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sat

Intel Core i9-10980XE testing with a ASRock X299 Steel Legend (P1.30 BIOS) and NVIDIA NV132 11GB on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 38% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.017x the speed of the slowest (3). 2 was 0.989x the speed of 1 and 3 was 0.994x the speed of 2.

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

Redis Memtier / Redis Benchmark (Test: GET) at 2.027x

Redis Memtier / Redis Benchmark (Test: MIX) at 1.724x

Zstd Compression (Compression Level: 19, Long Mode - Compression Speed) at 1.272x

OpenCV (Test: DNN - Deep Neural Network) at 1.165x

Zstd Compression (Compression Level: 8, Long Mode - Compression Speed) at 1.133x

OpenCV (Test: Features 2D) at 1.131x

NAS Parallel Benchmarks (Test / Class: CG.C) at 1.075x

Redis Memtier / Redis Benchmark (Test: SET) at 1.065x

Zstd Compression (Compression Level: 19 - Compression Speed) at 1.056x

NAS Parallel Benchmarks (Test / Class: EP.C) at 1.054x.

Test Systems:

1

2

3

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

OS: Ubuntu 21.04, Kernel: 5.11.0-31-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server 1.20.11 + Wayland, Display Driver: nouveau, OpenGL: 4.3 Mesa 21.0.1, Vulkan: 1.0.2, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 2560x1600

Kernel Notes: Transparent Huge Pages: madvise
 Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-gcn/usr, hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-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_cpfreq schedutil - CPU Microcode: 0x5003102
 Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx_async_abort: Mitigation of TSX disabled

	1	2	3
AOM AV1 - Speed 0 Two-Pass - Bosphorus	0.13	0.13	0.13
4K (FPS)			
Standard Deviation	0%		
AOM AV1 - Speed 4 Two-Pass - Bosphorus	2.88	2.88	2.88
4K (FPS)			
Standard Deviation	0.4%		
AOM AV1 - Speed 6 Realtime - Bosphorus	4.03	4.11	4.09
4K (FPS)			
Normalized	98.05%	100%	99.51%
Standard Deviation	1.7%		
AOM AV1 - Speed 6 Two-Pass - Bosphorus	4.89	4.95	4.92
4K (FPS)			
Normalized	98.79%	100%	99.39%
Standard Deviation	0.6%		

AOM AV1 - Speed 8 Realtime - Bosphorus	16.15	16.21	16.18
4K (FPS)			
Normalized	99.63%	100%	99.81%
Standard Deviation		0.1%	
AOM AV1 - Speed 9 Realtime - Bosphorus	21.83	21.86	21.83
4K (FPS)			
Normalized	99.86%	100%	99.86%
Standard Deviation		0.2%	
AOM AV1 - Speed 10 Realtime - Bosphorus	24.32	24.51	24.62
4K (FPS)			
Normalized	98.78%	99.55%	100%
Standard Deviation		0.5%	
AOM AV1 - Speed 0 Two-Pass - Bosphorus	0.28	0.28	0.28
1080p (FPS)			
Standard Deviation		0%	
AOM AV1 - Speed 4 Two-Pass - Bosphorus	4.59	4.60	4.58
1080p (FPS)			
Normalized	99.78%	100%	99.57%
Standard Deviation		0.3%	
AOM AV1 - Speed 6 Realtime - Bosphorus	4.53	4.50	4.49
1080p (FPS)			
Normalized	100%	99.34%	99.12%
Standard Deviation		0.3%	
AOM AV1 - Speed 6 Two-Pass - Bosphorus	9.72	9.72	9.69
1080p (FPS)			
Normalized	100%	100%	99.69%
Standard Deviation		0.3%	
AOM AV1 - Speed 8 Realtime - Bosphorus	39.83	39.54	39.6
1080p (FPS)			
Normalized	100%	99.27%	99.42%
Standard Deviation		0.4%	
AOM AV1 - Speed 9 Realtime - Bosphorus	48.31	48.34	48.23
1080p (FPS)			
Normalized	99.94%	100%	99.77%
Standard Deviation		0.3%	
AOM AV1 - Speed 10 Realtime - Bosphorus	52.96	52.81	52.27
1080p (FPS)			
Normalized	100%	99.72%	98.7%
Standard Deviation		0.5%	
Kvazaar - Bosphorus 4K - Slow (FPS)	9.04	9.12	9.09
Normalized	99.12%	100%	99.67%
Standard Deviation		0.2%	
Kvazaar - Bosphorus 4K - Medium (FPS)	9.26	9.28	9.28
Normalized	99.78%	100%	100%
Standard Deviation		0.2%	
Kvazaar - Bosphorus 1080p - Slow (FPS)	18.06	17.97	18.05
Normalized	100%	99.5%	99.94%
Standard Deviation		0.2%	
Kvazaar - Bosphorus 1080p - Medium (FPS)	18.65	18.59	18.62
Normalized	100%	99.68%	99.84%
Standard Deviation		1.3%	
Kvazaar - Bosphorus 4K - Very Fast (FPS)	16.52	16.38	16.33
Normalized	100%	99.15%	98.85%
Standard Deviation		1%	

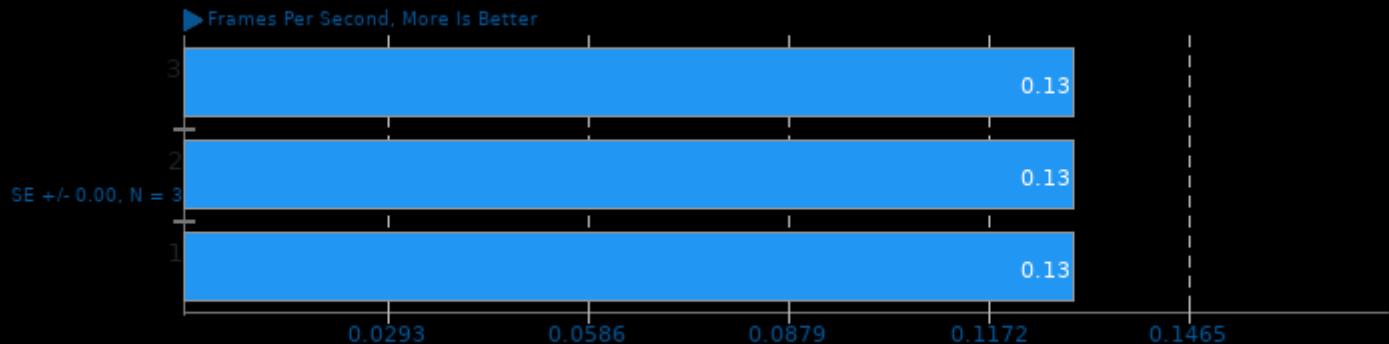
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	30.84	30.65	30.44
Normalized	100%	99.38%	98.7%
Standard Deviation		0.9%	
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	32.43	32.56	32.68
Normalized	99.24%	99.63%	100%
Standard Deviation		0.6%	
Kvazaar - Bosphorus 1080p - Ultra Fast	59.89	59.06	58.84
Normalized	100%	98.61%	98.25%
Standard Deviation		0.4%	
NAS Parallel Benchmarks - BT.C (Mop/s)	42538	43576	43503
Normalized	97.62%	100%	99.83%
Standard Deviation		0.1%	
NAS Parallel Benchmarks - CG.C (Mop/s)	10799	11608	11584
Normalized	93.04%	100%	99.8%
Standard Deviation		0.2%	
NAS Parallel Benchmarks - EP.C (Mop/s)	2170	2286	2237
Normalized	94.92%	100%	97.87%
Standard Deviation		3.7%	
NAS Parallel Benchmarks - EP.D (Mop/s)	2361	2332	2346
Normalized	100%	98.79%	99.38%
Standard Deviation		1.5%	
NAS Parallel Benchmarks - FT.C (Mop/s)	21860	22023	21991
Normalized	99.26%	100%	99.85%
Standard Deviation		0.5%	
NAS Parallel Benchmarks - IS.D (Mop/s)	1075	1079	1078
Normalized	99.66%	100%	99.94%
Standard Deviation		0.2%	
NAS Parallel Benchmarks - LU.C (Mop/s)	44484	45032	45146
Normalized	98.54%	99.75%	100%
Standard Deviation		0.4%	
NAS Parallel Benchmarks - MG.C (Mop/s)	17265	17915	17904
Normalized	96.37%	100%	99.94%
Standard Deviation		0%	
NAS Parallel Benchmarks - SP.B (Mop/s)	11813	11978	11878
Normalized	98.62%	100%	99.16%
Standard Deviation		0.3%	
NAS Parallel Benchmarks - SP.C (Mop/s)	9101	9400	9357
Normalized	96.82%	100%	99.54%
Standard Deviation		0.1%	
Nginx - Long Connection - 100 (Reqs/sec)	215968	213978	220569
Normalized	97.91%	97.01%	100%
Standard Deviation		1.9%	
Nginx - Long Connection - 500 (Reqs/sec)	235569	236699	238843
Normalized	98.63%	99.1%	100%
Standard Deviation		1.1%	
Nginx - Long Connection - 1000 (Reqs/sec)	235739	234100	233211
Normalized	100%	99.3%	98.93%
Standard Deviation		0.9%	
Nginx - Short Connection - 100 (Reqs/sec)	152889	152357	152985
Normalized	99.94%	99.59%	100%
Standard Deviation		0.4%	
Nginx - Short Connection - 500 (Reqs/sec)	184431	184124	184320
Normalized	100%	99.83%	99.94%
Standard Deviation		0.2%	
Nginx - Short Connection - 1000 (Reqs/sec)	184078	183750	183567

	Normalized	100%	99.82%	99.72%
	Standard Deviation		0.3%	
OpenCV - Features 2D (ms)	165500	169299	187147	
	Normalized	100%	97.76%	88.43%
	Standard Deviation		4.9%	
OpenCV - Object Detection (ms)	154469	154144	148342	
	Normalized	96.03%	96.24%	100%
	Standard Deviation		2.4%	
OpenCV - DNN - D.N.N (ms)	39851	34204	35713	
	Normalized	85.83%	100%	95.77%
	Standard Deviation		5.2%	
OpenSSL (sign/s)	5195	5188	5205	
	Normalized	99.82%	99.69%	100%
	Standard Deviation		0.8%	
OpenSSL (verify/s)	339576	339871	339636	
	Normalized	99.91%	100%	99.93%
	Standard Deviation		0.1%	
Redis Memtier / Redis Benchmark - L.a.L.I (Req/s/sec)	1514466	1510208	1504896	
	Normalized	100%	99.72%	99.37%
	Standard Deviation		0.2%	
Redis Memtier / Redis Benchmark - L.a.L.I (Req/s/sec)	1466507	1449465	1463272	
	Normalized	100%	98.84%	99.78%
	Standard Deviation		1.4%	
Redis Memtier / Redis Benchmark - GET (Operations/sec)	1153767	575950	569190	
	Normalized	100%	49.92%	49.33%
	Standard Deviation		2.4%	
Redis Memtier / Redis Benchmark - MIX (Operations/sec)	1054094	617806	611515	
	Normalized	100%	58.61%	58.01%
	Standard Deviation		1.4%	
Redis Memtier / Redis Benchmark - SET (Operations/sec)	758662	729671	712311	
	Normalized	100%	96.18%	93.89%
	Standard Deviation		1%	
Zstd Compression - 3 - Compression Speed (MB/s)	3268	3387	3410	
	Normalized	95.82%	99.31%	100%
	Standard Deviation		0.5%	
Zstd Compression - 3 - D.S (MB/s)	3052	3107	3108	
	Normalized	98.2%	99.95%	100%
	Standard Deviation		0.1%	
Zstd Compression - 8 - Compression Speed (MB/s)	551.9	555.2	568.7	
	Normalized	97.05%	97.63%	100%
	Standard Deviation		0.4%	
Zstd Compression - 8 - D.S (MB/s)	3085	3105	3111	
	Normalized	99.18%	99.83%	100%
	Standard Deviation		0%	
Zstd Compression - 19 - Compression Speed (MB/s)	53.2	56.2	56.2	
	Normalized	94.66%	100%	100%

	Standard Deviation	2.4%	
Zstd Compression - 19 - D.S (MB/s)	2676	2706	2718
Normalized	98.45%	99.56%	100%
Standard Deviation	0.7%		
Zstd Compression - 3, Long Mode -	120.5	119.3	117.5
Compression Speed (MB/s)			
Normalized	100%	99%	97.51%
Standard Deviation	1%		
Zstd Compression - 3, Long Mode - D.S	3281	3300	3314
Normalized	98.99%	99.58%	100%
Standard Deviation	0.6%		
Zstd Compression - 8, Long Mode -	135.1	146.6	153.1
Compression Speed (MB/s)			
Normalized	88.24%	95.75%	100%
Standard Deviation	2.3%		
Zstd Compression - 8, Long Mode - D.S	3244	3286	3303
Normalized	98.22%	99.49%	100%
Standard Deviation	0.7%		
Zstd Compression - 19, Long Mode -	38.7	38.8	30.5
Compression Speed (MB/s)			
Normalized	99.74%	100%	78.61%
Standard Deviation	0.1%		
Zstd Compression - 19, Long Mode - D.S	2698	2720	2733
(MB/s)			
Normalized	98.71%	99.53%	100%
Standard Deviation	0.6%		

AOM AV1 3.2

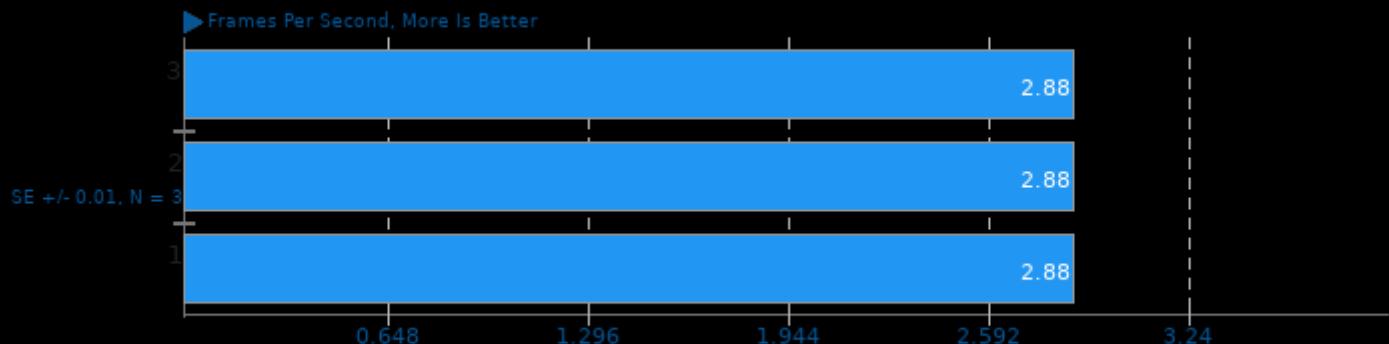
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K



