HPE GreenLake

Unbounded innovation and time to results



Achieve monumental performance in research and innovation in health and life sciences, manufacturing, energy, earth sciences, finance, and more

Unbounded innovation and faster time-to-results with HPE Supercomputing

The importance of innovation and faster results

Every industry shares a common key to success: the ability to innovate confidently and quickly. When that ability is unbounded, it means you can ask any question and get an answer. Examine data from any angle and glean insights. Test out any idea and be assured of a reliable result. And when you can get those results rapidly it means you can apply your learnings and accelerate right into the next ones.

The demands for insights today are superseding traditional compute capabilities. Organizations that need to solve complex challenges require supercomputing power to undertake business initiatives and evolve for the increasing computational needs of tomorrow. But not everyone needs a large, expensive supercomputing infrastructure like those used by labs, research universities, and governments.

Forward-thinking companies are leveraging accessible supercomputing technology to unlock new business value and adaptive insights. It can provide the capability to run new, parallelized workloads, process vast amounts of data faster, take advantage of artificial intelligence (AI), and remove the limits on innovation.

Unbound innovation and get faster results with HPE Supercomputing

With HPE Supercomputing, you can access our comprehensive portfolio of supercomputing technologies, tools, and support services at your scale. These industry-leading supercomputing products for both the enterprise and public sector enable monumental performance in AI, research, and innovation across every industry.

Advances in exascale technology are enabling landmark compute capabilities so organizations — both large and small — can optimize highly complex workloads and extract deeper, broader insights. We're making it possible by merging HPE Supercomputing technologies, cutting-edge HPE product lines, tools, and services, and seamless delivery with the reliability and industry leadership that make HPE a trusted partner.

Get started with HPE Cray XD supercomputers

For those needing a density-optimized, scalable supercomputing system to meet changing demands of workloads in HPC and enterprise data centers, the HPE Cray XD2000 System offers reimagined enterprise compute, bringing breakthrough capacity and agility to achieve real-world results.

The HPE Cray XD2000 is purpose-built for supercomputing and AI workloads, powered by latest generation processors from AMD and Intel® to provide unprecedented performance, high bandwidth memory, and built-in acceleration for the fastest-growing workloads. Our density-optimized systems offer a complete, scalable solution with power and cooling options that deliver superior performance at a lower TCO.

Built with a winning combination of exascale era networking, integrated storage, comprehensive software, and support services, enterprises can access the same exascale technologies found in the world's fastest supercomputers at an entry point that works for them — driving better outcomes, setting the stage for future growth, and transforming the business through more accessible supercomputing.

Purpose-built supercomputing solution

A complete supercomputing solution from chassis to rack scale with exascale-ready technologies such as HPE Slingshot, HPE Cray Programming Environment (CPE), HPC optimization tools, and HPE Message Passing Interface (MPI).

Increase performance and reduce cost

Accelerate your time to value by improving the performance of the HPE Cray XD2000 System with the latest top-bin CPU from 4th Generation Intel® Xeon® Scalable processors.

Flexible scale-out building blocks

The HPE Cray XD2000 provides right-sized building blocks, scaling from one to thousands of servers as business needs evolve. It can be deployed with a single chassis and a server and more compute can be added and scaled as customer needs grow. Managing supercomputing environments can be a major roadblock to innovation.

HPE Cray XD manageability and security

The HPE Cray XD2000 incorporates industry-standard BIOS and BMC components, including the support of industry-standard DMTF Redfish to better aid in heterogeneous management control solutions. Each system includes hardware root of trust with recovery solution incorporating a validated firmware signature chain of trust, conforming to NIST standards, helping ensure firmware is not compromised.

Learn more at

HPE.com/us/en/compute/hpc/supercomputing/Cray-exascale-supercomputer.html

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