SPC Performance

Enterprise Storage Division

Provided to Xyratex under NDA

SPC Throughput Performance

- In this presentation the SPC throughput performance test results are presented .

- The hardware and software configurations are described in the following slides.
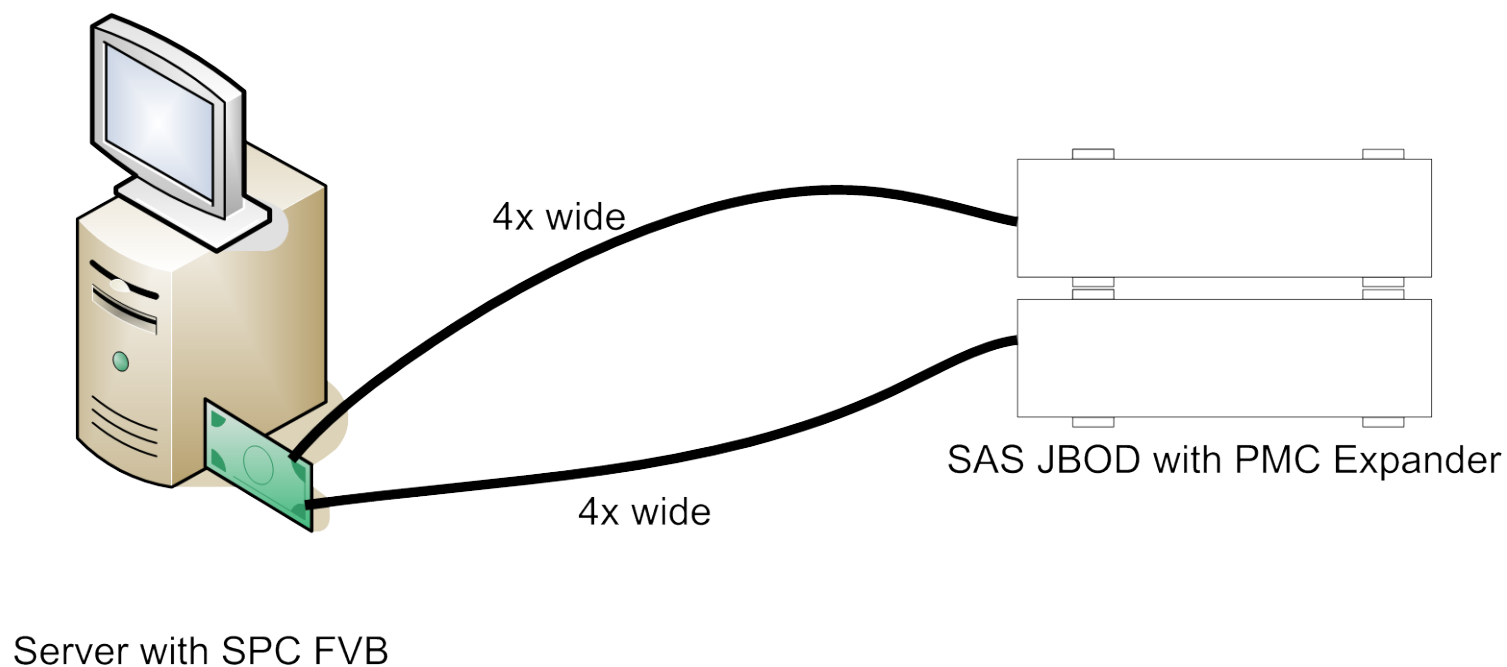
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Server Hardware Specifications

System Manufacturer	Dell Inc.
System Model	Precision WorkStation T7400
System Type	X86-based PC
Processor	Intel(R) Xeon(R) E5405 @ 2.00GHz, 1995 Mhz, 4 Cores
BIOS Version/Date	Dell Inc. A02, 3/22/2008
SMBIOS Version	2.5
Installed Physical Memory (RAM)	1.00 GB
PCIe	8x - Gen 2