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

AOM AV1 3.2

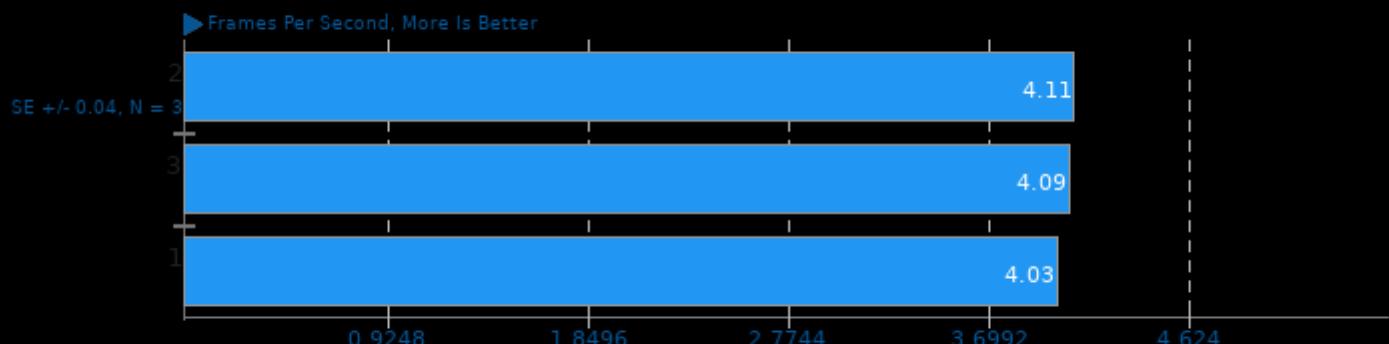
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K



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

AOM AV1 3.2

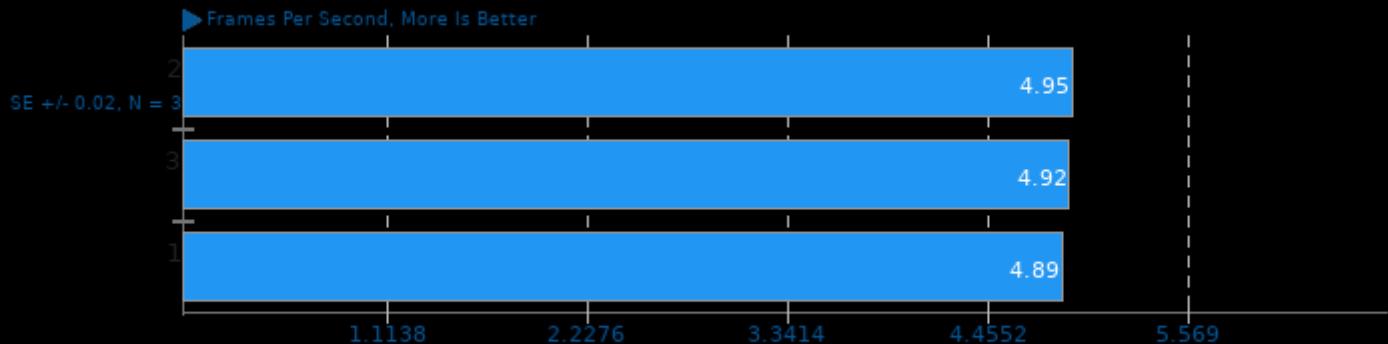
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.2

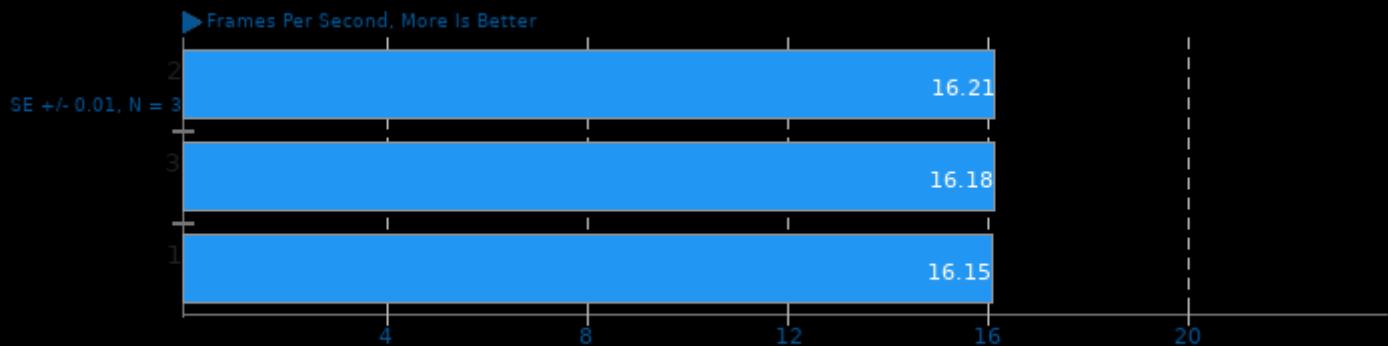
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K



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

AOM AV1 3.2

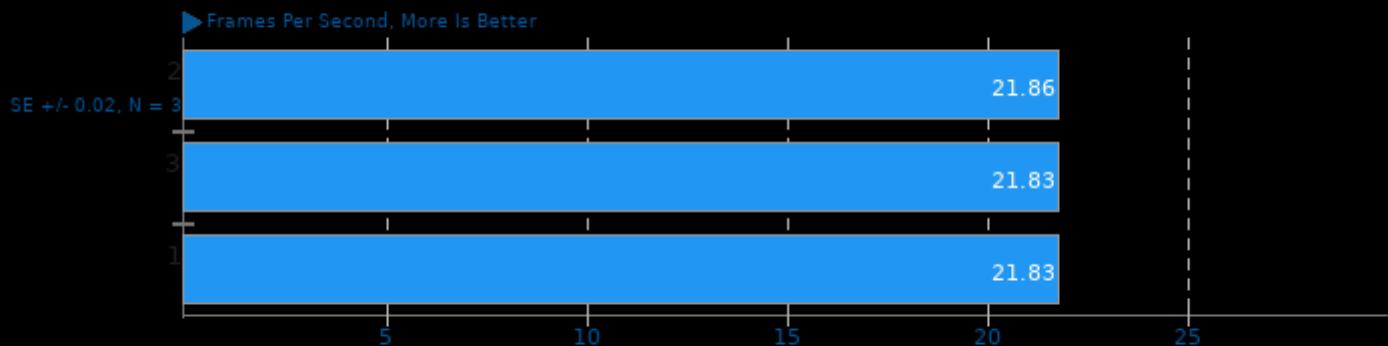
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.2

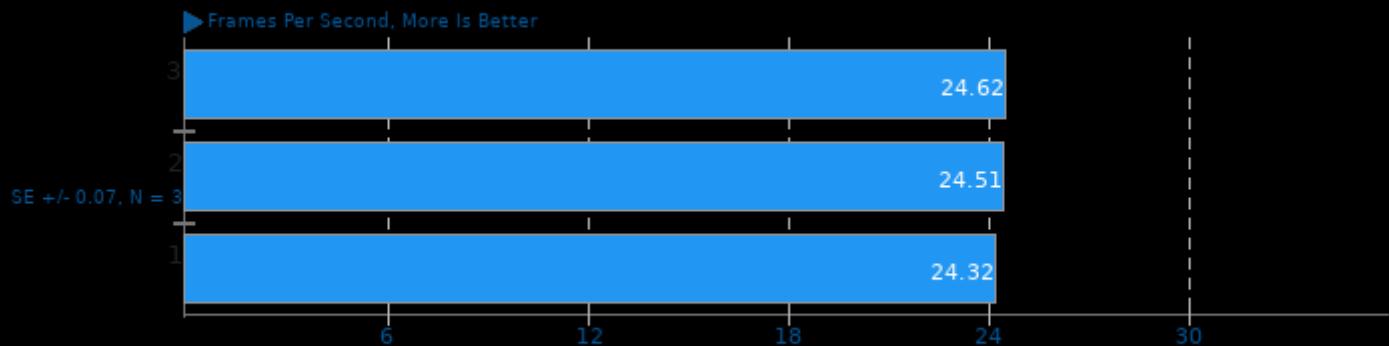
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.2

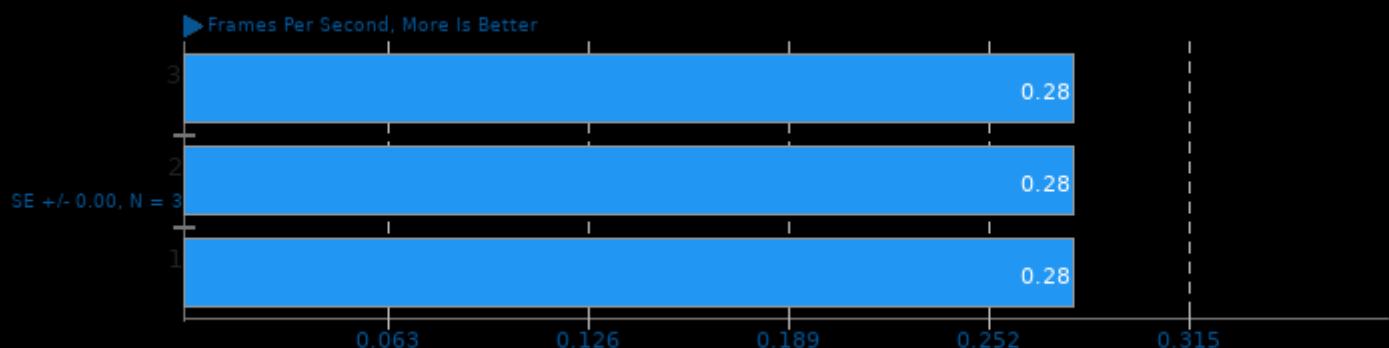
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.2

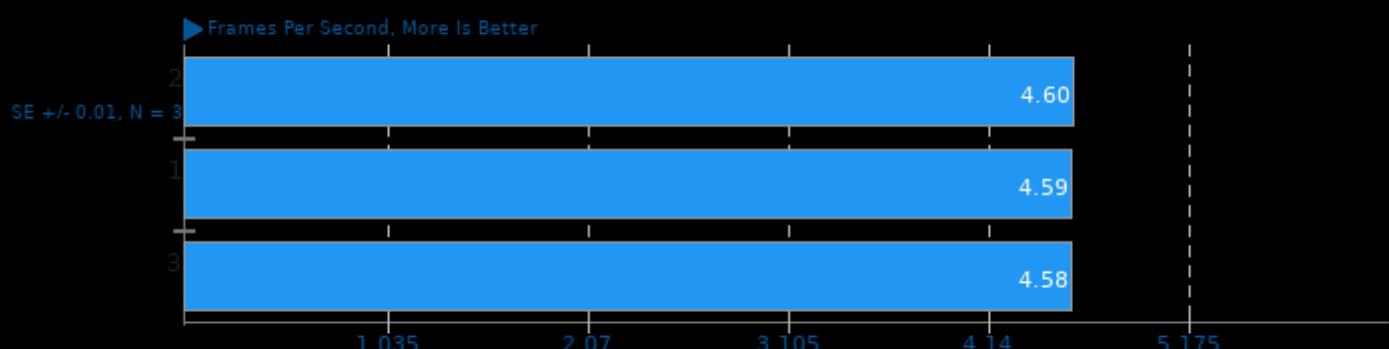
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p



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

AOM AV1 3.2

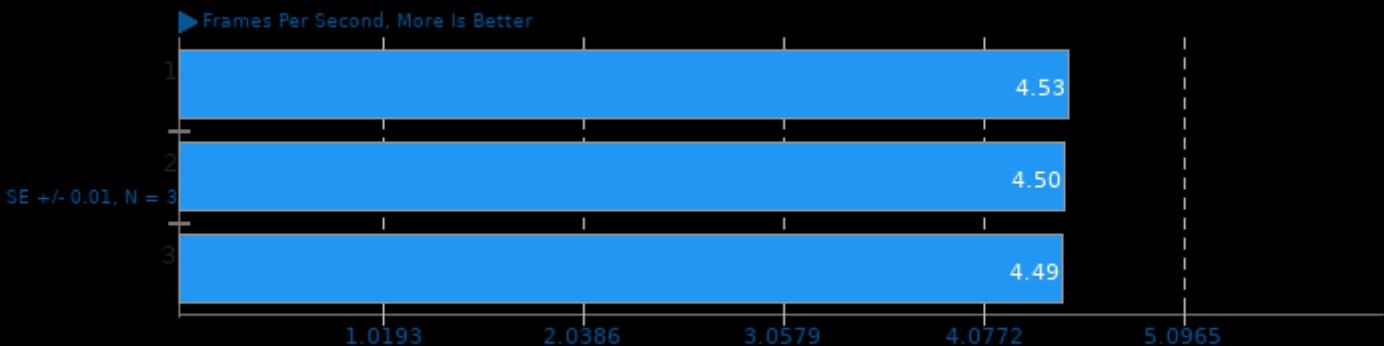
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p



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

AOM AV1 3.2

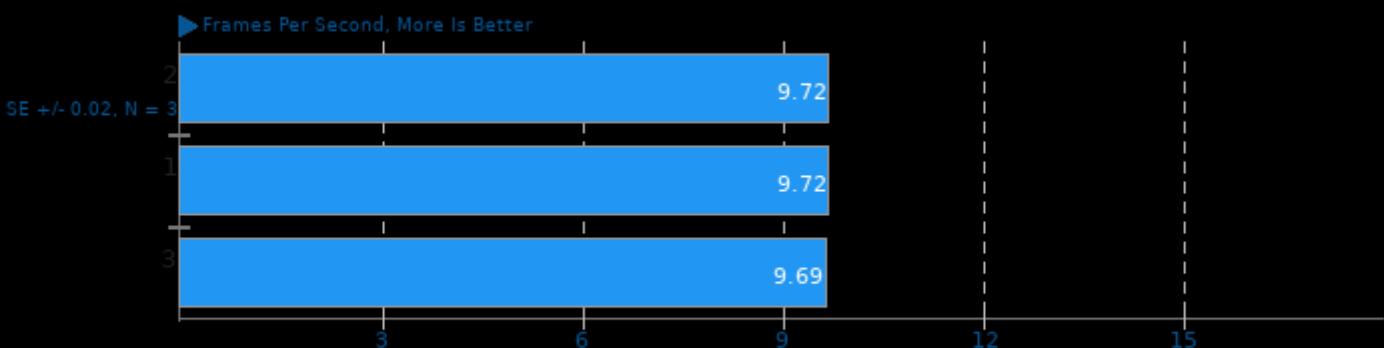
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p



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

AOM AV1 3.2

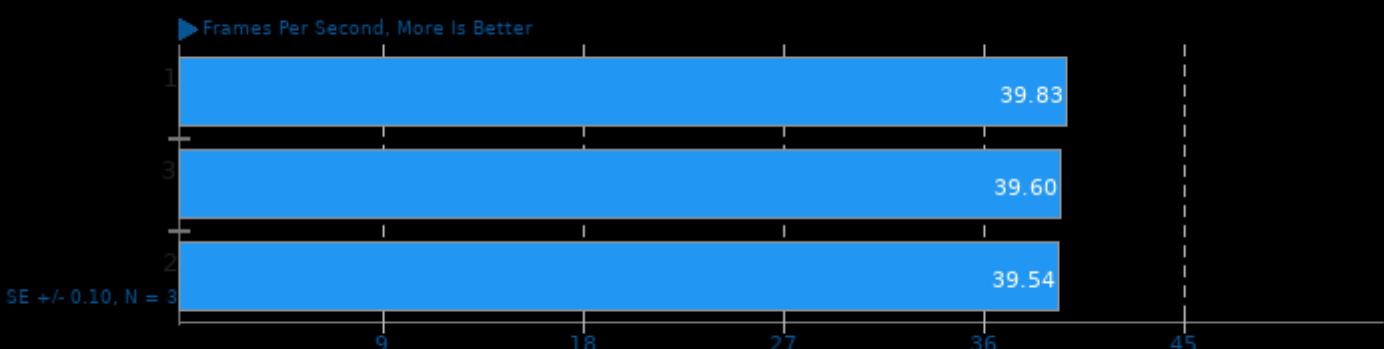
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p



