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EXPLORE HPE COMPUTE

Power your edge-to-cloud world with
solutions optimized for your workloads



Modernizing your data and infrastructure is the key to enhancing business value

Whether you're an IT service provider delivering cutting-edge solutions to your customers, a healthcare organization managing the private data of patients, or a team of elite scientists dedicated to space exploration, you are generating thousands of data points every minute of every day.

When organized and understood, data is the fuel for innovation that drives competitive advantage in a world that increasingly demands speed, agility, and security. Thriving in a digital-first world requires an understanding that those gigabytes and terabytes of data are key to value creation for your enterprise.

Data is the currency of today's business transformation, but in many organizations, this data — and the infrastructure on which it is stored and analyzed — isn't keeping up. Today's AI-driven enterprises need next-generation compute systems to tap into the true value of their data. To take advantage of the increasingly large datasets you're generating, it is more critical than ever to establish the right foundation to store and process your data from edge to cloud.

Where do you want to take your business?

From enabling real-time retail operations to enhancing patient care to advancing groundbreaking scientific discoveries, efficient, high performance computational power accelerates innovation, allowing you to more easily extract, refine, and utilize your data.

IT environments are becoming more distributed and more complex, with greater demands for reliability, performance, and security. The good news is that with the right infrastructure, IT environments can be more easily managed, freeing up critical IT resources to focus on strategic, revenue-generating activities rather than day-to-day systems and hardware management.

This is especially important as compute deployments become more evenly distributed to support edge use cases.

Additionally, servers in operation today may not suffice for new, demanding workloads, especially those on the horizon. As requirements vary across workloads, latency, scale, performance, and economics determine the best compute choice for each organization.

When you modernize with HPE Compute, you are leveraging a solution that is built for today's hybrid world while turning tomorrow's challenges into opportunities. Your infrastructure shouldn't just keep up — it should move your business forward.

Accelerate innovation from edge to cloud

The latest generation of HPE solutions empowers you to modernize with confidence. Whether you're expanding use of AI, optimizing virtualization, making measurable progress on sustainability, or realizing real-time business value, HPE Compute solutions provide your infrastructure with a foundation for what's now and what's next.

HPE ProLiant Compute servers

The latest HPE ProLiant Compute servers and software have been developed to provide the performance and efficiency you need to meet the requirements of today's most demanding workloads, from VDI to AI to HPC and beyond. Designed with efficiency as a primary goal, new HPE ProLiant Compute resources can do more with less, powering business needs while optimizing resources such as power and cooling. With over five decades of experience and innovation, HPE offers liquid cooling options across its entire portfolio and includes the industry's first 100% fanless liquid cooling systems architecture.¹ Innovations such as direct liquid cooling provide superior, efficient temperature control in the most demanding environments, while flexible-mount options for servers purpose-built for the edge make installation almost anywhere a reality.

¹hpe.com/us/en/newsroom/press-release/2024/10/hpe-announces-industrys-first-100-fanless-direct-liquid-cooling-systems-architecture.html

There has never been a better time to upgrade. Enterprises upgrading from HPE ProLiant Gen10 to Gen12 can achieve hardware consolidation up to a factor of 7:1, up to a 65% power savings, and 41% better performance per watt compared with Gen10.² Organizations that upgrade from Gen8 to Gen12 can achieve up to a 26:1 consolidation and an 84% power savings.³

Additionally, HPE ProLiant Compute Gen12 platforms are specifically optimized to unleash the potential of generative AI in your organization, thanks to the turnkey HPE Private Cloud AI solution, which was designed with the support of NVIDIA. This solution supports training, tuning, and inference without compromising power efficiency.

Upgrading to a new server doesn't mean rolling out more than you need. HPE ProLiant Compute servers are available in a range of sizes and capacities, letting you right-size your hardware for the workload you have at hand today — or plan to have a year from now.

With HPE ProLiant Compute, the end results are clear: lower costs, reduced risks, and more innovation across your organization.

HPE ProLiant DL145 Gen11

For diverse edge deployments, the HPE ProLiant DL145 Gen11 Server is durable, AI-ready with GPU support, and purpose-built for the edge. Optimized for diverse environments — from health clinics to manufacturing lines to retail stores — it can handle extreme temperatures (-5°C to 55°C) and dusty conditions and is quiet enough for noise-sensitive locations.

Its design offers flexible-mount options, making it perfect for installation in cabinets, offices, assembly lines, warehouses, and other locations.

This compact but powerful server delivers performance, security, and adaptability where traditional servers fall short.

HPE Compute Ops Management

HPE Compute Ops Management is a centralized, cloud-native solution that leverages AI to enhance server manageability, providing automated, intelligent insight into server issues that might previously have gone unnoticed — or noticed too late. With HPE Compute Ops Management, IT managers gain better insight into resource consumption such as compute utilization and energy use, letting them automate and streamline global operations from the data center to the edge.

Armed with historical and real-time data, HPE Compute Ops Management helps IT staff pinpoint problems and make better, more consistent decisions faster than ever. It provides sustainability insights, advanced power consumption data, on-demand carbon footprint reporting, and more.

