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1235L EO March

Intel Xeon E3-1235L v5 testing with a ASRockRack C236M WS (P2.60 BIOS) and Intel HD 530 SKL GT2 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 41% of the tests.

Based on the geometric mean of all complete results, the fastest (4) was 1.177x the speed of the slowest (3). 1 was 0.852x the speed of 4, 2 was 0.999x the speed of 1, 3 was 0.998x the speed of 2.

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

SHOC Scalable HeterOgeneous Computing (Target: OpenCL - Benchmark: Bus Speed Readback) at 1.128x
Zstd Compression (Compression Level: 8, Long Mode - Compression Speed) at 1.074x
GNU Radio (Test: Five Back to Back FIR Filters) at 1.071x
SHOC Scalable HeterOgeneous Computing (Target: OpenCL - Benchmark: Bus Speed Download) at 1.068x
srsLTE (Test: OFDM_Test) at 1.06x
LuaRadio (Test: Complex Phase) at 1.047x
SHOC Scalable HeterOgeneous Computing (Target: OpenCL - Benchmark: Triad) at 1.043x
oneDNN (Harness: IP Shapes 3D - Data Type: f32 - Engine: CPU) at 1.037x
Stockfish (Total Time) at 1.027x

Zstd Compression (Compression Level: 8 - Compression Speed) at 1.024x.

Test Systems:

1

2

3

4

Processor: Intel Xeon E3-1235L v5 @ 3.00GHz (4 Cores), Motherboard: ASRockRack C236M WS (P2.60 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 8GB, Disk: Samsung SSD 960 EVO 500GB, Graphics: Intel HD 530 SKL GT2 3GB (1000MHz), Audio: Realtek ALC1150, Monitor: DELL S2409W, Network: Intel I219-LM + Intel I210

OS: Ubuntu 20.04, Kernel: 5.8.0-050800-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.0.8, OpenCL: OpenCL 2.1, 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: intel_pstate powersave - CPU Microcode: 0xe2 - Thermald 1.9.1
Python Notes: Python 3.8.5
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT disabled + mds: Mitigation of Clear buffers; SMT disabled + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: disabled RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of Clear buffers; SMT disabled

	1	2	3	4
SHOC Scalable HeterOgeneous Computing - OpenCL - S3D (GFLOPS)	**13.9651**	13.9881	14.0617	**14.1549**
Normalized	98.66%	98.82%	99.34%	100%
SHOC Scalable HeterOgeneous Computing - OpenCL - Triad (GB/s)	8.9187	**9.1105**	**8.7317**	9.0377
Normalized	97.89%	100%	95.84%	99.2%
SHOC Scalable HeterOgeneous Computing - OpenCL - FFT SP (GFLOPS)	**12.1551**	12.1399	12.1458	**12.1057**
Normalized	100%	99.87%	99.92%	99.59%

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SHOC Scalable HeterOgeneous Computing - OpenCL - MD5 Hash (GHash/s)	0.3057	0.3056	0.3056	0.3057
Normalized	100%	99.97%	99.97%	100%
SHOC Scalable HeterOgeneous Computing - OpenCL - Reduction	25.1219	25.4148	25.1586	25.3375
Normalized	98.85%	100%	98.99%	99.7%
SHOC Scalable HeterOgeneous Computing - OpenCL - GEMM SGEMM_N (GFLOPS)	173.251	170.277	171.738	173.004
Normalized	100%	98.28%	99.13%	99.86%
SHOC Scalable HeterOgeneous Computing - OpenCL - Max SP Flops (GFLOPS)	1391	1393	1391	1394
Normalized	99.77%	99.91%	99.79%	100%
SHOC Scalable HeterOgeneous Computing - OpenCL - Bus Speed Download (GB/s)	21.3477	20.3185	19.998	21.3653
Normalized	99.92%	95.1%	93.6%	100%
SHOC Scalable HeterOgeneous Computing - OpenCL - Bus Speed Readback (GB/s)	20.5539	21.6547	19.7867	19.1975
Normalized	94.92%	100%	91.37%	88.65%
SHOC Scalable HeterOgeneous Computing - OpenCL - T.R.B (GB/s)	44.5441	44.8727	44.3831	44.5874
Normalized	99.27%	100%	98.91%	99.36%
toyBrot Fractal Generator - OpenMP (ms)	242445	241854	242420	242453
Normalized	99.76%	100%	99.77%	99.75%
toyBrot Fractal Generator - C++ Tasks (ms)	243550	243621	243650	243597
Normalized	100%	99.97%	99.96%	99.98%
toyBrot Fractal Generator - C++ Threads (ms)	243105	243150	243249	243209
Normalized	100%	99.98%	99.94%	99.96%
Xcompact3d Incompact3d - i.i.1.C.P.D (sec)	67.5624008	67.2390137	67.3857574	67.590126
Normalized	99.52%	100%	99.78%	99.48%
Xcompact3d Incompact3d - i.i.1.C.P.D (sec)	230.296021	229.894821	229.382568	230.191071
Normalized	99.6%	99.78%	100%	99.65%
simdjson - Kostya (GB/s)	1.86	1.87	1.87	1.86
Normalized	99.47%	100%	100%	99.47%
simdjson - LargeRand (GB/s)	0.68	0.68	0.68	0.68
simdjson - PartialTweets (GB/s)	2.66	2.66	2.66	2.66
simdjson - DistinctUserID (GB/s)	2.99	2.99	2.99	2.99
GNU GMP GMPbench - Total Time (GMPbench Score)	3734	3732	3732	3733
Normalized	100%	99.95%	99.97%	99.98%

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Zstd Compression - 3 - Compression Speed (MB/s)	1266	1268	**1251**	**1274**
Normalized	99.37%	99.51%	98.23%	100%
Zstd Compression - 3 - D.S (MB/s)	2575	**2577**	**2573**	2573
Normalized	99.92%	100%	99.85%	99.86%
Zstd Compression - 8 - Compression Speed (MB/s)	**193**	197	193.5	**197.6**
Normalized	97.67%	99.7%	97.93%	100%
Zstd Compression - 8 - D.S (MB/s)	2643	2665	**2670**	**2629**
Normalized	99%	99.81%	100%	98.46%
Zstd Compression - 19 - Compression Speed (MB/s)	**11.4**	**11.5**	**11.4**	**11.4**
Normalized	99.13%	100%	99.13%	99.13%
Zstd Compression - 19 - D.S (MB/s)	2416	2422	**2415**	**2422**
Normalized	99.75%	99.99%	99.72%	100%
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	**637**	637.9	637.3	**638.4**
Normalized	99.78%	99.92%	99.83%	100%
Zstd Compression - 3, Long Mode - D.S (MB/s)	2739	2737	**2743**	**2737**
Normalized	99.83%	99.78%	100%	99.77%
Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	206.7	**196.3**	209	**210.9**
Normalized	98.01%	93.08%	99.1%	100%
Zstd Compression - 8, Long Mode - D.S (MB/s)	2845	2844	**2849**	**2841**
Normalized	99.88%	99.85%	100%	99.74%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	**9.49**	**9.53**	**9.53**	9.51
Normalized	99.58%	100%	100%	99.79%
Zstd Compression - 19, Long Mode - D.S (MB/s)	**2416**	**2428**	2419	2419
Normalized	99.51%	100%	99.65%	99.63%
srsLTE - OFDM_Test (Samples / Second)	78000000	**73700000**	**78100000**	76900000
Normalized	99.87%	94.37%	100%	98.46%
srsLTE - PHY_DL_Test (eNb Mb/s)	172.6	**171.6**	**173.5**	173.4
Normalized	99.48%	98.9%	100%	99.94%
srsLTE - PHY_DL_Test (UE Mb/s)	**66.4**	**66.7**	**66.4**	**66.4**
Normalized	99.55%	100%	99.55%	99.55%
Botan - KASUMI (MiB/s)	**67.149**	67.161	67.17	**67.171**
Normalized	99.97%	99.99%	100%	100%
Botan - KASUMI - Decrypt (MiB/s)	**64.694**	64.728	64.741	**64.748**
Normalized	99.92%	99.97%	99.99%	100%
Botan - AES-256 (MiB/s)	2868	**2870**	**2865**	2869
Normalized	99.92%	100%	99.82%	99.95%
Botan - AES-256 - Decrypt (MiB/s)	**2862**	2862	**2861**	2861
Normalized	100%	99.99%	99.95%	99.96%
Botan - Twofish (MiB/s)	**260.743**	**260.952**	260.781	260.803
Normalized	99.92%	100%	99.93%	99.94%
Botan - Twofish - Decrypt (MiB/s)	262.354	**262.374**	**262.13**	262.199
Normalized	99.99%	100%	99.91%	99.93%

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Botan - Blowfish (MiB/s)	325.191	**325.196**	324.336	**324.309**
Normalized	100%	100%	99.74%	99.73%
Botan - Blowfish - Decrypt (MiB/s)	322.488	**322.552**	321.939	**321.855**
Normalized	99.98%	100%	99.81%	99.78%
Botan - CAST-256 (MiB/s)	**102.869**	**102.796**	102.845	102.804
Normalized	100%	99.93%	99.98%	99.94%
Botan - CAST-256 - Decrypt (MiB/s)	**102.964**	**102.923**	102.929	102.939
Normalized	100%	99.96%	99.97%	99.98%
Botan - ChaCha20Poly1305 (MiB/s)	**541.756**	540.203	**539.455**	541.453
Normalized	100%	99.71%	99.58%	99.94%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s)	537.101	537.183	**536.716**	**538.038**
Normalized	99.83%	99.84%	99.75%	100%
LuaRadio - F.B.t.B.F.F (MiB/s)	**455.1**	449.9	452.5	**449.6**
Normalized	100%	98.86%	99.43%	98.79%
LuaRadio - F.D.F (MiB/s)	**273**	**273.2**	273.1	**273**
Normalized	99.93%	100%	99.96%	99.93%
LuaRadio - Hilbert Transform (MiB/s)	52.1	52	**51.9**	**52.5**
Normalized	99.24%	99.05%	98.86%	100%
LuaRadio - Complex Phase (MiB/s)	375.5	370	**386.4**	**368.9**
Normalized	97.18%	95.76%	100%	95.47%
GNU Radio - F.B.t.B.F.F (MiB/s)	**374.5**	369.7	**349.8**	368.9
Normalized	100%	98.72%	93.4%	98.5%
GNU Radio - S.S.C (MiB/s)	1693	**1702**	1697	**1691**
Normalized	99.51%	100%	99.75%	99.35%
GNU Radio - FIR Filter (MiB/s)	**406.1**	406.5	**409.1**	408
Normalized	99.27%	99.36%	100%	99.73%
GNU Radio - IIR Filter (MiB/s)	330.7	**331.8**	330.3	**328.9**
Normalized	99.67%	100%	99.55%	99.13%
GNU Radio - F.D.F (MiB/s)	428.7	427.4	**420.7**	**430.2**
Normalized	99.65%	99.35%	97.79%	100%
GNU Radio - Hilbert Transform (MiB/s)	**312.5**	311.4	**310.1**	310.6
Normalized	100%	99.65%	99.23%	99.39%
dav1d - Chimera 1080p (FPS)	201.57	**201.17**	**202.68**	
Normalized	99.45%	99.25%	100%	
dav1d - Summer Nature 4K (FPS)	**55.04**	55.05	**55.21**	
Normalized	99.69%	99.71%	100%	
dav1d - S.N.1 (FPS)	**185.57**	**185.28**	185.42	
Normalized	100%	99.84%	99.92%	
dav1d - C.1.1.b (FPS)	53.23	**53.19**	**53.35**	
Normalized	99.78%	99.7%	100%	
AOM AV1 - Speed 0 Two-Pass - Bosphorus 4K (FPS)	0.05	0.05	0.05	
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	1.2	1.2	1.2	
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	4.42	4.42	4.42	
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	2.18	2.18	2.18	
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	13.78	**13.82**	**13.76**	
Normalized	99.71%	100%	99.57%	

