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-zstd

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Test Systems:

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Processor: Phytium D2000/8 E8C @ 2.30GHz (8 Cores), Motherboard: GreatWall GW-001Y1A-FTH v1.0 (KunLun BIOS V4.0 BIOS), Memory: 8GB, Disk: 512GB Western Digital PC SN530 SDBPNPZ-512G + 15GB DataTraveler 2.0, Graphics: AMD Caicos 2GB, Audio: Realtek ALC269VB

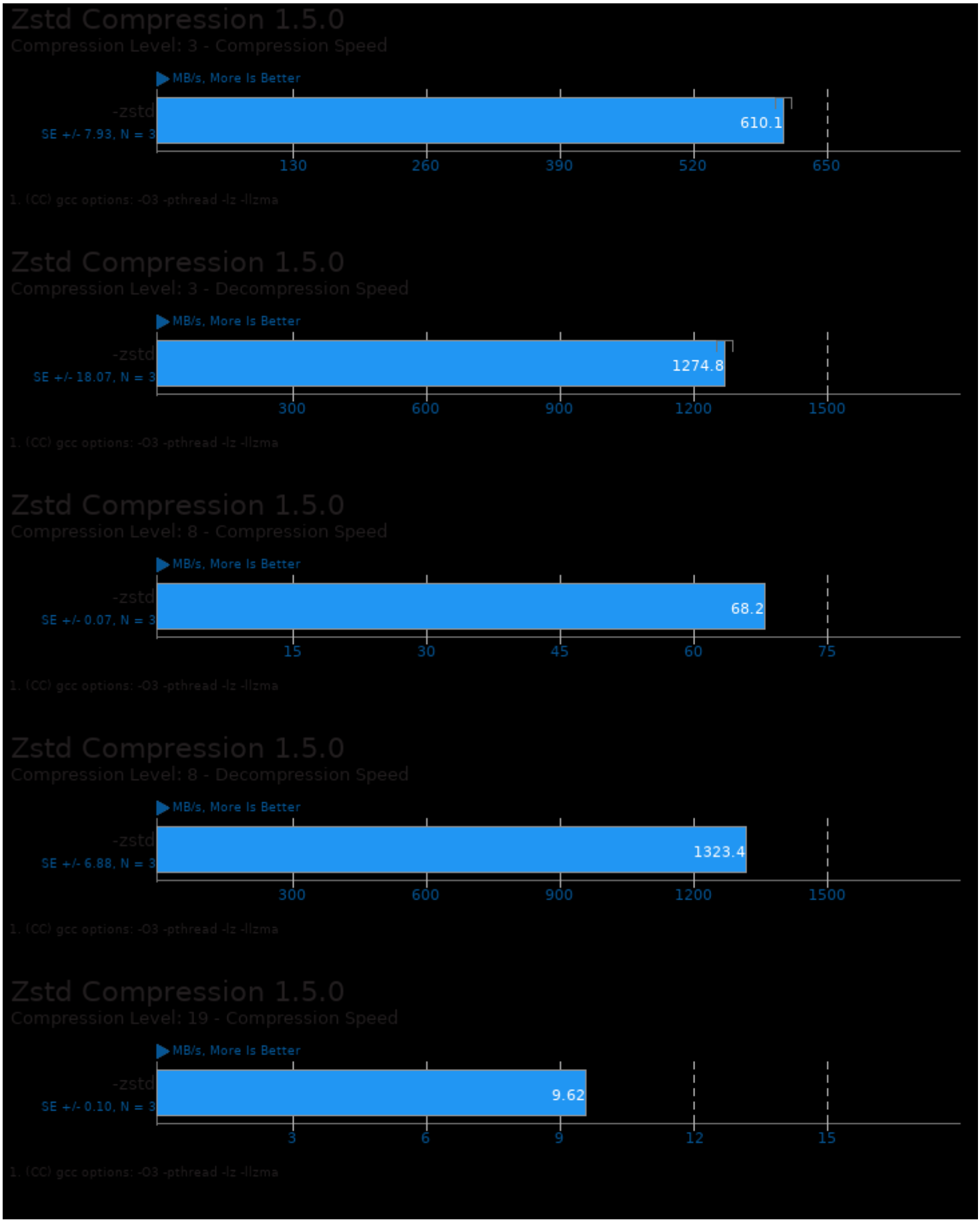
OS: Kylin v10, Kernel: 5.4.18-23-generic (aarch64), Display Server: X Server 1.20.8, OpenGL: 3.3 Mesa 20.0.8 (LLVM 9.0.1), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

