



Designed for uncompromisingly high performance and exceptional reliability, JackRabbit™ storage servers provide outstanding service at competitive prices.

## Enabling Extreme Performance

JackRabbit is a tightly coupled, high performance computing and storage platform that integrates high speed processing and high bandwidth/ low latency network capability to cut through the most difficult computational problems. And prices start at less than \$1 per GB.

## Real World, Real Tests

In addition to standard benchmarking measurements, JackRabbit is put through its paces with the same configurations, software setup, tuning, and file sizes that your business will utilize.

This presents you with the most accurate representation of the real-world performance you can expect to receive when JackRabbit is up and running in your facility.

## Leap Ahead

During real-world operations as well as tests, JackRabbit consistently outdistances competitive systems in sustained bandwidth for TB sized IO:

- JR4: 2.6 / 2.3 GB/s
- JR4 60-bay: 7.2 / 6.0 GB/s

### Networking Options

- TCP/IP, RoCCE
- RDMA/IB
- FC/FCoE target

### Available Operating Systems

- Server OS: Linux, Windows 2003/8 x64, OpenSolaris: SmartOS, Illumian
- Appliance OS: Nexenta, Illumian

### Usable as:

- Block target: iSCSI/iSER, SRP, FC
- File target: NFS, SMB/ CIFS, FTP
- Hadoop, MapReduce, Big Data storage and computing engine
- Cluster filesystem: GlusterFS, Lustre, FhGFS, PVFS2, others

### Use Cases

- Financial services
- Big Data Analytics
- Next Generation Sequencing, and BioIT data storage/compute
- High performance computing systems

### Configuration Options

- SATA: up to 4TB/disk, SAS: up to 3TB/disk
- Fast networks: 2-14x GbE, 0-8x 10GbE, 0-8x IB (QDR/FDR/EDR), Fc8/x16
- RAID: 6, 10, 22

### Standard Warranty

- 3-year parts exchange

### Support Options

- Extended warranty and next business day parts
- Remote support
- Depot on site



JR4-T60b

	JR2-F12b	JR4-F24b	JR4-T60b
Form Factor	2U rack unit	4U rack unit	4U rack unit
Intel/AMD Physical (Virtual) CPU Cores	Up to 16(32) / 32(32)	Up to 40(80) / 64(64)	Up to 16 Intel Xeon E5
System Memory	up to 512GB	up to 768 GB	up to 512 GB
Raw Storage Capacity in TB	6 / 12 / 24 / 36 / 48 TB	12 / 24 / 48 / 72 / 96 TB	60 / 120 / 180 / 240 TB
Raw Storage per Rack	up to 960 TB	up to 960 TB	up to 2,400 TB (2.4 PB)
Hot-Swappable Hard Disks	12 (front-load)	24 (front-load)	60 (top-load)
Streaming Read/Write bandwidth	900 / 800 MB/s	2,600 / 2,300 MB/s	7,200 / 6,000 MB/s
Network Ports	2 to 6 GbE 0-2 x 10GbE 0-2 InfiniBand	2 to 14 GbE 1-8 x 10GbE and/or 0-4 IB or 40GbE	2 to 14 GbE 1-8 x 10GbE and/or 0-4 IB or 40GbE
RAID Controllers	1	2	5





## Do More . . .

The Delta-V storage target from Scalable Informatics is designed to succeed in circumstances where performance is mandatory, but cost containment is critical.

This allows customers to set up sizable storage systems or storage cluster configurations that scale to many petabytes, with costs per GB that decrease with increased capacity. This helps keep budgets realistic and under control.

## . . . Spend Less

Scalable Informatics optimized the design of the Delta-V to minimize cost, and tuned the software stack for both performance and reliability.

The combination of *low cost* and *high performance* enables customers to increase productivity without breaking the bank.

**Delta-V. Increase your velocity.**

### Usable As:

- Fast iSCSI target
- Lustre (OSS/MDS)
- NFS/CIFS server
- GlusterFS storage brick node

Designed with cost optimization in mind, the Delta-V™ series of storage appliances provide superior performance at an amazing price point. With powerful multi-core processors and a tuned software stack, the Delta-V provides the speed boost your work needs—starting at well under \$1,000 per usable terabyte.

### Configuration Options

- Rack Units: 1U, 2U, 3U, 4U, 5U
- Disk Size: 500, 1,000, 2,000, 3,000, 4,000 MB
- Disk Type: SAS, SATA
- Network: InfiniBand, 10GbE, 40GbE, FCx8/x16
- Raid: 6, 10

### Benchmark Performance

- 2,000 / 1,400 MB/s read/write

### Standard Warranty

- 3-year parts exchange

### Support Options

- Extended Warranty and next business day parts
- Remote support
- Depot on site

### We'll be there when the sun sets

*siCluster™ features Scalable Informatics JackRabbit and Delta-V, which are built with long-term utilization in mind. We designed the systems with open source Linux and standard drivers so that you have the ability to support them in-house, should you so desire. Gone is the possibility of these systems becoming "bricked"—made obsolete as their manufacturer discontinues support—as has happened in the HPC industry so recently with Tier 1 manufacturers.*

*Scalable Informatics systems will continue to run and be supportable regardless of any circumstances external to your business. We are not out to entrap you with closed systems and keep you beholden to us. Instead, we want you to succeed, see the value of our systems, and come back for more as your business grows.*



**ΔV 4-F24b**

### SYSTEM ARCHITECTURE

Processor  
System Memory  
Raw Storage Capacity  
Hot-Swappable Hard Disks  
Network Ports

### NETWORKING AND OS

Storage Network Options

Interoperates with

#### ΔV2-F12b

2U rack unit

#### ΔV4-F24b

4U rack unit

#### ΔV4-F60b

4U rack unit

Multi-Core

16 GB

16 GB

64 GB

up to 48 TB

up to 96 TB

up to 240 TB

12 (front-load)

24 (front-load)

60 (top-load)

[default] 2 GbE, 1 x 10GbE  
[optional] up to 4x 10GbE, up to 2x InfiniBand or 40GbE

[file based] NFS, SMB/CIFS  
[block based] iSCSI target/initiator, SRP/FC target  
[cluster file system] GlusterFS, PVFS2, GFS, OCFS2, Lustre

Linux, Windows, OSX

