



12400 June

Intel Core i5-12400 testing with a ASRock B660M-HDV (3.02 BIOS) and Intel ADL-S GT1 3GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

B had the most wins, coming in first place for 39% of the tests.

Based on the geometric mean of all complete results, the fastest (B) was 1.001x the speed of the slowest (C). A was 0.999x the speed of B and C was 1x the speed of A.

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

Renaissance (Test: Scala Dotty) at 1.135x

Stress-NG (Test: SENDFILE) at 1.107x

SVT-AV1 (Encoder Mode: Preset 10 - Input: Bosphorus 4K) at 1.088x

SVT-VP9 (Tuning: PSNR/SSIM Optimized - Input: Bosphorus 4K) at 1.067x

AOM AV1 (Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K) at 1.066x

SVT-VP9 (Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p) at 1.046x

SVT-VP9 (Tuning: VMAF Optimized - Input: Bosphorus 4K) at 1.044x

SVT-VP9 (Tuning: VMAF Optimized - Input: Bosphorus 1080p) at 1.037x

Stress-NG (Test: IO_uring) at 1.035x

Renaissance (Test: Apache Spark ALS) at 1.033x.

Test Systems:

A

B

C

Processor: Intel Core i5-12400 @ 5.60GHz (6 Cores / 12 Threads), Motherboard: ASRock B660M-HDV (3.02 BIOS), Chipset: Intel Device 7aa7, Memory: 16GB, Disk: 512GB Sabrent, Graphics: Intel ADL-S GT1 3GB (1450MHz), Audio: Realtek ALC897, Monitor: DELL S2409W, Network: Intel

OS: Ubuntu 22.04, Kernel: 5.15.0-25-generic (x86_64), Desktop: GNOME Shell 41.3, Display Server: X Server 1.20.14 + Wayland, OpenGL: 4.6 Mesa 22.0.1, Vulkan: 1.2.204, Compiler: GCC 11.2.0, 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-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgen-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-gcn/usr --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-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x18 - ThermalD 2.4.9

Java Notes: OpenJDK Runtime Environment (build 11.0.14.1+1-Ubuntu-0ubuntu1)

Security Notes: itlb_multihit: Not affected + I1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C
Renaissance - Scala Dotty (ms)	616.1	614.0	696.7
Normalized	99.66%	100%	88.13%
Standard Deviation			1.7%
Stress-NG - SENDFILE (Bogo Ops/s)	162470	163482	147726
Normalized	99.38%	100%	90.36%
Standard Deviation			0.4%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	65.118	65.004	70.703
Normalized	92.1%	91.94%	100%
Standard Deviation			0.4%
SVT-VP9 - P.S.O - Bosphorus 4K (FPS)	55.37	55.75	59.08
Normalized	93.72%	94.36%	100%
Standard Deviation			0.2%

AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	70.49	66.15	67.51
Normalized	100%	93.84%	95.77%
Standard Deviation			3.2%
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	182.53	182.72	190.89
Normalized	95.62%	95.72%	100%
Standard Deviation			0.4%
SVT-VP9 - VMAF Optimized - Bosphorus 4K (FPS)	53.25	53.47	55.58
Normalized	95.81%	96.2%	100%
Standard Deviation			2.5%
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	181.55	180.37	187.13
Normalized	97.02%	96.39%	100%
Standard Deviation			2.2%
Stress-NG - IO_uring (Bogo Ops/s)	19979	19321	19996
Normalized	99.91%	96.62%	100%
Standard Deviation			2.5%
Renaissance - Apache Spark ALS (ms)	2622	2655	2709
Normalized	100%	98.75%	96.8%
Standard Deviation			1.2%
SVT-HEVC - 7 - Bosphorus 4K (FPS)	36.23	36.35	37.41
Normalized	96.85%	97.17%	100%
Standard Deviation			0.2%
Renaissance - G.A.U.J.F (ms)	1656	1622	1604
Normalized	96.87%	98.92%	100%
Standard Deviation			1.1%
AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)	57.71	58.48	59.54
Normalized	96.93%	98.22%	100%
Standard Deviation			1.3%
x264 - Bosphorus 1080p (FPS)	99.49	97.94	100.67
Normalized	98.83%	97.29%	100%
Standard Deviation			2.2%
Renaissance - I.M.D.S (ms)	2420	2485	2461
Normalized	100%	97.38%	98.35%
Standard Deviation			1.4%
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	28.48	28.44	29.17
Normalized	97.63%	97.5%	100%
Standard Deviation			2.1%
Renaissance - Rand Forest (ms)	508.9	521.9	521.3
Normalized	100%	97.51%	97.62%
Standard Deviation			2.3%
SVT-AV1 - Preset 12 - Bosphorus 1080p	402.984	394.239	399.772
Normalized	100%	97.83%	99.2%
Standard Deviation			0.9%
TensorFlow Lite - Mobilenet Float (us)	2117	2132	2161
Normalized	100%	99.32%	97.95%
Standard Deviation			0.7%
Renaissance - A.U.C.T (ms)	8594	8679	8510
Normalized	99.02%	98.05%	100%
Standard Deviation			0.5%

yquake2 - OpenGL 3.x - Off - Off - 1920 x 1080 (FPS)	594	583	587.5
Normalized	100%	98.15%	98.91%
Standard Deviation			1.4%
TensorFlow Lite - Inception V4 (us)	42753	42995	43526
Normalized	100%	99.44%	98.22%
Standard Deviation			1%
Stress-NG - G.C.S.F (Bogo Ops/s)	1239374	1246869	1225132
Normalized	99.4%	100%	98.26%
Standard Deviation			0.7%
SVT-HEVC - 1 - Bosphorus 1080p (FPS)	6.89	6.89	6.77
Normalized	100%	100%	98.26%
Standard Deviation			1%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	1.836	1.834	1.805
Normalized	100%	99.89%	98.31%
Standard Deviation			1.2%
TensorFlow Lite - I.R.V (us)	40143	40267	40801
Normalized	100%	99.69%	98.39%
Standard Deviation			0.8%
WebP2 Image Encode - Default (sec)	4.216	4.16	4.151
Normalized	98.46%	99.78%	100%
Standard Deviation			0.5%
TensorFlow Lite - SqueezeNet (us)	3120	3100	3147
Normalized	99.38%	100%	98.53%
Standard Deviation			0.9%
yquake2 - Vulkan - Off - Off - 1920 x 1080 (FPS)	387.5	392.5	389.2
Normalized	98.73%	100%	99.16%
Standard Deviation			0.2%
SVT-VP9 - V.Q.O - Bosphorus 4K (FPS)	45.47	45.47	46.03
Normalized	98.78%	98.78%	100%
Standard Deviation			0.2%
Stress-NG - Malloc (Bogo Ops/s)	5761958	5703148	5771856
Normalized	99.83%	98.81%	100%
Standard Deviation			0.2%
SVT-HEVC - 1 - Bosphorus 4K (FPS)	1.69	1.69	1.67
Normalized	100%	100%	98.82%
Standard Deviation			0.3%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)	12.01	12.15	12.14
Normalized	98.85%	100%	99.92%
Standard Deviation			0.1%
Nettle - sha512 (Mbyte/s)	720.33	712.16	718.68
Normalized	100%	98.87%	99.77%
Standard Deviation			0.6%
Stress-NG - CPU Stress (Bogo Ops/s)	13518	13555	13670
Normalized	98.89%	99.16%	100%
Standard Deviation			0.3%
WebP2 Image Encode - Q.9.C.E.7 (sec)	498.129	500.855	503.608
Normalized	100%	99.46%	98.91%
Standard Deviation			0.2%
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)	162.43	164.16	162.72
Normalized	98.95%	100%	99.12%
Standard Deviation			0.6%

Renaissance - A.S.P (ms)	2676	2672	2648
Normalized	98.96%	99.09%	100%
Standard Deviation			2.5%
Blender - BMW27 - CPU-Only (sec)	176.49		178.32
Normalized	100%		98.97%
Standard Deviation			0.5%
Stress-NG - MEMFD (Bogo Ops/s)	657.04	663.82	661.72
Normalized	98.98%	100%	99.68%
Standard Deviation			0.5%
Stress-NG - Forking (Bogo Ops/s)	65686	65444	65016
Normalized	100%	99.63%	98.98%
Standard Deviation			1.2%
Renaissance - F.H.R (ms)	2166	2178	2188
Normalized	100%	99.48%	98.99%
Standard Deviation			2%
Blender - Fishy Cat - CPU-Only (sec)	248.06		250.52
Normalized	100%		99.02%
Standard Deviation			0.2%
AOM AV1 - Speed 10 Realtime - Bosphorus 1080p (FPS)	219.77	221.81	221.04
Normalized	99.08%	100%	99.65%
Standard Deviation			0.3%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)	169.75	171.26	170.79
Normalized	99.12%	100%	99.73%
Standard Deviation			0.3%
TensorFlow Lite - NASNet Mobile (us)	8563	8639	8577
Normalized	100%	99.13%	99.84%
Standard Deviation			0.3%
Renaissance - ALS Movie Lens (ms)	9186	9113	9127
Normalized	99.21%	100%	99.84%
Standard Deviation			0.9%
Blender - Classroom - CPU-Only (sec)	492.96		496.76
Normalized	100%		99.24%
Standard Deviation			0.2%
Glibc Benchmarks - exp (ns)	6.82069	6.82071	6.87178
Normalized	100%	100%	99.26%
Standard Deviation			2.2%
Stress-NG - NUMA (Bogo Ops/s)	243.96	245.74	245.57
Normalized	99.28%	100%	99.93%
Standard Deviation			0%
WebP2 Image Encode - Q.7.C.E.7 (sec)	236.835	236.641	238.359
Normalized	99.92%	100%	99.28%
Standard Deviation			0.4%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	91.997	92.662	92.069
Normalized	99.28%	100%	99.36%
Standard Deviation			0.3%
yquake2 - S.C.C.L - Off - On - 1920 x 1080 (FPS)	139.5	140.5	139.5
Normalized	99.29%	100%	99.29%
Standard Deviation			0.6%
WebP2 Image Encode - Q.1.L.C (sec)	1077	1078	1084
Normalized	100%	99.93%	99.3%
Standard Deviation			0.1%

TensorFlow Lite - Mobilenet Quant (us)	4586	4561	4554
Normalized	99.31%	99.85%	100%
Standard Deviation			2.3%
simdjson - LargeRand (GB/s)	1.45	1.46	1.45
Normalized	99.32%	100%	99.32%
Standard Deviation			0.4%
7-Zip Compression - Compression Rating (MIPS)	65426	65691	65246
Normalized	99.6%	100%	99.32%
Standard Deviation			0.4%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	25.833	25.711	25.667
Normalized	100%	99.53%	99.36%
Standard Deviation			1.4%
AOM AV1 - Speed 10 Realtime - Bosphorus 4K (FPS)	67.18	67.58	67.40
Normalized	99.41%	100%	99.73%
Standard Deviation			0.3%
yquake2 - OpenGL ES 3.x - Off - Off - 1920 x 1080 (FPS)	588.5	585.2	586.5
Normalized	100%	99.44%	99.66%
Standard Deviation			1.1%
7-Zip Compression - D.R (MIPS)	41209	41225	41005
Normalized	99.96%	100%	99.47%
Standard Deviation			0.5%
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	44.14	44.37	44.19
Normalized	99.48%	100%	99.59%
Standard Deviation			0%
yquake2 - S.C.C.L - Off - Off - 1920 x 1080 (FPS)	139.9	139.6	140.3
Normalized	99.71%	99.5%	100%
Standard Deviation			0.2%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	10.16	10.21	10.20
Normalized	99.51%	100%	99.9%
Standard Deviation			0.1%
yquake2 - Software CPU - Off - On - 1920 x 1080 (FPS)	149	149.4	149.7
Normalized	99.53%	99.8%	100%
Standard Deviation			0.4%
Stress-NG - S.V.M.P (Bogo Ops/s)	8430174	8467632	8433936
Normalized	99.56%	100%	99.6%
Standard Deviation			0.1%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	103.023	103.078	103.480
Normalized	99.56%	99.61%	100%
Standard Deviation			0.7%
WebP2 Image Encode - Q.1.C.E.5 (sec)	6.642	6.615	6.631
Normalized	99.59%	100%	99.76%
Standard Deviation			0.3%
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	153.81	153.63	154.18
Normalized	99.76%	99.64%	100%
Standard Deviation			0.2%
Stress-NG - Memory Copying (Bogo Ops/s)	3310	3319	3308
Normalized	99.72%	100%	99.67%

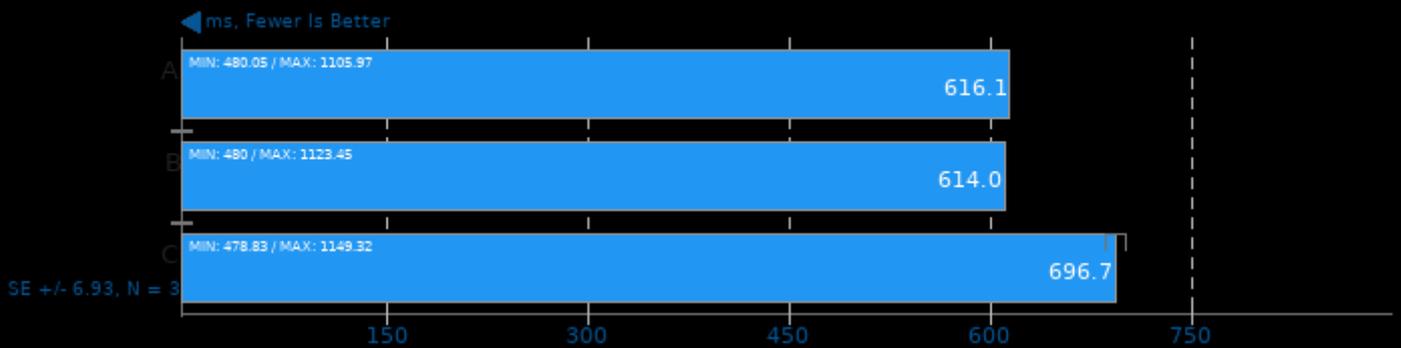
	Standard Deviation		1.8%
Stress-NG - MMAP (Bogo Ops/s)	150.08	150.27	149.80
	Normalized	99.87%	100%
	Standard Deviation		99.69%
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	112.59	112.93	112.78
	Normalized	99.7%	100%
	Standard Deviation		99.87%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	237.62	238.19	237.50
	Normalized	99.76%	100%
	Standard Deviation		0.4%
Stress-NG - G.Q.D.S (Bogo Ops/s)	122.4	122.43	122.09
	Normalized	99.98%	100%
	Standard Deviation		99.72%
x264 - Bosphorus 4K (FPS)	24.08	24.07	24.13
	Normalized	99.79%	99.75%
	Standard Deviation		100%
simdjson - Kostya (GB/s)	4.16	4.17	4.17
	Normalized	99.76%	100%
	Standard Deviation		100%
SVT-AV1 - Preset 10 - Bosphorus 1080p	190.437	190.634	190.883
	Normalized	99.77%	99.87%
	Standard Deviation		100%
yquake2 - OpenGL ES 3.x - Off - On - 1920 x 1080 (FPS)	214.9	215.2	214.7
	Normalized	99.86%	100%
	Standard Deviation		99.77%
yquake2 - Vulkan - Off - On - 1920 x 1080 (FPS)	48.9	49	48.9
	Normalized	99.8%	100%
	Standard Deviation		99.8%
GROMACS - MPI CPU - water_GMX50_bare (Ns/Day)	1.014	1.014	1.012
	Normalized	100%	100%
	Standard Deviation		99.8%
simdjson - PartialTweets (GB/s)	5.38	5.39	5.39
	Normalized	99.81%	100%
	Standard Deviation		100%
Stress-NG - Semaphores (Bogo Ops/s)	1091848	1093772	1093874
	Normalized	99.81%	99.99%
	Standard Deviation		100%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	5.42	5.43	5.43
	Normalized	99.82%	100%
	Standard Deviation		100%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)	30.09	30.13	30.08
	Normalized	99.87%	100%
	Standard Deviation		99.83%
simdjson - TopTweet (GB/s)	6.32	6.33	6.33
	Normalized	99.84%	100%
	Standard Deviation		100%
yquake2 - OpenGL 3.x - Off - On - 1920 x 1080 (FPS)	214.6	214.9	214.6
	Normalized	99.86%	100%
	Standard Deviation		99.86%

	Standard Deviation		0.2%
Glibc Benchmarks - cos (ns)	33.1306	33.1051	33.0875
	Normalized	99.87%	99.95%
	Standard Deviation		100%
Stress-NG - x86_64 RdRand (Bogo Ops/s)	81908	81980	82010
	Normalized	99.87%	99.96%
	Standard Deviation		100%
Stress-NG - Matrix Math (Bogo Ops/s)	44862	44862	44807
	Normalized	100%	100%
	Standard Deviation		99.88%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	5.844	5.849	5.851
	Normalized	99.88%	99.97%
	Standard Deviation		100%
Stress-NG - Vector Math (Bogo Ops/s)	41506	41494	41460
	Normalized	100%	99.97%
	Standard Deviation		99.89%
Stress-NG - Crypto (Bogo Ops/s)	10644	10654	10654
	Normalized	99.9%	100%
	Standard Deviation		100%
Etcpak - Multi-Threaded - ETC2 (Mpx/s)	1709	1709	1708
	Normalized	100%	100%
	Standard Deviation		99.91%
Etcpak - Single-Threaded - ETC2 (Mpx/s)	271.801	271.609	271.699
	Normalized	100%	99.93%
	Standard Deviation		99.96%
SVT-HEVC - 10 - Bosphorus 4K (FPS)	73.39	73.38	73.43
	Normalized	99.95%	99.93%
	Standard Deviation		100%
yquake2 - Software CPU - Off - Off - 1920 x 1080 (FPS)	149.7	149.6	149.6
	Normalized	100%	99.93%
	Standard Deviation		99.93%
Nettle - chacha (Mbyte/s)	1390	1390	1390
	Normalized	99.95%	99.99%
	Standard Deviation		100%
Glibc Benchmarks - sincos (ns)	19.1924	19.1904	19.1996
	Normalized	99.99%	100%
	Standard Deviation		99.95%
Nettle - poly1305-aes (Mbyte/s)	4337	4337	4335
	Normalized	100%	100%
	Standard Deviation		99.95%
Glibc Benchmarks - sinh (ns)	10.5243	10.5211	10.5256
	Normalized	99.97%	100%
	Standard Deviation		99.96%
Glibc Benchmarks - log2 (ns)	10.2216	10.2217	10.2257
	Normalized	100%	100%
	Standard Deviation		99.96%
Glibc Benchmarks - sin (ns)	28.3394	28.3437	28.3494
	Normalized	100%	99.98%
	Standard Deviation		99.96%
Glibc Benchmarks - modf (ns)	3.22653	3.22692	3.22590
	Normalized	99.98%	99.97%
	Standard Deviation		100%
Glibc Benchmarks - atanh (ns)	16.5519	16.551	16.5557
	Normalized	99.99%	100%
	Standard Deviation		99.97%

	Standard Deviation		0%
Glibc Benchmarks - pthread_once (ns)	1.54344	1.54384	1.54352
	Normalized	100%	99.97%
	Standard Deviation		99.99%
	Standard Deviation		0%
Glibc Benchmarks - asinh (ns)	13.0099	13.0113	13.0130
	Normalized	100%	99.99%
	Standard Deviation		99.98%
	Standard Deviation		0%
Nettle - aes256 (Mbyte/s)	10501	10503	10501
	Normalized	99.99%	100%
	Standard Deviation		99.99%
	Standard Deviation		0%
Glibc Benchmarks - tanh (ns)	16.5682	16.5688	16.5699
	Normalized	100%	100%
	Standard Deviation		99.99%
	Standard Deviation		0%
Glibc Benchmarks - ffs (ns)	2.86048	2.86068	2.86077
	Normalized	100%	99.99%
	Standard Deviation		99.99%
	Standard Deviation		0%
Glibc Benchmarks - ffsll (ns)	2.86053	2.86041	2.86063
	Normalized	100%	100%
	Standard Deviation		99.99%
	Standard Deviation		0%
Glibc Benchmarks - sqrt (ns)	3.19008	3.19002	3.19014
	Normalized	100%	100%
	Standard Deviation		100%
	Standard Deviation		0%
Blender - Pabellon Barcelona - CPU-Only	633.75		
Blender - Barbershop - CPU-Only (sec)	1944		
AOM AV1 - Speed 0 Two-Pass - Bosphorus	0.46	0.46	0.46
1080p (FPS)			
	Standard Deviation		0%
AOM AV1 - Speed 0 Two-Pass - Bosphorus	0.15	0.15	0.15
4K (FPS)			
	Standard Deviation		0%
simdjson - DistinctUserID (GB/s)	6.58	6.58	6.58
	Standard Deviation		0.2%
Stress-NG - Context Switching (Bogo Ops/s)	2289286	1963106	2162585
	Normalized	100%	85.75%
	Standard Deviation		94.47%
	Standard Deviation		6.9%
Stress-NG - Socket Activity (Bogo Ops/s)	11324	11311	9516
	Normalized	100%	99.89%
	Standard Deviation		84.04%
	Standard Deviation		10.4%
Stress-NG - CPU Cache (Bogo Ops/s)	88.3	120.53	98.47
	Normalized	73.26%	100%
	Standard Deviation		81.7%
	Standard Deviation		7.1%
Stress-NG - Atomic (Bogo Ops/s)	192012	214112	192354
	Normalized	89.68%	100%
	Standard Deviation		89.84%
	Standard Deviation		7.5%
Stress-NG - Futex (Bogo Ops/s)	1615806	1627240	1751154
	Normalized	92.27%	92.92%
	Standard Deviation		100%
	Standard Deviation		13.9%
Renaissance - Savina Reactors.IO (ms)	6175	7067	6139
	Normalized	99.42%	86.88%
	Standard Deviation		100%
	Standard Deviation		6.5%
Renaissance - Apache Spark Bayes (ms)	1453	1417	1456
	Normalized	97.52%	100%
	Standard Deviation		97.31%
	Standard Deviation		6%

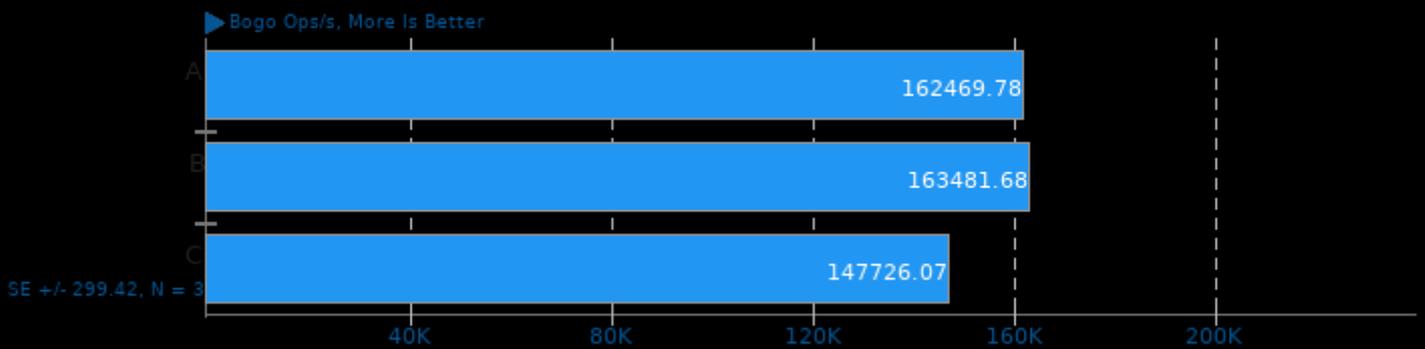
Renaissance 0.14

Test: Scala Dotty



Stress-NG 0.14

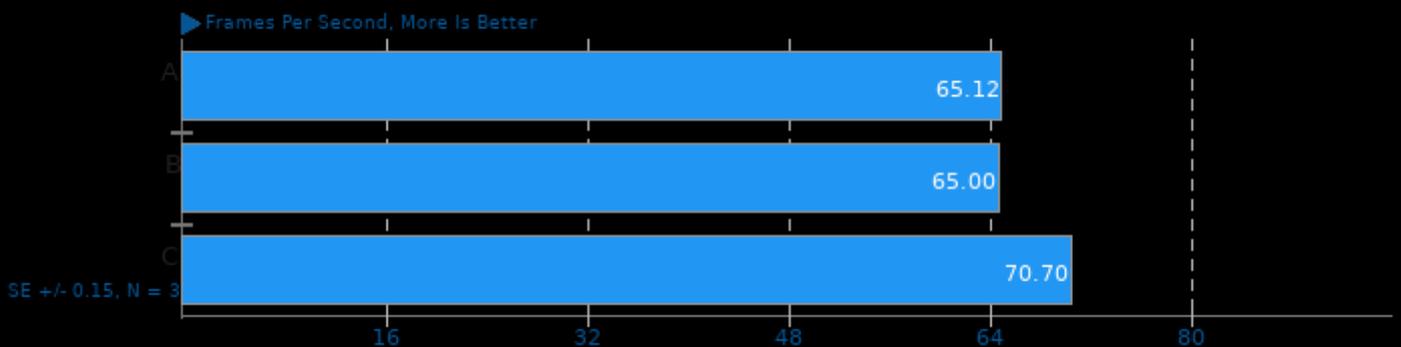
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

SVT-AV1 1.0

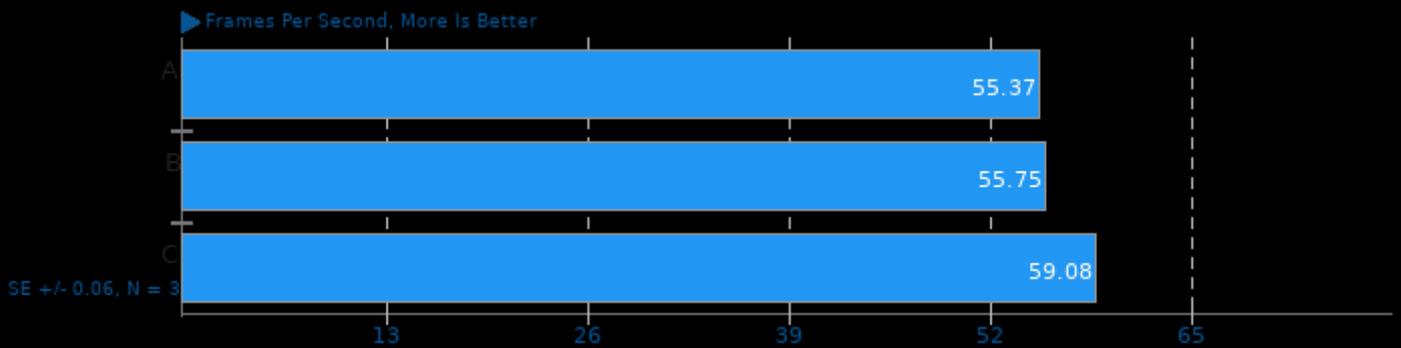
Encoder Mode: Preset 10 - Input: Bosphorus 4K



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-VP9 0.3

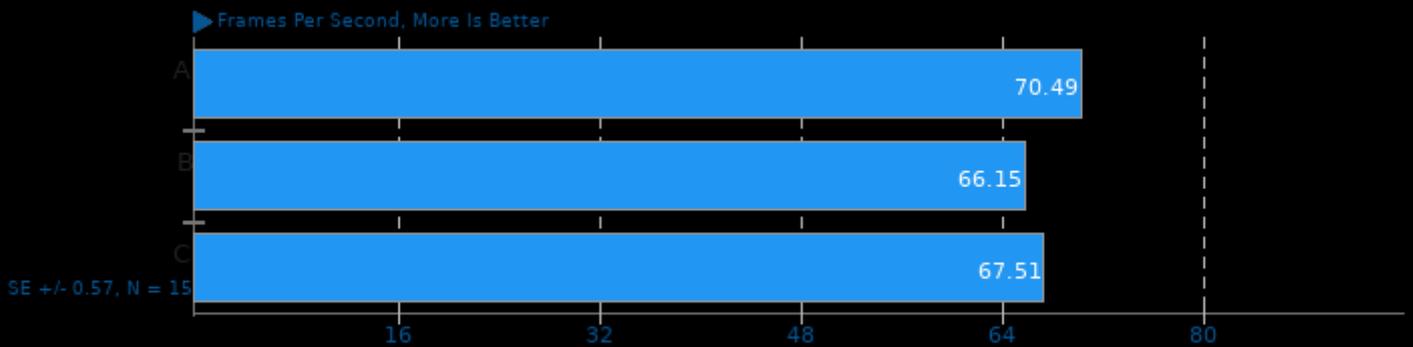
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 4K



1. (C) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

AOM AV1 3.4

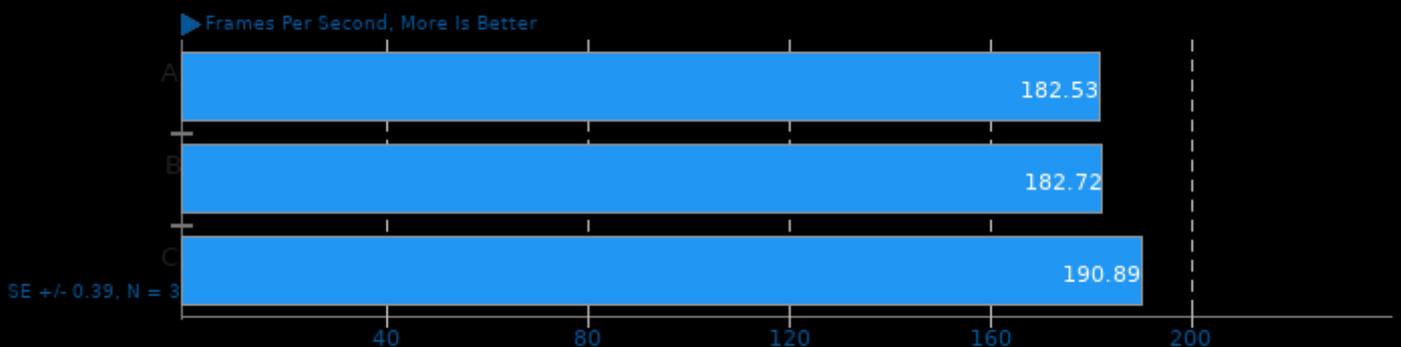
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

