

HPE ProLiant DL20 Gen11 server beats direct competitors from Dell and Lenovo on all base metrics of SPEC CPU® 2017 benchmark



Key takeaways

HPE ProLiant DL20 Gen11 scores on the SPEC CPU 2017 benchmark represent the following:

- Beats Dell and Lenovo equivalent systems
- #2 single-socket Intel® Xeon® rack server result;
- #3 single-socket Intel Xeon processor result
- #4 single-socket result
- SPECrate2017_fp_base metric:
 - 3.63% higher than Dell PowerEdge R360
 - 4.58% higher than Lenovo ThinkSystem SR250 V3
- SPECrate2017_int_base metric:
 - 5.15% higher than Dell PowerEdge R360
 - 6.04% higher than Lenovo ThinkSystem SR250 V3
- SPECSpeed2017_fp_base metric:
 - 7.44% higher than Dell PowerEdge R360
 - 6.31% higher than Lenovo ThinkSystem SR250
- SPECSpeed2017_int_base metric:
 - 21.76% higher than Dell PowerEdge R360
 - 2.28% higher than Lenovo ThinkSystem SR250 V3
- Generational gains:
 - SPECrate2017_fp_base: 94.2%
 - SPECrate2017_int_base: 38.12%
 - SPECSpeed2017_fp_base: 101.11%
 - SPECSpeed2017_int_base: 13.29%

Excellent competitive results and generational gains on compute-intensive general-purpose workload

Executive summary

The [HPE ProLiant DL20 Gen11](#) achieved excellent generational gains and superior results on all four base metrics of the SPEC CPU® 2017 benchmark versus Dell and Lenovo competitor 1P rack servers configured with Intel® Xeon® E-2488 processors. 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.

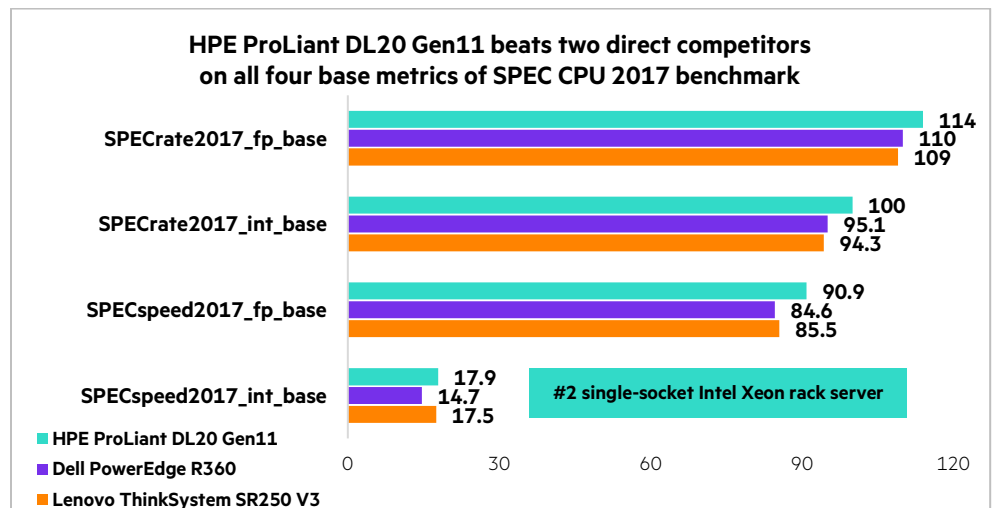


Figure 1. HPE ProLiant DL20 Gen11 and direct competitor top results

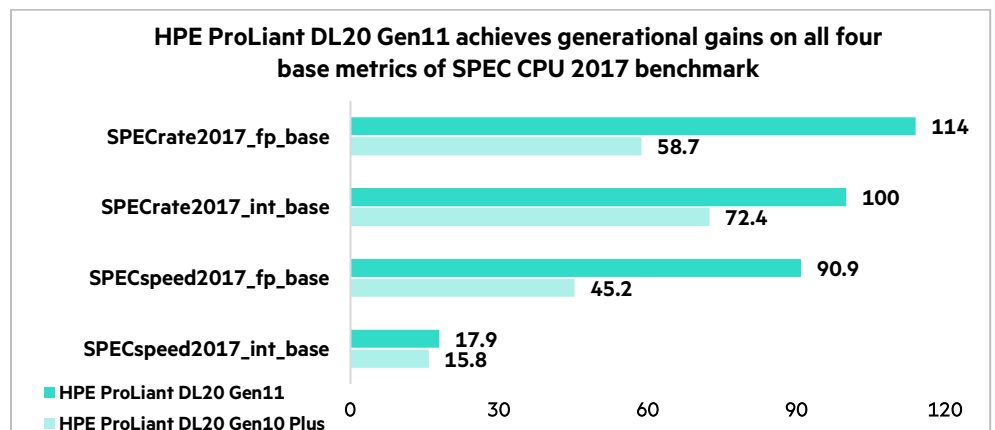


Figure 2. HPE ProLiant DL20 Gen11 and HPE ProLiant DL20 Gen10 Plus top results

Benchmark and performance guide

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.

<https://www.spec.org/cpu2017/>

Customer value with HPE

HPE ProLiant DL20 Gen11 Server. The reliable HPE ProLiant DL20 Gen11 server delivers a compact and versatile server with enhanced security at an affordable price. Deploy the short-depth rack form factor in small, remote, or branch offices, as a powerful point of sale platform in transport, retail, and hospitality environments or as a flexible configuration for customization in space constrained environments of military and government customers. Blending performance, reliability, and manageability, this one-socket, 1U server featuring Intel Xeon E processors provides unique enterprise-class capabilities at a great value—making it an ideal rack server platform for growing businesses, enterprises, and service providers. Outstanding configuration flexibility caters to a variety of business requirements and a wide range of qualified options fits a variety of needs.

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 DL20 Gen 11 Server delivers the performance proof points businesses need for compute-intensive general purpose workloads.

Learn more

[HPE ProLiant DL20 Gen11 Server](#)

[HPE server performance briefs](#)

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