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x61-compression

Intel Core 2 Duo T7500 testing with a LENOVO 7673Y3R (7NETC2WW 2.22 BIOS) and Intel Mobile GM965/GL960 IGP on Debian 10 via the Phoronix Test Suite.

Test Systems:

x61-compression

Processor: Intel Core 2 Duo T7500 @ 2.20GHz (2 Cores), Motherboard: LENOVO 7673Y3R (7NETC2WW 2.22 BIOS), Chipset: Intel Mobile PM965/GM965/GL960 + ICH8M-E, Memory: 2 x 2048 MB DDR2-667MT/s, Disk: 240GB INTEL SSD2SC240G1CS175, Graphics: Intel Mobile GM965/GL960 IGP, Audio: Analog Devices AD1984, Monitor: Q2770, Network: Intel 82566MM + Broadcom BCM4311 802.11b/g

OS: Debian 10, Kernel: 4.19.0-13-amd64 (x86_64), Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=i686-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-targets=all --enable-threads=posix --host=i686-linux-gnu

x61-compression

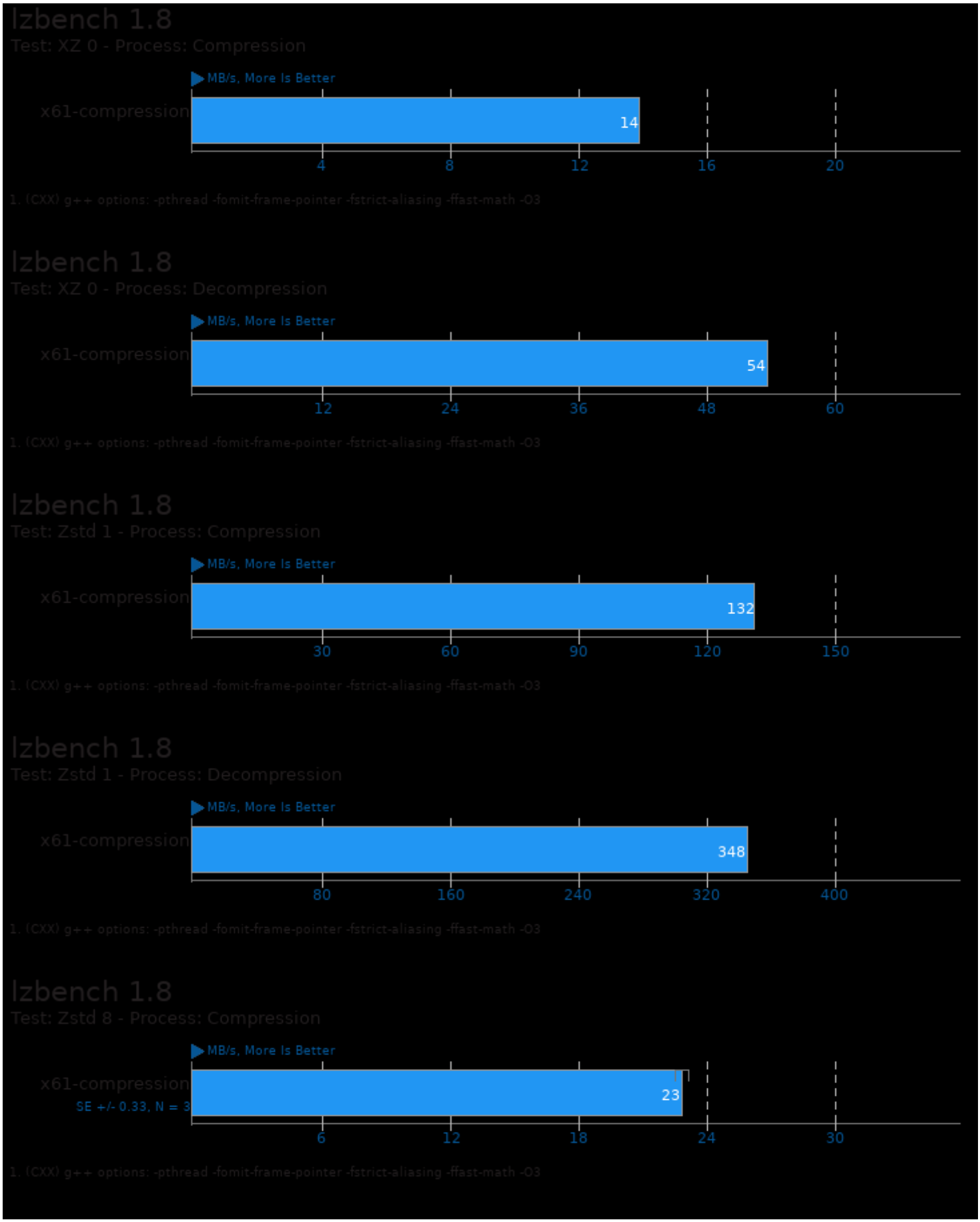
--program-prefix=i686-linux-gnu- --target=i686-linux-gnu --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0xba
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: EPT disabled + mds: Vulnerable: Clear buffers attempted no microcode; SMT disabled + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	x61-compression
lzbench - XZ 0 - Compression (MB/s)	14
lzbench - XZ 0 - Decompression (MB/s)	54
lzbench - Zstd 1 - Compression (MB/s)	132
lzbench - Zstd 1 - Decompression (MB/s)	348