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AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	**17.56**	**17.49**	17.54
Normalized	100%	99.6%	99.89%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 1080p (FPS)	0.14	0.14	0.14
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)	2.76	2.76	2.76
AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)	8.58	**8.62**	**8.53**
Normalized	99.54%	100%	98.96%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)	**7.03**	**7.03**	**7.05**
Normalized	99.72%	99.72%	100%
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)	**47.84**	47.98	**48.01**
Normalized	99.65%	99.94%	100%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)	**56.38**	**56.44**	56.41
Normalized	99.89%	100%	99.95%
SVT-HEVC - 1 - Bosphorus 1080p	**2.08**	**2.08**	**2.07**
Normalized	100%	100%	99.52%
SVT-HEVC - 7 - Bosphorus 1080p	**30.4**	**30.37**	30.38
Normalized	100%	99.9%	99.93%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	**64.41**	**64.66**	64.51
Normalized	99.61%	100%	99.77%
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	57.24	**57.38**	**57.15**
Normalized	99.76%	100%	99.6%
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	**57.71**	57.6	**57.56**
Normalized	100%	99.81%	99.74%
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	**47.12**	47	**46.93**
Normalized	100%	99.75%	99.6%
Stockfish - Total Time (Nodes/s)	**5974630**	**5817576**	5930992
Normalized	100%	97.37%	99.27%
libavif avifenc - 0 (sec)	**206.625**	**207.959**	207.181
Normalized	100%	99.36%	99.73%
libavif avifenc - 2 (sec)	**104.974**	**104.845**	104.926
Normalized	99.88%	100%	99.92%
libavif avifenc - 6 (sec)	**35.296**	35.346	**35.369**
Normalized	100%	99.86%	99.79%
libavif avifenc - 10 (sec)	**7.094**	7.091	**7.084**
Normalized	99.86%	99.9%	100%
libavif avifenc - 6, Lossless (sec)	204.87	**204.92**	**204.36**
Normalized	99.75%	99.73%	100%
libavif avifenc - 10, Lossless (sec)	12.252	**12.259**	**12.242**
Normalized	99.92%	99.86%	100%

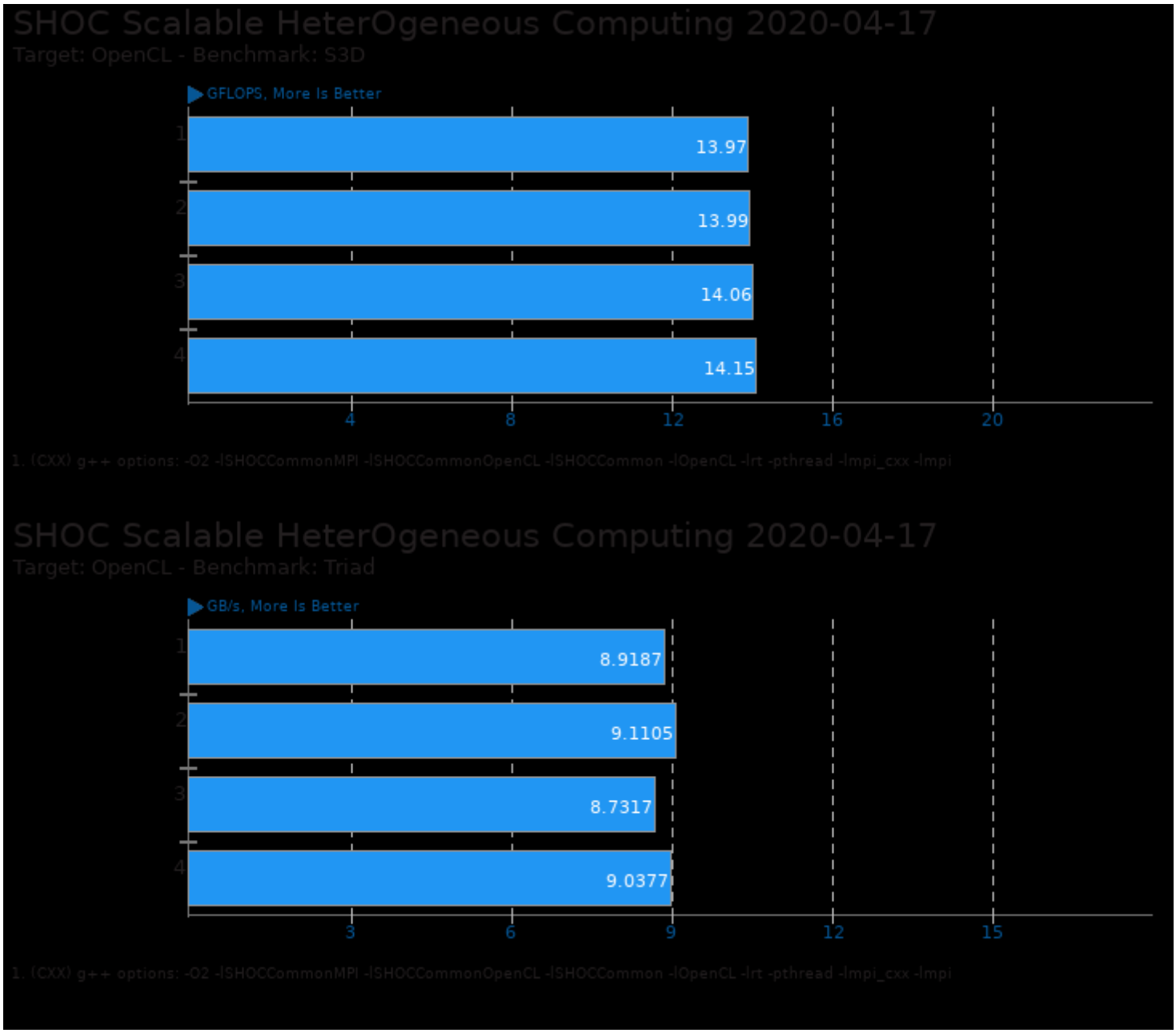
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Timed Linux Kernel Compilation - Time To Compile (sec)	**346.077**	346.093	**346.162**
Normalized	100%	100%	99.98%
Timed Mesa Compilation - Time To Compile (sec)	**191.191**	**190.245**	190.805
Normalized	99.51%	100%	99.71%
Timed Node.js Compilation - Time To Compile (sec)	**1703**	**1704**	1704
Normalized	100%	99.93%	99.95%
oneDNN - IP Shapes 1D - f32 - CPU (ms)	10.6789	**10.6469**	**10.6852**
Normalized	99.7%	100%	99.64%
oneDNN - IP Shapes 3D - f32 - CPU (ms)	13.1555	**13.1254**	**13.6106**
Normalized	99.77%	100%	96.44%
oneDNN - C.B.S.A - f32 - CPU (ms)	21.148	**21.1373**	**21.15**
Normalized	99.95%	100%	99.94%
oneDNN - D.B.s - f32 - CPU (ms)	**15.0562**	15.0407	**15.031**
Normalized	99.83%	99.94%	100%
oneDNN - D.B.s - f32 - CPU (ms)	**18.3957**	18.3225	**18.3064**
Normalized	99.51%	99.91%	100%
oneDNN - R.N.N.T - f32 - CPU (ms)	**9575**	9596	**9600**
Normalized	100%	99.78%	99.73%
oneDNN - R.N.N.I - f32 - CPU (ms)	**5282**	5285	**5294**
Normalized	100%	99.94%	99.76%
oneDNN - M.M.B.S.T - f32 - CPU (ms)	5.51947	**5.51587**	**5.53835**
Normalized	99.93%	100%	99.59%
Timed Erlang/OTP Compilation - Time To Compile (sec)	333.202	**332.411**	**333.245**
Normalized	99.76%	100%	99.75%
Timed Wasmer Compilation - Time To Compile (sec)	**314.486**	314.605	**315.001**
Normalized	100%	99.96%	99.84%
Liquid-DSP - 1 - 256 - 57 (samples/s)	**40290000**	**39690000**	40282000
Normalized	100%	98.51%	99.98%
Liquid-DSP - 2 - 256 - 57 (samples/s)	**75473000**	**75847000**	75843000
Normalized	99.51%	100%	99.99%
Liquid-DSP - 4 - 256 - 57 (samples/s)	**137330000**	**137160000**	137300000
Normalized	100%	99.88%	99.98%
ViennaCL - CPU BLAS - sCOPY (GB/s)	**17**	**17**	**16.9**
Normalized	100%	100%	99.41%
ViennaCL - CPU BLAS - sAXPY (GB/s)	**26.4**	**26.4**	**26.3**
Normalized	100%	100%	99.62%
ViennaCL - CPU BLAS - sDOT (GB/s)	20.8	20.8	20.8
ViennaCL - CPU BLAS - dCOPY (GB/s)	16.4	16.4	16.4
ViennaCL - CPU BLAS - dAXPY (GB/s)	25.8	25.8	25.8
ViennaCL - CPU BLAS - dDOT (GB/s)	**27.2**	**27.3**	**27.3**
Normalized	99.63%	100%	100%
ViennaCL - CPU BLAS - dGEMV-N (GB/s)	**26.2**	**26.5**	**26.5**
Normalized	98.87%	100%	100%

