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Icelake Crypt

Intel Core i7-1065G7 testing with a Dell 06CDVY (1.0.9 BIOS) and Intel Iris Plus G7 3GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

3 had the most wins, coming in first place for 47% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.006x the speed of the slowest (2). 1 was 0.995x the speed of 3 and 2 was 0.999x the speed of 1.

The results with the greatest spread from best to worst included:

FinanceBench (Benchmark: Repo OpenMP) at 1.024x
FinanceBench (Benchmark: Bonds OpenMP) at 1.022x
lzbench (Test: Zstd 8 - Process: Decompression) at 1.021x
lzbench (Test: Crush 0 - Process: Compression) at 1.02x
lzbench (Test: Brotli 0 - Process: Decompression) at 1.013x
Cython Benchmark (Test: N-Queens) at 1.013x
lzbench (Test: Zstd 1 - Process: Decompression) at 1.011x
lzbench (Test: Brotli 2 - Process: Decompression) at 1.011x
lzbench (Test: Zstd 8 - Process: Compression) at 1.01x

lzbench (Test: Crush 0 - Process: Decompression) at 1.004x.

Test Systems:

1

2

3

Processor: Intel Core i7-1065G7 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Dell 06CDVY (1.0.9 BIOS), Chipset: Intel Device 34ef, Memory: 16GB, Disk: Toshiba KBG40ZPZ512G NVMe 512GB, Graphics: Intel Iris Plus G7 3GB (1100MHz), Audio: Realtek ALC289, Network: Intel Killer Wi-Fi 6 AX1650i 160MHz

OS: Ubuntu 20.10, Kernel: 5.8.0-38-generic (x86_64), Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 4.6 Mesa 20.2.1, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1200

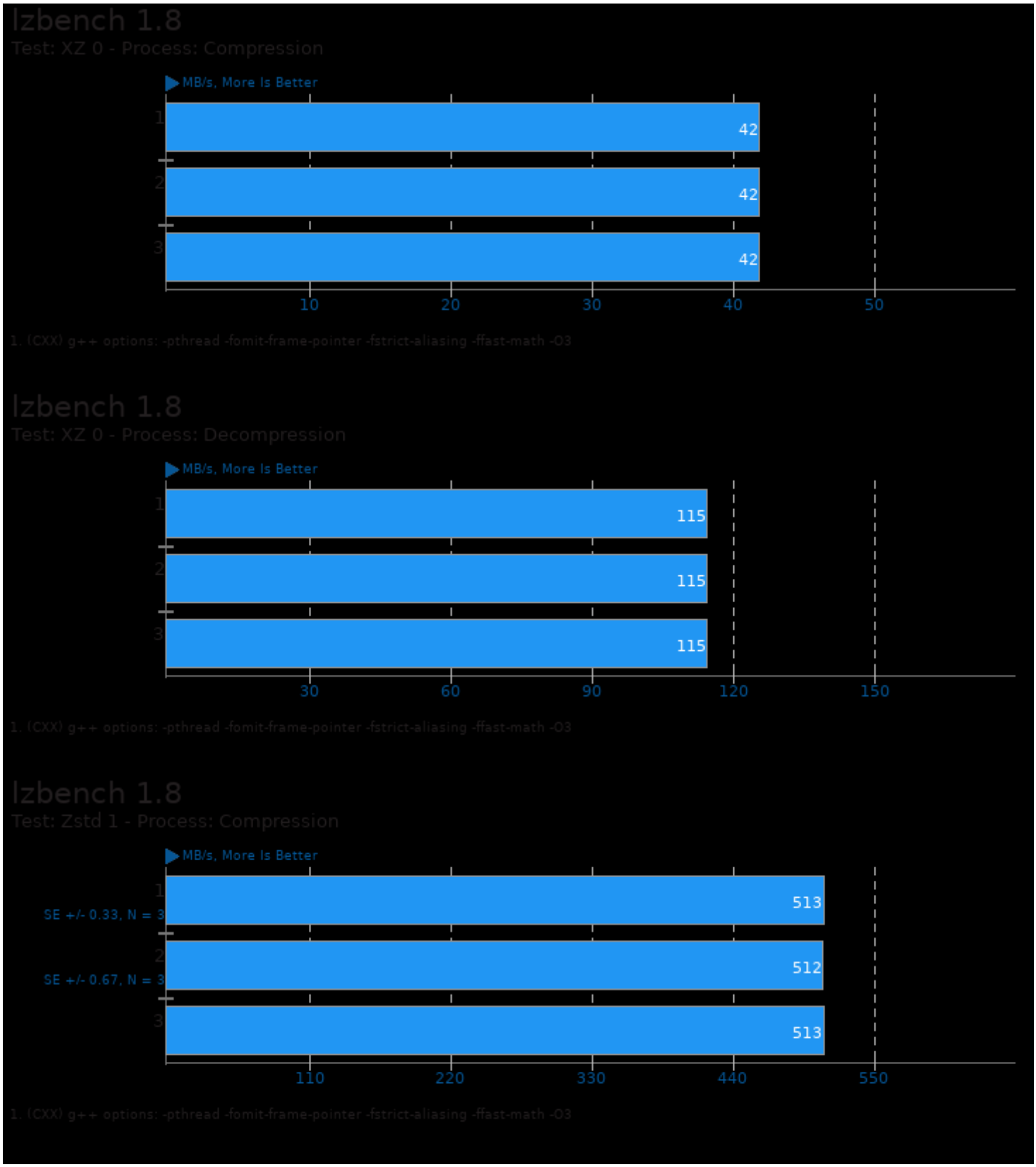
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xa0 - Thermald 2.3
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	1	2	3
lzbench - XZ 0 - Compression (MB/s)	42	42	42
lzbench - XZ 0 - Decompression (MB/s)	115	115	115
lzbench - Zstd 1 - Compression (MB/s)	**513**	**512**	**513**
Normalized	100%	99.81%	100%
Standard Deviation	0.1%	0.2%	
lzbench - Zstd 1 - Decompression (MB/s)	**1774**	**1774**	**1794**
Normalized	98.89%	98.89%	100%
Standard Deviation		0.3%	0.2%
lzbench - Zstd 8 - Compression (MB/s)	**100**	**99**	**99**
Normalized	100%	99%	99%
lzbench - Zstd 8 - Decompression (MB/s)	**1915**	1917	**1956**
Normalized	97.9%	98.01%	100%
Standard Deviation	0.8%	0.5%	0.5%
lzbench - Crush 0 - Compression (MB/s)	**101**	**103**	102
Normalized	98.06%	100%	99.03%

