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I5-11600k single tread test

Ryzen 9 5900x Single

Automated Executive Summary

11600k-single-test had the most wins, coming in first place for 70% of the tests.

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

R Benchmark at 3.571x
glibc bench (Benchmark: sqrt) at 2.088x
glibc bench (Benchmark: ffsll) at 2.066x
glibc bench (Benchmark: pthread_once) at 2.047x
glibc bench (Benchmark: ffs) at 2.026x
glibc bench (Benchmark: modf) at 1.832x
CppPerformanceBenchmarks (Test: Ctype) at 1.752x
nginx (Concurrent Requests: 20) at 1.611x
BenchmarkMutex (Benchmark: Semaphore Release And Acquire) at 1.578x
Multichase Pointer Chaser (Test: 4MB Array, 64 Byte Stride) at 1.47x.

Test Systems:

11600k-single-test

Processor: Intel Core i5-11600K @ 4.90GHz (6 Cores / 12 Threads), Motherboard: Gigabyte Z590 UD AC (F2 BIOS), Chipset: Intel Device 43ef, Memory: 2 x 8192 MB DDR4-3600MT/s, Disk: 2000GB CT2000MX500SSD1, Graphics: llvmpipe, Audio: Realtek ALC897, Network: Realtek RTL8125 2.5GbE + Intel Device 43f0

OS: Ubuntu 20.04, Kernel: 5.11.0-38-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA, OpenGL: 4.5 Mesa 21.0.3 (LLVM 12.0.0 256 bits), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: madvise
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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/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 performance - CPU Microcode: 0x40 - Thermald 1.9.1
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.20.04)
Python Notes: Python 3.8.10
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of 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

Ryzen 9 5900x Single Thread Test

ryzen 9 5900x Single Thread Test

Single

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS TUF GAMING B550-PLUS (WI-FI) (1202 BIOS), Chipset: AMD Starship/Matisse, Memory: 2 x 8192 MB DDR4-3600MT/s CRUCIAL, Disk: 500GB MQ01ABF050 + 480GB SanDisk SSD PLUS, Graphics: llvmpipe, Audio: NVIDIA GK208 HDMI/DP, Network: Realtek RTL8125 2.5GbE + Intel Wi-Fi 6 AX200

OS: Ubuntu 20.04, Kernel: 5.11.0-38-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, OpenGL: 4.5 Mesa 21.0.3 (LLVM 12.0.0 256 bits), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.20.04)
Python Notes: Python 3.8.10
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

I5-11600k single tread test

	11600k-single-test	Ryzen 9 5900x Single Thread	ryzen 9 5900x Single Thread	Single
PolyBench-C - C.C (sec)	2.622			
Standard Deviation	0.3%			
PolyBench-C - C.C (sec)	2.632			
Standard Deviation	4.1%			
PolyBench-C - 3.M.M (sec)	2.287			
Standard Deviation	0.1%			
Polyhedron Fortran Benchmarks - ac (sec)				5.97
Polyhedron Fortran Benchmarks - air (sec)				1.52
Polyhedron Fortran Benchmarks - mdbx (sec)				3.91
Polyhedron Fortran Benchmarks - doduc (sec)				6.02
Polyhedron Fortran Benchmarks - linpk (sec)				1.53
Polyhedron Fortran Benchmarks - tfft2 (sec)				12.72
Polyhedron Fortran Benchmarks - aermod (sec)				5.04
Polyhedron Fortran Benchmarks - rnflow (sec)				14.45
Polyhedron Fortran Benchmarks - induct2 (sec)				20.3
Polyhedron Fortran Benchmarks - protein (sec)				10.18
Polyhedron Fortran Benchmarks - capacita (sec)				11.26
Polyhedron Fortran Benchmarks - channel2 (sec)				30.51
Polyhedron Fortran Benchmarks - fatigue2 (sec)				44.94
Polyhedron Fortran Benchmarks - gas_dyn2 (sec)				21.53
Polyhedron Fortran Benchmarks - test_fpu2 (sec)				21.21
Polyhedron Fortran Benchmarks - mp_prop_design (sec)				51.66
lzbench - XZ 0 - Compression (MB/s)	55			48
Normalized	100%			87.27%
lzbench - XZ 0 - Decompression	151			151
Standard Deviation				5.2%
lzbench - Zstd 1 - Compression (MB/s)	668			629
Normalized	100%			94.16%
Standard Deviation	0.2%			2.5%
lzbench - Zstd 1 - Decompression	2282			2110
Normalized	100%			92.46%
Standard Deviation	1.7%			3.2%

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lzbench - Zstd 8 - Compression (MB/s)	**128**	**116**
Normalized	100%	90.63%
Standard Deviation		1%
lzbench - Zstd 8 - Decompression	**2543**	**2286**
Normalized	100%	89.89%
Standard Deviation	0.4%	0.1%
lzbench - Crush 0 - Compression	**148**	**144**
Normalized	100%	97.3%
lzbench - Crush 0 - Decompression (MB/s)	**587**	**570**
Normalized	100%	97.1%
Standard Deviation		2.2%
lzbench - Brotli 0 - Compression	**623**	**569**
Normalized	100%	91.33%
Standard Deviation		0.5%
lzbench - Brotli 0 - Decompression (MB/s)	**785**	**697**
Normalized	100%	88.79%
Standard Deviation	0.8%	0.2%
lzbench - Brotli 2 - Compression	**254**	**246**
Normalized	100%	96.85%
Standard Deviation		0.5%
lzbench - Brotli 2 - Decompression (MB/s)	**922**	**888**
Normalized	100%	96.31%
Standard Deviation	0.7%	0.2%
lzbench - Libdeflate 1 - Compression (MB/s)	**326**	**299**
Normalized	100%	91.72%
Standard Deviation		0.3%
lzbench - Libdeflate 1 - Decompression (MB/s)	**1420**	**1426**
Normalized	99.58%	100%
Standard Deviation	0.2%	0.6%
BLAKE2 (Cycles/Byte)	**5.20**	**7.68**
Normalized	100%	67.71%
Standard Deviation	6.1%	0.3%
GNU GMP GMPbench - Total Time (GMPbench Score)	**6620**	**6388**
Normalized	100%	96.5%
Java SciMark - Composite (Mflops)	**3028**	**3509**
Normalized	86.29%	100%
Standard Deviation	0.6%	3.2%
Java SciMark - Monte Carlo (Mflops)	**1208**	**1768**
Normalized	68.31%	100%
Standard Deviation	0.1%	5.3%
Java SciMark - F.F.T (Mflops)	**2186**	**2556**
Normalized	85.51%	100%
Standard Deviation	2%	2.4%
Java SciMark - S.M.M (Mflops)	**3000**	**2990**
Normalized	100%	99.67%
Standard Deviation	0.1%	2.6%
Java SciMark - D.L.M.F (Mflops)	**6638**	**7961**
Normalized	83.38%	100%

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Standard Deviation	0.7%	2.8%
Java SciMark - J.S.O.R (Mflops)	**2110**	**2189**
Normalized	96.36%	100%
Standard Deviation	0.1%	5.8%
Bork File Encrypter - F.E.T (sec)	**6.610**	**7.161**
Normalized	100%	92.31%
Standard Deviation	0.5%	2.4%
Fhourstones - C.C.4.S (Kpos / sec)	**17996**	**19414**
Normalized	92.7%	100%
Standard Deviation	0.4%	2.4%
BYTE Unix Benchmark - Dhrystone 2 (LPS)	**61969025**	**51225622**
Normalized	100%	82.66%
Standard Deviation	0.2%	1.2%
CacheBench - Read (MB/s)	**4115**	**2894**
Normalized	100%	70.32%
Standard Deviation	0%	0.3%
CacheBench - Write (MB/s)	**32773**	**33384**
Normalized	98.17%	100%
Standard Deviation	0%	0%
CacheBench - R.M.W (MB/s)	**50614**	**62323**
Normalized	81.21%	100%
Standard Deviation	0.1%	0.6%
LuaJIT - Composite (Mflops)	**1909**	**1784**
Normalized	100%	93.45%
Standard Deviation	0.8%	1.7%
LuaJIT - Monte Carlo (Mflops)	**639.21**	**537.65**
Normalized	100%	84.11%
Standard Deviation	0.1%	5.2%
LuaJIT - F.F.T (Mflops)	**668.76**	**470.43**
Normalized	100%	70.34%
Standard Deviation	1.2%	2.2%
LuaJIT - S.M.M (Mflops)	**1977**	**1529**
Normalized	100%	77.31%
Standard Deviation	0.3%	2.9%
LuaJIT - D.L.M.F (Mflops)	**4412**	**4130**
Normalized	100%	93.6%
Standard Deviation	1.9%	1.5%
LuaJIT - J.S.O.R (Mflops)	**1846**	**2251**
Normalized	81.99%	100%
Standard Deviation	0.1%	1.3%
SciMark - Composite (Mflops)	**920.31**	**844.39**
Normalized	100%	91.75%
Standard Deviation	1.9%	0%
SciMark - Monte Carlo (Mflops)	**192.49**	**184.35**
Normalized	100%	95.77%
Standard Deviation	4.2%	0.3%
SciMark - F.F.T (Mflops)	**377.77**	**513.79**
Normalized	73.53%	100%
Standard Deviation	0.2%	0.4%
SciMark - S.M.M (Mflops)	**1092**	**815.01**
Normalized	100%	74.66%
Standard Deviation	7.1%	0%
SciMark - D.L.M.F (Mflops)	**1549**	**1407**
Normalized	100%	90.82%

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Standard Deviation	0.1%	0.2%
SciMark - J.S.O.R (Mflops)	1390	1302
Normalized	100%	93.63%
Standard Deviation	0.1%	0%
Botan - KASUMI (MiB/s)	113.193	97.656
Normalized	100%	86.27%
Standard Deviation	0.2%	4.2%
Botan - KASUMI - Decrypt (MiB/s)	108.871	96.558
Normalized	100%	88.69%
Standard Deviation	0%	4.9%
Botan - AES-256 (MiB/s)	8158	6996
Normalized	100%	85.76%
Standard Deviation	0.1%	0.1%
Botan - AES-256 - Decrypt (MiB/s)	8134	6976
Normalized	100%	85.77%
Standard Deviation	0%	0.1%
Botan - Twofish (MiB/s)	437.368	434.735
Normalized	100%	99.4%
Standard Deviation	0.2%	1%
Botan - Twofish - Decrypt (MiB/s)	437.405	425.779
Normalized	100%	97.34%
Standard Deviation	0.1%	0.9%
Botan - Blowfish (MiB/s)	557.378	505.352
Normalized	100%	90.67%
Standard Deviation	0%	2.1%
Botan - Blowfish - Decrypt (MiB/s)	555.485	508.211
Normalized	100%	91.49%
Standard Deviation	0.1%	1.7%
Botan - CAST-256 (MiB/s)	169.398	171.925
Normalized	98.53%	100%
Standard Deviation	0%	2.4%
Botan - CAST-256 - Decrypt (MiB/s)	169.302	171.839
Normalized	98.52%	100%
Standard Deviation	0.1%	2.6%
Botan - ChaCha20Poly1305 (MiB/s)	1000	814.388
Normalized	100%	81.42%
Standard Deviation	0.2%	0%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s)	999.602	804.118
Normalized	100%	80.44%
Standard Deviation	0.2%	0.1%
Node.js Express HTTP Load Test (Reqs/sec)	14253	13523
Normalized	100%	94.88%
Standard Deviation	0.6%	2.1%
Swet - Average (Operations/sec)	1026508832	988736313
Normalized	100%	96.32%
Standard Deviation	0.6%	0.4%
Node.js Octane Benchmark (Score)	68936	65806
Normalized	100%	95.46%
Standard Deviation	0.3%	2.5%
Numpy Benchmark (Score)	479.94	541.17
Normalized	88.69%	100%
Standard Deviation	0.4%	0.1%
Gzip Compression - L.S.T.A.T.t.g (sec)	26.328	31.303

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Normalized	100%	84.11%
Standard Deviation	0.4%	1.1%
dcraw - R.T.P.I.C (sec)	**30.599**	**36.315**
Normalized	100%	84.26%
Standard Deviation	0.8%	0.4%
FLAC Audio Encoding - WAV To FLAC (sec)	**13.711**	**13.611**
Normalized	99.27%	100%
Standard Deviation	0.5%	1.2%
LAME MP3 Encoding - WAV To MP3 (sec)	**6.280**	**6.357**
Normalized	100%	98.79%
Standard Deviation	0.1%	2.4%
Ogg Audio Encoding - WAV To Ogg (sec)	15.535	
Standard Deviation	0.2%	
eSpeak-NG Speech Engine - T.T.S.S (sec)	**26.303**	**25.405**
Normalized	96.59%	100%
Standard Deviation	3.4%	4.3%
Minion - Graceful (sec)	**36.673114**	**36.907581**
Normalized	100%	99.36%
Standard Deviation	0.5%	0.2%
Minion - Solitaire (sec)	**49.942104**	**59.117365**
Normalized	100%	84.48%
Standard Deviation	1.5%	1.1%
Minion - Quasigroup (sec)	**87.747874**	**93.165571**
Normalized	100%	94.18%
Standard Deviation	0.1%	2.2%
Perl Benchmarks - Pod2html (sec)	**0.08129076**	**0.10406131**
Normalized	100%	78.12%
Standard Deviation	0.3%	2.3%
Perl Benchmarks - Interpreter (sec)	**0.00062498**	**0.00065817**
Normalized	100%	94.96%
Standard Deviation	0.4%	0.6%
Radiance Benchmark - Serial (sec)	**469.329**	**467.005**
Normalized	99.5%	100%
R Benchmark (sec)	**0.1555**	**0.5553**
Normalized	100%	28%
Standard Deviation	1%	0.9%
Sudokut - Total Time (sec)	**7.794**	**8.727**
Normalized	100%	89.31%
Standard Deviation	0.1%	1%
glibc bench - cos (nanoseconds)	**37.6921**	**41.1676**
Normalized	100%	91.56%
Standard Deviation	0.5%	0.5%
glibc bench - exp (nanoseconds)	**4.07427**	**5.37977**
Normalized	100%	75.73%
Standard Deviation	0%	0%
glibc bench - ffs (nanoseconds)	**1.34898**	**2.73360**
Normalized	100%	49.35%
Standard Deviation	0%	1.8%
glibc bench - sin (nanoseconds)	**36.9815**	**42.3975**
Normalized	100%	87.23%
Standard Deviation	0%	3.7%

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glibc bench - log2 (nanoseconds)	**5.52734**	**5.30981**
Normalized	96.06%	100%
Standard Deviation	0.1%	0.3%
glibc bench - modf (nanoseconds)	**1.37809**	**2.52430**
Normalized	100%	54.59%
Standard Deviation	0.1%	3.6%
glibc bench - sinh (nanoseconds)	**5.93475**	**7.47185**
Normalized	100%	79.43%
Standard Deviation	0.1%	0.8%
glibc bench - sqrt (nanoseconds)	**1.34890**	**2.81592**
Normalized	100%	47.9%
Standard Deviation	0%	0.4%
glibc bench - tanh (nanoseconds)	**8.17424**	**9.08496**
Normalized	100%	89.98%
Standard Deviation	0.1%	0%
glibc bench - asinh (nanoseconds)	**6.61989**	**6.76972**
Normalized	100%	97.79%
Standard Deviation	0.3%	0.1%
glibc bench - atanh (nanoseconds)	**8.90594**	**9.23095**
Normalized	100%	96.48%
Standard Deviation	0.5%	2.7%
glibc bench - ffsll (nanoseconds)	**1.14402**	**2.36344**
Normalized	100%	48.4%
Standard Deviation	0.2%	0.3%
glibc bench - sincos (nanoseconds)	**10.09685**	**11.1047**
Normalized	100%	90.92%
Standard Deviation	2.3%	2.5%
glibc bench - pthread_once (nanoseconds)	**1.14343**	**2.34043**
Normalized	100%	48.86%
Standard Deviation	0.1%	0.9%
Multichase Pointer Chaser - 4.A.6.B.S (ns)	**5.970**	**8.777**
Normalized	100%	68.02%
Standard Deviation	0.1%	0%
Multichase Pointer Chaser - 1.A.2.B.S (ns)	**47.736**	**68.258**
Normalized	100%	69.93%
Standard Deviation	0.2%	0.5%
Multichase Pointer Chaser - 2.A.2.B.S (ns)	**47.492**	**49.165**
Normalized	100%	96.6%
Standard Deviation	0.1%	2.2%
Multichase Pointer Chaser - 1.A.2.B.S.2.T (ns)	**48.830**	**69.262**
Normalized	100%	70.5%
Standard Deviation	0.1%	0.2%
Multichase Pointer Chaser - 1.A.2.B.S.4.T (ns)	**51.855**	**70.398**
Normalized	100%	73.66%
Standard Deviation	0.1%	0.5%
libjpeg-turbo tjbench - D.T (Megapixels/sec)	**242.719823**	**265.826805**
Normalized	91.31%	100%

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Standard Deviation	0.4%	0.2%
CppPerformanceBenchmarks - Atol	36.484	37.716
Normalized	100%	96.73%
Standard Deviation	1%	0.2%
CppPerformanceBenchmarks - Ctype (sec)	22.707	39.790
Normalized	100%	57.07%
Standard Deviation	0.3%	0.3%
CppPerformanceBenchmarks - Math Library (sec)	214.925	256.752
Normalized	100%	83.71%
Standard Deviation	0.5%	0.2%
CppPerformanceBenchmarks - Rand Numbers (sec)	905.666	1006
Normalized	100%	90.04%
Standard Deviation	0%	0.7%
CppPerformanceBenchmarks - Stepanov Vector (sec)	68.143	48.134
Normalized	70.64%	100%
Standard Deviation	0.1%	0%
CppPerformanceBenchmarks - Function Objects (sec)	11.756	13.713
Normalized	100%	85.73%
Standard Deviation	0.1%	0.5%
CppPerformanceBenchmarks - S.A	26.955	21.404
Normalized	79.41%	100%
Standard Deviation	0.1%	0.1%
Inkscape - SVG Files To PNG (sec)	16.894	16.394
Normalized	97.04%	100%
Standard Deviation	0.7%	1%
BenchmarkMutex - S.M.L.S (ns)	16.5	16.5
Standard Deviation	0.3%	2.2%
BenchmarkMutex - M.L.U.s (ns)	30.1	37.3
Normalized	100%	80.7%
Standard Deviation	0.5%	0.9%
BenchmarkMutex - M.L.U.s.m (ns)	14.8	15.5
Normalized	100%	95.48%
Standard Deviation	1.8%	0.6%
BenchmarkMutex - M.L.U.s.m (ns)	19.3	15.5
Normalized	80.31%	100%
Standard Deviation	0.5%	2.4%
BenchmarkMutex - S.R.A.A (ns)	14.9	9.44
Normalized	63.36%	100%
Standard Deviation	0.4%	0.4%
BenchmarkMutex - M.L.U.s (ns)	32.0	40.2
Normalized	100%	79.6%
Standard Deviation	0.5%	0.4%
BenchmarkMutex - M.L.U.p (ns)	13.0	8.98
Normalized	69.08%	100%
Standard Deviation	1.8%	2.3%
BenchmarkMutex - M.L.U.t (ns)	22.9	23.8
Normalized	100%	96.22%
Standard Deviation	0.9%	0.5%
Redis - LPOP (Reqs/sec)	3867993	3147249

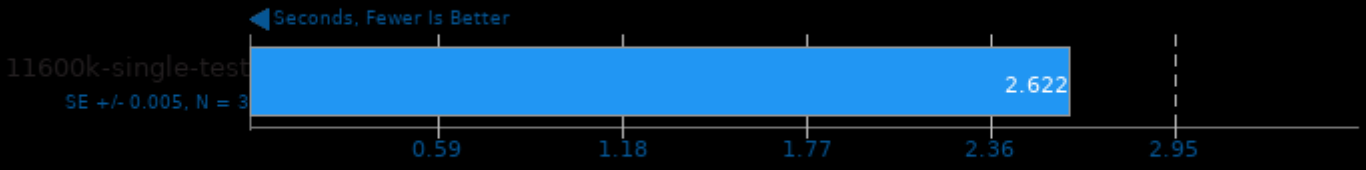
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Normalized	100%	81.37%
Standard Deviation	0.2%	2.1%
Redis - SADD (Reqs/sec)	**3055859**	**2480114**
Normalized	100%	81.16%
Standard Deviation	1.6%	5.4%
Redis - LPUSH (Reqs/sec)	**2309671**	**1880163**
Normalized	100%	81.4%
Standard Deviation	1%	4.2%
Redis - GET (Reqs/sec)	**3548120**	**2850846**
Normalized	100%	80.35%
Standard Deviation	2.2%	4.6%
Redis - SET (Reqs/sec)	**2712382**	**2184091**
Normalized	100%	80.52%
Standard Deviation	2.5%	4.5%
Optcarrot - O.B (FPS)	**192.74**	**151.10**
Normalized	100%	78.4%
Standard Deviation	0.9%	2.4%
PyBench - T.F.A.T.T (Milliseconds)	**665**	**802**
Normalized	100%	82.92%
Standard Deviation	0.7%	0.2%
Hierarchical INTegration - FLOAT (QUIPs)	**611110941**	**459291403**
Normalized	100%	75.16%
Standard Deviation	1.4%	0.1%
nginx - 1 (Reqs/sec)	**118031**	**102976**
Normalized	100%	87.24%
Standard Deviation	0.2%	0.1%
nginx - 20 (Reqs/sec)	**534246**	**331667**
Normalized	100%	62.08%
Standard Deviation	0.3%	0.4%
nginx - 100 (Reqs/sec)	**514092**	**352871**
Normalized	100%	68.64%
Standard Deviation	0.5%	0.4%
nginx - 200 (Reqs/sec)	**506632**	**349889**
Normalized	100%	69.06%
Standard Deviation	0.2%	0.2%
nginx - 500 (Reqs/sec)	**485278**	**341237**
Normalized	100%	70.32%
Standard Deviation	0.3%	0.3%
nginx - 1000 (Reqs/sec)	**457584**	**330983**
Normalized	100%	72.33%
Standard Deviation	0.2%	0.3%
PHPBench - P.B.S (Score)	**1070084**	**818814**
Normalized	100%	76.52%
Standard Deviation	0.3%	1%
Git - T.T.C.C.G.C (sec)	**41.720**	**41.140**
Normalized	98.61%	100%
Standard Deviation	0.1%	0.8%
GnuPG - 2.7.S.F.E (sec)	**53.571**	**59.379**
Normalized	100%	90.22%
Standard Deviation	0.9%	3.9%
Tesseract OCR - T.T.O.7.I (sec)	**17.872**	**20.445**
Normalized	100%	87.42%
Standard Deviation	0.2%	0.2%

