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# Clear Compare BSD

Intel Core i9-10980XE testing on NetBSD 9.2/amd64 via the Phoronix Test Suite.

**Automated Executive Summary**

*Clear Linux 35320 had the most wins, coming in first place for 82% of the tests.*

*Based on the geometric mean of all complete results, the fastest (Clear Linux 35320) was 1.869x the speed of the slowest (NetBSD 9.2). DragonFlyBSD 6.0.1 was 0.702x the speed of Clear Linux 35320, FreeBSD 13.0 was 0.99x the speed of DragonFlyBSD 6.0.1, OpenBSD 7.0 was 0.848x the speed of FreeBSD 13.0, NetBSD 9.2 was 0.908x the speed of OpenBSD 7.0.*

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

*Stress-NG (Test: Semaphores) at 4110.733x*
*LuaJIT (Test: Dense LU Matrix Factorization) at 1809.104x*
*PyPerformance (Benchmark: raytrace) at 730.702x*
*Stress-NG (Test: Socket Activity) at 693.844x*
*LuaJIT (Test: Sparse Matrix Multiply) at 522.445x*
*LuaJIT (Test: Composite) at 477.941x*
*LuaJIT (Test: Jacobi Successive Over-Relaxation) at 335.05x*
*LuaJIT (Test: Monte Carlo) at 324.812x*

*PyPerformance (Benchmark: 2to3) at 298.429x*
*PyPerformance (Benchmark: go) at 295.58x.*

# Test Systems:

## Clear Linux 35320

Processor: Intel Core i9-10980XE @ 4.80GHz (18 Cores / 36 Threads), Motherboard: ASRock X299 Steel Legend (P1.30 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 32GB, Disk: Samsung SSD 970 PRO 512GB, Graphics: NVIDIA NV132 11GB, Audio: Realtek ALC1220, Monitor: ASUS VP28U, Network: Intel I219-V + Intel I211

OS: Clear Linux OS 35320, Kernel: 5.15.4-1100.native (x86_64), Desktop: GNOME Shell 41.1, Display Server: X Server 1.20.11, Display Driver: nouveau, OpenGL: 4.3 Mesa 21.3.0, Compiler: GCC 11.2.1 20211122 releases/gcc-11.2.0-460-gf3c9581964 + Clang 11.1.0 + LLVM 11.1.0, File-System: ext4, Screen Resolution: 2560x1600

Kernel Notes: Transparent Huge Pages: always
Environment Notes: FFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,--enable-new-dtags" CXXFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=skylake -fvisibility-inlines-hidden -Wl,--enable-new-dtags" MESA_GLSL_CACHE_DISABLE=0 FCFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,-sort-common -Wl,--enable-new-dtags" CFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=skylake" THEANO_FLAGS="floatX=float32,openmp=true,gcc.cxxflags="-ftree-vectorize -mavx""
Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=x86-64-v3 --with-gcc-major-version-only --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=skylake-avx512
Processor Notes: Scaling Governor: intel_cpufreq performance - CPU Microcode: 0x5003102
Java Notes: OpenJDK Runtime Environment (build 1.8.0-u252-ga-b00)
Python Notes: Python 3.10.0
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: Mitigation of TSX disabled

## FreeBSD 13.0

Processor: Intel Core i9-10980XE @ 3.00GHz (36 Cores), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 32GB, Disk: Samsung SSD 970 PRO 512GB, Graphics: NVIDIA GeForce GTX 1080 Ti, Audio: Intel Kaby Lake-H HDA, Network: Intel PRO/1000 Connection

OS: FreeBSD, Kernel: 13.0-RELEASE (x86_64), Compiler: Clang 11.0.1, File-System: zfs, Screen Resolution: 1280x1024

Java Notes: OpenJDK Runtime Environment (build 11.0.12+7-1)
Python Notes: Python 3.8.12

## DragonFlyBSD 6.0.1

Processor: Intel Core i9-10980XE @ 3.00GHz (18 Cores / 36 Threads), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 32GB, Disk: NVME-PCIe, Graphics: NVIDIA GeForce GTX 1080 Ti, Network: Intel PRO/1000 Connection PCH_SPT_I219_V2 7.6.2

# Clear Compare BSD

OS: DragonFly, Kernel: 6.0-RELEASE (x86_64), Compiler: GCC 8.3, File-System: hammer2

Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-1)
Python Notes: Python 3.8.12

## OpenBSD 7.0

Processor: Intel Core i9-10980XE @ 2.99GHz (36 Cores), Motherboard: ASRock X299 Steel Legend, Memory: 32GB, Disk: 296GB

OS: OpenBSD, Kernel: 7.0 (x86_64), Display Server: X Server, Compiler: Clang 11.1.0 + LLVM 11.1.0, File-System: ffs

Python Notes: Python 3.8.12

## NetBSD 9.2

Processor: Intel Core i9-10980XE @ 3.00GHz (36 Cores), Memory: 32GB, Disk: 439GB

OS: NetBSD 9.2/amd64, Kernel: 9.2 (x86_64), Display Server: X Server, Compiler: GCC 7.5.0, File-System: ffs

Compiler Notes: --build=x86_64--netbsd --disable-libstdcxx-pch --disable-multilib --enable-__cxa_atexit --enable-libstdcxx-threads --enable-libstdcxx-time=rt --enable-long-long --enable-threads --enable-tls --host=x86_64--netbsd --target=x86_64--netbsd --with-default-libstdcxx-abi=new --with-diagnostics-color=auto-if-env --with-gmp-include=/usr/src/external/lgpl3/gmp/lib/libgmp/arch/x86_64 --with-gmp-lib=/var/obj/mknative/amd64-x86_64/usr/src/external/lgpl3/gmp/lib/libgmp --with-mpc-include=/usr/src/external/lgpl3/mpc/dist/src --with-mpc-lib=/var/obj/mknative/amd64-x86_64/usr/src/external/lgpl3/mpc/lib/libmpc --with-mpfr-include=/usr/src/external/lgpl3/mpfr/dist/src --with-mpfr-lib=/var/obj/mknative/amd64-x86_64/usr/src/external/lgpl3/mpfr/lib/libmpfr --with-tune=nocona --without-isl

| | Clear Linux 35320 | FreeBSD 13.0 | DragonFlyBSD 6.0.1 | OpenBSD 7.0 | NetBSD 9.2 |
|---|---|---|---|---|---|
| **Sockperf - Throughput (Messages/sec)** | 625839 | | | | |
| **Standard Deviation** | 1% | | | | |
| **Sockperf - Latency Ping Pong (usec)** | 2.974 | | | | |
| **Standard Deviation** | 0.5% | | | | |
| **Sockperf - Latency Under Load (usec)** | 31.186 | | | | |
| **Standard Deviation** | 7.7% | | | | |
| **OSBench - Create Files** | **13.286212** | 38.179912 | 85.825566 | 182.098085 | **1390** |
| **Normalized** | 100% | 34.8% | 15.48% | 7.3% | 0.96% |
| **Standard Deviation** | 0.1% | 0.2% | 5.2% | 0.3% | 0.1% |
| **OSBench - Create Threads (us/Event)** | 11.929671 | **4.506906** | 29.982726 | **51.612854** | 9.393692 |
| **Normalized** | 37.78% | 100% | 15.03% | 8.73% | 47.98% |
| **Standard Deviation** | 0.4% | 0.5% | 1.4% | 0.2% | 0.4% |
| **OSBench - Launch Programs (us/Event)** | 32.990774 | 68.976084 | **30.316512** | **1102** | 426.740647 |
| **Normalized** | 91.89% | 43.95% | 100% | 2.75% | 7.1% |
| **Standard Deviation** | 1.4% | 0.6% | 2.5% | 0.6% | 0.5% |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **OSBench - Create Processes (us/Event)** | 26.066303 | 45.115948 | **24.083455** | **351.149241** | 148.197015 |
| **Normalized** | 92.39% | 53.38% | 100% | 6.86% | 16.25% |
| **Standard Deviation** | 1.2% | 0.8% | 0.1% | 1.1% | 1.2% |
| **OSBench - Memory Allocations (Ns/Event)** | 68.017721 | **31.785440** | 37.156979 | **348.133008** | 38.009246 |
| **Normalized** | 46.73% | 100% | 85.54% | 9.13% | 83.63% |
| **Standard Deviation** | 0.2% | 5.8% | 0.6% | 0.1% | 0.7% |
| **C-Blosc - blosclz (MB/s)** | **25229** | **20116** | | | |
| **Normalized** | 100% | 79.73% | | | |
| **Standard Deviation** | 1.4% | 0.4% | | | |
| **QuantLib (MFLOPS)** | 2859 | | | | |
| **Standard Deviation** | 3.1% | | | | |
| **NAS Parallel Benchmarks - BT.C (Mop/s)** | 40795 | | | | |
| **Standard Deviation** | 0.3% | | | | |
| **NAS Parallel Benchmarks - CG.C (Mop/s)** | 10227 | | | | |
| **Standard Deviation** | 0.9% | | | | |
| **NAS Parallel Benchmarks - EP.C (Mop/s)** | 2325 | | | | |
| **Standard Deviation** | 3% | | | | |
| **NAS Parallel Benchmarks - EP.D (Mop/s)** | 2351 | | | | |
| **Standard Deviation** | 2.2% | | | | |
| **NAS Parallel Benchmarks - FT.C (Mop/s)** | 21075 | | | | |
| **Standard Deviation** | 0.6% | | | | |
| **NAS Parallel Benchmarks - IS.D (Mop/s)** | 1097 | | | | |
| **Standard Deviation** | 0.5% | | | | |
| **NAS Parallel Benchmarks - LU.C (Mop/s)** | 42641 | | | | |
| **Standard Deviation** | 0.3% | | | | |
| **NAS Parallel Benchmarks - MG.C (Mop/s)** | 16920 | | | | |
| **Standard Deviation** | 1.1% | | | | |
| **NAS Parallel Benchmarks - SP.B (Mop/s)** | 12160 | | | | |
| **Standard Deviation** | 0.4% | | | | |
| **NAS Parallel Benchmarks - SP.C (Mop/s)** | 9447 | | | | |
| **Standard Deviation** | 0.3% | | | | |
| **Rodinia - OpenMP LavaMD (sec)** | 119.621 | | | | |
| **Standard Deviation** | 0.2% | | | | |
| **Rodinia - OpenMP HotSpot3D (sec)** | 96.457 | | | | |
| **Standard Deviation** | 0.8% | | | | |
| **Rodinia - OpenMP Leukocyte** | 48.186 | | | | |
| **Standard Deviation** | 0.2% | | | | |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **Rodinia - OpenMP CFD Solver (sec)** | **10.666** | | **14.458** | | |
| **Normalized** | 100% | | 73.77% | | |
| **Standard Deviation** | 0.8% | | 0.1% | | |
| **Rodinia - O.S (sec)** | 14.813 | | | | |
| **Standard Deviation** | 3.4% | | | | |
| **Dolfyn - C.F.D (sec)** | 16.770 | | | | |
| **Standard Deviation** | 0.6% | | | | |
| **lzbench - Zstd 8 - Compression (MB/s)** | 95 | | | | |
| **Standard Deviation** | 0.6% | | | | |
| **lzbench - Zstd 8 - Decompression (MB/s)** | 1686 | | | | |
| **Standard Deviation** | 0.1% | | | | |
| **lzbench - Crush 0 - Compression (MB/s)** | 125 | | | | |
| **Standard Deviation** | 0% | | | | |
| **lzbench - Crush 0 - Decompression (MB/s)** | 547 | | | | |
| **Standard Deviation** | 0.1% | | | | |
| **lzbench - Brotli 2 - Compression (MB/s)** | 212 | | | | |
| **Standard Deviation** | 1% | | | | |
| **lzbench - Brotli 2 - Decompression (MB/s)** | 766 | | | | |
| **Standard Deviation** | 0.1% | | | | |
| **lzbench - Libdeflate 1 - Compression (MB/s)** | 241 | | | | |
| **Standard Deviation** | 0.2% | | | | |
| **lzbench - Libdeflate 1 - Decompression (MB/s)** | 1287 | | | | |
| **Standard Deviation** | 0% | | | | |
| **Timed MrBayes Analysis - P.P.A (sec)** | **165.253** | | **297.566** | | |
| **Normalized** | 100% | | 55.53% | | |
| **Standard Deviation** | 0.1% | | 1% | | |
| **Timed HMMer Search - P.D.S (sec)** | 124.720 | | | | |
| **Standard Deviation** | 0.1% | | | | |
| **Monte Carlo Simulations of Ionised Nebulae - Dust 2D** | 106 | | | | |
| **Standard Deviation** | 0% | | | | |
| **LAMMPS Molecular Dynamics Simulator - 20k Atoms (ns/day)** | **12.972** | | **0.868** | | |
| **Normalized** | 100% | | 6.69% | | |
| **Standard Deviation** | 0.4% | | 0.1% | | |
| **LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein (ns/day)** | **12.409** | | **0.814** | | |
| **Normalized** | 100% | | 6.56% | | |
| **Standard Deviation** | 0.5% | | 0% | | |
| **BLAKE2 (Cycles/Byte)** | **3.74** | 4.74 | 4.57 | 5.14 | **5.23** |

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|---|---|---|---|---|---|
| Normalized | 100% | 78.9% | 81.84% | 72.76% | 71.51% |
| Standard Deviation | 0.2% | 0.2% | 0.2% | 0% | 0% |
| **DaCapo Benchmark - H2 (msec)** | 3406 | 3606 | **3336** | **5007** | |
| Normalized | 97.94% | 92.51% | 100% | 66.63% | |
| Standard Deviation | 0.8% | 2.2% | 2.3% | 1.6% | |
| **DaCapo Benchmark - Jython (msec)** | **3321** | 5361 | 5169 | **9807** | |
| Normalized | 100% | 61.95% | 64.25% | 33.86% | |
| Standard Deviation | 0.8% | 0.3% | 2.4% | 0.8% | |
| **DaCapo Benchmark - Eclipse (msec)** | 16380 | | | | |
| Standard Deviation | 0.7% | | | | |
| **DaCapo Benchmark - Tradesoap (msec)** | 2999 | | | | |
| Standard Deviation | 3.4% | | | | |
| **DaCapo Benchmark - Tradebeans (msec)** | 2762 | | | | |
| Standard Deviation | 0.6% | | | | |
| **Renaissance - Scala Dotty (ms)** | **693.0** | 1083 | 966.7 | **1428** | |
| Normalized | 100% | 64% | 71.69% | 48.55% | |
| Standard Deviation | 0.4% | 0.3% | 1.5% | 5% | |
| **Renaissance - Rand Forest (ms)** | 627.6 | | | | |
| Standard Deviation | 0.3% | | | | |
| **Renaissance - ALS Movie Lens (ms)** | 5574 | | | | |
| Standard Deviation | 0.8% | | | | |
| **Renaissance - Apache Spark ALS (ms)** | 1261 | | | | |
| Standard Deviation | 0.8% | | | | |
| **Renaissance - Apache Spark Bayes (ms)** | 1095 | | | | |
| Standard Deviation | 0.3% | | | | |
| **Renaissance - Savina Reactors.IO (ms)** | **9577** | **17957** | 11050 | 15787 | |
| Normalized | 100% | 53.33% | 86.67% | 60.66% | |
| Standard Deviation | 0.7% | 0.8% | 6% | 0.3% | |
| **Renaissance - A.S.P (ms)** | 3185 | | | | |
| Standard Deviation | 1.8% | | | | |
| **Renaissance - F.H.R (ms)** | **2109** | 3262 | | **46939** | |
| Normalized | 100% | 64.66% | | 4.49% | |
| Standard Deviation | 0.6% | 0.4% | | 0.1% | |
| **Renaissance - I.M.D.S (ms)** | 3064 | | | | |
| Standard Deviation | 0.9% | | | | |
| **Renaissance - A.U.C.T (ms)** | **10961** | 16008 | | **45304** | |
| Normalized | 100% | 68.48% | | 24.19% | |
| Standard Deviation | 2.4% | 0.9% | | 1.5% | |
| **Renaissance - G.A.U.J.F (ms)** | **1706** | 2199 | | **2332** | |
| Normalized | 100% | 77.58% | | 73.16% | |
| Standard Deviation | 4.8% | 1.1% | | 0.3% | |
| **BYTE Unix Benchmark - Dhrystone 2 (LPS)** | **59141583** | | 35002987 | | **31443265** |
| Normalized | 100% | | 59.19% | | 53.17% |
| Standard Deviation | 0.8% | | 0% | | 0.1% |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **LZ4 Compression - 1 - Compression Speed (MB/s)** | 7067 | | | | |
| **Standard Deviation** | 0.4% | | | | |
| **LZ4 Compression - 1 - D.S** | 7598 | | | | |
| **Standard Deviation** | 3.7% | | | | |
| **LZ4 Compression - 3 - Compression Speed (MB/s)** | 57.24 | | | | |
| **Standard Deviation** | 0.1% | | | | |
| **LZ4 Compression - 3 - D.S** | 7344 | | | | |
| **Standard Deviation** | 1.1% | | | | |
| **LZ4 Compression - 9 - Compression Speed (MB/s)** | 55.66 | | | | |
| **Standard Deviation** | 0.4% | | | | |
| **LZ4 Compression - 9 - D.S** | 7397 | | | | |
| **Standard Deviation** | 1.1% | | | | |
| **Zstd Compression - 3 - Compression Speed (MB/s)** | 4362 | | | | |
| **Standard Deviation** | 0.8% | | | | |
| **Zstd Compression - 8 - Compression Speed (MB/s)** | 441.3 | | | | |
| **Standard Deviation** | 2.4% | | | | |
| **Zstd Compression - 8 - D.S** | 3441 | | | | |
| **Standard Deviation** | 0.1% | | | | |
| **Zstd Compression - 19 - Compression Speed (MB/s)** | 64.0 | | | | |
| **Standard Deviation** | 0.5% | | | | |
| **Zstd Compression - 19 - D.S (MB/s)** | 2854 | | | | |
| **Standard Deviation** | 0.6% | | | | |
| **Zstd Compression - 19, Long Mode - Compression Speed** | 47.4 | | | | |
| **Standard Deviation** | 0.2% | | | | |
| **Zstd Compression - 19, Long Mode - D.S (MB/s)** | 2963 | | | | |
| **Standard Deviation** | 0.3% | | | | |
| **Zstd Compression - 3 - Compression Speed (MB/s)** | **4412** | **355.4** | 376.2 | 1686 | 2019 |
| **Normalized** | 100% | 8.06% | 8.53% | 38.22% | 45.77% |
| **Standard Deviation** | 1.4% | 0.1% | 1.4% | 1% | 0.5% |
| **Zstd Compression - 8 - Compression Speed (MB/s)** | 449.7 | **20.3** | 22.6 | **637.5** | 437.9 |
| **Normalized** | 70.54% | 3.18% | 3.55% | 100% | 68.69% |
| **Standard Deviation** | 2.5% | 2.4% | 1.4% | 1.4% | 4.2% |
| **Zstd Compression - 8 - D.S** | **3429** | 2403 | 2709 | **2034** | 2880 |
| **Normalized** | 100% | 70.08% | 79.01% | 59.31% | 83.99% |
| **Standard Deviation** | 0.1% | 0.3% | 0.4% | 0.3% | 0.8% |
| **Zstd Compression - 19 - Compression Speed (MB/s)** | **63.2** | **2.35** | 2.63 | 42.3 | 54.1 |
| **Normalized** | 100% | 3.72% | 4.16% | 66.93% | 85.6% |
| **Standard Deviation** | 2.4% | 0.4% | 0.2% | 5.7% | 2.3% |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **Zstd Compression - 19 - D.S (MB/s)** | **2853** | 2119 | 2331 | **1678** | 2350 |
| **Normalized** | 100% | 74.29% | 81.69% | 58.8% | 82.35% |
| **Standard Deviation** | 0.2% | 0.3% | 0.6% | 1% | 0.4% |
| **Zstd Compression - 19, Long Mode - Compression Speed** | **48.6** | **2.91** | 3.28 | 34.3 | 31.7 |
| **Normalized** | 100% | 5.99% | 6.75% | 70.58% | 65.23% |
| **Standard Deviation** | 0.5% | 0.2% | 0.3% | 0.2% | 3.7% |
| **Zstd Compression - 19, Long Mode - D.S (MB/s)** | **2948** | 2157 | 2414 | **1758** | 2512 |
| **Normalized** | 100% | 73.16% | 81.86% | 59.61% | 85.18% |
| **Standard Deviation** | 0.1% | 0.5% | 0% | 2.5% | 0.6% |
| **LuaJIT - Composite (Mflops)** | **1615** | 1107 | **3.38** | | |
| **Normalized** | 100% | 68.55% | 0.21% | | |
| **Standard Deviation** | 0.3% | 0.1% | 0.3% | | |
| **LuaJIT - Monte Carlo (Mflops)** | **552.18** | 360.10 | **1.70** | | |
| **Normalized** | 100% | 65.21% | 0.31% | | |
| **Standard Deviation** | 0% | 0.2% | 0.3% | | |
| **LuaJIT - F.F.T (Mflops)** | **514.22** | 393.07 | **5.14** | | |
| **Normalized** | 100% | 76.44% | 1% | | |
| **Standard Deviation** | 0% | 1.4% | 0.3% | | |
| **LuaJIT - S.M.M (Mflops)** | **1468** | 962.60 | **2.81** | | |
| **Normalized** | 100% | 65.57% | 0.19% | | |
| **Standard Deviation** | 0.3% | 0.6% | 0% | | |
| **LuaJIT - D.L.M.F (Mflops)** | **3817** | 2695 | **2.11** | | |
| **Normalized** | 100% | 70.59% | 0.06% | | |
| **Standard Deviation** | 0.8% | 0.2% | 0.5% | | |
| **LuaJIT - J.S.O.R (Mflops)** | **1726** | 1127 | **5.15** | | |
| **Normalized** | 100% | 65.29% | 0.3% | | |
| **Standard Deviation** | 0.1% | 0.2% | 0.3% | | |
| **LibRaw - P.P.B (Mpix/sec)** | **57.08** | 26.94 | 29.88 | **4.36** | 19.93 |
| **Normalized** | 100% | 47.2% | 52.35% | 7.64% | 34.92% |
| **Standard Deviation** | 0.5% | 0.7% | 2.2% | 0.1% | 0.8% |
| **Crafty - Elapsed Time (Nodes/s)** | **9064595** | | | | **7672058** |
| **Normalized** | 100% | | | | 84.64% |
| **Standard Deviation** | 0.1% | | | | 0.4% |
| **Node.js Express HTTP Load Test (Reqs/sec)** | **9061** | | **4560** | | |
| **Normalized** | 100% | | 50.33% | | |
| **Standard Deviation** | 0.2% | | 8.3% | | |
| **GraphicsMagick - Rotate (Iterations/min)** | **1159** | 1060 | **515** | | |
| **Normalized** | 100% | 91.46% | 44.43% | | |
| **Standard Deviation** | 1.9% | 0.7% | 0.2% | | |
| **GraphicsMagick - Sharpen (Iterations/min)** | **324** | **192** | 231 | | |
| **Normalized** | 100% | 59.26% | 71.3% | | |
| **Standard Deviation** | 0.2% | 0% | 0% | | |
| **GraphicsMagick - Resizing (Iterations/min)** | **1925** | 1304 | **497** | | |
| **Normalized** | 100% | 67.74% | 25.82% | | |
| **Standard Deviation** | 2.4% | 0.4% | 0.6% | | |

# Clear Compare BSD

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|---|---|---|---|---|
| **GraphicsMagick - HWB Color Space (Iterations/min)** | **1836** | 1502 | **671** | |
| **Normalized** | 100% | 81.81% | 36.55% | |
| **Standard Deviation** | 0.2% | 0.1% | 0.1% | |
| **dav1d - Chimera 1080p (FPS)** | 840.94 | | | |
| **Standard Deviation** | 0.6% | | | |
| **dav1d - Summer Nature 4K (FPS)** | 254.84 | | | |
| **Standard Deviation** | 0.4% | | | |
| **dav1d - S.N.1 (FPS)** | 737.85 | | | |
| **Standard Deviation** | 0.5% | | | |
| **dav1d - C.1.1.b (FPS)** | 584.67 | | | |
| **Standard Deviation** | 0.2% | | | |
| **TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)** | **804.170** | **34.9447** | 258.058 | 103.825 |
| **Normalized** | 100% | 4.35% | 32.09% | 12.91% |
| **Standard Deviation** | 0.4% | 0.2% | 0.4% | 0.3% |
| **Kvazaar - Bosphorus 4K - Medium (FPS)** | **11.12** | 9.85 | **8.11** | |
| **Normalized** | 100% | 88.58% | 72.93% | |
| **Standard Deviation** | 0.1% | 0.4% | 0.3% | |
| **Kvazaar - Bosphorus 1080p - Medium (FPS)** | **43.27** | 41.78 | **30.21** | |
| **Normalized** | 100% | 96.56% | 69.82% | |
| **Standard Deviation** | 0.4% | 0.6% | 0.4% | |
| **Kvazaar - Bosphorus 4K - Very Fast (FPS)** | **26.19** | 22.42 | **14.54** | |
| **Normalized** | 100% | 85.61% | 55.52% | |
| **Standard Deviation** | 0.4% | 0.2% | 0.2% | |
| **Kvazaar - Bosphorus 4K - Ultra Fast (FPS)** | **45.42** | 38.47 | **21.03** | |
| **Normalized** | 100% | 84.7% | 46.3% | |
| **Standard Deviation** | 0.1% | 1.6% | 0.3% | |
| **Kvazaar - Bosphorus 1080p - Very Fast (FPS)** | **97.34** | 89.41 | **49.58** | |
| **Normalized** | 100% | 91.85% | 50.93% | |
| **Standard Deviation** | 0.1% | 1.9% | 0.6% | |
| **Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)** | **164.68** | 156.08 | **71.16** | |
| **Normalized** | 100% | 94.78% | 43.21% | |
| **Standard Deviation** | 0.3% | 0.3% | 0.5% | |
| **VP9 libvpx Encoding - Speed 0 - Bosphorus 4K (FPS)** | 5.54 | | | |
| **Standard Deviation** | 1.9% | | | |
| **VP9 libvpx Encoding - Speed 5 - Bosphorus 4K (FPS)** | 15.10 | | | |
| **Standard Deviation** | 0.6% | | | |
| **VP9 libvpx Encoding - Speed 0 - Bosphorus 1080p (FPS)** | 11.71 | | | |
| **Standard Deviation** | 0.3% | | | |
| **VP9 libvpx Encoding - Speed 5 - Bosphorus 1080p (FPS)** | 27.10 | | | |
| **Standard Deviation** | 0.2% | | | |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **x264 - H.2.V.E (FPS)** | **138.17** | 114.83 | | **60.63** | |
| **Normalized** | 100% | 83.11% | | 43.88% | |
| **Standard Deviation** | 2.5% | 4.5% | | 25.3% | |
| **x265 - Bosphorus 4K (FPS)** | **23.51** | 21.62 | 21.68 | **9.20** | 19.17 |
| **Normalized** | 100% | 91.96% | 92.22% | 39.13% | 81.54% |
| **Standard Deviation** | 0.3% | 2.4% | 1.6% | 2% | 1.1% |
| **x265 - Bosphorus 1080p (FPS)** | **67.71** | 65.06 | 59.19 | **34.60** | 48.00 |
| **Normalized** | 100% | 96.09% | 87.42% | 51.1% | 70.89% |
| **Standard Deviation** | 0.5% | 0.1% | 0.7% | 1.2% | 0.1% |
| **ACES DGEMM - S.F.P.R (GFLOP/s)** | **5.701978** | **3.171527** | | | 5.200317 |
| **Normalized** | 100% | 55.62% | | | 91.2% |
| **Standard Deviation** | 6.9% | 1.1% | | | 2.7% |
| **Coremark - CoreMark Size 666 - I.P.S (Iterations/Sec)** | **664229** | **449988** | | | 510461 |
| **Normalized** | 100% | 67.75% | | | 76.85% |
| **Standard Deviation** | 1.9% | 0% | | | 0% |
| **7-Zip Compression - Compression Rating (MIPS)** | 122571 | | | | |
| **Standard Deviation** | 2.4% | | | | |
| **7-Zip Compression - D.R (MIPS)** | 101871 | | | | |
| **Standard Deviation** | 0.5% | | | | |
| **Stockfish - Total Time (Nodes/s)** | **50623798** | **40501083** | | | |
| **Normalized** | 100% | 80% | | | |
| **Standard Deviation** | 1.8% | 0.6% | | | |
| **ebizzy (Records/s)** | 603272 | | | | |
| **Standard Deviation** | 7.2% | | | | |
| **libavif avifenc - 2 (sec)** | 39.827 | | | | |
| **Standard Deviation** | 1.2% | | | | |
| **libavif avifenc - 6 (sec)** | 10.564 | | | | |
| **Standard Deviation** | 0.4% | | | | |
| **libavif avifenc - 10 (sec)** | 2.423 | | | | |
| **Standard Deviation** | 1.1% | | | | |
| **libavif avifenc - 6, Lossless (sec)** | 34.238 | | | | |
| **Standard Deviation** | 0.5% | | | | |
| **Timed Apache Compilation - Time To Compile (sec)** | **21.729** | | | **61.633** | 22.450 |
| **Normalized** | 100% | | | 35.26% | 96.79% |
| **Standard Deviation** | 0.1% | | | 0.1% | 0.8% |
| **Timed FFmpeg Compilation - Time To Compile (sec)** | **34.741** | | 37.628 | | **46.540** |
| **Normalized** | 100% | | 92.33% | | 74.65% |
| **Standard Deviation** | 0.2% | | 0.4% | | 1.1% |
| **Timed LLVM Compilation - Ninja (sec)** | | 407.908 | **376.846** | **1046** | 467.564 |
| **Normalized** | | 92.39% | 100% | 36.01% | 80.6% |
| **Standard Deviation** | | 0.4% | 0.2% | 0.8% | 0.3% |
| **Timed LLVM Compilation - Unix Makefiles (sec)** | | 470.755 | **428.505** | **2676** | 512.243 |
| **Normalized** | | 91.03% | 100% | 16.01% | 83.65% |
| **Standard Deviation** | | 0.4% | 2.3% | 0.3% | 1.2% |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **Timed PHP Compilation - Time To Compile (sec)** | 51.839 | 35.084 | 48.191 | | |
| **Normalized** | 67.68% | 100% | 72.8% | | |
| **Standard Deviation** | 0% | 3.3% | 0.6% | | |
| **C-Ray - Total Time - 4.1.R.P.P (sec)** | 30.038 | 60.321 | 39.642 | 97.227 | 44.974 |
| **Normalized** | 100% | 49.8% | 75.77% | 30.89% | 66.79% |
| **Standard Deviation** | 0% | 0.1% | 0.3% | 0.2% | 0.2% |
| **Primesieve - 1.P.N.G (sec)** | 11.549 | 18.066 | 13.864 | 24.501 | 14.667 |
| **Normalized** | 100% | 63.93% | 83.3% | 47.14% | 78.74% |
| **Standard Deviation** | 0.2% | 0.2% | 0.4% | 0.4% | 0.1% |
| **Numpy Benchmark (Score)** | 415.13 | | | | |
| **Standard Deviation** | 0.3% | | | | |
| **Gzip Compression - L.S.T.A.T.t.g (sec)** | 2.365 | | | | |
| **Standard Deviation** | 0.8% | | | | |
| **XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)** | 17.730 | 22.675 | 20.648 | 28.865 | 29.554 |
| **Normalized** | 100% | 78.19% | 85.87% | 61.42% | 59.99% |
| **Standard Deviation** | 0.3% | 5.3% | 0.7% | 1.2% | 0.3% |
| **FLAC Audio Encoding - WAV To FLAC (sec)** | 15.476 | 24.247 | 20.168 | 42.725 | 32.154 |
| **Normalized** | 100% | 63.83% | 76.74% | 36.22% | 48.13% |
| **Standard Deviation** | 0.2% | 0.1% | 0.5% | 0% | 0.3% |
| **LAME MP3 Encoding - WAV To MP3 (sec)** | 8.759 | 14.388 | 30.519 | 18.476 | 10.247 |
| **Normalized** | 100% | 60.88% | 28.7% | 47.41% | 85.48% |
| **Standard Deviation** | 0.3% | 0.5% | 0% | 0.3% | 0% |
| **Opus Codec Encoding - WAV To Opus Encode (sec)** | 8.645 | | 9.933 | | |
| **Normalized** | 100% | | 87.03% | | |
| **Standard Deviation** | 0.9% | | 1.7% | | |
| **Helsing - 12 digit (sec)** | 2.904 | 4.852 | 3.114 | 5.998 | 3.167 |
| **Normalized** | 100% | 59.85% | 93.26% | 48.42% | 91.7% |
| **Standard Deviation** | 0.3% | 0.2% | 0.1% | 0.3% | 0.1% |
| **Helsing - 14 digit (sec)** | 282.245 | 474.410 | 324.738 | 568.883 | 304.826 |
| **Normalized** | 100% | 59.49% | 86.91% | 49.61% | 92.59% |
| **Standard Deviation** | 0% | 0% | 0% | 0.1% | 0% |
| **Perl Benchmarks - Pod2html** | 0.09965131 | 0.18632822 | 0.12863042 | | 0.13567428 |
| **Normalized** | 100% | 53.48% | 77.47% | | 73.45% |
| **Standard Deviation** | 0.2% | 0.2% | 0.3% | | 0.3% |
| **Perl Benchmarks - Interpreter** | 0.00094395 | 0.00189465 | 0.00187436 | | 0.00245352 |
| **Normalized** | 100% | 49.82% | 50.36% | | 38.47% |
| **Standard Deviation** | 0.1% | 0.1% | 0.4% | | 0.5% |
| **VOSK Speech Recognition Toolkit (sec)** | 20.136 | | | | |
| **Standard Deviation** | 0.3% | | | | |
| **OpenSSL - SHA256 (byte/s)** | 6041739093 | 4742085283 | 5886392800 | | 5789648853 |
| **Normalized** | 100% | 78.49% | 97.43% | | 95.83% |
| **Standard Deviation** | 0% | 0% | 0% | | 0% |
| **OpenSSL - RSA4096 (sign/s)** | 5230 | 4092 | 5463 | | 5222 |
| **Normalized** | 95.74% | 74.9% | 100% | | 95.6% |
| **Standard Deviation** | 0.1% | 0% | 0% | | 0.6% |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **OpenSSL - RSA4096 (verify/s)** | 344489 | 272715 | 358050 | | 343736 |
| **Normalized** | 96.21% | 76.17% | 100% | | 96% |
| **Standard Deviation** | 0.1% | 0% | 0% | | 0.1% |
| **Node.js V8 Web Tooling Benchmark (runs/s)** | 13.88 | | | | |
| **Standard Deviation** | 0.4% | | | | |
| **libjpeg-turbo tjbench - D.T (Megapixels/sec)** | 221.630203 | 137.718634 | 180.181478 | 97.575300 | 170.863265 |
| **Normalized** | 100% | 62.14% | 81.3% | 44.03% | 77.09% |
| **Standard Deviation** | 0.2% | 0% | 0% | 0.4% | 0.7% |
| **GROMACS - MPI CPU - water_GMX50_bare (Ns/Day)** | 1.606 | | | | |
| **Standard Deviation** | 0.2% | | | | |
| **SQLite Speedtest - Timed Time - Size 1,000 (sec)** | 55.353 | 131.297 | 84.333 | 243.095 | 488.364 |
| **Normalized** | 100% | 42.16% | 65.64% | 22.77% | 11.33% |
| **Standard Deviation** | 0.1% | 0.9% | 1% | 0.1% | 0.1% |
| **GIMP - resize (sec)** | 6.643 | 12.712 | | | |
| **Normalized** | 100% | 52.26% | | | |
| **Standard Deviation** | 1.1% | 4.9% | | | |
| **GIMP - rotate (sec)** | 10.079 | 18.852 | | | |
| **Normalized** | 100% | 53.46% | | | |
| **Standard Deviation** | 0.1% | 0% | | | |
| **GIMP - auto-levels (sec)** | 11.413 | 20.783 | | | |
| **Normalized** | 100% | 54.92% | | | |
| **Standard Deviation** | 0.7% | 0.4% | | | |
| **GIMP - unsharp-mask (sec)** | 14.343 | 24.693 | | | |
| **Normalized** | 100% | 58.09% | | | |
| **Standard Deviation** | 0.8% | 0.9% | | | |
| **GNU Octave Benchmark (sec)** | 5.691 | | | | |
| **Standard Deviation** | 0.6% | | | | |
| **RawTherapee - T.B.T (sec)** | 52.261 | | | | |
| **Standard Deviation** | 0.1% | | | | |
| **Stress-NG - MMAP (Bogo Ops/s)** | 469.00 | 732.72 | 1043 | 22.17 | 170.23 |
| **Normalized** | 44.96% | 70.24% | 100% | 2.13% | 16.32% |
| **Standard Deviation** | 2.5% | 0.5% | 0% | 0.2% | 0.6% |
| **Stress-NG - NUMA (Bogo Ops/s)** | 89.41 | | | | |
| **Standard Deviation** | 31.5% | | | | |
| **Stress-NG - MEMFD (Bogo** | 1021 | | | | |
| **Standard Deviation** | 0% | | | | |
| **Stress-NG - Atomic (Bogo Ops/s)** | 225751 | | | | |
| **Standard Deviation** | 1.4% | | | | |
| **Stress-NG - Crypto (Bogo Ops/s)** | 5015 | | | | |
| **Standard Deviation** | 0.1% | | | | |
| **Stress-NG - Malloc (Bogo Ops/s)** | 191861013 | 447652324 | 373026240 | 77762157 | 473886790 |
| **Normalized** | 40.49% | 94.46% | 78.72% | 16.41% | 100% |
| **Standard Deviation** | 0.1% | 0.7% | 0.1% | 0.1% | 0.5% |
| **Stress-NG - RdRand (Bogo** | 183671 | | 191007 | | 183300 |
| **Normalized** | 96.16% | | 100% | | 95.96% |
| **Standard Deviation** | 0% | | 0% | | 0% |
| **Stress-NG - Forking (Bogo** | 78137 | 37604 | 10338 | 1972 | 5447 |
| **Normalized** | 100% | 48.13% | 13.23% | 2.52% | 6.97% |
| **Standard Deviation** | 0.6% | 0.1% | 0% | 1.3% | 0.2% |
| **Stress-NG - IO_uring (Bogo Ops/s)** | 52341 | | | | |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **Standard Deviation** | 0.5% | | | | |
| **Stress-NG - SENDFILE (Bogo Ops/s)** | 338409 | | | | |
| **Standard Deviation** | 0.3% | | | | |
| **Stress-NG - CPU Cache (Bogo Ops/s)** | **109.26** | 2513 | 2603 | **2656** | 2627 |
| **Normalized** | 4.11% | 94.64% | 98.02% | 100% | 98.91% |
| **Standard Deviation** | 6.9% | 4.4% | 3.9% | 0.6% | 3.7% |
| **Stress-NG - CPU Stress (Bogo Ops/s)** | 37475 | **49560** | 38551 | **21529** | 34943 |
| **Normalized** | 75.62% | 100% | 77.79% | 43.44% | 70.51% |
| **Standard Deviation** | 0.8% | 0.4% | 0.2% | 0.1% | 0.1% |
| **Stress-NG - Semaphores (Bogo Ops/s)** | 3204110 | 42140118 | **57856144** | **14074** | 141098 |
| **Normalized** | 5.54% | 72.84% | 100% | 0.02% | 0.24% |
| **Standard Deviation** | 0.1% | 4.1% | 1.1% | 0.4% | 0.4% |
| **Stress-NG - Matrix Math (Bogo Ops/s)** | 84140 | 84607 | **111148** | **51348** | 87331 |
| **Normalized** | 75.7% | 76.12% | 100% | 46.2% | 78.57% |
| **Standard Deviation** | 1.1% | 0% | 0.1% | 0% | 0.4% |
| **Stress-NG - Vector Math (Bogo Ops/s)** | **69484** | 64333 | 59649 | **39653** | 55920 |
| **Normalized** | 100% | 92.59% | 85.84% | 57.07% | 80.48% |
| **Standard Deviation** | 0% | 0.1% | 0% | 0% | 0.2% |
| **Stress-NG - Memory Copying (Bogo Ops/s)** | **2184** | 2589 | 2631 | **6705** | 2542 |
| **Normalized** | 32.58% | 38.62% | 39.24% | 100% | 37.92% |
| **Standard Deviation** | 1.1% | 0.4% | 0.2% | 1.8% | 1.4% |
| **Stress-NG - Socket Activity (Bogo Ops/s)** | **12191** | 2671 | 4839 | **17.57** | 238.72 |
| **Normalized** | 100% | 21.91% | 39.69% | 0.14% | 1.96% |
| **Standard Deviation** | 0.8% | 2.2% | 0.3% | 0.2% | 0.5% |
| **Stress-NG - Context Switching (Bogo Ops/s)** | 4478230 | 39637619 | **43974729** | **224249** | 8715365 |
| **Normalized** | 10.18% | 90.14% | 100% | 0.51% | 19.82% |
| **Standard Deviation** | 4% | 2.8% | 0.4% | 1.1% | 11.7% |
| **Stress-NG - G.C.S.F (Bogo** | **2637459** | 141553 | 156765 | **141336** | 447200 |
| **Normalized** | 100% | 5.37% | 5.94% | 5.36% | 16.96% |
| **Standard Deviation** | 2.5% | 0% | 0% | 0.1% | 0.5% |
| **Stress-NG - G.Q.D.S (Bogo** | 308.40 | 381.46 | **812.33** | **51.44** | 613.48 |
| **Normalized** | 37.96% | 46.96% | 100% | 6.33% | 75.52% |
| **Standard Deviation** | 0.1% | 0.1% | 0% | 0% | 0.1% |
| **Stress-NG - S.V.M.P (Bogo** | 7370290 | 16493783 | **23736854** | **5632207** | 8957612 |
| **Normalized** | 31.05% | 69.49% | 100% | 23.73% | 37.74% |
| **Standard Deviation** | 0.1% | 0.9% | 1.1% | 39.9% | 22.6% |
| **Blender - BMW27 - CPU-Only (sec)** | 80.03 | | | | |
| **Standard Deviation** | 0.4% | | | | |
| **Blender - Fishy Cat - CPU-Only (sec)** | 113.02 | | | | |
| **Standard Deviation** | 0.4% | | | | |