lzbench - Zstd 8 - Compression (MB/s)	23
Standard Deviation	2.5%
lzbench - Zstd 8 - Decompression (MB/s)	373
lzbench - Crush 0 - Compression (MB/s)	32
Standard Deviation	1.8%
lzbench - Crush 0 - Decompression (MB/s)	209
lzbench - Brotli 0 - Compression (MB/s)	132
lzbench - Brotli 0 - Decompression (MB/s)	177
Standard Deviation	0.3%
lzbench - Brotli 2 - Compression (MB/s)	50
lzbench - Brotli 2 - Decompression (MB/s)	214
lzbench - Libdeflate 1 - Compression (MB/s)	33
lzbench - Libdeflate 1 - Decompression (MB/s)	347
Standard Deviation	0.2%
LZ4 Compression - 1 - Compression Speed (MB/s)	1839
Standard Deviation	0%
LZ4 Compression - 1 - D.S (MB/s)	1892
Standard Deviation	0%
LZ4 Compression - 3 - Compression Speed (MB/s)	19.86
Standard Deviation	30%
LZ4 Compression - 3 - D.S (MB/s)	1408
Standard Deviation	0.1%
LZ4 Compression - 9 - Compression Speed (MB/s)	22.37
Standard Deviation	0%
LZ4 Compression - 9 - D.S (MB/s)	1410
Standard Deviation	0.1%
Zstd Compression - 3 (MB/s)	329.7
Standard Deviation	28.1%
Zstd Compression - 19 (MB/s)	2.90
Standard Deviation	5.4%
7-Zip Compression - C.S.T (MIPS)	2940
Standard Deviation	30%
Parallel BZIP2 Compression - 2.F.C (sec)	71.931
Standard Deviation	40.9%
Gzip Compression - L.S.T.A.T.t.g (sec)	101.168
Standard Deviation	24.3%
XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	392.525
Standard Deviation	6.7%