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

AOM AV1 3.2

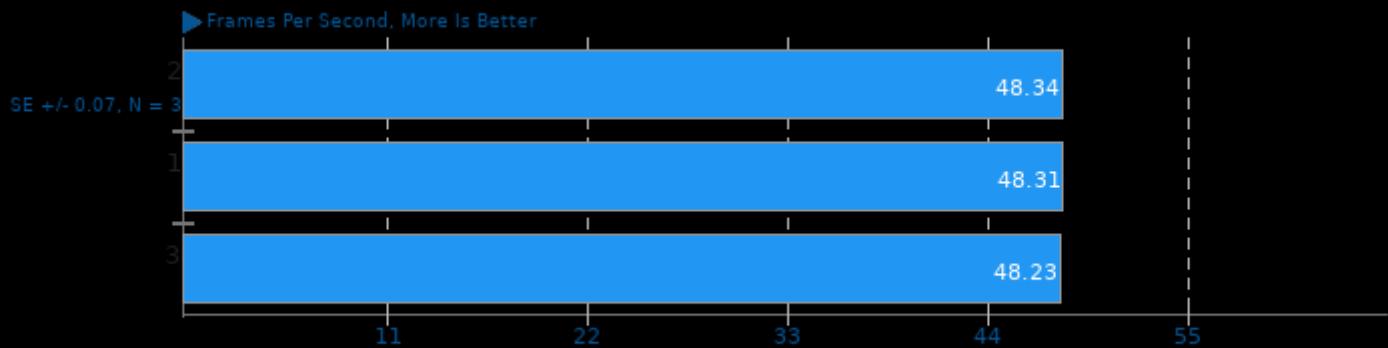
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p



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

AOM AV1 3.2

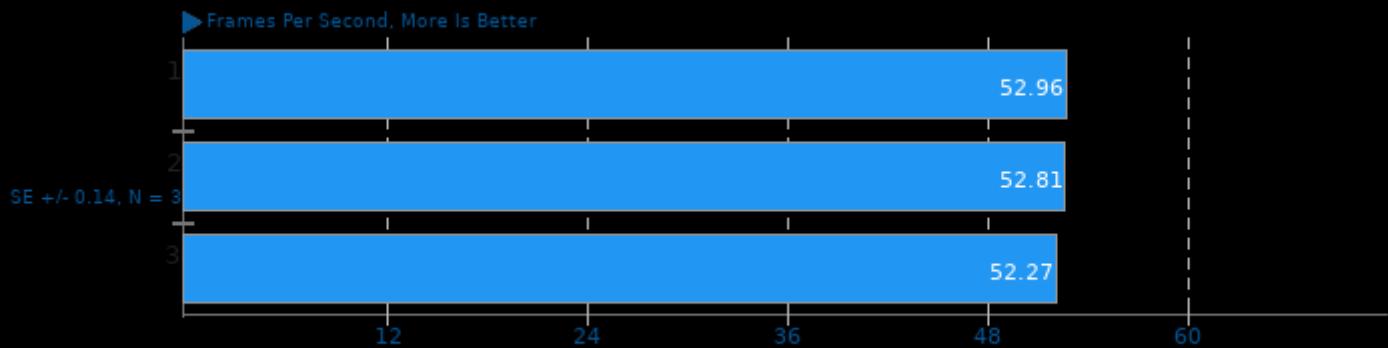
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p



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

AOM AV1 3.2

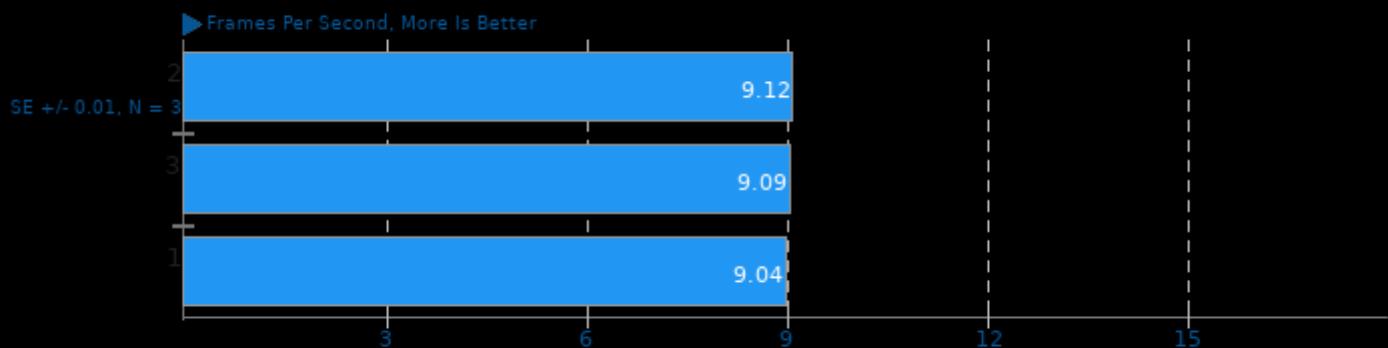
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 1080p



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

Kvazaar 2.1

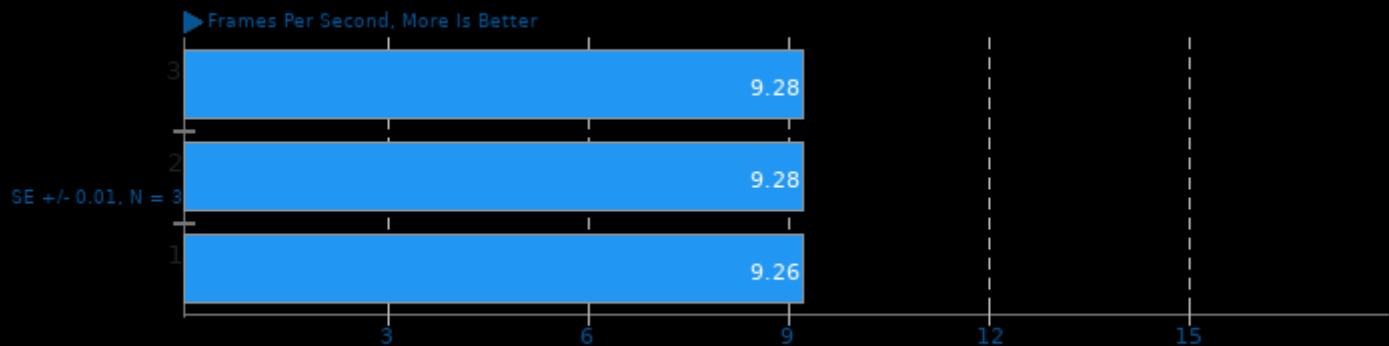
Video Input: Bosphorus 4K - Video Preset: Slow



1. (CC) gcc options: -pthread -ftracer -fvisibility=hidden -O2 -lpthread -lm -rt

Kvazaar 2.1

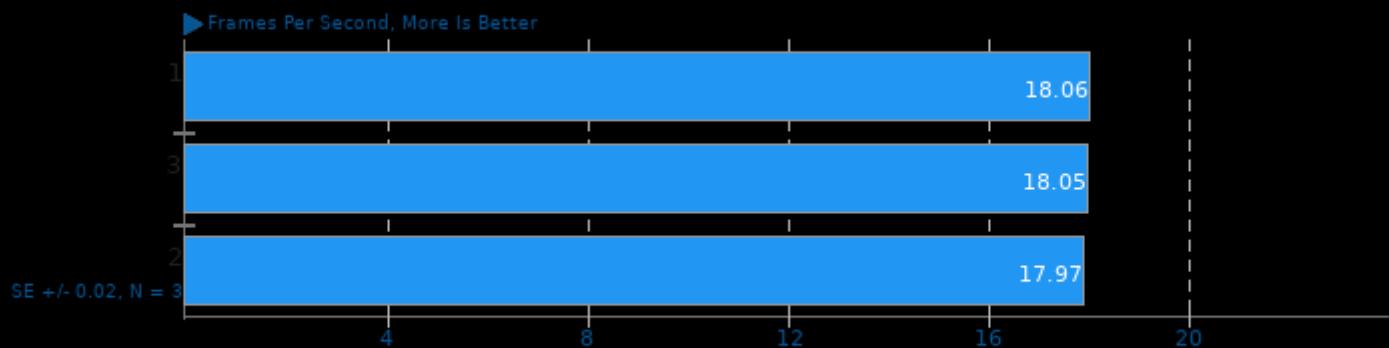
Video Input: Bosphorus 4K - Video Preset: Medium



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

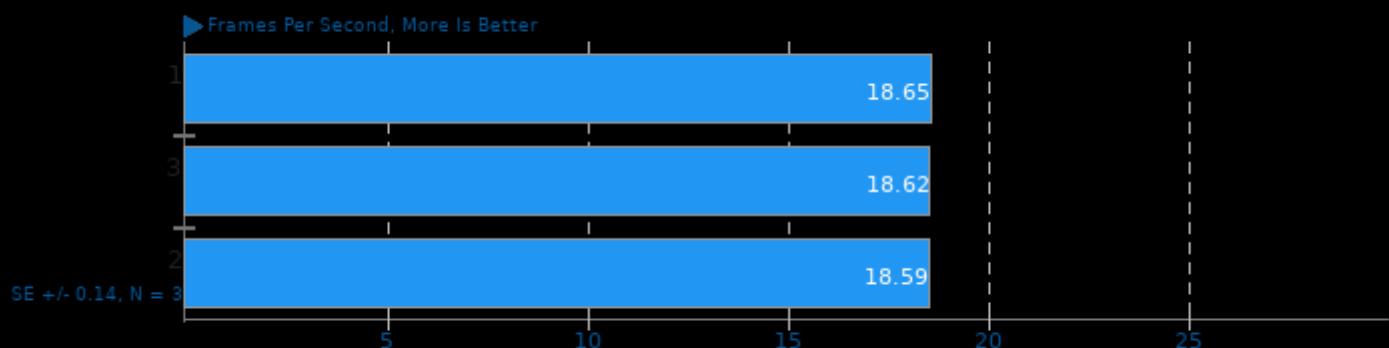
Video Input: Bosphorus 1080p - Video Preset: Slow



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

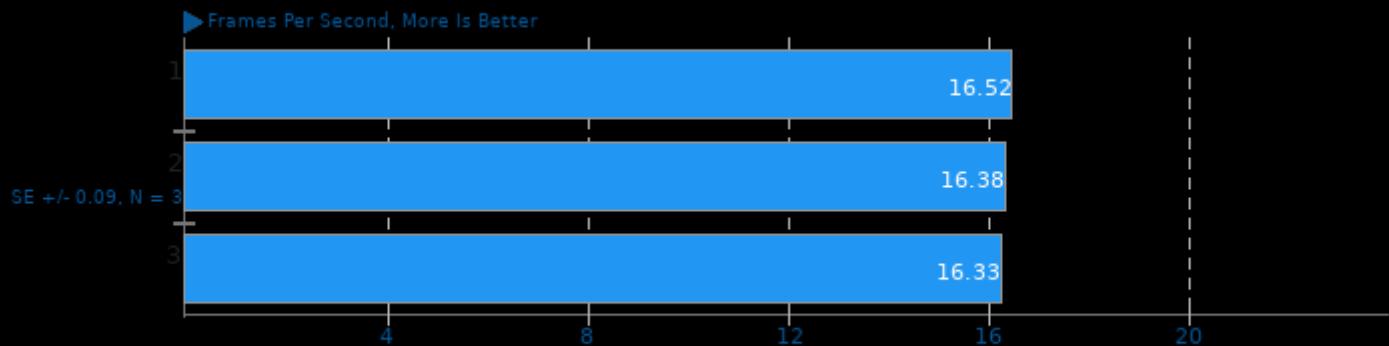
Video Input: Bosphorus 1080p - Video Preset: Medium



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

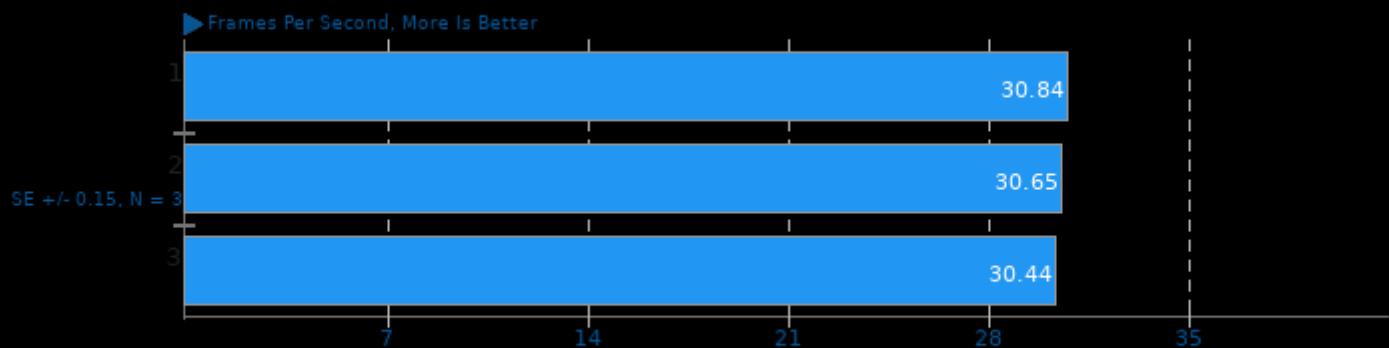
Video Input: Bosphorus 4K - Video Preset: Very Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

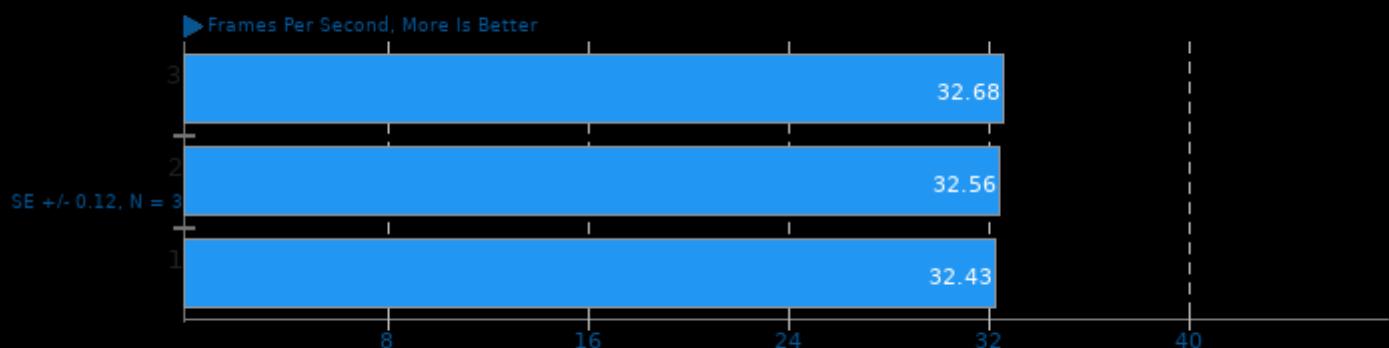
Video Input: Bosphorus 4K - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

