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pts/compression1

pts/compression

Test Systems:

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Processor: 2 x AMD EPYC 7Y43 48-Core @ 2.55GHz (96 Cores / 192 Threads), Motherboard: Supermicro H12DSU-iN v1.01 (2.1 BIOS), Chipset: AMD Starship/Matisse, Memory: 16 x 64 GB DDR4-3200MT/s HMAA8GR7AJR4N-XN, Disk: 8002GB HGST HUS728T8TAL, Graphics: ASPEED, Monitor: 219S2, Network: 2 x Intel X710 for 10GBASE-T

OS: CentOS Linux 8, Kernel: 4.18.0-240.el8.x86_64 (x86_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server, Compiler: GCC 8.3.1 20191121, File-System: xfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa00111d
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

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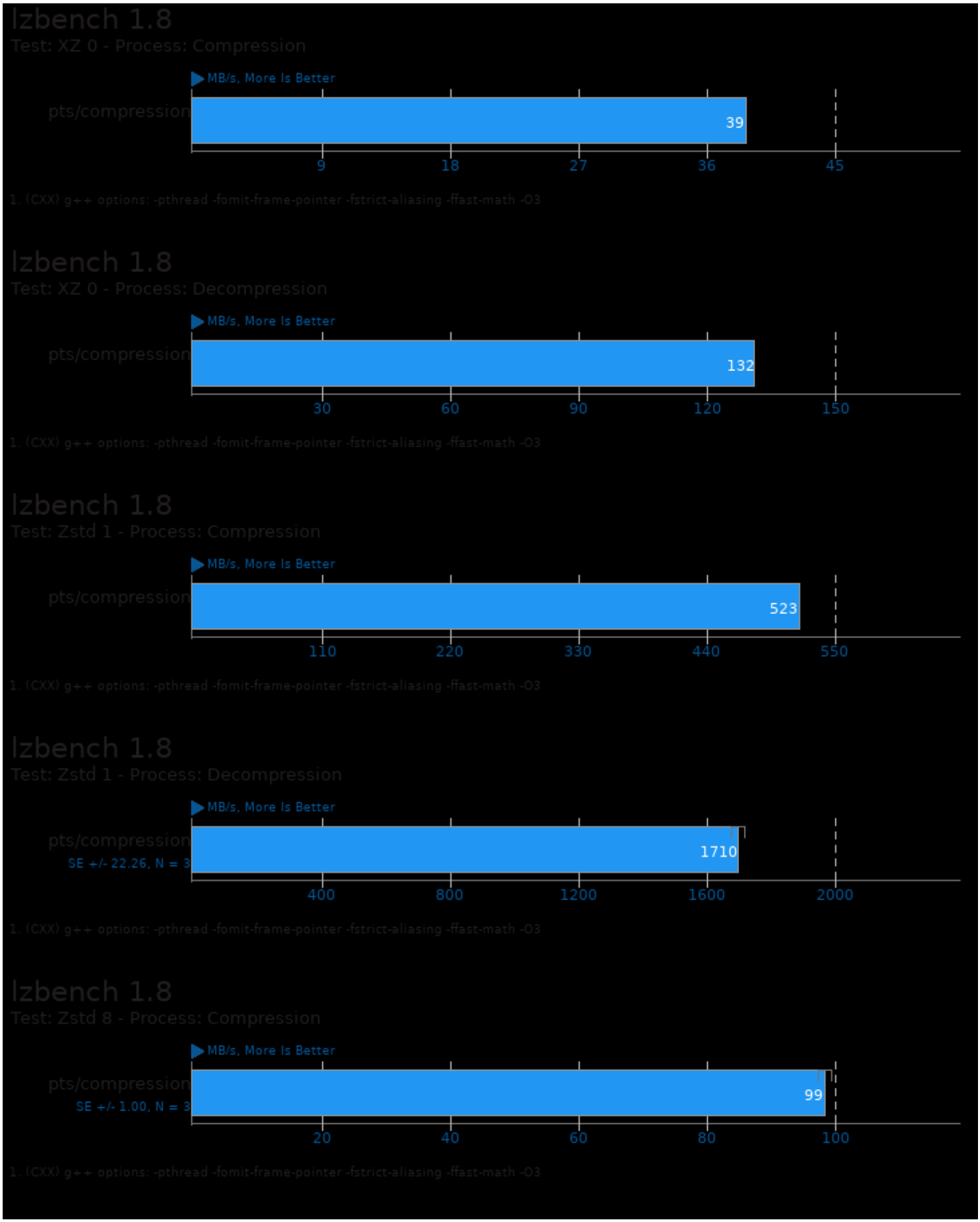
seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

