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EPYC 7702 April 2021

AMD EPYC 7702 64-Core testing with a ASRockRack EPYCD8 (P2.40 BIOS) and ASPEED on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 48% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.001x the speed of the slowest (1). 2 was 1x the speed of 3 and 1 was 0.999x the speed of 2.

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

SVT-VP9 (Tuning: VMAF Optimized - Input: Bosphorus 1080p) at 1.516x

Timed Linux Kernel Compilation (Time To Compile) at 1.077x

AOM AV1 (Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p) at 1.075x

Xcompact3d Incompact3d (Input: input.i3d 129 Cells Per Direction) at 1.074x

ViennaCL (Test: CPU BLAS - dGEMV-T) at 1.053x

Zstd Compression (Compression Level: 8 - Compression Speed) at 1.052x

toyBrot Fractal Generator (Implementation: TBB) at 1.049x

oneDNN (Harness: Deconvolution Batch shapes_1d - Data Type: u8s8f32 - Engine: CPU) at 1.045x

AOM AV1 (Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K) at 1.039x

oneDNN (Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU) at 1.038x.

Test Systems:

1

2

3

Processor: AMD EPYC 7702 64-Core @ 2.00GHz (64 Cores / 128 Threads), Motherboard: ASRockRack EPYCD8 (P2.40 BIOS), Chipset: AMD Starship/Matisse, Memory: 126GB, Disk: 3841GB Micron_9300_MTFDHAL3T8TDP, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel I350

OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc6daily20200921-generic (x86_64) 20200920, Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, 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 ondemand (Boost: Enabled) - CPU Microcode: 0x8301034
 Python Notes: Python 3.8.2

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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	1	2	3
Sysbench - CPU (Events/sec)	96671	96718	96694
Normalized	99.95%	100%	99.98%
Standard Deviation		0%	0%
AOM AV1 - Speed 4 Two-Pass - Bosphorus	3.82	3.82	3.83
4K (FPS)			
Normalized	99.74%	99.74%	100%
Standard Deviation		0.3%	0.5%
AOM AV1 - Speed 6 Realtime - Bosphorus	11.89	11.74	11.74
4K (FPS)			
Normalized	100%	98.74%	98.74%
Standard Deviation		0.6%	0.4%
AOM AV1 - Speed 6 Two-Pass - Bosphorus	6.72	6.98	6.79
4K (FPS)			
Normalized	96.28%	100%	97.28%
Standard Deviation		0.3%	1%

AOM AV1 - Speed 8 Realtime - Bosphorus	22.22	22.18	21.67
4K (FPS)			
Normalized	100%	99.82%	97.52%
Standard Deviation		1.6%	2.4%
AOM AV1 - Speed 9 Realtime - Bosphorus	25.94	25.71	25.99
4K (FPS)			
Normalized	99.81%	98.92%	100%
Standard Deviation		1.4%	0.8%
AOM AV1 - Speed 4 Two-Pass - Bosphorus	5.79	5.77	5.76
1080p (FPS)			
Normalized	100%	99.65%	99.48%
Standard Deviation		0.4%	0.3%
AOM AV1 - Speed 6 Realtime - Bosphorus	18.24	18.22	18.17
1080p (FPS)			
Normalized	100%	99.89%	99.62%
Standard Deviation		0.1%	0.5%
AOM AV1 - Speed 6 Two-Pass - Bosphorus	16.22	16.09	16.04
1080p (FPS)			
Normalized	100%	99.2%	98.89%
Standard Deviation		0.3%	0.3%
AOM AV1 - Speed 8 Realtime - Bosphorus	58.37	54.47	54.32
1080p (FPS)			
Normalized	100%	93.32%	93.06%
Standard Deviation		0.8%	1.2%
AOM AV1 - Speed 9 Realtime - Bosphorus	67.34	65.79	66.10
1080p (FPS)			
Normalized	100%	97.7%	98.16%
Standard Deviation		1.4%	0.1%
SVT-HEVC - 1 - Bosphorus 1080p (FPS)	34.41	34.59	34.45
Normalized	99.48%	100%	99.6%
Standard Deviation		0.4%	0.3%
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	277.91	276.07	279.74
Normalized	99.35%	98.69%	100%
Standard Deviation		0.2%	1%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	462.61	460.86	462.91
Normalized	99.94%	99.56%	100%
Standard Deviation		0.9%	1.4%
SVT-VP9 - VMAF Optimized - Bosphorus	238.14	361.00	360.74
1080p (FPS)			
Normalized	65.97%	100%	99.93%
Standard Deviation		0.3%	0.2%
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	362.92	361.43	363.64
Normalized	99.8%	99.39%	100%
Standard Deviation		0.6%	1.7%
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	279.1	273.59	277.87
Normalized	100%	98.03%	99.56%
Standard Deviation		1.6%	2.4%
simdjson - Kostya (GB/s)	2.12	2.13	2.13
Normalized	99.53%	100%	100%
Standard Deviation		0%	0%
simdjson - LargeRand (GB/s)	0.66	0.66	0.66
Standard Deviation		0%	0%
simdjson - PartialTweets (GB/s)	3.55	3.53	3.53
Normalized	100%	99.44%	99.44%

	Standard Deviation	0.4%	0.2%
simdjson - DistinctUserID (GB/s)	3.59	3.61	3.59
Normalized	99.45%	100%	99.45%
Standard Deviation	0.2%	0.3%	
ViennaCL - CPU BLAS - sCOPY (GB/s)	757	764	753
Normalized	99.08%	100%	98.56%
Standard Deviation	2.7%	1.3%	
ViennaCL - CPU BLAS - sAXPY (GB/s)	687	679	688
Normalized	99.85%	98.69%	100%
Standard Deviation	1.8%	0.1%	
ViennaCL - CPU BLAS - sDOT (GB/s)	461	507	479
Normalized	90.93%	100%	94.48%
Standard Deviation	9.3%	4.9%	
ViennaCL - CPU BLAS - dCOPY (GB/s)	1390	1367	1383
Normalized	100%	98.35%	99.5%
Standard Deviation	1.8%	1.1%	
ViennaCL - CPU BLAS - dAXPY (GB/s)	1320	1283	1327
Normalized	99.47%	96.68%	100%
Standard Deviation	5.6%	0.4%	
ViennaCL - CPU BLAS - dDOT (GB/s)	896	904	904
Normalized	99.12%	100%	100%
Standard Deviation	1.3%		
ViennaCL - CPU BLAS - dGEMV-N (GB/s)	30.9	28.5	27.3
Normalized	100%	92.23%	88.35%
Standard Deviation	2.8%	6.7%	
ViennaCL - CPU BLAS - dGEMV-T (GB/s)	636	620	653
Normalized	97.4%	94.95%	100%
Standard Deviation	3.9%	2.1%	
ViennaCL - CPU BLAS - dGEMM-NN (GFLOPs/s)	93	91.4	92.5
Normalized	100%	98.28%	99.46%
Standard Deviation	0.7%	0.3%	
ViennaCL - CPU BLAS - dGEMM-NT (GFLOPs/s)	90.5	89.7	89.8
Normalized	100%	99.12%	99.23%
Standard Deviation	0.3%	0.3%	
ViennaCL - CPU BLAS - dGEMM-TN (GFLOPs/s)	95.1	94.6	94.7
Normalized	100%	99.47%	99.58%
Standard Deviation	0.1%	0.3%	
ViennaCL - CPU BLAS - dGEMM-TT (GFLOPs/s)	92.9	92.9	92.5
Normalized	100%	100%	99.57%
Standard Deviation	0.3%	0.6%	
GNU GMP GMPbench - Total Time (GMPbench Score)	4542	4546	4542
Normalized	99.9%	100%	99.91%
Zstd Compression - 3 - Compression Speed (MB/s)	5279	5244	5250
Normalized	100%	99.32%	99.45%
Standard Deviation	0.1%	0.1%	
Zstd Compression - 8 - Compression Speed (MB/s)	2510	2441	2386
Normalized	100%	97.25%	95.06%

	Standard Deviation	1.9%	0.8%
Zstd Compression - 8 - D.S (MB/s)	2764	2770	2769
Normalized	99.76%	100%	99.94%
Standard Deviation	0.1%	0.4%	
Zstd Compression - 19 - Compression Speed (MB/s)	83.5	82.1	82.3
Normalized	100%	98.32%	98.56%
Standard Deviation	0.9%	2.6%	
Zstd Compression - 19 - D.S (MB/s)	2560	2565	2556
Normalized	99.79%	100%	99.65%
Standard Deviation	0.3%	0.5%	
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	410.5	404.5	408.0
Normalized	100%	98.54%	99.39%
Standard Deviation	2.6%	1.4%	
Zstd Compression - 3, Long Mode - D.S	2892	2888	2885
Normalized	100%	99.85%	99.73%
Standard Deviation	0%	0.2%	
Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	444.1	444.0	473.1
Normalized	93.87%	93.85%	100%
Standard Deviation	0.3%	7.2%	
Zstd Compression - 8, Long Mode - D.S	2986	2993	2990
Normalized	99.79%	100%	99.9%
Standard Deviation	0.3%	0.3%	
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	41.5	41.1	41.2
Normalized	100%	99.04%	99.28%
Standard Deviation	0.4%	1%	
Zstd Compression - 19, Long Mode - D.S	2552	2554	2553
Normalized	99.94%	100%	99.97%
Standard Deviation	0.2%	0.1%	
Botan - KASUMI (MiB/s)	77.653	77.661	77.663
Normalized	99.99%	100%	100%
Standard Deviation	0%	0%	
Botan - KASUMI - Decrypt (MiB/s)	75.091	75.101	75.103
Normalized	99.98%	100%	100%
Standard Deviation	0%	0.1%	
Botan - AES-256 (MiB/s)	4560	4559	4556
Normalized	100%	99.96%	99.9%
Standard Deviation	0%	0.2%	
Botan - AES-256 - Decrypt (MiB/s)	4560	4559	4555
Normalized	100%	99.97%	99.89%
Standard Deviation	0%	0.2%	
Botan - Twofish (MiB/s)	302.438	302.492	302.285
Normalized	99.98%	100%	99.93%
Standard Deviation	0%	0.1%	
Botan - Twofish - Decrypt (MiB/s)	302.234	302.337	302.180
Normalized	99.97%	100%	99.95%
Standard Deviation	0%	0%	
Botan - Blowfish (MiB/s)	369.321	369.219	368.993
Normalized	100%	99.97%	99.91%
Standard Deviation	0.1%	0.1%	

Botan - Blowfish - Decrypt (MiB/s)	367.42	367.797	367.804
Normalized	99.9%	100%	100%
Standard Deviation	0%	0%	0%
Botan - CAST-256 (MiB/s)	120.055	120.065	120.055
Normalized	99.99%	100%	99.99%
Standard Deviation	0%	0%	0%
Botan - CAST-256 - Decrypt (MiB/s)	120.066	120.058	120.096
Normalized	99.98%	99.97%	100%
Standard Deviation	0%	0.1%	0.2%
Botan - ChaCha20Poly1305 (MiB/s)	633.174	635.007	635.338
Normalized	99.66%	99.95%	100%
Standard Deviation	0.1%	0.1%	0.2%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s)	632.656	631.089	630.505
Normalized	100%	99.75%	99.66%
Standard Deviation	0.1%	0.1%	0.1%
LuaRadio - F.B.t.B.F.F (MiB/s)	451.2	452.0	452.2
Normalized	99.78%	99.96%	100%
Standard Deviation	0.1%	0.1%	0.5%
LuaRadio - F.D.F (MiB/s)	339.2	339.8	339.9
Normalized	99.79%	99.97%	100%
Standard Deviation	0.1%	0.1%	0%
LuaRadio - Hilbert Transform (MiB/s)	82.7	82.7	82.7
Normalized	100%	100%	0%
LuaRadio - Complex Phase (MiB/s)	515.5	513.8	514.5
Normalized	100%	99.67%	99.81%
Standard Deviation	0.1%	0.1%	0.2%
GNU Radio - F.B.t.B.F.F (MiB/s)	331.7	323.0	322.6
Normalized	100%	97.38%	97.26%
Standard Deviation	2.1%	2.1%	2.1%
GNU Radio - S.S.C (MiB/s)	2914	2868	2879
Normalized	100%	98.44%	98.82%
Standard Deviation	0.3%	0.3%	1.7%
GNU Radio - FIR Filter (MiB/s)	534.5	537.3	535.1
Normalized	99.48%	100%	99.59%
Standard Deviation	0.3%	0.3%	0.2%
GNU Radio - IIR Filter (MiB/s)	486.7	489.7	488.3
Normalized	99.39%	100%	99.71%
Standard Deviation	0.6%	0.6%	0.3%
GNU Radio - F.D.F (MiB/s)	744	734.1	730.1
Normalized	100%	98.67%	98.13%
Standard Deviation	0.6%	0.6%	1.4%
GNU Radio - Hilbert Transform (MiB/s)	346.5	346.1	347.1
Normalized	99.83%	99.71%	100%
Standard Deviation	0.2%	0.2%	1%
Sysbench - RAM / Memory (MiB/sec)	6128	6105	6121
Normalized	100%	99.62%	99.89%
Standard Deviation	0.3%	0.3%	0.3%
Stockfish - Total Time (Nodes/s)	134641813	133169802	132630158
Normalized	100%	98.91%	98.51%
Standard Deviation	2.9%	2.9%	2.8%
Liquid-DSP - 1 - 256 - 57 (samples/s)	59654000	59569333	59520333
Normalized	100%	99.86%	99.78%
Standard Deviation	0.1%	0.1%	0.2%
Liquid-DSP - 2 - 256 - 57 (samples/s)	118920000	119036667	119086667
Normalized	99.86%	99.96%	100%

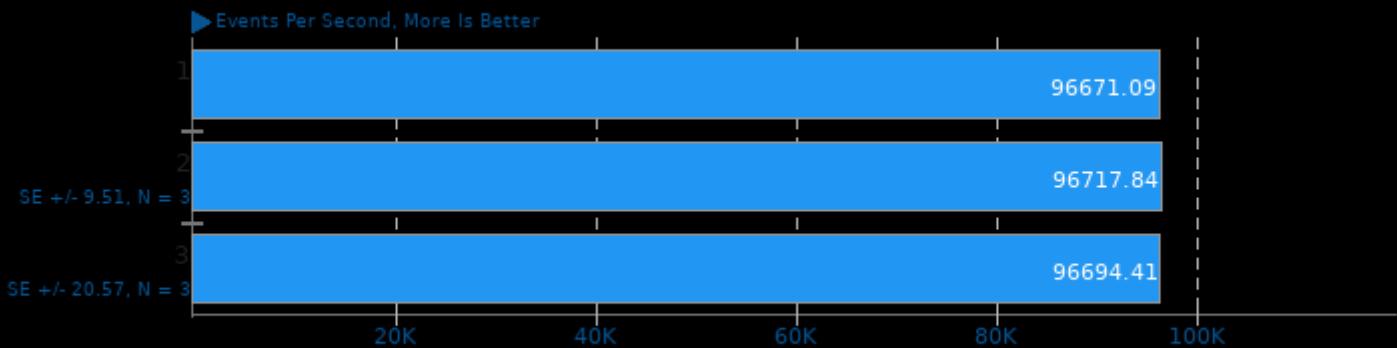
	Standard Deviation	0%	0.1%
Liquid-DSP - 4 - 256 - 57 (samples/s)	237970000	238236667	238053333
	Normalized	99.89%	100%
	Standard Deviation	0.1%	0.1%
Liquid-DSP - 8 - 256 - 57 (samples/s)	475650000	476116667	476420000
	Normalized	99.84%	99.94%
	Standard Deviation	0.2%	0.1%
Liquid-DSP - 16 - 256 - 57 (samples/s)	937750000	936776667	936146667
	Normalized	100%	99.9%
	Standard Deviation	0.2%	0.2%
Liquid-DSP - 32 - 256 - 57 (samples/s)	1690600000	1693066667	1691266667
	Normalized	99.85%	100%
	Standard Deviation	0%	0%
Liquid-DSP - 64 - 256 - 57 (samples/s)	2715700000	2718266667	2727266667
	Normalized	99.58%	99.67%
	Standard Deviation	0.3%	0.1%
Liquid-DSP - 128 - 256 - 57 (samples/s)	3129700000	3124233333	3119400000
	Normalized	100%	99.83%
	Standard Deviation	0.1%	0%
toyBrot Fractal Generator - TBB (ms)	7471	7244	7119
	Normalized	95.29%	98.27%
	Standard Deviation	0.8%	0.3%
toyBrot Fractal Generator - OpenMP (ms)	7848	7941	7921
	Normalized	100%	98.83%
	Standard Deviation	0.4%	0.3%
toyBrot Fractal Generator - C++ Tasks (ms)	7599	7579	7611
	Normalized	99.74%	100%
	Standard Deviation	2.5%	0.7%
toyBrot Fractal Generator - C++ Threads	7207	7278	7258
	Normalized	100%	99.02%
	Standard Deviation	0.3%	0.7%
oneDNN - IP Shapes 1D - f32 - CPU (ms)	1.27985	1.27544	1.28764
	Normalized	99.66%	100%
	Standard Deviation	0.2%	1.5%
oneDNN - IP Shapes 3D - f32 - CPU (ms)	5.04307	5.04320	5.05103
	Normalized	100%	100%
	Standard Deviation	0.1%	0.1%
oneDNN - IP Shapes 1D - u8s8f32 - CPU (ms)	1.48314	1.47048	1.46707
	Normalized	98.92%	99.77%
	Standard Deviation	0.7%	0.1%
oneDNN - IP Shapes 3D - u8s8f32 - CPU (ms)	0.998801	0.980323	0.986806
	Normalized	98.15%	100%
	Standard Deviation	0.2%	0.3%
oneDNN - C.B.S.A - f32 - CPU (ms)	1.00901	1.00899	1.00894
	Normalized	99.99%	100%
	Standard Deviation	0.2%	0.3%
oneDNN - D.B.s - f32 - CPU (ms)	1.71993	1.74774	1.73568
	Normalized	100%	98.41%
	Standard Deviation	0.8%	0.1%
oneDNN - D.B.s - f32 - CPU (ms)	2.67016	2.67036	2.66877
	Normalized	99.95%	99.94%
	Standard Deviation	0.5%	0%
oneDNN - C.B.S.A - u8s8f32 - CPU (ms)	3.454	3.46141	3.45314
	Normalized	99.98%	99.76%
	Standard Deviation	0.2%	0.3%

oneDNN - D.B.s - u8s8f32 - CPU (ms)	0.911802	0.872769	0.893830
Normalized	95.72%	100%	97.64%
Standard Deviation		2.7%	1.5%
oneDNN - D.B.s - u8s8f32 - CPU (ms)	1.22494	1.222224	1.21841
Normalized	99.47%	99.69%	100%
Standard Deviation		0.1%	0.3%
oneDNN - R.N.N.T - f32 - CPU (ms)	2089	2098	2095
Normalized	100%	99.57%	99.71%
Standard Deviation		1%	0.3%
oneDNN - R.N.N.I - f32 - CPU (ms)	732.05	732.625	732.382
Normalized	100%	99.92%	99.95%
Standard Deviation		0.3%	0.2%
oneDNN - R.N.N.T - u8s8f32 - CPU (ms)	2082	2085	2123
Normalized	100%	99.82%	98.06%
Standard Deviation		0.3%	0.9%
oneDNN - R.N.N.I - u8s8f32 - CPU (ms)	730.784	732.810	733.512
Normalized	100%	99.72%	99.63%
Standard Deviation		0.4%	0.3%
oneDNN - M.M.B.S.T - f32 - CPU (ms)	0.433838	0.446141	0.450310
Normalized	100%	97.24%	96.34%
Standard Deviation		0.4%	0.6%
oneDNN - R.N.N.T - bf16bf16bf16 - CPU (ms)	2083	2085	2094
Normalized	100%	99.9%	99.47%
Standard Deviation		0.1%	0.5%
oneDNN - R.N.N.I - bf16bf16bf16 - CPU (ms)	734.173	732.294	732.483
Normalized	99.74%	100%	99.97%
Standard Deviation		0.1%	0%
oneDNN - M.M.B.S.T - u8s8f32 - CPU (ms)	1.14965	1.15166	1.15391
Normalized	100%	99.83%	99.63%
Standard Deviation		0.1%	0.3%
Xcompact3d Incompact3d - X.b.i.i (sec)	689.604065	690.480672	691.061747
Normalized	100%	99.87%	99.79%
Standard Deviation		0.2%	0.2%
Xcompact3d Incompact3d - i.i.1.C.P.D (sec)	5.54909182	5.96101077	5.68558963
Normalized	100%	93.09%	97.6%
Standard Deviation		2.6%	2.6%
Xcompact3d Incompact3d - i.i.1.C.P.D (sec)	25.8832493	25.5524209	25.6117503
Normalized	98.72%	100%	99.77%
Standard Deviation		1.5%	1.9%
libavif avifenc - 0 (sec)	53.306	53.216	53.287
Normalized	99.83%	100%	99.87%
Standard Deviation		0%	0%
libavif avifenc - 2 (sec)	28.412	28.391	28.414
Normalized	99.93%	100%	99.92%
Standard Deviation		0.2%	0.1%
libavif avifenc - 6 (sec)	10.442	10.468	10.488
Normalized	100%	99.75%	99.56%
Standard Deviation		0.2%	0.2%
libavif avifenc - 10 (sec)	3.712	3.754	3.773
Normalized	100%	98.88%	98.38%
Standard Deviation		0.3%	0.1%
libavif avifenc - 6, Lossless (sec)	29.438	29.500	29.556
Normalized	100%	99.79%	99.6%
Standard Deviation		0%	0.1%
libavif avifenc - 10, Lossless (sec)	6.767	6.796	6.809

	Normalized	100%	99.57%	99.38%
	Standard Deviation		0.3%	0.4%
Timed Linux Kernel Compilation - Time To Compile (sec)	33.55	31.155		31.162
	Normalized	92.86%	100%	99.98%
	Standard Deviation		2.9%	2.9%
Timed Mesa Compilation - Time To Compile (sec)	23.304	23.232	23.232	
	Normalized	99.69%	100%	100%
	Standard Deviation		0.1%	0.2%
Timed Node.js Compilation - Time To Compile (sec)	128.184	128.468		128.378
	Normalized	100%	99.78%	99.85%
	Standard Deviation		0.4%	0%
Timed Erlang/OTP Compilation - Time To Compile (sec)	157.679	157.479	157.302	
	Normalized	99.76%	99.89%	100%
	Standard Deviation		0.5%	0.6%
Blender - BMW27 - CPU-Only (sec)	38.74	38.88	39.04	
	Normalized	100%	99.64%	99.23%
	Standard Deviation		0.5%	1.1%
Blender - Classroom - CPU-Only (sec)	100.03	100.58		100.08
	Normalized	100%	99.45%	99.95%
	Standard Deviation		1%	0.1%
Blender - Fishy Cat - CPU-Only (sec)	55	54.80	55.02	
	Normalized	99.64%	100%	99.6%
	Standard Deviation		0.2%	0.1%
Blender - Barbershop - CPU-Only (sec)	142.58	142.94	142.46	
	Normalized	99.92%	99.66%	100%
	Standard Deviation		0.1%	0.1%
Blender - Pabellon Barcelona - CPU-Only	116.52	117.14		116.66
	Normalized	100%	99.47%	99.88%
	Standard Deviation		0.5%	0.3%

Sysbench 1.0.20

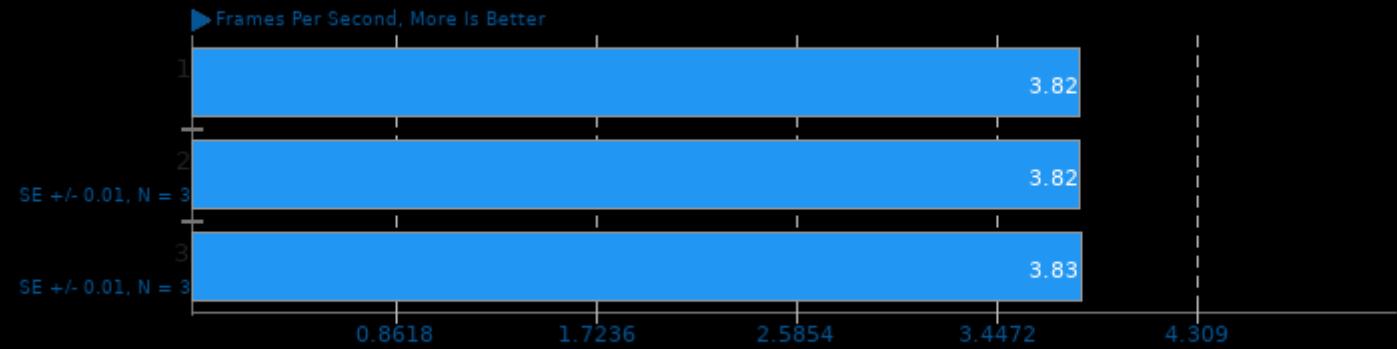
Test: CPU



1. (CC) gcc options: -pthread -O2 -funroll-loops -O3 -march=native -rdynamic -ldl -lai0 -lm

AOM AV1 3.0

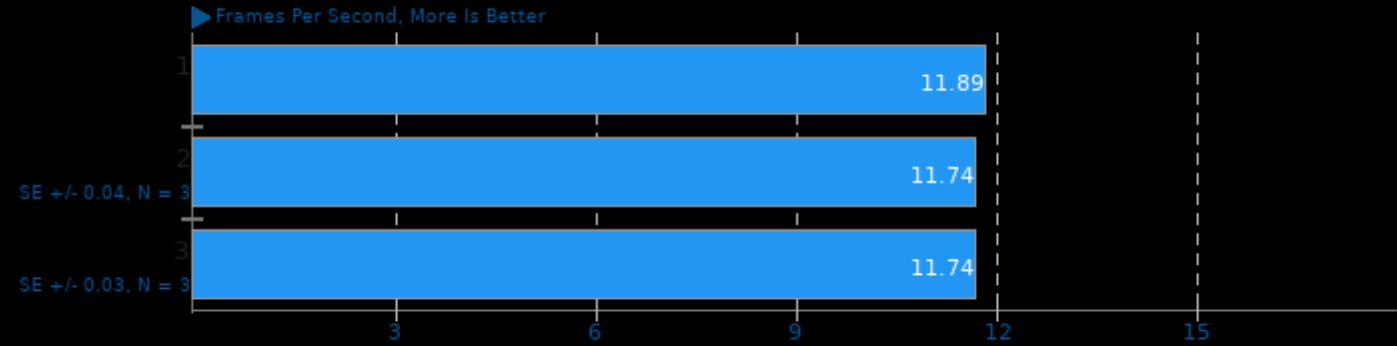
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K



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

AOM AV1 3.0

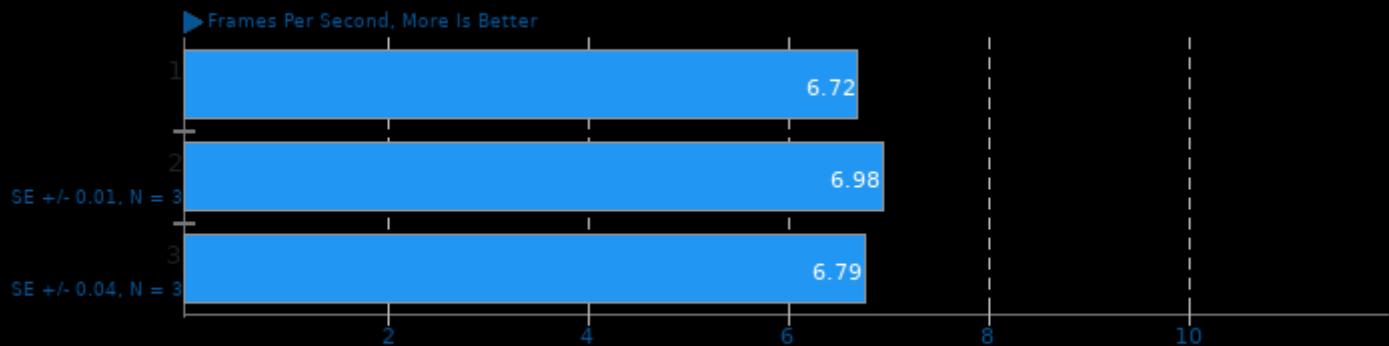
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.0

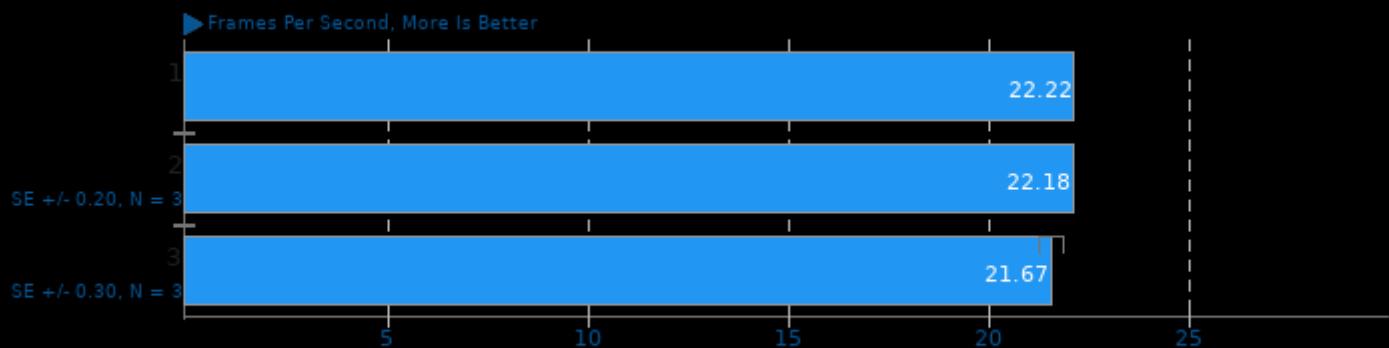
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-rtti -fno-threadsafe-statics