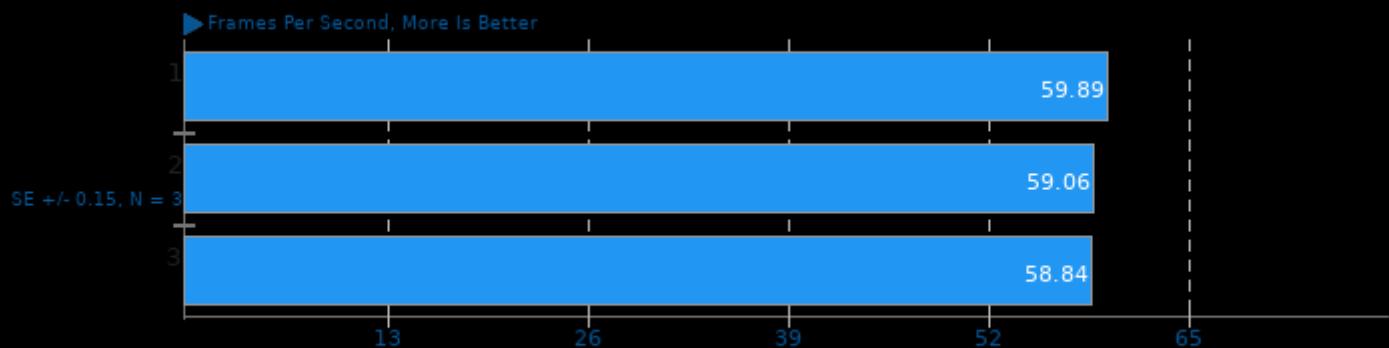
Video Input: Bosphorus 1080p - Video Preset: Very Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

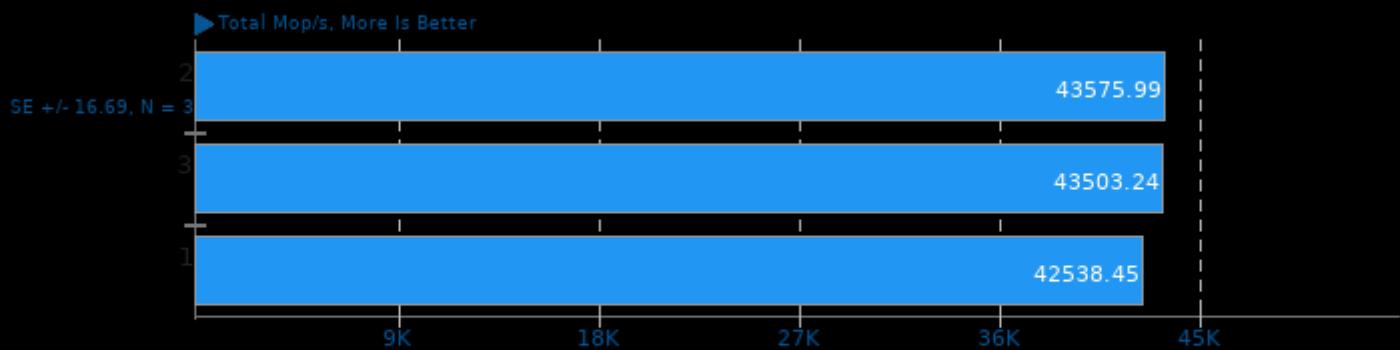
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -fno-tree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

NAS Parallel Benchmarks 3.4

Test / Class: BT.C

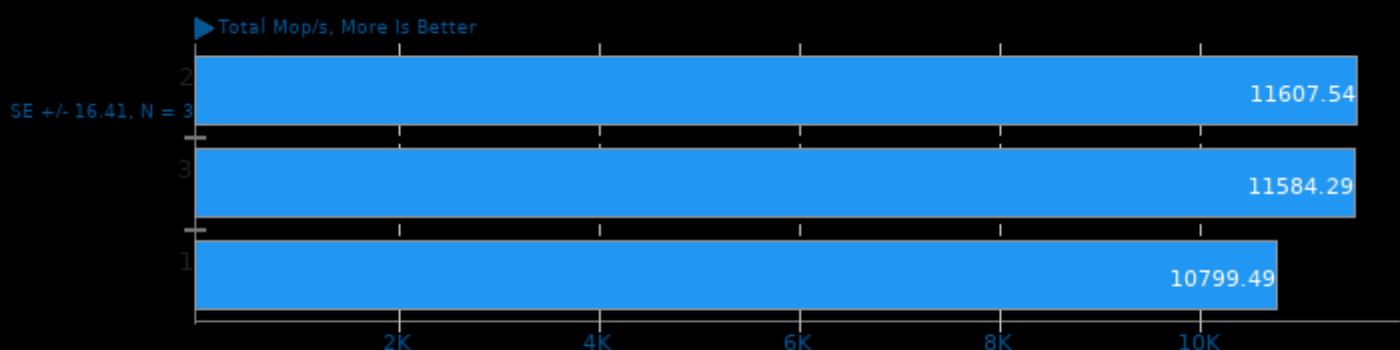


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent_core -levent_pthread.

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: CG.C

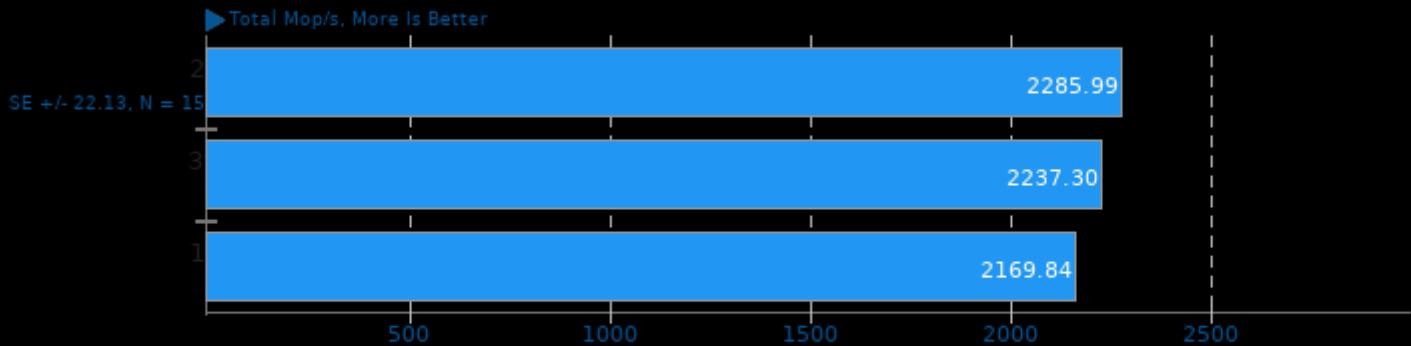


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent_core -levent_pthread.

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: EP.C

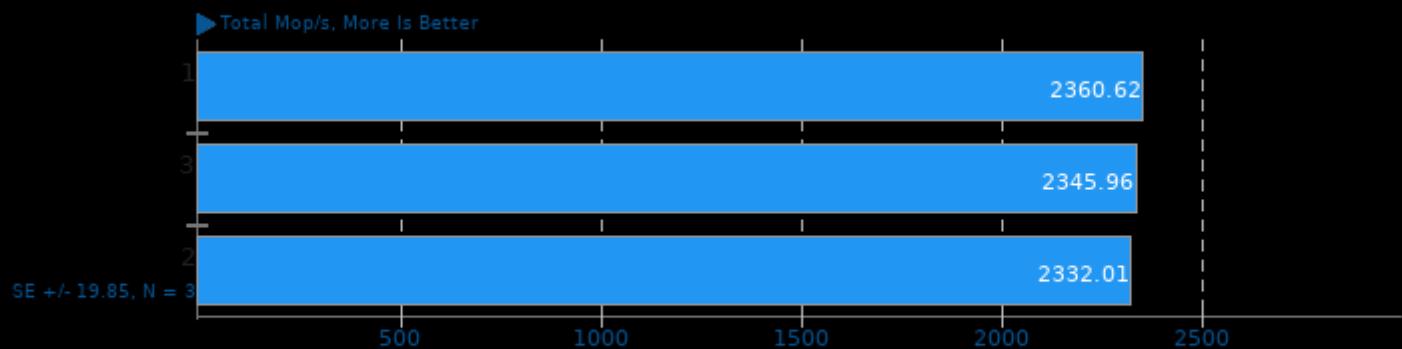


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent core -levent pthread

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: EP.D

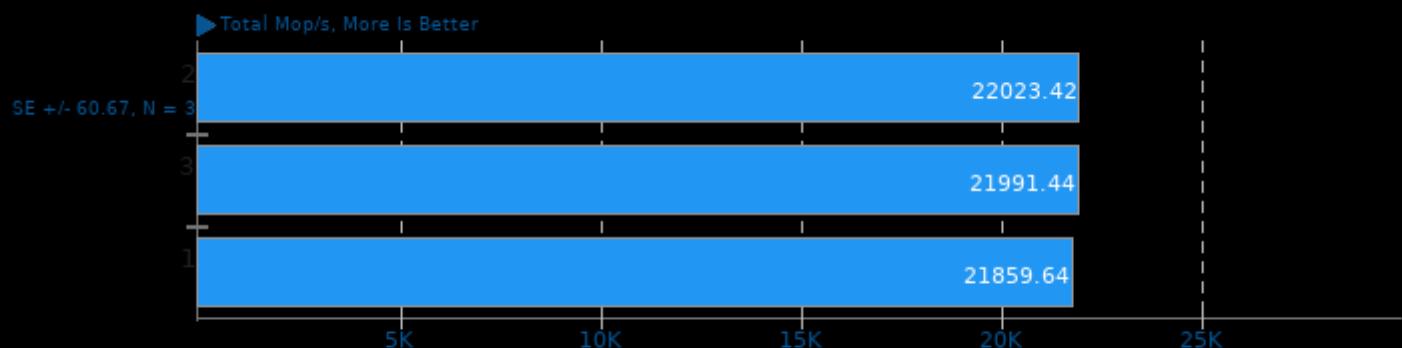


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent core -levent pthread

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: FT.C

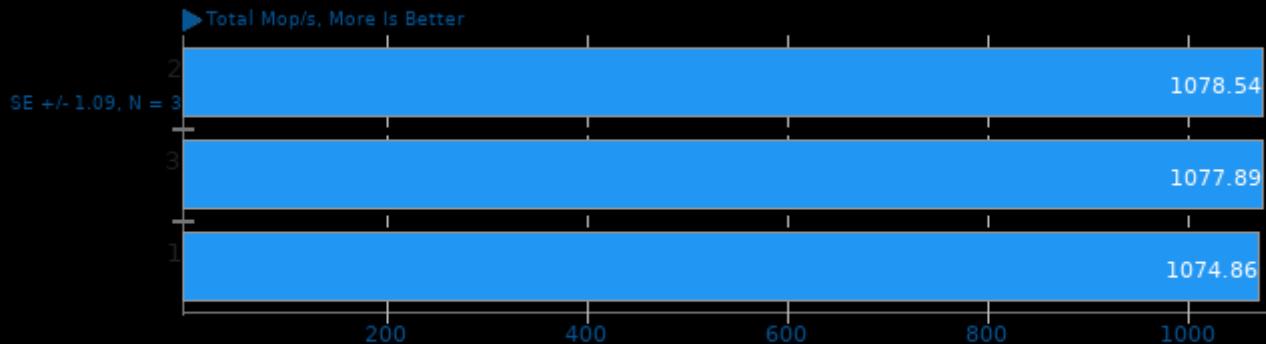


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent core -levent pthread

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: IS.D

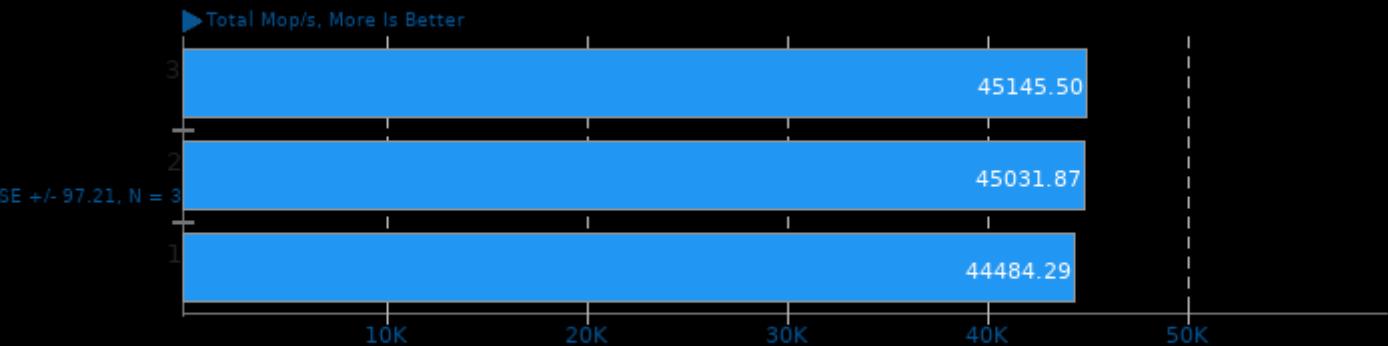


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -lld -levent core -levent pthread

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: LU.C

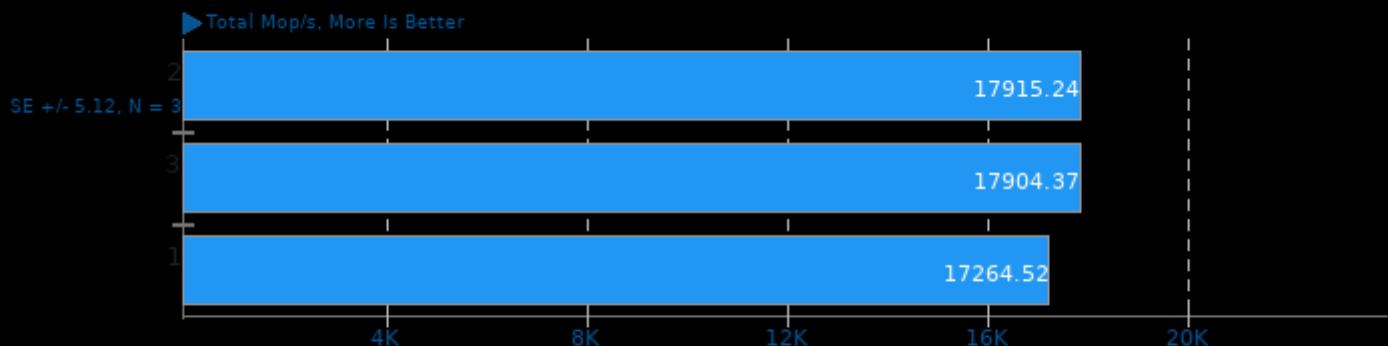


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -lld -levent core -levent pthread

