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3400g zstd 1.5

AMD Ryzen 5 3400G testing with a ASUS PRIME B450M-A (2006 BIOS) and ASUS AMD Picasso 2GB on Ubuntu 19.10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 46% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.002x the speed of the slowest (1). 2 was 0.999x the speed of 3 and 1 was 0.999x the speed of 2.

Test Systems:

1

2

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3

Processor: AMD Ryzen 5 3400G @ 3.70GHz (4 Cores / 8 Threads), Motherboard: ASUS PRIME B450M-A (2006 BIOS), Chipset: AMD Raven/Raven2, Memory: 2 x 8192 MB DDR4-3000MT/s CRUCIAL, Disk: 29GB INTEL MEMPEK1W032GA + 4 x 6001GB Seagate ST6000VN0033-2EE, Graphics: ASUS AMD Picasso 2GB (1400/1500MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 19.10, Kernel: 5.3.0-46-generic (x86_64), Desktop: GNOME Shell 3.34.1, Display Server: X Server, Display Driver: asus, Vulkan: 1.1.107, Compiler: GCC 9.2.1 20191008, File-System: ext4, Screen Resolution: 1280x800

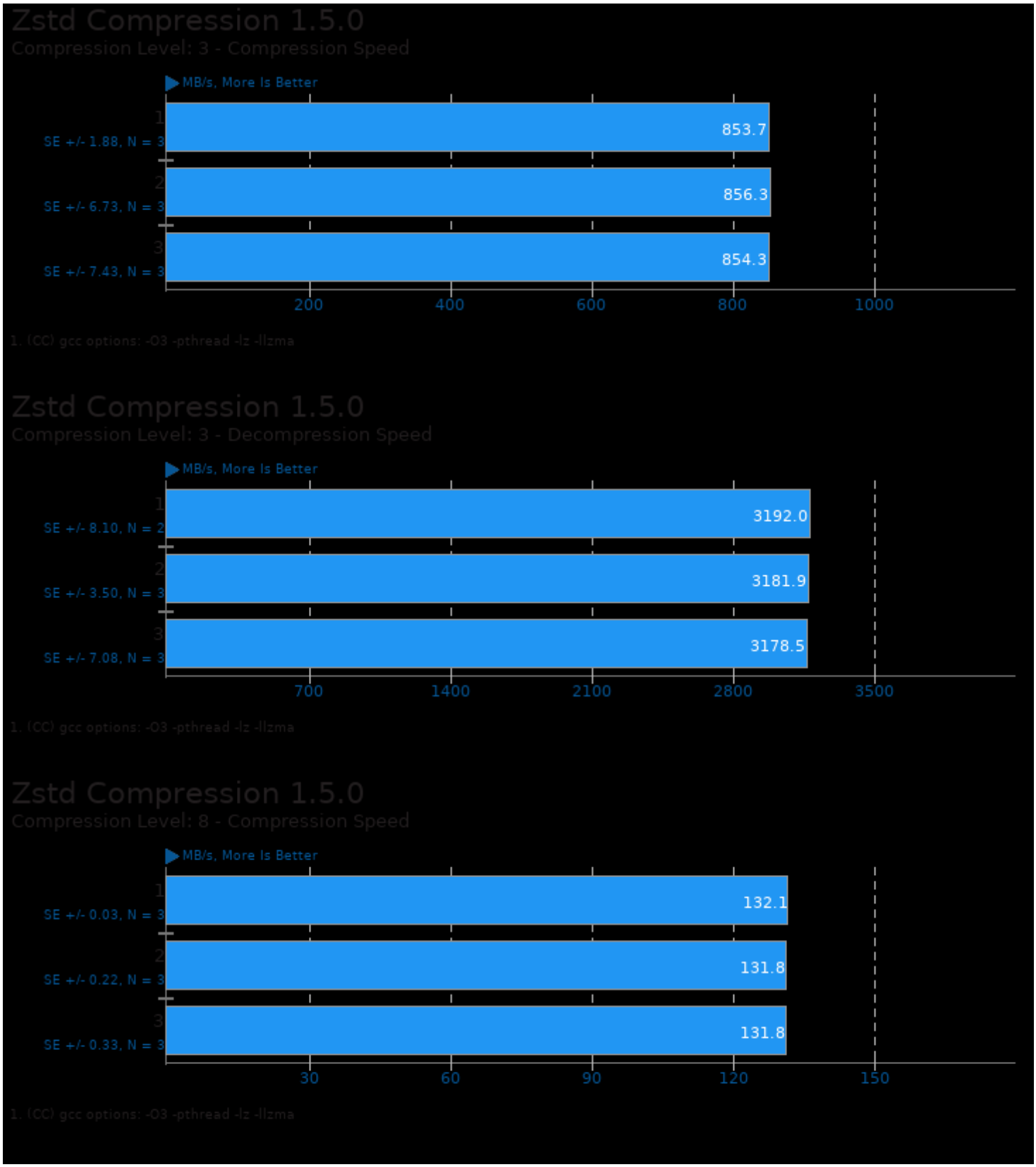
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-offload-targets=nvptx-none,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8108109
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