# Clear Compare BSD

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|---|---|---|---|---|---|
| **Blender - Barbershop - CPU-Only (sec)** | 369.04 | | | | |
| **Standard Deviation** | 0.5% | | | | |
| **PyBench - T.F.A.T.T** | **932** | 2158 | 1456 | **8523** | |
| **Normalized** | 100% | 43.19% | 64.01% | 10.94% | |
| **Standard Deviation** | 0.1% | 0.2% | 0.2% | 0.1% | |
| **PyPerformance - go** | 186 | **535** | 334 | **1.81** | 365 |
| **Normalized** | 0.97% | 0.34% | 0.54% | 100% | 0.5% |
| **Standard Deviation** | 0.3% | 0.1% | 0.2% | 0% | 0% |
| **PyPerformance - 2to3 (Milliseconds)** | 268 | **570** | 402 | **1.91** | 447 |
| **Normalized** | 0.71% | 0.34% | 0.48% | 100% | 0.43% |
| **Standard Deviation** | 0% | 0% | 0.1% | 0% | 0% |
| **PyPerformance - chaos (Milliseconds)** | **88.6** | 246 | 164 | **929** | 178 |
| **Normalized** | 100% | 36.02% | 54.02% | 9.54% | 49.78% |
| **Standard Deviation** | 0.1% | 0.2% | 0.4% | 0.1% | 0.3% |
| **PyPerformance - float (Milliseconds)** | 88.9 | **221** | 156 | **1.02** | 170 |
| **Normalized** | 1.15% | 0.46% | 0.65% | 100% | 0.6% |
| **Standard Deviation** | 0.1% | 0% | 0% | 0.6% | 0.3% |
| **PyPerformance - nbody (Milliseconds)** | 128 | **289** | 199 | **1.16** | 207 |
| **Normalized** | 0.91% | 0.4% | 0.58% | 100% | 0.56% |
| **Standard Deviation** | 0% | 0% | 0.3% | 0% | 0% |
| **PyPerformance - pathlib (Milliseconds)** | **13.6** | 38 | 29.8 | **148** | 34.1 |
| **Normalized** | 100% | 35.79% | 45.64% | 9.19% | 39.88% |
| **Standard Deviation** | 0% | 0% | 0.2% | 0% | 0.2% |
| **PyPerformance - raytrace (Milliseconds)** | 396 | **1.14** | 727 | 4.27 | **833** |
| **Normalized** | 0.29% | 100% | 0.16% | 26.7% | 0.14% |
| **Standard Deviation** | 0.3% | 0% | 0.1% | 0% | 0.2% |
| **PyPerformance - json_loads (Milliseconds)** | **24.5** | 51.9 | 36.4 | **163** | 43.2 |
| **Normalized** | 100% | 47.21% | 67.31% | 15.03% | 56.71% |
| **Standard Deviation** | 0.2% | 0.1% | 0% | 0% | 0% |
| **PyPerformance - crypto_pyaes (Milliseconds)** | 98.0 | **229** | 149 | **1** | 171 |
| **Normalized** | 1.02% | 0.44% | 0.67% | 100% | 0.58% |
| **Standard Deviation** | 0.2% | 0% | 0% | 0% | 0.3% |
| **PyPerformance - regex_compile (Milliseconds)** | 138 | **324** | 222 | **1.16** | 247 |
| **Normalized** | 0.84% | 0.36% | 0.52% | 100% | 0.47% |
| **Standard Deviation** | 0% | 0% | 0% | 0% | 0% |
| **PyPerformance - python_startup (Milliseconds)** | **8.13** | 14 | 12.9 | **52.8** | 13.3 |
| **Normalized** | 100% | 58.07% | 63.02% | 15.4% | 61.13% |
| **Standard Deviation** | 0.1% | 0% | 0.8% | 0% | 0% |
| **PyPerformance - django_template (Milliseconds)** | **37.2** | 105 | 69.0 | **381** | 77.1 |
| **Normalized** | 100% | 35.43% | 53.91% | 9.76% | 48.25% |
| **Standard Deviation** | 0.3% | 0% | 0.1% | 0% | 0.1% |

# Clear Compare BSD

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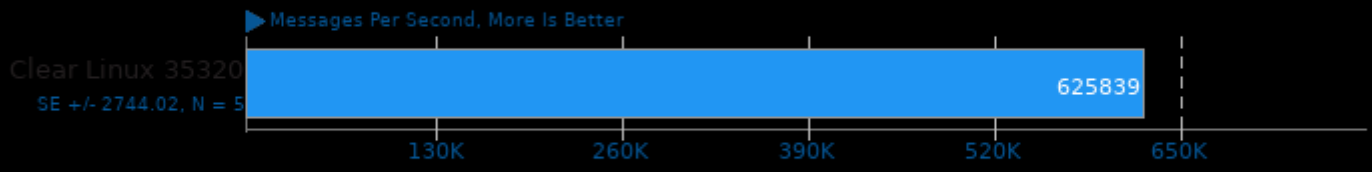
|---|---|---|---|---|---|
| **PyPerformance - pickle_pure_python** | 369 | **972** | 631 | **3.66** | 712 |
| **Normalized** | 0.99% | 0.38% | 0.58% | 100% | 0.51% |
| **Standard Deviation** | 0.3% | 0.2% | 0% | 0.2% | 0.1% |
| **nginx - 100 (Reqs/sec)** | **339631** | 199.91 | 218.31 | **18.15** | |
| **Normalized** | 100% | 0.06% | 0.06% | 0.01% | |
| **Standard Deviation** | 0.2% | 0.5% | 17.3% | 14.6% | |
| **nginx - 200 (Reqs/sec)** | **341724** | **202.36** | 236.82 | 84557 | |
| **Normalized** | 100% | 0.06% | 0.07% | 24.74% | |
| **Standard Deviation** | 0.2% | 0.8% | 12.6% | 4.8% | |
| **nginx - 500 (Reqs/sec)** | **339441** | **204.62** | 262.00 | 71562 | |
| **Normalized** | 100% | 0.06% | 0.08% | 21.08% | |
| **Standard Deviation** | 0.3% | 1% | 14.3% | 8.1% | |
| **nginx - 1000 (Reqs/sec)** | **333537** | **211.35** | 257.86 | 75677 | |
| **Normalized** | 100% | 0.06% | 0.08% | 22.69% | |
| **Standard Deviation** | 0.1% | 1.3% | 13.5% | 8.7% | |
| **Apache HTTP Server - 100 (Reqs/sec)** | **110732** | | | **2721** | |
| **Normalized** | 100% | | | 2.46% | |
| **Standard Deviation** | 0.8% | | | 0.6% | |
| **Apache HTTP Server - 200 (Reqs/sec)** | **125362** | | | **8732** | |
| **Normalized** | 100% | | | 6.97% | |
| **Standard Deviation** | 1.2% | | | 3.2% | |
| **Apache HTTP Server - 500 (Reqs/sec)** | **121891** | | | **8816** | |
| **Normalized** | 100% | | | 7.23% | |
| **Standard Deviation** | 0.6% | | | 7.2% | |
| **Apache HTTP Server - 1000 (Reqs/sec)** | **120095** | | | **9011** | |
| **Normalized** | 100% | | | 7.5% | |
| **Standard Deviation** | 0.6% | | | 9.6% | |
| **PHPBench - P.B.S (Score)** | **1055611** | 440359 | 716898 | **92336** | 289230 |
| **Normalized** | 100% | 41.72% | 67.91% | 8.75% | 27.4% |
| **Standard Deviation** | 0.1% | 0% | 0.1% | 0.1% | 0.3% |
| **Git - T.T.C.C.G.C (sec)** | **53.266** | 83.330 | 79.462 | **223.183** | |
| **Normalized** | 100% | 63.92% | 67.03% | 23.87% | |
| **Standard Deviation** | 0.1% | 0.3% | 0.4% | 0.2% | |
| **Zstd Compression - 3 - D.S** | | 2381 | 2734 | **1988** | **2844** |
| **Normalized** | | 83.72% | 96.14% | 69.92% | 100% |
| **Standard Deviation** | | 0.3% | 0.4% | 1.8% | 0.4% |
| **GIMP - resize (sec)** | | | 11.319 | | |
| **Standard Deviation** | | | 1.7% | | |
| **GIMP - rotate (sec)** | | | 15.847 | | |
| **Standard Deviation** | | | 0.1% | | |
| **GIMP - auto-levels (sec)** | | | 22.003 | | |
| **Standard Deviation** | | | 2.6% | | |
| **GIMP - unsharp-mask (sec)** | | | 31.893 | | |
| **Standard Deviation** | | | 1.6% | | |
| **Build2 - Time To Compile (sec)** | | | | | 99.635 |
| **Standard Deviation** | | | | | 0.4% |

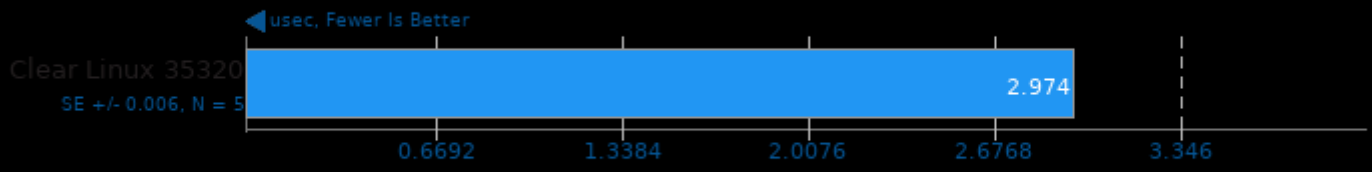
# Clear Compare BSD

## Sockperf 3.7
Test: Throughput



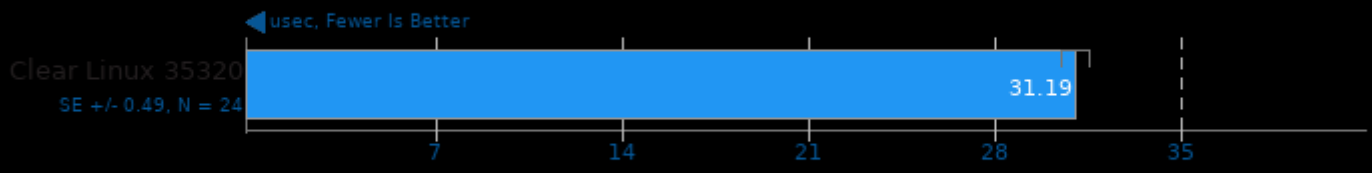

1. (CXX) g++ options: -param -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -rdynamic

## Sockperf 3.7
Test: Latency Ping Pong



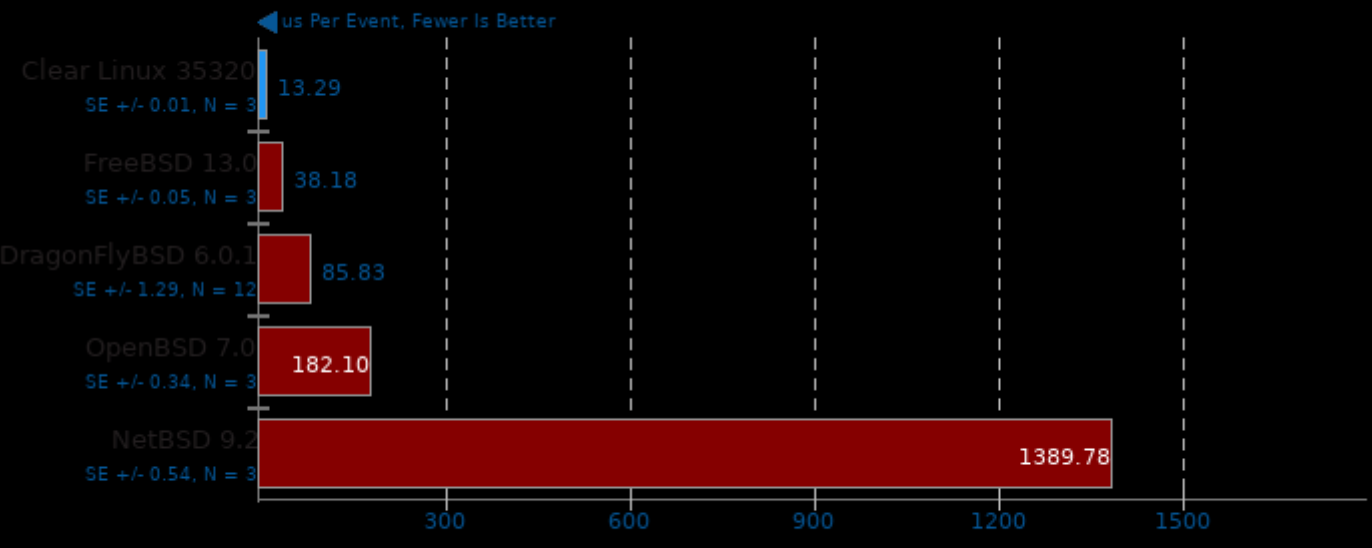

1. (CXX) g++ options: -param -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -rdynamic

## Sockperf 3.7
Test: Latency Under Load



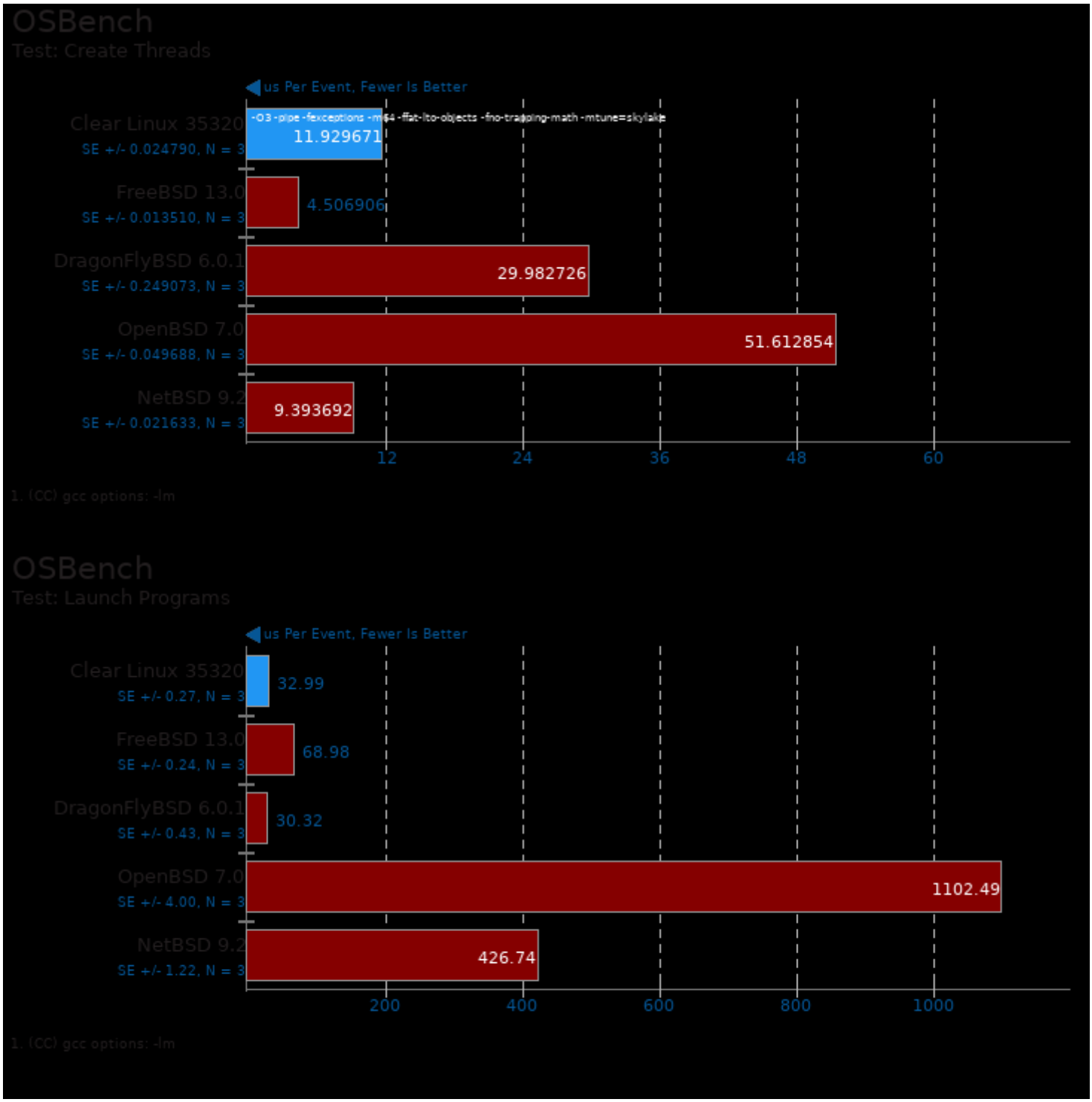

1. (CXX) g++ options: -param -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -rdynamic

## OSBench
Test: Create Files

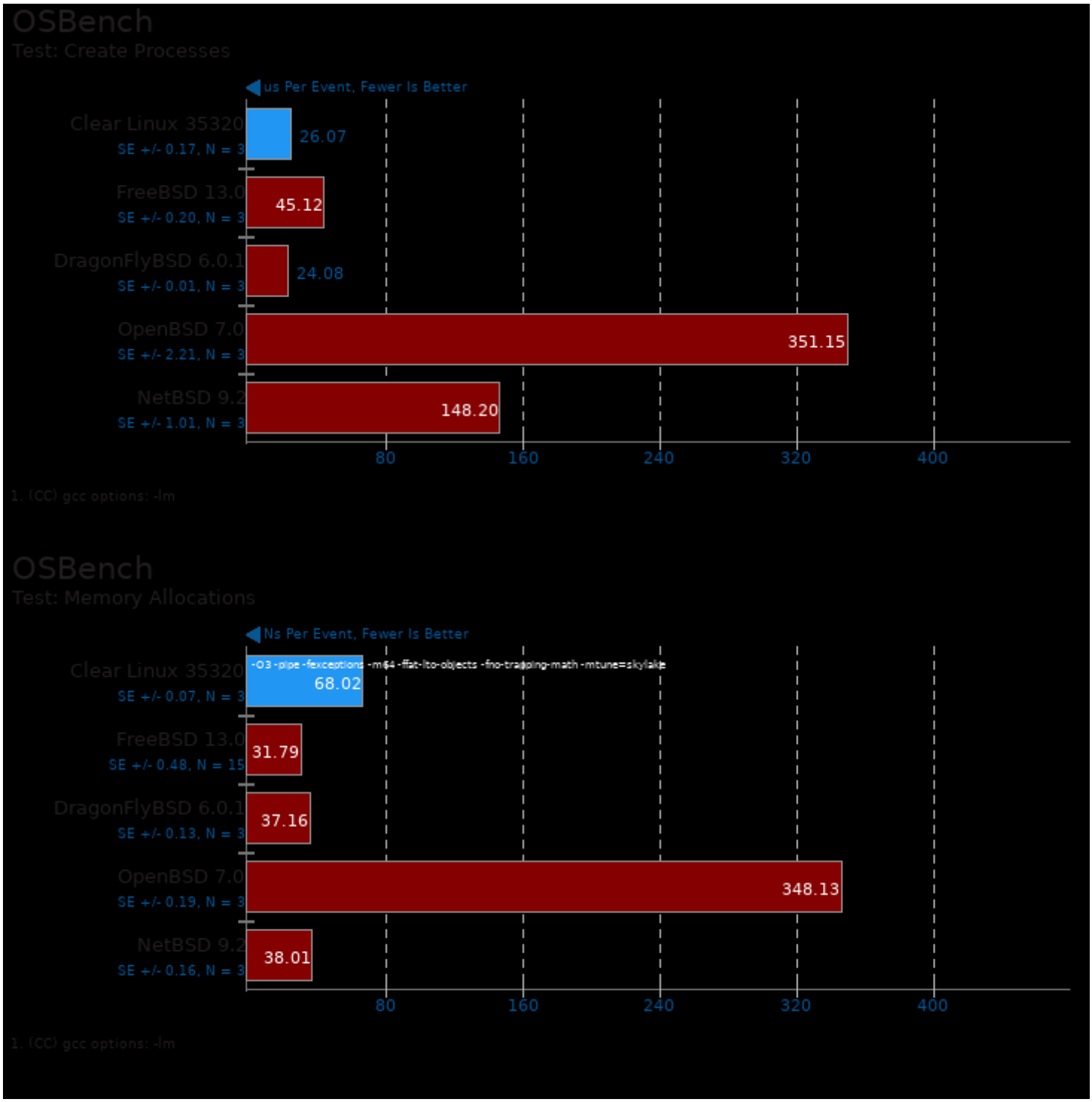



1. (CC) gcc options: -lm

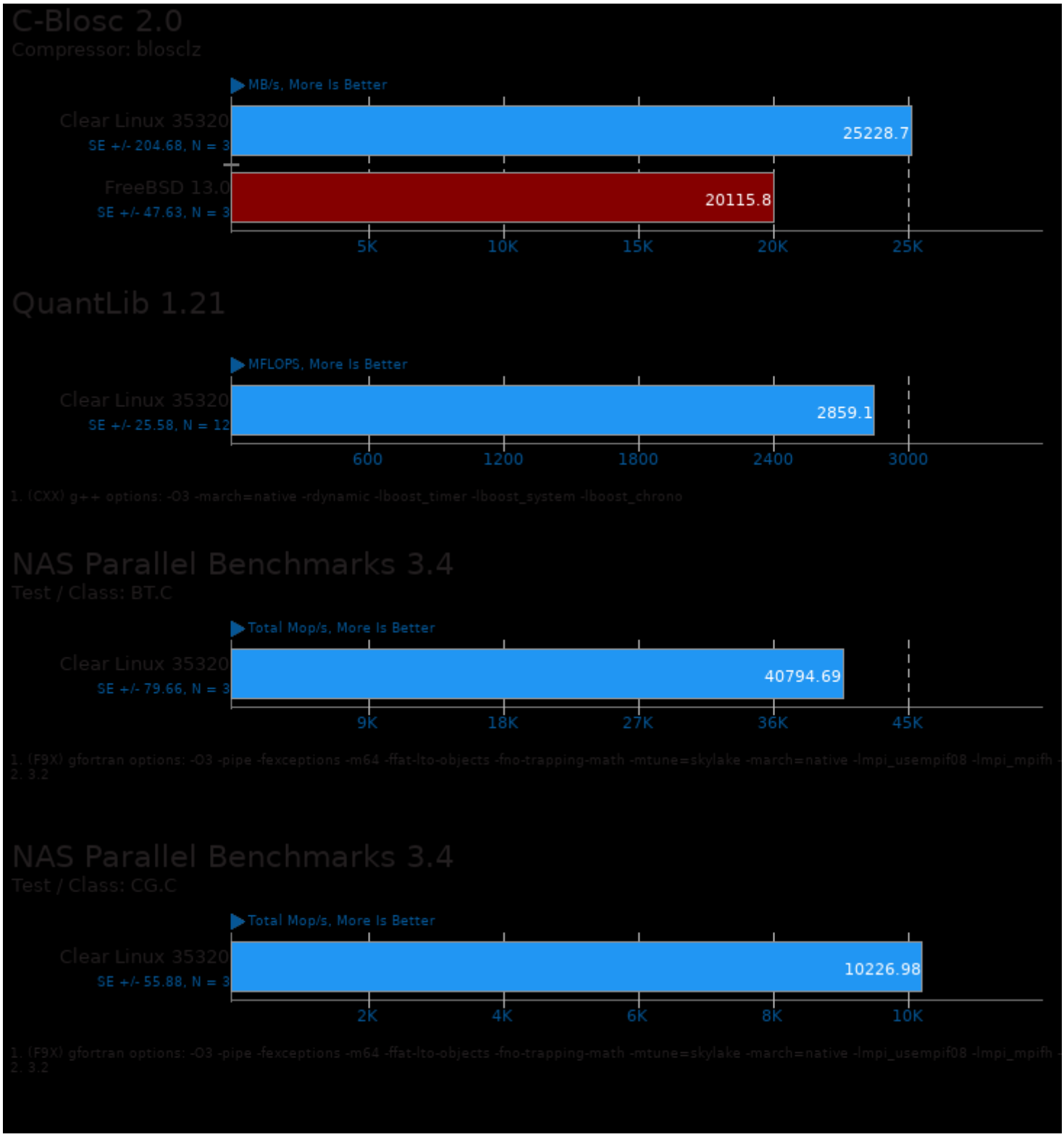
# Clear Compare BSD



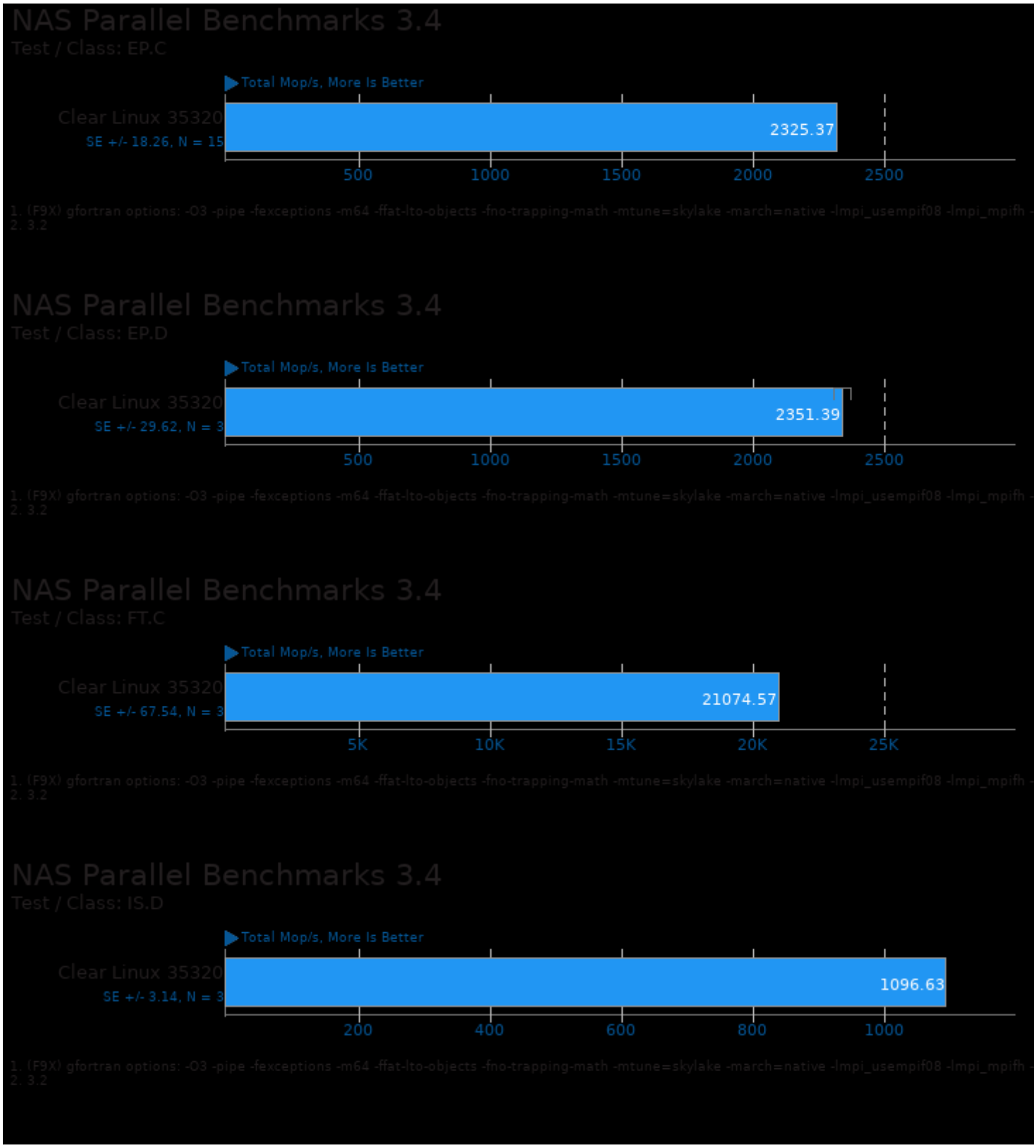
# Clear Compare BSD



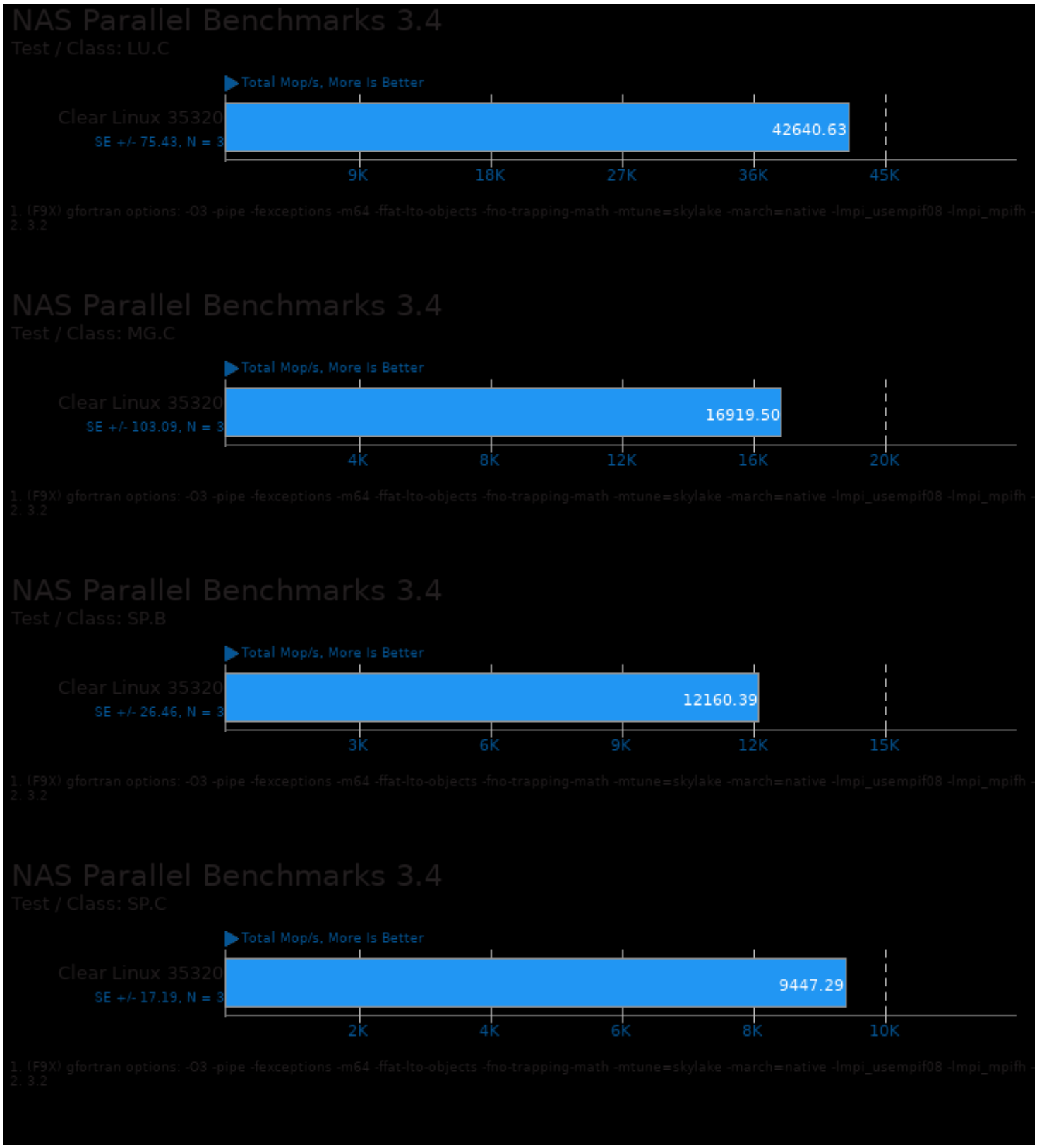
# Clear Compare BSD



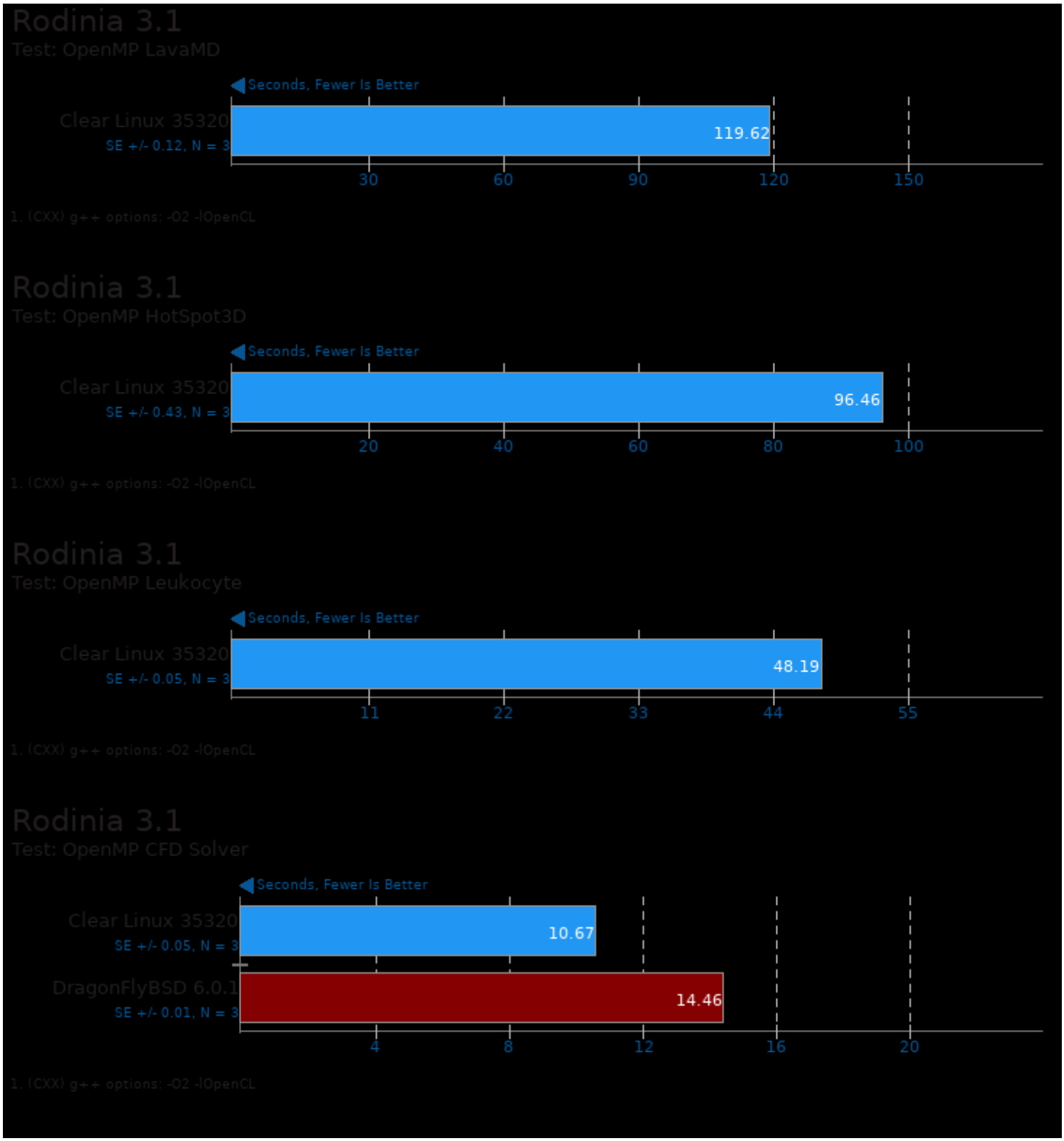
# Clear Compare BSD



# Clear Compare BSD



# Clear Compare BSD



# Clear Compare BSD

## Rodinia 3.1

Test: OpenMP Streamcluster


1. (CXX) g++ options: -O2 -lOpenCL

## Dolfyn 0.527

Computational Fluid Dynamics

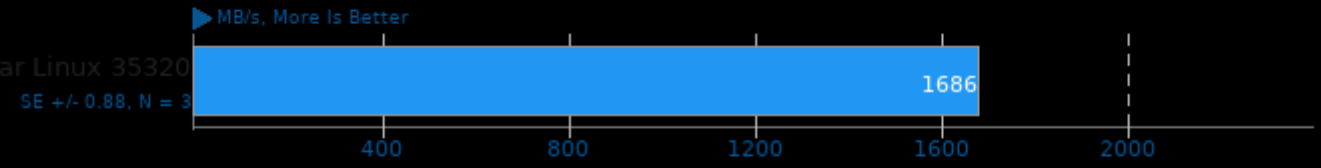

## lzbench 1.8

Test: Zstd 8 - Process: Compression


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

## lzbench 1.8

Test: Zstd 8 - Process: Decompression




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

## lzbench 1.8

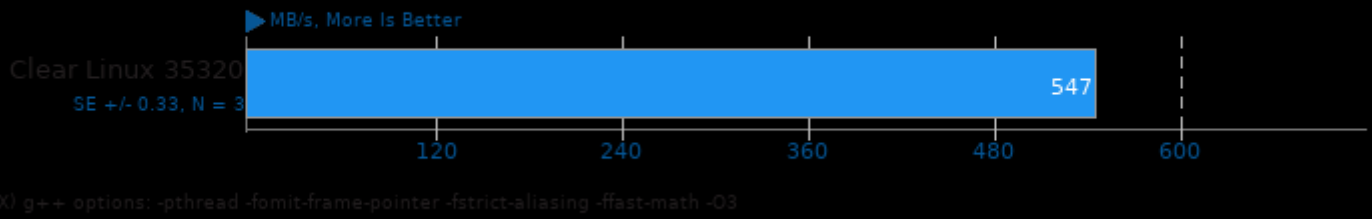
Test: Crush 0 - Process: Compression


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

# Clear Compare BSD

## lzbench 1.8

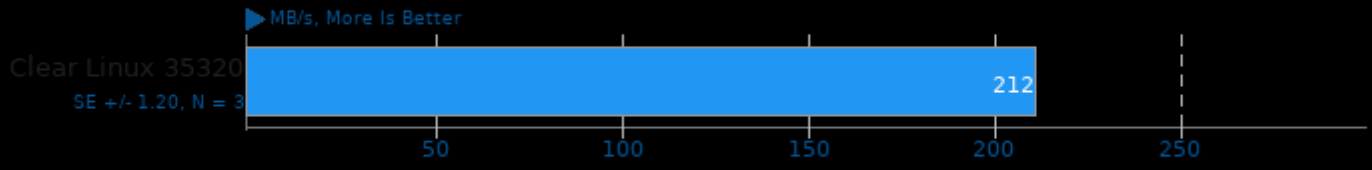
Test: Crush 0 - Process: Decompression




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

## lzbench 1.8

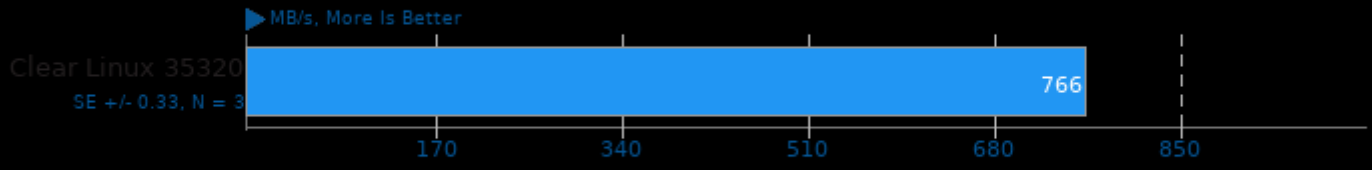
Test: Brotli 2 - Process: Compression




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

## lzbench 1.8

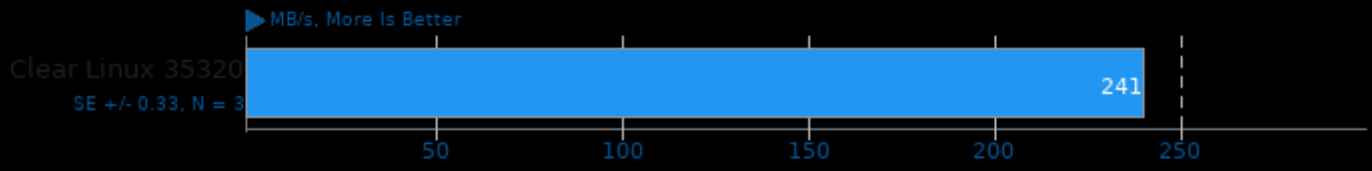
Test: Brotli 2 - Process: Decompression




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

## lzbench 1.8

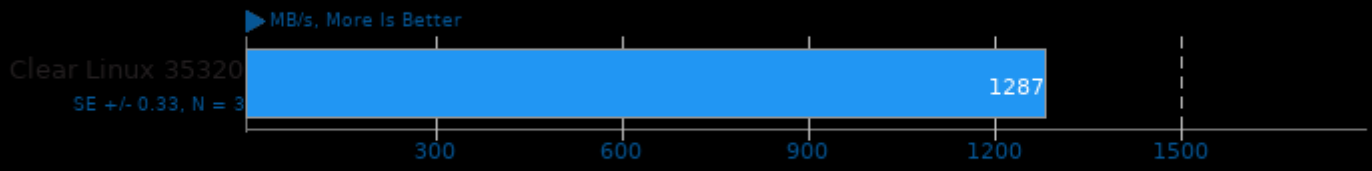
Test: Libdeflate 1 - Process: Compression




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

## lzbench 1.8

Test: Libdeflate 1 - Process: Decompression

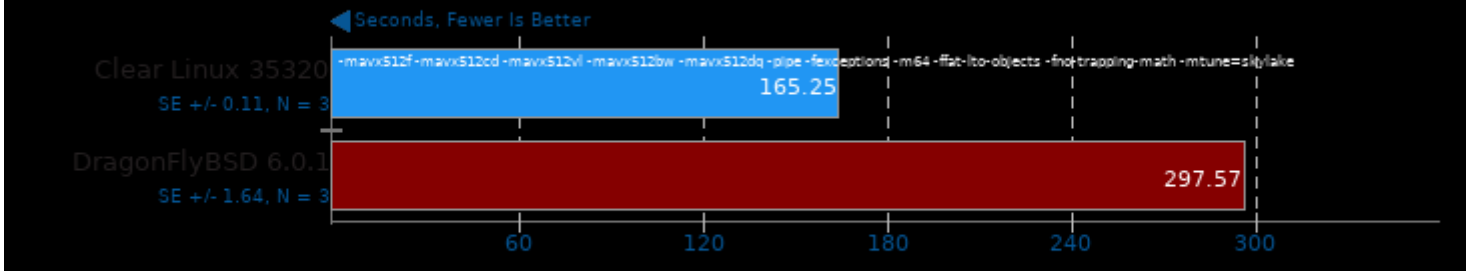



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

# Clear Compare BSD

## Timed MrBayes Analysis 3.2.7

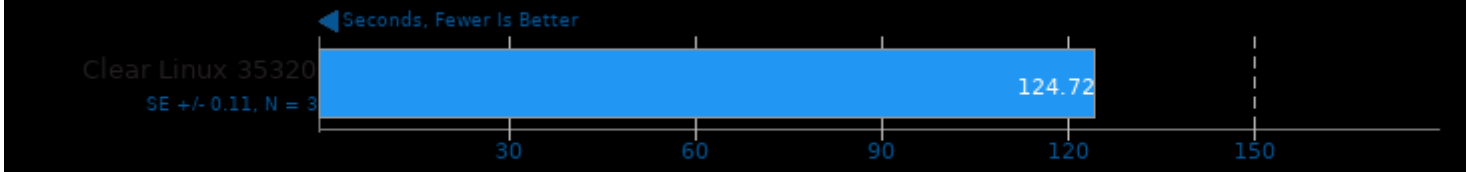
Primate Phylogeny Analysis




1. (CC) gcc options: -mmmx -msse -msse2 -msse3 -mssse3 -msse4.1 -msse4.2 -maes -mavx -mfma -mavx2 -mrdrnd -mbmi -mbmi2 -madx -mmpx -mabm

