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ZSTD version

AMD Ryzen 7 PRO 5850U testing with a LENOVO 20X7003WFR (R1KET37W 1.22 BIOS) and AMD Cezanne 1GB on Gentoo 2.9 via the Phoronix Test Suite.

Test Systems:

ClearLinux 37000 GCC 12.1

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET37W 1.22 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Clear Linux OS 37000, Kernel: 5.19.6-1185.native (x86_64), Desktop: KDE Plasma 5.25.4, Display Server: X Server 1.21.1.4 + Wayland, OpenGL: 4.6 Mesa 22.3.0-devel (LLVM 14.0.6 DRM 3.47), Vulkan: 1.3.225, Compiler: GCC 12.2.1 20220901 releases/gcc-12.2.0-37-gf9593025a2 + Clang 14.0.6 + LLVM 14.0.6, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: FFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,--enable-new-dtags" CXXFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=skylake -mrelax-cmpxchg-loop -fuse-ld=mold -fvisibility-inlines-hidden -Wl,--enable-new-dtags" MESA_GLSL_CACHE_DISABLE=0 FCFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,-sort-common -Wl,--enable-new-dtags" CFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=skylake -mrelax-cmpxchg-loop -fuse-ld=mold" THEANO_FLAGS="floatX=float32,openmp=true,gcc.cxxflags="-ftree-vectorize -mavx""
Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-gnu-indirect-function --enable-host-shared --enable-languages=c,c++,fortran,go,jit --enable-ld=default --enable-libstdcxx-pch --enable-linux-futex --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=x86-64-v3 --with-gcc-major-version-only --with-glibc-version=2.35 --with-gnu-ld --with-isl --with-pic --with-ppl=yes --with-tune=skylake-avx512 --with-zstd
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Musl+Clang 15 W:native-O3

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET37W 1.22 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.9, Kernel: 5.19.10-gentoo (x86_64), Desktop: Lumina 1.6.0, Display Server: X Server 1.21.1.4, Compiler: Clang 15.0.1, File-System: ext4, Screen Resolution: 1920x1080

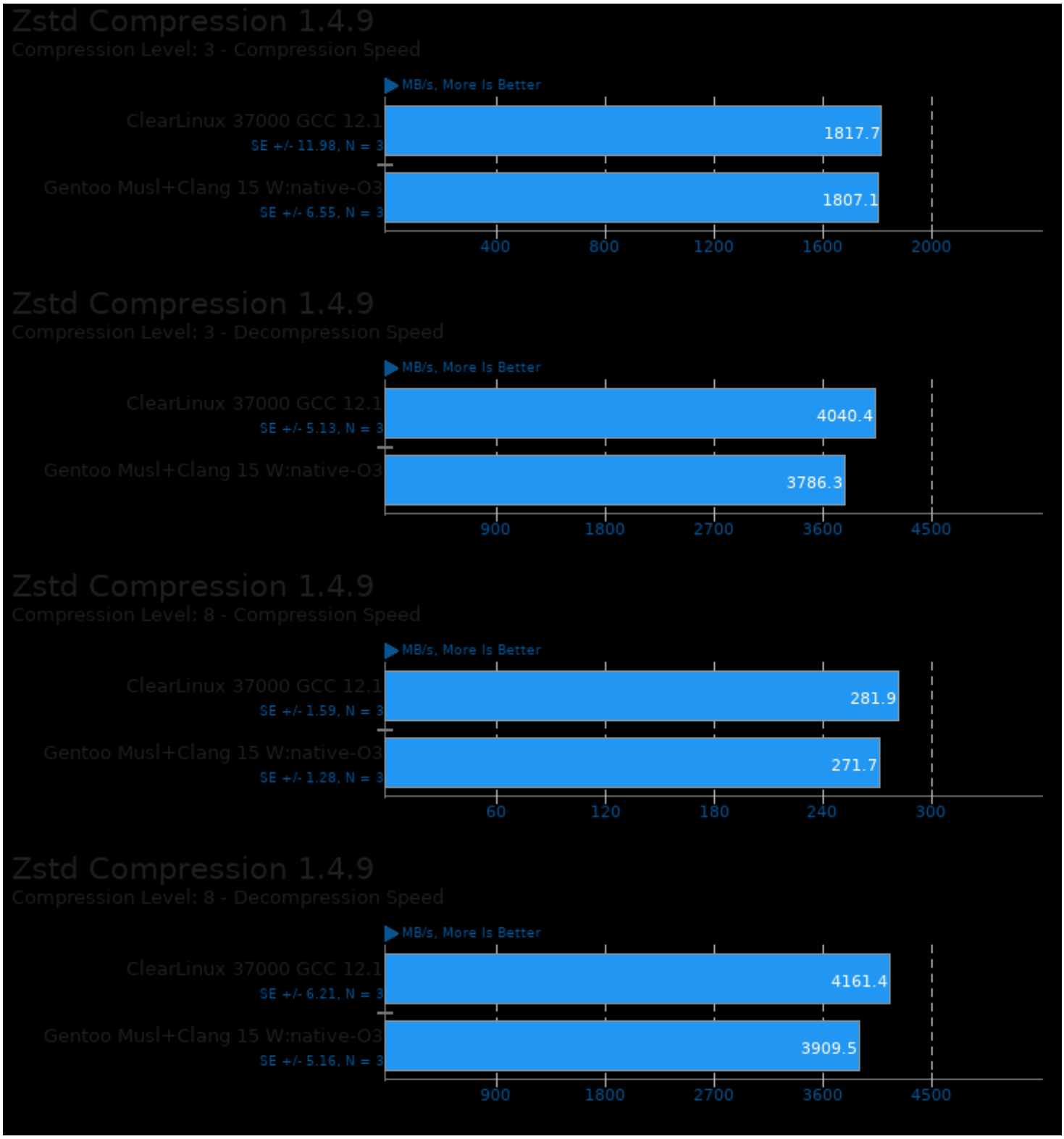
Kernel Notes: Transparent Huge Pages: always
Compiler Notes: Optimized build; Default target: x86_64-gentoo-linux-musl; Host CPU: znver3
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: low-power - CPU Microcode: 0xa50000c - ACPI Profile: low-power
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	ClearLinux 37000 GCC 12.1	Gentoo Musl+Clang 15 W:native-O3
Zstd Compression - 3 - Compression Speed (MB/s)	**1818**	**1807**
Normalized	100%	99.42%
Standard Deviation	1.1%	0.6%
Zstd Compression - 3 - D.S (MB/s)	**4040**	**3786**
Normalized	100%	93.71%
Standard Deviation	0.2%	
Zstd Compression - 8 - Compression Speed (MB/s)	**281.9**	**271.7**
Normalized	100%	96.38%
Standard Deviation	1%	0.8%
Zstd Compression - 8 - D.S (MB/s)	**4161**	**3910**
Normalized	100%	93.95%
Standard Deviation	0.3%	0.2%
Zstd Compression - 3 - Compression Speed (MB/s)	**1852**	**1834**
Normalized	100%	99.04%
Standard Deviation	1%	1%
Zstd Compression - 3 - D.S (MB/s)	**4005**	**3835**
Normalized	100%	95.76%

