

HP HPC LINUX VALUE PACK 3.1 FEATURING PLATFORM SOFTWARE



A powerful workload environment for cluster users

Data sheet

If your organization uses Linux clusters to boost application performance, you probably use numerous system and workload management tools and libraries—with one tool designed for each task. With so many tools to learn and operate, deploying and maintaining an environment for multiple users, workloads, and applications becomes a complex and time-consuming endeavor.

HP has a better solution—one that provides all the features your workers need to launch, manage, and merge their workloads and applications on a cluster, under one easy-to-use umbrella. It's called the HP HPC Linux Value Pack, and it works in sync with your Linux operating system and HP Insight Cluster Management Utility (CMU). While HP Insight CMU offers cluster administrative management capabilities, HPC Linux Value Pack provides a complementary job scheduling and monitoring environment, best-in-class message-passing interface (MPI), and easy, integrated application support. The result: a single, integrated cluster with complete management capabilities.

HPC Linux Value Pack is a fully HP-supported suite of key resource management and high-performance development software packages for Linux operating environments, including Red Hat, Novell SUSE Linux Enterprise Server (SLES), and CentOS. This specially priced software bundle aids job scheduling, as well as merges high performance applications on HP Cluster Platform systems.

What's new?

HP HPC Linux Value Pack 3.1 includes premier management tools that enhance and strengthen your workload environment, including:

- Powerful workload management capabilities
 - Platform LSF: popular resource management and scheduling
 - Platform Application Center: application-centric interface for job submission, reporting, and management
 - Automated OS provisioning based on workload
 - HP-MPI: universal, production-quality implementation of the MPI standard; automatically adapts to failures in the infrastructure
- Tight integration with Insight CMU: monitor and manage Platform LSF jobs on a per node or per cluster basis based on node status

Unique functionality drives greater value

- Robust and feature-rich workload management
 - Built for demanding, distributed, and mission-critical high performance computing (HPC) environments
 - Comprehensive set of intelligent, policy-driven scheduling features
 - Unified web portal for anywhere, anytime access
- Integrated application support
 - Easy-to-use job submission portal for commercial applications
 - Customizable, self-documenting application templates
 - High-performing MPI libraries
 - Fully integrated with HP Insight CMU
- Fully certified and supported
 - Certified and factory installable on HP Cluster Platforms
 - Delivered at your site, ready to run
- Supported by HP, the worldwide market leader in HPC, which means you have one number to call for both software and hardware support

Standing out in the crowd

While other job scheduling solutions contain a limited set of features, HP HPC Linux Value Pack provides all the capabilities you need to schedule high-performance applications in today's clustered computing environments:

- Single web portal
- Integrated application support
- Convertible web portal interface
- MPI performance optimization

Unified web portal

While command-line savvy users can continue using the remote terminal capability, HP HPC Linux Value Pack also provides a unified web portal that make it easy to submit, monitor, and manage jobs. The web portal is customizable and provides job data management and interactive job support. The portal supplies an interactive environment for pre-integrated commercial application support.

One of the key features of the unified web portal interface is a dashboard that provides comprehensive monitoring and reporting. The dashboard enables you to make timely decisions and proactively manage computing resources against business demand. When it's time for capacity planning, you can use the web portal to run detailed reports and analyses, which quantify user needs and remove the guesswork from capacity expansion.

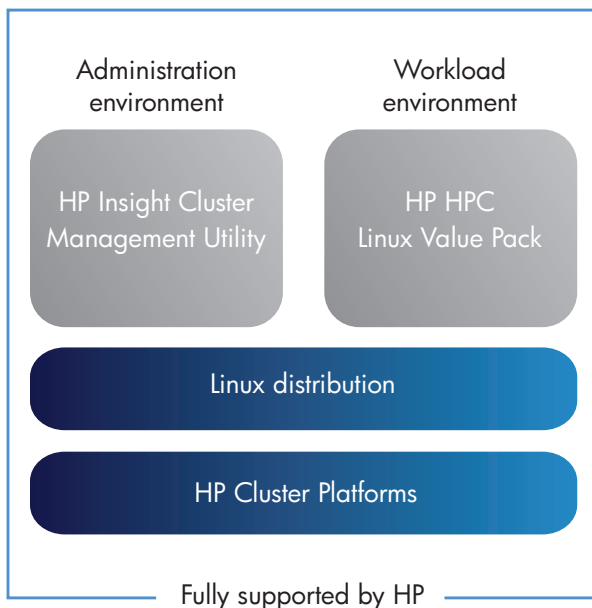
Powerful workload management

HP HPC Linux Value Pack includes a robust workload scheduler: Platform LSF—a powerful, policy-driven workload management solution for engineering and scientific distributed computing environments. By scheduling workloads intelligently according to policy, HPC Linux Value Pack improves end-user productivity with minimal system administrative effort. In addition, it allows HPC teams to easily access and share all computing resources, while reducing time between simulation iterations.

Job submission templates

The HP HPC Linux Value Pack comes complete with job submission templates for ANSYS Mechanical, ANSYS Fluent, ANSYS CFX, LS-DYNA, MSC Nastran, Schlumberger ECLIPSE, Simulia Abaqus, and Blast. By configuring these templates based on the application settings in your environment, you can start using your cluster without writing any scripts. These self-documenting, user-friendly interfaces help minimize job submission errors.

Complete Linux Cluster




Cluster platforms of choice

The HP HPC Linux Value Pack is an installable option with HP Cluster Platforms. Available in numerous configurations, HP Cluster Platforms provide you with a choice of processors, operating systems, and interconnects. The HP Cluster Platforms 3000 and 4000 are designed with HP 1U and 2U rack-mount servers or HP BladeSystems as the basic compute building blocks. Easy to configure and ready to run, these platforms provide excellent return on your investment. Able to handle extreme scale-out requirements, the HP Cluster Platform 3000SL is built on an efficient, multi-node chassis that lowers system costs and reduces power consumption. All servers contain multi-core processors to deliver the highest performance possible for your HPC applications. Interconnect choices include HP Gigabit Ethernet or HP InfiniBand (FDR and QDR).

Your next steps

Contact your HP sales representative today. Discover how the advanced features of HP HPC Linux Value Pack, together with HP Insight CMU, can accelerate your organization into overdrive. More information on HP HPC Linux Value Pack is available at www.hp.com/go/lvp. You can also visit www.hp.com/go/clusters for description of HP's complete cluster portfolio.

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