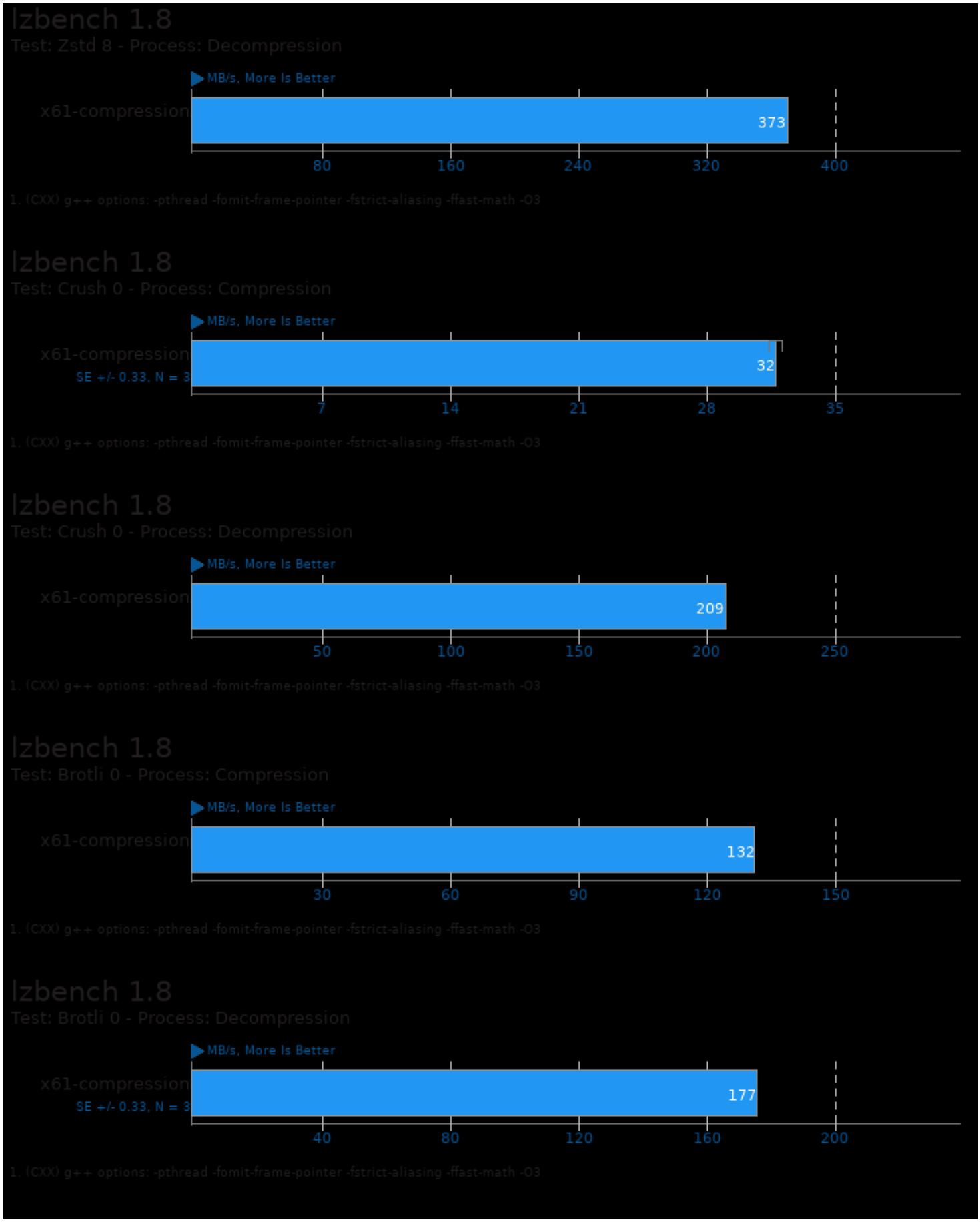
x61-compression

System GZIP Decompression (sec)	7.104
Standard Deviation	0.3%
System XZ Decompression (sec)	8.682
Standard Deviation	0.5%
System ZLIB Decompression (ms)	4716
Standard Deviation	0.6%