AOM AV1 3.0

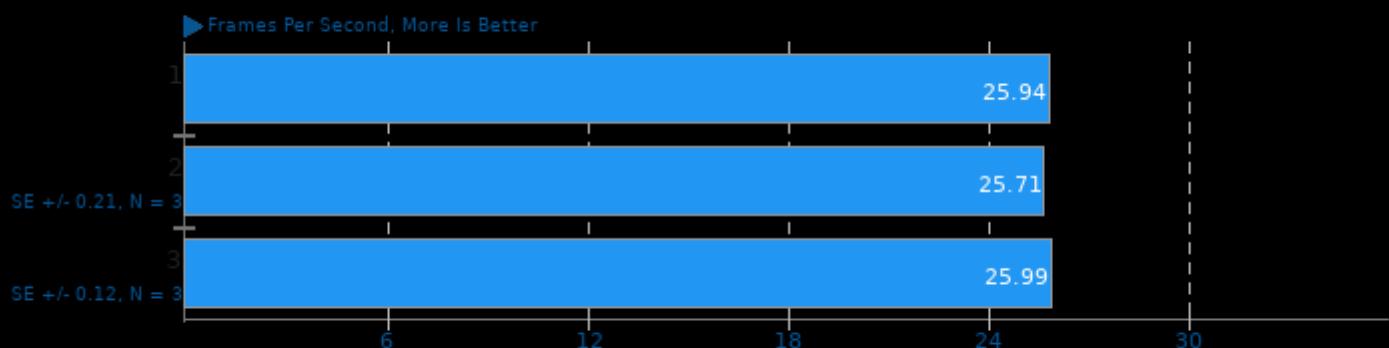
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-rtti -fno-threadsafe-statics

AOM AV1 3.0

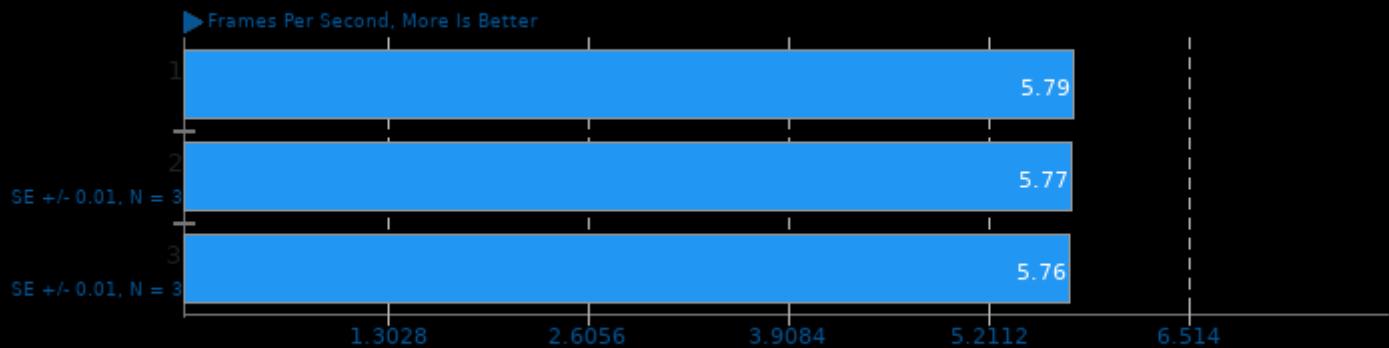
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-rtti -fno-threadsafe-statics

AOM AV1 3.0

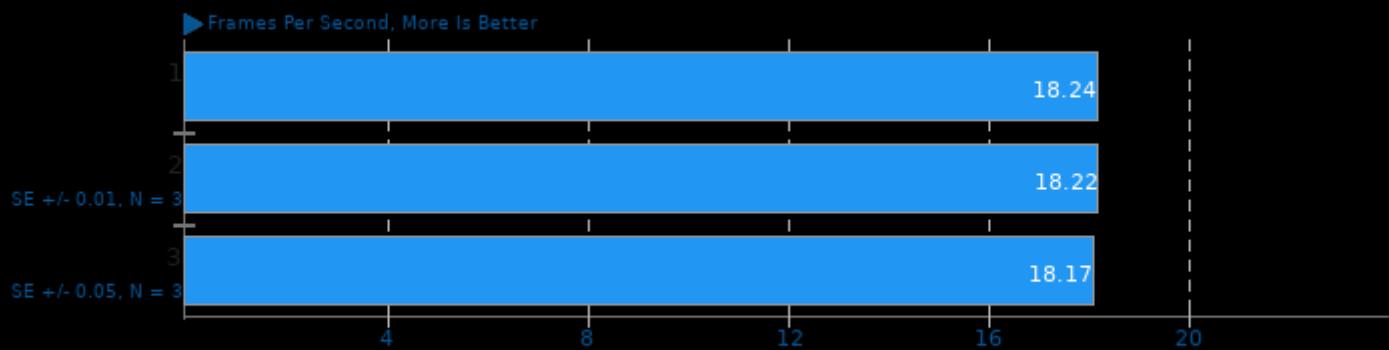
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p



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

AOM AV1 3.0

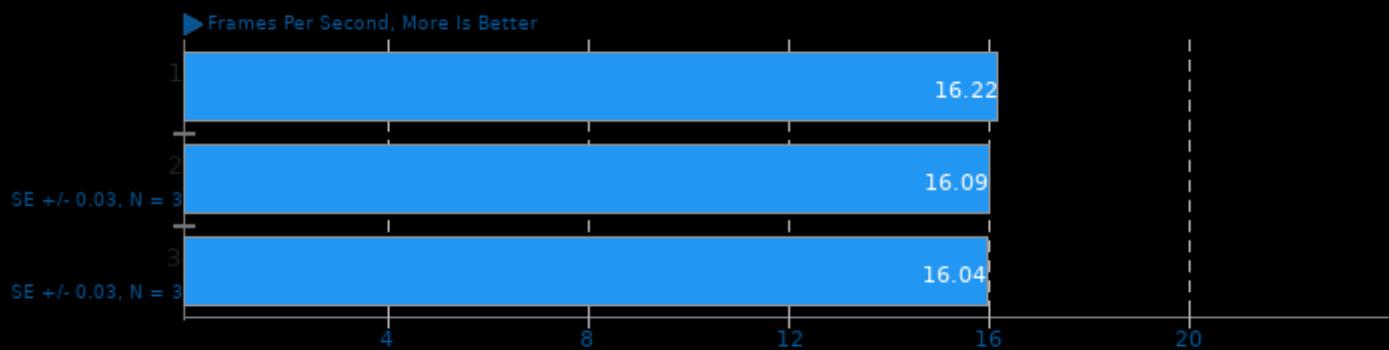
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p



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

AOM AV1 3.0

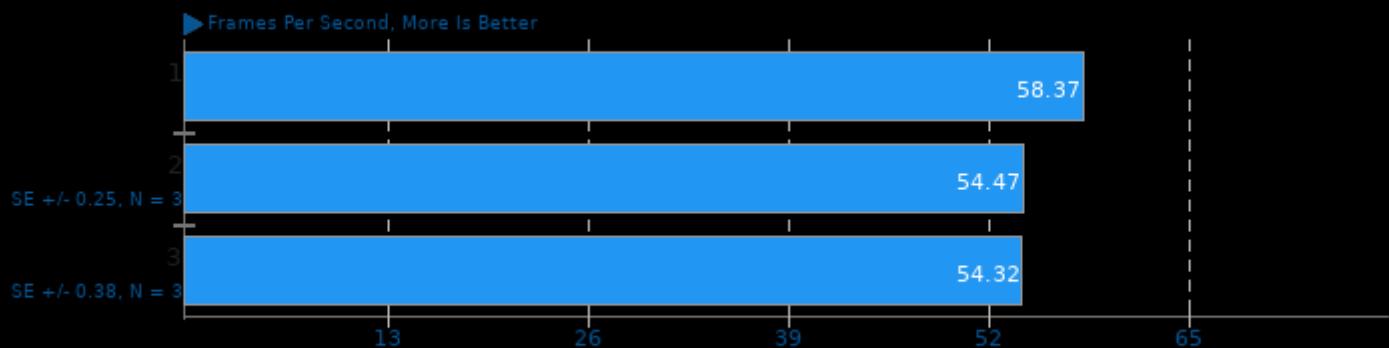
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p



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

AOM AV1 3.0

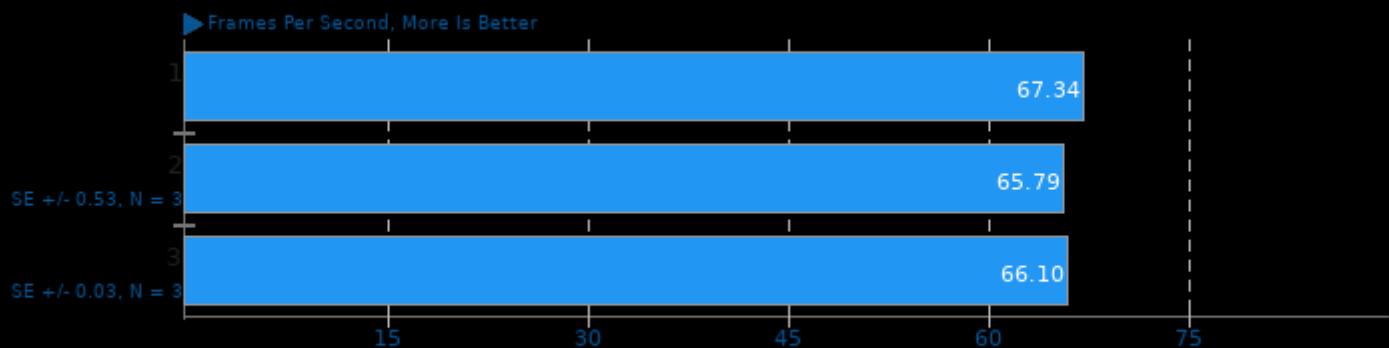
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fPIC -fPIE -fPIC -O2 -pie -rdynamic -lpthread

AOM AV1 3.0

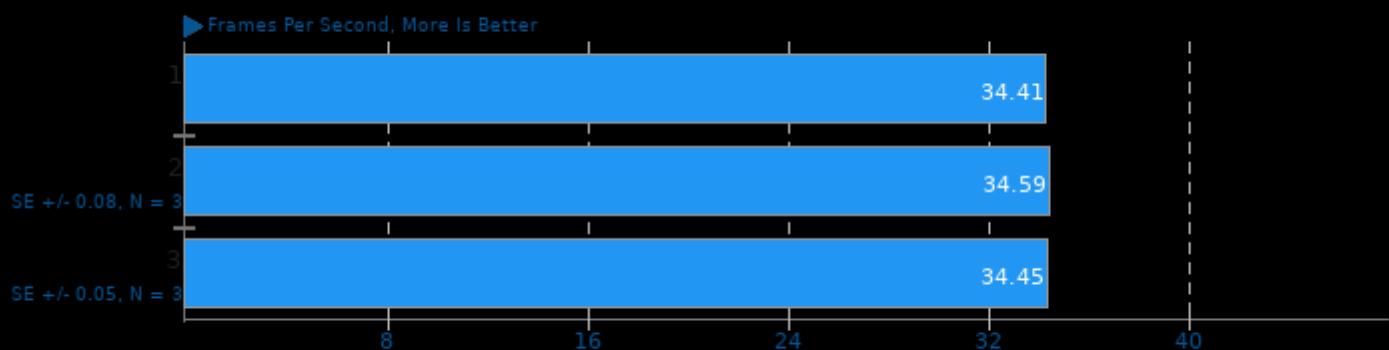
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p



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

SVT-HEVC 1.5.0

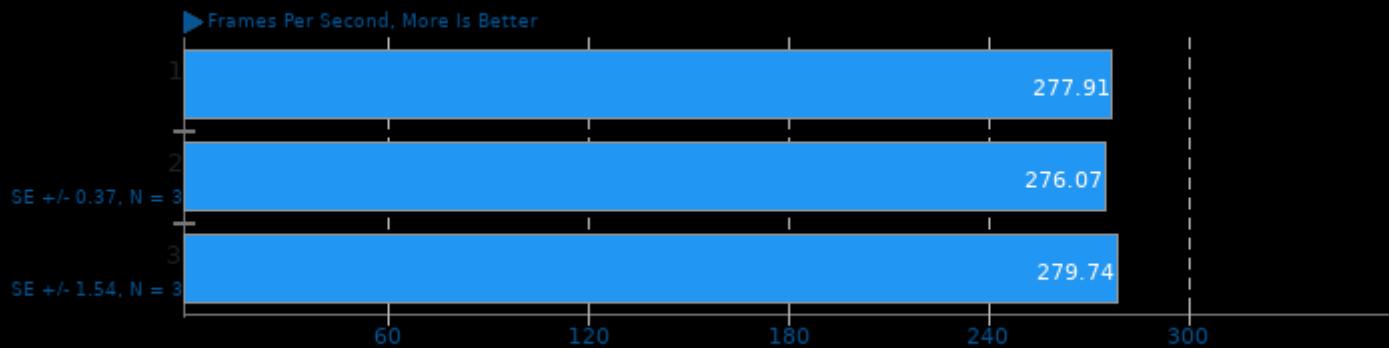
Tuning: 1 - Input: Bosphorus 1080p



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

SVT-HEVC 1.5.0

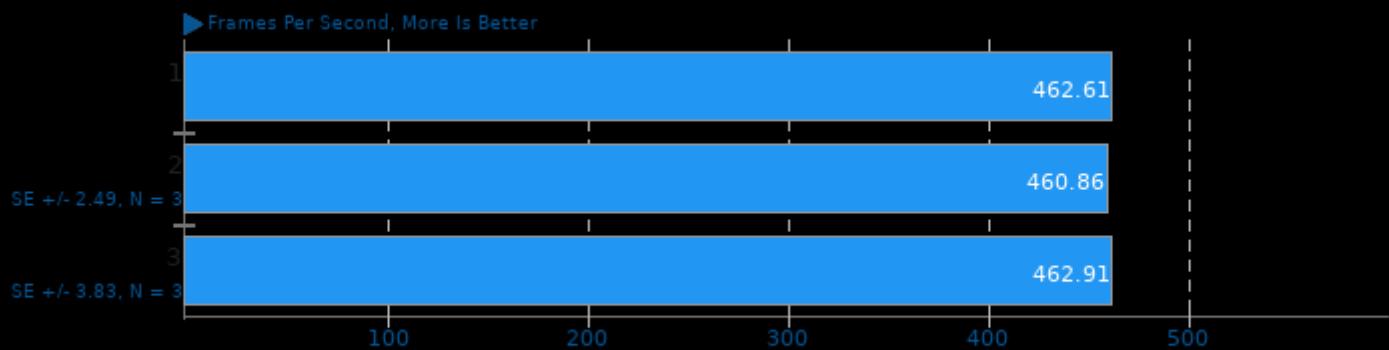
Tuning: 7 - Input: Bosphorus 1080p



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

SVT-HEVC 1.5.0

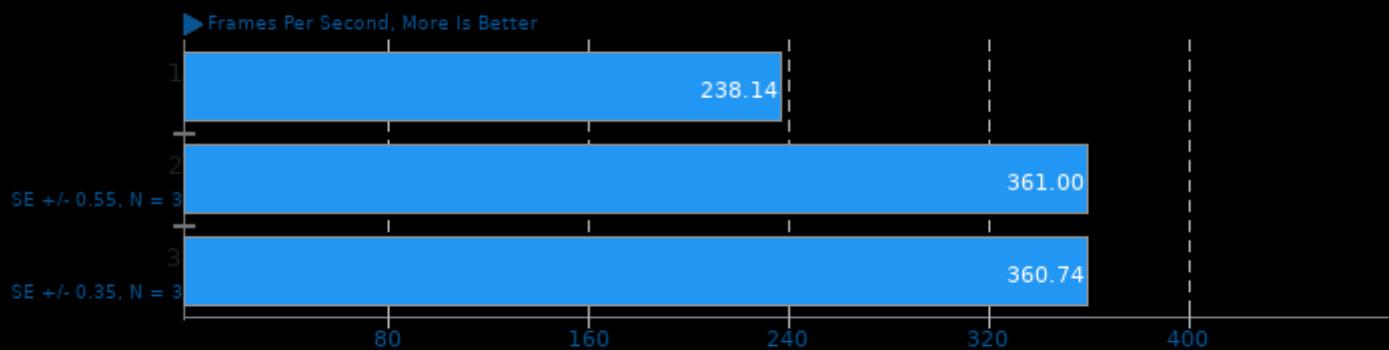
Tuning: 10 - Input: Bosphorus 1080p



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

SVT-VP9 0.3

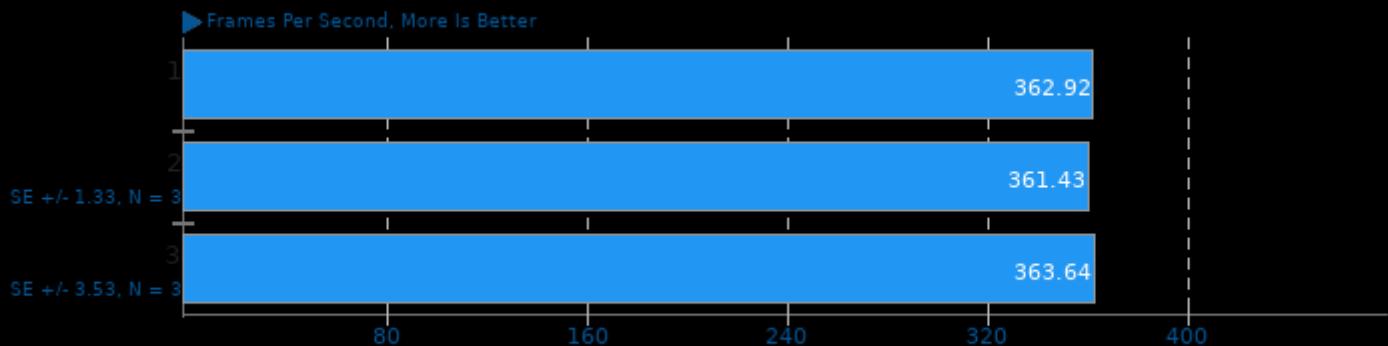
Tuning: VMAF Optimized - Input: Bosphorus 1080p



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

SVT-VP9 0.3

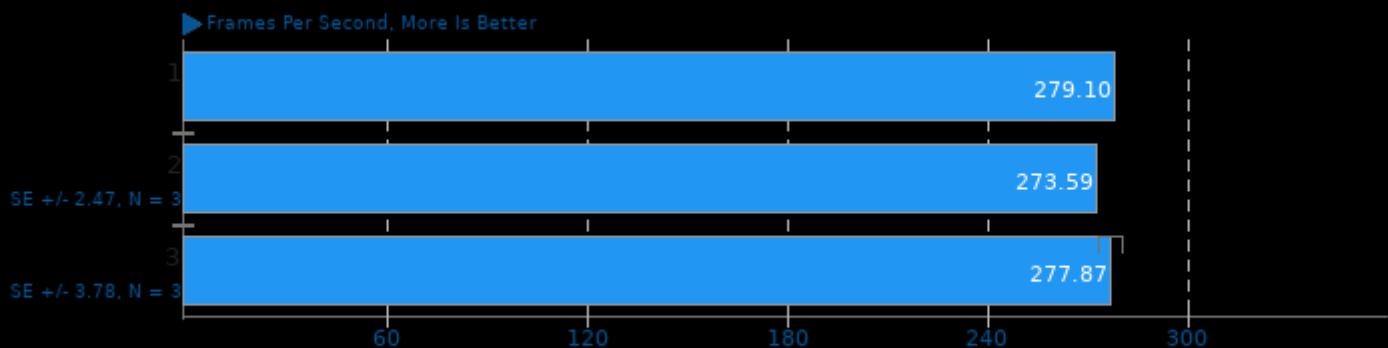
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p



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

SVT-VP9 0.3

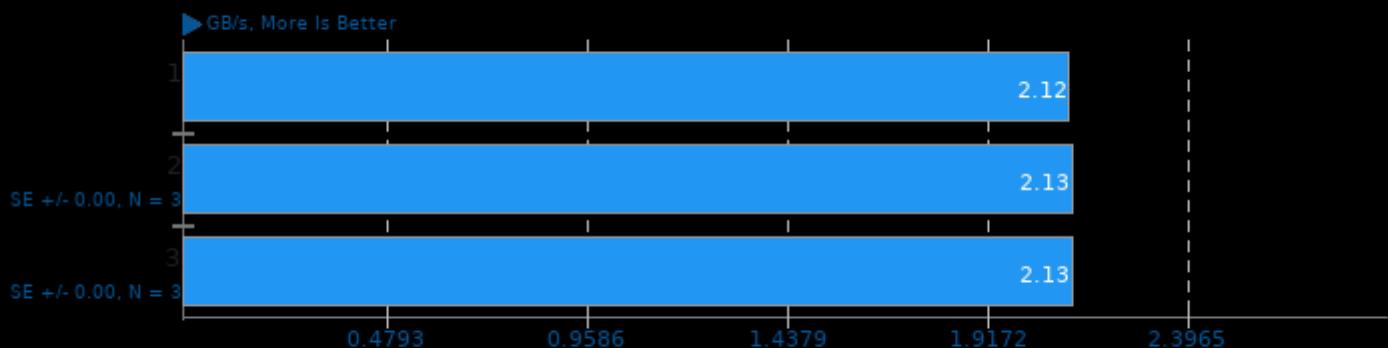
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



