



Key takeaways

- **HPE Synergy 480 Gen 9 holds the #1 worldwide record on the VMmark 2.x benchmark**
 - 41% better performance than previous #1 result
 - 20 more tiles/160 more virtual machines (VMs) than previous #1 result
 - Showcases HPE performance engineering prowess: no other vendor has exceeded an eight-host configuration
- **HPE Synergy 480 Gen9 Compute Module is the first Composable Infrastructure platform to deliver results on the VMmark benchmark**

Server configurations:

HPE Synergy 480 Gen9
Intel Xeon E5-2699 v4 2.20 GHZ processors, 10 hosts, 20 sockets
Score: 161.99 @ 120 tiles
May 2017

Fujitsu PRIMEQUEST 2800E3
Intel Xeon E7-8890 v4 2.20 GHZ processors, 4 hosts, 16 total sockets
Score: 114.47 @ 100 tiles
August 2016

Huawei FusionServer RH5885H V3
Intel Xeon E7-8890 v4 2.20 GHZ processors, 2 hosts, 8 total sockets
Score: 60.63 @ 50 tiles
June 2016

Cisco UCS B200 M3
Intel Xeon E5-2690 2.9 GHZ processors, 8 hosts, 16 total sockets
Score: 42.79 @ 36 tiles
September 2012

Dell PowerEdge R620
Intel Xeon E5-2695 v2 2.4 GHZ processors, 6 hosts, 12 total sockets
Score: 31.35 @ 30 tiles
August 2014

For more information:

HPE Synergy 480 Gen9:
<http://www.hpe.com/info/synergy>
HPE 3PAR StoreServ Storage:
hpe.com/us/en/storage/3par.html

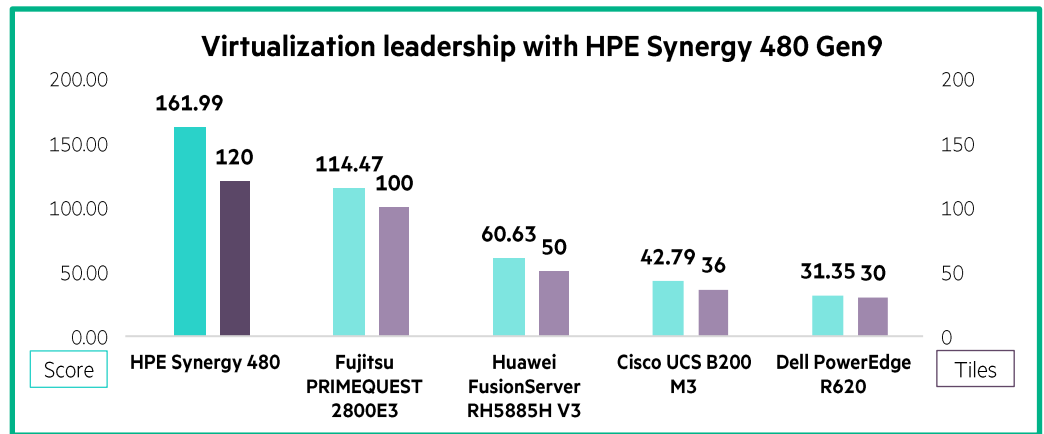
HPE Synergy 480 Gen9 Compute Module achieves #1 world record on VMmark 2.5.2 benchmark

HPE demonstrates performance engineering prowess with 10-node configuration

Executive summary

The HPE Synergy 480 Gen9 Compute Module achieved the #1 world record on the VMmark 2.x benchmark, blazing to the top with a score of 161.99 @ 120 tiles. This top-scoring configuration included ten servers with a total of twenty Intel® Xeon® E5-2699 v4 processors running VMware ESXi 6.0 U2.

Figure 1. HPE world record result compared to the top result from four other vendors on the VMmark 2.x benchmark.



Composable compute provides the greatest customer value

HPE Synergy is the world's first platform architected for Composable Infrastructure—built from the ground up to bridge traditional and new IT with the agility, speed, and continuous delivery needed for today's applications. The HPE Synergy 480 Gen9 Compute Module is also now certified for Oracle® VM and Oracle® Linux.¹

Simplifies operations: The HPE Synergy 480 Gen9 Compute Module provides a composable compute resource that can be self-discovered, quickly provisioned, easily managed, and seamlessly redeployed to deliver the right compute capacity for changing workload needs. HPE Synergy template-based provisioning enables fast time to service with a single point for defining compute module state, pooled storage, network connectivity, and boot image.

Adds flexibility: The flexible design supports stateless configuration, or with up to two local Small Form Factor (SFF) or four uFF drives, NVMe PCIe workload acceleration, and direct-attach composable storage to match demanding workload, data protection, and data security requirements.

Increases agility: With the HPE Synergy Composable Infrastructure, changes such as updating firmware, adding storage, or modifying network connectivity are implemented automatically through software-defined intelligence to reduce downtime, manual operations, and errors.

Lowers TCO: The HPE Synergy 480 Gen9 delivers superior capacity, efficiency, and flexibility to power more demanding workloads and increase virtual machine density by providing a full range of processor choices, right-sized storage options and a simplified I/O architecture. The platform supports up to two Intel® Xeon® E5-2600 series processors and 1.5 TB of HPE DDR4 SmartMemory in a half-height form factor and is ideal for general-purpose enterprise workload performance now and in the future.

HPE 3PAR StoreServ Storage

The winning HPE benchmark configuration included HPE 3PAR StoreServ Storage, Tier 1 all-flash array data storage that can scale to the largest enterprises and service providers. HPE 3PAR StoreServ Storage provides instant application provisioning and 99.9999% availability, at just pennies per usable gigabyte per month. Models are available from a few TBs to more than 20 PB, and performance that can surpass 3 million IOPS for some configuration.



¹Oracle Hardware Certification List
<https://linux.oracle.com/pls/apex/f?p=117:1::NORP:>