SVT-VP9 0.3

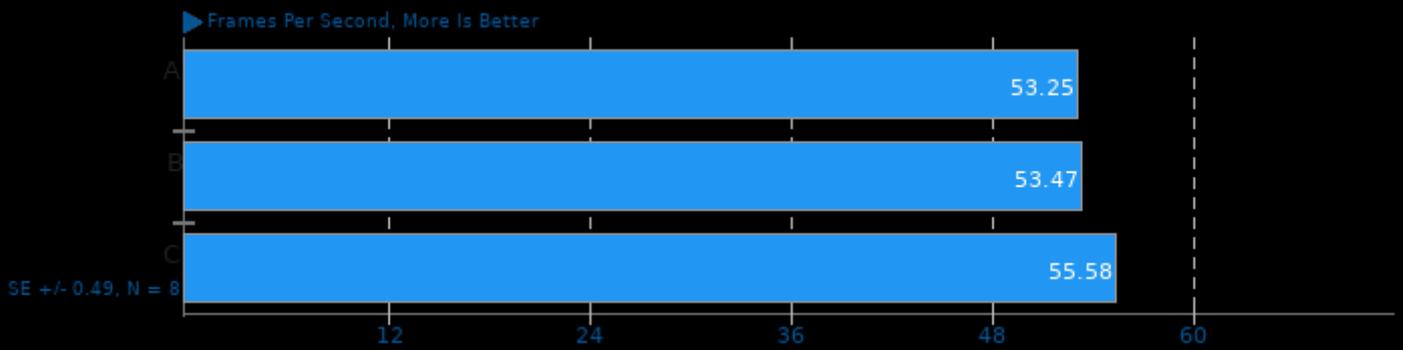
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p



1. (C) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

SVT-VP9 0.3

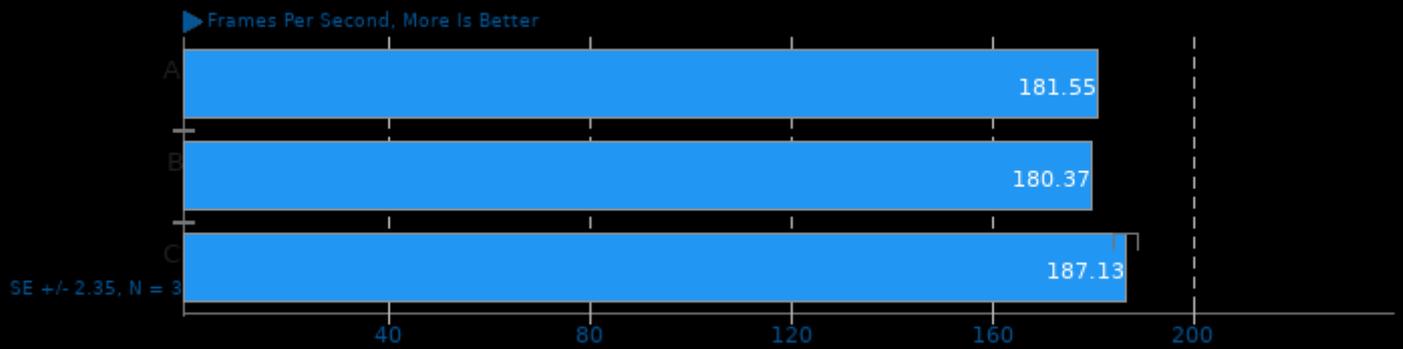
Tuning: VMAF Optimized - Input: Bosphorus 4K



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

SVT-VP9 0.3

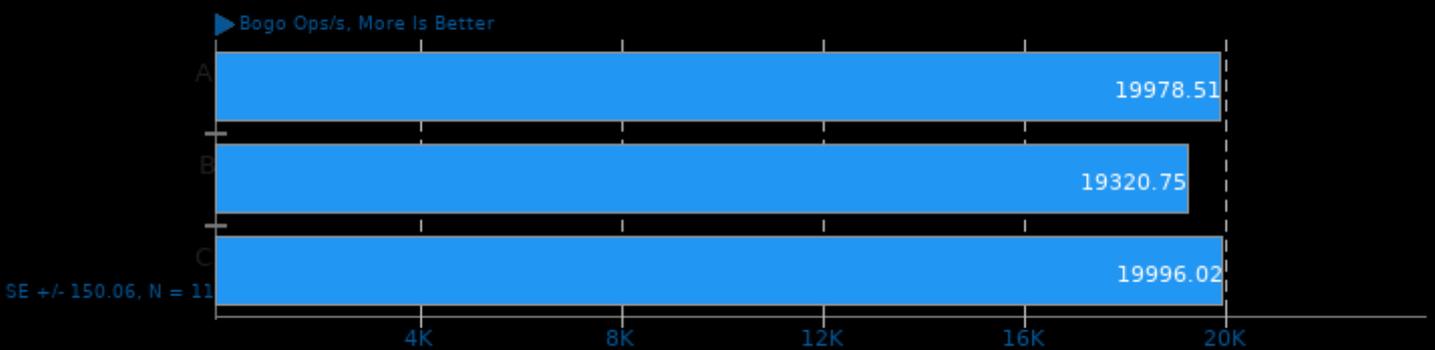
Tuning: VMAF Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

Stress-NG 0.14

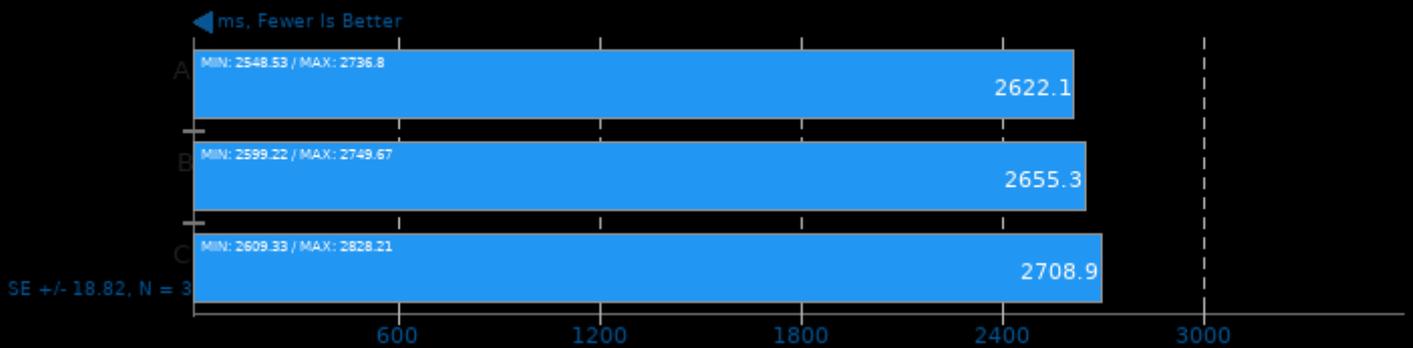
Test: IO_uring



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

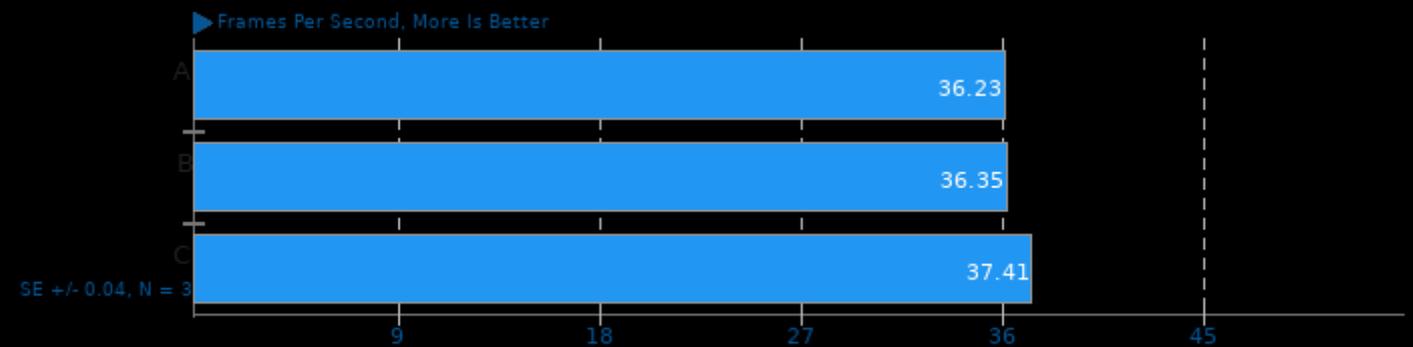
Renaissance 0.14

Test: Apache Spark ALS



SVT-HEVC 1.5.0

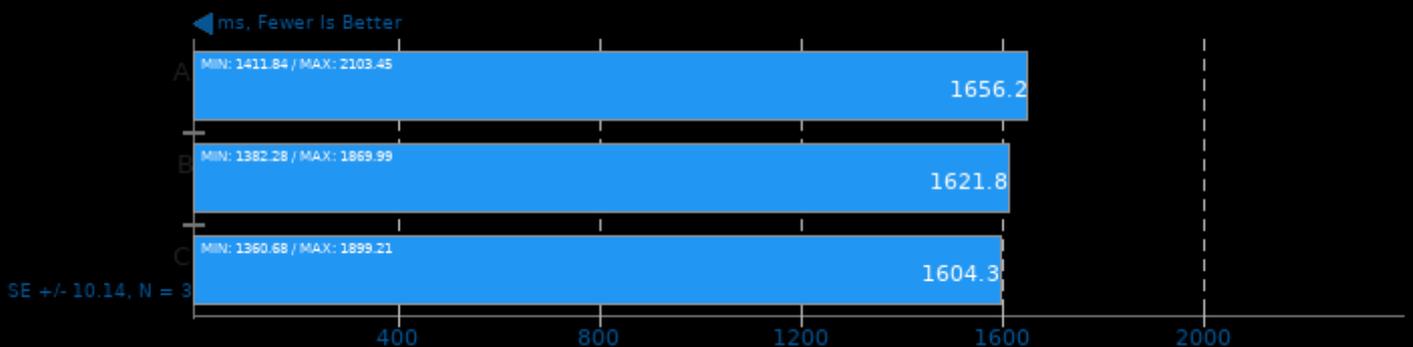
Tuning: 7 - Input: Bosphorus 4K



1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lthread -lrt

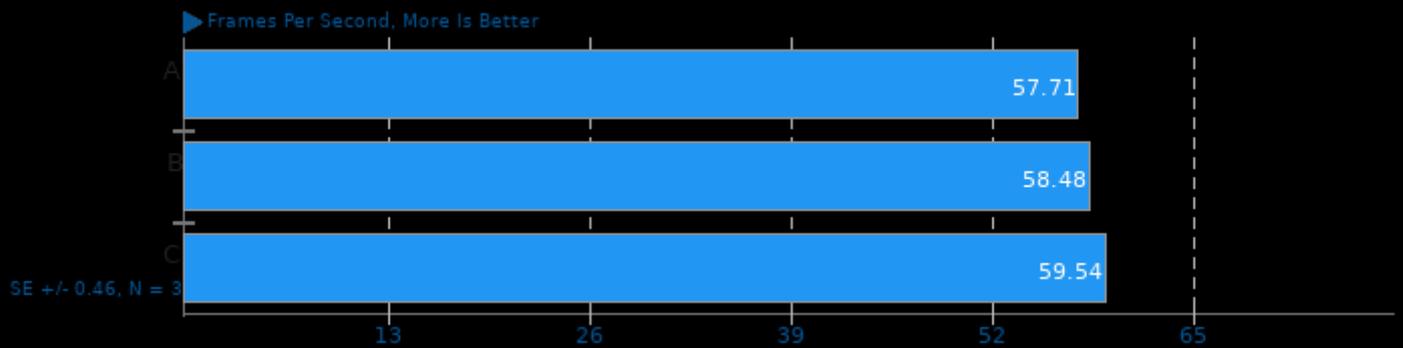
Renaissance 0.14

Test: Genetic Algorithm Using Jenetics + Futures



AOM AV1 3.4

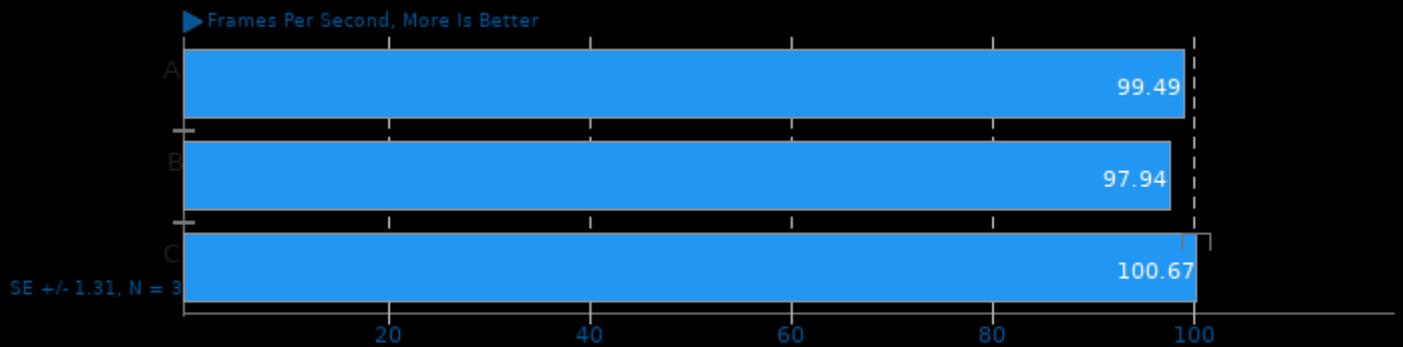
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

x264 2022-02-22

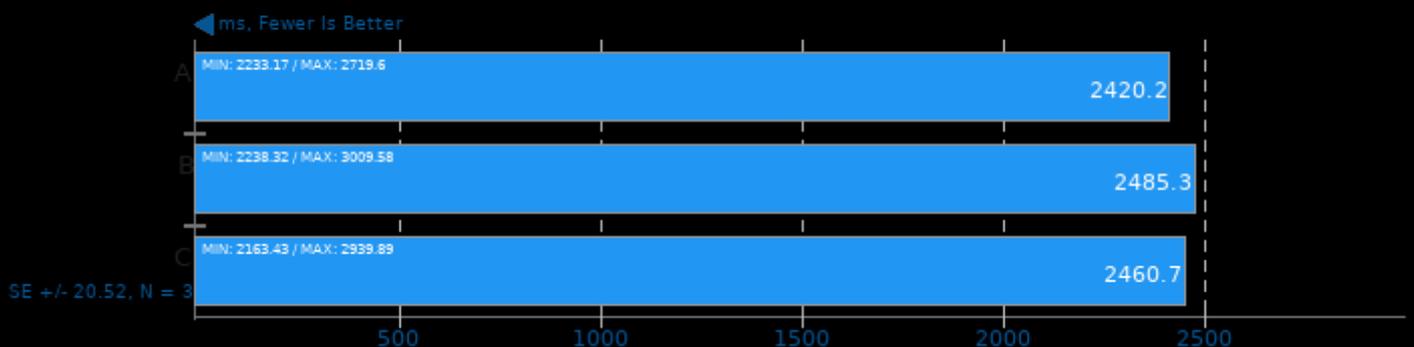
Video Input: Bosphorus 1080p



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -fno

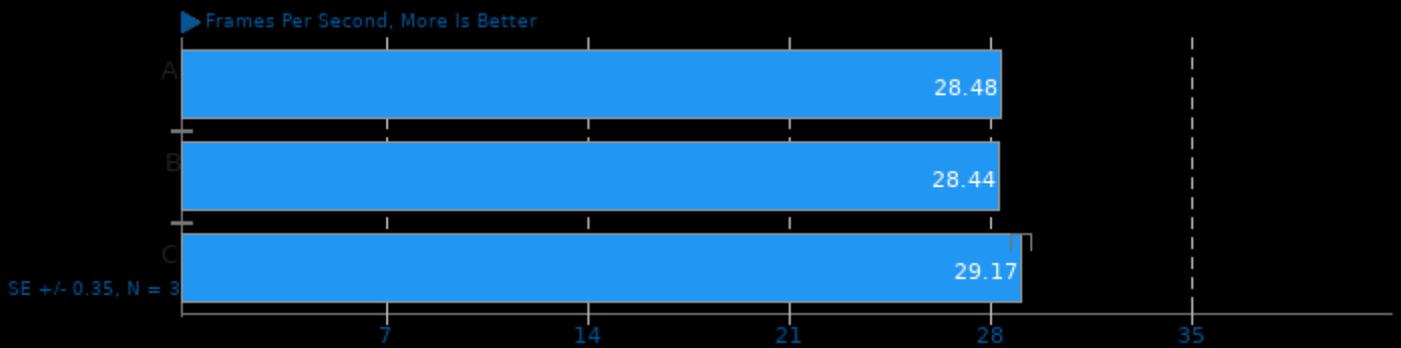
Renaissance 0.14

Test: In-Memory Database Shootout



AOM AV1 3.4

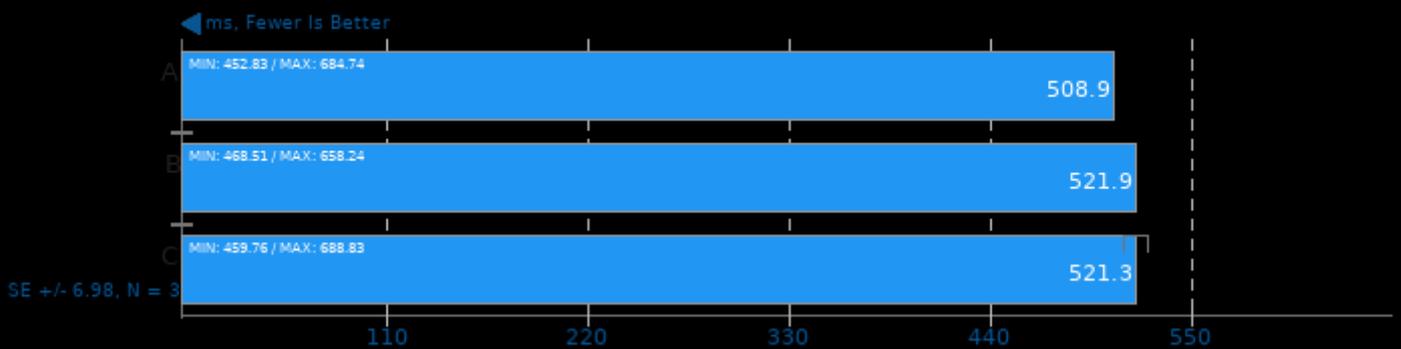
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

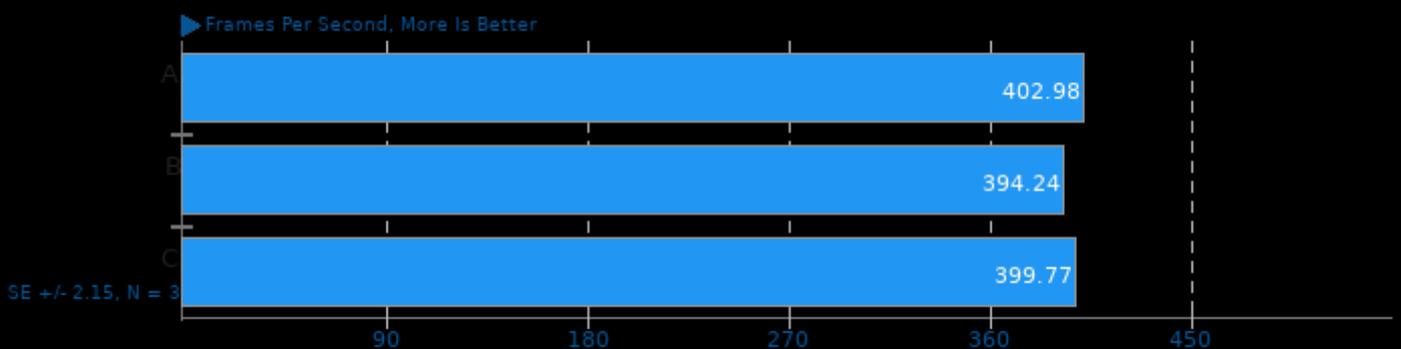
Renaissance 0.14

Test: Random Forest



SVT-AV1 1.0

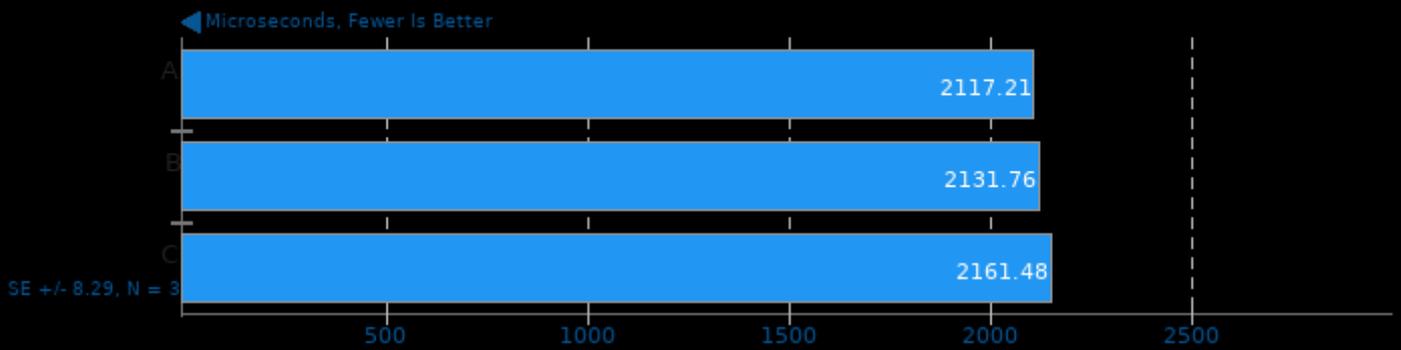
Encoder Mode: Preset 12 - Input: Bosphorus 1080p



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

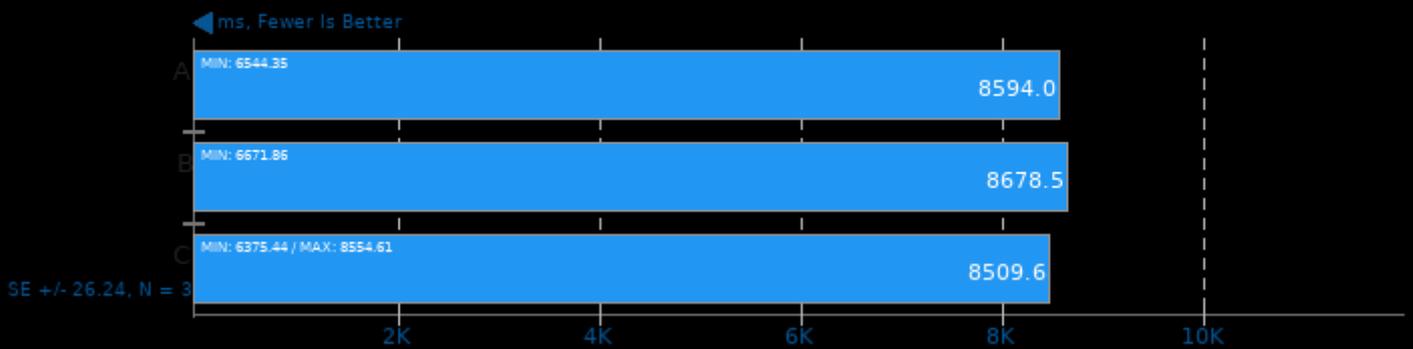
TensorFlow Lite 2022-05-18

Model: Mobilenet Float



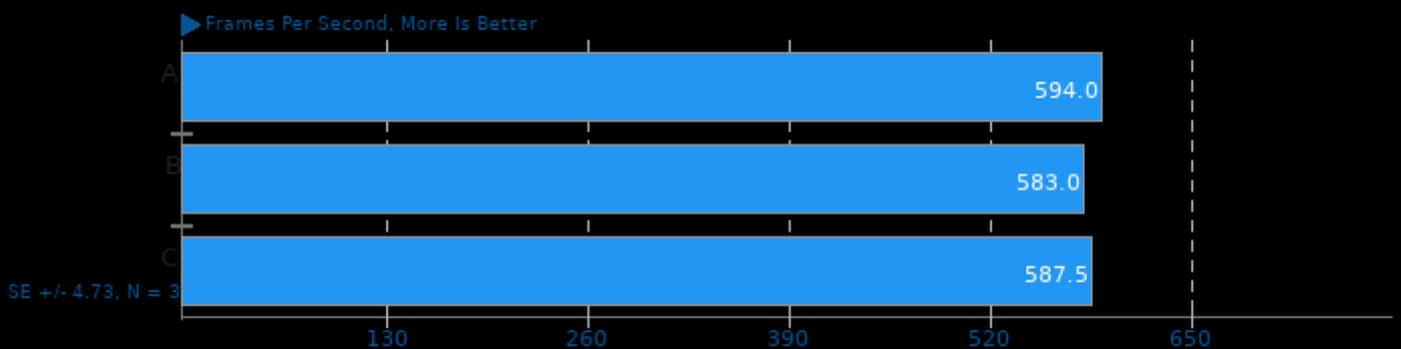
Renaissance 0.14

Test: Akka Unbalanced Cobwebbed Tree



yquake2 8.10

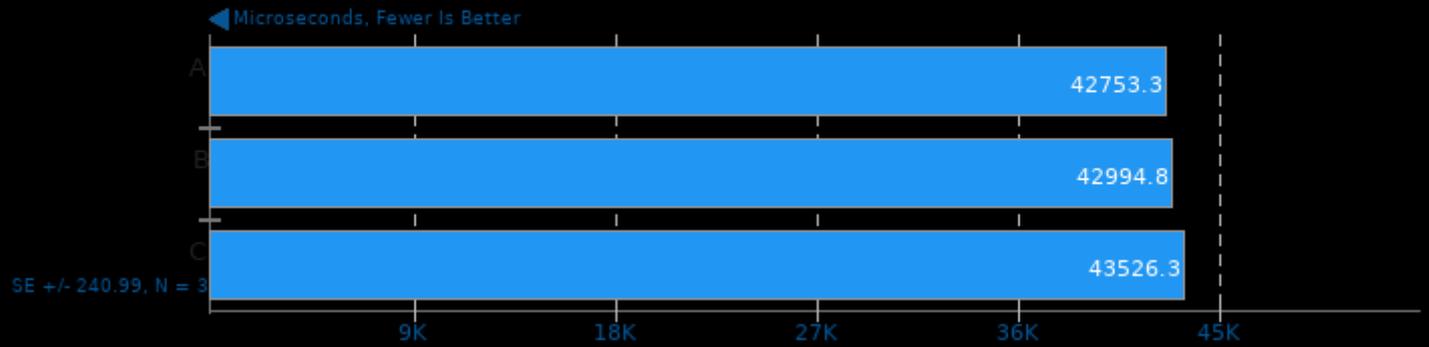
Renderer: OpenGL 3.x - AF: Off - MSAA: Off - Resolution: 1920 x 1080



1. (CC) gcc options: -shared -lm -ldl -rdynamic -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvvisibility=hidden -MMD -mt