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lzbench - XZ 0 - Compression (MB/s)	39
lzbench - XZ 0 - Decompression (MB/s)	132
lzbench - Zstd 1 - Compression (MB/s)	523
lzbench - Zstd 1 - Decompression (MB/s)	1710
Standard Deviation	2.3%
lzbench - Zstd 8 - Compression (MB/s)	99
Standard Deviation	1.7%
lzbench - Zstd 8 - Decompression (MB/s)	1943
Standard Deviation	0.2%
lzbench - Crush 0 - Compression (MB/s)	143
lzbench - Crush 0 - Decompression (MB/s)	509
Standard Deviation	0.2%
lzbench - Brotli 0 - Compression (MB/s)	489
lzbench - Brotli 0 - Decompression (MB/s)	611
lzbench - Brotli 2 - Compression (MB/s)	197
lzbench - Brotli 2 - Decompression (MB/s)	728
lzbench - Libdeflate 1 - Compression (MB/s)	246
Standard Deviation	0.4%
lzbench - Libdeflate 1 - Decompression (MB/s)	1194
LZ4 Compression - 1 - Compression Speed (MB/s)	14793
Standard Deviation	1.1%
LZ4 Compression - 1 - D.S (MB/s)	16905
Standard Deviation	1.4%
LZ4 Compression - 3 - Compression Speed (MB/s)	54.69
Standard Deviation	1.6%
LZ4 Compression - 3 - D.S (MB/s)	15596
Standard Deviation	0.7%
LZ4 Compression - 9 - Compression Speed (MB/s)	54.46
Standard Deviation	0.1%
LZ4 Compression - 9 - D.S (MB/s)	15608
Standard Deviation	0.7%
Zstd Compression - 3 - Compression Speed (MB/s)	8324
Standard Deviation	3%
Zstd Compression - 3 - D.S (MB/s)	3776
Zstd Compression - 8 - Compression Speed (MB/s)	4206
Standard Deviation	2.4%
Zstd Compression - 19 - Compression Speed (MB/s)	82.6
Standard Deviation	10.3%
Zstd Compression - 19 - D.S (MB/s)	3495
Standard Deviation	0.5%
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	850.3
Standard Deviation	1.1%
Zstd Compression - 3, Long Mode - D.S (MB/s)	4111
Standard Deviation	0.1%