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: MG.C

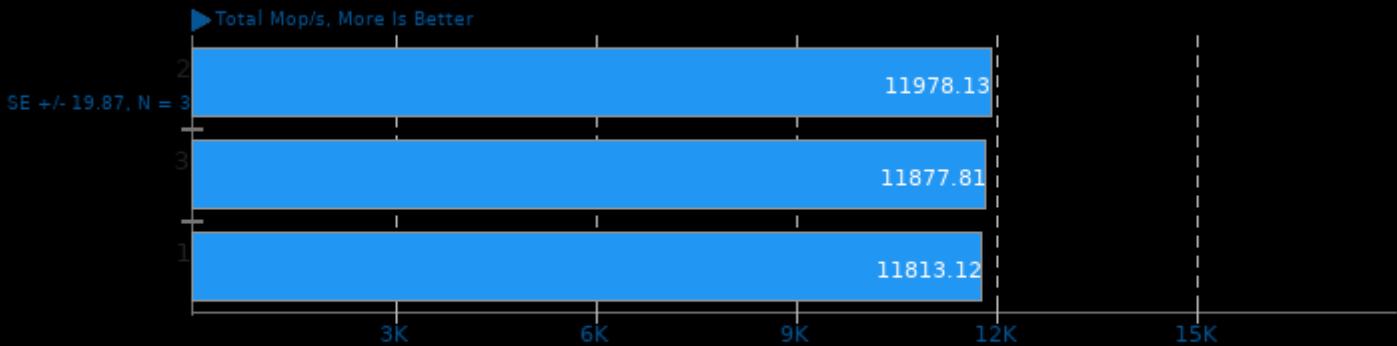


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -lld -levent core -levent pthread

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: SP.B

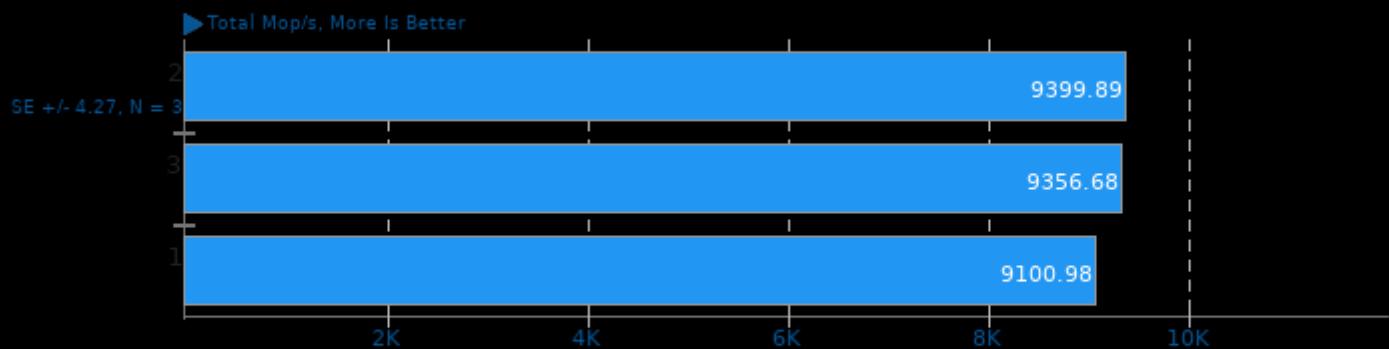


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent core -levent pthread

2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: SP.C

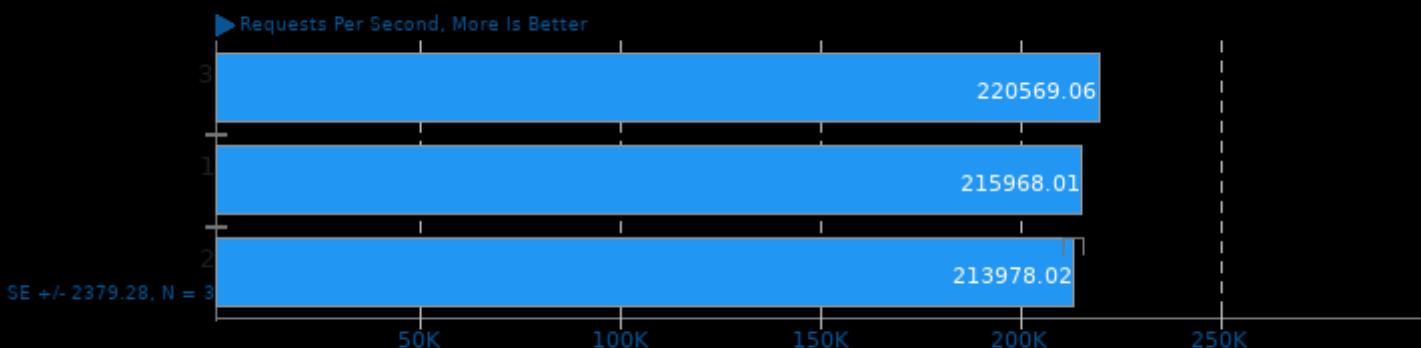


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent core -levent pthread

2. Open MPI 4.1.0

Nginx

Test: Long Connection - Connections: 100

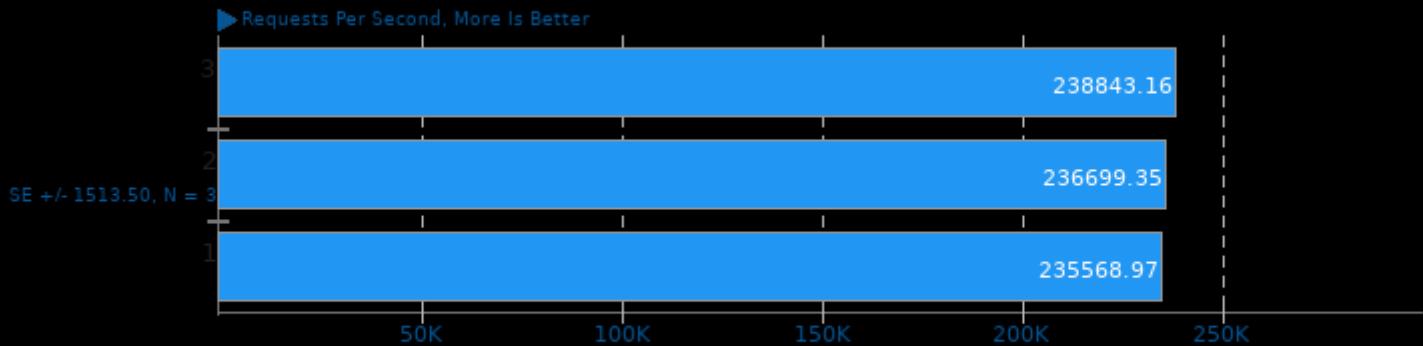


1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -pthread -ldl -std=c99 -O2

2. nginx version: nginx/1.18.0 (Ubuntu)

Nginx

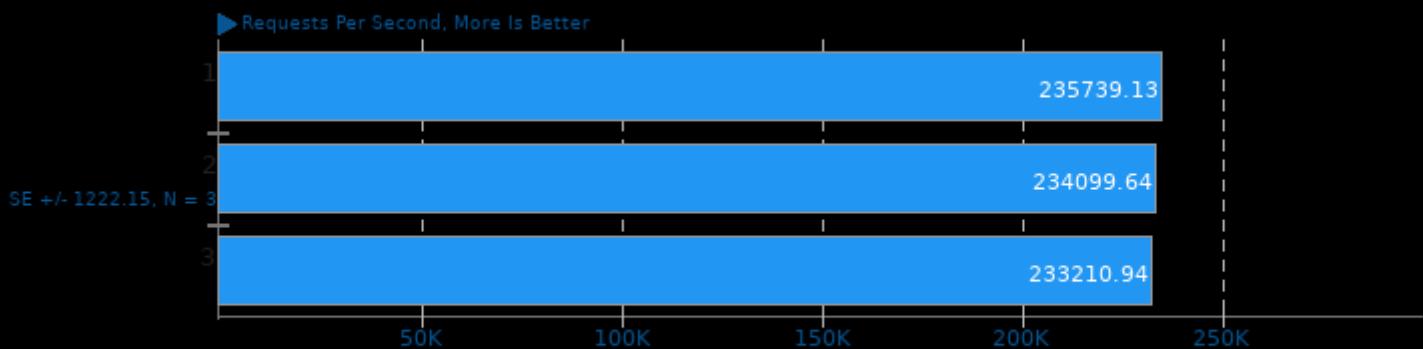
Test: Long Connection - Connections: 500



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2
2. nginx version: nginx/1.18.0 (Ubuntu)

Nginx

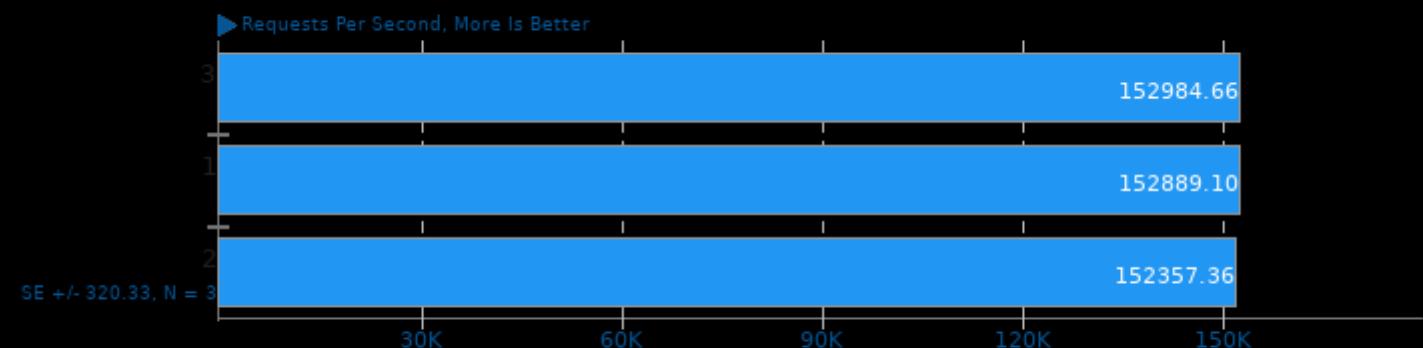
Test: Long Connection - Connections: 1000



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2
2. nginx version: nginx/1.18.0 (Ubuntu)

Nginx

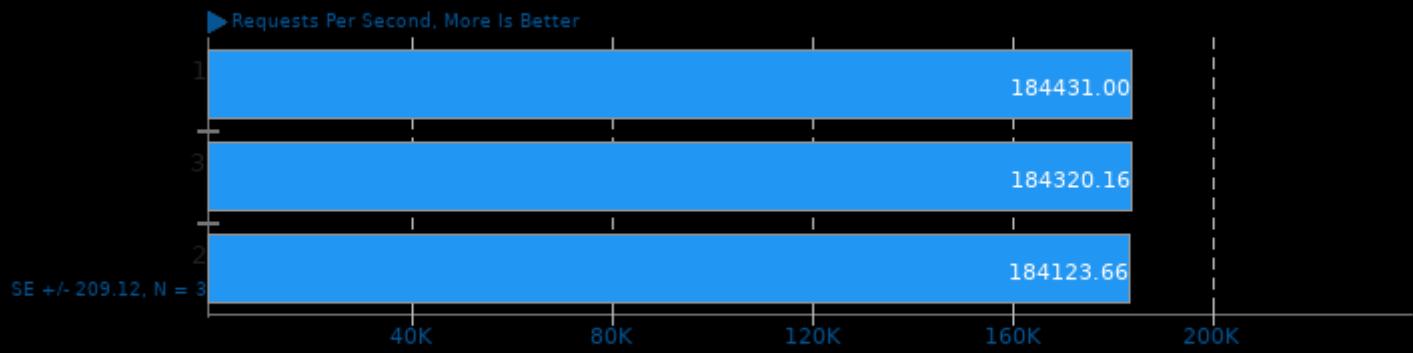
Test: Short Connection - Connections: 100



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2
2. nginx version: nginx/1.18.0 (Ubuntu)