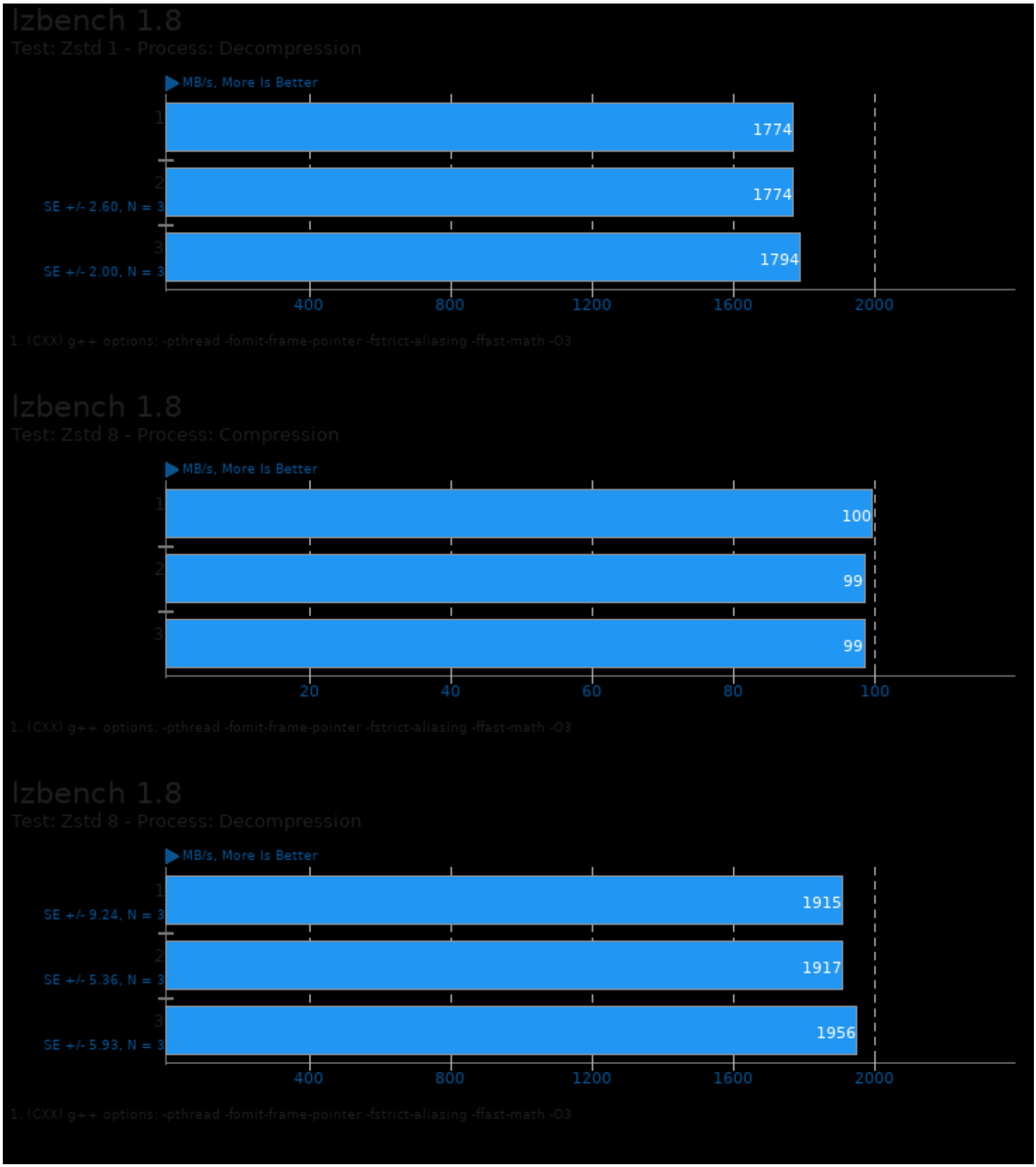
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Standard Deviation			1.1%
lzbench - Crush 0 - Decompression (MB/s)	**467**	**469**	**469**
Normalized	99.57%	100%	100%
Standard Deviation		0.2%	0.2%
lzbench - Brotli 0 - Compression (MB/s)	**478**	**477**	**478**
Normalized	100%	99.79%	100%
Standard Deviation	0.1%		0.2%
lzbench - Brotli 0 - Decompression (MB/s)	596	**595**	**603**
Normalized	98.84%	98.67%	100%
Standard Deviation	0.4%	0.3%	0.3%
lzbench - Brotli 2 - Compression (MB/s)	195	195	195
lzbench - Brotli 2 - Decompression (MB/s)	**722**	725	**730**
Normalized	98.9%	99.32%	100%
Standard Deviation	1%	0.6%	0.5%
lzbench - Libdeflate 1 - Compression (MB/s)	**252**	**252**	**251**
Normalized	100%	100%	99.6%
Standard Deviation	0.2%		
Cython Benchmark - N-Queens (sec)	24.544	**24.670**	**24.362**
Normalized	99.26%	98.75%	100%
Standard Deviation	0.6%	0.5%	0.7%
Gcrypt Library (sec)	235.070	**235.486**	**234.509**
Normalized	99.76%	99.59%	100%
Standard Deviation	0.1%	0%	0.5%
FinanceBench - Repo OpenMP (ms)	98671	**100223**	**97904**
Normalized	99.22%	97.69%	100%
Standard Deviation	2.8%	0.3%	4.1%
FinanceBench - Bonds OpenMP (ms)	138813	**140891**	**137803**
Normalized	99.27%	97.81%	100%
Standard Deviation	0.5%	1.4%	1.1%

