Windows Flash Array

Combine Violin's enterprise-class storage with the ease and flexibility of Windows Storage Server 2012 R2 in an integrated solution so you can achieve higher performance and efficiency for your business critical Microsoft applications in physical, virtual, and private cloud environments.

Transform Your Datacenter Performance and Economics

Violin's Windows Flash Array (WFA) delivers game changing performance to your datacenter so you can do more with the IT resources that you already have. The combination of Violin's patented flash storage optimization algorithms, Microsoft's fast SMB Direct protocol, and Microsoft Windows Storage Server 2012 R2 means you can optimize your Windows Server environment to deliver consistent high performance on a simpler architecture with reduced CPU load for every byte, every time.

Workloads including OLTP, business intelligence, and data warehousing as well as virtualized enterprise applications (Hyper-V) and VDI are ideal for WFA's performance. But today's enterprise requires more than performance. Continuous availability with reduced risk to operations is at the center of the WFA design. Multilayered hardware and software resiliency delivers enterprise-class performance and resiliency so that your mission critical applications and data will remain online 24x7.

The WFA runs at PCIe speeds to deliver the features of a SAN at the price of NAS with the performance of DAS. With the WFA, you can maximize your Microsoft IT ROI.

To learn more about how WFA can dramatically improve your Microsoft Windows Server environment, please contact your Violin Memory representative.

Highlights

The WFA Effect

- **Higher Performance than leading industry standard all-flash arrays:**
  - SQL Writes up to 2x faster
  - SQL Reads up to 1.5x faster
  - Hyper-V Writes up to 1.4x faster
  - CPU loads reduced up to 30%
  - Latency at speed of ~500 µsecs.

- **Lower CAPEX through:**
  - Increased consolidation
  - Higher VM density
  - Increased utilization

- **Lower OPEX through:**
  - Microsoft management tools
  - 3U form factor with reduced facilities requirements

Unique Value

- Jointly developed with Microsoft
- Kernel level optimized integration with Microsoft Windows Storage Server 2012 R2
- SMB Direct dramatically increases application performance

Rich Storage Features

- Deduplication
- Storage Live Migration
- Thin Provisioning
- Compression
- Mirroring
- Replication
- Scale-out File Server

VIOLIN WINDOWS FLASH ARRAY
vs. INDUSTRY STANDARD ALL FLASH ARRAY

IOPS

SQL Writes	SQL Reads	Hyper-V Writes
↑ 2x INCREASE	↑ 54% INCREASE	↑ 41% INCREASE