

Database pattern (Intel/StorageReview.com)								
Size	% of size	% reads	% random	delay	burst	align	reply	
8192	100	67	100	0	1	0	0	

Fileserver pattern (Intel)								
Size	% of size	% reads	% random	delay	burst	align	reply	
512	10	80	100	0	1	0	0	
1024	5	80	100	0	1	0	0	
2048	5	80	100	0	1	0	0	
4096	60	80	100	0	1	0	0	
8192	2	80	100	0	1	0	0	
16384	4	80	100	0	1	0	0	
32768	4	80	100	0	1	0	0	
65536	10	80	100	0	1	0	0	

Workstation pattern (StorageReview.com)								
Size	% of size	% reads	% random	delay	burst	align	reply	
8192	100	80	80	0	1	0	0	

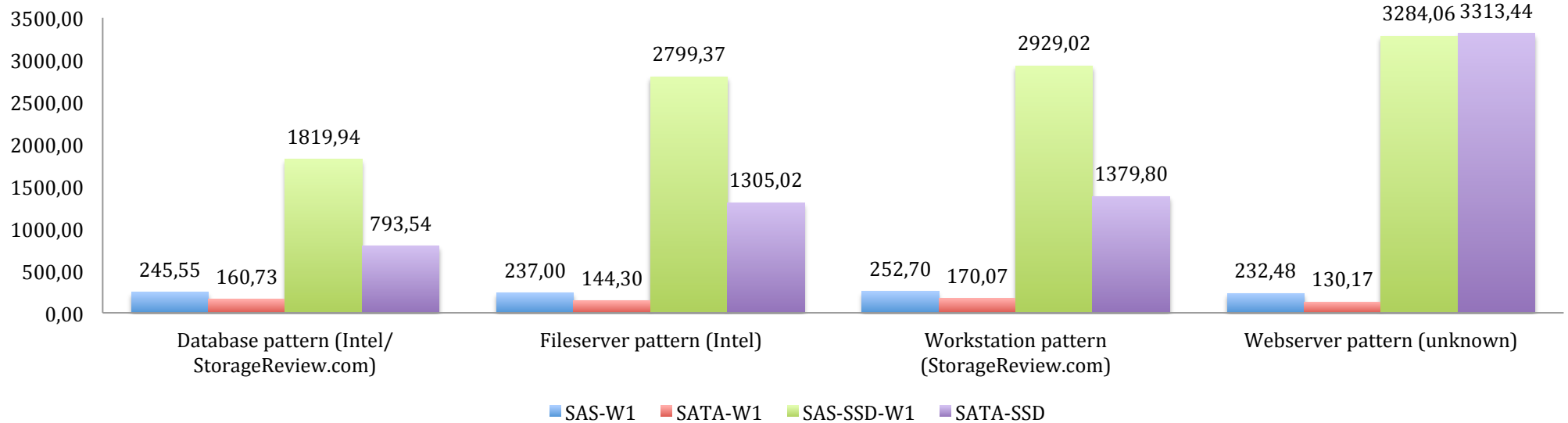
Webserver pattern (unknown)								
Size	% of size	% reads	% random	delay	burst	align	reply	
512	22	100	100	0	1	0	0	
1024	15	100	100	0	1	0	0	
2048	8	100	100	0	1	0	0	
4096	23	100	100	0	1	0	0	
8192	15	100	100	0	1	0	0	
16384	2	100	100	0	1	0	0	
32768	6	100	100	0	1	0	0	
66560	7	100	100	0	1	0	0	
131072	1	100	100	0	1	0	0	
524288	1	100	100	0	1	0	0	

Model.....	Adaptec 5805Z
Installed memory size.....	512 MB
Boot ROM.....	5.2-0 (18252)
Firmware.....	5.2-0 (18252)
Device driver.....	5.2-0 (18276)
Controller status.....	Optimal
ZMM status.....	Optimal
Background consistency check....	Disabled
Copy back.....	Disabled
Controller temperature.....	Normal (63C / 145F)
Default logical drive task priority	High
Performance mode.....	Dynamic
Number of logical devices.....	4
Number of hot-spare drives.....	0
Number of ready drives.....	6
Number of drive(s) assigned to MaxIQ cache	0
Maximum drives allowed for MaxIQ cache	8
MaxIQ Read Cache Pool Size.....	0 GB
NCQ status.....	Enabled

