

# Platform Application Center

Easy to use web-based job submission  
and management



## Highlights:

- **Easy to use application-centric interfaces**
- **Manage workloads and data via the web**
- **Role-based self-serve access**
- **Maintain libraries of self-documenting interfaces**
- **Drag-and-drop application interface builder**
- **Interactive jobs & VNC integration for visualization**
- **Easy to customize**

## Benefits:

- Reduce training and support requirements
- Improve user productivity
- Reduce error-rates and improve collaboration
- Reduce cluster administrator effort

## Ideal for customers who:

- Need easy access to HPC applications
- Wish to empower users and make them self-sufficient
- Want to provide self-serve access to jobs and data
- Need a cost-effective, easily deployed portal solution
- Need to serve student populations
- Need to control user access security

The Platform Application Center makes clusters easy to use with self-documenting interfaces that enhance productivity while reducing the burden on busy administrators.

## Making HPC applications simple

In today's sophisticated design and simulation environments, tool users have higher expectations. Rather than dealing with cryptic command line interfaces and the need to write their own scripts, they want easy to use web interfaces, direct access to jobs and job-related data, and the ability to monitor and manage jobs 24 x 7 from any device with a browser. They also want to be notified proactively when jobs change state, and have real-time visibility to job progress or potential error conditions so that they can address issues proactively and work on their own terms.

Platform Computing delivers with the Platform Application Center – a flexible interface to HPC clusters that is both easy to use and manage. Available as an add-on to Platform LSF 7, the Platform Application Center empowers cluster users with intuitive, self-documenting interfaces that improve both user satisfaction and productivity.

By deploying application-centric interfaces, customers enjoy reduced training requirements, fewer errors, a reduced support burden and an environment that is easier to extend to external partners through the firewall. Because users can be required to access applications in standard ways, it becomes easier to enforce site policies and address security concerns. With the Platform Application Center, users can tailor the way they interact with applications using templates that reflect user-specific job submission preferences. Cluster users can monitor the state of their jobs and job related data in real-time, and can perform basic operations like stopping, suspending, resuming or re-queueing jobs through their browser.

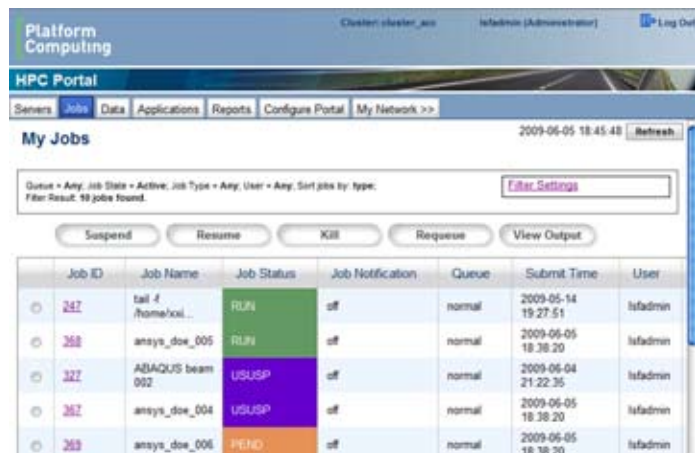
## Easy to deploy, easy to manage

Unlike some web-portals that require extensive customization including the need to hand edit XML files, configuration of the Platform Application Center is performed entirely through the web. Libraries of application interfaces can be maintained on-line, and administrators can design and deploy their own site specific interfaces using a powerful drag-and-drop interface builder. When completed, administrators can selectively publish application interfaces to make them accessible to cluster users.

In addition to standard form-based controls such as text fields, select fields, radio boxes and checkboxes, form designers have at their disposal an array of pre-built form elements purposely-built for Platform LSF clusters. Form elements can be extended and customized providing nearly unlimited configurability.

Administrators can embed text or HTML in interface forms, and provide field-level help, so that occurrences of errors in a job submission that translate into reduced cluster utilization are minimized as much as possible.

Form variables defined in the interface builder are transparently made accessible to server-side scripts that administrators can edit using an integrated web-based text editor. Because these job submission scripts are logically associated with each form, administrators can tailor these scripts based on their own application requirements without ever leaving the browser.



Job ID	Job Name	Job Status	Job Notification	Queue	Submit Time	User
242	tail -f /home/foi...	RUN	off	normal	2009-05-14 19:27:51	lsfadmin
258	ansys_doe_005	RUN	off	normal	2009-06-05 18:38:20	lsfadmin
222	ABAQUS beam 002	USUSP	off	normal	2009-06-04 21:22:35	lsfadmin
252	ansys_doe_004	USUSP	off	normal	2009-06-05 18:38:20	lsfadmin
253	ansys_doe_006	PEND	off	normal	2009-06-05 18:38:20	lsfadmin

## Platform Application Center highlights

**Role-based, self-serve access** - The Platform Application Center can be integrated with existing authentication mechanisms, and can distinguish between regular cluster users and cluster administrators providing appropriate access based on the user's role.

**Web-based job management** - Users can easily manage their own jobs and application data through the Platform Application Center. Users and administrators can perform basic operations like submitting, suspending, resuming, killing or re-queuing jobs without the need to learn Platform LSF command line syntax.

**Flexible data management** - Using the data management features, cluster users can monitor job output in real-time, and can even upload or download files as needed or compress them into various archive formats making simulation results easier to store and catalog.

**Integrated cluster monitoring and reporting** - For cluster administrators using the Platform Application Center, features like cluster monitoring and node monitoring are built in. Administrators interact with a single web-based interface that not only shows cluster health and the status of cluster nodes, but that also provides access to Platform LSF reporting features as well.

**Accessing HPC resources with security** - HPC resources are typically shared by multiple users and user groups. An application centric web interface that provides data access is the best way to provide secured environment for users to run designated applications only, as well as to control data access. Through the web portal, users are allowed to run their applications and access their application related data. But they are restricted to access other areas and run non-HPC related programs.

Whether your Platform LSF environment supports just a few users or several thousand, contact Platform Computing today for a free product evaluation, and learn first hand how easily the portal can be deployed and managed. The Platform Application Center can save time, reduce administrator effort, and improve the productivity of your HPC environment.

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 17 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](http://www.platform.com).

### World Headquarters

Platform Computing Inc.  
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](mailto:info@platform.com)

### Sales - Headquarters

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

### North America

New York: +1 646 290 5070  
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](mailto:info-europe@platform.com)

### Asia-Pacific

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

