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Intel Core i7-4770 testing on CentOS 6.4 via the Phoronix Test Suite.

Automated Executive Summary

RAM-Debian7-LXC-EX40 had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (PBzip-Debian7-LXC-EX40) was 1.013x the speed of the slowest (RAM-Debian7-LXC-EX40). Debian7-LXC-EX40 was 0.997x the speed of PBzip-Debian7-LXC-EX40, Apache-Debian7-LXC-EX40 was 0.998x the speed of Debian7-LXC-EX40, RAM-Debian7-LXC-EX40 was 0.993x the speed of Apache-Debian7-LXC-EX40.

Test Systems:

Debian7-LXC-EX40

Apache-Debian7-LXC-EX40

PBzip-Debian7-LXC-EX40

RAM-Debian7-LXC-EX40

Processor: Intel Core i7-4770 @ 3.40GHz (8 Cores), Motherboard: MSI H87-G43 (MS-7816) v1.0, Memory: 32768MB, Disk: 2 x 2000GB Seagate ST2000NM0033-9ZM

OS: CentOS 6.4, Kernel: 3.2.0-4-amd64 (x86_64), Compiler: GCC 4.4.7 20120313, File-System: ext4

Compiler Notes: --build=x86_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgcj-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-cloog --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-1.5.0.0/jre --with-ppl --with-tune=generic
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Disk Mount Options Notes: barrier=1,data=ordered,relatime,rw,user_xattr

Debian7-LXC-EX40-I

Processor: Intel Core i7-4770 @ 3.40GHz (8 Cores), Motherboard: MSI H87-G43 (MS-7816) v1.0, Memory: 32768MB, Disk: 2 x 2000GB Seagate ST2000NM0033-9ZM

OS: CentOS 6.4 (Final), Kernel: 3.2.0-4-amd64 (x86_64), Compiler: GCC 4.4.7 20120313, File-System: ext4

Compiler Notes: --build=x86_64-redhat-linux --disable-dssi --disable-libjava-multilib --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-java-awt=gtk --enable-java-maintainer-mode --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-libgcj-multifile --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-cloog --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-1.5.0.0/jre --with-ppl --with-tune=generic
Disk Mount Options Notes: barrier=1,data=ordered,relatime,rw,user_xattr

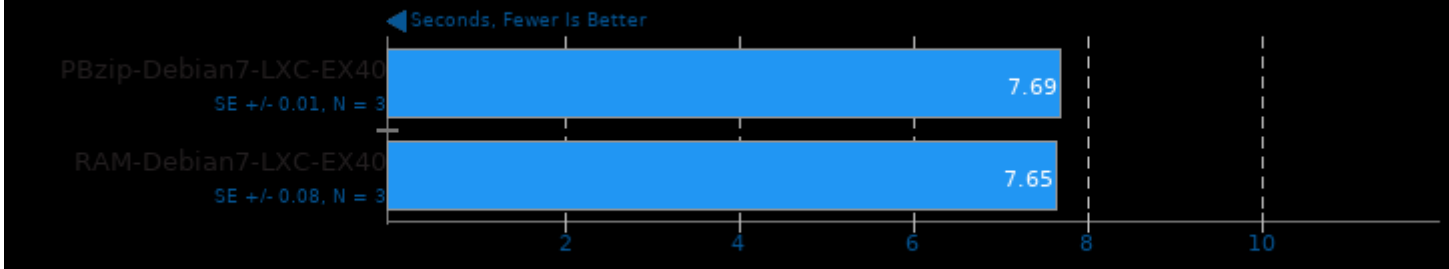
	Debian7-LXC-EX40	Apache-Debian7-LXC-EX40	PBzip-Debian7-LXC-EX40	RAM-Debian7-LXC-EX40	Debian7-LXC-EX40-I
Parallel BZIP2 Compression - 2.F.C (sec)			7.69	**7.71**	
Normalized			99.48%	99.22%	
Standard Deviation			0.3%	3.1%	
AIO-Stress - Rand Write (MB/s)	**4560**	4564	4564	4563	
Normalized	99.27%	99.34%	99.35%	99.31%	
Standard Deviation	0.1%	0.9%	0.6%	0.3%	
IOzone - 1MB - 2GB - Read Performance (MB/s)					7760
Standard Deviation					1.5%
IOzone - 1MB - 2GB - Write Performance (MB/s)					148.02
Standard Deviation					0.4%
IOzone - 64Kb - 2GB - Write Performance (MB/s)					147.64
Standard Deviation					0.5%
IOzone - 4Kb - 2GB - Read Performance (MB/s)					7224
Standard Deviation					0.3%

