

HighPoint RocketRAID 272x Delivers **95%** Higher RAID 5 Write Performance than LSI MegaRAID SAS 9240 Controller

Benchmark Analysis

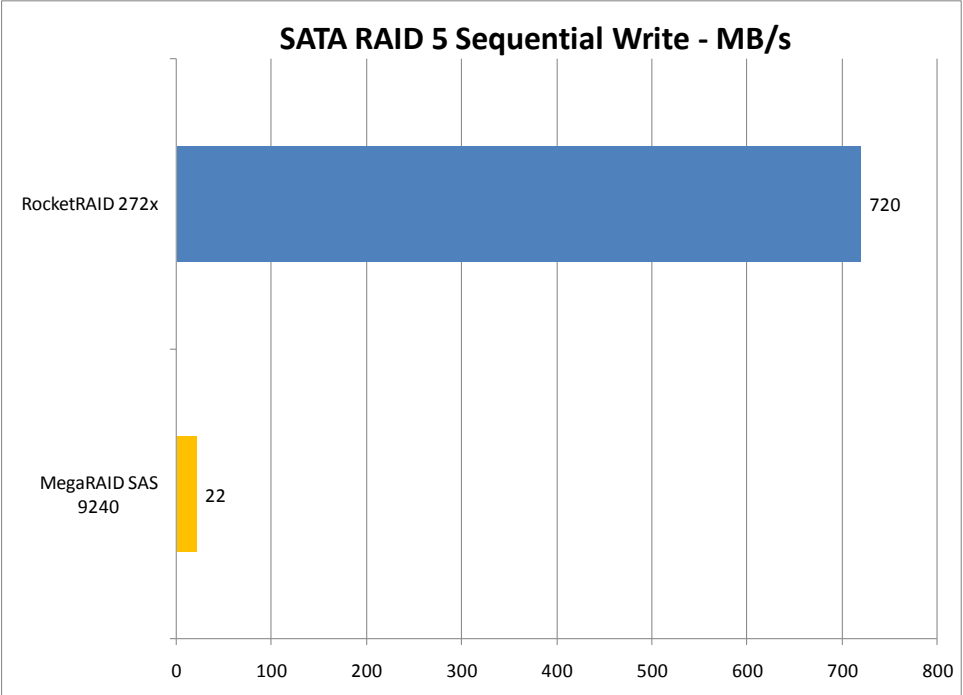
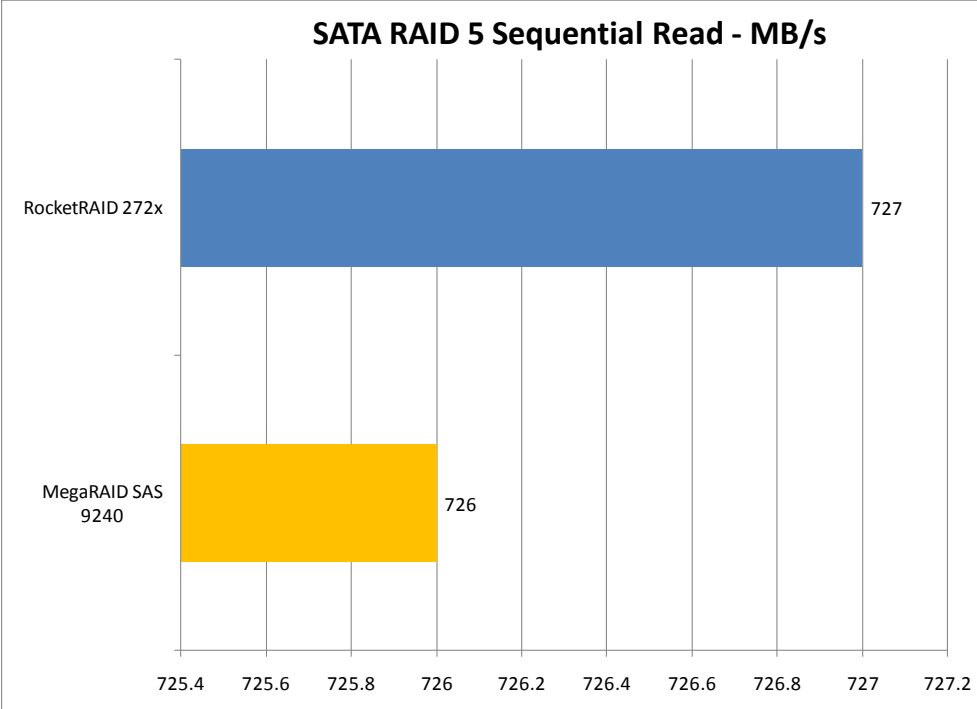
The purpose of this benchmark is to compare the HighPoint RocketRAID 272x SAS 6Gb/s Entry Level SAS RAID controller the LSI MegaRAID SAS 9240 and the LSI-2008 6Gb/s SAS chipset.

