

eXcellence in HPC Solutions

DecisionHPC™

DECISION-MAKING

Immediately access information critical to executives and managers in making strategic HPC business decisions.

PRODUCTIVITY

Examine performance trends to uncover areas for operational improvement as well as opportunities for better IT and user collaboration.

PURCHASING

Execute purchase decisions based on a holistic view of business requirements and available HPC capacity.

DECISION SUPPORT FOR ENTERPRISE HIGH PERFORMANCE COMPUTING ENVIRONMENTS

Today's High Performance Computing (HPC) Challenges:

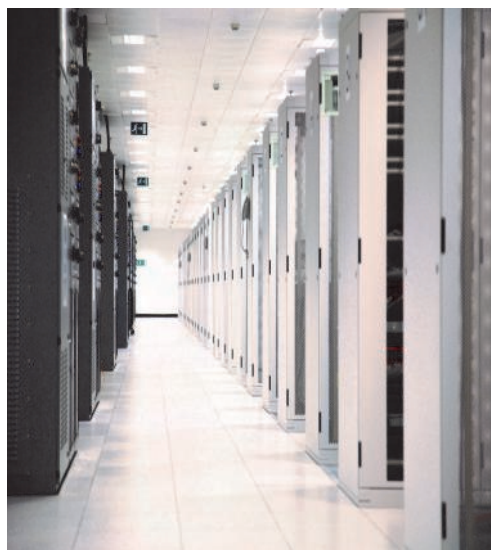
- Proliferation of heterogeneous, geographically-dispersed HPC environments
- Managers and executives forced to make strategic decisions based on heuristics or partial data
- Poorly optimized HPC environments
- Inaccurate forecasting of resource needs against demand
- Difficulty accessing critical real time information such as project costs, resource utilization, capacity, performance, or efficiency metrics

What Is DecisionHPC?

DecisionHPC provides dashboard, analytics, and reporting software allowing executives, managers, users, and support staff to access vital information on every area of HPC including cluster resources, network, storage, and management systems.

*"With several thousand nodes composed of different hardware and middleware, **DecisionHPC works across our entire cluster environment to help us understand our systems on both big-picture and detailed levels.** The level of information available with **DecisionHPC** and its customizable format **has proved to be a major asset to ensuring optimum productivity and helping us realize business objectives.**"*

Keith Ritchie, Manager, IonGeo



Why DecisionHPC?

DecisionHPC is customized to the unique requirements of the customer allowing:

- Execution of analytics-driven HPC strategic decisions
- Improvement in HPC productivity
- More informed HPC purchase decisions

DecisionHPC is the only product in the market today focused on providing comprehensive HPC information for distributed, heterogeneous, mid- to large-scale enterprises.



Inform decision makers strategically. Align capacity and use with business priorities; forecast demand based on historical trends; and maximize HPC return on investment:

- **Dashboard**
Instant view of key operational information with easy-to-understand gauges and graphs.
- **Analytics**
Information and business metrics critical to driving decision-making.
- **Data Collectors**
Ability to gather data from any HPC environment.

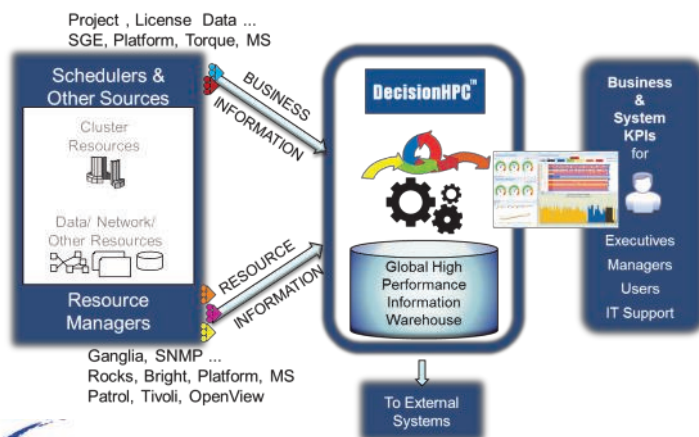
DASHBOARD EXAMPLE



Improve Productivity. Enable production gains, greater efficiency, and a shared service model in which users can budget and managers can charge for cluster use:

- **Heat Map**
Color-coded view of HPC asset performance with data drill-down capability.
- **Alerting**
Condition-based event notification and external alert system integration.
- **Portlets**
Consolidate other web applications into one dashboard.

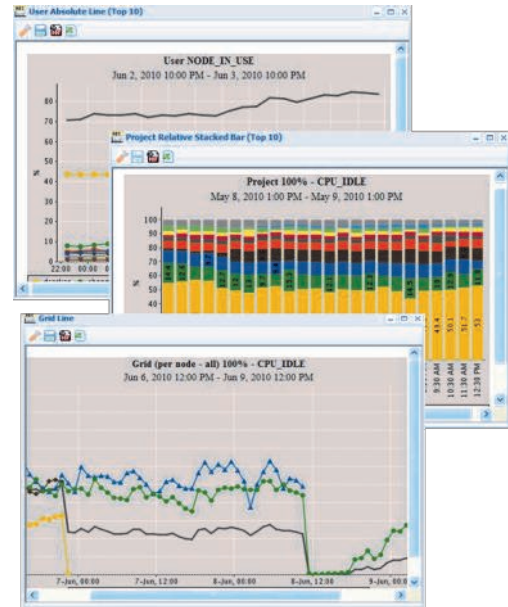
HIGH LEVEL ARCHITECTURE



Optimize purchases. Enhance purchasing as well as budgeting and approval processes with demand forecasts and historical usage patterns:

- **Standard Reporting**
Pre-defined reports for use in areas such as budgeting, purchasing, accounting, auditing, troubleshooting, and monitoring.
- **Batch Reporting**
Report generation and distribution via pre-defined recipient lists.
- **Data Export**
Data extract for integration into external data marts, applications, or spreadsheets.

STANDARD REPORTING EXAMPLES



Decision support software has become critical to optimizing return on HPC investment. The right software must provide a holistic picture of all HPC environments and their constituent technologies. DecisionHPC provides these capabilities customized to the unique requirements of the enterprise.

System Requirements

Client: IE8, 9, Chrome, Firefox

Cluster Environment: Various open source and commercial resource management packages including Ganglia, CJM, Torque, SGE, as well as custom collectors

DecisionHPC is a registered trademark of X-ISS, Inc. All other trademarks mentioned herein are the property of their respective owners.

Copyright © 2012. X-ISS, Inc. All Rights Reserved.