## Timed HMMer Search 3.3.2

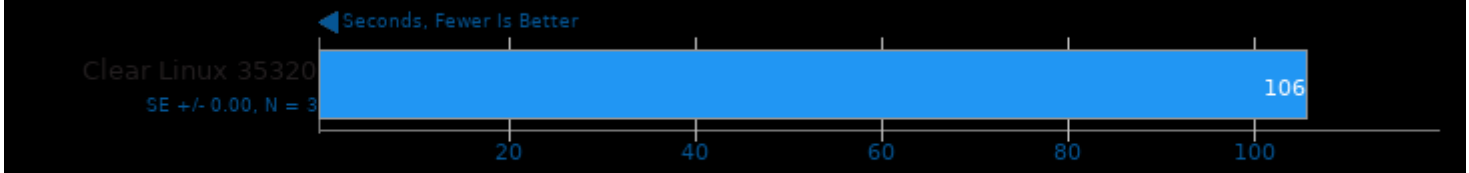
Pfam Database Search




1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -pthread -lhmmer -leasel -lmpi -lm

## Monte Carlo Simulations of Ionised Nebulae 2019-03-24

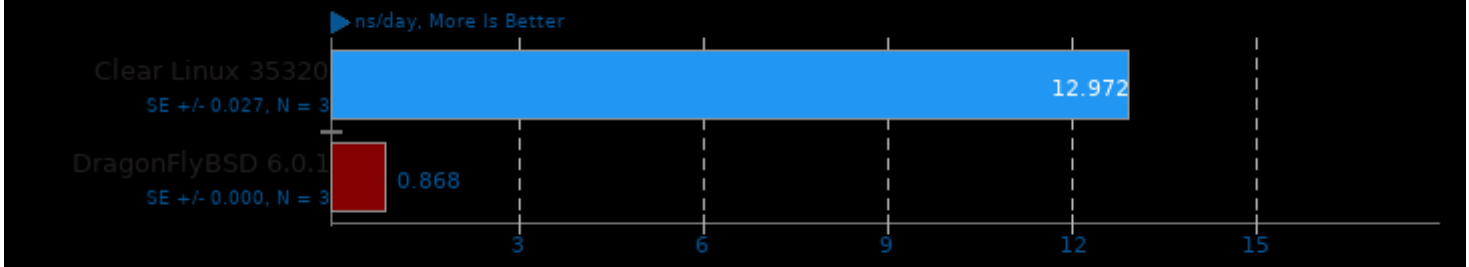
Input: Dust 2D tau100.0




1. (F9X) gfortran options: -O3 -pipe -fexceptions -m64 -malign-data=abi -ftree-vectorize -cpp -Jsource/ -ffree-line-length-0 -lm -std=legacy -O2 -lmpi_use

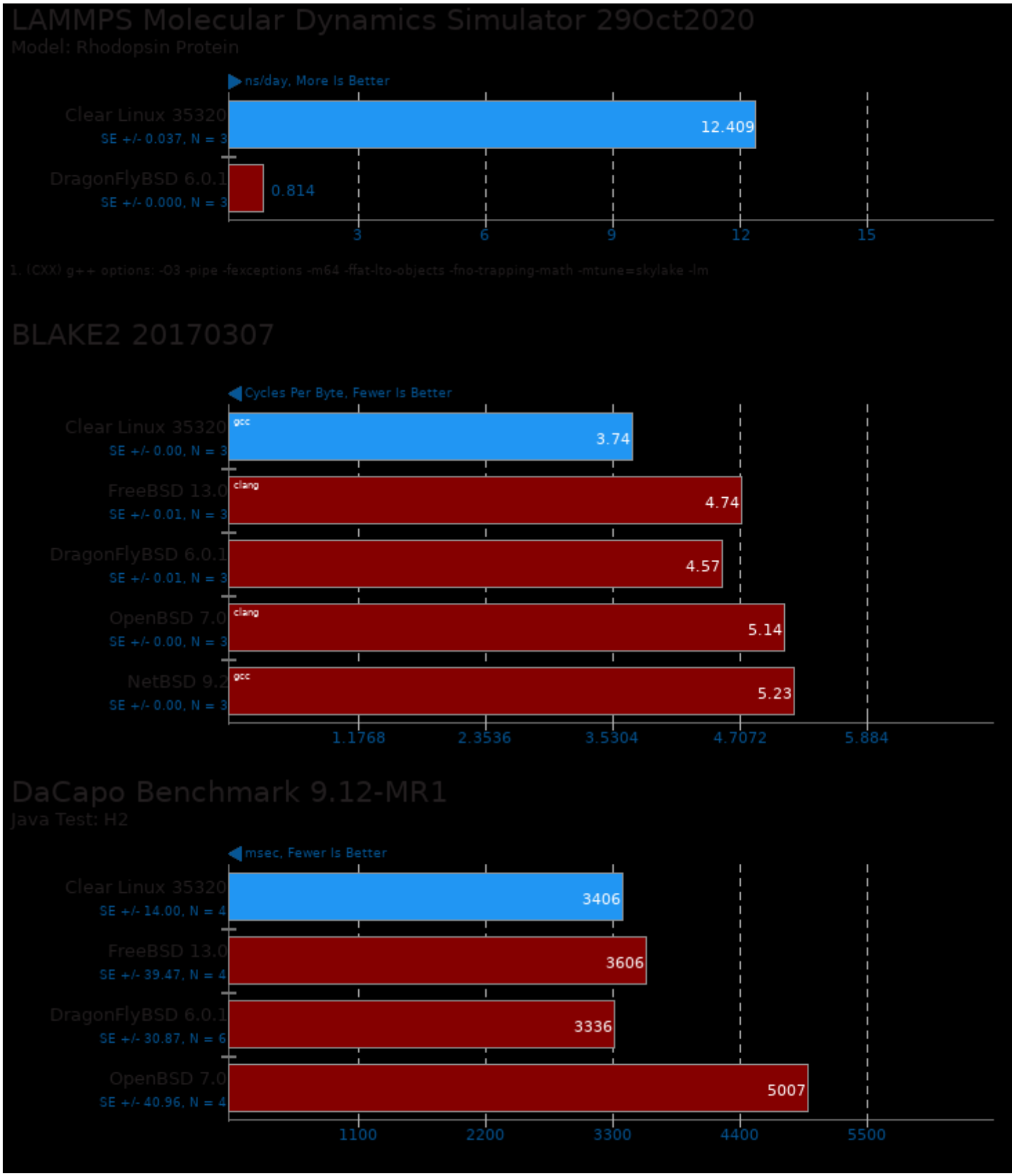
## LAMMPS Molecular Dynamics Simulator 29Oct2020

Model: 20k Atoms

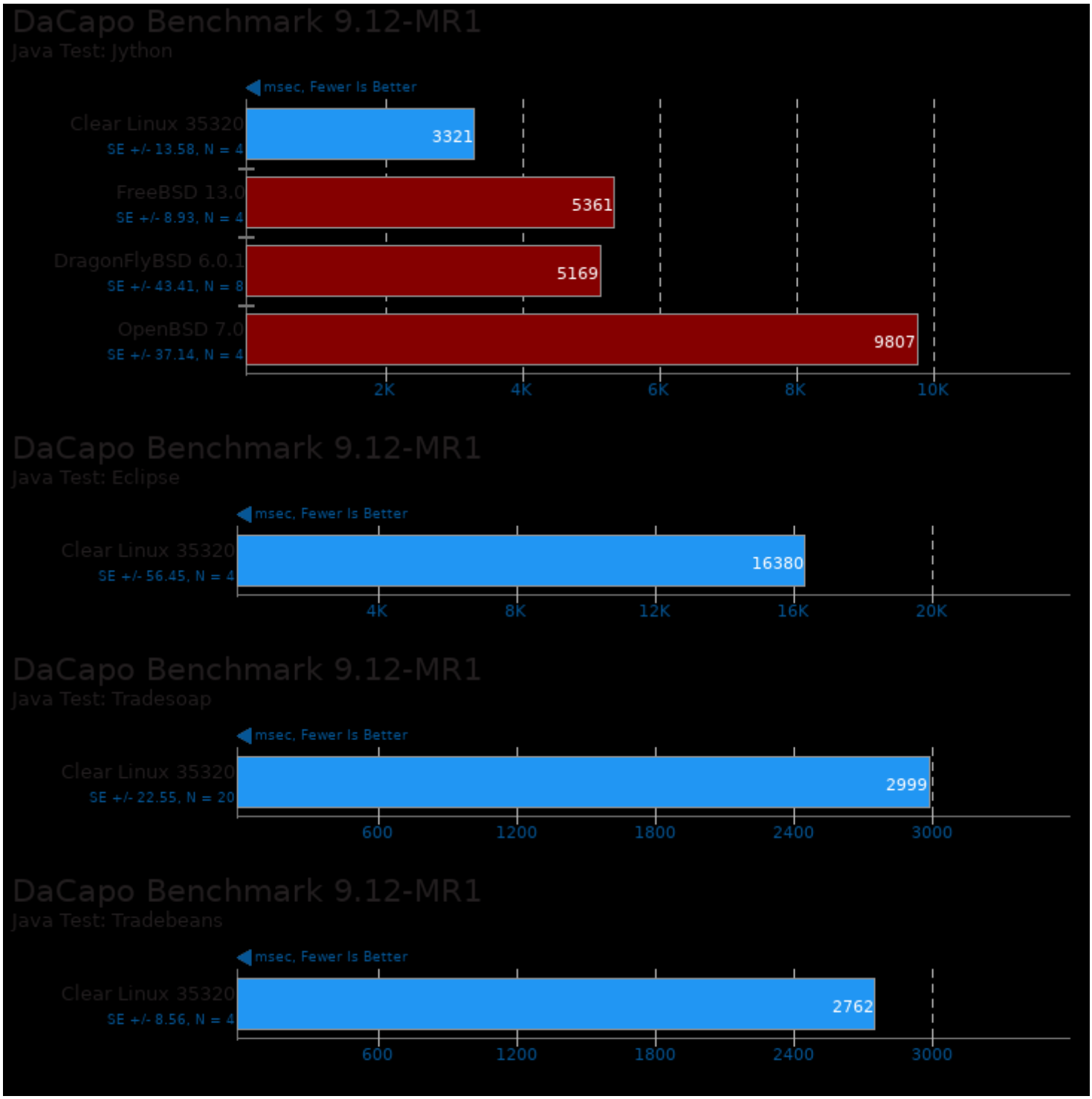



1. (CXX) g++ options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -lm

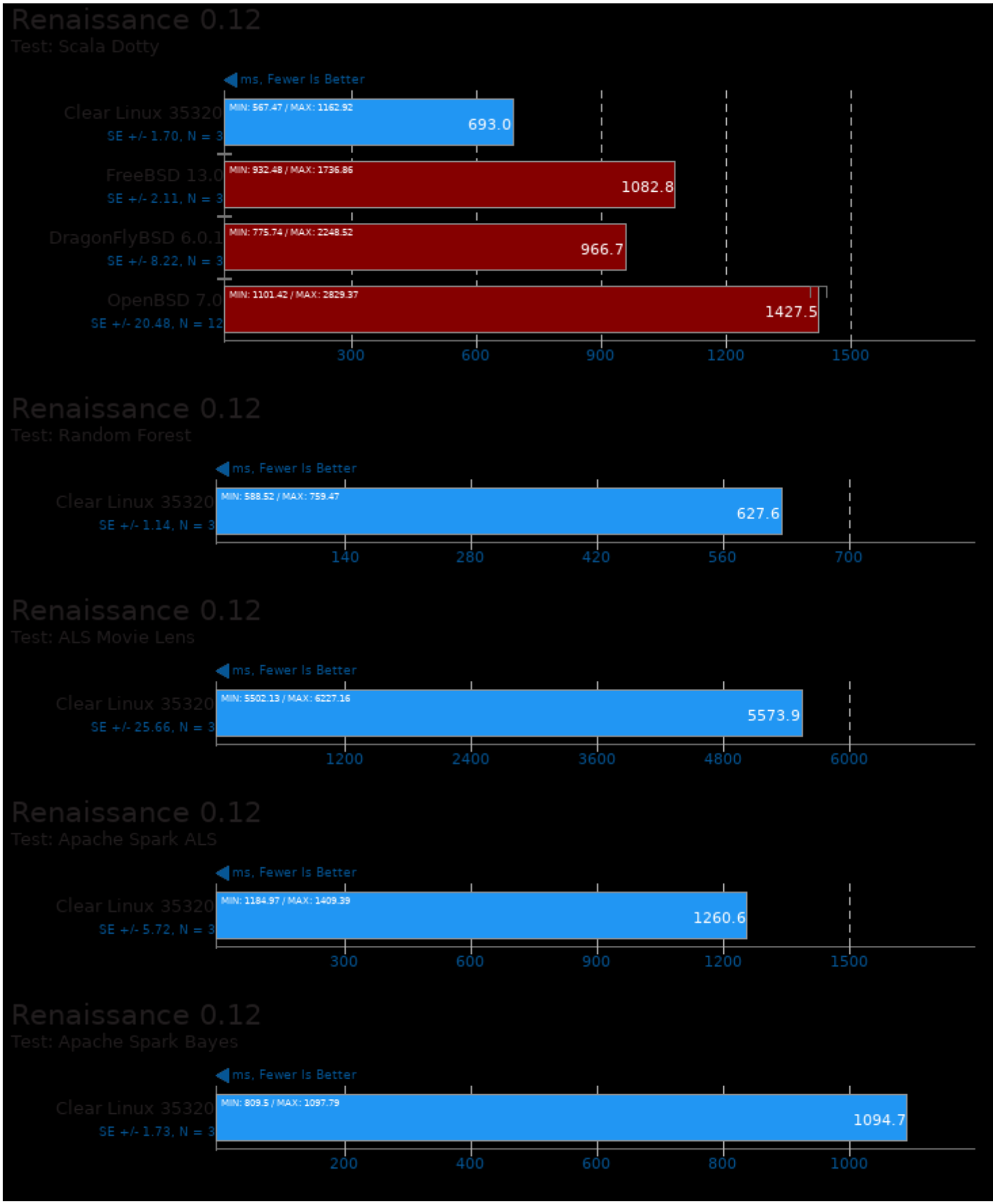
# Clear Compare BSD



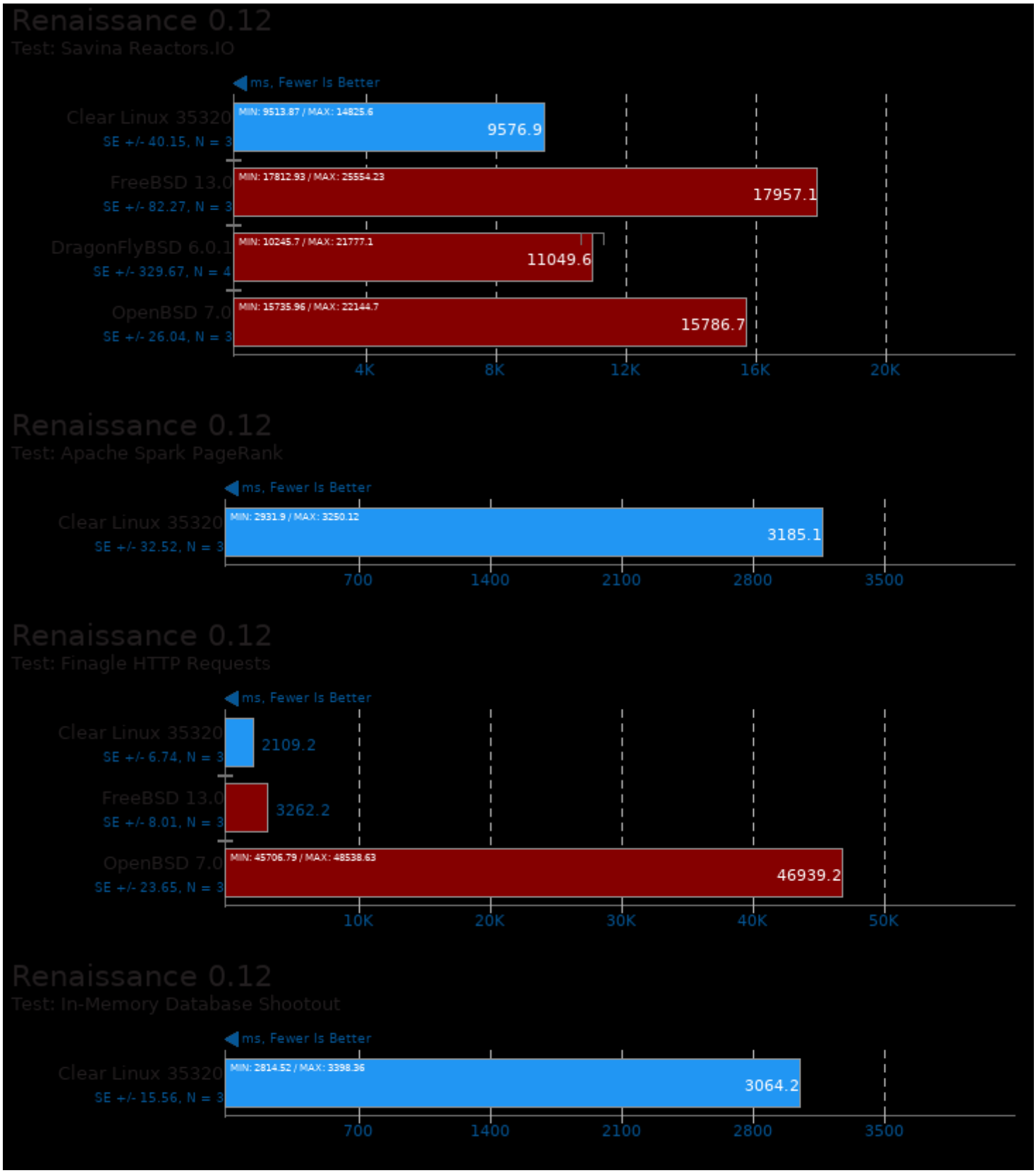
# Clear Compare BSD



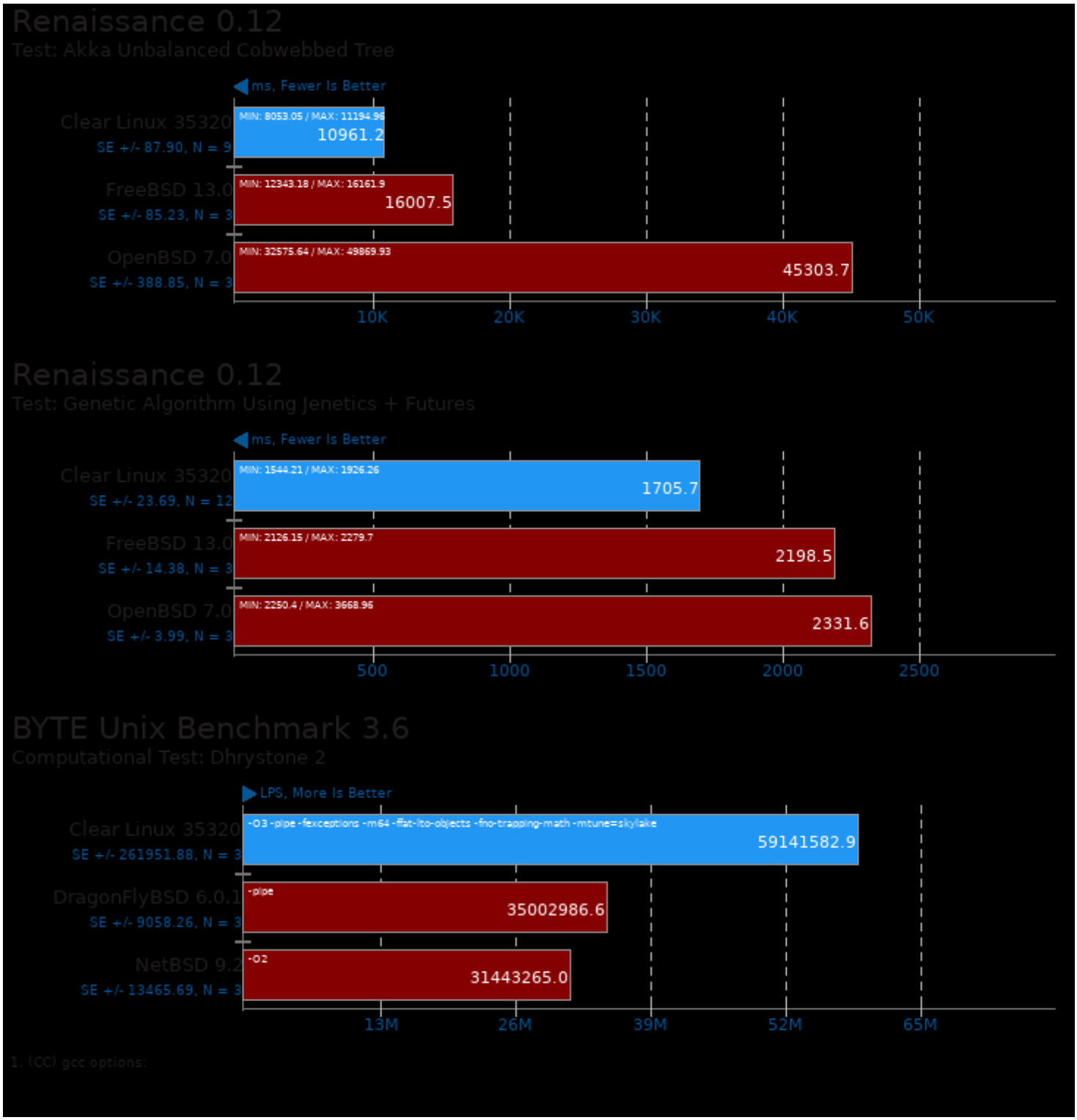
# Clear Compare BSD



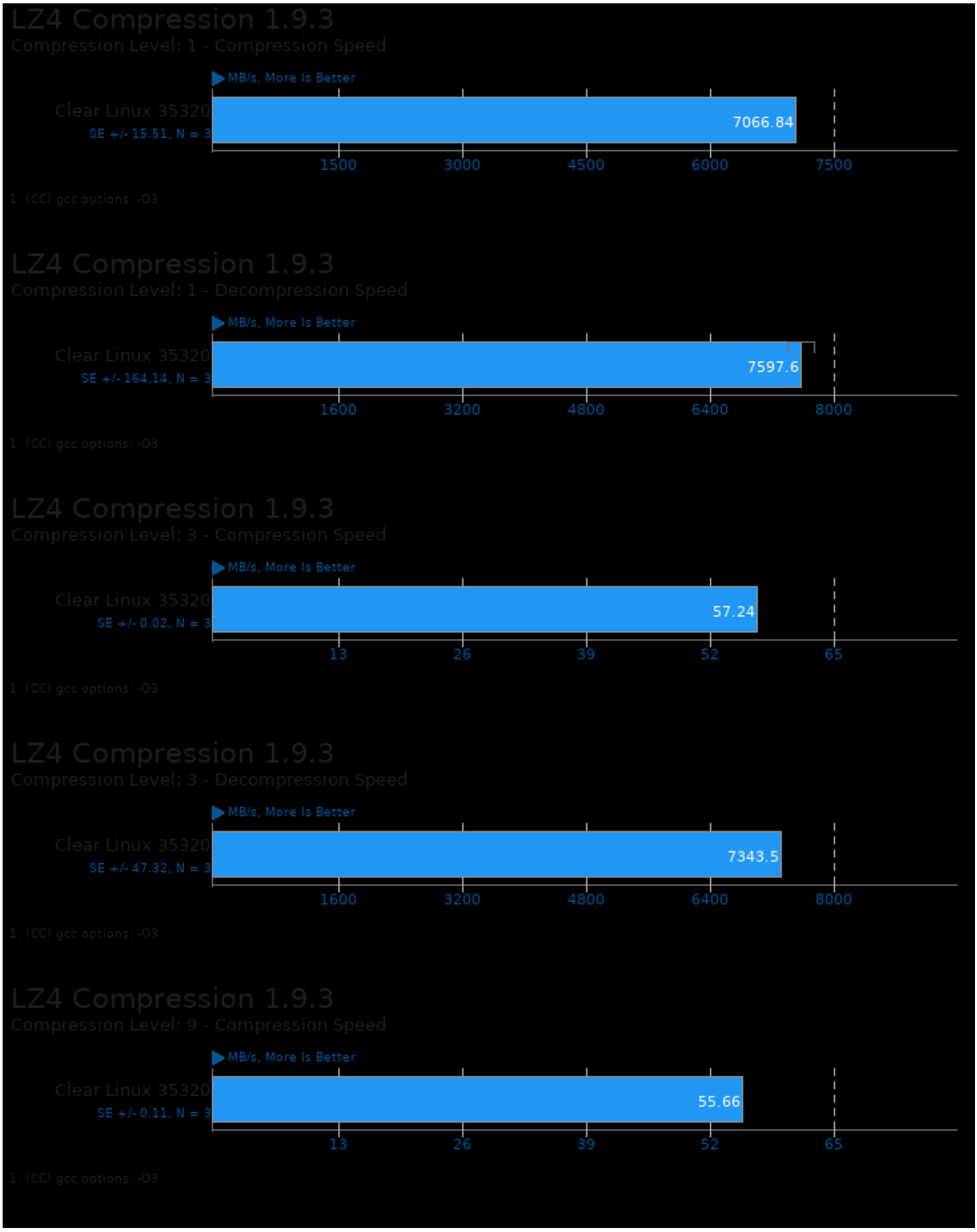
# Clear Compare BSD



# Clear Compare BSD



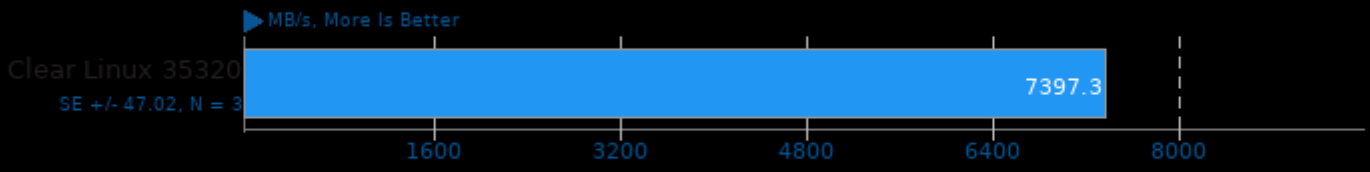
# Clear Compare BSD



# Clear Compare BSD

## LZ4 Compression 1.9.3

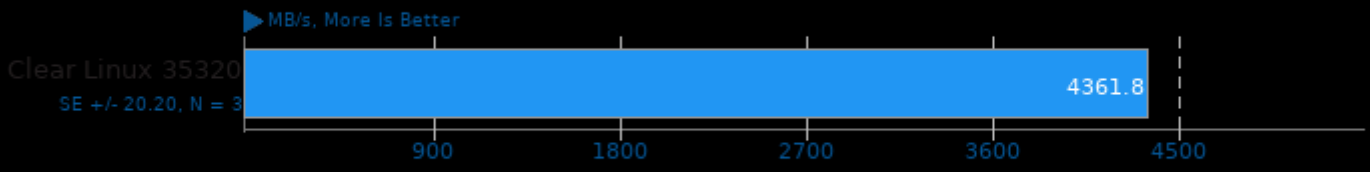
Compression Level: 9 - Decompression Speed




1. (CC) gcc options: -O3

## Zstd Compression 1.5.0

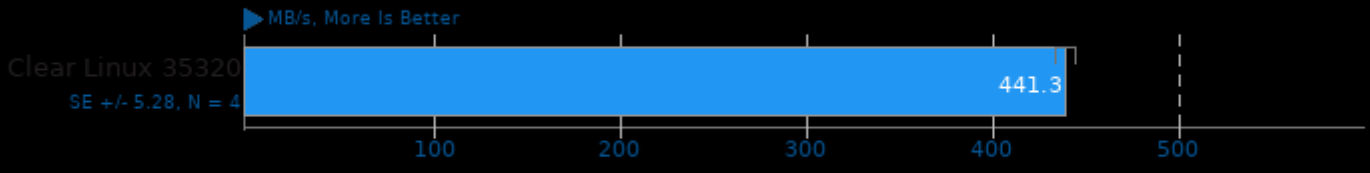
Compression Level: 3 - Compression Speed




1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -pthread -lz

## Zstd Compression 1.5.0

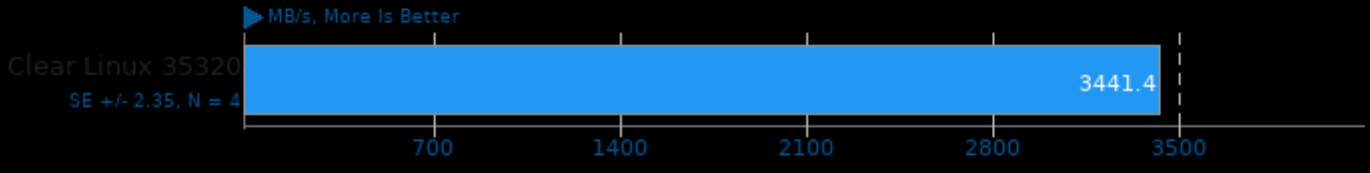
Compression Level: 8 - Compression Speed




1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -pthread -lz

## Zstd Compression 1.5.0

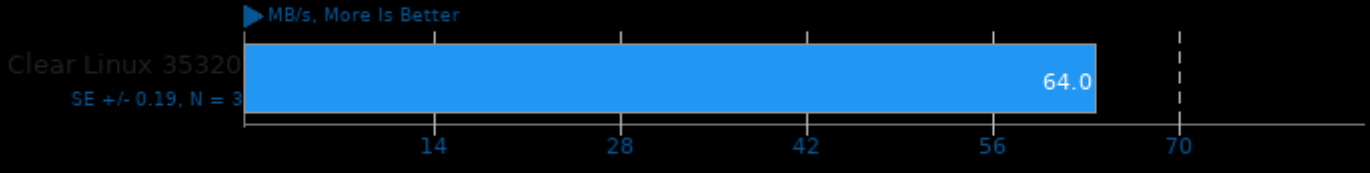
Compression Level: 8 - Decompression Speed