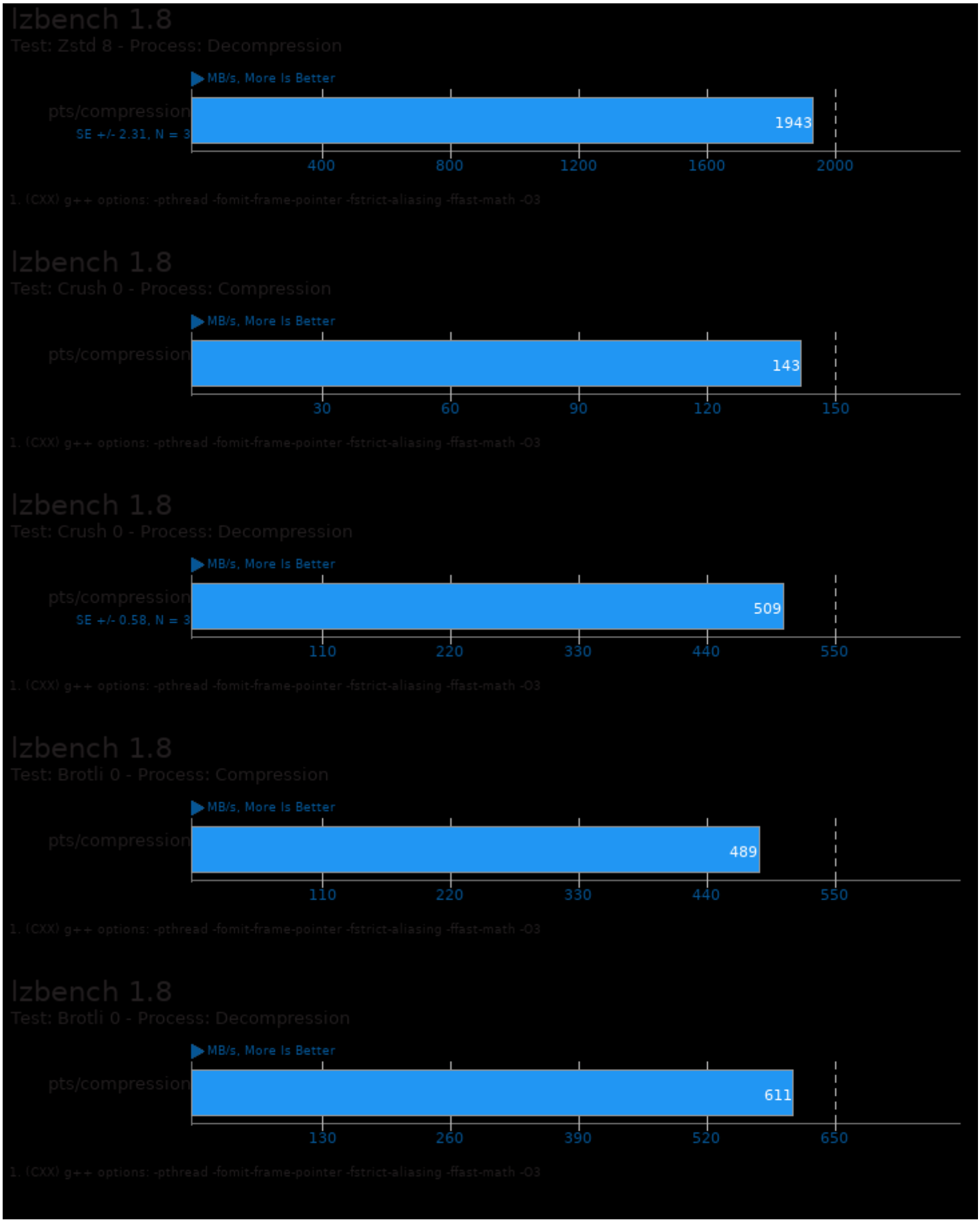
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Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	891.8
Standard Deviation	1.5%
Zstd Compression - 8, Long Mode - D.S (MB/s)	4272
Standard Deviation	0.4%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	38.7
Standard Deviation	6.5%
Zstd Compression - 19, Long Mode - D.S (MB/s)	3514
Standard Deviation	0.3%
Parallel BZIP2 Compression - F.1.0.R.a.m.i.C (sec)	2.221
Standard Deviation	1.5%
Gzip Compression - L.S.T.A.T.t.g (sec)	39.143
Standard Deviation	1.2%
XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	23.702
Standard Deviation	4%
System GZIP Decompression (sec)	3.161
Standard Deviation	0.6%
System XZ Decompression (sec)	3.326
Standard Deviation	0%
System ZLIB Decompression (ms)	1735
Standard Deviation	0.4%
RAR Compression - L.S.T.A.T.R (sec)	103.099
Standard Deviation	14.1%

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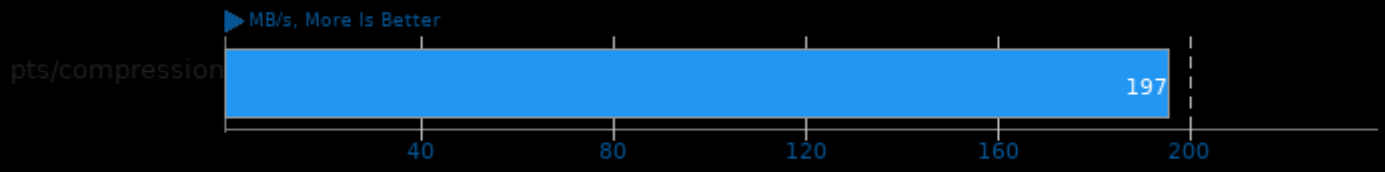


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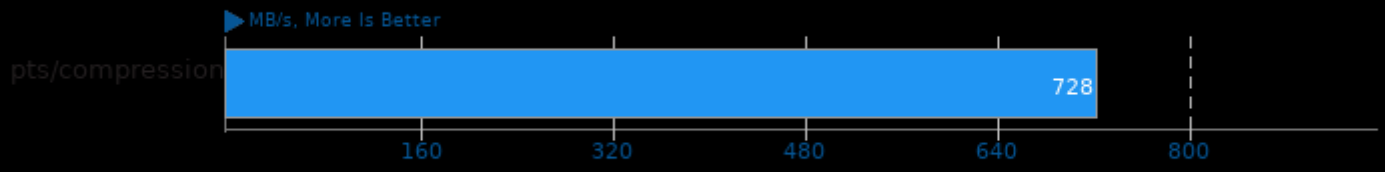
pts/compression1

