# HPE ProLiant DL145 Gen11 sweeps SPEC CPU 2017 benchmark with single AMD EPYC 8635P

## Exceptional compute-intensive performance results



**Key takeaways**

HPE ProLiant Compute DL145 Gen11 Server with single AMD EPYC 8635P Processor achieved:

**8 world records on SPEC CPU 2017 benchmark**

- SPECspeed 2017_int_base
- SPECspeed 2017_int_peak
- SPECspeed 2017_fp_base
- SPECspeed 2017_fp_peak
- SPECrate 2017_int_base
- SPECrate 2017_int_peak
- SPECrate 2017_fp_base
- SPECrate 2017_fp_peak

**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.

See spec.org/cpu2017/.

## Executive summary

The HPE ProLiant DL145 Gen11, powered by a single AMD EPYC™ processor, sets new world records across the SPEC CPU® 2017 benchmark suite, achieving #1 peak and base scores for both integer and floating-point performance. With these outstanding results, customers can confidently select this server to handle compute-intensive workloads, whether for integer or floating-point operations, high-speed processing, or demanding performance rates.

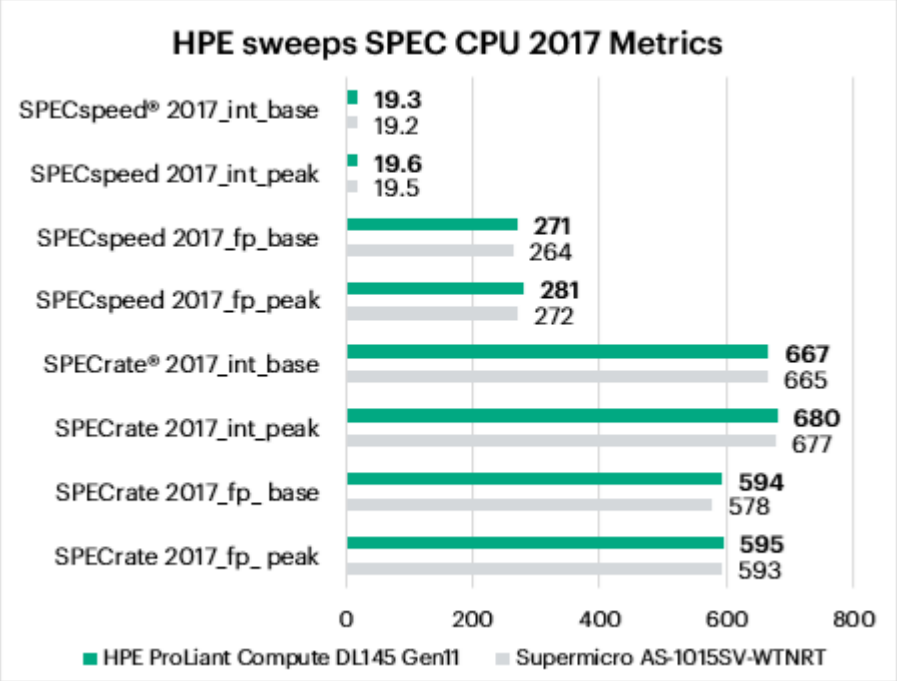



**Figure 1.** Top two SPEC CPU 2017 results with single AMD EPYC 8635P processor

## Customer value with HPE

### HPE ProLiant Compute DL145 Gen11

The HPE ProLiant DL145 Gen11 is a 2U, single-processor, robust edge computing server designed to cater to the needs of Retail, Manufacturing, Telecommunications, and various other industries, and offers a compelling alternative to traditional servers with its sleek design, affordable pricing, and quiet operation. Powered by the 4th and 5th generation AMD EPYC™ 8004/8005 Zen4c/Zen5 architecture, it provides up to 84 energy-efficient cores, PCIe Gen5 speed, support for 3x single-wide GPUs or 1x double-wide GPU, and high-performance EDSFF storage. It can operate continuously in temperatures ranging up to 55°C and withstand high-dust and high-vibration environments and is engineered for today's hybrid world, allowing enterprises to virtualize traditional IT applications to power their businesses and accelerate AI success.

**Customer insights with the SPEC CPU 2017 benchmark**

Customers use benchmark results to gain a standardized and objective method to compare the performance of different computer systems.

The SPEC CPU 2017 suite consists of 43 diverse benchmarks organized into four suites that model rich, compute-intensive environments in mathematics, sciences, and business applications. The results help customers to see a server's capability and speed in running workloads related to real-world problems of R&D environments and highly specialized scientific and technical fields.

The SPEC CPU 2017 benchmark provides insights into a system's ability to handle compute-intensive tasks, including integer and floating-point operations, which are crucial for various applications.

## Security

HPE delivers trusted security by design, with silicon root of trust from HPE, enabled by HPE Integrated Lights-Out (HPE iLO). Hardware-based security starts with HPE iLO, building on a proven 20-year history with new features that strengthen security. HPE innovates supply chain security, provisioning servers with initial device identification to further enable a zero trust environment, which allows the cryptographic authentication of HPE servers and HPE iLO.

# Bottom line

These performance benchmark records are proof points for the compute-intensive performance capability of the HPE ProLiant Compute DL145 Gen11. HPE continues to be on the cutting edge by designing products that stand the test of time with innovations that are ahead of their time.

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