



## **mdadm-raid0-xfs-4mb-randomwrite**

Intel Core i5 650 testing with a MSI 2A9C v1.0 and AMD Radeon HD 5550/5570/5630/6510/6610/7570 2048MB on Fedora 25 via the Phoronix Test Suite.

## Test Systems:

### MDADM RAID0

Processor: Intel Core i5 650 @ 3.20GHz (4 Cores), Motherboard: MSI 2A9C v1.0, Chipset: Intel Core DRAM, Memory: 4096 MB + 2048 MB + 2048 MB + 2048 MB DDR3-1333MHz, Disk: 1000GB SAMSUNG HD103SJ + 1000GB Western Digital WD1002FAEX-0 + 500GB Western Digital WD5000AZRX-0 + 1000GB Elements 1078, Graphics: AMD Radeon HD 5550/5570/5630/6510/6610/7570 2048MB (157/200MHz), Audio: Realtek ALC888, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411 + Ralink RT3090 Wireless 802.11n 1T/1R

OS: Fedora 25, Kernel: 4.10.12-200.fc25.x86\_64 (x86\_64), Compiler: GCC 6.3.1 20161221, File-System: xfs, Screen Resolution: 1920x1080

### MDADM RAID1

Processor: Intel Core i5 650 @ 3.20GHz (4 Cores), Motherboard: MSI 2A9C v1.0, Chipset: Intel Core DRAM, Memory: 4096 MB + 2048 MB + 2048 MB + 2048 MB DDR3-1333MHz, Disk: 1000GB SAMSUNG HD103SJ + 1000GB Western Digital WD1002FAEX-0 + 500GB Western Digital WD5000AZRX-0 + 1000GB Elements 1078, Graphics: AMD Radeon HD 5550/5570/5630/6510/6610/7570 2048MB (157/200MHz), Audio: Realtek ALC888, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411 + Ralink RT3090 Wireless 802.11n 1T/1R

OS: Fedora 25, Kernel: 4.10.12-200.fc25.x86\_64 (x86\_64), Compiler: GCC 6.3.1 20161221, File-System: xfs, Screen Resolution: 1920x1080

### MDADM RAID5

Processor: Intel Core i5 650 @ 3.20GHz (4 Cores), Motherboard: MSI 2A9C v1.0, Chipset: Intel Core DRAM, Memory: 4096 MB + 2048 MB + 2048 MB + 2048 MB DDR3-1333MHz, Disk: 1000GB SAMSUNG HD103SJ + 1000GB Western Digital WD1002FAEX-0 + 500GB Western Digital WD5000AZRX-0 + 1000GB Elements 1078, Graphics: AMD Radeon HD 5550/5570/5630/6510/6610/7570 2048MB (157/200MHz), Audio: Realtek ALC888, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411 + Ralink RT3090 Wireless 802.11n 1T/1R

OS: Fedora 25, Kernel: 4.10.12-200.fc25.x86\_64 (x86\_64), Compiler: GCC 6.3.1 20161221, File-System: xfs, Screen Resolution: 1920x1080

### Stripe (RAID0)

Processor: Intel Core i5 650 @ 3.20GHz (4 Cores), Motherboard: MSI 2A9C v1.0, Chipset: Intel Core DRAM, Memory: 4096 MB + 2048 MB + 2048 MB + 2048 MB DDR3-1333MHz, Disk: 1000GB SAMSUNG HD103SJ + 1000GB Western Digital WD1002FAEX-0 + 500GB Western Digital WD5000AZRX-0 + 1000GB Elements 1078, Graphics: AMD Radeon HD 5550/5570/5630/6510/6610/7570 2048MB (157/200MHz), Audio: Realtek ALC888, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411 + Ralink RT3090 Wireless 802.11n 1T/1R

OS: Fedora 25, Kernel: 4.10.12-200.fc25.x86\_64 (x86\_64), Compiler: GCC 6.3.1 20161221, File-System: zfs, Screen Resolution: 1920x1080