I5-11600k single tread test

PolyBench-C 4.2

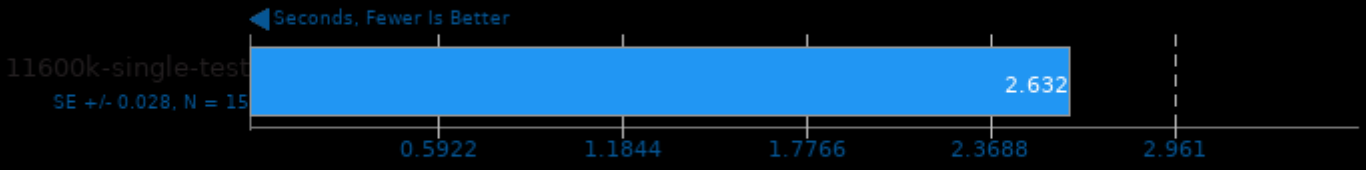
Test: Covariance Computation



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

PolyBench-C 4.2

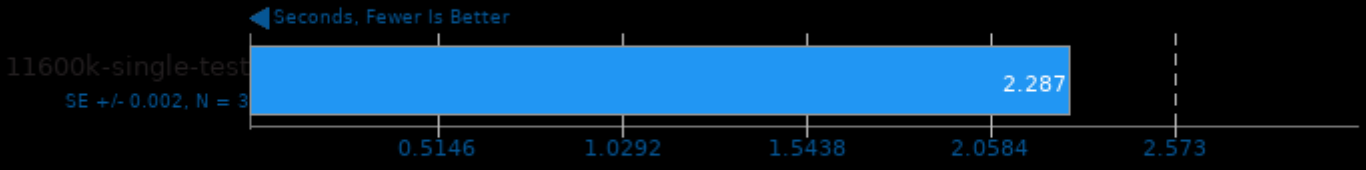
Test: Correlation Computation



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

PolyBench-C 4.2

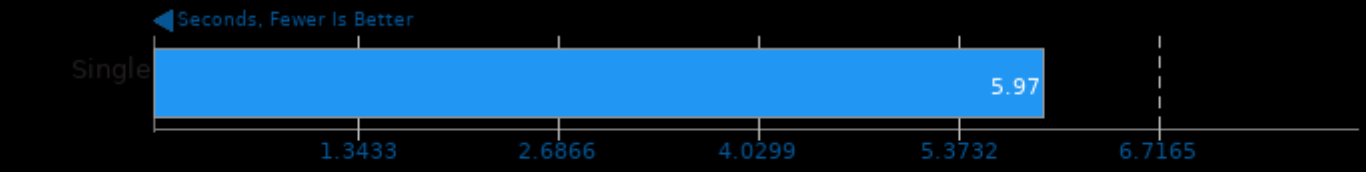
Test: 3 Matrix Multiplications



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

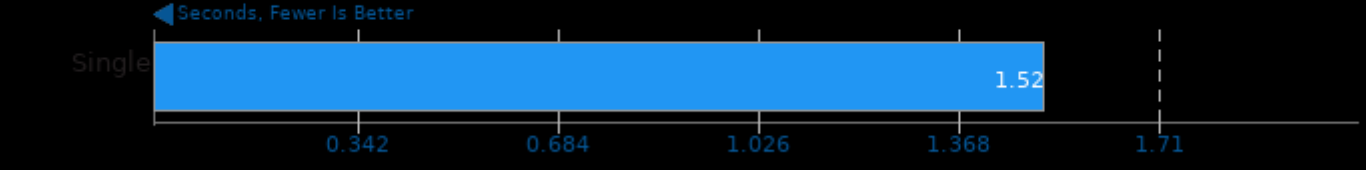
Polyhedron Fortran Benchmarks

Benchmark: ac

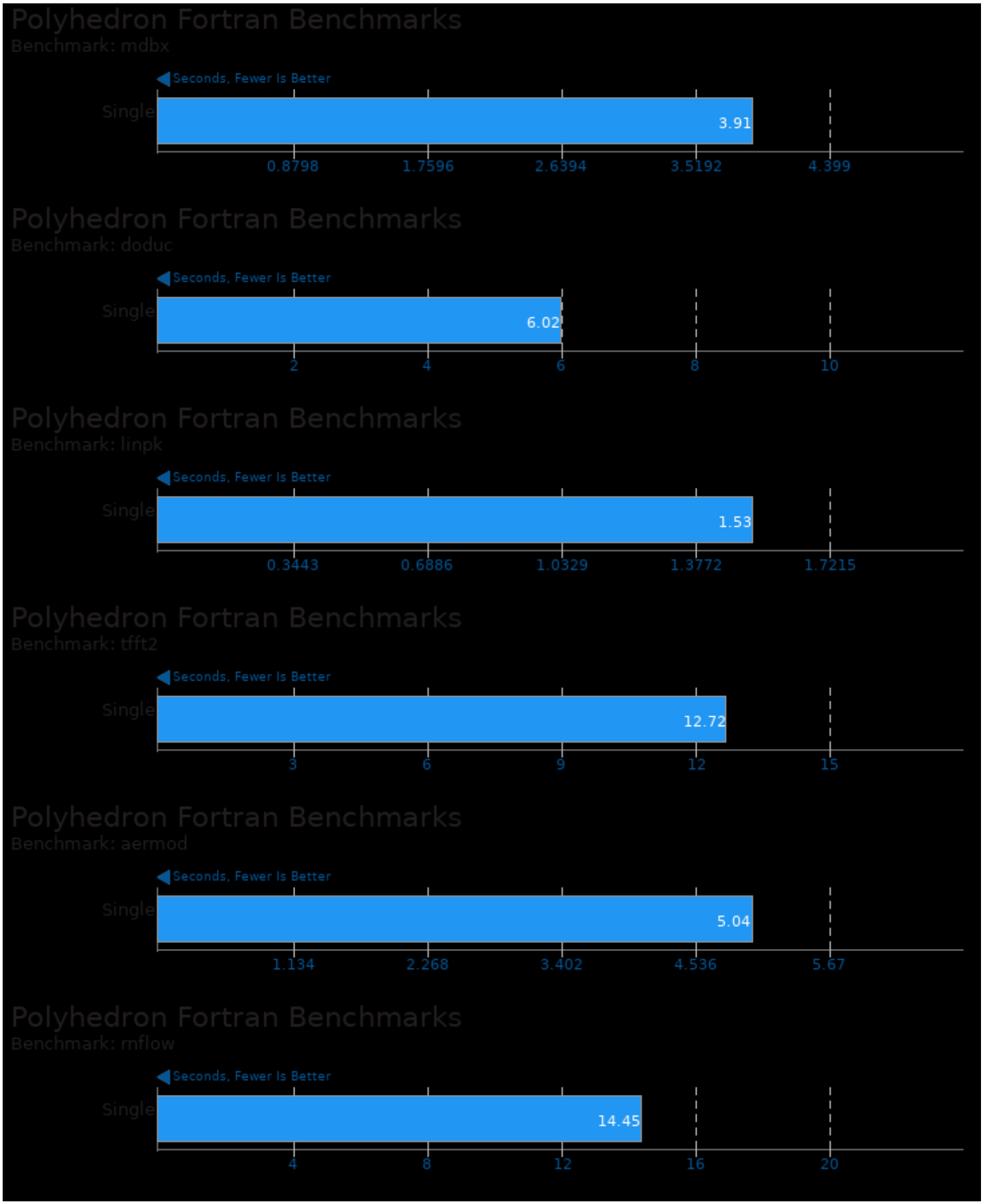


Polyhedron Fortran Benchmarks

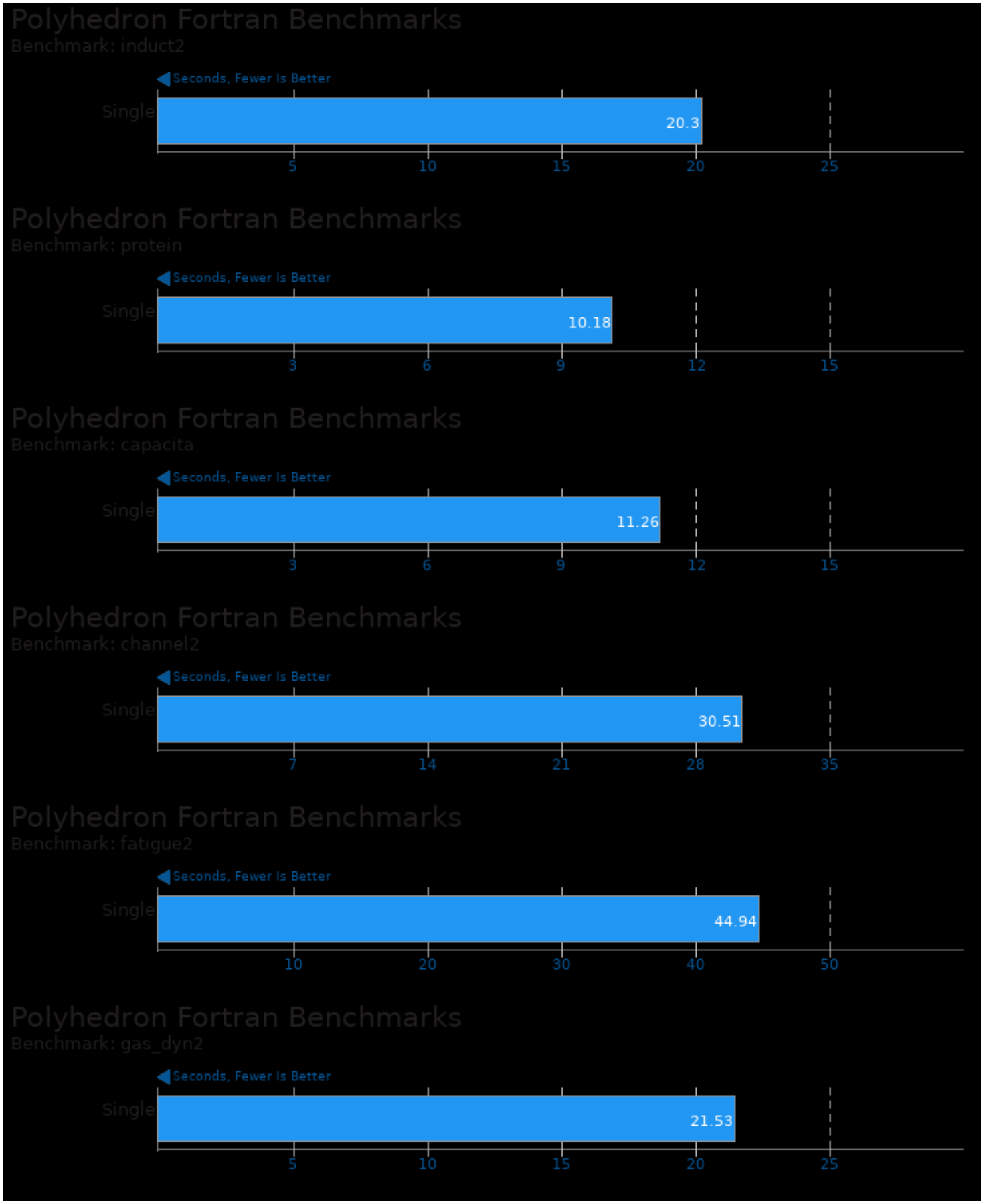
Benchmark: air



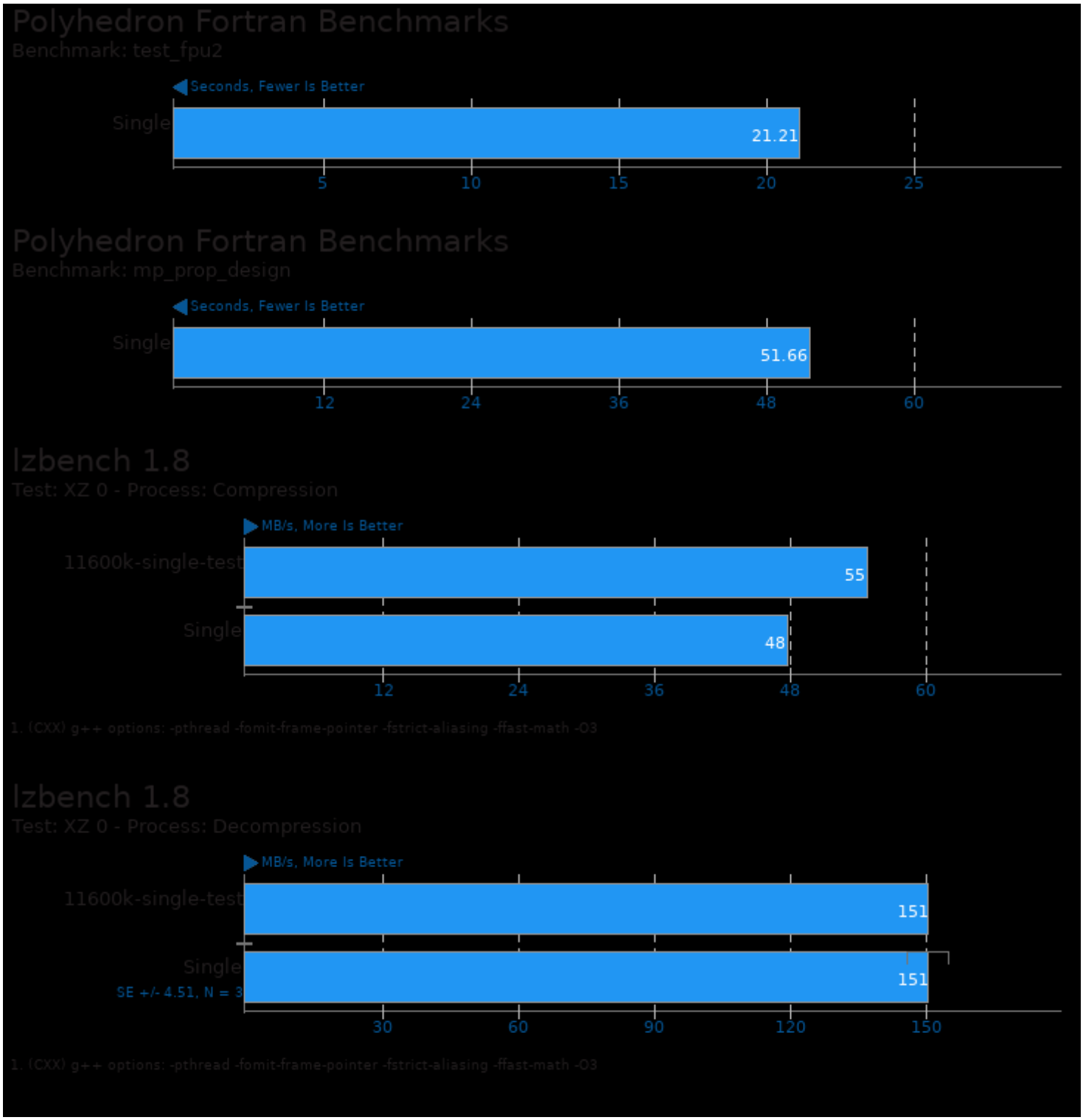
I5-11600k single tread test



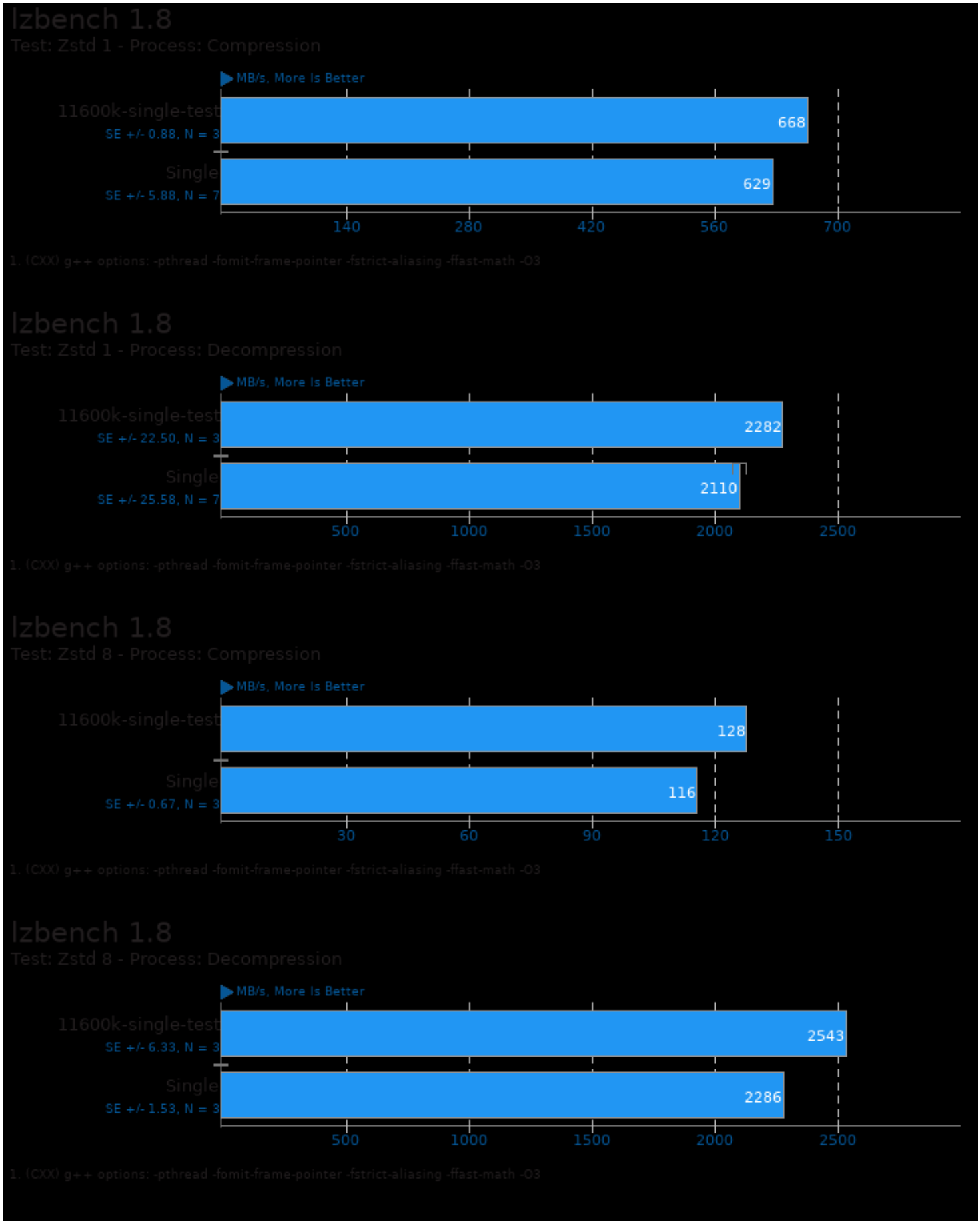
I5-11600k single tread test



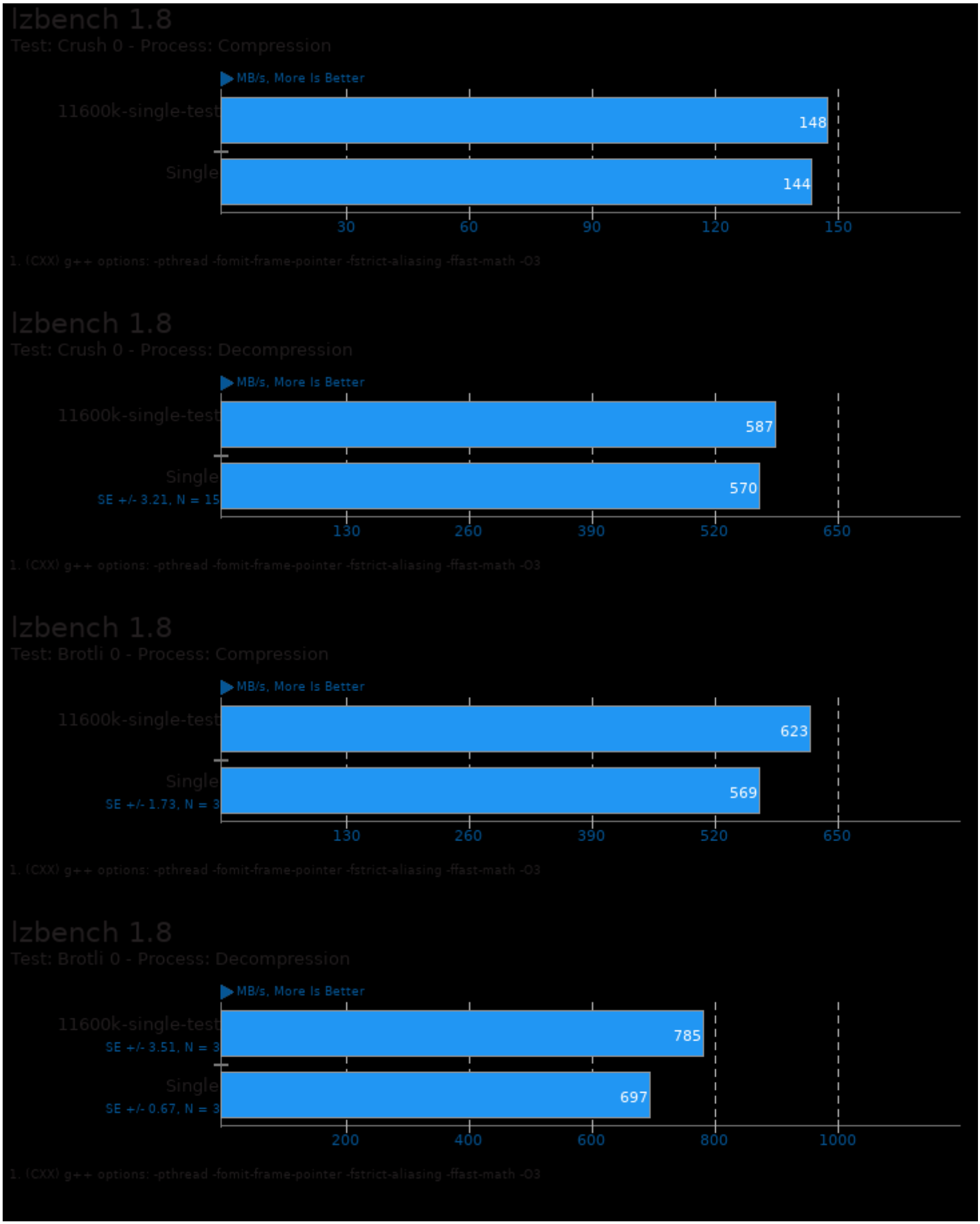
I5-11600k single tread test



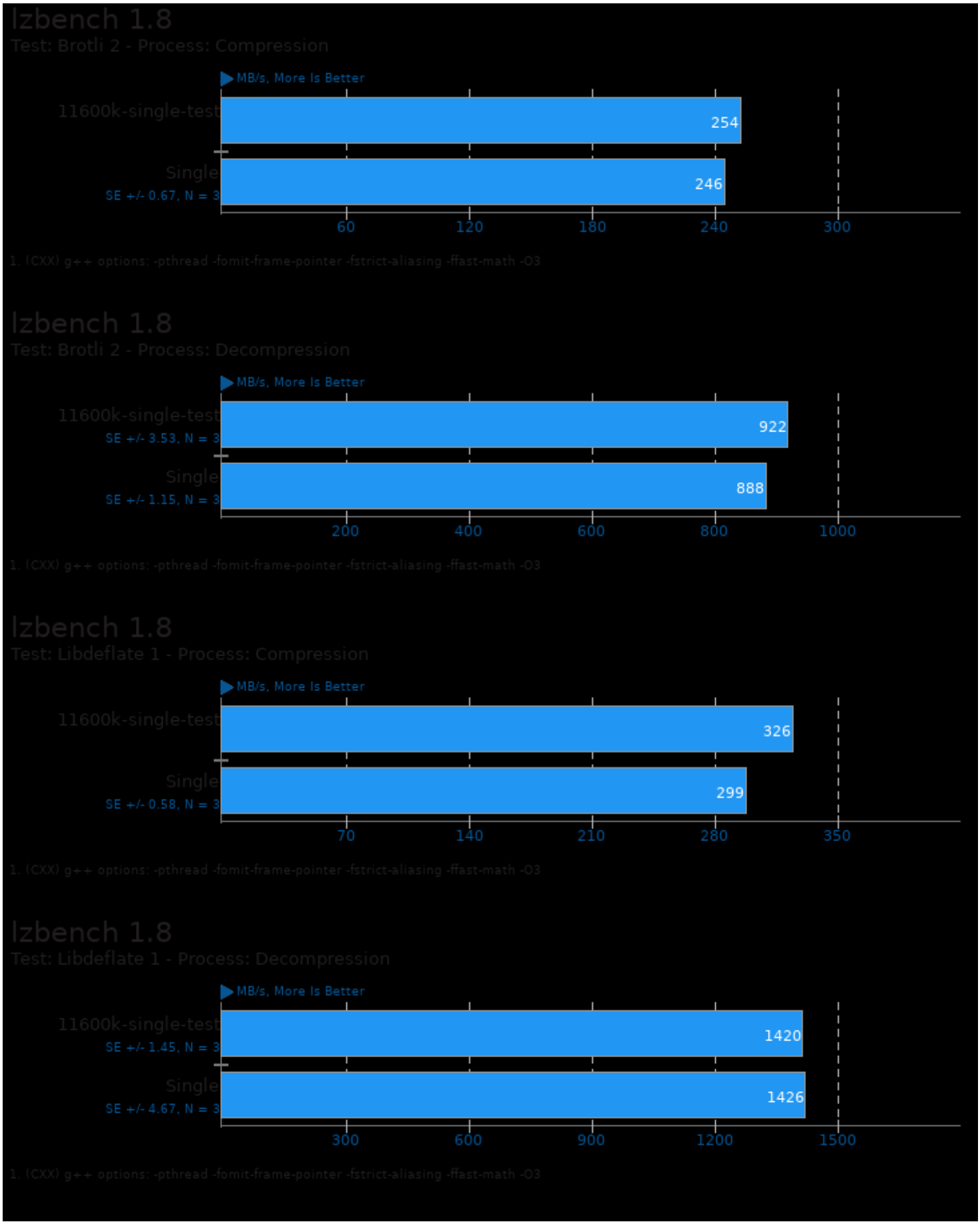
I5-11600k single tread test



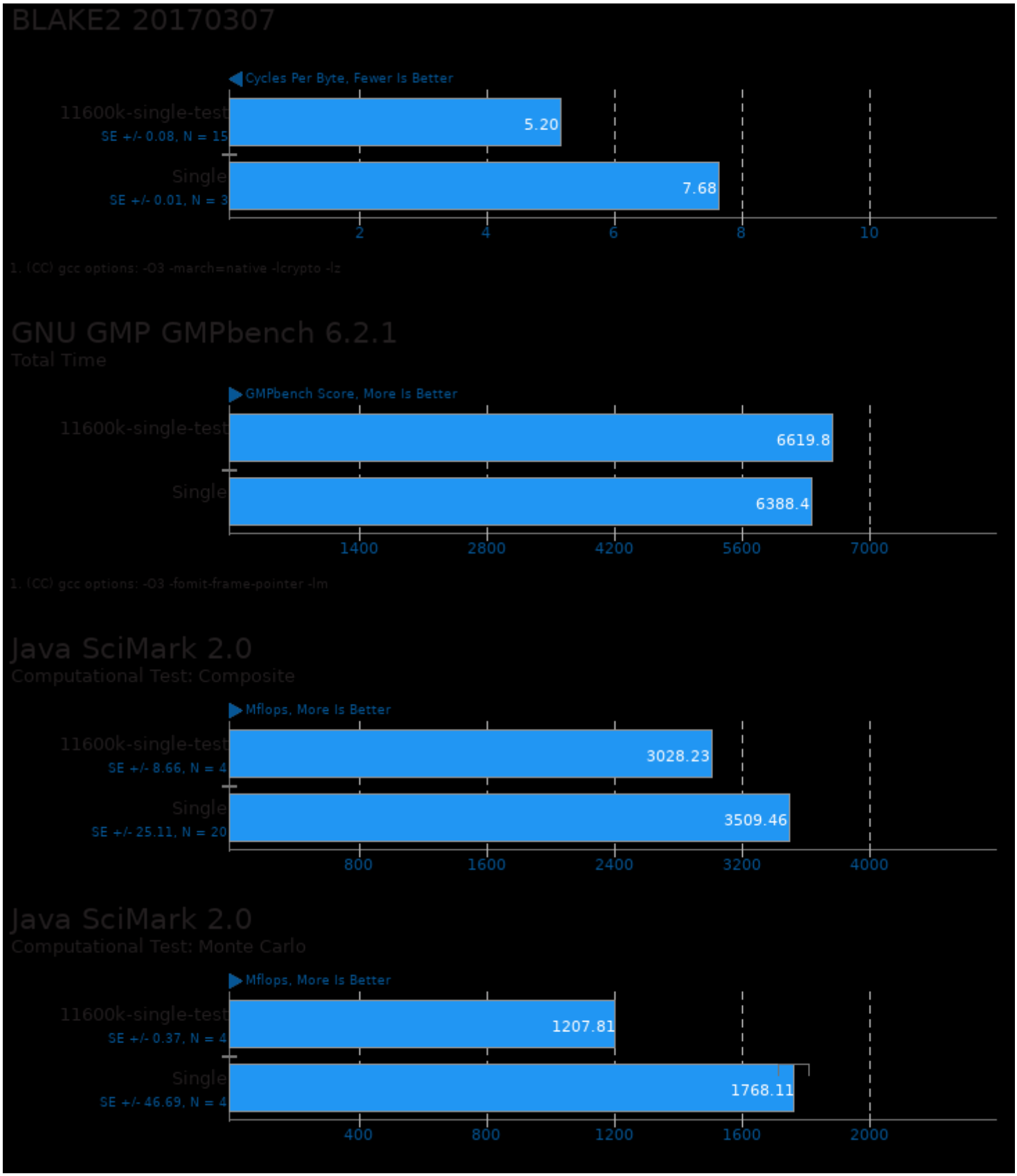
I5-11600k single tread test



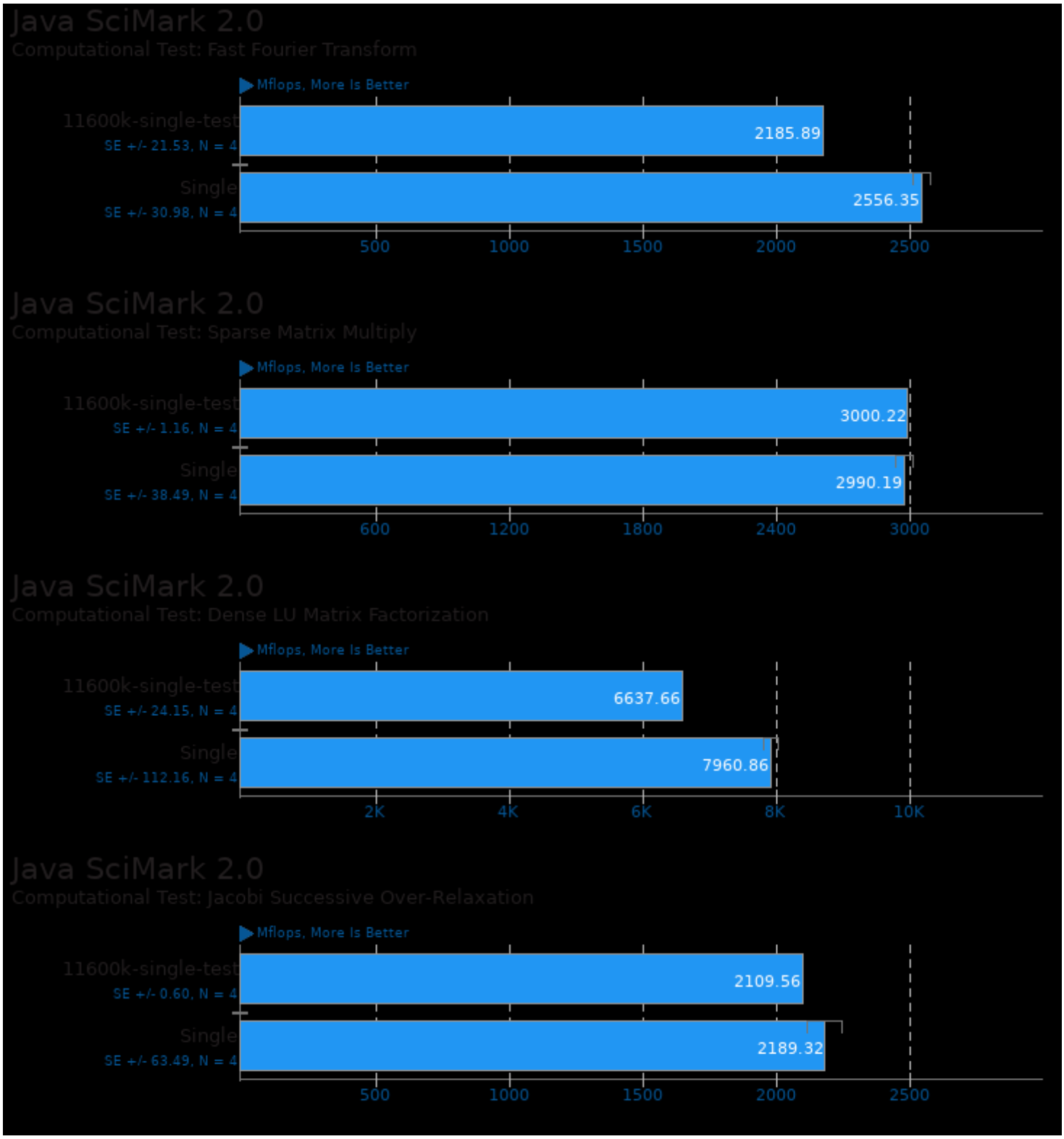
I5-11600k single tread test