1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -pthread -lz

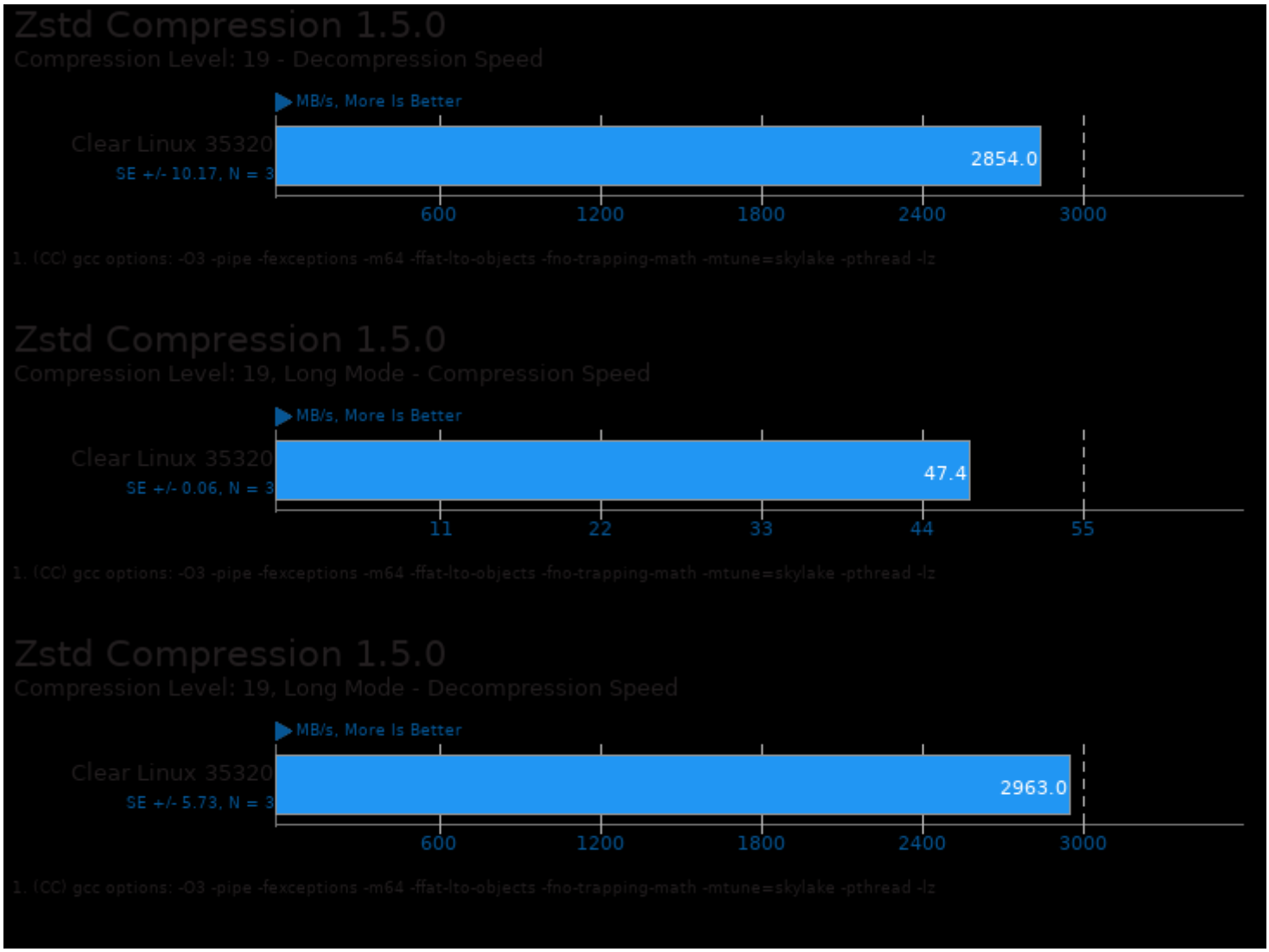
## Zstd Compression 1.5.0

Compression Level: 19 - Compression Speed

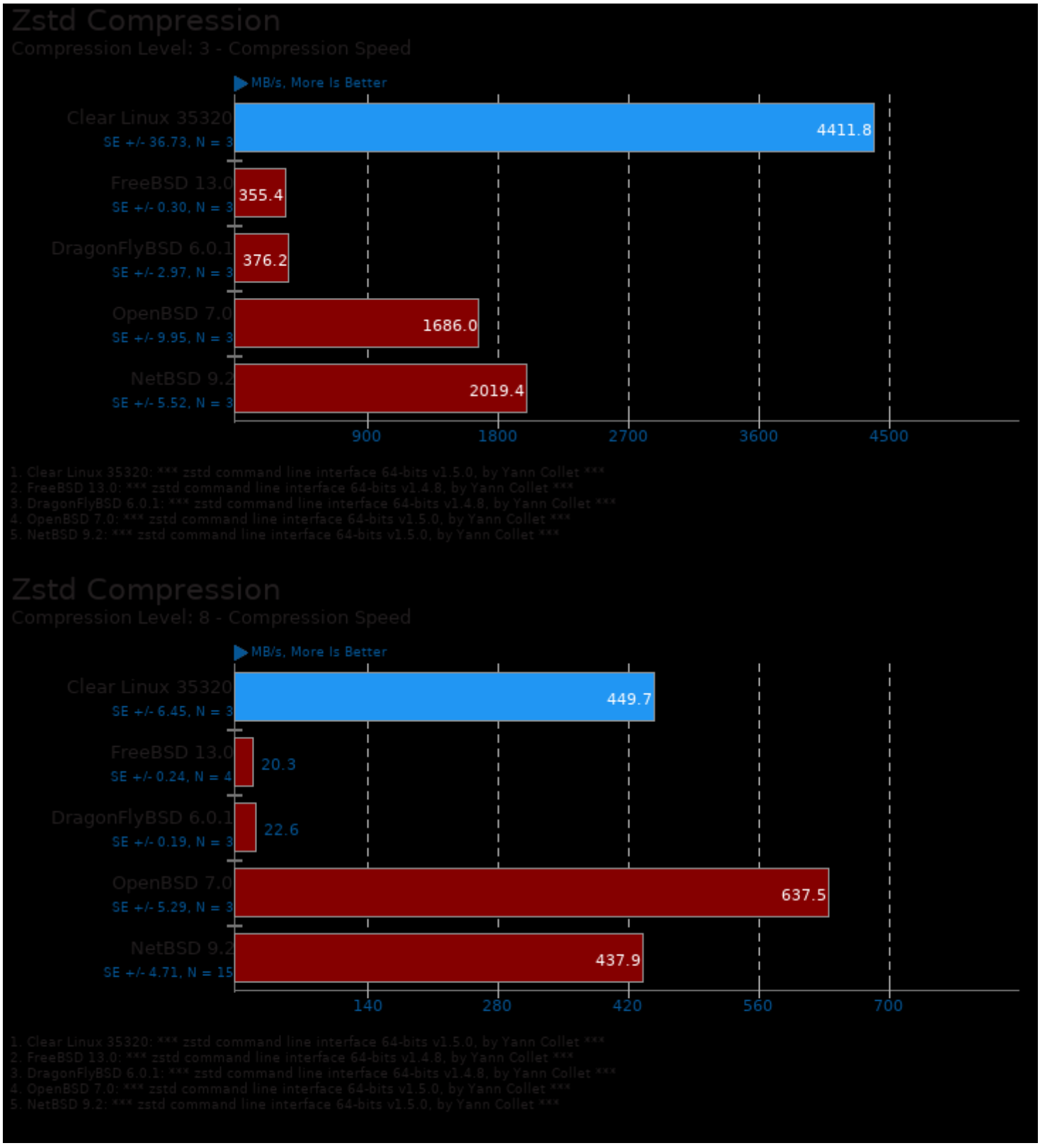



1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -pthread -lz

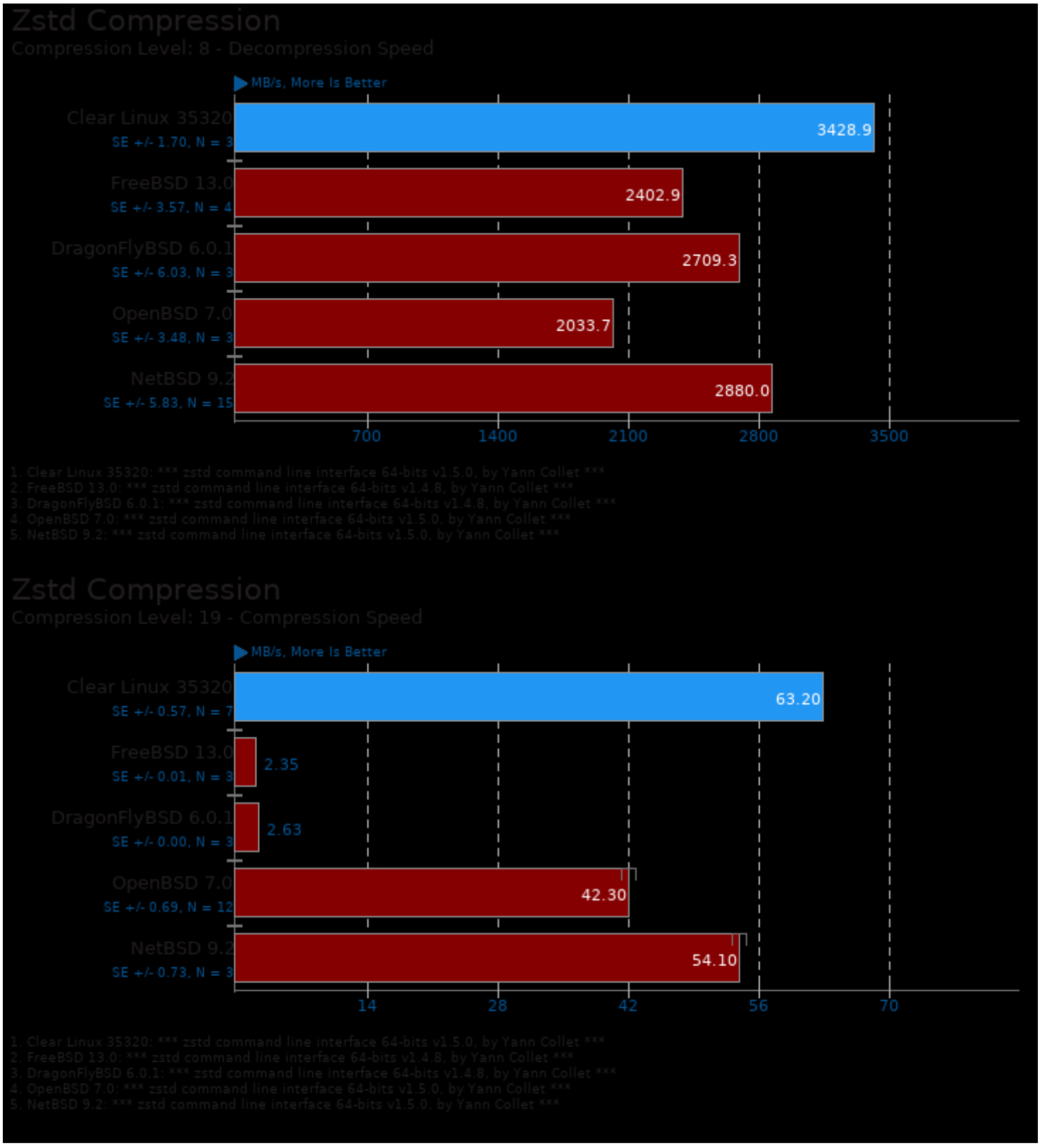
# Clear Compare BSD



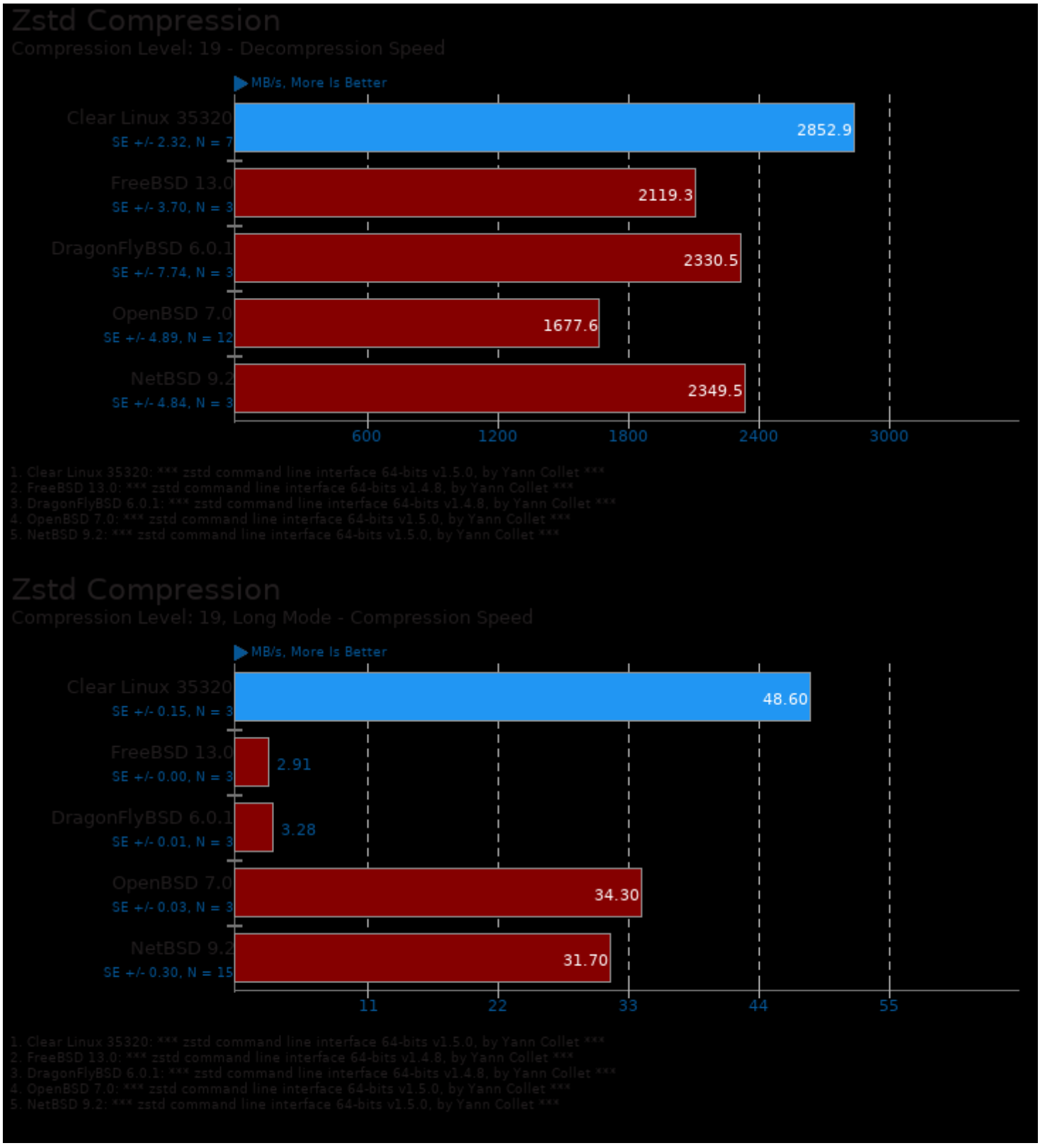
# Clear Compare BSD



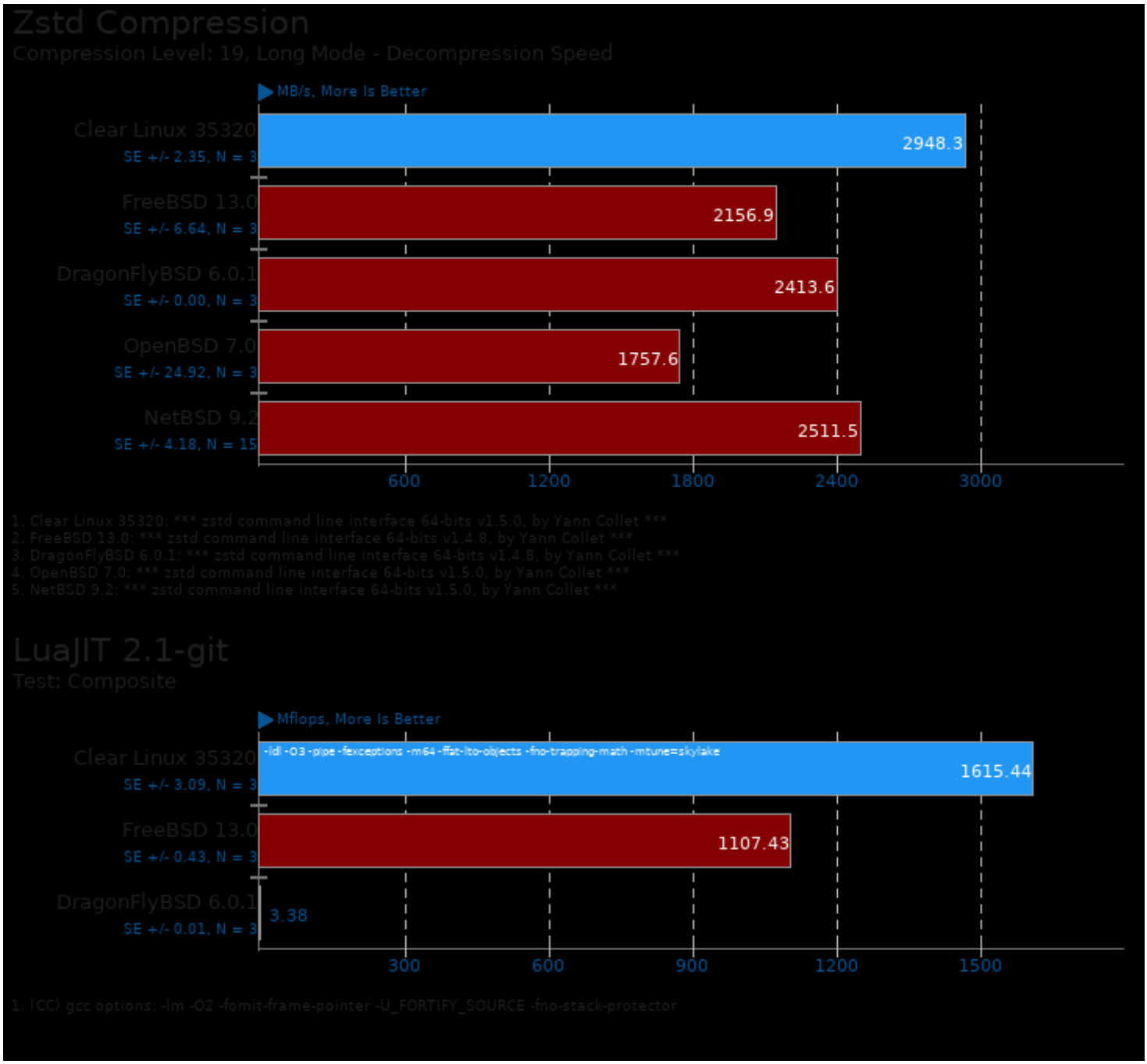
# Clear Compare BSD



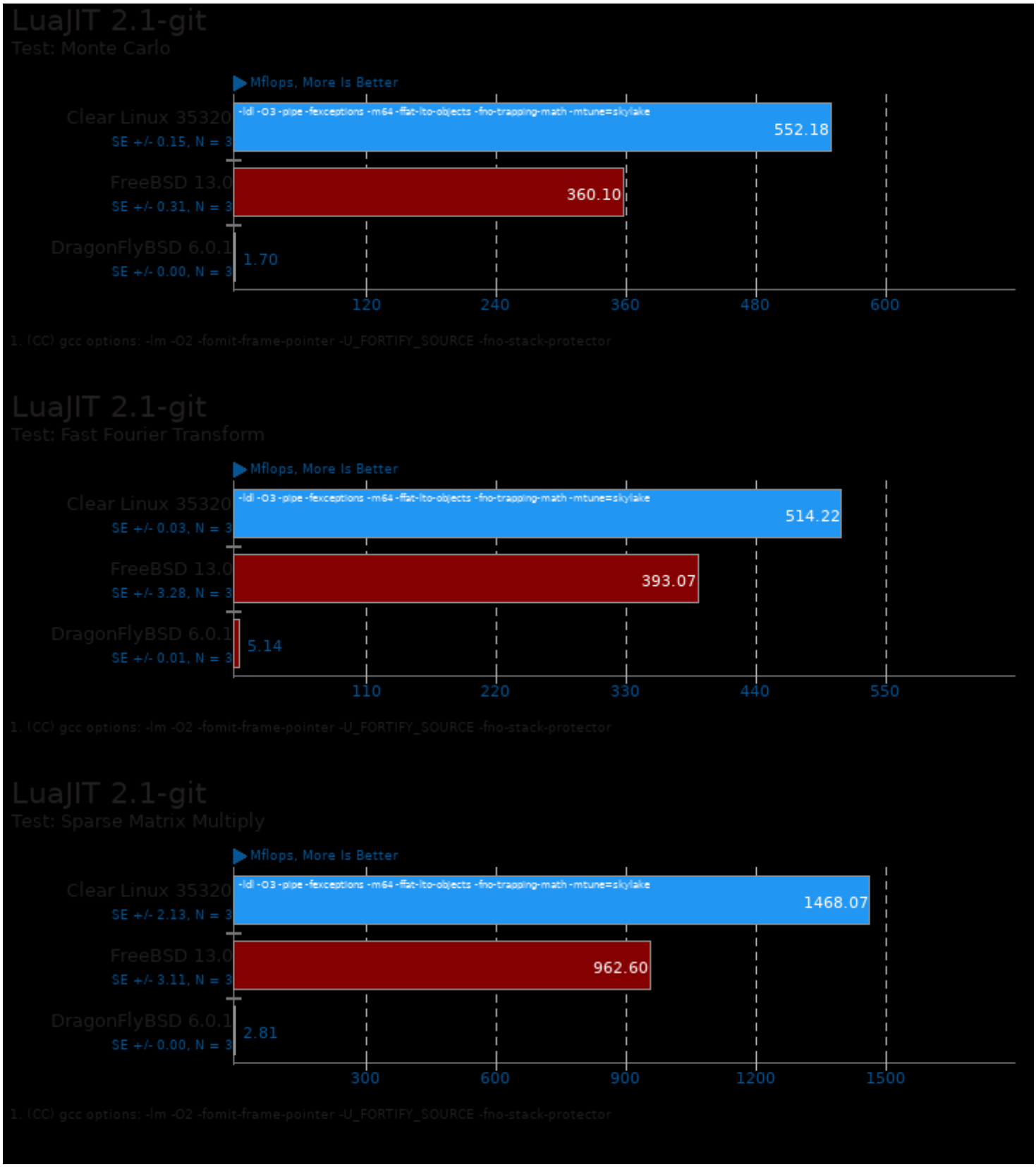
# Clear Compare BSD



# Clear Compare BSD



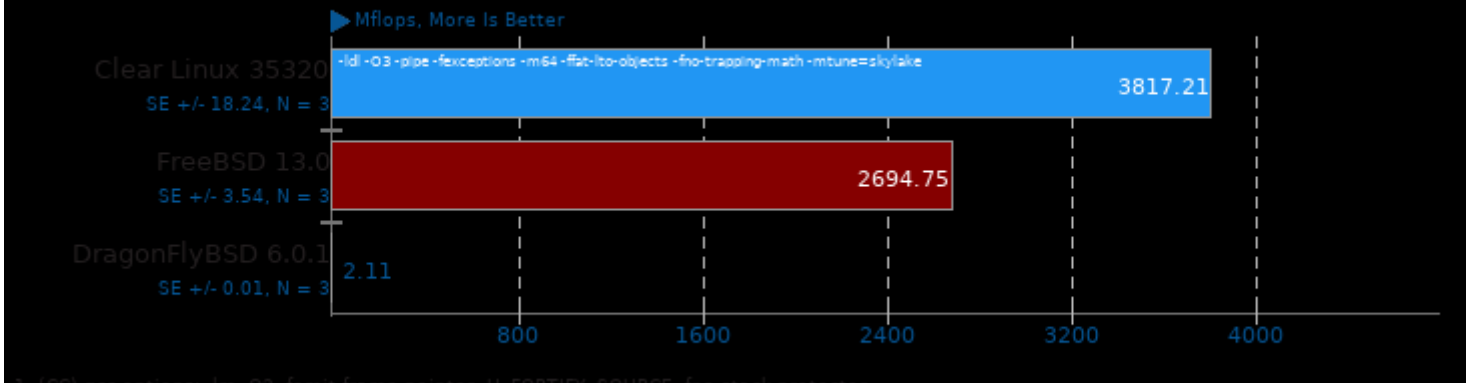
# Clear Compare BSD



# Clear Compare BSD

## LuaJIT 2.1-git

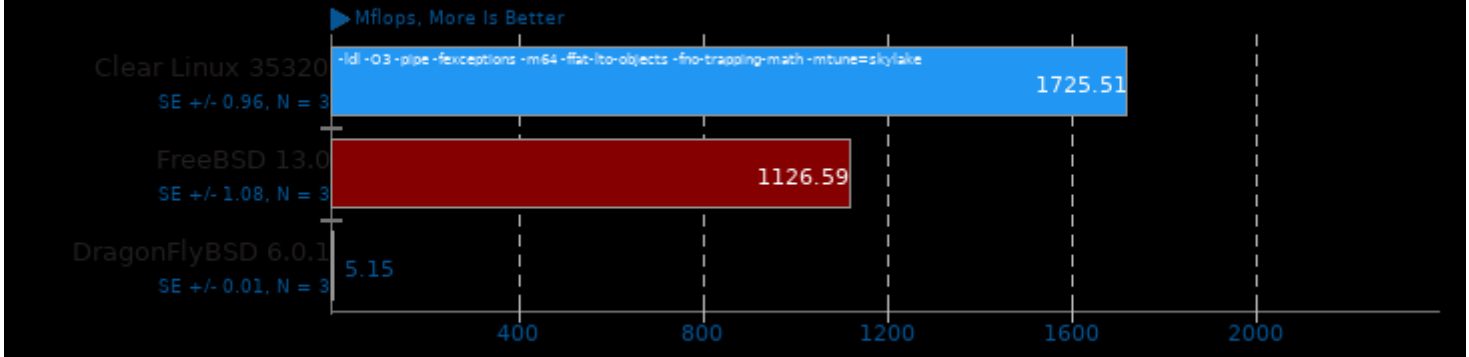
Test: Dense LU Matrix Factorization




1. (CC) gcc options: -lm -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

## LuaJIT 2.1-git

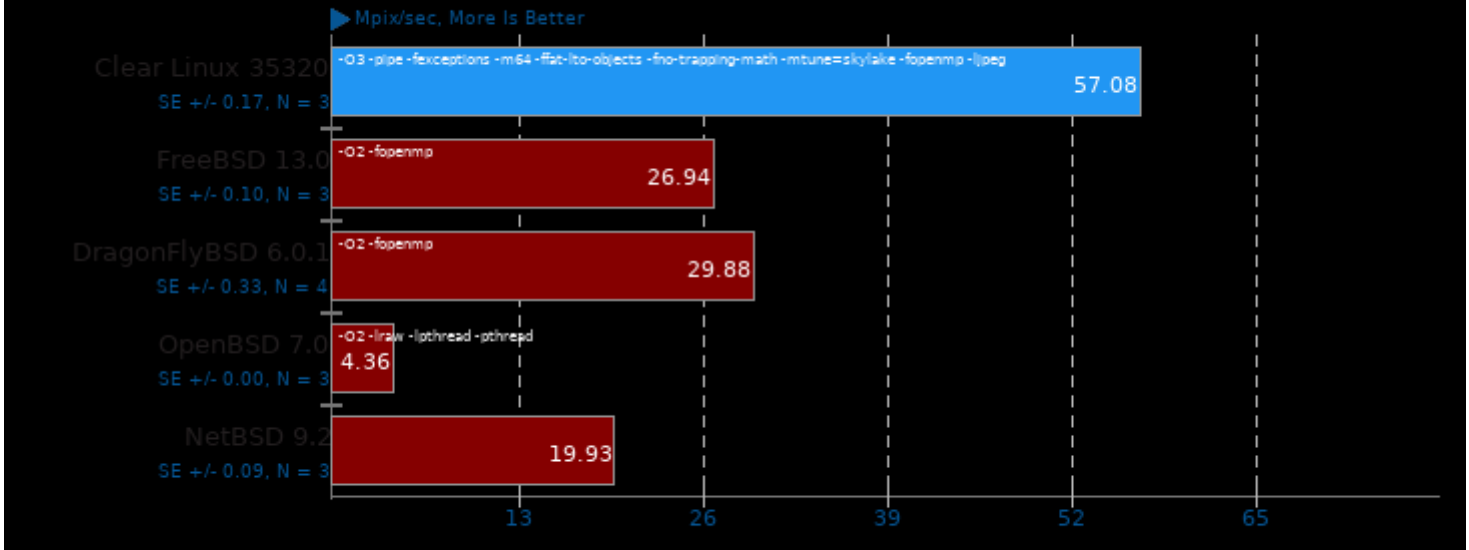
Test: Jacobi Successive Over-Relaxation




1. (CC) gcc options: -lm -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

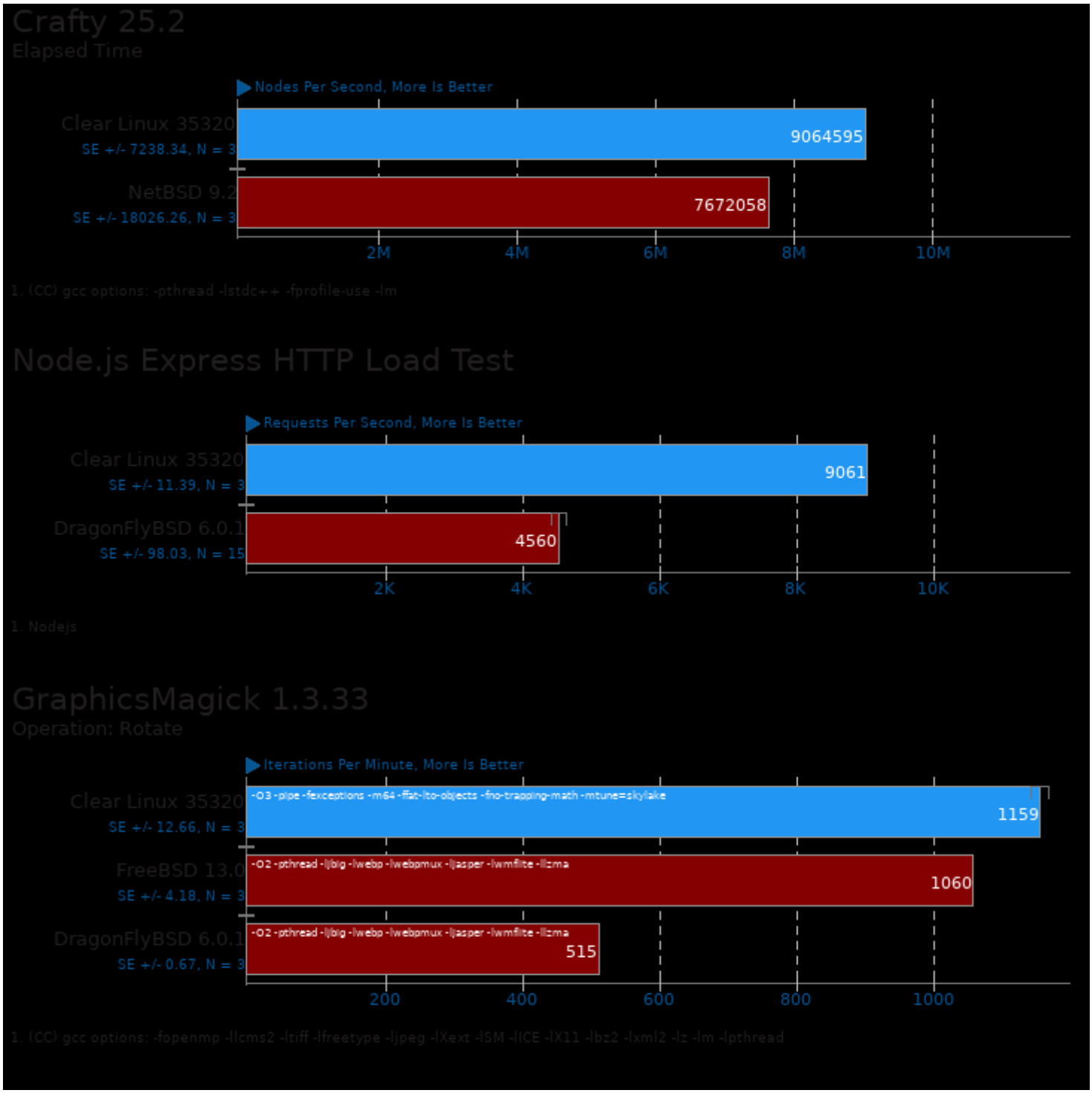
## LibRaw 0.20

Post-Processing Benchmark

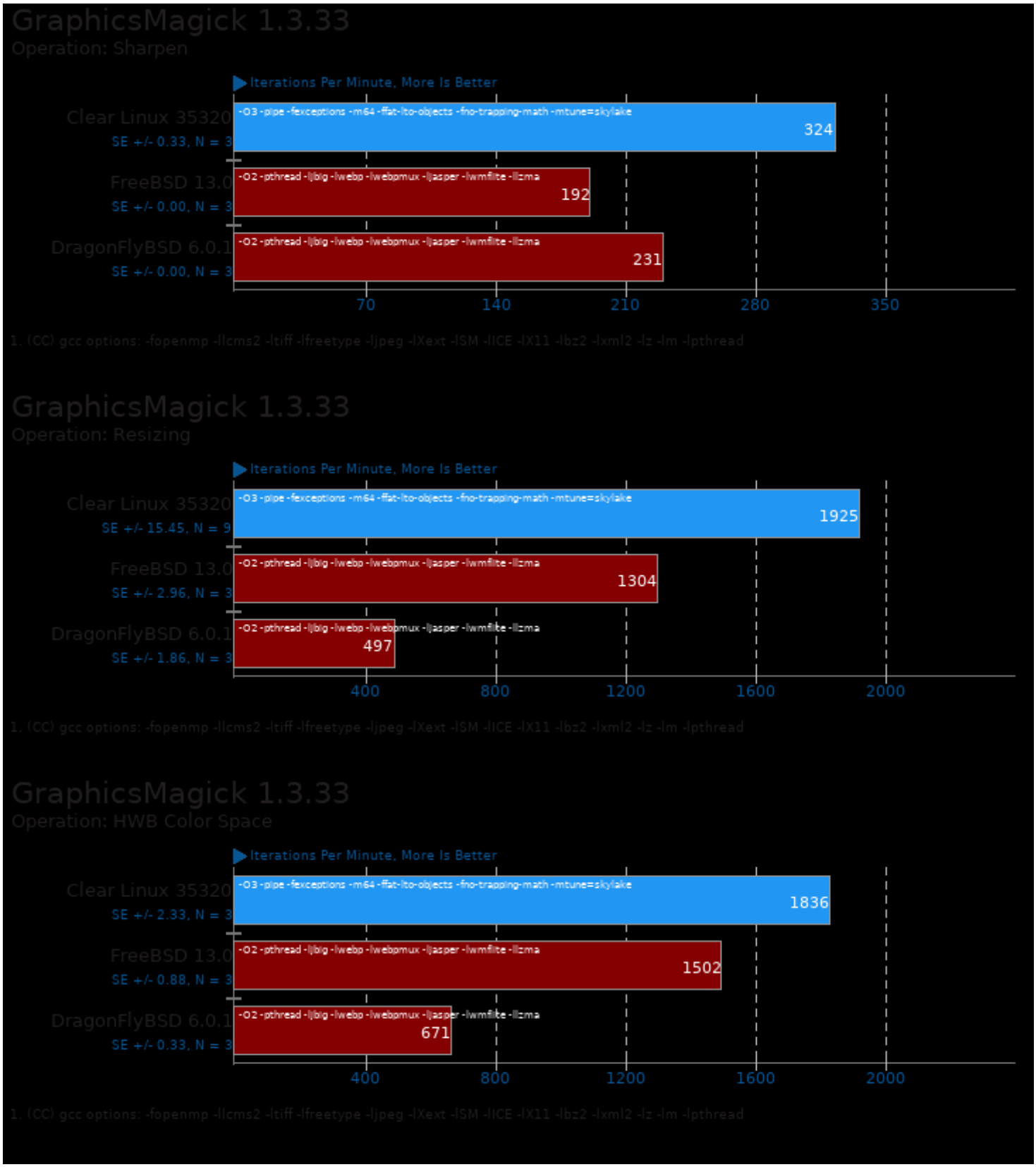



1. (CXX) g++ options: -lz -llcms2 -lm

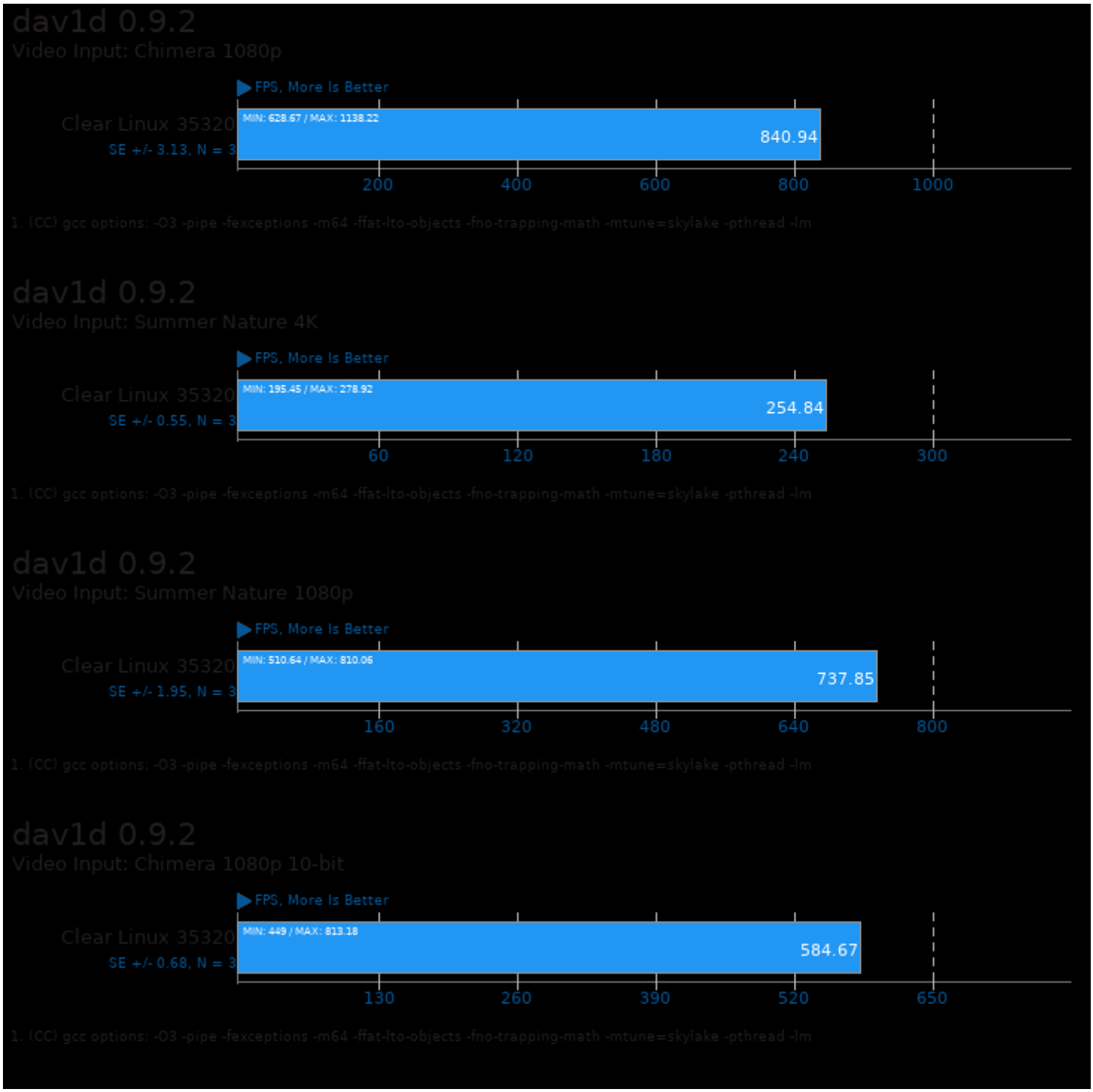
# Clear Compare BSD



# Clear Compare BSD

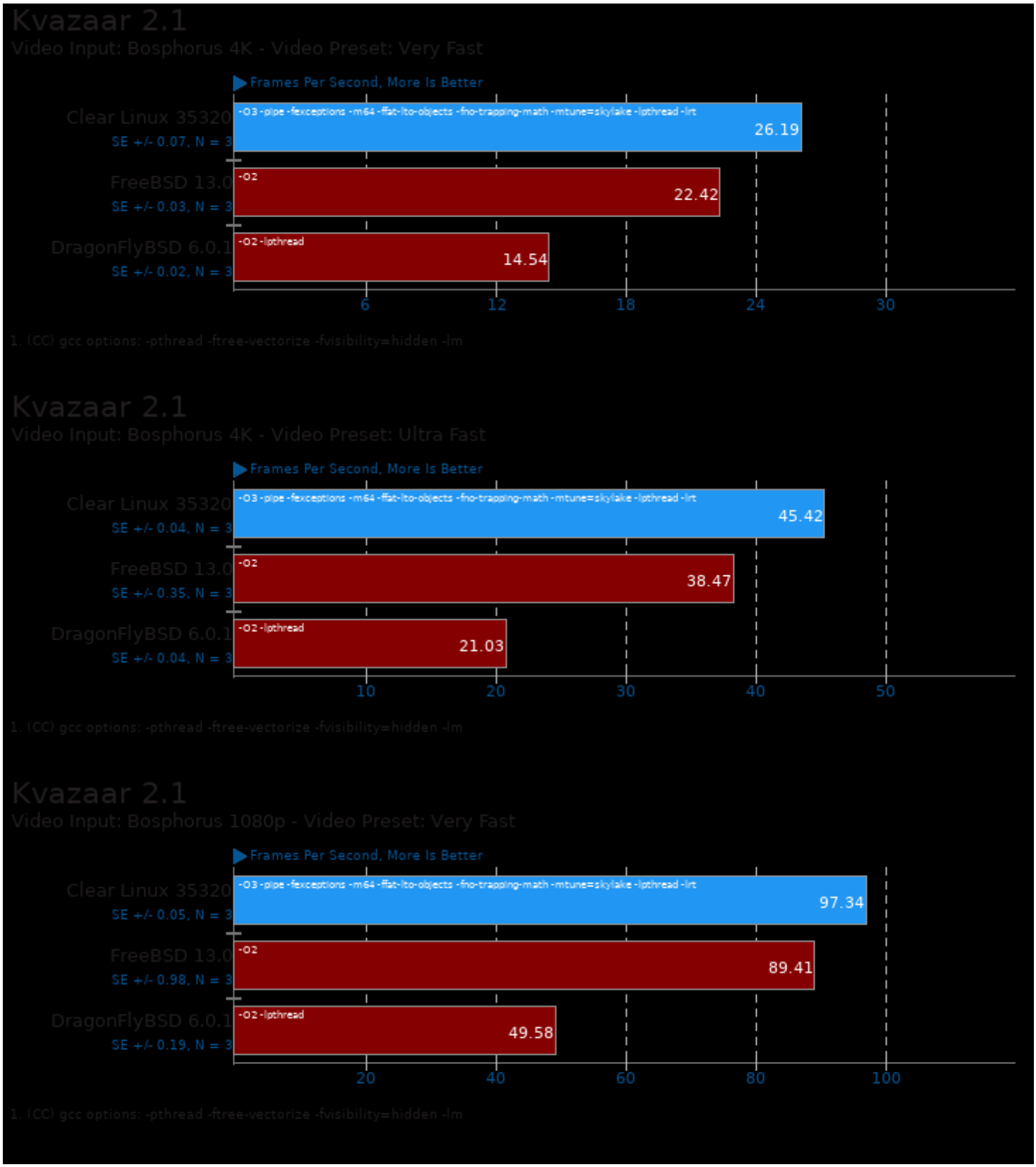


# Clear Compare BSD




TTSIOD 3D Renderer 2.3b
Phong Rendering With Soft-Shadow Mapping
FPS, More Is Better
Clear Linux 35320
SE +/- 1.96, N = 3
-pipe -fexceptions -m64 -flat-lto-objects -fno-trapping-math -mtune=skylake -lpthread
804.17
FreeBSD 13.0
SE +/- 0.05, N = 3
34.94
DragonFlyBSD 6.0.1
SE +/- 0.56, N = 3
-pthread
258.06
NetBSD 9.2
SE +/- 0.19, N = 3
-lpthread
103.83
200
400
600
800
1000
1. (CXX) g++ options: -O3 -fomit-frame-pointer -ffast-math -mtune=native -flto -msse -mrecip -mfpmath=sse -msse2 -mssse3 -lSDL -fopenmp -fwhole-pr
Kvazaar 2.1
Video Input: Bosphorus 4K - Video Preset: Medium
Frames Per Second, More Is Better
Clear Linux 35320
SE +/- 0.01, N = 3
-O3 -pipe -fexceptions -m64 -flat-lto-objects -fno-trapping-math -mtune=skylake -lpthread -lrt
11.12
FreeBSD 13.0
SE +/- 0.02, N = 3
-O2
9.85
DragonFlyBSD 6.0.1
SE +/- 0.01, N = 3
-O2 -lpthread
8.11
3
6
9
12
15
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -lm
Kvazaar 2.1
Video Input: Bosphorus 1080p - Video Preset: Medium
Frames Per Second, More Is Better
Clear Linux 35320
SE +/- 0.09, N = 3
-O3 -pipe -fexceptions -m64 -flat-lto-objects -fno-trapping-math -mtune=skylake -lpthread -lrt
43.27
FreeBSD 13.0
SE +/- 0.15, N = 3
-O2
41.78
DragonFlyBSD 6.0.1
SE +/- 0.06, N = 3
-O2 -lpthread
30.21
10
20
30
40
50
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -lm

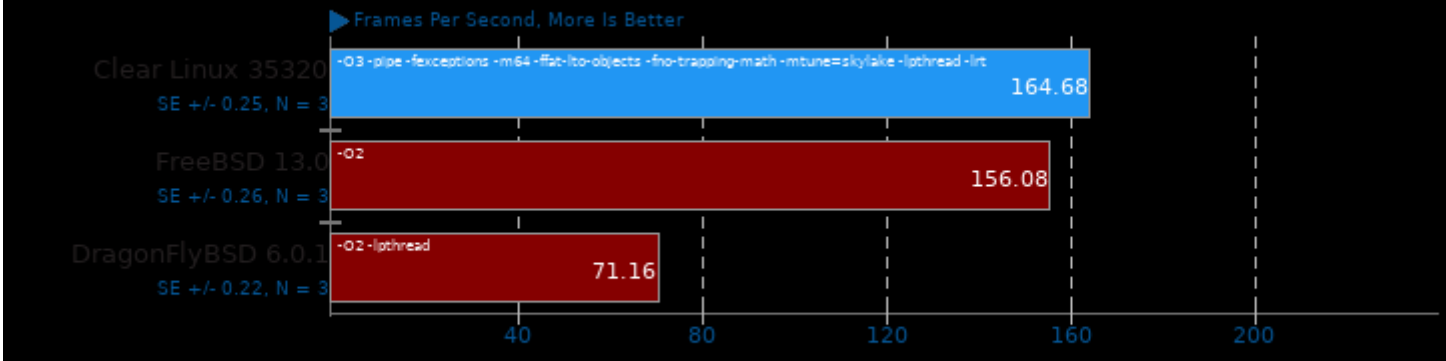
# Clear Compare BSD



# Clear Compare BSD

## Kvazaar 2.1

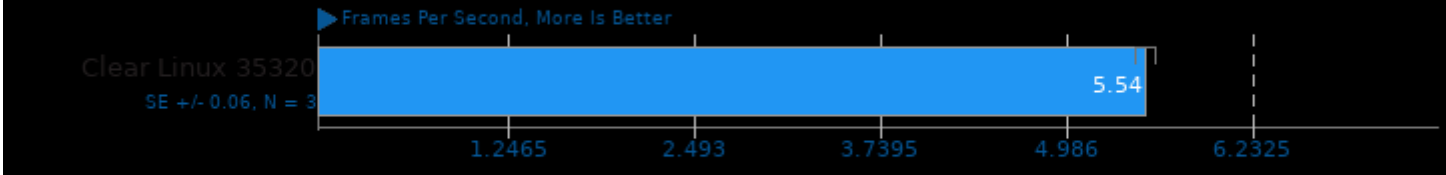
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast




1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -lm

## VP9 libvpx Encoding 1.10.0

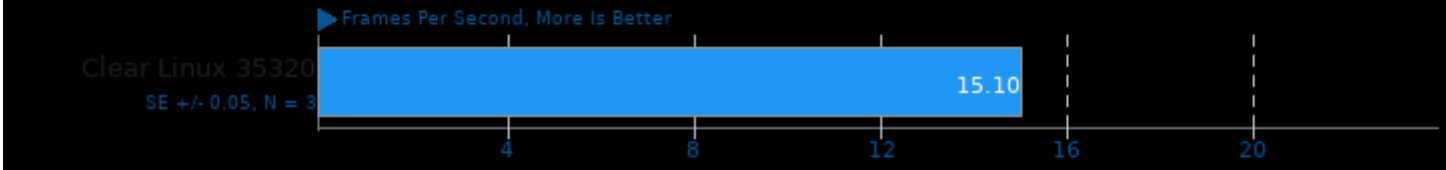
Speed: Speed 0 - Input: Bosphorus 4K




1. (CXX) g++ options: -m64 -lm -lpthread -O3 -pipe -fexceptions -ffat-lto-objects -fno-trapping-math -mtune=skylake -fPIC -std=gnu++11

## VP9 libvpx Encoding 1.10.0

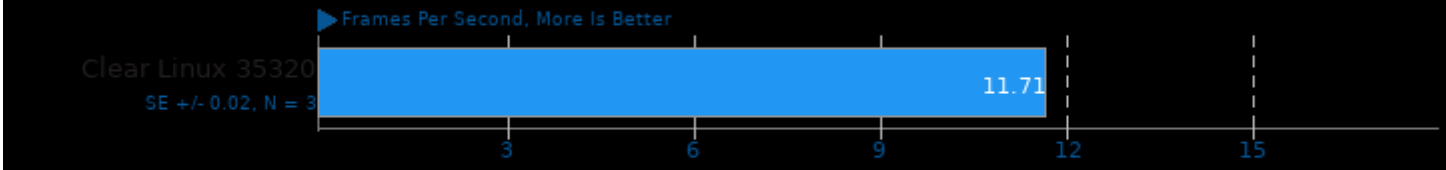
Speed: Speed 5 - Input: Bosphorus 4K




1. (CXX) g++ options: -m64 -lm -lpthread -O3 -pipe -fexceptions -ffat-lto-objects -fno-trapping-math -mtune=skylake -fPIC -std=gnu++11

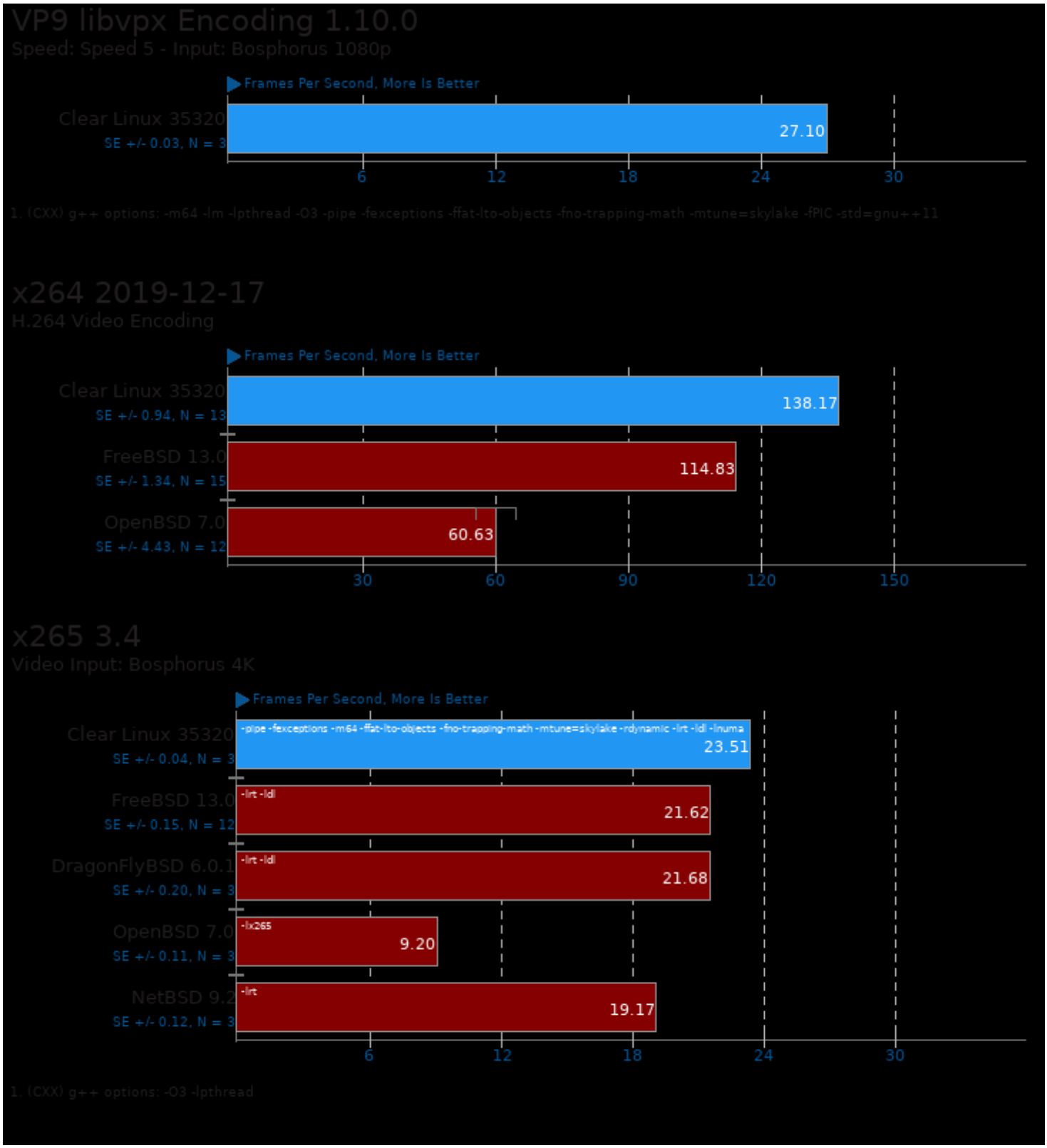
## VP9 libvpx Encoding 1.10.0

Speed: Speed 0 - Input: Bosphorus 1080p




1. (CXX) g++ options: -m64 -lm -lpthread -O3 -pipe -fexceptions -ffat-lto-objects -fno-trapping-math -mtune=skylake -fPIC -std=gnu++11

