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pi4-8-alb-compression

ARMv8 Cortex-A72 testing with a BCM2835 Raspberry Pi 4 Model B Rev 1.4 and vc4drmfb on Ubuntu 20.10 via the Phoronix Test Suite.

Test Systems:

pi4-8-compression

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: BCM2835 Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 240GB 00SSD1, Graphics: vc4drmfb, Monitor: Q2770

OS: Ubuntu 20.10, Kernel: 5.8.0-1010-raspi (aarch64), Desktop: KDE Plasma, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 2560x1440

Kernel Notes: snd_bcm2835.enable_compat_alsa=0 snd_bcm2835.enable_hdmi=1 snd_bcm2835.enable_headphones=1
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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --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: cpufreq-dt ondemand

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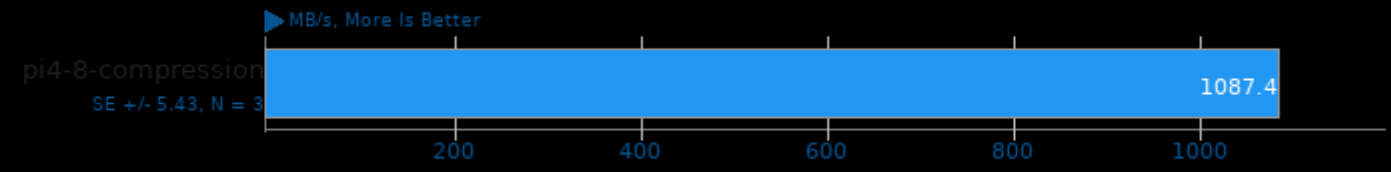
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbds: Not affected + tsx_async_abort: Not affected

	pi4-8-compression
C-Blosc - blosclz (MB/s)	1087
Standard Deviation	0.9%
LZ4 Compression - 1 - Compression Speed (MB/s)	1513
Standard Deviation	7.2%
LZ4 Compression - 1 - D.S (MB/s)	2419
Standard Deviation	5.7%
LZ4 Compression - 3 - Compression Speed (MB/s)	12.85
Standard Deviation	0.1%
LZ4 Compression - 3 - D.S (MB/s)	1691
Standard Deviation	0.3%
LZ4 Compression - 9 - Compression Speed (MB/s)	12.25
Standard Deviation	0.2%
LZ4 Compression - 9 - D.S (MB/s)	1694
Standard Deviation	1.3%
Zstd Compression - 3 (MB/s)	202.6
Standard Deviation	3%
Zstd Compression - 19 (MB/s)	2.21
Standard Deviation	0.3%
7-Zip Compression - C.S.T (MIPS)	3488
Standard Deviation	0.1%
Parallel BZIP2 Compression - 2.F.C (sec)	80.158
Standard Deviation	1.4%
Gzip Compression - L.S.T.A.T.t.g (sec)	161.482
Standard Deviation	2.8%
XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	411.825
Standard Deviation	0.3%
System GZIP Decompression (sec)	9.703
Standard Deviation	2.9%
System XZ Decompression (sec)	11.140
Standard Deviation	0.7%
System ZLIB Decompression (ms)	5468
Standard Deviation	1.9%

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C-Blosc 2.0 Beta 5

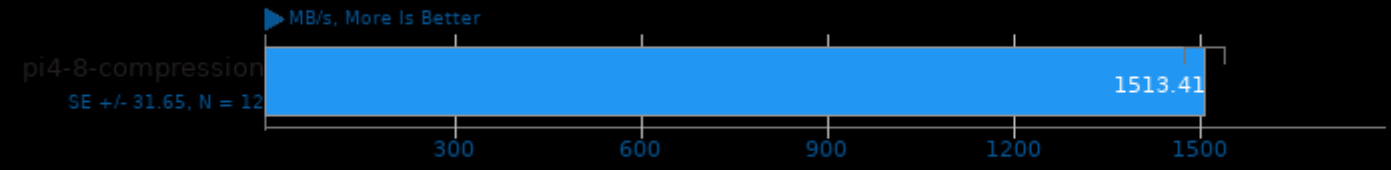
Compressor: blosclz



1. (CXX) g++ options: -rdynamic

LZ4 Compression 1.9.3

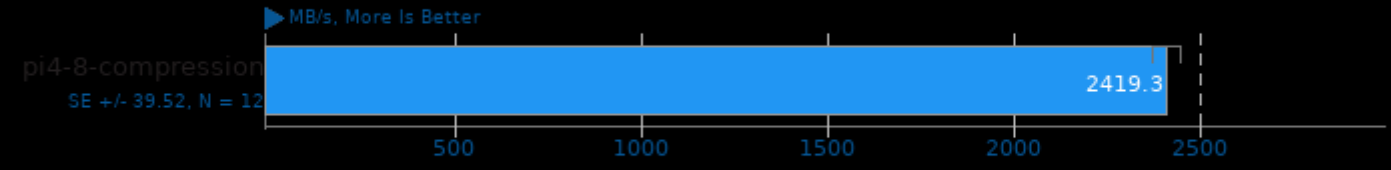
Compression Level: 1 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