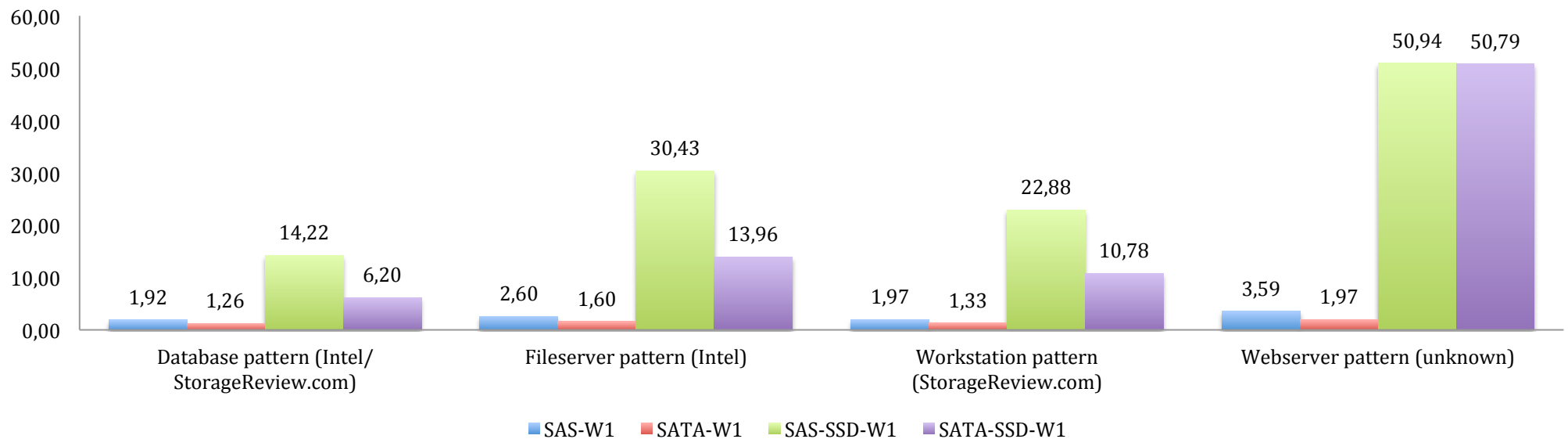
Disks:	
Vendor - Hitachi	
Model - HDS721010CLA332	
Firmware level - P4OA3MA	
Vendor - HITACHI	
Model - HUS153014VLS300	
Firmware level - A410	
Vendor - INTEL	
Model - SSDSA2SH032G1GN	
Firmware level - 045C8860	

Logical device.....0 Logical device name.....SATA RAID level.....1 Data space.....29,99 GB Mirror space.....29,99 GB Date created.....02/11/2011 Interface type.....Serial ATA State.....Optimal Read-cache mode.....Enabled Preferred MaxIQ cache setting...Disabled Actual MaxIQ cache settingDisabled Write-cache mode.....Enabled (write-back) Write-cache setting.....Enabled (write-back) when protected by battery/ZMM Partitioned.....No Protected by hot spare.....No Bootable.....Yes Bad stripes.....No Power Status.....Disabled Power State.....Active Reduce RPM timer.....Never Power off timer.....Never	Logical device.....1 Logical device name.....SAS RAID level.....1 Data space.....29,99 GB Mirror space.....29,99 GB Date created.....02/11/2011 Interface type.....Serial attached SCSI State.....Optimal Read-cache mode.....Enabled Preferred MaxIQ cache setting...Disabled Actual MaxIQ cache settingDisabled Write-cache mode.....Enabled (write-back) Write-cache setting.....Enabled (write-back) when protected by battery/ZMM Partitioned.....No Protected by hot spare.....No Bootable.....No Bad stripes.....No Power Status.....Disabled Power State.....Active Reduce RPM timer.....Never Power off timer.....Never	Logical device.....2 Logical device name.....SSD/SAS RAID level.....1 Data space.....29,678 GB Mirror space.....29,678 GB Date created.....02/11/2011 Interface type.....SAS/SATA State.....Optimal Read-cache mode.....Enabled Preferred MaxIQ cache setting...Disabled Actual MaxIQ cache settingDisabled Write-cache mode.....Enabled (write-back) Write-cache setting.....Enabled (write-back) when protected by battery/ZMM Partitioned.....No Protected by hot spare.....No Bootable.....No Bad stripes.....No Power Status.....Disabled Power State.....Active Reduce RPM timer.....Never Power off timer.....Never	Logical device.....3 Logical device name.....SSD/SATA RAID level.....1 Data space.....29,678 GB Mirror space.....29,678 GB Date created.....02/11/2011 Interface type.....Serial ATA State.....Optimal Read-cache mode.....Enabled Preferred MaxIQ cache setting...Disabled Actual MaxIQ cache settingDisabled Write-cache mode.....Enabled (write-back) Write-cache setting.....Enabled (write-back) when protected by battery/ZMM Partitioned.....No Protected by hot spare.....No Bootable.....No Bad stripes.....No Power Status.....Disabled Power State.....Active Reduce RPM timer.....Never
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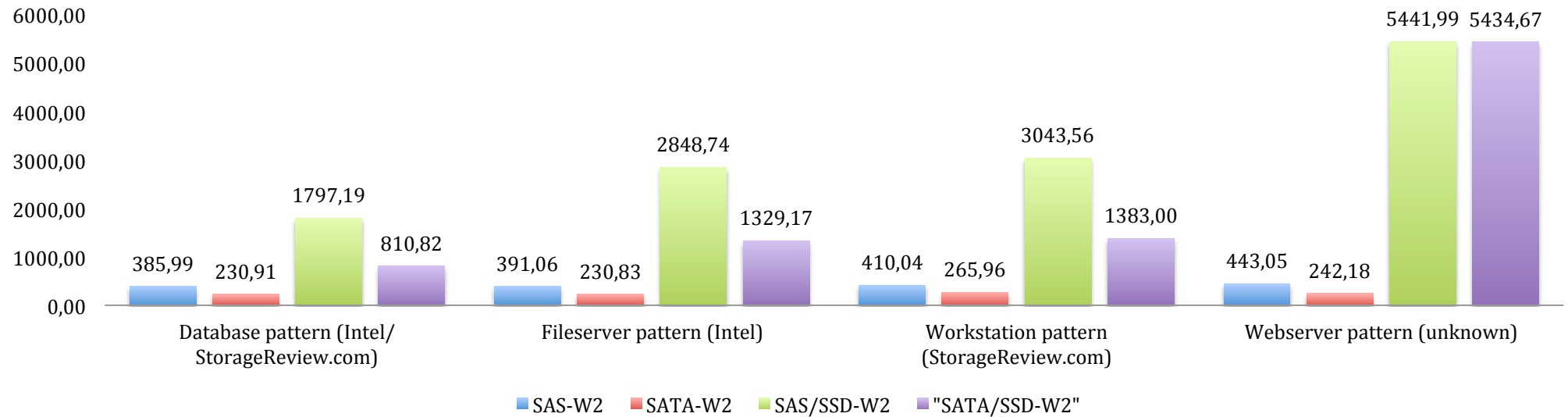
Adaptec HPHA RAID 1 Worker 1 (iops)



