HPE Cray Supercomputing User Services Software

HPE Cray Supercomputing User Services Software 1 Node 1-year 24x7 Support E-RTU (S3B58AAE)

What's new

- Power measurement encourages awareness of power usage and can yield informative insights for decision making on striking the balance between power and performance.
- Low noise mode and turbo boost limiting can help better utilize compute resources by improving application efficiency.
- Data Virtualization Service (DVS) streamlines access to data wherever it resides by enabling global access

Overview

Do you need to execute high performance computing (HPC) and artificial intelligence (AI) workloads?

The Hewlett Packard Enterprise HPC software stack is designed for its hardware systems and compatible with various third-party and open-source software solutions, enabling customers to achieve impressive performance and system management at scale.

HPE Cray Supercomputing User Services Software bundles together advanced features—including for power measurement and file system integration—to enhance user experience and system performance. By offering selective installation of features, HPE Cray SC User Services

to parallel file systems, replacing the need for physical storage network interface cards.

- Documentation and foundational functionalities simplify the integration of third-party and open-source software (e.g., SLURM and Altair PBS Pro workload management tools) to meet business need.
- Features are offered as modular components for selective installation based on your organization's specific needs.

Software helps users customize their managed node environments based on their unique needs. HPE Cray SC User Services Software also supports integration of workload manager software and container orchestrators to continually facilitate increasingly complex integrated HPC and AI workflows.

Features

Awareness of power usage to drive sustainability

HPE Cray SC User Services Software helps gauge the power utilization and distribution of your system by enabling measurement by processor (e.g. CPU or GPU) and by job.

Power data is collected from out-of-band (OOB) sensors accessible by BMC on the compute nodes through workload managers and system management tools.

Customers can leverage the collected data to form insights that influence their decisions to achieve better balance between power and performance.

Boosted application efficiency

HPE Cray SC User Services Software focuses compute resources on running HPC/AI workloads rather than executing background activities with low noise mode, which confines OS operations to designated Linux® CPUs or hardware threads, freeing up remaining cores to uninterruptedly run user applications.

By providing the ability to set performance thresholds on selected nodes, turbo boost limiting can deliver predictable, consistent performance and reduce power consumption for workloads, consequently protecting uptime.

Enhanced data access and management

HPE Cray SC User Services Software enables systems to seamlessly run HPC/AI tasks involving data that resides on different nodes with Data Virtualization Service (DVS).

DVS is an I/O forwarding technology for storage subsystems that can flexibly scale with your needs. It utilizes the bandwidth and capacity of the cluster's high-speed network to deliver enhanced performance and global access to parallel file systems residing on nodes with DVS servers.

Lustre and DVS facilitate system performance at scale as a more efficient alternative to having physical storage network interface cards on every node in the system.

In the case that a node fails, DVS prevents you from losing your job progress by providing continued access to parallel file systems. More specifically, DVS provides load balancing to evenly distribute file system projections, which in turn, enables active-active failover and failback capabilities.

Flexibility in buying and utilizing HPC capabilities

HPE Cray SC User Services Software includes documentation and foundational functionalities to help you better leverage HPC systems and create environments conducive for both HPC and AI workloads (e.g. set up user mode container support with Podman or Singularity).

Receive modules, libraries, and software from Hewlett Packard Enterprise to customize your managed node environment, enhance your system performance, and get more out of your HPC systems.

Selectively install features for power measurement, workload management (WLM) integration and orchestration, compute at scale, and file system integration to meet your organization's unique needs.

Establish the foundation for HPC managed nodes to run diverse workflows, including compiling applications, scheduling batch jobs, and more.

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

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

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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