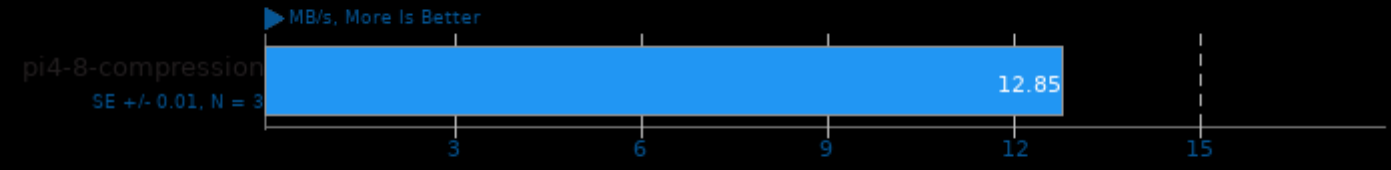
Compression Level: 1 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

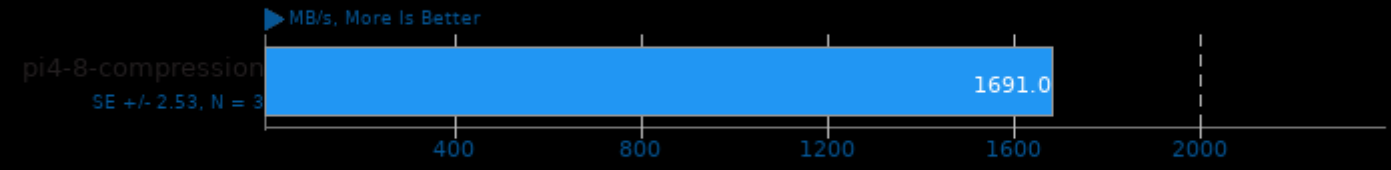
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

Compression Level: 3 - Decompression Speed

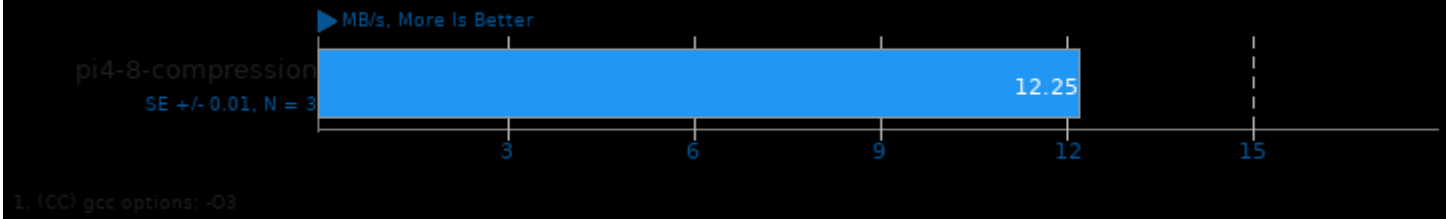


1. (CC) gcc options: -O3

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LZ4 Compression 1.9.3

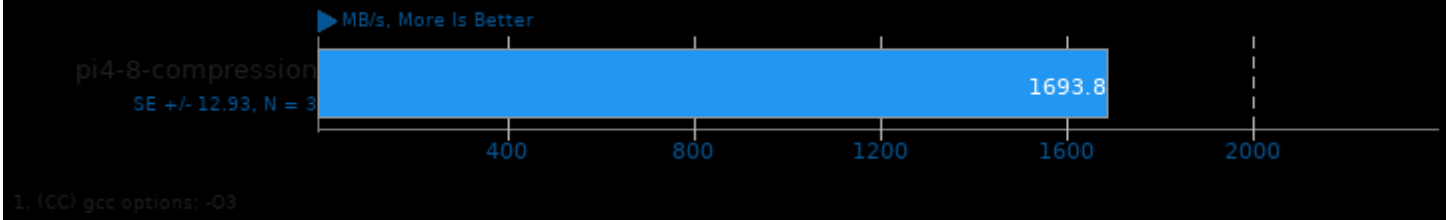
Compression Level: 9 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