The RocketRAID 272x series are the industry's best in class SAS 6Gb/s RAID 5 controllers with 4-8 ports and with internal, external and hybrid connectivity. The LSI MegaRAID SAS 9240 series are the entry level 6Gb/s SAS controller and the LSI-2008 6Gb/s SAS chipset embedded onto the Supermicro X8DT6 motherboard.

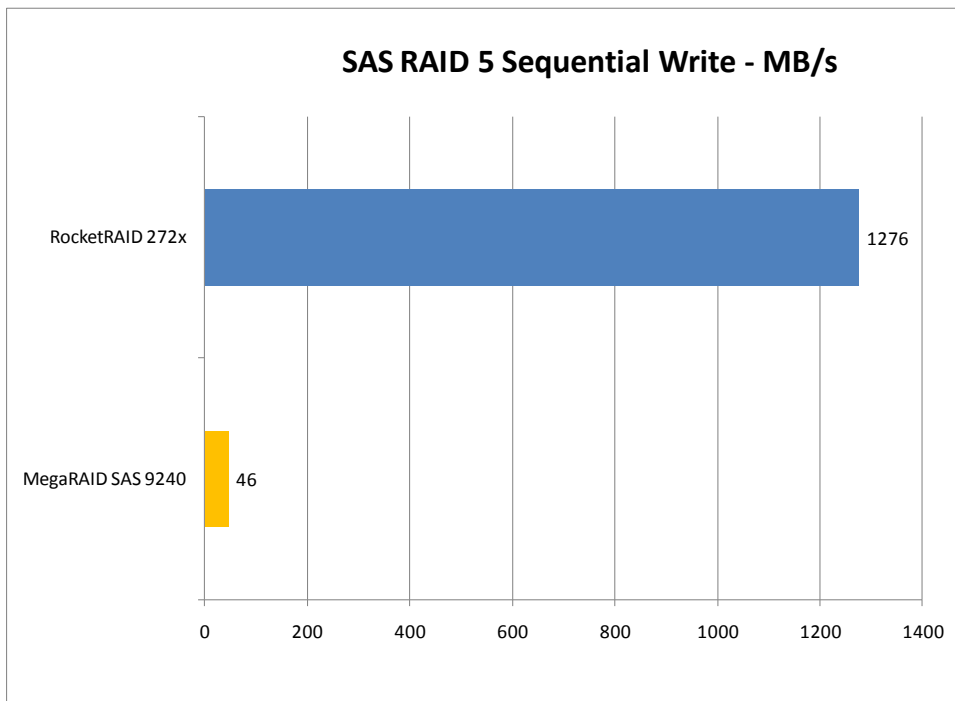
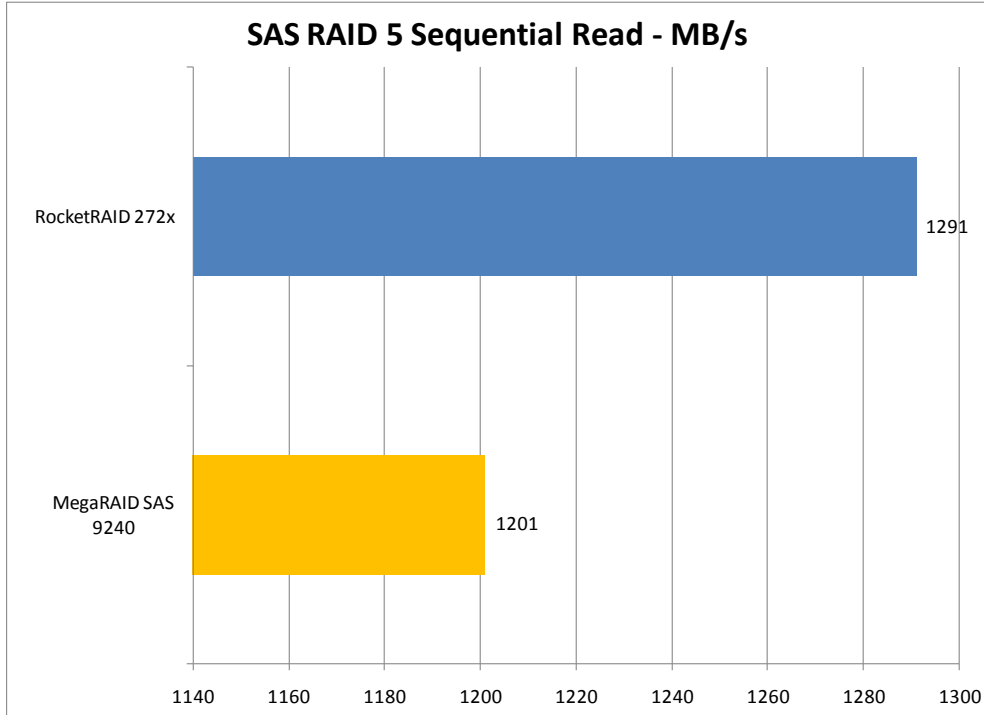
This benchmark will examine the RAID 5 performance by measuring 100% streaming reads and writes in large contiguous request. Streaming reads and writes are defined as contiguous read or write requests made to the disk(s) simulating media applications such as video or audio.