	1	2	3
Zstd Compression - 3 - Compression Speed (MB/s)	**853.7**	**856.3**	854.3
Normalized	99.7%	100%	99.77%
Standard Deviation	0.4%	1.4%	1.5%
Zstd Compression - 3 - D.S (MB/s)	**3192**	3182	**3179**
Normalized	100%	99.68%	99.58%
Standard Deviation	0.4%	0.2%	0.4%
Zstd Compression - 8 - Compression Speed (MB/s)	**132.1**	**131.8**	**131.8**
Normalized	100%	99.77%	99.77%
Standard Deviation	0%	0.3%	0.4%
Zstd Compression - 8 - D.S (MB/s)	**3301**	3300	**3293**
Normalized	100%	99.96%	99.76%
Standard Deviation	0.2%	0.3%	0.2%
Zstd Compression - 19 - Compression Speed (MB/s)	15.0	**14.9**	**15.1**
Normalized	99.34%	98.68%	100%
Standard Deviation	0.4%	1%	0.8%
Zstd Compression - 19 - D.S (MB/s)	**2685**	**2693**	2686
Normalized	99.73%	100%	99.76%
Standard Deviation	0.2%	0.5%	0.2%
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	**536.3**	539.2	**541.3**
Normalized	99.08%	99.61%	100%
Standard Deviation	0.7%	0.4%	0.5%
Zstd Compression - 3, Long Mode - D.S	**3391**	3391	**3380**
Normalized	100%	99.98%	99.67%
Standard Deviation	0.2%	0.3%	0.1%