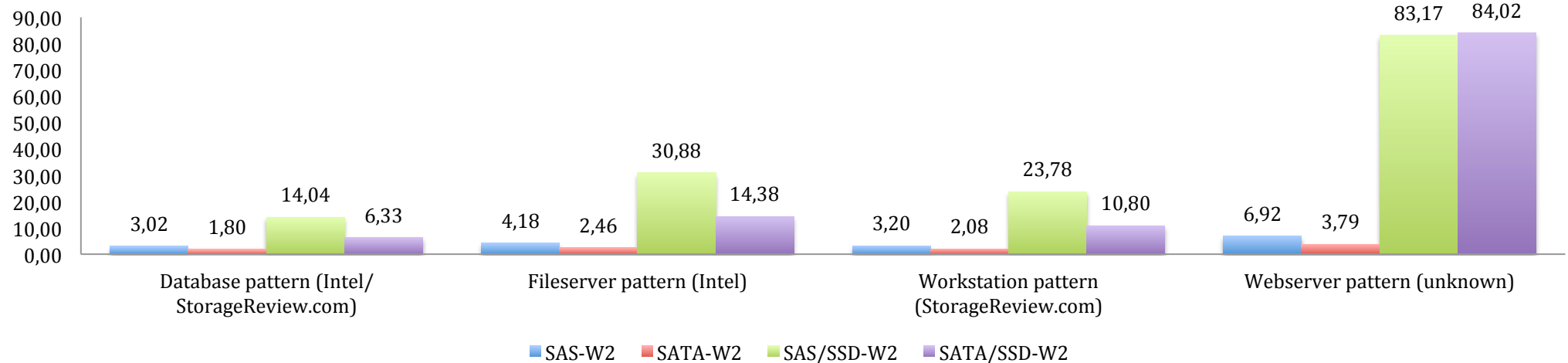
Adaptec HPHA RAID 1 Worker 1 (MBps)



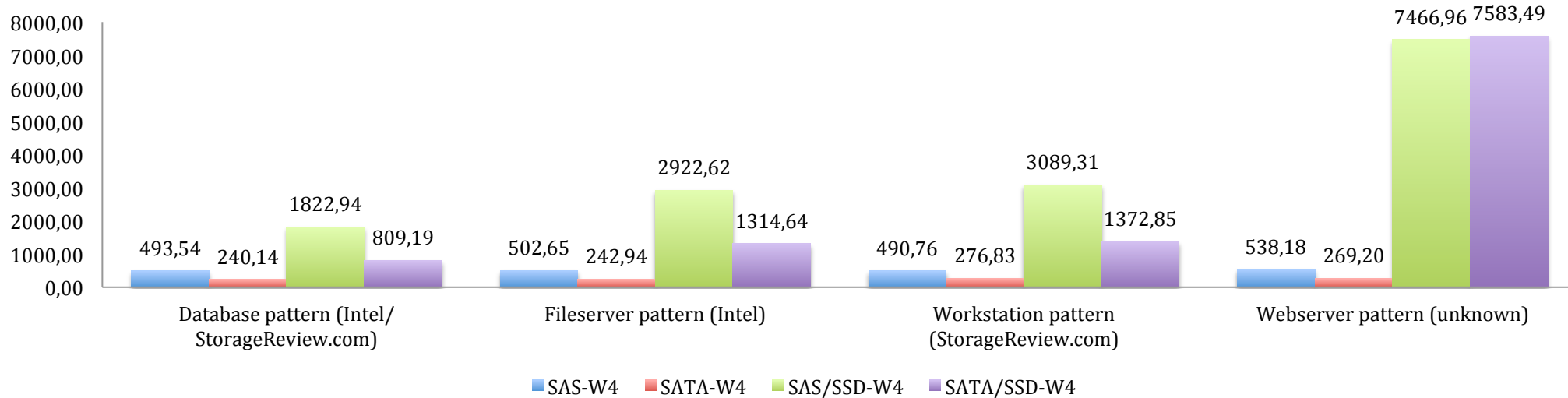
Adaptec HPHA RAID1 Worker 2 (iops)