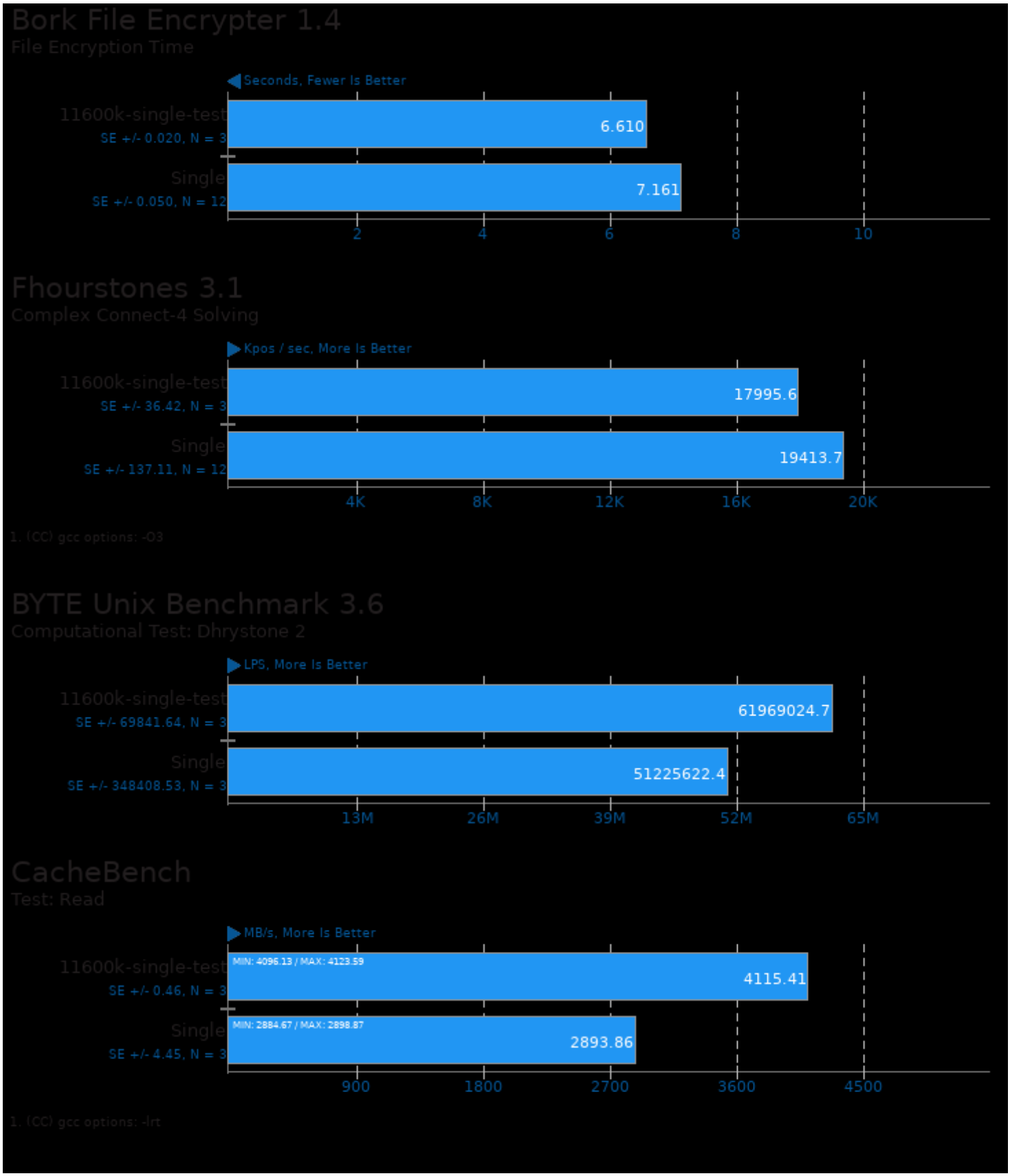
I5-11600k single tread test



I5-11600k single tread test



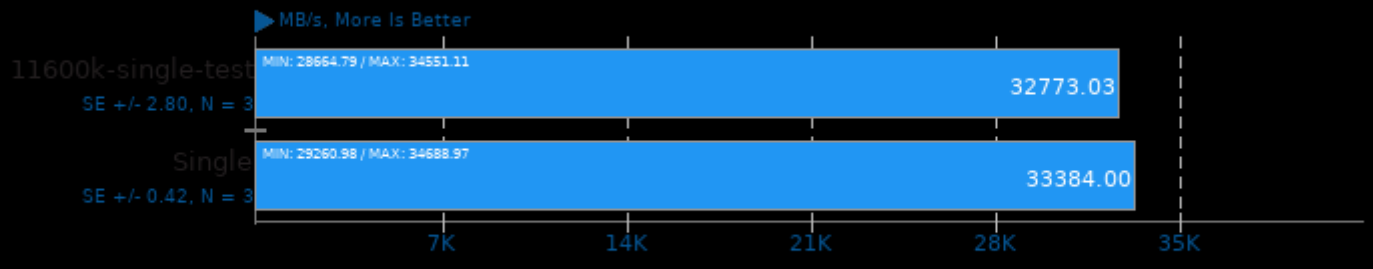
I5-11600k single tread test



I5-11600k single tread test

CacheBench

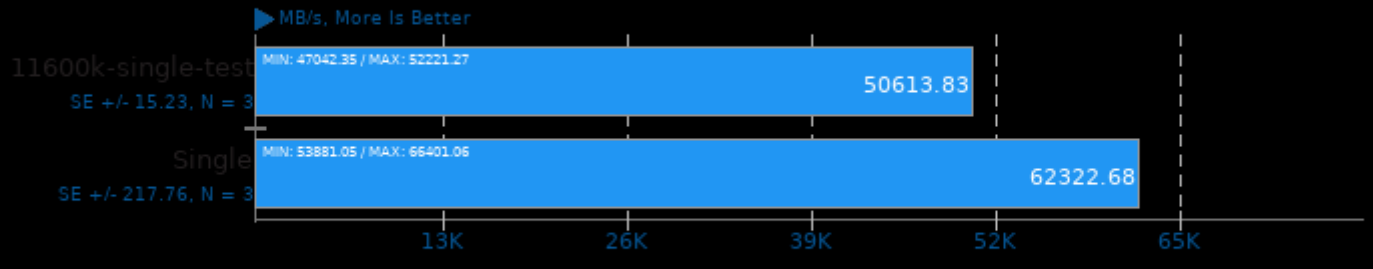
Test: Write



1. (CC) gcc options: -lrt

CacheBench

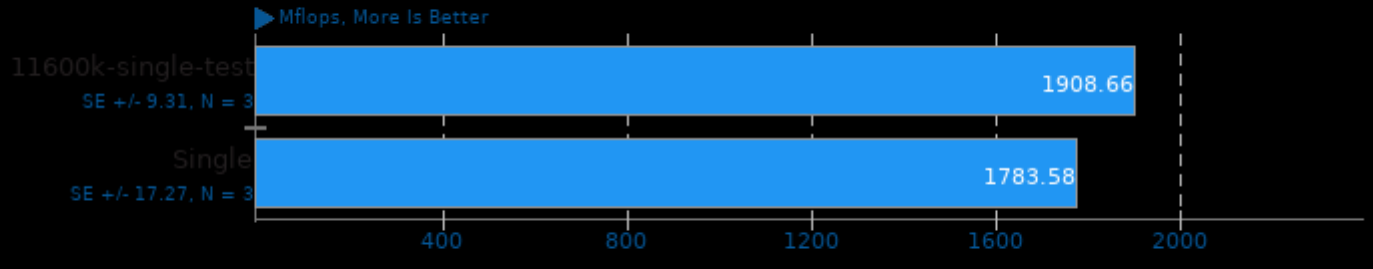
Test: Read / Modify / Write



1. (CC) gcc options: -lrt

LuaJIT 2.1-git

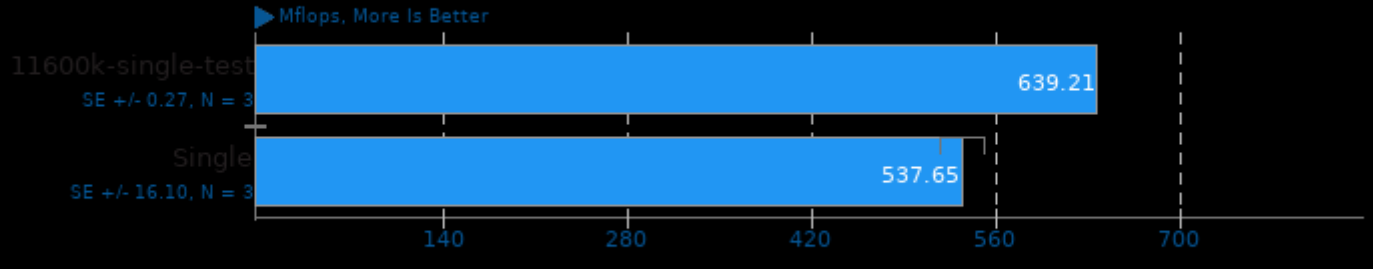
Test: Composite



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

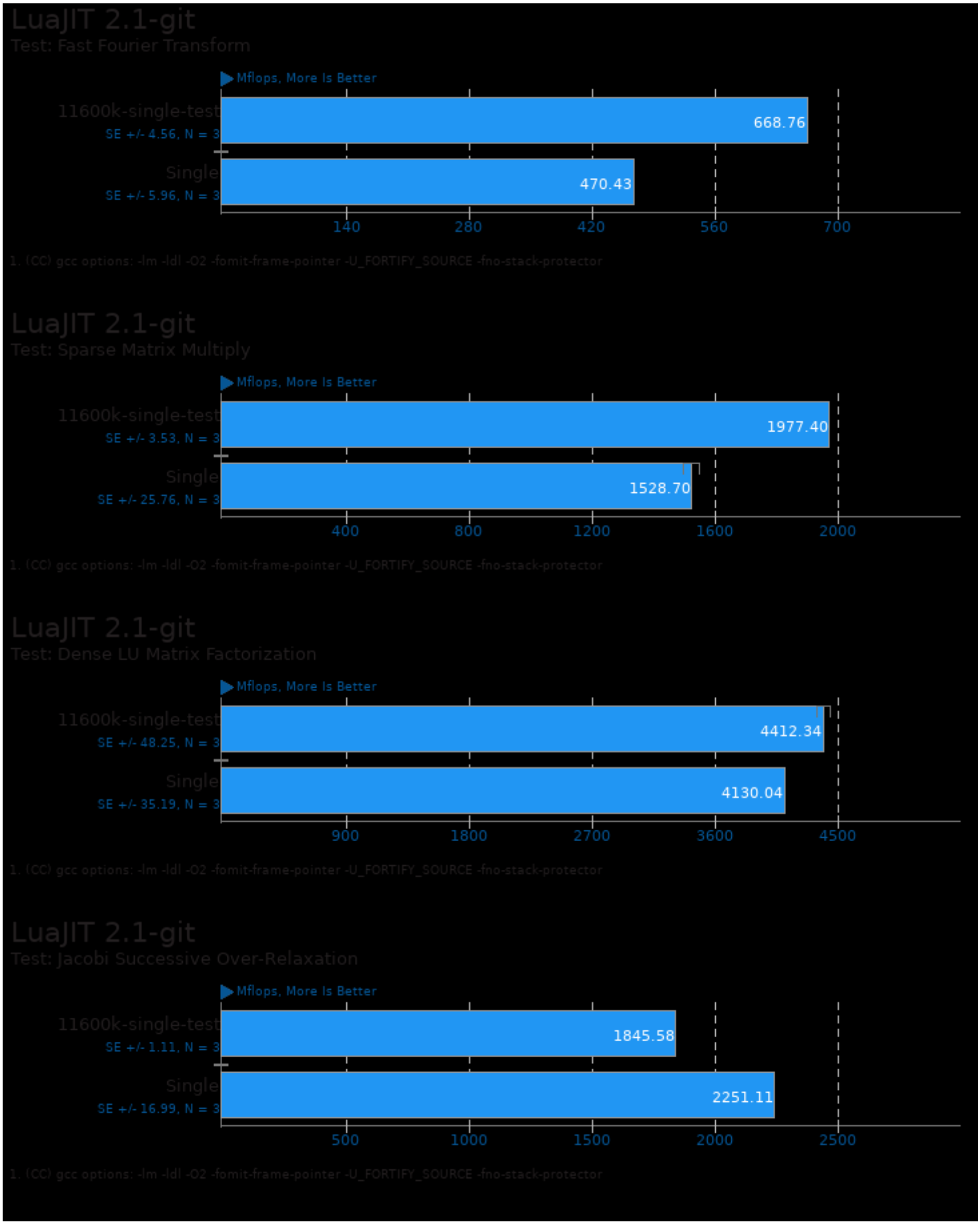
LuaJIT 2.1-git

Test: Monte Carlo

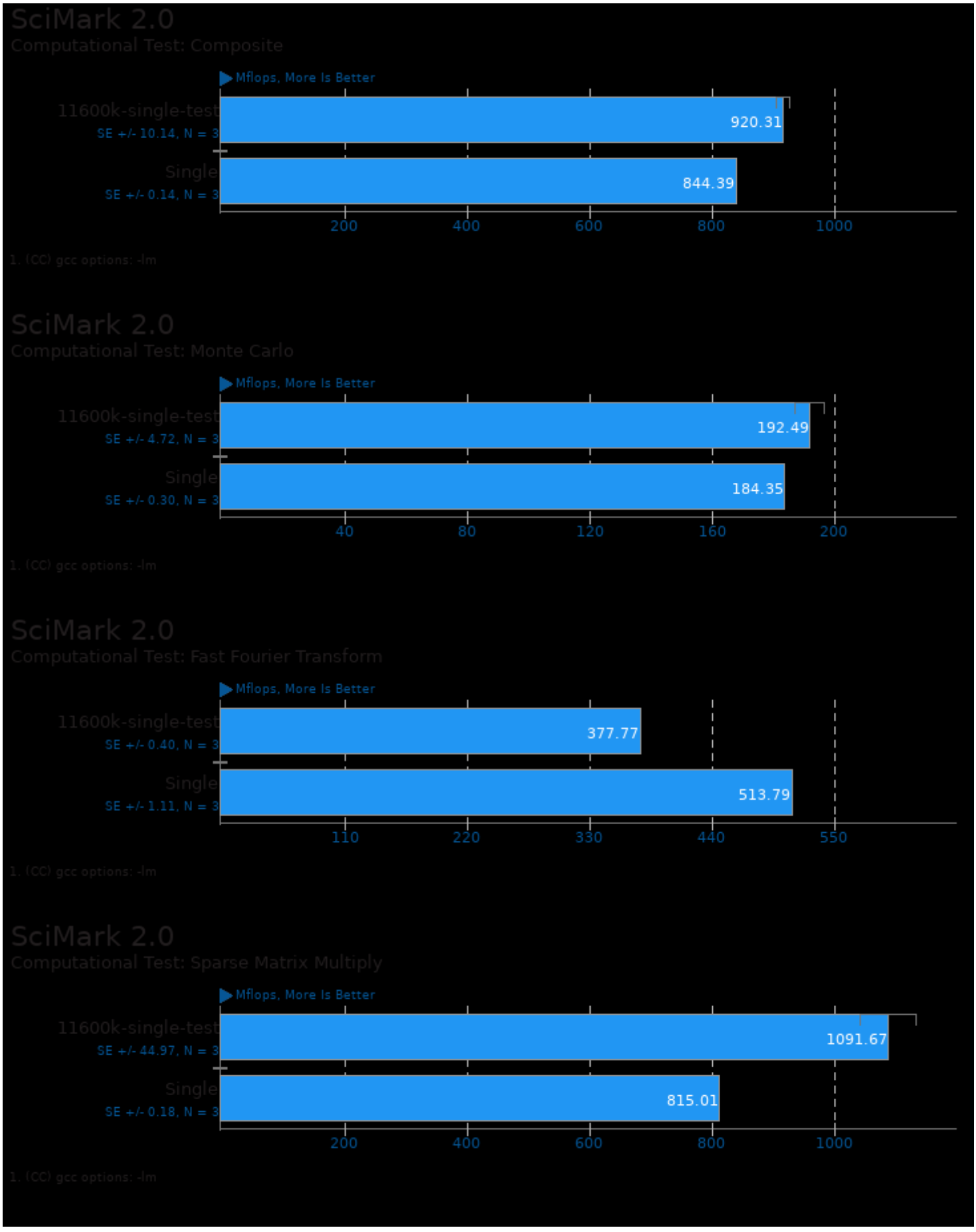


1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

I5-11600k single tread test



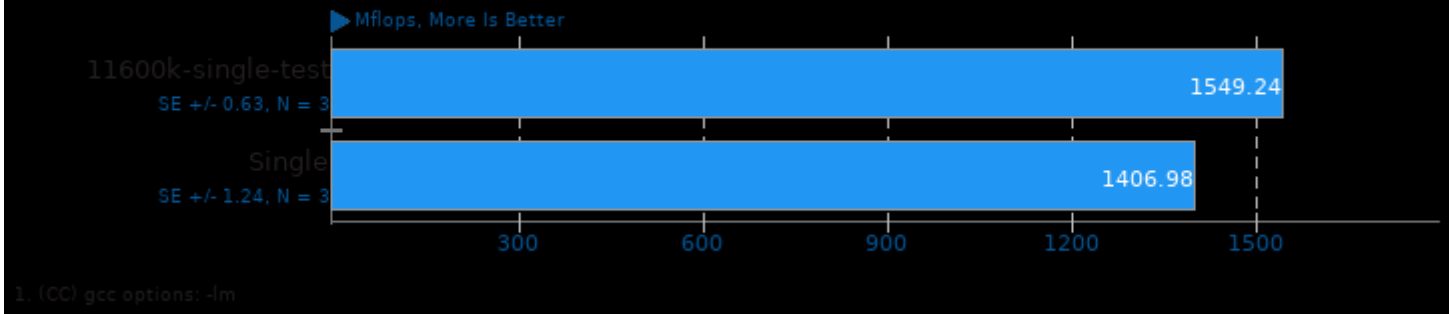
I5-11600k single tread test



I5-11600k single tread test

SciMark 2.0

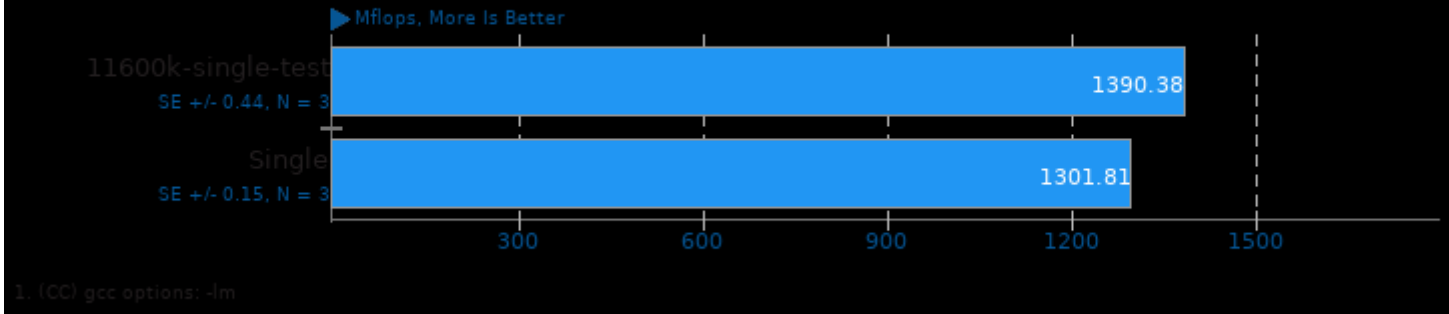
Computational Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm

SciMark 2.0

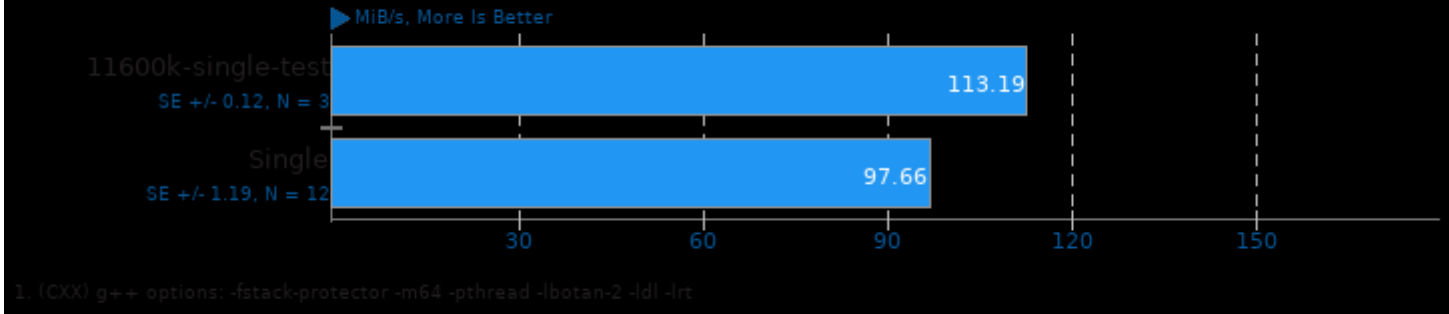
Computational Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm

Botan 2.17.3

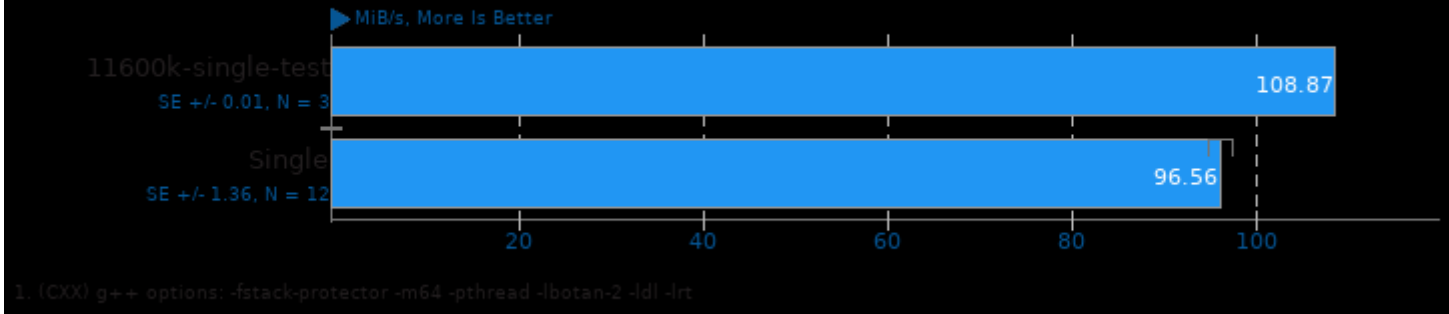
Test: KASUMI



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

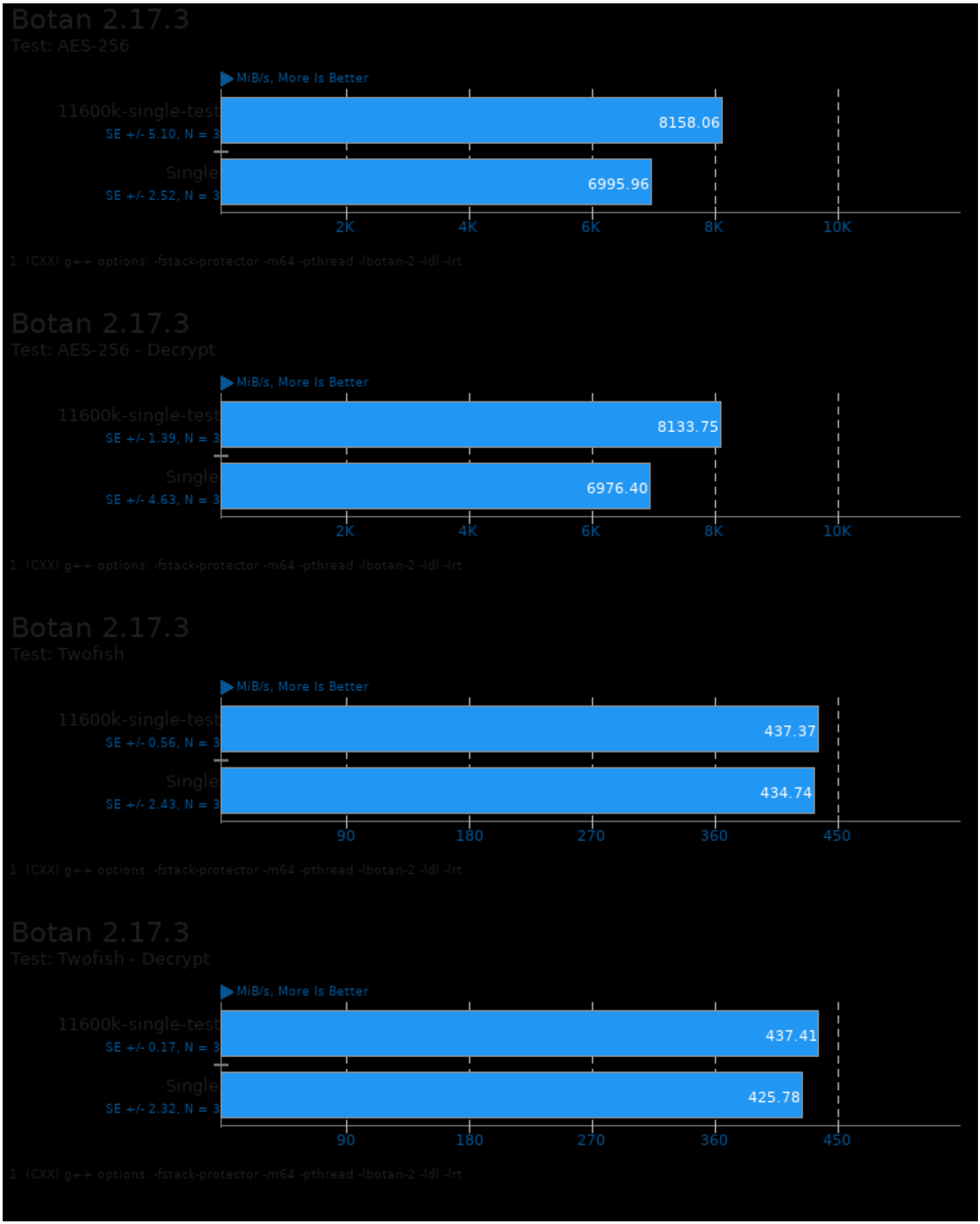
Botan 2.17.3

Test: KASUMI - Decrypt

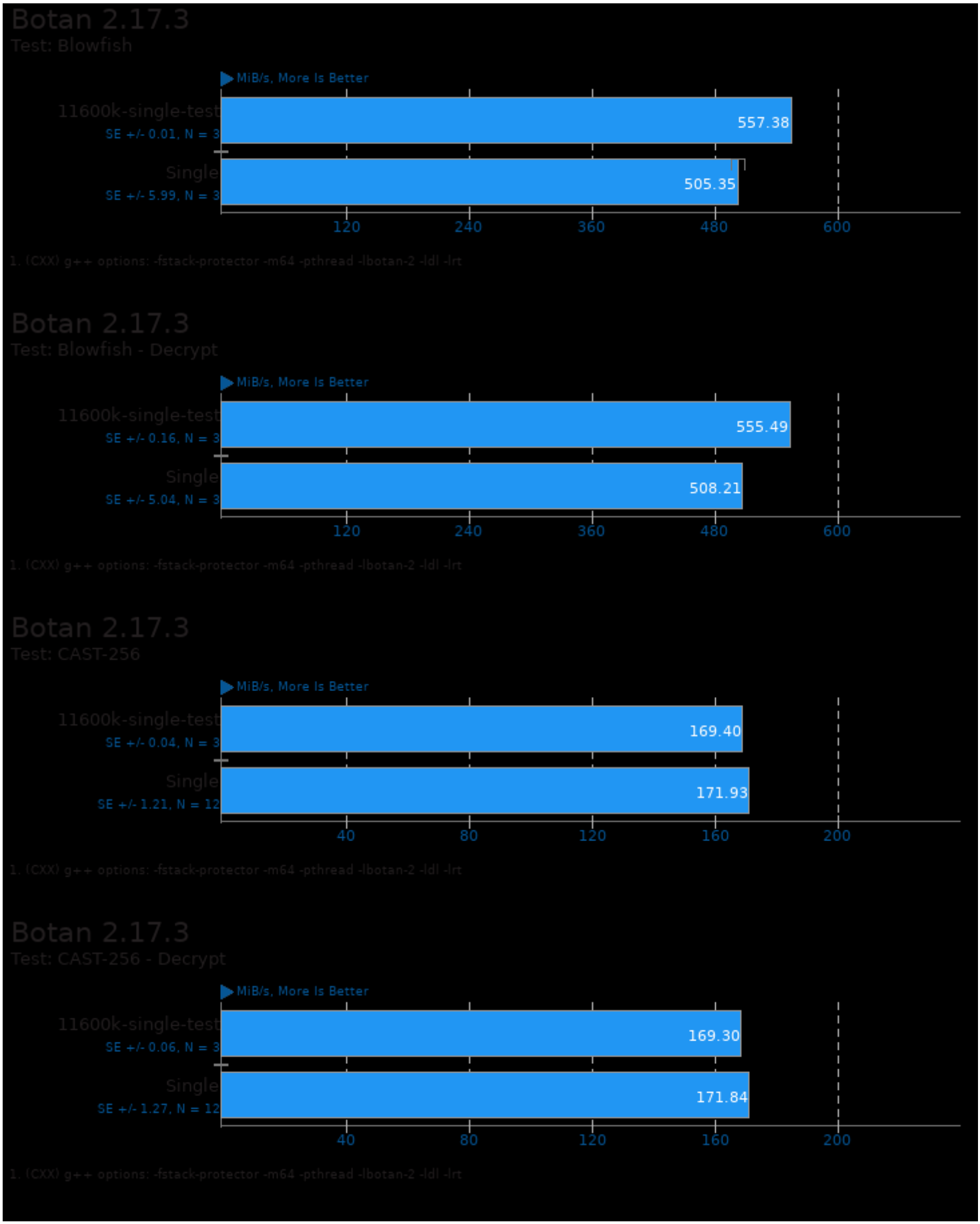


1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

I5-11600k single tread test



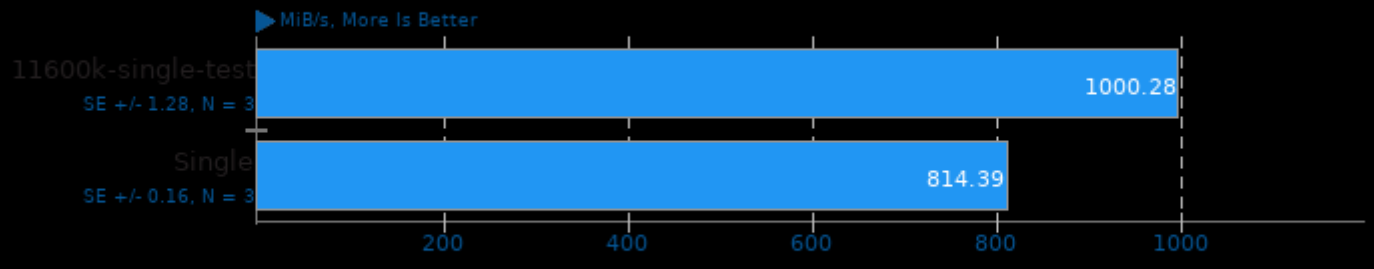
I5-11600k single tread test



I5-11600k single tread test

Botan 2.17.3

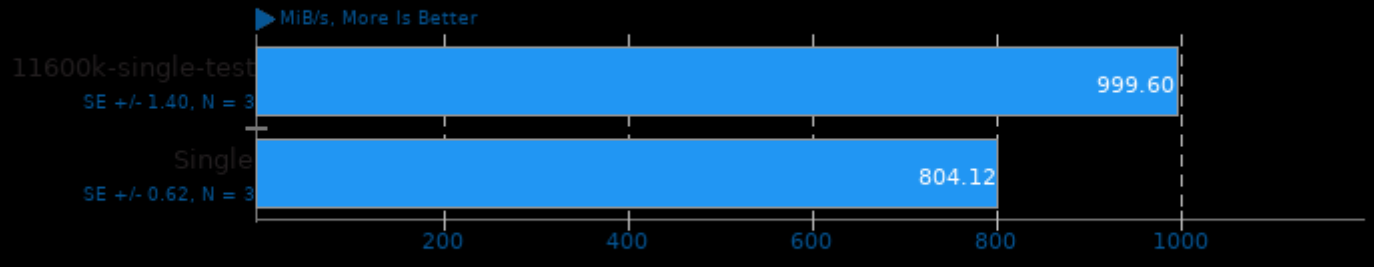
Test: ChaCha20Poly1305



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

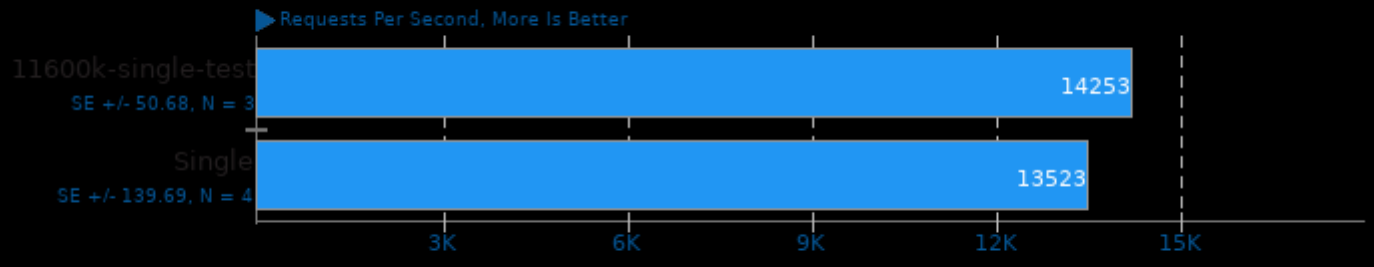
Botan 2.17.3

Test: ChaCha20Poly1305 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

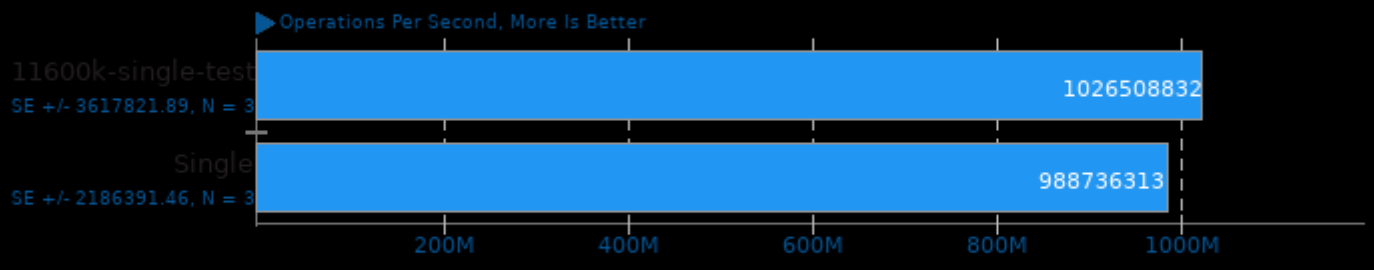
Node.js Express HTTP Load Test



1. Nodejs v10.19.0

Swet 1.5.16

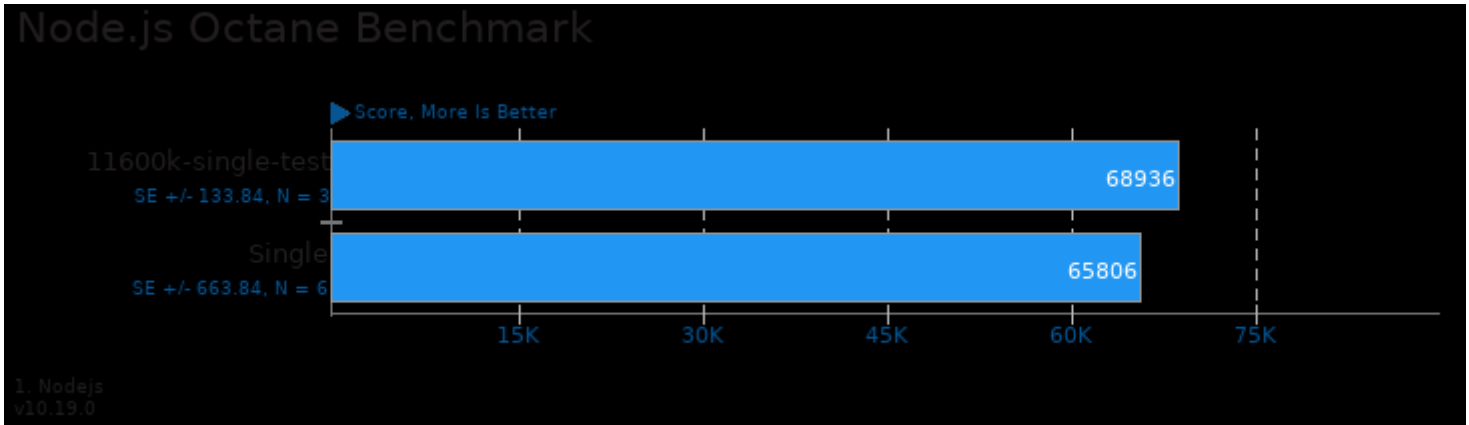
Average



1. (CC) gcc options: -lm -lpthread -lcurses -lrt

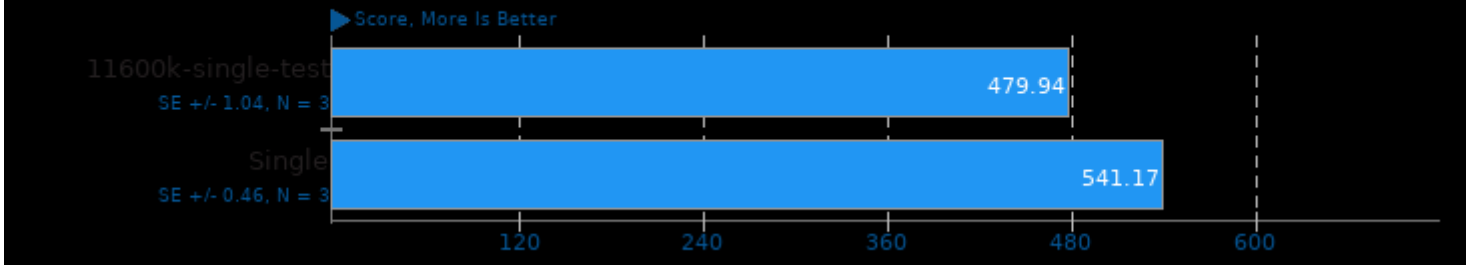
I5-11600k single tread test

Node.js Octane Benchmark



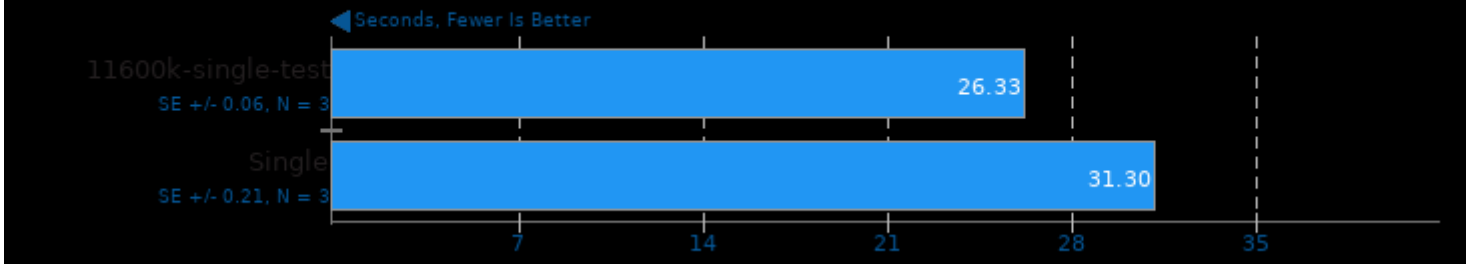
1. Nodejs v10.19.0

Numpy Benchmark



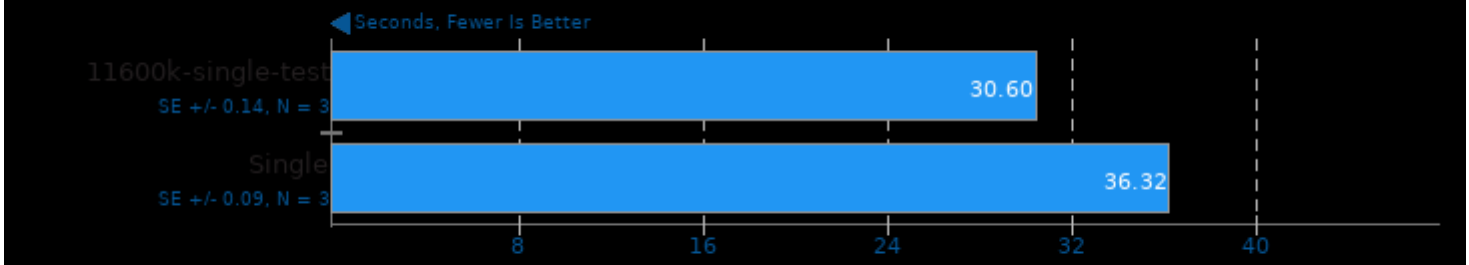
Gzip Compression

Linux Source Tree Archiving To .tar.gz



dcraw

RAW To PPM Image Conversion

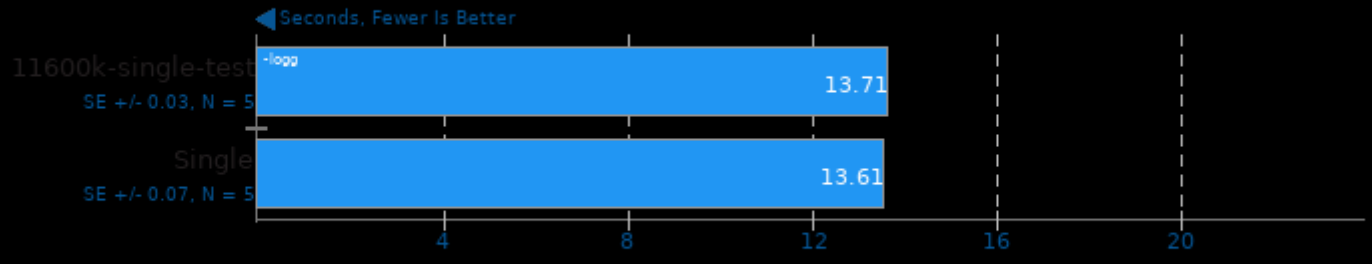


1. (CC) gcc options: -lm

I5-11600k single tread test

FLAC Audio Encoding 1.3.3