## **Mirror (RAID1)**

Processor: Intel Core i5 650 @ 3.20GHz (4 Cores), Motherboard: MSI 2A9C v1.0, Chipset: Intel Core DRAM, Memory: 4096 MB + 2048 MB + 2048 MB + 2048 MB DDR3-1333MHz, Disk: 1000GB SAMSUNG HD103SJ + 1000GB Western Digital WD1002FAEX-0 + 500GB Western Digital WD5000AZRX-0 + 1000GB Elements 1078, Graphics: AMD Radeon HD 5550/5570/5630/6510/6610/7570 2048MB (157/200MHz), Audio: Realtek ALC888, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411 + Ralink RT3090 Wireless 802.11n 1T/1R

OS: Fedora 25, Kernel: 4.10.12-200.fc25.x86\_64 (x86\_64), Compiler: GCC 6.3.1 20161221, File-System: zfs, Screen Resolution: 1920x1080

## **RAID-Z (RAID5)**

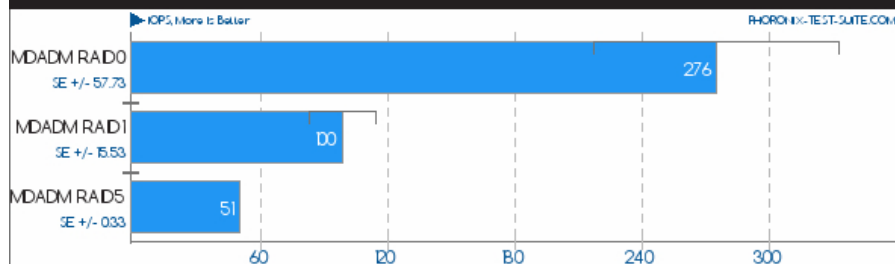
Processor: Intel Core i5 650 @ 3.20GHz (4 Cores), Motherboard: MSI 2A9C v1.0, Chipset: Intel Core DRAM, Memory: 4096 MB + 2048 MB + 2048 MB + 2048 MB DDR3-1333MHz, Disk: 1000GB SAMSUNG HD103SJ + 1000GB Western Digital WD1002FAEX-0 + 500GB Western Digital WD5000AZRX-0 + 1000GB Elements 1078, Graphics: AMD Radeon HD 5550/5570/5630/6510/6610/7570 2048MB (157/200MHz), Audio: Realtek ALC888, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411 + Ralink RT3090 Wireless 802.11n 1T/1R

OS: Fedora 25, Kernel: 4.10.12-200.fc25.x86\_64 (x86\_64), Compiler: GCC 6.3.1 20161221, File-System: zfs, Screen Resolution: 1920x1080

## mdadm-raid0-xfs-4mb-randomwrite

### Flexible IO Tester v2.1.13

Type: Random Write - IO Engine: POSIX - IO - Buffered: Yes - Direct: Yes - Block Size: 4096 - Disk Target: /mnt/mdadm\_raid - Result: IOPS

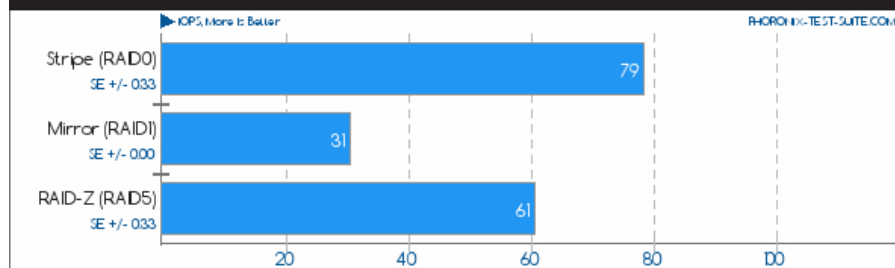


Phoronix Test Suite 6.6.0

1 (CC) gcc options: -rdynamic -std=gnu99 -O3 -ffast-math -include -lrt -laio -lm -lpthread -ld

### Flexible IO Tester v2.1.13

Type: Random Write - IO Engine: POSIX - IO - Buffered: Yes - Direct: Yes - Block Size: 4096 - Disk Target: Default Test Directory - Result: IOPS



Phoronix Test Suite 6.6.0

1 (CC) gcc options: -rdynamic -std=gnu99 -O3 -ffast-math -include -lrt -laio -lz -lm -lpthread -ld

