

ARC 1680 V.S Adaptec 5805 V.S LSI-8888ELP

Streaming Write /Read Performance Comparison

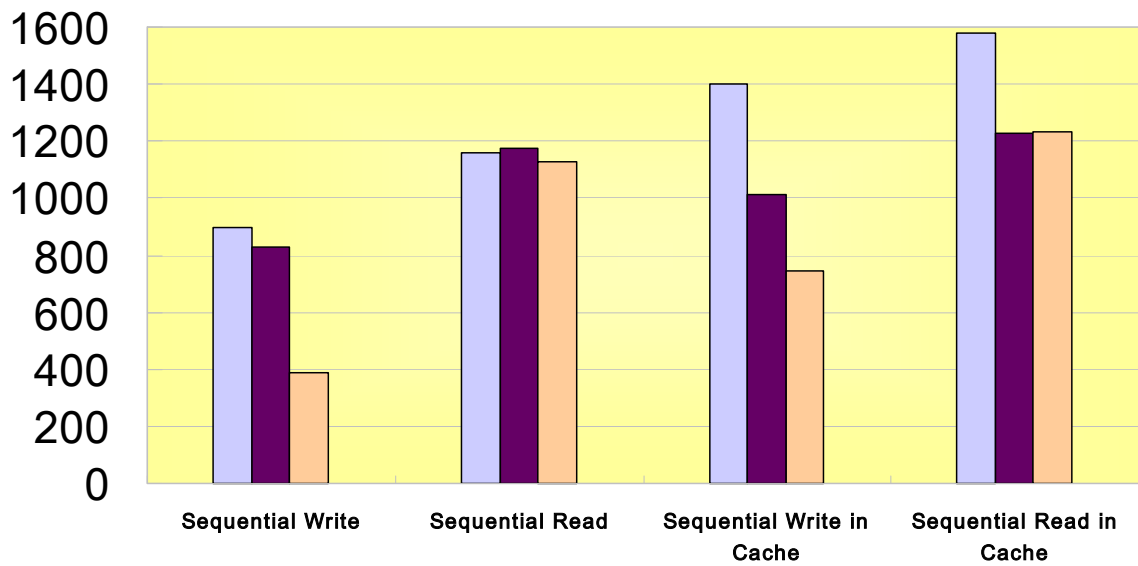
Raid 6



ARC1680 V.S Adaptec 5805 V.S LSI-8888ELP RAID 6 SAS

IOMeter 2006.07.27 *Streaming Write, Streaming Read*

Benchmark Pattern, MBs transfer per second at 256 queue depth



	Sequential Write	Sequential Read	Sequential Write in Cache	Sequential Read in Cache
Areca 1680 stripe64	896.00	1157.06	1402.26	1580.57
Adaptec 5805 stripe256	827.95	1174.58	1013.78	1225.85
LSI-8888ELP stripe64	389.07	1127.96	744.16	1231.42

