Hewlett Packard Enterprise | AMD

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ACCELERATE YOUR DIGITAL TRANSFORMATION WITH HPE AND AMD

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

HPE with AMD deliver 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 processor[1] provider and the top-selling server company[2] 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 servers[3], 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 operational agility in a cloud-like experience.

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 certified against your challenges.
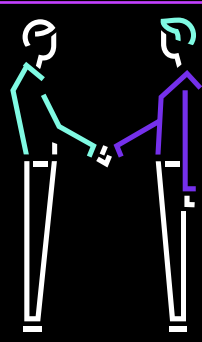
HPE AND AMD—BETTER TOGETHER

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 records[4] 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 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 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 server[5], 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. HPE's silicon root of trust, 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.
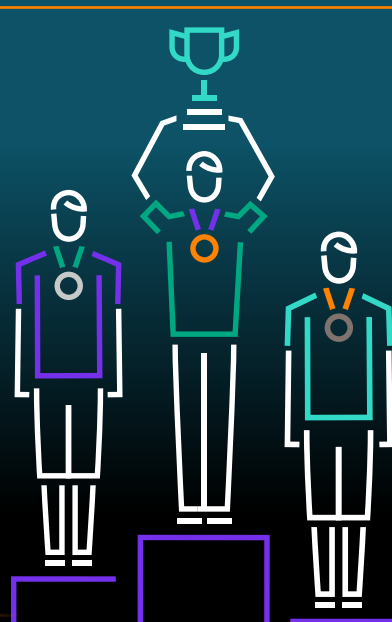
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HPE and AMD—Delivering EPYC Solutions Together—webpage

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

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