



HighPoint RocketRAID 2310
PCI-Express Performance for Everyday Computing

February 20, 2006



Test Environment:

CPU: (2) Xeon 2.8 GHz EM64T
Motherboard: Supermicro X6DHE-G
Memory: 4GB SDRAM
HDD: (4) WD2500KS-00MJB0
OS: Windows 2003 Enterprise Server SP1

Testing Utility: IOmeter 2004-07-30
Host Adapter Info: RocketRAID 2310 (v1.0)

Device Driver: RocketRAID 2310 (1.0)



Summary

The HighPoint RocketRAID 2310 PCI-Express to SATA II RAID Controller was used in this benchmark to simulate sequential READ and WRITE workloads. The results measure small and large block sizes.

RAID level 0 and 5 arrays were created on the RocketRAID 2310 and test scripts for IOmeter was run under Windows 2003 Enterprise Server with SP1.

The test results reveal that the RocketRAID 2310 offer the performance needed for bandwidth intensive applications.



RocketRAID 2310

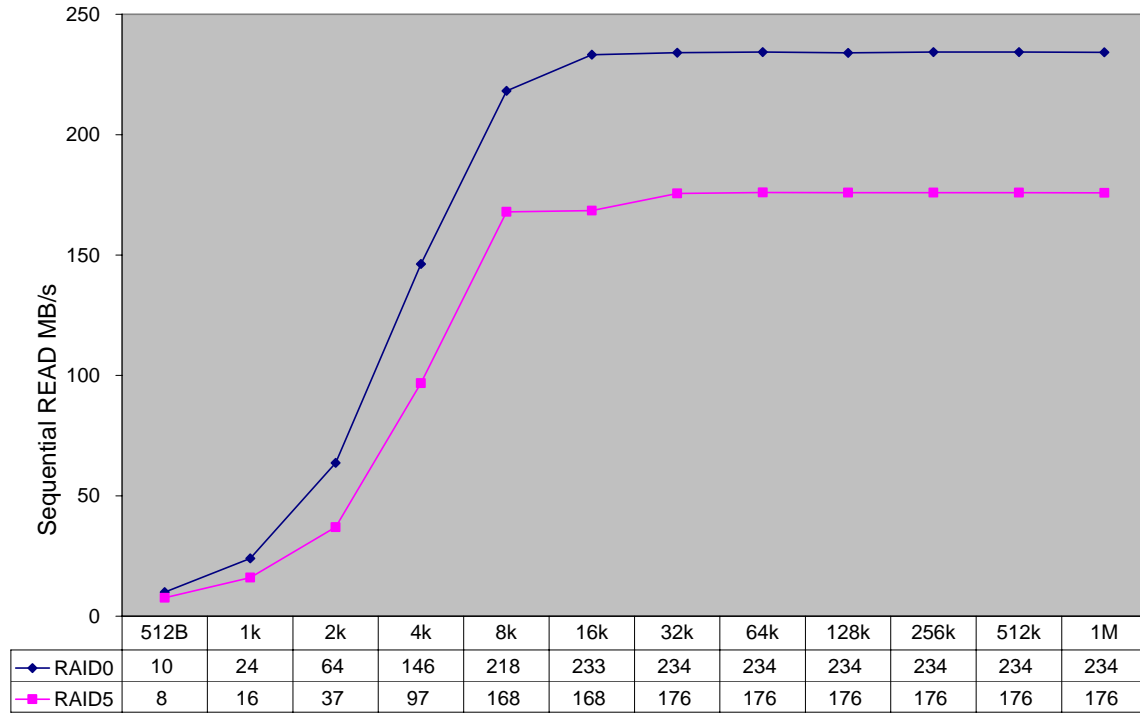


- . PCI Express x4
- . SATA II and SATA I hard drive support
- . Up to 300MB/s for each SATA II drive port
- . Support RAID level 0, 1, 5, 10 and JBOD
- . Online Capacity Expansion and Online RAID Level Migration (OCE/ORLM)
- . Native Command Queuing (NCQ)
- . SAF-TE enclosure management
- . Hard drive activity and Failed LED support
- . Staggered drive spin-up support
- . Hot swap and hot spare
- . Write-through and write-back cache support
- . Quick and Background initialization for quick RAID configuration
- . Online array roaming
- . BIOS booting support (INT13)
- . 64bit LBA for over 2TB support
- . Automatic RAID rebuild of failed drive
- . S.M.A.R.T drive monitoring for status and reliability
- . Browser-based RAID management software
- . Command Line Interface (CLI)
- . SMTP for email notification
- . Operating system support for Windows, Windows x64 Editions, Linux (open source) and FreeBSD (open source) and Mac OS X



RAID 0 and RAID 5 Sequential READ

RocketRAID 2310 RAID 0 and 5 READ Performance Results





RAID 0 and RAID 5 Sequential WRITE

RocketRAID 2310 RAID 0 and 5 WRITE Performance Results