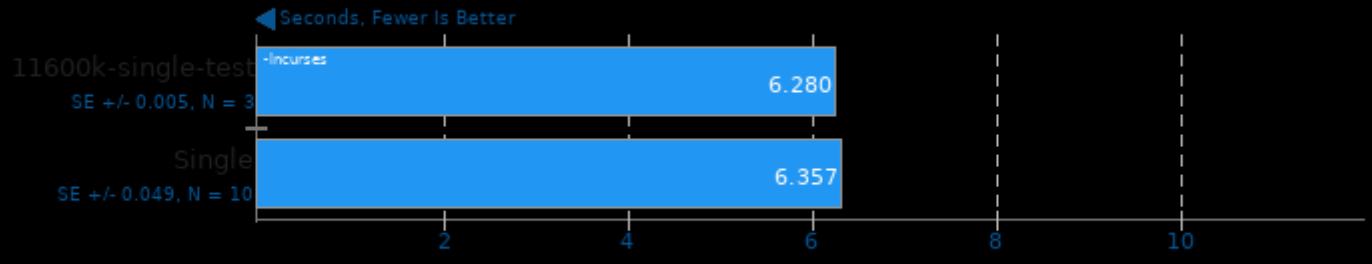
WAV To FLAC



1. (CXX) g++ options: -fvisibility=hidden -lm

LAME MP3 Encoding 3.100

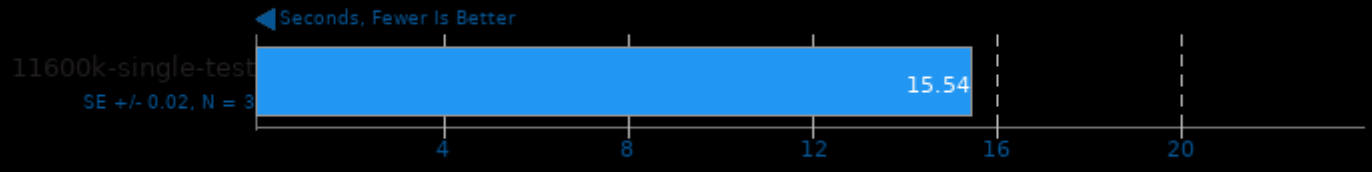
WAV To MP3



1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm

Ogg Audio Encoding 1.3.4

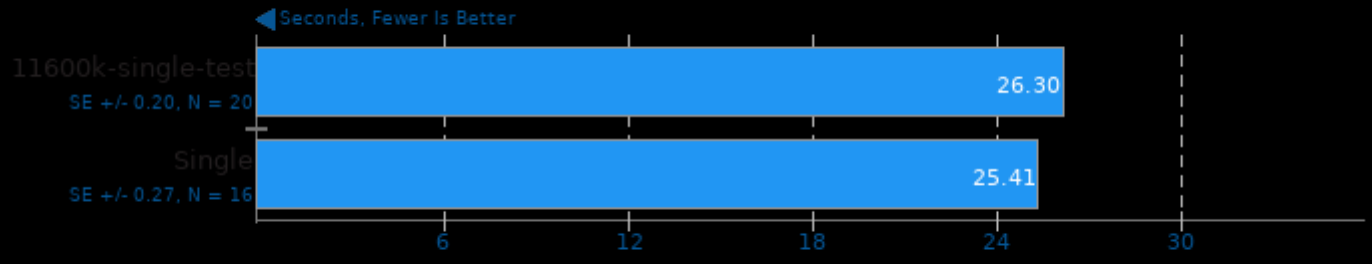
WAV To Ogg



1. (CC) gcc options: -O2 -ffast-math -fsigned-char

eSpeak-NG Speech Engine 20200907

Text-To-Speech Synthesis

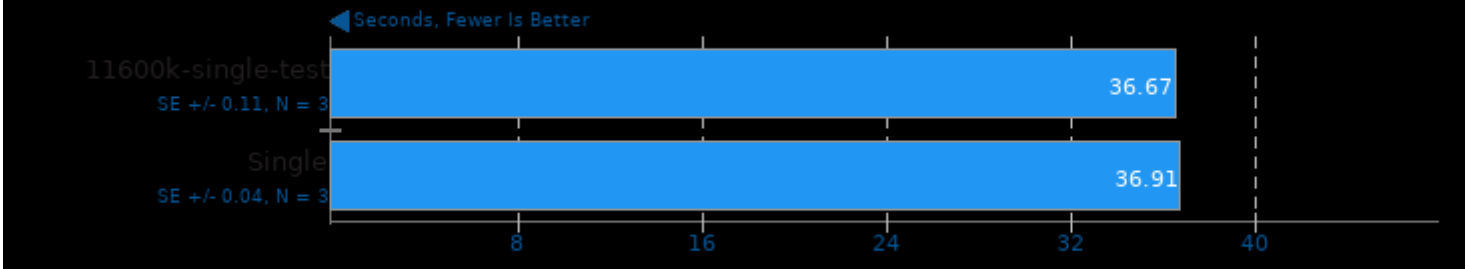


1. (CC) gcc options: -O2 -std=c99

I5-11600k single tread test

Minion 1.8

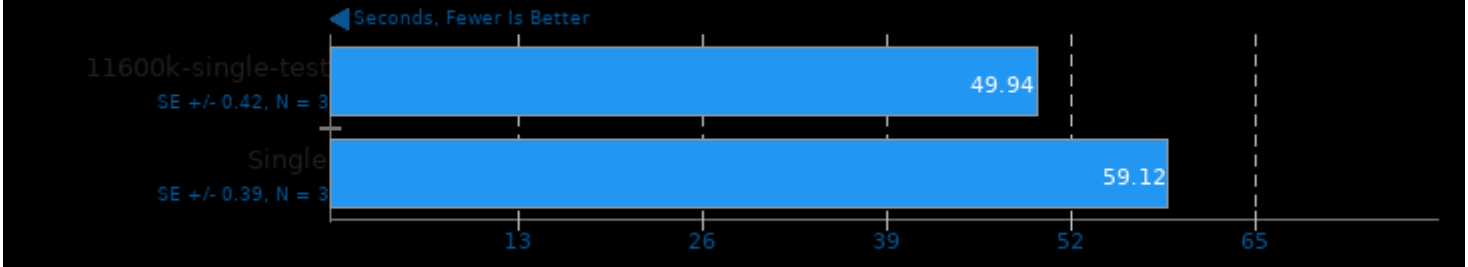
Benchmark: Graceful



1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

Minion 1.8

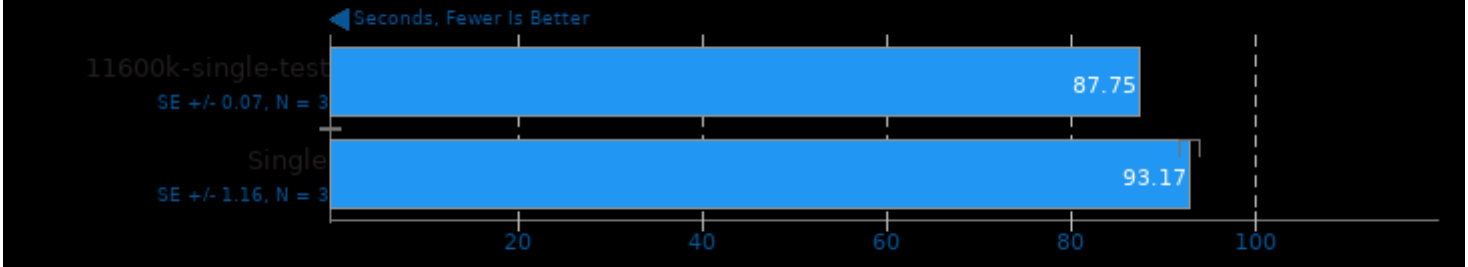
Benchmark: Solitaire



1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

Minion 1.8

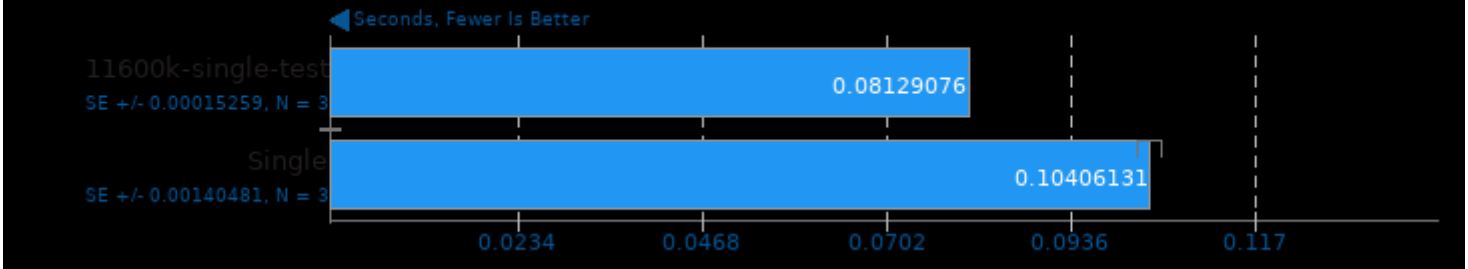
Benchmark: Quasigroup



1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

Perl Benchmarks

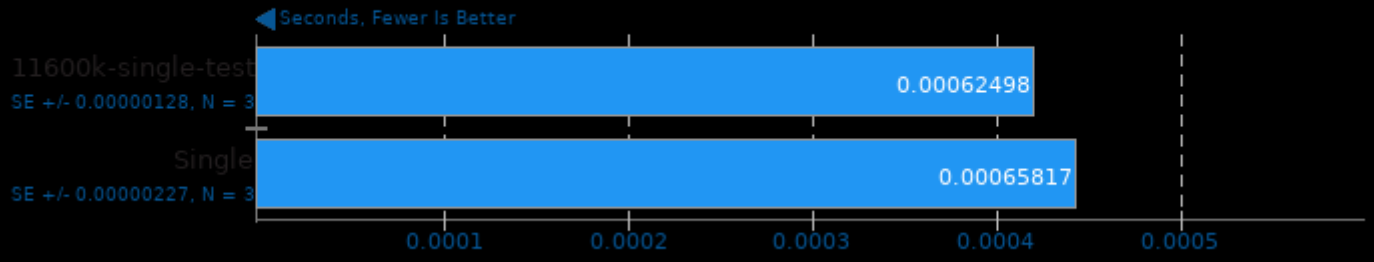
Test: Pod2html



I5-11600k single tread test

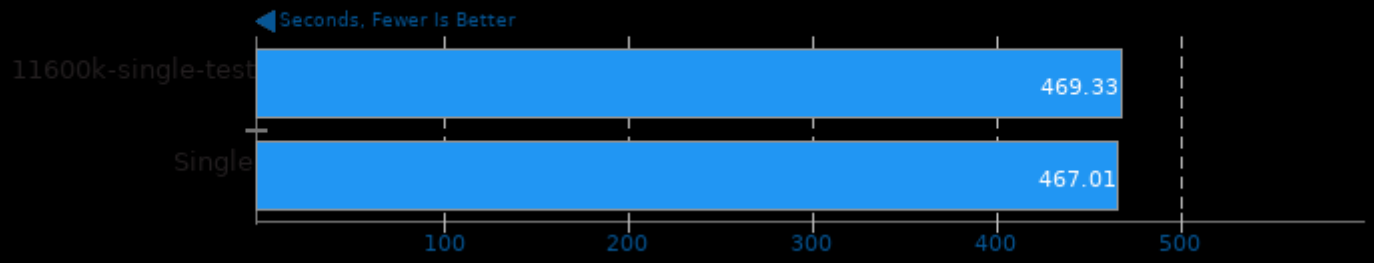
Perl Benchmarks

Test: Interpreter

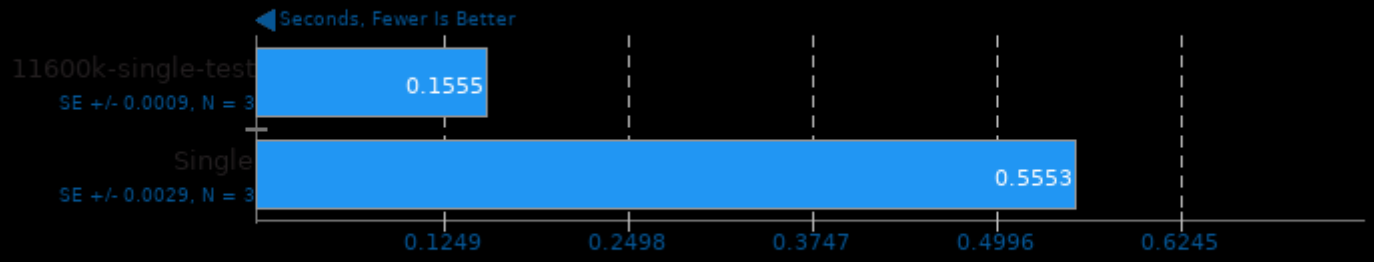


Radiance Benchmark 5.0

Test: Serial



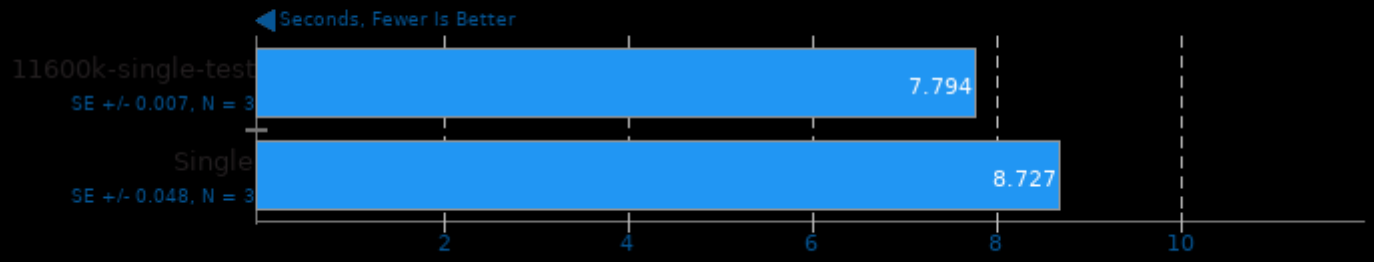
R Benchmark



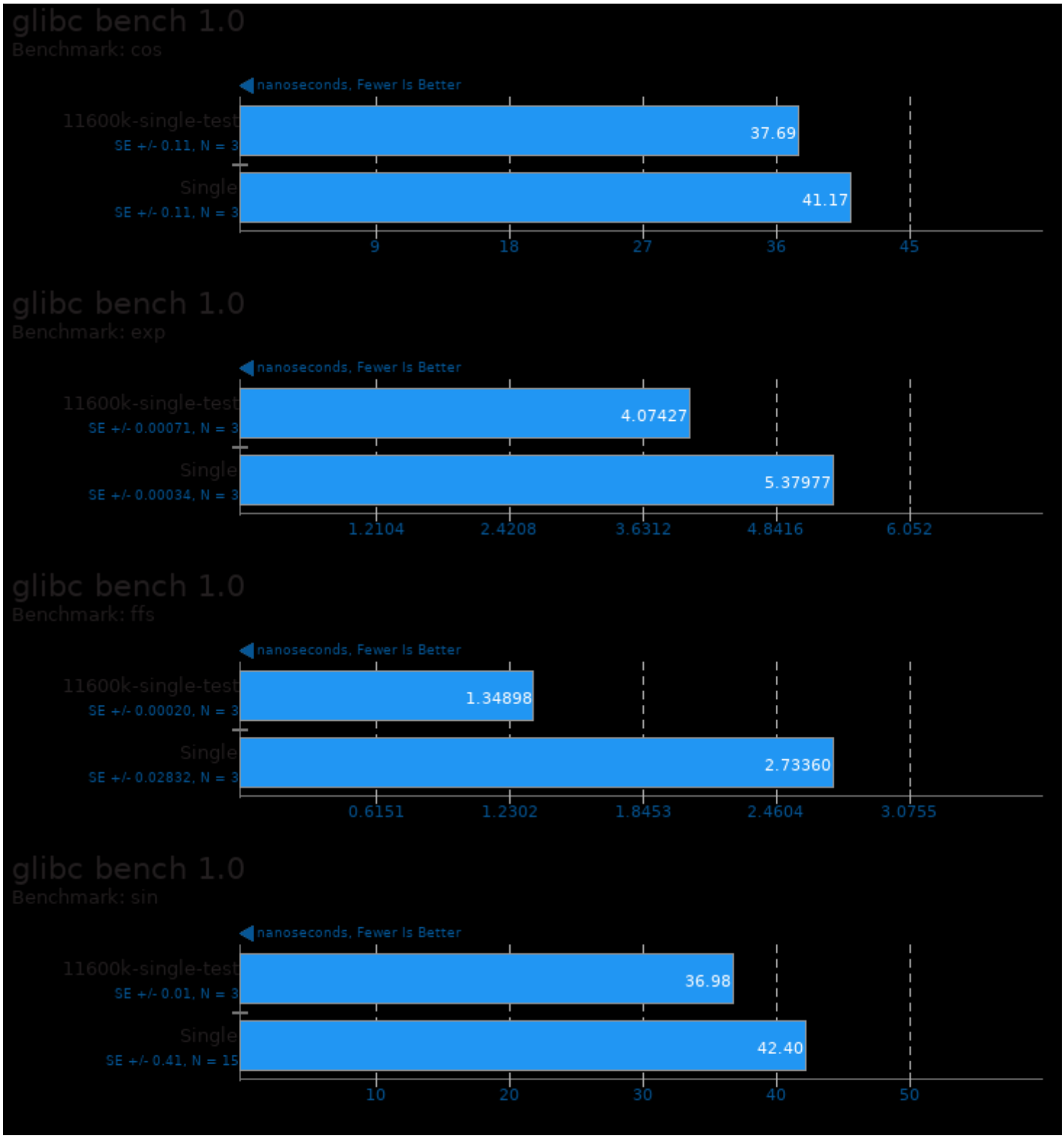
1. R scripting front-end version 3.6.3 (2020-02-29)