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

simdjson 0.8.2

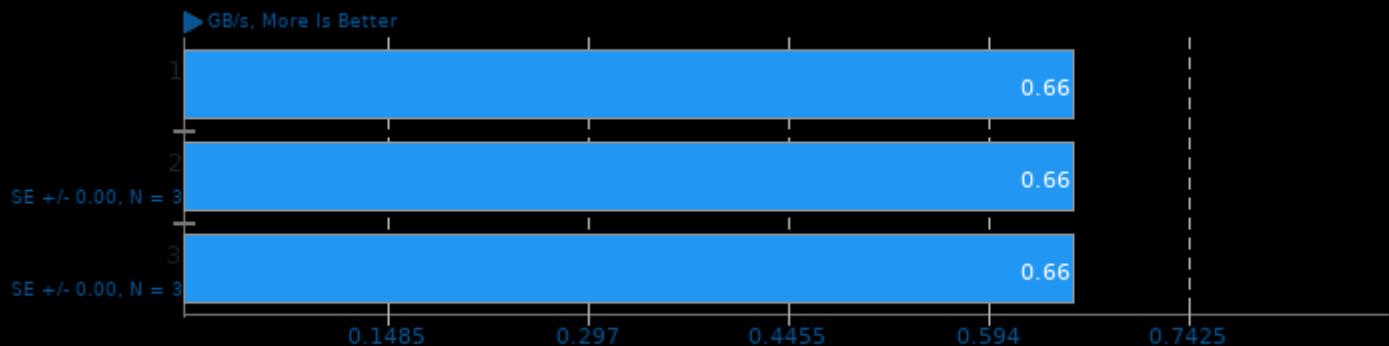
Throughput Test: Kostya



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

simdjson 0.8.2

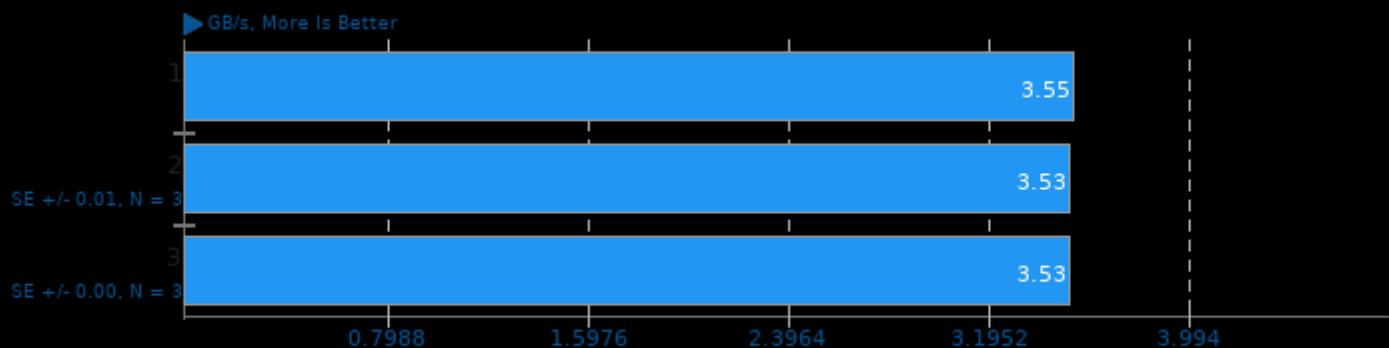
Throughput Test: LargeRandom



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

simdjson 0.8.2

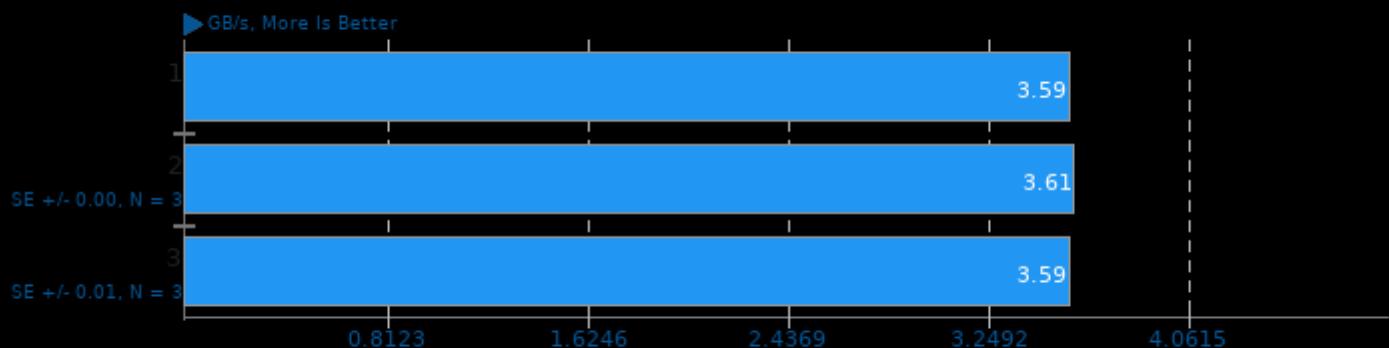
Throughput Test: PartialTweets



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

simdjson 0.8.2

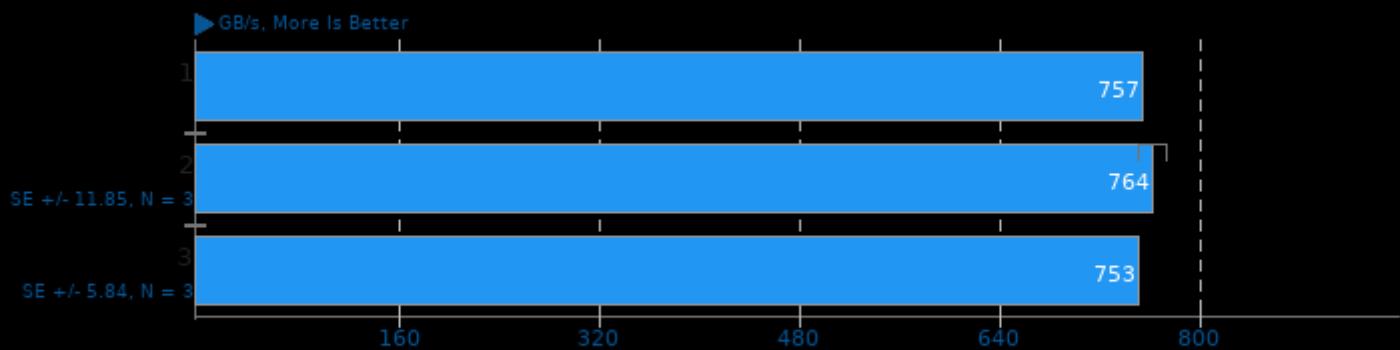
Throughput Test: DistinctUserID



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

ViennaCL 1.7.1

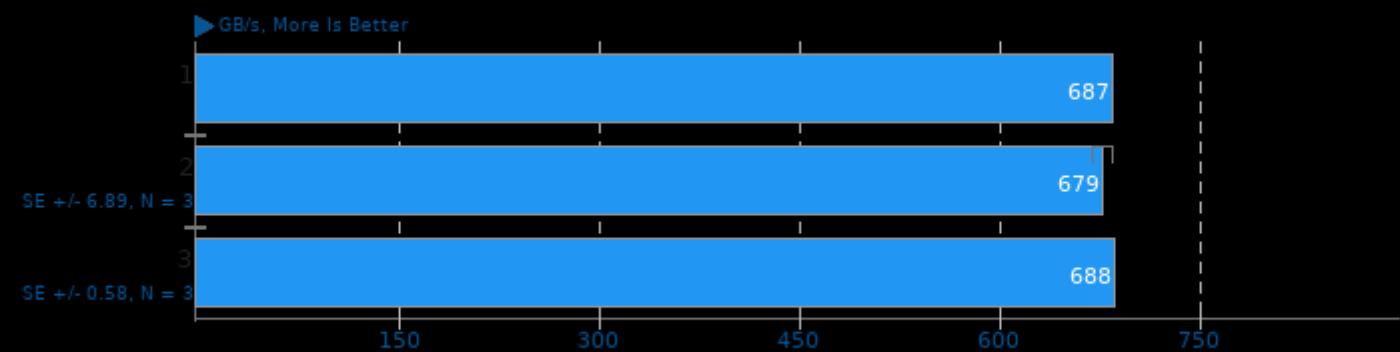
Test: CPU BLAS - sCOPY



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

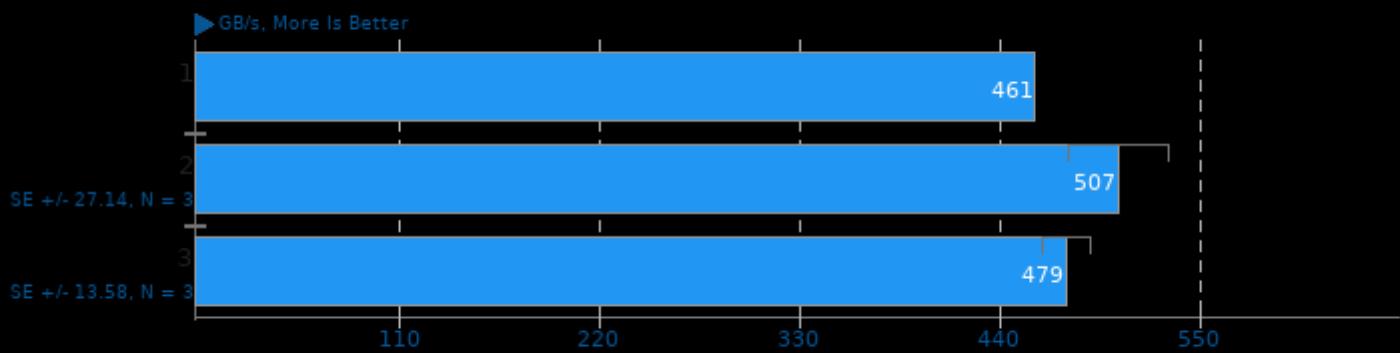
Test: CPU BLAS - sAXPY



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

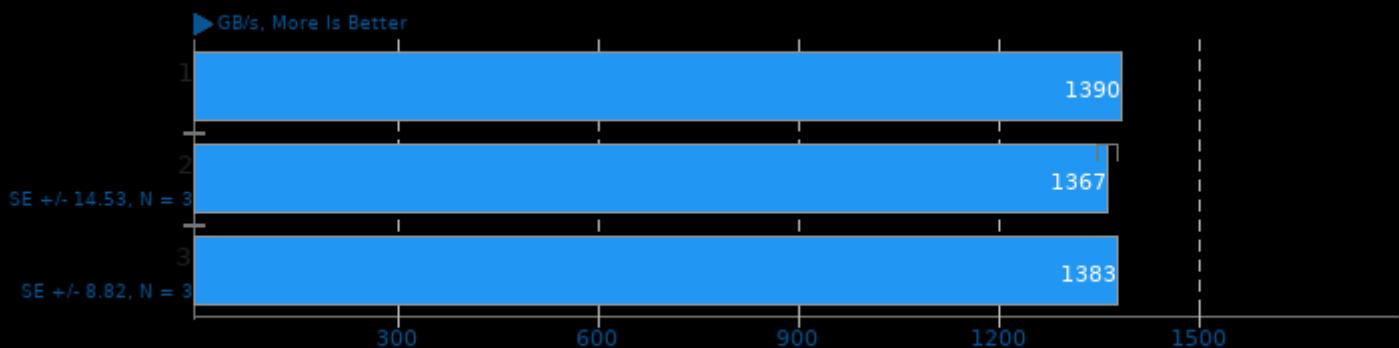
Test: CPU BLAS - sDOT



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

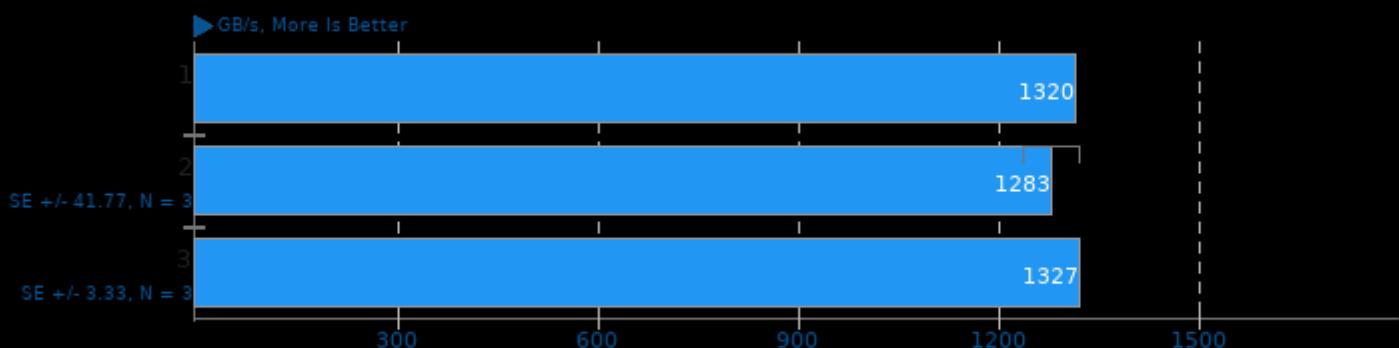
Test: CPU BLAS - dCOPY



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

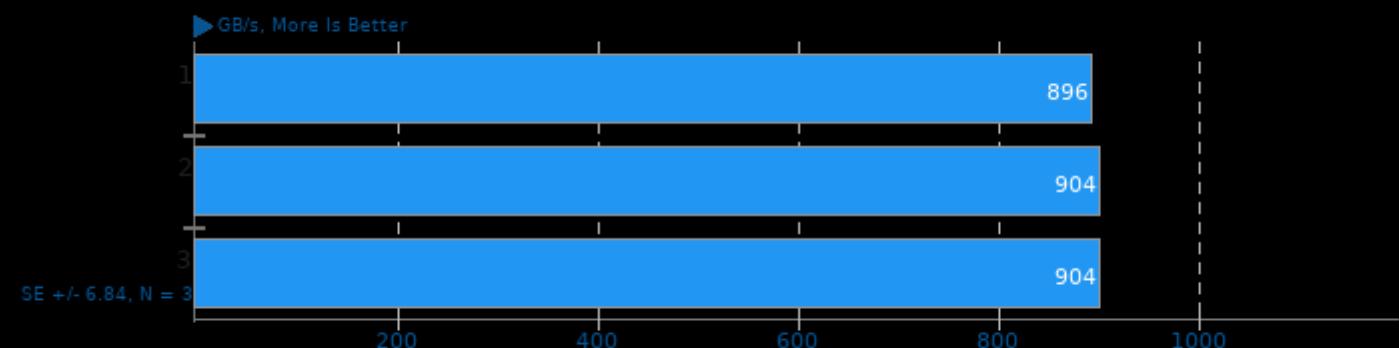
Test: CPU BLAS - dAXPY



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

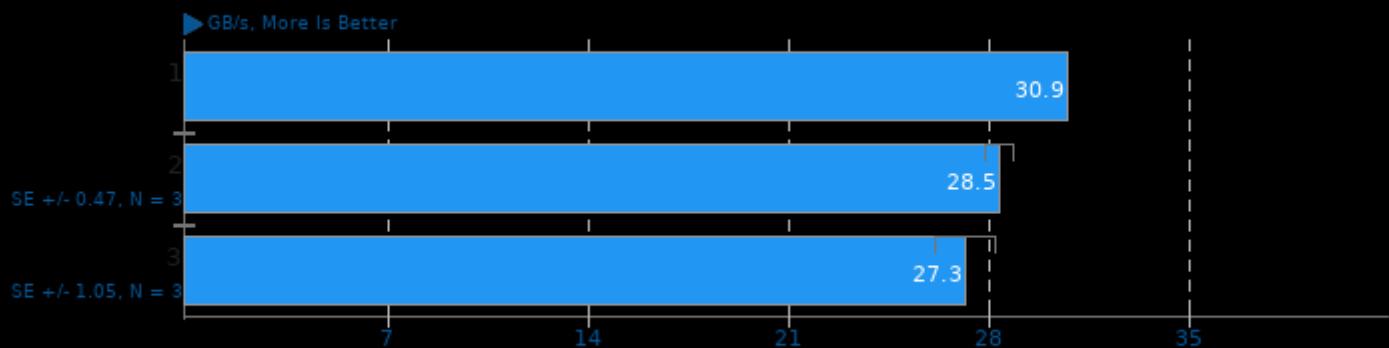
Test: CPU BLAS - dDOT



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

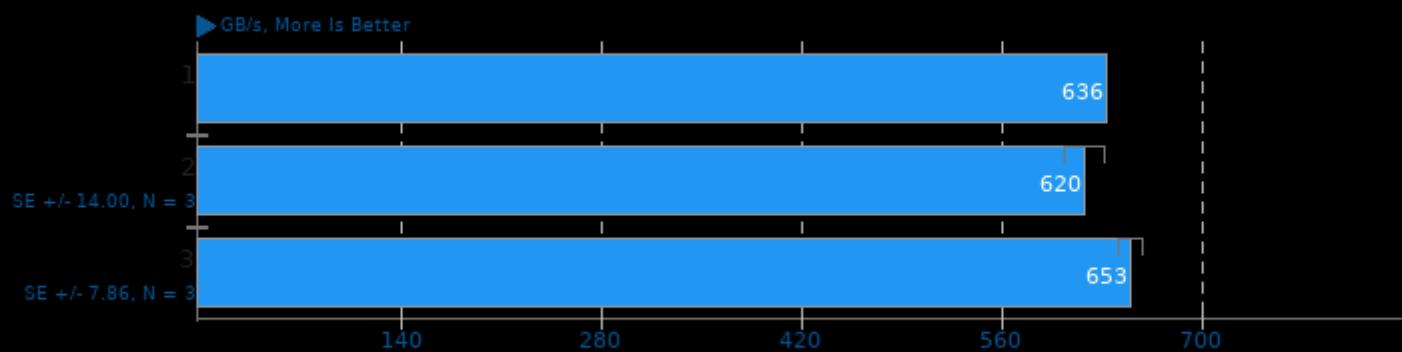
Test: CPU BLAS - dGEMV-N



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

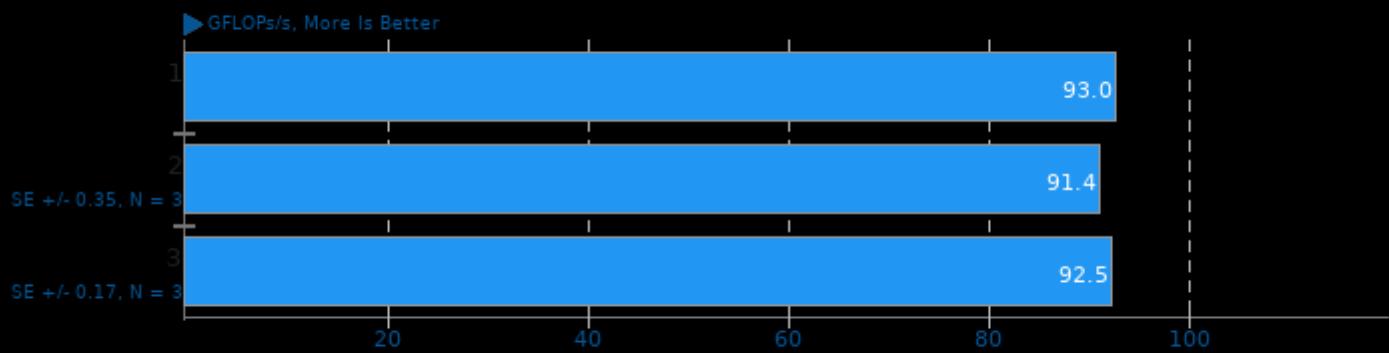
Test: CPU BLAS - dGEMV-T



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

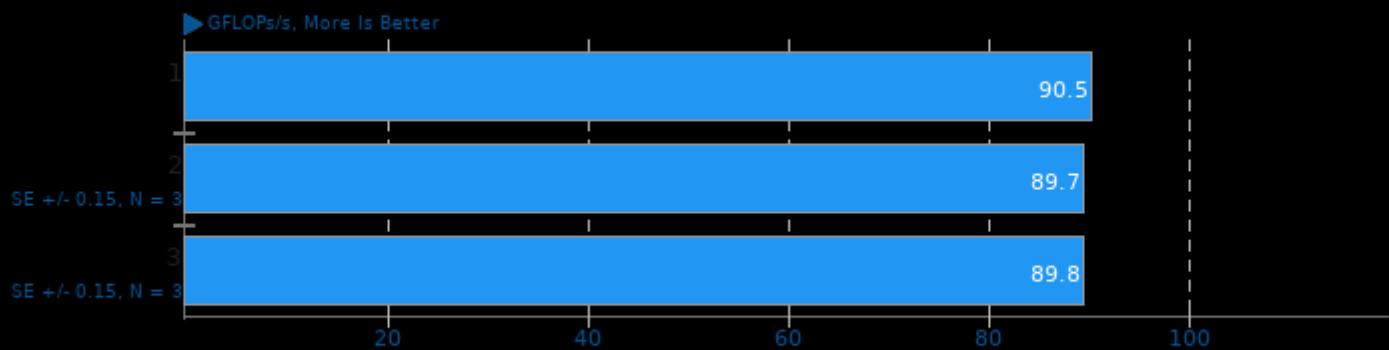
Test: CPU BLAS - dGEMM-NN



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

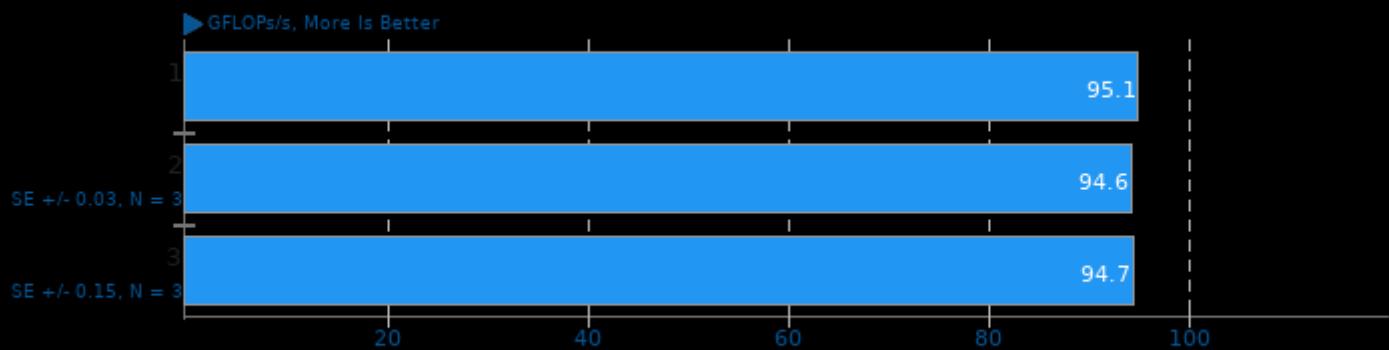
Test: CPU BLAS - dGEMM-NT



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

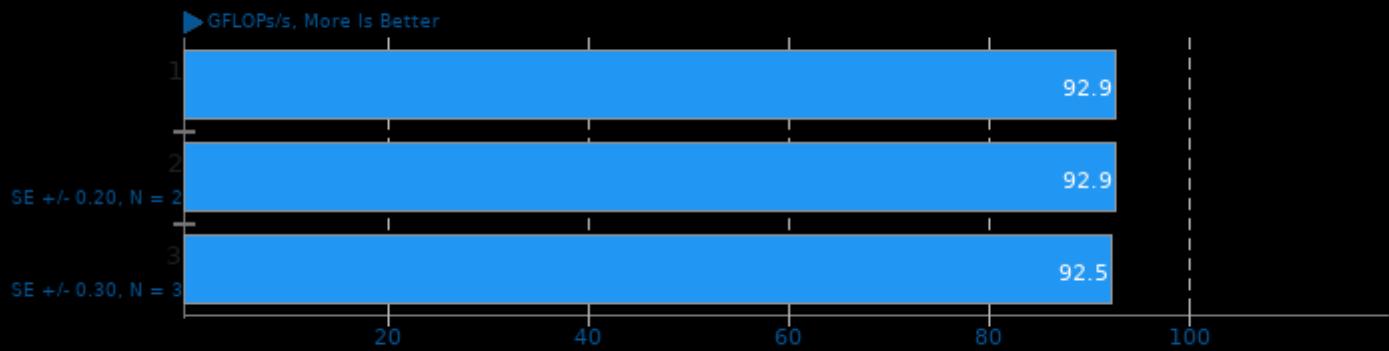
Test: CPU BLAS - dGEMM-TN



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

ViennaCL 1.7.1

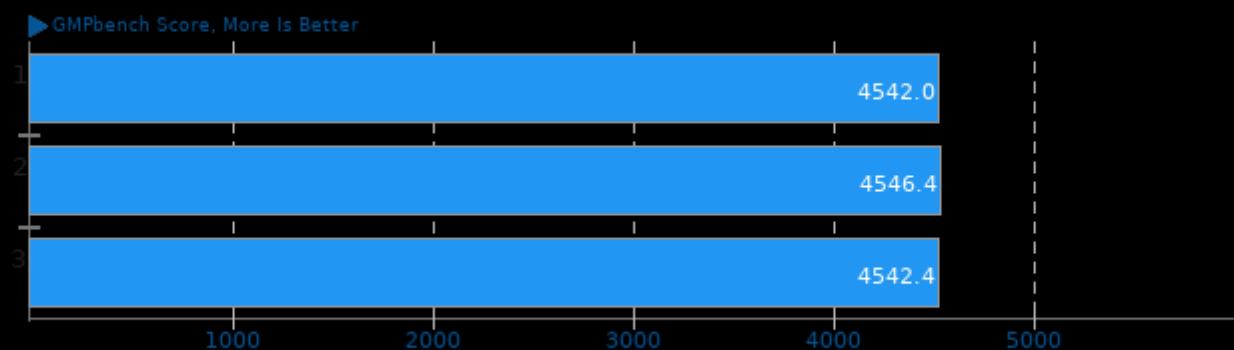
Test: CPU BLAS - dGEMM-TT



1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

GNU GMP GMPbench 6.2.1

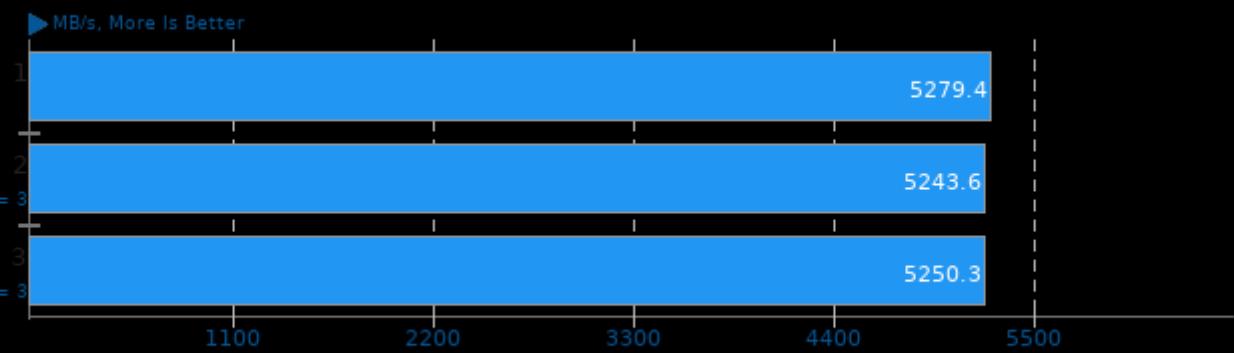
Total Time



1. (CC) gcc options: -O3 -fomit-frame-pointer -lm

Zstd Compression 1.4.9

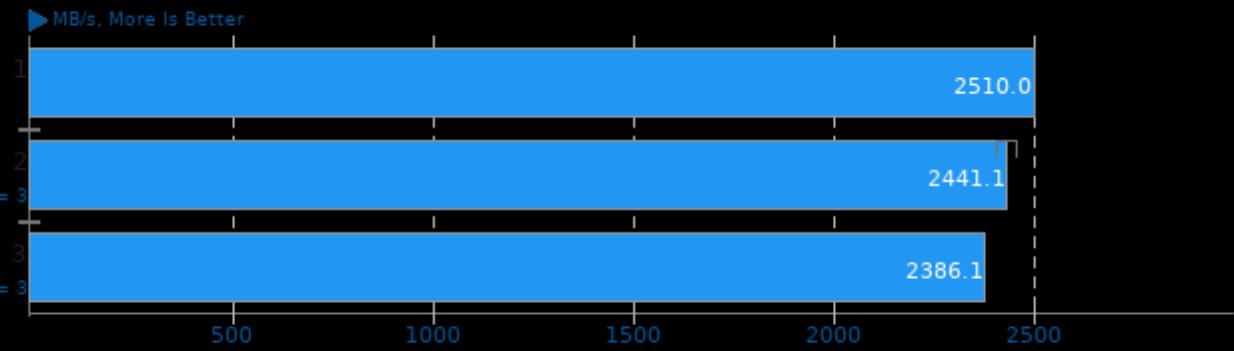
Compression Level: 3 - Compression Speed



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

Zstd Compression 1.4.9

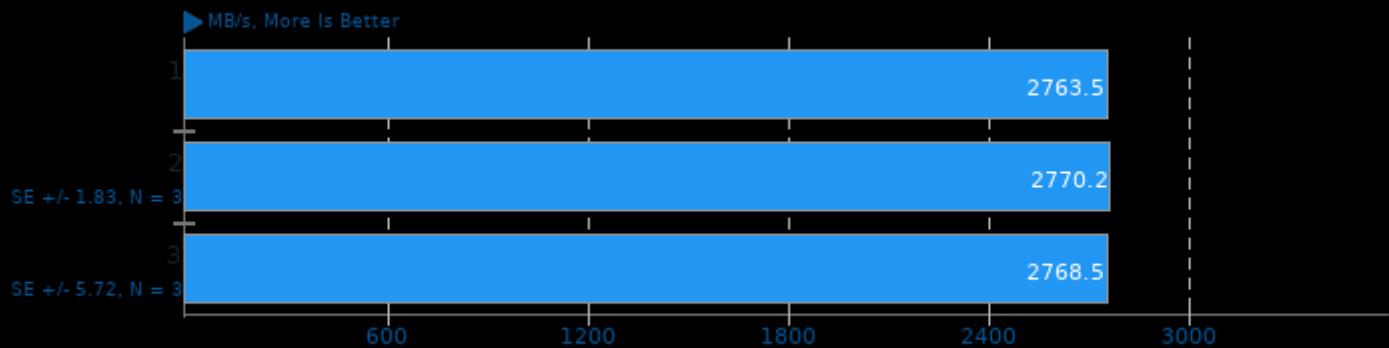
Compression Level: 8 - Compression Speed



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

Zstd Compression 1.4.9

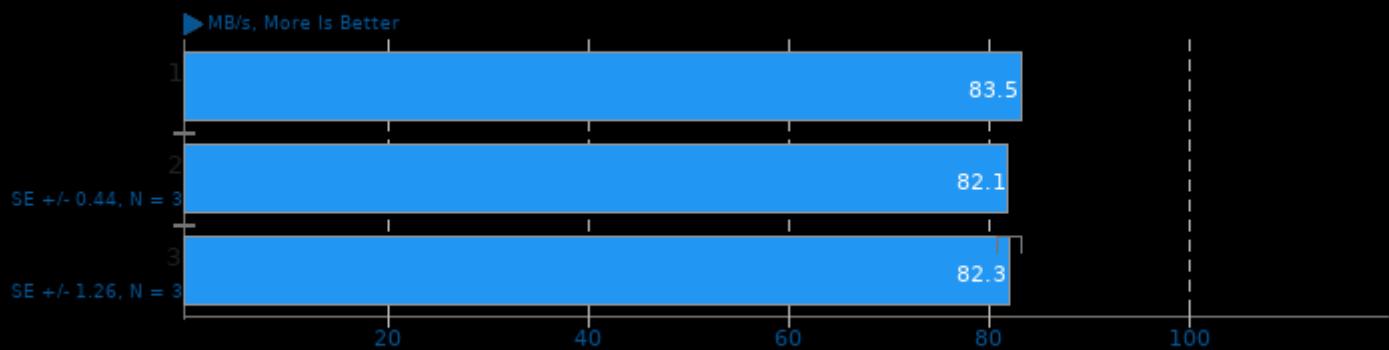
Compression Level: 8 - Decompression Speed



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

Zstd Compression 1.4.9

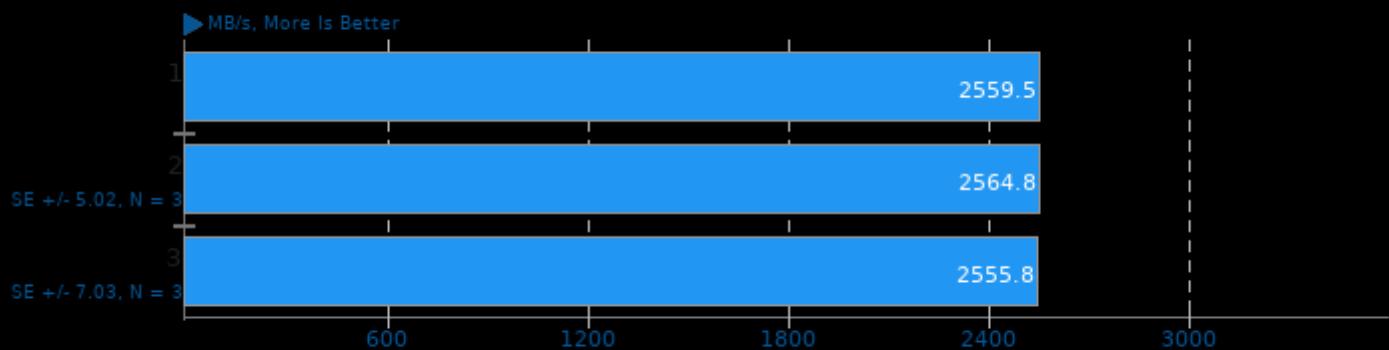
Compression Level: 19 - Compression Speed



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

Zstd Compression 1.4.9

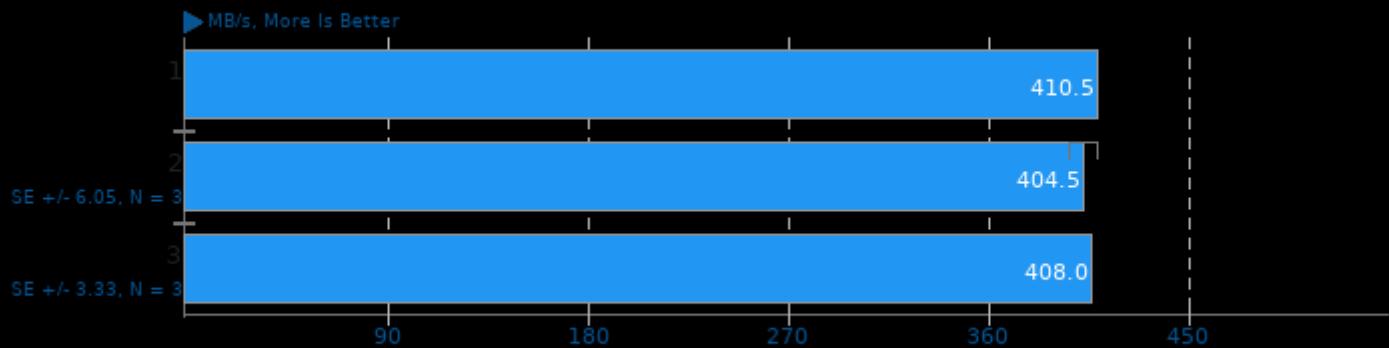
Compression Level: 19 - Decompression Speed



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

Zstd Compression 1.4.9

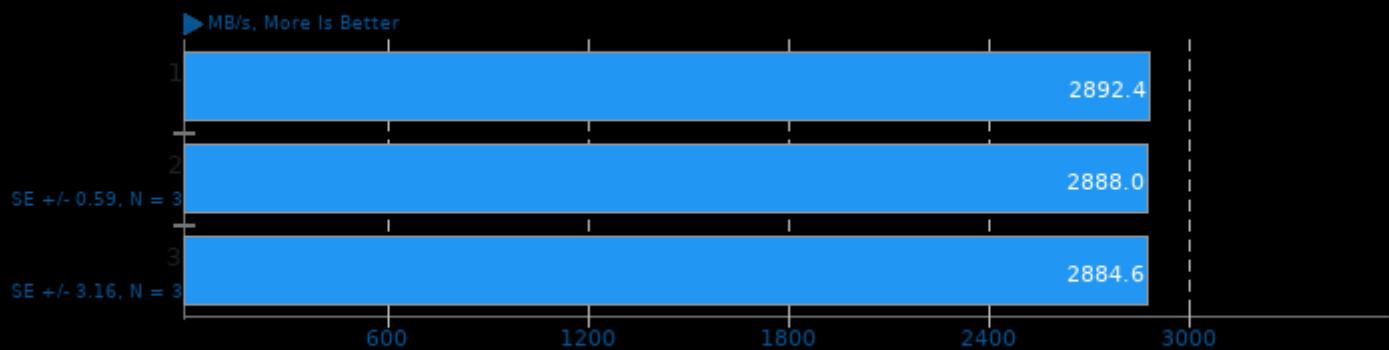
Compression Level: 3, Long Mode - Compression Speed



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

Zstd Compression 1.4.9

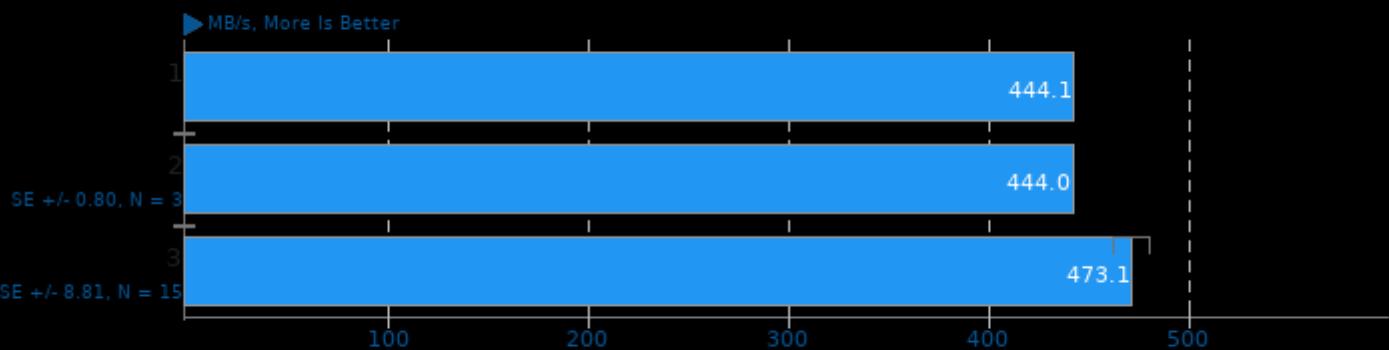
Compression Level: 3, Long Mode - Decompression Speed



