

# Why Violin for Virtual Environments

Violin overcomes the I/O blender effect of virtualization. Our all-flash arrays deliver high performance with operational simplicity and allow our customers to consolidate more business-critical applications and databases per server CPU core without compromising service levels. With this level of consolidation our customers experience significant reductions in infrastructure and operational costs.

- 1. Achieve Unmatched VM Density & Performance** – Ongoing storage performance mapping and tuning, disk groupings, and hot spots issues are things of the past. With our extremely low, sub-millisecond latency, you can achieve greater VM density with existing server resources.
- 2. Virtualization of Business-Critical Applications with Confidence** With 10x lower transactional latency compared with legacy storage systems, you can accelerate business critical workloads while delivering transformative data center economics.
- 3. Selectable Storage Efficiencies with High Performance** – Violin options include optimized inline de-dupe and compression, LUN-selectable inline de-dupe and compression, or share-selectable low-overhead post de-dupe and compression to maintain maximum storage performance.
- 4. Enterprise-Class Reliability** Violin's vRAID technology ensures integrity and reliability of data on flash memory storage. Delivering resiliency and high availability that is required for highly consolidated virtual environments.
- 5. Improve Virtualized Operations with Enterprise Data Services** reduce costs through thin provisioning, deduplication, data compression, and space efficient snapshots. Available data protection options include replication, mirroring, and encryption.
- 6. Cost Reduce Your Infrastructure** Consolidate more applications and databases per server to increase utilization and lower infrastructure spend. In addition, you can reduce electrical costs by at least 40% compared with SSD arrays.
- 7. Reduce Storage Overhead** Lower operational overhead while reducing space, power, and cooling needs by 90% compared to pure disk-based environments.
- 8. VMware Integration for Simplicity & Continuity** Deep API hooks comprehensive integration with vSphere through VAAI (array integration), VASA (array awareness), and other APIs. VMware vCenter Plugin integration for easy storage provisioning, configuration and monitoring.
- 9. Clone Virtual Machines Faster** By combining memory-like I/O performance with cloning offload and VAAI, Violin will dramatically reduce VM cloning time for large scale VM deployments.
- 10. Reduce Storage Migration Time, Up to 95%** Reduce Storage vMotion time by up to 95% by offloading VMDK Copy operations to Violin arrays.