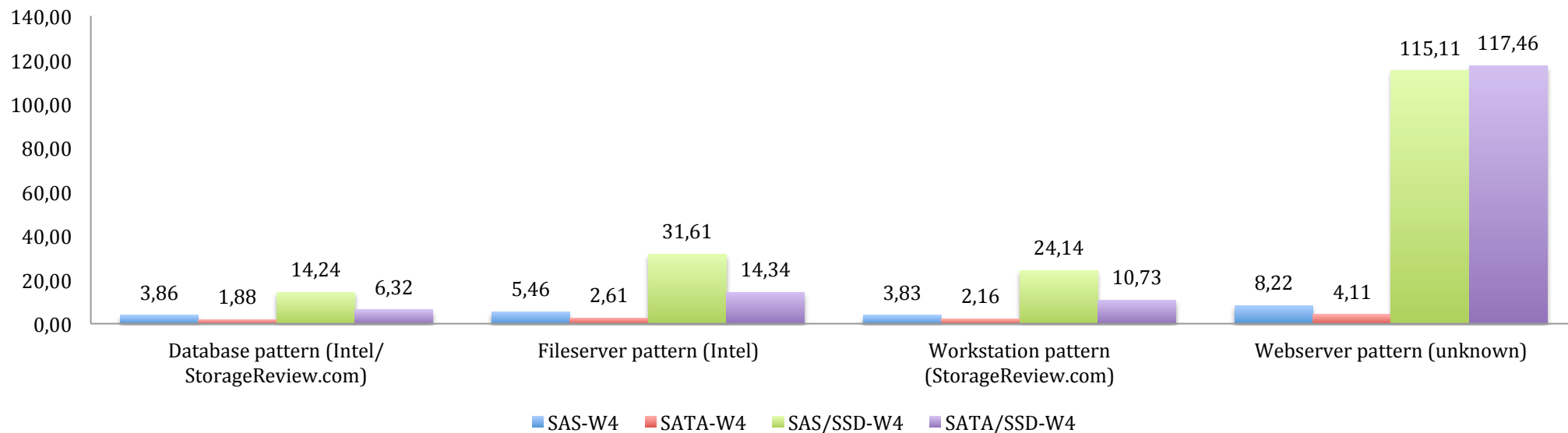
Adaptec HPHA RAID1 Worker 2 (MBps)



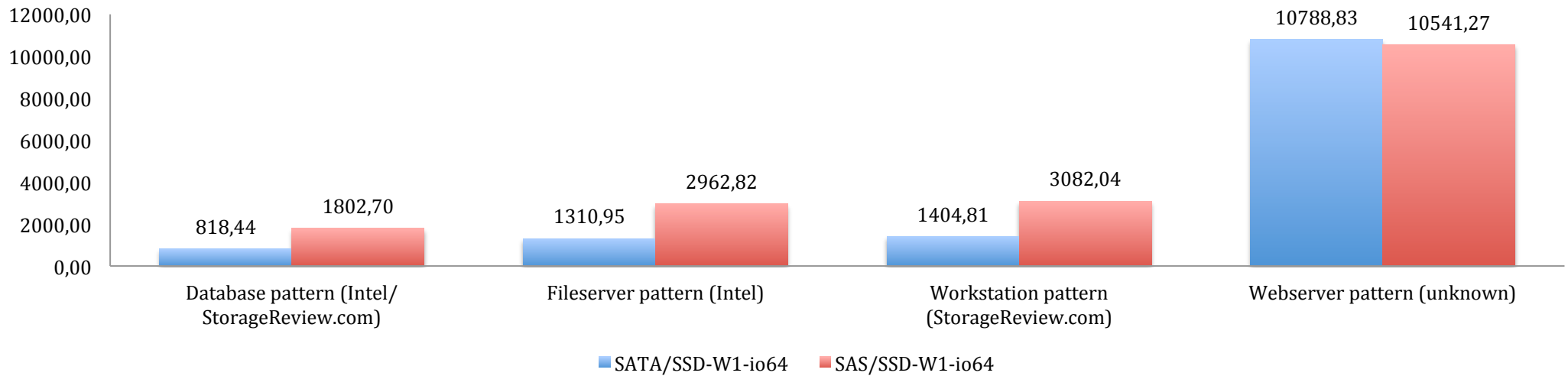
Adaptec HPHA RIAID 1 Worker 4 (iops)



