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cent-freenas-ds4300

test 1

Test Systems:

centos vm backed by freenas disks by ds4300 plus ramfs for cache and zlog

Processor: 4 x Intel Xeon E7 4870 (8 Cores), Motherboard: Intel 440BX (6.00 BIOS), Chipset: Intel 440BX/ZX/DX, Memory: 2 x 16384 MB DRAM, Disk: 64GB Virtual disk, Graphics: VMware SVGA II, Network: VMware VMXNET3

OS: CentOS Linux 7, Kernel: 3.10.0-514.el7.x86_64 (x86_64), Compiler: GCC 4.8.5 20150623, File-System: btrfs, Screen Resolution: 2048x1600, System Layer: VMware

Compiler Notes: --build=x86_64-redhat-linux --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-linker-hash-style=gnu --with-tune=generic
Disk Notes: DEADLINE / relatime,rw,seclabel,space_cache,ssd,subvol=/root,subvolid=257
Security Notes: SELinux

cent-freenas-ds4300

	centos vm backed by freenas disks by ds4300 plus ramfs for cache and zlog
IOzone - 1MB - 2GB - Read Performance (MB/s)	2560
Standard Deviation	0.9%
IOzone - 1MB - 4GB - Read Performance (MB/s)	2579
Standard Deviation	1.4%
IOzone - 1MB - 8GB - Read Performance (MB/s)	2561
Standard Deviation	2%
IOzone - 4Kb - 2GB - Read Performance (MB/s)	2078
Standard Deviation	2%
IOzone - 4Kb - 4GB - Read Performance (MB/s)	2194
Standard Deviation	1.8%
IOzone - 4Kb - 8GB - Read Performance (MB/s)	2107
Standard Deviation	7.8%
IOzone - 1MB - 2GB - Write Performance (MB/s)	340.15
Standard Deviation	5.2%
IOzone - 1MB - 4GB - Write Performance (MB/s)	367.32
Standard Deviation	2.8%
IOzone - 1MB - 8GB - Write Performance (MB/s)	254.88
Standard Deviation	15.7%
IOzone - 4Kb - 2GB - Write Performance (MB/s)	310.59
Standard Deviation	4.3%
IOzone - 4Kb - 4GB - Write Performance (MB/s)	334.77
Standard Deviation	4.1%
IOzone - 4Kb - 8GB - Write Performance (MB/s)	253.53
Standard Deviation	16.7%
IOzone - 64Kb - 2GB - Read Performance (MB/s)	2594
Standard Deviation	0.1%
IOzone - 64Kb - 4GB - Read Performance (MB/s)	2606
Standard Deviation	2.5%
IOzone - 64Kb - 8GB - Read Performance (MB/s)	2656
Standard Deviation	2.4%
IOzone - 1MB - 512MB - Read Performance (MB/s)	2644
Standard Deviation	1.7%
IOzone - 4Kb - 512MB - Read Performance (MB/s)	2197
Standard Deviation	1.1%
IOzone - 64Kb - 2GB - Write Performance (MB/s)	329.60
Standard Deviation	6.5%
IOzone - 64Kb - 4GB - Write Performance (MB/s)	360.80
Standard Deviation	4%
IOzone - 64Kb - 8GB - Write Performance (MB/s)	256.37
Standard Deviation	16.5%
IOzone - 1MB - 512MB - Write Performance (MB/s)	306.23
Standard Deviation	12.2%
IOzone - 4Kb - 512MB - Write Performance (MB/s)	270.83
Standard Deviation	10.4%
IOzone - 64Kb - 512MB - Read Performance (MB/s)	2631
Standard Deviation	0.3%
IOzone - 64Kb - 512MB - Write Performance (MB/s)	305.47
Standard Deviation	8.8%

IOzone 3.465
Record Size: 1MB - File Size: 2GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 13.38, N = 3
2560.19
500 1000 1500 2000 2500
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 1MB - File Size: 4GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 21.11, N = 3
2579.48
600 1200 1800 2400 3000
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 1MB - File Size: 8GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 29.89, N = 3
2560.51
500 1000 1500 2000 2500
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 4Kb - File Size: 2GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 23.87, N = 3
2077.61
400 800 1200 1600 2000
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 4Kb - File Size: 4GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 23.05, N = 3
2193.50
500 1000 1500 2000 2500
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 4Kb - File Size: 8GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 42.55, N = 15
2107.27
500 1000 1500 2000 2500
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 1MB - File Size: 2GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 4.58, N = 15
340.15
70 140 210 280 350
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 1MB - File Size: 4GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 5.95, N = 3
367.32
80 160 240 320 400
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 1MB - File Size: 8GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 10.32, N = 15
254.88
60 120 180 240 300
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 4Kb - File Size: 2GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 3.41, N = 15
310.59
70 140 210 280 350
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 4Kb - File Size: 4GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
SE +/- 3.57, N = 15
MB/s, More Is Better
334.77
70 140 210 280 350
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 4Kb - File Size: 8GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
SE +/- 10.96, N = 15
MB/s, More Is Better
253.53
60 120 180 240 300
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 64Kb - File Size: 2GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
SE +/- 1.86, N = 3
MB/s, More Is Better
2593.90
600 1200 1800 2400 3000
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 64Kb - File Size: 4GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
SE +/- 36.99, N = 3
MB/s, More Is Better
2605.87
600 1200 1800 2400 3000
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 64Kb - File Size: 8GB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
SE +/- 36.88, N = 3
MB/s, More Is Better
2655.52
600 1200 1800 2400 3000
1. (CC) gcc options: -O3

