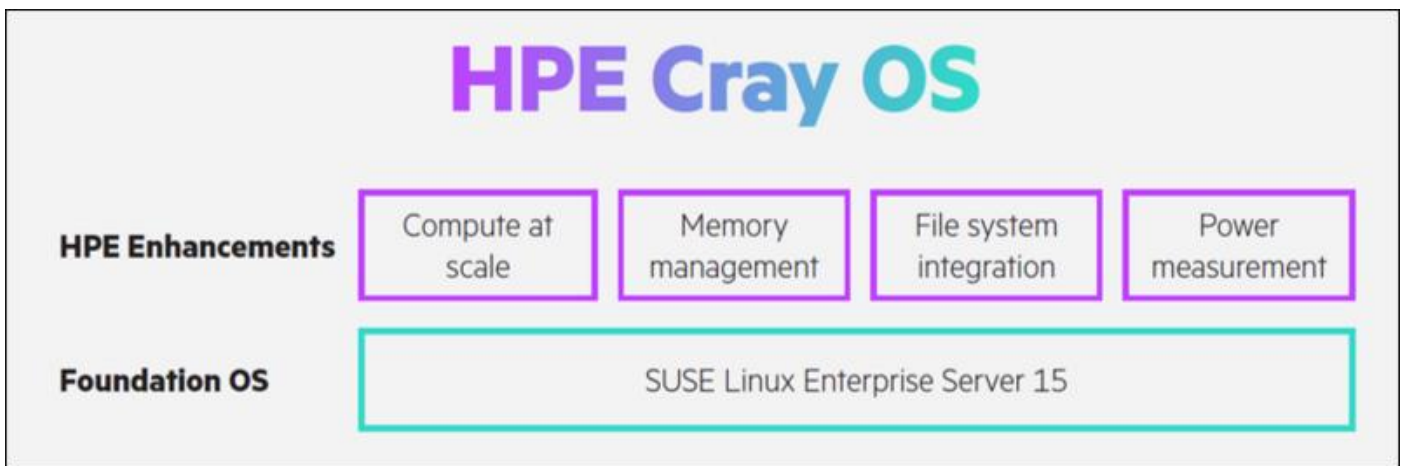


HPE Cray Operating System

Cray Operating Systems



What's new

- Support for HPE Cray XD systems with HPE Slingshot interconnect

Overview

Do you need an operating system specifically designed to run demanding HPC applications?

HPE Cray Operating System is a suite of high-performance software designed to run large, complex applications at scale. Based on standard SUSE Enterprise Linux, the software provides many features designed to improve application efficiency, reliability, management, and extend data access.

Features

Improving Workload Performance

HPE Cray OS features CPU assignment which constrains OS operations to specific Linux hardware threads eliminating noise from the remaining CPUs so that applications have dedicated CPUs for a better workload performance.

Additional Huge Page sizes we added deliver less latency by avoiding address translation cache misses in limited-sized network address translation hardware - important for applications with large memory footprints and sparse reference patterns.

XPMEM – enables enhanced memory sharing between processes to increase on-node MPI performance.

The software controls turbo boost to provide predictable, consistent performance of the system.

Going Beyond Standard Linux Capabilities

HPE Cray OS offers fine-grained monitoring of power usage of the running applications so users can decide whether they want to contain or exploit available power resources and make sure their system runs efficiently.

Advanced Kernel Debugging extends the crash capabilities of the community Linux kernel debugger supporting diskless nodes and huge pages for large scale systems. Node Memory Dump enables administrators to select which nodes to dump in the event of a system crash.

The software includes native clients that enable access to Lustre file systems. Data Virtualization Service (DVS) provides compute nodes with scalable access to file systems mounted on service nodes and also enables lightweight access to NFS, IBM Spectrum and Lustre file systems.

Leverage Cray Supercomputing Lineage

HPE Cray Operating System was developed and enhanced over several decades to address specific needs of HPC customers.

This customized (not custom!) OS does not alter the ability to run standard Linux applications, but rather enhance it for performance, scale, and reliability.

HPE Cray OS is fully supported by HPE Pointnext Services.



For additional technical information, available models and options, please reference the [QuickSpecs](#)

HPE Pointnext Services

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

[HPE Pointnext Complete Care](#) is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- GreenLake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

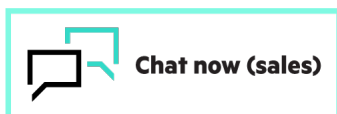
HPE GreenLake

[HPE GreenLake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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