



**CRAY CX**

## **Cray Cluster Manager**

Clusters Made Simple with the Cray CX™ family of supercomputers  
and Cray Cluster Manager powered by Platform Computing

# Cray Cluster Manager

Being first and fastest to solve complex problems, deliver better products and provide high service levels drives competitiveness that is critical to organizational innovation and profitability. No two companies know this better than the leaders in supercomputing and high performance computing (HPC) management technologies: Cray Inc. and Platform Computing. Built using open source components, the Cray Cluster Manager powered by Platform Computing includes all the tools required to quickly deploy, run and manage a Linux®-based or dual-boot Cray CX supercomputer while allowing organizations to utilize the systems full potential with unprecedented ease. Running a Cray CX system powered by Cray Cluster Manager is the quickest and easiest way to align technology to meet core business objectives to deliver real, tangible value.

Cray Cluster Manager is a “re-think” of how open clusters are deployed and managed. It is a complete, certified solution that includes all the tools required to quickly deploy, run and manage HPC clusters with ease. Cray Cluster Manager is built for optimal performance and uptime, while offering management, support and update benefits that are simply not possible with other cluster management solutions. Benefits include:

- Fast, flexible cluster deployment
- Simple cluster management through an intuitive web management interface
- Optimal uptime and productivity – updates applied with no re-booting or re-installation
- Quickly and easily build high performance applications through a fully integrated commercial MPI
- Accelerated cluster performance with the integrated Platform LSF workload scheduler
- Build multi-boot clusters so that multi-OS needs are efficiently fulfilled
- Easily scale as your business needs grow
- Enterprise class support from Cray and Platform

## Easy to use web interface

Cray users will appreciate the built-in alerting, reporting and management features and the ease with which software configurations can be managed and deployed without ever leaving the Cray Cluster Manager browser-based interface. Cray users can take advantage of the web portal to submit jobs through Platform LSF allowing them to submit, monitor and manage their own cluster workloads without ever touching the command line.

## Risk-free software installations

Performing software upgrades becomes simple and risk-free. Users or administrators can snapshot their known good repository and perform upgrades against a repository copy. If something goes wrong after deploying the upgraded software, node group definitions can simply be linked to the previous repository version, allowing the Cray CX system to be quickly restored to the known good state.

## Flexible provisioning

In addition to performing simple package-based installations, Cray Cluster Manager supports image-based installs allowing cluster nodes to be rapidly “cloned” and even provides support for diskless nodes. Multiple operating systems and versions can be deployed concurrently to the same cluster, providing Cray users and administrators with unprecedented flexibility.

## Multi-boot OS Support

Through Platform LSF and Adaptive Cluster, the OS personality of Cray CX nodes may be automatically changed depending on the workloads that are submitted to the cluster. The Adaptive Cluster solution supports multi-boot Linux operating systems as well as mixed Windows and Linux nodes. The flexibility of Adaptive Cluster makes the Cray CX Supercomputer even more efficient.

## Advanced HPC tools

Cray Cluster Manager provides one of the most advanced suites of HPC infrastructure components including libraries pre-optimized for the hardware and networking components. Standard benchmark tests are included to ensure that your cluster will deliver the best performance possible out-of-the-box. Cray Cluster Manager includes a range of industry standard pre-tuned MPI implementations, making it easy to get your parallel applications up and running quickly.

## Compatibility and flexibility

For ease of installation and management, software is packaged as easy-to-deploy, pre-built “kits”. Kits are easy to build and an ever-growing library of contributed kits from Platform Computing, our partners and others are available at <http://hpccommunity.org>. These kits bring commercial and open support for high-speed interconnects, OFED, Cacti®, Ganglia, Nagios, Java™RE, Intel® Cluster Ready and many more.

So, if your organization is considering an HPC solution, Linux cluster or even a desktide supercomputer and needs a simple, yet powerful solution that can be brought up and deliver results quickly, Cray has the answer - a Cray CX supercomputer system powered by Cray Cluster Manager.



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