Hewlett Packard Enterprise

Performance brief

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HPE PROLIANT DL380 GEN10 PLUS OWNS BEST 320 TOTAL CORE COUNT VIRTUALIZATION PERFORMANCE RESULT

Leadership with 3rd Gen Intel® Xeon® Platinum Scalable processors on VMmark 3.1.1 benchmark



Key takeaways

- **#1 VMmark 3.x core result with 320 total cores**
- **Top 3-node VMmark 3.x result**
- **HPE 4-node result is 100% higher and the 3-node result is 51% higher than the top 4-node 2P result from Fujitsu**
- **HPE 4-node result is 128% higher and the 3-node is 72% higher than the top 4-node 2P result from Supermicro**

Configurations

HPE ProLiant DL380 Gen10 Plus 4-node

HPE ProLiant 380 Gen10 Plus with Intel Xeon Platinum 8380 2.3/3.4 GHz processors, 32 x 64 GB DDR4 RDIMMs at 3200 MHz proves

- 4 nodes/8 sockets, 4 processors/320 cores/ 640 threads
- Primary storage: VMware vSAN– 4 Disc Groups per host; 16 x HPE 800GB SAS 12G Write-Intensive SFF SC SS540 SSDs for vSAN cache tier and 80 x HPE 1.6 TB SAS 12 G Mixed-Use SFF SC SS540 SSDs for vSAN capacity tier

HPE ProLiant DL380 Gen10 Plus 3-node

HPE ProLiant 380 Gen10 Plus with Intel Xeon Platinum 8380 2.3/3.4 GHZ processors, 32 x 64 GB DDR4 RDIMMs at 3200 MHz RDIMM

- 3 nodes/6 sockets, 3 processors/240 cores/ 480 threads
- Primary storage: VMware vSAN– 4 Disc Groups per host; 12 x HPE 800 GB SAS 12G Write-Intensive SFF SC SS540 SSDs for vSAN cache tier and 60 x HPE 1.6 TB SAS 12 G Mixed-Use SFF SC SS540 SSDs for vSAN capacity tier

4 node: The competitive benchmark claims are based on being the best 320 total core count-result on the VMmark 3.1.1 benchmark with a score of 24.26 @ 26 tiles.

3 node: The competitive benchmark claims are based on being the best 3-node result on the VMmark 3.1.1 benchmark, with a score of 18.31 @ 20 tiles.

VMmark disclosures are available at vmware.com/products/vmmark/results3x.html.

Results published as of June 15, 2021.

EXECUTIVE SUMMARY

The HPE ProLiant DL380 Gen10 Plus holds the overall top 320 total core count result on the VMmark 3.1.1 benchmark. The server scored 24.26 @ 26 tiles with four Intel® Xeon® Platinum 8380 processors and was configured with VMware vSAN. In addition, the server took the top performance score for 3-node VMmark results with a similar configuration and a result of 18.31 @ 20 tiles.

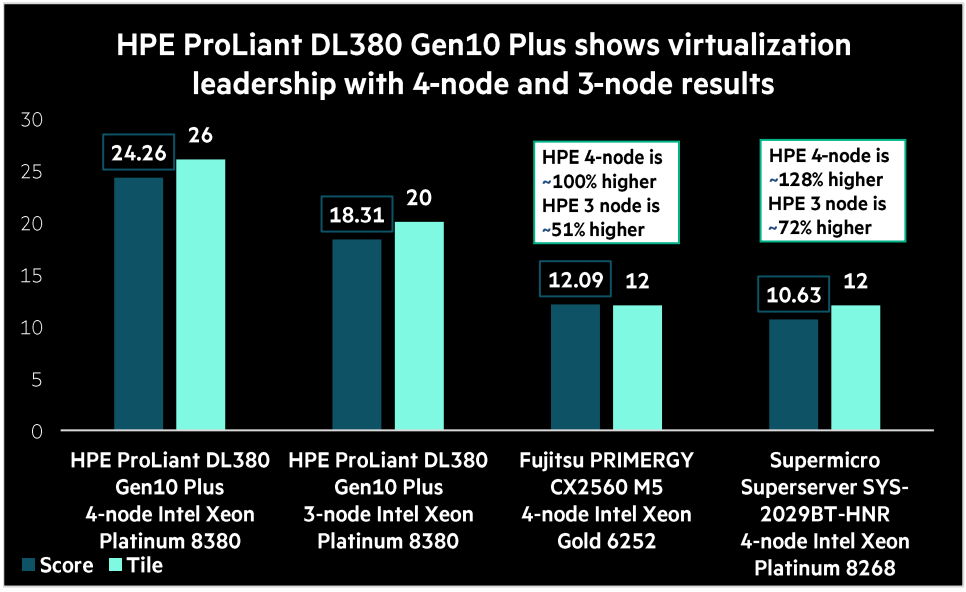


FIGURE 2. HPE ProLiant DL380 Gen10 Plus with 4 nodes and 3 nodes compared to the top 4-node 2P results from Fujitsu and Supermicro.

CUSTOMER VALUE

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.

VMmark vSAN. VMware vSAN is a radically simple, enterprise-class, SDS solution that pools direct-attached storage devices across a VMware vSphere® cluster to create a distributed shared datastore. Since disks internal to HPE ProLiant DL380 Gen10 Servers are used to create a vSAN datastore, there is no need for costly, complex external shared storage. The scale-out architecture leverages x86 servers and server-side hybrid storage to drastically lower overall storage total cost of ownership (TCO). The product's seamless integration with VMware vSphere and VMware vCenter Server® makes it the simplest storage platform for SMBs.

BOTTOM LINE

The HPE ProLiant DL380 Gen10 Plus benchmark results indicate that the platform is a front-runner for overall and 2P virtualization. HPE goes the extra mile to fast-forward customer success.

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/

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