

What is an NVDIMM?

A Non-Volatile Dual In-Line Memory Module (NVDIMM) is the combination of DRAM and NAND Flash in an industry standard DIMM form factor that provides DRAM performance with the non-volatility of flash. The NVDIMM can be utilized as the fastest tier of any storage application and significantly improve performance and reduce I/O bottlenecks.



DRAM is a volatile storage medium that offers the highest performance, in terms of throughput and latency, with almost infinite write endurance and high reliability.

NAND Flash is a non-volatile storage medium that offers the highest capacities at significantly lower price points than DRAM. Because NAND is non-volatile, data is permanently stored regardless of power interruptions.

Supercapacitors (“supercaps”) provide the power needed to transfer data from the DRAM to flash during a power interruption. Supercapacitors are environmentally friendly and eliminate the need for batteries.



- ✓ High Speed
- ✓ Endurance
- ✓ Reliability



- ✓ High Capacity
- ✓ Low Cost
- ✓ Non-Volatile



- ✓ Eco-Friendly
- ✓ High Efficiency
- ✓ Maintenance Free

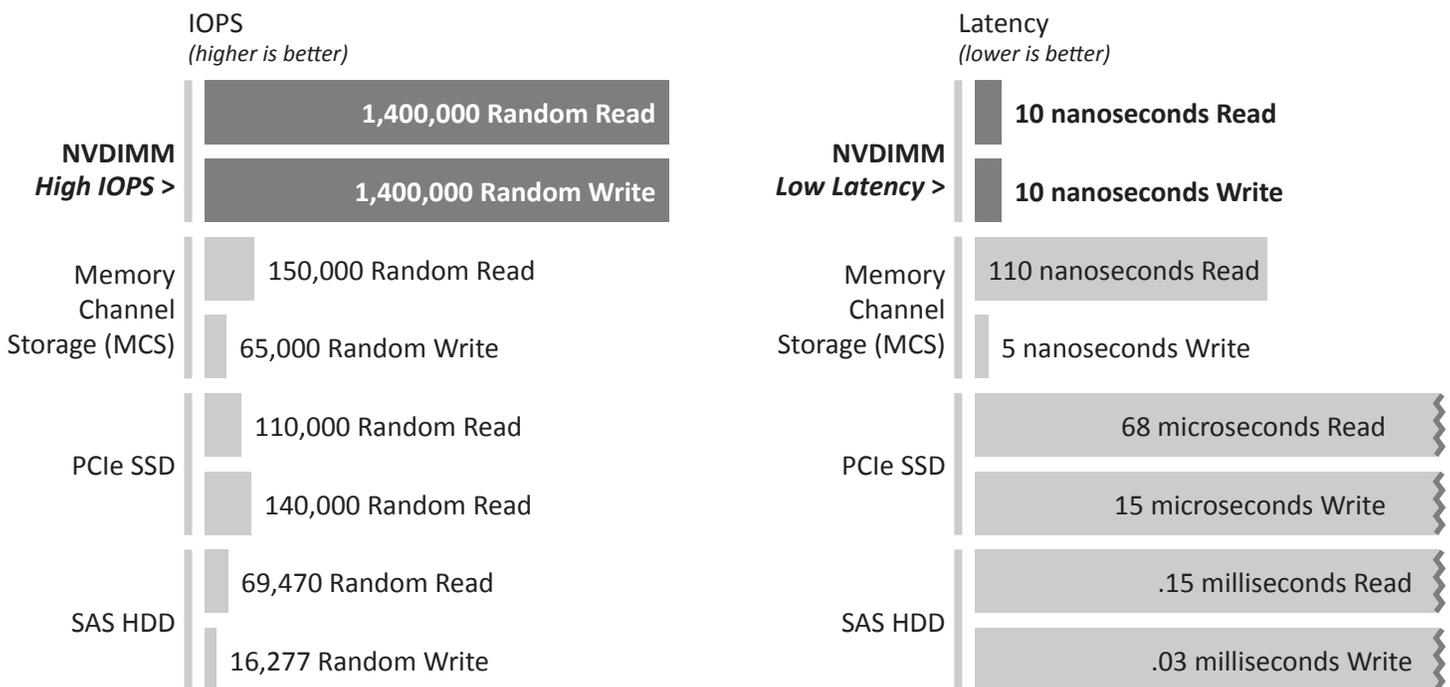
NVvault®

Non-Volatile Dual In-Line Memory Module

NVDIMM Overview

Performance

NVDIMM technology provides a dramatic performance increase in any application where there are storage and I/O bottlenecks.



Applications

- Write Caching
- Metadata Storage
- Tiered Storage
- Data Protection
- In-Memory Database
- Big Data Analytics
- On-Line Transaction Processing
- Virtualization
- RAID Storage

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