lzbench 1.8
Test: Brotli 2 - Process: Compression



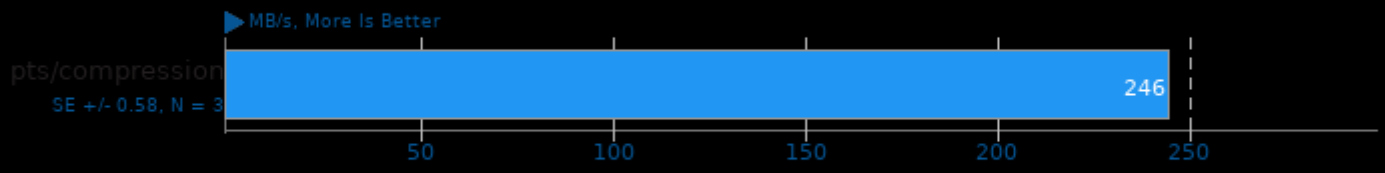
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

lzbench 1.8
Test: Brotli 2 - Process: Decompression



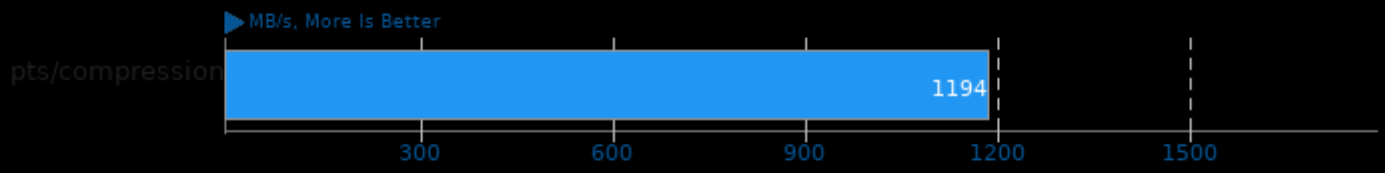
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

lzbench 1.8
Test: Libdeflate 1 - Process: Compression



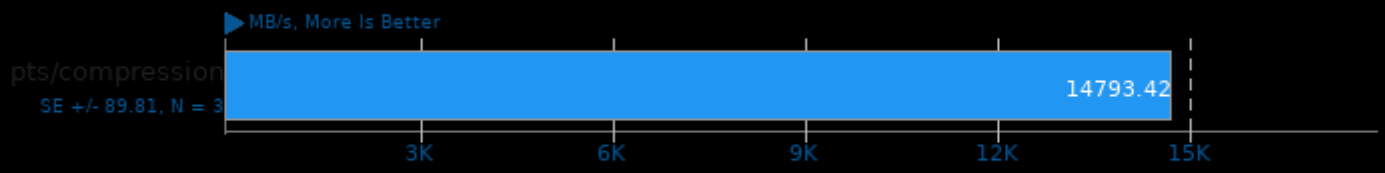
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

lzbench 1.8
Test: Libdeflate 1 - Process: Decompression



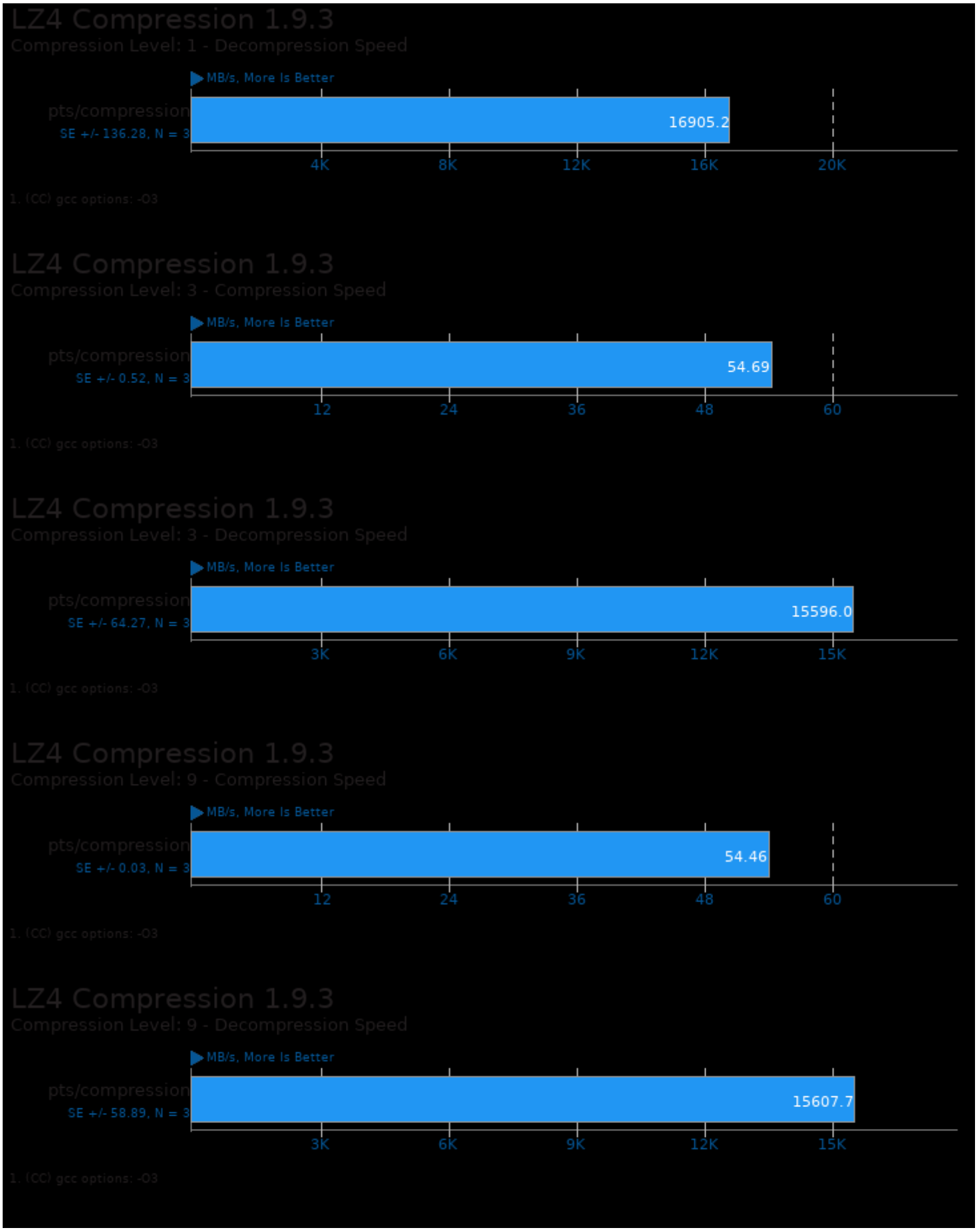
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

