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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

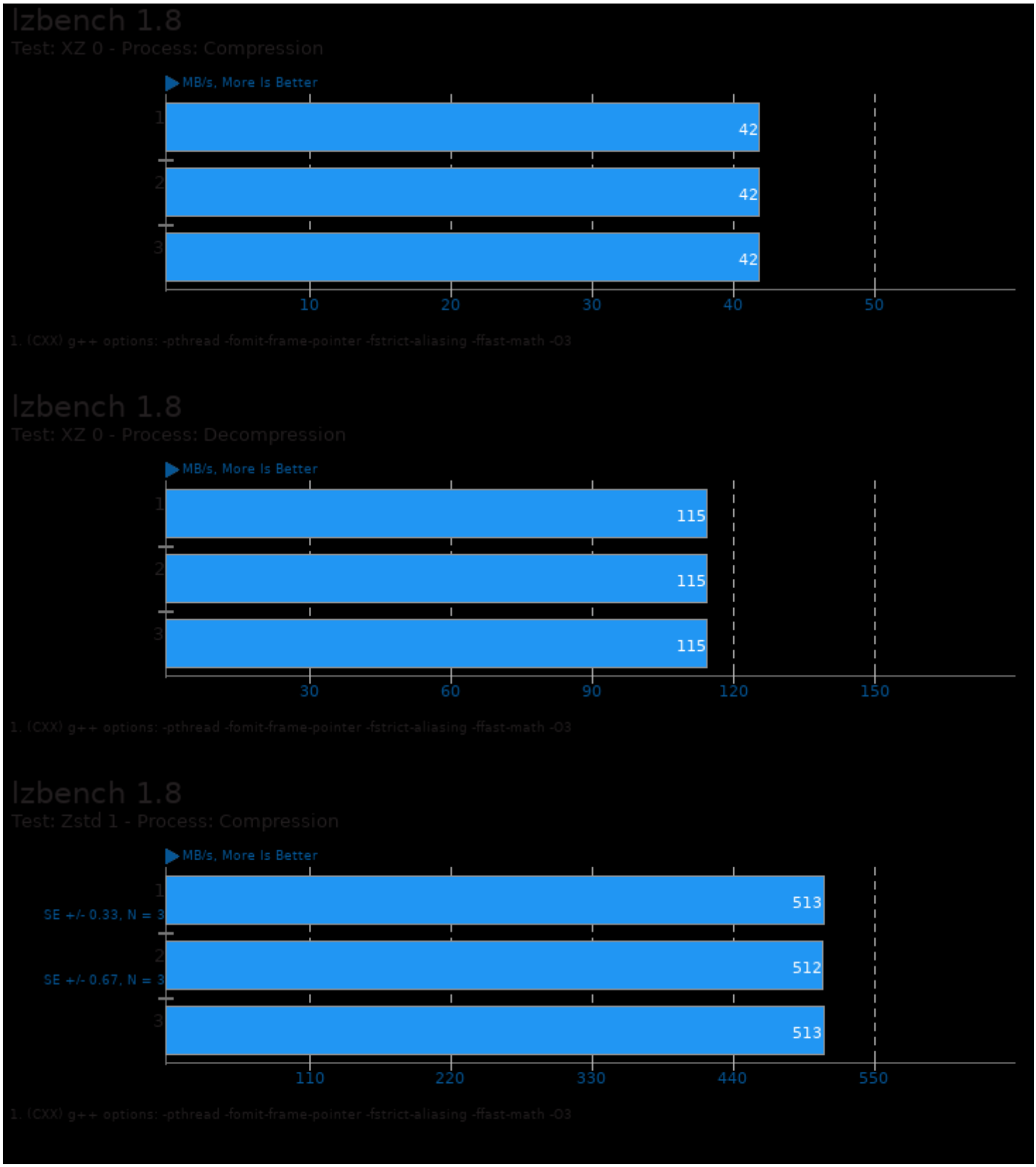
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --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% |

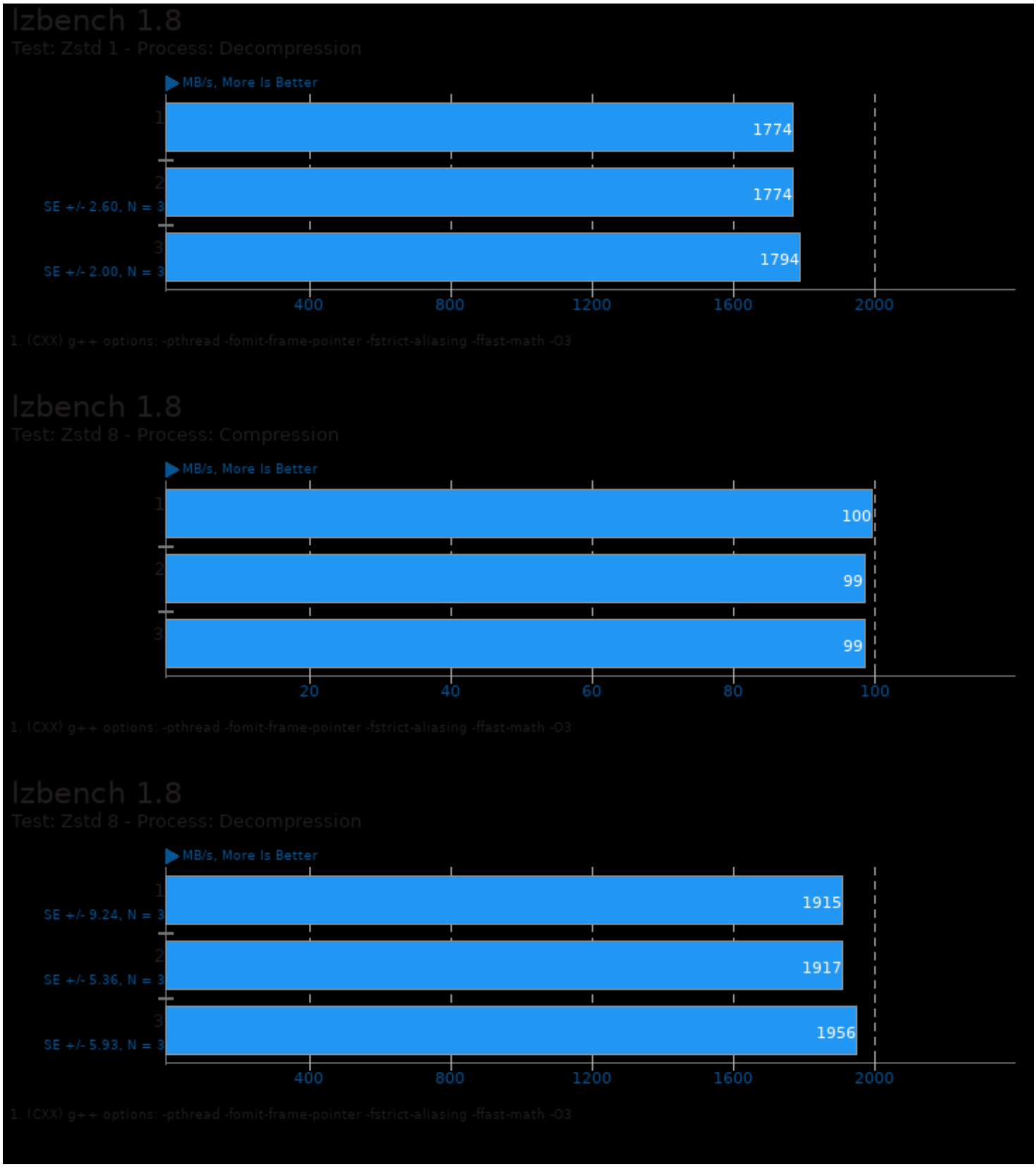
# Icelake Crypt

| | | | |
|---|---|---|---|