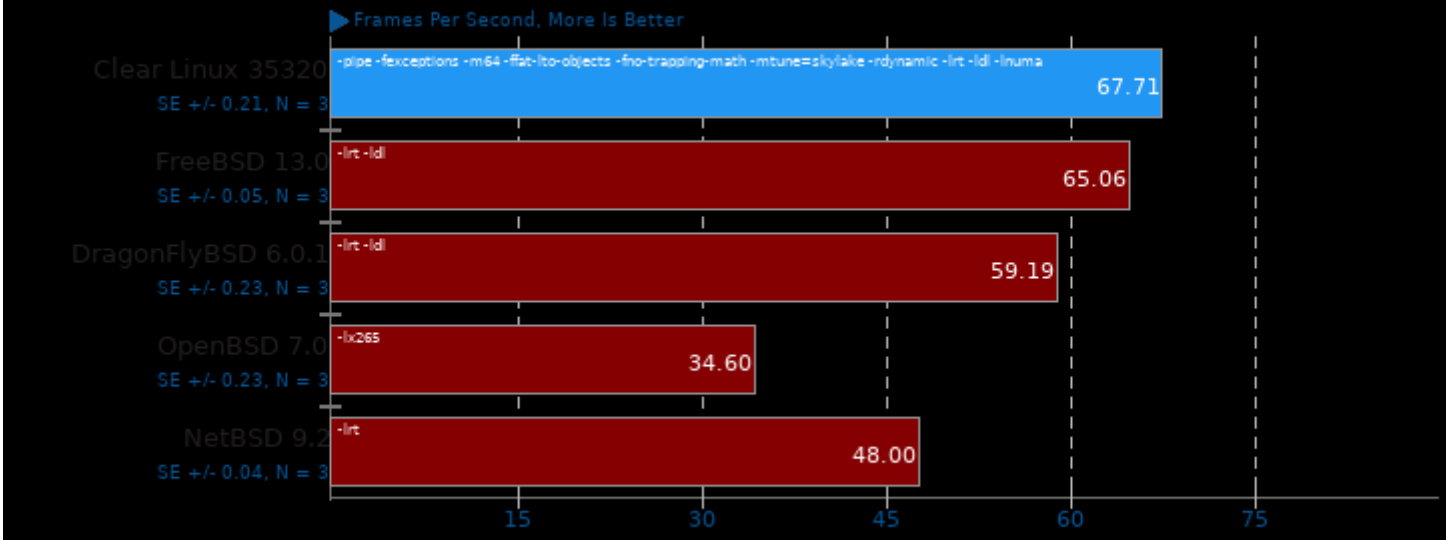
# Clear Compare BSD



# Clear Compare BSD

## x265 3.4

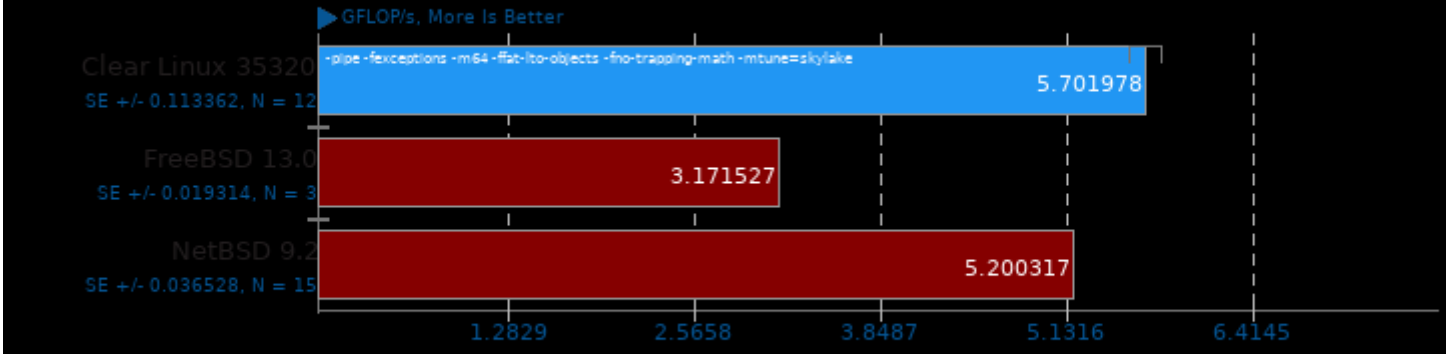
Video Input: Bosphorus 1080p




1. (CXX) g++ options: -O3 -lpthread

## ACES DGEMM 1.0

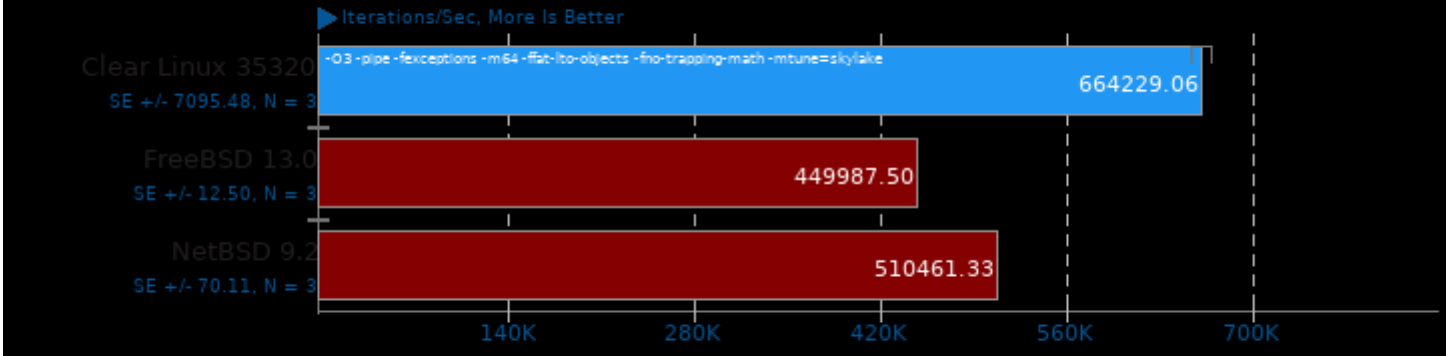
Sustained Floating-Point Rate




1. (CC) gcc options: -O3 -march=native -fopenmp

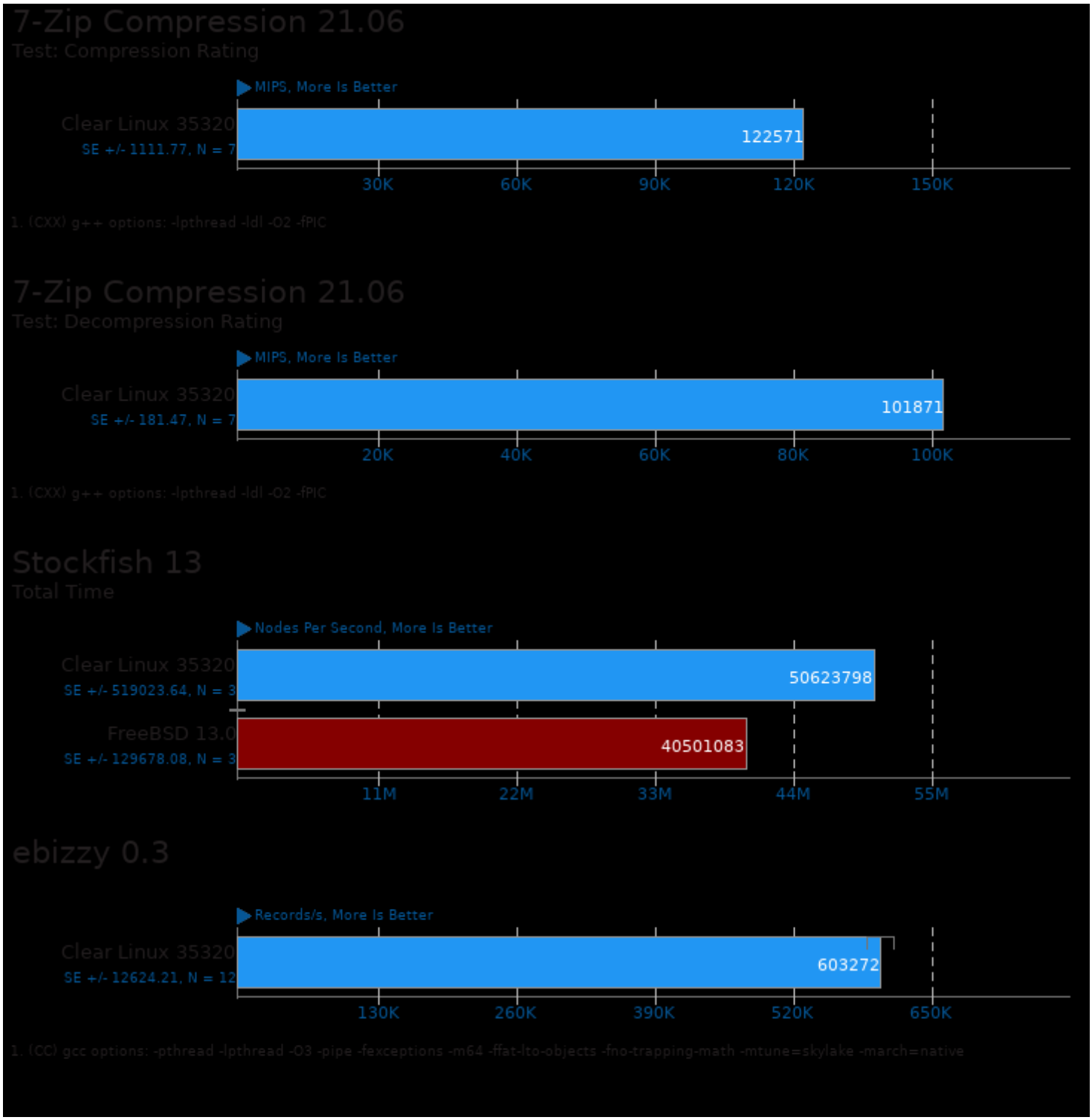
## Coremark 1.0

CoreMark Size 666 - Iterations Per Second

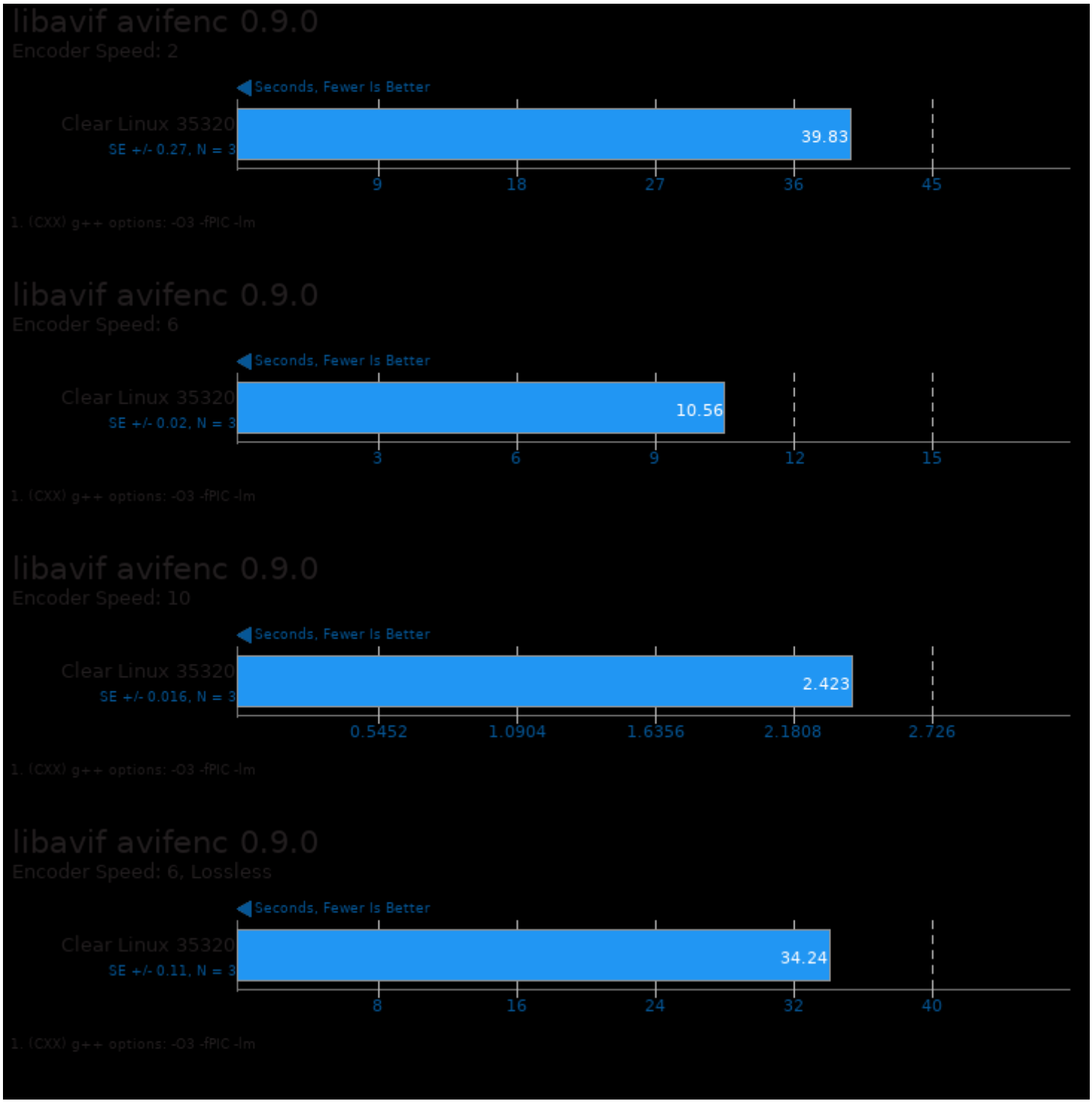



1. (CC) gcc options: -O2 -lrt" -lrt

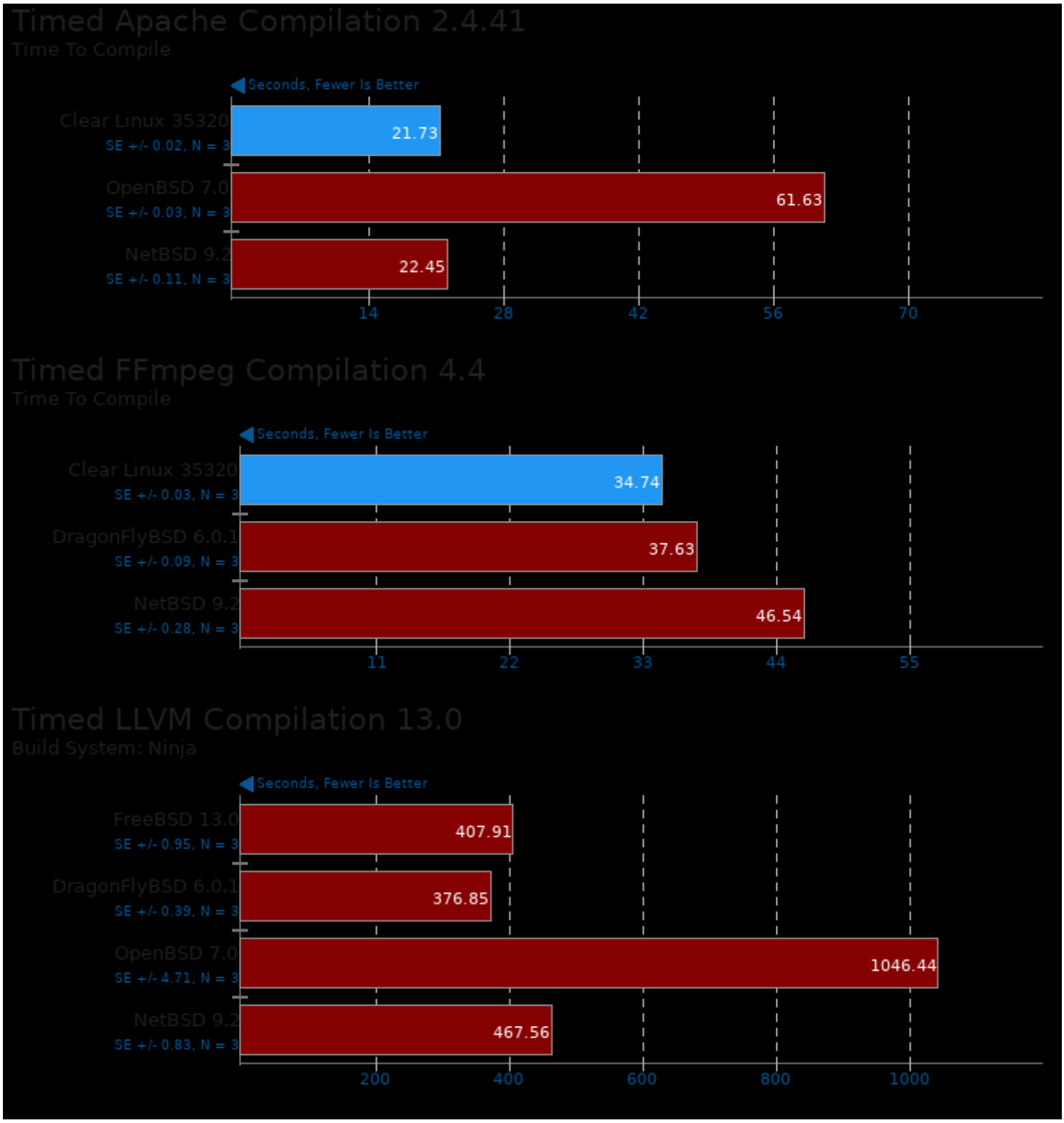
# Clear Compare BSD



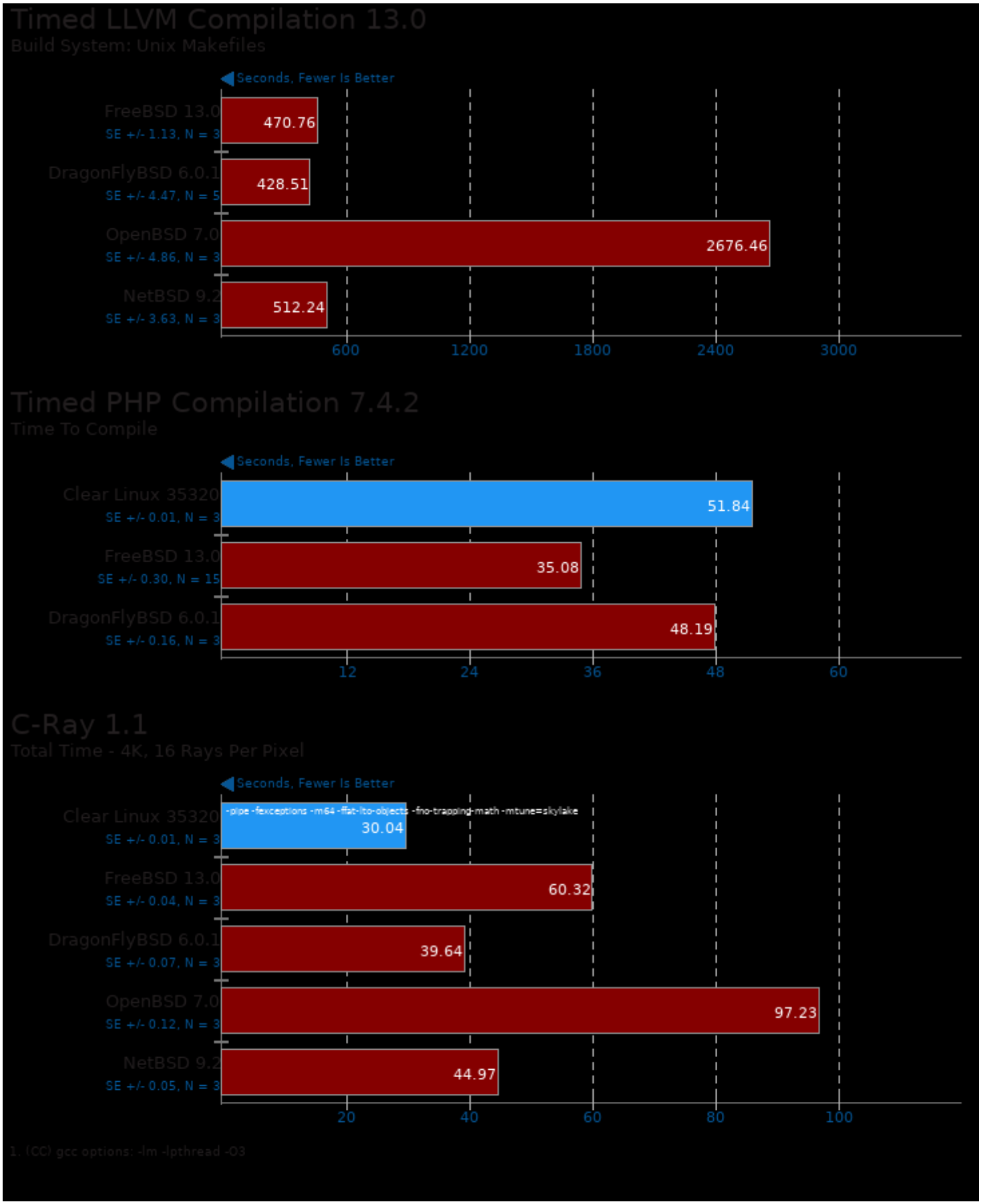
# Clear Compare BSD



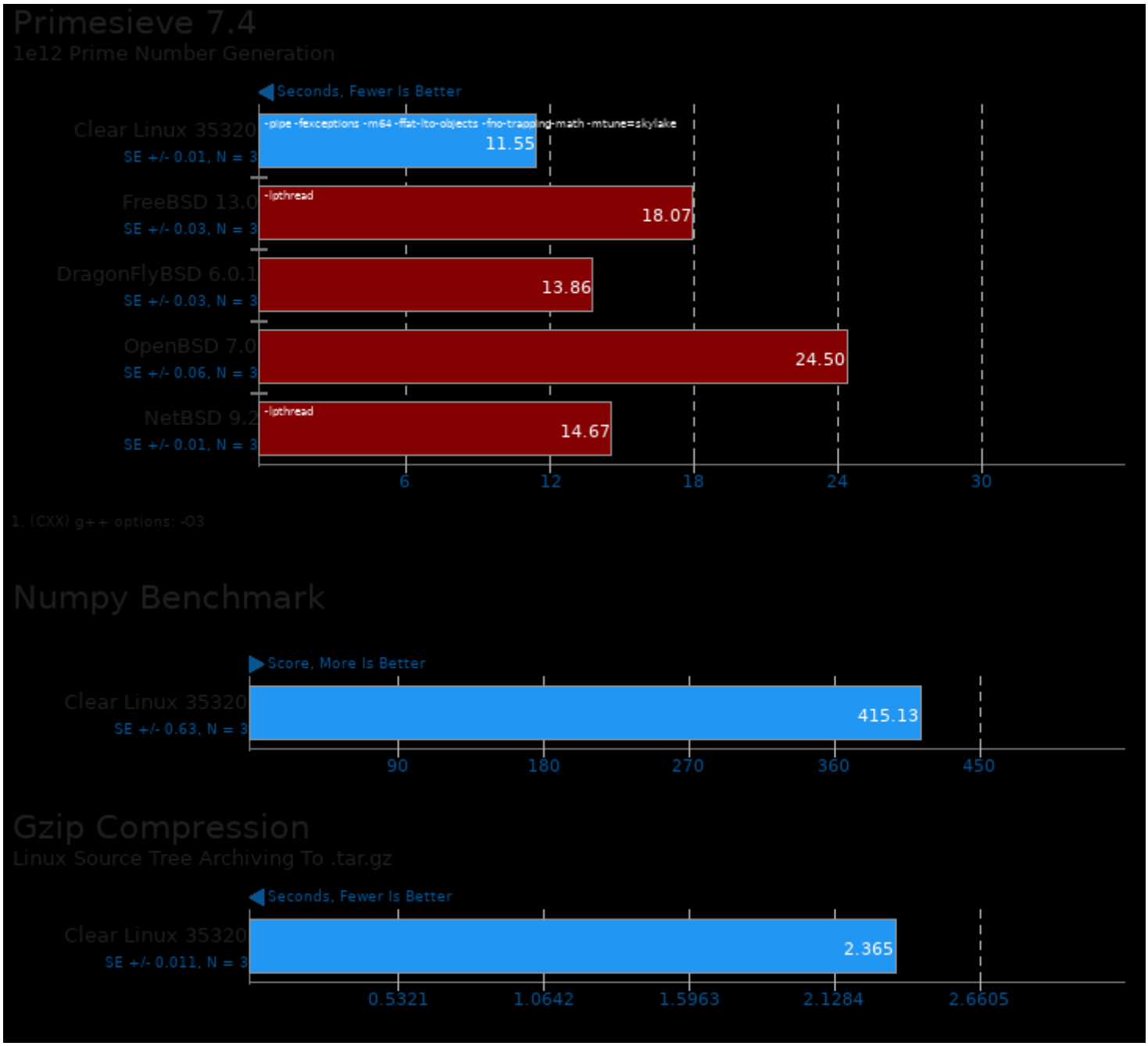
# Clear Compare BSD

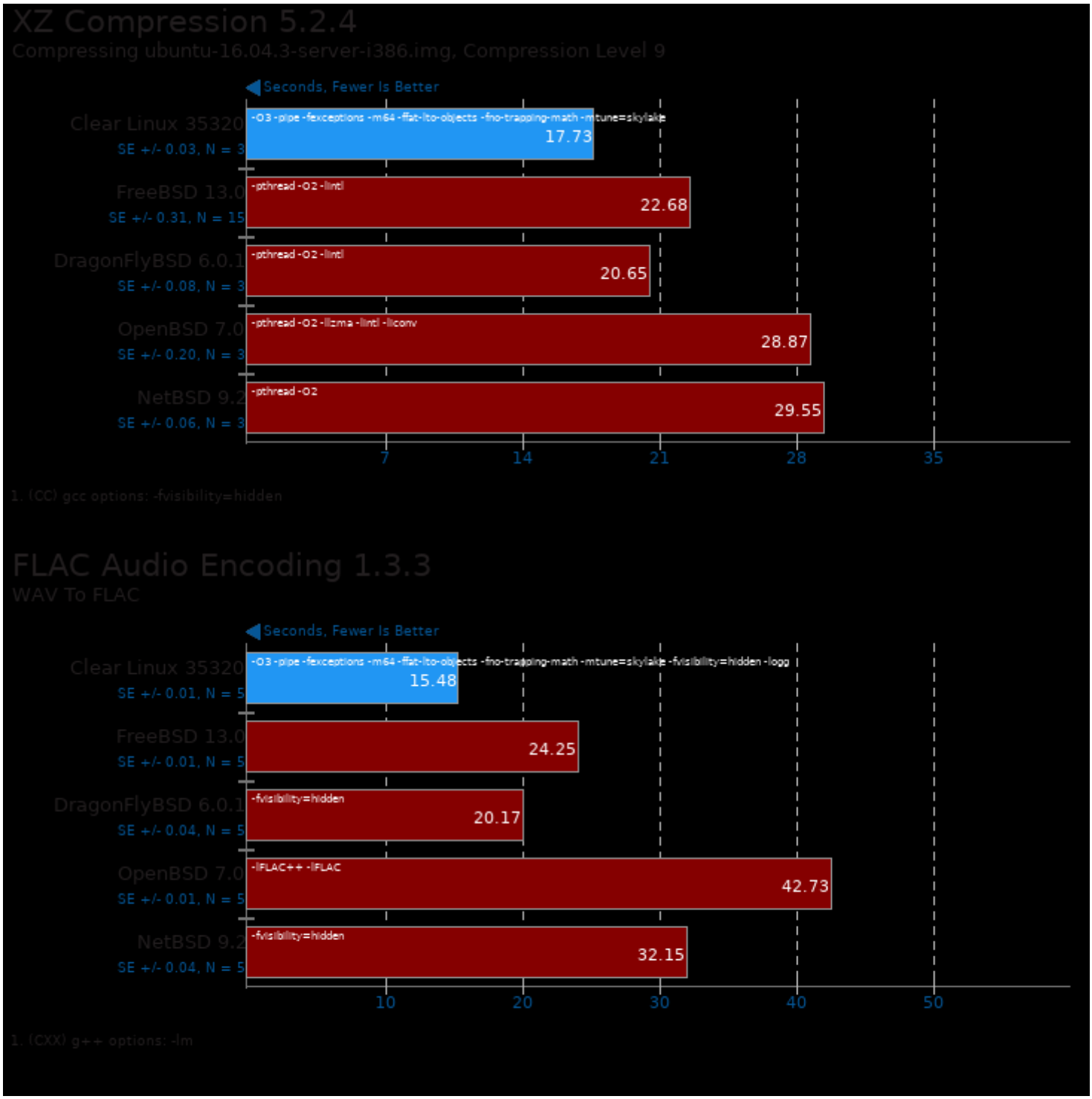


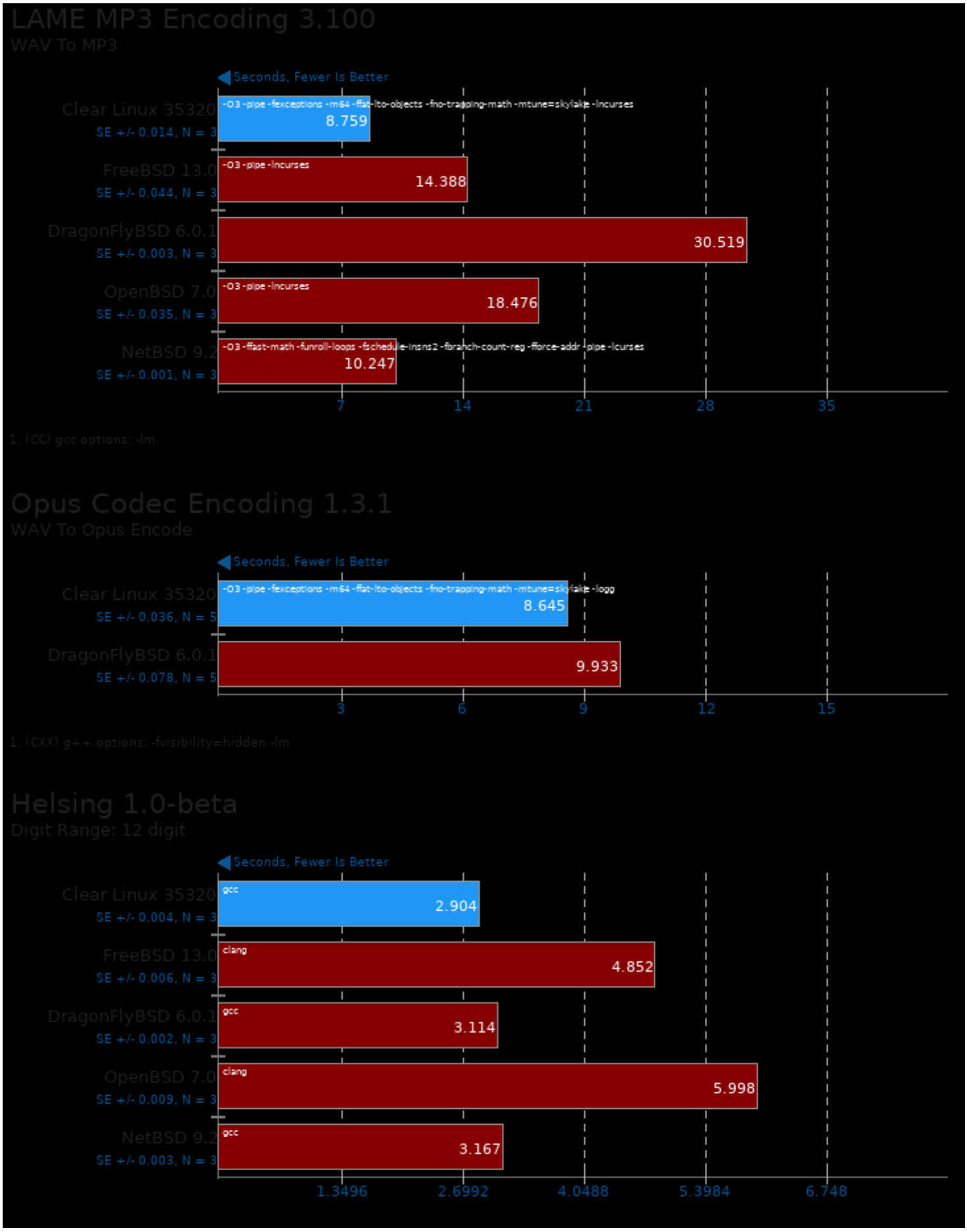
# Clear Compare BSD



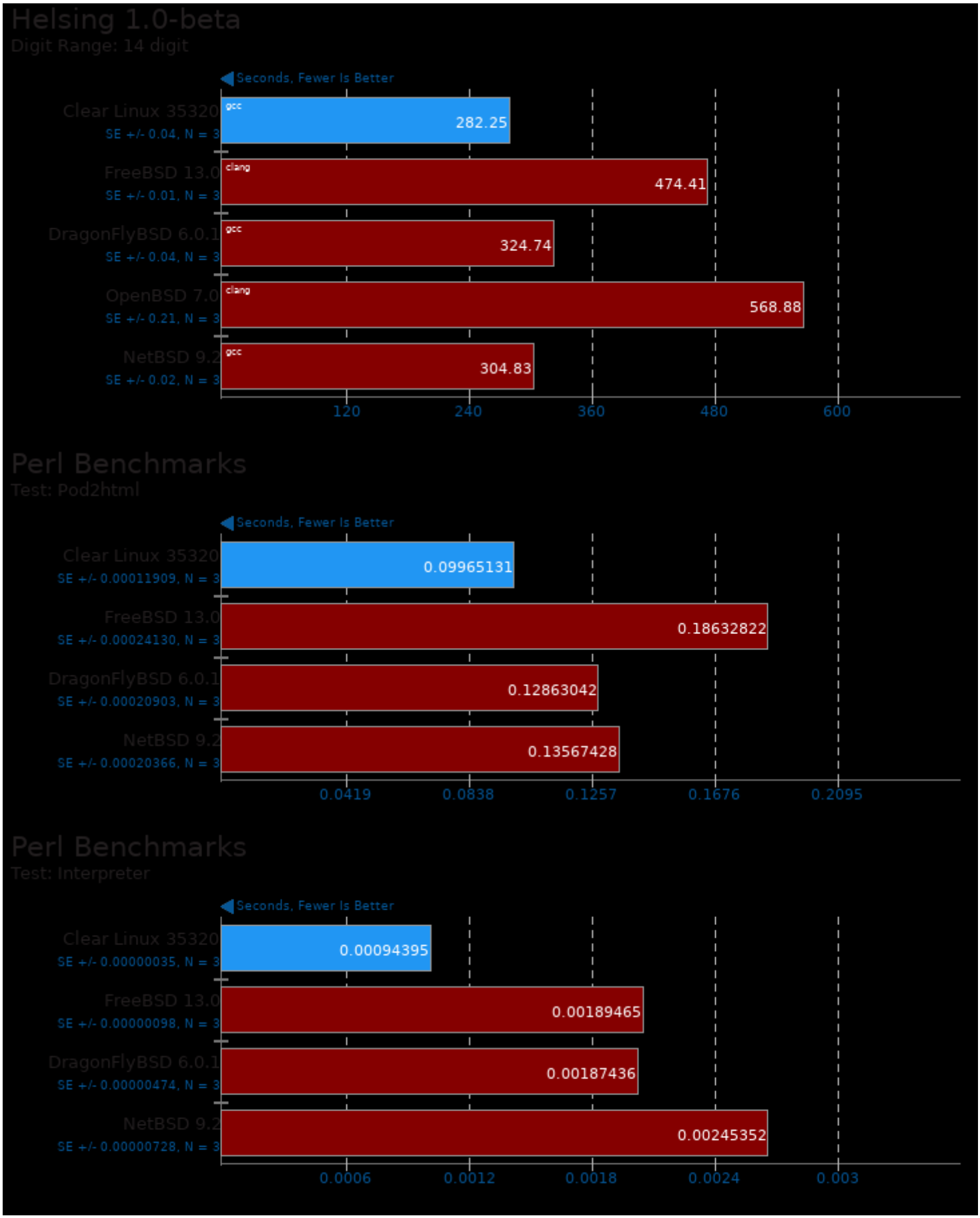
# Clear Compare BSD



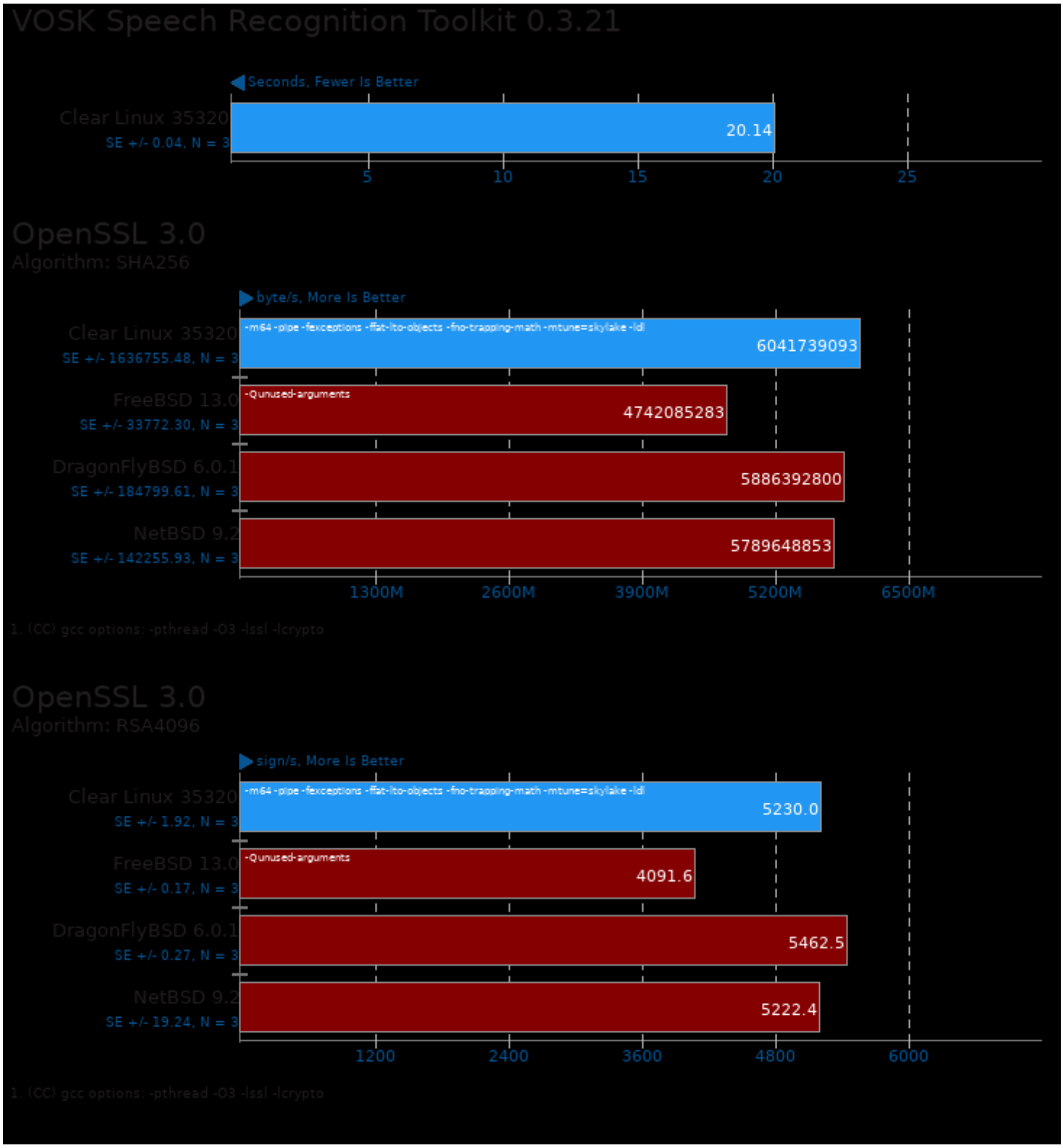

XZ Compression 5.2.4
Compressing ubuntu-16.04.3-server-i386.img, Compression Level 9
Seconds, Fewer Is Better
Clear Linux 35320
SE +/- 0.03, N = 3
-O3 -pipe -fexceptions -m64 -flto -fno-trapping-math -mtune=skylake
17.73
FreeBSD 13.0
SE +/- 0.31, N = 15
-pthread -O2 -lintl
22.68
DragonFlyBSD 6.0.1
SE +/- 0.08, N = 3
-pthread -O2 -lintl
20.65
OpenBSD 7.0
SE +/- 0.20, N = 3
-pthread -O2 -llzma -lintl -liconv
28.87
NetBSD 9.2
SE +/- 0.06, N = 3
-pthread -O2
29.55
7
14
21
28
35
1. (CC) gcc options: -fvisibility=hidden
FLAC Audio Encoding 1.3.3
WAV To FLAC
Seconds, Fewer Is Better
Clear Linux 35320
SE +/- 0.01, N = 5
-O3 -pipe -fexceptions -m64 -flto -fno-trapping-math -mtune=skylake -fvisibility=hidden -logg
15.48
FreeBSD 13.0
SE +/- 0.01, N = 5
24.25
DragonFlyBSD 6.0.1
SE +/- 0.04, N = 5
-fvisibility=hidden
20.17
OpenBSD 7.0
SE +/- 0.01, N = 5
-lFLAC++ -lFLAC
42.73
NetBSD 9.2
SE +/- 0.04, N = 5
-fvisibility=hidden
32.15
10
20
30
40
50
1. (CXX) g++ options: -lm


LAME MP3 Encoding 3.100
WAV To MP3
Seconds, Fewer Is Better
Clear Linux 35320
SE +/- 0.014, N = 3
-O3 -pipe -fexceptions -m64 -flto-objects -fno-trapping-math -mtune=skylake -lncurses
8.759
FreeBSD 13.0
SE +/- 0.044, N = 3
-O3 -pipe -lncurses
14.388
DragonFlyBSD 6.0.1
SE +/- 0.003, N = 3
30.519
OpenBSD 7.0
SE +/- 0.035, N = 3
-O3 -pipe -lncurses
18.476
NetBSD 9.2
SE +/- 0.001, N = 3
-O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lcurses
10.247
7
14
21
28
35
1. (CC) gcc options: -lm
Opus Codec Encoding 1.3.1
WAV To Opus Encode
Seconds, Fewer Is Better
Clear Linux 35320
SE +/- 0.036, N = 5
-O3 -pipe -fexceptions -m64 -flto-objects -fno-trapping-math -mtune=skylake -logg
8.645
DragonFlyBSD 6.0.1
SE +/- 0.078, N = 5
9.933
3
6
9
12
15
1. (CXX) g++ options: -fvisibility=hidden -lm
Helsing 1.0-beta
Digit Range: 12 digit
Seconds, Fewer Is Better
Clear Linux 35320
SE +/- 0.004, N = 3
gcc
2.904
FreeBSD 13.0
SE +/- 0.006, N = 3
clang
4.852
DragonFlyBSD 6.0.1
SE +/- 0.002, N = 3
gcc
3.114
OpenBSD 7.0
SE +/- 0.009, N = 3
clang
5.998
NetBSD 9.2
SE +/- 0.003, N = 3
gcc
3.167
1.3496
2.6992
4.0488
5.3984
6.748