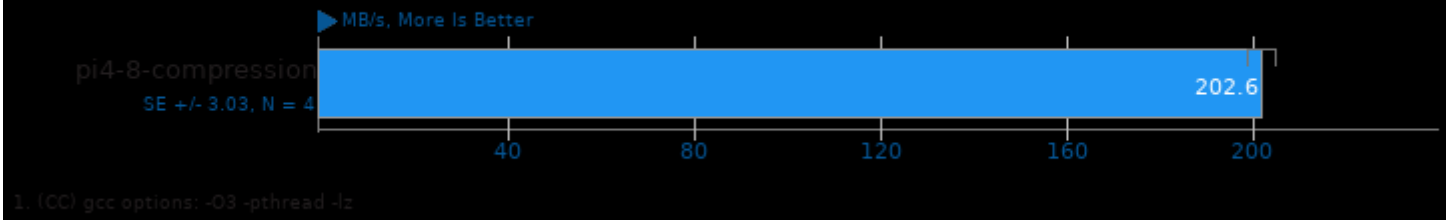
Compression Level: 9 - Decompression Speed



1. (CC) gcc options: -O3

Zstd Compression 1.4.5

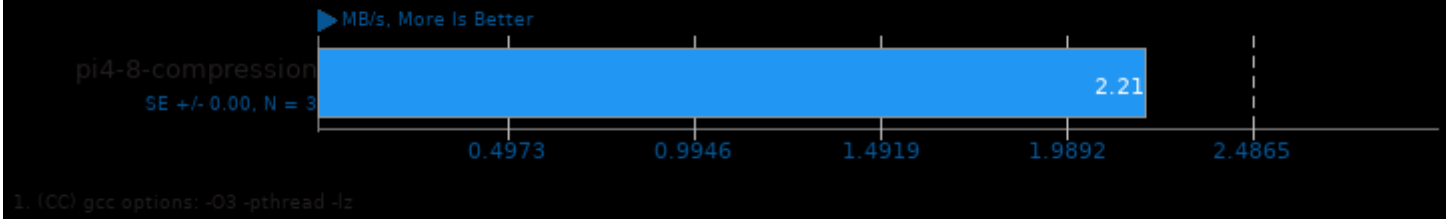
Compression Level: 3



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

Zstd Compression 1.4.5

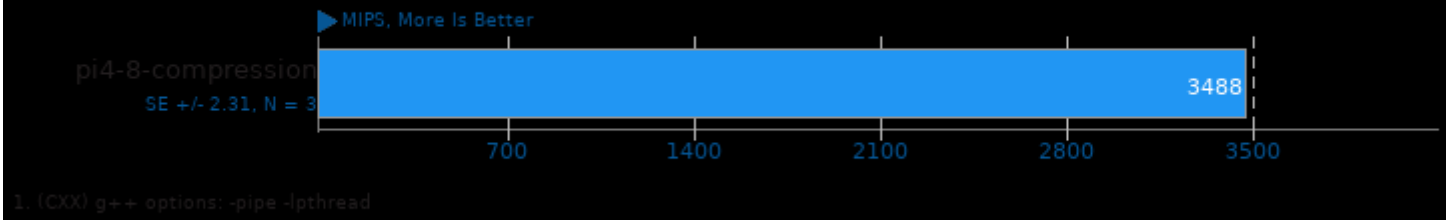
