



Platform HPC

Achieve faster time to cluster readiness, improved user productivity and shorter time to solution.

Key Benefits

- More science, less computer science
- Faster time to system readiness
- Reduced user training requirements
- Easily integrate applications
- Improve workload throughput

Key Features

- Complete, easy to use cluster management
- Next generation web-based interface
- Integrated application support
- Architecture-aware workload management
- Robust workload, system monitoring and reporting
- Dynamic operating system multi-boot
- GPU scheduling, management and monitoring
- Robust commercial MPI library (Platform MPI)
- 3rd party management software integration

Focus on science, not computer science

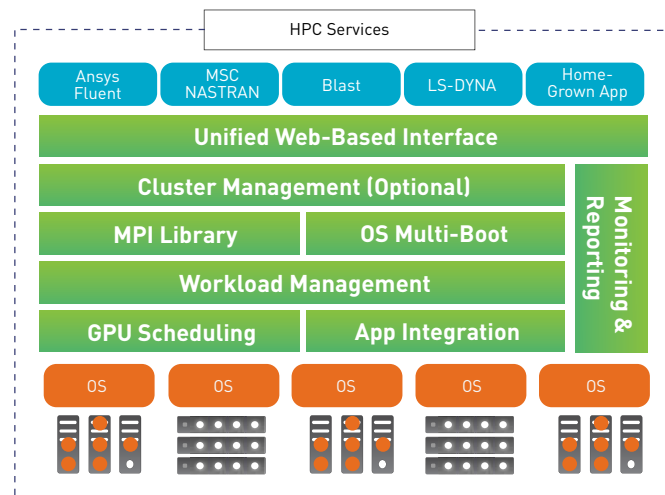
Platform HPC is the industry's easiest and most complete HPC management product. Its robust cluster and workload management capabilities are accessible using the latest design in web-based interfaces – making it powerful, yet easy to use. Platform HPC simplifies the application integration process so that you can focus on your work, instead of managing your cluster. For applications requiring MPI, the robust, commercial MPI library accelerates and scales HPC applications for shorter time to solution.

Other HPC cluster solutions just combine multiple tools and interfaces, which are not integrated, certified, or tested together. Platform HPC is a single product with a unified set of management capabilities that make it easy for you to harness the power and scalability of your HPC cluster, resulting in shorter time to system readiness and user productivity as well as optimal utilization and throughput. Backed by the industry's best customer support, Platform HPC incorporates nearly two decades of product and technology leadership.

Most complete HPC cluster management product

Platform HPC makes it easy to deploy, manage and use your HPC cluster while meeting the most demanding requirements for application performance and predictable workload management. It is a complete product that provides a robust set of cluster management capabilities; from cluster provisioning and management to workload management and monitoring.

All the functions required to operate and use your cluster are installed at once, and are tightly integrated. The next generation web portal provides a single point of access into your cluster, making it easy to manage jobs and optimize application performance. This is more than just a stack of software; Platform HPC is a fully integrated and certified product designed to ensure faster time to system readiness, ease of use and improved application throughput.



Platform HPC is a complete management solution for deploying, managing, monitoring and using HPC clusters.

Simplified application integration

Platform HPC enables you to fully harness the power of your cluster to optimize application performance. High performing, HPC-optimized MPI libraries come integrated with the product, making it easy to get your parallel applications up and running. Scripting guidelines and job submission templates for commonly used commercial applications enable easy application integration and ensure that users are immediately productive - simplifying job submission, reducing job setup time and minimizing operation errors. Once your applications are up and running, Platform HPC improves application performance by intelligently scheduling resources based on workload characteristics.

Fully certified and supported by Platform Computing

Unlike other cluster toolkits which are often collections of open-source software, Platform HPC is a single product with a single installer and a unified web-based management interface. It is based on the industry's most mature and robust workload manager, Platform LSF, making it the most reliable solution on the market.

Platform HPC unlocks cluster management to provide you the easiest and most robust HPC management capabilities while reducing your overall cluster cost with full support and certification from Platform Computing, the world leader in HPC management solutions.