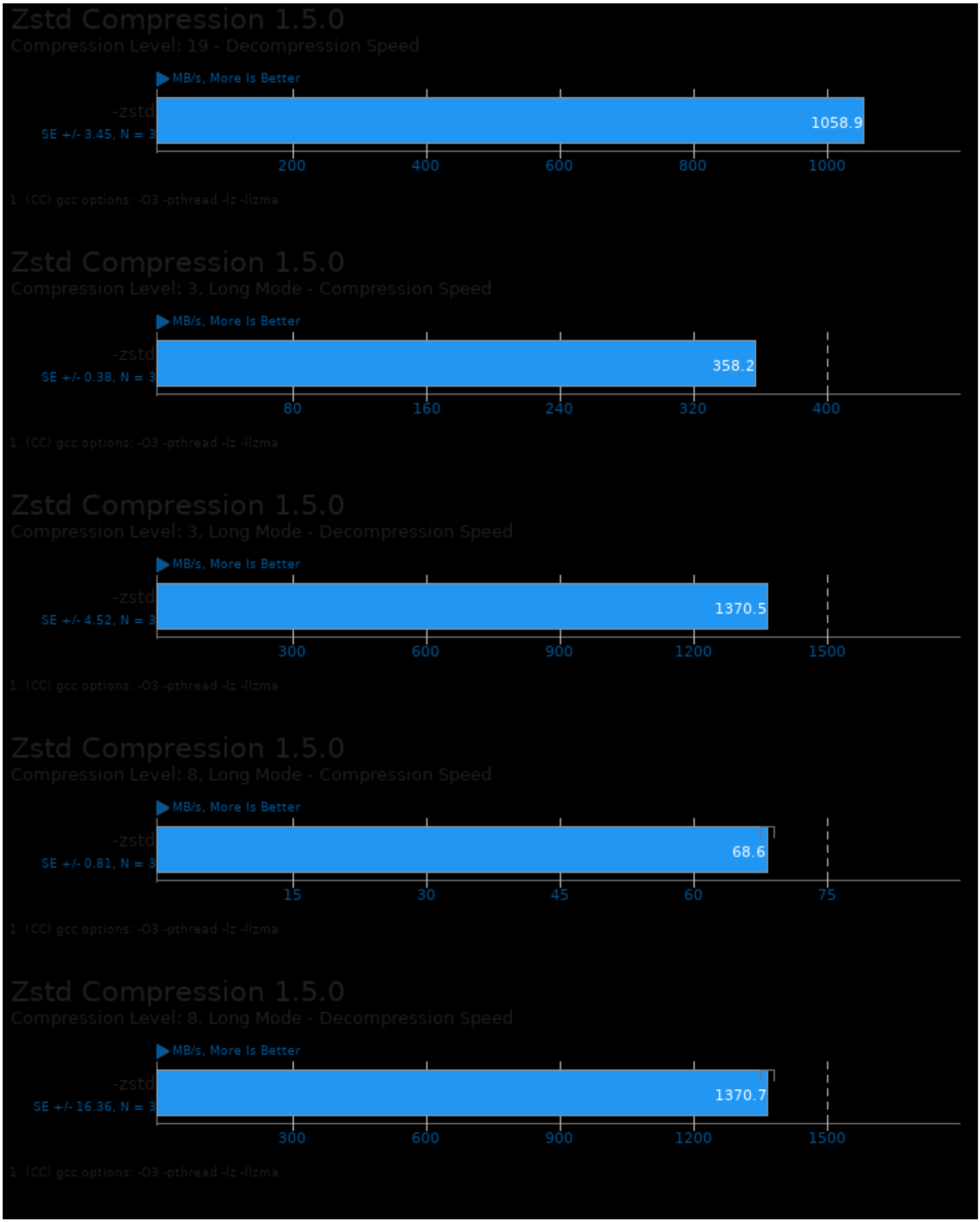
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: scpi-cpufreq performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of