LZ4 Compression 1.9.3
Compression Level: 1 - Compression Speed

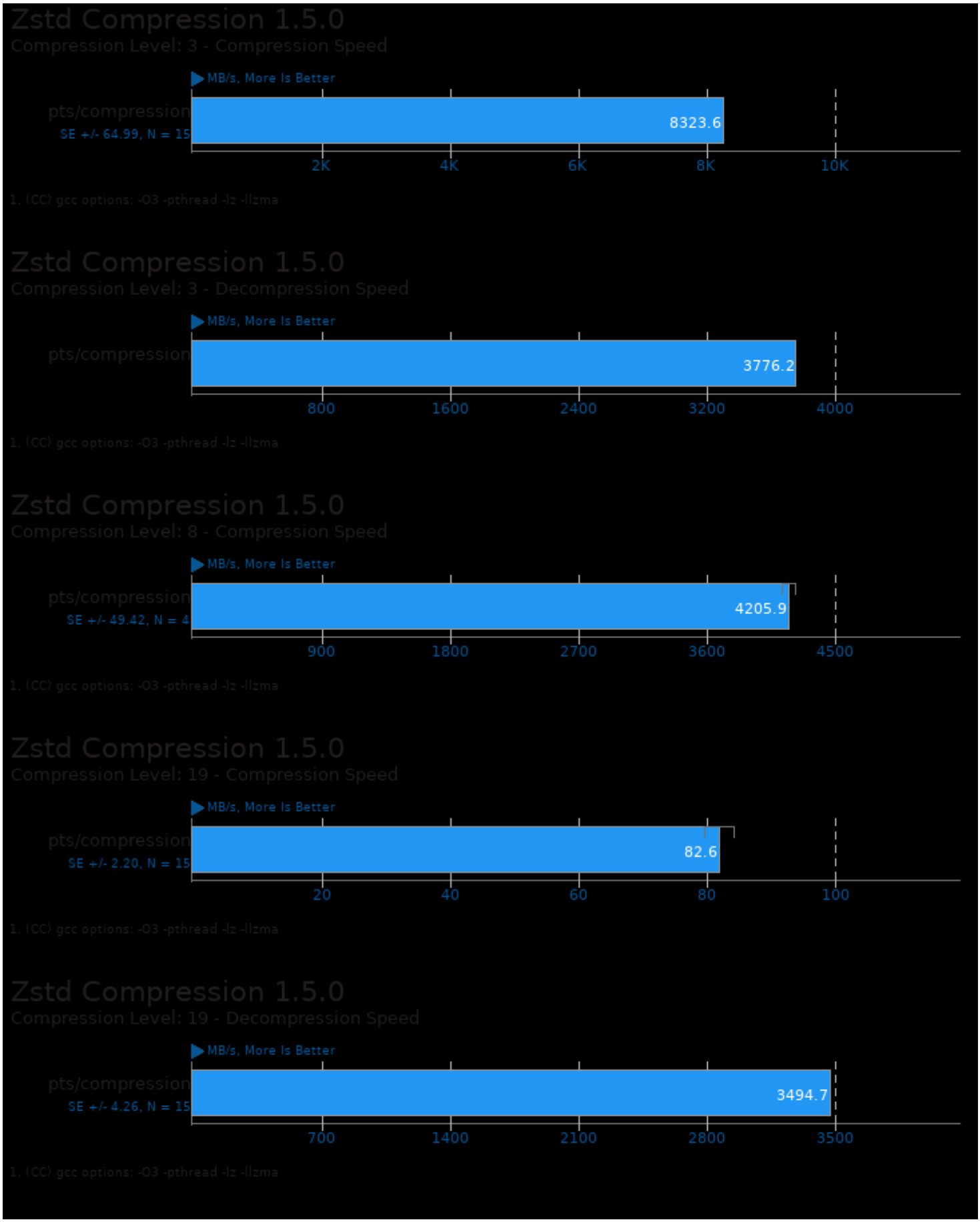


1. (CC) gcc options: -O3