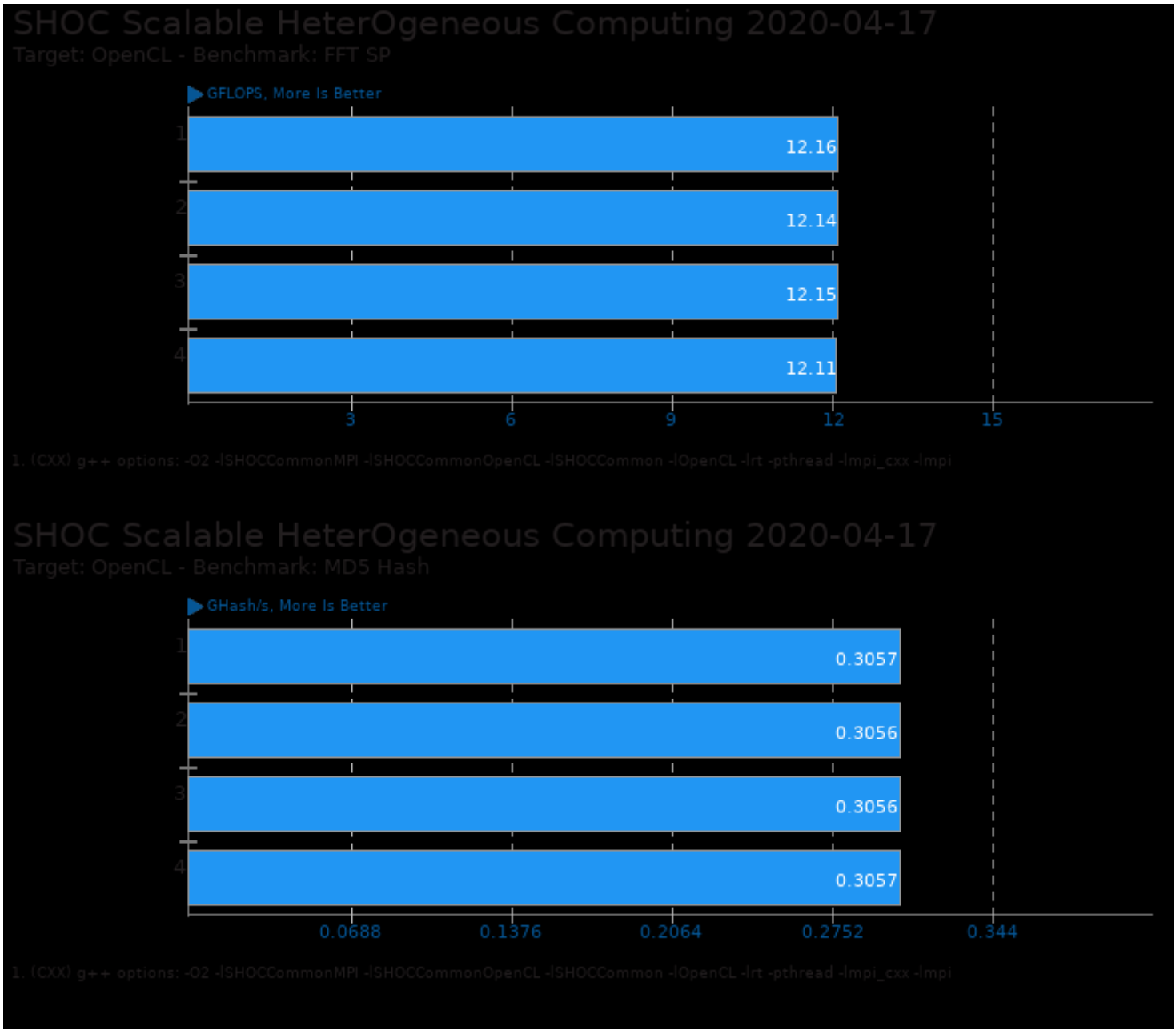
ViennaCL - CPU BLAS - dGEMV-T (GB/s)	20.3	20.3	20.3
ViennaCL - CPU BLAS - dGEMM-NN (GFLOPs/s)	7.71	7.73	7.74
Normalized	99.61%	99.87%	100%
ViennaCL - CPU BLAS - dGEMM-NT (GFLOPs/s)	7.56	7.59	7.58
Normalized	99.6%	100%	99.87%
ViennaCL - CPU BLAS - dGEMM-TN (GFLOPs/s)	7.92	7.93	7.93
Normalized	99.87%	100%	100%
ViennaCL - CPU BLAS - dGEMM-TT (GFLOPs/s)	7.77	7.78	7.78
Normalized	99.87%	100%	100%
ViennaCL - OpenCL BLAS - sCOPY (GB/s)	21.2	21.2	21.1
Normalized	99.53%	99.53%	99.06%
ViennaCL - OpenCL BLAS - sAXPY (GB/s)	22.6	22.5	22.4
Normalized	100%	99.56%	99.12%
ViennaCL - OpenCL BLAS - dCOPY (GB/s)	22.2	22.2	22.2
Normalized	99.55%	99.55%	99.55%
ViennaCL - OpenCL BLAS - dAXPY (GB/s)	23.2	23.2	23.1
Normalized	100%	100%	99.57%
ViennaCL - OpenCL BLAS - dDOT (GB/s)	24.5	24.5	24.5
Normalized	99.59%	99.59%	99.59%
ViennaCL - OpenCL BLAS - dGEMV-N (GB/s)	26.3	26.3	26.2
Normalized	99.62%	99.62%	99.24%
ViennaCL - OpenCL BLAS - dGEMV-T (GB/s)	23.6	23.6	23.6
Normalized	99.58%	99.58%	99.58%
ViennaCL - OpenCL BLAS - dGEMM-NN (GFLOPs/s)	15	15	15
ViennaCL - OpenCL BLAS - dGEMM-NT (GFLOPs/s)	13	13	13
ViennaCL - OpenCL BLAS - dGEMM-TN (GFLOPs/s)	12.5	12.5	12.5
Normalized	100%	100%	100%
ViennaCL - OpenCL BLAS - dGEMM-TT (GFLOPs/s)	12.4		12.4
ASTC Encoder - Medium (sec)	7.3356	7.3448	7.335
Normalized	99.99%	99.87%	100%
ASTC Encoder - Thorough (sec)	57.7228	57.7334	57.7271
Normalized	100%	99.98%	99.99%
ASTC Encoder - Exhaustive (sec)	449.2601	449.5103	449.4501
Normalized	100%	99.94%	99.96%
Basis Universal - ETC1S (sec)	52.416	52.58	52.538

1235L EO March

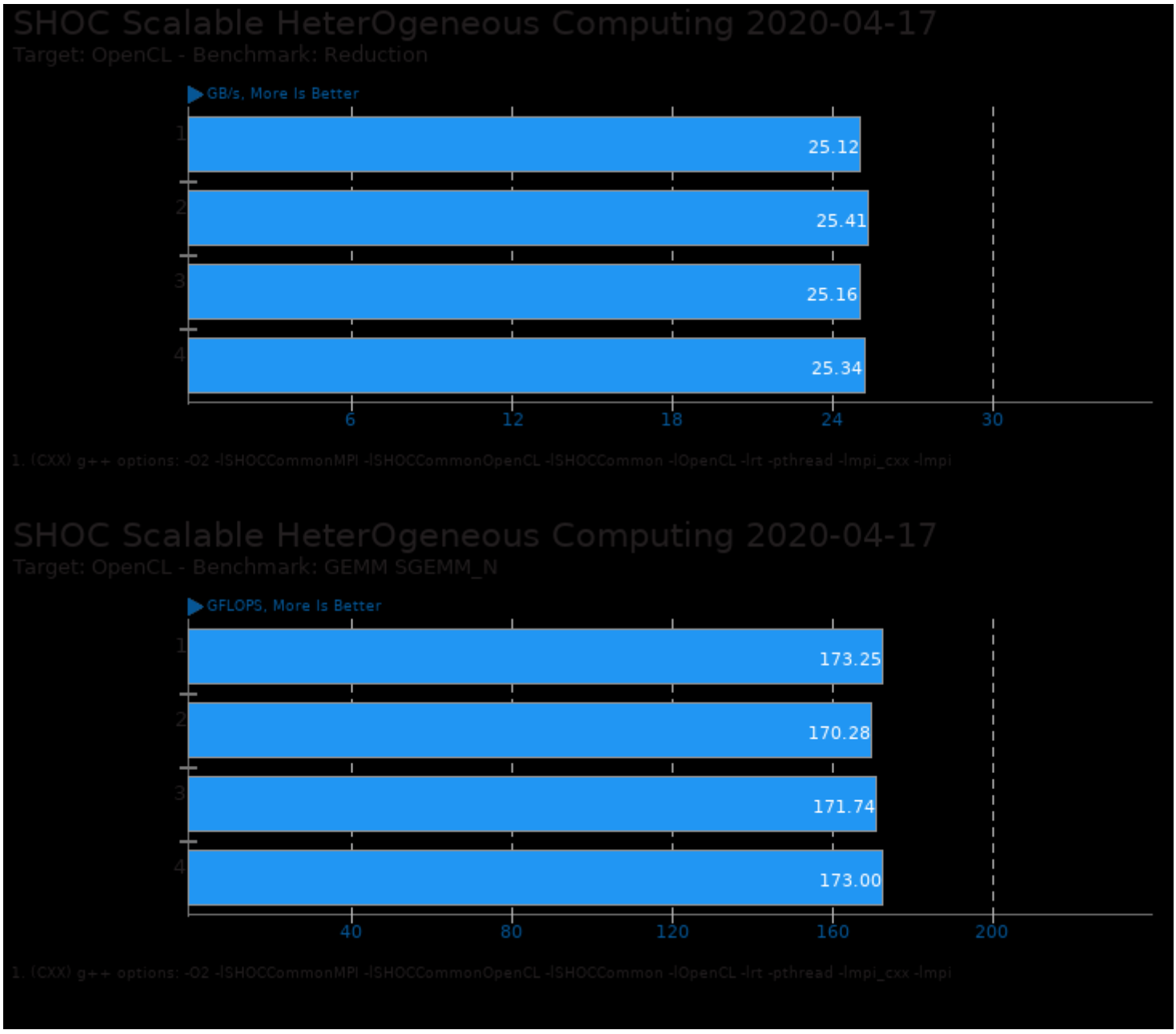
Normalized	100%	99.69%	99.77%
Basis Universal - UASTC Level 0 (sec)	15.115	15.12	15.123
Normalized	100%	99.97%	99.95%
Basis Universal - UASTC Level 2 (sec)	109.79	109.755	109.796
Normalized	99.97%	100%	99.96%
Basis Universal - UASTC Level 3 (sec)	224.677	224.669	224.793
Normalized	100%	100%	99.94%
OpenSCAD - Pistol (sec)	168.219	168.758	168.413
Normalized	100%	99.68%	99.88%
OpenSCAD - Retro Car (sec)	29.054	29.013	29.04
Normalized	99.86%	100%	99.91%
OpenSCAD - Mini-ITX Case (sec)	70.256	70.38	71.074
Normalized	100%	99.82%	98.85%
OpenSCAD - P.M.S (sec)	154.978	155.528	154.354
Normalized	99.6%	99.25%	100%
OpenSCAD - L.P.C.S (sec)	28.372	28.263	28.295
Normalized	99.62%	100%	99.89%
Mobile Neural Network - SqueezeNetV1.0 (ms)	8.322	8.316	8.3
Normalized	99.74%	99.81%	100%
Mobile Neural Network - resnet-v2-50 (ms)	38.977	38.889	39.059
Normalized	99.77%	100%	99.56%
Mobile Neural Network - MobileNetV2_224 (ms)	4.896	4.879	4.83
Normalized	98.65%	99%	100%
Mobile Neural Network - mobilenet-v1-1.0 (ms)	5.778	5.771	5.765
Normalized	99.78%	99.9%	100%
Mobile Neural Network - inception-v3 (ms)	53.868	53.764	54.198
Normalized	99.81%	100%	99.2%
Sysbench - RAM / Memory (MiB/sec)	8099	8120	8156
Normalized	99.3%	99.55%	100%
Sysbench - CPU (Events/sec)	3805	3802	3798
Normalized	100%	99.92%	99.84%
Systemd Total Boot Time - Total (ms)	23941	23941	23941
Systemd Total Boot Time - Kernel	1628	1628	1628
Systemd Total Boot Time - Loader	3507	3507	3507
Systemd Total Boot Time - Firmware (ms)	8273	8273	8273
Systemd Total Boot Time - Userspace (ms)	22313	22313	22313
ViennaCL - OpenCL BLAS - sDOT (GB/s)		22.7	22.6
Normalized		99.13%	98.69%