Sudokut 0.4

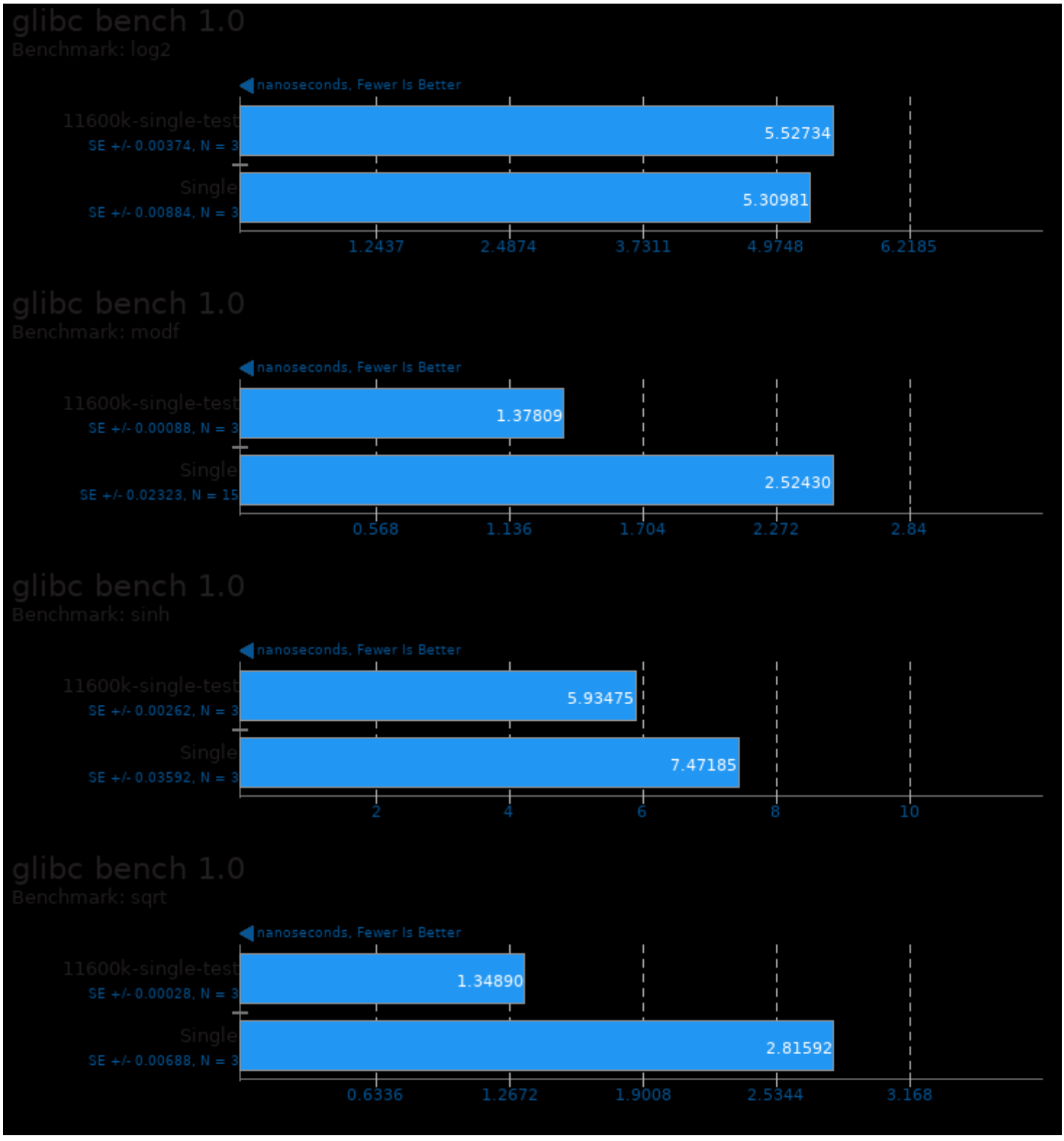
Total Time



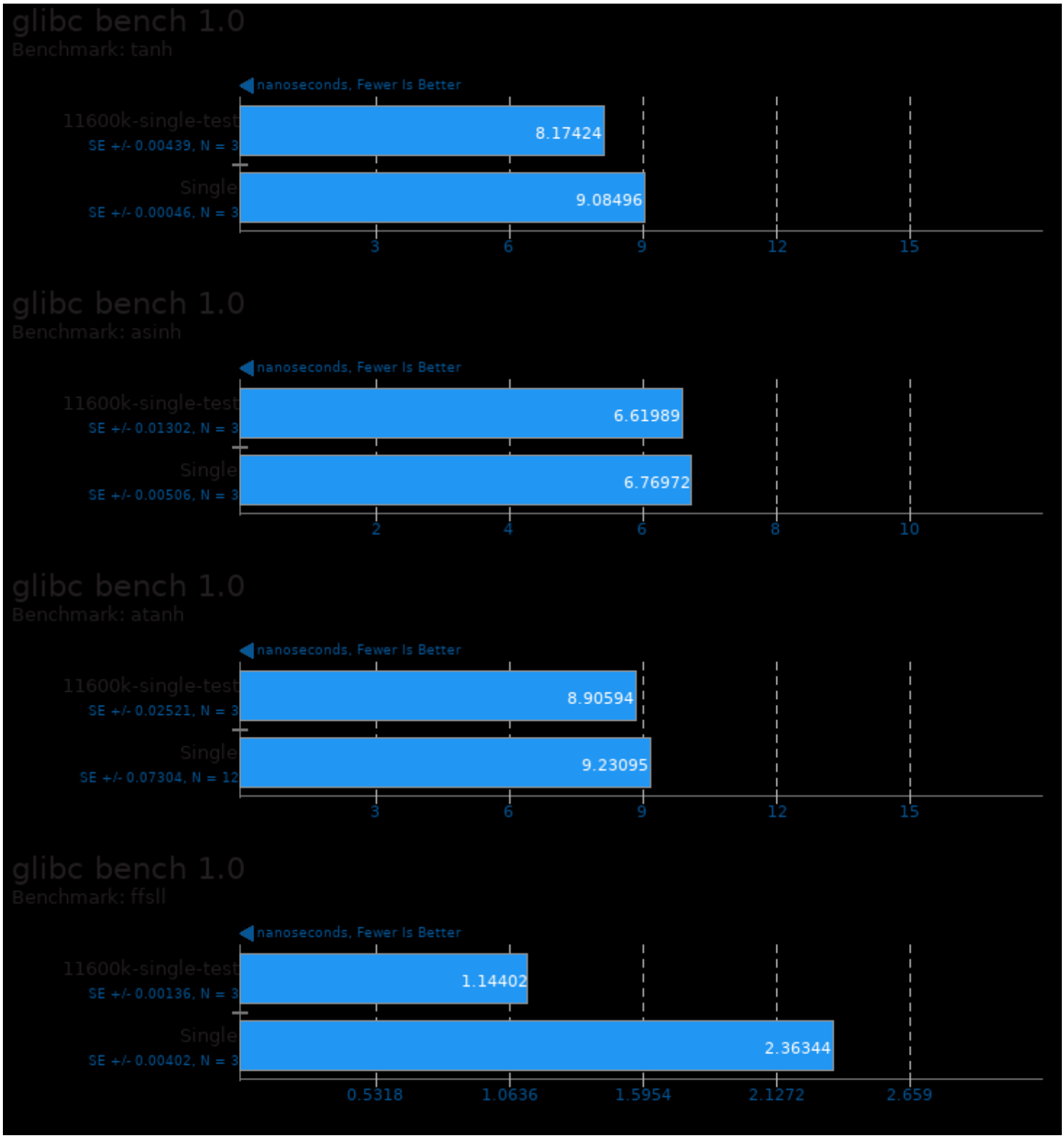
I5-11600k single tread test



I5-11600k single tread test



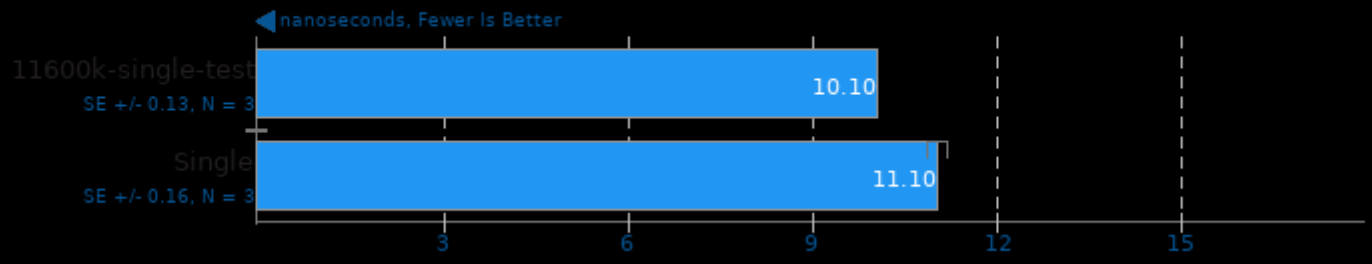
I5-11600k single tread test



I5-11600k single tread test

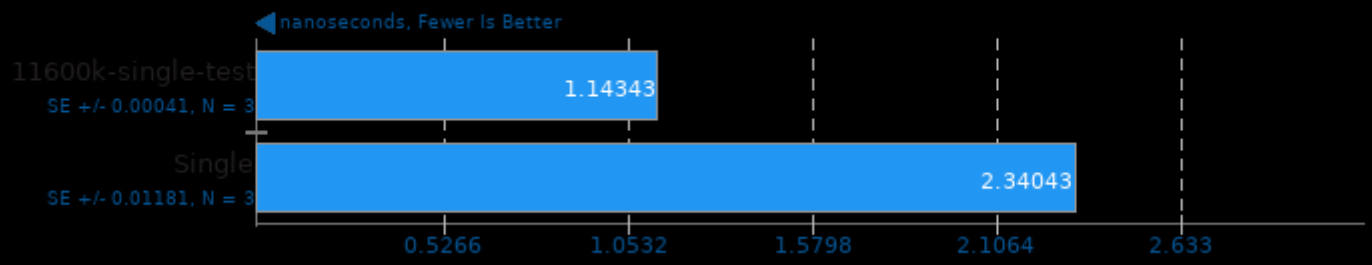
glibc bench 1.0

Benchmark: sincos



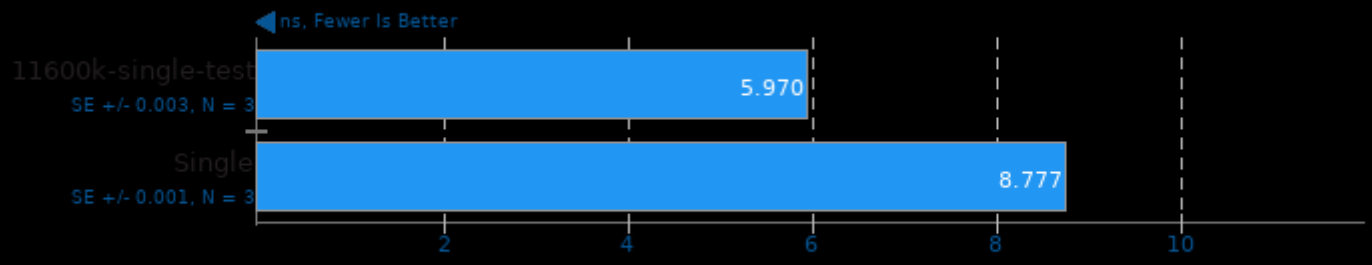
glibc bench 1.0

Benchmark: pthread_once



Multichase Pointer Chaser

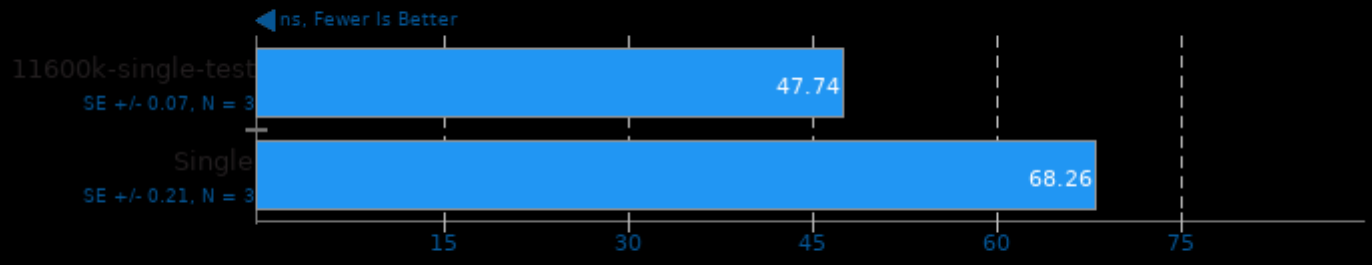
Test: 4MB Array, 64 Byte Stride



1. (CC) gcc options: -O2 -static -pthread -lrt

Multichase Pointer Chaser

Test: 1GB Array, 256 Byte Stride

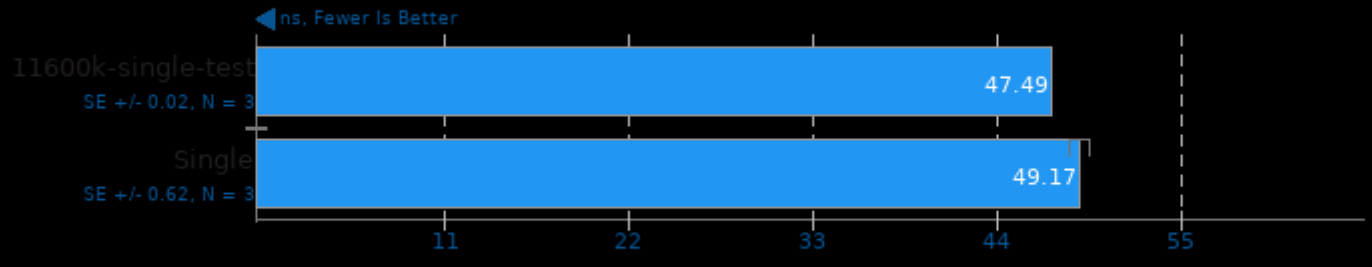


1. (CC) gcc options: -O2 -static -pthread -lrt

I5-11600k single tread test

Multichase Pointer Chaser

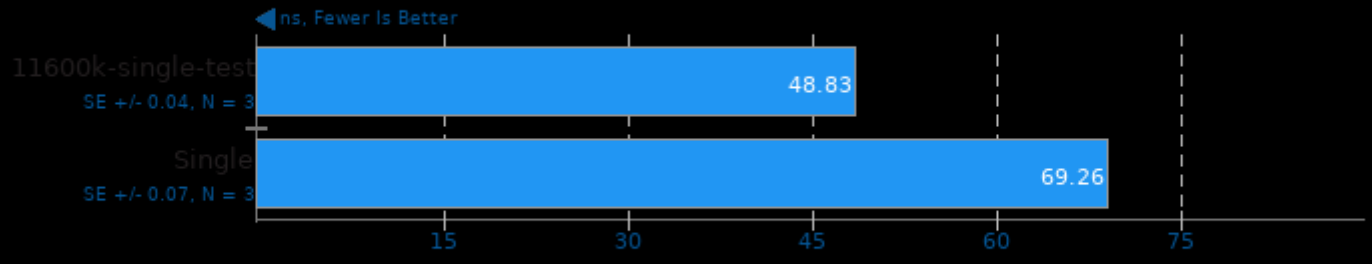
Test: 256MB Array, 256 Byte Stride



1. (CC) gcc options: -O2 -static -pthread -lrt

Multichase Pointer Chaser

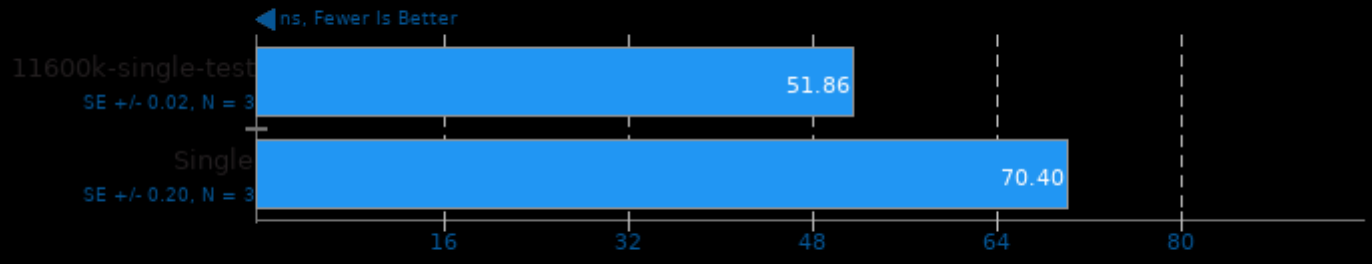
Test: 1GB Array, 256 Byte Stride, 2 Threads



1. (CC) gcc options: -O2 -static -pthread -lrt

Multichase Pointer Chaser

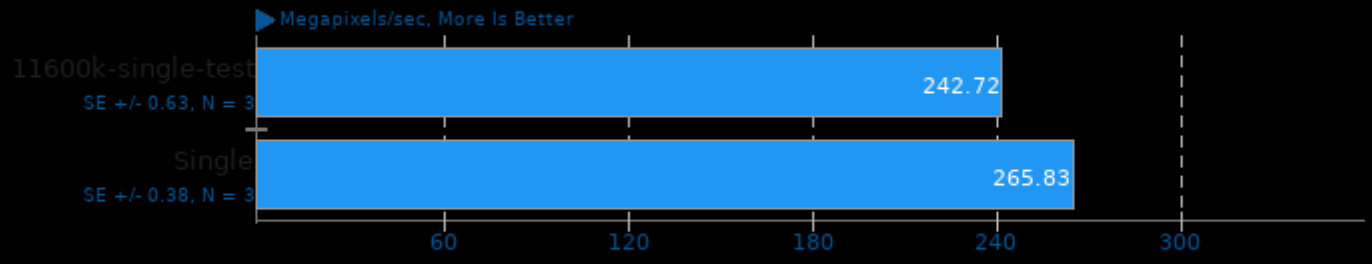
Test: 1GB Array, 256 Byte Stride, 4 Threads