The result show that the RocketRAID 272x series outperforms the LSI MegaRAID SAS 9240 and LSI-2008 SAS 6Gb/s Chipset in RAID 5 sequential write performance by an average of **95%**.

8 SATA RAID 5 Results

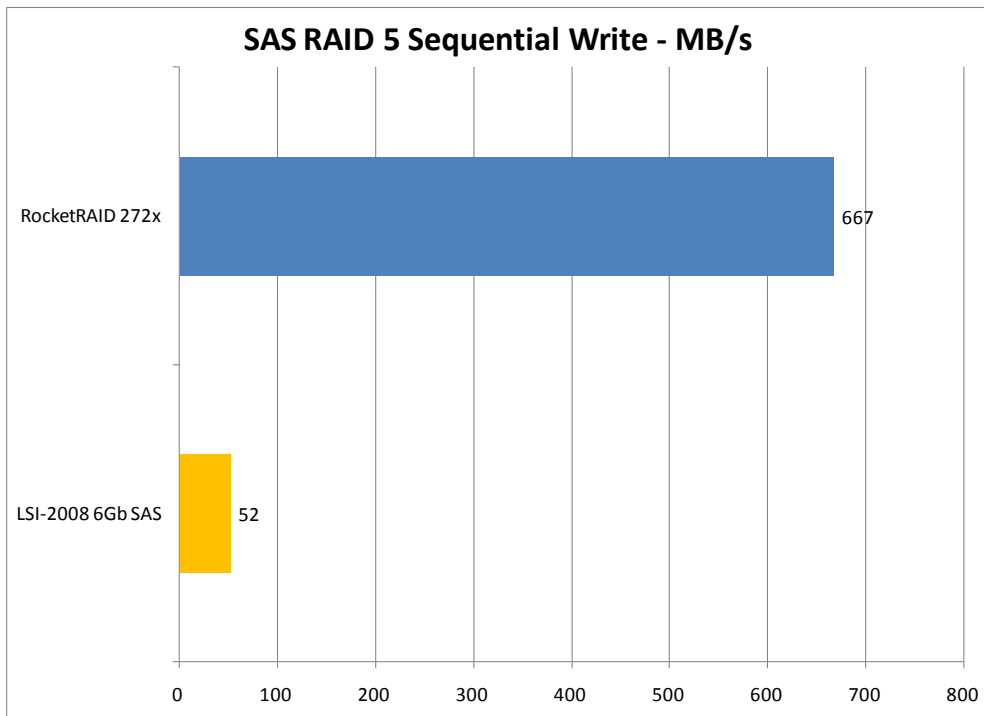
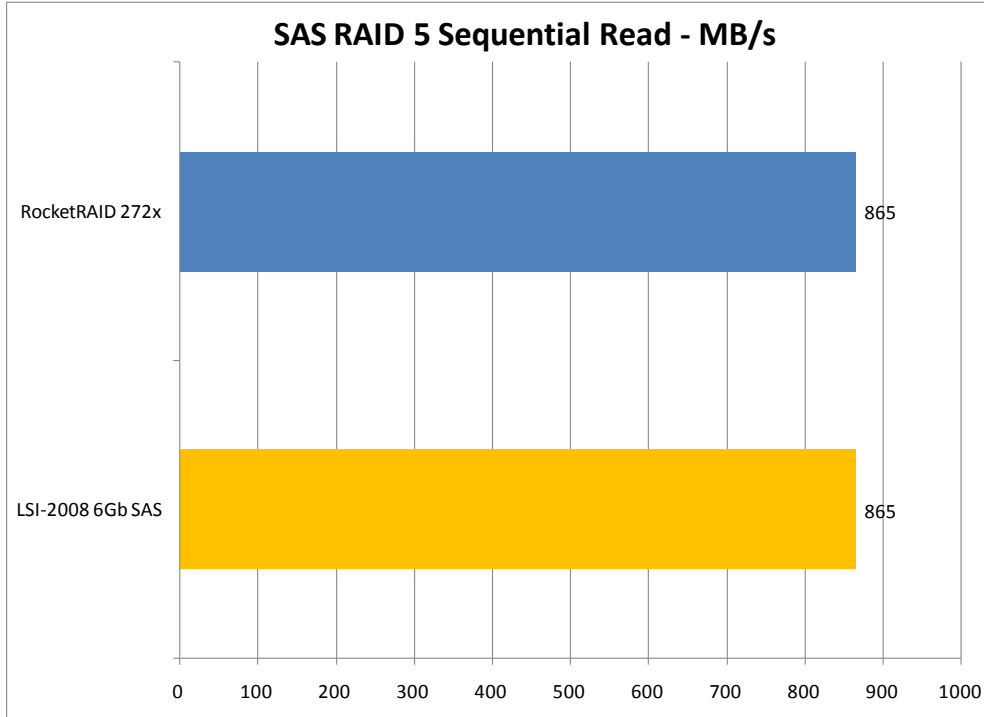


