

## IBM applies cloud environment to create a virtual benchmark center for high-performance computing

### Overview

**IBM Systems and Technology Group**  
United States  
www.ibm.com

### Industry

- Computer services

### Products

- IBM Power® 570 and 575
- IBM System x® iDataPlex™
- IBM BladeCenter® JS21 and JS22
- IBM AIX® 5 and Linux®
- IBM General Parallel File System (GPFS™)
- Direct-attached SAN



*“Our cloud computing environment has enabled us to provide supercomputing resources to geographies across the world with no wait time.”*

—IBM Systems and Technology Group  
Worldwide Benchmark Center

**The IBM Systems and Technology Group Worldwide Benchmark Center in Poughkeepsie, New York, offers a single self-serve Web portal to help on-demand users request and schedule computing resources.**

### Challenge

The IBM Systems and Technology Group sales team was looking for ways to make the sales cycle more time- and cost-efficient. Manual processing of benchmark requests, IT resource allocation, scheduling and provisioning of computing resources was time-consuming and tedious. They needed to implement a solution that would provide a quick benchmark turnaround time for their high-performance computing customers within IBM.

### Solution

By implementing cloud computing, the Benchmark Center was able to dramatically reduce the time required for the benchmark process. This dynamic infrastructure enables the worldwide support team to utilize the resources they need wherever they are located. They can access multiple configurations with thousands of high-performance computing cluster processors, terabytes of storage, the General Parallel File System, high-speed interconnects and the latest software stacks.

Through automation, authorized resources are dynamically allocated for clients to access at the committed start time. Members retain control of their environments while accessing cloud services. As a result, they gain supercomputing power that can look and act like an in-house resource, enabling them to benchmark their applications and obtain results with no wait for system setup or application submission processes.

### Benefits

- Reduces benchmark request processing from 2 days to 30 minutes
- Improves customer service by providing a 24/7 self-serve Web portal
- Reduces staffing requirements while expanding services



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