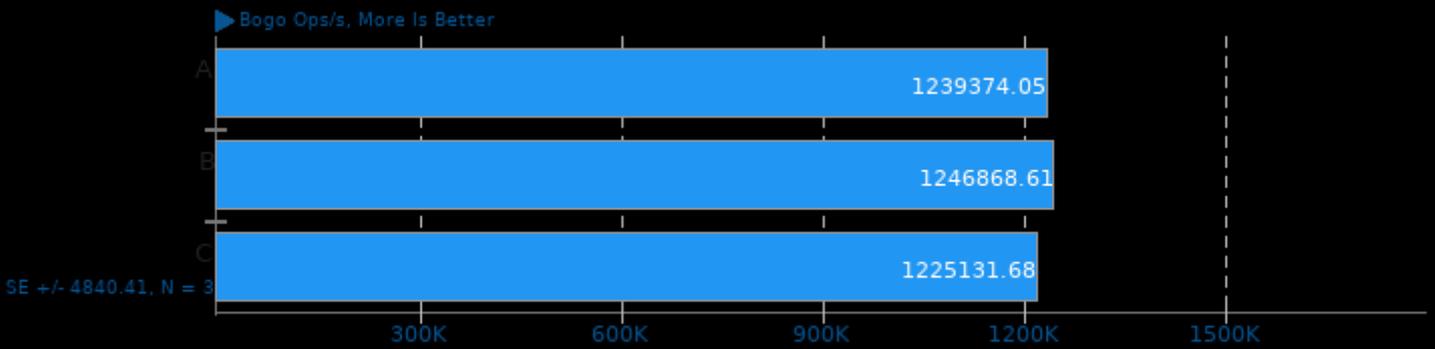
TensorFlow Lite 2022-05-18

Model: Inception V4



Stress-NG 0.14

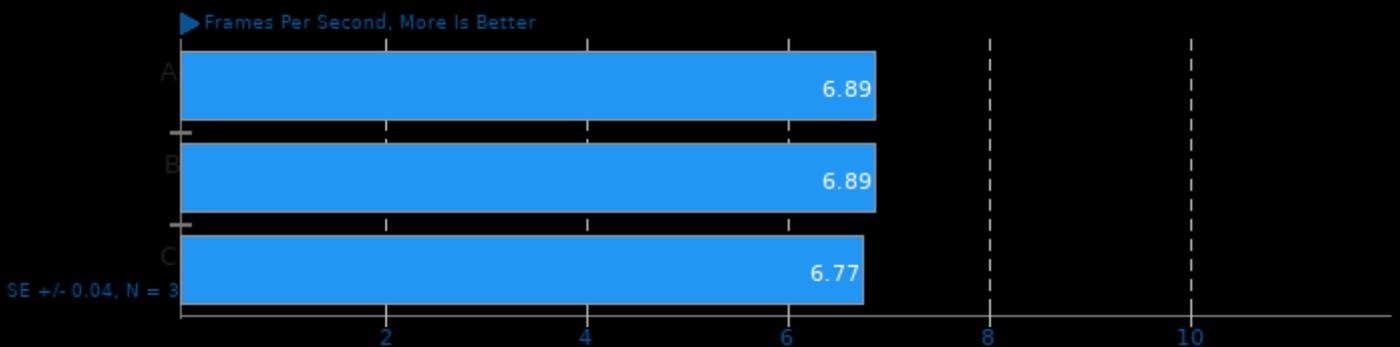
Test: Glibc C String Functions



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

SVT-HEVC 1.5.0

Tuning: 1 - Input: Bosphorus 1080p

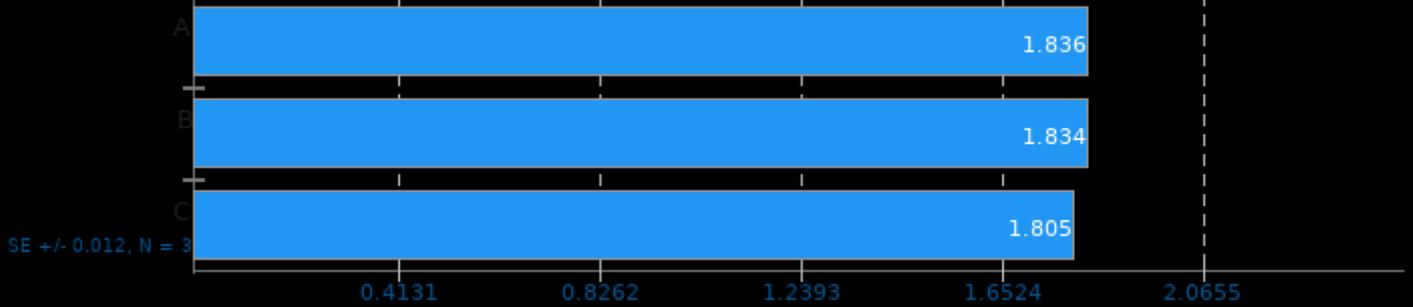


1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -pthread -lrt

SVT-AV1 1.0

Encoder Mode: Preset 4 - Input: Bosphorus 4K

▶ Frames Per Second, More Is Better



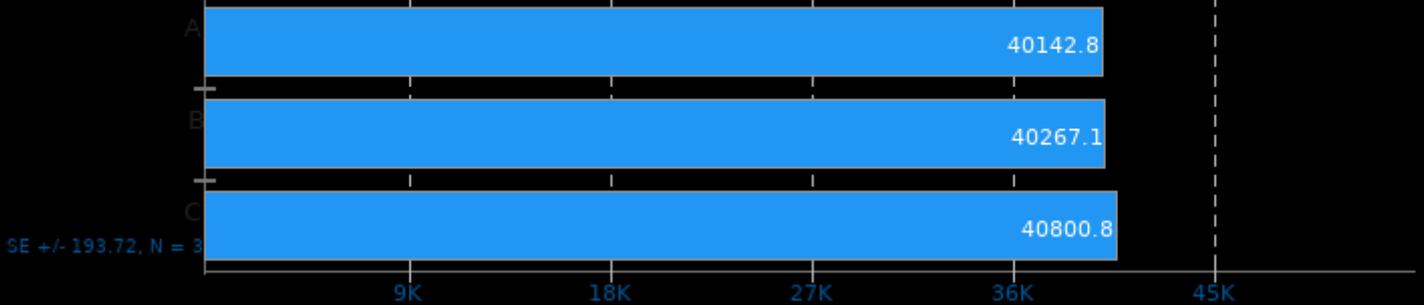
SE +/- 0.012, N = 3

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

TensorFlow Lite 2022-05-18

Model: Inception ResNet V2

◀ Microseconds, Fewer Is Better

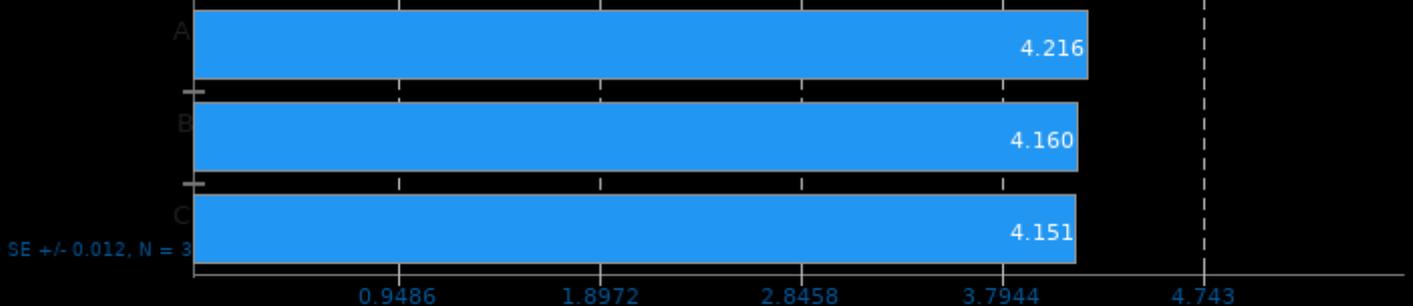


SE +/- 193.72, N = 3

WebP2 Image Encode 20220422

Encode Settings: Default

◀ Seconds, Fewer Is Better

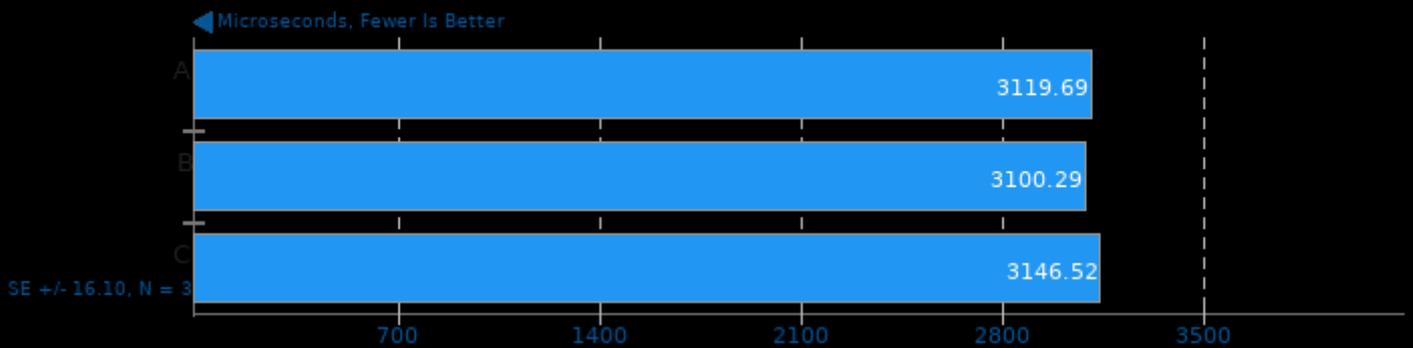


SE +/- 0.012, N = 3

1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -ldl

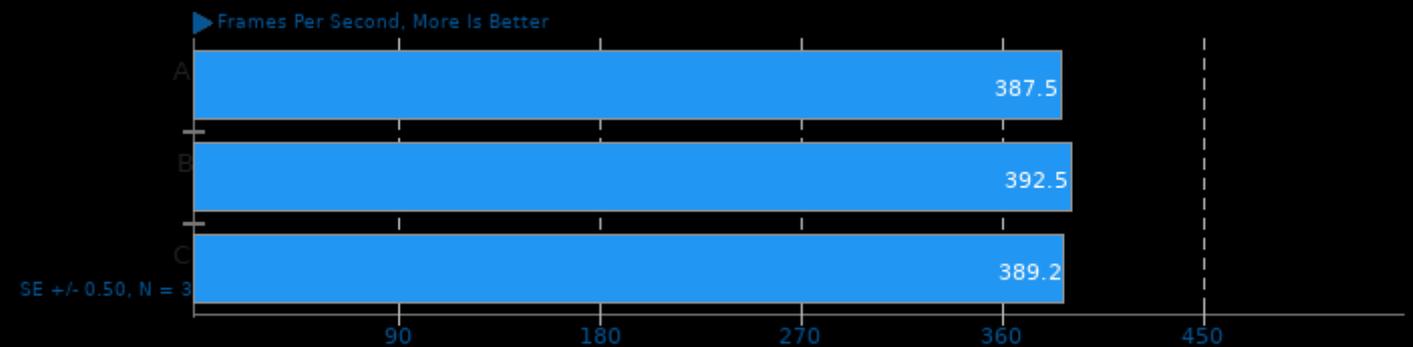
TensorFlow Lite 2022-05-18

Model: SqueezeNet



yquake2 8.10

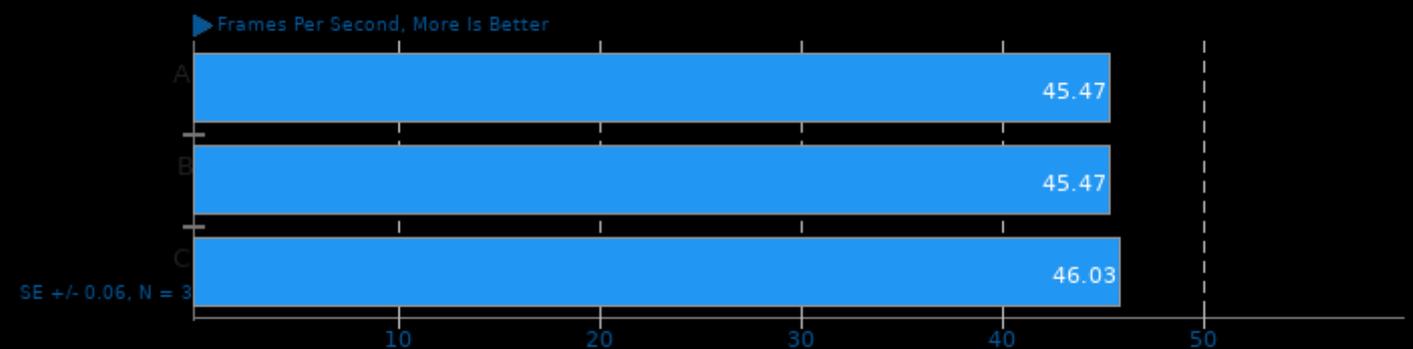
Renderer: Vulkan - AF: Off - MSAA: Off - Resolution: 1920 x 1080



1. (CC) gcc options: -shared -lm -ldl -rdynamic -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfr

SVT-VP9 0.3

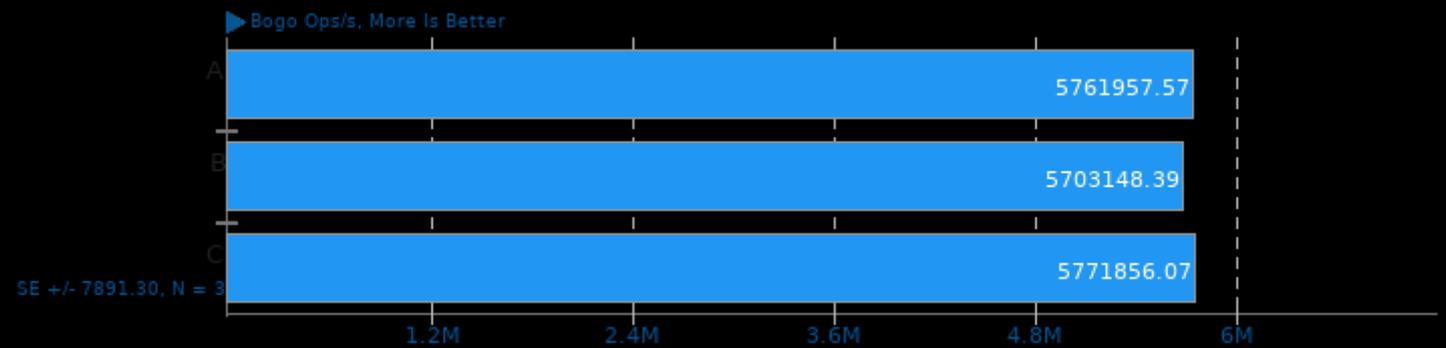
Tuning: Visual Quality Optimized - Input: Bosphorus 4K



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

Stress-NG 0.14

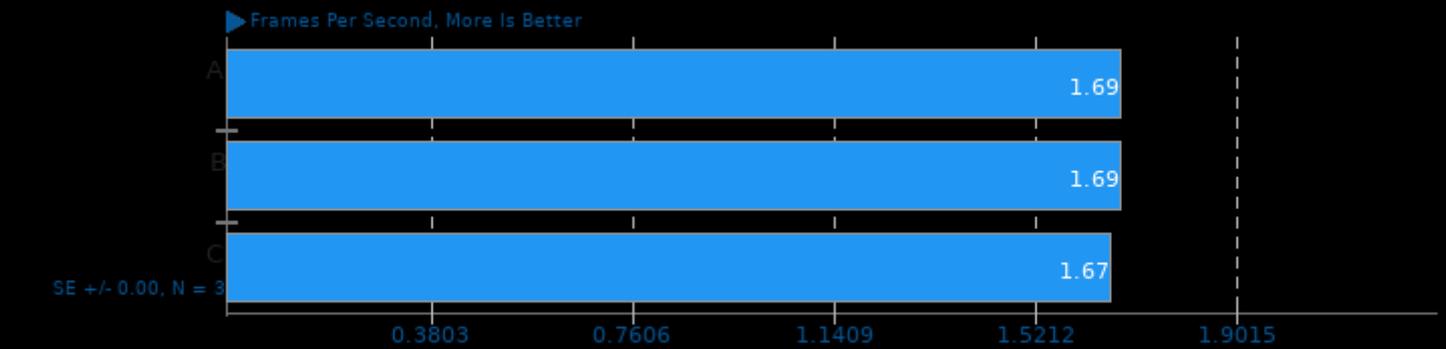
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

SVT-HEVC 1.5.0

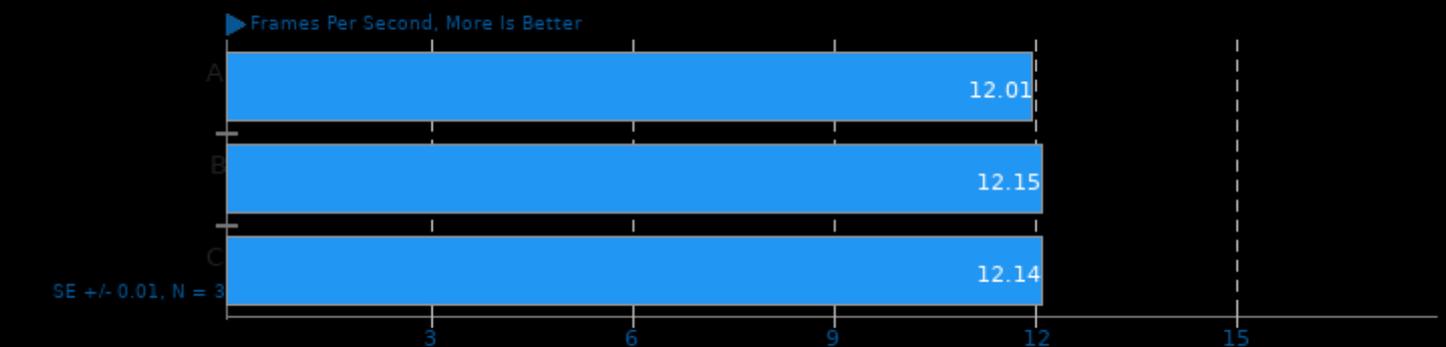
Tuning: 1 - Input: Bosphorus 4K



1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

AOM AV1 3.4

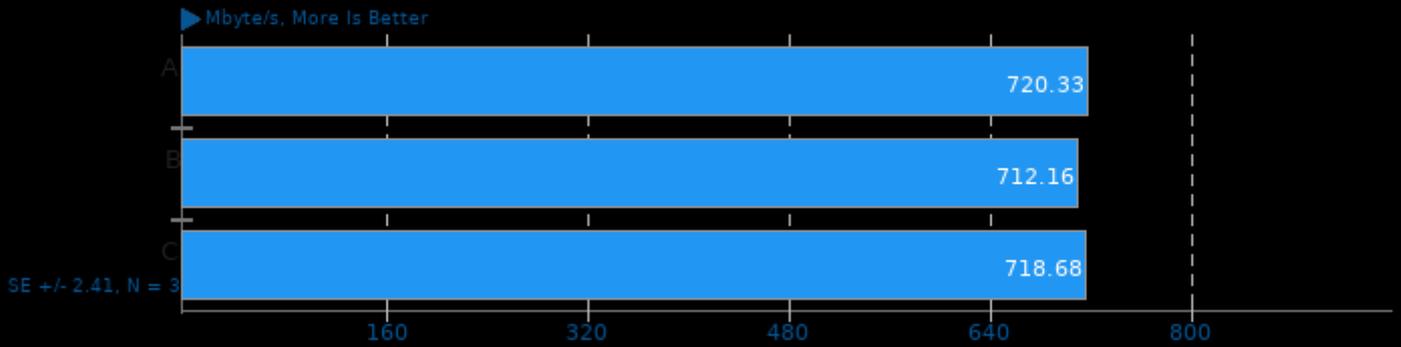
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

Nettle 3.8

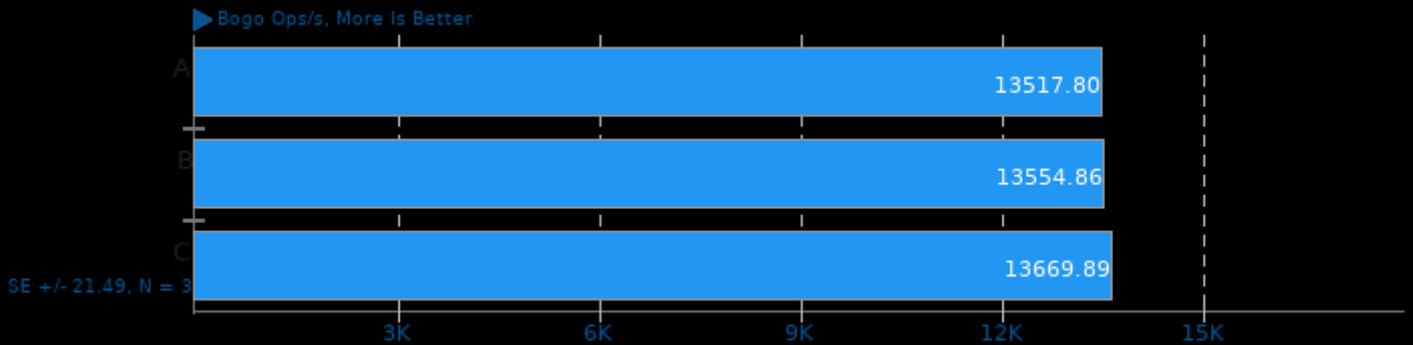
Test: sha512



1. (CC) gcc options: -O2 -ggdb3 -Inettle -lm -lcrypto

Stress-NG 0.14

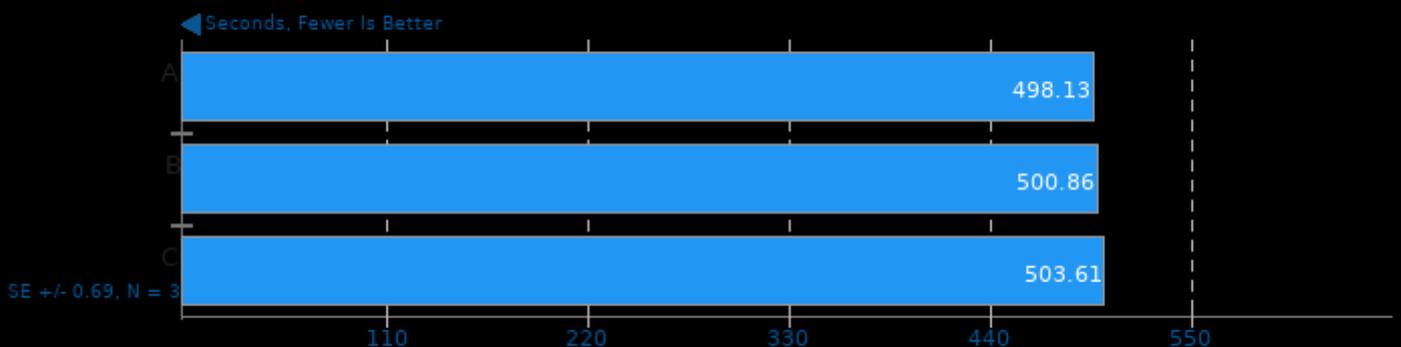
Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsectp -lz -pthread

WebP2 Image Encode 20220422

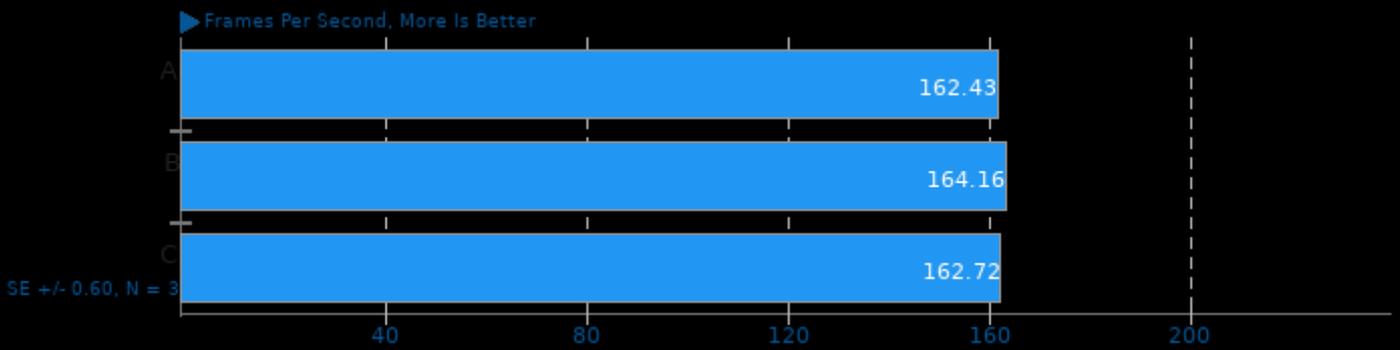
Encode Settings: Quality 95, Compression Effort 7



1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -ldl

AOM AV1 3.4

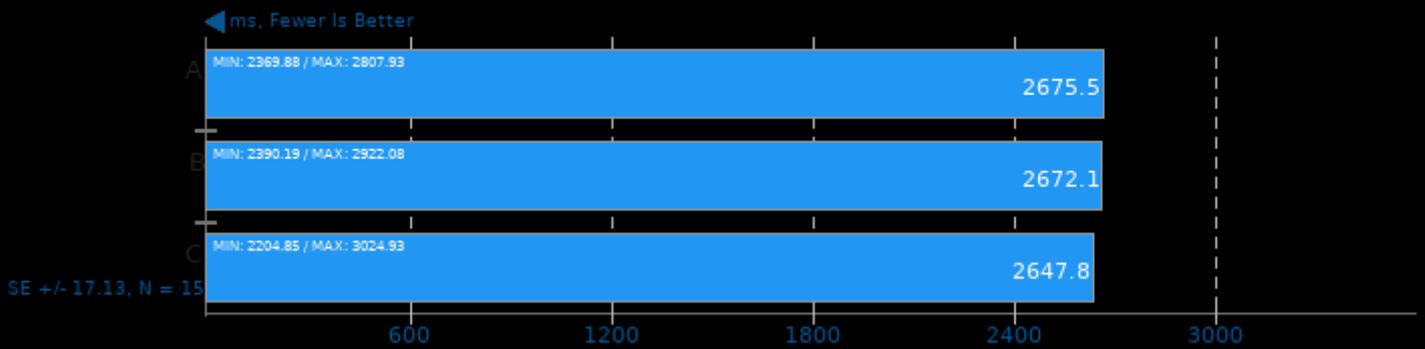
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

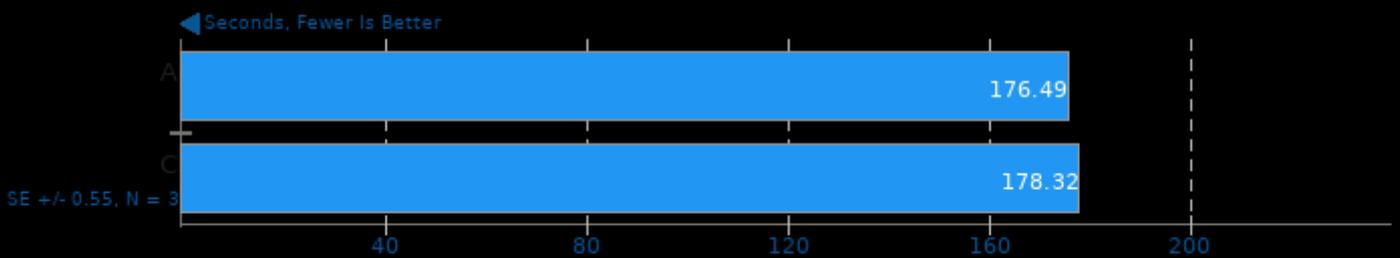
Renaissance 0.14

Test: Apache Spark PageRank



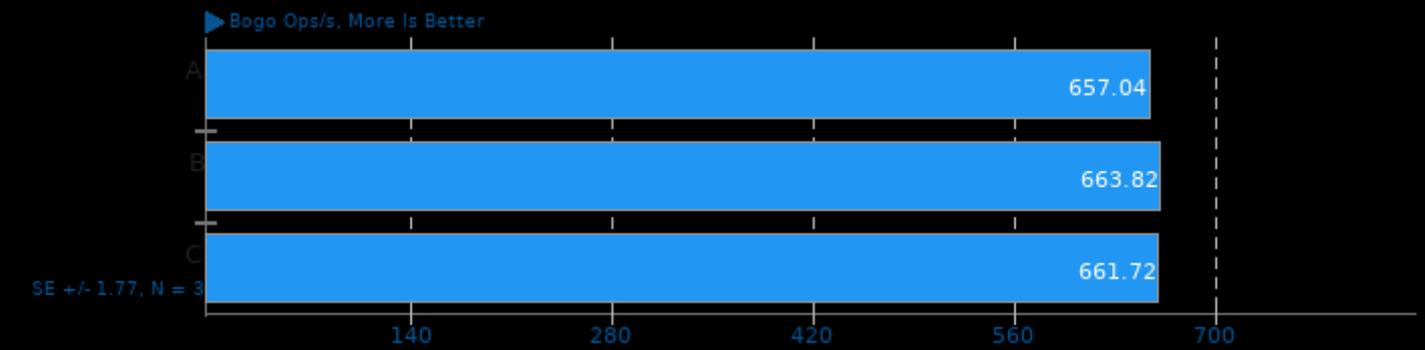
Blender 3.2

Blend File: BMW27 - Compute: CPU-Only



Stress-NG 0.14

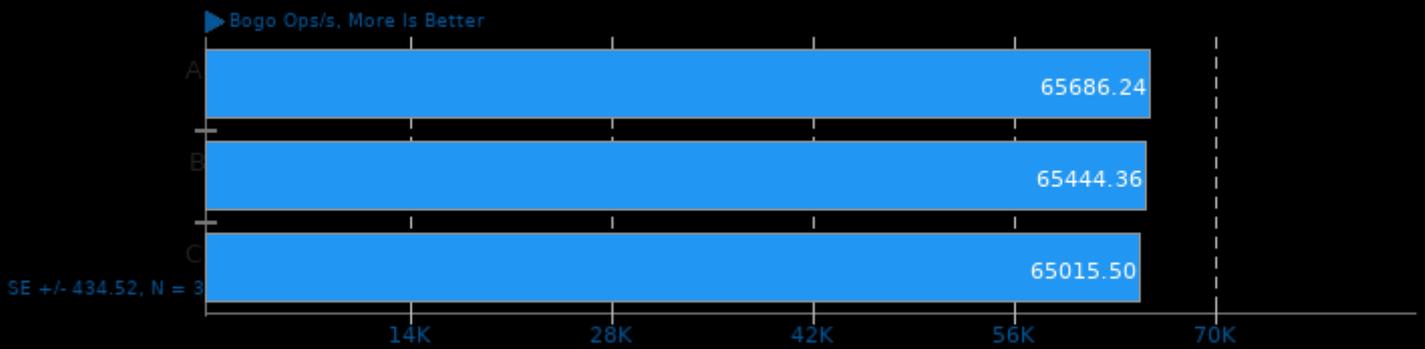
Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

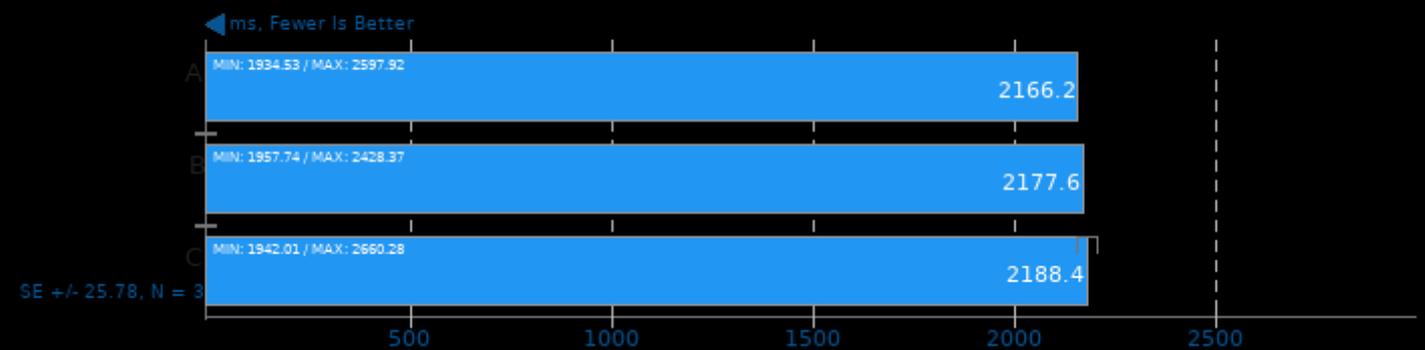
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

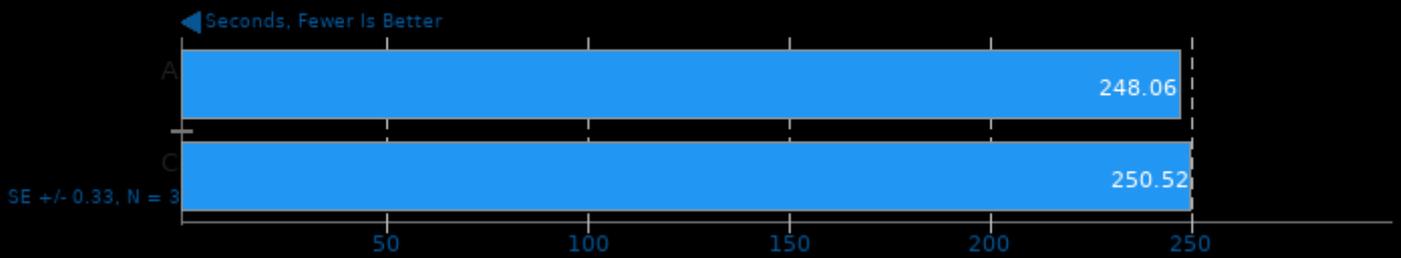
Renaissance 0.14

Test: Finagle HTTP Requests



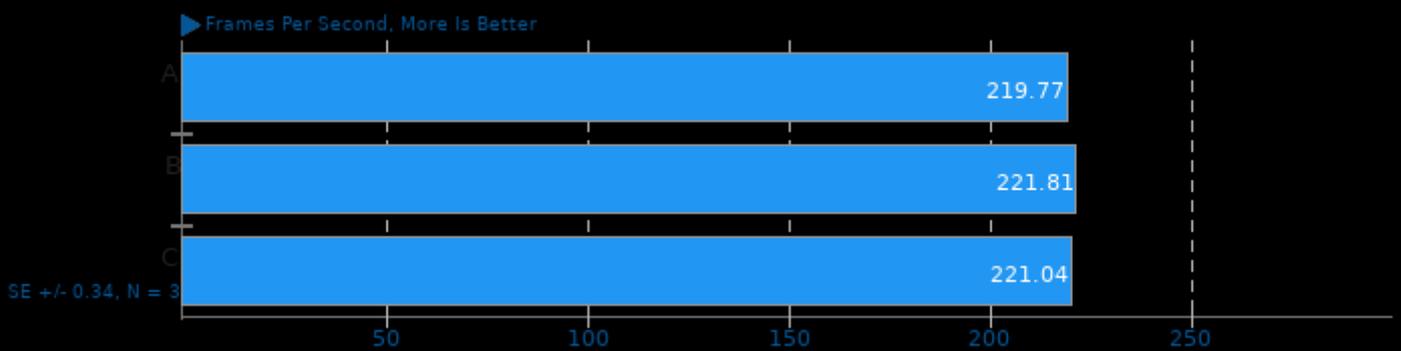
Blender 3.2

Blend File: Fishy Cat - Compute: CPU-Only



AOM AV1 3.4

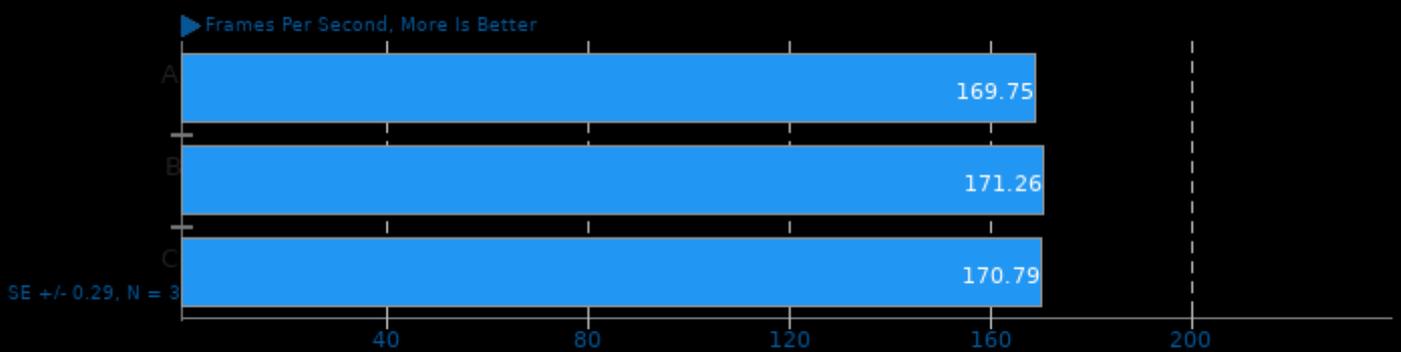
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.4