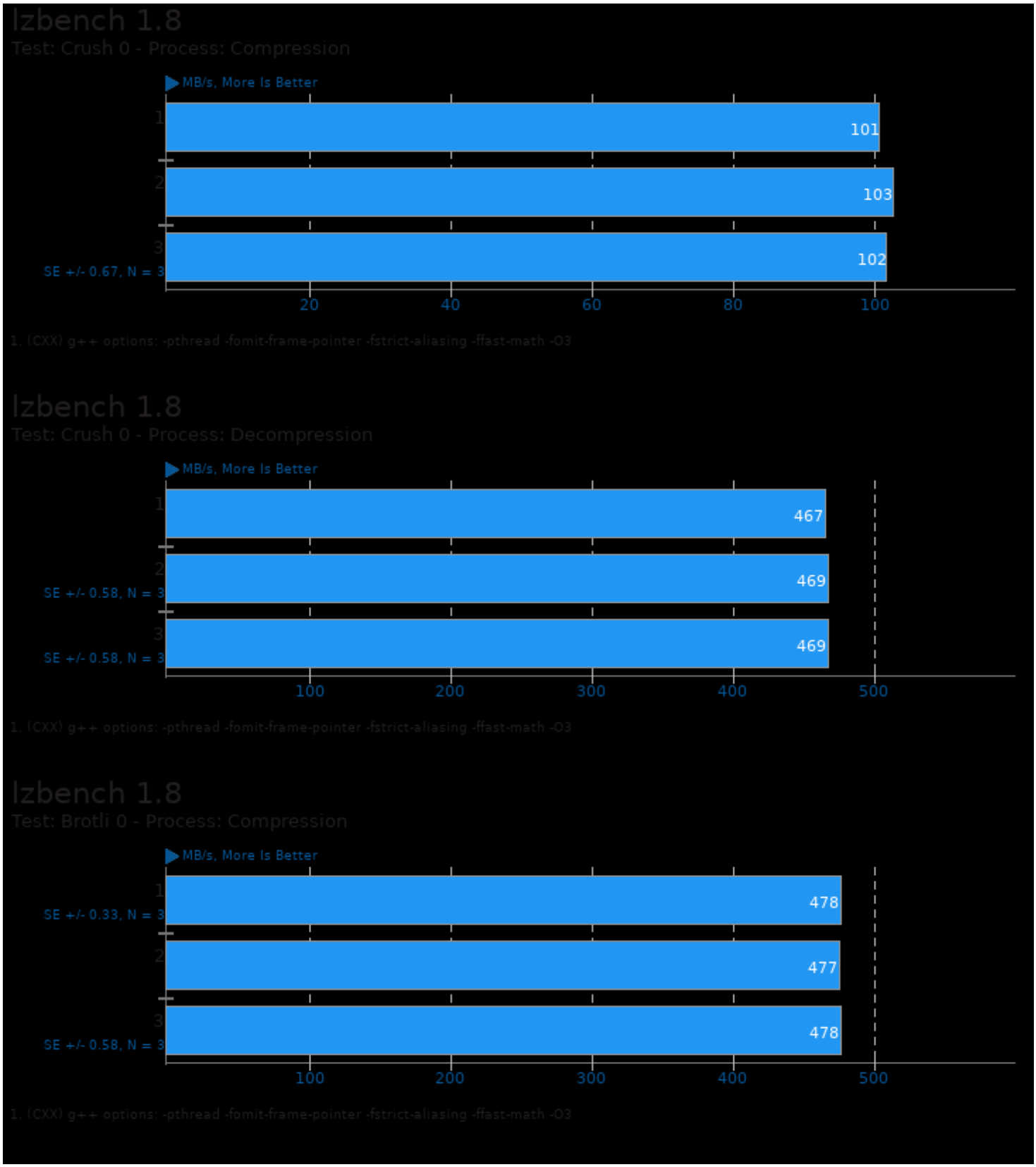
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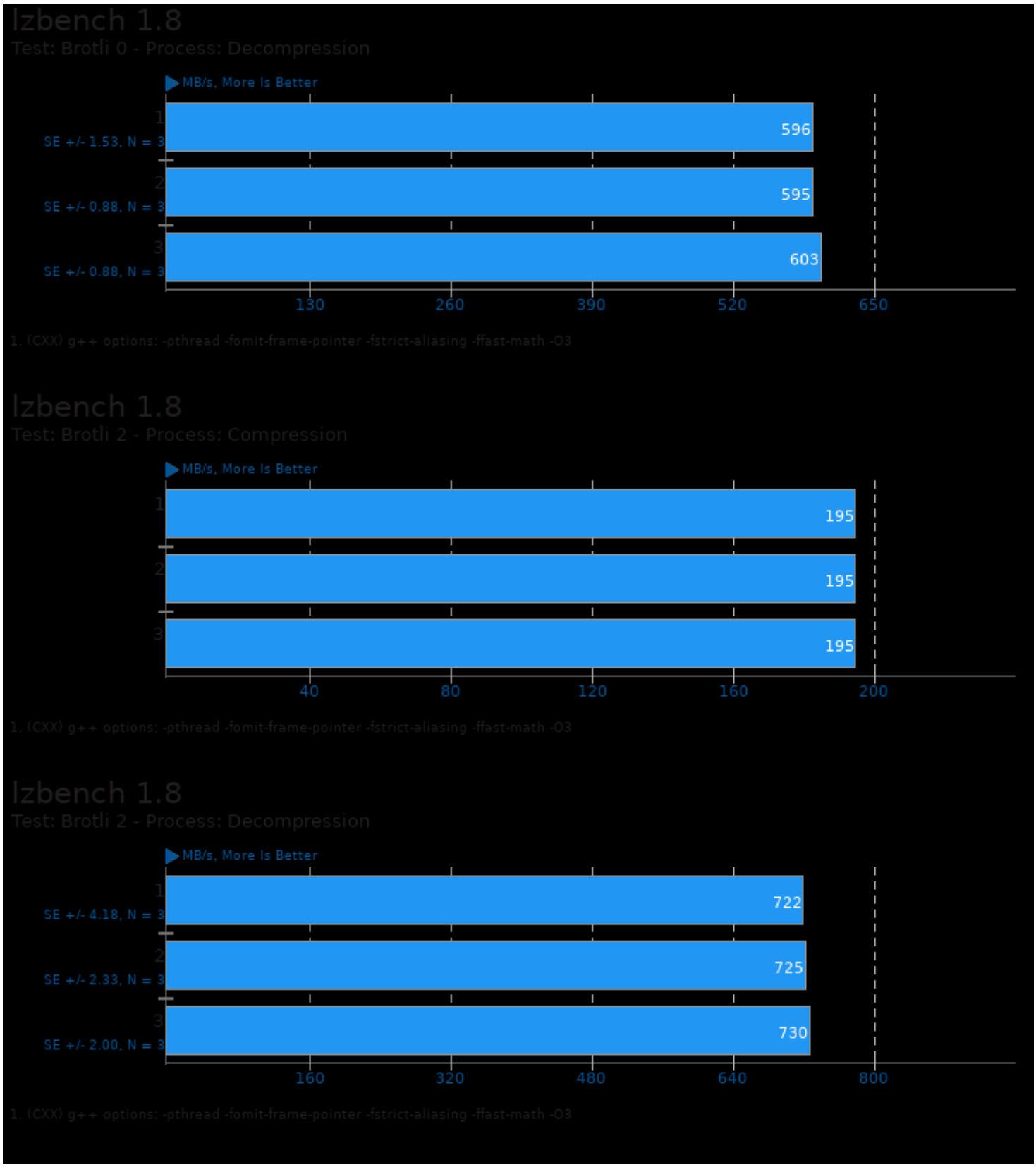