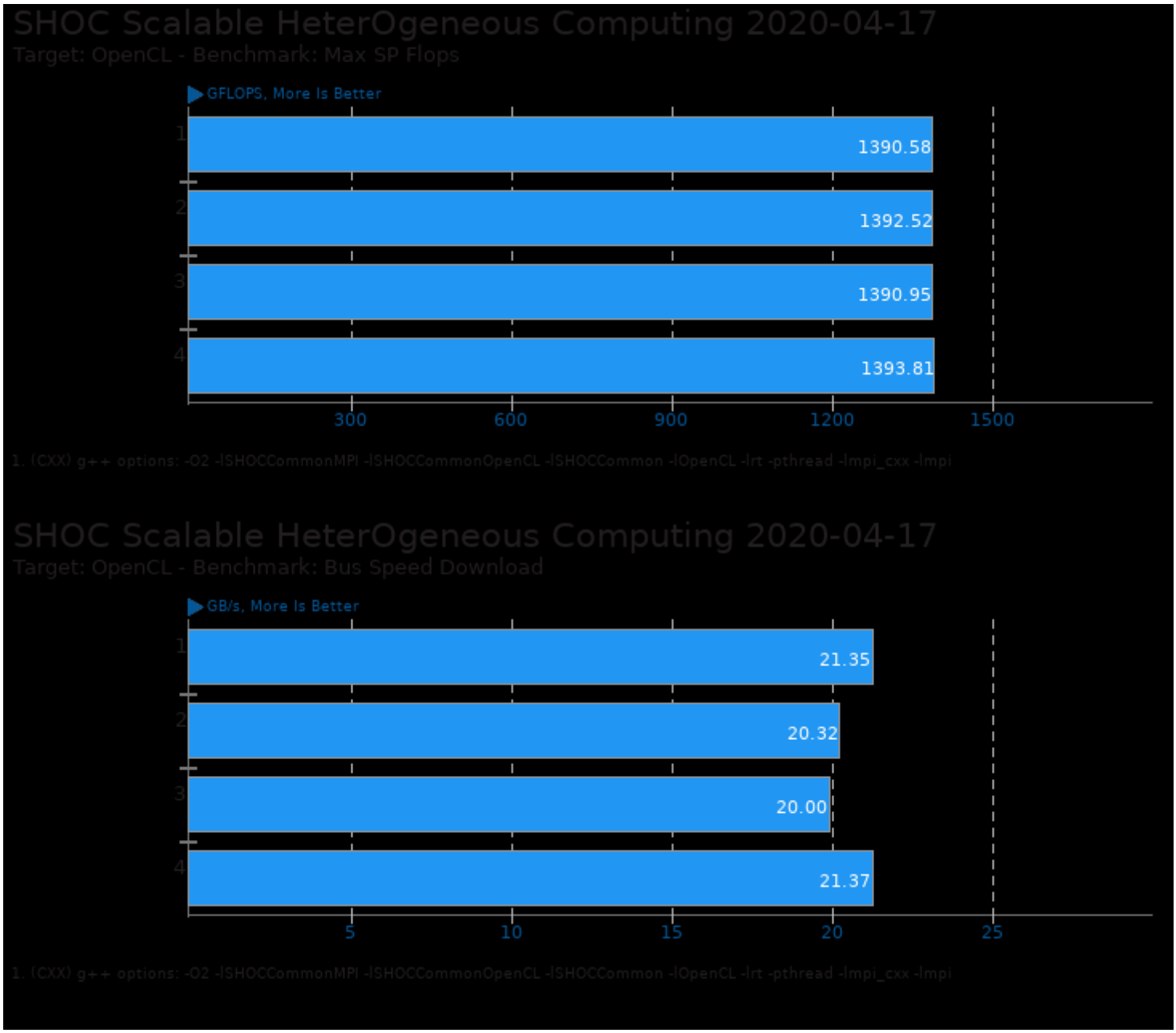

SHOC Scalable HeterOgeneous Computing 2020-04-17
Target: OpenCL - Benchmark: S3D
GFLOPS, More Is Better
1
13.97
2
13.99
3
14.06
4
14.15
4
8
12
16
20
1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi
SHOC Scalable HeterOgeneous Computing 2020-04-17
Target: OpenCL - Benchmark: Triad
GB/s, More Is Better
1
8.9187
2
9.1105
3
8.7317
4
9.0377
3
6
9
12
15
1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