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IOzone - 4Kb - 2GB - Write Performance (MB/s)					146.24
Standard Deviation					0.5%
IOzone - 64Kb - 2GB - Read Performance (MB/s)					8197
Standard Deviation					6.6%
Apache Benchmark - S.W.P.S (Reqs/sec)	35031	34857	35243	**34351**	
Normalized	97.66%	97.18%	98.25%	95.76%	
Standard Deviation	6.2%	5.1%	5.9%	6.7%	

Parallel BZIP2 Compression 1.1.6

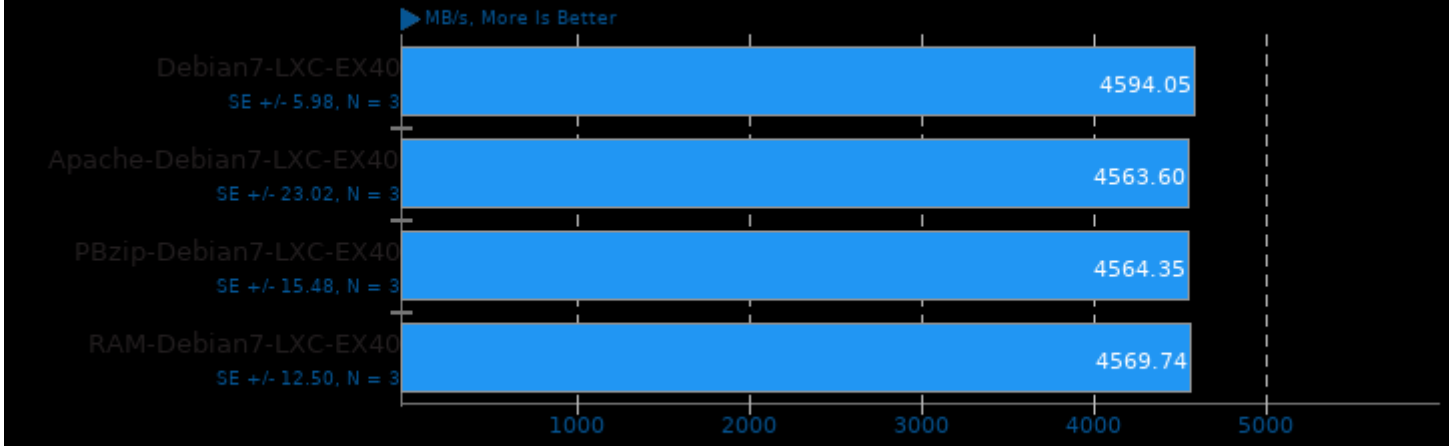
256MB File Compression



1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

AIO-Stress 0.21

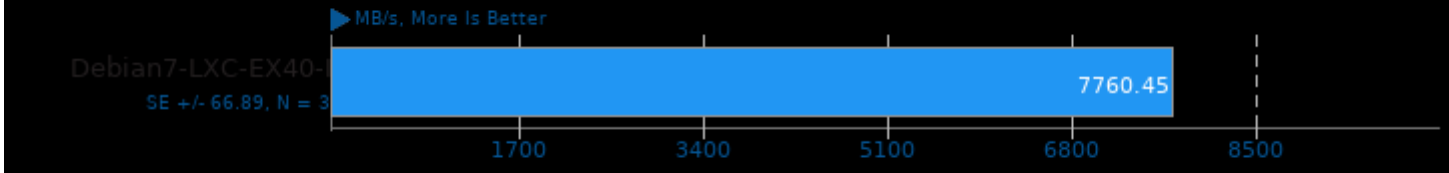
Test: Random Write



1. (CC) gcc options: -pthread -laio

IOzone 3.405

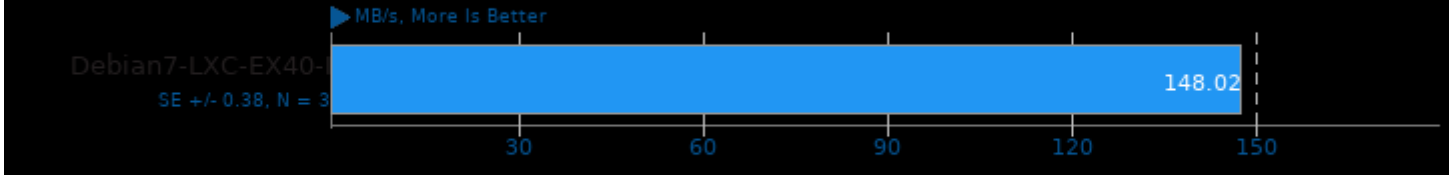
Record Size: 1MB - File Size: 2GB - Disk Test: Read Performance