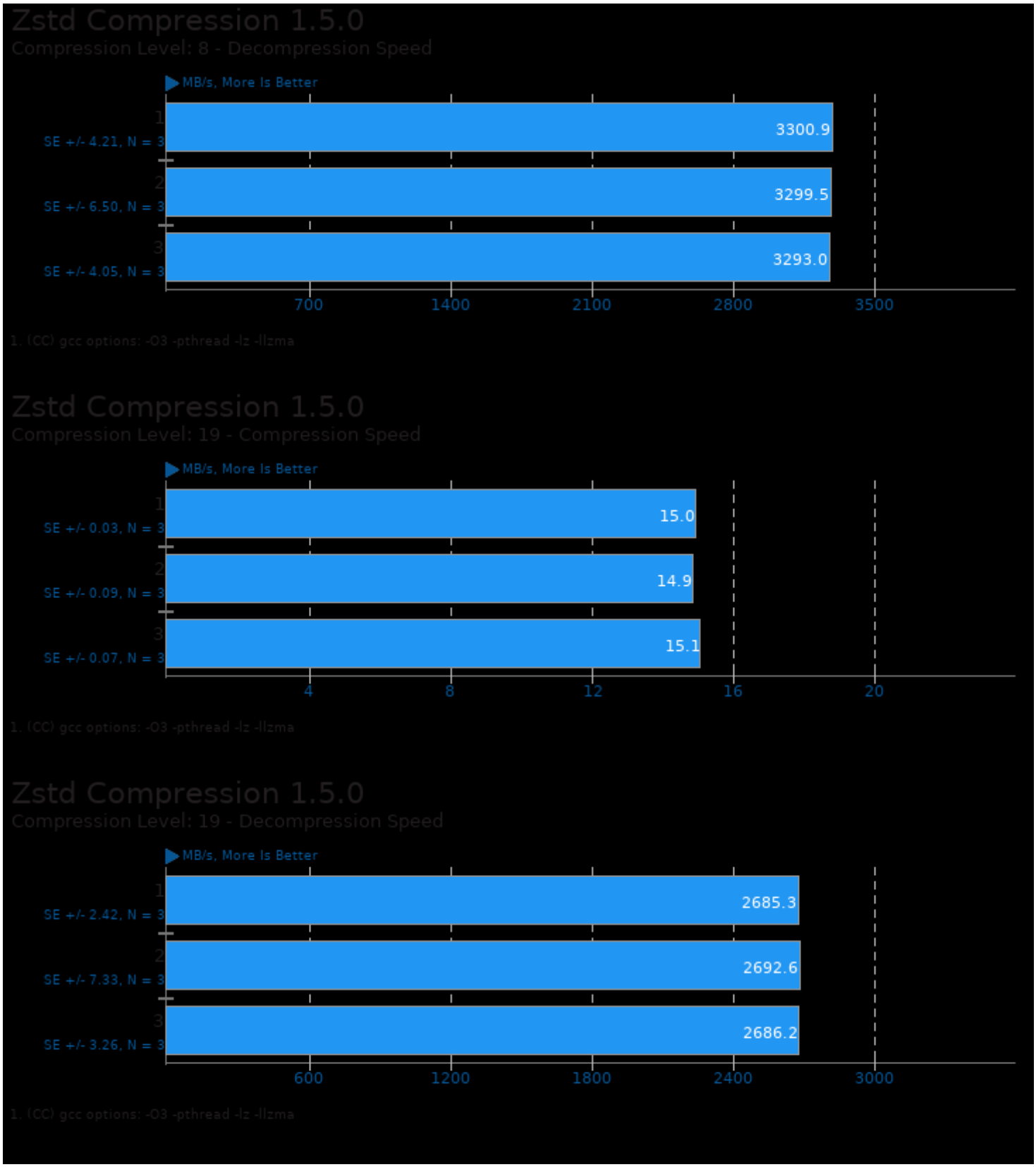
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Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	**136.0**	**135.4**	135.9
Normalized	100%	99.56%	99.93%
Standard Deviation	0.5%	0.4%	0.7%
Zstd Compression - 8, Long Mode - D.S	**3498**	3498	**3500**
Normalized	99.94%	99.94%	100%
Standard Deviation	0%	0.2%	0.1%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	12.6	12.6	12.6
Standard Deviation	0.8%	0.8%	0.9%
Zstd Compression - 19, Long Mode - D.S (MB/s)	**2802**	2819	**2823**
Normalized	99.25%	99.87%	100%
Standard Deviation	1.4%	0.6%	0.5%
GROMACS - MPI CPU - water_GMX50_bare (Ns/Day)	**0.365**	**0.37**	**0.370**
Normalized	98.65%	100%	100%
Standard Deviation	1.5%	1.6%	0.2%