Compression Level: 19



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

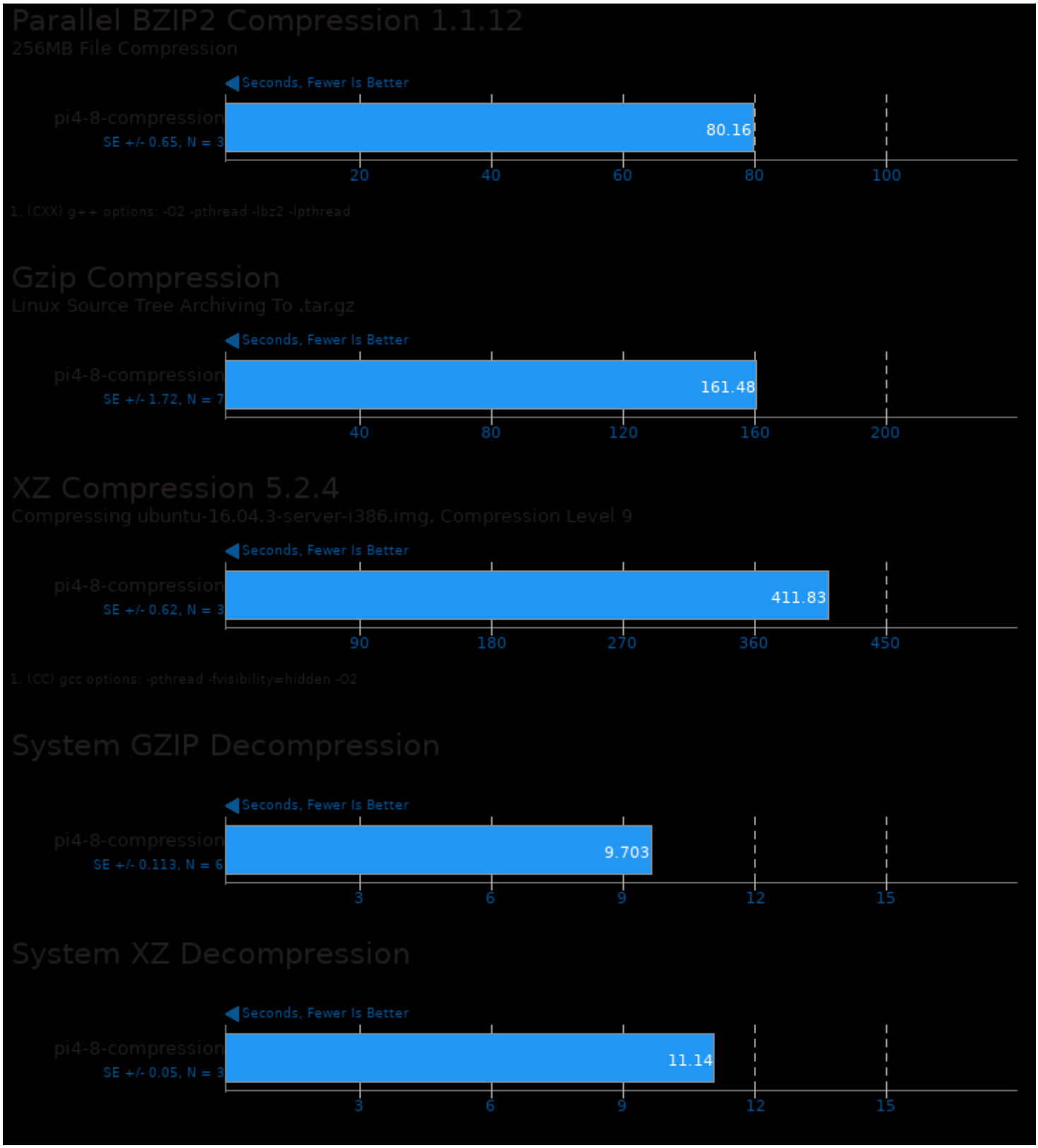
7-Zip Compression 16.02

Compress Speed Test

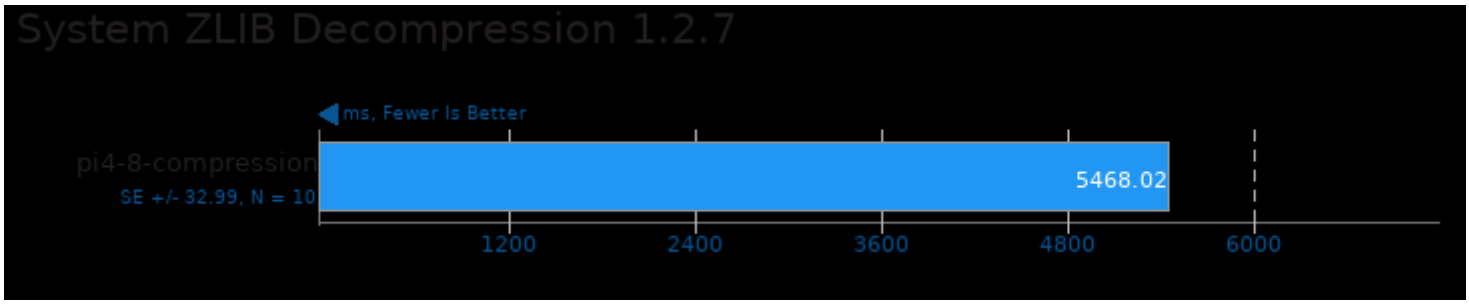


1. (CXX) g++ options: -pipe -lpthread

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