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Server OS Specifications

- OS :
  - Microsoft® Windows Server® 2008 Standard

    Version 6.0.6001 Service Pack 1 Build 6001

- Windows Controller Driver:
  - PMC-Sierra SPC-8X6G SAS/SATA Controller (storport)
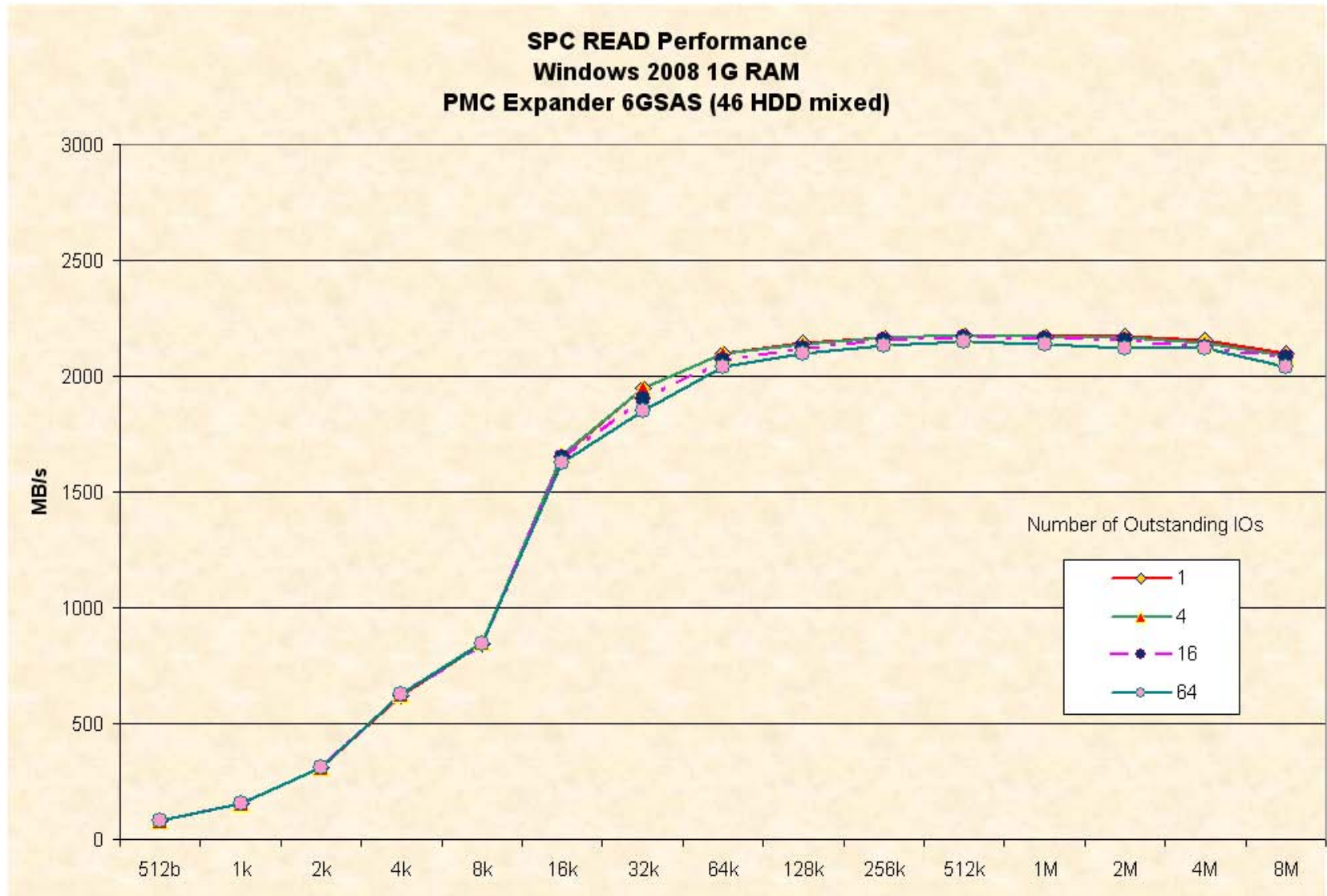 - c:\windows\system32\drivers\pmspclh.sys

