

HPE ProLiant ML30 Gen11 server beats competition on all four base metrics of SPEC CPU® 2017 benchmark

Top single-socket tower results and excellent generational gains



Key takeaways

HPE ProLiant ML30 Gen11 scores on the SPEC CPU 2017 benchmark represent the following:

- #1 single-socket tower result on SPECspeed2017_int_base
- #1 single-socket tower result with Intel Xeon Processors

SPECrate2017_fp_base deltas:

- 6.5% higher than Dell PowerEdge T360
- 3.63% higher than Lenovo ThinkSystem ST250 V3

SPECrate2017_int_base deltas:

- 5% higher than Dell PowerEdge T360
- 6.6% higher than Lenovo ThinkSystem ST250 V3

SPECspeed2017_int_base deltas:

- 7% higher than Dell PowerEdge T360
- 6% higher than Lenovo ThinkSystem ST250

SPECspeed2017_int_base deltas:

- 22.2% higher than Dell PowerEdge T360
- 2.8% higher than Lenovo ThinkSystem ST250 V3

Generational gains:

- SPECrate2017_fp_base: 93.8%
- SPECrate2017_int_base: 37%
- SPECspeed2017_fp_base: 100%
- SPECspeed2017_int_base: 14.5%

Executive summary

The HPE ProLiant ML30 Gen11 achieved superior results versus Dell and Lenovo 1P tower servers on four metrics of the SPEC CPU 2017 benchmark. The integer rate and floating point rate metrics measure the multi-core throughput performance of integer and floating point workloads, while integer speed and floating point speed metrics measure the single-threaded performance of integer and floating point workloads respectively.

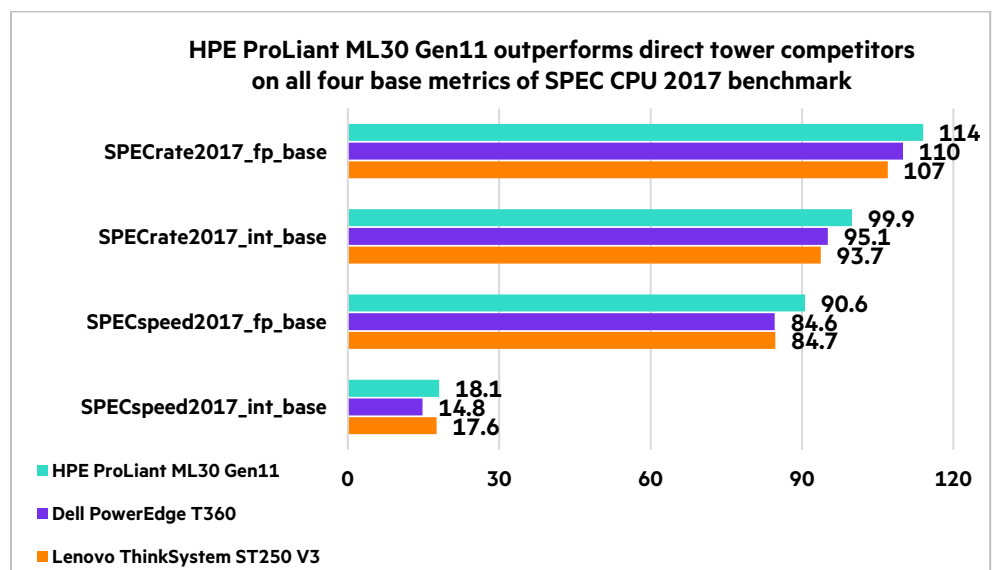


Figure 1. HPE ProLiant ML30 Gen11 and direct tower results

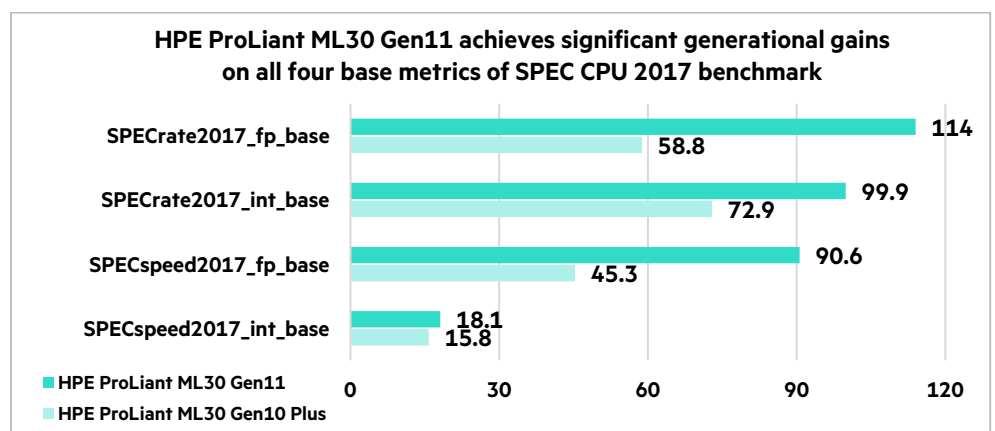


Figure 2. HPE ProLiant ML30 Gen11 and HPE ProLiant ML30 Gen10 Plus results

About the SPEC CPU 2017 benchmark

The SPEC CPU 2017 benchmark package contains SPEC's next-generation, industry-standardized, CPU intensive suites for measuring and comparing compute-intensive performance, stressing a system's processor, memory subsystem, and compiler.

The benchmarks are provided as source code and require the use of compiler commands as well as other commands via a shell or command prompt window. SPEC CPU 2017 also includes an optional metric for measuring energy consumption. See <https://www.spec.org/cpu2017/>.

Customer value with HPE

HPE ProLiant ML30 Gen11 Server. The HPE ProLiant ML30 Gen11 is a powerful, yet affordable tower server designed for small offices, remote and branch offices to run on-premises and hybrid cloud solutions, delivering enterprise-class performance, security, reliability, and expandability at a low cost. Hewlett Packard Enterprise builds security right into the server with HPE iLO silicon root of trust. A redundant power supply option and up to 4 LFF or 8 SFF hot-plug HDDs provide availability and flexibility. The enhanced expansion capability, now including PCIe Gen5, allows upgrading with serial attached SCSI (SAS) controllers or networking cards as a business grows, which can give customers an extra edge.

Security. HPE is the only vendor delivering silicon root of trust built into the hardware, covering all firmware and BIOS, and enabling end-to-end lifecycle security, powered by robust HPE iLO 6 server management. HPE Secure Supply Chain extends to over 150 countries, and Platform Certificates enable zero-trust provisioning.

Bottom line

The HPE ProLiant ML30 Gen 11 platform delivers the performance proof points businesses need for compute-intensive general purpose workloads.

Learn more

[HPE ProLiant ML30 Gen11 Server](#)

[HPE server performance briefs](#)

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