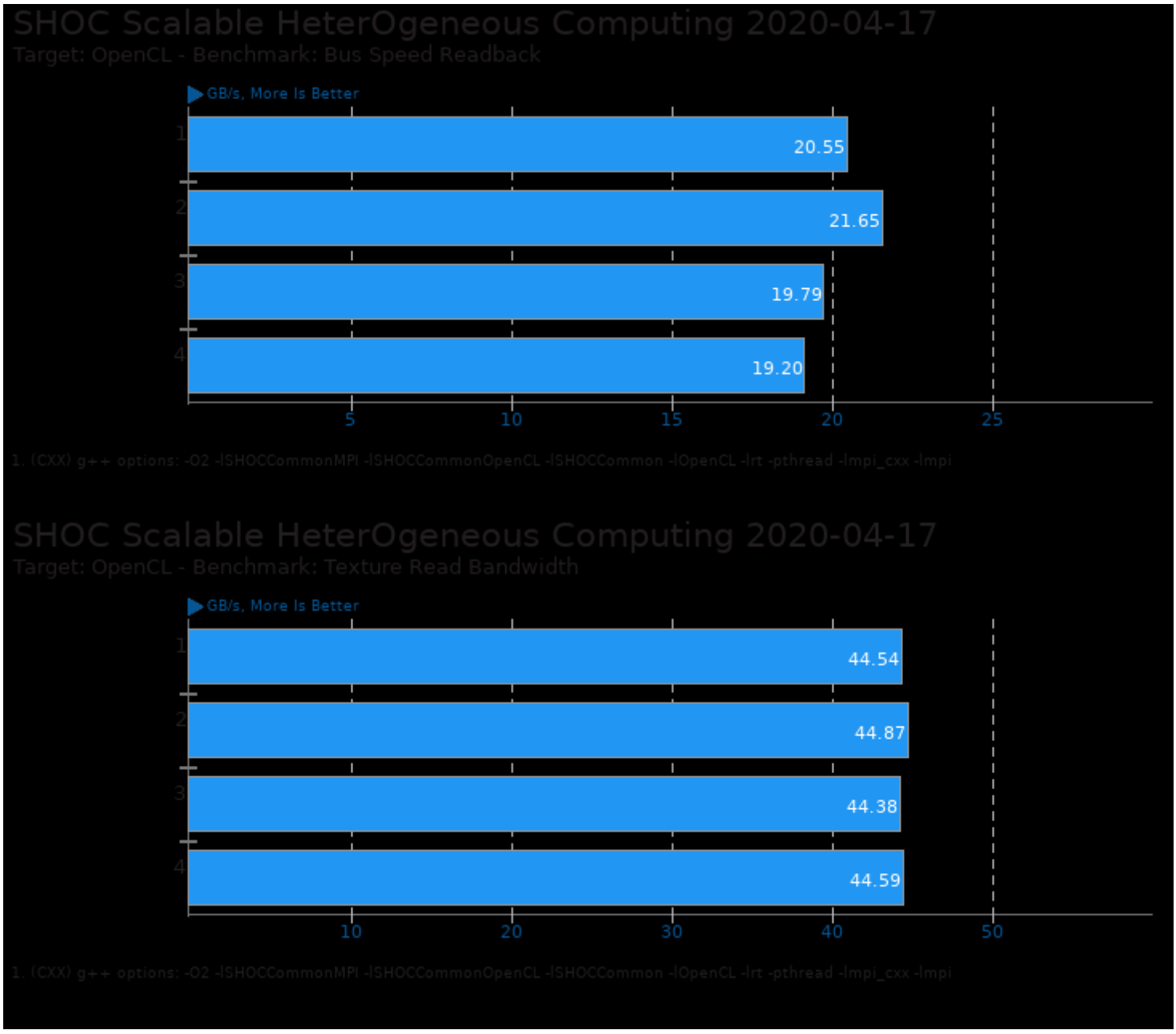
1235L EO March



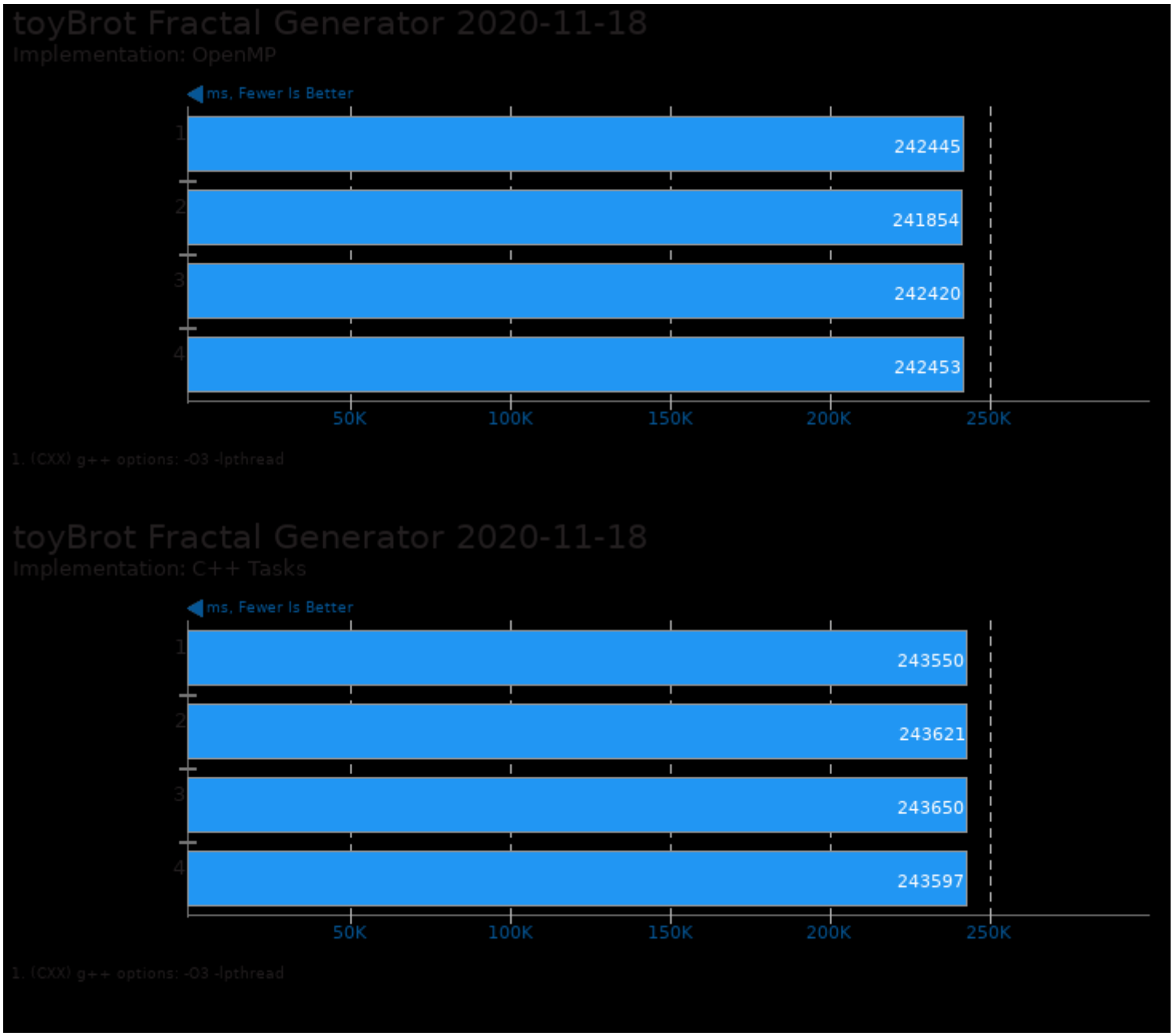
1235L EO March



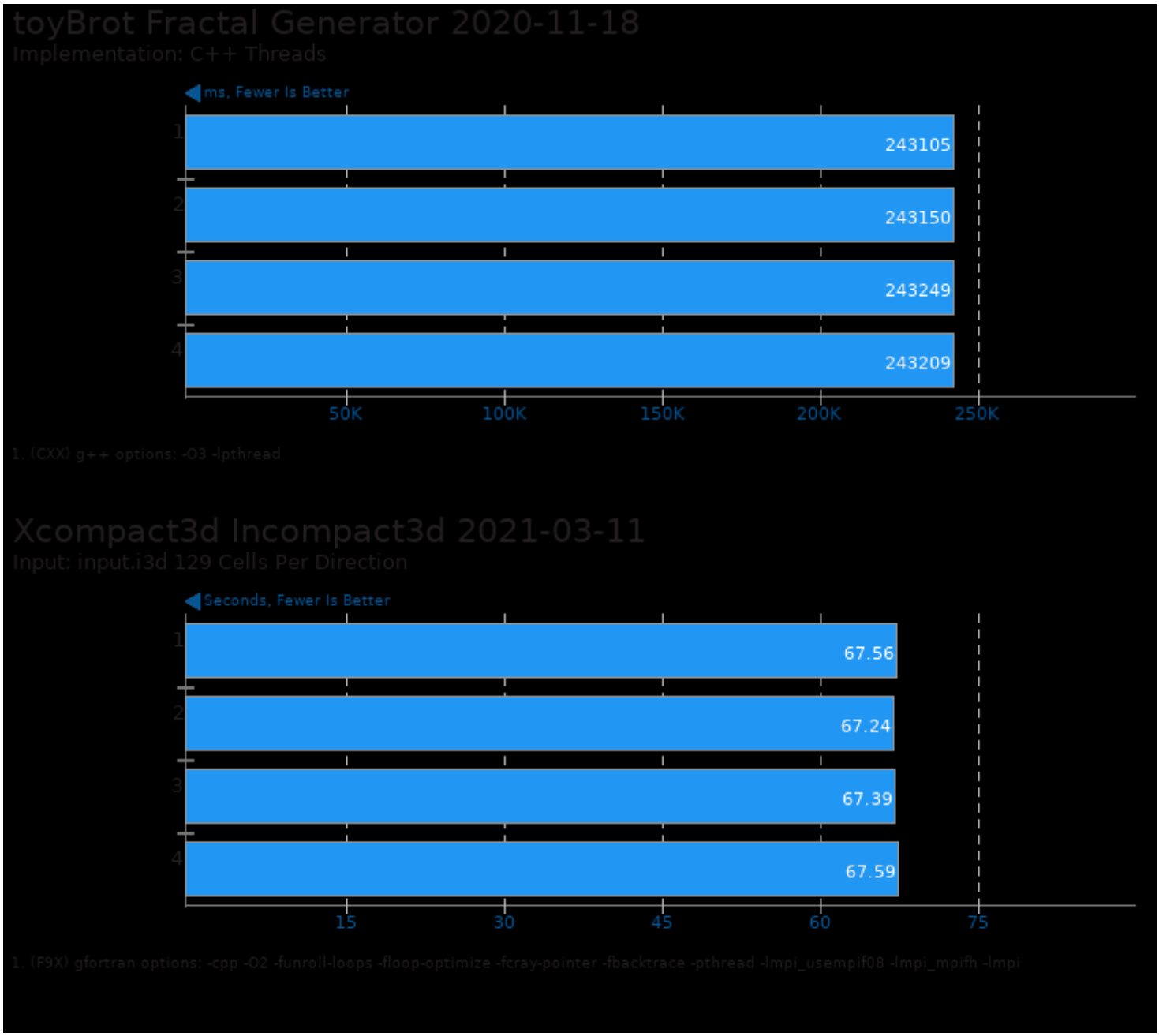

SHOC Scalable HeterOgeneous Computing 2020-04-17
Target: OpenCL - Benchmark: Max SP Flops
GFLOPS, More Is Better
1
1390.58
2
1392.52
3
1390.95
4
1393.81
300
600
900
1200
1500
1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi
SHOC Scalable HeterOgeneous Computing 2020-04-17
Target: OpenCL - Benchmark: Bus Speed Download
GB/s, More Is Better
1
21.35
2
20.32
3
20.00
4
21.37
5
10
15
20
25
1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

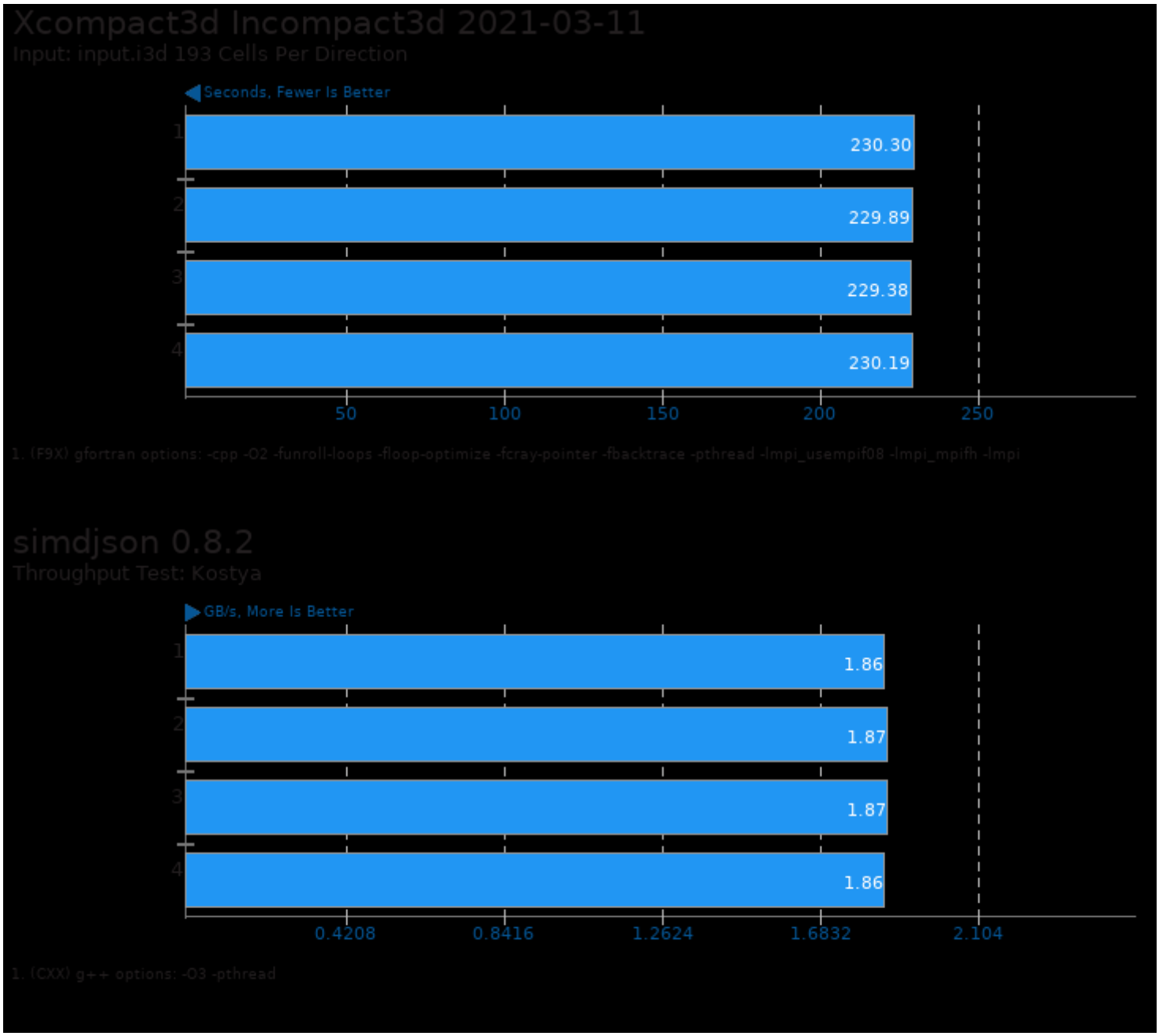

SHOC Scalable HeterOgeneous Computing 2020-04-17
Target: OpenCL - Benchmark: Bus Speed Readback
GB/s, More Is Better
1
20.55
2
21.65
3
19.79
4
19.20
5
10
15
20
25
1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi
SHOC Scalable HeterOgeneous Computing 2020-04-17
Target: OpenCL - Benchmark: Texture Read Bandwidth
GB/s, More Is Better
1
44.54
2
44.87
3
44.38
4
44.59
10
20
30
40
50
1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