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

Zstd Compression 1.4.9

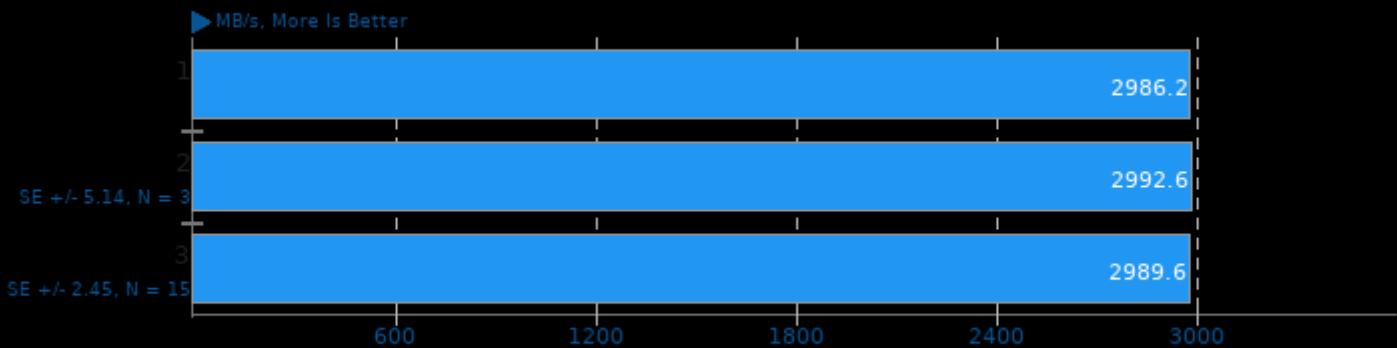
Compression Level: 8, Long Mode - Compression Speed



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

Zstd Compression 1.4.9

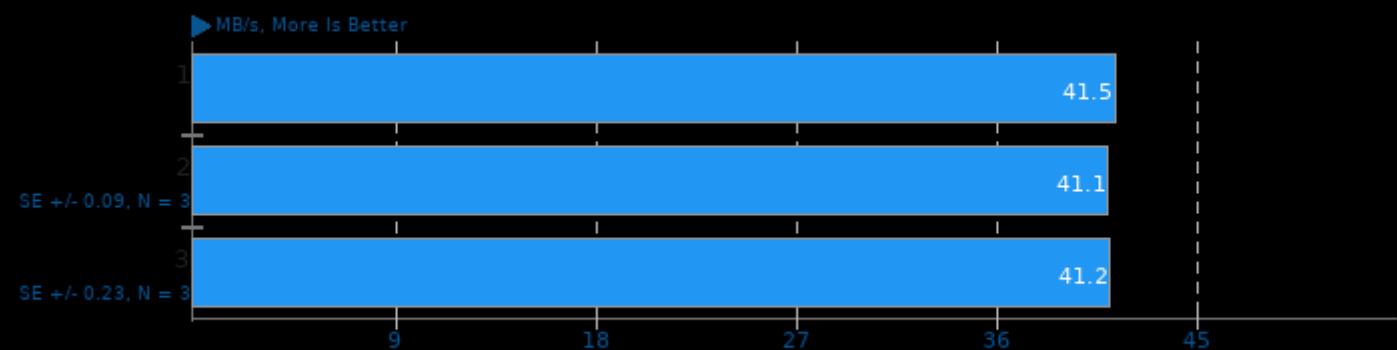
Compression Level: 8, Long Mode - Decompression Speed



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

Zstd Compression 1.4.9

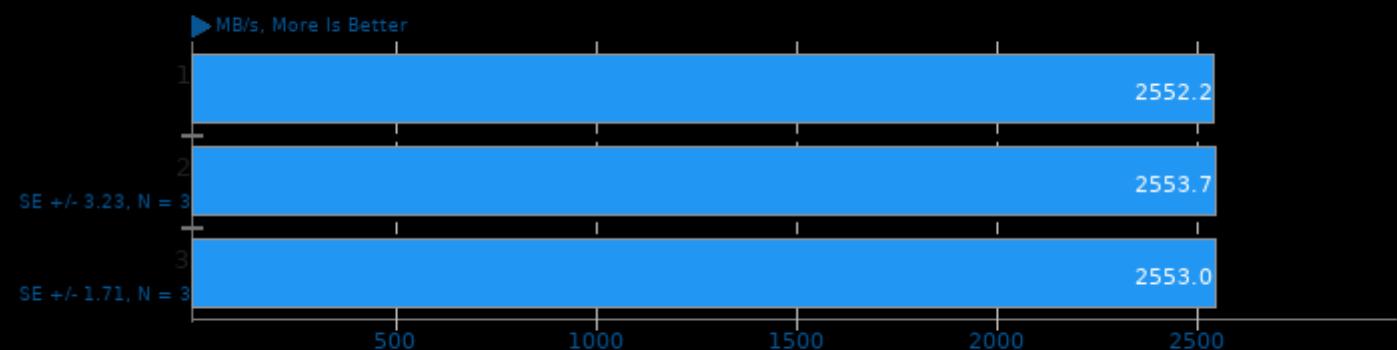
Compression Level: 19, Long Mode - Compression Speed



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

Zstd Compression 1.4.9

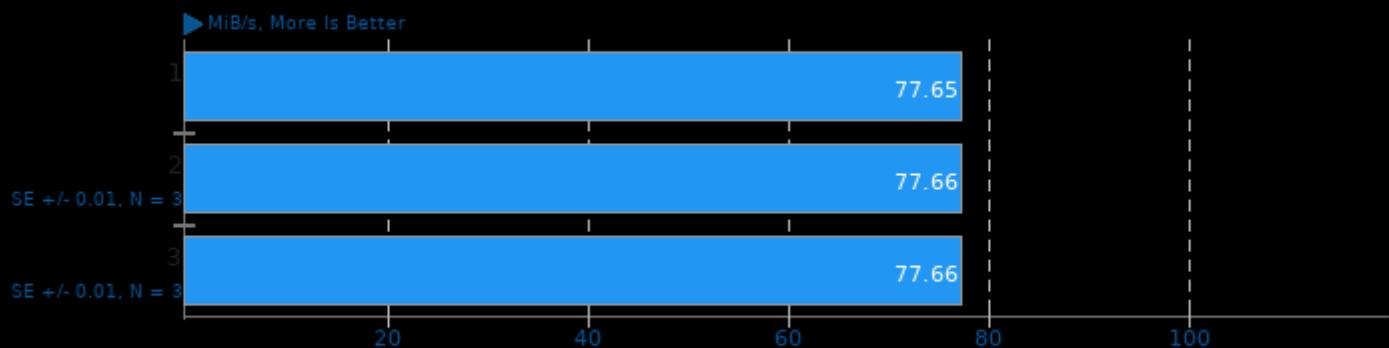
Compression Level: 19, Long Mode - Decompression Speed