1. (CC) gcc options: -O2 -static -pthread -lrt

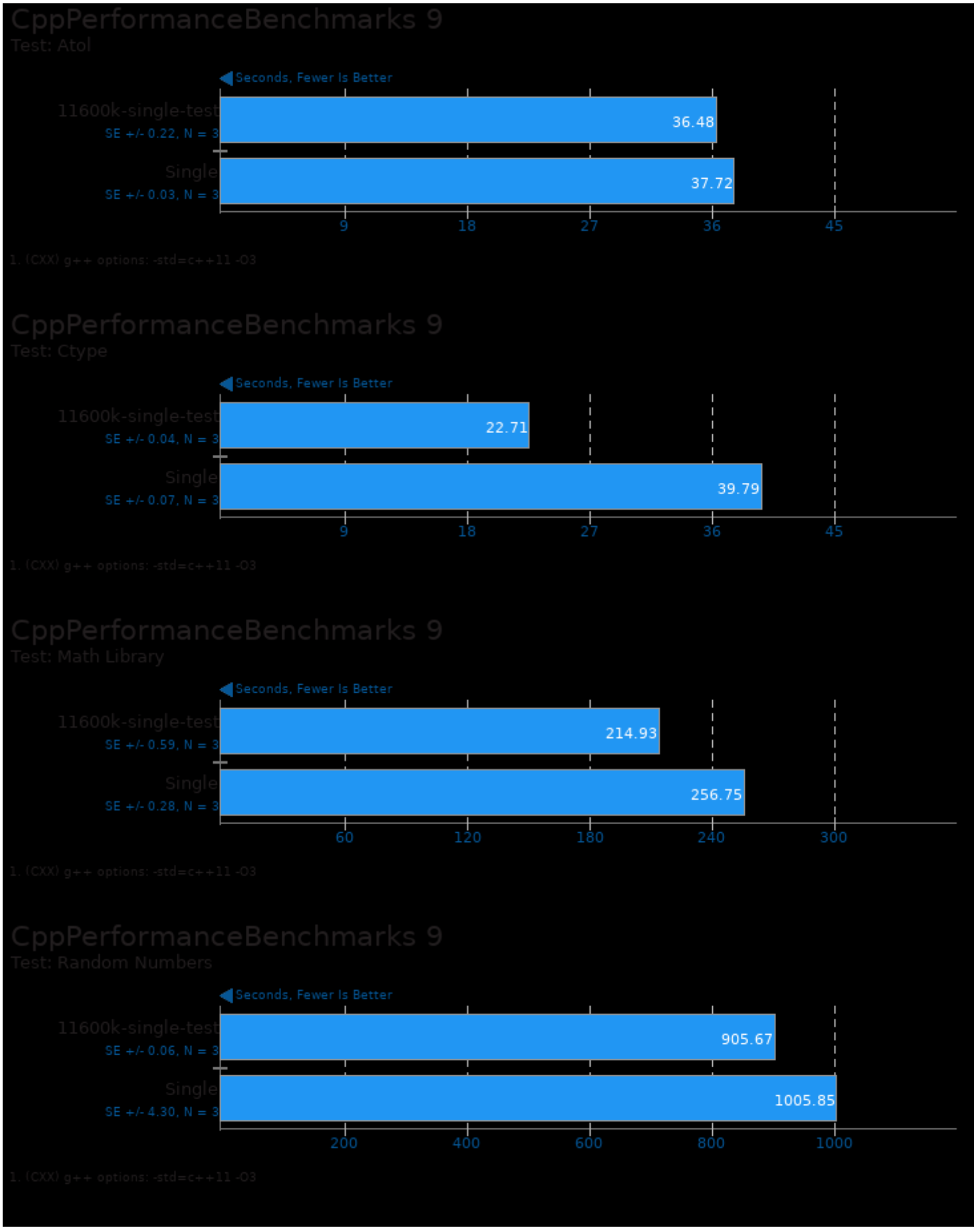
libjpeg-turbo tjbench 2.1.0

Test: Decompression Throughput

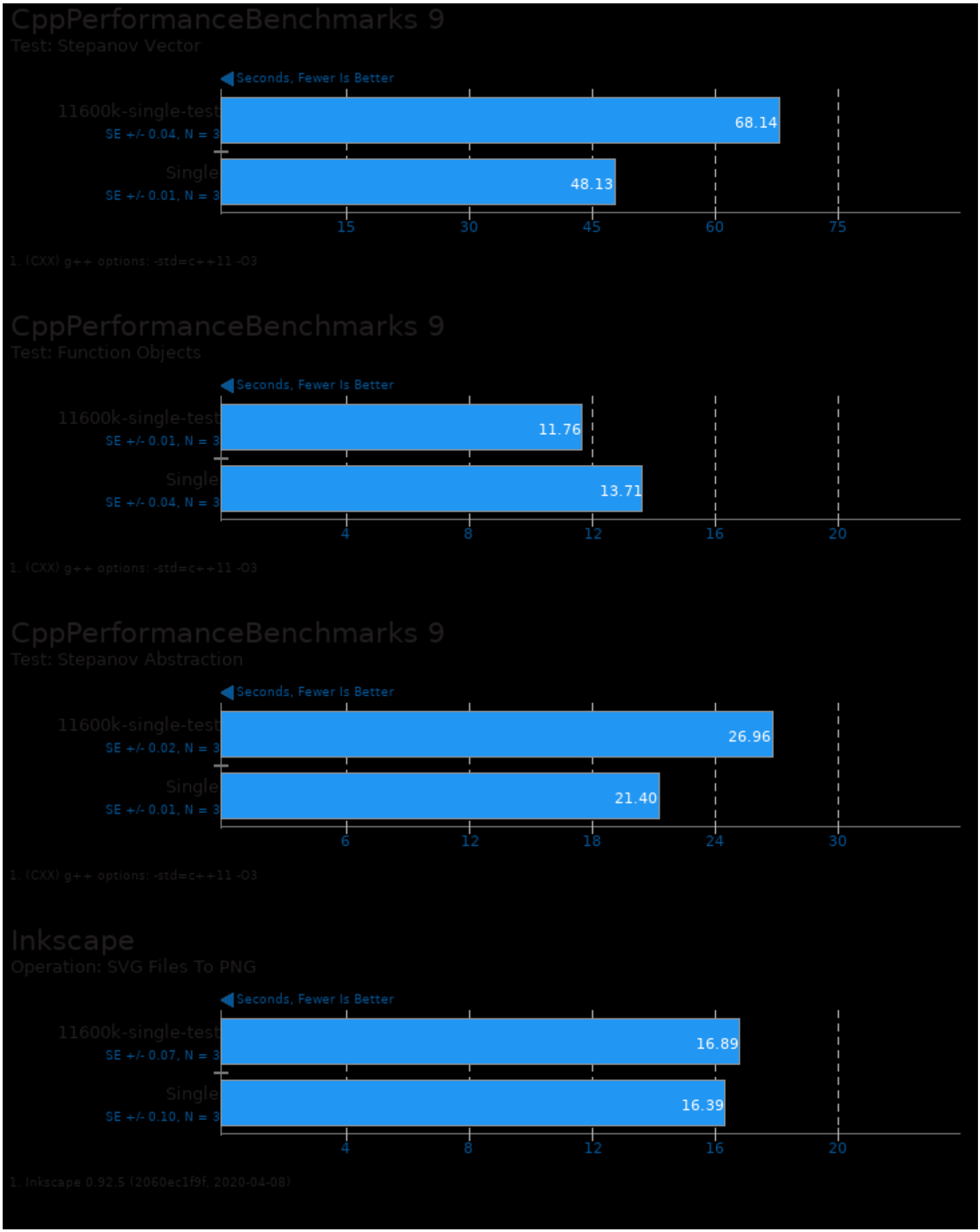


1. (CC) gcc options: -O3 -rdynamic

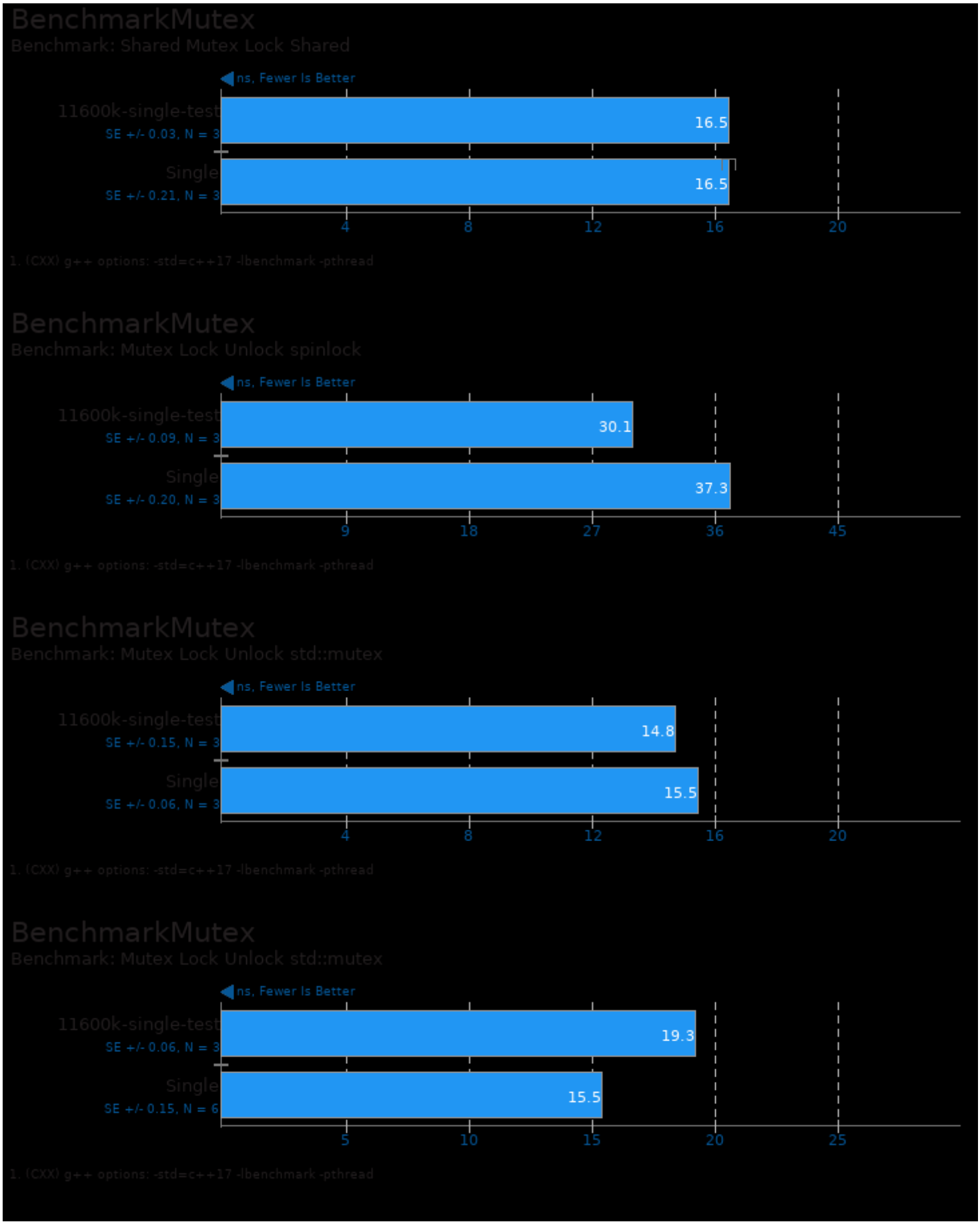
I5-11600k single tread test



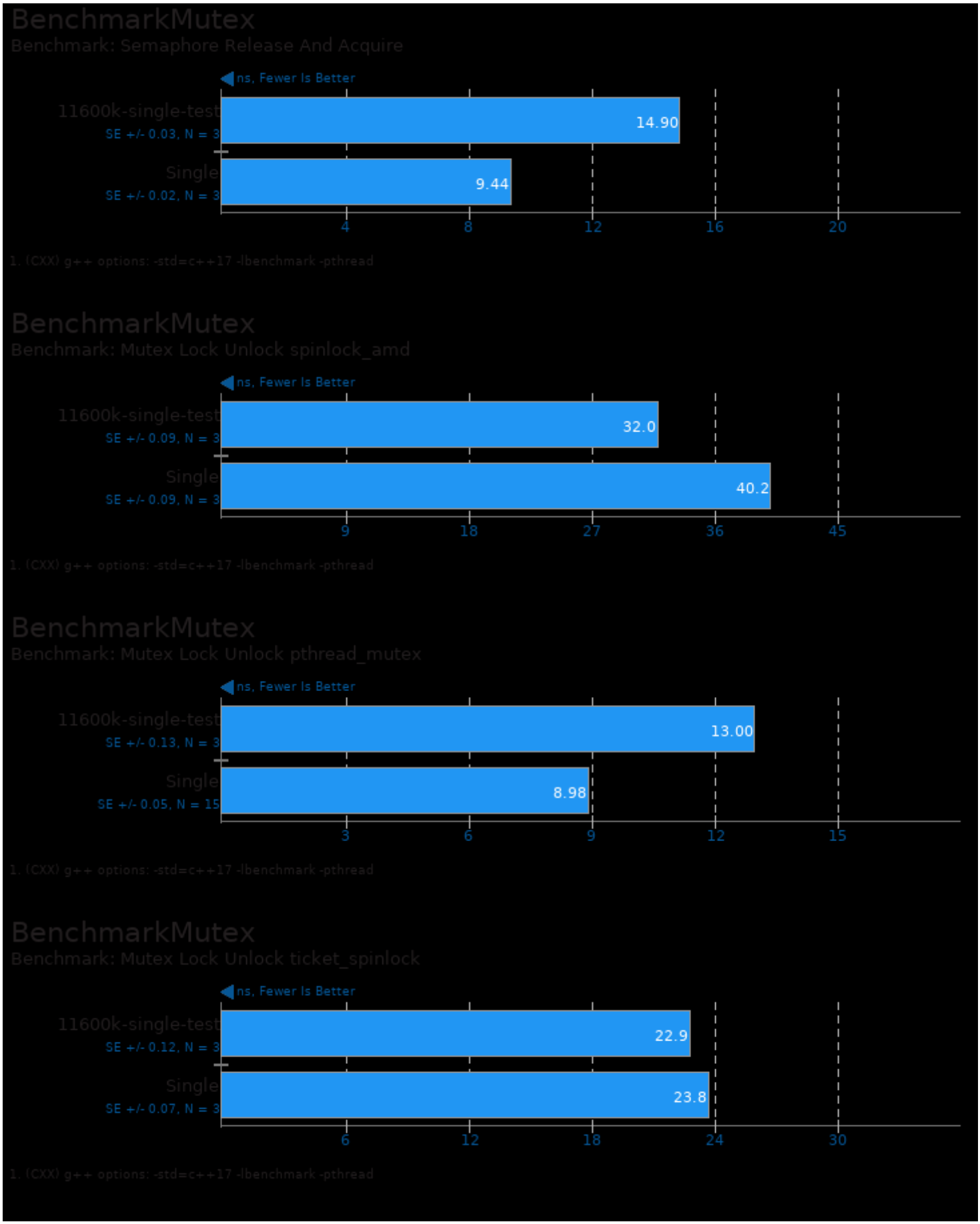
I5-11600k single tread test



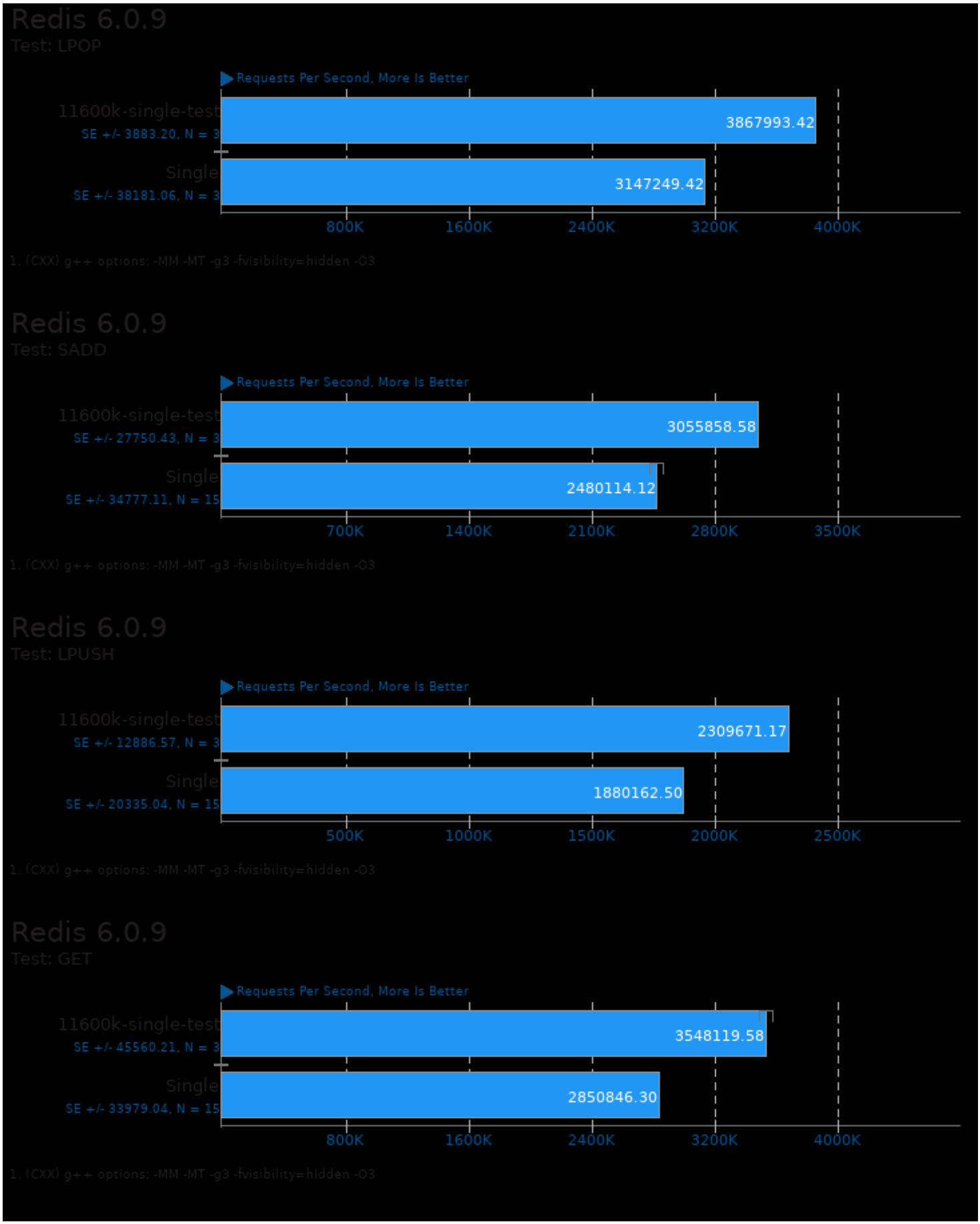
I5-11600k single tread test



I5-11600k single tread test



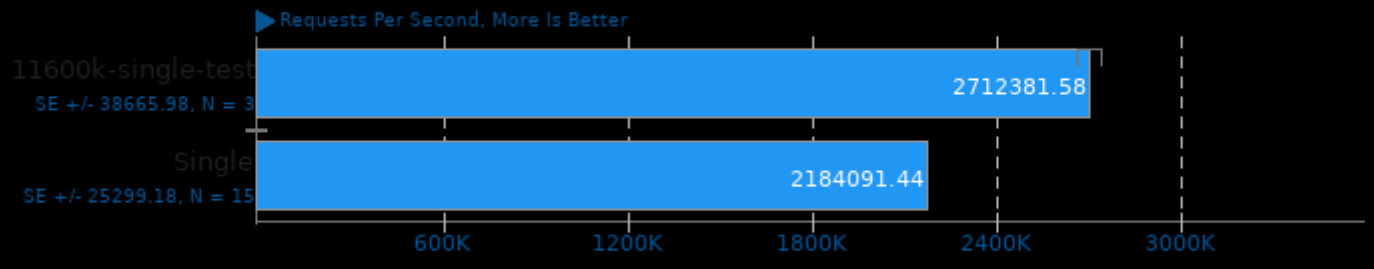
I5-11600k single tread test



I5-11600k single tread test

Redis 6.0.9

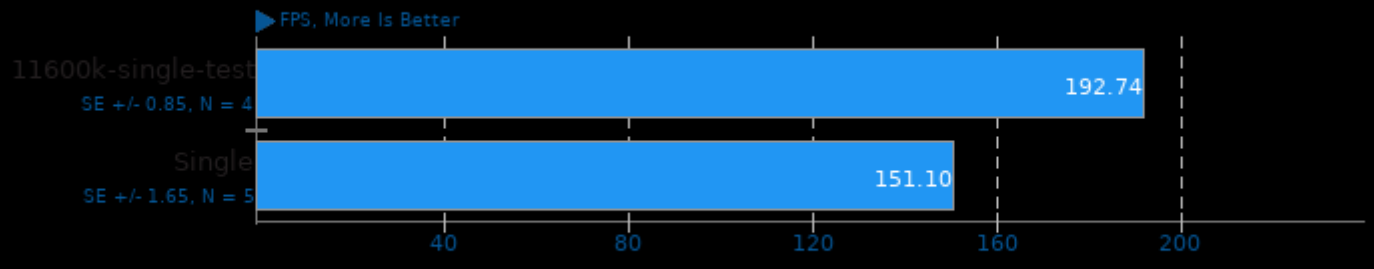
Test: SET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Optcarrot

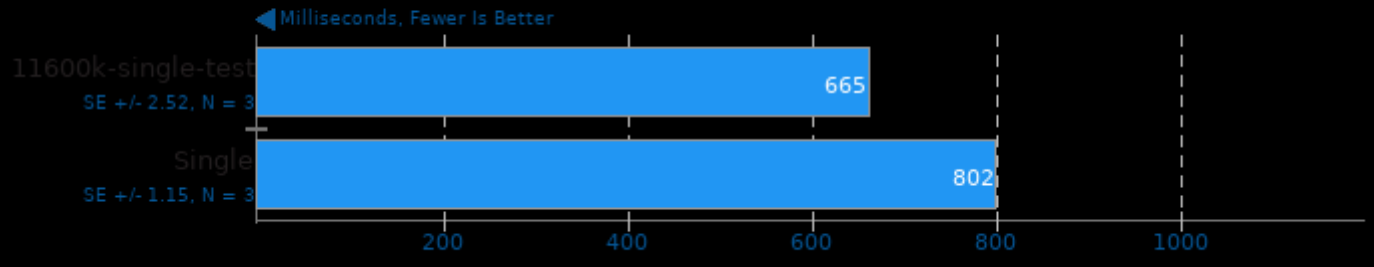
Optimized Benchmark



1. ruby 2.7.0p0 (2019-12-25 revision 647ee6f091) [x86_64-linux-gnu]

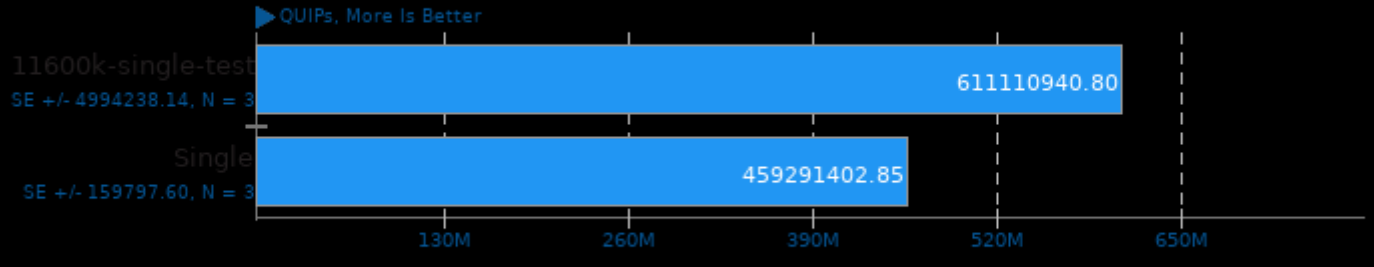