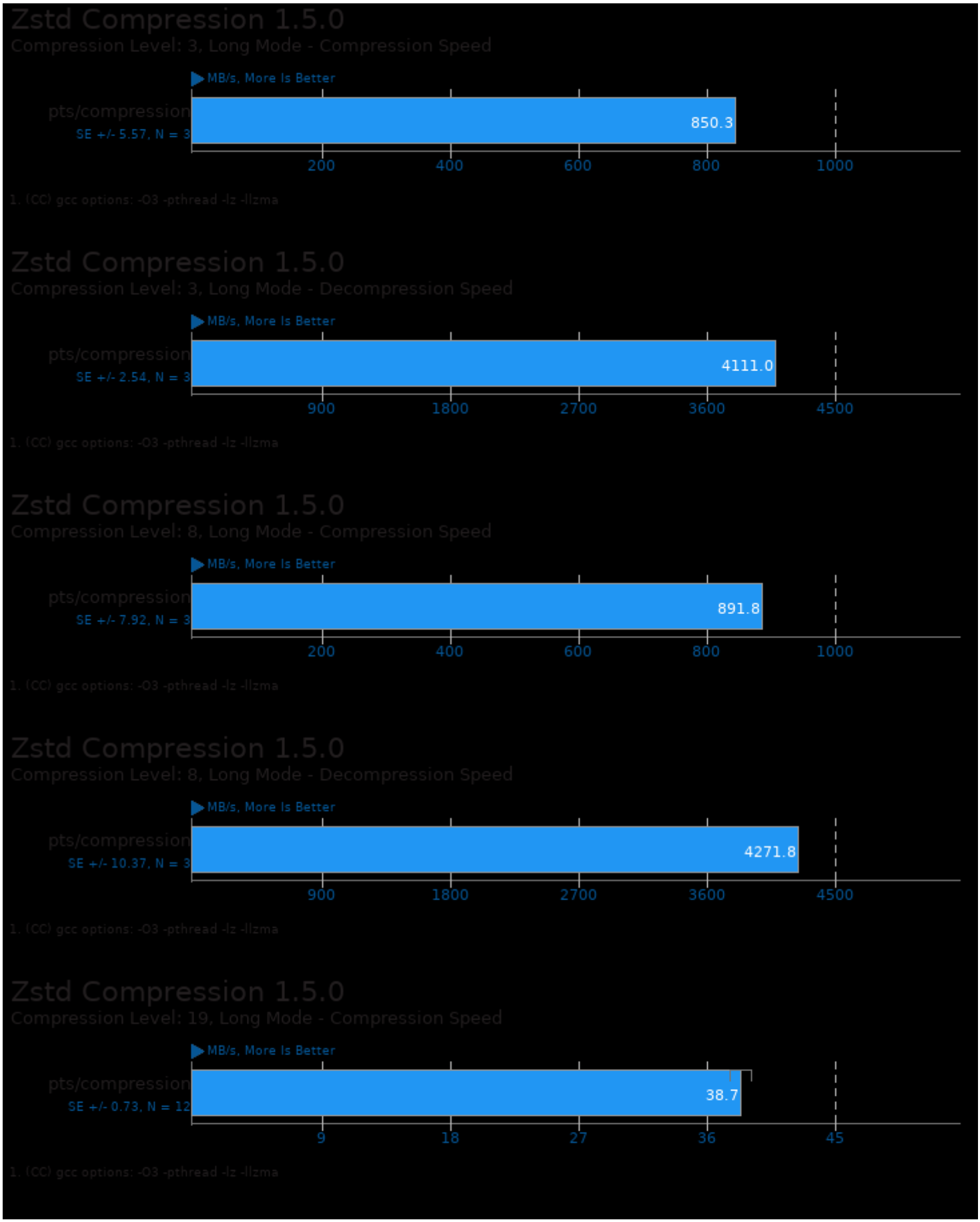
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pts/compression1