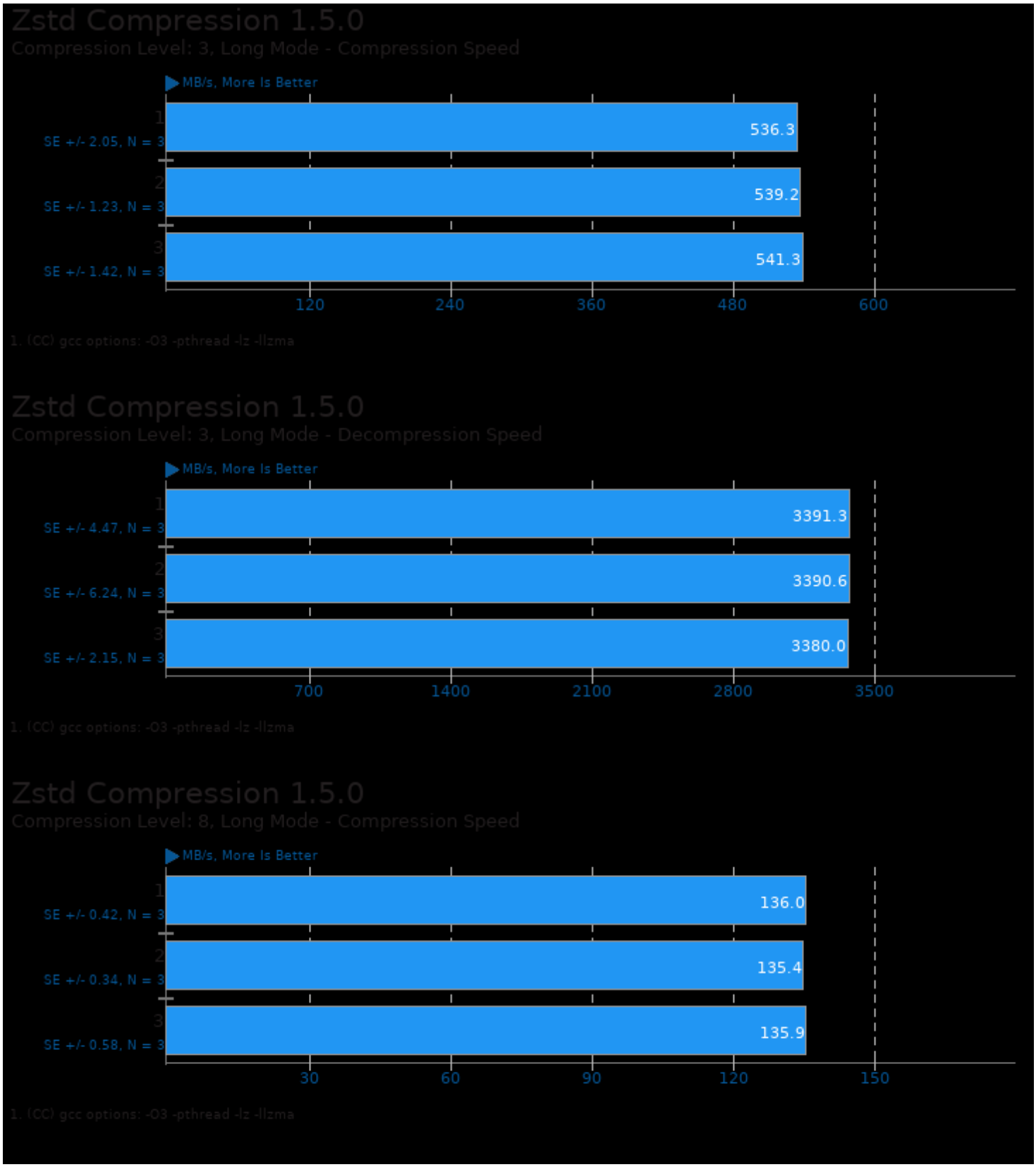
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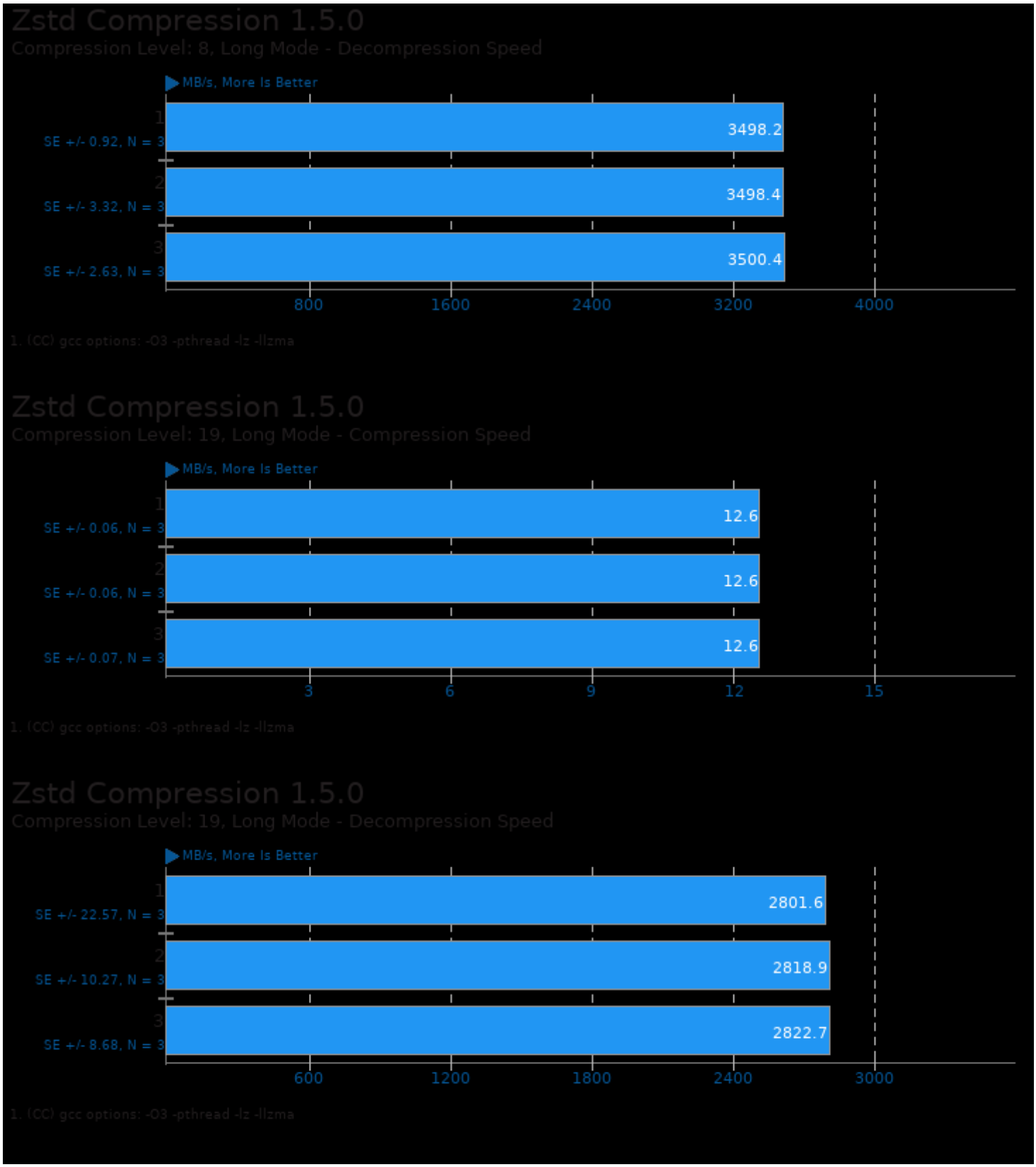
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