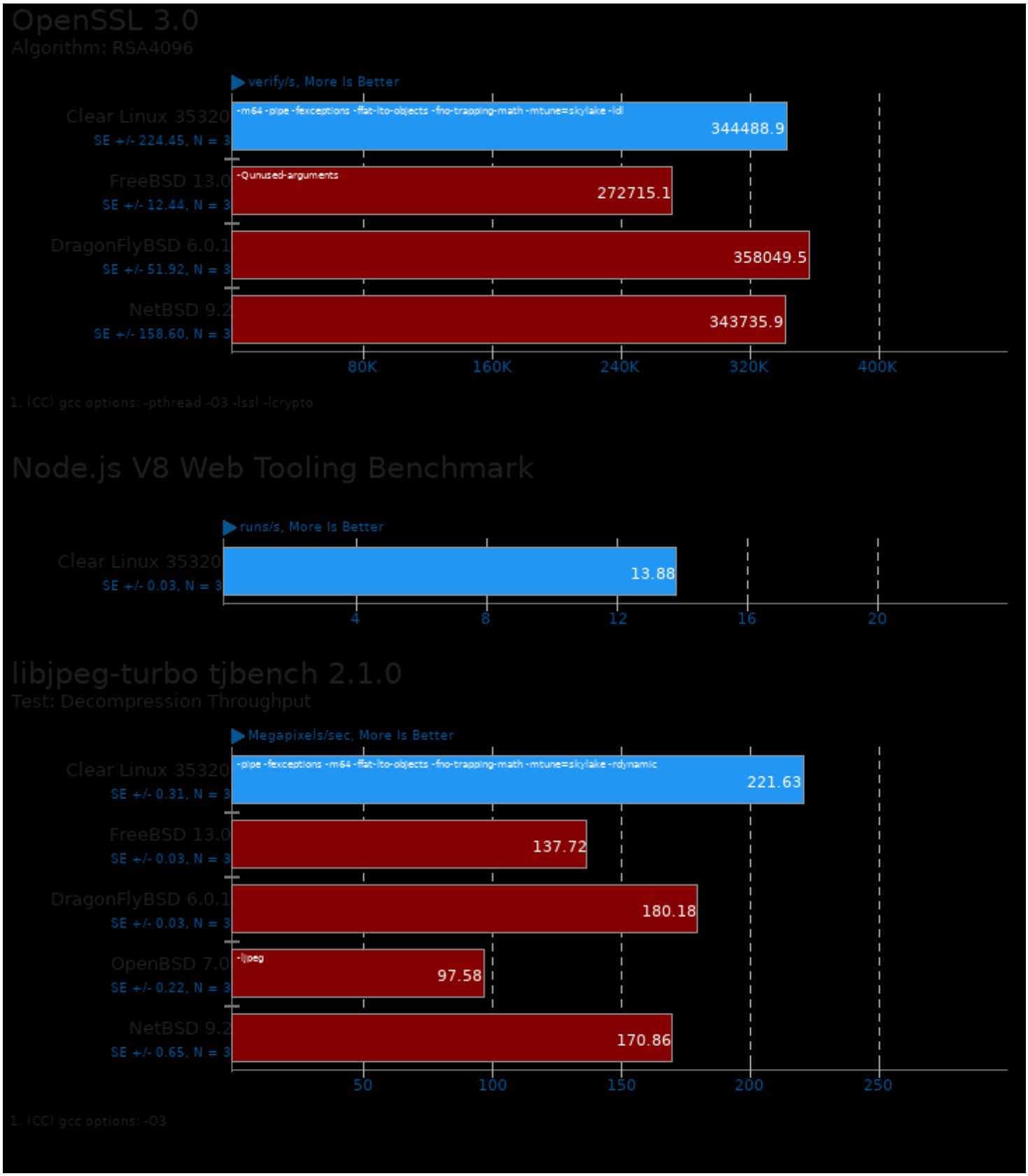
# Clear Compare BSD



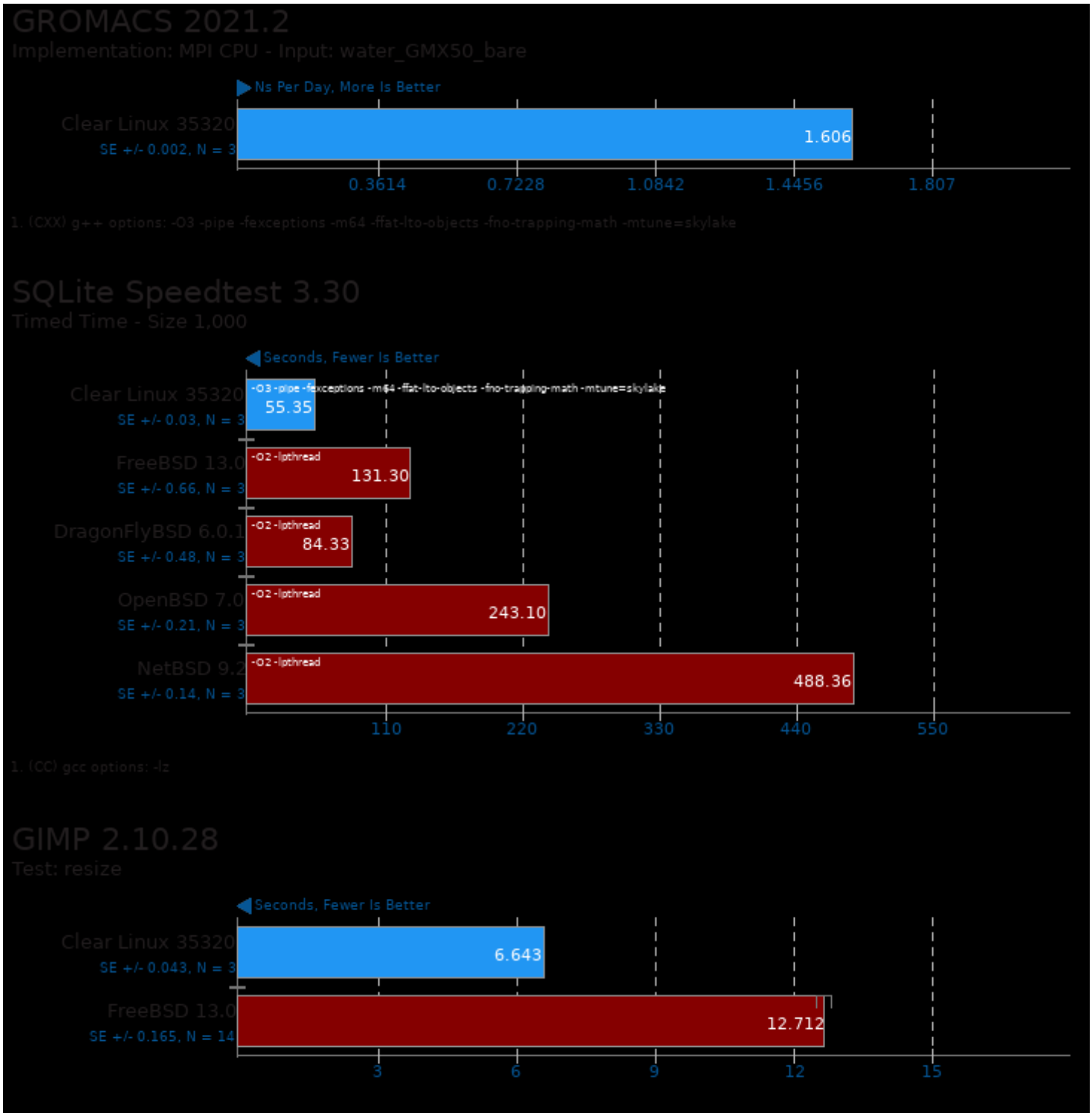
# Clear Compare BSD



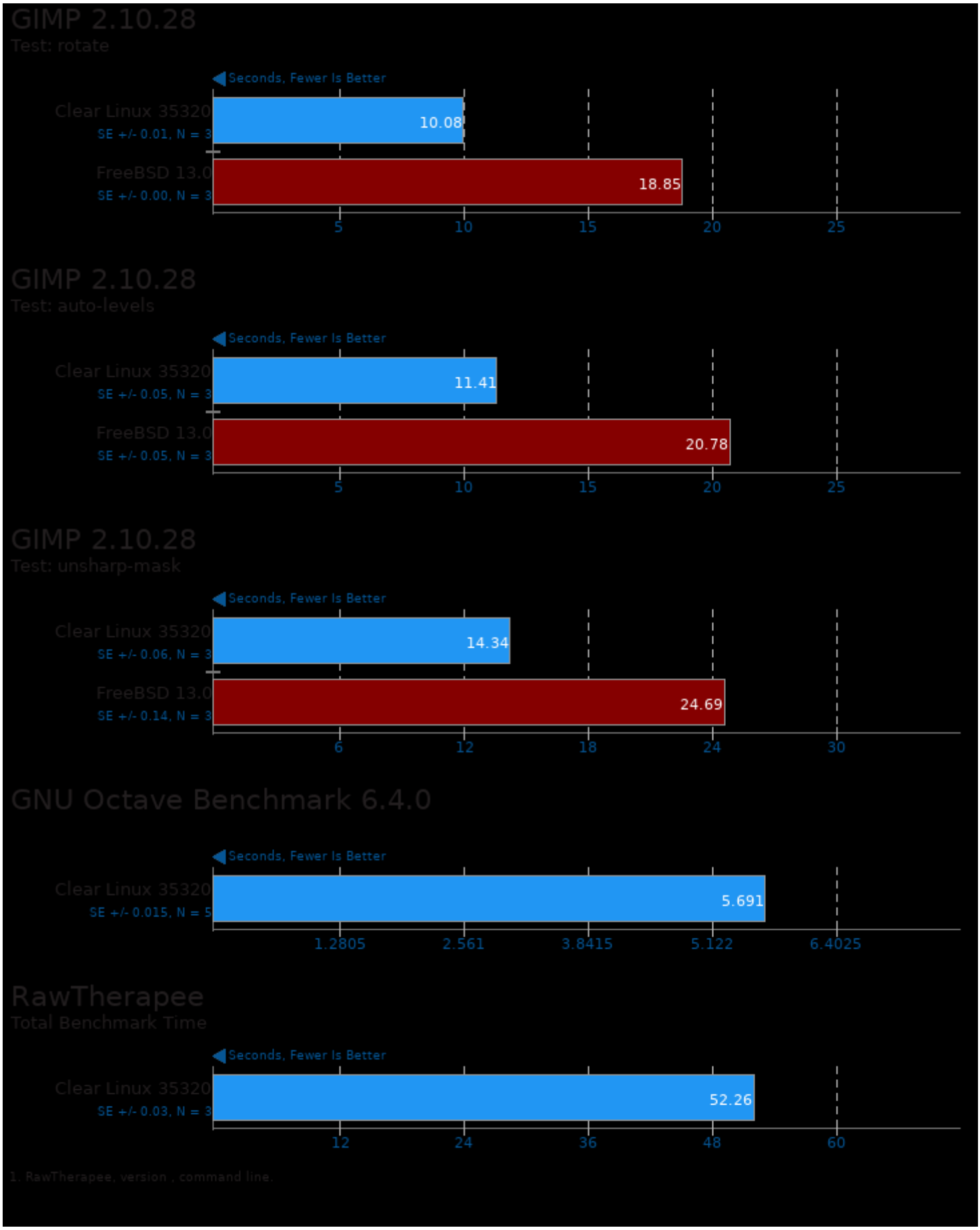
# Clear Compare BSD



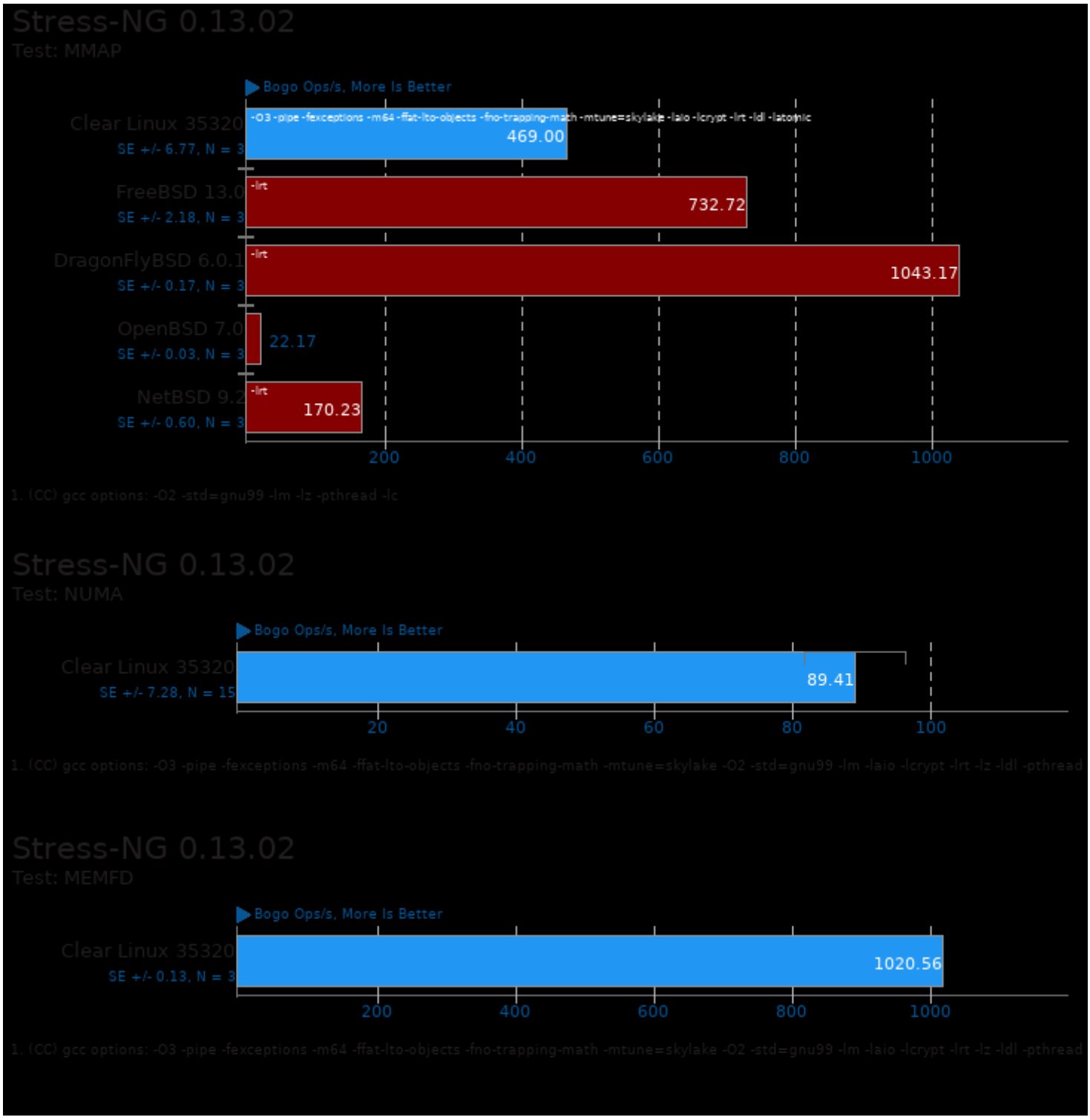
# Clear Compare BSD



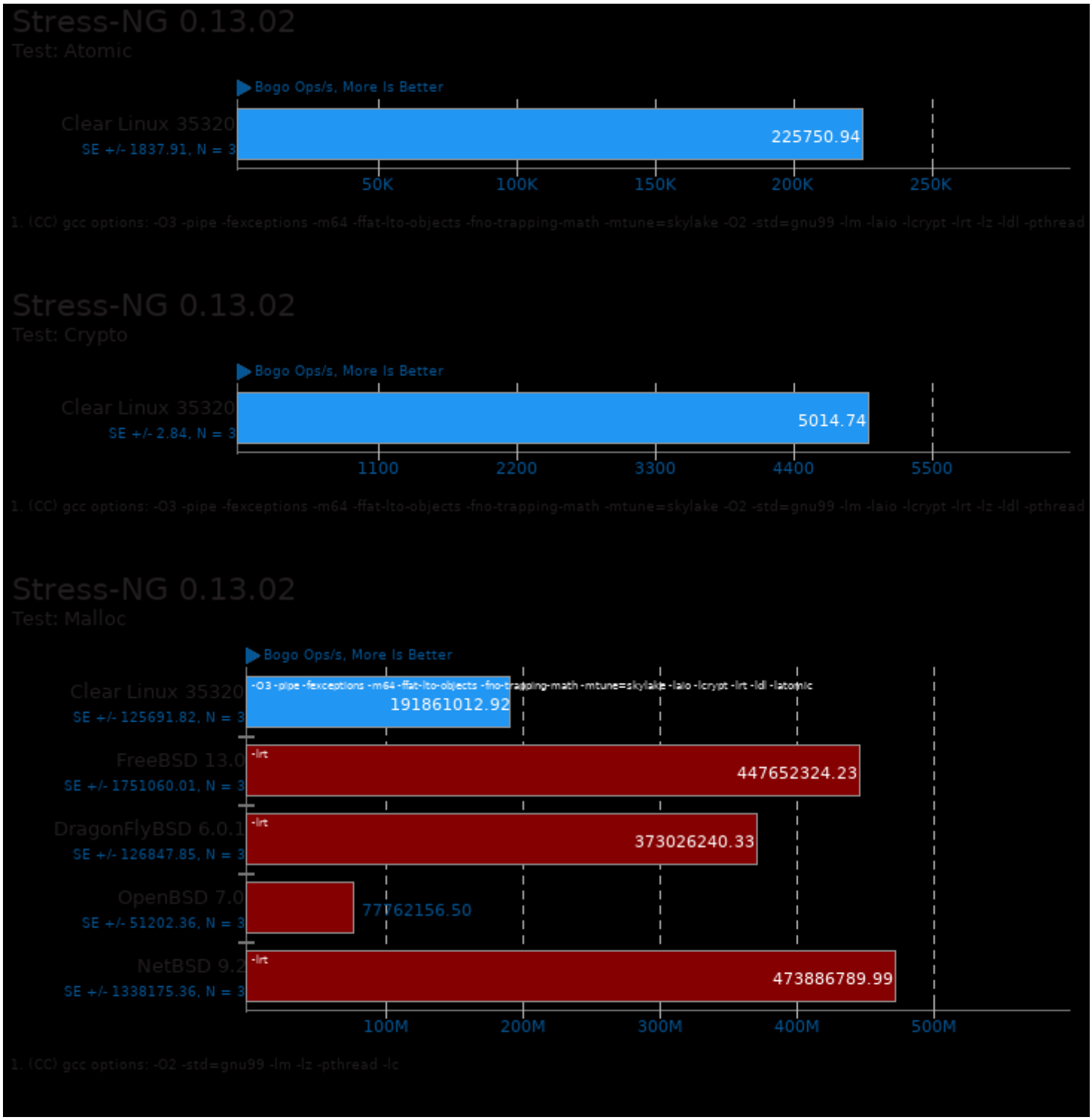
# Clear Compare BSD



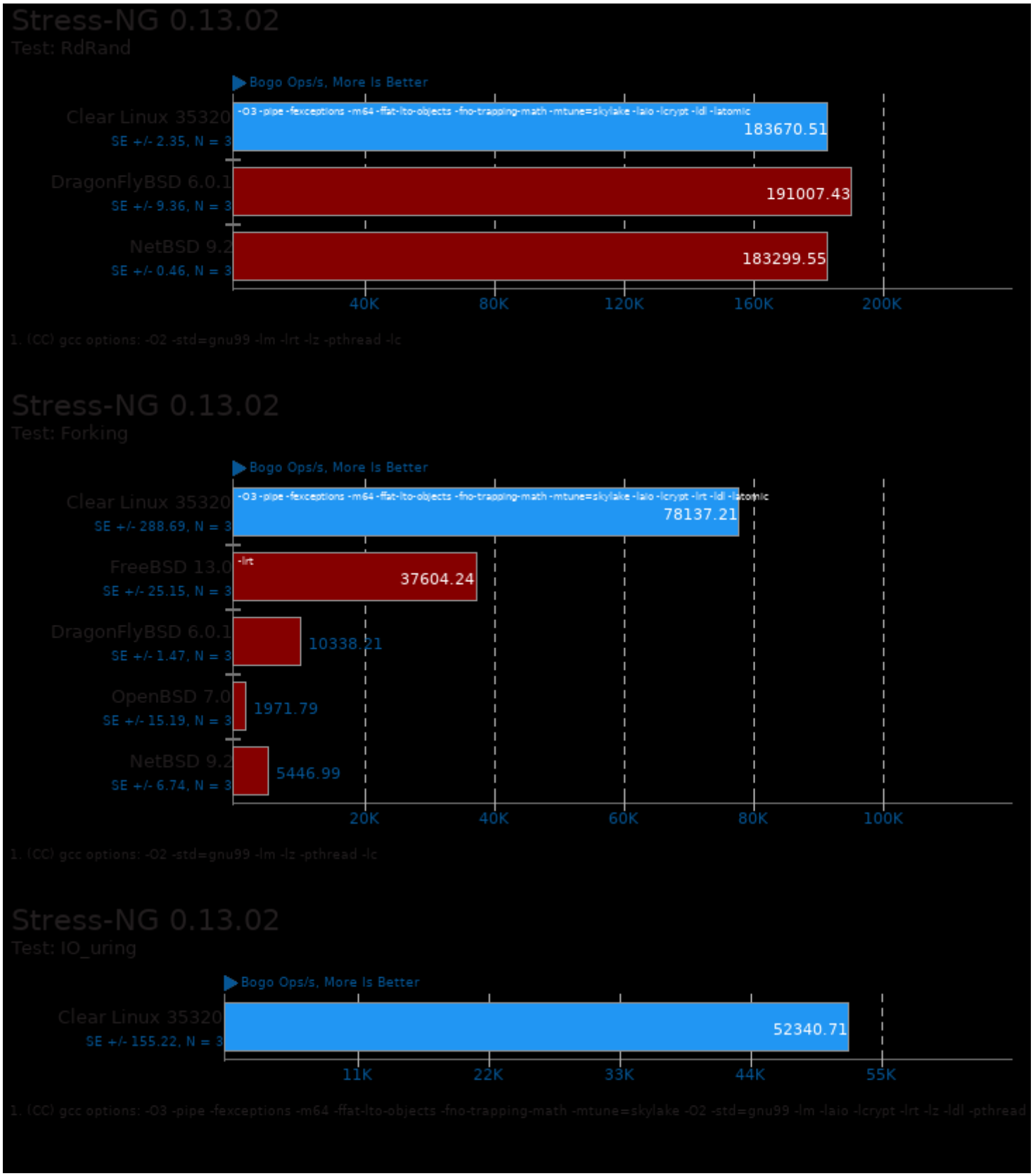
# Clear Compare BSD



# Clear Compare BSD

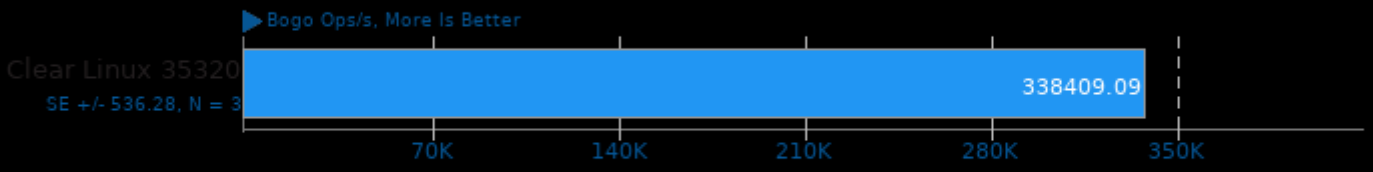


# Clear Compare BSD



## Stress-NG 0.13.02

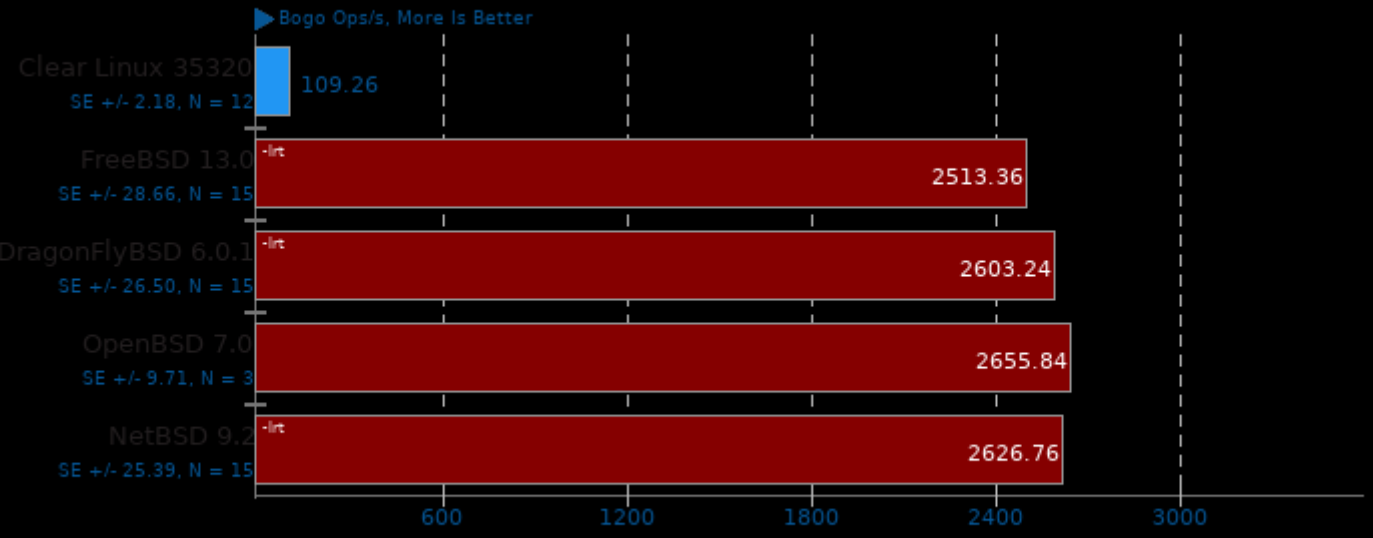
Test: SENDFILE




1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=skylake -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread

