
All results valid as of 1-10-2023.

See https://www.vmware.com/products/vmmark/results3x.html

For the full disclosure reports, see
- HPE ProLiant DL380 Gen11 FDR
- Fujitsu PRIMEQUEST 3800E2 FDR
- xFusion Digital Tech. 2488H V6 FDR

Competitor configurations

Fujitsu PRIMEQUEST 3800E2

8 sockets/2 nodes/224 cores/448 threads; Intel Xeon Platinum 8280 processors; 2.7 GHz; FC SAN storage; 3072 GB memory; VMware ESXi 6.7 EP 06, VMware vCenter 6.70d

VMmark 3.1.1 score: 33.04 @ 35 tiles

xFusion Digital Technologies Co., Ltd. 2488H V6

16 sockets/4 nodes/112 cores/224 threads; Intel Xeon Platinum 8380H processors; 2.9 GHz; 2.7 GHz; vSAN 7.0 storage; 1536 GB memory; VMware ESXi 7.0 U2 EP; VMware vCenter 7.0 U2

VMmark 3.x score: 27.79 @ 28 tiles

About the VMmark benchmark

VMmark 3.1.1 generates a realistic measure of platform performance by incorporating a variety of platform-level workloads such as shared nothing migration, virtual machine migration, clone and deploy, and snapshotting. Source: vmware.com/.

scalability. Designed for supreme versatility and resiliency while being backed by a comprehensive warranty make it ideal for multiple environments from Containers to Cloud to Big Data. Customers can standardize on the industry's most trusted compute platform.

HPE Security

HPE enhanced its leading cloud platform with an innovative compute foundation that can unify and modernize data everywhere, from the edge to the cloud. At the silicon level, HPE security technological innovations continuously provide zero-trust architecture against more advanced persistent security threats. Through iLO 6 verification in Gen11, new security features include platform certificates iDevID by default and TPM.

HPE GreenLake

HPE GreenLake for Compute Ops Management (COM) Standard tier license is integrated. HPE ProLiant Gen11 servers have the most innovative advances HPE has ever offered. HPE ProLiant completes the hybrid environment wherever it lives—spanning edge to cloud.

HPE and VMware vSAN

With a 75-year history of IT innovation, HPE and VMware have worked together to deliver game-changing results to their shared 200,000+ customers. Running on HPE servers, vSAN becomes a hyperconverged infrastructure that lowers storage costs 40% or more versus traditional server and storage architectures. Given their consistency and flexibility, HPE servers + vSAN provide the simplest path: from server virtualization to hyperconverged infrastructure toward a true hybrid cloud architecture.[1] Selling more than 500,000 VMware licenses in the last five years, HPE is the global leader in server virtualization solutions based on VMware technology.[2]

Bottom line

This benchmark performance record is a proof point for the leadership capability of the new HPE ProLiant Gen11 servers.

With the proven ability to run more tiles, HPE ProLiant servers give businesses the power to consolidate their compute footprint by packing more VMs into fewer servers. 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.
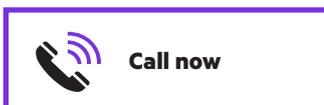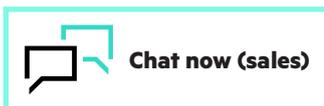
Learn more at

HPE ProLiant DL380 Gen11 Documents

HPE server performance briefs

[1] VMware and vSAN
[2] HPE and VMware partnership

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