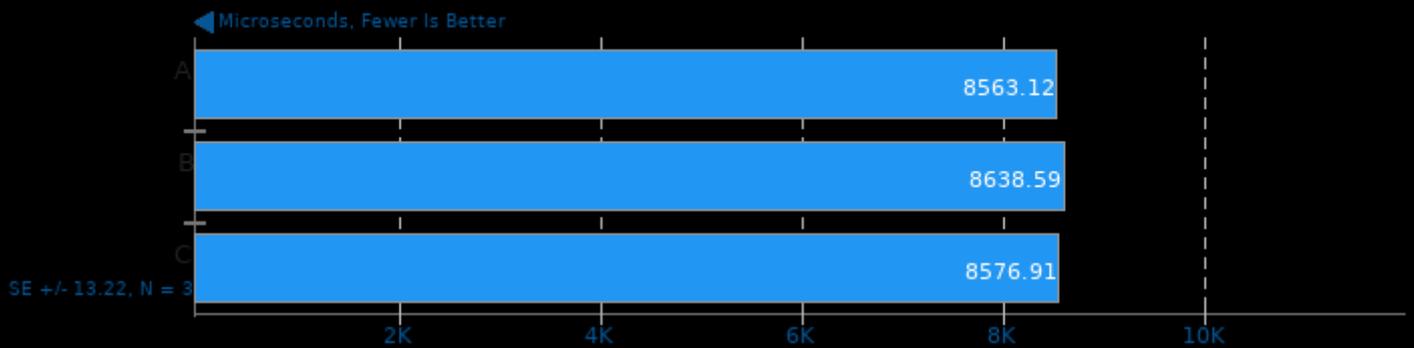
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

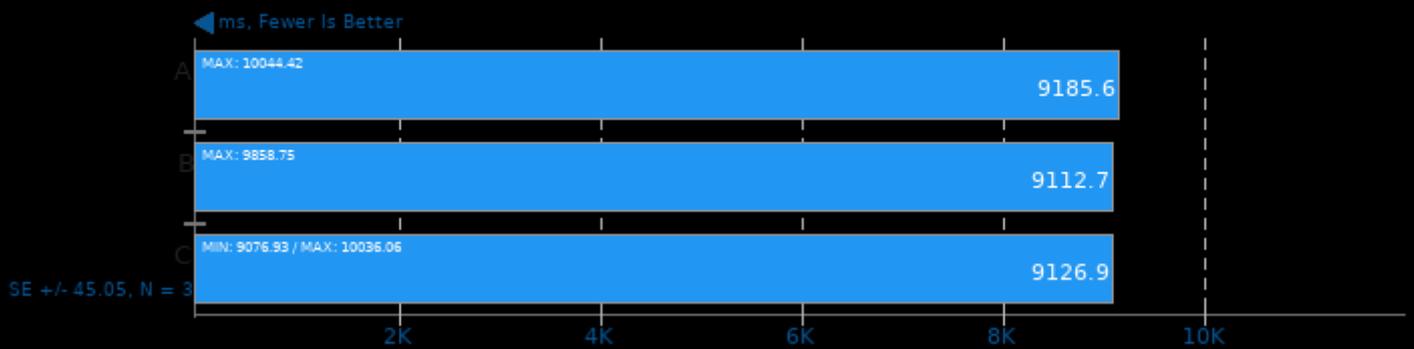
TensorFlow Lite 2022-05-18

Model: NASNet Mobile



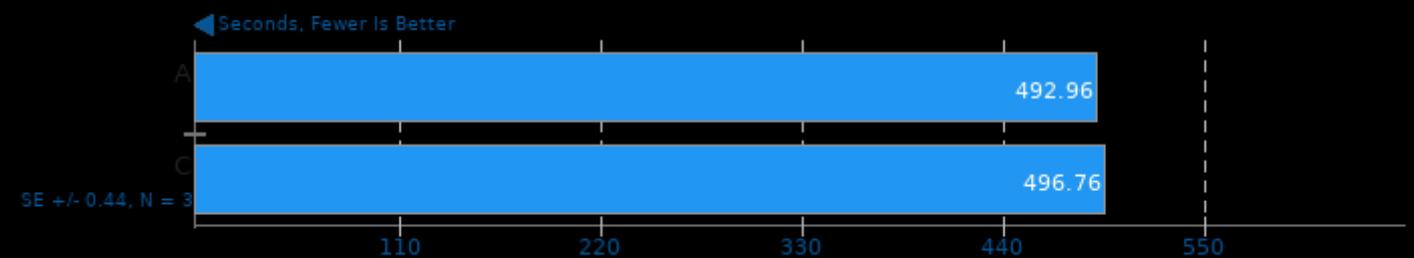
Renaissance 0.14

Test: ALS Movie Lens



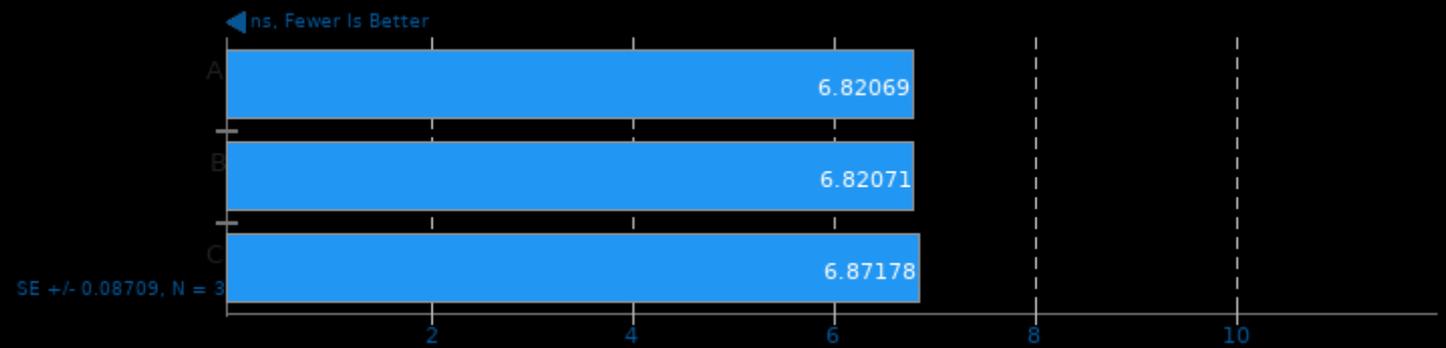
Blender 3.2

Blend File: Classroom - Compute: CPU-Only



Glibc Benchmarks

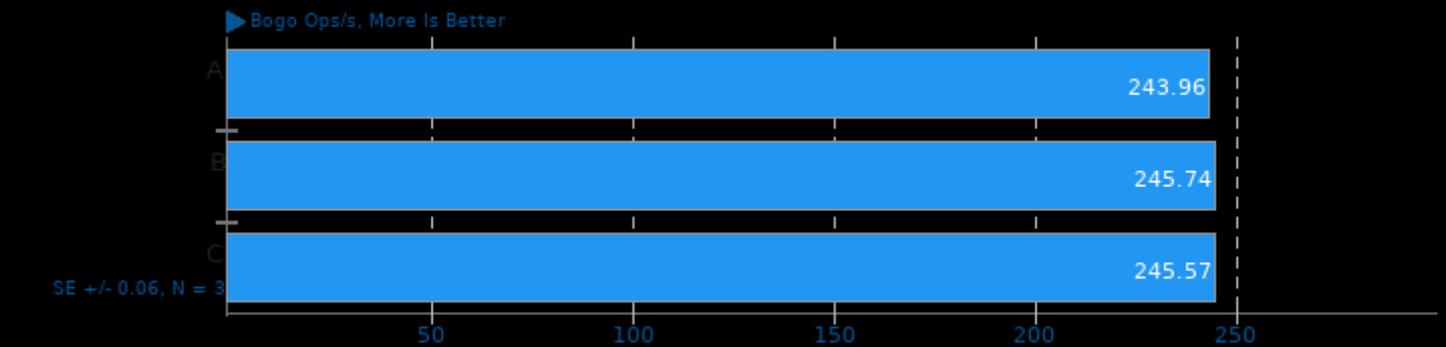
Benchmark: exp



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Stress-NG 0.14

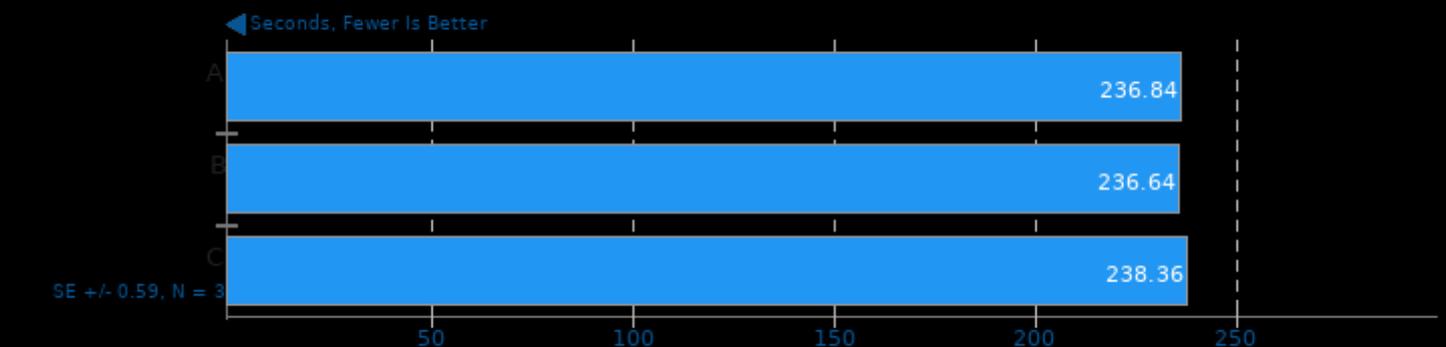
Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsectp -lz -pthread

WebP2 Image Encode 20220422

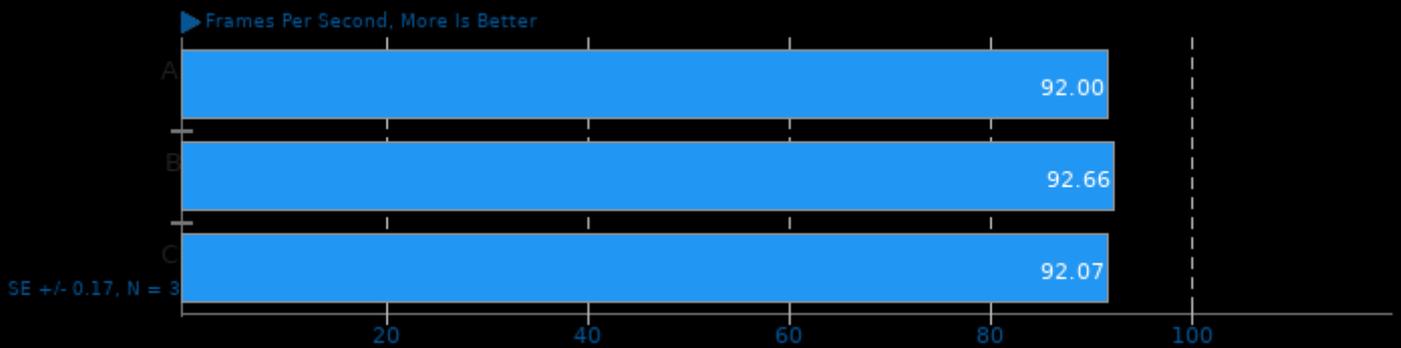
Encode Settings: Quality 75, Compression Effort 7



1. (CXX) g++ options: -mssse4.2 -fno-rtti -O3 -ldl

SVT-AV1 1.0

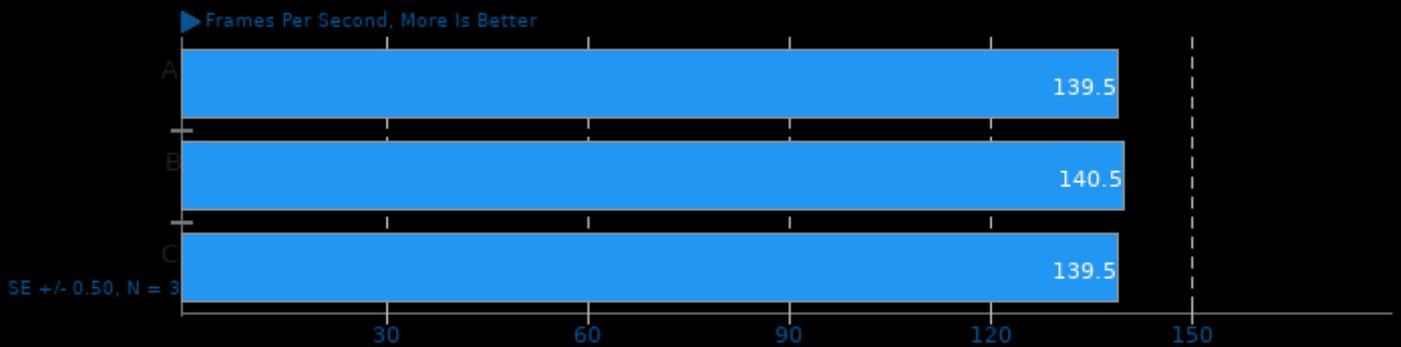
Encoder Mode: Preset 8 - Input: Bosphorus 1080p



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

yquake2 8.10

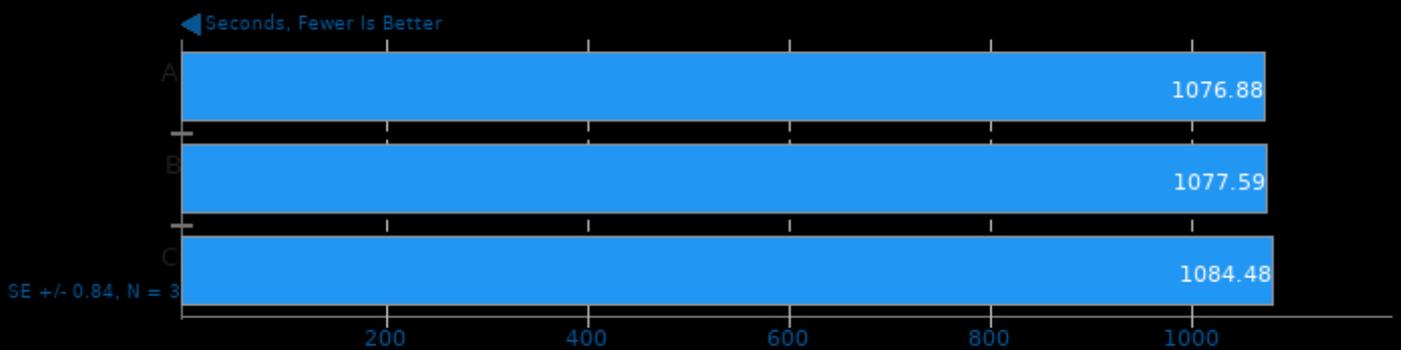
Renderer: Software CPU Color Light - AF: Off - MSAA: On - Resolution: 1920 x 1080



1. (CC) gcc options: -shared -lm -ldl -rdynamic -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mt

WebP2 Image Encode 20220422

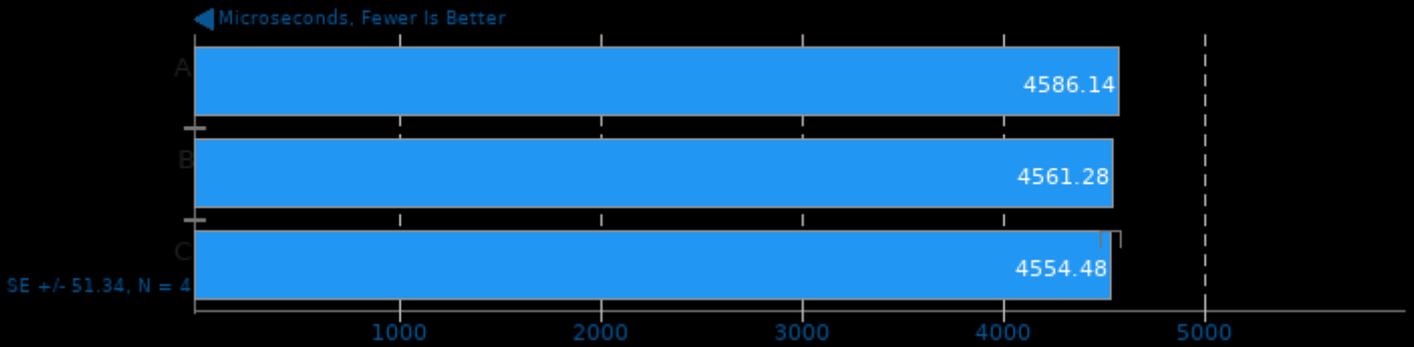
Encode Settings: Quality 100, Lossless Compression



1. (CXX) g++ options: -mssse4.2 -fno-rtti -O3 -ldl

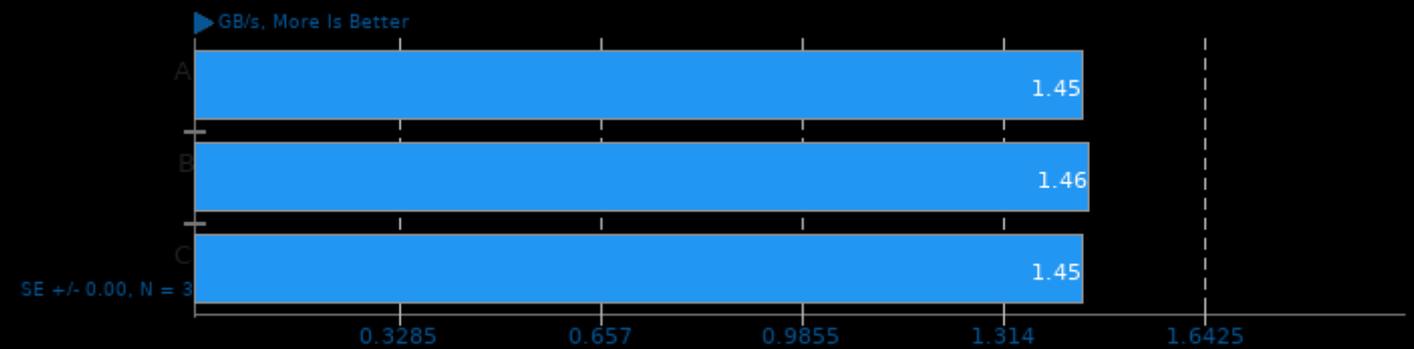
TensorFlow Lite 2022-05-18

Model: Mobilenet Quant



simdjson 2.0

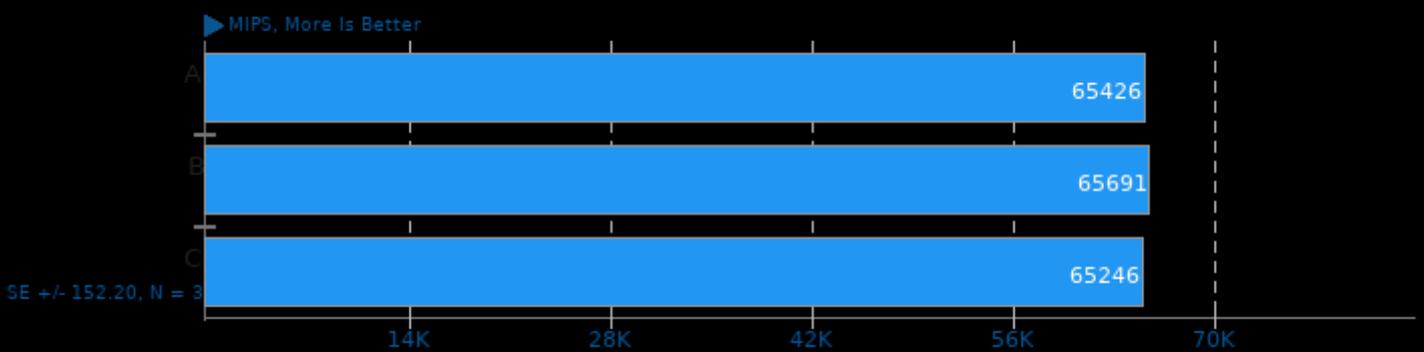
Throughput Test: LargeRandom



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

7-Zip Compression 22.00

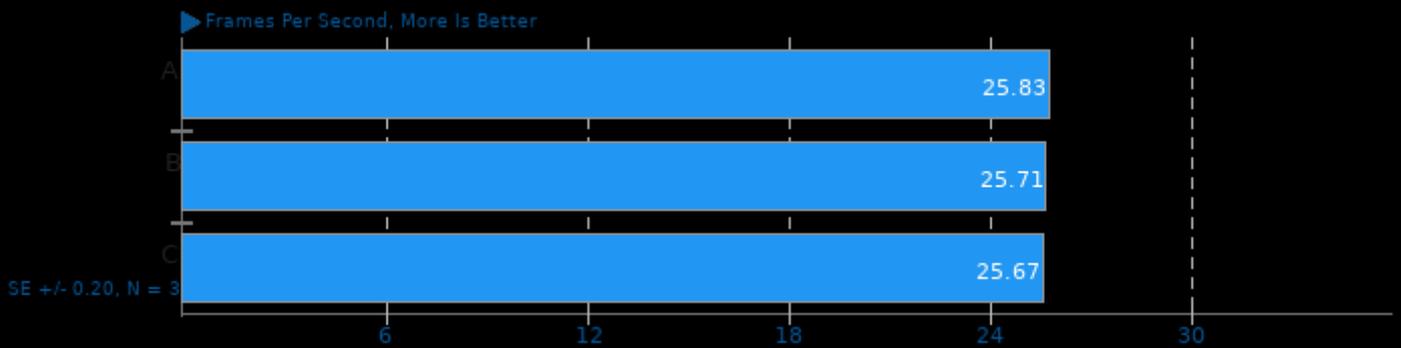
Test: Compression Rating



1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC

SVT-AV1 1.0

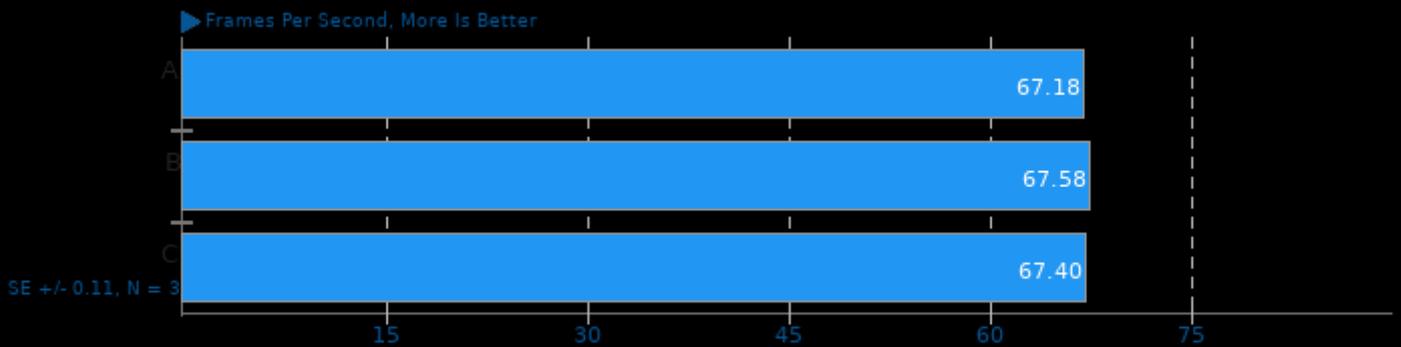
Encoder Mode: Preset 8 - Input: Bosphorus 4K



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

AOM AV1 3.4

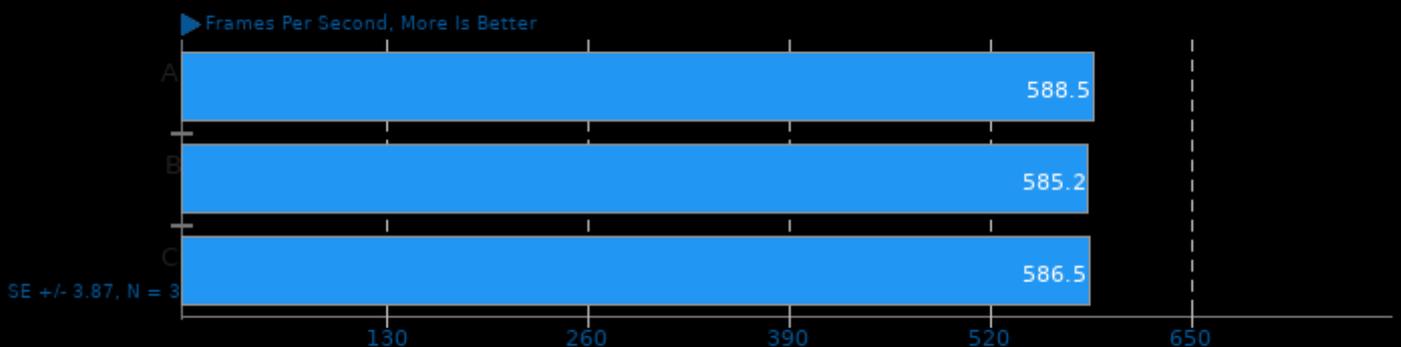
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

yquake2 8.10

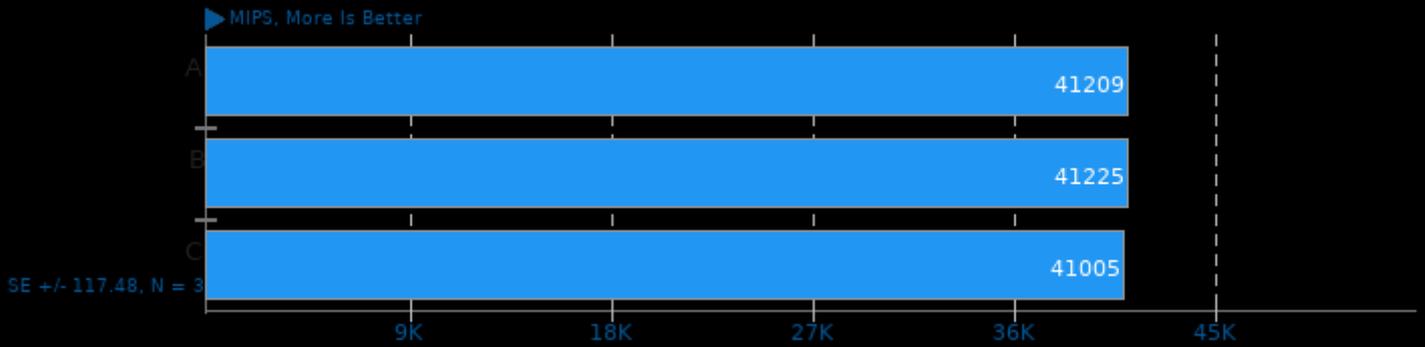
Renderer: OpenGL ES 3.x - AF: Off - MSAA: Off - Resolution: 1920 x 1080



1. (C) gcc options: -shared -lm -ldl -rdynamic -fstack-protector -fPIE -pie -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfr

7-Zip Compression 22.00

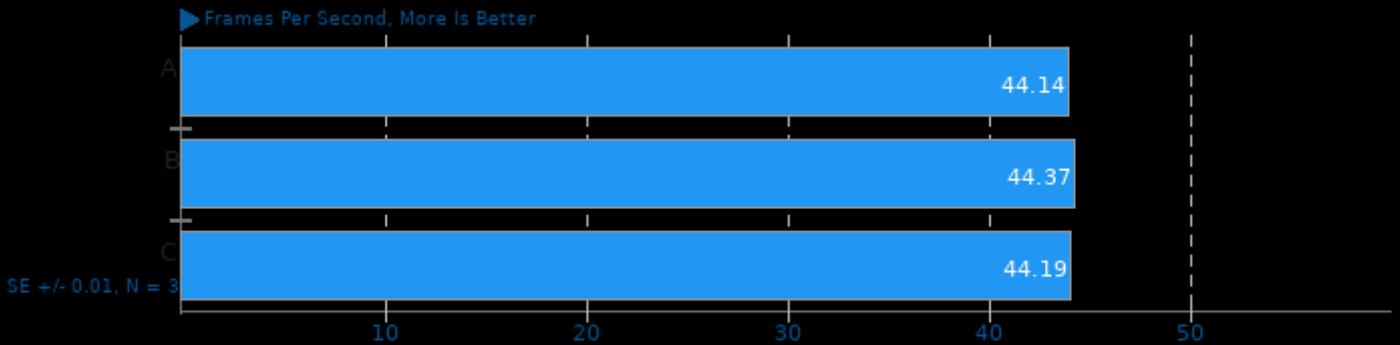
Test: Decompression Rating



1. (CXX) g++ options: -pthread -ldl -O2 -fPIC

AOM AV1 3.4

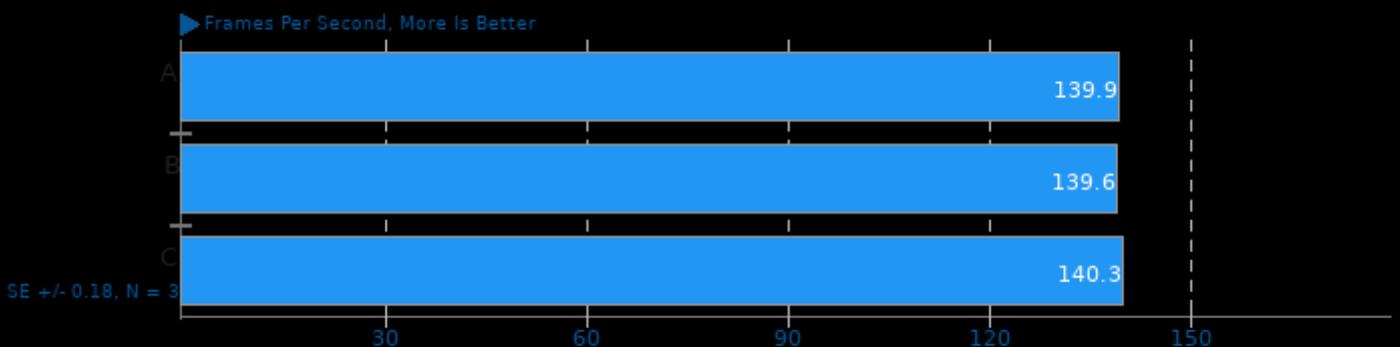
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

yquake2 8.10

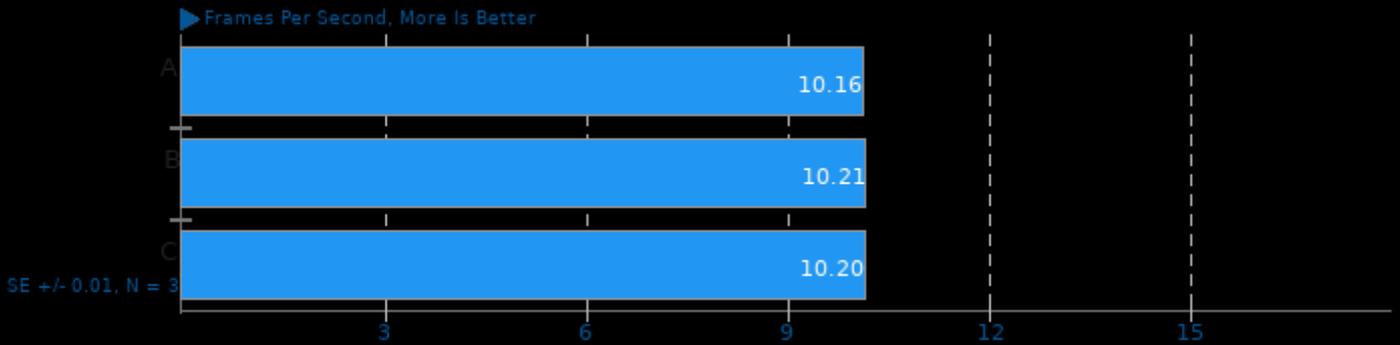
Renderer: Software CPU Color Light - AF: Off - MSAA: Off - Resolution: 1920 x 1080



1. (C) gcc options: -shared -lm -ldl -rdynamic -lsdl2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfr

AOM AV1 3.4

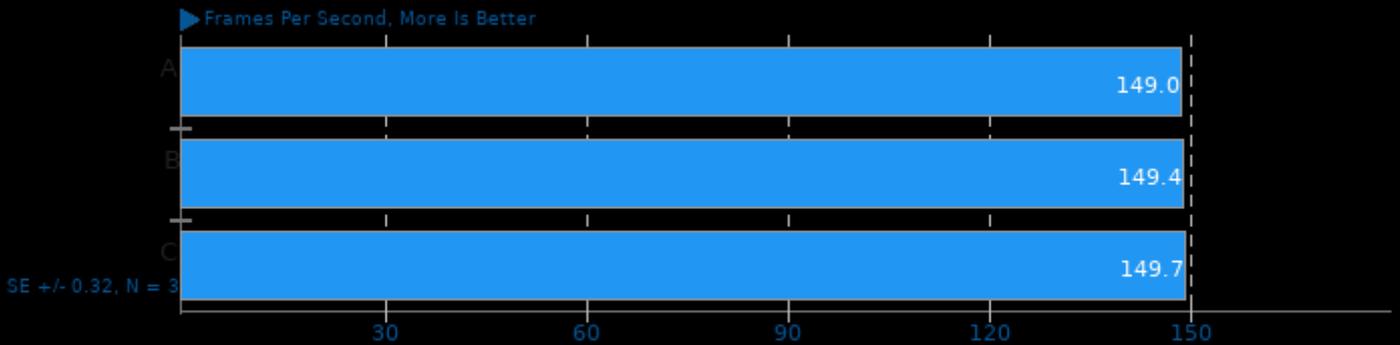
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

yquake2 8.10

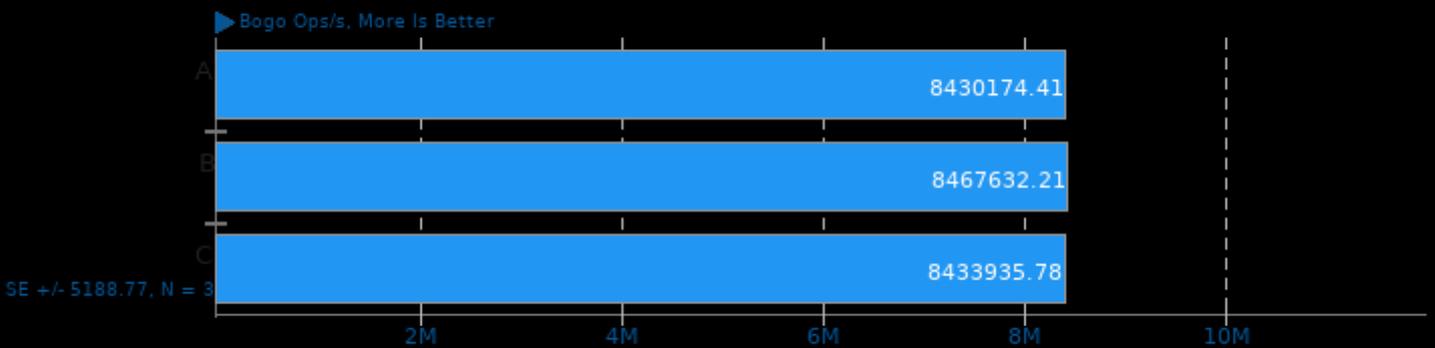
Renderer: Software CPU - AF: Off - MSAA: On - Resolution: 1920 x 1080



1. (CC) gcc options: -shared -lm -ldl -rdynamic -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvvisibility=hidden -MMD -mt

Stress-NG 0.14

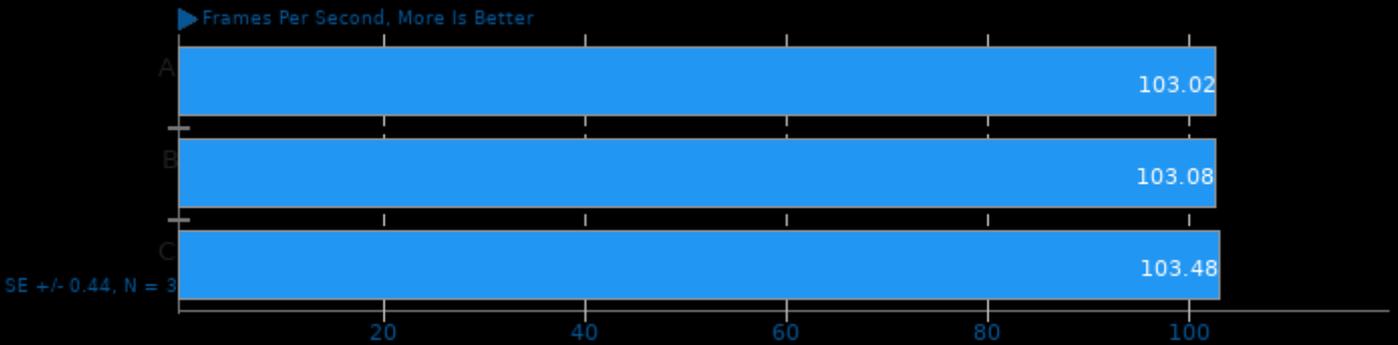
Test: System V Message Passing



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

SVT-AV1 1.0

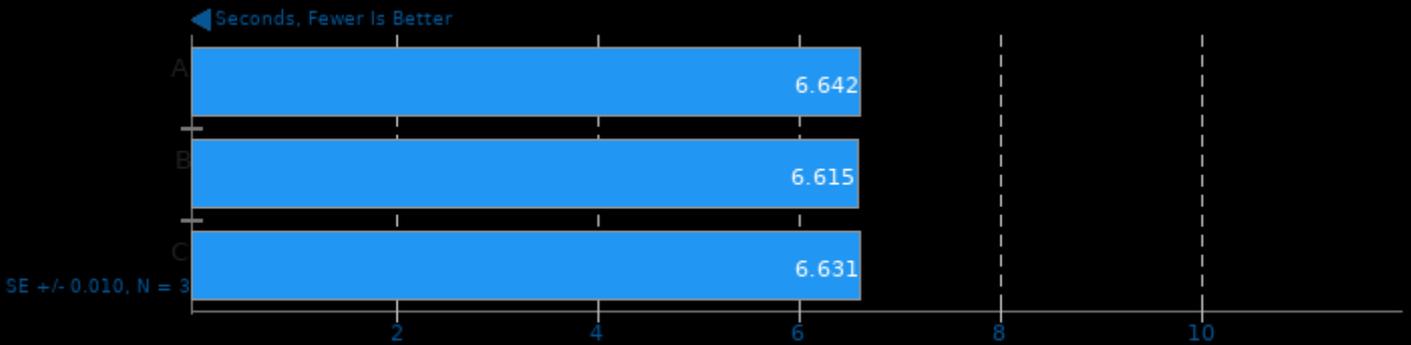
Encoder Mode: Preset 12 - Input: Bosphorus 4K



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

WebP2 Image Encode 20220422

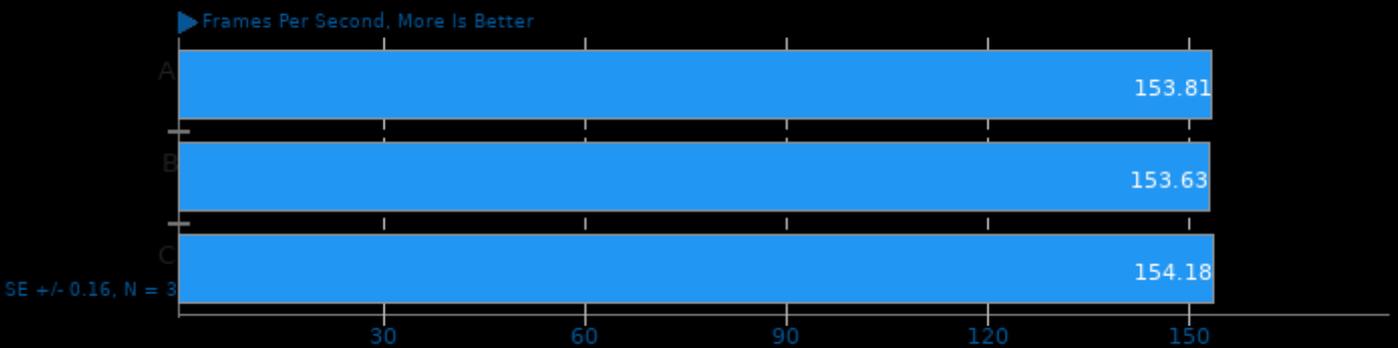
Encode Settings: Quality 100, Compression Effort 5



1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -ldl

SVT-VP9 0.3

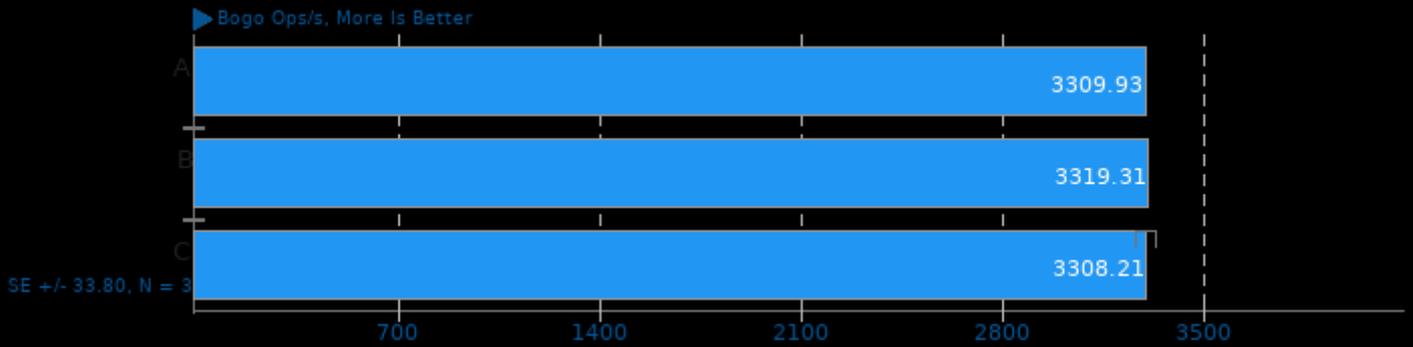
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



1. (C) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -pthread -lrt -lm

Stress-NG 0.14

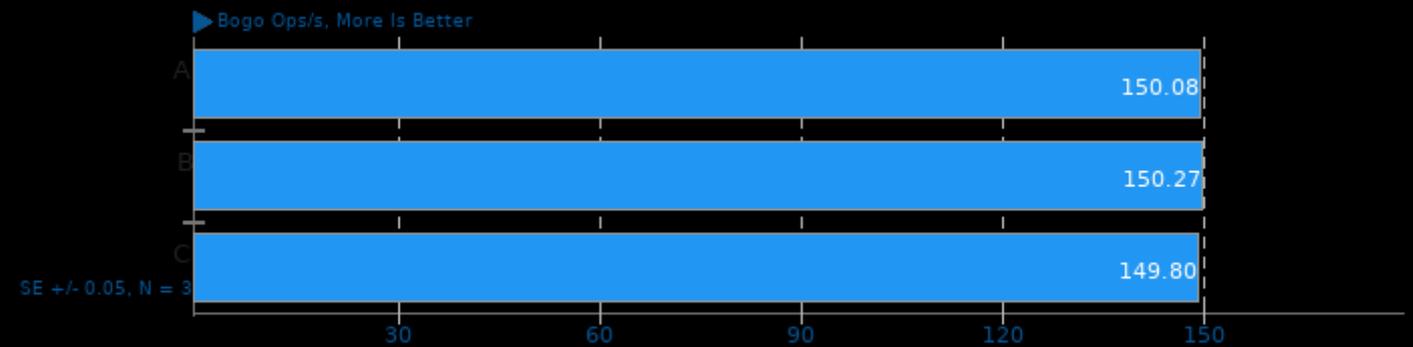
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

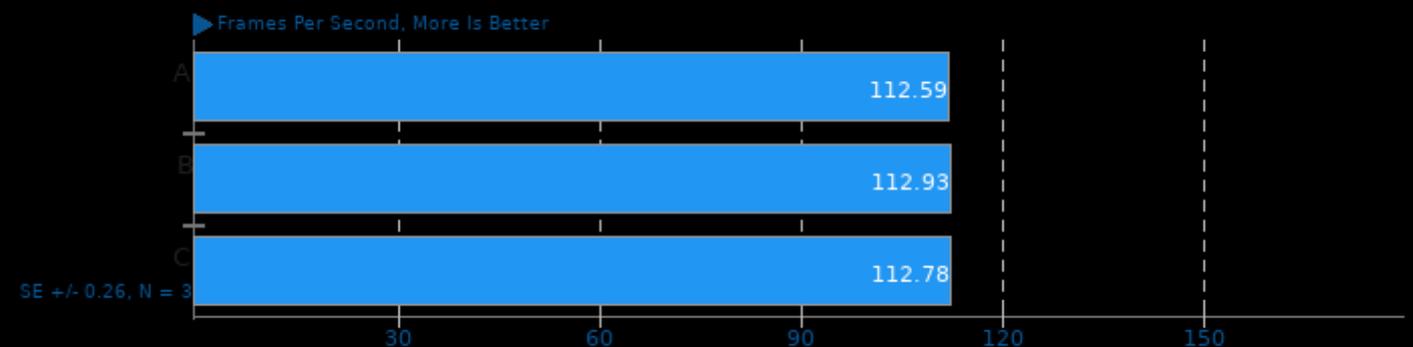
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

SVT-HEVC 1.5.0

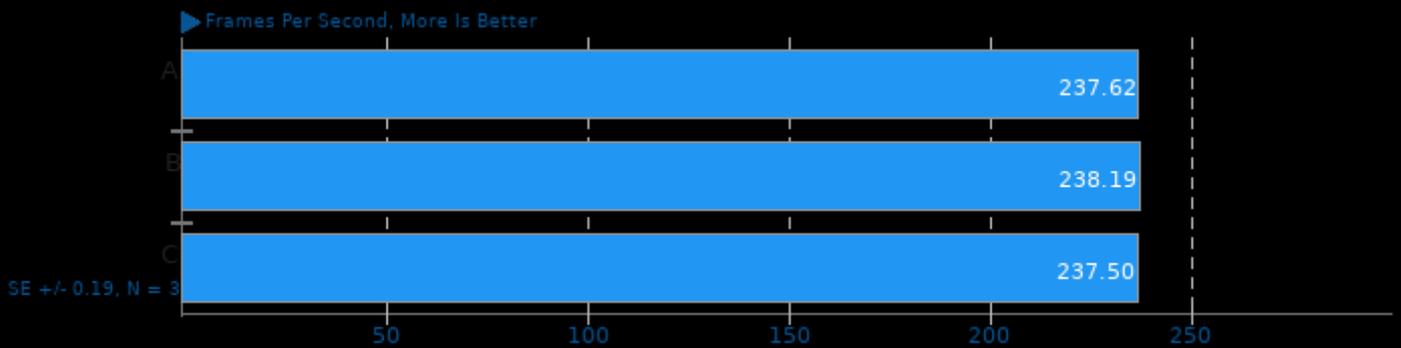
Tuning: 7 - Input: Bosphorus 1080p



1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -pthread -lrt

SVT-HEVC 1.5.0

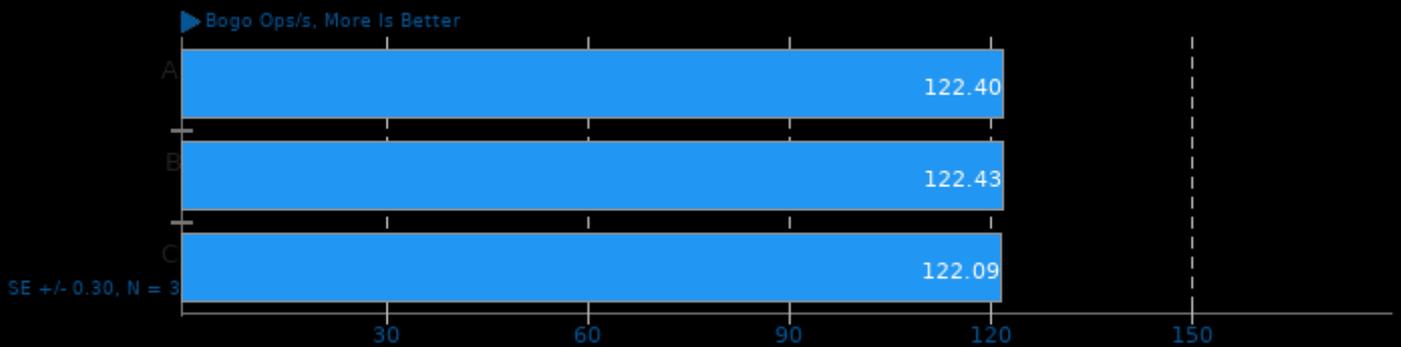
Tuning: 10 - Input: Bosphorus 1080p



1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lthread -lrt

Stress-NG 0.14

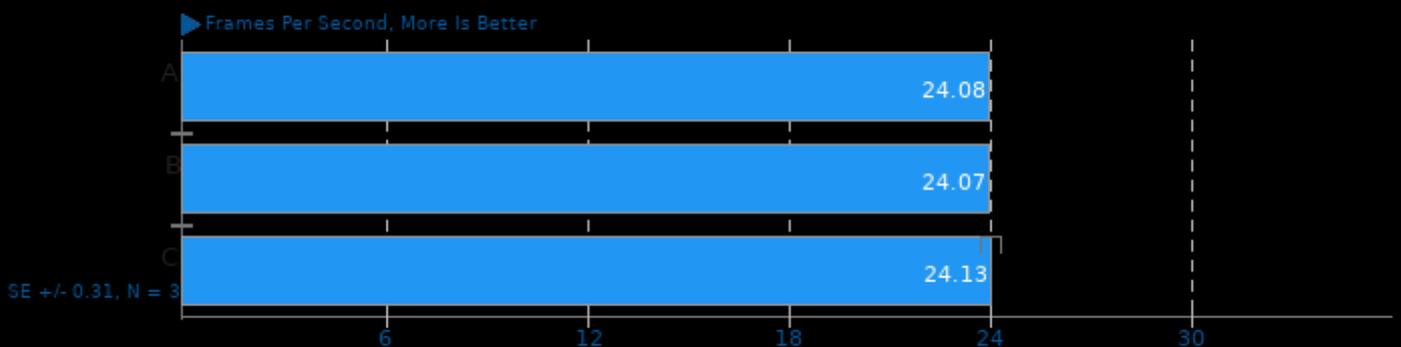
Test: Glibc Qsort Data Sorting



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

x264 2022-02-22

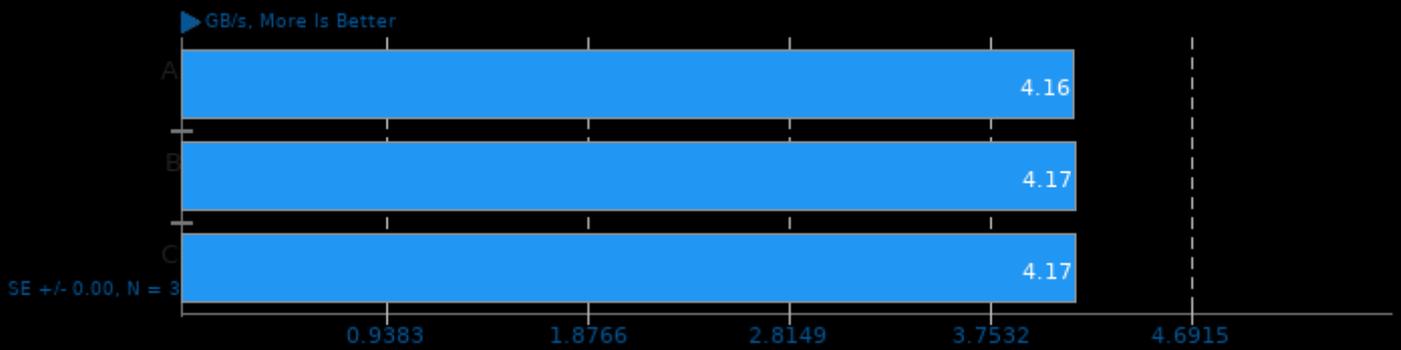
Video Input: Bosphorus 4K



1. (CC) gcc options: -ldl -m64 -lm -pthread -O3 -fno

simdjson 2.0

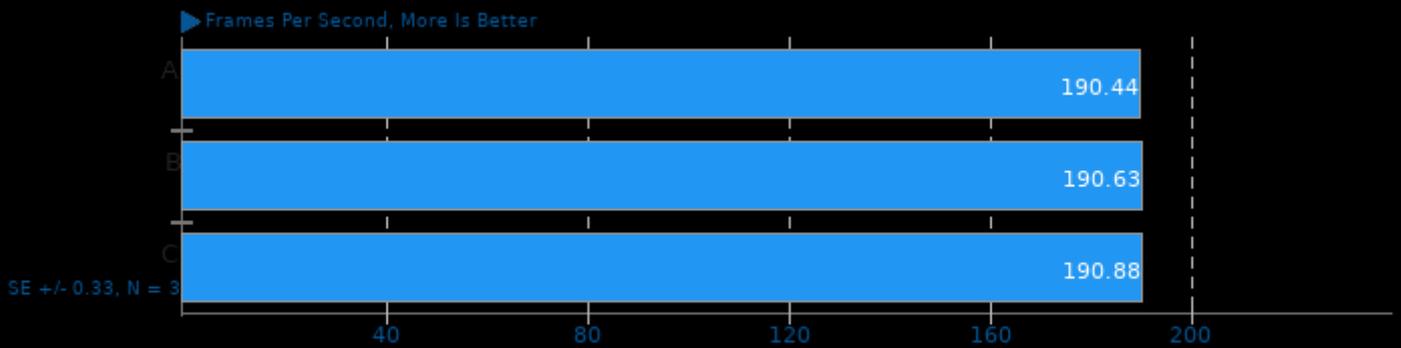
Throughput Test: Kostya



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

SVT-AV1 1.0

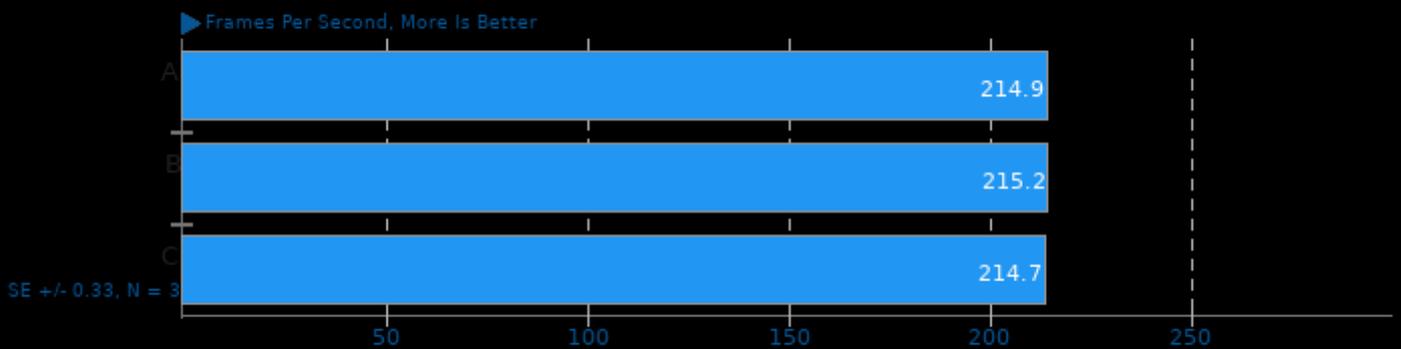
Encoder Mode: Preset 10 - Input: Bosphorus 1080p



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

yquake2 8.10

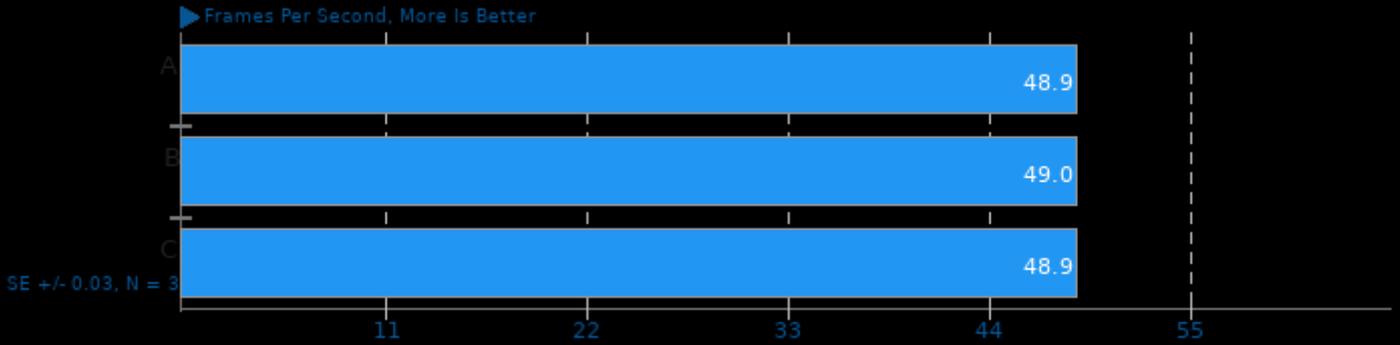
Renderer: OpenGL ES 3.x - AF: Off - MSAA: On - Resolution: 1920 x 1080



1. (CC) gcc options: -shared -lm -ldl -rdynamic -lSDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfpu=nehalem

yquake2 8.10

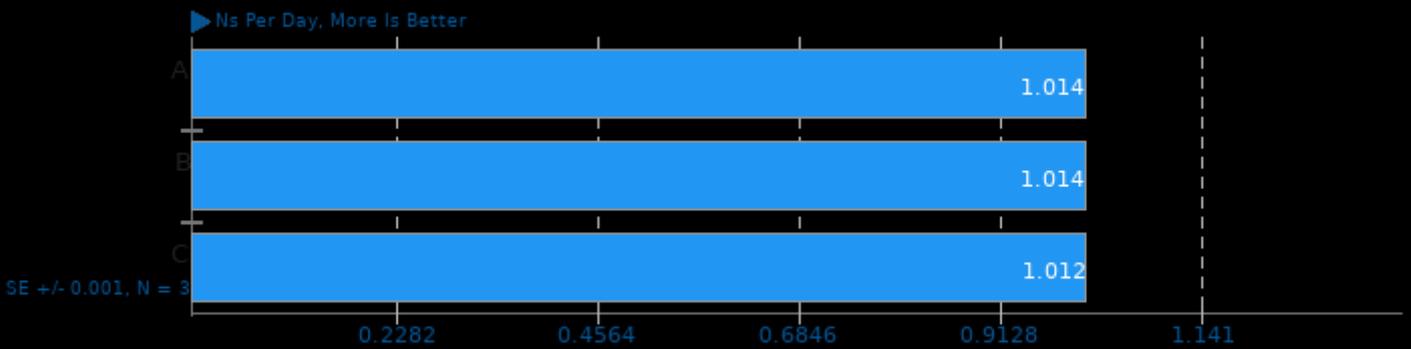
Renderer: Vulkan - AF: Off - MSAA: On - Resolution: 1920 x 1080



1. (GCC) gcc options: -shared -lm -ldl -rdynamic -fstack-protector-strong -fstack-protector -fPIE -pie -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvtable-summaries=hidden -MMD -m...