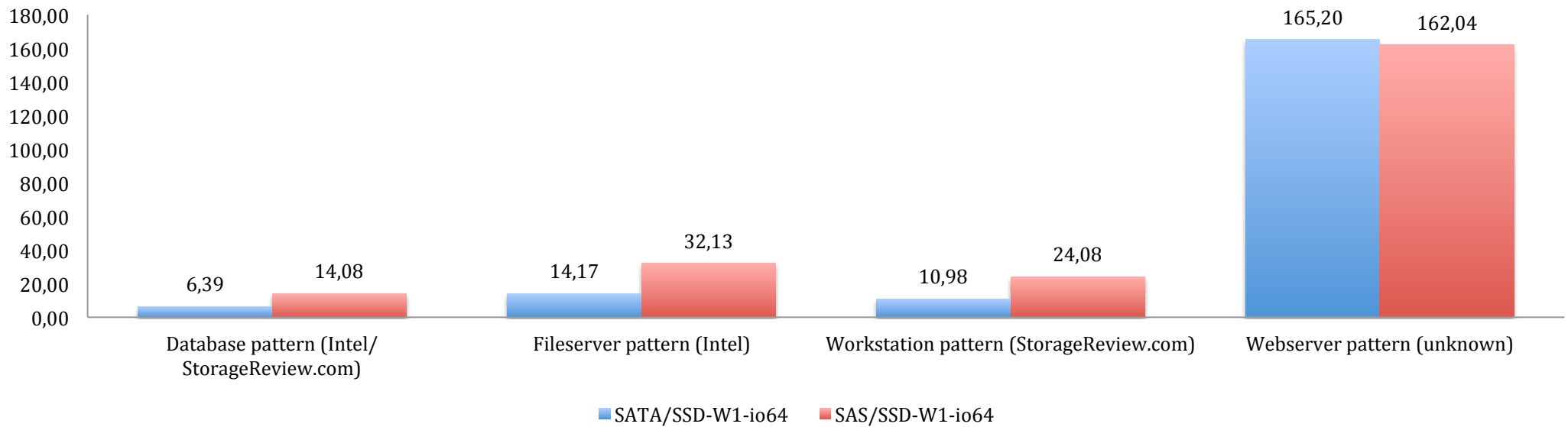
Adaptec HPHA RAID1 Worker 4 (MBps)



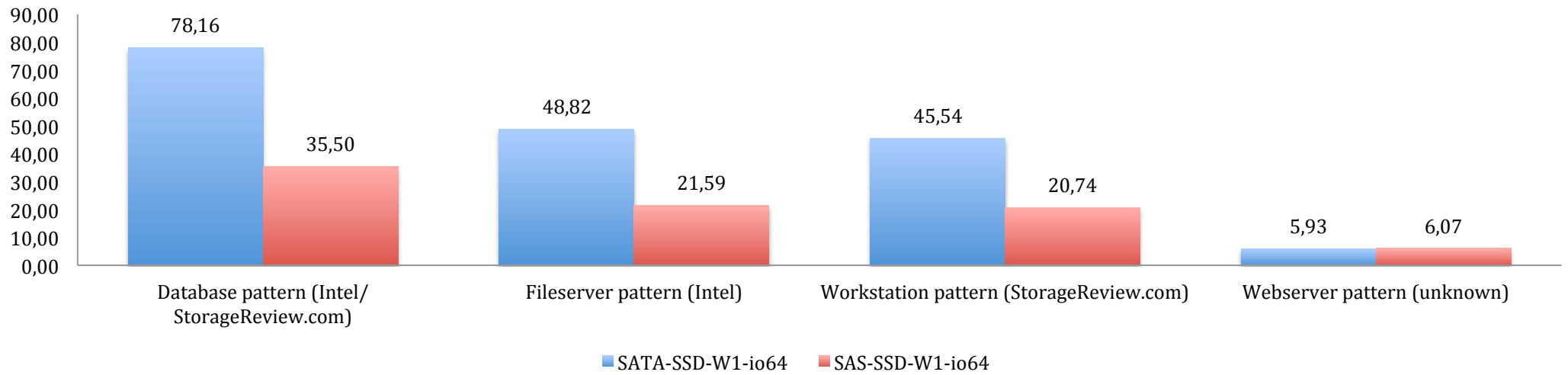
Adaptec HPHA RAID 1 Worker 1 Outstanding I/Os 64 (iops)



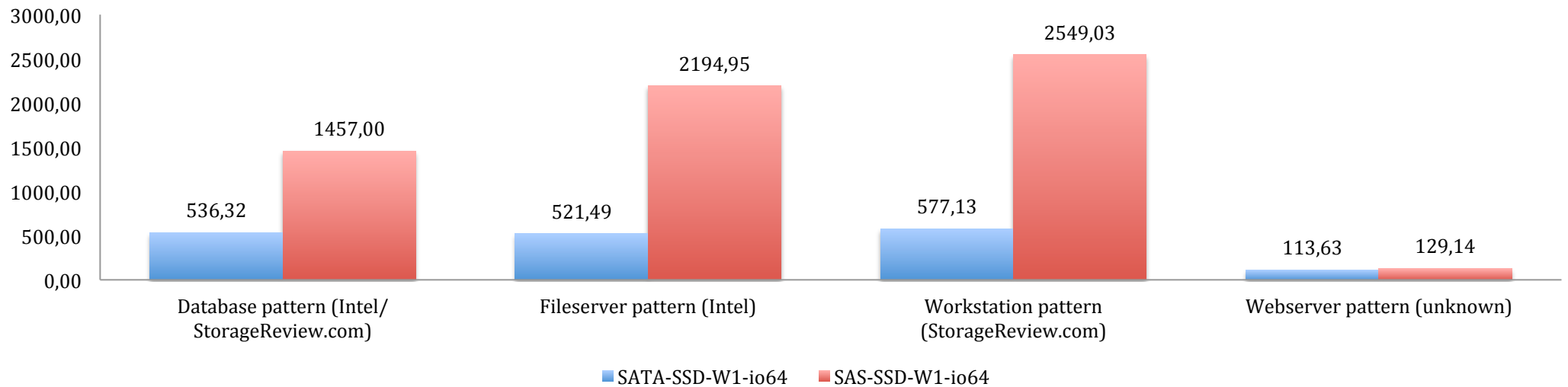
Adaptec HPHA RAID 1 Worker 1 Outstanding I/Os 64 (MBps)