## Stress-NG 0.13.02

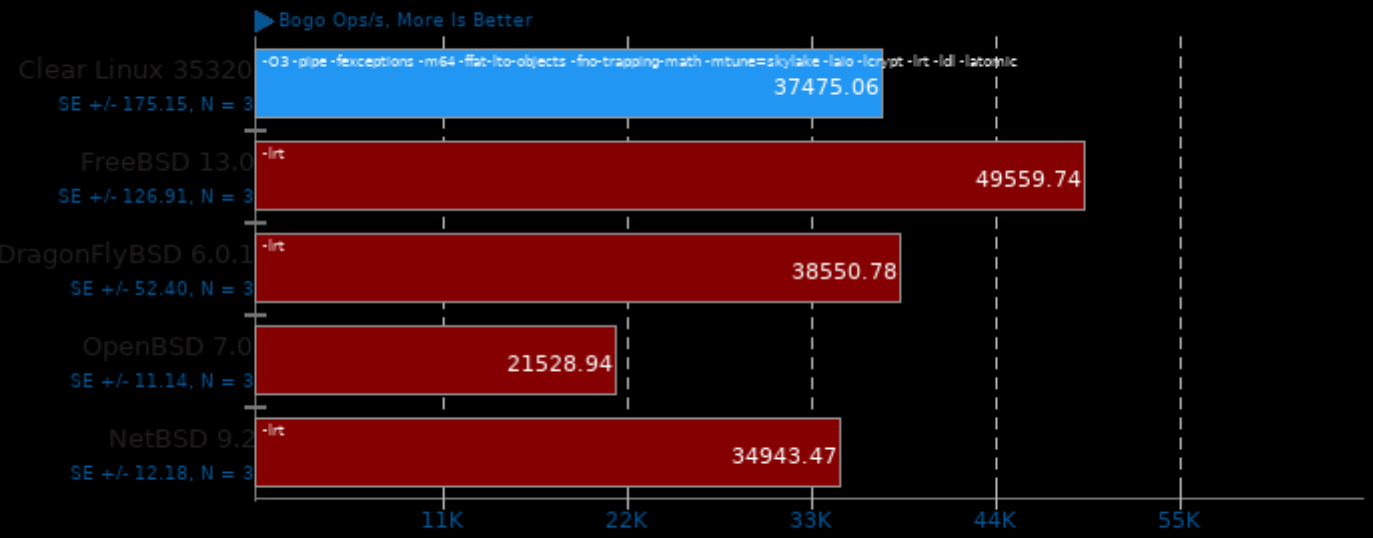
Test: CPU Cache




1. (CC) gcc options: -O2 -std=gnu99 -lm -lz -pthread -lc

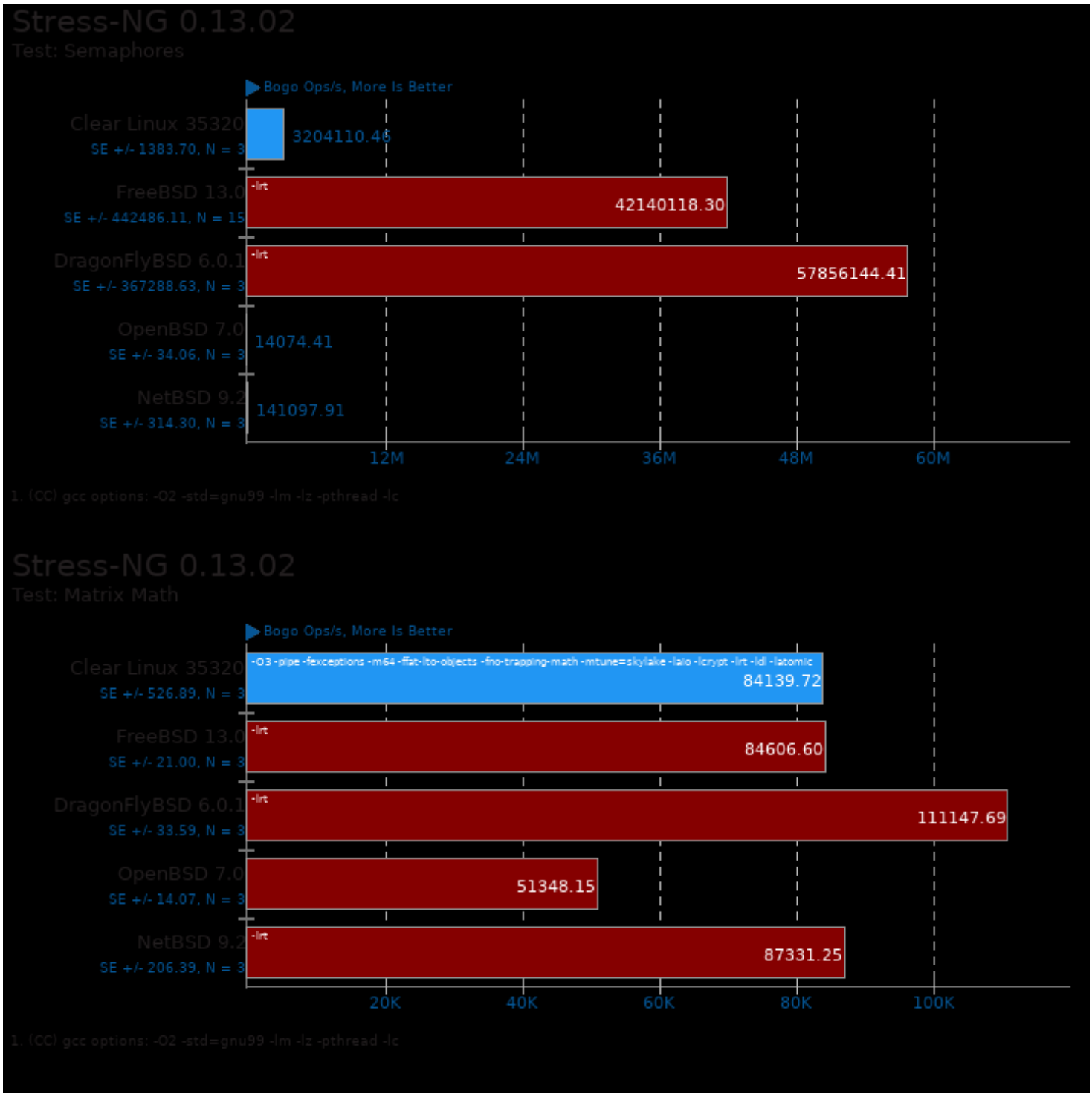
## Stress-NG 0.13.02

Test: CPU Stress

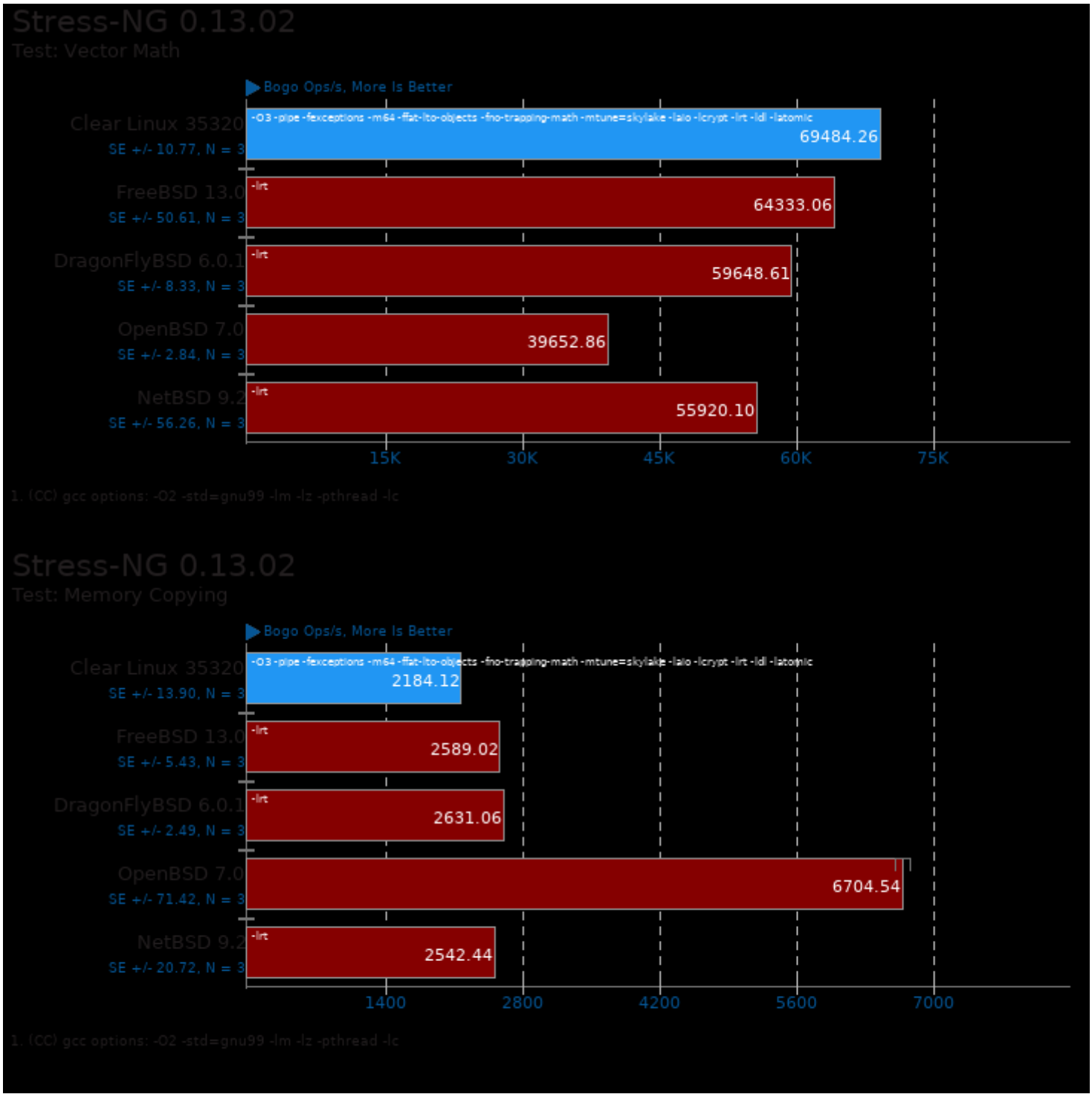



1. (CC) gcc options: -O2 -std=gnu99 -lm -lz -pthread -lc

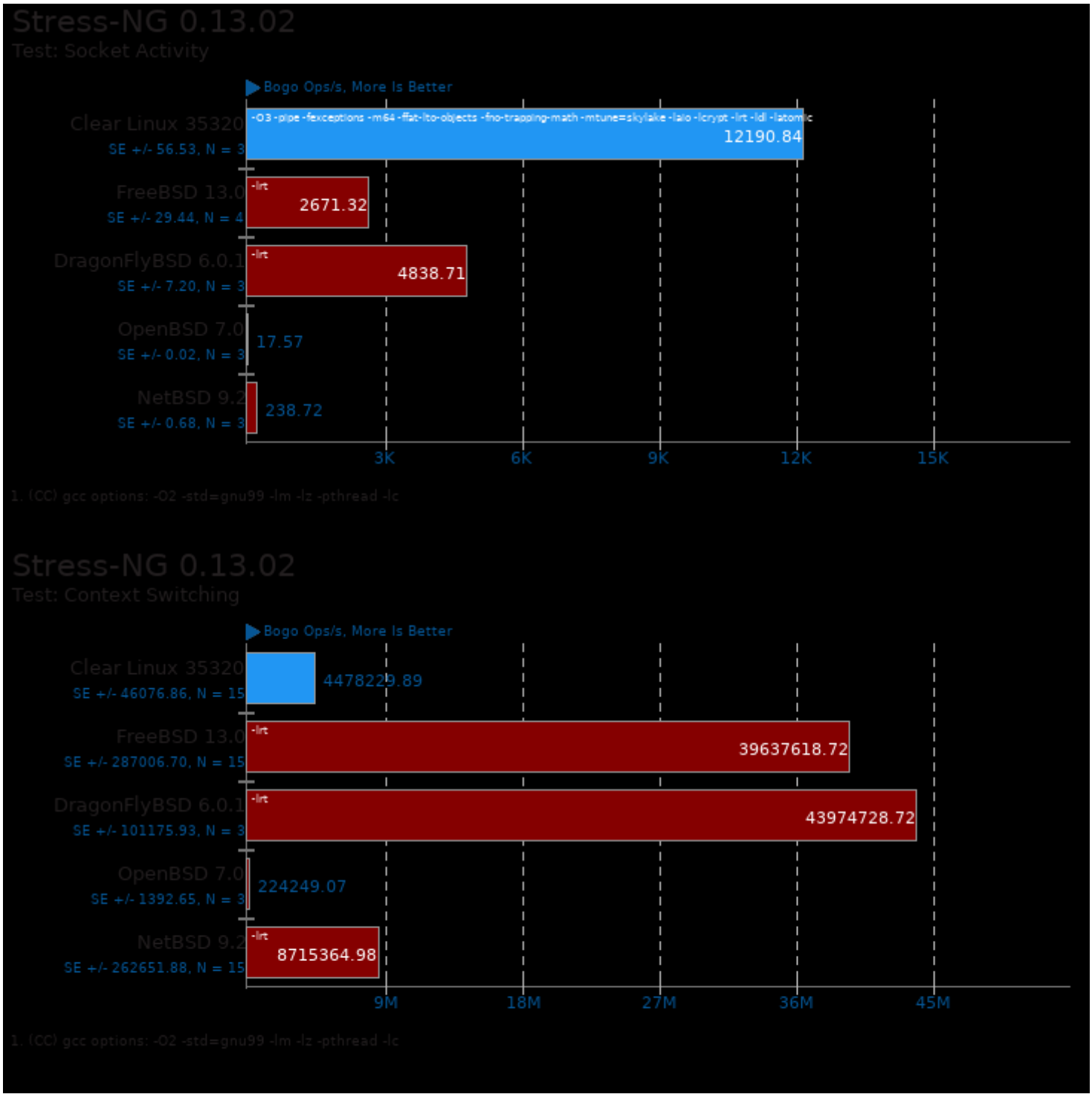
# Clear Compare BSD

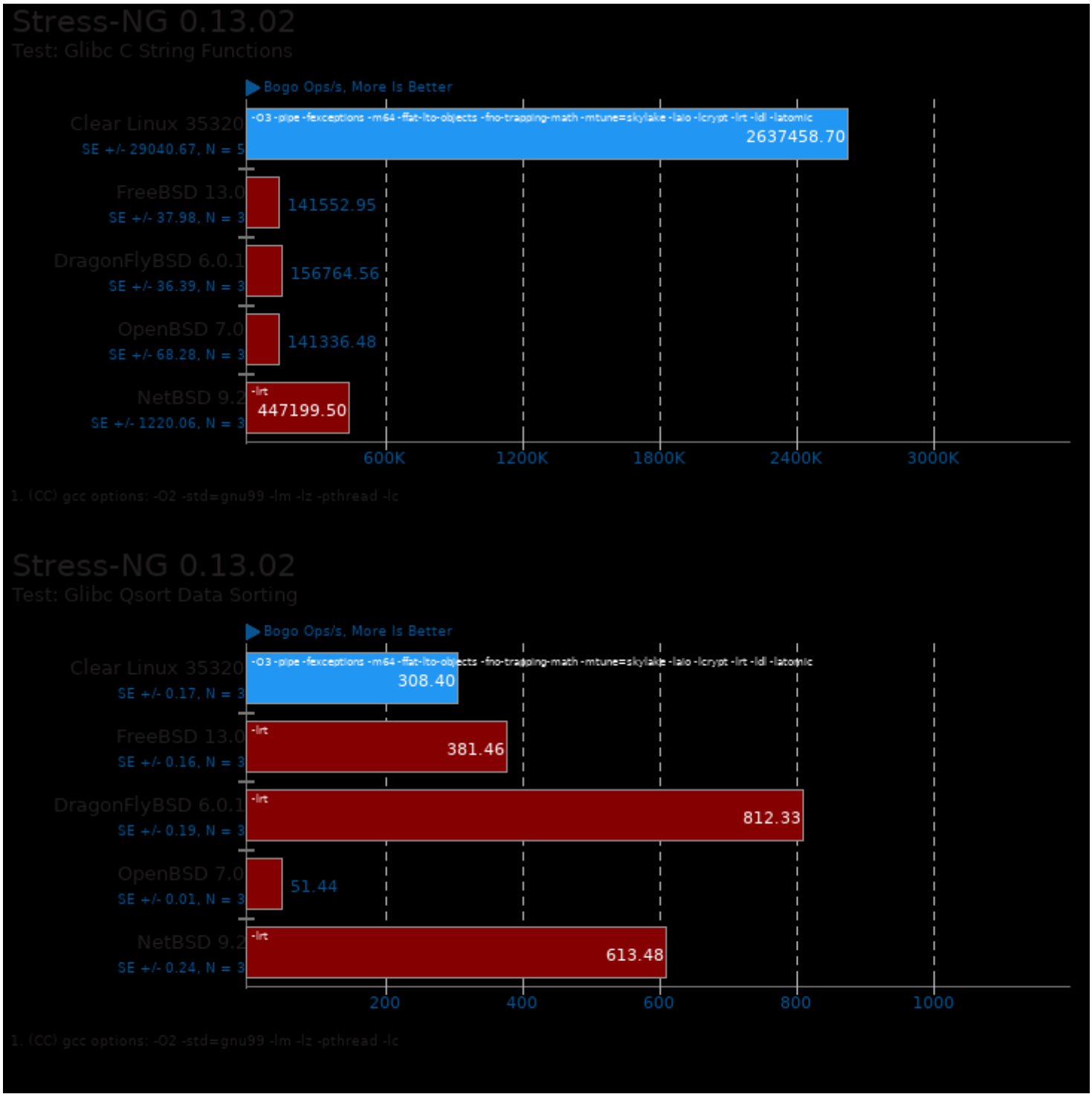


# Clear Compare BSD

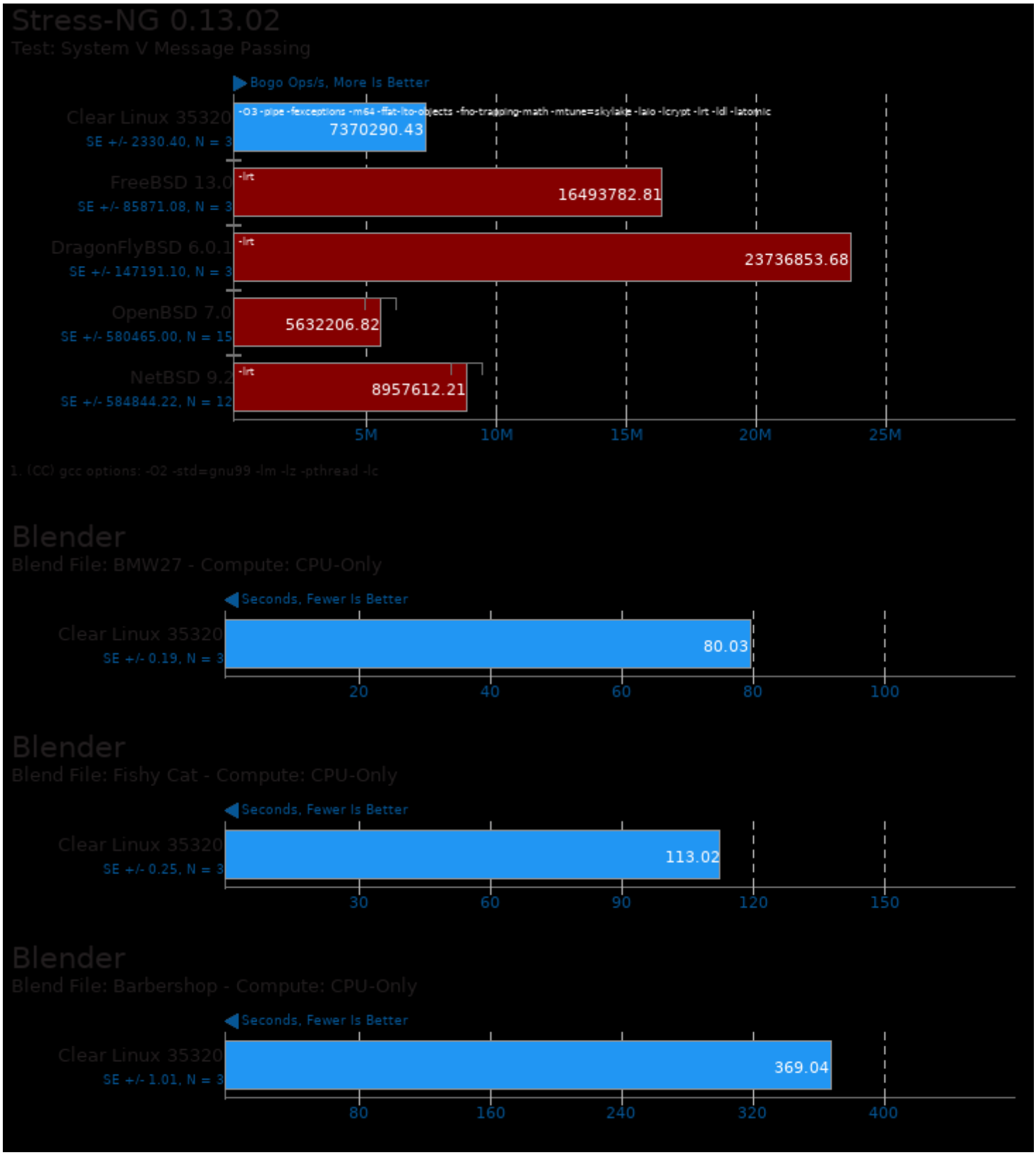


# Clear Compare BSD

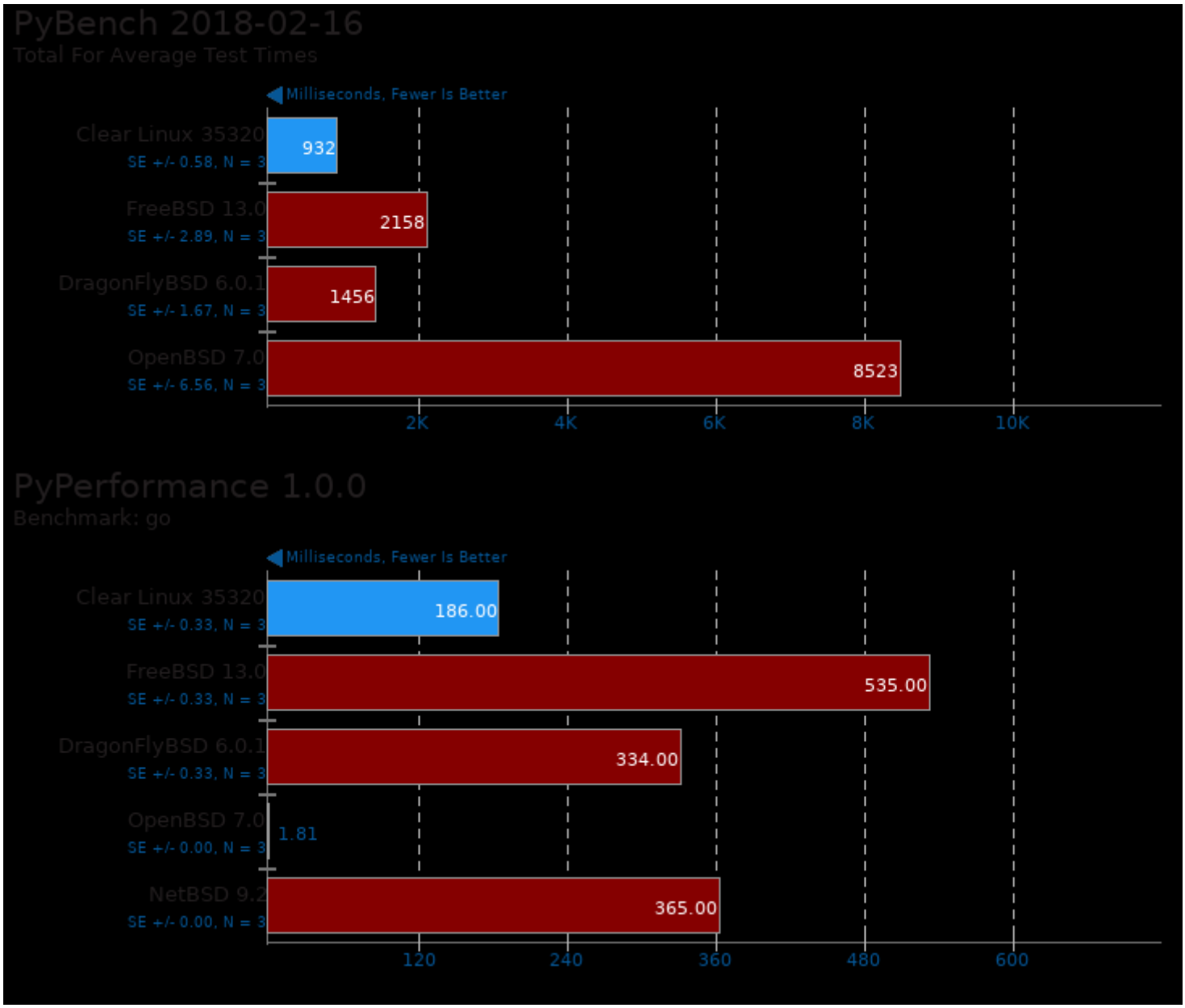



Stress-NG 0.13.02
Test: Glibc C String Functions
Bogo Ops/s, More Is Better
Clear Linux 35320
SE +/- 29040.67, N = 5
-O3 -pipe -fexceptions -m64 -flat-lto-objects -fno-trapping-math -mtune=skylake -laio -lcrypt -lrt -ldl -latomic
2637458.70
FreeBSD 13.0
SE +/- 37.98, N = 3
141552.95
DragonFlyBSD 6.0.1
SE +/- 36.39, N = 3
156764.56
OpenBSD 7.0
SE +/- 68.28, N = 3
141336.48
NetBSD 9.2
SE +/- 1220.06, N = 3
-lrt
447199.50
600K
1200K
1800K
2400K
3000K
1. (CC) gcc options: -O2 -std=gnu99 -lm -lz -pthread -lc
Stress-NG 0.13.02
Test: Glibc Qsort Data Sorting
Bogo Ops/s, More Is Better
Clear Linux 35320
SE +/- 0.17, N = 3
-O3 -pipe -fexceptions -m64 -flat-lto-objects -fno-trapping-math -mtune=skylake -laio -lcrypt -lrt -ldl -latomic
308.40
FreeBSD 13.0
SE +/- 0.16, N = 3
-lrt
381.46
DragonFlyBSD 6.0.1
SE +/- 0.19, N = 3
-lrt
812.33
OpenBSD 7.0
SE +/- 0.01, N = 3
51.44
NetBSD 9.2
SE +/- 0.24, N = 3
-lrt
613.48
200
400
600
800
1000
1. (CC) gcc options: -O2 -std=gnu99 -lm -lz -pthread -lc

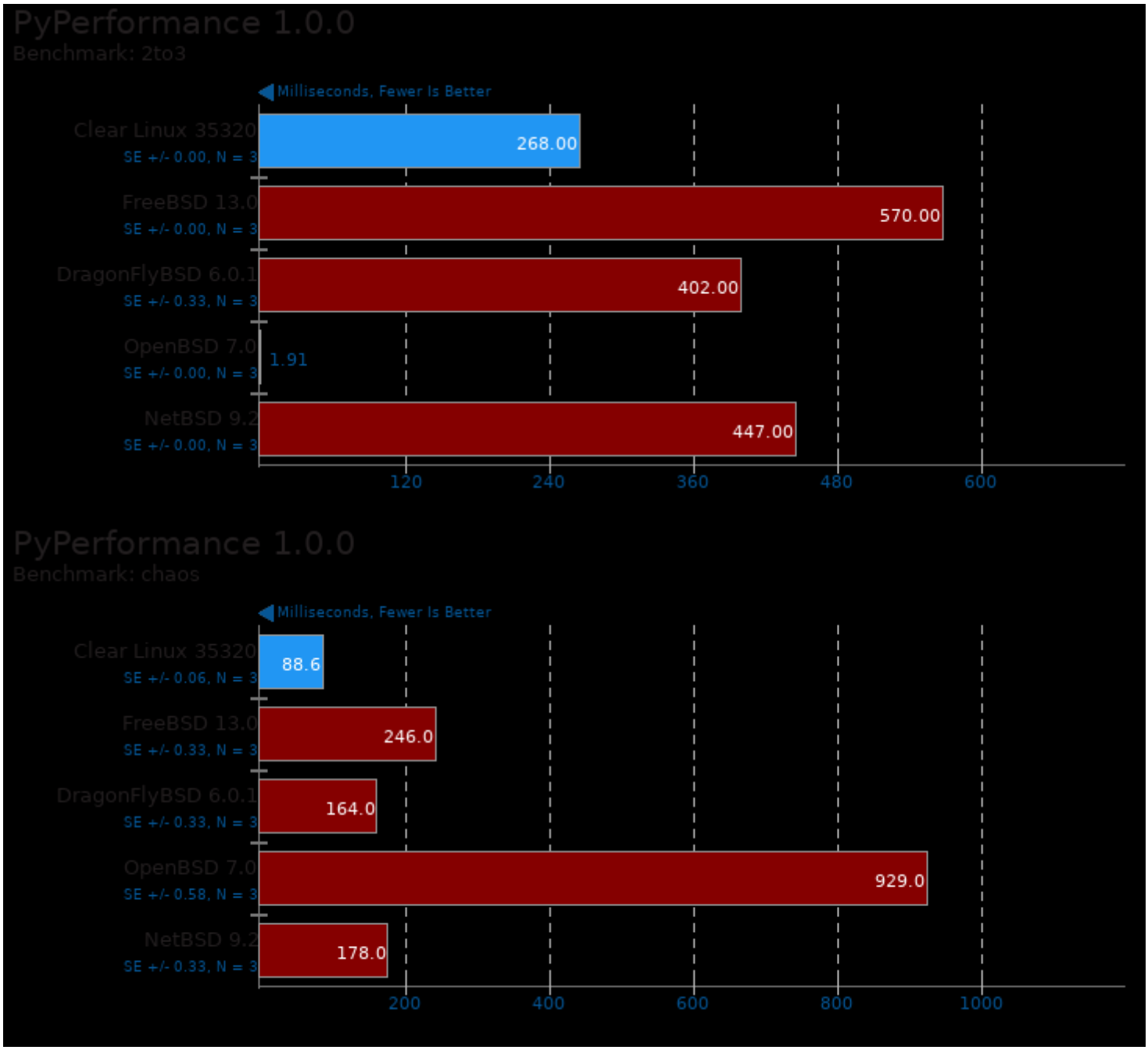
# Clear Compare BSD



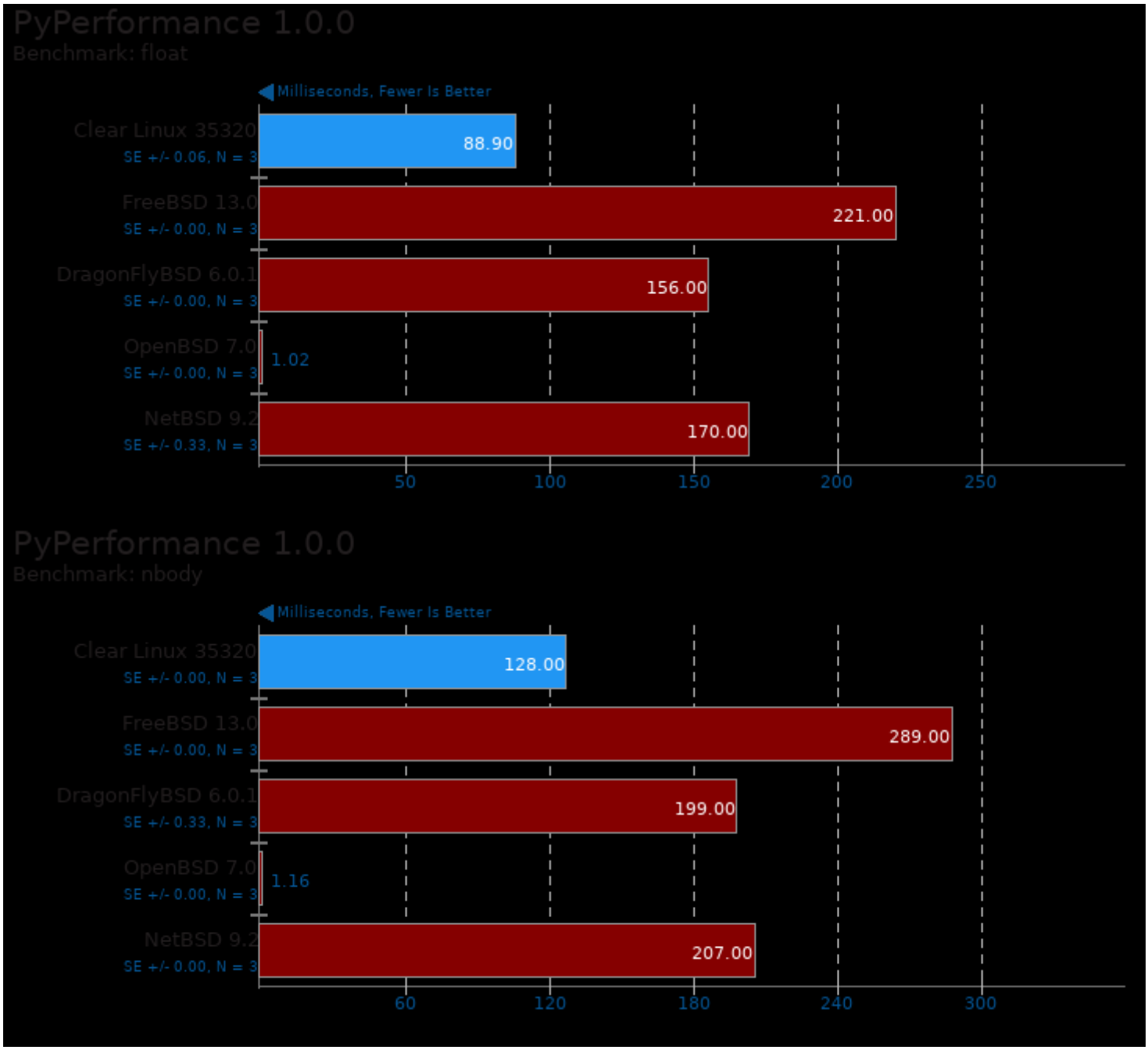
# Clear Compare BSD



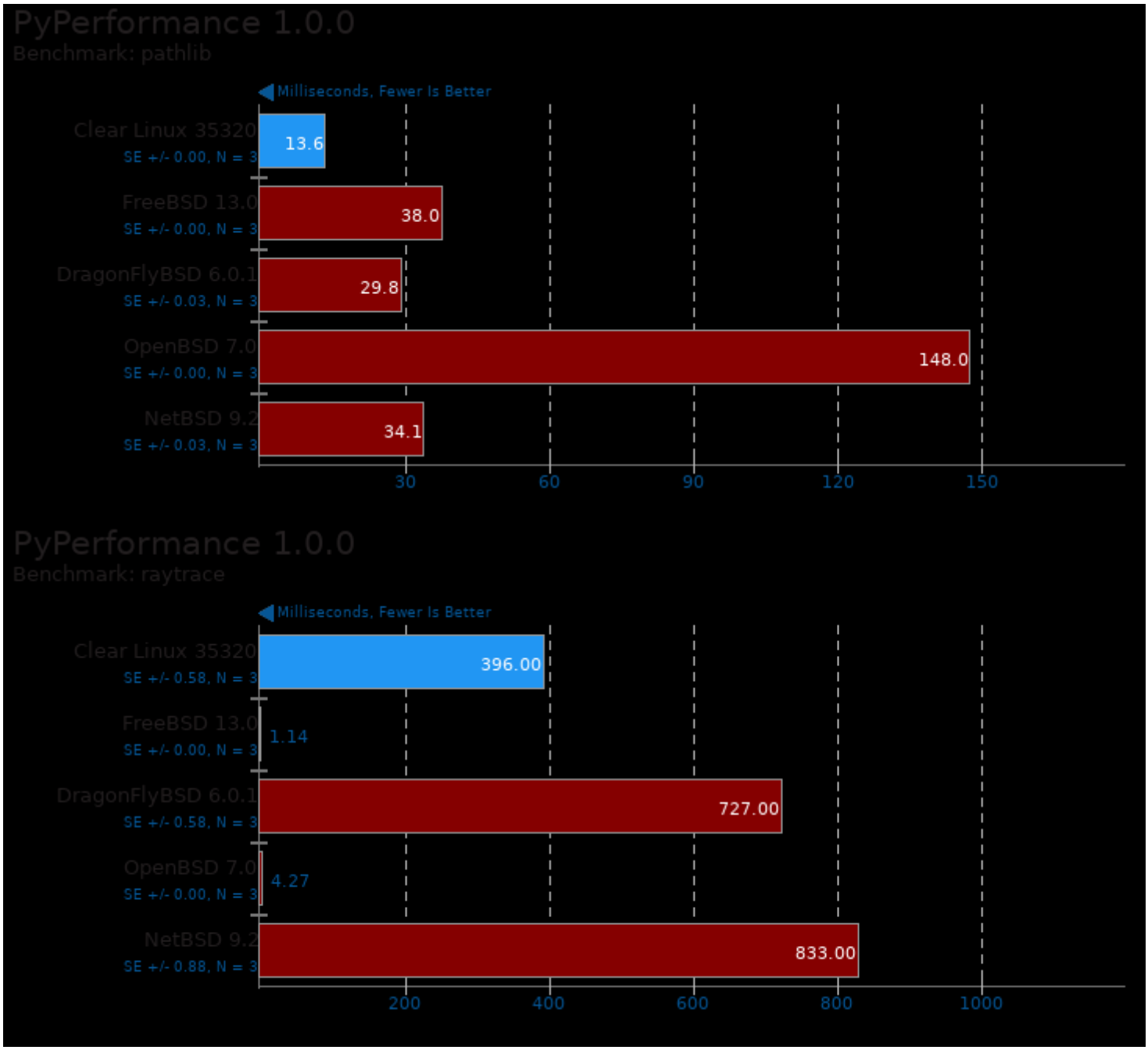
# Clear Compare BSD



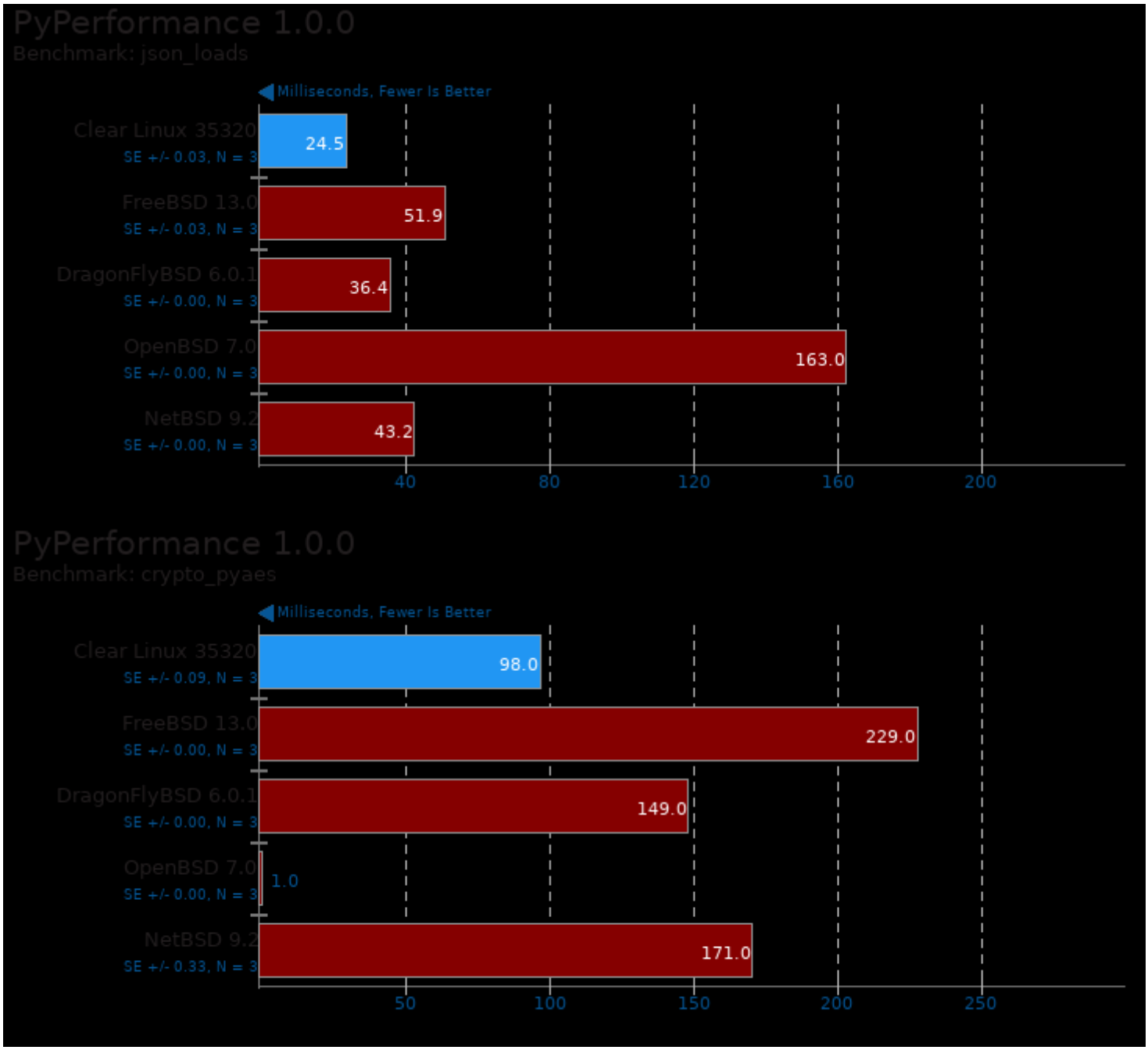
# Clear Compare BSD



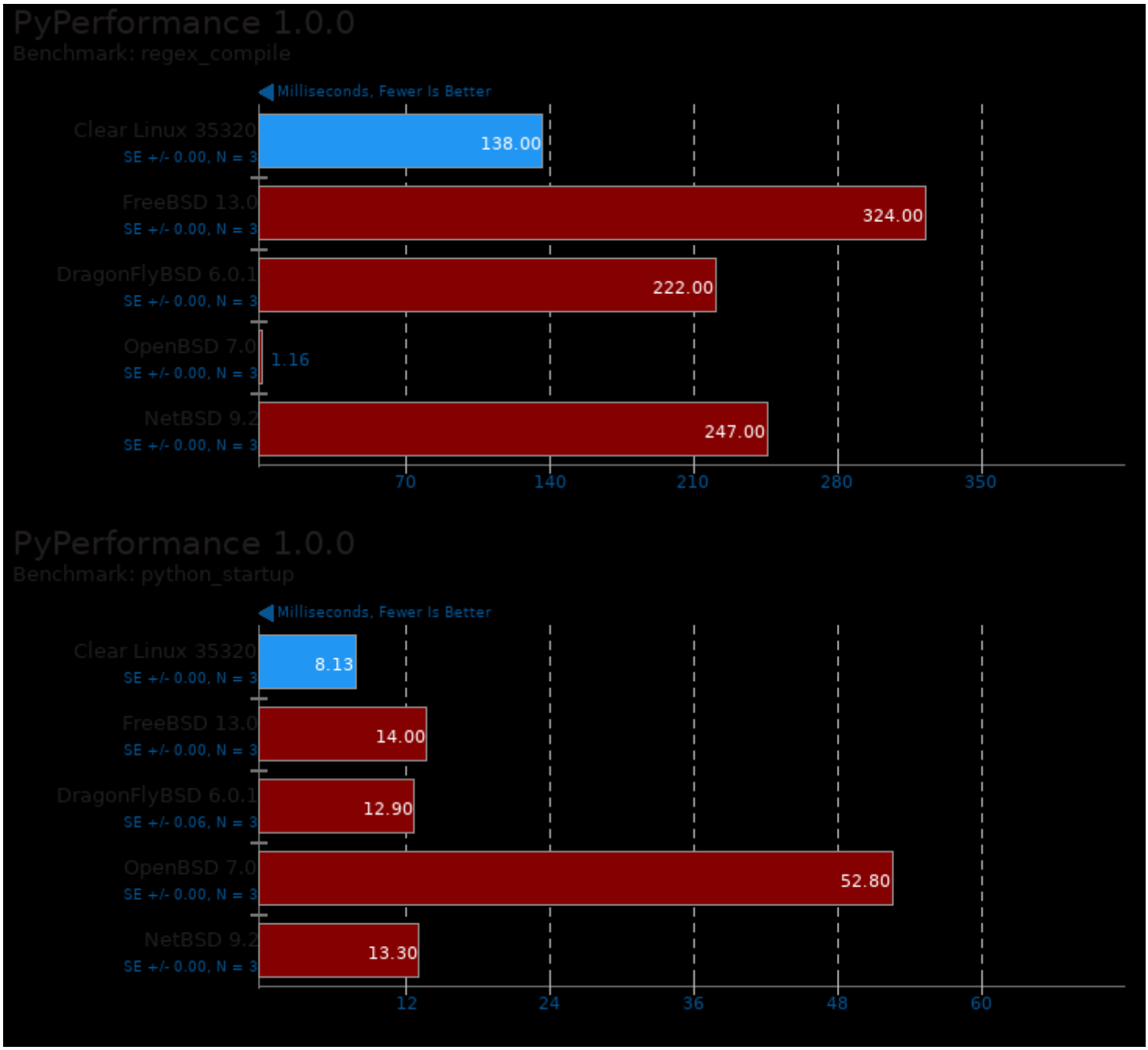
# Clear Compare BSD



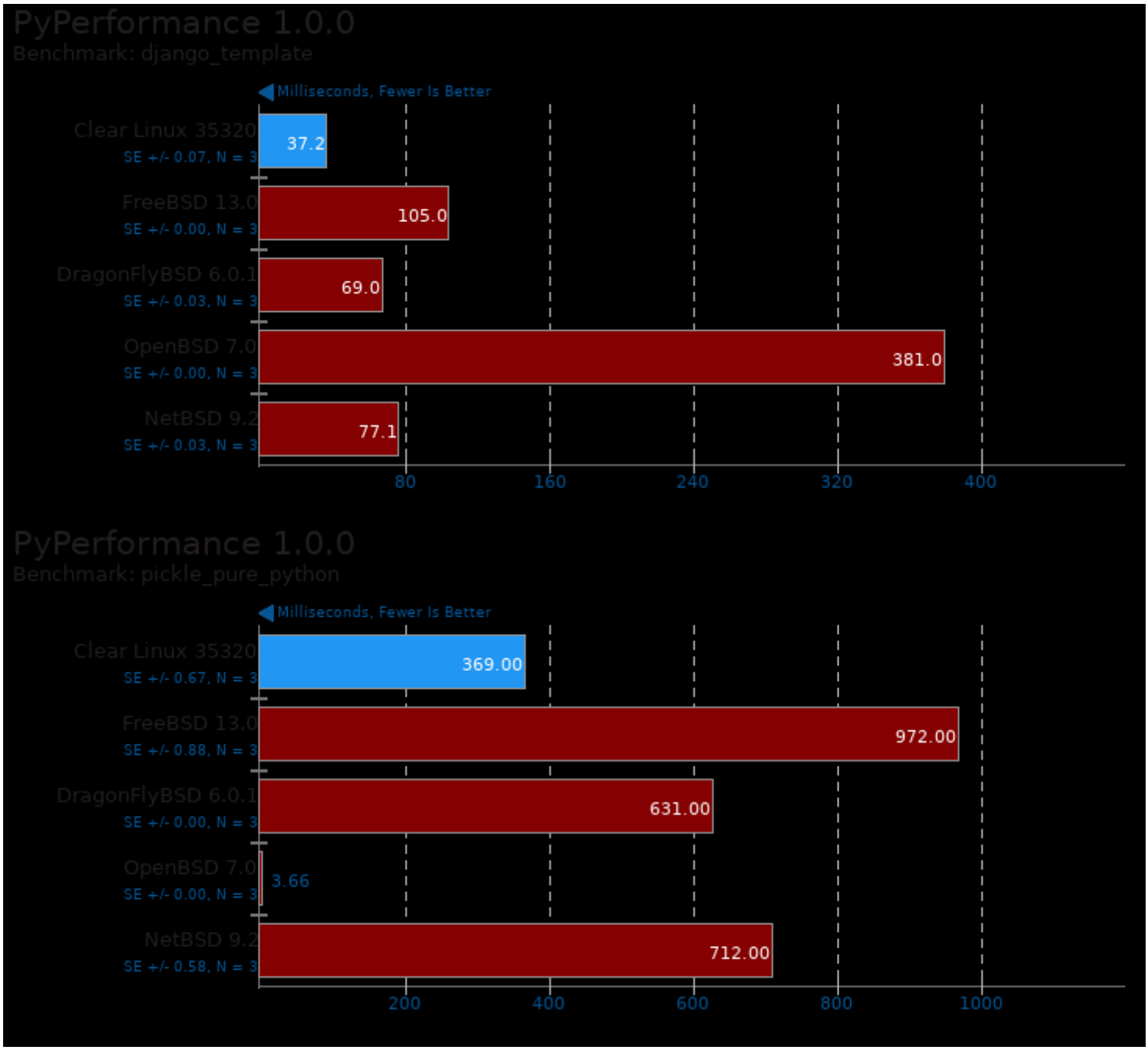
# Clear Compare BSD



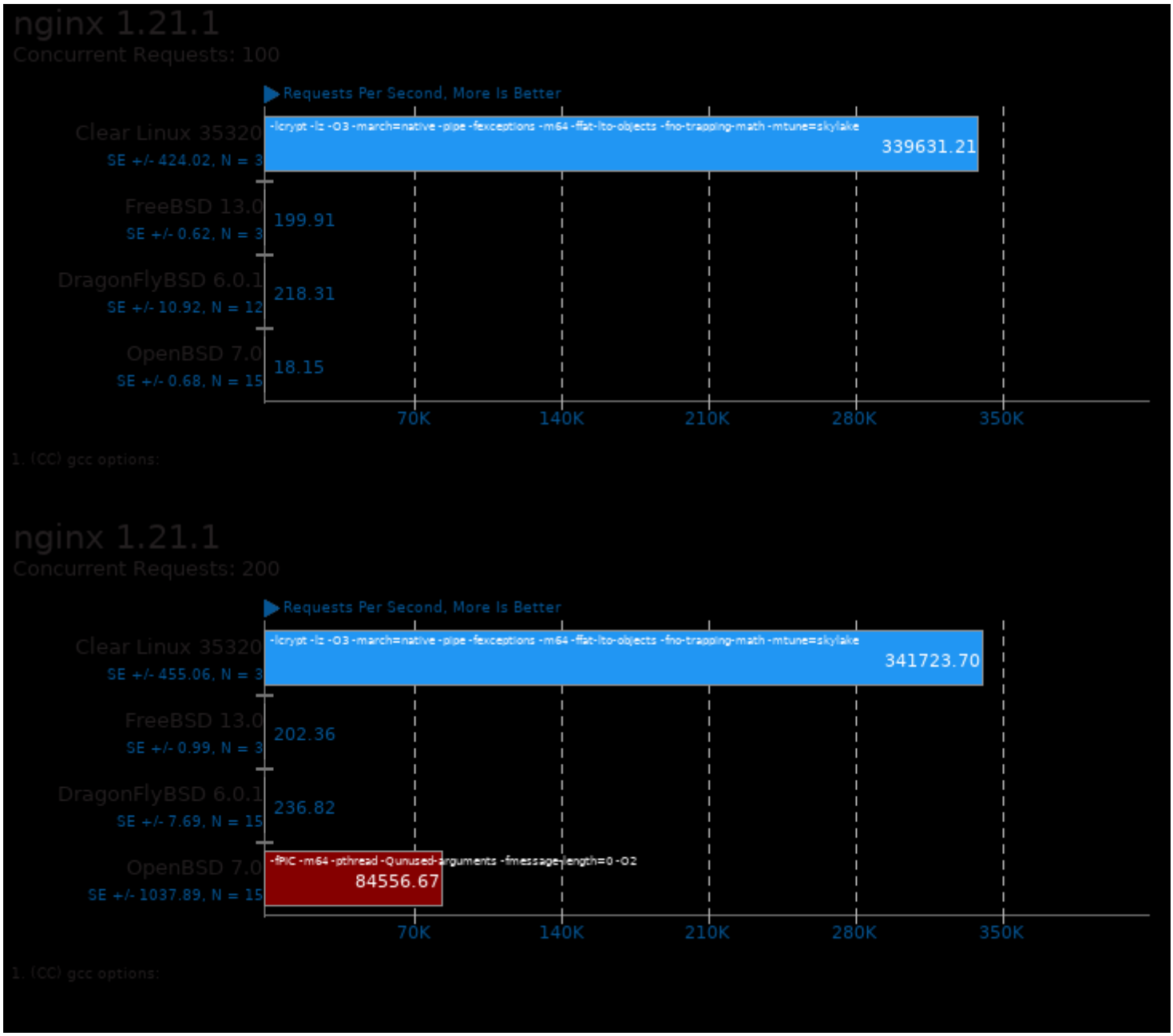
# Clear Compare BSD



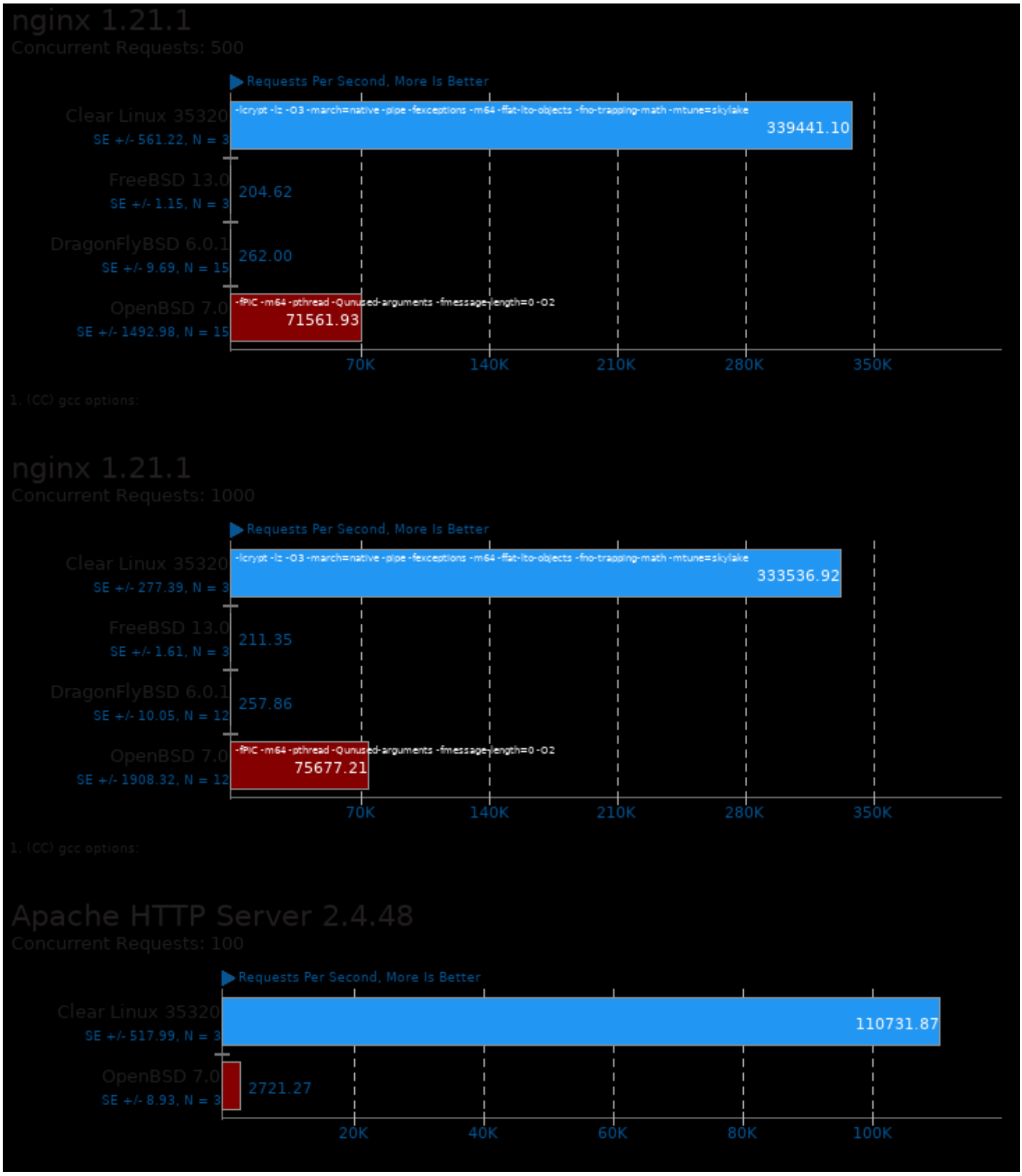
# Clear Compare BSD



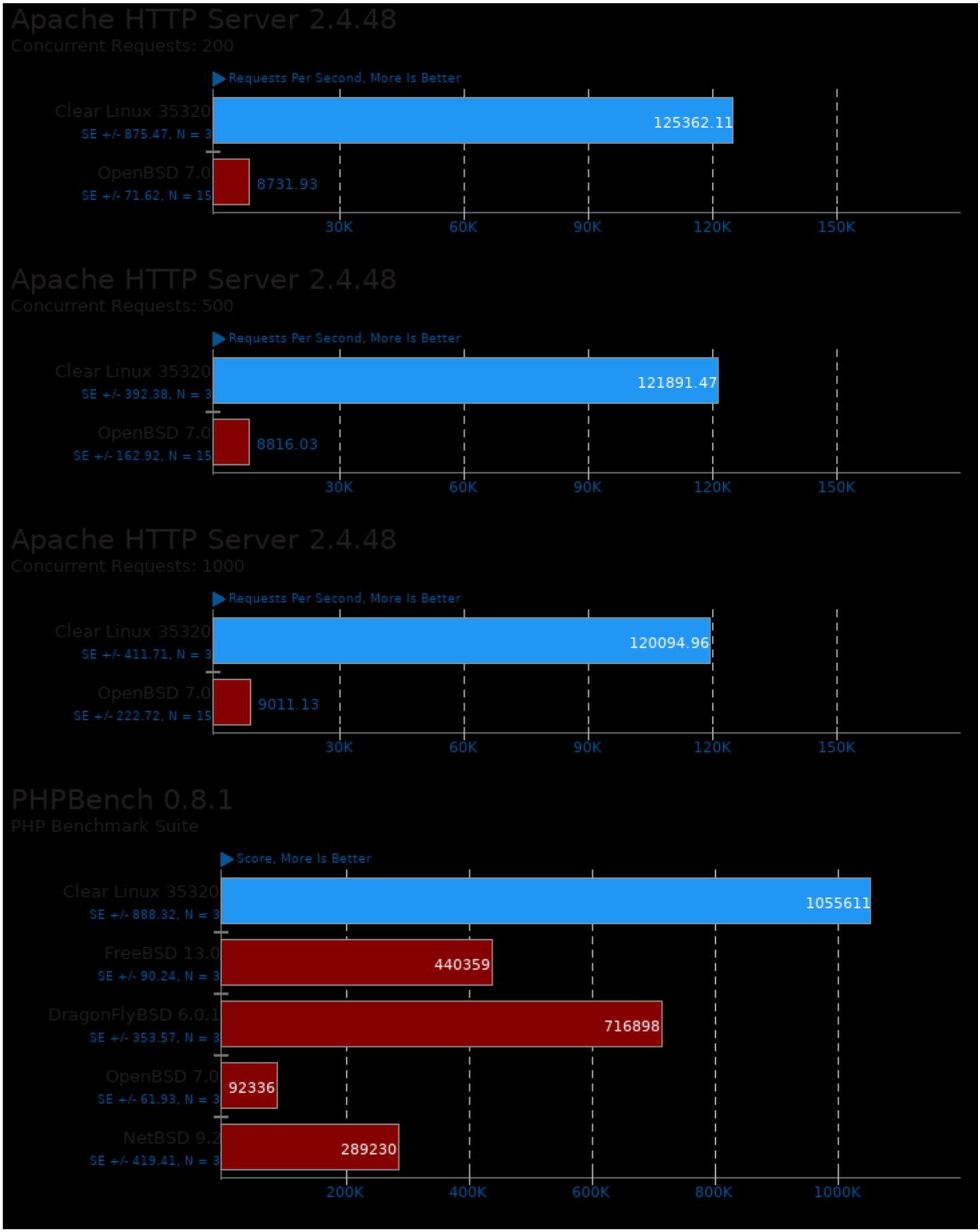
# Clear Compare BSD



# Clear Compare BSD



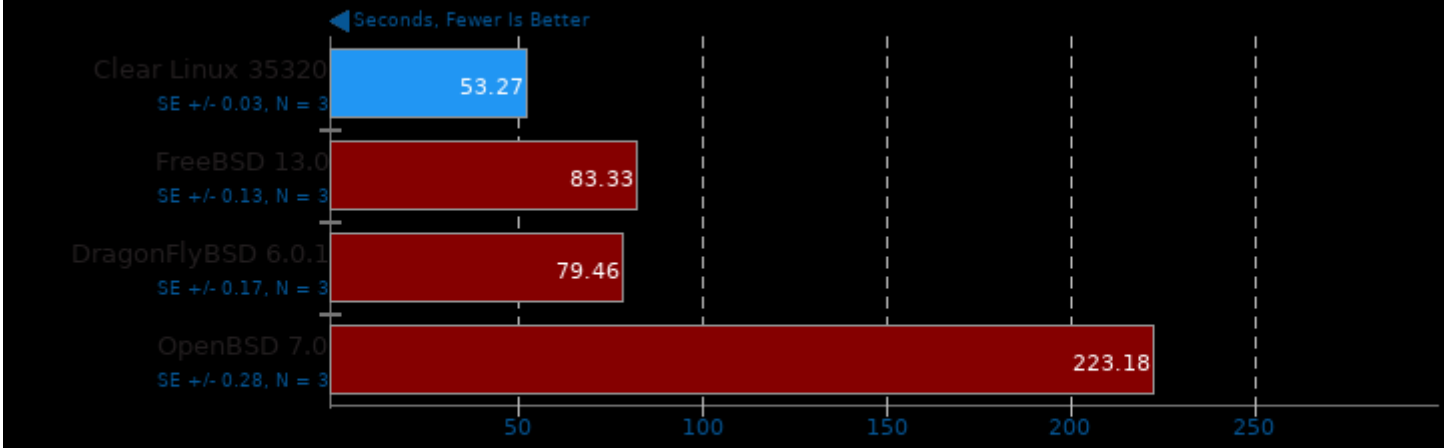
# Clear Compare BSD



# Clear Compare BSD

## Git

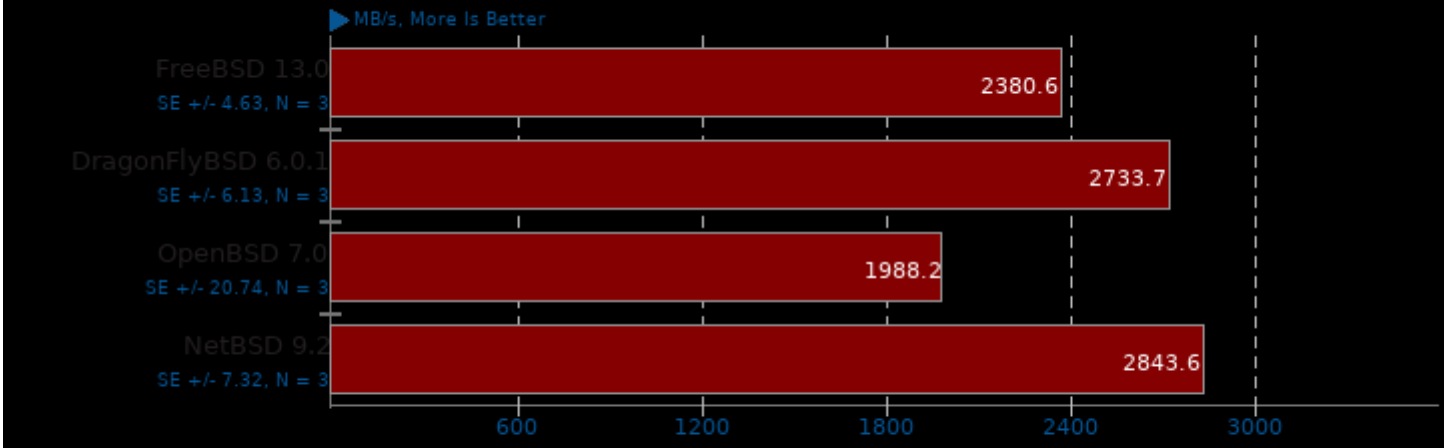
Time To Complete Common Git Commands




1. Clear Linux 35320: git version 2.34.0
2. FreeBSD 13.0: git version 2.32.0
3. DragonFlyBSD 6.0.1: git version 2.32.0
4. OpenBSD 7.0: git version 2.33.0