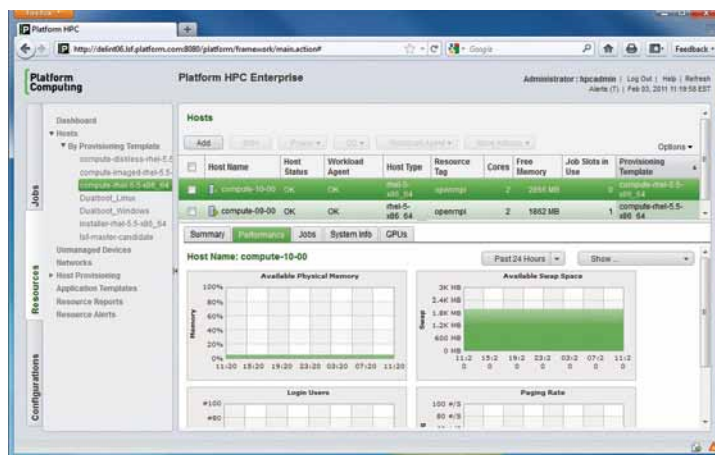
The easiest and most complete HPC management software

Easily manage your cluster and submit, monitor and manage jobs

Platform HPC includes a single, unified web-based interface with advanced capabilities that make it easy to manage all aspects of your cluster. This includes cluster provisioning, monitoring, application integration, and workload management and reporting. The intuitive interface provides a robust set of management dashboards and reports that make it easy to monitor resource performance and alerts to ensure that your HPC infrastructure is optimally utilized.

A better way to deploy and manage HPC clusters

Using Platform HPC you can quickly provision and manage HPC clusters with unprecedented ease. It ensures maximum uptime and can transparently synchronize files to cluster nodes without any downtime or re-installation. In order to ensure compatibility with diverse compute environments, you can use either Platform HPC or third-party software to provision and manage your cluster.

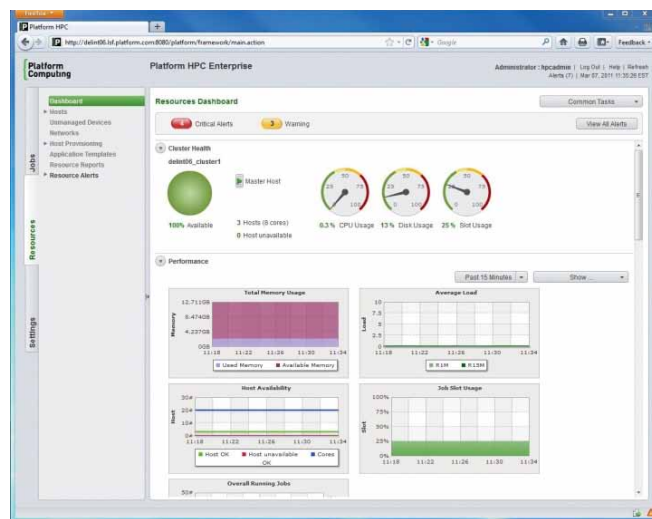


Easy to use rack view dashboard with drill in/drill out capabilities for simplified cluster administration and monitoring.

Increase user productivity and resource utilization

Platform HPC includes a robust workload scheduling engine, which is based on Platform LSF - the industry's most powerful, comprehensive, policy driven workload management solution for engineering and scientific distributed computing environments. By scheduling

workloads intelligently according to policy, Platform HPC improves end user productivity with minimal system administrative effort. In addition, it allows HPC user teams to easily access and share all computing resources, while reducing time between simulation iterations.



Comprehensive reports that correlate workload information with system load, enabling administrators to proactively manage compute resources against business demand.

Simplified troubleshooting and capacity planning

Platform HPC includes an operational dashboard that provides comprehensive administrative reports. It enables you to make timely decisions and proactively manage compute resources against business demand. By correlating workload information with system load, you can easily identify issues with your cluster and troubleshoot issues with your jobs. When it's time for capacity planning, you can use the unified web portal to run detailed reports and analyses which quantify user needs and remove the guess work from capacity expansion.

Automated operating system provisioning based on workload

Platform HPC supports image-based installs, allowing cluster nodes to be rapidly "cloned" while also providing support for diskless nodes. Because of this, Platform HPC can deploy multiple operating system versions concurrently on the same resource and, based on job resource requirements, dynamically boot the Linux or Windows operating system required to run the job. You can also use the product's interface to manually switch

nodes to the required OS to meet application demands, providing you with the flexibility to support special requests and accommodate unanticipated changes.