x61-compression

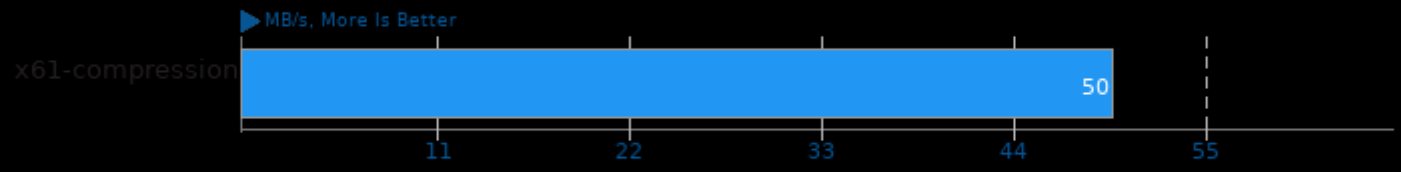


x61-compression



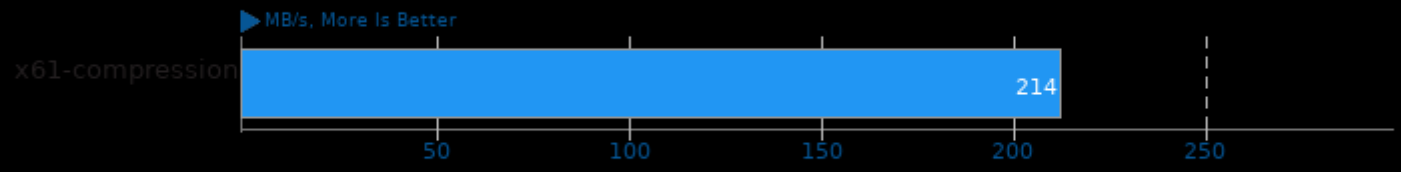
x61-compression

lzbench 1.8
Test: Brotli 2 - Process: Compression



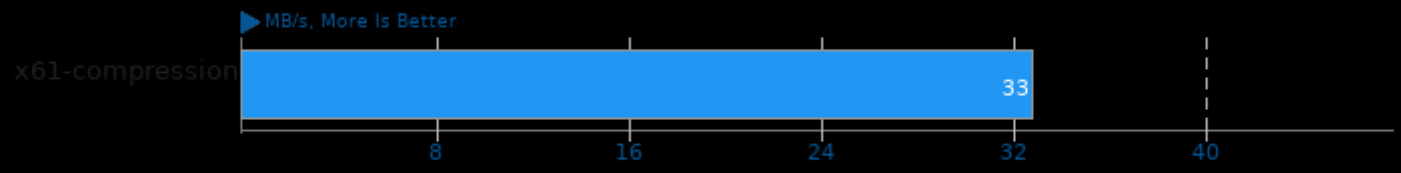
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

lzbench 1.8
Test: Brotli 2 - Process: Decompression



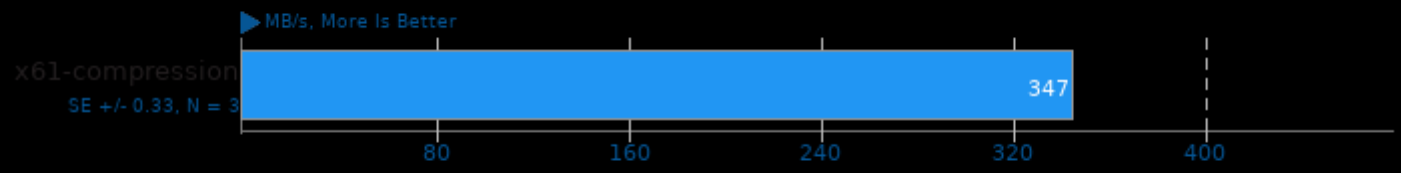
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

lzbench 1.8
Test: Libdeflate 1 - Process: Compression



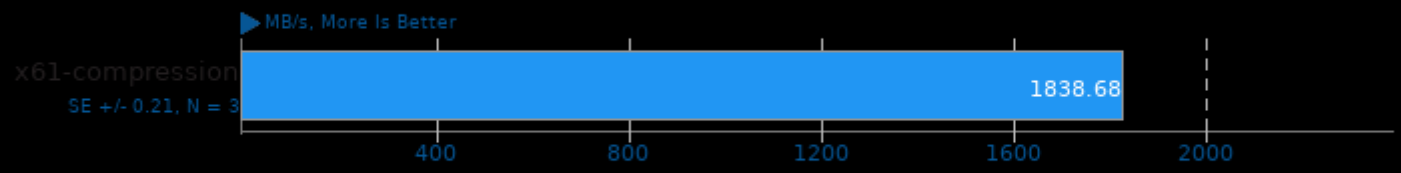
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