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

Botan 2.17.3

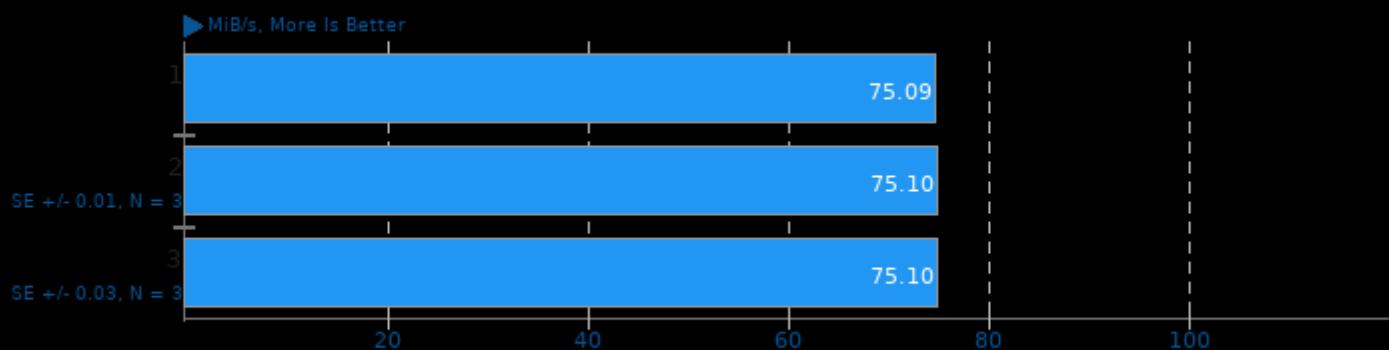
Test: KASUMI



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

Botan 2.17.3

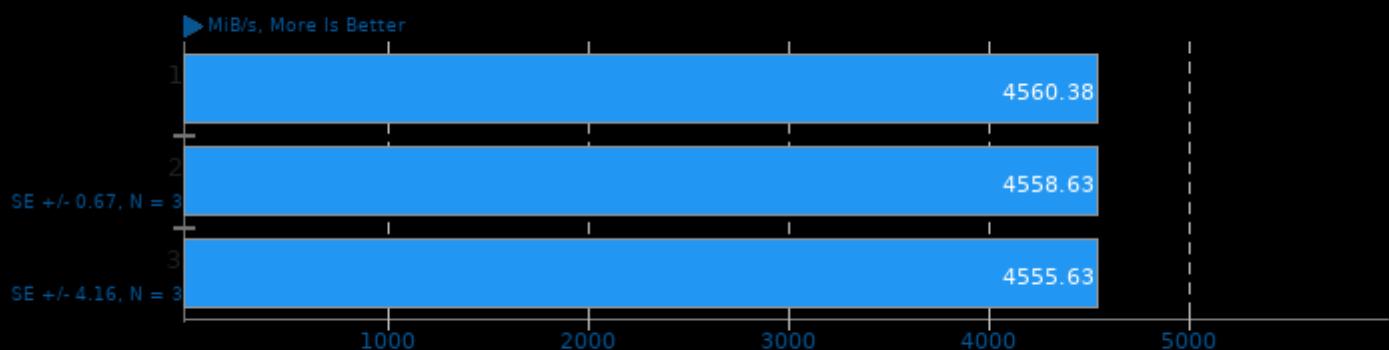
Test: KASUMI - Decrypt



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

Botan 2.17.3

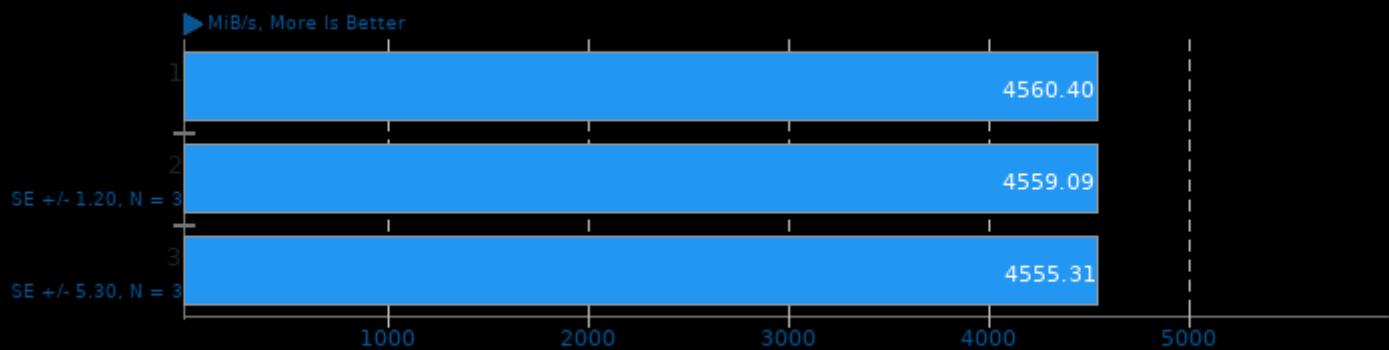
Test: AES-256



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

Botan 2.17.3

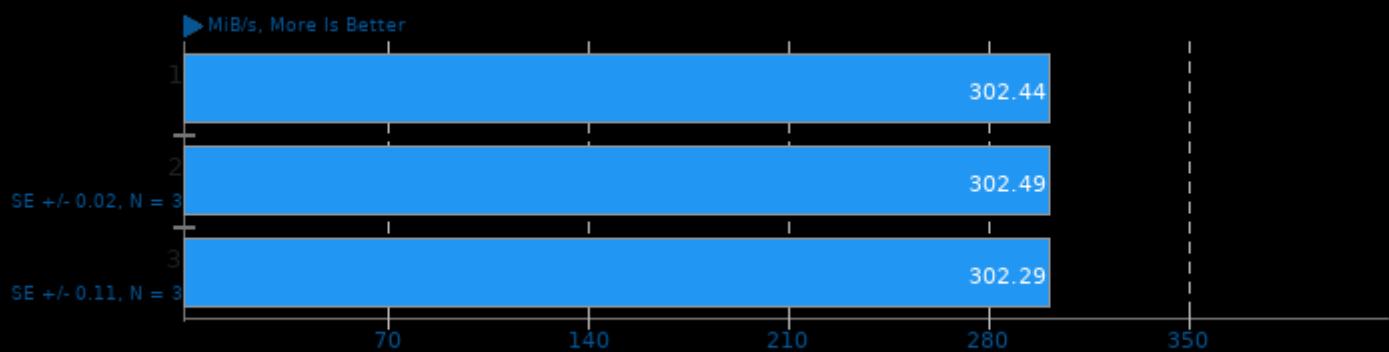
Test: AES-256 - Decrypt



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

Botan 2.17.3

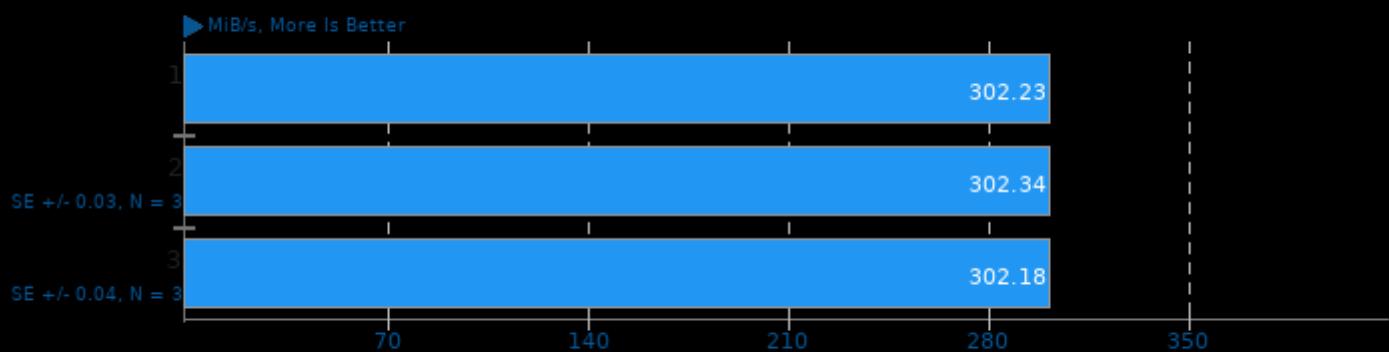
Test: Twofish



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

Botan 2.17.3

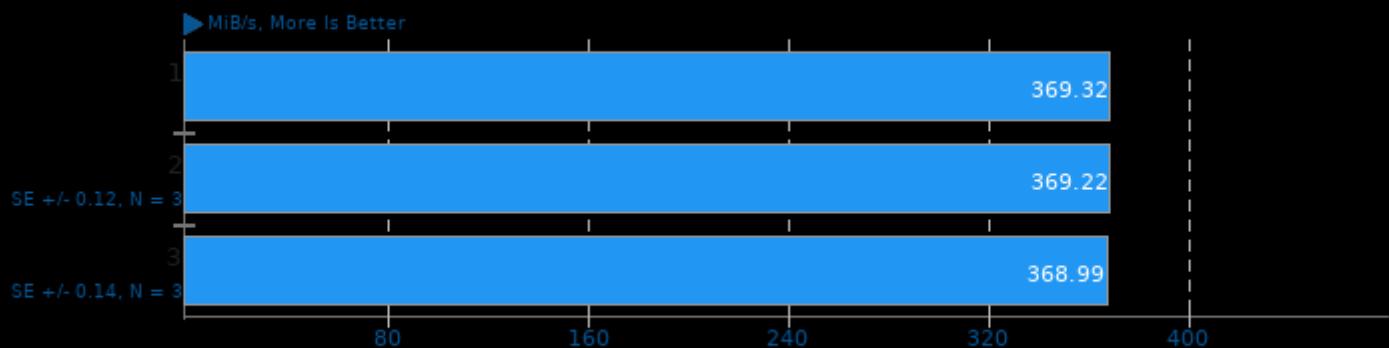
Test: Twofish - Decrypt



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

Botan 2.17.3

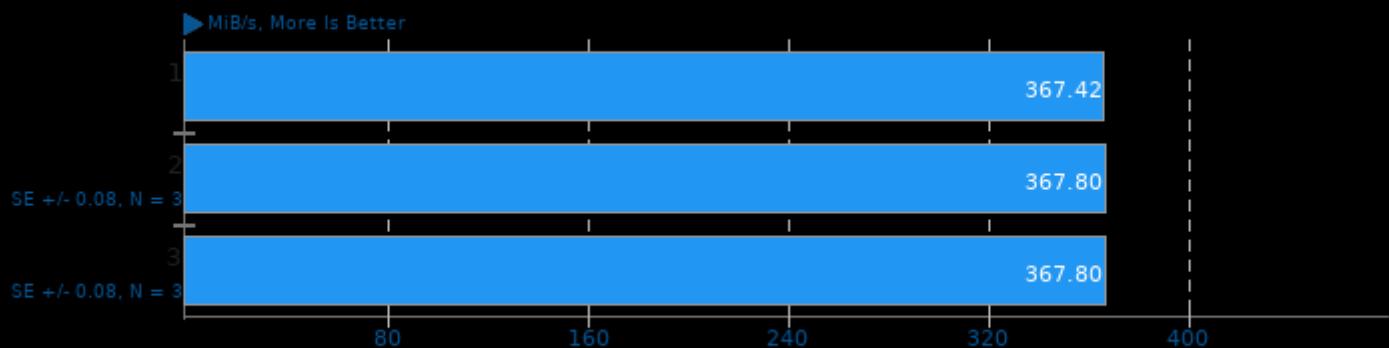
Test: Blowfish



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

Botan 2.17.3

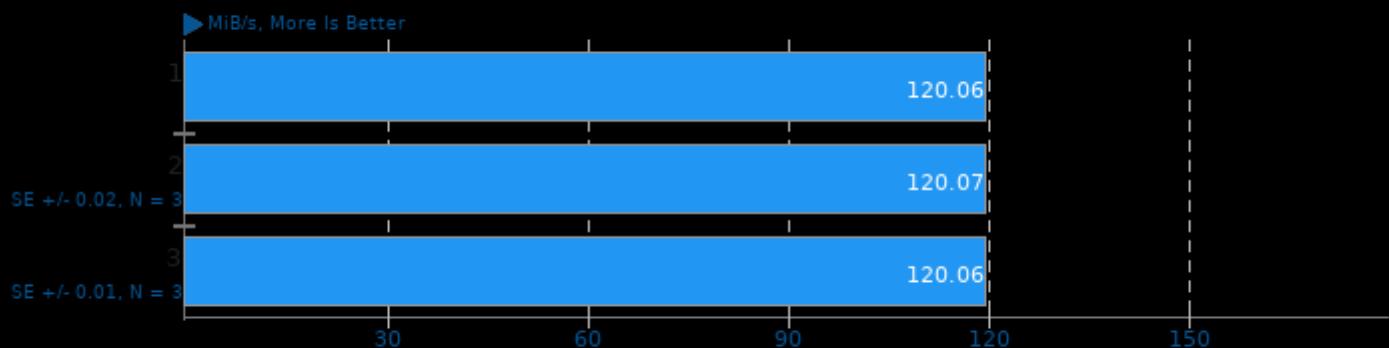
Test: Blowfish - Decrypt



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

Botan 2.17.3

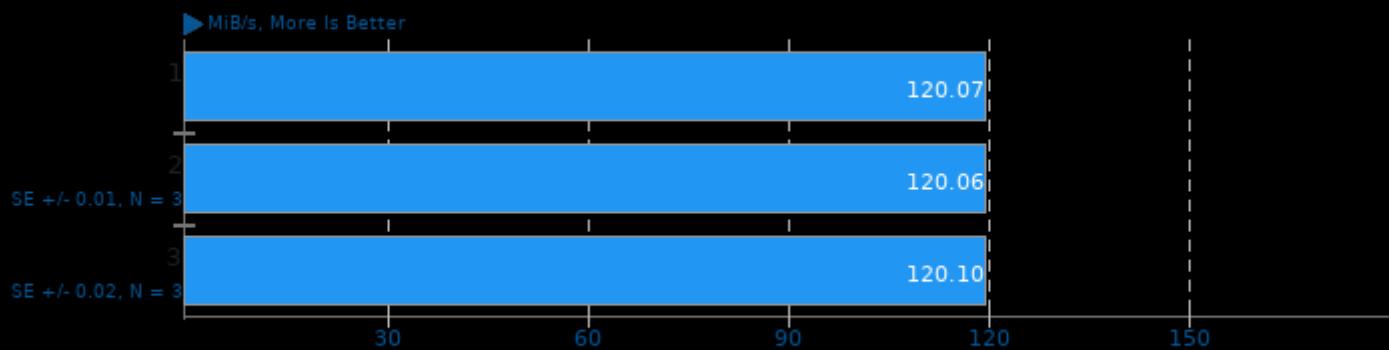
Test: CAST-256



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

Botan 2.17.3

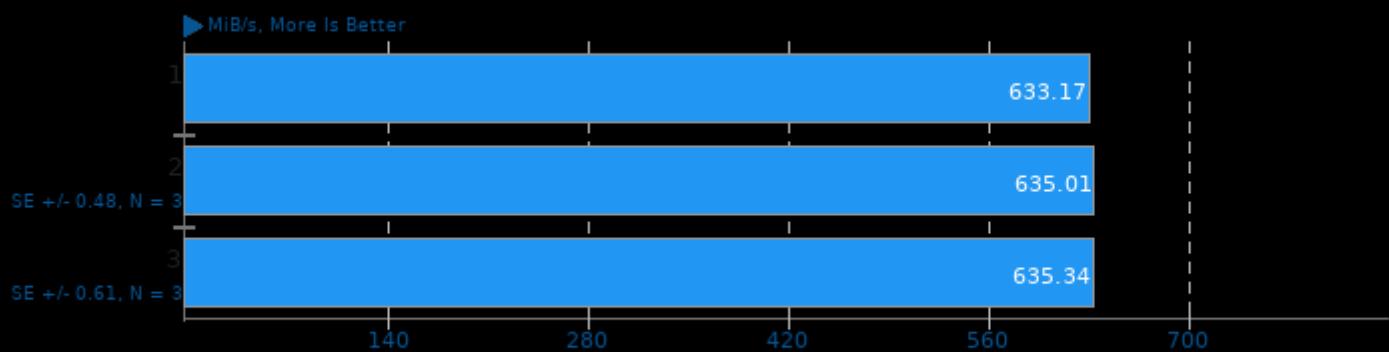
Test: CAST-256 - Decrypt



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

Botan 2.17.3

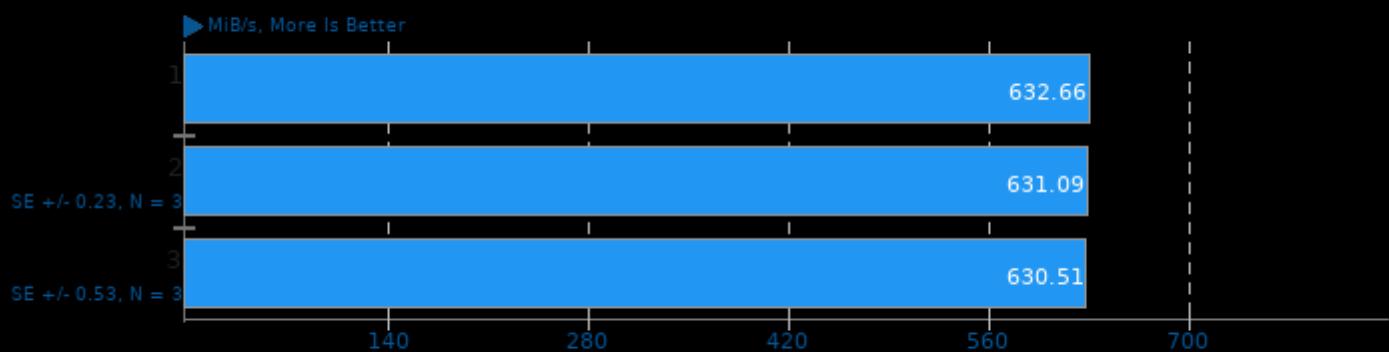
Test: ChaCha20Poly1305



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

Botan 2.17.3

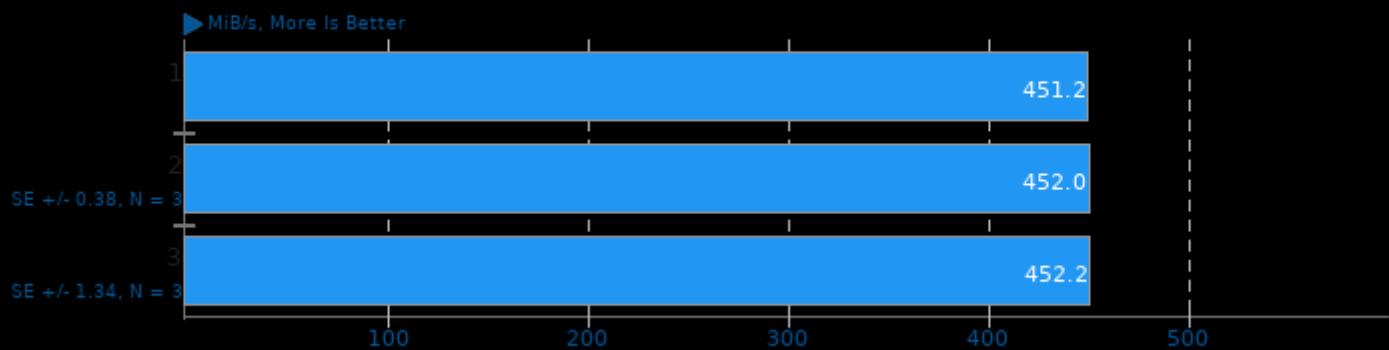
Test: ChaCha20Poly1305 - Decrypt



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

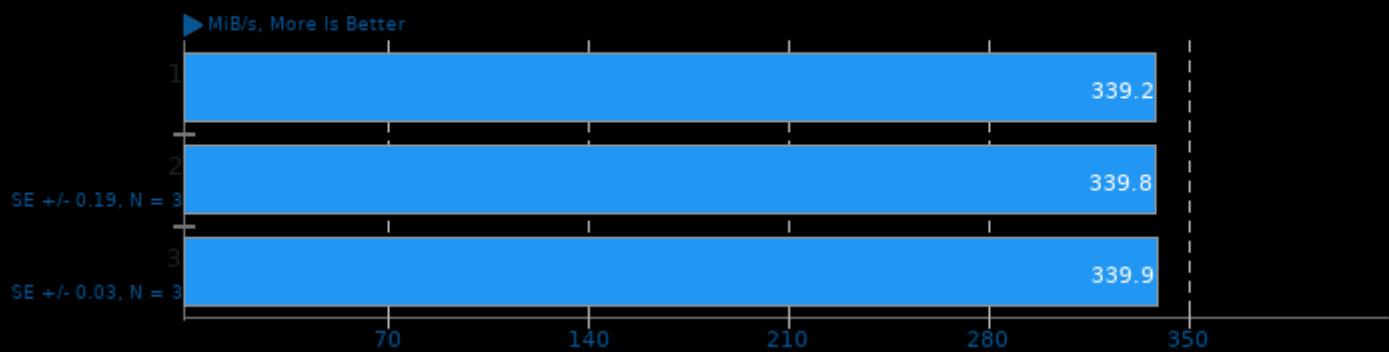
LuaRadio 0.9.1

Test: Five Back to Back FIR Filters



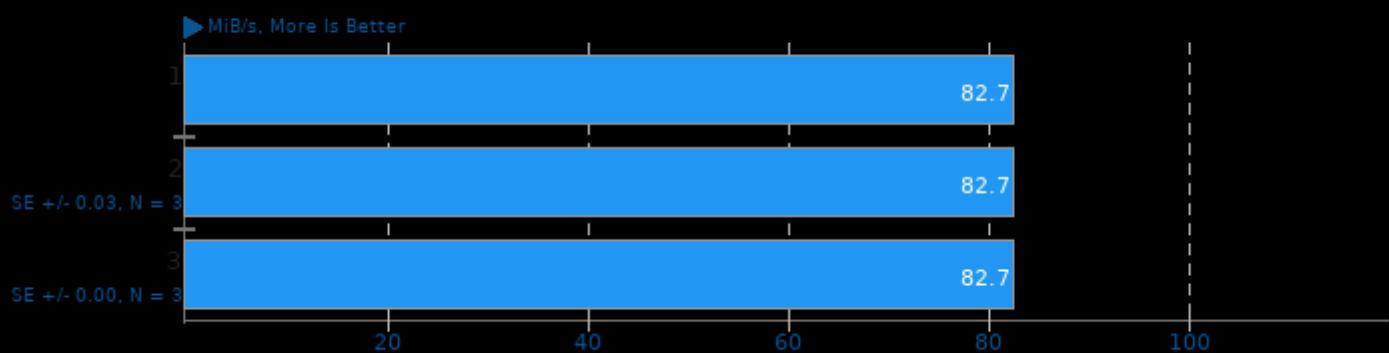
LuaRadio 0.9.1

Test: FM Deemphasing Filter



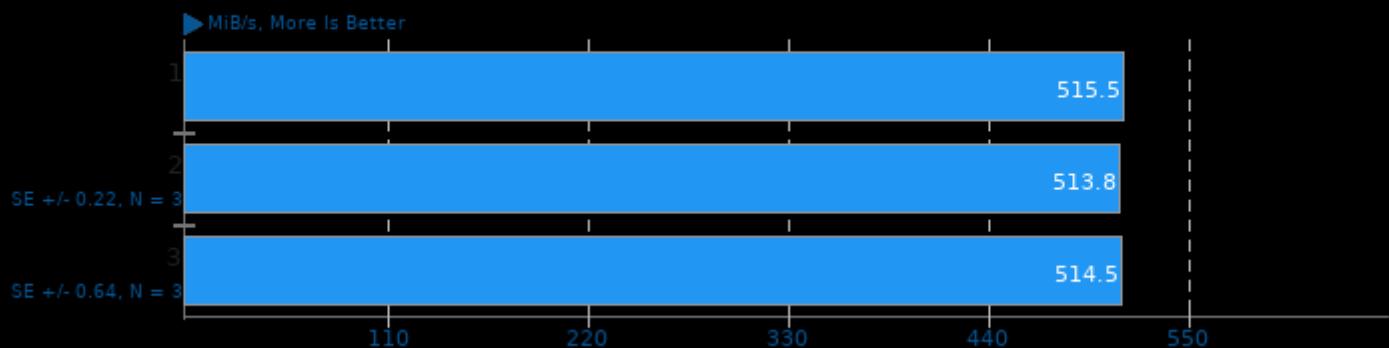
LuaRadio 0.9.1

Test: Hilbert Transform



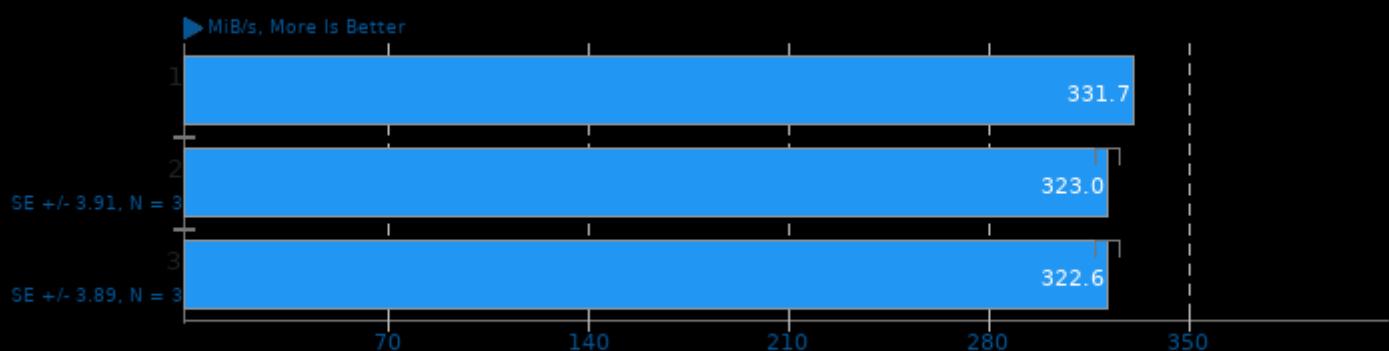
LuaRadio 0.9.1

Test: Complex Phase



GNU Radio

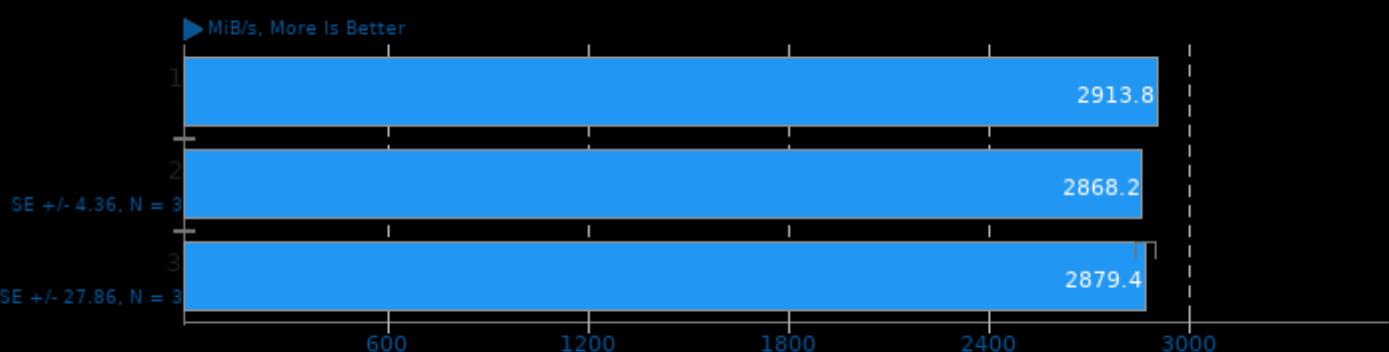
Test: Five Back to Back FIR Filters



1.3.8.1.0

GNU Radio

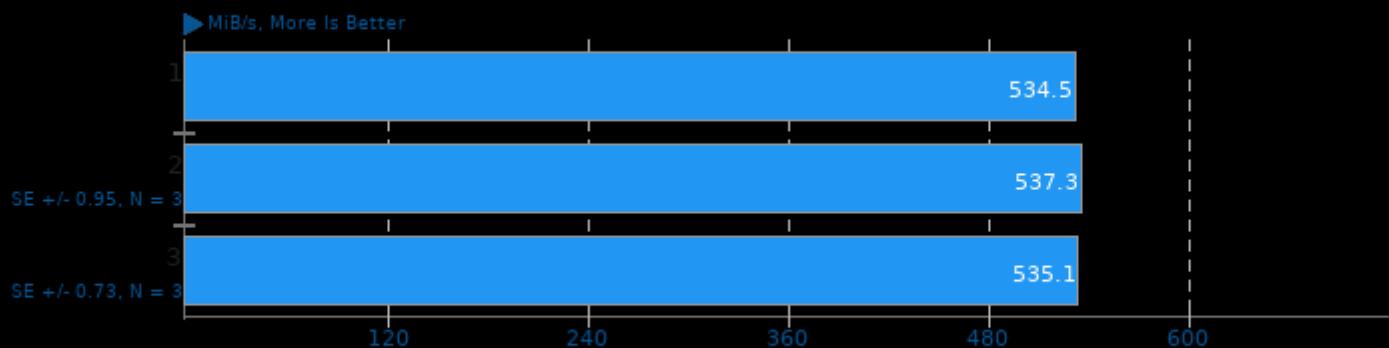
Test: Signal Source (Cosine)



1.3.8.1.0

GNU Radio

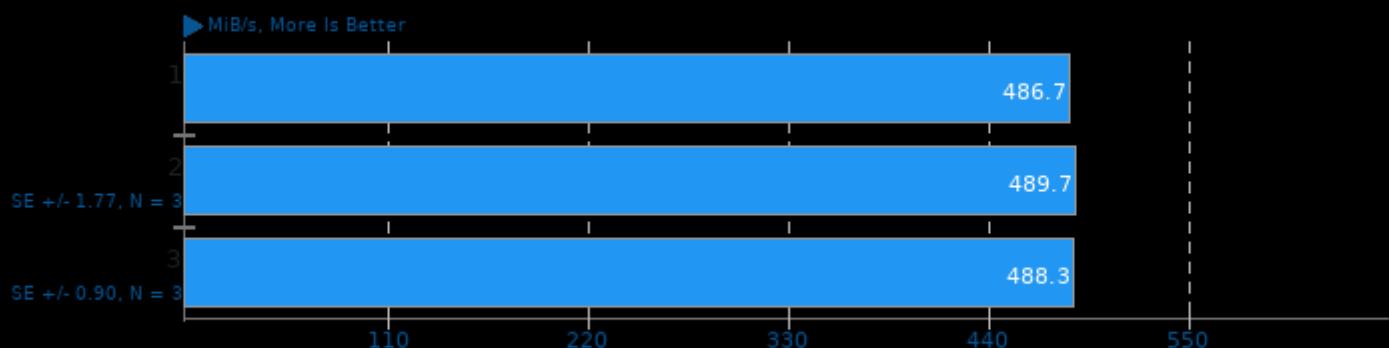
Test: FIR Filter



1.3.8.1.0

GNU Radio

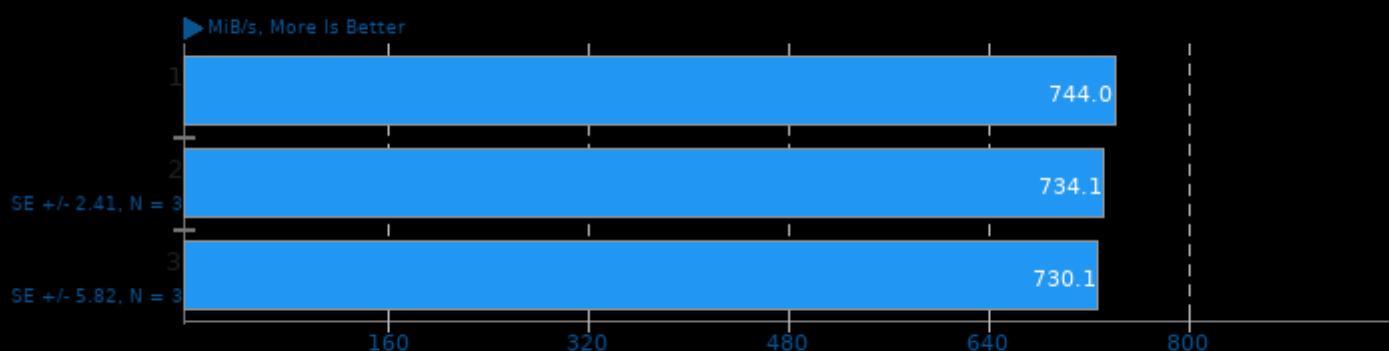
Test: IIR Filter



1.3.8.1.0

GNU Radio

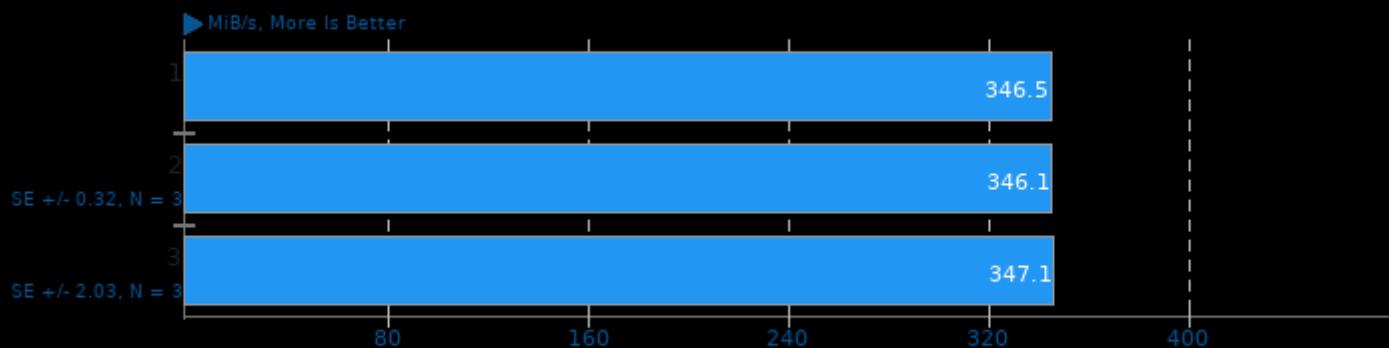
Test: FM Deemphasis Filter



1.3.8.1.0

GNU Radio

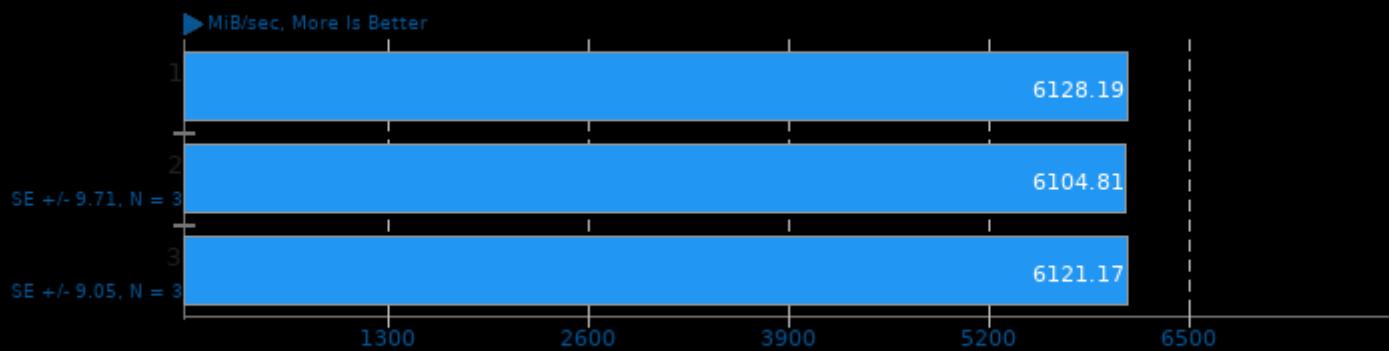
Test: Hilbert Transform



1.3.8.1.0

Sysbench 1.0.20

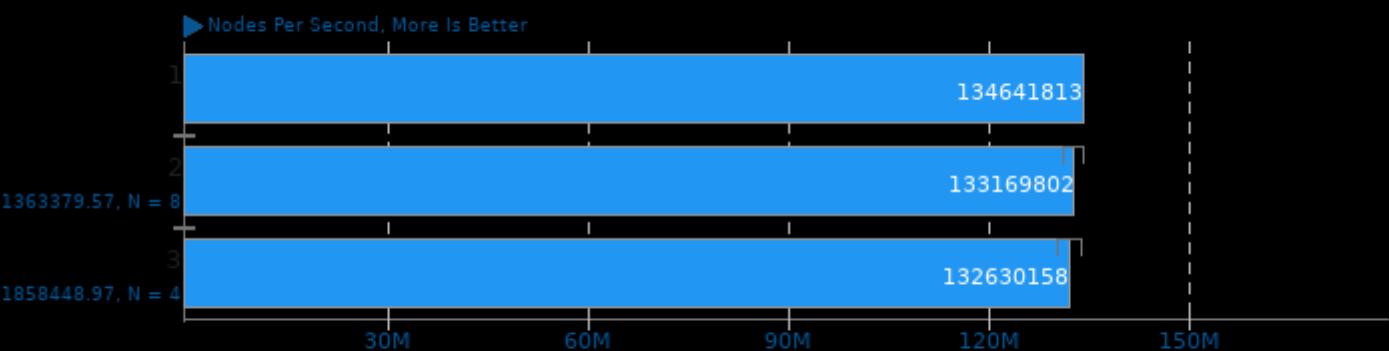
Test: RAM / Memory



1. (CC) gcc options: -pthread -O2 -funroll-loops -O3 -march=native -rdynamic -ldl -laio -lm

Stockfish 13

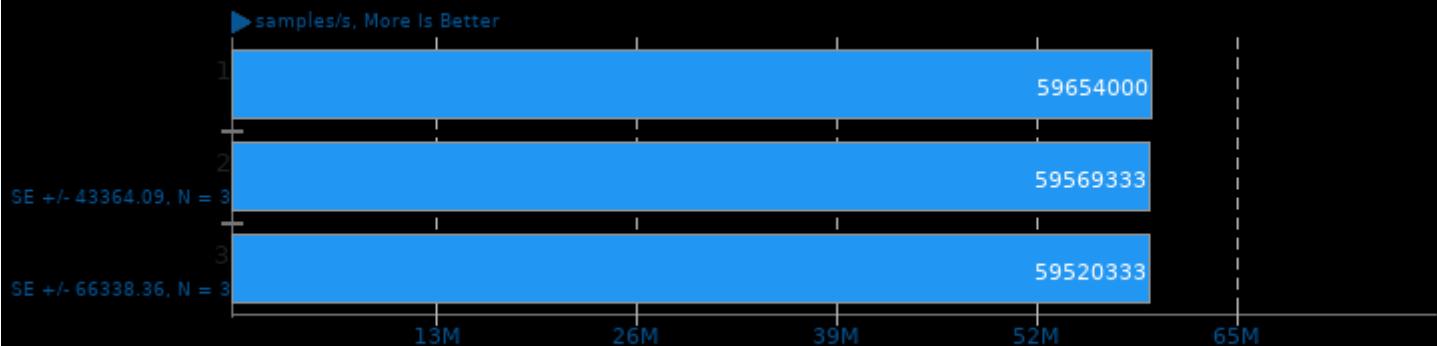
Total Time



1. (CXX) g++ options: -fprofile-use -m64 -lpthread -O3 -march=native -fno-exceptions -std=c++17 -pedantic -msse -msse3 -msse4.1 -

Liquid-DSP 2021.01.31

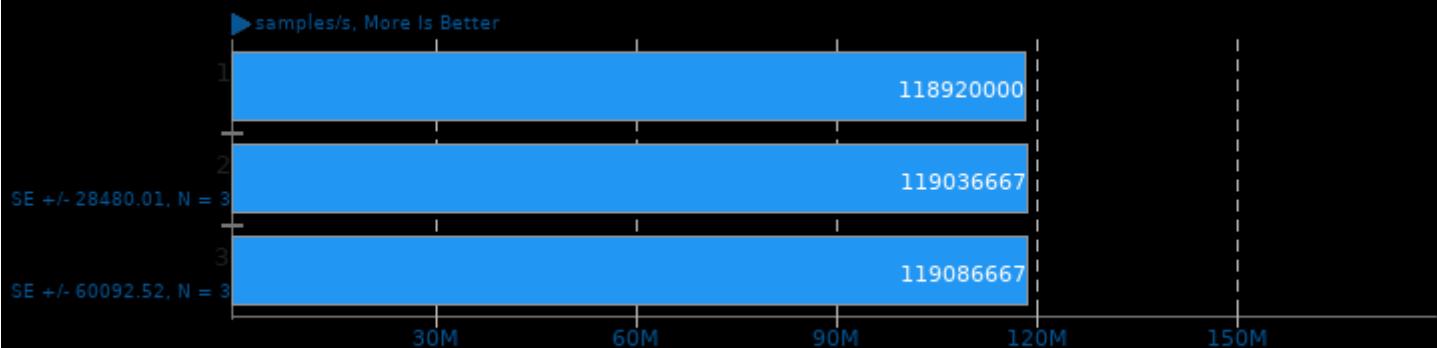
Threads: 1 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

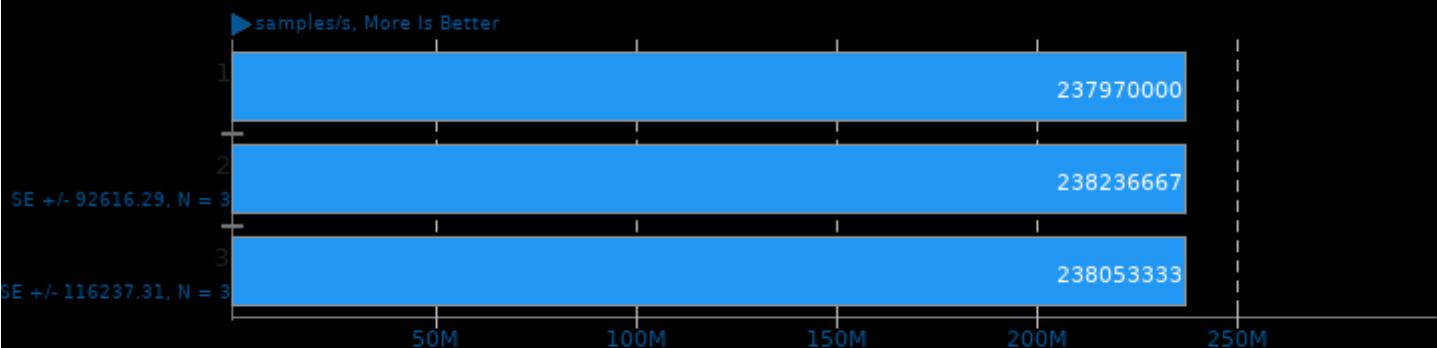
Threads: 2 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

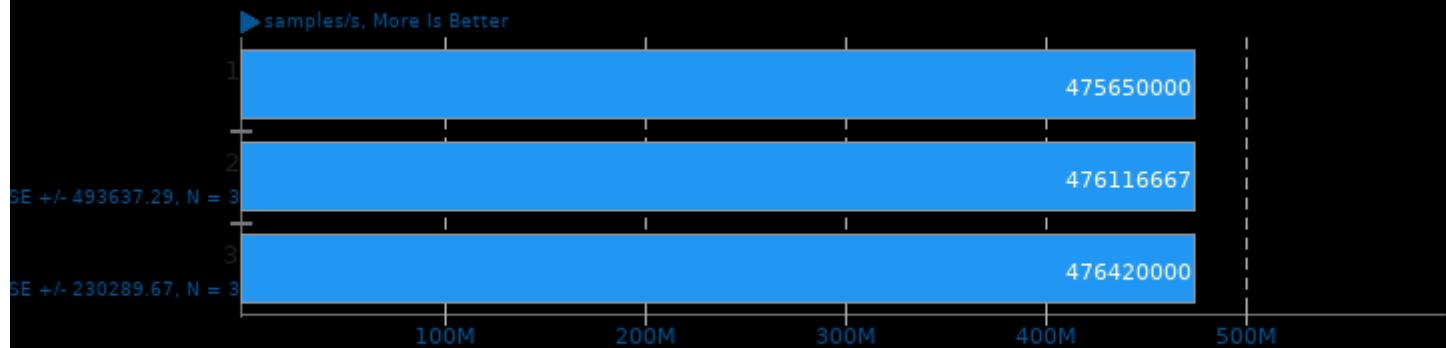
Threads: 4 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

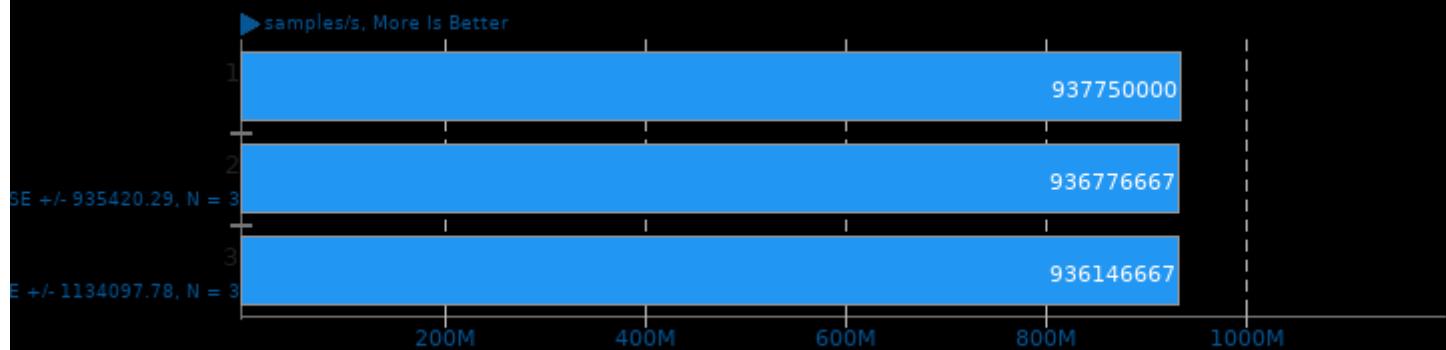
Threads: 8 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

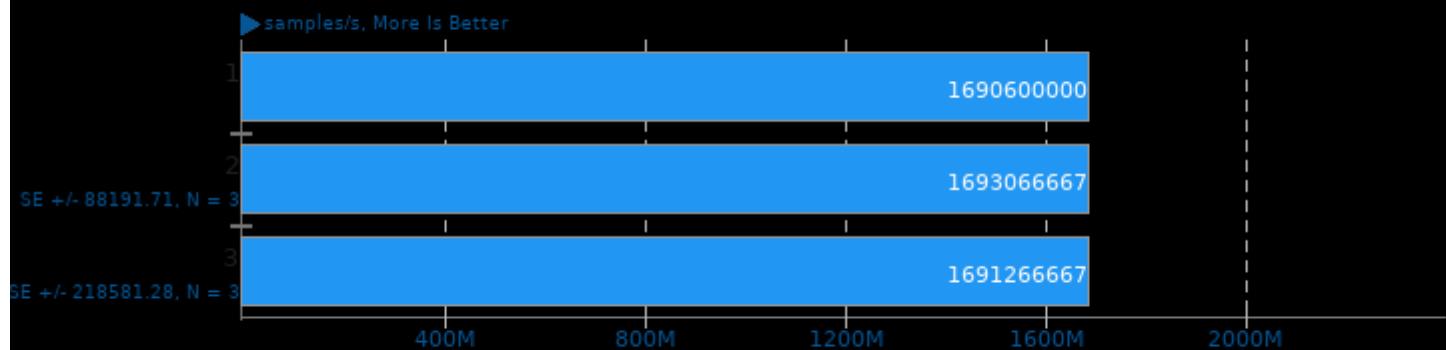
Threads: 16 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

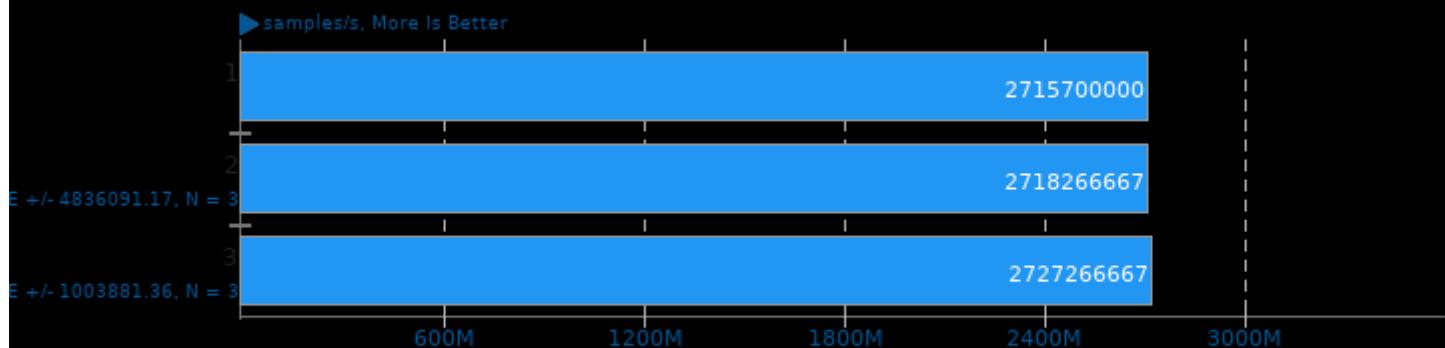
Threads: 32 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

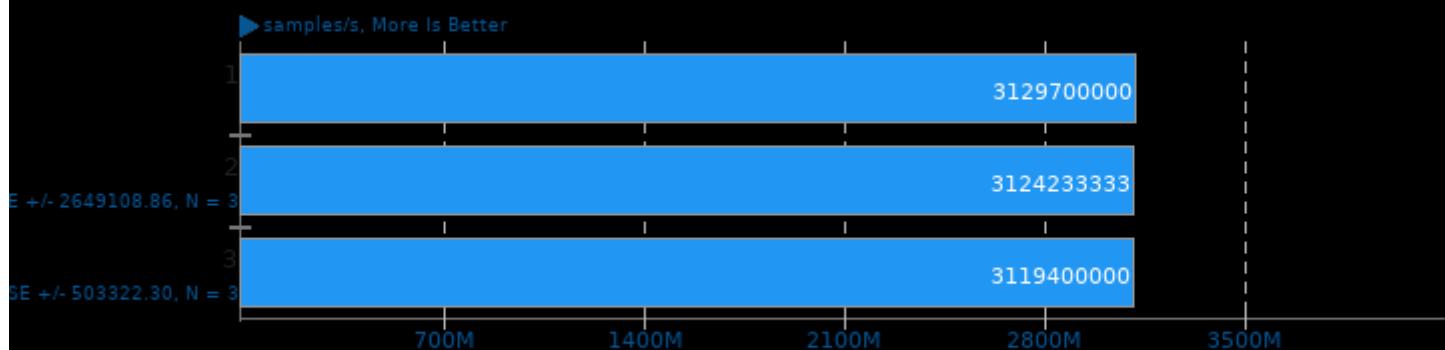
Threads: 64 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

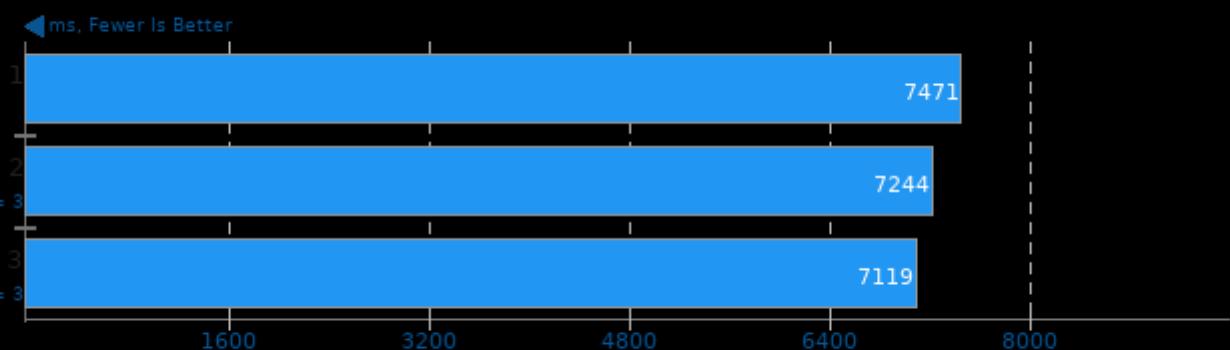
Threads: 128 - Buffer Length: 256 - Filter Length: 57