Average Response Time

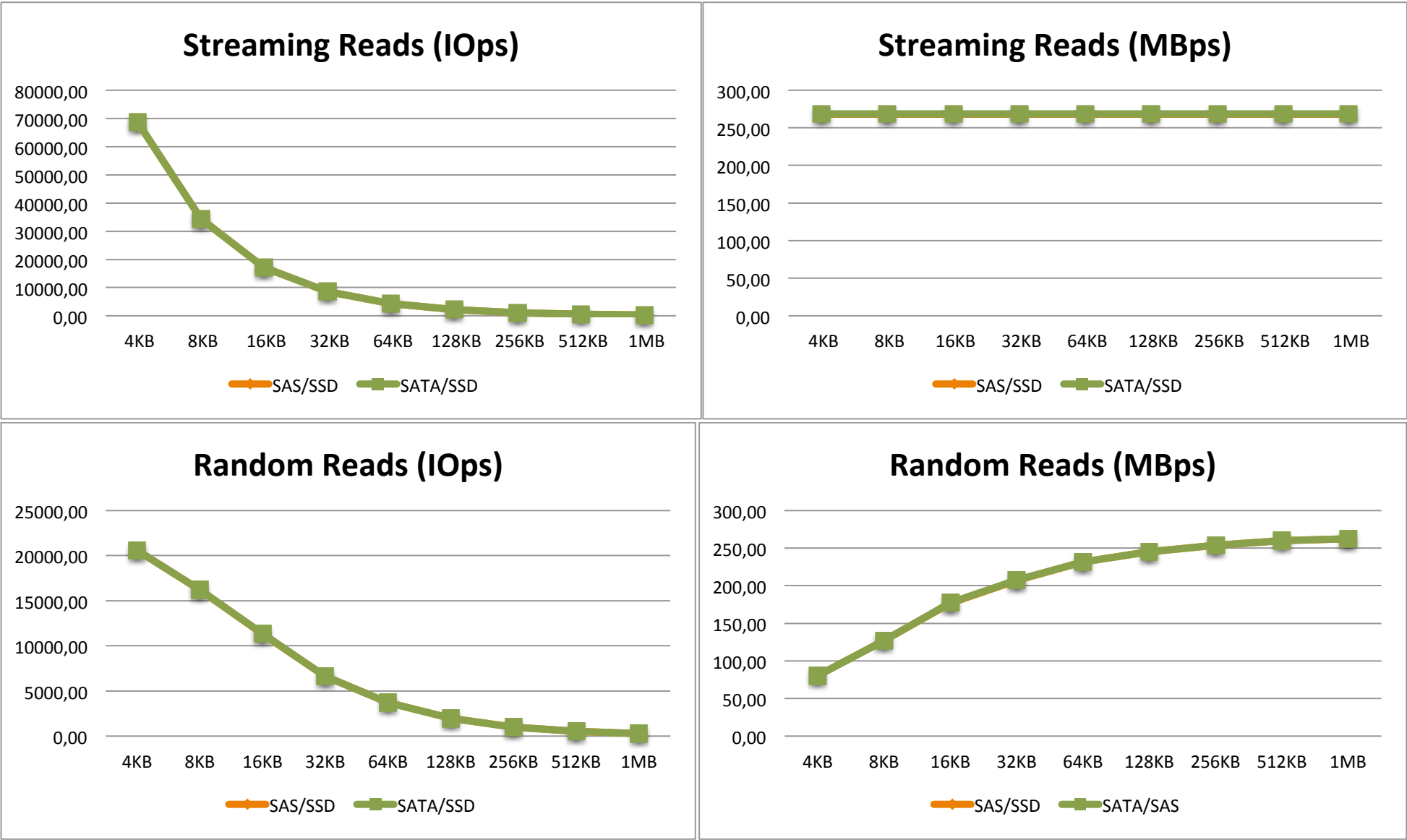


Maximum Response Time



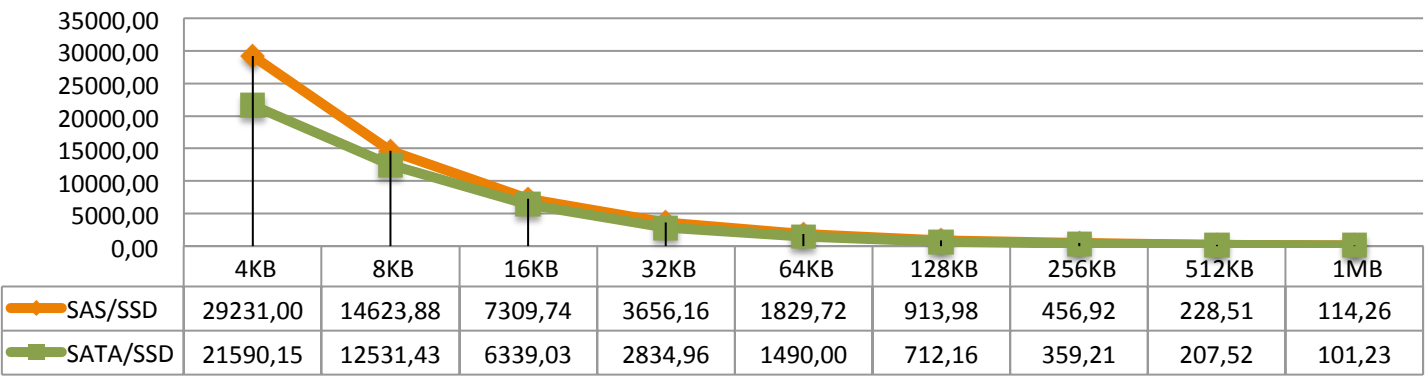
Для большей ясности сравниваем только SAS/SSD и SATA/SSD.