lzbench 1.8
Test: Libdeflate 1 - Process: Decompression



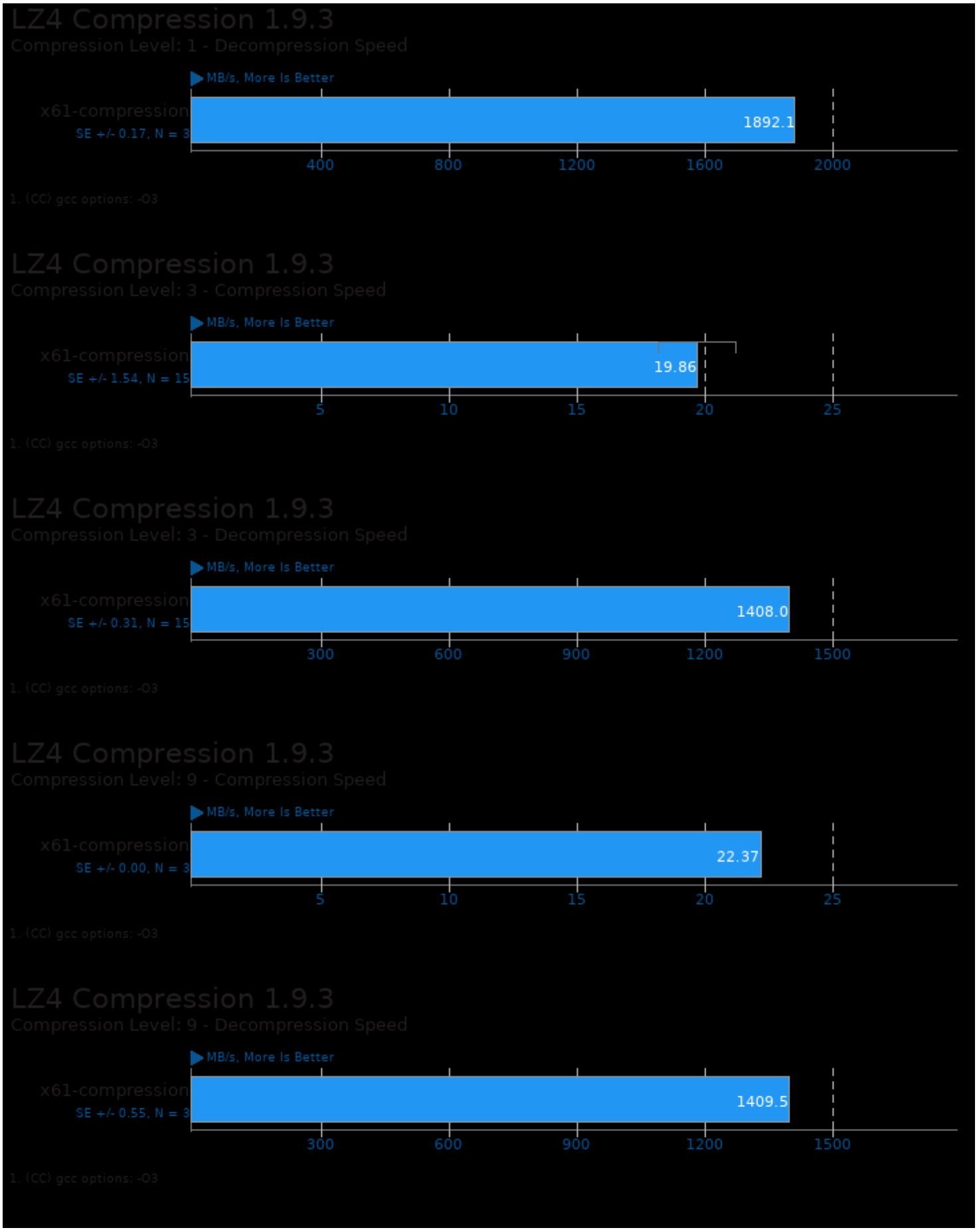
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