GROMACS 2022.1

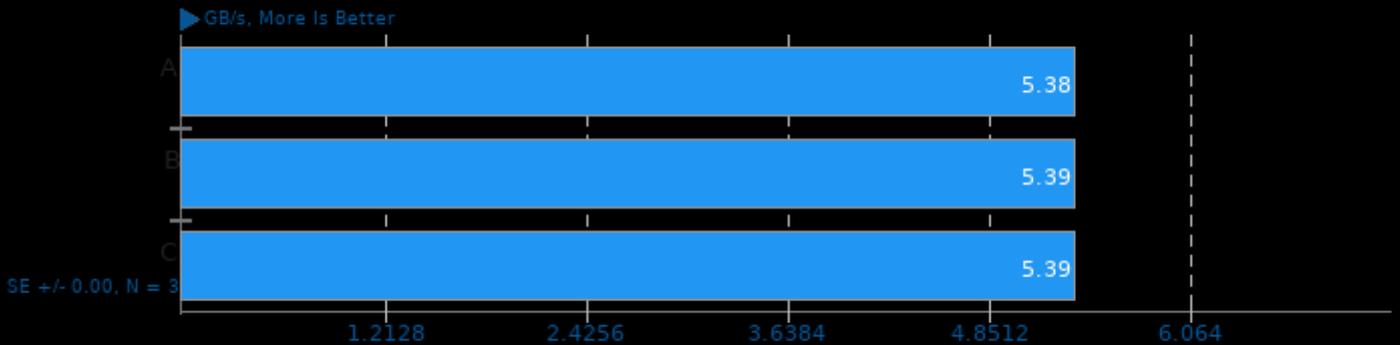
Implementation: MPI CPU - Input: water_GMX50_bare



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

simdjson 2.0

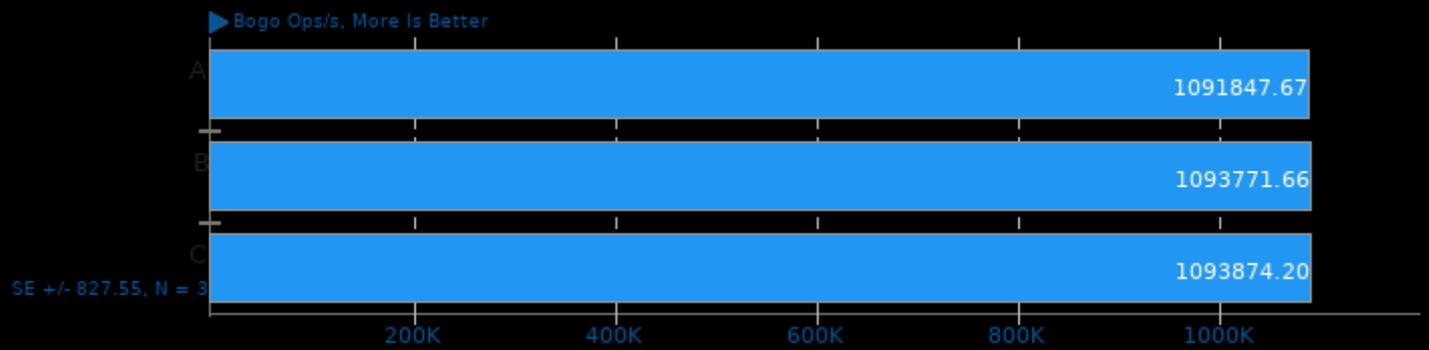
Throughput Test: PartialTweets



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

Stress-NG 0.14

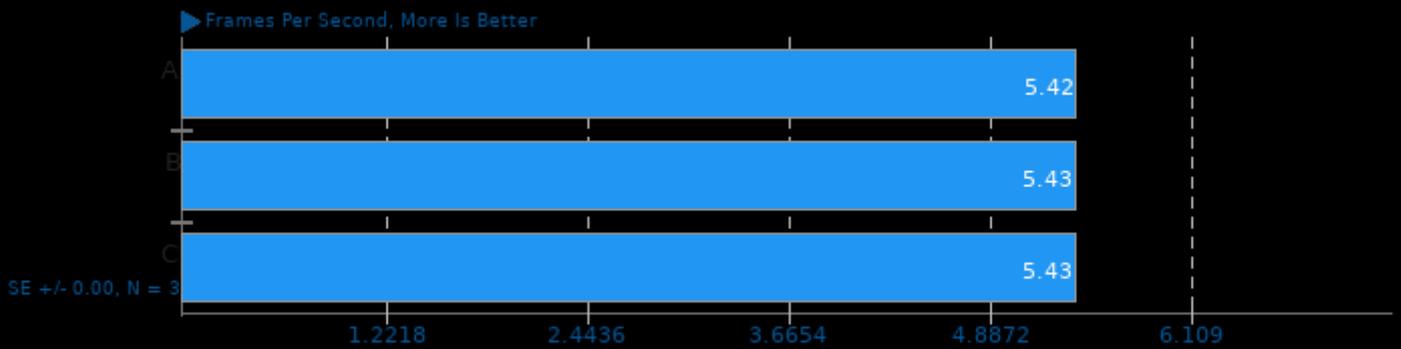
Test: Semaphores



1. (GCC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

AOM AV1 3.4

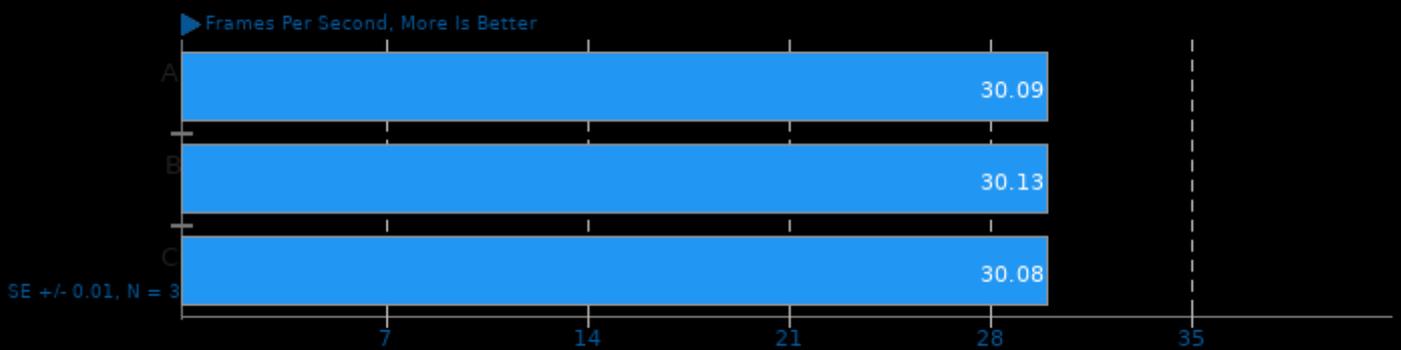
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.4

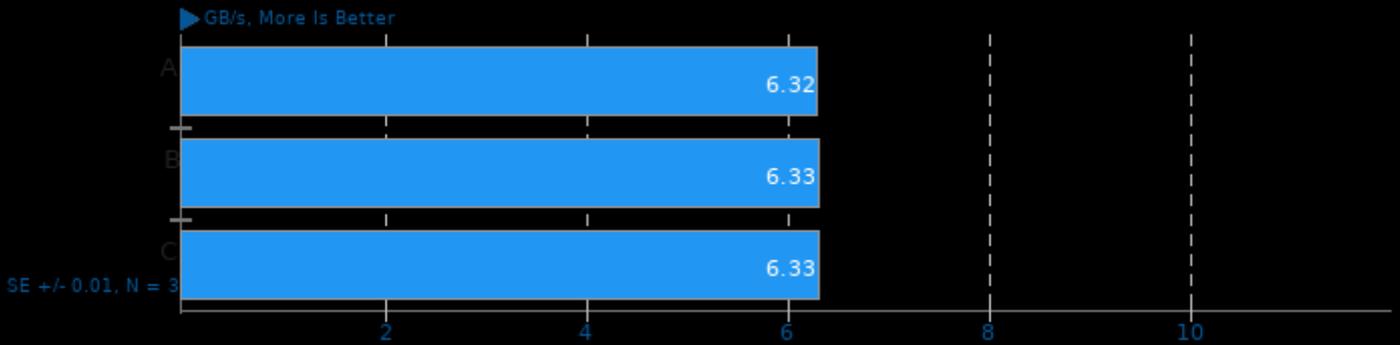
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

simdjson 2.0

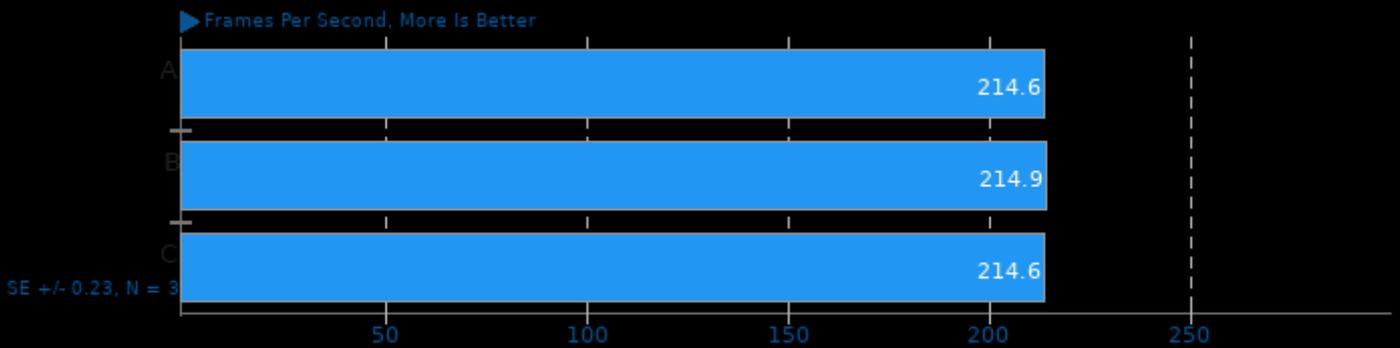
Throughput Test: TopTweet



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

yquake2 8.10

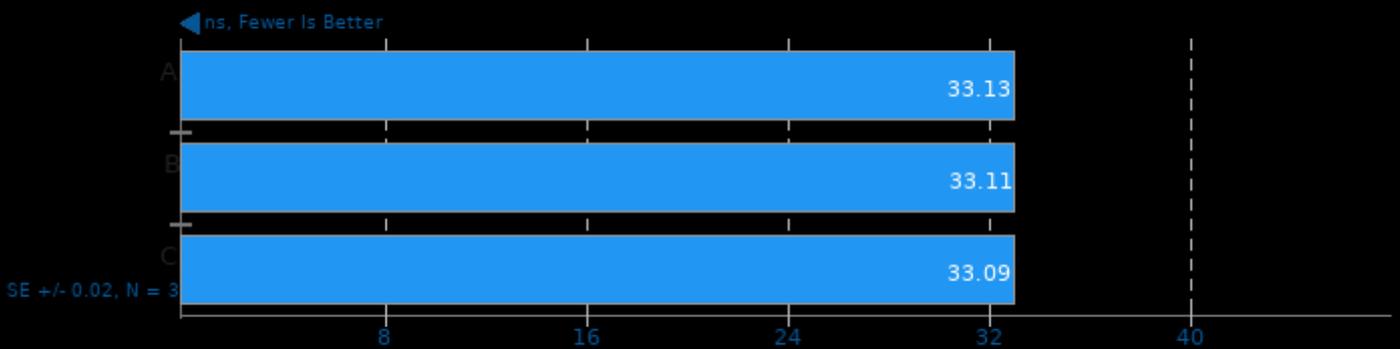
Renderer: OpenGL 3.x - AF: Off - MSAA: On - Resolution: 1920 x 1080



1. (CC) gcc options: -shared -lm -ldl -rdynamic -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfr

Glibc Benchmarks

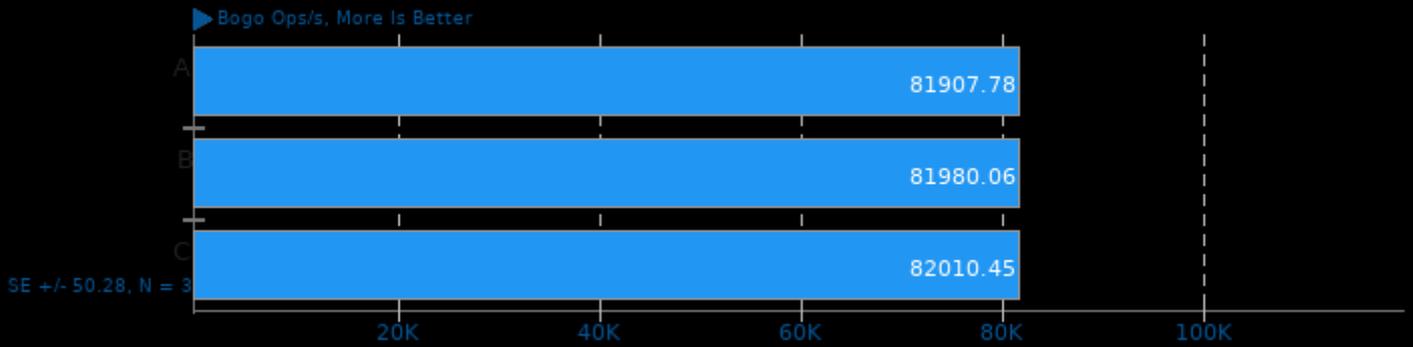
Benchmark: cos



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Stress-NG 0.14

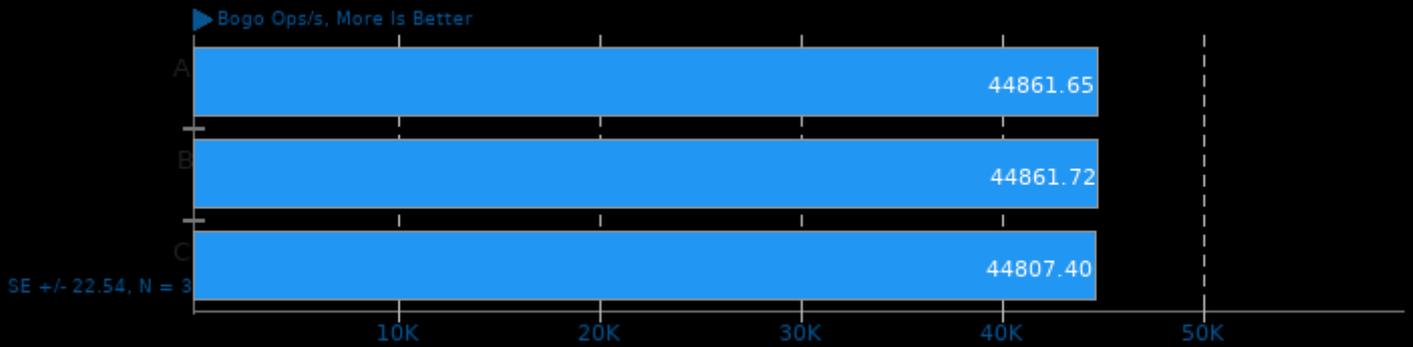
Test: x86_64 RdRand



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

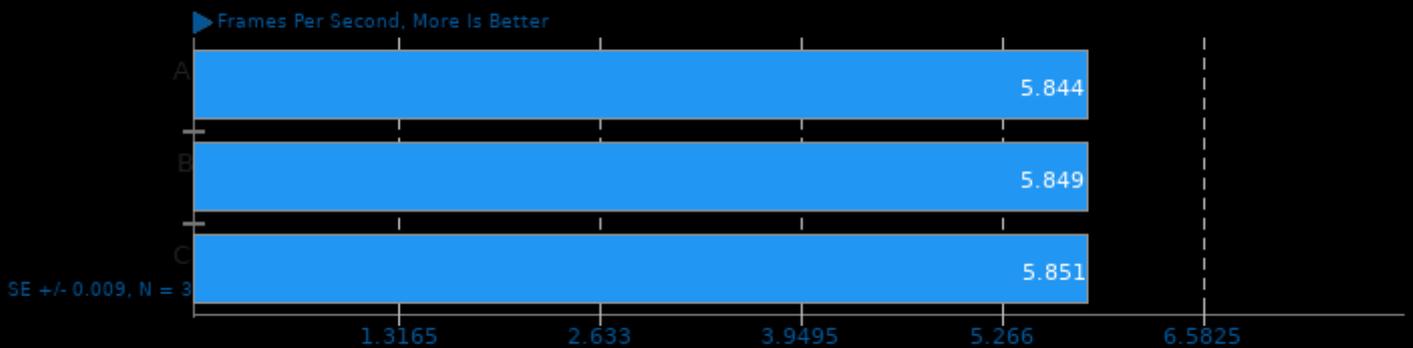
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

SVT-AV1 1.0

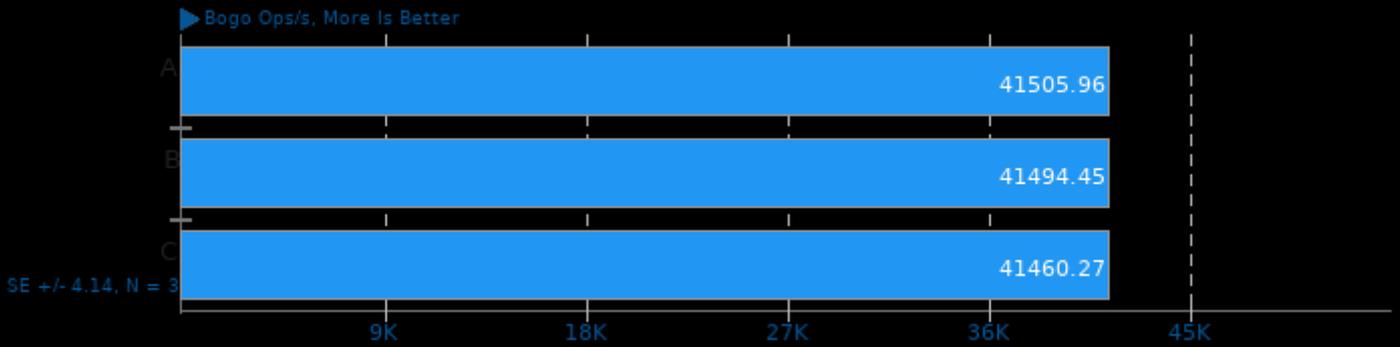
Encoder Mode: Preset 4 - Input: Bosphorus 1080p



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

Stress-NG 0.14

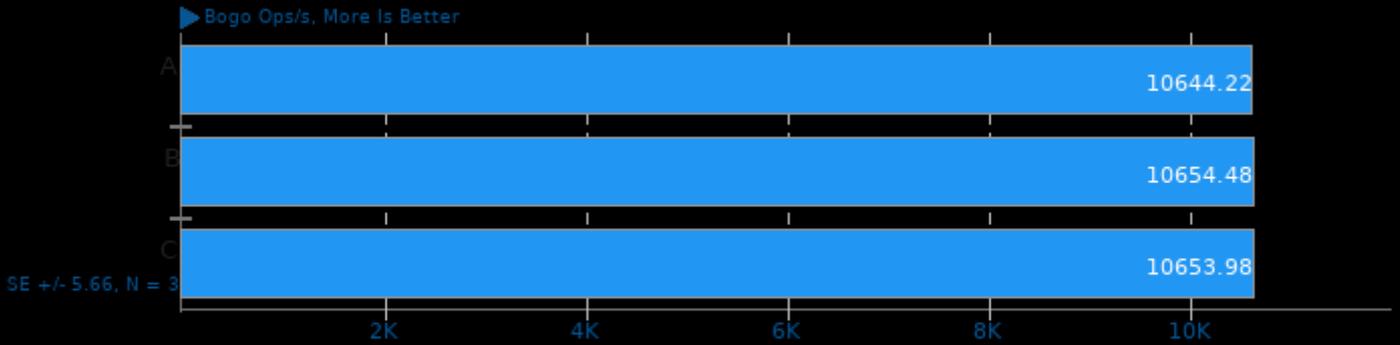
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

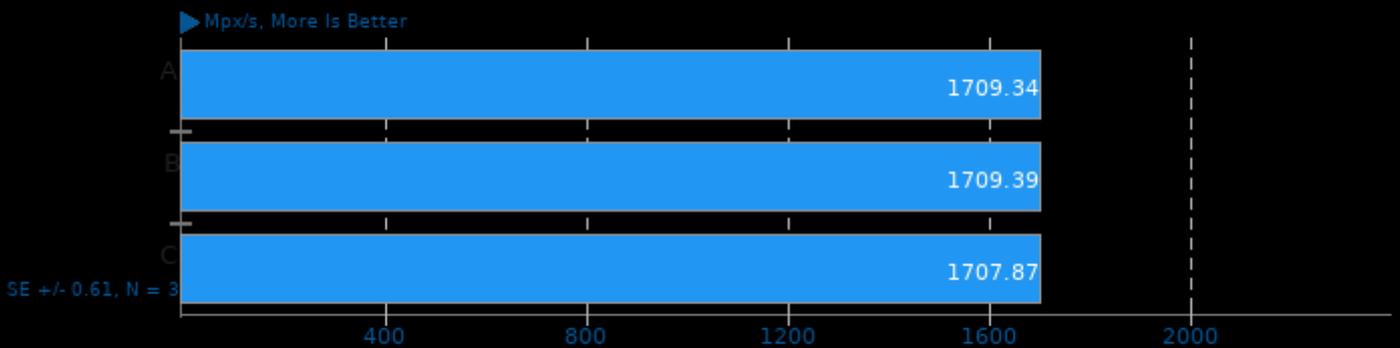
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Etcpak 1.0

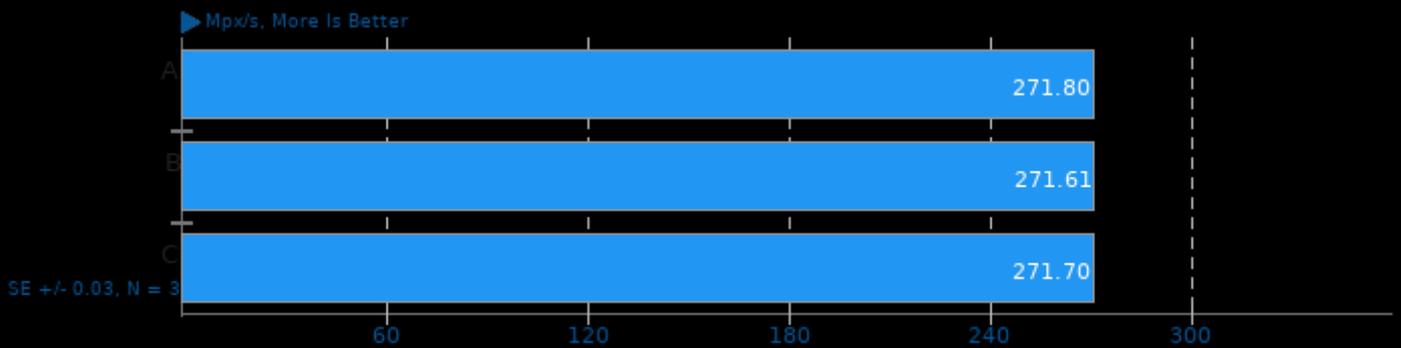
Benchmark: Multi-Threaded - Configuration: ETC2



1. (CXX) g++ options: -O3 -march=native -std=c++11 -pthread

Etcpak 1.0

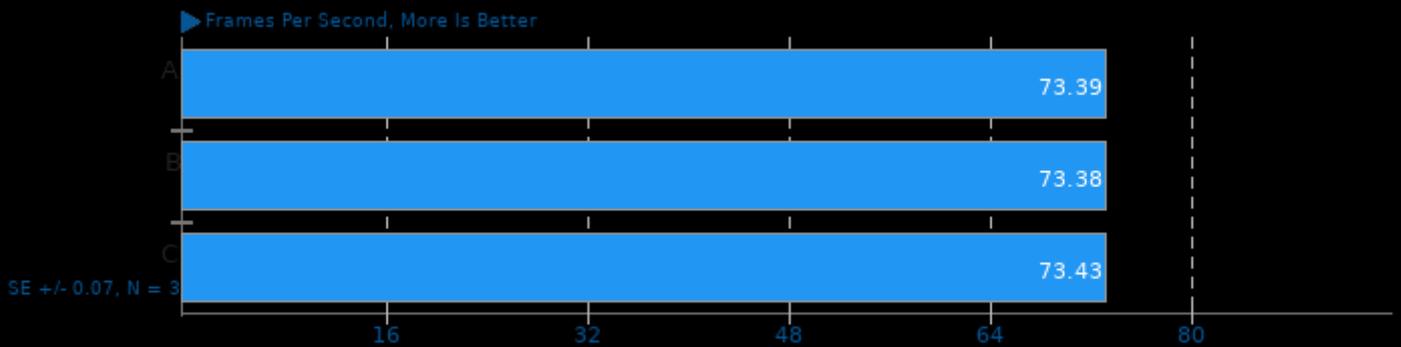
Benchmark: Single-Threaded - Configuration: ETC2



1. (CXX) g++ options: -O3 -march=native -std=c++11 -pthread

SVT-HEVC 1.5.0

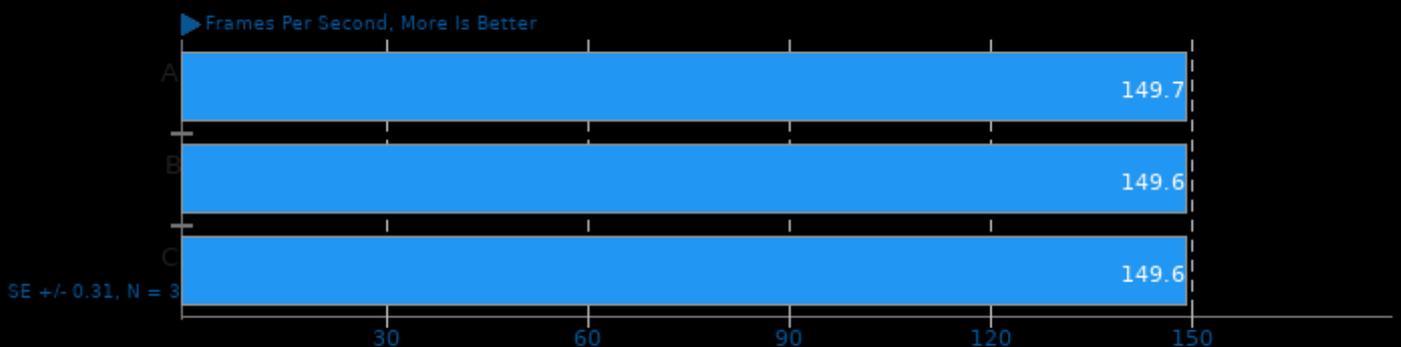
Tuning: 10 - Input: Bosphorus 4K



1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -pthread -lrt

yquake2 8.10

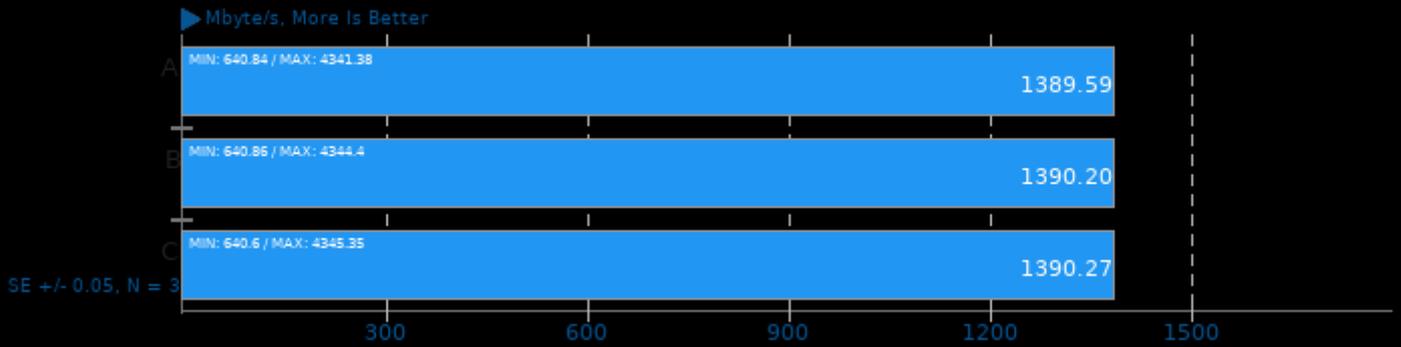
Renderer: Software CPU - AF: Off - MSAA: Off - Resolution: 1920 x 1080



1. (CC) gcc options: -shared -lm -ldl -rdynamic -lSDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvvisibility=hidden -MMD -mfr