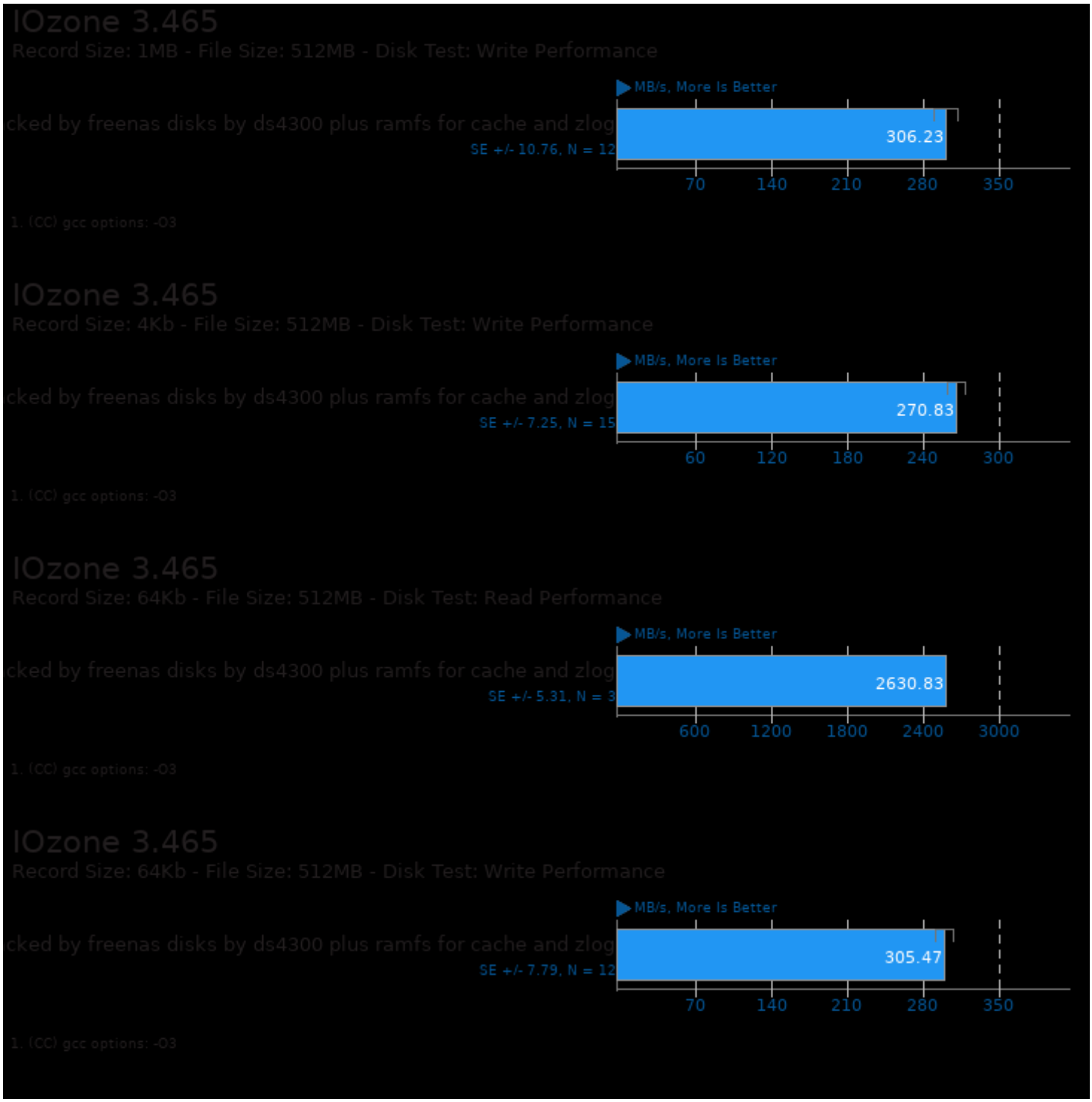
IOzone 3.465
Record Size: 1MB - File Size: 512MB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 25.61, N = 3
2644.35
600 1200 1800 2400 3000
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 4Kb - File Size: 512MB - Disk Test: Read Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 14.14, N = 3
2197.36
500 1000 1500 2000 2500
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 64Kb - File Size: 2GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 6.21, N = 12
329.60
70 140 210 280 350
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 64Kb - File Size: 4GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 3.77, N = 15
360.80
80 160 240 320 400
1. (CC) gcc options: -O3

IOzone 3.465
Record Size: 64Kb - File Size: 8GB - Disk Test: Write Performance
cked by freenas disks by ds4300 plus ramfs for cache and zlog
MB/s, More Is Better
SE +/- 10.93, N = 15
256.37
60 120 180 240 300
1. (CC) gcc options: -O3



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