LZ4 Compression 1.9.3
Compression Level: 1 - Compression Speed



1. (CC) gcc options: -O3

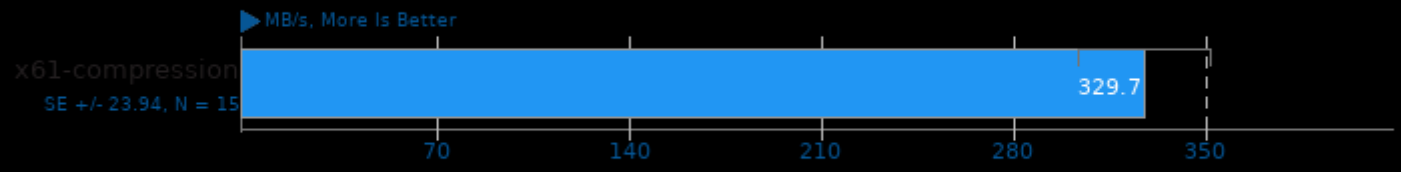
x61-compression



x61-compression

Zstd Compression 1.4.5

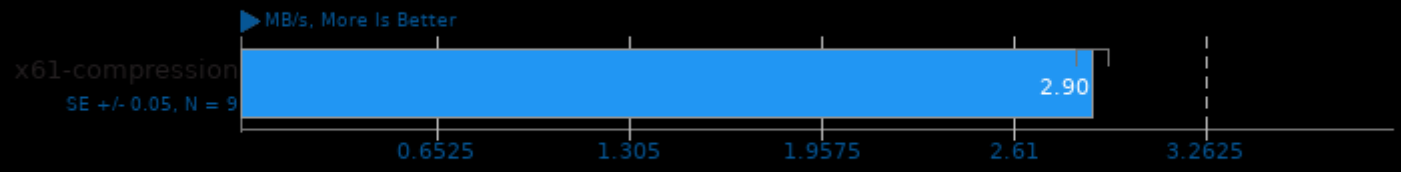
Compression Level: 3



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

Zstd Compression 1.4.5

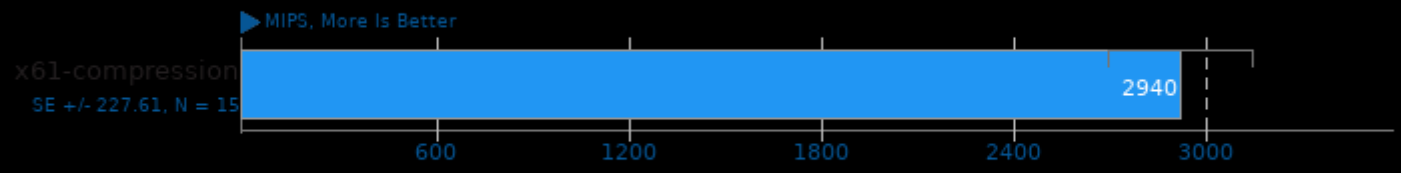
Compression Level: 19



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