## Zstd Compression

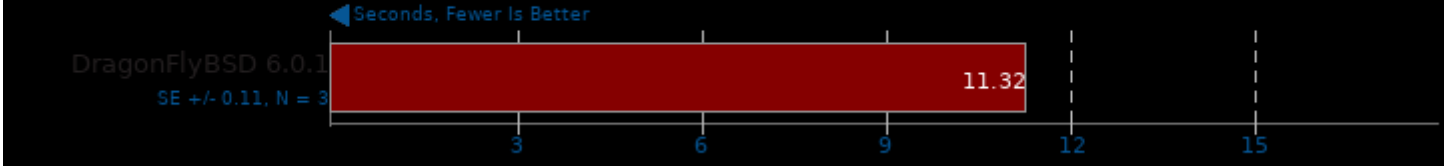
Compression Level: 3 - Decompression Speed



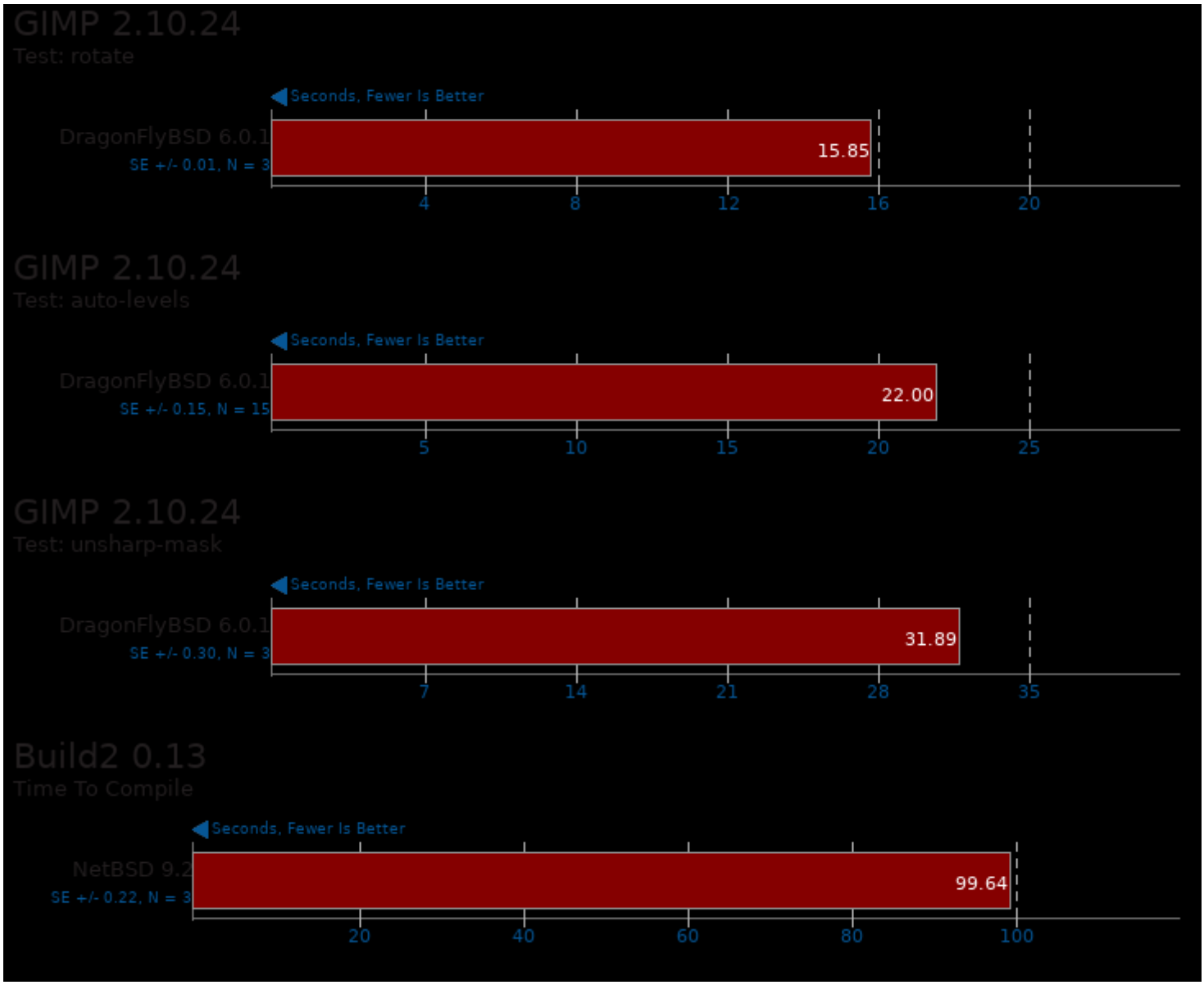

1. FreeBSD 13.0: *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***
2. DragonFlyBSD 6.0.1: *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***
3. OpenBSD 7.0: *** zstd command line interface 64-bits v1.5.0, by Yann Collet ***
4. NetBSD 9.2: *** zstd command line interface 64-bits v1.5.0, by Yann Collet ***

## GIMP 2.10.24

Test: resize

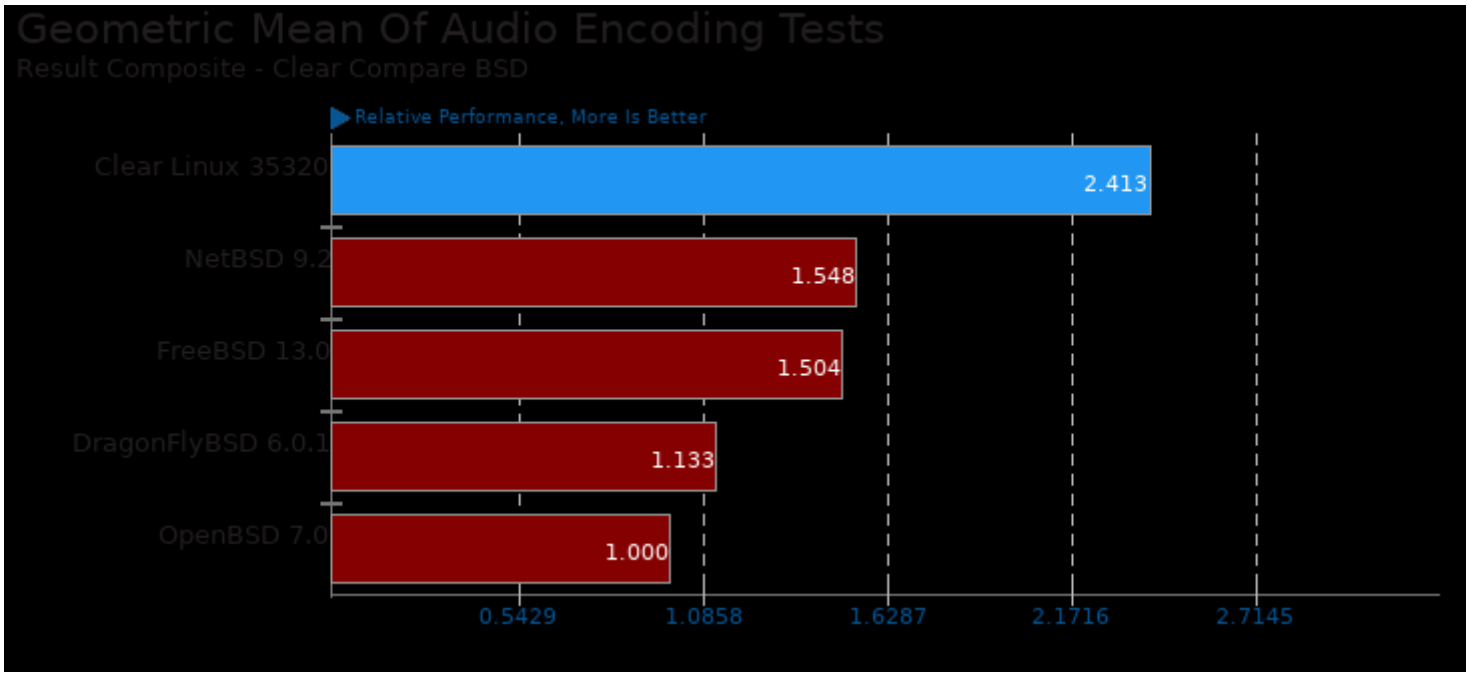


# Clear Compare BSD

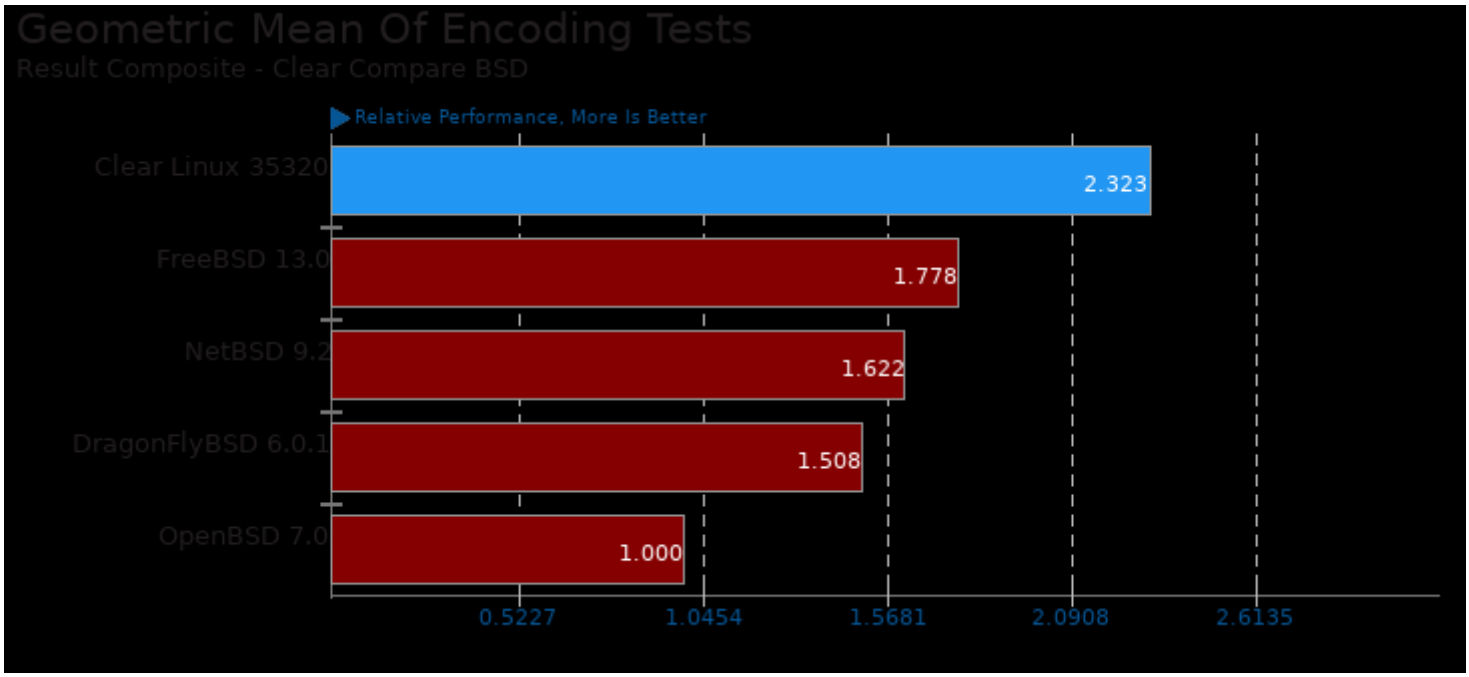


# Clear Compare BSD

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

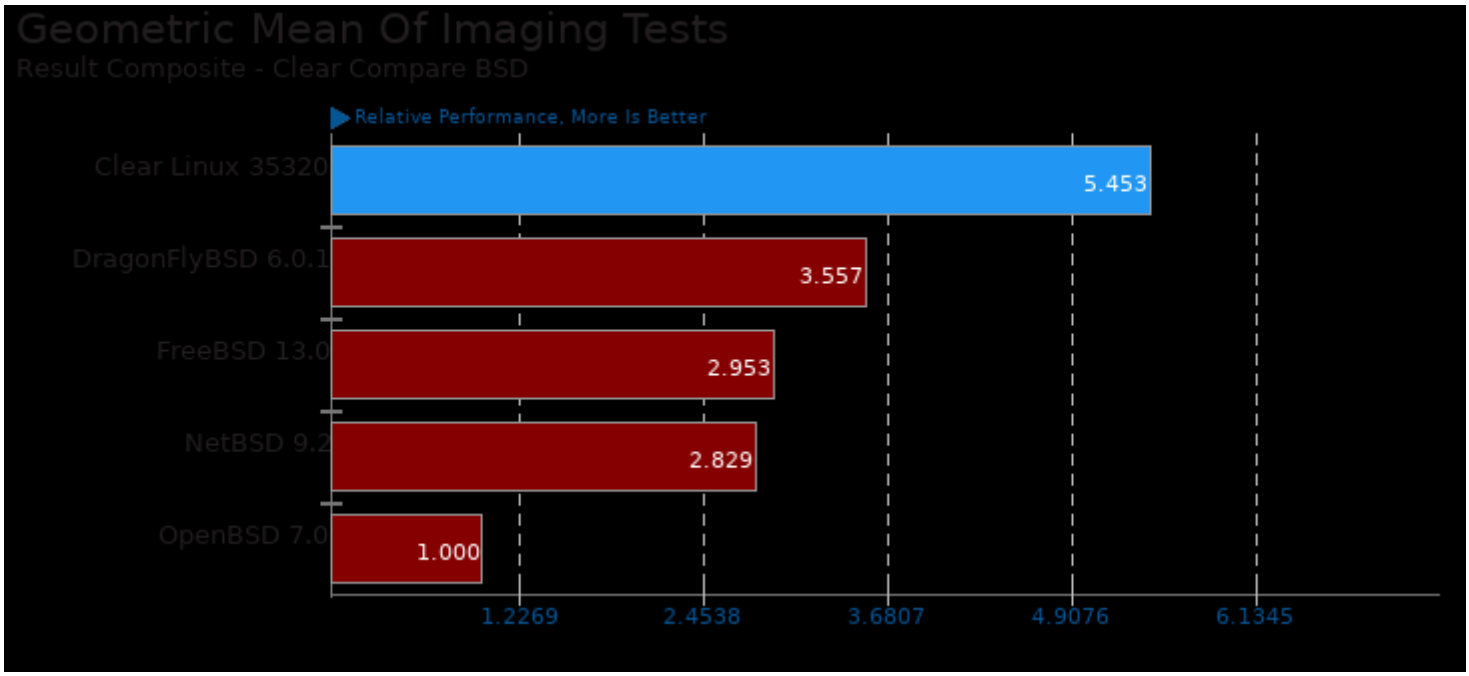



Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/encode-opus

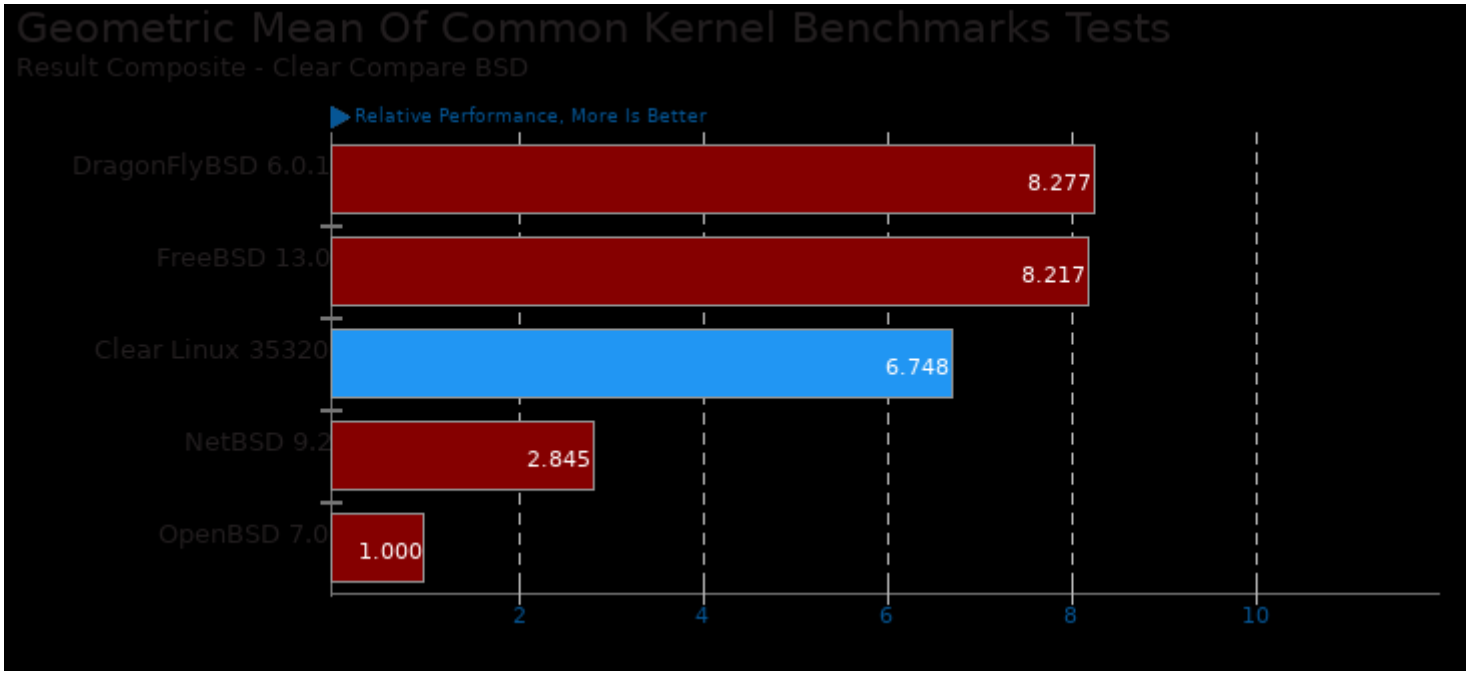



Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac, pts/encode-opus, pts/x264, pts/x265, pts/kvazaar, pts/vpxenc, pts/dav1d, pts/aom-av1 and pts/avifenc

# Clear Compare BSD

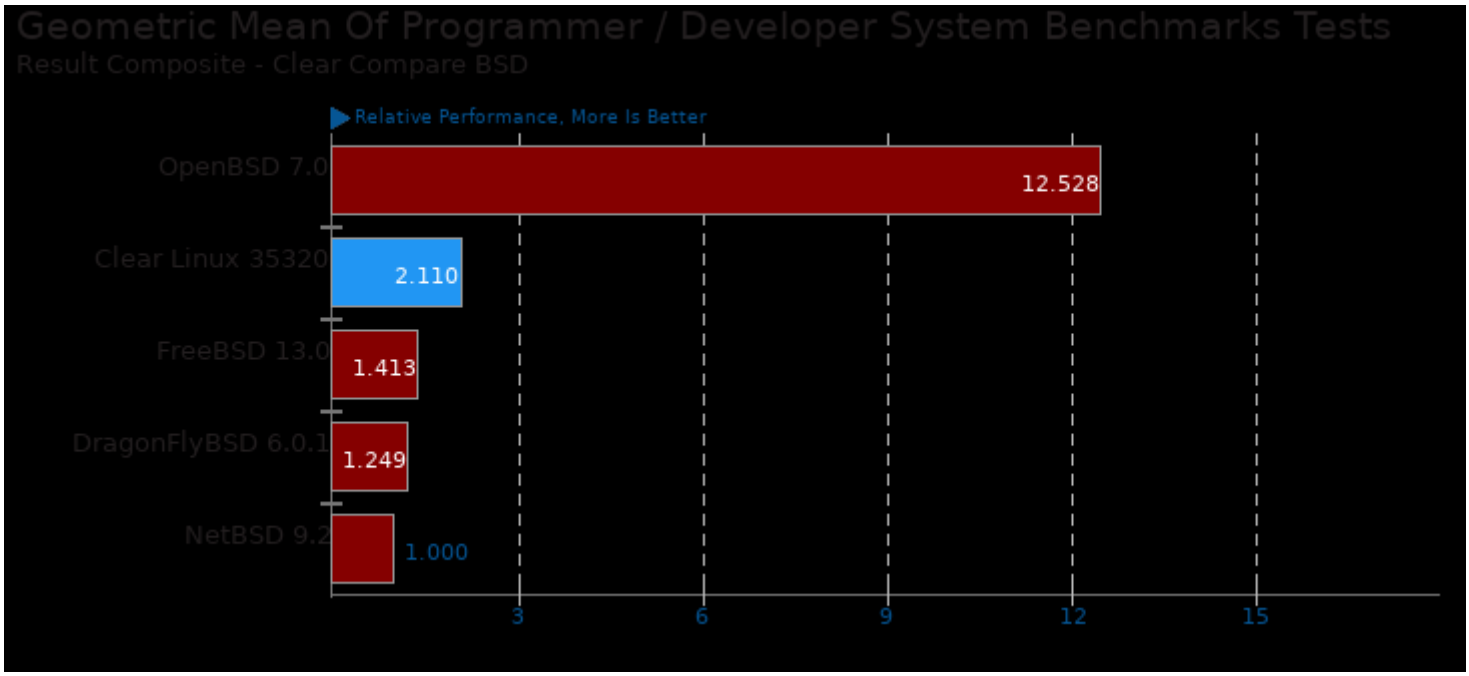



Geometric mean based upon tests: pts/graphics-magick, pts/libraw, system/rawtherapee, pts/tjbench, system/gimp and pts/avifenc

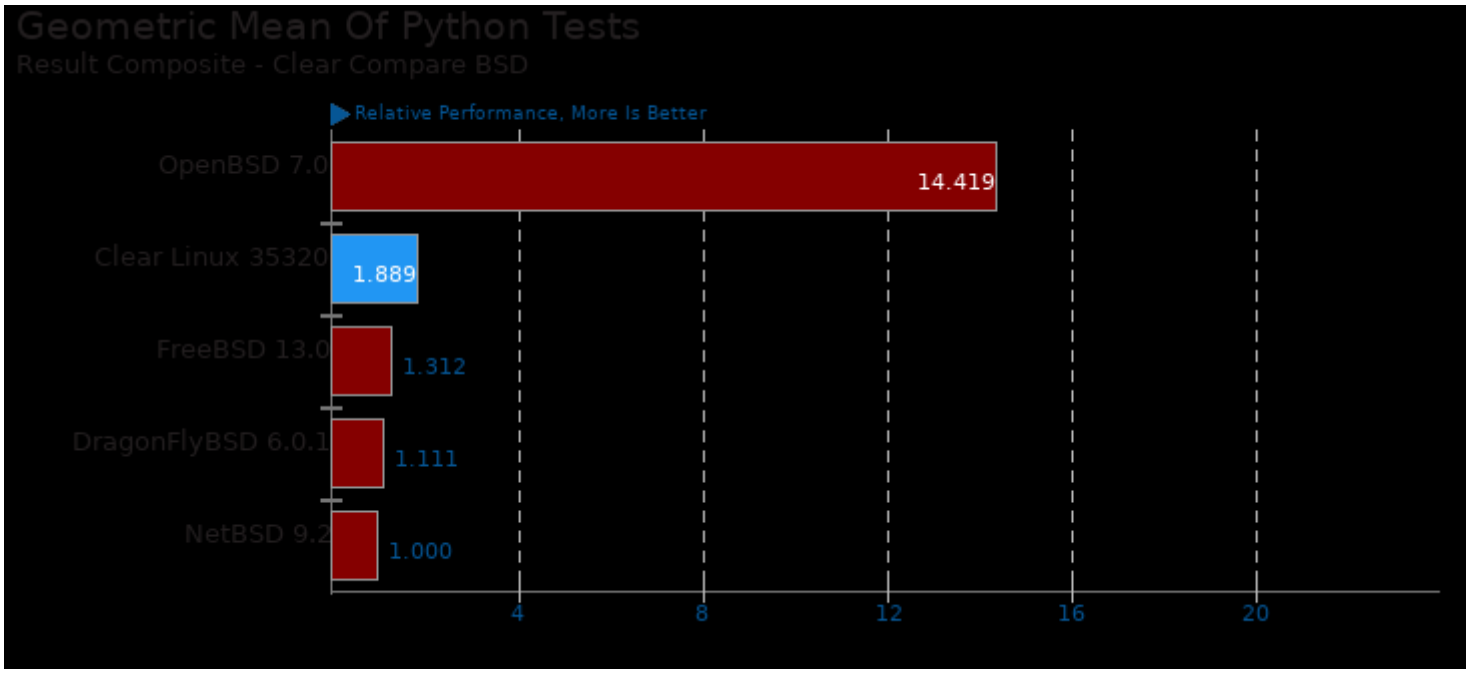



Geometric mean based upon tests: pts/apache, pts/sqlite-speedtest, pts/openssl, pts/stress-ng and pts/osbench

# Clear Compare BSD

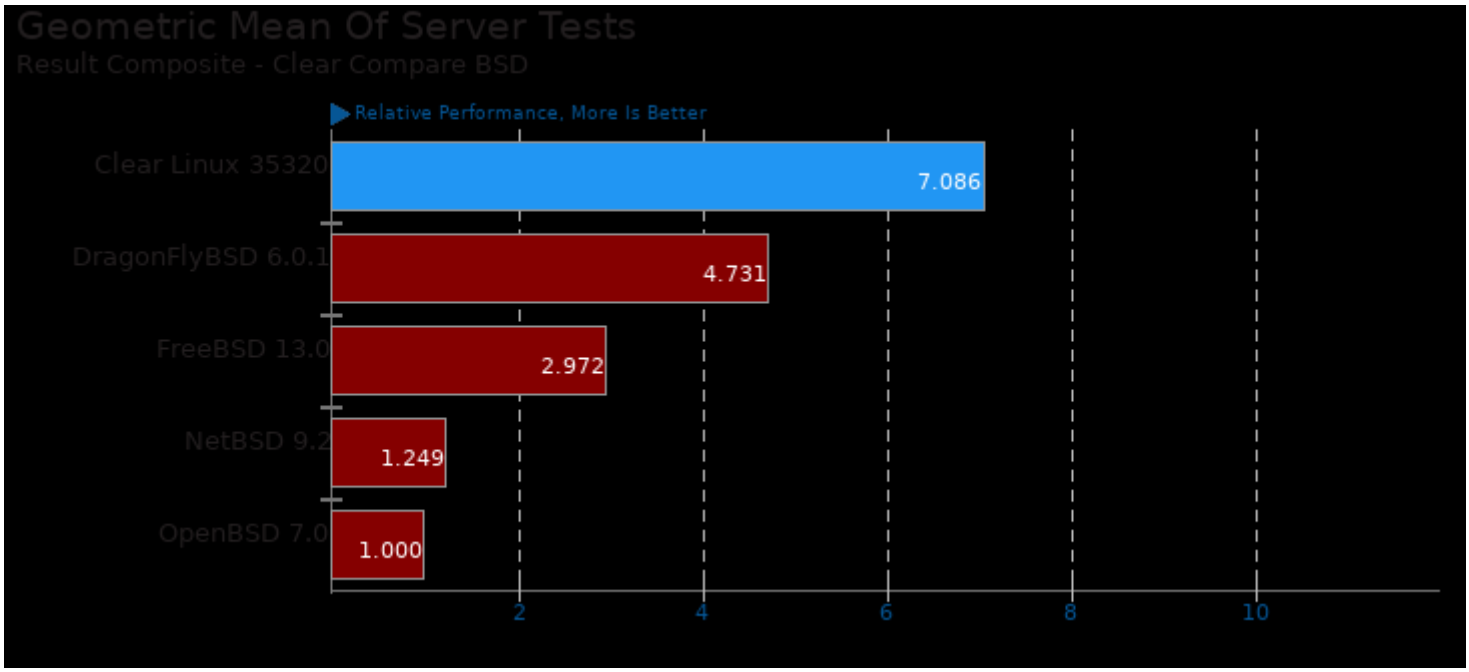



Geometric mean based upon tests: pts/sqlite-speedtest, pts/node-web-tooling, pts/git, pts/blosc, pts/compress-zstd, pts/pyperformance, pts/pybench, pts/build-apache, pts/build-php, pts/build-llvm, pts/build-ffmpeg, pts/build2, pts/build-nodejs and pts/mt-dgemm

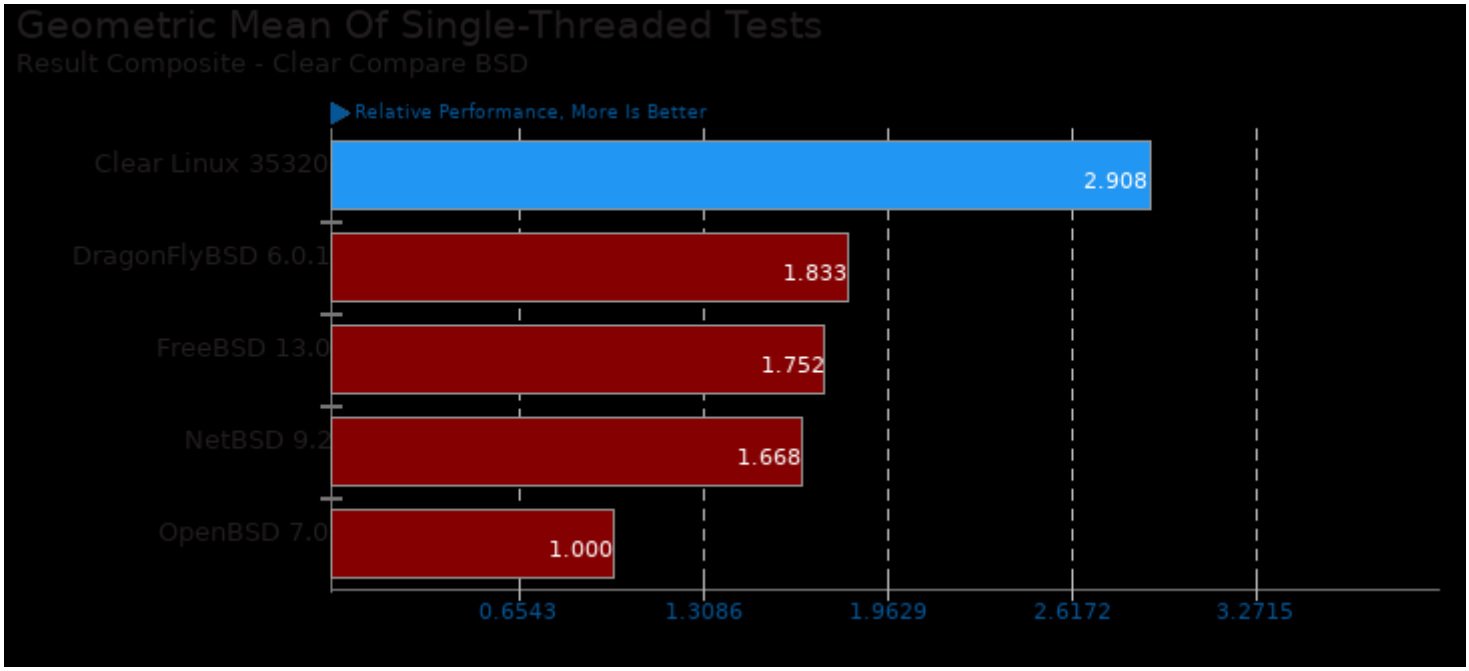



Geometric mean based upon tests: pts/pybench, pts/numpy and pts/pyperformance

# Clear Compare BSD

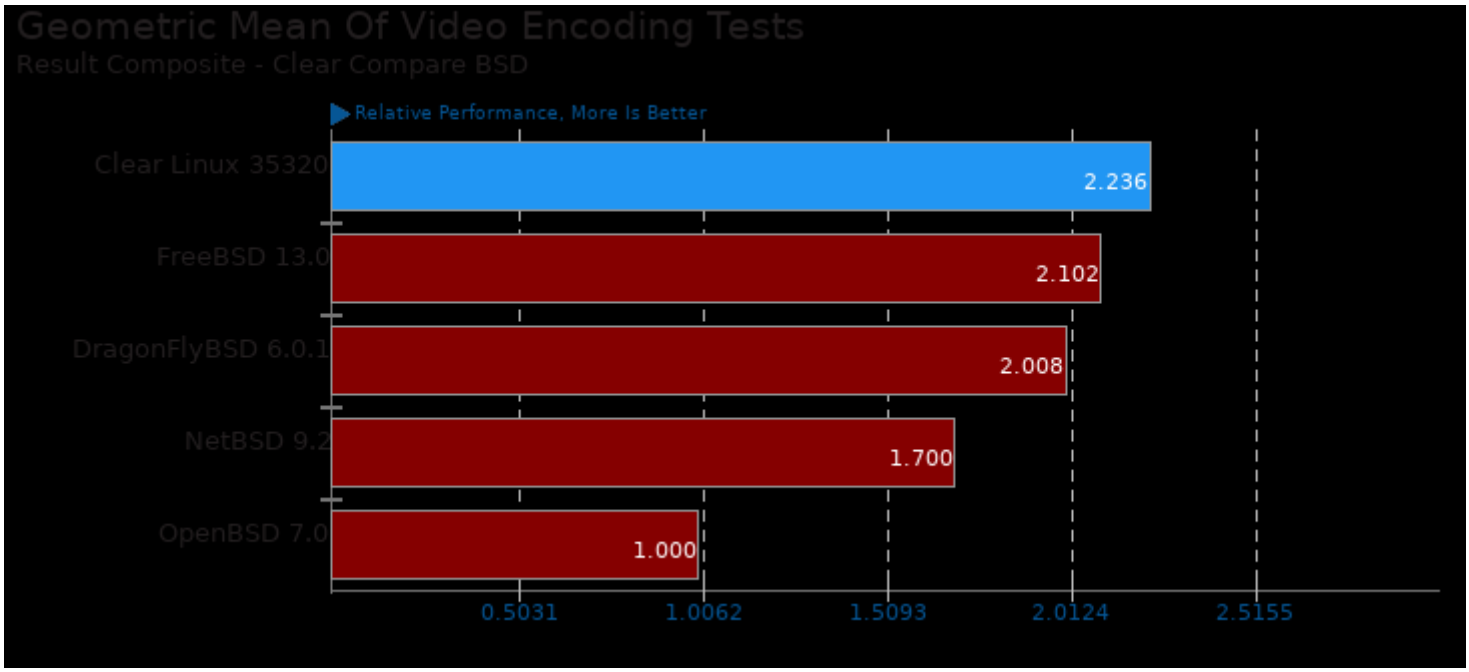



Geometric mean based upon tests: pts/apache, pts/nginx, pts/ebizzy, pts/phpbench, pts/node-express-loadtest, pts/openssl, pts/perl-benchmark, pts/node-web-tooling and pts/sqlite-speedtest

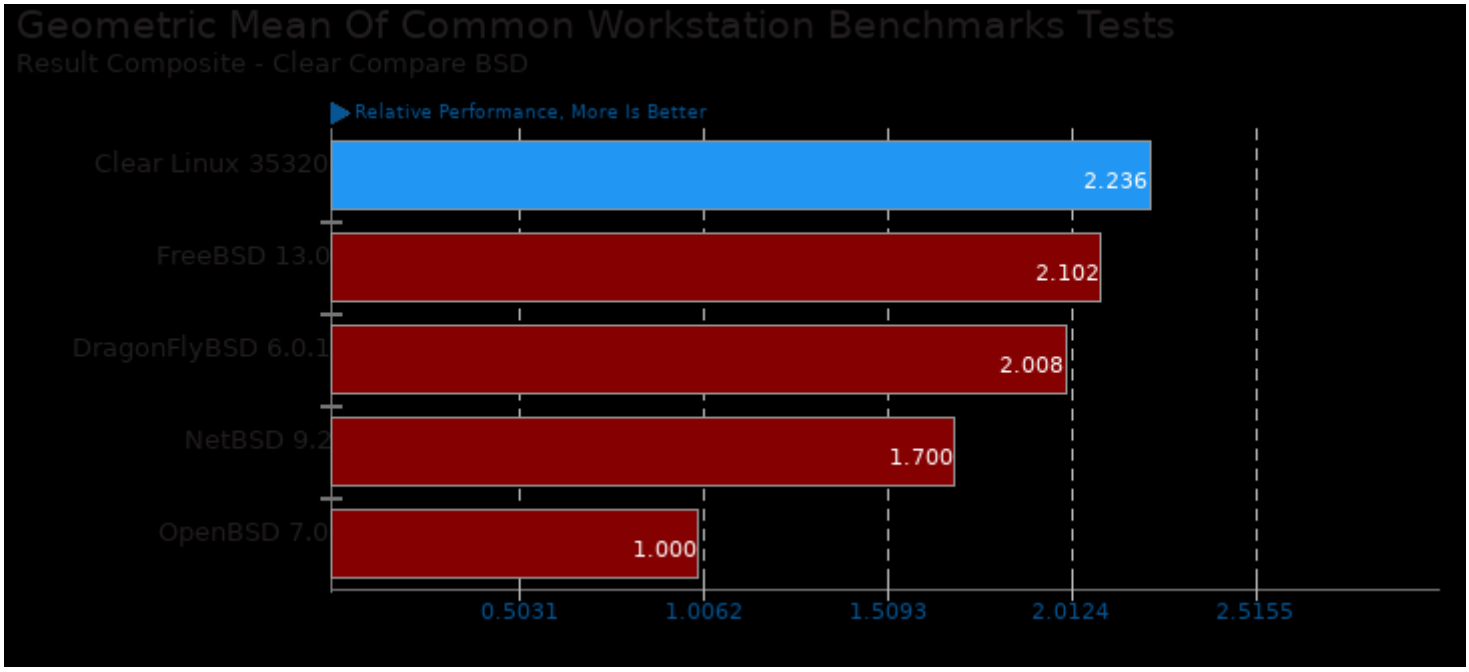



Geometric mean based upon tests: pts/lzbench, pts/blake2, pts/byte, pts/luajit, pts/node-express-loadtest, pts/numpy, pts/compress-gzip, pts/encode-flac, pts/encode-mp3, pts/perl-benchmark, pts/tjbench, pts/pybench, pts/phpbench, pts/nginx and pts/git

# Clear Compare BSD




Geometric mean based upon tests: pts/x264, pts/x265, pts/kvazaar, pts/vpxenc, pts/dav1d, pts/aom-av1 and pts/avifenc




Geometric mean based upon tests: pts/rodinia, pts/x265 and pts/git

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:05.*