PyBench 2018-02-16

Total For Average Test Times



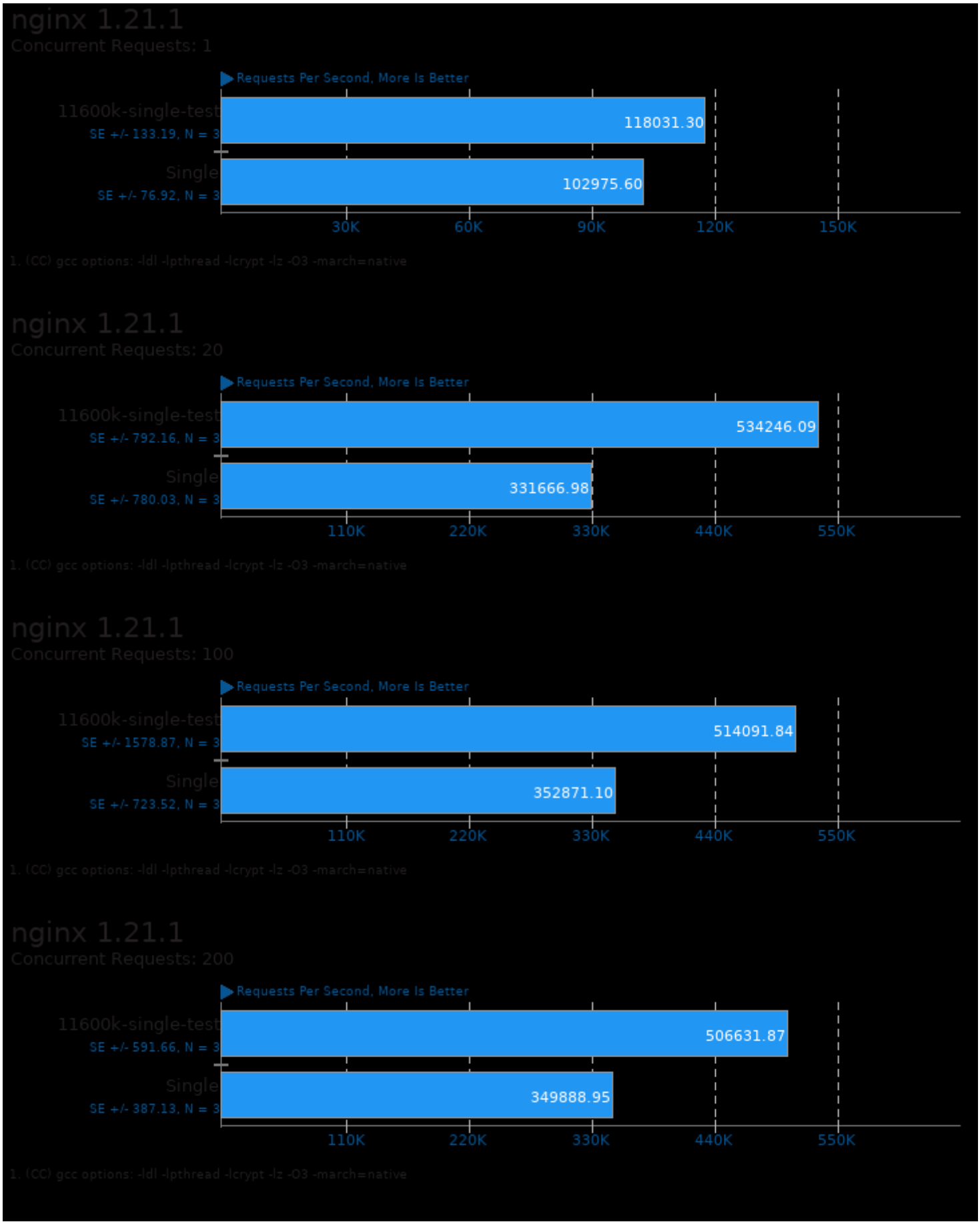
Hierarchical INTegration 1.0

Test: FLOAT



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

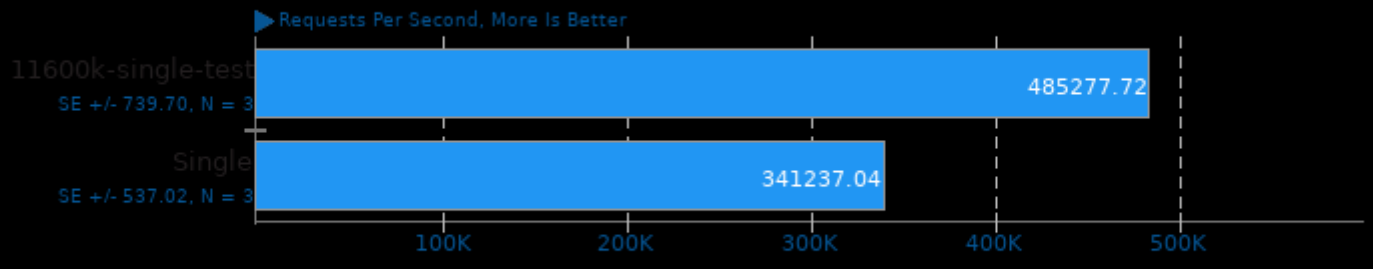
I5-11600k single tread test



I5-11600k single tread test

nginx 1.21.1

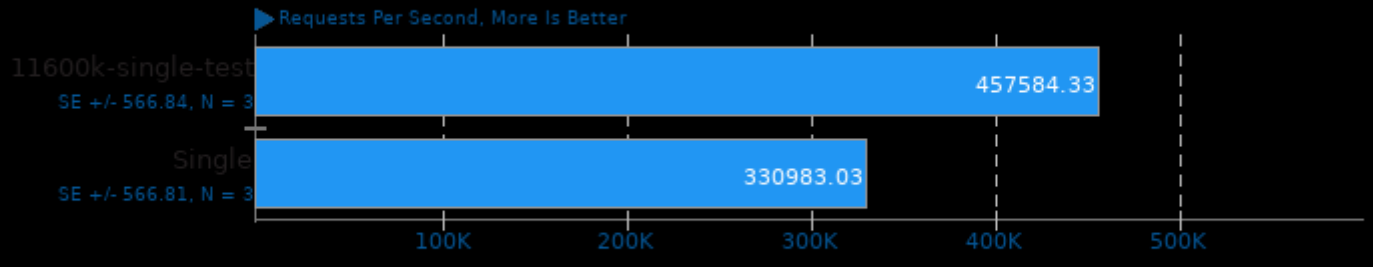
Concurrent Requests: 500



1. (CC) gcc options: -ldl -lpthread -lcrypt -lz -O3 -march=native

nginx 1.21.1

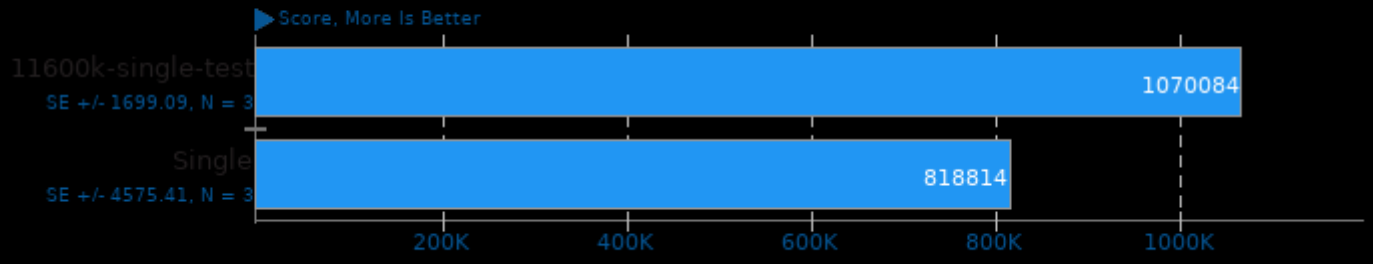
Concurrent Requests: 1000



1. (CC) gcc options: -ldl -lpthread -lcrypt -lz -O3 -march=native

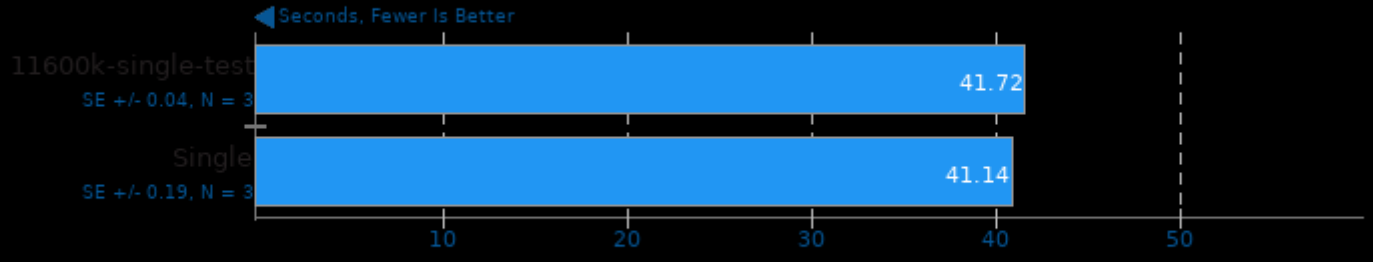
PHPBench 0.8.1

PHP Benchmark Suite



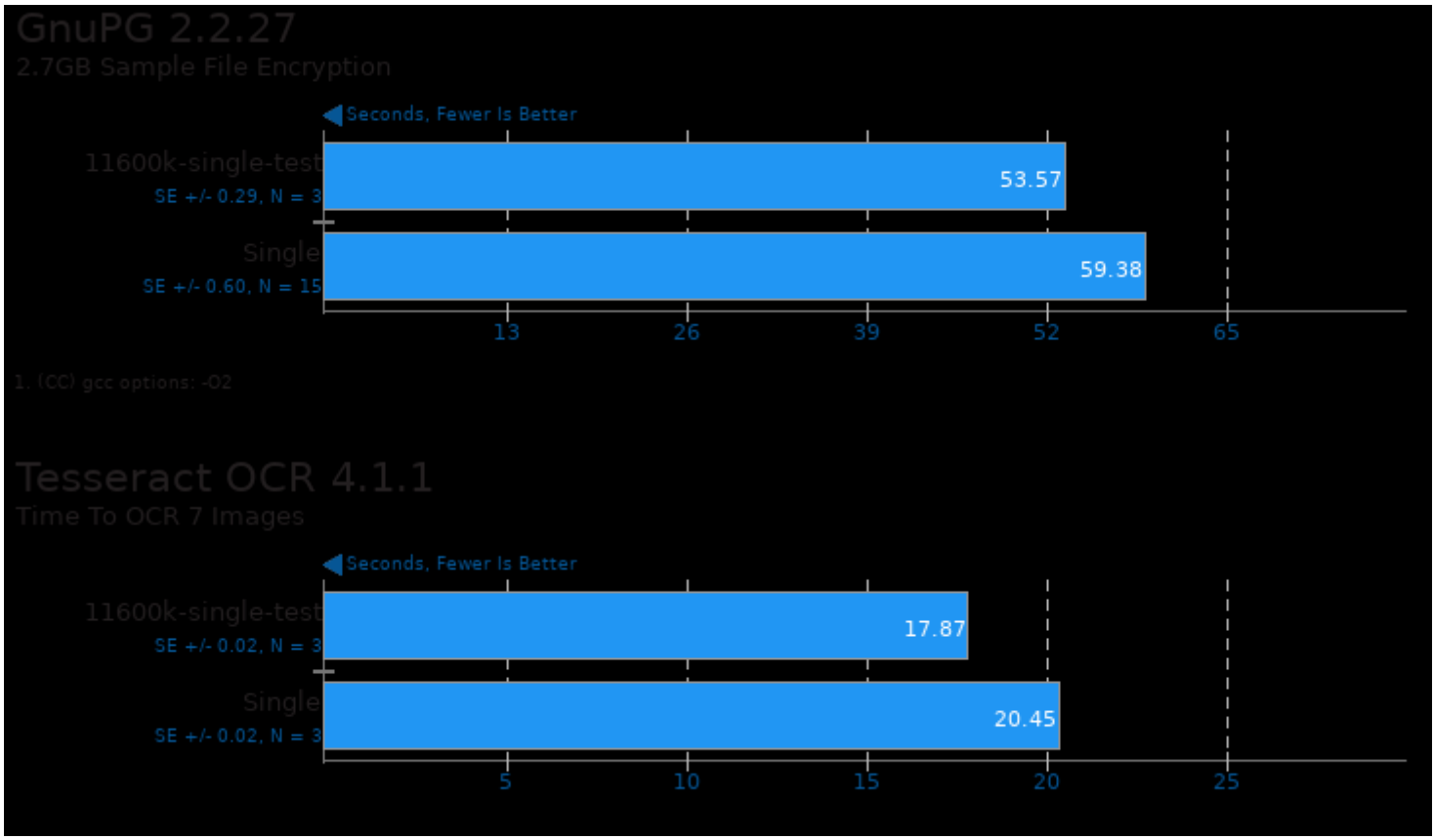
Git

Time To Complete Common Git Commands



1. git version 2.25.1

I5-11600k single tread test



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