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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user’s job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.
IBM Spectrum Computing & IBM Spectrum Storage

Cluster Virtualization Software
Central point of simplification and control for optimizing scale-out applications and analytics on shared, heterogeneous compute resources

- High Performance Computing
  Design, Simulation, Modeling

- High Performance Analytics
  Risk Analytics

- New-Generation Workloads
  Spark, Python, R, Deep Learning

* n-premises, in Clouds & Hybrid Clouds

- IBM Spectrum LSF
- IBM Spectrum Symphony
- IBM Spectrum Conductor

IBM Spectrum Computing

IBM Spectrum Storage

* IBM Cloud & other clouds

POWER x86 LinuxONE *SPARC Arm Docker VMs Flash Tape Disk
GPU “Zero Config”**

- Spectrum LSF will automatically detect and configure GPU support.
- This means users can schedule GPU enabled codes as soon as Spectrum LSF is installed.
- We’ve also simplified the syntax for using GPU’s (bsub -gpu) but more complex GPU scheduling requirements can still be specified via bsub -R

**Available 2Q2018
Under-specifying memory leads to job being killed - loss of productivity.

Over-specifying memory leads to:

- Low utilization - loss in productivity
- Higher costs - Users demanding “big memory machines” when they don’t need them.
- Higher execution costs when running on the cloud – paying for much larger instances than needed.
Simplified Packaging, more value

IBM Spectrum LSF Suite for Enterprise
IBM Spectrum LSF Suite for HPC
IBM Spectrum LSF Suite for Workgroups

IBM Spectrum LSF
Core scheduler

Application-centric user portal
Lightweight reporting and dashboards
Workflow automation
Intelligent data staging
Hybrid cloud auto scaling
Software license optimization
Enterprise scalability

Spectrum LSF Suites for HPC available at no charge**
via the IBM Academic Initiative
http://developer.ibm.com/academic

**Subject to the terms and conditions of the IBM Academic Initiative
The Key to Enterprise AI

End to end solution for managing AI workflows

- Simplified data preparation/ingest
- Hyperparameter tuning with visual feedback
- Elastic training – add and remove GPUs to training jobs
- IBM PowerAI: Available deep-learning frameworks optimized for IBM Power Systems
IBM Elastic Storage Server – powered by IBM Spectrum Scale

Integrated scale-out data management for file and object data

- Based on IBM Power Systems
- Optimal building block for high-performance, scalable, reliable enterprise storage
- One solution for all of your data needs
- Easy to deploy with unified GUI
- Enhancements in IBM Spectrum Scale 5.0 driven by CORAL requirements
Thank You
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