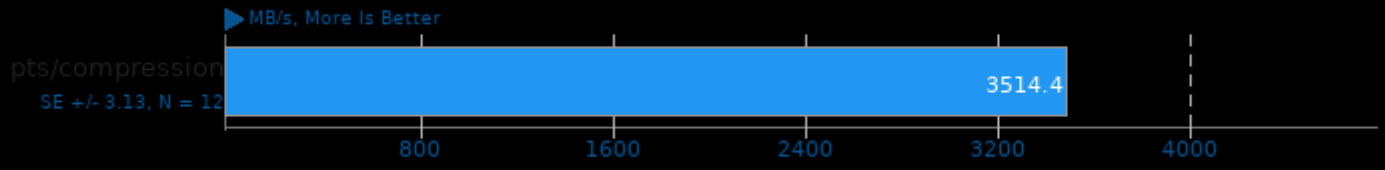
pts/compression1



pts/compression1

Zstd Compression 1.5.0

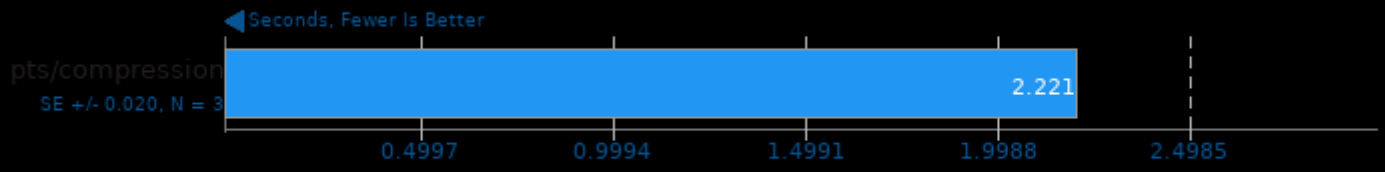
Compression Level: 19, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -llzma

Parallel BZIP2 Compression 1.1.13

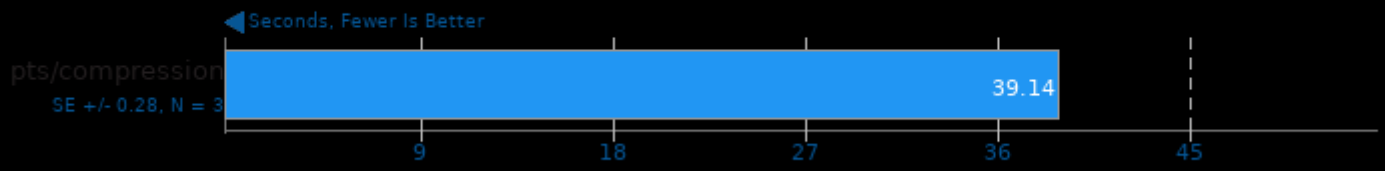
FreeBSD-13.0-RELEASE-amd64-memstick.img Compression



