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Compression20201008

AMD EPYC 7302P 16-Core testing with a Supermicro H11SSL-i v2.00 (2.1 BIOS) and ASPEED on CentOS 7.8.2003 via the Phoronix Test Suite.

Test Systems:

AMD EPYC 7302P 16-Core

Processor: AMD EPYC 7302P 16-Core @ 3.00GHz (16 Cores / 32 Threads), Motherboard: Supermicro H11SSL-i v2.00 (2.1 BIOS), Chipset: AMD Starship/Matisse, Memory: 4 x 64 GB DDR4-3200MT/s 36ASF8G72PZ-3G2E1, Disk: 2 x 1600GB SAMSUNG MZPLL1T6HAJQ-00005 + 2 x 960GB Micron_5300_MTFD + 4 x 10001GB HGST HUH721010AL, Graphics: ASPEED, Network: 2 x Mellanox MT27710 + 2 x Intel I210

OS: CentOS 7.8.2003, Kernel: 3.10.0-1127.19.1.el7.x86_64 (x86_64), Compiler: GCC 4.8.5 20150623, File-System: xfs, Screen Resolution: 1024x768

Processor Notes: Scaling Governor: acpi-cpufreq conservative - CPU Microcode: 0x8301034
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 Load fences usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full retpoline IBPB + srbds: Not

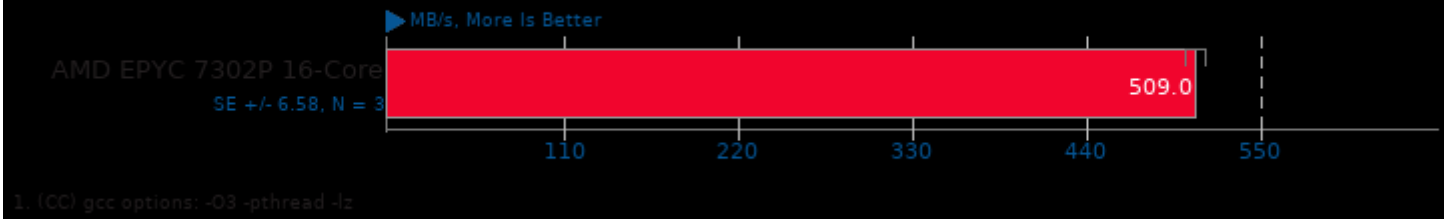
affected + tsx_async_abort: Not affected

	AMD EPYC 7302P 16-Core
Zstd Compression - 3 (MB/s)	509.0
Standard Deviation	2.2%
Zstd Compression - 19 (MB/s)	2.24
Standard Deviation	0%
7-Zip Compression - C.S.T (MIPS)	91118
Standard Deviation	1.3%
Parallel BZIP2 Compression - 2.F.C (sec)	2.183
Standard Deviation	0.4%
Gzip Compression - L.S.T.A.T.t.g (sec)	45.390
Standard Deviation	3.8%
XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	22.916
Standard Deviation	0.6%
System GZIP Decompression (sec)	3.909
Standard Deviation	0.8%
System XZ Decompression (sec)	4.656
Standard Deviation	0.1%
System ZLIB Decompression (ms)	2243
Standard Deviation	0.7%