Nettle 3.8

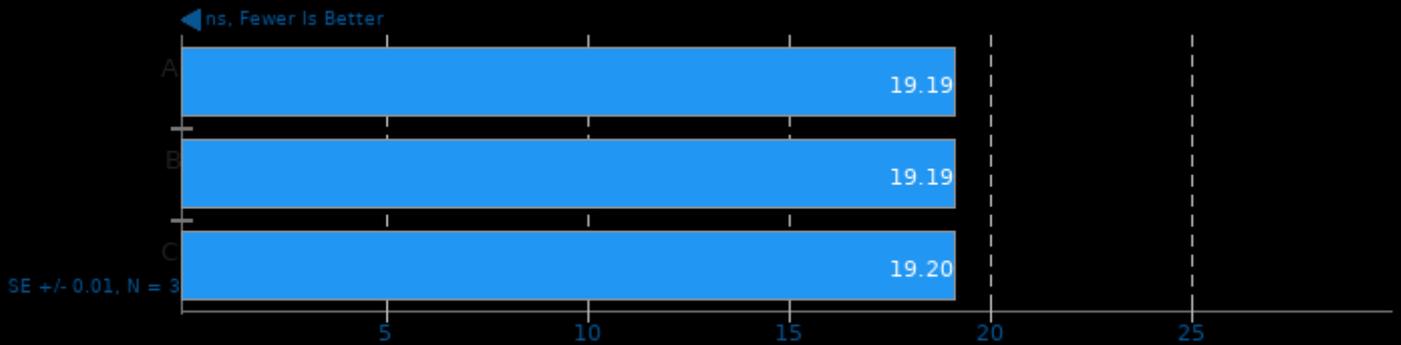
Test: chacha



1. (CC) gcc options: -O2 -ggdb3 -lnettle -lm -lcrypto

Glibc Benchmarks

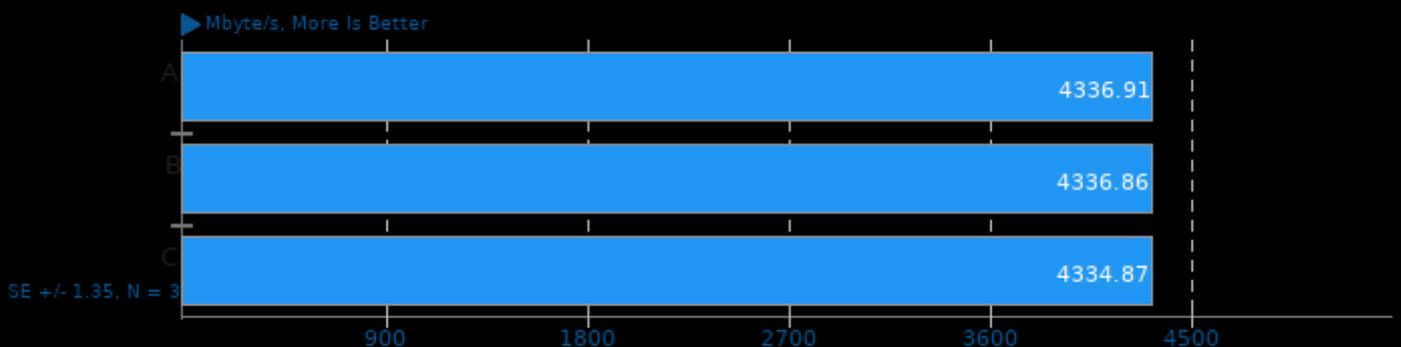
Benchmark: sincos



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Nettle 3.8

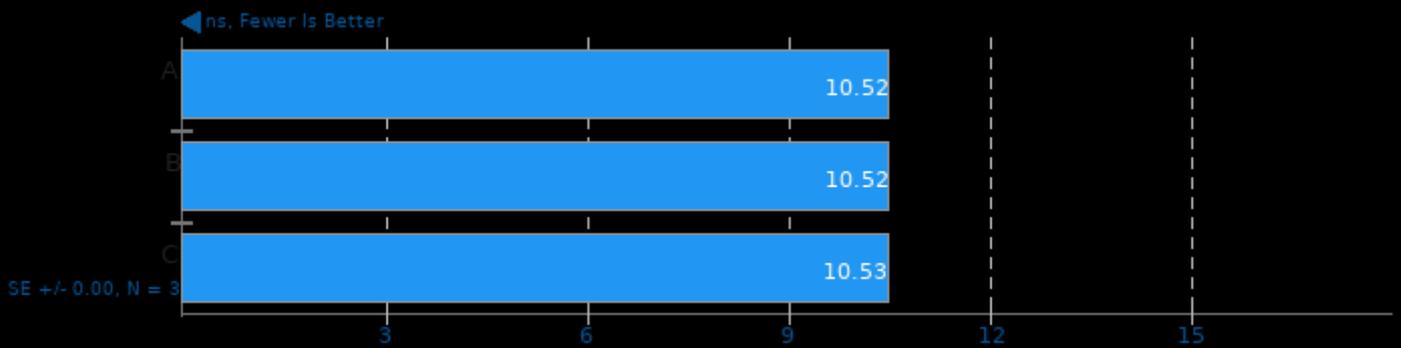
Test: poly1305-aes



1. (CC) gcc options: -O2 -ggdb3 -lnettle -lm -lcrypto

Glibc Benchmarks

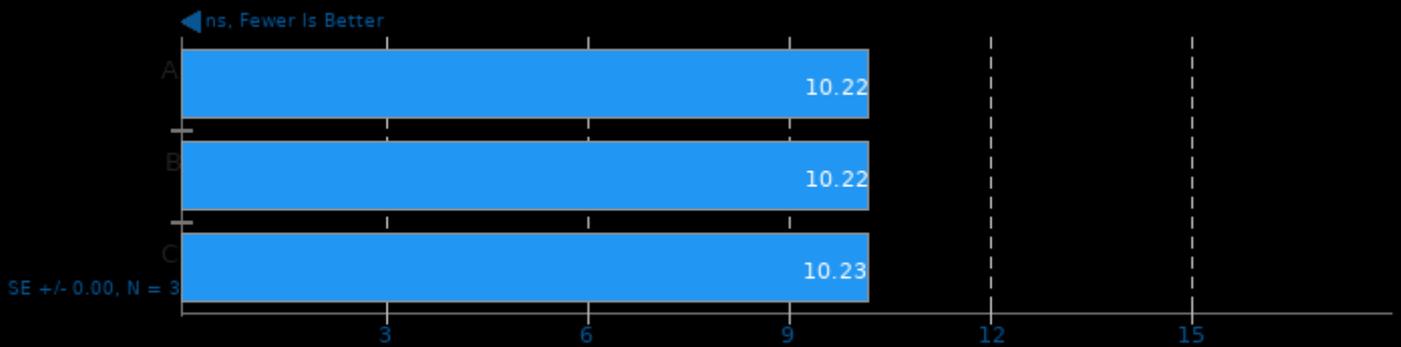
Benchmark: sinh



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

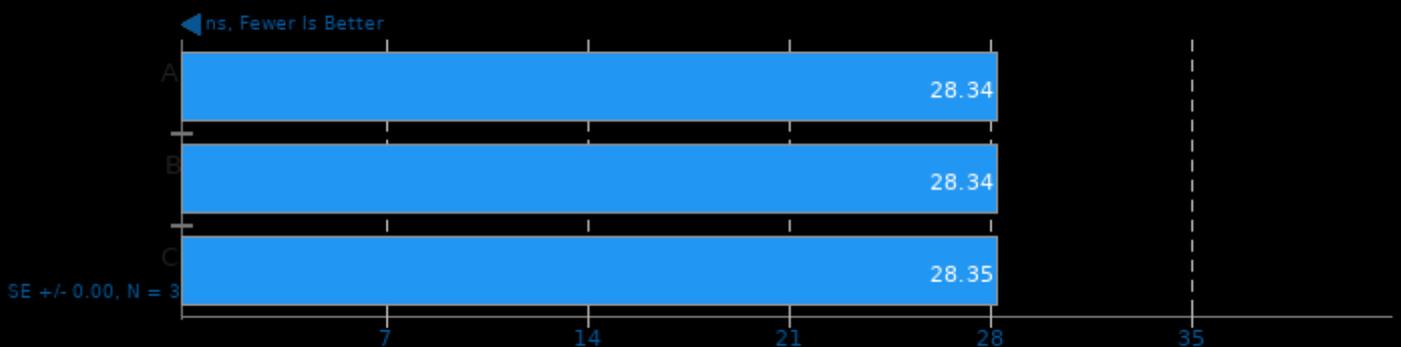
Benchmark: log2



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

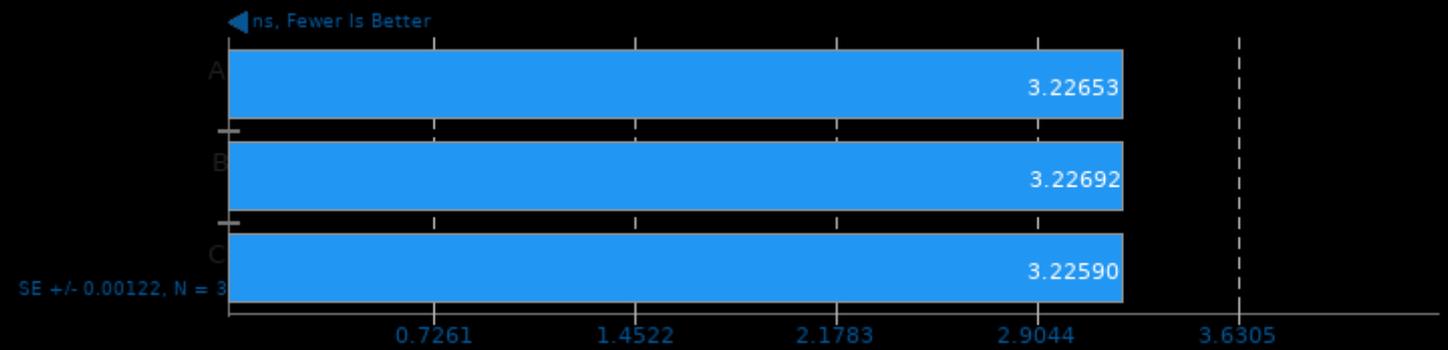
Benchmark: sin



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

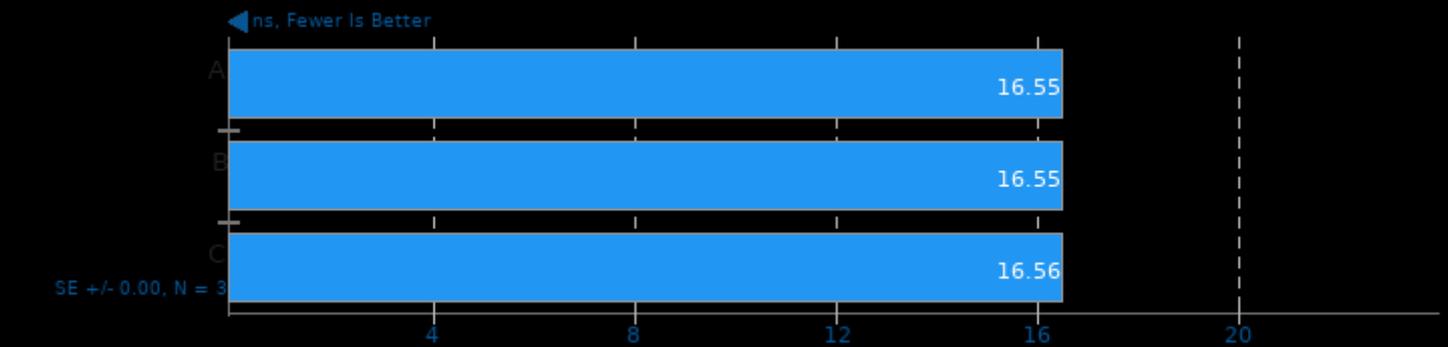
Benchmark: modf



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

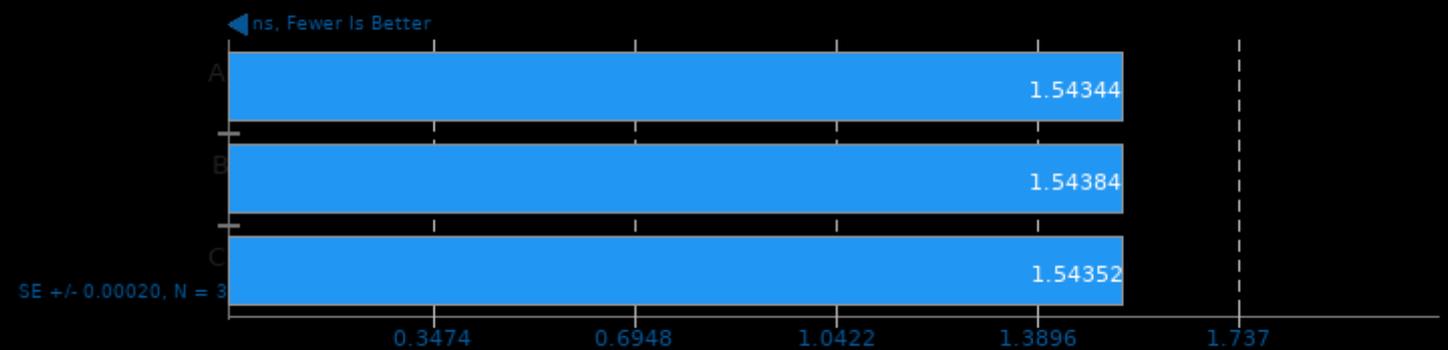
Benchmark: atanh



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

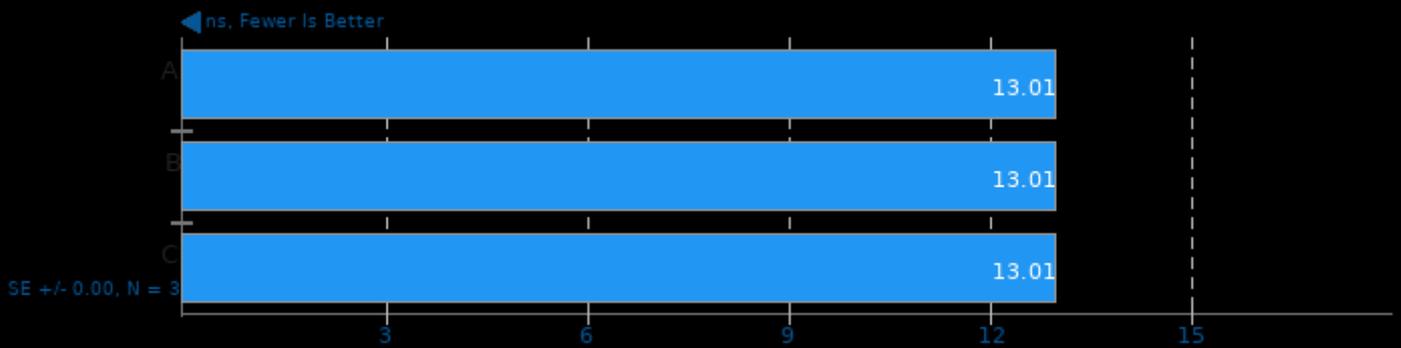
Benchmark: pthread_once



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

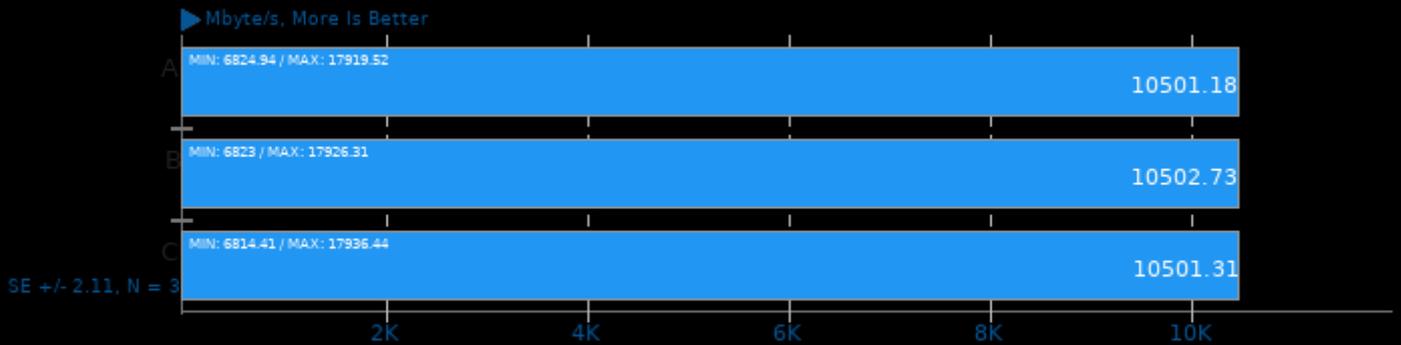
Benchmark: asinh



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Nettle 3.8

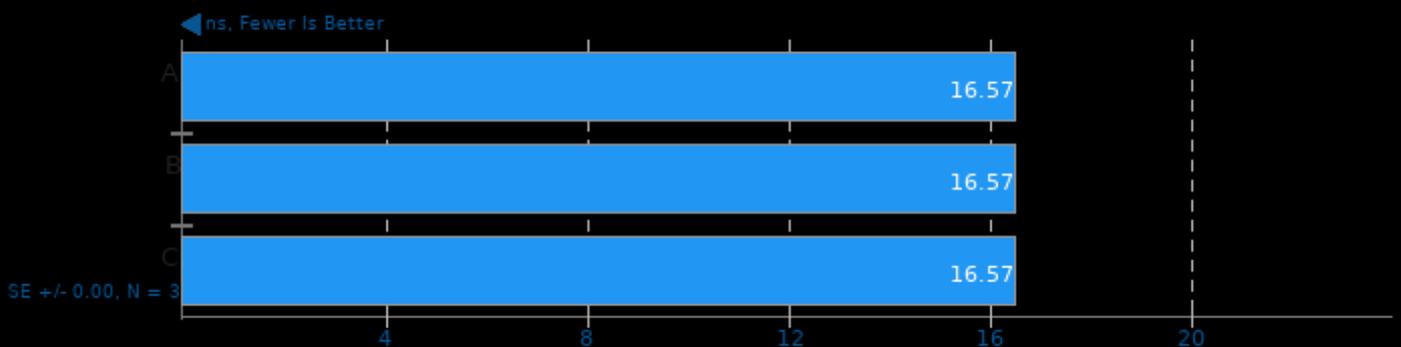
Test: aes256



1. (CC) gcc options: -O2 -ggdb3 -lnettle -lm -lcrypto

Glibc Benchmarks

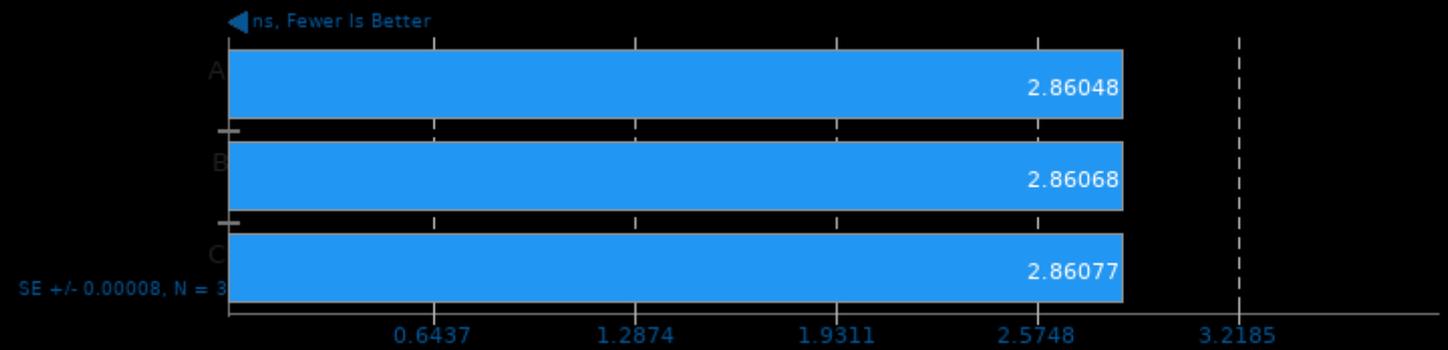
Benchmark: tanh



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

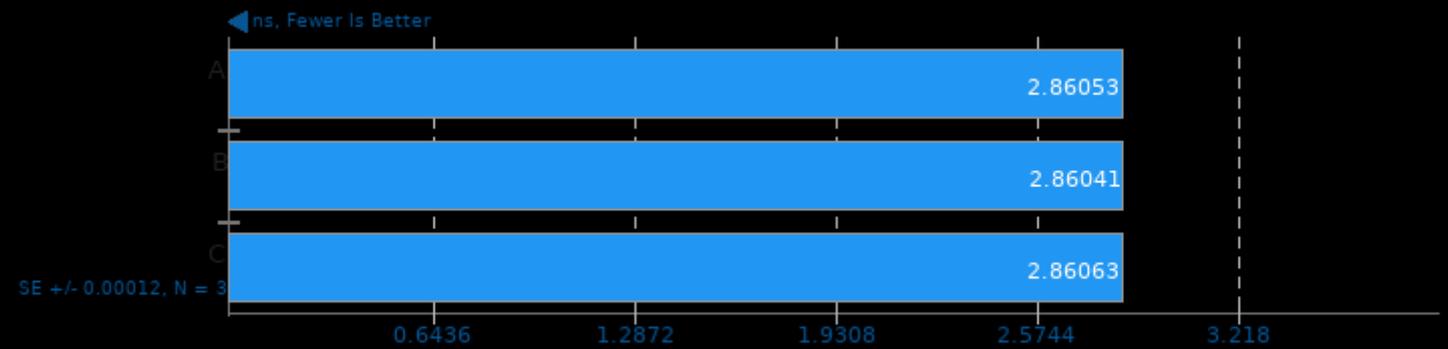
Benchmark: ffs



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

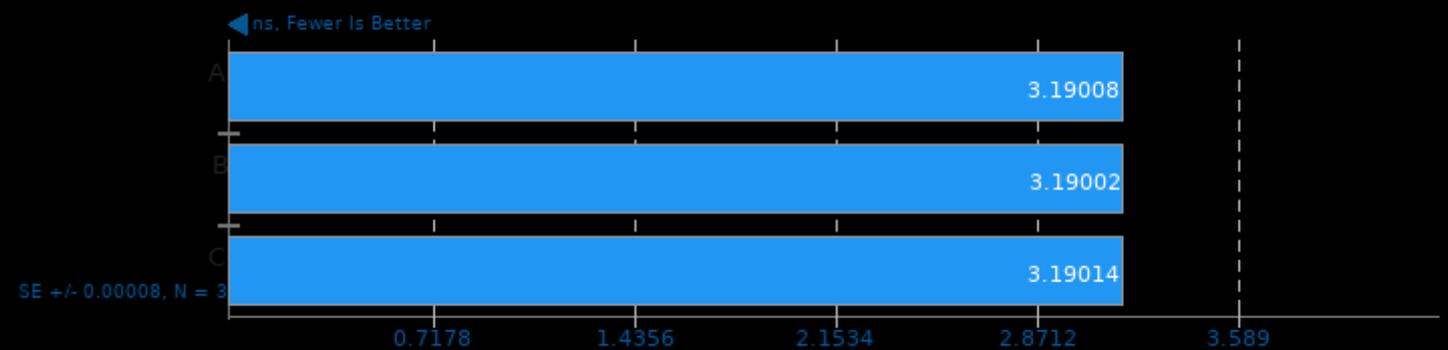
Benchmark: ffsll



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

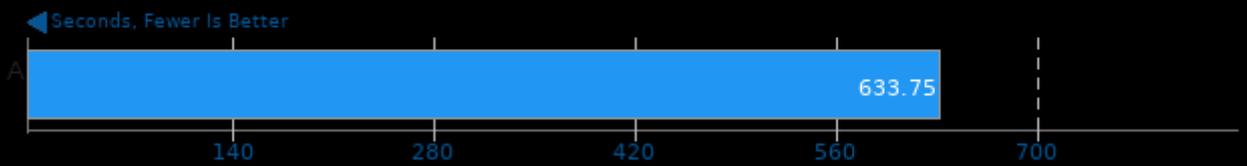
Benchmark: sqrt



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

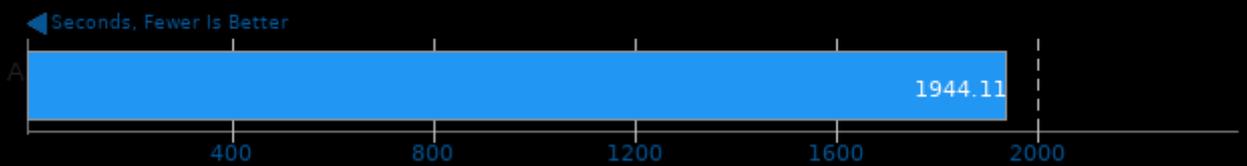
Blender 3.2

Blend File: Pabellon Barcelona - Compute: CPU-Only



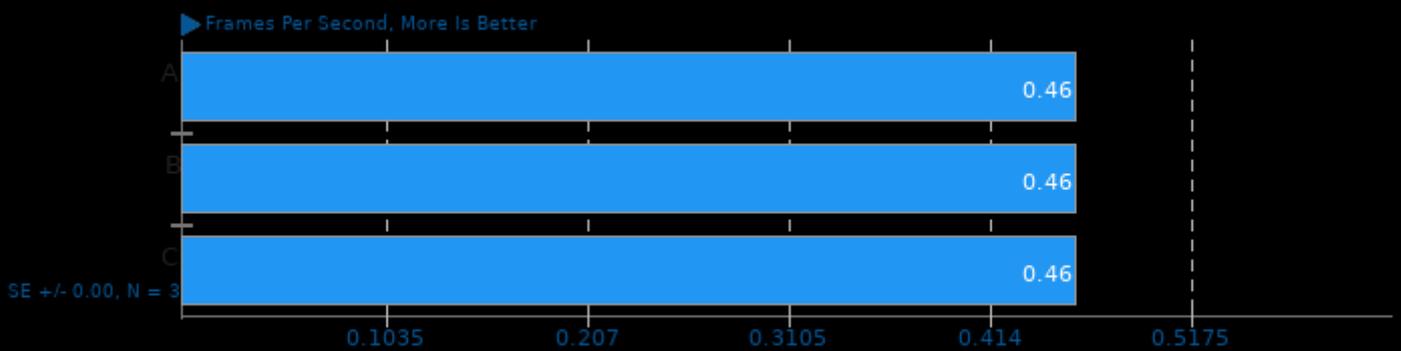
Blender 3.2

Blend File: Barbershop - Compute: CPU-Only



AOM AV1 3.4

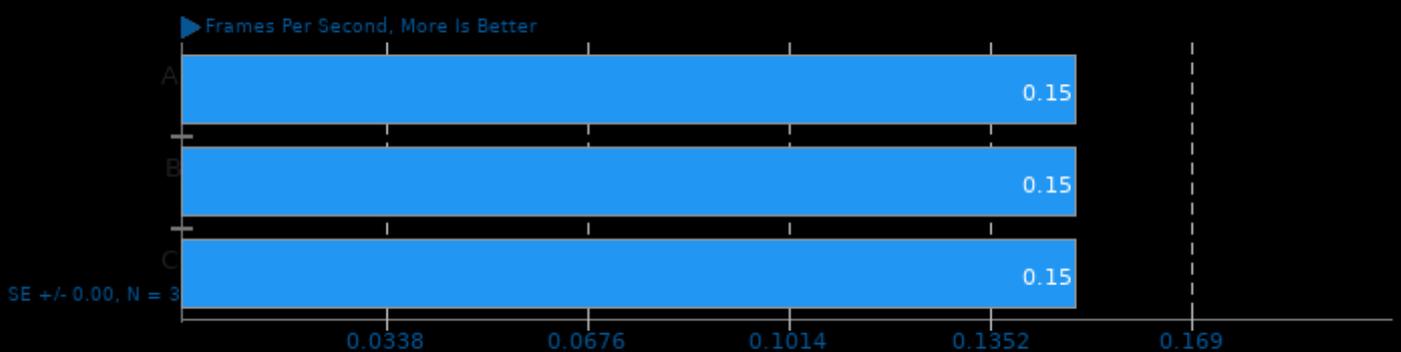
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.4

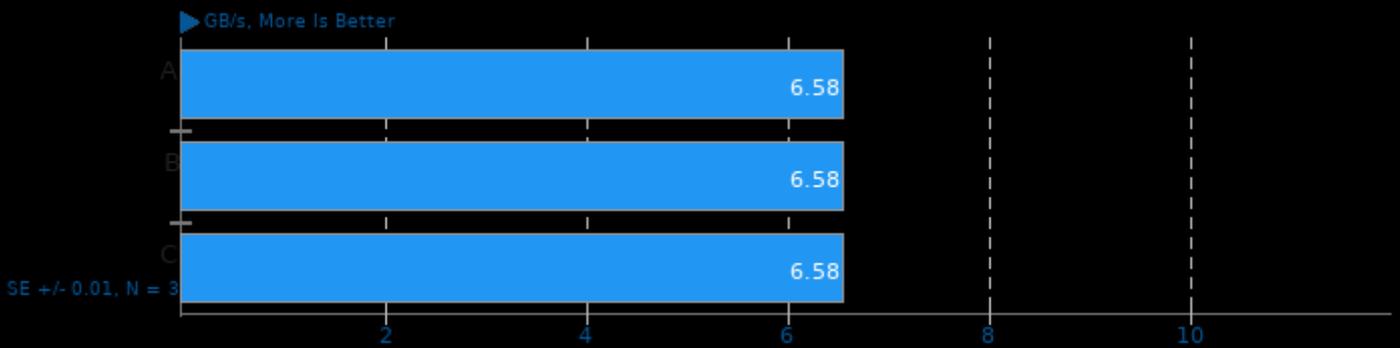
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