1235L EO March

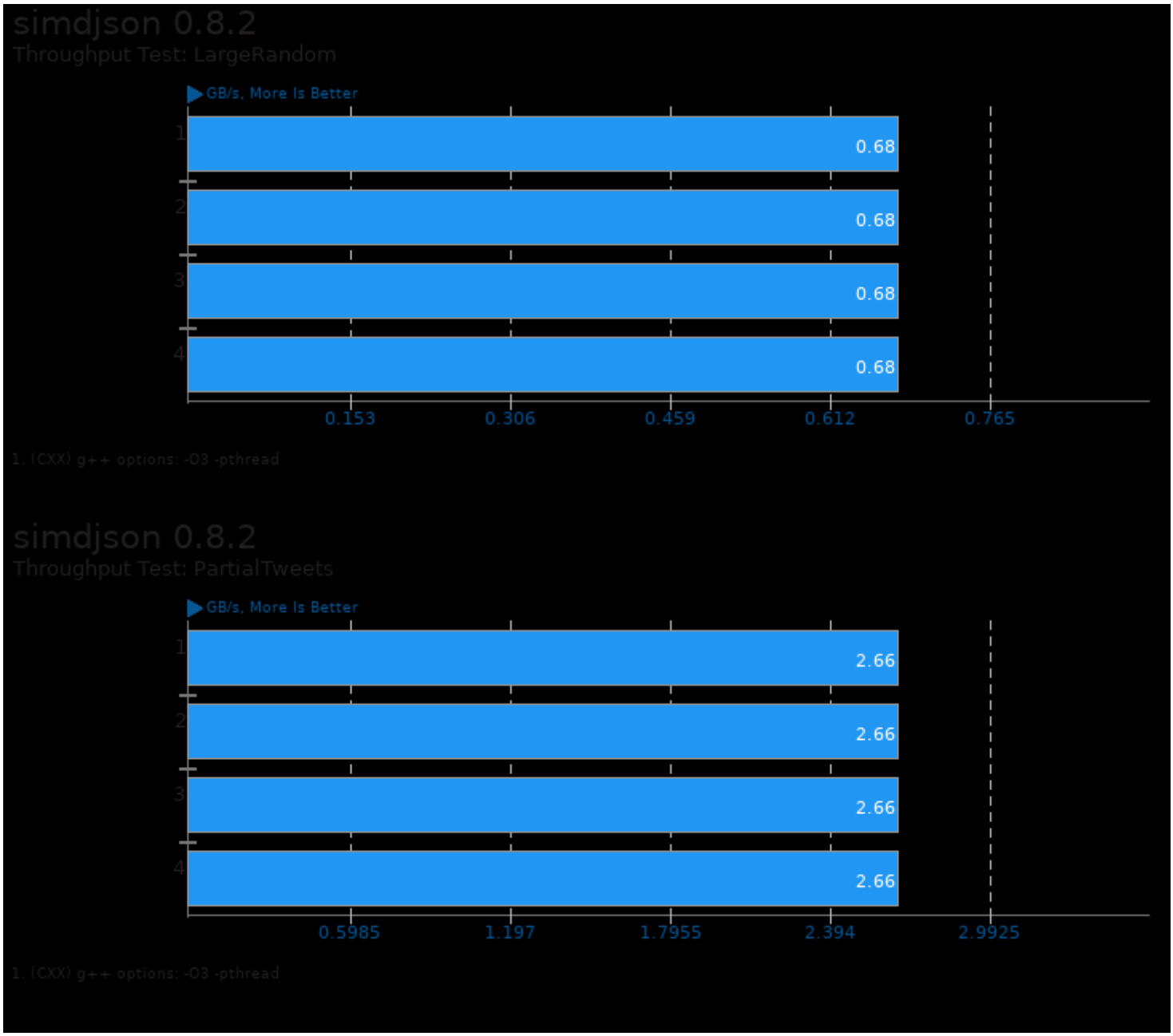


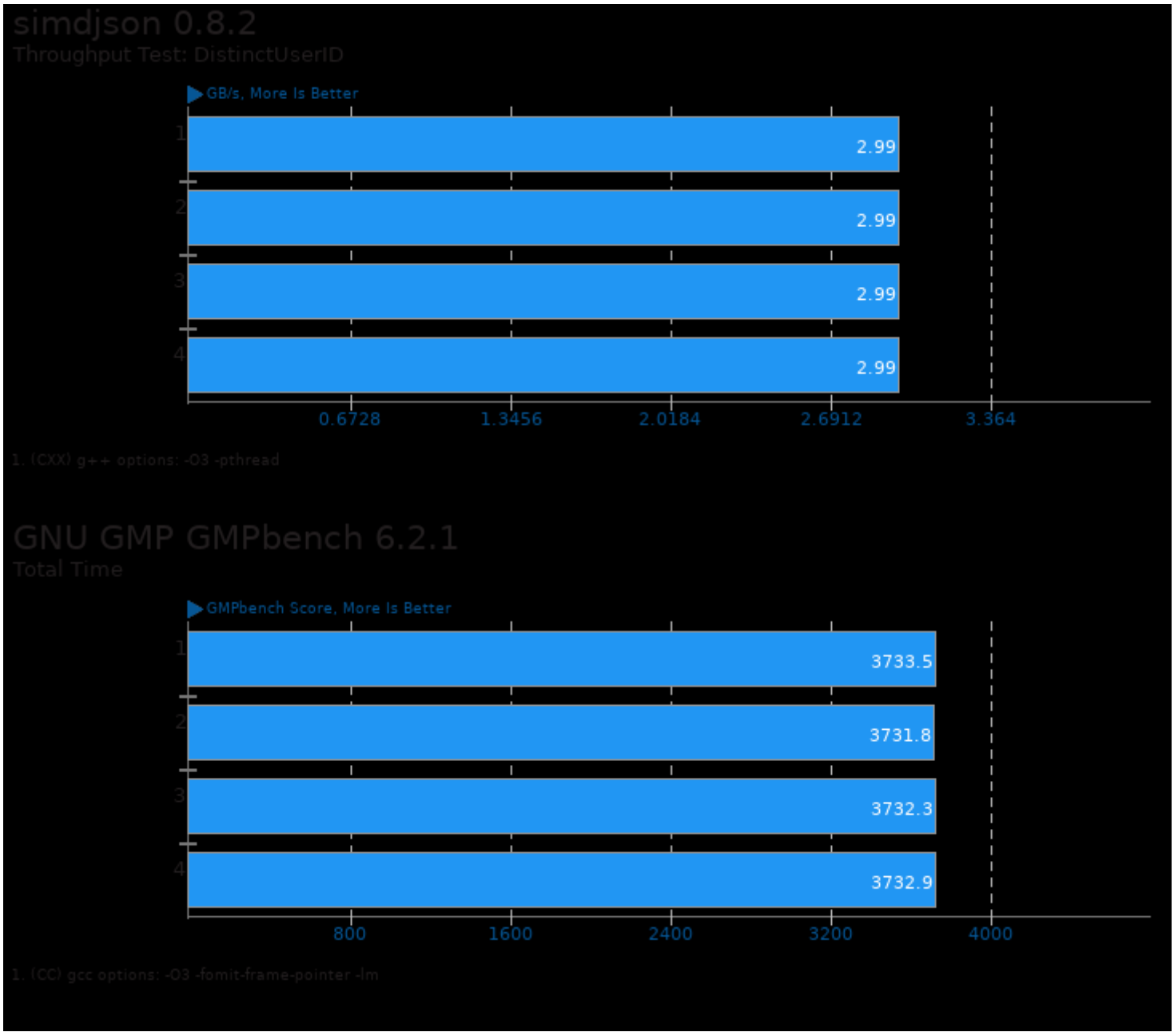
1235L EO March

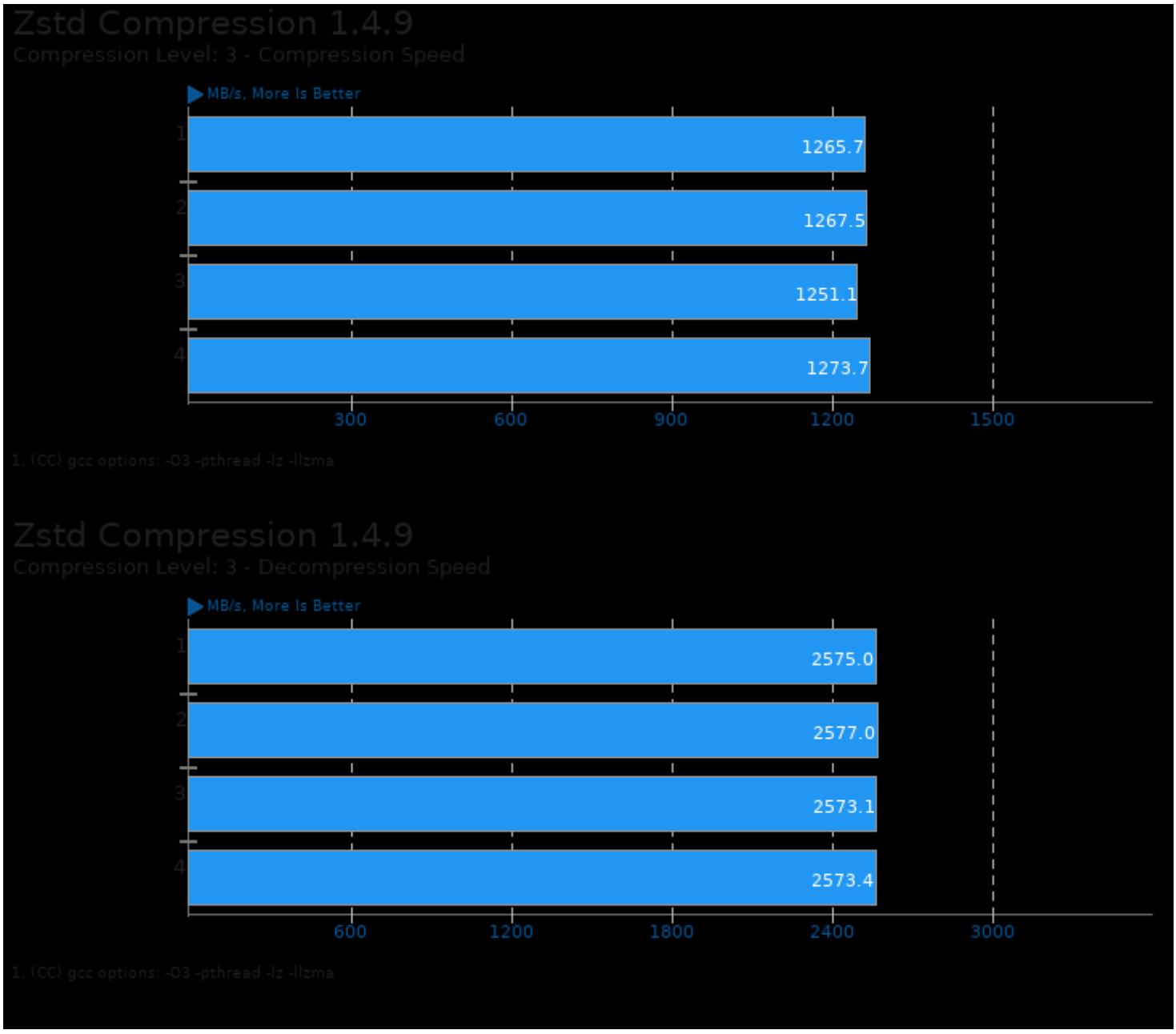


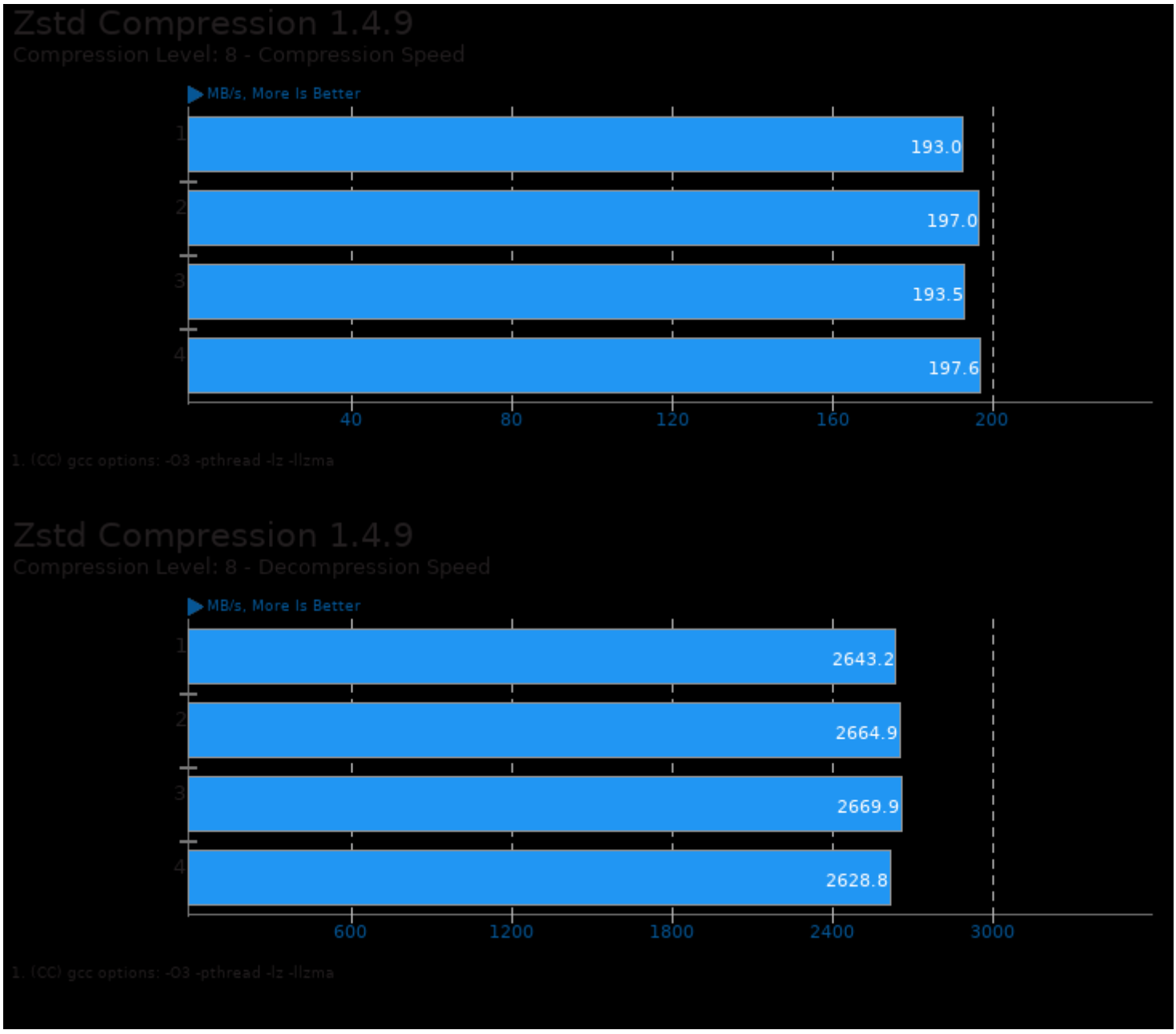

Xcompact3d Incompact3d 2021-03-11
Input: input.i3d 193 Cells Per Direction
Seconds, Fewer Is Better
1
230.30
2
229.89
3
229.38
4
230.19
50
100
150
200
250
1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi
simdjson 0.8.2
Throughput Test: Kostya
GB/s, More Is Better
1
1.86
2
1.87
3
1.87
4
1.86
0.4208
0.8416
1.2624
1.6832
2.104
1. (CXX) g++ options: -O3 -pthread