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Zstd Compression 1.4.5

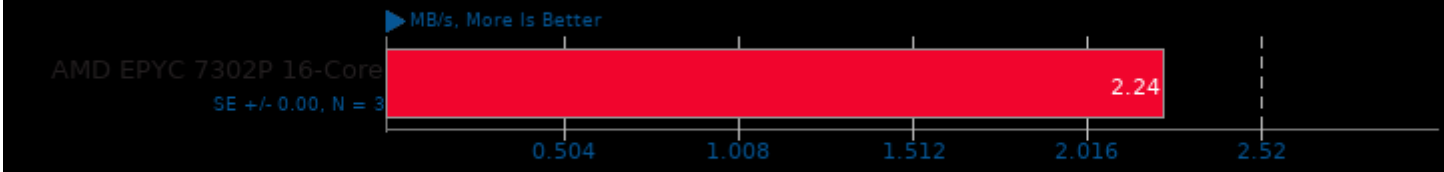
Compression Level: 3



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

Zstd Compression 1.4.5

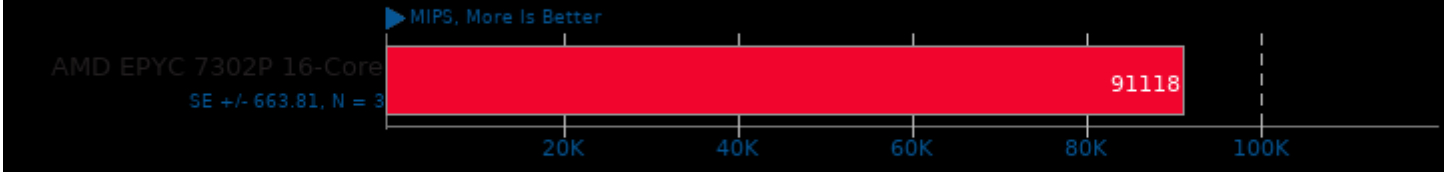
Compression Level: 19



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

7-Zip Compression 16.02

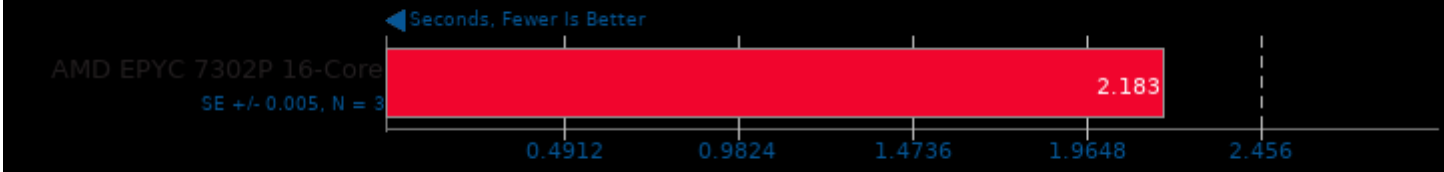
Compress Speed Test



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

Parallel BZIP2 Compression 1.1.12

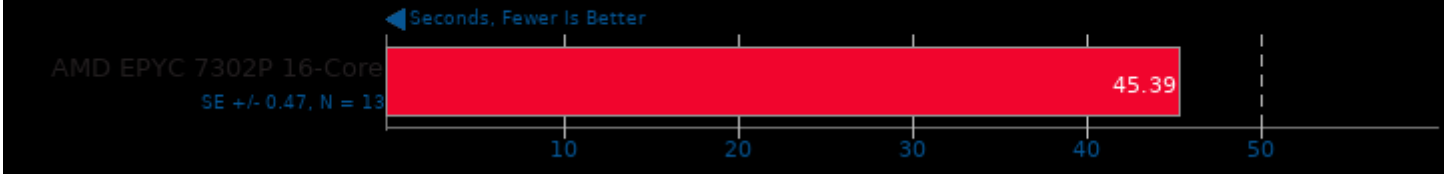
256MB File Compression



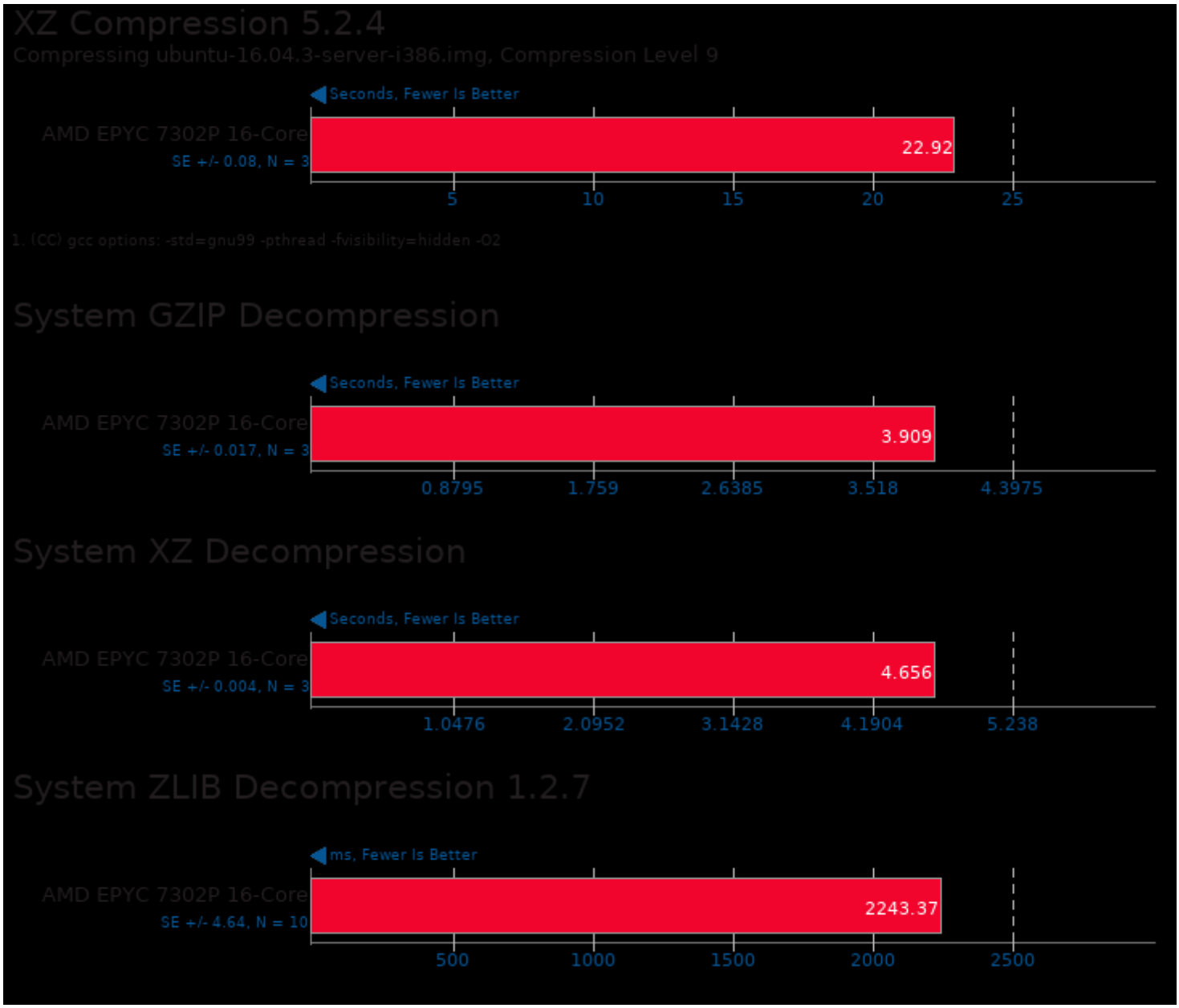
1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

Gzip Compression

Linux Source Tree Archiving To .tar.gz



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