

ACCELERATE YOUR DIGITAL TRANSFORMATION WITH HPE AND AMD

HPE WITH AMD SERVERS—MORE THAN A PRODUCT: AN EXPERIENCE

HPE with AMD EPYC™ processors delivers exceptional server optimization, security, and automation to establish a solid foundation for an open, future-ready hybrid cloud experience.

TRUSTED LEADERS IN PERFORMANCE

From SMB, to enterprise, to Exascale—the world's highest performance x86 processor¹ provider and the top-selling server company² deliver performance for your most demanding workloads.

DATA SECURITY ACROSS THE SYSTEM LIFECYCLE

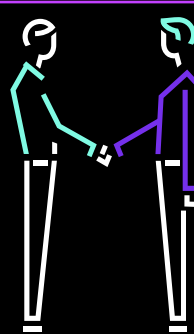
Providing the confidence of built-in processor security features to the world's most secure industry-standard servers³, HPE and AMD bring high availability to your most critical workloads, helping secure data across the product lifecycle.

FLEXIBILITY TO MAXIMIZE EFFICIENCY

From the edge, to core, to hybrid cloud, HPE and AMD offer a workload-optimized portfolio with an as-a-service option—enabling customers with maximized business efficiency and

HPE AND AMD—SOLUTIONS THAT JUST WORK

Solutions can be combined with a robust and rapidly expanding ecosystem of partners that provides choice and innovation with optimized solutions that are tested, proven, validated, and



HPE AND AMD—BETTER TOGETHER

HPE servers with AMD EPYC™ processors allow customers to focus on their business by delivering workload-optimized solutions, enhanced security, and advanced automation. With decades of engineering experience, HPE and AMD hold 32 world records⁴ in Big Data & Analytics, Virtualization, Cloud, Energy Efficiency, and many other areas.

WORKLOAD OPTIMIZED SOLUTIONS FROM HPE AND AMD

Virtualization

High core count and memory capacity provide robust virtual machine (VM), container, and application density while maximizing processor utilization.

Cost-optimized VDI—HPE ProLiant DL325 Gen10 Plus v2 Server
Performance VDI—HPE ProLiant DL365 Gen10 Plus Server

Database Management

Greater I/O capacity, maximized I/O slots and storage capacity to address address compute-heavy database workloads.

HPE ProLiant DL345 Gen10 Plus Server

Big Data Analytics

High core count and memory capacity with greater I/O capacity. Plus, a large number of PCIe 4.0 lanes reduces latency and improves bandwidth for data-heavy workloads.

HPE ProLiant DL385 Gen10 Plus v2 Server

AI/Machine Learning

Support for multiple high core count CPUs with large memory capacity and GPU accelerators provide a performance boost to accelerate processing output.

Video Transcoding—HPE ProLiant DL385 Gen10 Plus v2 Server
Accelerated Compute—HPE Apollo 6500 Gen10 Plus

High Performance Computing

High core count and memory capacity with increased I/O capacity, and support for GPU accelerators to speed compute-intensive applications.

HPE Apollo Systems and HPE Cray EX Systems

HPE AND AMD PROCESSOR-BASED SERVERS OFFER:

Faster Time to Value

An AMD processor-based HPE server with a single processor can deliver similar performance as a dual-processor Intel®-based HPE server⁵, offering two key savings:

- Fewer processors and cores can reduce hardware and software costs
- Increased processing power in a smaller footprint can reduce power, cooling, and real estate costs

Workload Optimization with Intelligent Automation

Advanced features and ground-breaking application performance deliver insights and value faster. An intelligent server that collects information on its operations, sharing it through a standards-based API with tools for higher-level management, optimization, and orchestration, and real-time performance tuning recommendations to maximize performance.