8 SAS RAID 5 Results



Note: Test System (1) was utilized to obtain the RAID 5 benchmark results. This is a comparison of the LSI MegaRAID SAS 9420 controller and the RocketRAID 272x. The RocketRAID 272x RAID 5 write performance outperforms the LSI MegaRAID SAS 9240 controller by **95%**

8 SAS RAID 5 Results



Note: Test System (2) was utilized to obtain the RAID 5 benchmark results. This is a comparison of the Supermicro X8DT6 with LSI-2008 6Gb/s SAS Controller and the RocketRAID 272x series controller. The RocketRAID 272x series RAID 5 write outperforms the LSI -2008 6Gb/s SAS Controller by **92%**.

Test System (1)

Supermicro X8SAX, Intel X58 Express Chipset, i7@2.66GHz, 4GB DDR3-1333Mhz
Microsoft Server 2003 Enterprise Edition 32-bit SP1
SATA: 7200RPM 2TB WD RE4 WD2003FYYS (8)
SAS: 15K RPM Seagate ST3600057SS (8)

Host Adapter Settings

RAID Controller	Drivers	Firmware	Utility
RocketRAID 2720	V1.0.9.1229	V1.0	HighPoint RAID Management web GUI v1.5.3
MegaRAID SAS 9240-8i	V4.24.0.32	V4.14.1	Mega RAID Storage Manager 6.90-05

Test System (2)

Supermicro X8DT6, Intel 5220 Chipset, Xeon E5504@2.0GHz, 1GB DDR3
Microsoft Server 2003 Enterprise Edition 32-bit SP1
SAS: 15K Fujitsu MBD214RC 147GB (8)
AOC-SAS2-RAID 5 Key

Host Adapter Settings

RAID Controller	Drivers	Firmware	Utility
RocketRAID 2720	V1.0.9.1229	V1.0	HighPoint RAID Management web GUI v1.5.3
LSI-2008 6Gb/s SAS	V4.24.0.32	V4.14.1	Mega RAID Storage Manager 6.90-05

Testing Utility

IOmeter 2006.7.27
Sequential Read 2MB
Sequential Write 2MB