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Performance Test System

4x wide

4x wide

SAS JBOD with PMC Expander
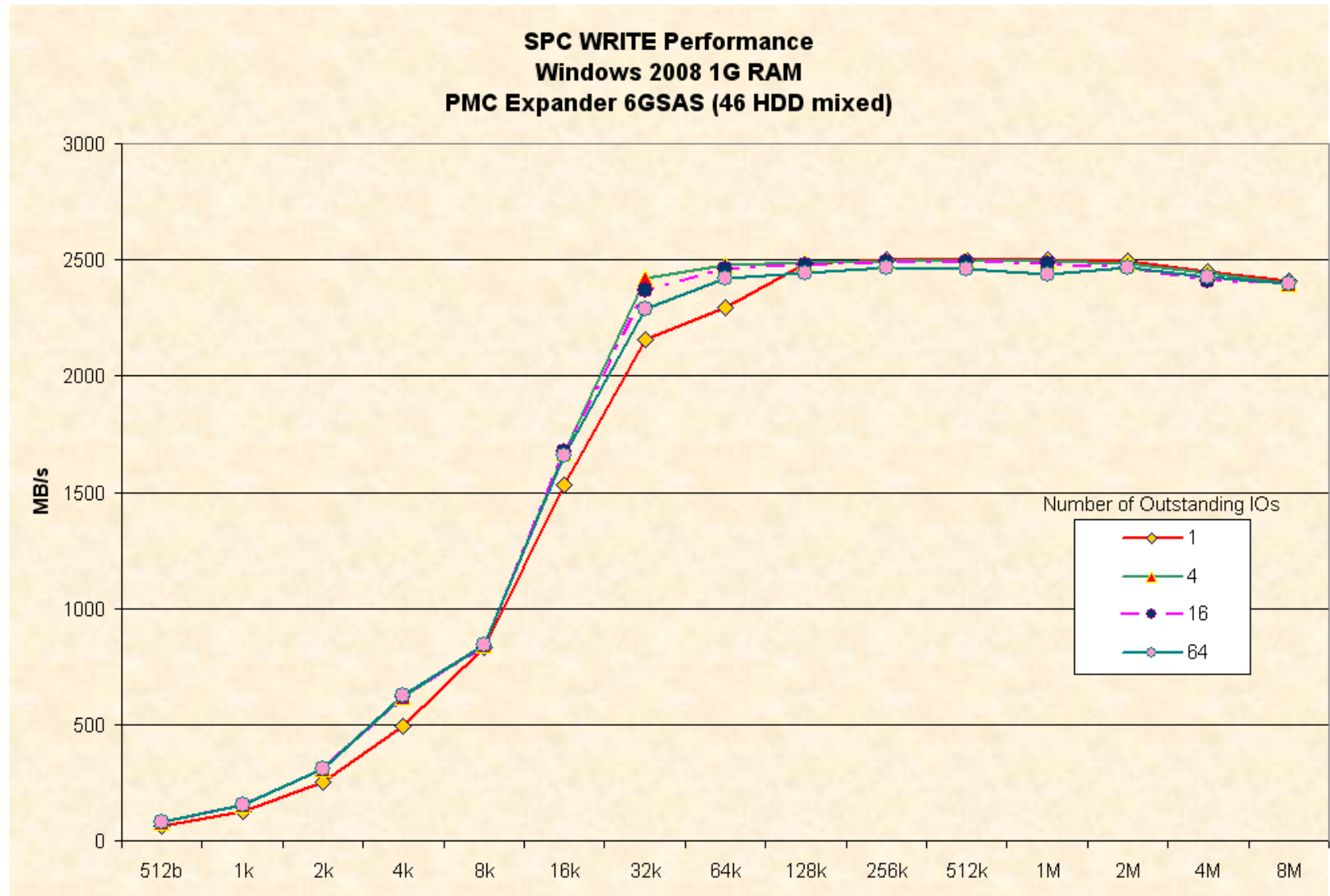
Server with SPC FVB

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SPC 6G Measurements Plots

- The following plot shows the SPC performance of Large Topology under windows 2008:
  - All permutations of IO sizes (512B … 8MB)
  - Number of Outstanding IOs (1,4,16,64)
  - Sequential READ and WRITE with **46 6G SAS HDDs**

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SPC READ Performance
Windows 2008 1G RAM
PMC Expander 6GSAS (46 HDD mixed)

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SPC WRITE Performance
Windows 2008 1G RAM
PMC Expander 6GSAS (46 HDD mixed)

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www.pmc-sierra.com

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