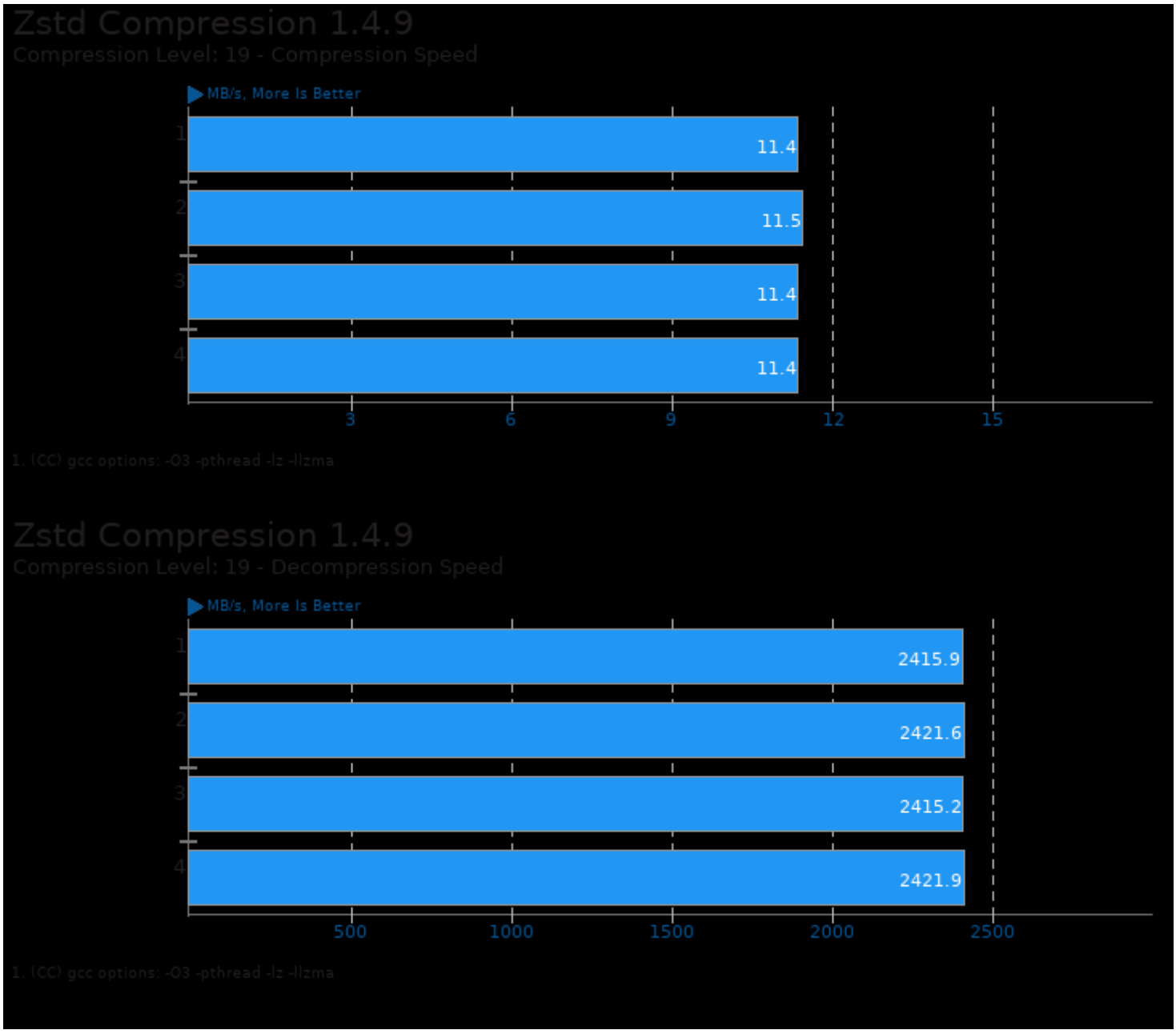
1235L EO March

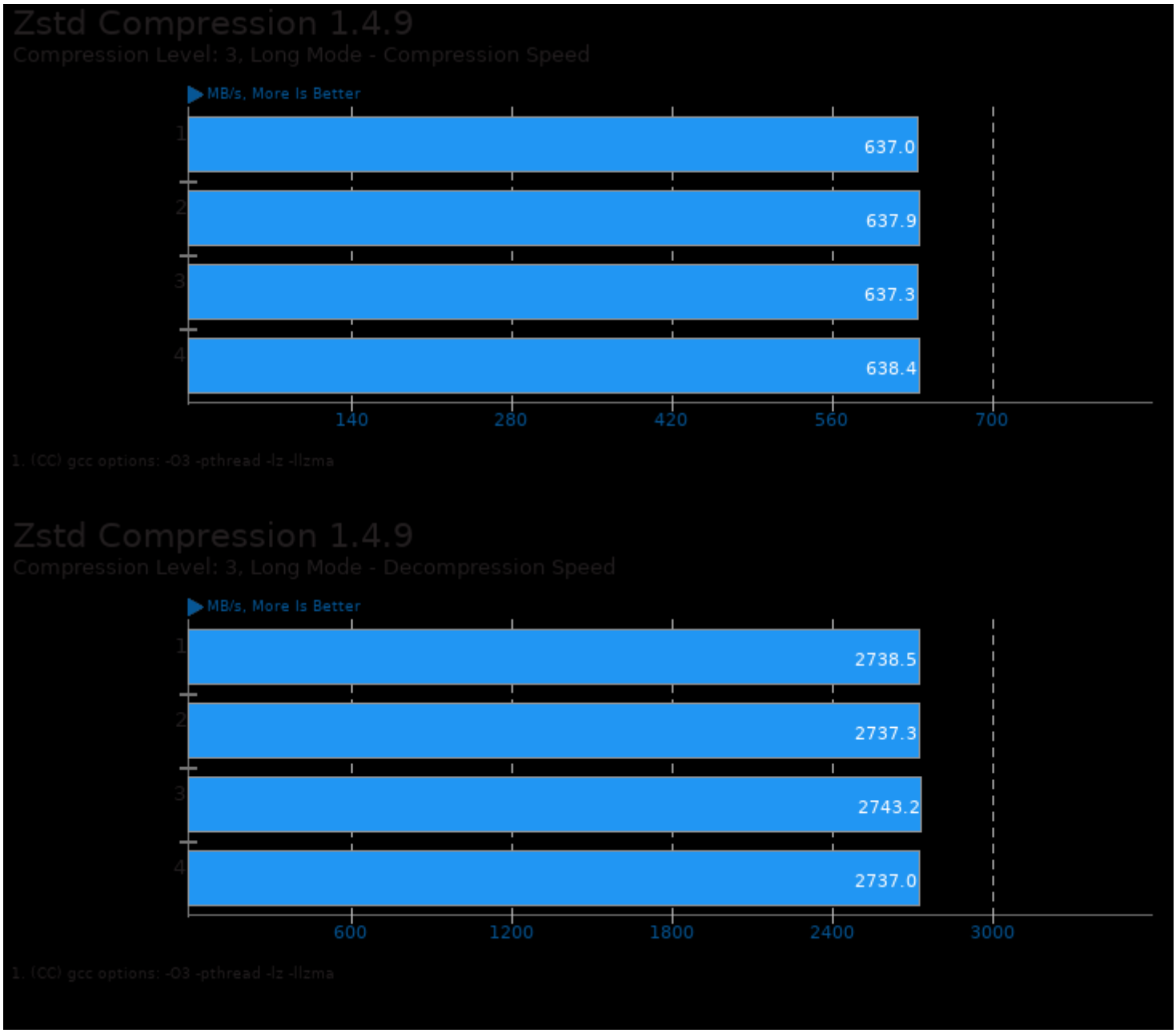


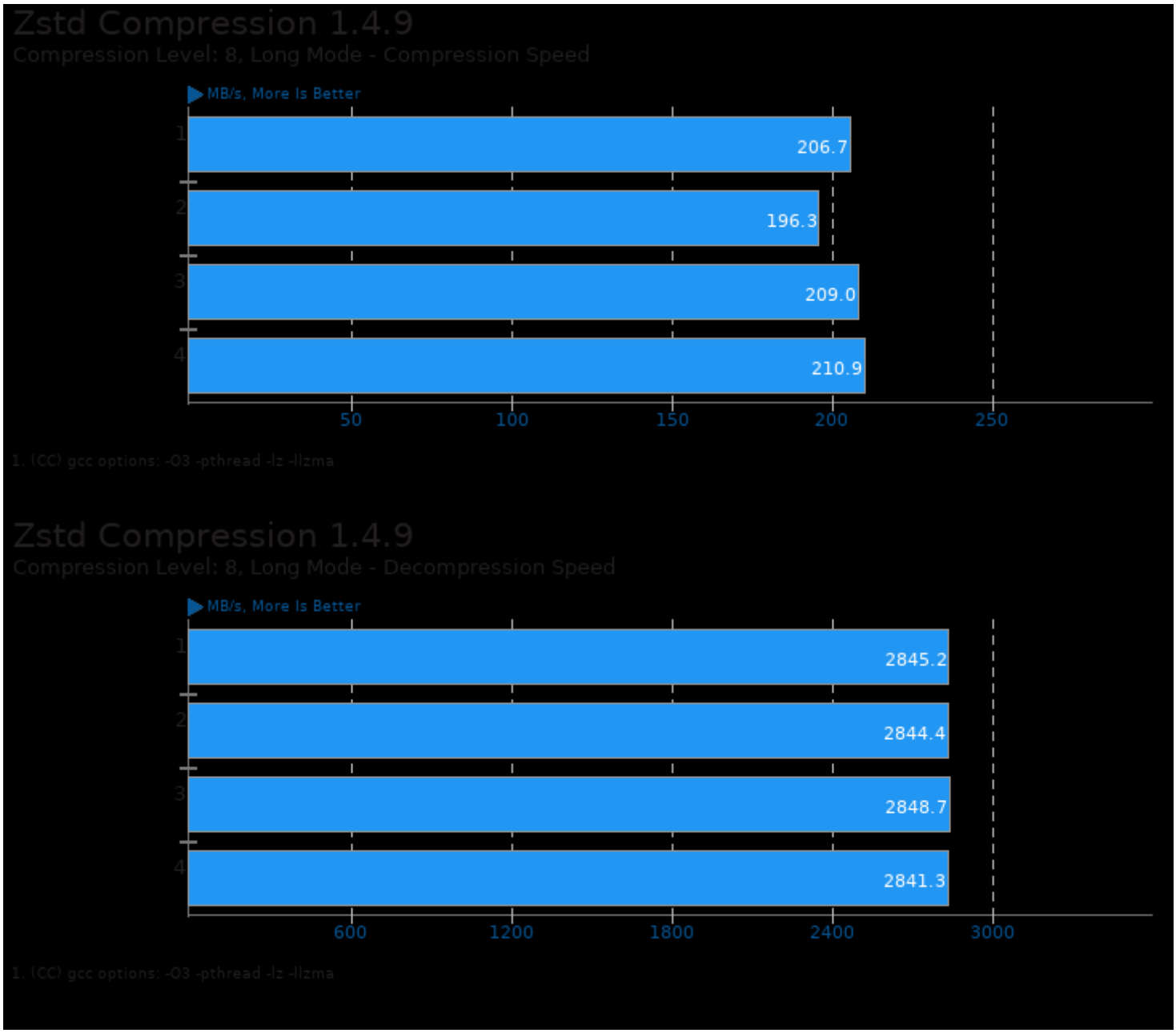

simdjson 0.8.2
Throughput Test: DistinctUserID
GB/s, More Is Better
1
2.99
2
2.99
3
2.99
4
2.99
0.6728
1.3456
2.0184
2.6912
3.364
1. (CXX) g++ options: -O3 -pthread
GNU GMP GMPbench 6.2.1
Total Time
GMPbench Score, More Is Better
1
3733.5
2
3731.8
3
3732.3
4
3732.9
800
1600
2400
3200
4000
1. (CC) gcc options: -O3 -fomit-frame-pointer -lm

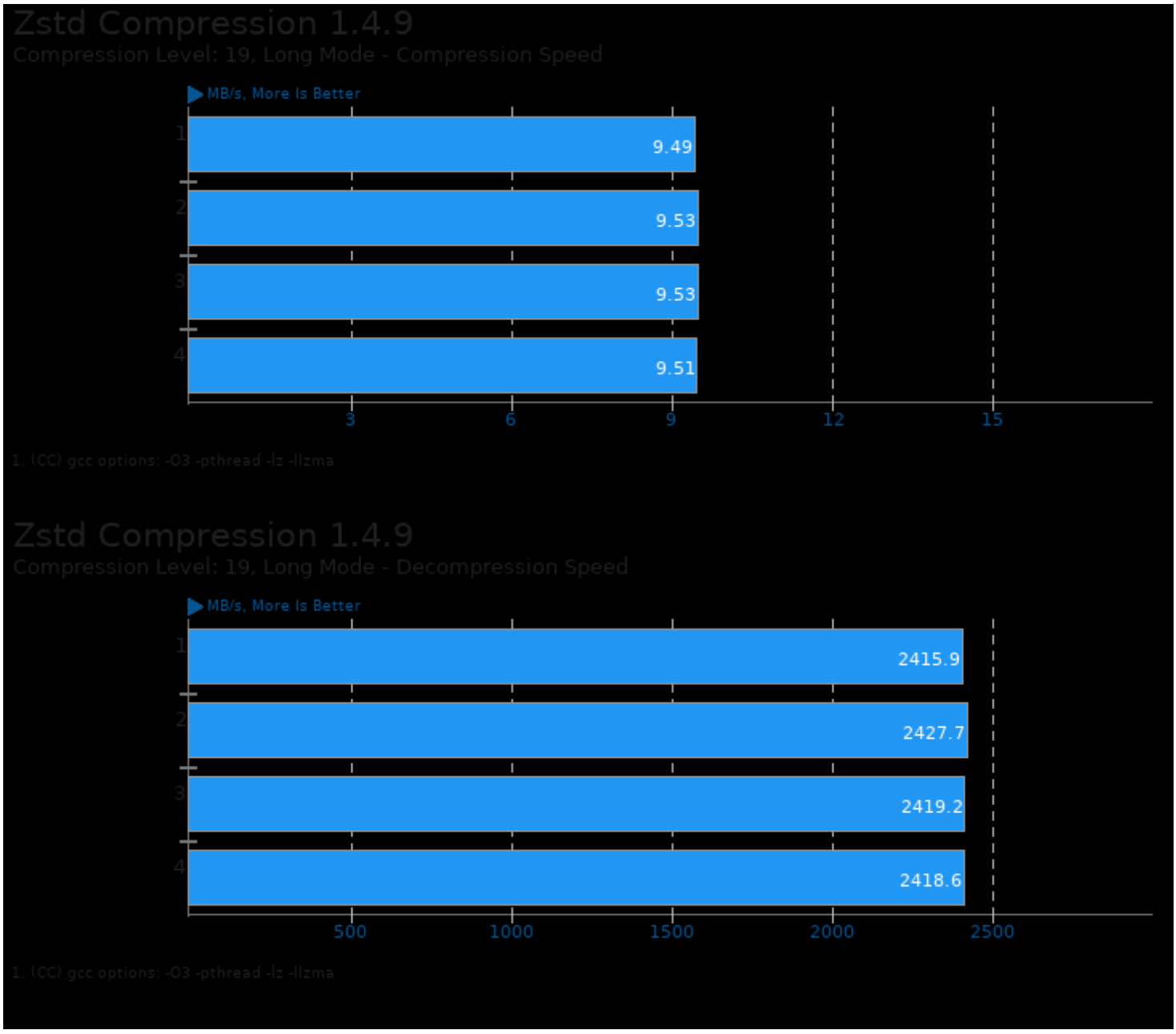

Zstd Compression 1.4.9
Compression Level: 3 - Compression Speed
MB/s, More Is Better
1
2
3
4
1265.7
1267.5
1251.1
1273.7
300
600
900
1200
1500
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.4.9
Compression Level: 3 - Decompression Speed
MB/s, More Is Better
1
2
3
4
2575.0
2577.0
2573.1
2573.4
600
1200
1800
2400
3000
1. (CC) gcc options: -O3 -pthread -lz -llzma


Zstd Compression 1.4.9
Compression Level: 8 - Compression Speed
MB/s, More Is Better
1
2
3
4
193.0
197.0
193.5
197.6
40
80
120