| **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% | | |
| **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% |
| **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% |

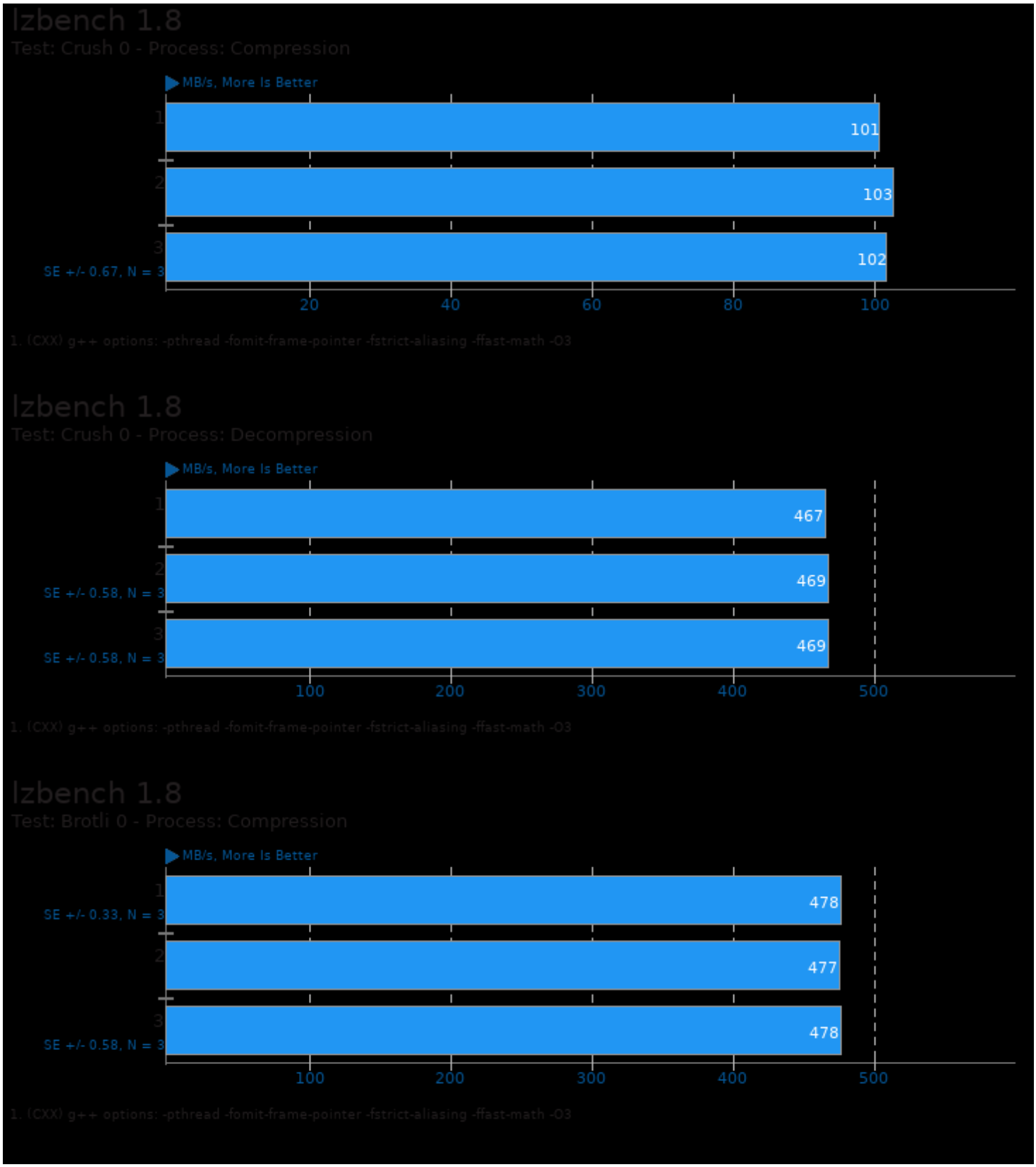