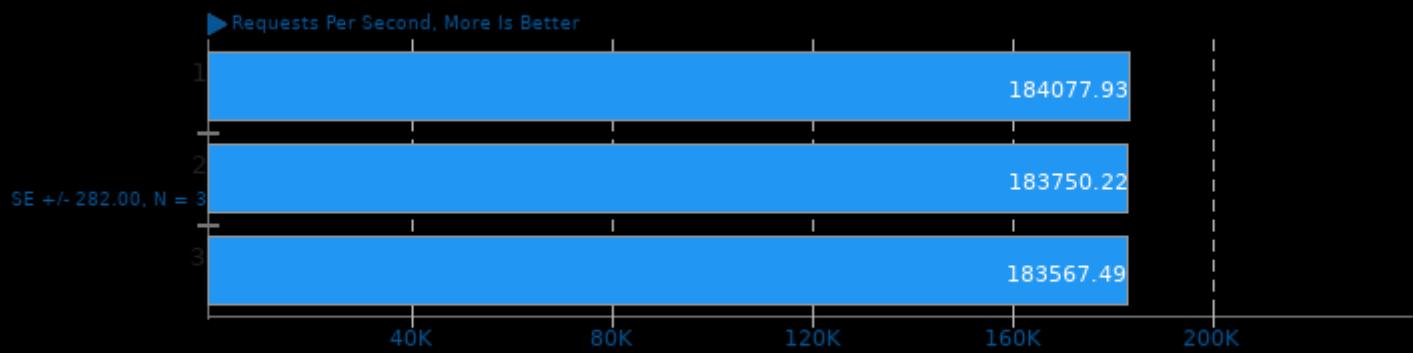
Nginx

Test: Short Connection - Connections: 500



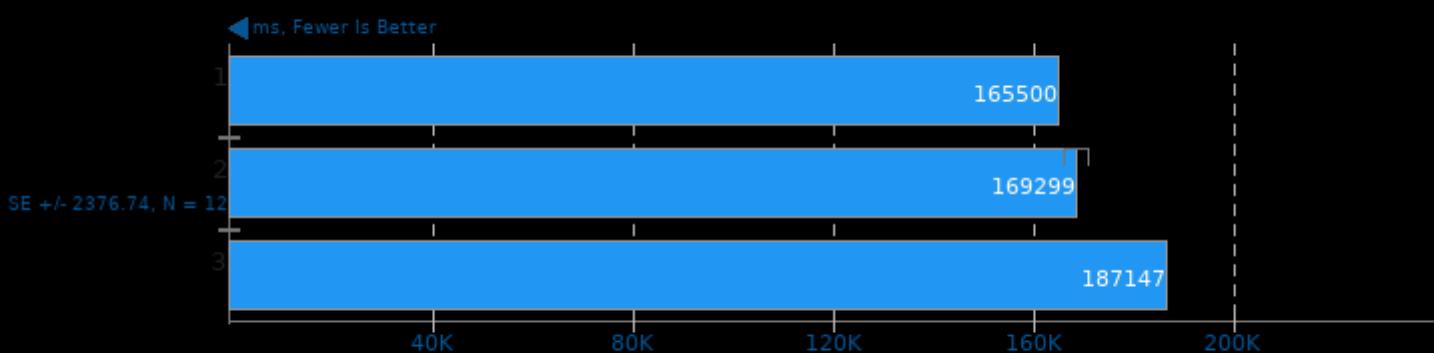
Nginx

Test: Short Connection - Connections: 1000



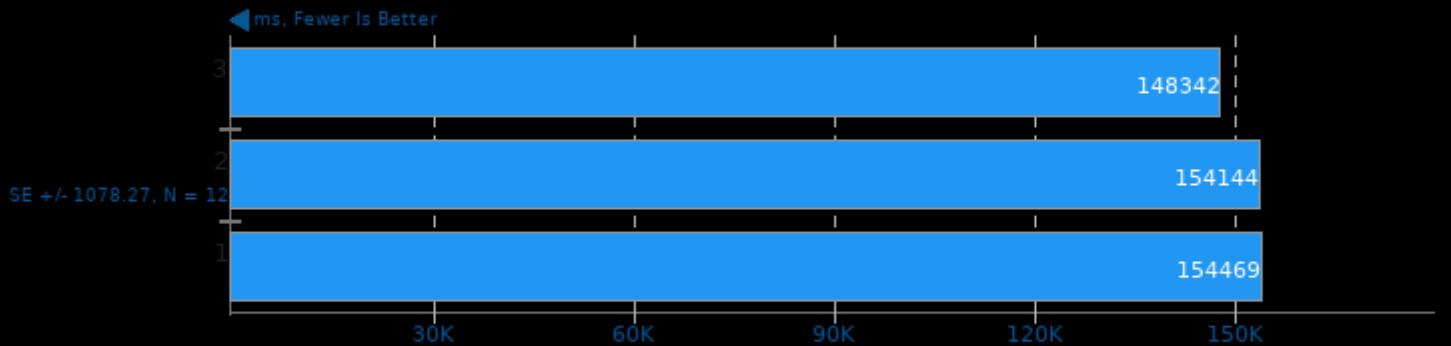
OpenCV 4.5.4

Test: Features 2D



OpenCV 4.5.4

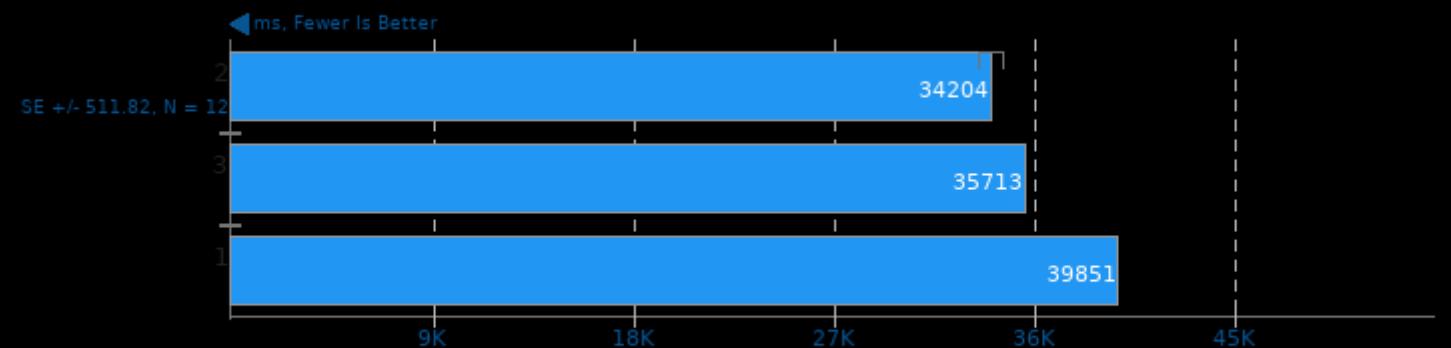
Test: Object Detection



1. (CXX) g++ options: -fsigned-char -pthread -fomit-frame-pointer -ffunction-sections -fdata-sections -msse -msse2 -msse3 -fvisibility=hidden -O3 -ldl -lr

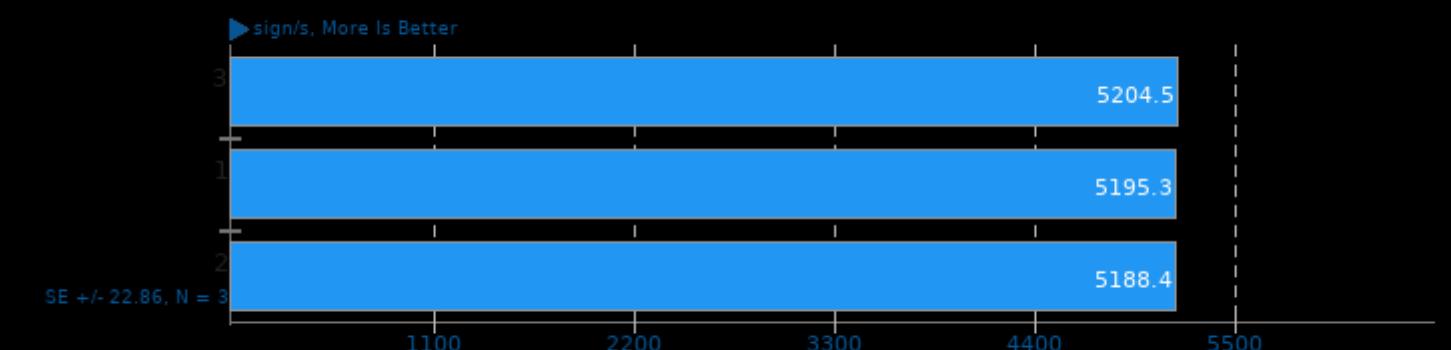
OpenCV 4.5.4

Test: DNN - Deep Neural Network



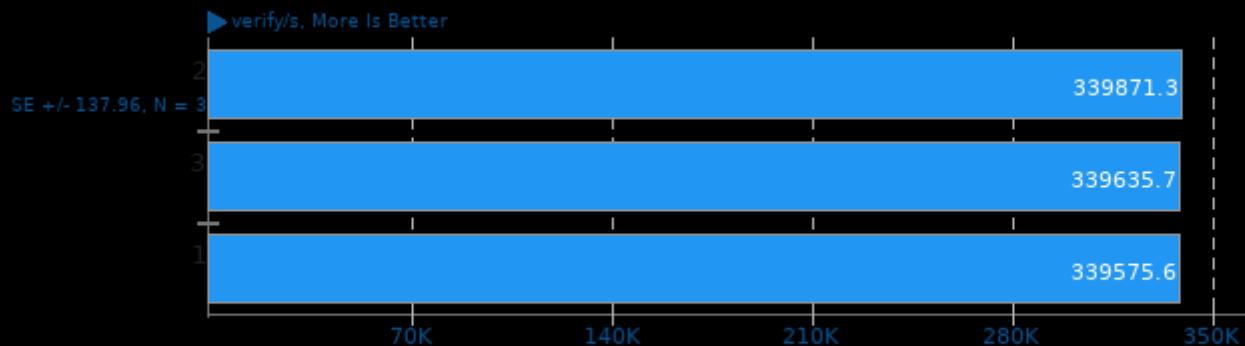
1. (CXX) g++ options: -fsigned-char -pthread -fomit-frame-pointer -ffunction-sections -fdata-sections -msse -msse2 -msse3 -fvisibility=hidden -O3 -ldl -lr

OpenSSL



1. OpenSSL 1.1.1j 16 Feb 2021

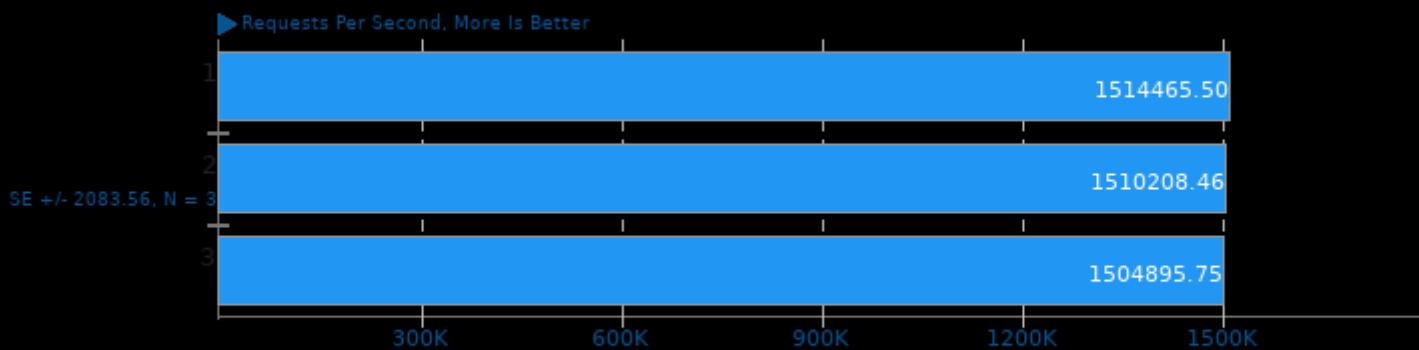
OpenSSL



1. OpenSSL 1.1.1j 16 Feb 2021

Redis Memtier / Redis Benchmark

Test: LPUSH and LPOP: lpop

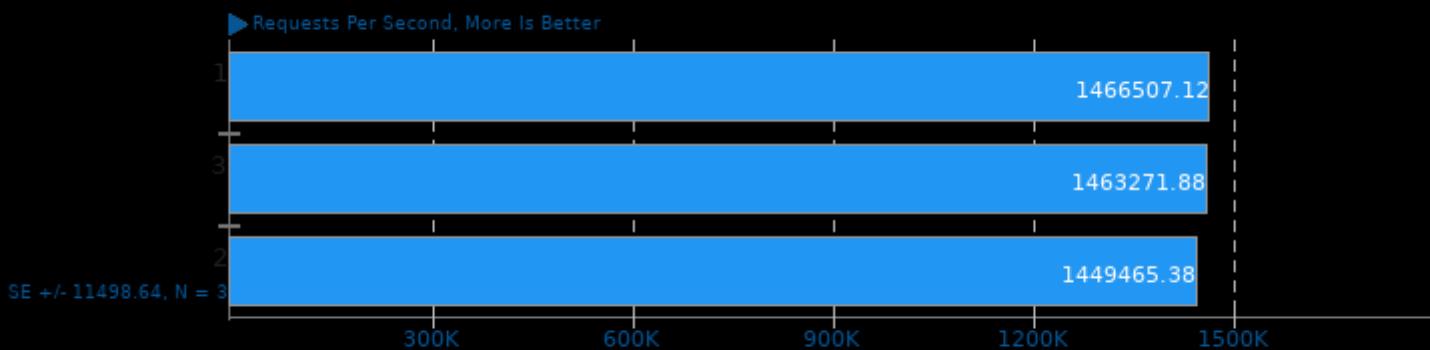


1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcres

2. Redis server v=6.0.11 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=83fe9b039c768864

Redis Memtier / Redis Benchmark

Test: LPUSH and LPOP: lpush

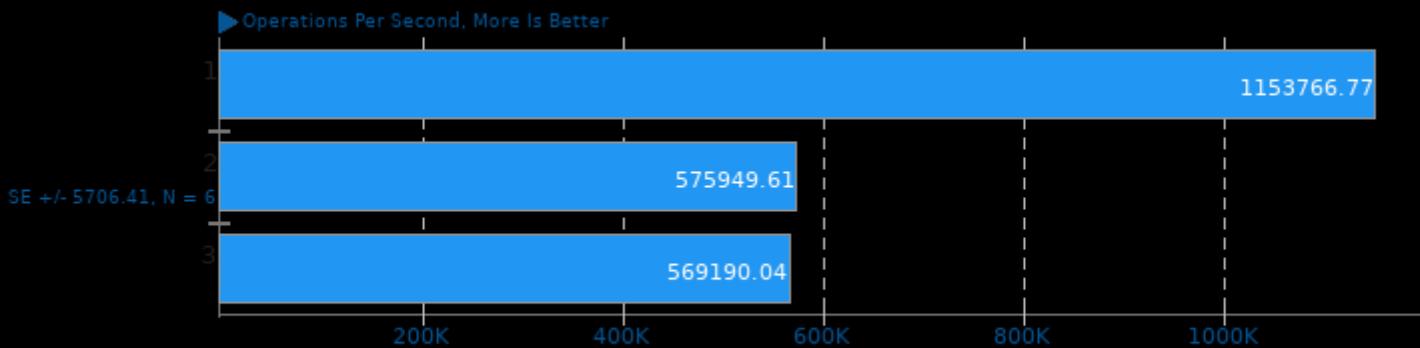


1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcres

2. Redis server v=6.0.11 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=83fe9b039c768864

Redis Memtier / Redis Benchmark

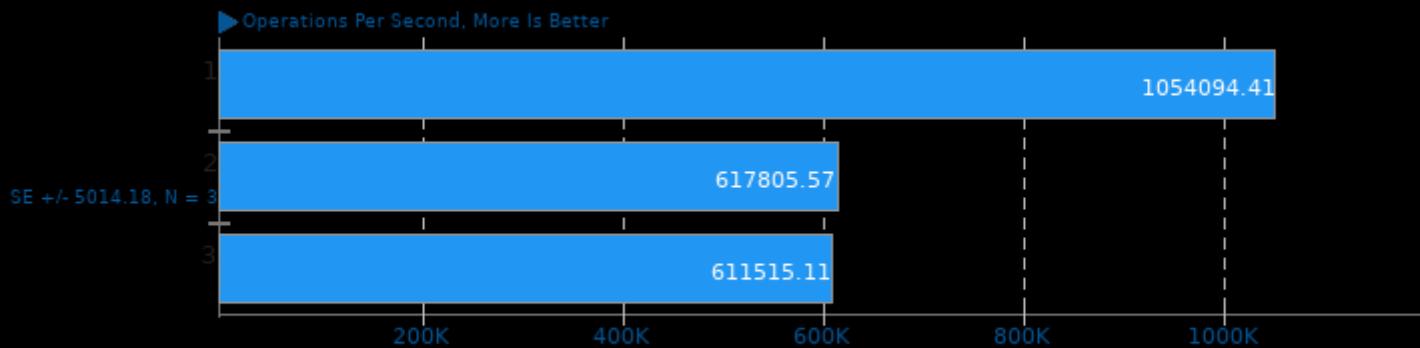
Test: GET



1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcres
 2. Redis server v=6.0.11 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=83fe9b039c768864