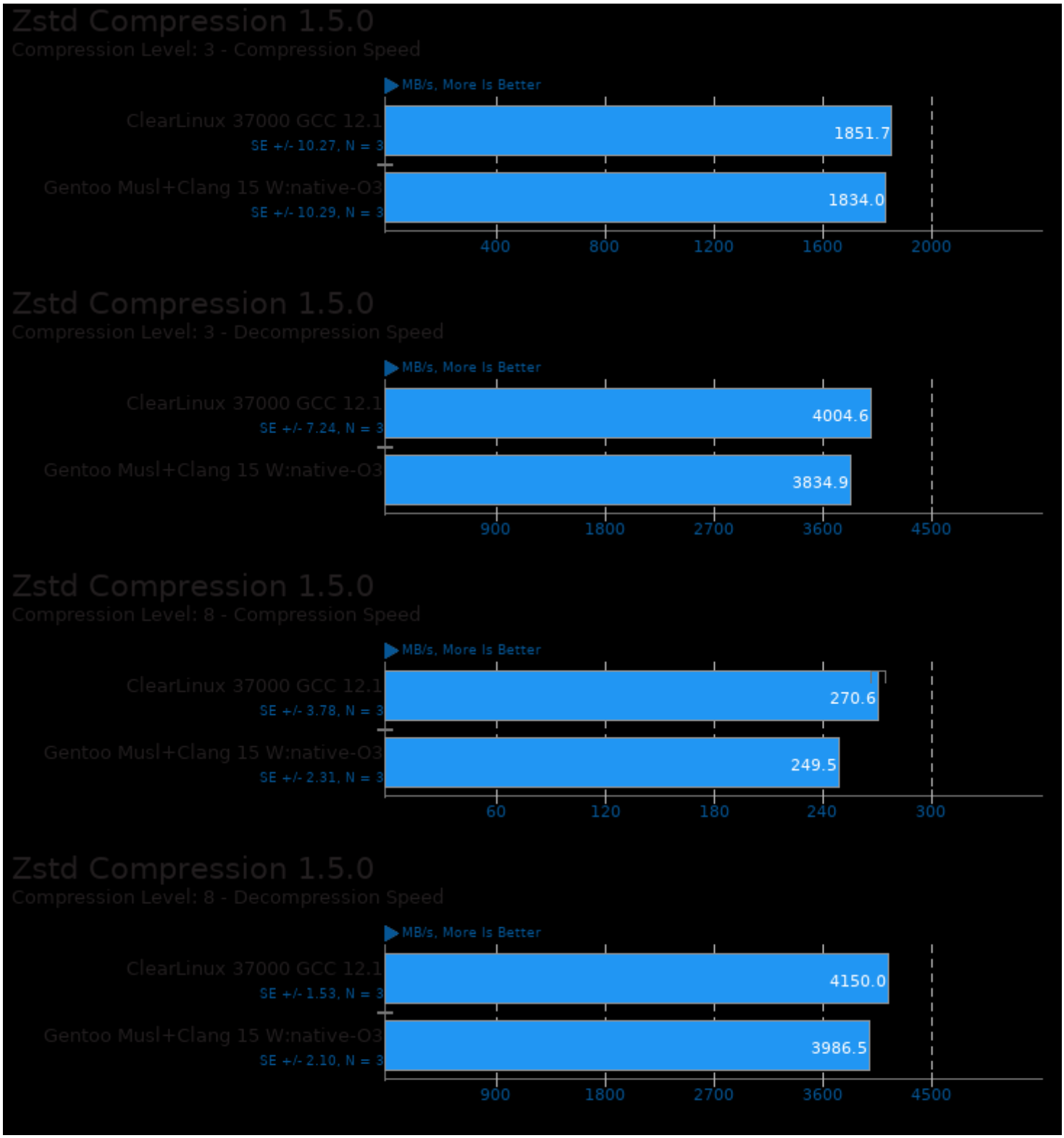
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Standard Deviation	0.3%	
Zstd Compression - 8 - Compression Speed (MB/s)	**270.6**	**249.5**
Normalized	100%	92.2%
Standard Deviation	2.4%	1.6%
Zstd Compression - 8 - D.S (MB/s)	**4150**	**3987**
Normalized	100%	96.06%
Standard Deviation	0.1%	0.1%

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 12:13.