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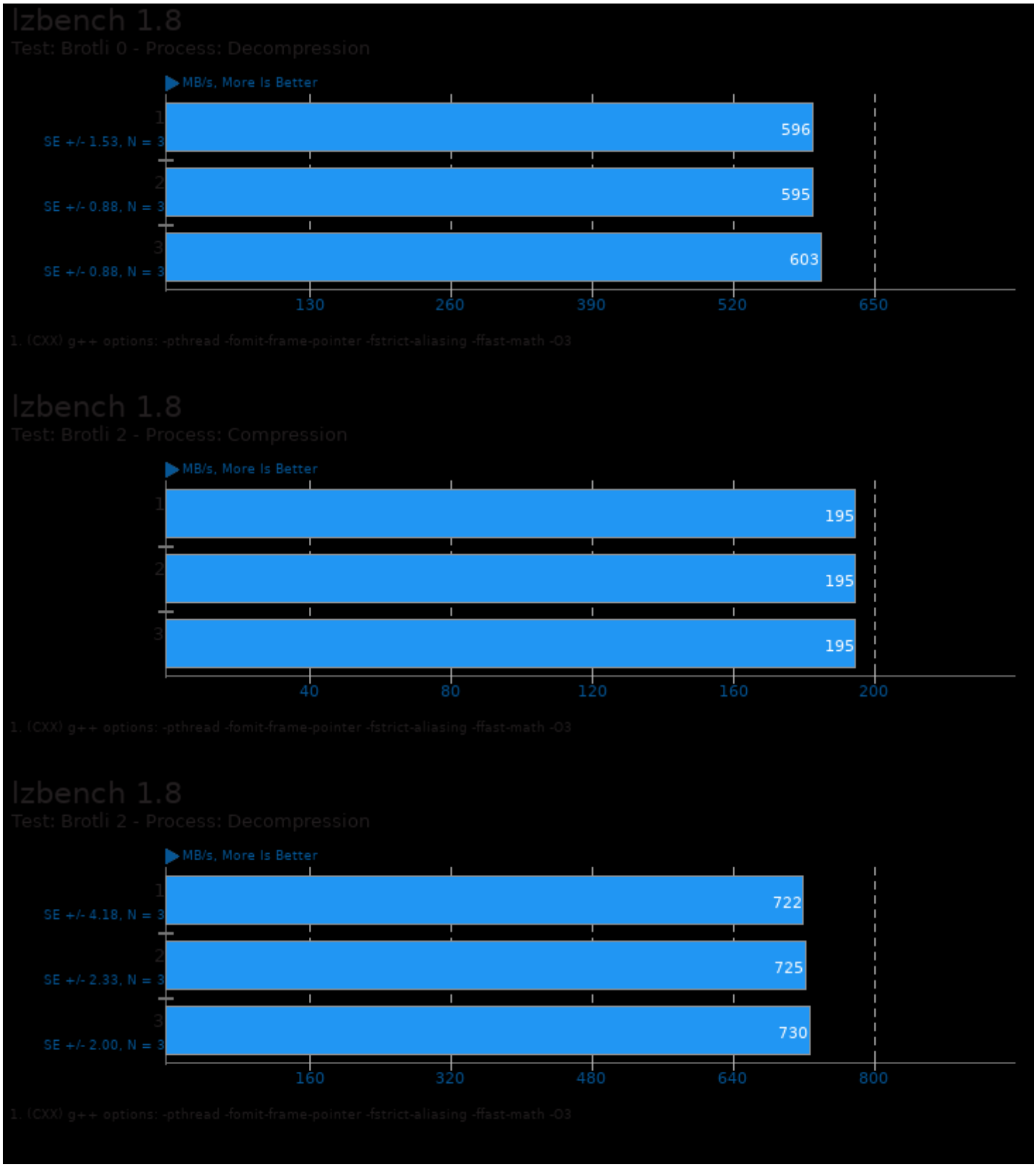
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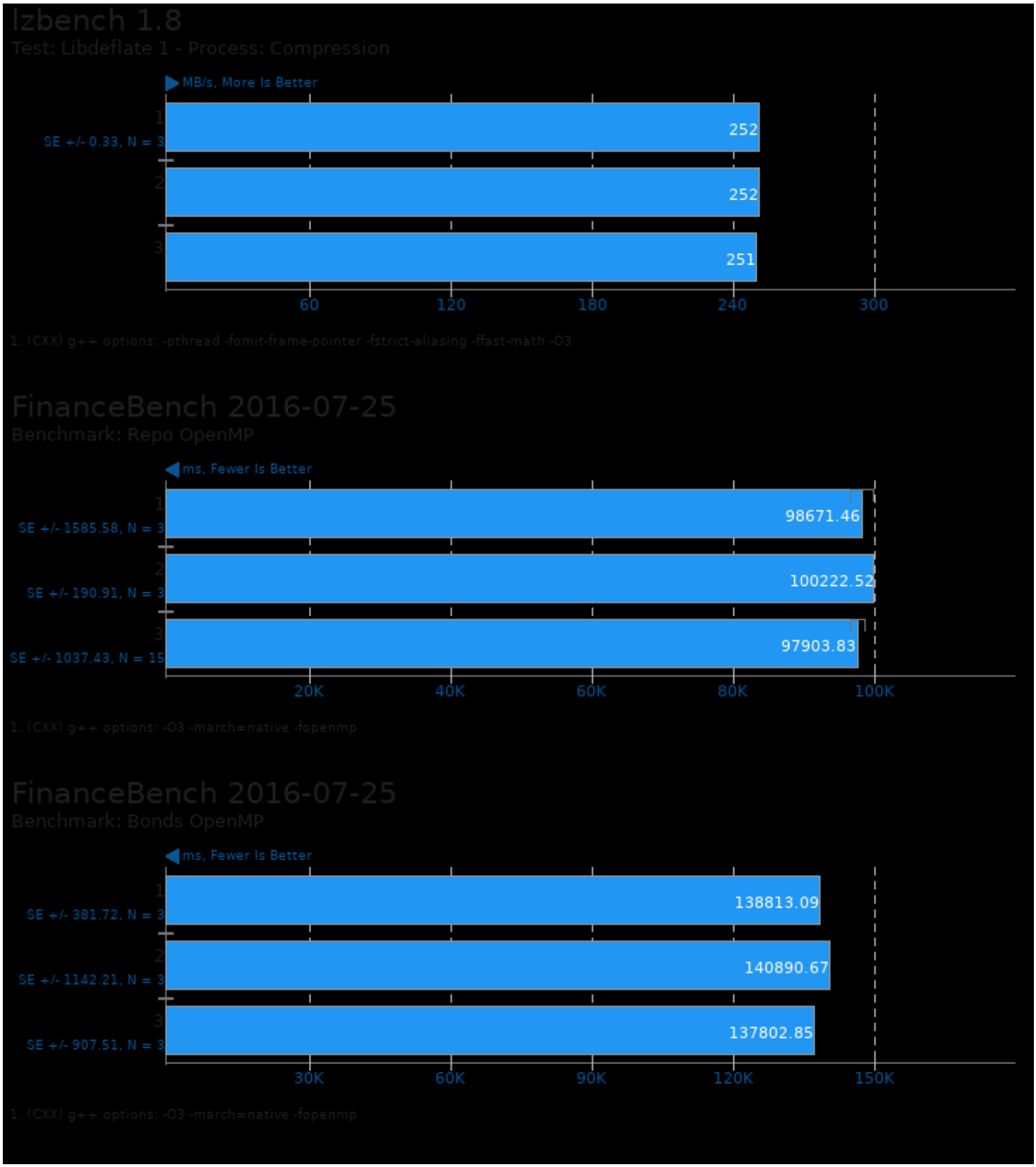