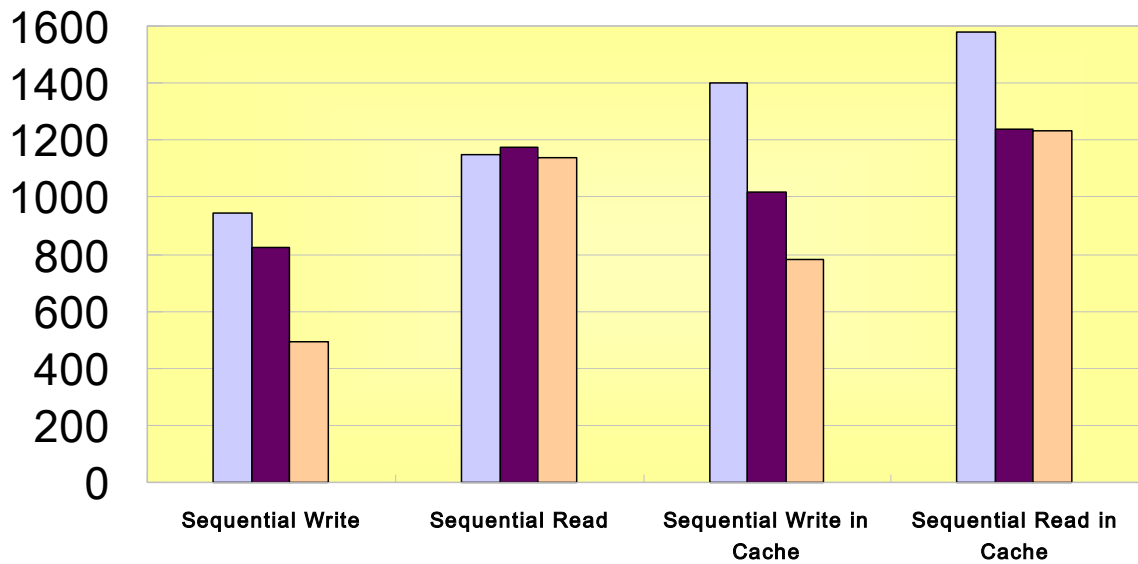
Raid 5



ARC1680 V.S Adaptec 5805 V.S LSI-8888ELP RAID 5 SAS

IOMeter 2006.07.27 *Streaming Write, Streaming Read*

Benchmark Pattern, MBs transfer per second at 256 queue depth



	Sequential Write	Sequential Read	Sequential Write in Cache	Sequential Read in Cache
Areca 1680 stripe64	942.20	1151.29	1402.04	1581.35
Adaptec 5805 stripe256	822.91	1173.67	1018.38	1239.91
LSI-8888ELP stripe64	490.97	1136.37	779.37	1232.83

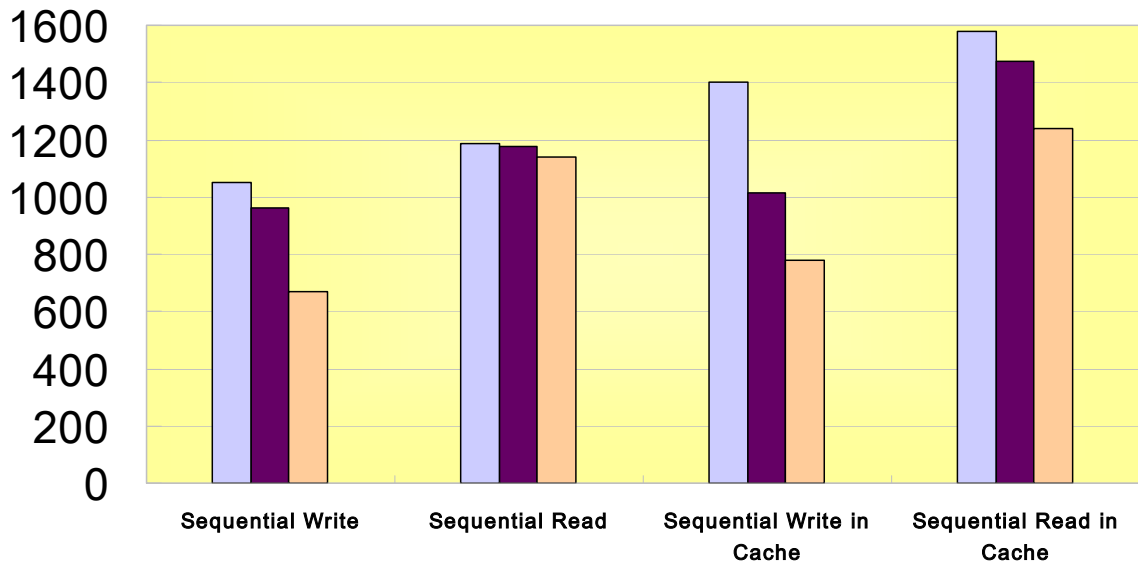
Raid 0



ARC1680 V.S Adaptec 5805 V.S LSI-8888ELP RAID 0 SAS

IOMeter 2006.07.27 *Streaming Write, Streaming Read*

Benchmark Pattern, MBs transfer per second at 256 queue depth



	Sequential Write	Sequential Read	Sequential Write in Cache	Sequential Read in Cache
Areca 1680 stripe64	1051.16	1189.44	1402.13	1581.10
Adaptec 5805 stripe256	962.58	1174.33	1012.82	1475.63
LSI-8888ELP stripe64	669.58	1137.63	779.90	1238.58