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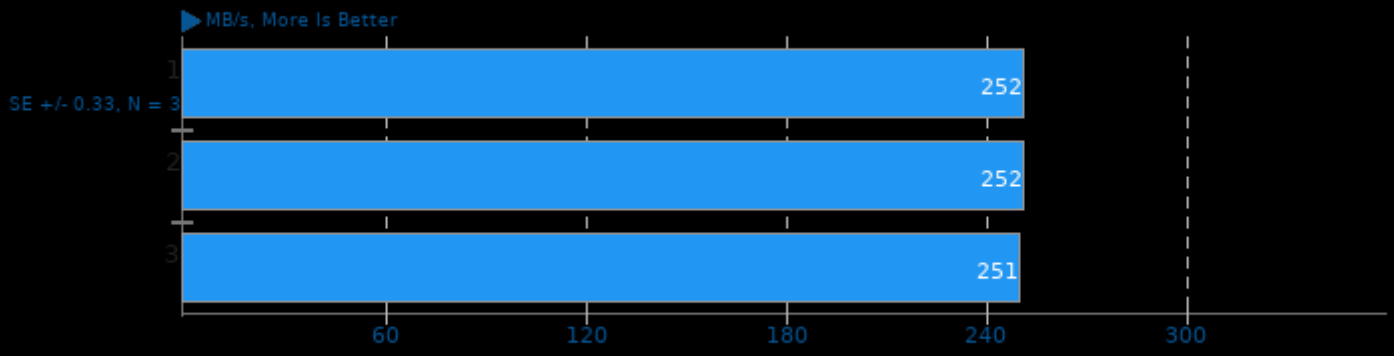
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lzbench 1.8

