



Key takeaways



HPE ProLiant DL385 Gen10

- **Much lower cost per server performance – 24% less than the Lenovo ThinkSystem SR650**
- **Designed for and excels in virtualized environments**
- **Using AMD EPYC processors brings the balance of resources required to fully utilize the CPU—optimally running disparate workloads to make virtualization a foundation of digital transformation.**

About the SPECvirt_sc2013 benchmark

The SPECvirt_sc2013 benchmark shows a server's capability to consolidate multiple servers running different applications onto a single system with multiple virtual machines. The benchmark provides four workloads based on real-world traffic faced by a web server, a Java application server, an IMAP server, and a batch server. It models multi-tiered applications and database environments that require enterprise-class virtual machines.²

For more information:

HPE Server benchmarks
hpe.com/servers/benchmarks
HPE ProLiant DL385 Gen10
hpe.com/servers/dl385gen-10

¹ Based on projected configuration and pricing. Lenovo pricing from lenovo.com and HPE pricing from hpe.com on 1/11/2018

² spec.org/virt_sc2013/press/release.html

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HPE ProLiant DL385 Gen10 Server Delivers Lower-Cost Virtualization Solution on the SPECvirt_sc2013 Benchmark

Using AMD EPYC™ architecture for price/performance advantage vs. Lenovo

Executive summary

The **HPE ProLiant DL385 Gen10 is a game-changer for low-cost virtualization**. The ProLiant DL385 Gen10 delivers a new formula for server virtualization and excels in virtualization consolidation by delivering a 24% price/performance advantage when comparing its SPECvirt_sc2013 benchmark results to the Lenovo ThinkSystem SR650.

The ProLiant DL385 Gen10 delivered a SPECvirt_sc2013 score of 2,958@168 VMs with a per server price of \$89,699.¹ The Lenovo ThinkSystem SR650 score was 3,376@189 VMs with a per server price of \$133,986.¹ These scores yield a price/performance value ([system price] / [SPECvirt_sc2013 score]) of 30.32 \$/SPECvirt_sc2013 for the ProLiant DL385 Gen10. The Lenovo price/performance value is much higher at 39.69 \$/SPECvirt_sc2013.

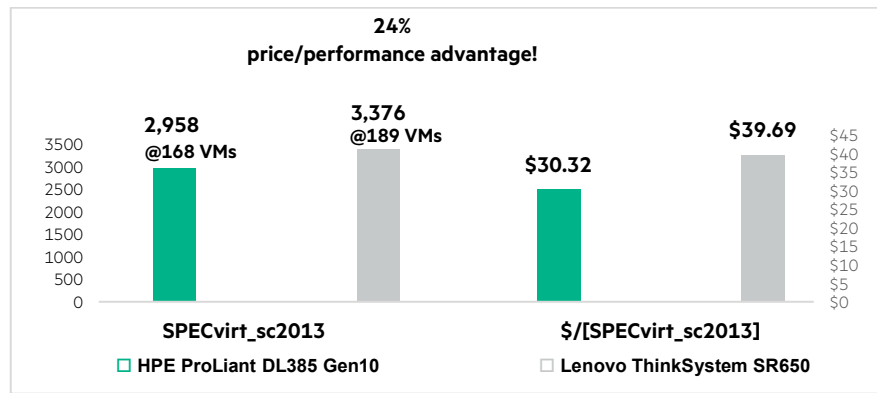


Figure 1. HPE ProLiant DL385 Gen10 and Lenovo SR650 price/performance and scores on the SPECvirt_sc2013 benchmark.

New HPE ProLiant DL385 Gen10

The HPE ProLiant DL385 draws significantly from the HPE ProLiant DL380, the world's best-selling server and one of the most flexible offerings on the market. The marriage of the HPE server pedigree to the AMD architecture takes full advantage of the large memory footprint and high core count to remove bottlenecks in memory and I/O.

Table 1. SPECvirt_sc2013 results and configuration details for the HPE ProLiant DL385 Gen10 and Lenovo ThinkSystem SR650.

Server Configuration	SPECvirt_sc2013	Price	Price / performance
HPE ProLiant DL385 Gen10 2 x 32-core AMD EPYC 7601 processors, 16 x 64 GB PC4-2666 MHz DDR4 LRDIMMs, 6 x 1.6 TB 12G SAS SSDs, 1 x HPE SA P408i-a and 1 x HPE SA P408i-p adapters, 4 x 10GbE 2-port 562 SFP+ adapters	2,958@168 VMs	\$89,699	\$30.32
Lenovo ThinkSystem SR650 2 x 28-core Intel® Xeon Platinum 8180 processors, 24 x 32 GB PC4-2666 MHz RDIMMs, 8 x 3.84 TB 12G SAS SSDs, 2 x ThinkSystem RAID 930-8i-2GB 12Gb Adapters, 2 x Intel X710-DA2 10GbE 2-port adapters	3,376@189 VMs	\$133,986	\$39.69

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