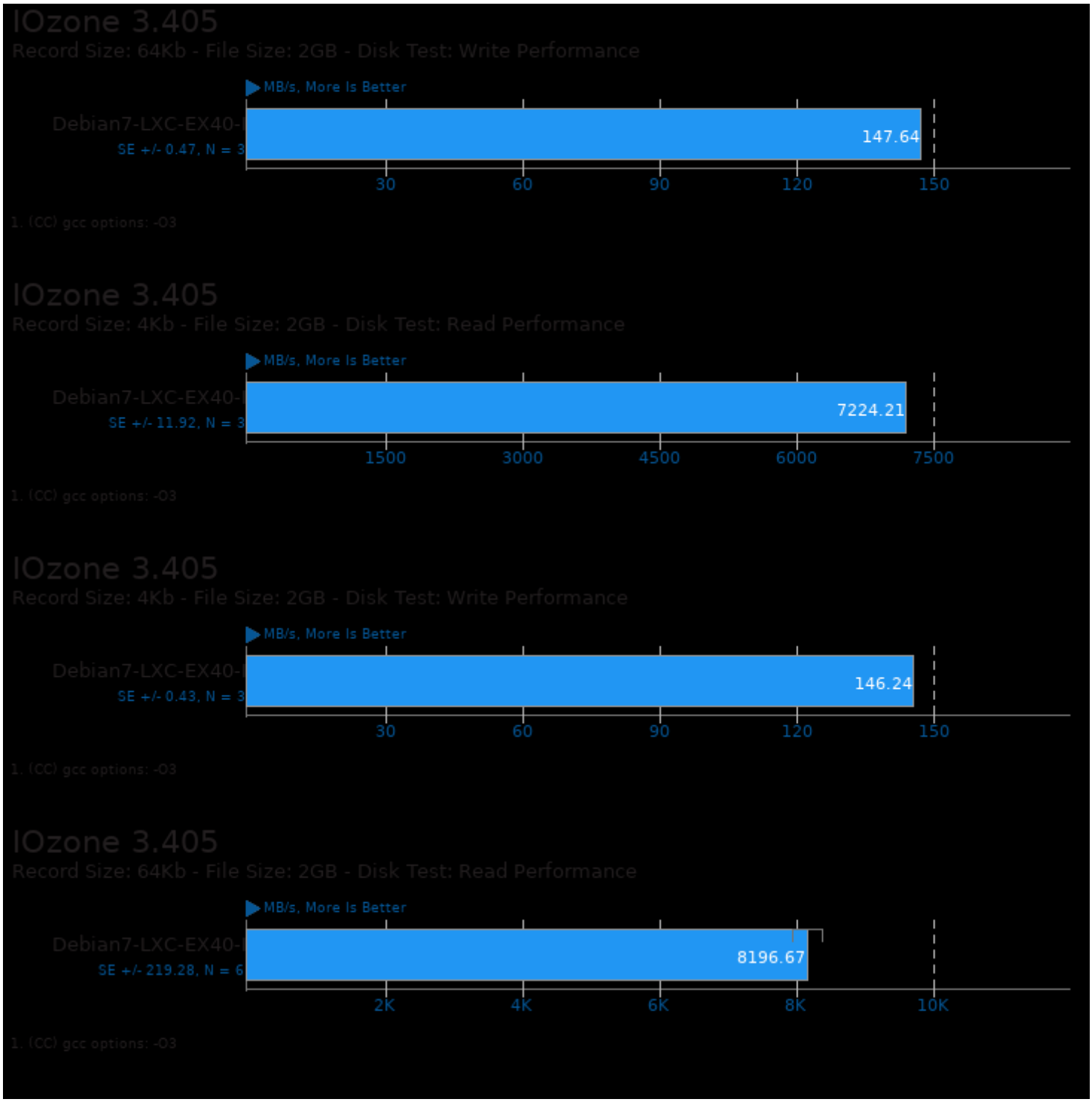
1. (CC) gcc options: -O3

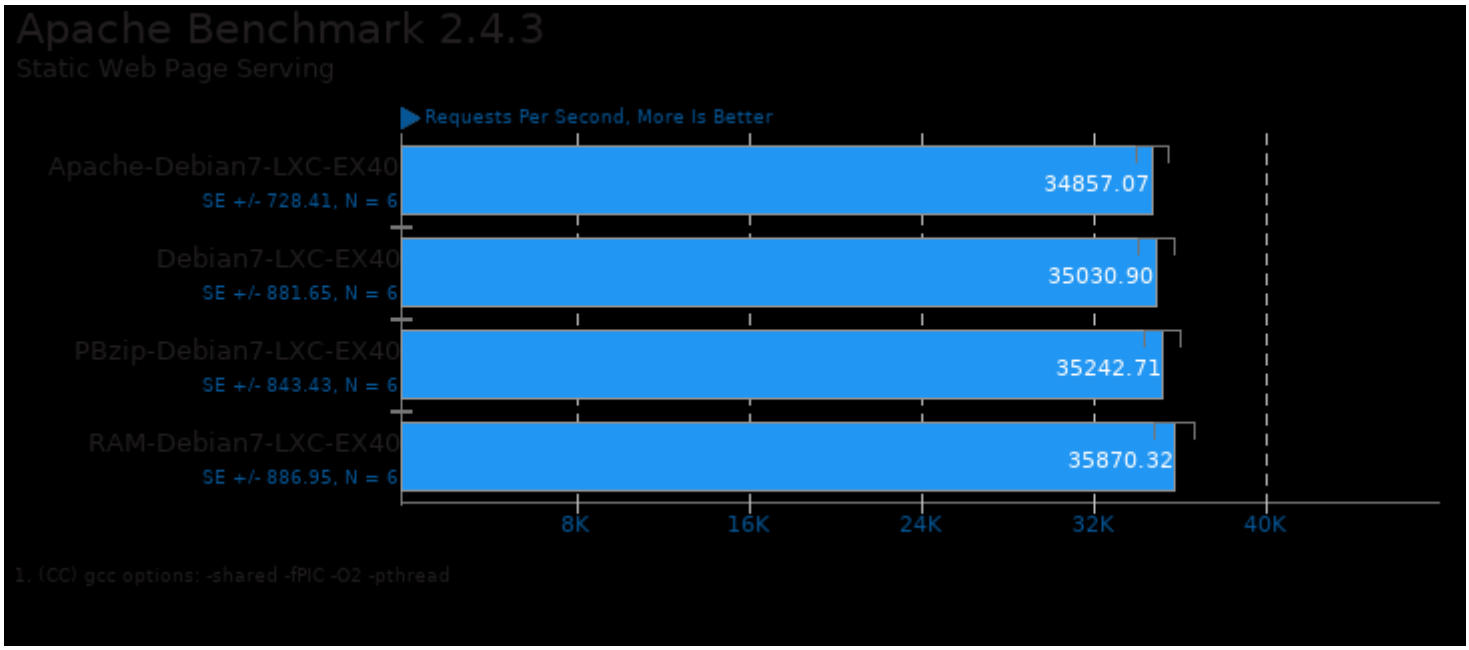
IOzone 3.405

Record Size: 1MB - File Size: 2GB - Disk Test: Write Performance



1. (CC) gcc options: -O3


IOzone 3.405
Record Size: 64Kb - File Size: 2GB - Disk Test: Write Performance
MB/s, More Is Better
Debian7-LXC-EX40-
SE +/- 0.47, N = 3
147.64
30
60
90
120
150
1. (CC) gcc options: -O3
IOzone 3.405
Record Size: 4Kb - File Size: 2GB - Disk Test: Read Performance
MB/s, More Is Better
Debian7-LXC-EX40-
SE +/- 11.92, N = 3
7224.21
1500
3000
4500
6000
7500
1. (CC) gcc options: -O3
IOzone 3.405
Record Size: 4Kb - File Size: 2GB - Disk Test: Write Performance
MB/s, More Is Better
Debian7-LXC-EX40-
SE +/- 0.43, N = 3
146.24
30
60
90
120
150
1. (CC) gcc options: -O3
IOzone 3.405
Record Size: 64Kb - File Size: 2GB - Disk Test: Read Performance
MB/s, More Is Better
Debian7-LXC-EX40-
SE +/- 219.28, N = 6
8196.67
2K
4K
6K
8K
10K
1. (CC) gcc options: -O3



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