

# Platform Analytics 8

## Advanced HPC Analytics



### Key Benefits

- Turn data into decision making
- Quickly identify and remove bottlenecks
- More accurate capacity planning
- Optimize asset utilization
- Greater productivity and efficiency

### Key Features

- Powerful, customizable graphical interface
- Pre-configured dashboards
- Job, resource and service level analysis
- Trend analysis
- External data integration
- High performance database

## Overview

Platform Analytics is an advanced analysis and visualization tool for analyzing massive amounts of Platform LSF workload data. It enables managers, planners and administrators to easily correlate job, resource and license data from one or multiple Platform LSF clusters for data-driven decision-making. With better insight into HPC datacenter environment, organizations can identify and quickly remove bottlenecks, spot emerging trends and plan capacity more effectively.

Unlike traditional business intelligence solutions that require significant time and multiple steps to translate raw data into usable information, Platform Analytics incorporates innovative visualization tools that are built on top of a powerful analytics engine for quick and easy results. Users can utilize the pre-configured dashboards or construct their own, quickly answer questions about their HPC infrastructure and applications and use that information to optimize HPC resource utilization.

## Fully functional, out-of-the-box

Platform Analytics provides several interactive dashboards that are ready to use “out of the box”, making it quick and easy to analyze key HPC data. Other HPC analytics products require users to build complex analytics models from scratch, often with several intermediate steps. With the included Platform Analytics dashboards, managers and administrators are instantly productive, with access to information on cluster capacity, resource usage, and workload accounting and statistics. The dashboards can be easily modified through the Platform Analytics interface to provide users with the most relevant information needed to optimize their HPC business.

## Product Capabilities

### Intuitive, Customizable Interface

Platform Analytics provides users, administrators and executives with an intuitive interface that can be viewed through either a configurable web-portal or a desktop running Windows. The easy to use web-based interface is simple to learn and results are achieved quickly, with minimal effort. Because the dashboards are pre-configured and provide valuable information about resources and workloads out of the box, users are immediately productive and easily gain insights into how resources are being used and by whom.

Using the drag-and-drop capability of the interface, the included dashboards can be easily altered or new dashboards created. Users can also drill into infrastructure or workload accounting data by project, queue and user, and obtain valuable information for any period of interest.

## External Data Integration

With some reporting systems, answering business level questions requires the development of custom reports or the transformation of underlying data into formats better suited to the question being asked. Custom reports are not only time consuming to produce, but they require considerable expertise on the part of person developing them. In comparison, Platform Analytics is flexible and extensible. Existing or new data sources can be rapidly combined with Platform Analytics data to provide data views tailored specifically to an organization's unique requirements without the need to build intermediate data views. Users can connect to cluster, workload and license data in a few clicks, then easily visualize and create interactive dashboards.

## High-Performance Database

Platform Analytics supports Vertica, a state-of-the-art MPP columnar database that runs on standard hardware and uses a fraction of the resources of traditional database management systems. Support for the Oracle database is also available.

## Job and Resource Reporting

Platform Analytics enables users and administrators to visualize job and resource data in multiple ways. By understanding exactly how resources are used, scheduling policies can be adjusted, resulting in better resource utilization and greater overall efficiency.

## Operational Reporting and Analysis

Platform Analytics provides full visibility to data center operations, allowing managers to validate their planning assumptions constantly and make mid-course corrections quickly in order to meet SLAs. In addition, they can ensure that business critical projects have ample resource. By monitoring key metrics such as pending time and license denials, planners can help ensure that business users have access to resources when they need them and at the lowest possible cost.

## Resource and Service-Level Analysis

By analyzing resource use and service levels, administrators can quickly identify issues affecting productivity. Platform Analytics enables administrators to drill into exactly where and why bottlenecks are occurring. This enables them to quickly correct issues that, without the insights provided by Platform Analytics, might otherwise lead to incremental costs.

## Trend Analysis

Platform Analytics turns raw data into usable information, making changes in usage patterns easy to identify. By understanding how the need for different applications and hardware is evolving with time, planners can make better decisions, intercept trends, consolidate under-utilized assets more quickly and ensure that spending is efficient and aligned to business needs.

## Usage Reporting for Chargeback Accounting

Some organizations need to apportion costs between client departments based on actual resource usage. By combining resource, license and job level data, administrators can easily track and view resource usage by user, department or project. The rich capabilities of Platform Analytics make it an ideal platform on which to build sophisticated chargeback accounting solutions reflecting an organization's own unique policies and accounting practices.



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### 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](mailto: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

### Asia-Pacific

Beijing: +86 10 82276000  
Xi'an: +86 029 87607400  
Tokyo: +81(0)3 6302 2901  
Singapore: 65 6307 6590