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

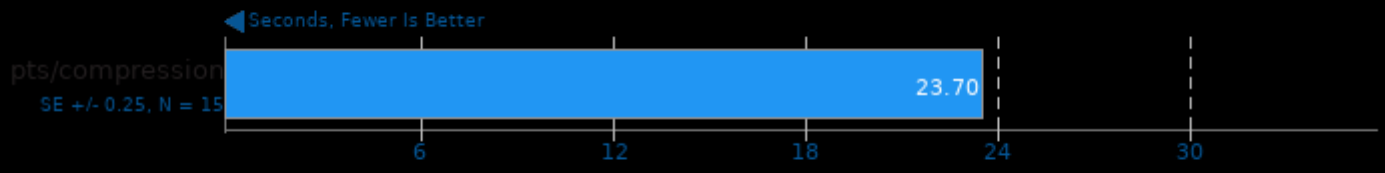
Gzip Compression

Linux Source Tree Archiving To .tar.gz



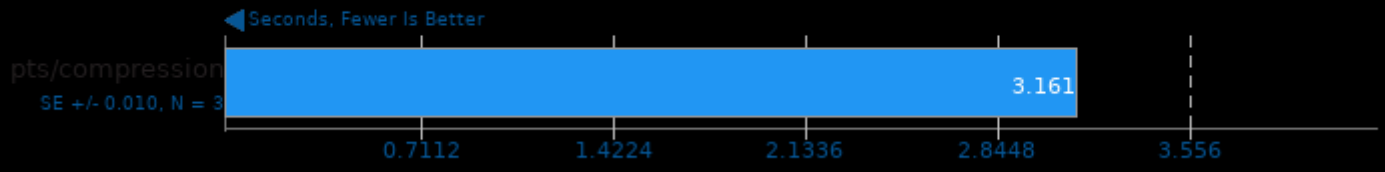
XZ Compression 5.2.4

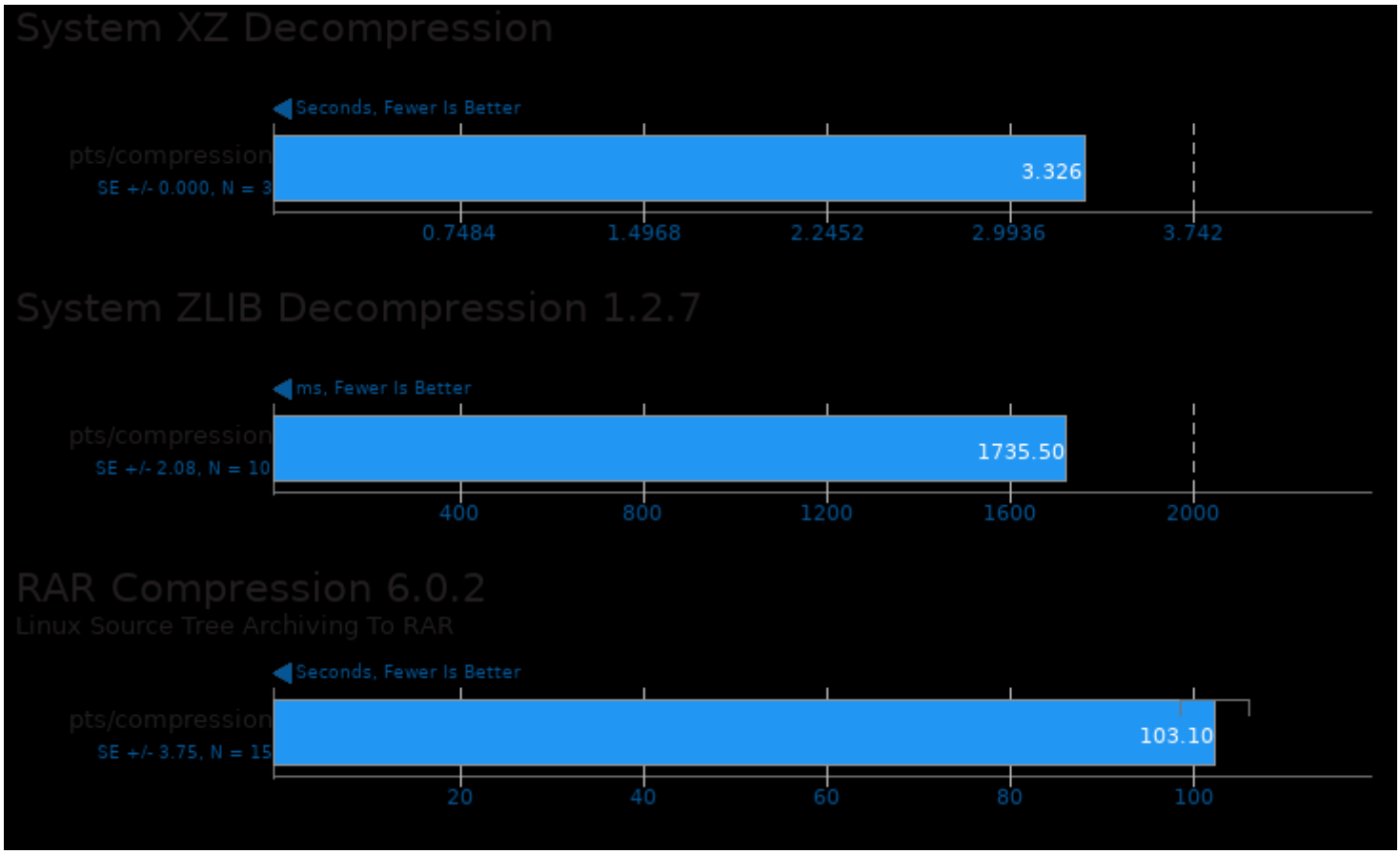
Compressing ubuntu-16.04.3-server-i386.img, Compression Level 9



1. (CC) gcc options: -pthread -fvisibility=hidden -O2

System GZIP Decompression





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