Redis Memtier / Redis Benchmark

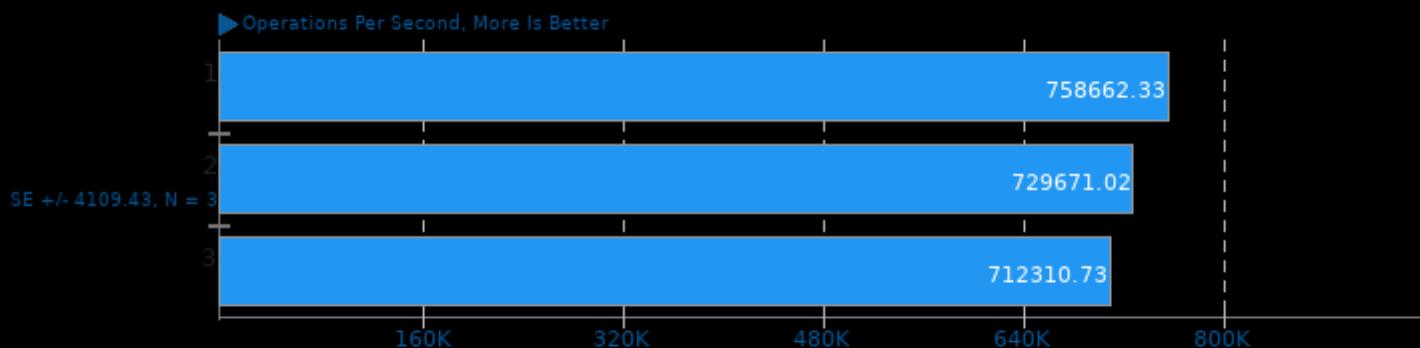
Test: MIX



1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcres
 2. Redis server v=6.0.11 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=83fe9b039c768864

Redis Memtier / Redis Benchmark

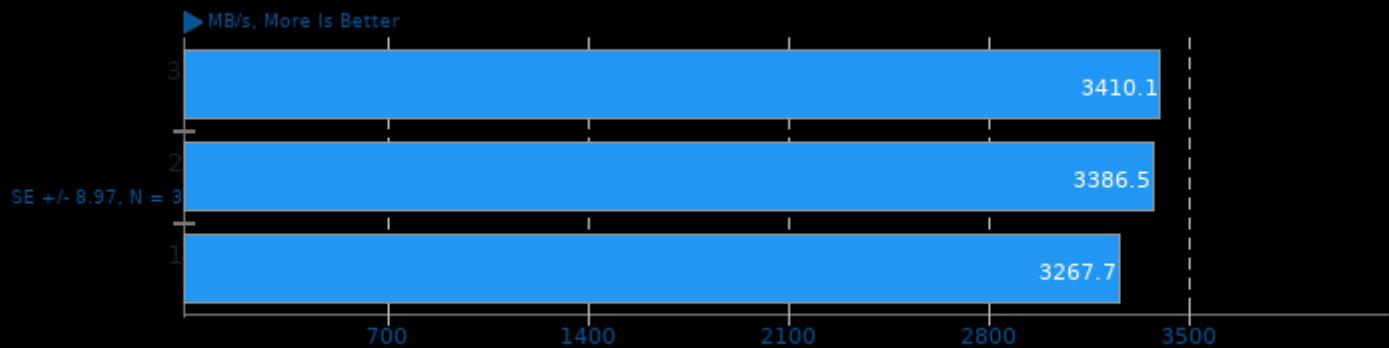
Test: SET



1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcres
 2. Redis server v=6.0.11 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=83fe9b039c768864

Zstd Compression

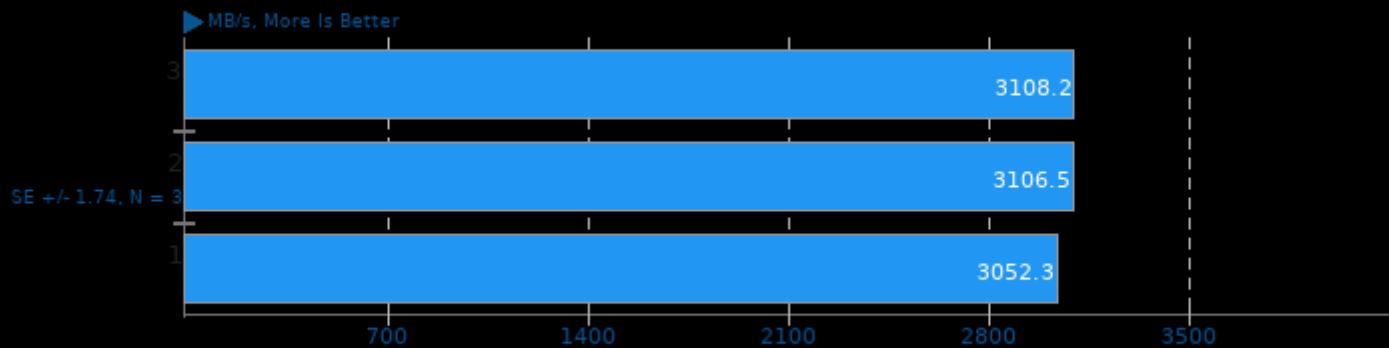
Compression Level: 3 - Compression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

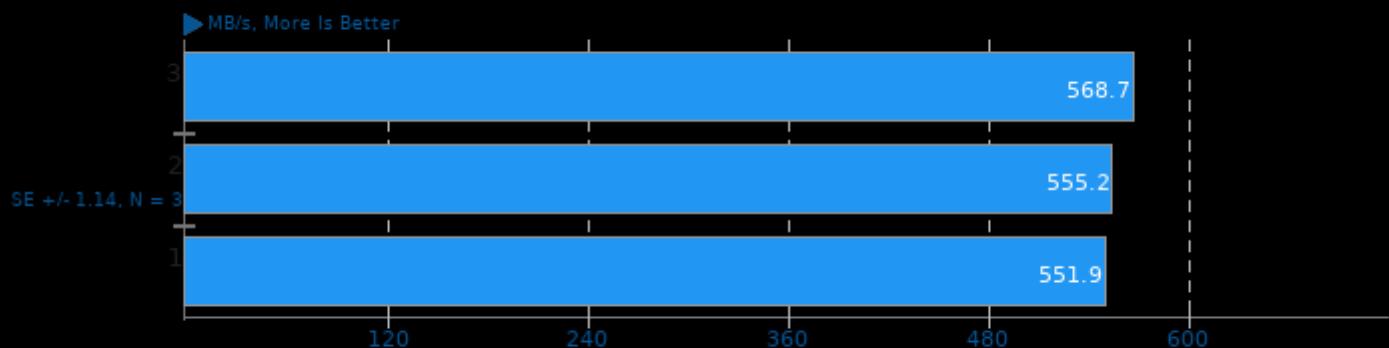
Compression Level: 3 - Decompression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

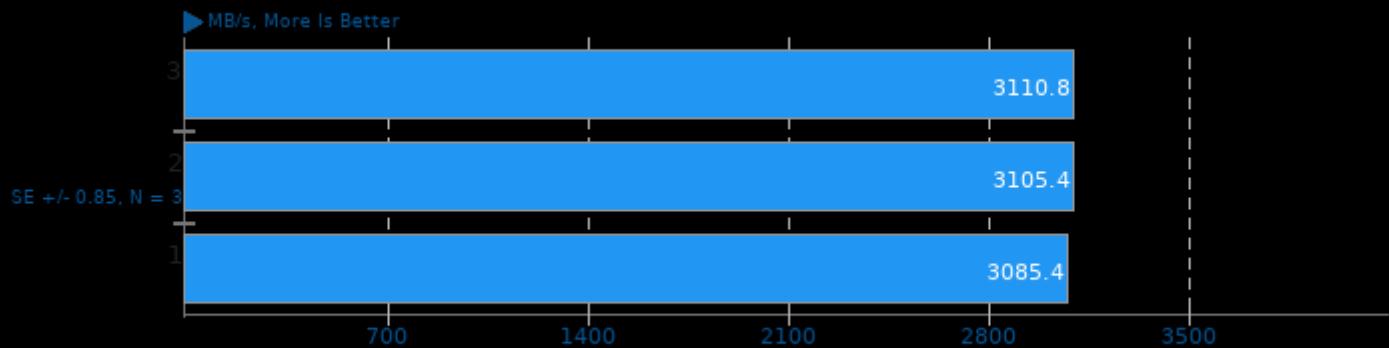
Compression Level: 8 - Compression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

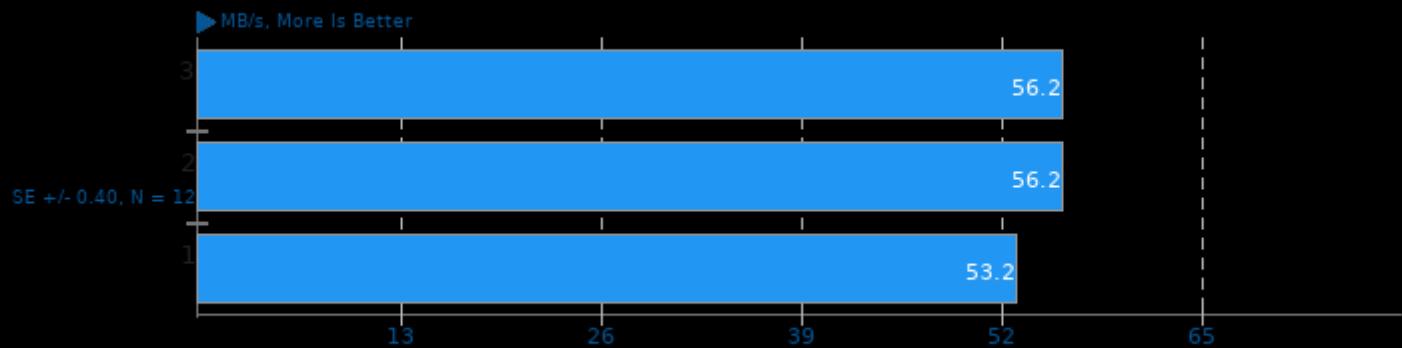
Compression Level: 8 - Decompression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

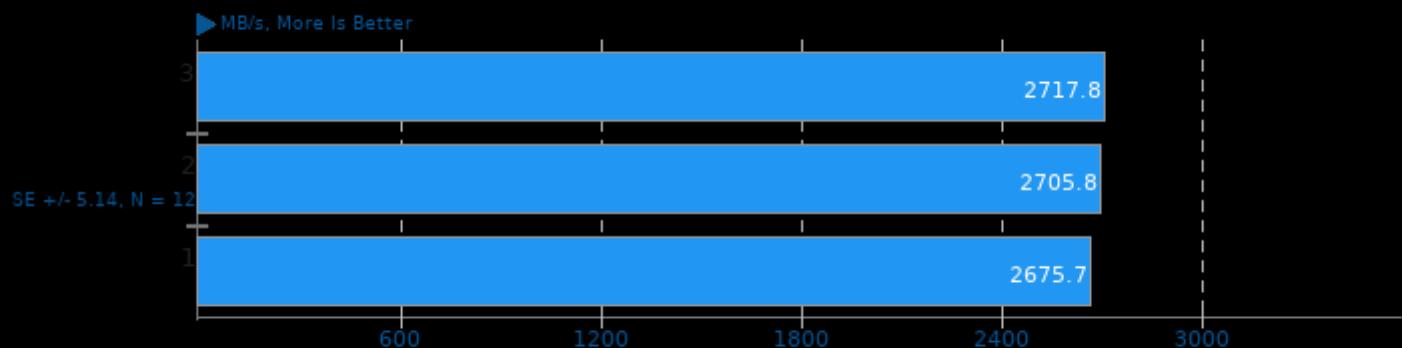
Compression Level: 19 - Compression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

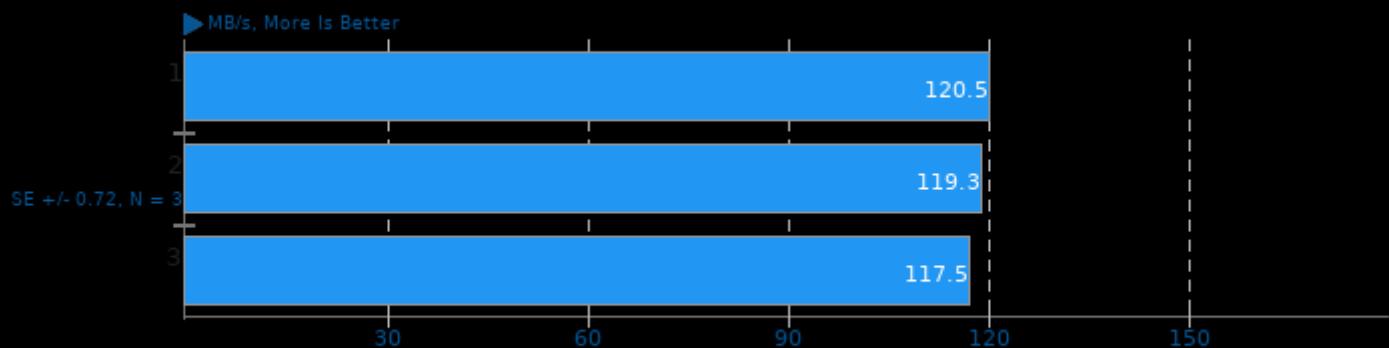
Compression Level: 19 - Decompression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

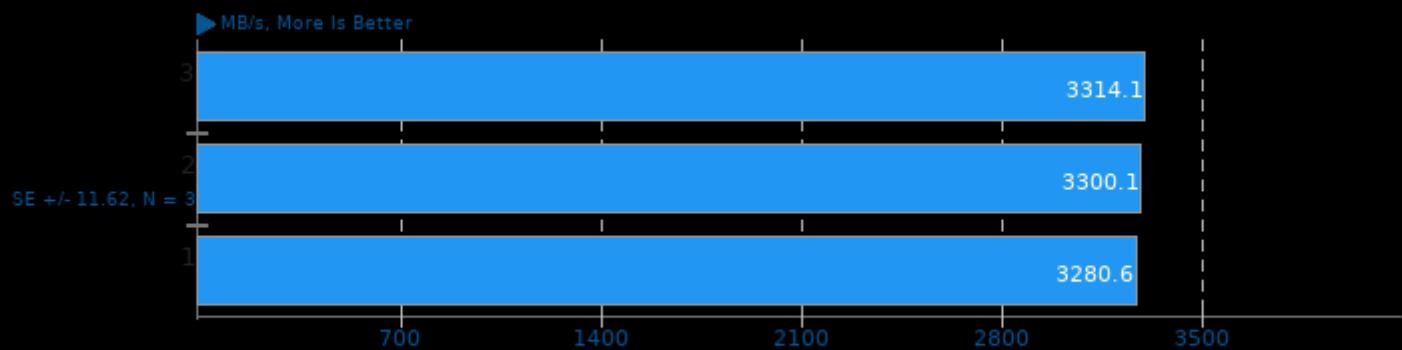
Compression Level: 3, Long Mode - Compression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