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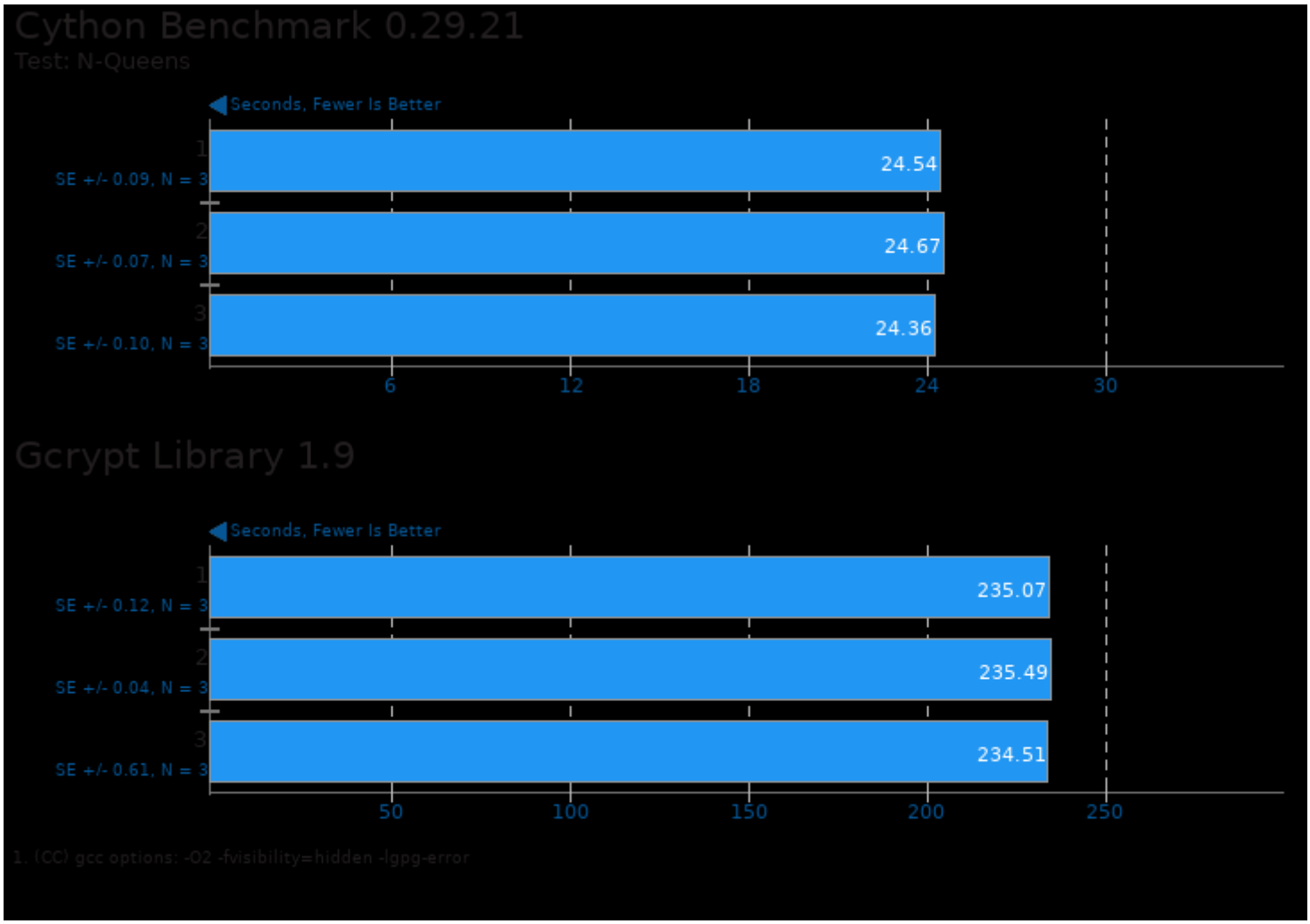
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These geometric means are based upon test groupings / test suites for this result file.




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

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:49.*