Последовательное и произвольное чтение одинаковое, т.к. читает только с SSD.

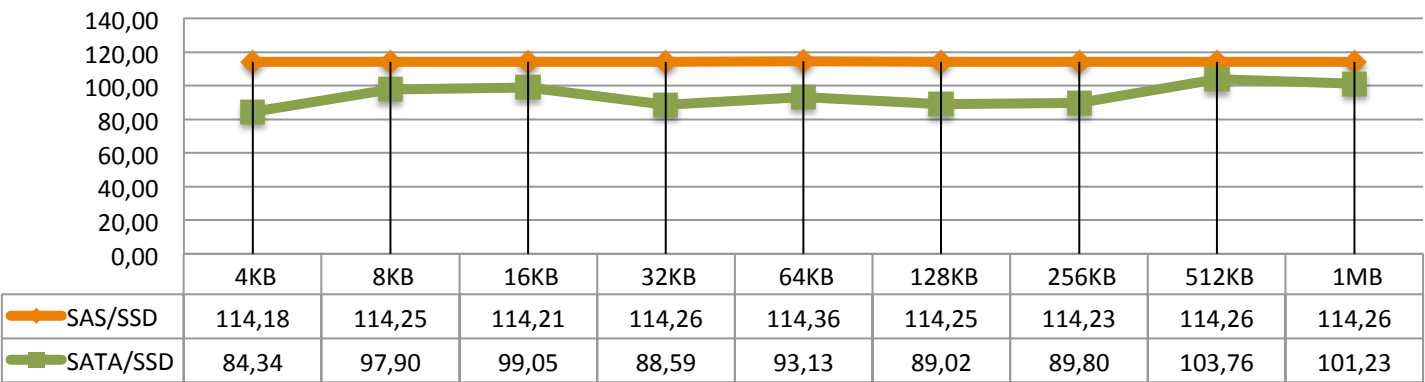


Запись ограничивается скоростью самого медленного носителя.

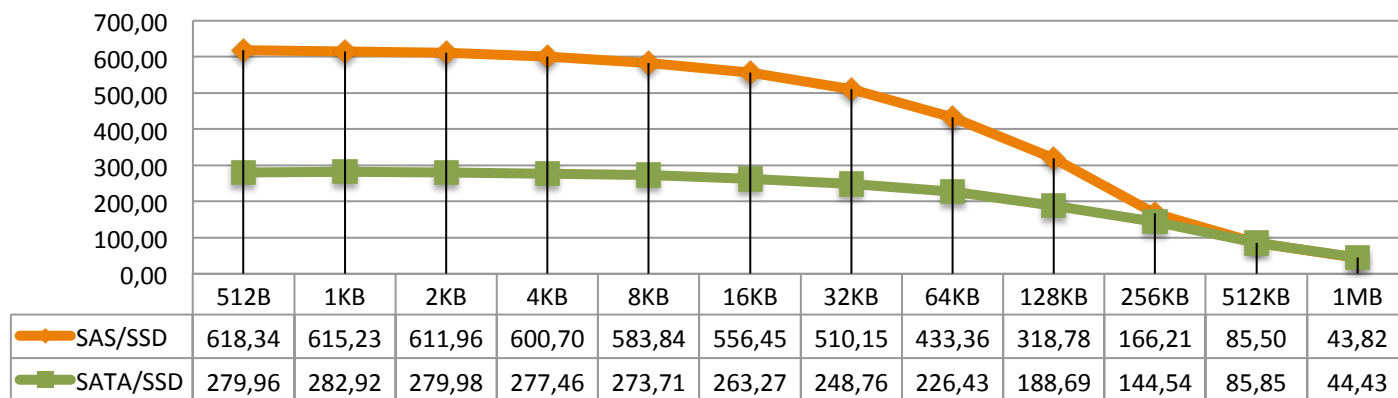
Streaming Write (IOps)