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

toyBrot Fractal Generator 2020-11-18

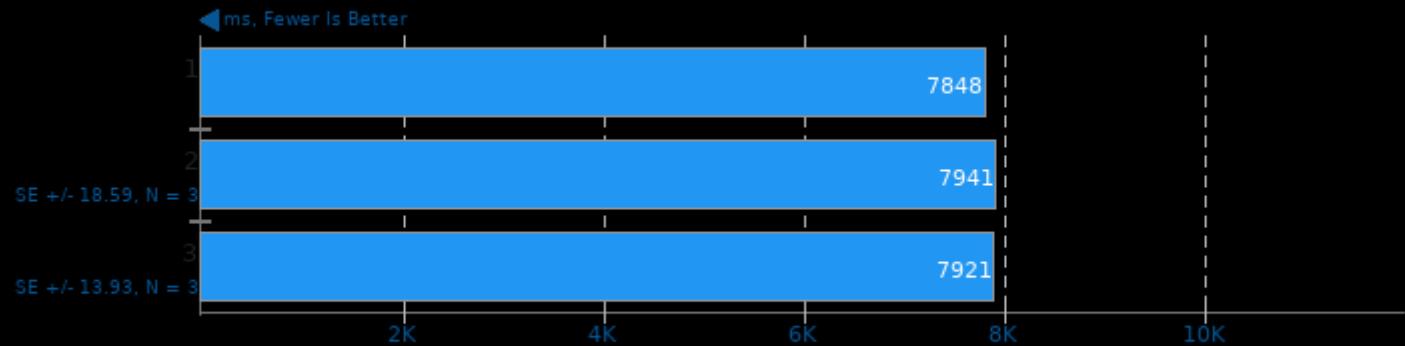
Implementation: TBB



1. (CXX) g++ options: -O3 -march=native -pthread -lm -lgcc -lgcc_s -lc

toyBrot Fractal Generator 2020-11-18

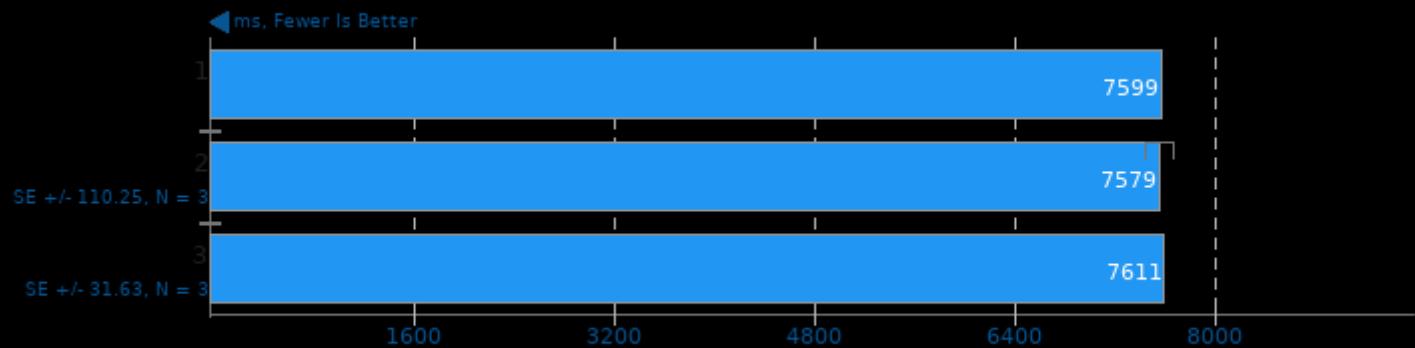
Implementation: OpenMP



1. (CXX) g++ options: -O3 -march=native -lpthread -lm -lgcc -lgcc_s -lc

toyBrot Fractal Generator 2020-11-18

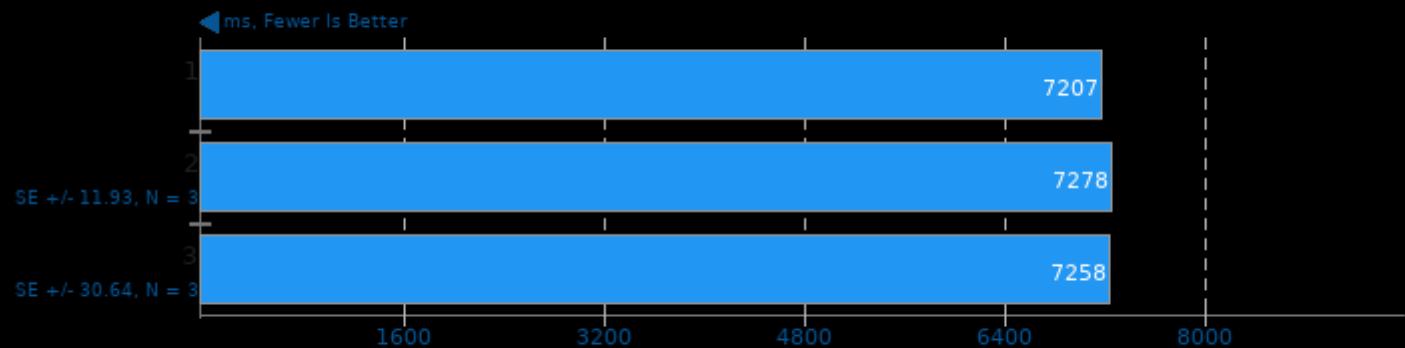
Implementation: C++ Tasks



1. (CXX) g++ options: -O3 -march=native -lpthread -lm -lgcc -lgcc_s -lc

toyBrot Fractal Generator 2020-11-18

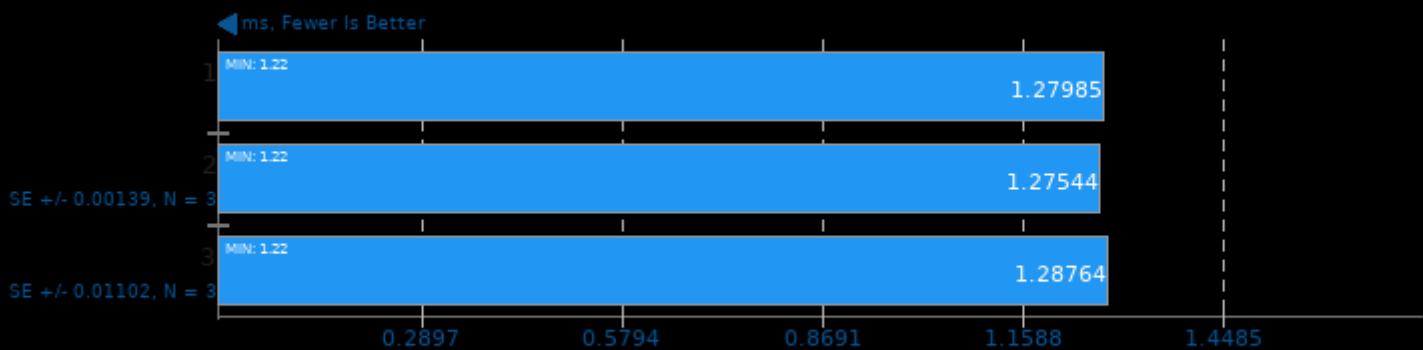
Implementation: C++ Threads



1. (CXX) g++ options: -O3 -march=native -lpthread -lm -lgcc -lgcc_s -lc

oneDNN 2.1.2

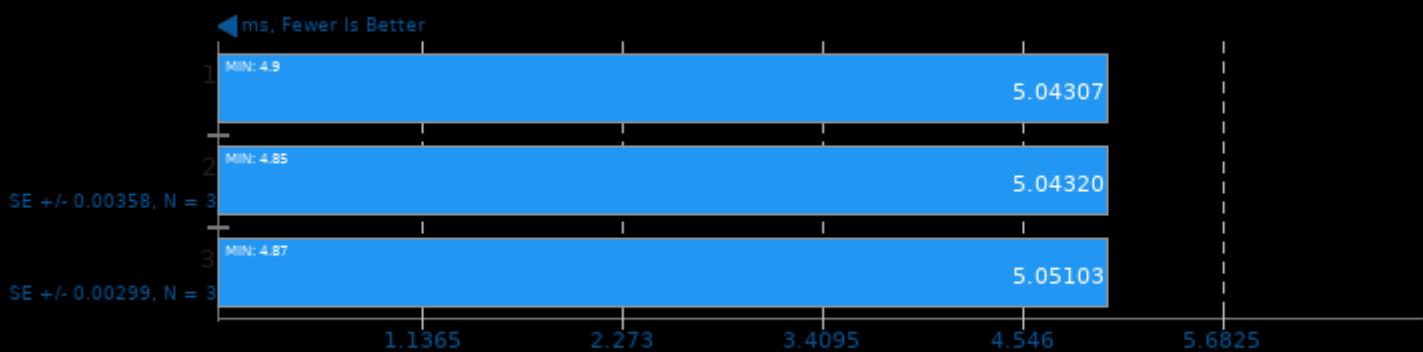
Harness: IP Shapes 1D - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

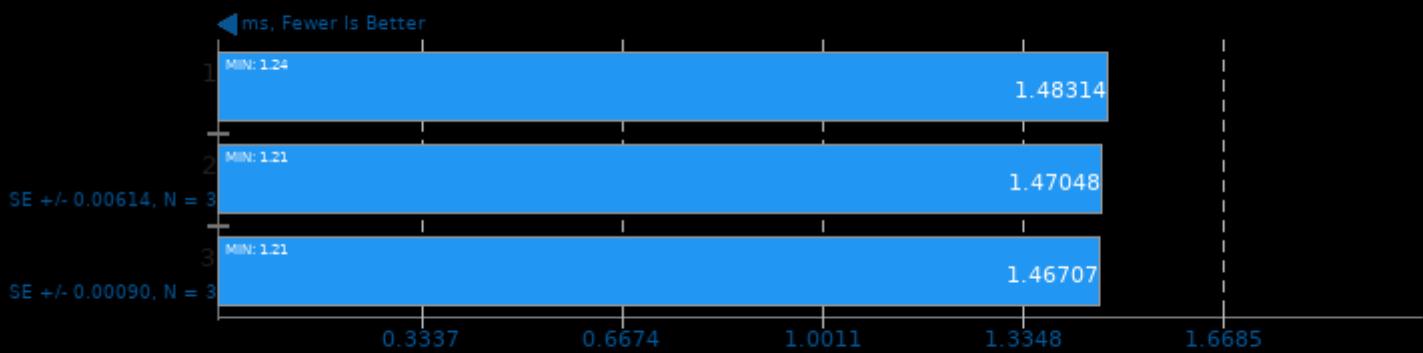
Harness: IP Shapes 3D - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

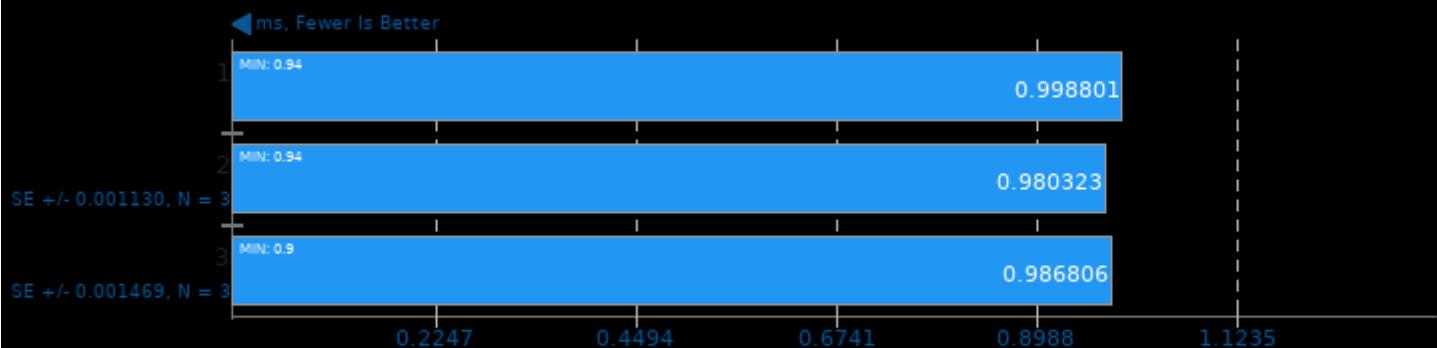
Harness: IP Shapes 1D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

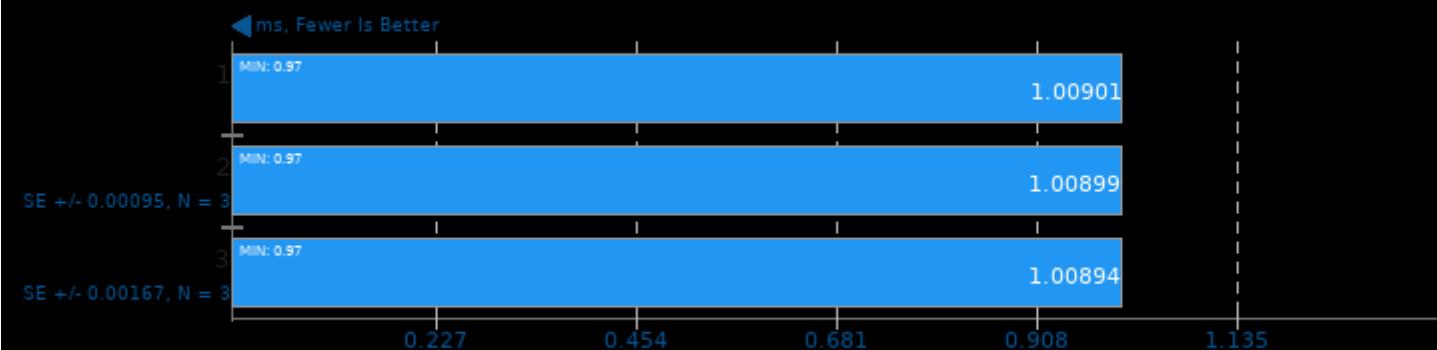
Harness: IP Shapes 3D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

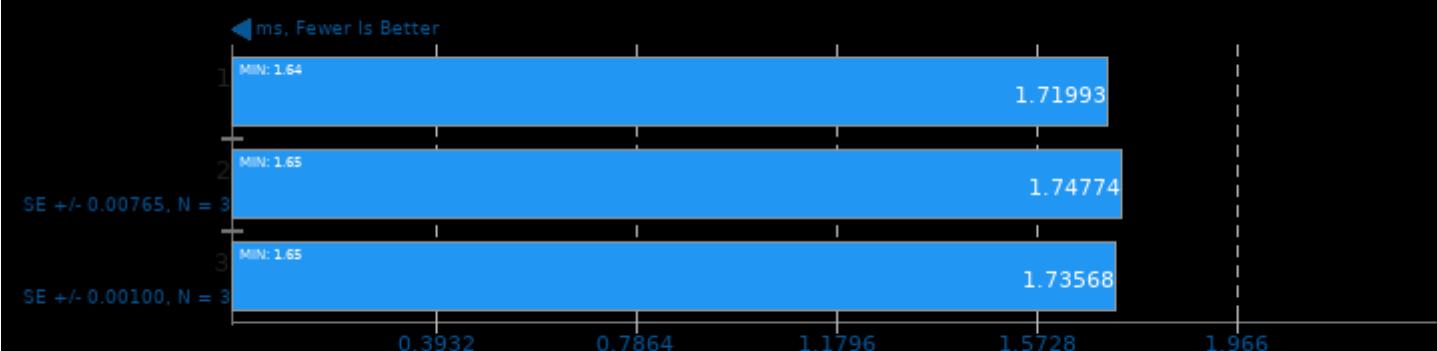
Harness: Convolution Batch Shapes Auto - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

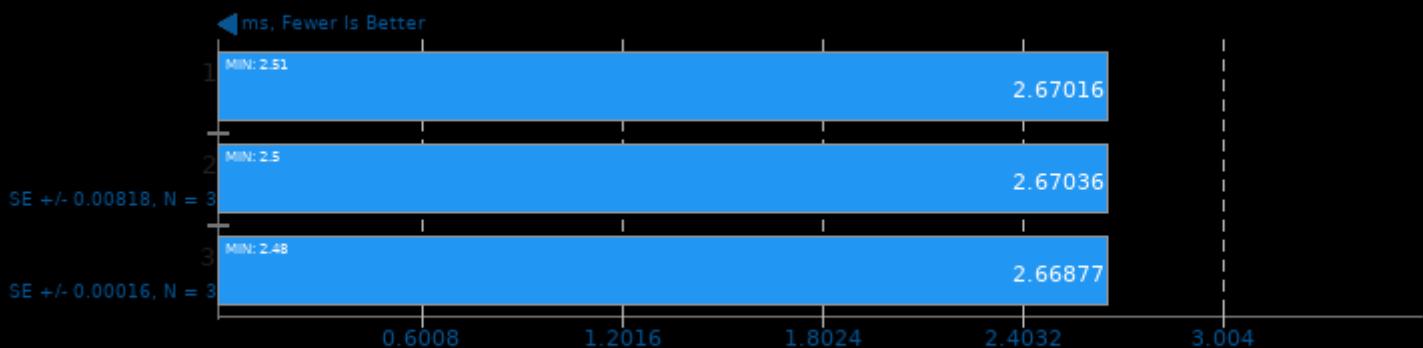
Harness: Deconvolution Batch shapes_1d - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

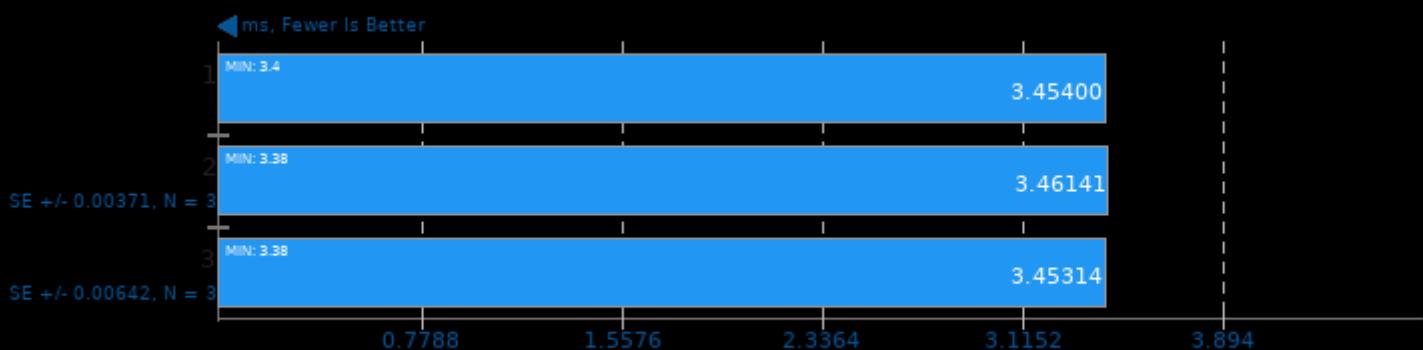
Harness: Deconvolution Batch shapes_3d - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

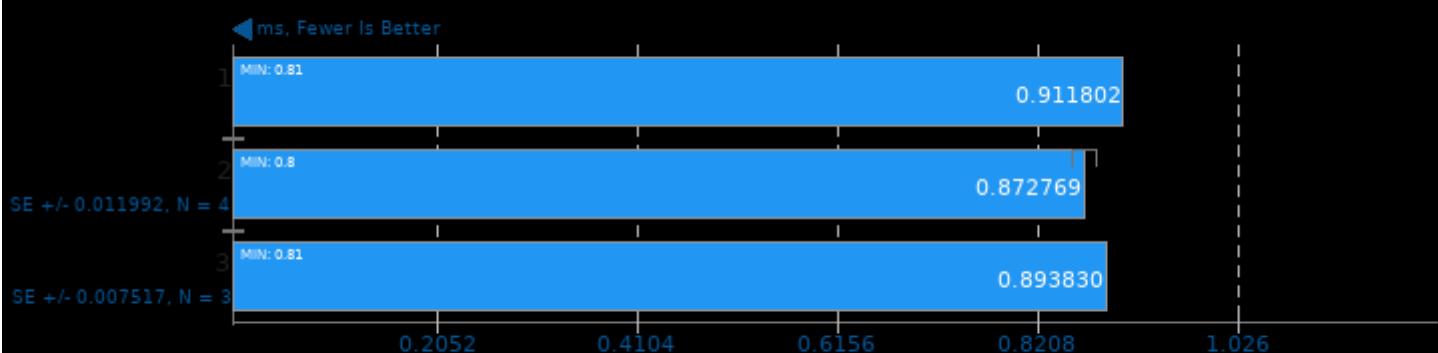
Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

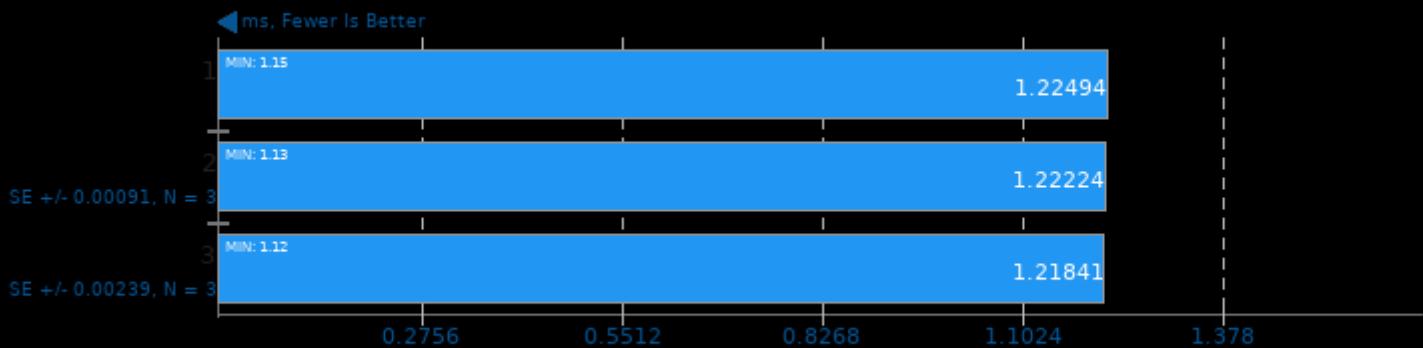
Harness: Deconvolution Batch shapes_1d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

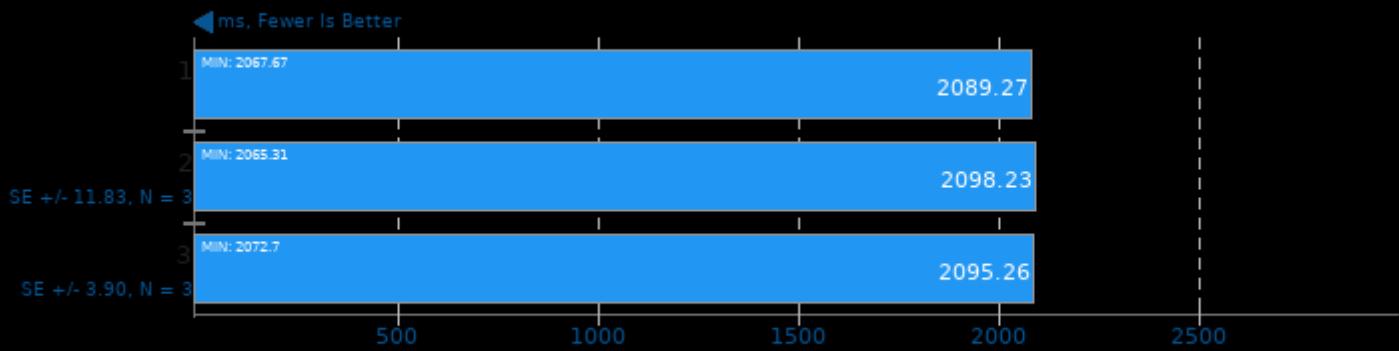
Harness: Deconvolution Batch shapes_3d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

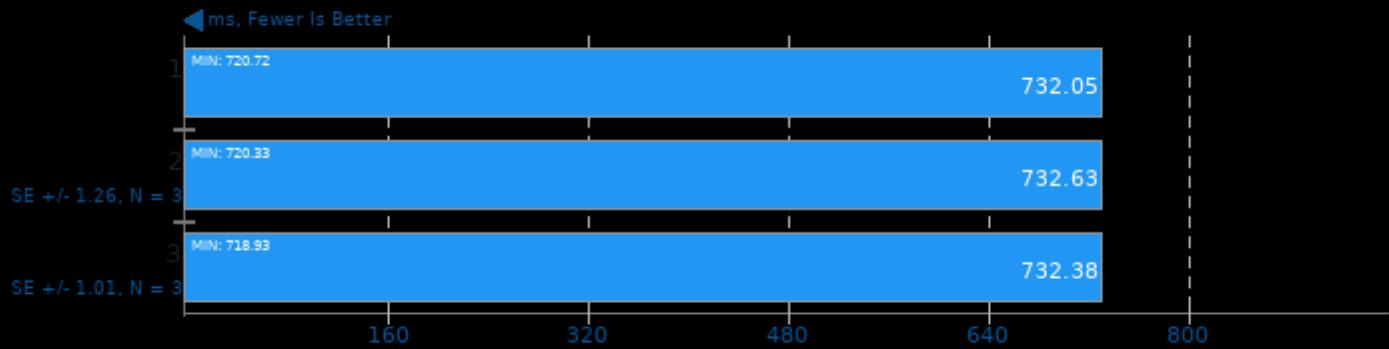
Harness: Recurrent Neural Network Training - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

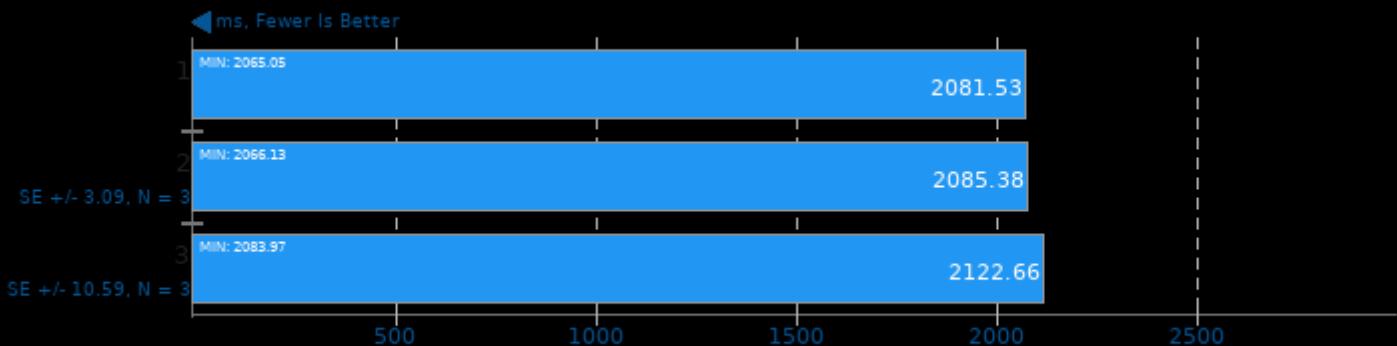
Harness: Recurrent Neural Network Inference - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

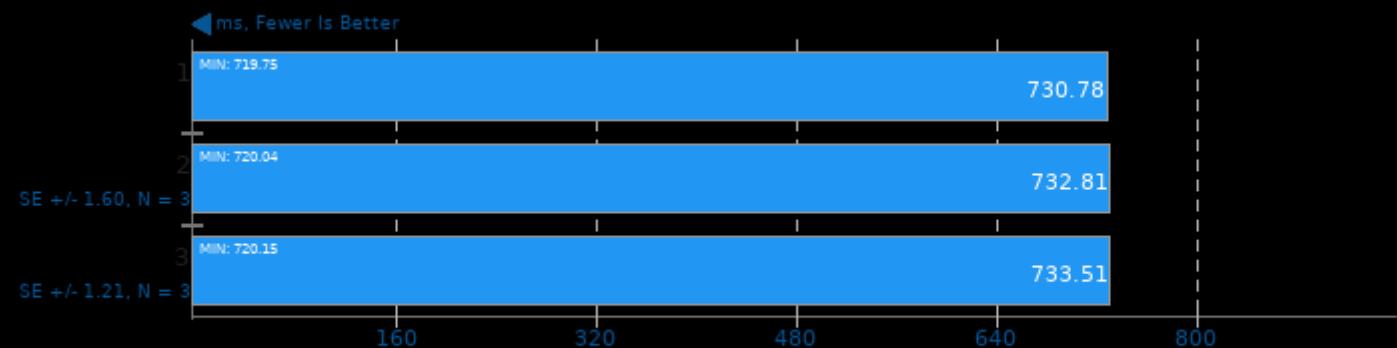
Harness: Recurrent Neural Network Training - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

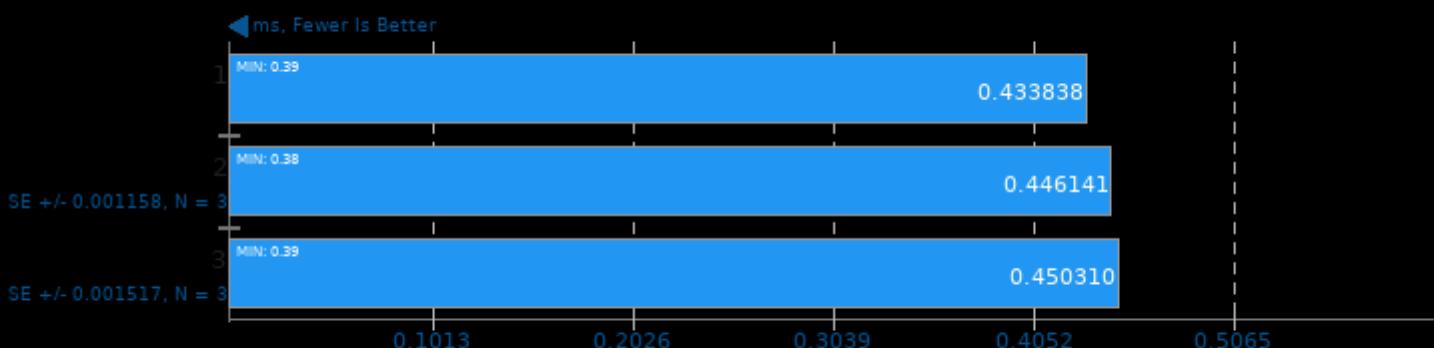
Harness: Recurrent Neural Network Inference - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