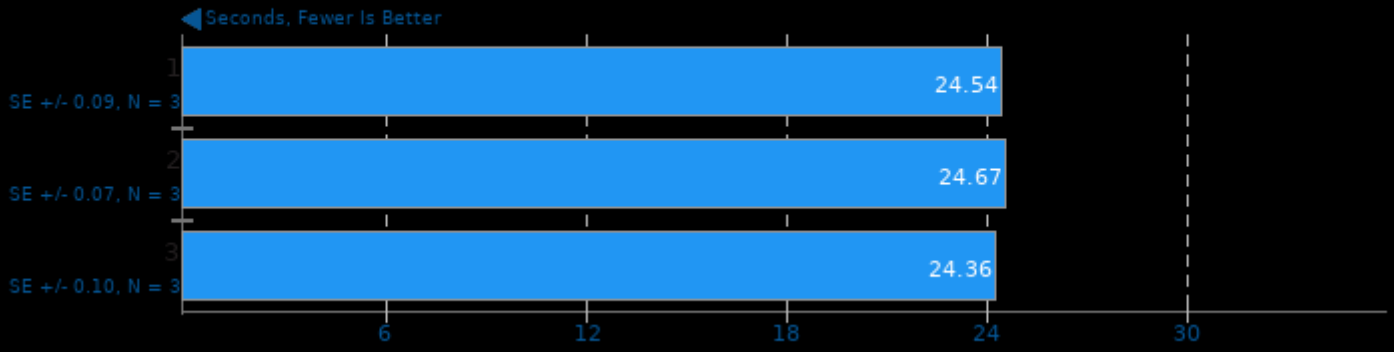
Test: Libdeflate 1 - Process: Compression