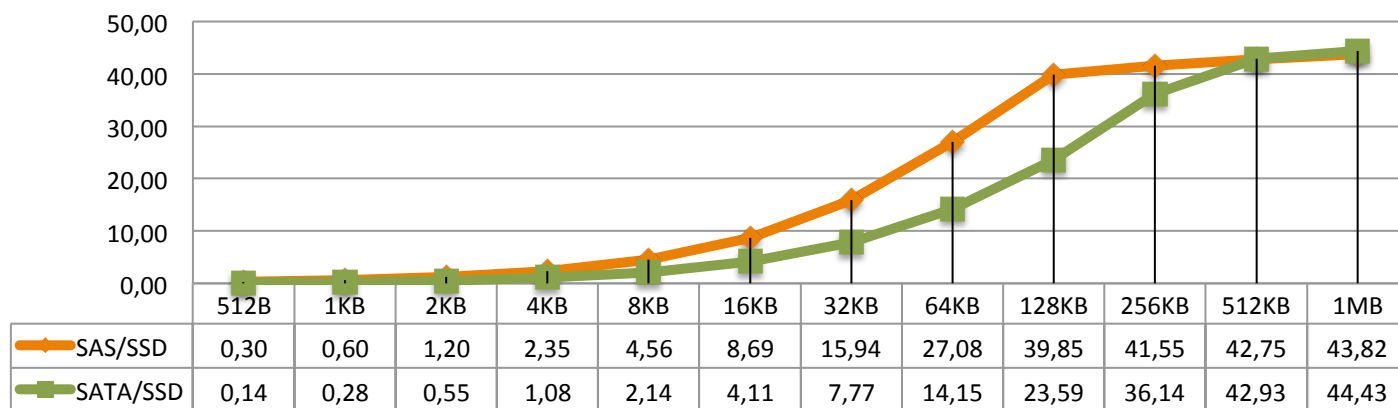
Streaming Write (MBps)



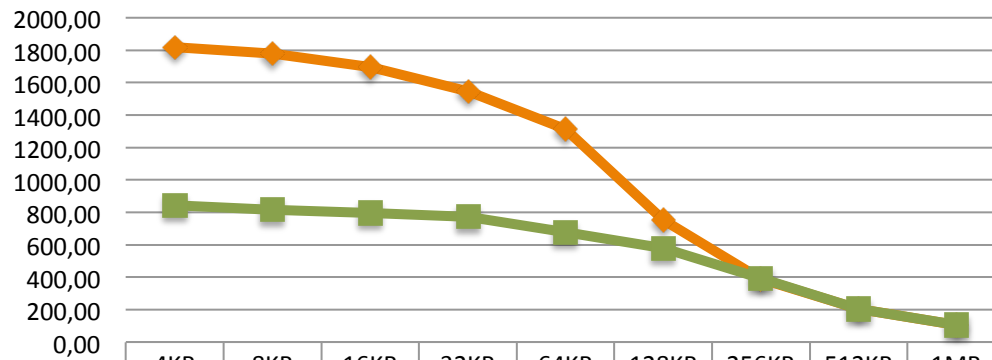
Random Writes (IOps)



Random Writes (MBps)

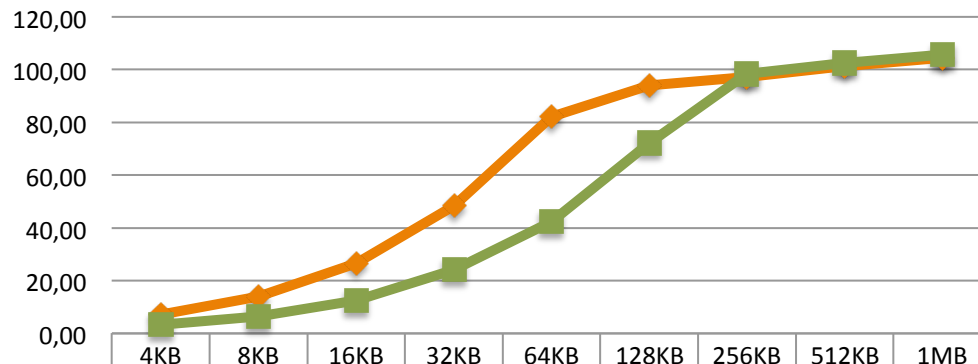


Random 100% Read 67% Write 33% (IOps)



	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB	1MB
SAS/SSD	1819,88	1779,64	1696,27	1546,13	1313,57	751,81	388,26	202,75	104,49
SATA/SSD	841,59	817,46	794,11	770,49	677,09	577,66	393,91	205,18	105,59

Random 100% Read 67% Write 33% (MBps)



	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB	1MB
SAS/SSD	7,11	13,90	26,50	48,32	82,10	93,98	97,07	101,37	104,49
SATA/SSD	3,29	6,39	12,41	24,08	42,32	72,21	98,48	102,59	105,59