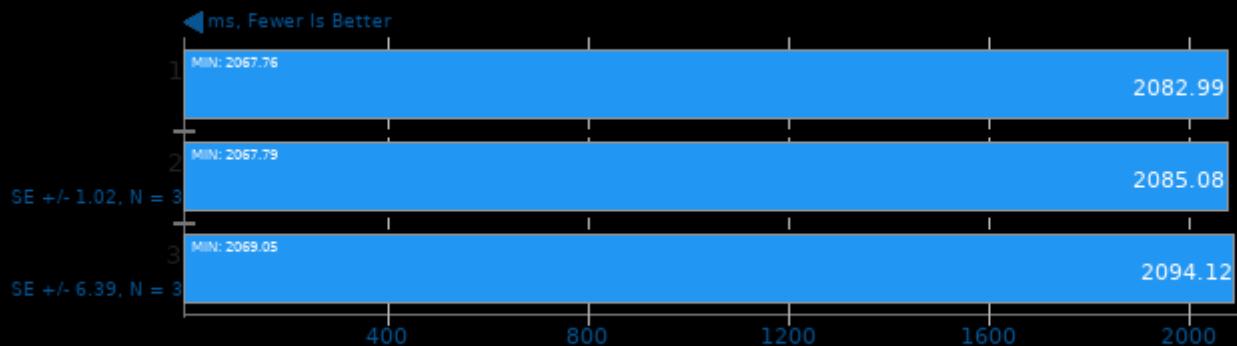
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

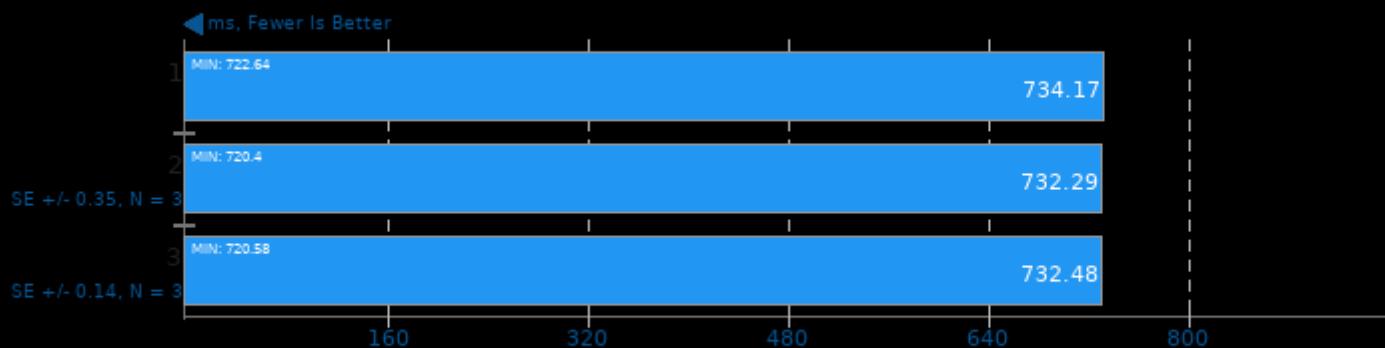
Harness: Recurrent Neural Network Training - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

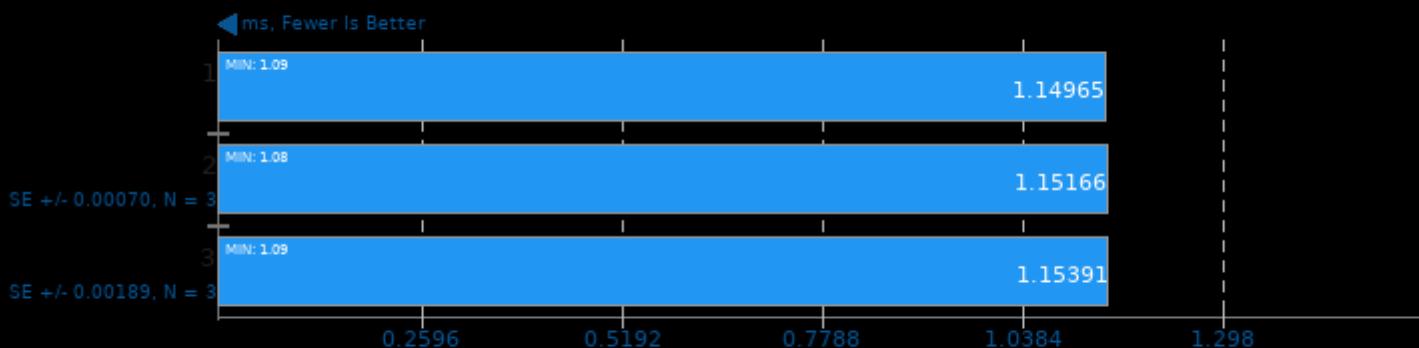
Harness: Recurrent Neural Network Inference - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

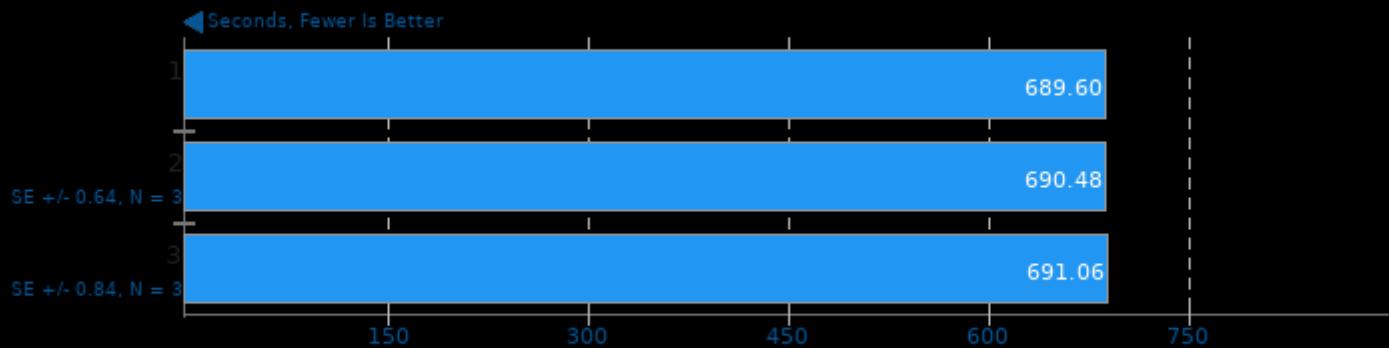
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp=libomp -msse4.1 -fPIC -pie -lpthread -ldl

Xcompact3d Incompact3d 2021-03-11

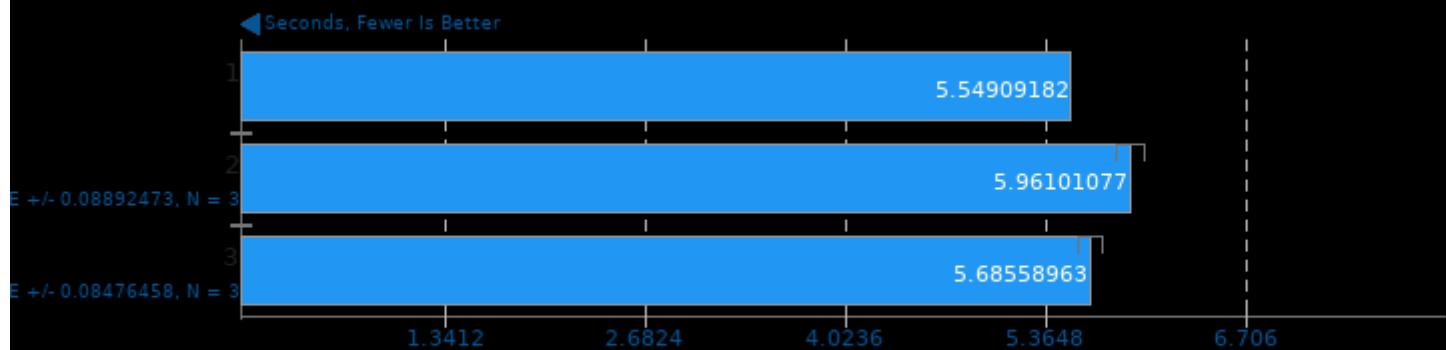
Input: X3D-benchmarking input.i3d



1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi

Xcompact3d Incompact3d 2021-03-11

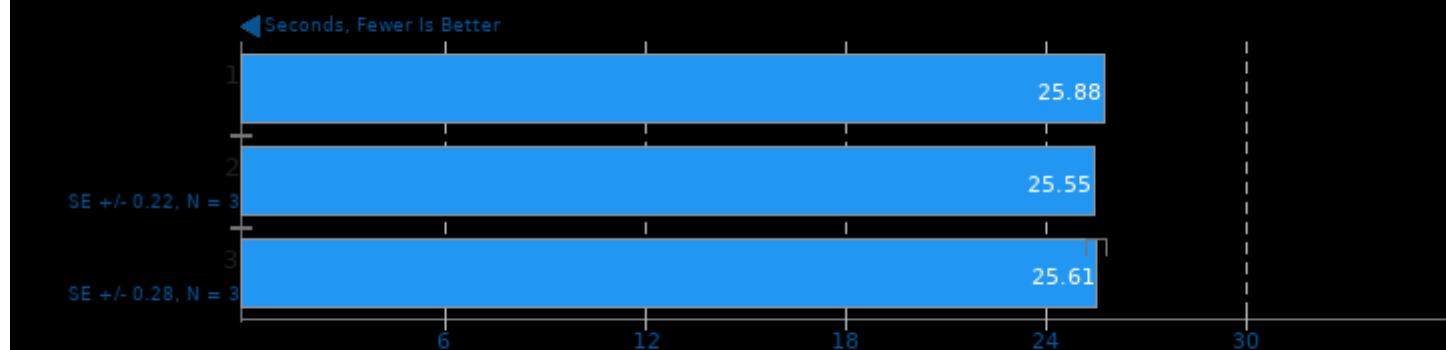
Input: input.i3d 129 Cells Per Direction



1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi

Xcompact3d Incompact3d 2021-03-11

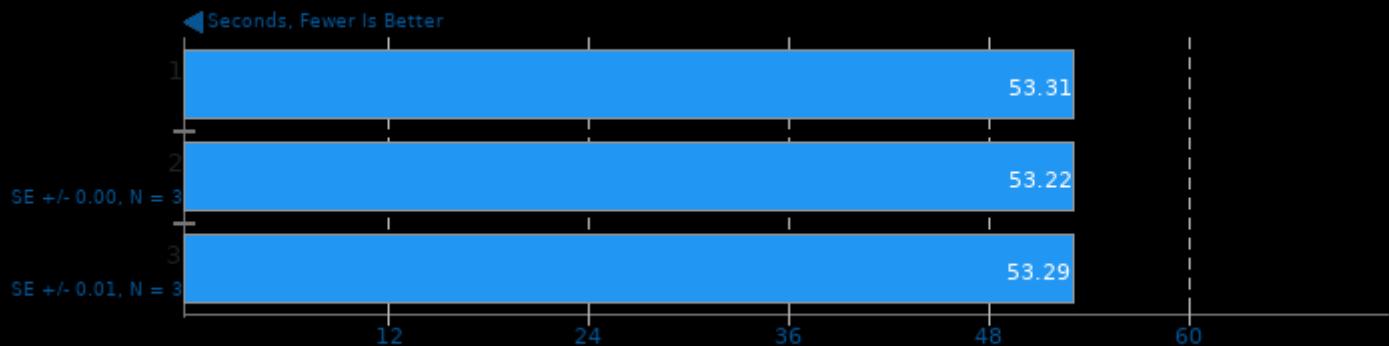
Input: input.i3d 193 Cells Per Direction