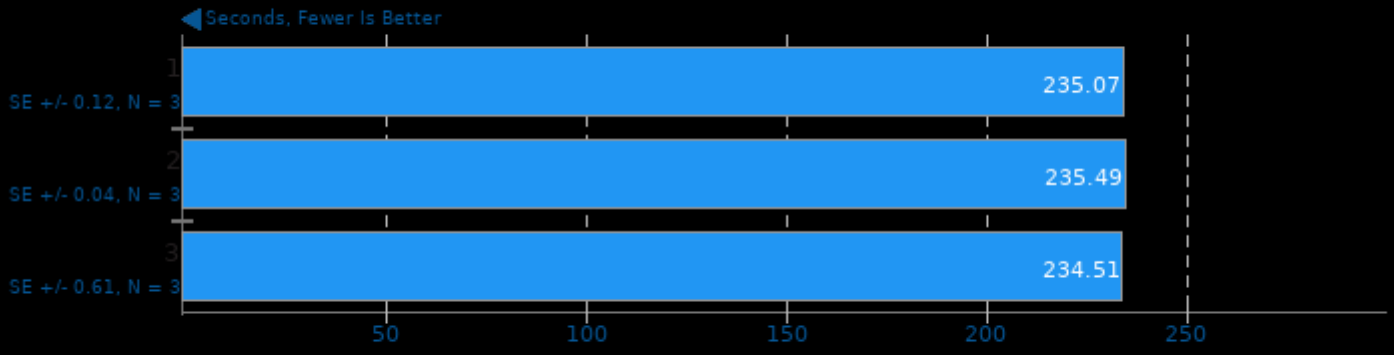
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Cython Benchmark 0.29.21