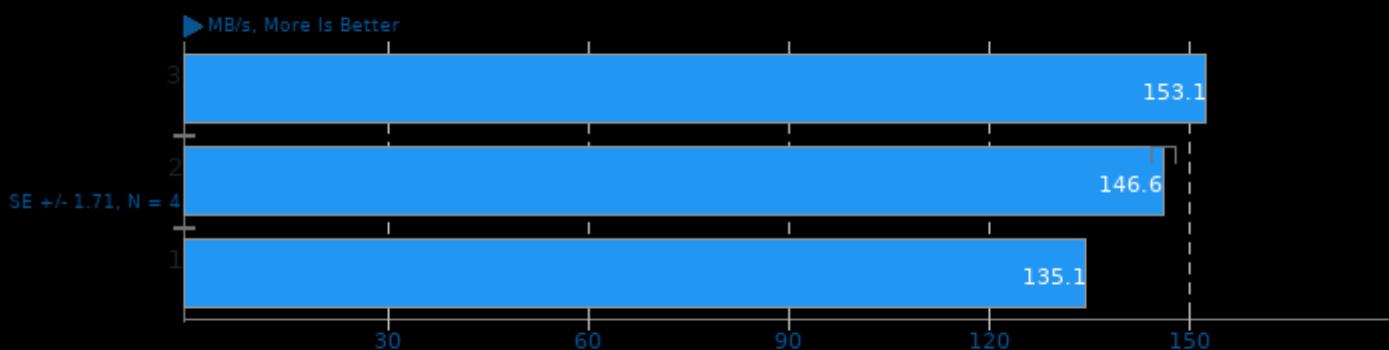
Compression Level: 3, Long Mode - Decompression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

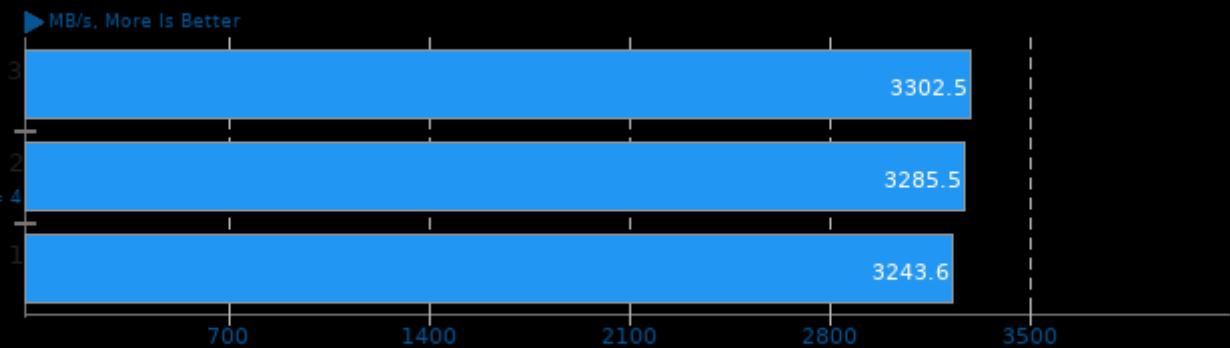
Compression Level: 8, Long Mode - Compression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

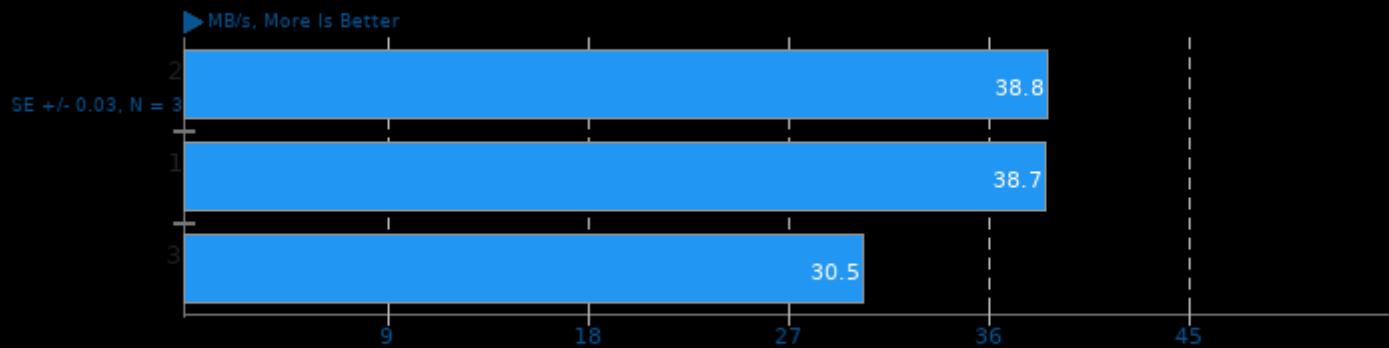
Compression Level: 8, Long Mode - Decompression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

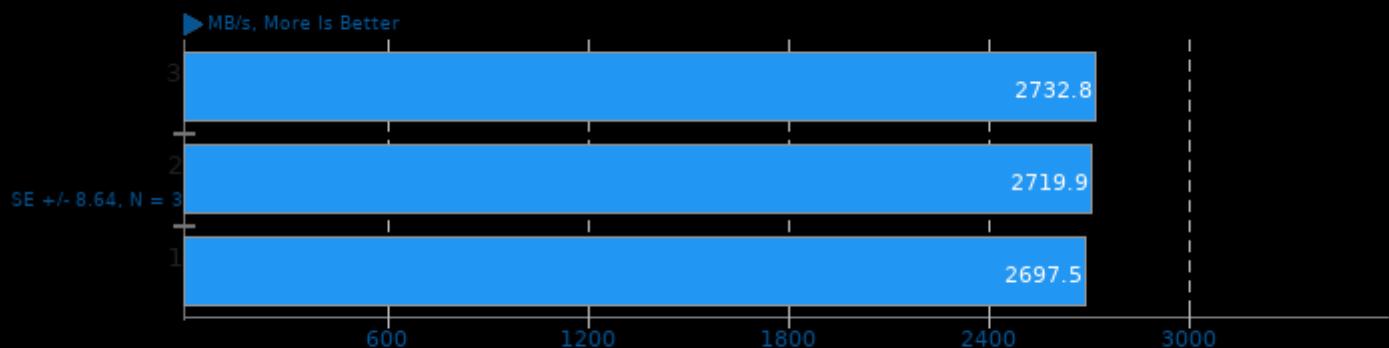
Compression Level: 19, Long Mode - Compression Speed



1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

Zstd Compression

Compression Level: 19, Long Mode - Decompression Speed

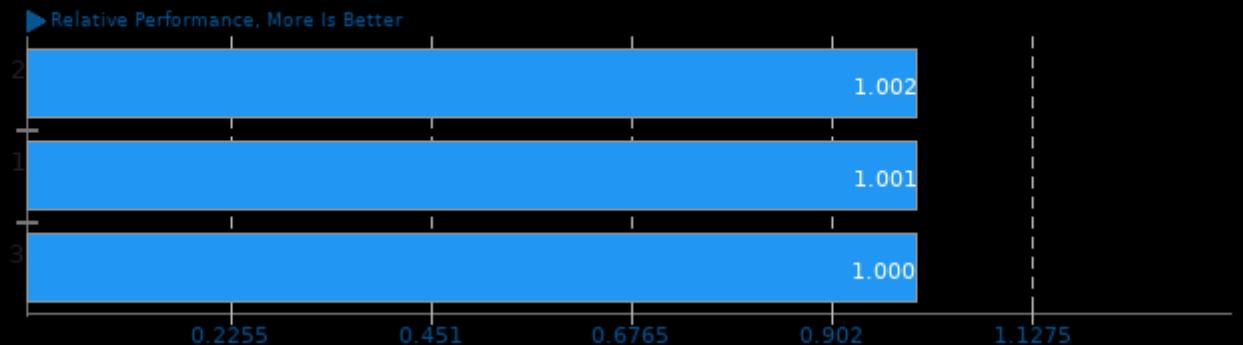


1. *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

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

Geometric Mean Of C/C++ Compiler Tests

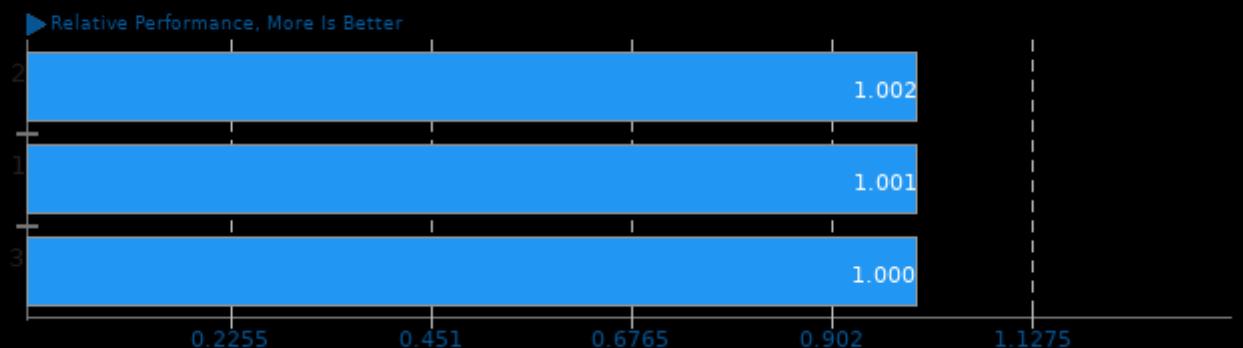
Result Composite - sat



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

Geometric Mean Of Creator Workloads Tests

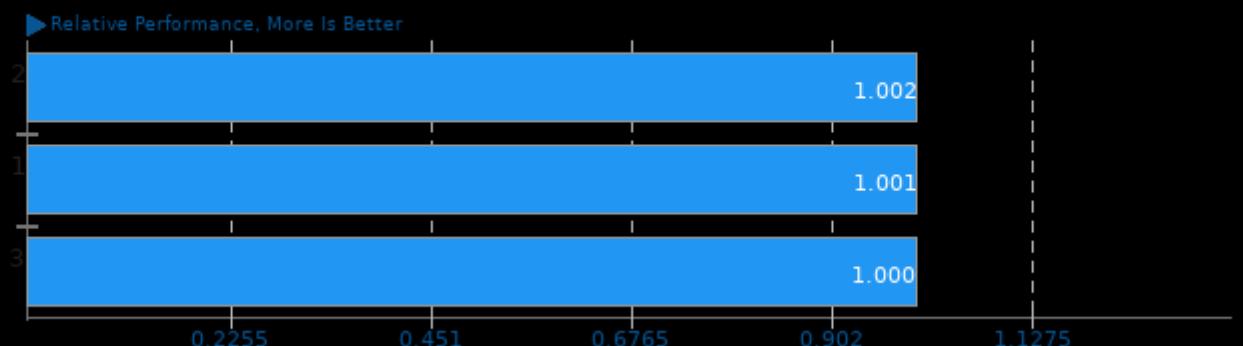
Result Composite - sat



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

Geometric Mean Of Encoding Tests

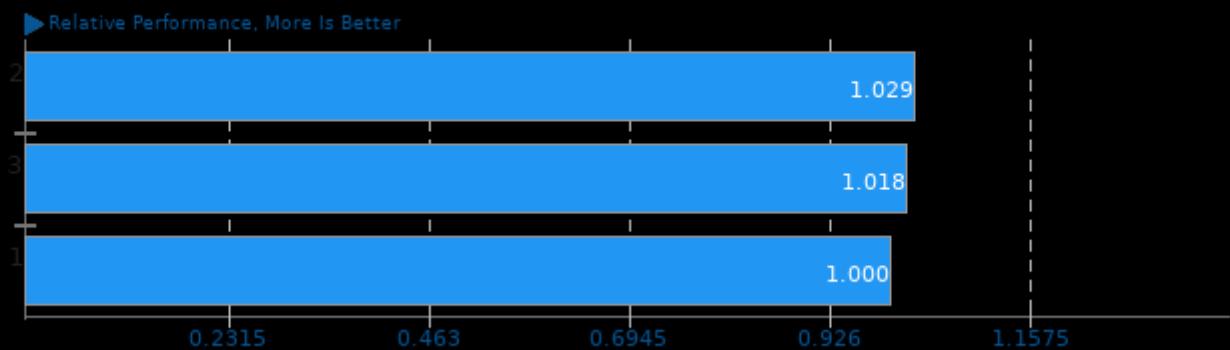
Result Composite - sat



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

Geometric Mean Of HPC - High Performance Computing Tests

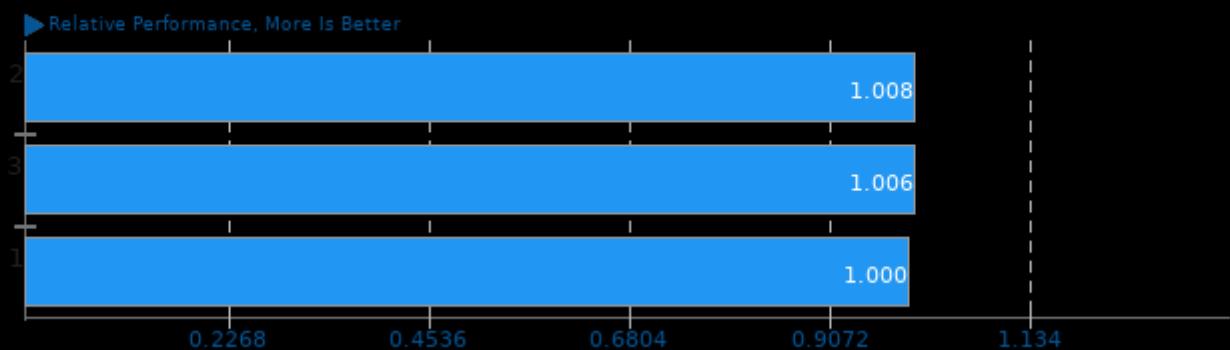
Result Composite - sat



Geometric mean based upon tests: pts/npb and pts/opencv

Geometric Mean Of Multi-Core Tests

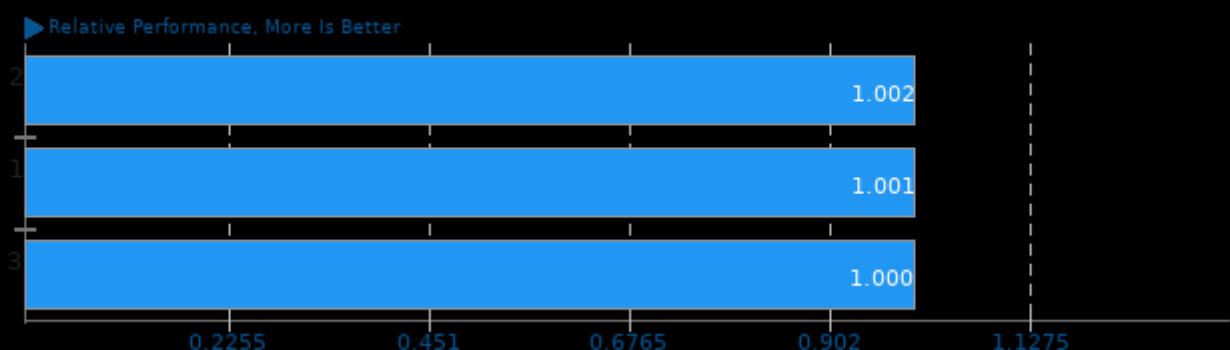
Result Composite - sat



Geometric mean based upon tests: pts/kvazaar, pts/aom-av1 and pts/npb

Geometric Mean Of Video Encoding Tests

Result Composite - sat



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 11:52.