

# CX1

## Platform™

High performance computing without the complexity of traditional clusters





# CRAY

## Clusters Made Simple with the Cray CX1™ and Platform 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, Platform Cluster Manager includes all the tools required to quickly deploy, run and manage a Linux®-based Cray CX1 supercomputer while allowing organizations to utilize its full potential with unprecedented ease. Running a Cray CX1 system powered by Platform Cluster Manager is the quickest and easiest way to align technology to meet core business objectives to deliver real, tangible value.

**Platform 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. Platform 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:

- Quick and easy 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 application performance with integrated workload management
- Easily scales as your business needs grow
- Fully supported by Cray

### 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 Platform Management Console (PMC) graphical interface. Cray users can take advantage of the web portal and the open workload manager, Platform Lava (Platform LSF compatible), that allows 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 CX1 system to be quickly restored to its original state.

### Flexible provisioning

In addition to performing simple package-based installations, Platform 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.

### Advanced HPC tools

Platform Cluster Manager provides one of the most advanced suites of HPC infrastructure components including libraries pre-optimized for vendor hardware and network components. Standard benchmark tests are included to ensure that your cluster will deliver the best performance possible out-of-the-box. Platform 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, commercial workload manager (Platform LSF), Cacti®, Ganglia, Nagios, Java™RE, Intel® Cluster Ready and many more.

So, if your organization is considering a Linux cluster or desktide supercomputer and needs a simple, yet powerful solution that can be brought up and deliver results quickly, Cray has the answer - the Cray CX1 supercomputer powered by Platform Cluster Manager.

### Further Information

<http://www.platform.com/Products/platform-cluster-manager>

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