- Management tasks are simplified and automated
- Workload performance, placement, and efficiency are optimized
- The AMD and HPE combination provides an intelligent foundation for an open, hybrid cloud platform enabled by composability

360 Degree Security

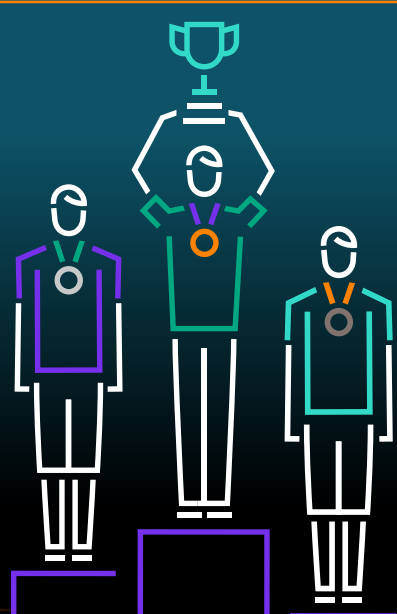
AMD processor-based HPE systems are designed to detect threats and protect against attacks with HPE exclusive Silicon Root of Trust and AMD exclusive Infinity Guard for a modern multi-faceted approach to data center security.

- Silicon Root of Trust guards the integrity of system firmware
- AMD Infinity Guard includes Secure Memory Encryption (SME) to help safeguard data in certain physical attacks, Secure Encrypted Virtualization (SEV) to help protect data in virtualized environments, and Secure Nested Paging (SEV-SNP) to help prevent hypervisor-based attacks.

HPE AND AMD—THE WINNING COMBINATION FOR DATA CENTER TRANSFORMATION

AMD and HPE are trusted leaders in performance. Silicon root of trust from HPE, combined with the inherent security and encryption capabilities of AMD Infinity Guard, delivers foundational security at the hardware and firmware level, workload-optimized performance, and low TCO.

AMD and HPE solutions just work. It doesn't matter what the workload or deployment model is, the combination of HPE and AMD can meet the challenge of any workload a customer faces. Both companies have an expanding ecosystem of software partners, ISV coverage, and solution certifications to provide the right solution.



LEARN MORE AT

[HPE and AMD—Delivering EPYC Solutions Together—webpage](#)

[HPE and AMD, Delivering EPYC Solutions Together—video](#)

[32 reasons why HPE ProLiant servers with AMD EPYC processors define innovation—blog](#)

[HPE and AMD—analyst report](#)

¹ Results as of Jan 28, 2021 using SPECrate®2017_int_base. The AMD EPYC 7763 a measured estimated score of 798 is higher than the current highest 2P server with an AMD EPYC 7H12 and a score of 717. [spec.org/cpu2017/results/res2020q2/cpu2017-20200525-22554.pdf](https://www.spec.org/cpu2017/results/res2020q2/cpu2017-20200525-22554.pdf), OEM published scores for 3rd Gen EPYC may vary. See [spec.org](https://www.spec.org) for more information.

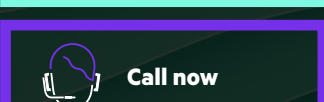
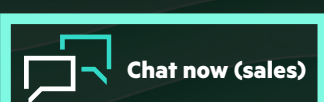
² "Worldwide Server Market Revenue Grew 1.5% Year Over Year in the Fourth Quarter of 2020, according to IDC," IDC, Mar. 2021; According to IDC, HPE and Dell tied for top position in 4Q 2020 worldwide server market share.

³ Based on external security firm conducting cybersecurity penetration testing of HPE Gen10 servers and three leading server competitors, September 2019

⁴ As of March 15, 2021, more information: [32 reasons why HPE ProLiant servers with AMD EPYC processors define innovation](#).

⁵ SPECrate®2017_int_base comparison based on best performing systems published at [spec.org](https://www.spec.org) as of 05/25/2021. 1x AMD EPYC 7543P (274 SPECrate®2017_int_base, [spec.org/cpu2017/results/res2021q2/cpu2017-20210524-26398.html](https://www.spec.org/cpu2017/results/res2021q2/cpu2017-20210524-26398.html)) versus 2x Intel® Xeon® Gold 6346 (285 SPECrate®2017_int_base, [spec.org/cpu2017/results/res2021q2/cpu2017-20210524-26461.html](https://www.spec.org/cpu2017/results/res2021q2/cpu2017-20210524-26461.html)) SPEC®, SPEC CPU®, and SPECrate® are registered trademarks of the Standard Performance Evaluation Corporation. See [spec.org](https://www.spec.org) for more information.

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