



## FrostByte with ThinkParQ BeeGFS Storage

### Flexible, High Performance Storage



#### FrostByte with ThinkParQ BeeGFS Storage

Penguin Computing and ThinkParQ are allied to deliver FrostByte™ storage solutions featuring the BeeGFS parallel file system. High-performance computing demands high-performance storage. BeeGFS is the leading, actively developed and supported, parallel, cluster file system with a strong focus on performance, scalability, and ease of management. With BeeGFS, seamlessly scale performance and capacity to meet the requirements of your most I/O intensive workloads.

Penguin Computing FrostByte solutions lift the limitations imposed by traditional storage appliances and empower businesses with open, agile, scale-out, and cost-effective software-defined storage. FrostByte features include:

- top-of-class hardware.
- engineered designs for optimal performance and reliability.
- configurable capacity, data-protection, and performance.
- highly scalable architectures.
- robust data protections.
- simplified administration.
- expert support and professional services.
- on-premise and managed hosting options, including SysAdmin-as-a-Service.
- backed by the industry leaders in high-performance computing and storage.

#### About Penguin Computing

Penguin Computing® is the largest, private, North American supplier of Linux®-focused hardware, software, and services for enterprise data center, high performance computing, and cloud solutions. Penguin Computing pioneers the design and engineering of open technologies, including its efficient, high density Tundra® platform for HPC and scale-out data center.

Leveraging decades of experience, Penguin Computing delivers top-of-class services and support, and also operates the leading, public HPC cloud service, Penguin Computing On-Demand™.

Visit us at [www.penguincomputing.com](http://www.penguincomputing.com).

#### About ThinkParQ

ThinkParQ® was founded as a spin-off from the Fraunhofer Center for High Performance Computing by the key people behind BeeGFS® to bring fast, robust, scalable storage to market. ThinkParQ is responsible for support, provides consulting, organizes and attends events, and works together with system integrators to create turn-key solutions.

ThinkParQ and Fraunhofer internally cooperate closely to deliver high quality support services and to drive further development and optimization of BeeGFS for tomorrow's performance-critical systems.

Learn more at [www.thinkparq.com](http://www.thinkparq.com).

FOR INFORMATION, PLEASE CONTACT:

[sales@penguincomputing.com](mailto:sales@penguincomputing.com)

1-888-PENGUIN (736-4846)

twitter: @PenguinHPC

[www.penguincomputing.com](http://www.penguincomputing.com)



FrostByte with ThinkParQ  
BeeGFS Storage

Penguin Computing FrostByte delivers the performance and capacity scaling of ThinkParQ BeeGFS with top-of-class hardware and service options, making it ideally suited for use cases demanding high-performance and high-throughput, including but not limited to:

- analysis and simulation.
- life sciences.
- deep learning.
- financial services.
- oil and gas.
- big data analytics.
- multimedia & entertainment.



## Key features

- Highly optimized client and storage throughput.
- Scalable distributed metadata architecture.
- Support for multiple networks (Ethernet, InfiniBand, & Omni-Path) with dynamic failover.
- Fault-tolerance delivered by built-in replication and file system sanity checks.
- Flexible striping per file and per directory.
- Shared nothing and high availability shared storage options.
- Robust and easy to use graphical administration and monitoring.

### BeeOND (BeeGFS On Demand)

BeeOND allows on-the-fly creation of a complete, parallel file system instance on a given set of compute nodes with just one command.

BeeOND is designed to integrate with cluster batch systems (e.g., PBS, SLURM, etc.) to create temporary, parallel file system instances on a per job basis. This provides a very fast buffer while keeping much of the I/O load for temporary, random access files away from the global cluster storage.

FOR INFORMATION, PLEASE CONTACT:  
sales@penguincomputing.com  
1-888-PENGUIN (736-4846)  
twitter: @PenguinHPC

[www.penguincomputing.com](http://www.penguincomputing.com)