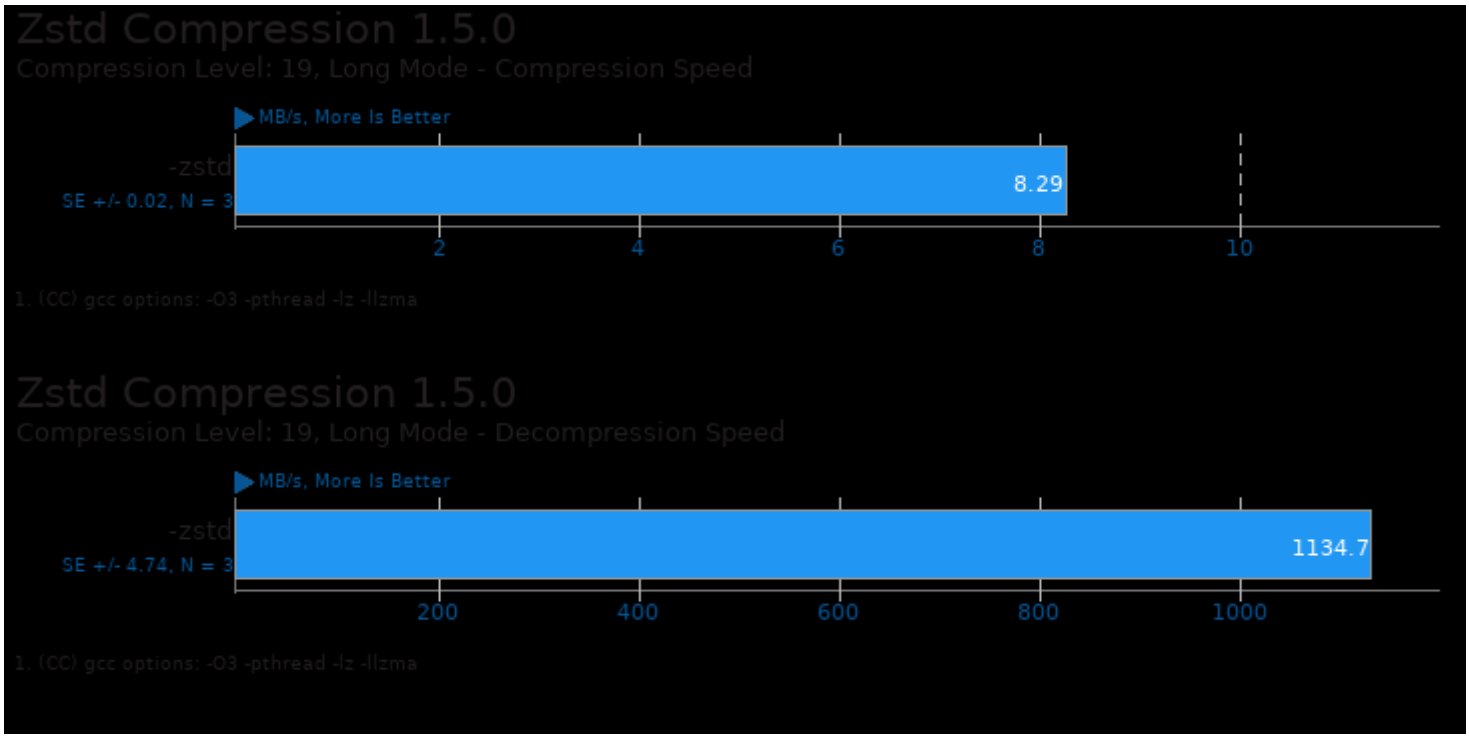
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__user pointer sanitization + spectre_v2: Vulnerable + tsx_async_abort: Not affected

	-zstd
Zstd Compression - 3 - Compression Speed (MB/s)	610.1
Standard Deviation	2.3%
Zstd Compression - 3 - D.S (MB/s)	1275
Standard Deviation	2.5%
Zstd Compression - 8 - Compression Speed (MB/s)	68.2
Standard Deviation	0.2%
Zstd Compression - 8 - D.S (MB/s)	1323
Standard Deviation	0.9%
Zstd Compression - 19 - Compression Speed (MB/s)	9.62
Standard Deviation	1.8%
Zstd Compression - 19 - D.S (MB/s)	1059
Standard Deviation	0.6%
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	358.2
Standard Deviation	0.2%
Zstd Compression - 3, Long Mode - D.S (MB/s)	1371
Standard Deviation	0.6%
Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	68.6
Standard Deviation	2%
Zstd Compression - 8, Long Mode - D.S (MB/s)	1371
Standard Deviation	2.1%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	8.29
Standard Deviation	0.5%
Zstd Compression - 19, Long Mode - D.S (MB/s)	1135
Standard Deviation	0.7%


Zstd Compression 1.5.0
Compression Level: 3 - Compression Speed
MB/s, More Is Better
-zstd
SE +/- 7.93, N = 3
610.1
130
260
390
520
650
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 3 - Decompression Speed
MB/s, More Is Better
-zstd
SE +/- 18.07, N = 3
1274.8
300
600
900
1200
1500
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 8 - Compression Speed
MB/s, More Is Better
-zstd
SE +/- 0.07, N = 3
68.2
15
30
45
60
75
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 8 - Decompression Speed
MB/s, More Is Better
-zstd
SE +/- 6.88, N = 3
1323.4
300
600
900
1200
1500
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 19 - Compression Speed
MB/s, More Is Better
-zstd
SE +/- 0.10, N = 3
9.62
3
6
9
12
15
1. (CC) gcc options: -O3 -pthread -lz -llzma


Zstd Compression 1.5.0
Compression Level: 19 - Decompression Speed
MB/s, More Is Better
-zstd
SE +/- 3.45, N = 3
1058.9
200
400
600
800
1000
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 3, Long Mode - Compression Speed
MB/s, More Is Better
-zstd
SE +/- 0.38, N = 3
358.2
80
160
240
320
400
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 3, Long Mode - Decompression Speed
MB/s, More Is Better
-zstd
SE +/- 4.52, N = 3
1370.5
300
600
900
1200
1500
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 8, Long Mode - Compression Speed
MB/s, More Is Better
-zstd
SE +/- 0.81, N = 3
68.6
15
30
45
60
75
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 8, Long Mode - Decompression Speed
MB/s, More Is Better
-zstd
SE +/- 16.36, N = 3
1370.7
300
600
900
1200
1500
1. (CC) gcc options: -O3 -pthread -lz -llzma



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 22:21.