Test: N-Queens

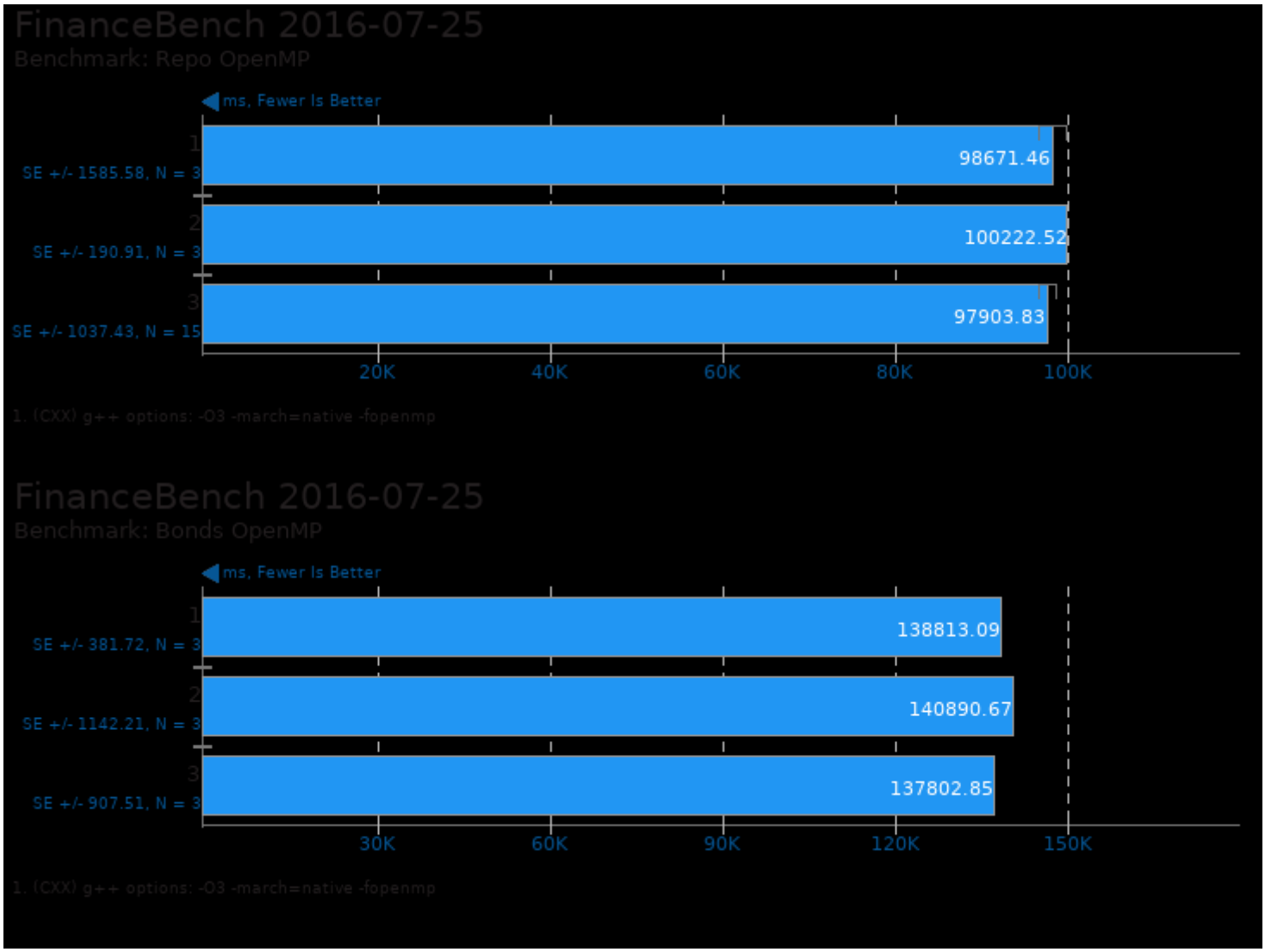


Gcrypt Library 1.9



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

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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/cython-bench and pts/lzbench

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 20:30.