

Demartek Lab Notes

Real-world, Hands-on Research & Analysis

August 2015



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The Dot Hill AssuredSAN 4824 storage array delivers enterprise-class storage at a cost that may be attractive to small and medium businesses. In our testing we compared several performance metrics including bandwidth, IOPS, number of database transactions per second and I/O latency to gain a complete understanding of this affordable, high-performance machine.

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[Demartek Presentation From Flash Memory Summit Now Available](#)

Earlier this week Dennis Martin, President of Demartek, presented at the popular and well-attended Flash Memory Summit. The presentation, "Real-World Performance of Flash-Based Storage Systems", was well-received and was intended for anyone who is using, buying, planning, developing, selling, or marketing flashed-based storage products and needing to understand their performance under real-world conditions. If you missed the presentation, your in luck. The slides are now available via the link above.

Top Ten Demartek Pages and Reports

We list the top ten most popular pages and reports for the last four weeks, updating every Monday morning. Here's how it looked on our website on August 10th:



1. [Demartek Monthly Browser Usage Statistics](#)
2. [Demartek Storage Networking Interface Comparison](#)
3. [Demartek Presenting at Flash Memory Summit - August 2015](#)
4. [Demartek Presents Robocopy at March 2011 RMWTUG Meeting](#)
5. [Demartek SSD Zone](#)

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6. [Demartek News and Reports](#)
7. [Demartek Evaluation - HP ProLiant Gen8 vs Gen9 Server Blades](#)
8. [Demartek Commentary - Deleting Files with Long File Names](#)
9. [Demartek - About Us](#)
10. [Demartek Lab Validation and Testing](#)

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.

Word from the President

Since I'm attending the Flash Memory Summit this week, it is quite understandable that flash and other non-volatile memory technologies are top of mind for me. Here are a couple of takeaways from this week's activities:



Multiple Workloads

It's no longer enough for an all-flash array to claim sub-millisecond latency when running a single workload. The real question is how does it perform when running multiple simultaneous different workloads? What are the sources of latency in addition to the storage system? Where is latency being measured? My Flash Memory Summit presentation explored these questions.

Rethinking the difference between Memory and Storage

Some ideas regarding memory and storage have been percolating in some corners of the computing industry mostly unnoticed for a few years that are now starting to come to the light of day. I will write a commentary piece soon that explores the ramifications of these new developments.

Dennis Martin, President, Demartek

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