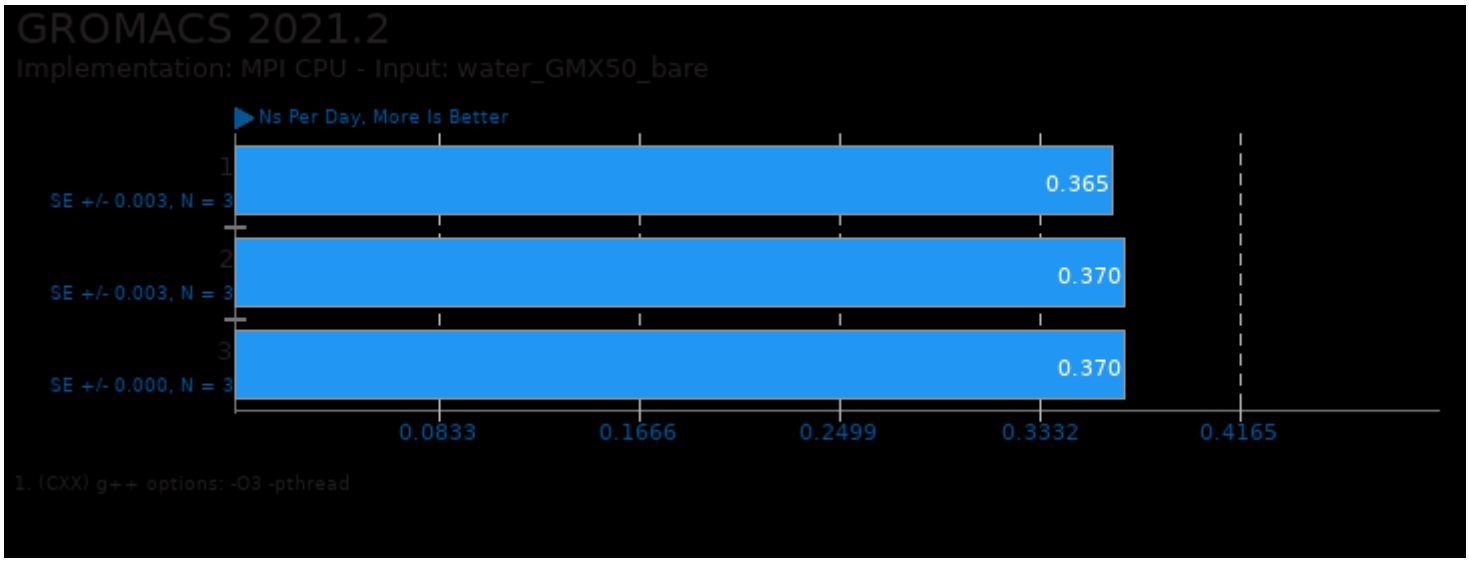
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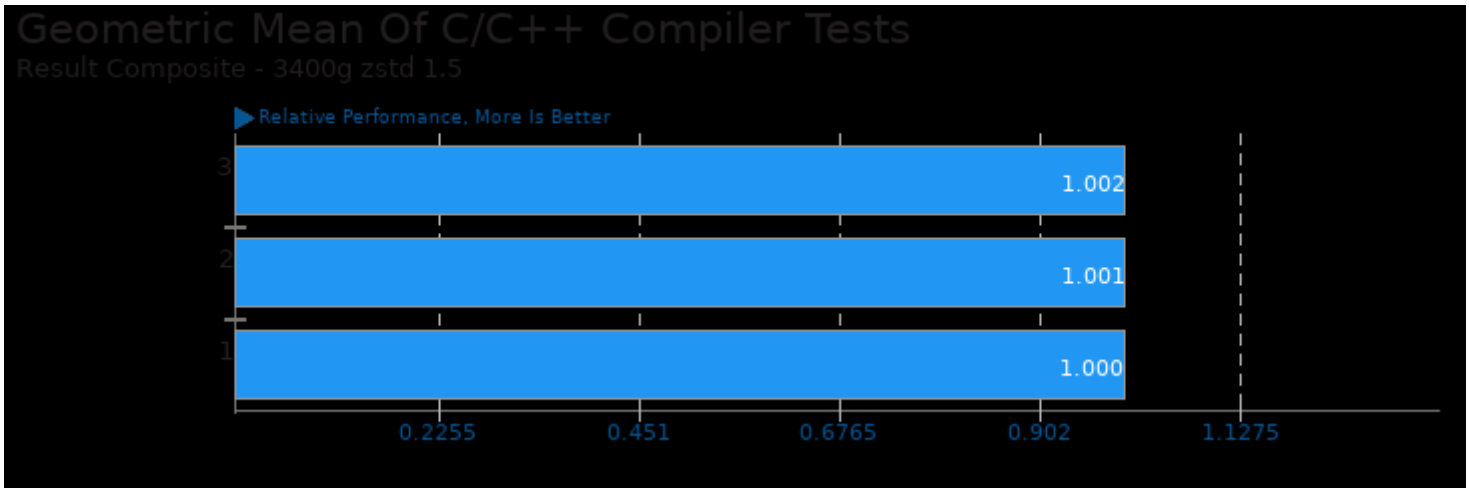


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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/compress-zstd and pts/gromacs



Geometric mean based upon tests: pts/gromacs and pts/compress-zstd

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:18.