With real-time alerts, AI-driven insights, and multi-vendor tool support, HPE Compute Ops Management empowers IT teams to act with speed and confidence, increasing operational efficiency and accelerating response times across the entire enterprise. The solution reduces server management time by up to 75%, saving organizations up to \$152,000 over three years on travel and software costs alone.⁴



² SPEC and the names SPECrate are registered trademarks of Standard Performance Evaluation Corp. (SPEC). The stated results SPECrate2017_int_base: (2), #20893 (4) are published as of Jan. 1, 2025 (see [SPEC.org](https://www.spec.org)) and compared against an estimated 48-core Gen12 system. All rights reserved. Power savings are based on the Thermal Design Power of the systems. The performance-per-watt advantages are based on internal power and performance measurements on similarly configured high-energy-efficient servers and compared against an estimated 86-core Gen12 system.

³ [SPEC CPU 2017](#) Benchmark: The stated consolidation ratio and power savings are based on testing using the SPECrate2017_int_base suite from the SPEC CPU 2017 benchmark.

⁴ ["New Technology: The Projected Total Economic Impact of HPE Compute Ops Management."](#) Forrester, June 2024. Forrester's new technology projected Total Economic Impact study was commissioned by HPE. Results are for a composite organization.



HPE Integrated Lights-Out

HPE Integrated Lights Out (iLO) is a unique, embedded ASIC technology and a core component of HPE ProLiant Compute. It enables simplified deployment, system health monitoring, and detailed power and thermal control. These features translate to faster time to deployment, higher server and application availability, and significantly quicker resolution for any issues.

HPE iLO delivers hardened security features as well as multilayered protection. With HPE ProLiant Compute Gen12 and HPE iLO 7, HPE takes protection further by offering the only embedded secure enclave for advanced encryption key storage in the industry that includes secure firmware signing to comply with NIST and CNSA 2.0 quantum resistance requirements. HPE ProLiant Compute servers also meet the requirements for FIPS 140-3 Level 3, in which HPE is pursuing formal certification.⁵ No one delivers this type of security but HPE.

HPE is the only vendor to validate post-integration solutions from server to rack and from hardware to firmware, providing complete, end-to-end security coverage across the server lifecycle — not just during runtime.

HPE Supercomputing

Accelerate innovation and discovery in the AI era with HPE SC. With flexible deployment options, you can access supercomputing technologies at your scale. HPE's supercomputing portfolio includes the fastest supercomputer in the world, El Capitan,⁶ so you can feel confident that your supercomputing needs are in trusted, experienced hands.

Secure your competitive advantage in the exascale era with industry-leading capabilities and HPE's commitment to sustainability.

HPE GreenLake Flex Solutions for core compute

With HPE GreenLake Flex Solutions for core compute, you can save resources and run your workloads more efficiently, whether they are general purpose, mission critical, or storage optimized.

HPE GreenLake Flex Solutions eliminate or simplify management tasks so your teams can solve issues faster and optimize costs, giving you more time innovating instead of just managing. HPE GreenLake Flex Solutions are also designed to scale quickly, with HPE helping you manage capacity and add resources before they are needed.

The HPE difference

HPE Compute solutions are the key to modernizing your data and infrastructure and building a foundation for the workloads of today and tomorrow. HPE Compute Servers are purpose-built to reduce costs, minimize downtime, and simplify virtualization. In fact, HPE stands apart as the only vendor that combines silicon-level security, the industry's first server with quantum computing-resistant readiness, and a trusted supply chain,⁷ to enhance the safety of your data at all times. Services like [HPE Lifecycle Services](#), [HPE Complete Care Service](#), and [HPE Asset Upcycling Services](#) can also help to accelerate your modernization process.

Whether you're looking to take advantage of new business opportunities with AI or improve the cost structure of your technology portfolio, HPE Compute is explicitly designed to help you meet your goals.

⁵ FIPS 140-3 Level 3 certification is a standard adopted by the National Institute of Standards and Technology (NIST) and the Commercial National Security Algorithm (CNSA) Suite 2.0 to verify cryptographic modules.

⁶ top500.org/news/el-capitan-achieves-top-spot-frontier-and-aurora-follow-behind/

⁷ As of January 27, 2025.

Full lifecycle support with HPE Compute

Enhance protection at every stage:

HPE Lifecycle Services:

Accelerate results with help from HPE experts and our global partner network. Whether you're deploying at the edge, in the cloud, or across hybrid environments, we offer both pre-defined and custom services to fit your project — no matter the size or complexity. Our experts help reduce IT timelines and speed time to value. HPE Services are a smart fit if you need to:

- Deploy new IT infrastructure
- Review and improve IT performance and risk posture
- Optimize for evolving workloads
- Manage moves — data center consolidation, office relocation, or hybrid transitions

HPE Complete Care Services:

Experience personalized, edge-to-cloud IT support to optimize your environment and meet your business goals. A dedicated HPE team works with you to drive outcomes, supported by modular solution blocks tailored to your needs.

HPE Asset Upcycling Services:

Sustainability has shifted from a “nice-to-have” to a business imperative. Decommission and retire your legacy tech with upcycling in mind and recover value from any HPE or third-party workplace or data center technologies, in a secure, globally consistent, and environmentally responsible way.

Take the next step to modernizing your compute infrastructure

Contact your local sales representative or authorized HPE Partner to learn more about how HPE Compute can transform your server operations.

Learn more at

[HPE.com/compute](https://hpe.com/compute)

Visit [HPE.com](https://hpe.com)

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