

# GPFS Spectrum Scale Solutions High-Performance Clustering



## Scalable File and Object Storage for analytics and content repositories



### Key Features

- A highly available clustering
- Concurrent share disk and global namespace
- High-Perf parallel workloads
- Massive namespace support
- Centrally deploy, manage, back-up and grow

### Highlights

- Consolidate storage across traditional and new-era workloads for object, Hadoop and analytics uses
- Achieve cost effectiveness and operational efficiencies, deliver up to 10 times higher performance
- Lower the cost of data retention up to 90 percent through cognitive and policy- driven automation
- Improve app performance with scale-out flash
- Enable collaboration and efficient sharing of resources among global, distributed teams
- Transparently tier cloud, object storage, on-premises or public cloud

Explosions of data, transactions, and digitally-aware devices are straining IT infrastructure and operations, while storage costs and user expectations are increasing. The General Parallel File System (GPFS™), high-performance enterprise file management, can help you move beyond simply adding storage to optimizing data management.

The GPFS now known as IBM Spectrum Scale is a high-performance clustered file system developed as a software defined storage for big data and analytics, and available for cloud and NAS solutions. It can be deployed in shared-disk or shared-nothing distributed parallel modes. RAID Inc. assisted GPFS solutions are used by many of the world's largest commercial companies and supercomputers

### GPFS Clustered Storage: A Solution Overview

RAID Inc. has a long history of fine tuning GPFS to customer specifications and performance requirements. Our engineers are among the most qualified in the world to review existing systems and identify opportunities for optimizing GPFS performance based on various applications. We also have a proven process to study application and data workflows to understand and mitigate potential performance barriers in getting clients set up for the first time using GPFS.

GPFS provides concurrent high-speed file access to applications executing on multiple nodes of clusters with concurrent shared disk access to a global namespace in either block level or file level and capabilities for high performance parallel workloads. GPFS can be used with disparate or heterogeneous clusters of AIX, Linux and Windows nodes. In addition to providing filesystem storage capabilities, GPFS provides tools for management and administration of the GPFS cluster and allows for shared access to file systems from remote GPFS clusters. All software features such as snapshots, replication and multi-site connectivity are included inherently.