7-Zip Compression 16.02

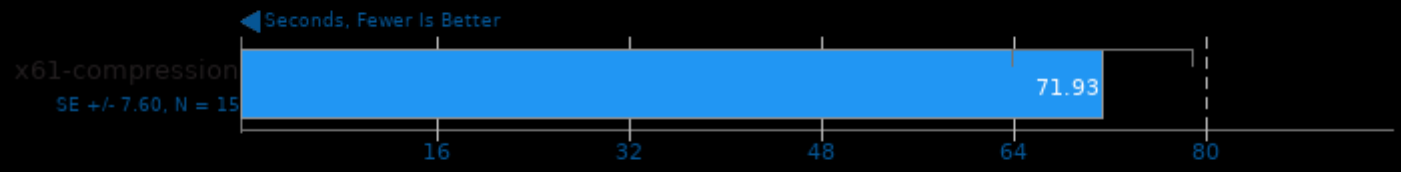
Compress Speed Test



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

Parallel BZIP2 Compression 1.1.12

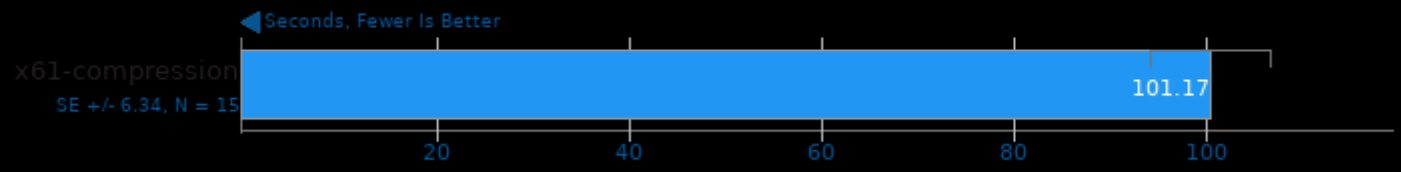
256MB File Compression



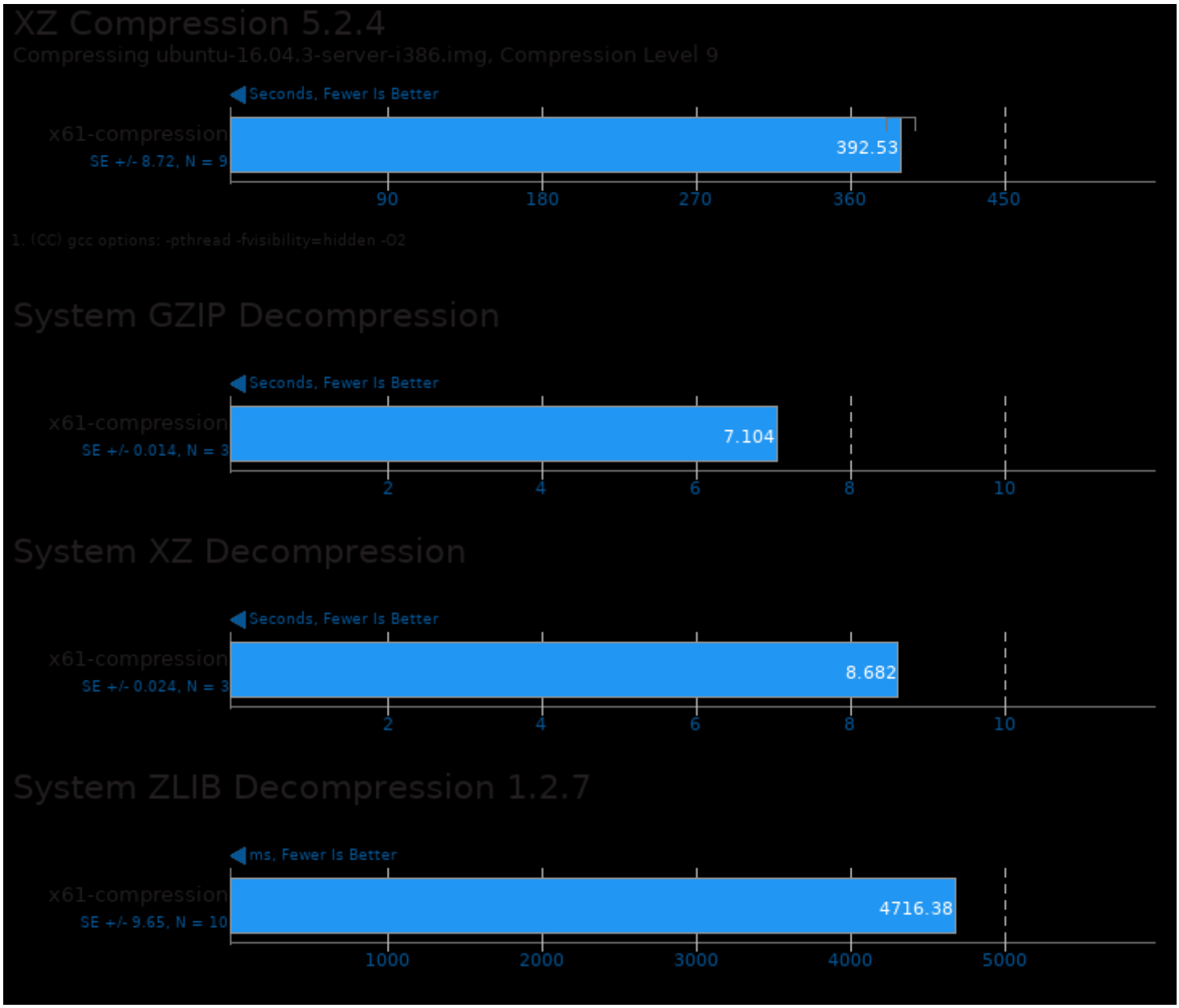
1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

Gzip Compression

Linux Source Tree Archiving To .tar.gz



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