Take advantage of high performing GPUs

Platform HPC provides the capability to schedule GPU enabled applications specifically to resources with GPUs. This is particularly advantageous in heterogeneous hardware and application environments as it means that administrators can configure Platform HPC so that only those jobs that can benefit from running on GPUs are allocated to those resources. This frees up CPU-based resources to run other jobs. Using the unified management interface, administrators can also monitor the GPU utilization, temperature and status as well as detect ECC error accumulation.

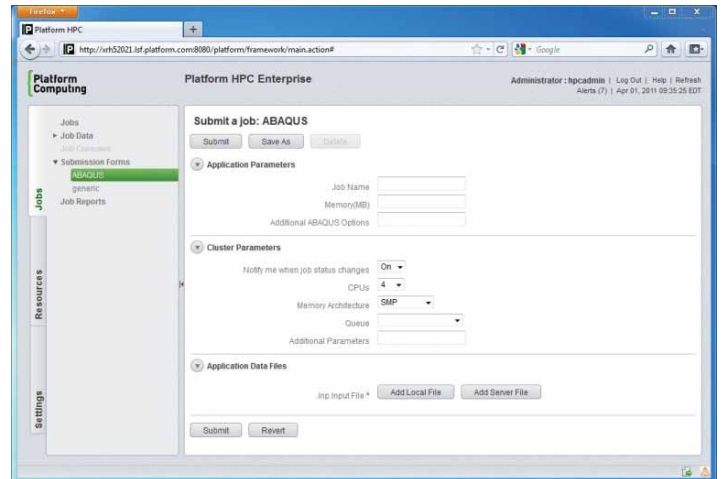
Accelerate and scale HPC applications

In order to make it easier to get parallel applications up and running, Platform HPC includes the industry's most robust and highest performing MPI implementation, Platform MPI. Platform MPI provides consistent performance at application run-time and for application scaling, resulting in top performance results across a range of third-party benchmarks. Platform HPC also includes various other industry standard MPI implementations. This includes MPICH1, MPICH2 and MVAPICH1, which are optimized for cluster hosts connected via InfiniBand, iWARP or other RDMA based interconnects.

Easy application integration, minimal job submission errors

Platform HPC comes complete with job submission templates for common commercial ISV applications as well as configurable templates for home grown

applications. By configuring these templates based on the application settings in your environment, you can start using your cluster without writing scripts. These self documenting, user friendly interfaces, help minimize job submission errors. Platform HPC also includes standard benchmark tests to ensure that your cluster will deliver the best performance without manual tuning.



Platform HPC includes templates for commonly used commercial applications. Start using your cluster without running any scripts.

Customize based on your organization's unique needs

Platform HPC provides the capability to customize the metrics you monitor, including integration with 3rd party management software. This enables you to monitor and alert abnormal status for non-server devices in the HPC environment. Custom actions and buttons can be added to the web-based interface, which can trigger a link to a URL or a command launched on the head node. These customizations enable you to create a user and administrator environment that is tailored specifically to your organization's unique requirements.

Platform Computing is the leader in cluster, grid and cloud management software - serving more than 2,000 of the world's most demanding organizations for over 18 years. Our workload and resource management solutions deliver IT responsiveness and lower costs for enterprise and HPC applications. Platform has strategic relationships with Cray, Dell™, HP, IBM®, Intel®, Microsoft®, Red Hat®, and SAS®. Visit www.platform.com.

World Headquarters
Platform Computing Corporation
3760 14th Avenue
Markham, Ontario
Canada L3R 3T7
Tel: +1 905 948 8448
Fax: +1 905 948 9975
Toll-free Tel: 1 877 528 3676
info@platform.com

Sales - Headquarters
Toll-free Tel: 1 877 710 4477
Tel: +1 905 948 8448

North America
New York: +1 212 888 6270
San Jose: +1 408 392 4900

Europe
Bramley: +44 (0) 1256 883756
London: +44 (0) 20 3206 1470
Paris: +33 (0) 1 41 10 09 20
Düsseldorf: +49 2102 61039 0
info-europe@platform.com

Asia-Pacific
Beijing: +86 10 82276000
Xi'an: +86 029 87607400
asia@platform.com
Tokyo: +81(0)3 6302 2901
info-japan@platform.com
Singapore: +65 6307 6590
wliaw@platform.com