simdjson 2.0

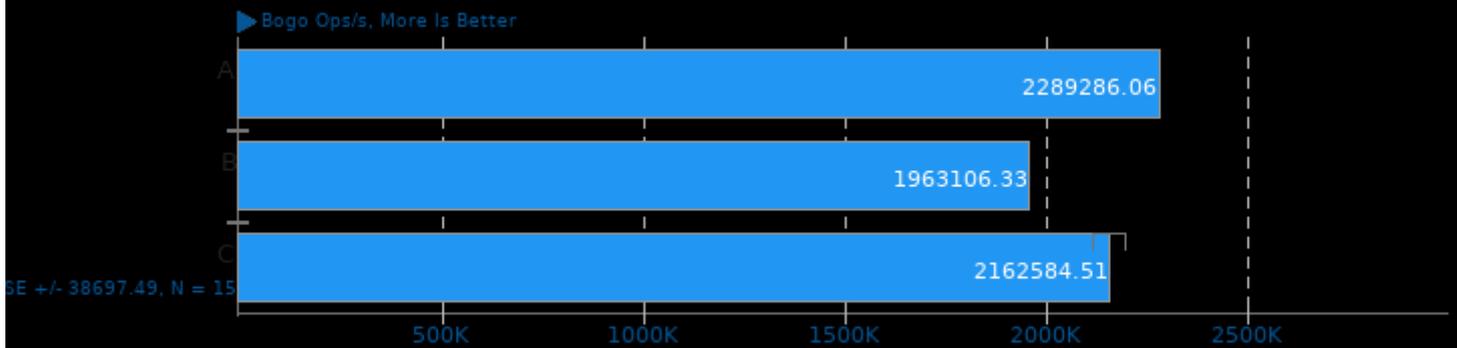
Throughput Test: DistinctUserID



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

Stress-NG 0.14

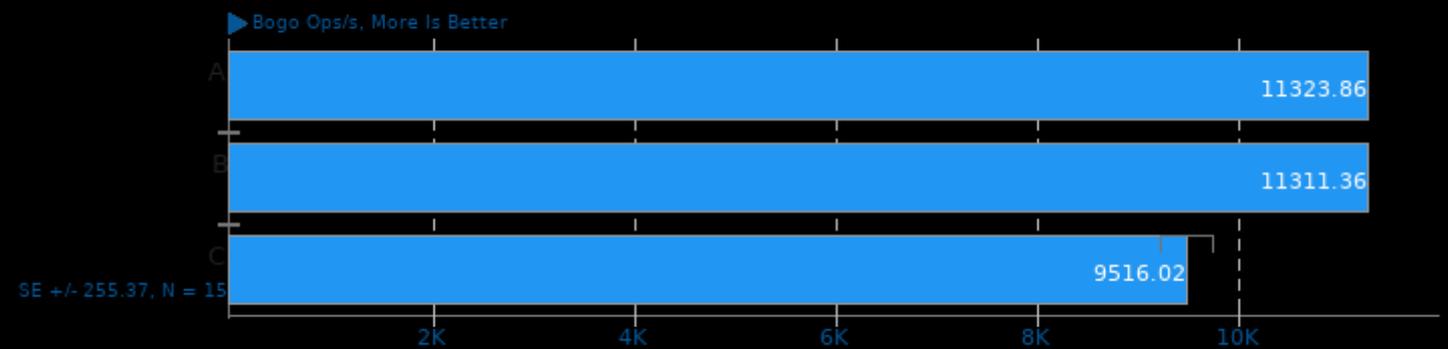
Test: Context Switching



1. (C) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

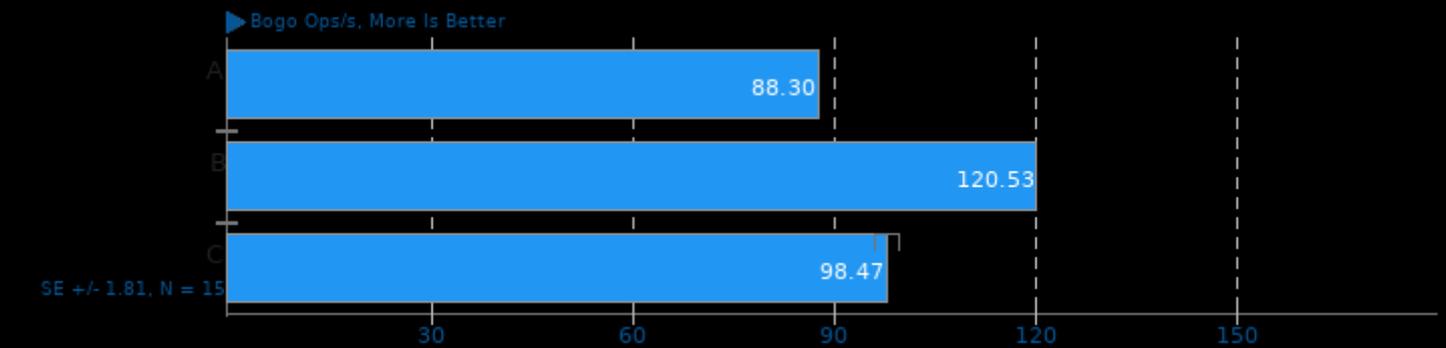
Test: Socket Activity



1. (C) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

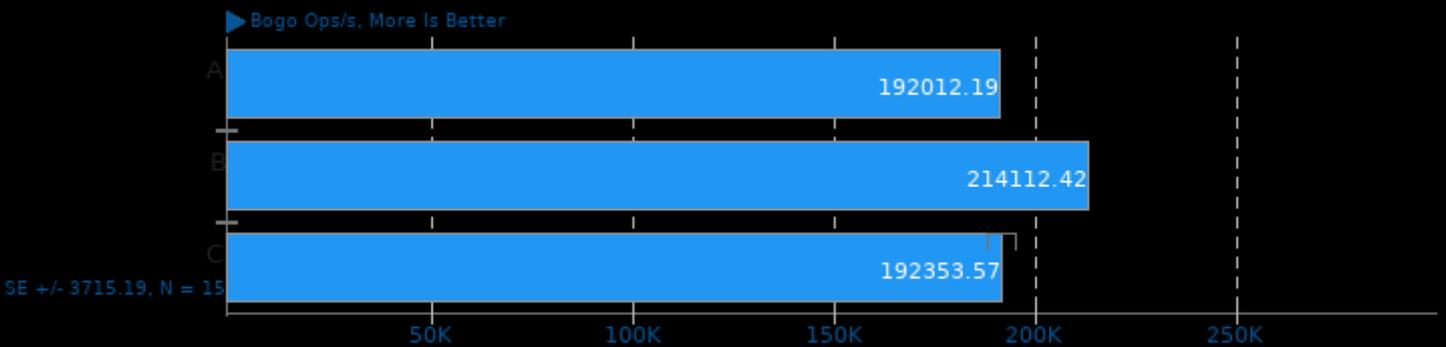
Test: CPU Cache



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

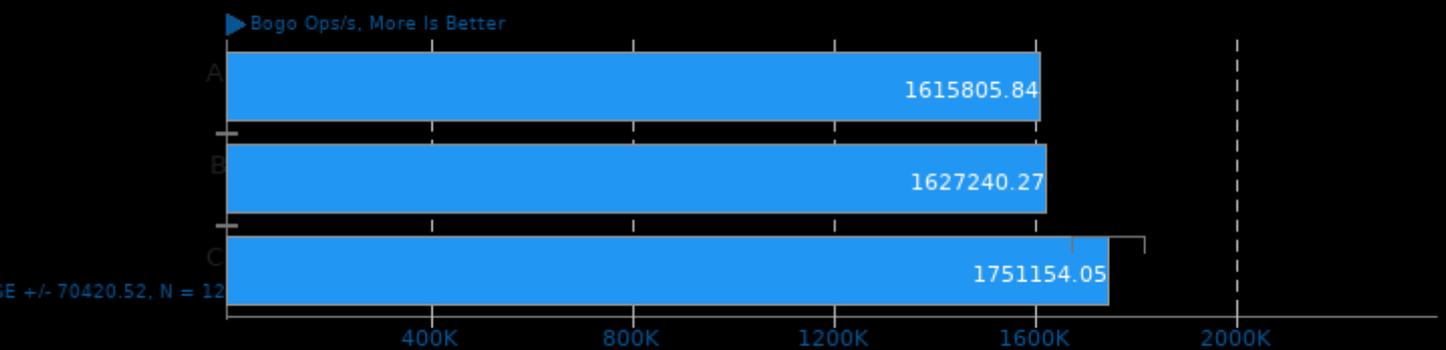
Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

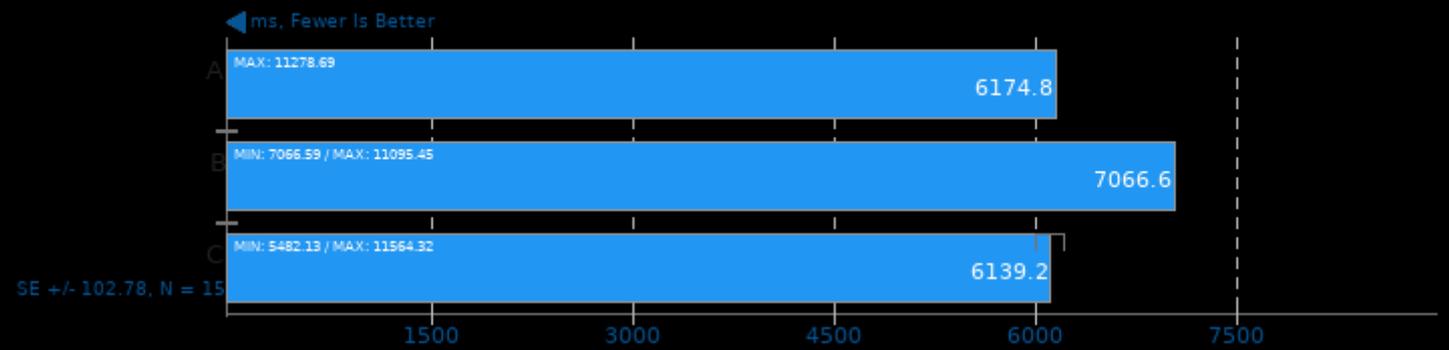
Test: Futex



1. (CC) gcc options: -O2 -std=gnu99 -lm -lapparmor -latomic -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

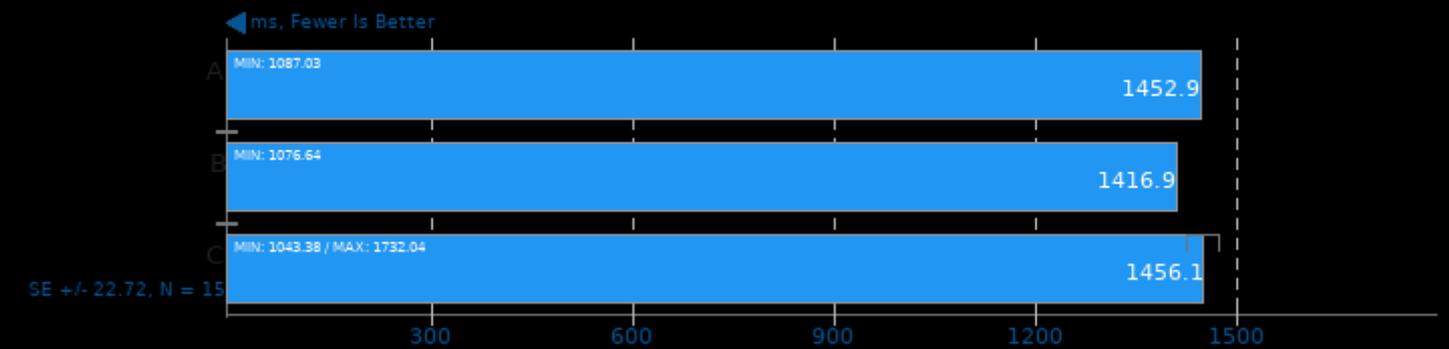
Renaissance 0.14

Test: Savina Reactors.IO

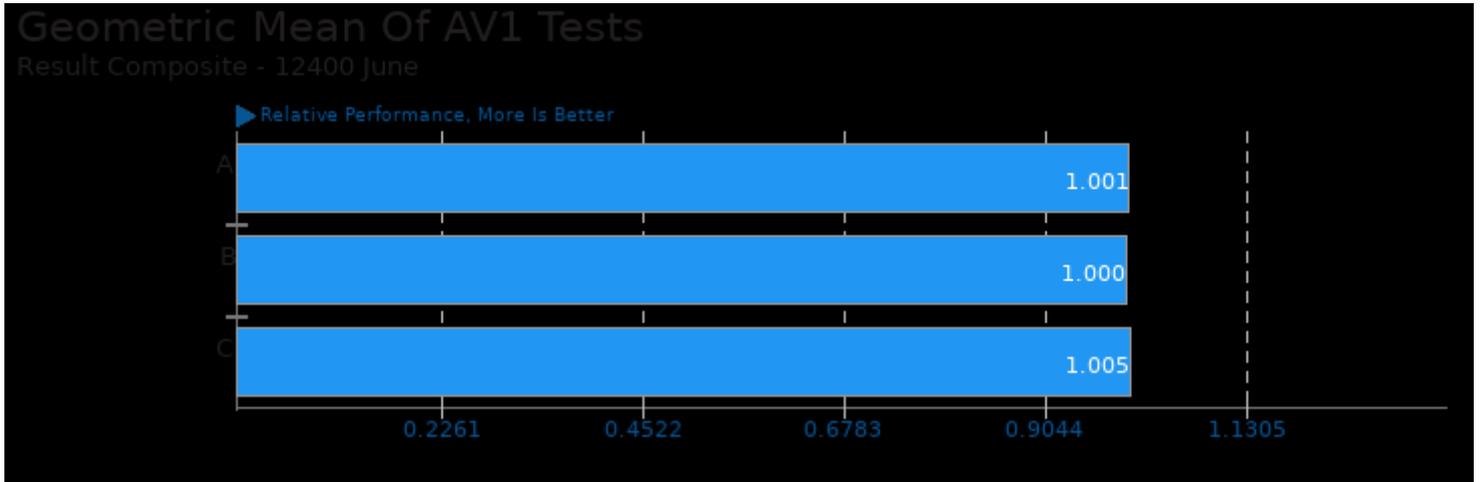


Renaissance 0.14

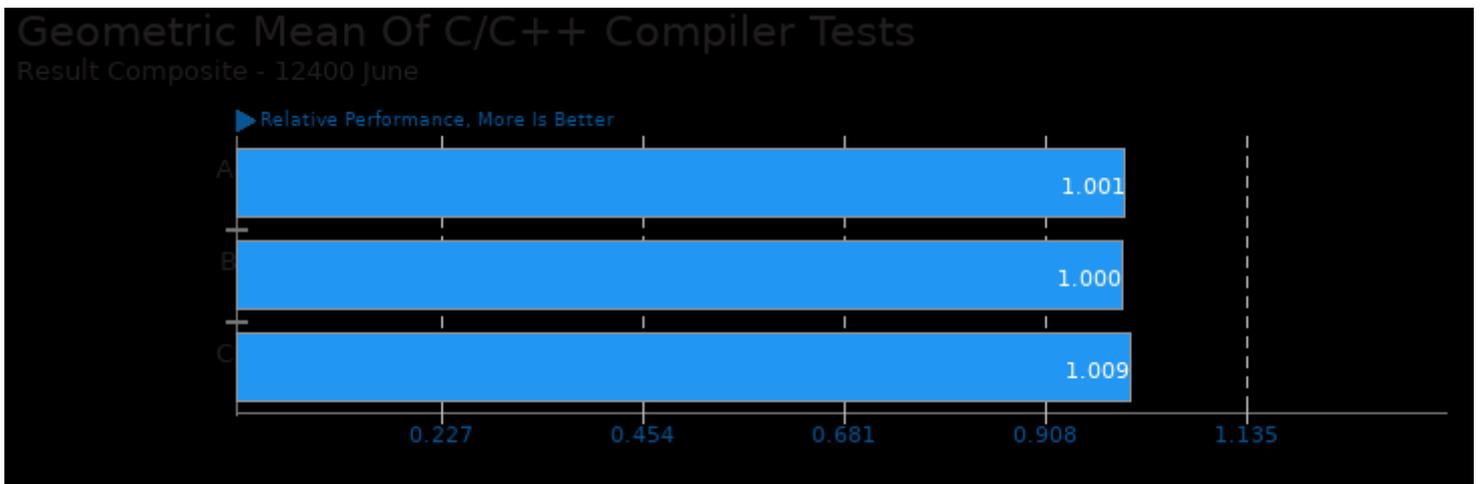
Test: Apache Spark Bayes



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



Geometric mean based upon tests: pts/aom-av1 and pts/svt-av1



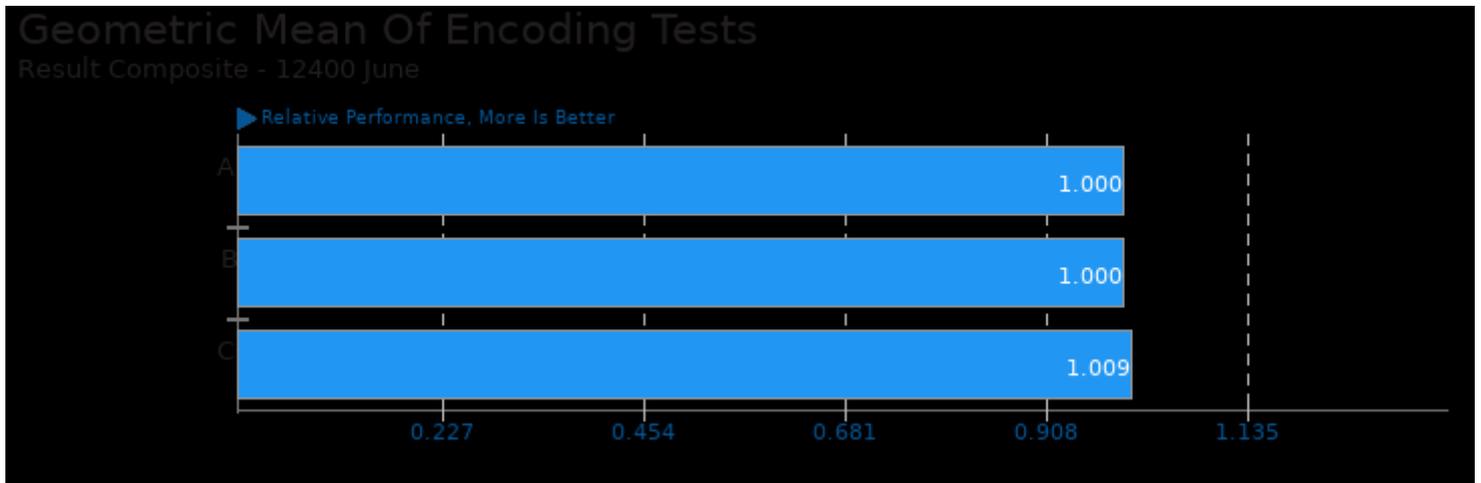
Geometric mean based upon tests: pts/compress-7zip, pts/x264, pts/nginx, pts/aom-av1, pts/svt-av1, pts/svt-vp9, pts/gromacs and pts/nettle



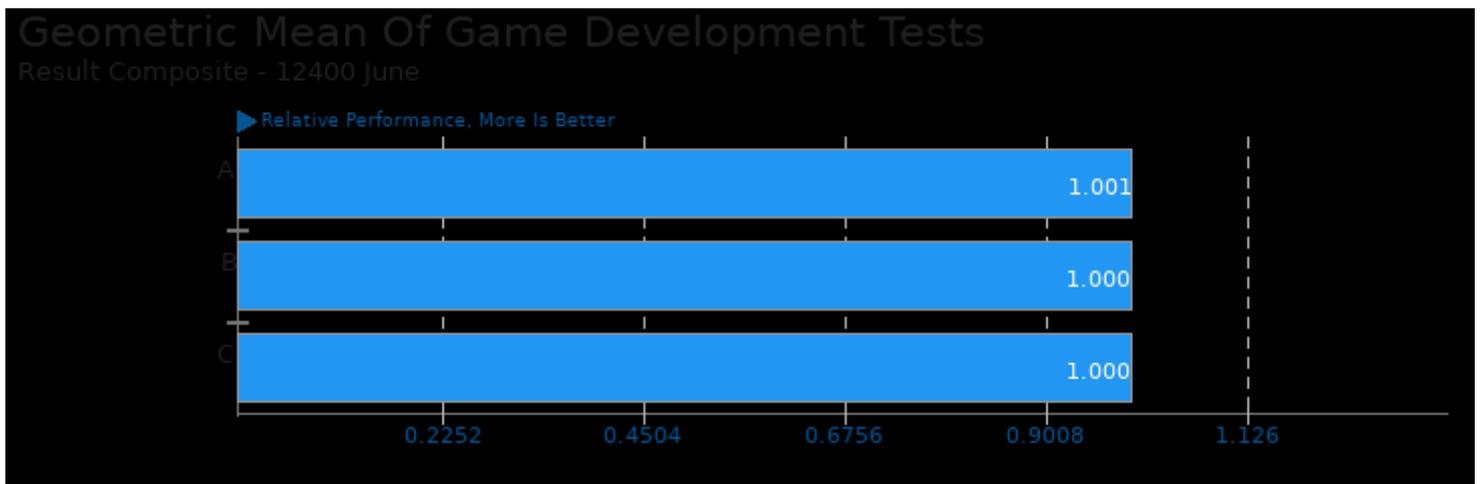
Geometric mean based upon tests: pts/compress-7zip, pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/x264, pts/glibc-bench, pts/nginx, pts/stress-ng, pts/blender and pts/renaissance



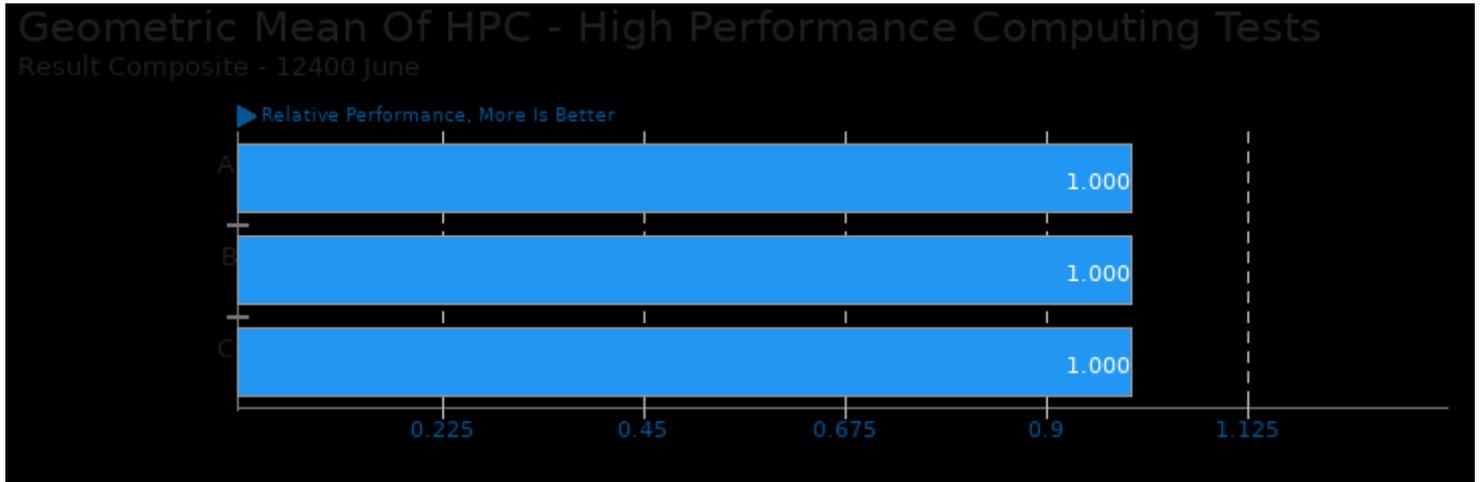
Geometric mean based upon tests: pts/blender, pts/svt-vp9, pts/svt-hevc, pts/x264, pts/aom-av1, pts/svt-av1, pts/webp2 and pts/etcpak



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/x264, pts/aom-av1 and pts/svt-av1



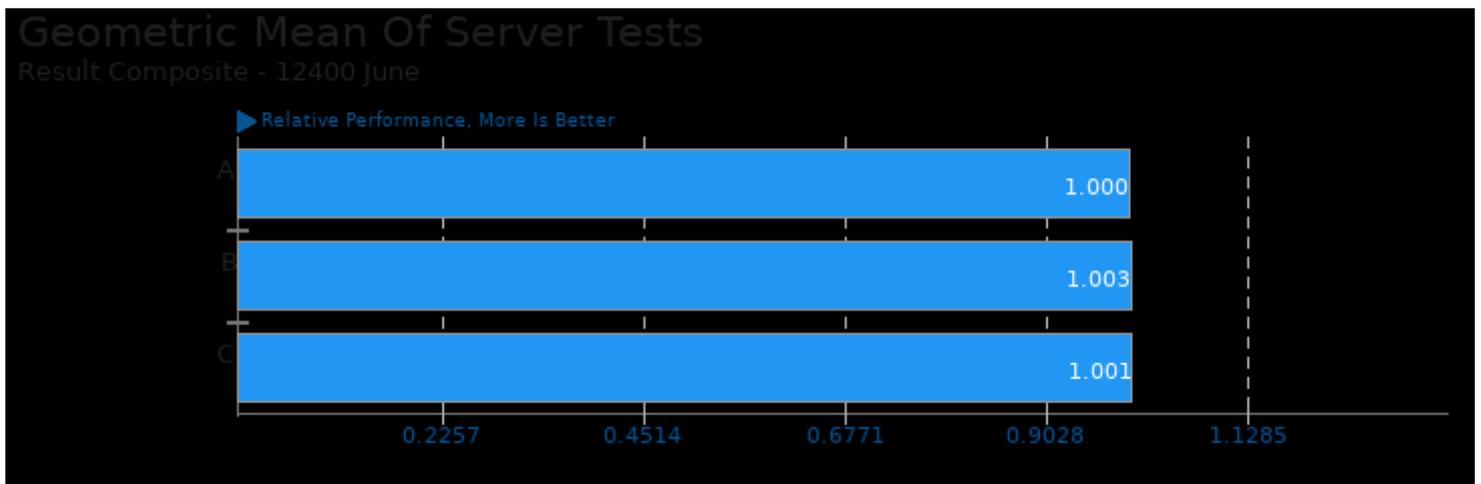
Geometric mean based upon tests: pts/etcpak and pts/blender



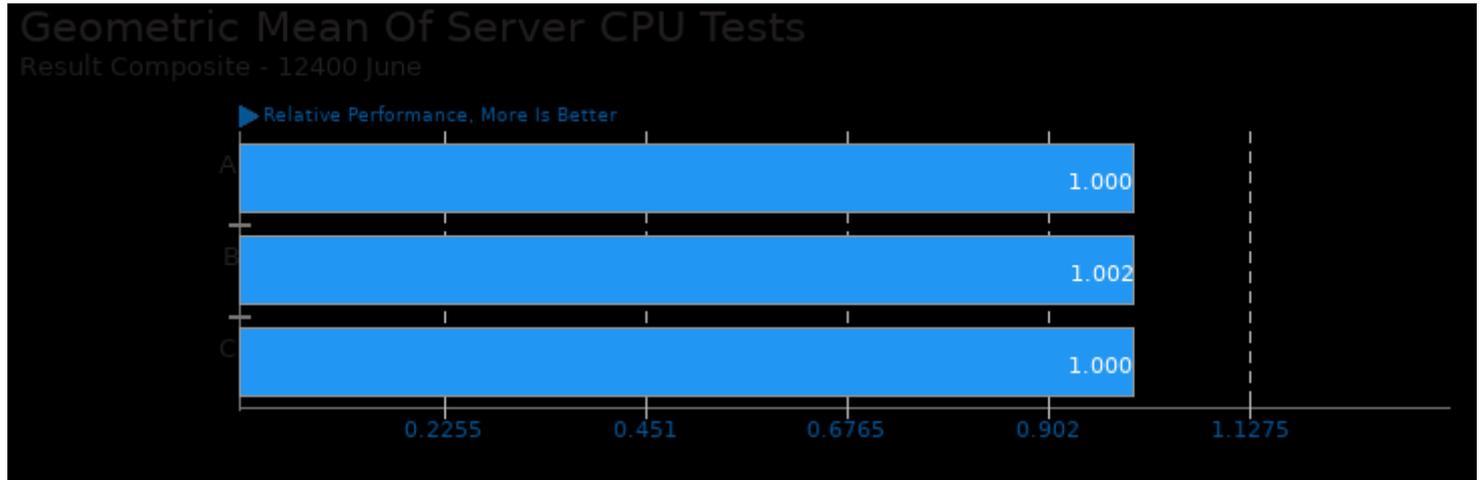
Geometric mean based upon tests: pts/gromacs and pts/tensorflow-lite



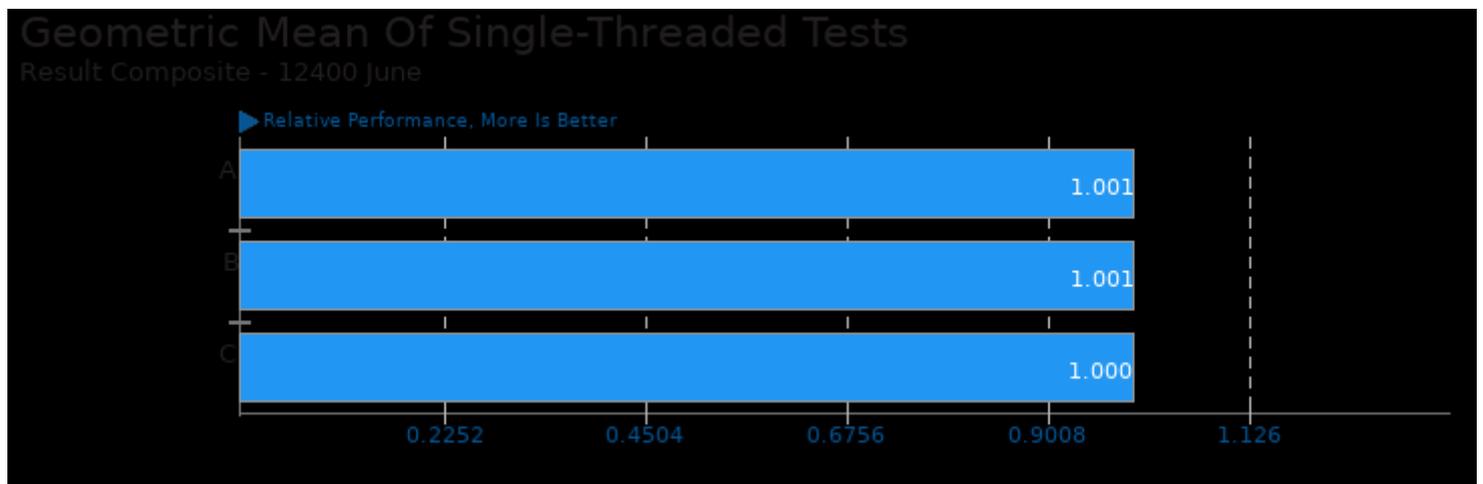
Geometric mean based upon tests: pts/blender, pts/svt-vp9, pts/svt-hevc, pts/x264, pts/aom-av1, pts/svt-av1, pts/gromacs and pts/compress-7zip



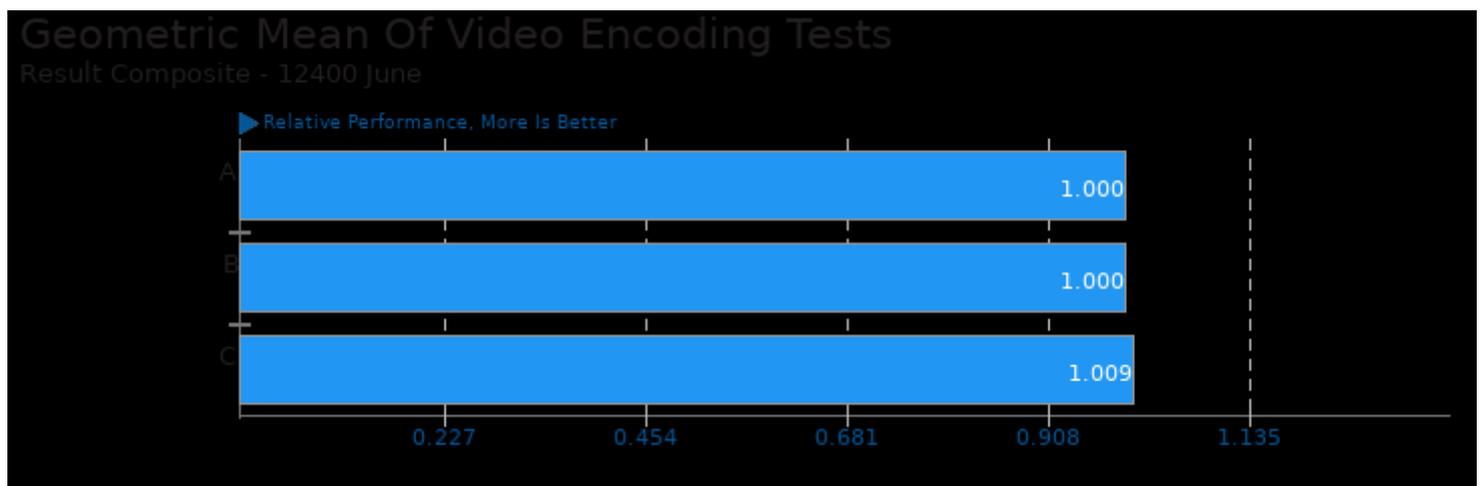
Geometric mean based upon tests: pts/nginx and pts/simdjson



Geometric mean based upon tests: pts/renaissance, pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/x264, pts/compress-7zip, pts/glibc-bench, pts/stress-ng and pts/blender



Geometric mean based upon tests: pts/glibc-bench and pts/nginx



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/x264, pts/aom-av1 and pts/svt-av1

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 05:12.