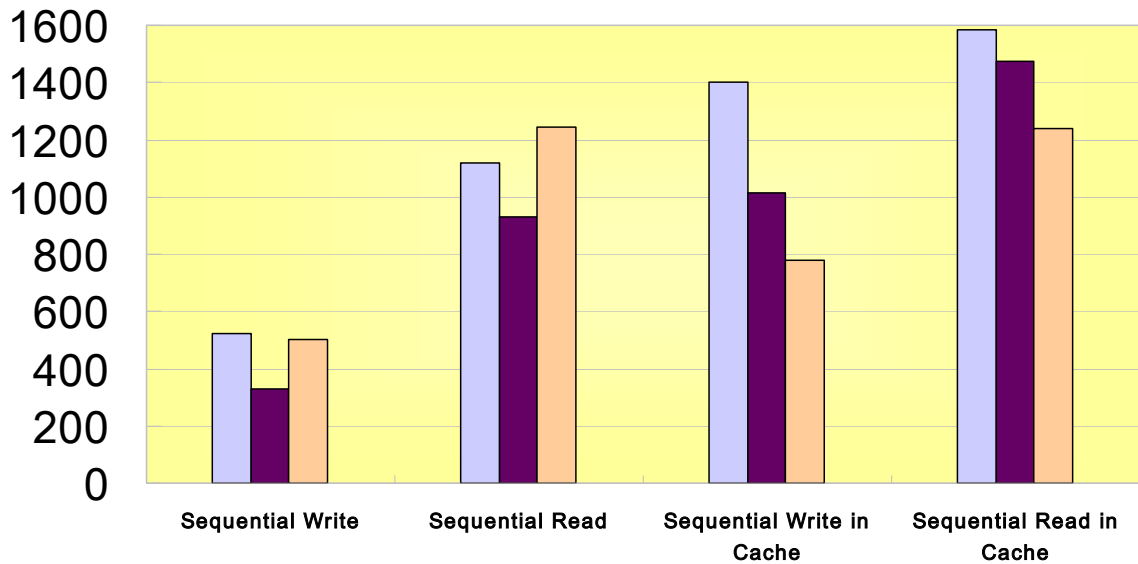
Raid 1



ARC1680 V.S Adaptec 5805 V.S LSI-8888ELP RAID 1 SAS

IOMeter 2006.07.27 *Streaming Write, Streaming Read*

Benchmark Pattern, MBs transfer per second at 256 queue depth



	Sequential Write	Sequential Read	Sequential Write in Cache	Sequential Read in Cache
Areca 1680 stripe64	524.84	1120.37	1402.57	1582.31
Adaptec 5805 stripe256	328.11	929.32	1014.40	1476.21
LSI-8888ELP stripe64	500.58	1245.22	779.66	1241.02

Setup Information

Areca test setup

Test Environment			
Platform	Intel SE7525GP2		
Processor(s)	XEON 2.8 GHz X2		
RAM	2GB (DDR-266 ECC,Reg.) x 2		
BIOS	SE7525GP20.86B.P.11.00.0043		
BIOS Build Date	2003/4/6		
Test Hard Driver x16	Seagate,ST3500620SS,7200RPM,500GB SAS x16		
I/O Performance	IOMeter 2006.07.27		
	Streaming Write		
	Streaming Read		
OS	Microsoft Server 2003 Standard Edition Service Pack 1		
Areca System Information			
Model	ARC1680	Test Date	2008.7.11
BIOS	v1.21b 2008.3.11	F/W	v1.45 2008.4.29
SAS Firmware	4.1.13.2	BOOT	v1.45 2008.4.29
Chassis Information			
Manufactory	T-win		
Model	RSC-3EC2-2-SA1D-2 (D=Dual Expander) 16bays		
Expander	Vitesse VSC7153 24-PHY SAS 3.0		

Adaptec test setup

Test Environment			
Platform	Intel SE7525GP2		
Processor(s)	XEON 2.8 GHz X2		
RAM	2GB (DDR-266 ECC,Reg.) x 2		
BIOS	SE7525GP20.86B.P.11.00.0043		
BIOS Build Date	2003/4/6		
Test Hard Driver x16	Seagate,ST3500620SS,7200RPM,500GB SAS x16		
I/O Performance	IOMeter 2006.07.27		
	Streaming Write		
	Streaming Read		
OS	Microsoft Server 2003 Standard Edition Service Pack 1		
Adaptec System Information			
Model	Adaptec 5805	Test Date	2008.7.11
BOOT ROM	5.2-0(15728)	F/W	5.2-0(15728)
Device Driver	5.2-0(15728)	Storage Manager	V5.2-0.15728
Chassis Information			
Manufactory	T-win		
Model	RSC-3EC2-2-SA1D-2 (D=Dual Expander) 16bays		
Expander	Vitesse VSC7153 24-PHY SAS 3.0		

LSI test setup

Test Environment			
Platform	Intel SE7525GP2		
Processor(s)	XEON 2.8 GHz X2		
RAM	2GB (DDR-266 ECC,Reg.) x 2		
BIOS	SE7525GP20.86B.P.11.00.0043		
BIOS Build Date	2003/4/6		
Test Hard Driver x16	Seagate,ST3500620SS,7200RPM,500GB SAS x16		
I/O Performance	IOMeter 2006.07.27		
	Streaming Write		
	Streaming Read		
OS	Microsoft Server 2003 Standard Edition Service Pack 1		
LSI System Information			
Model	LSI-8888ELP	Test Date	2008.7.11
BIOS	NT16	F/W	1.12.62-0364
Firmware Package	8.0.1-0023	MegaRAID Storage Manager	2.64-00
LSI Setup Information			
Read Policy	Always Read ahead	IO Policy	Direct IO
Default Write Policy	Write back	Disk Cache Policy	Enable
Chassis Information			
Manufactory	T-win		
Model	RSC-3EC2-2-SA1D-2 (D=Dual Expander) 16bays		
Expander	Vitesse VSC7153 24-PHY SAS 3.0		