1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi

libavif avifenc 0.9.0

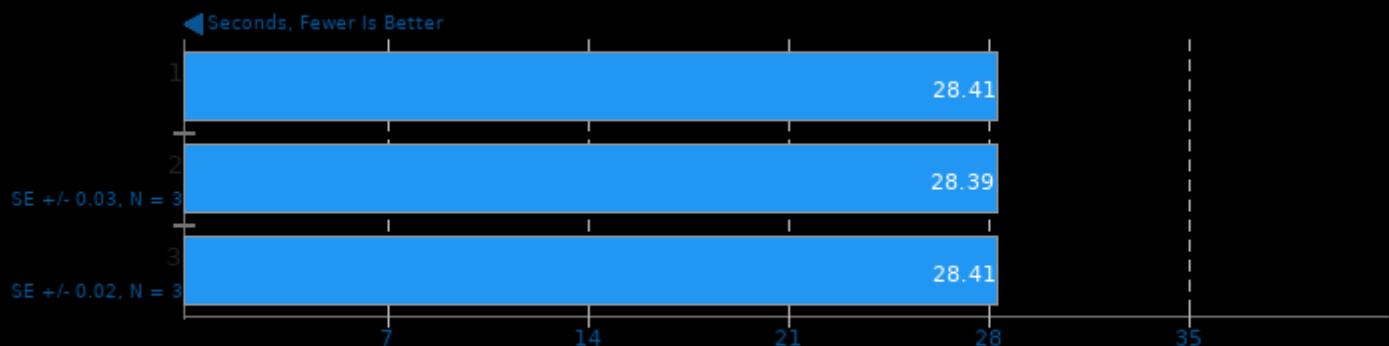
Encoder Speed: 0



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

libavif avifenc 0.9.0

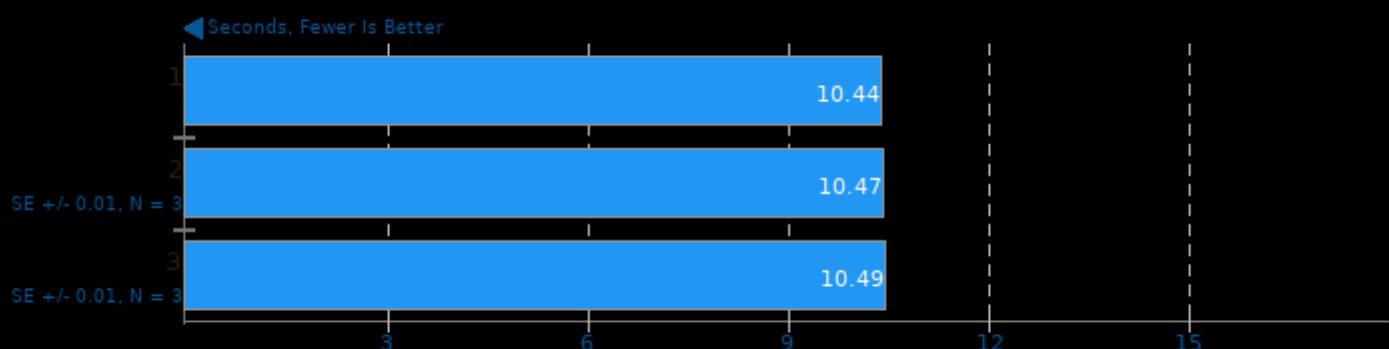
Encoder Speed: 2



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

libavif avifenc 0.9.0

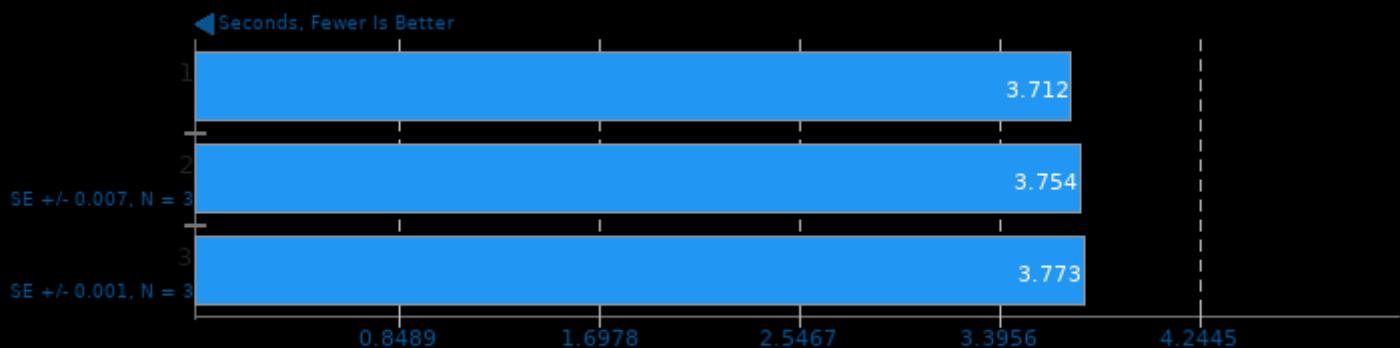
Encoder Speed: 6



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

libavif avifenc 0.9.0

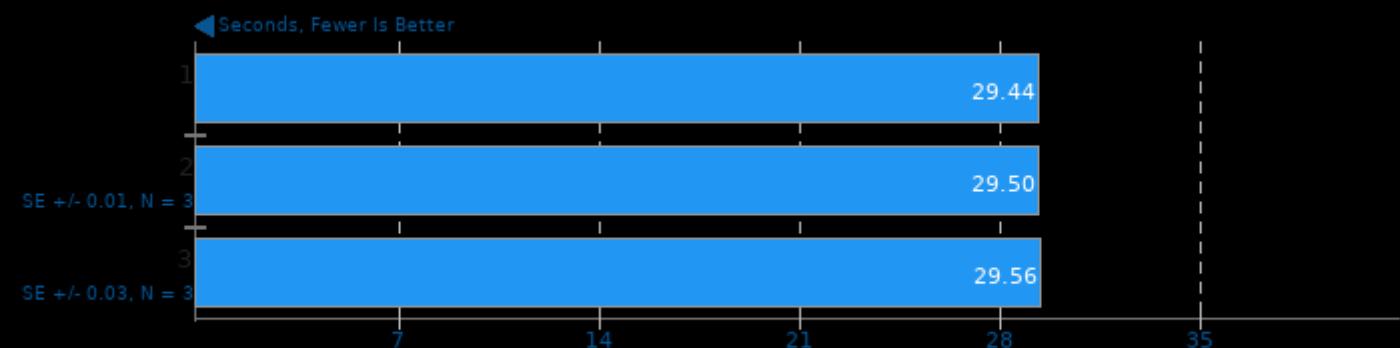
Encoder Speed: 10



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

libavif avifenc 0.9.0

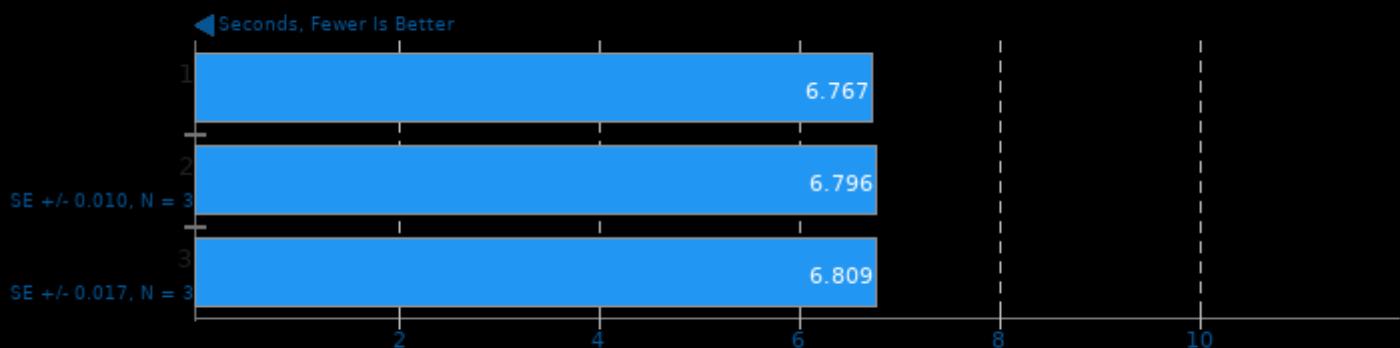
Encoder Speed: 6, Lossless



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

libavif avifenc 0.9.0

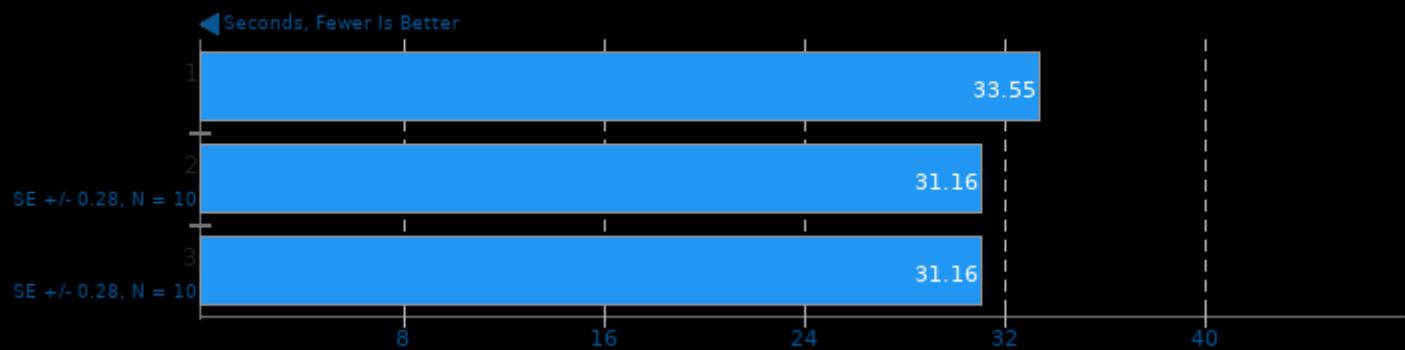
Encoder Speed: 10, Lossless



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

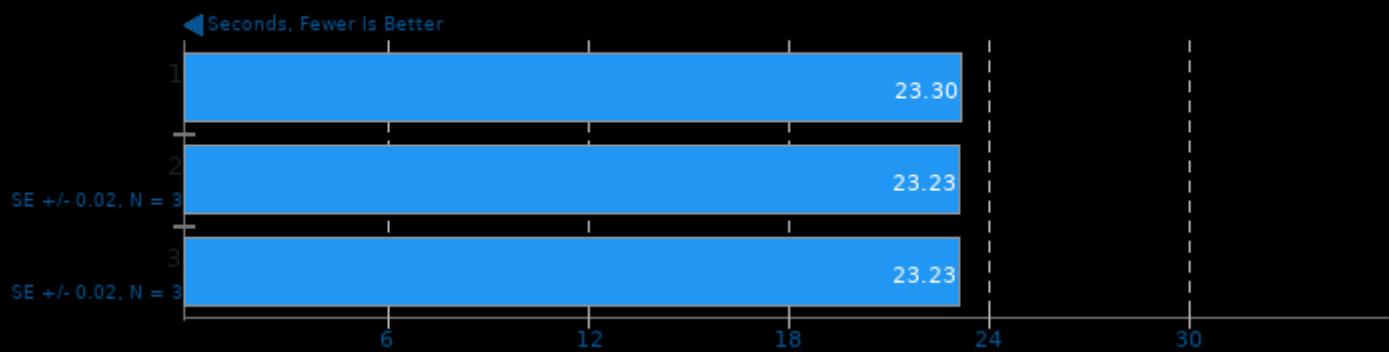
Timed Linux Kernel Compilation 5.10.20

Time To Compile



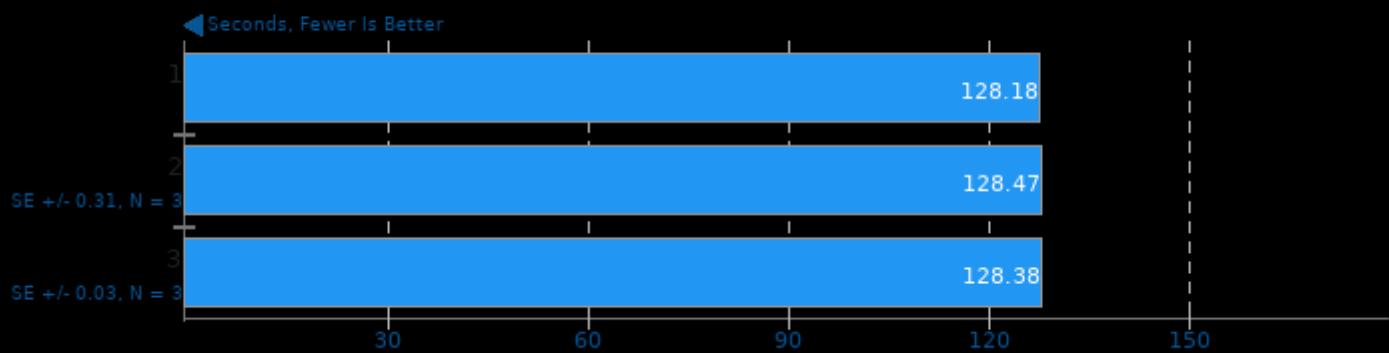
Timed Mesa Compilation 21.0

Time To Compile



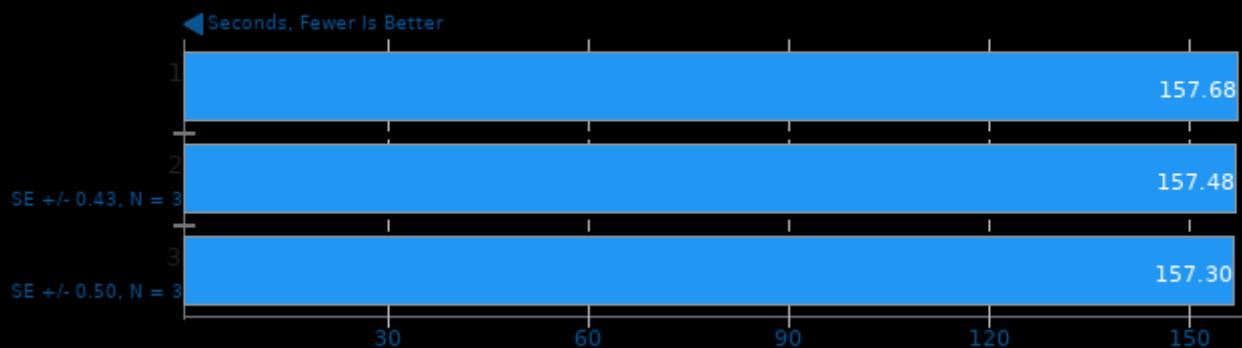
Timed Node.js Compilation 15.11

Time To Compile



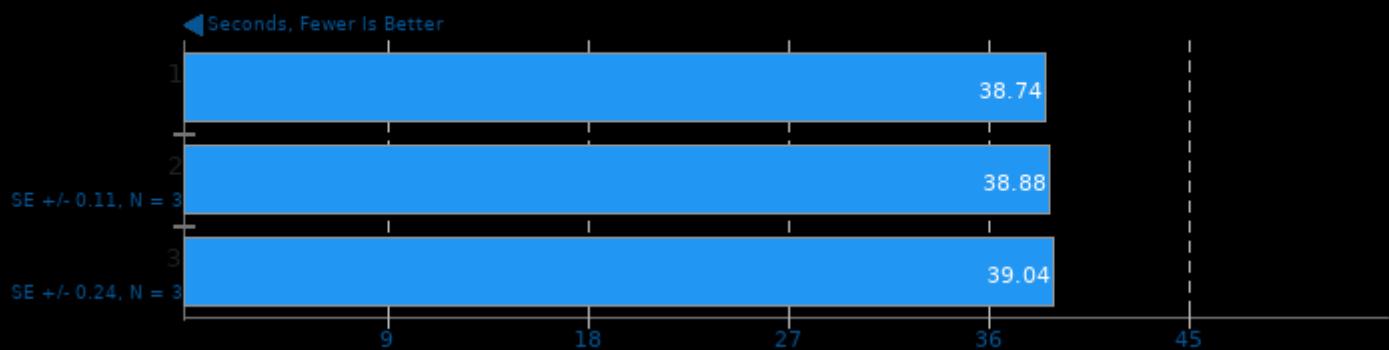
Timed Erlang/OTP Compilation 23.2

Time To Compile



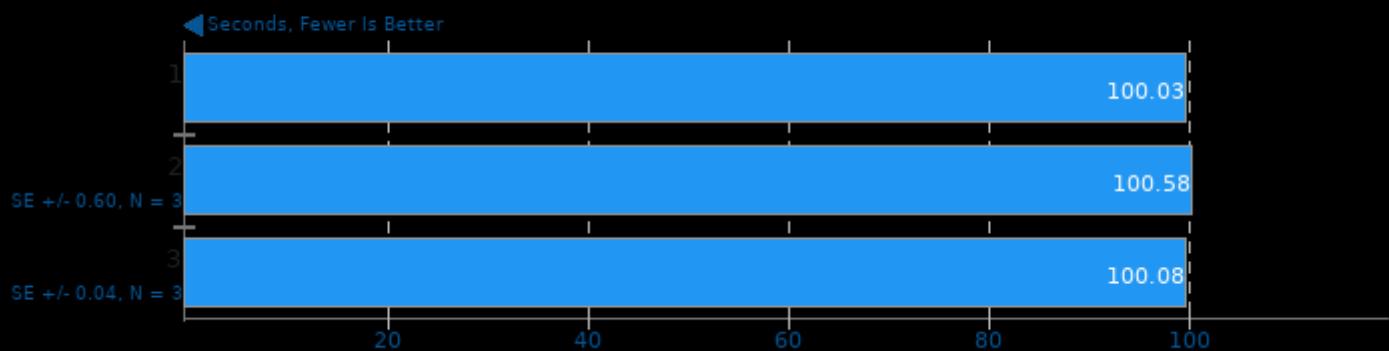
Blender 2.92

Blend File: BMW27 - Compute: CPU-Only



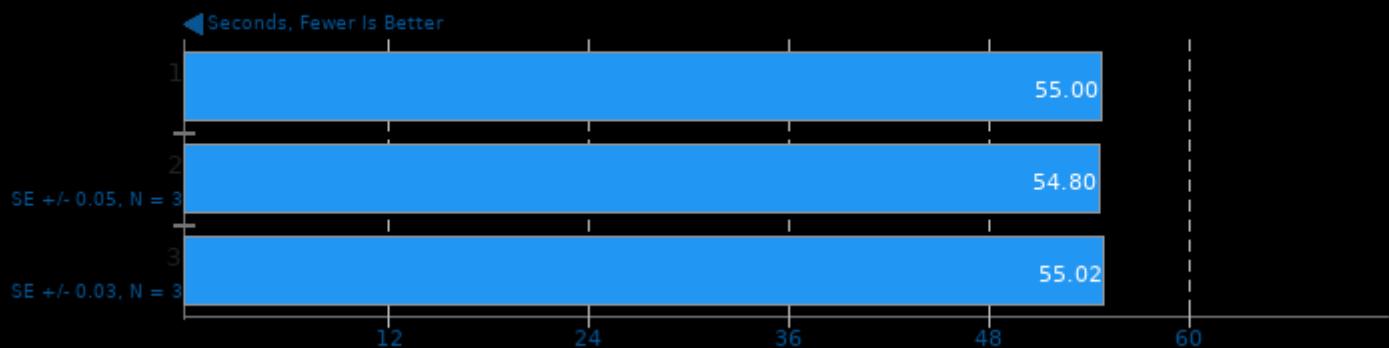
Blender 2.92

Blend File: Classroom - Compute: CPU-Only



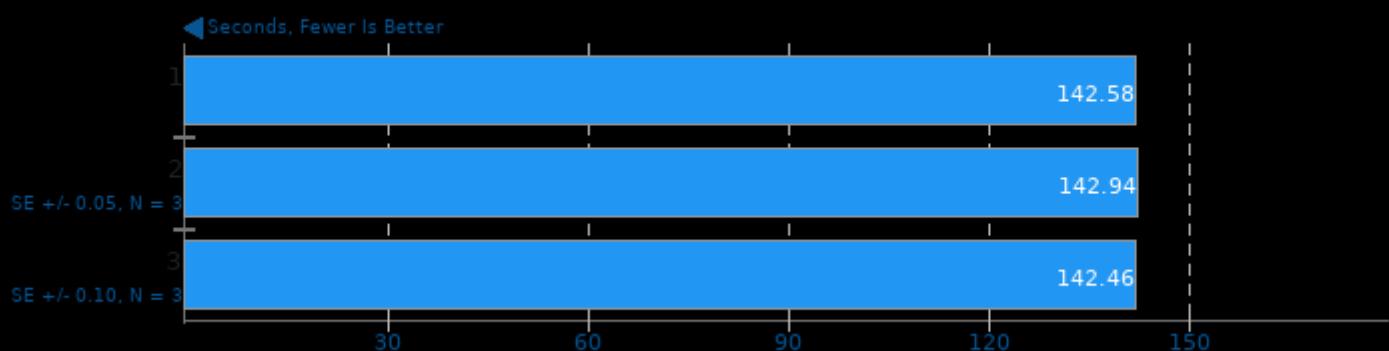
Blender 2.92

Blend File: Fishy Cat - Compute: CPU-Only



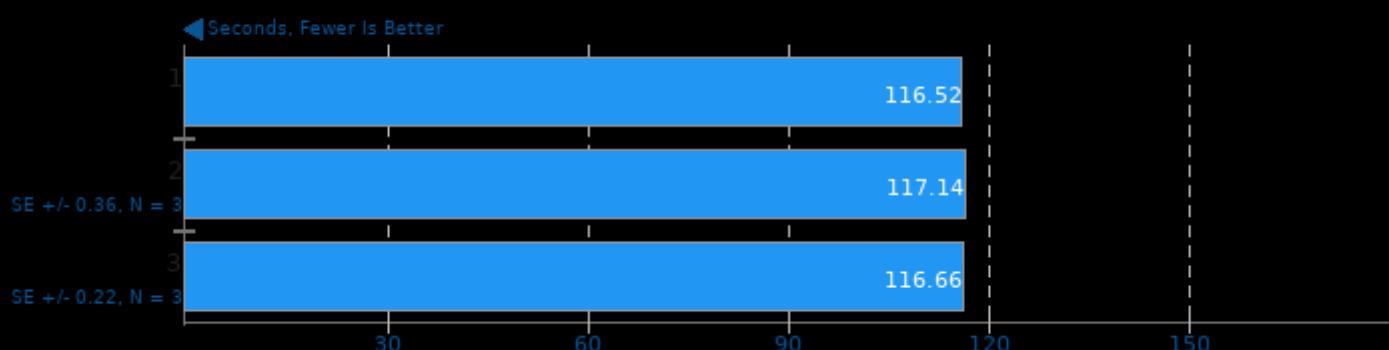
Blender 2.92

Blend File: Barbershop - Compute: CPU-Only



Blender 2.92

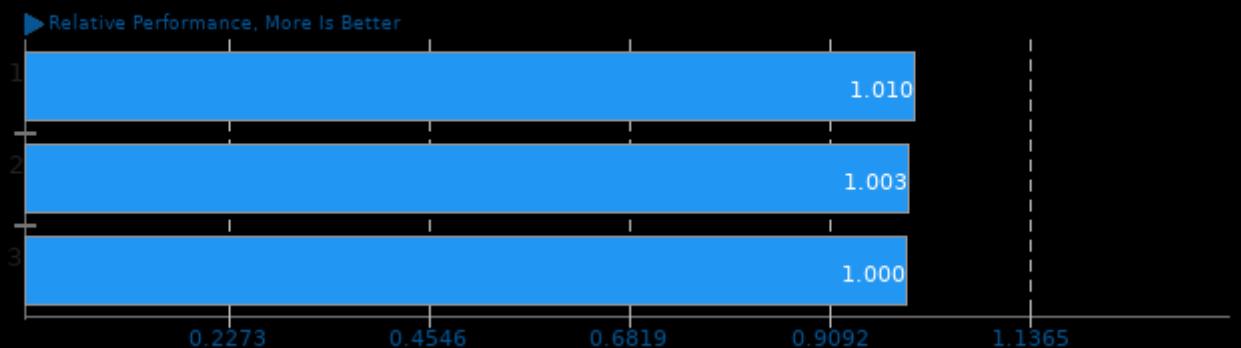
Blend File: Pabellon Barcelona - Compute: CPU-Only



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

Geometric Mean Of AV1 Tests

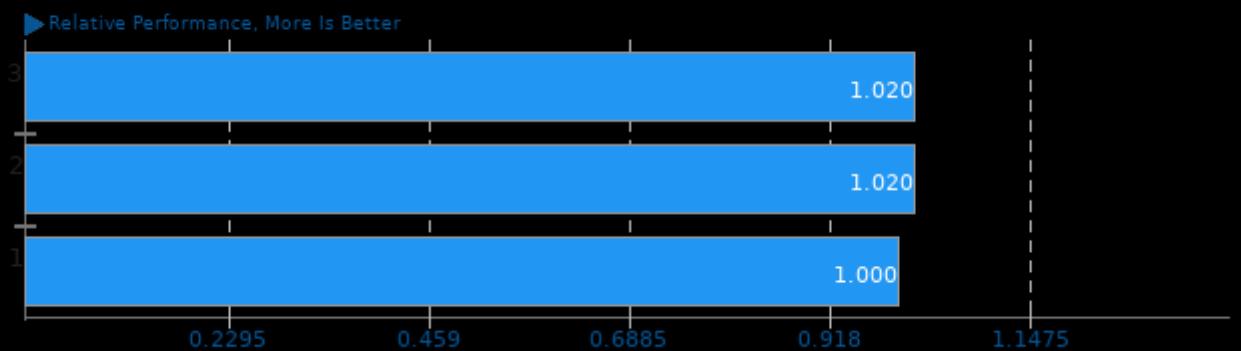
Result Composite - EPYC 7702 April 2021



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

Geometric Mean Of Timed Code Compilation Tests

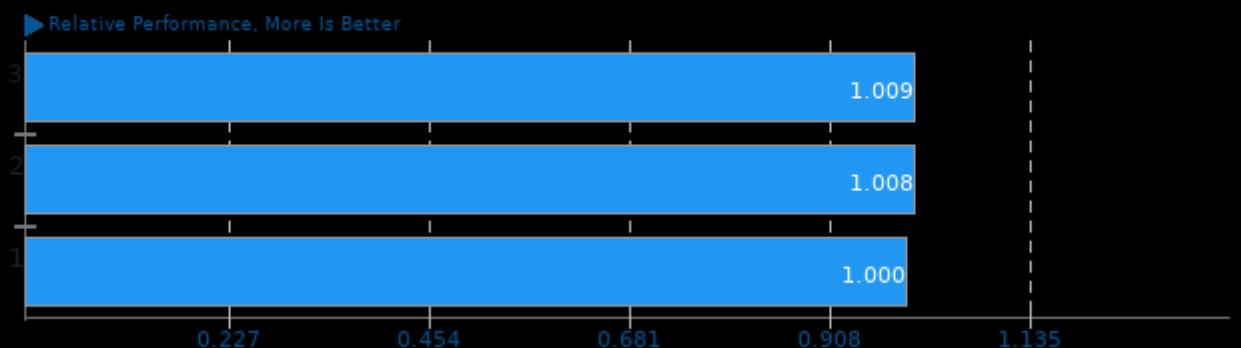
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/build-linux-kernel, pts/build-erlang, pts/build-nodejs and pts/build-mesa

Geometric Mean Of C/C++ Compiler Tests

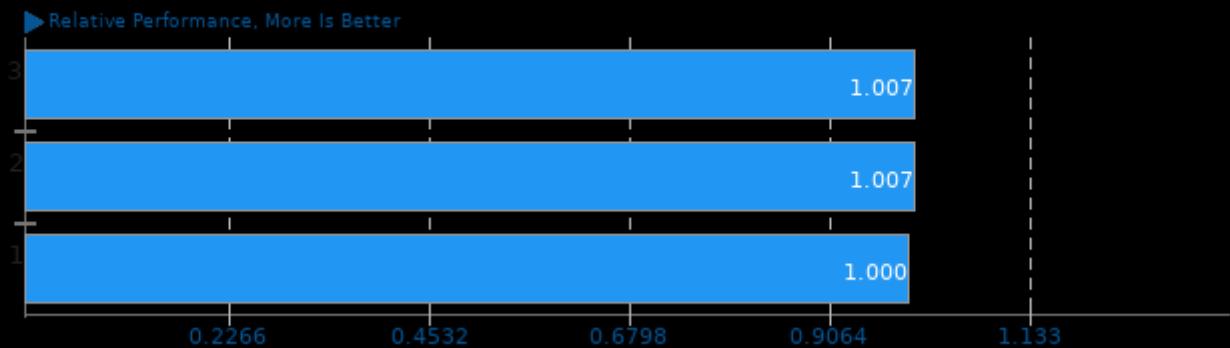
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/stockfish, pts/compress-zstd, pts/aom-av1, pts/svt-vp9 and pts/toybrot

Geometric Mean Of CPU Massive Tests

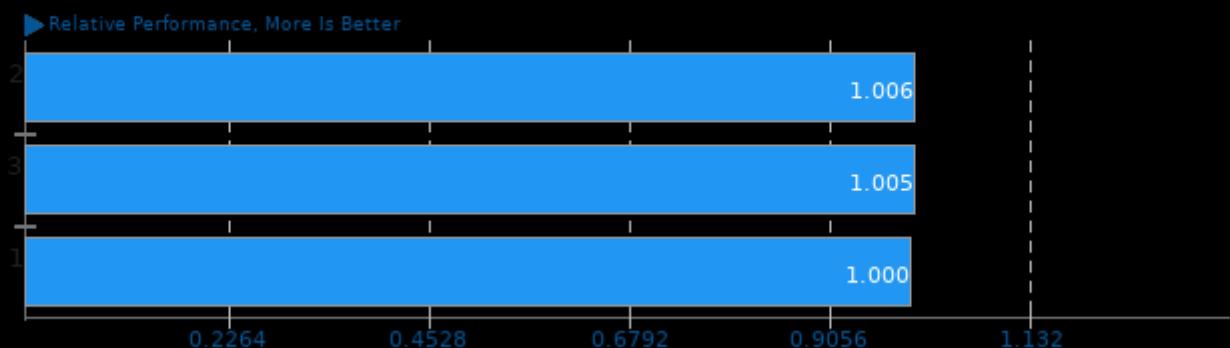
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/build-linux-kernel, pts/compress-zstd, pts/svt-hevc, pts/svt-vp9, pts/onnednn, pts/stockfish, pts/sysbench, pts/blender and pts/botan

Geometric Mean Of Creator Workloads Tests

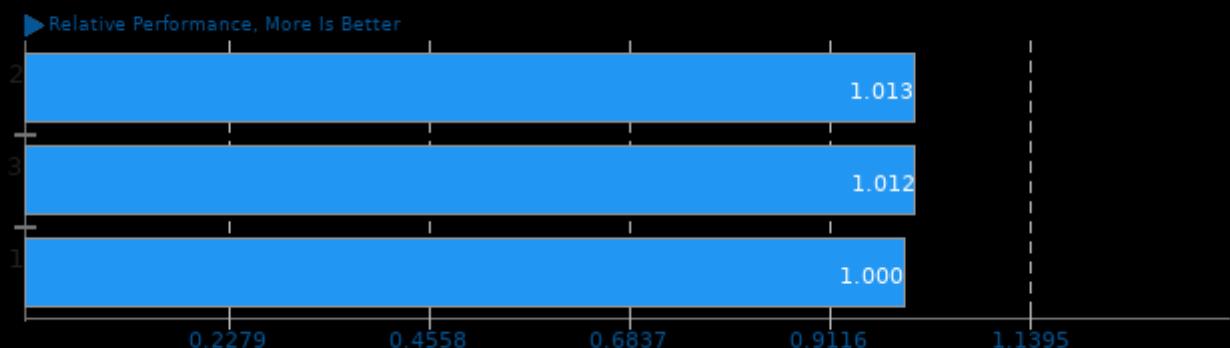
Result Composite - EPYC 7702 April 2021



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

Geometric Mean Of Encoding Tests

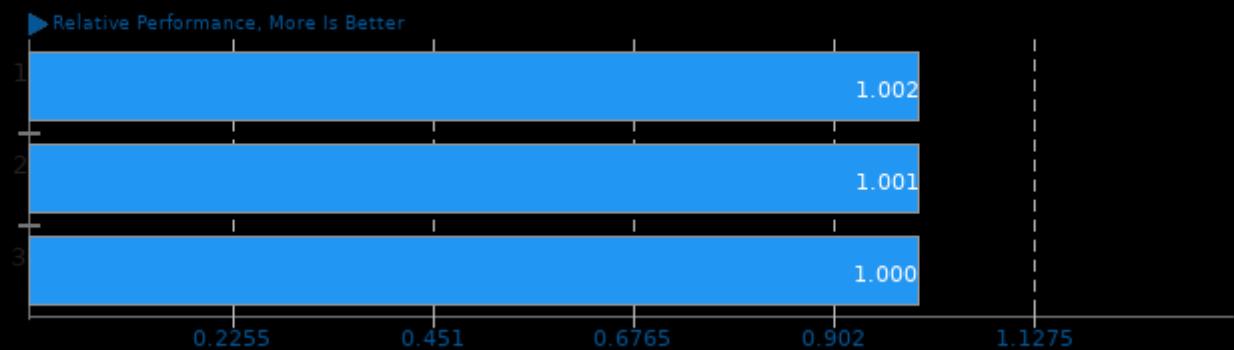
Result Composite - EPYC 7702 April 2021



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

Geometric Mean Of HPC - High Performance Computing Tests

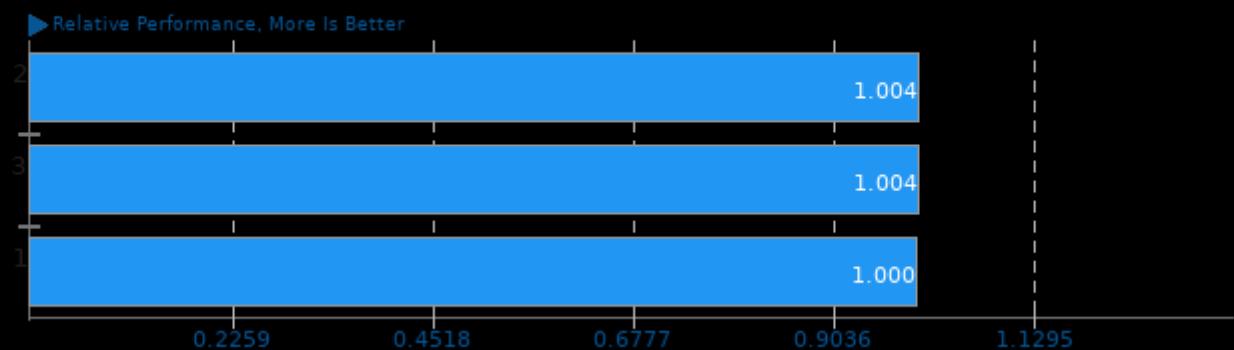
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/incompact3d and pts/onnednn

Geometric Mean Of Multi-Core Tests

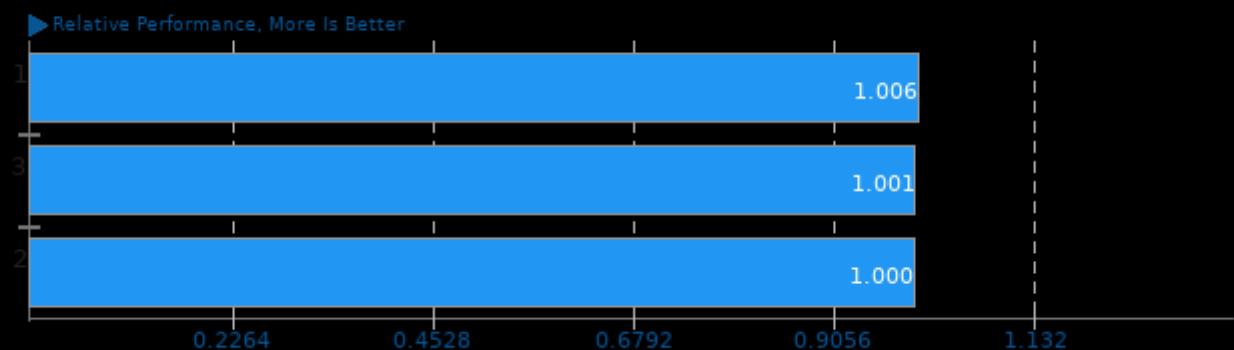
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/blender, pts/sysbench, pts/stockfish, pts/svt-vp9, pts/svt-hevc, pts/aom-av1, pts/onnednn, pts/compress-zstd, pts/build-linux-kernel, pts/build-erlang, pts/build-nodejs and pts/build-mesa

Geometric Mean Of NVIDIA GPU Compute Tests

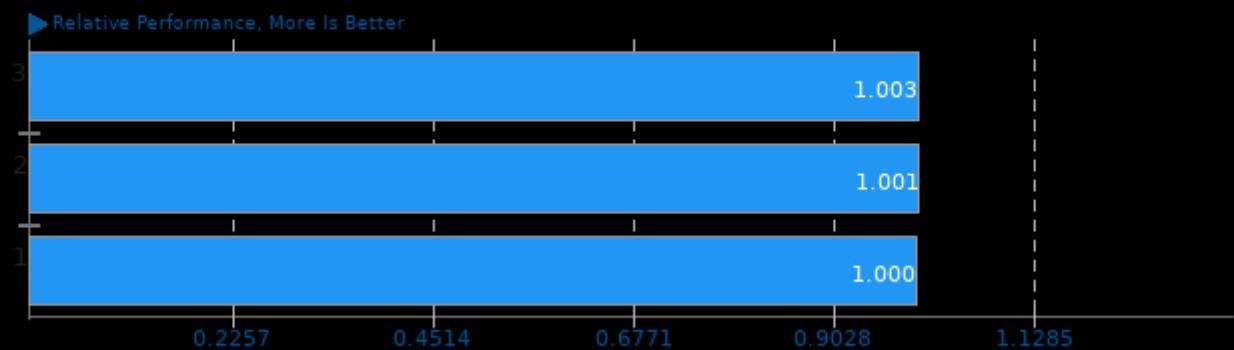
Result Composite - EPYC 7702 April 2021



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

Geometric Mean Of Programmer / Developer System Benchmarks Tests

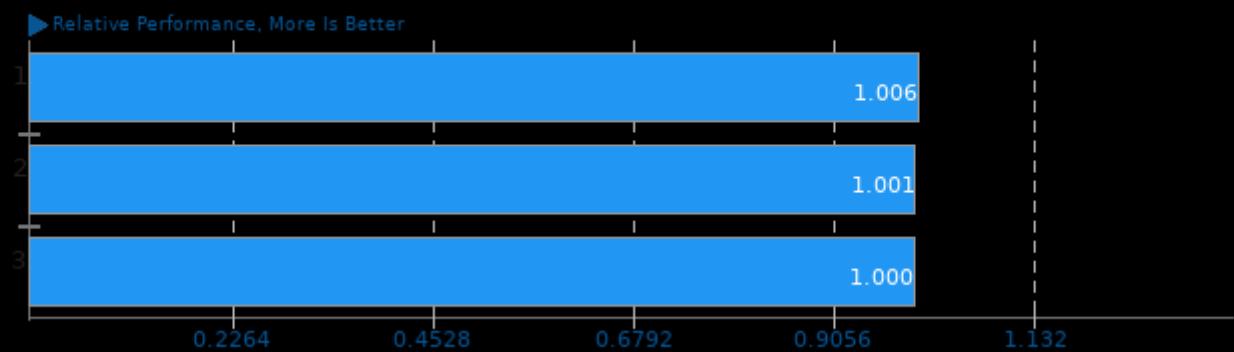
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/simdjson, pts/compress-zstd, pts/build-linux-kernel, pts/build-erlang, pts/build-nodejs and pts/build-mesa

Geometric Mean Of Python Tests

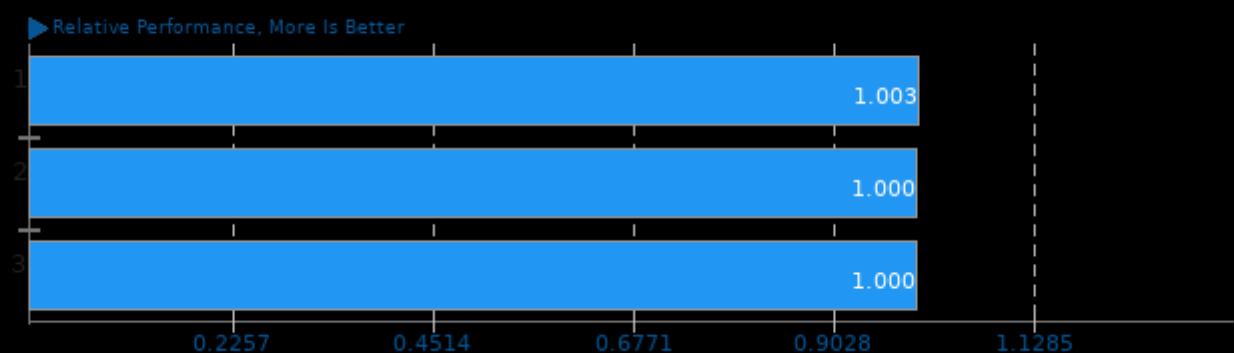
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: system/gnuradio, pts/build-mesa and pts/build-nodejs

Geometric Mean Of Software Defined Radio Tests

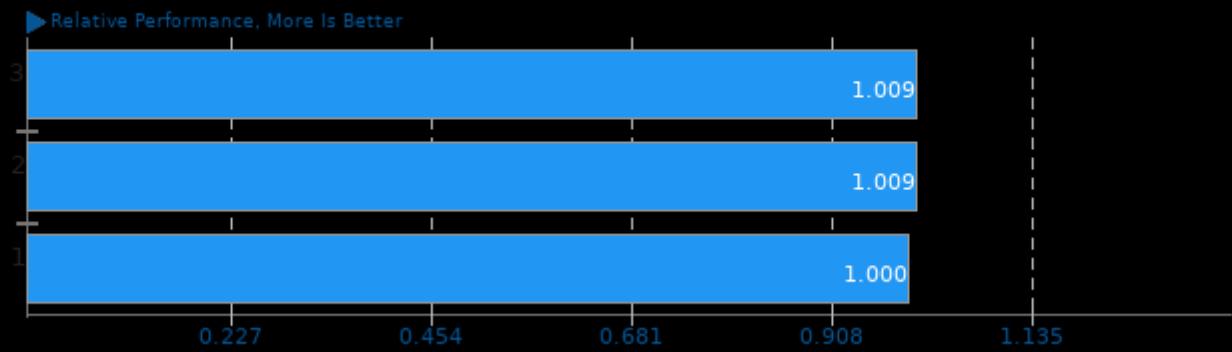
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/liquid-dsp, pts/luaradio and system/gnuradio

Geometric Mean Of Server CPU Tests

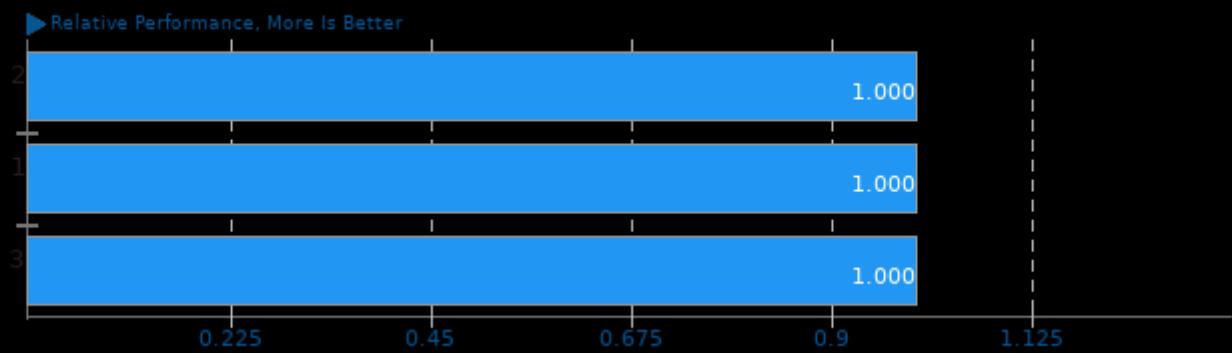
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/onnednn, pts/svt-hevc, pts/svt-vp9, pts/stockfish, pts/build-linux-kernel, pts/compress-zstd, pts/sysbench and pts/blender

Geometric Mean Of Single-Threaded Tests

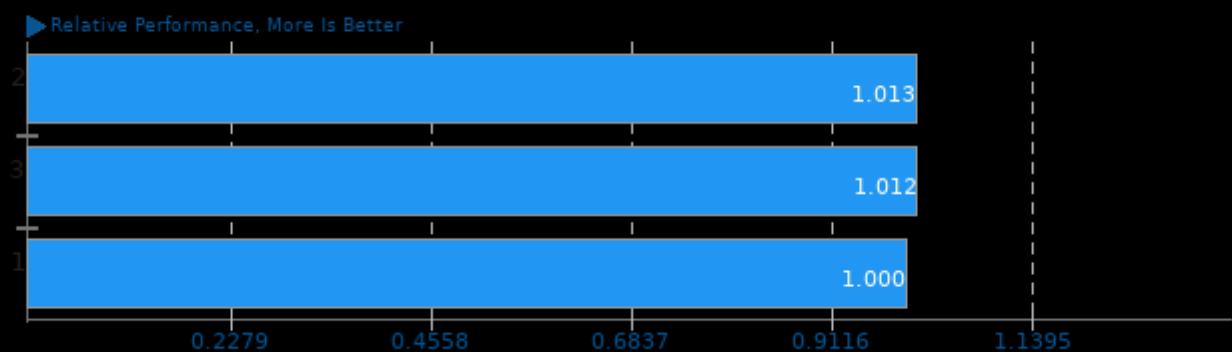
Result Composite - EPYC 7702 April 2021



Geometric mean based upon tests: pts/gmpbench and pts/botan

Geometric Mean Of Video Encoding Tests

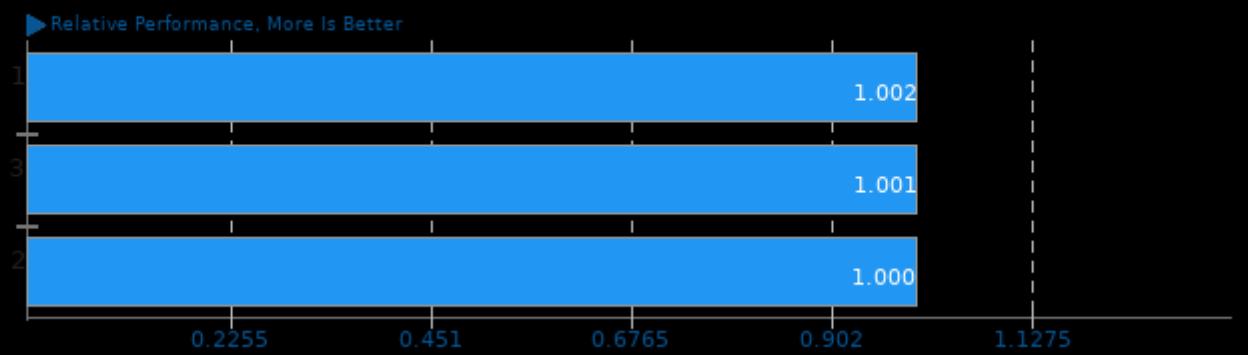
Result Composite - EPYC 7702 April 2021



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

Geometric Mean Of Common Workstation Benchmarks Tests

Result Composite - EPYC 7702 April 2021



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:34.