

Demartek Lab Notes

Real-world, Hands-on Research & Analysis

September 2013



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The computing industry is experiencing an increasing demand for storage performance and bandwidth due to increases in virtual machine density, increasing demands for application performance and continual data growth. In many cases, enterprises are currently constrained by the available bandwidth between the servers and storage, or foresee a constraint as they observe their growing data consumption patterns. Demartek put HP's new 16GFC HBA to the test and the results can be viewed [here](#).



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As enterprises consider the ever-growing demands for improved performance and lower latency of mission-critical applications, IT organizations are turning to the undeniable advantages provided by flash-based storage solutions. Flash-based storage solutions are maturing, providing greater performance and supporting larger numbers of host servers than ever before. EMC's new VNX8000 and XtremSW Cache were recently tested by Demartek and the results were unlike any we've seen before. View the full report [here](#).

[Demartek Podcast Interview with HP](#)

The computing industry is experiencing an increasing demand for storage performance and bandwidth causing many to ask questions about when, and how best, to upgrade storage networks to the latest generation. With increases in virtual machine density, increasing demands for application performance and continual data growth, there is an increasingly obvious need for new technology to support these larger workloads. Dennis Martin recently sat down with HP to discuss the state of storage networks as well as test results from HP's new host bus adapter. [Read the articles and listen to the interview.](#)

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Demartek Speaking Events

[Demartek Discusses SSDs at Storage Decisions Conference New York in September](#)

Dennis Martin, Demartek President, will present two sessions at Storage Decisions New York in September. These sessions include:

- September 16, 9:00am-10:00am: [Solid-State Storage is Everywhere - But Where Does It Work Best?](#)
- September 16, 2:00pm-3:00pm: [Solid-State Technology - What's New?](#)

To get all the info and to register for this event, visit the [Storage Decisions](#) site.

[Demartek to Present at SNW USA in October](#)

In October Dennis Martin will be presenting three sessions at the Storage Networking World Conference in Long Beach, CA. These sessions include:

- October 15, 10:30am-11:10am: [I/O Virtualization - The Next Virtualization Frontier](#)
- October 15, 3:00pm-3:40pm: [Analyst Perspective and Test Lab Report: Using File Server Protocols for Block-Based Storage Workloads](#)
- October 17, 10:30am-11:10am: [Solid State Storage Performance Comparison: SSD Cache Performance](#)

To learn more about this event and to register, visit the [Storage Networking World](#) site.

Top Ten Demartek Pages and Reports

We have a feature on our website that lists the top ten most popular pages and reports for the last four weeks, updating every Monday morning. Here's how it looked on September 9th:



1. [Demartek SSD Deployment Guide](#)
2. [Demartek Storage Networking Interface Comparison](#)
3. [Demartek Presents Robocopy at March 2011 RMWTUG Meeting](#)
4. [Demartek News and Reports](#)
5. [Demartek About Us](#)
6. [Demartek Evaluation of HP StoreFabric SN1000E 16 GFC HBA](#)
7. [Demartek Evaluation of EMC VNX8000 and XtremSW Cache](#)
8. [Demartek Publishes Exchange Server 2003 vs 2007 vs 2010 I/O Comparison Summary](#)
9. [Demartek Low Latency Evaluation of Fibre Channel, iSCSI and SAS Host Interfaces](#)
10. [Demartek SSD Zone](#)

Be sure to check back every Monday to see which reports have made the Top Ten List. The [current top ten list](#) can also be viewed on the Demartek website.

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Word from the President

We continue to work with a variety of SSD technologies, and continue to see development of new SSD form factors, new interfaces and more. In addition, we continue to test with high speed interfaces such as 16Gb Fibre Channel and others. We have seen some interesting side effects, as host CPU utilization goes up, significantly in some cases, when SSD technology is deployed. This can have an impact on virtual-to-physical server ratios, if you're used to calculating these based on HDD storage. I hope to see some of you in New York or Long Beach at some of the upcoming events!



Dennis Martin, President, Demartek

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