160
200
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.4.9
Compression Level: 8 - Decompression Speed
MB/s, More Is Better
1
2
3
4
2643.2
2664.9
2669.9
2628.8
600
1200
1800
2400
3000
1. (CC) gcc options: -O3 -pthread -lz -llzma

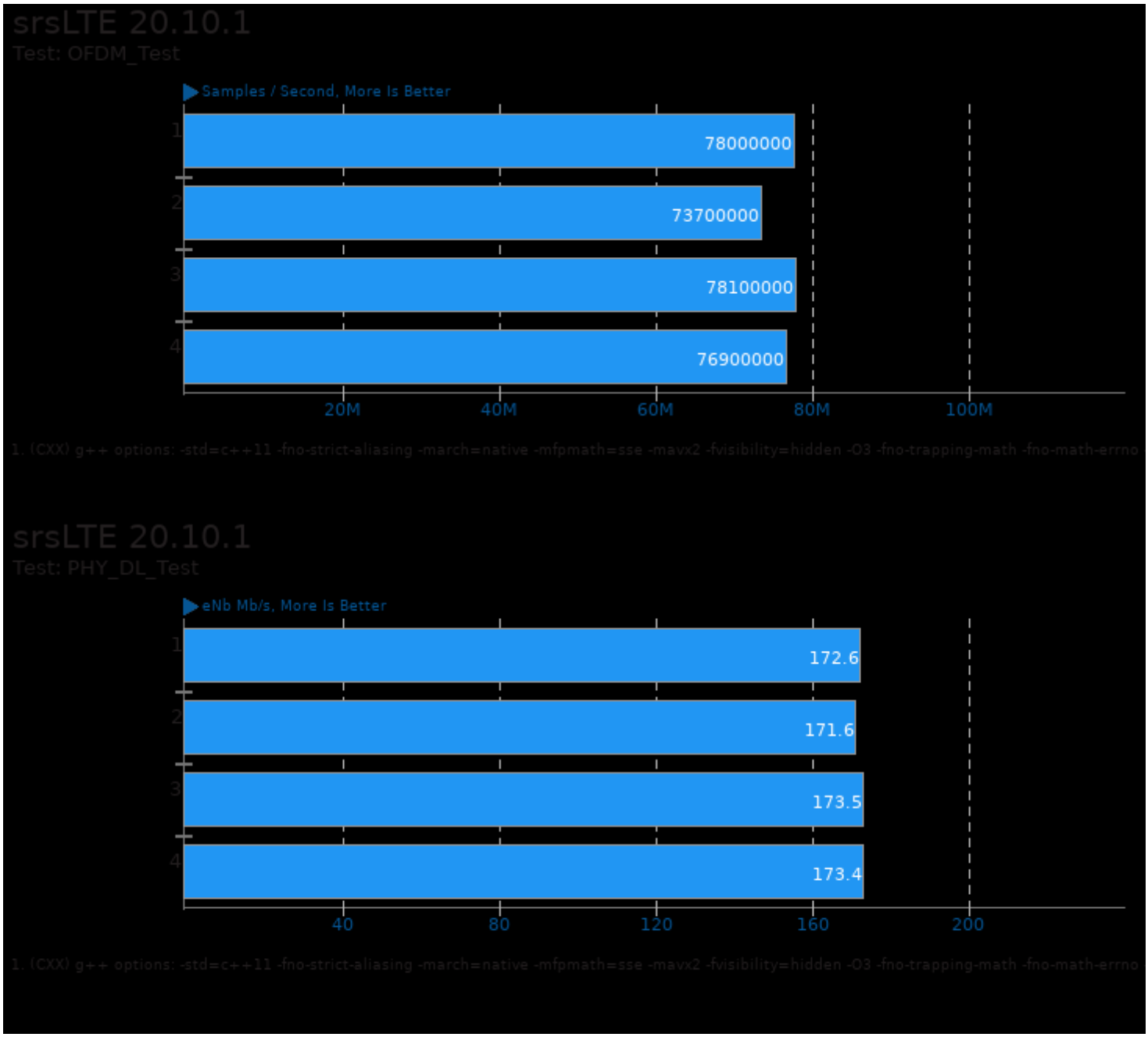

Zstd Compression 1.4.9
Compression Level: 19 - Compression Speed
MB/s, More Is Better
1
2
3
4
11.4
11.5
11.4
11.4
3
6
9
12
15
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.4.9
Compression Level: 19 - Decompression Speed
MB/s, More Is Better
1
2
3
4
2415.9
2421.6
2415.2
2421.9
500
1000
1500
2000
2500
1. (CC) gcc options: -O3 -pthread -lz -llzma


Zstd Compression 1.4.9
Compression Level: 3, Long Mode - Compression Speed
MB/s, More Is Better
1
637.0
2
637.9
3
637.3
4
638.4
140
280
420
560
700
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.4.9
Compression Level: 3, Long Mode - Decompression Speed
MB/s, More Is Better
1
2738.5
2
2737.3
3
2743.2
4
2737.0
600
1200
1800
2400
3000
1. (CC) gcc options: -O3 -pthread -lz -llzma

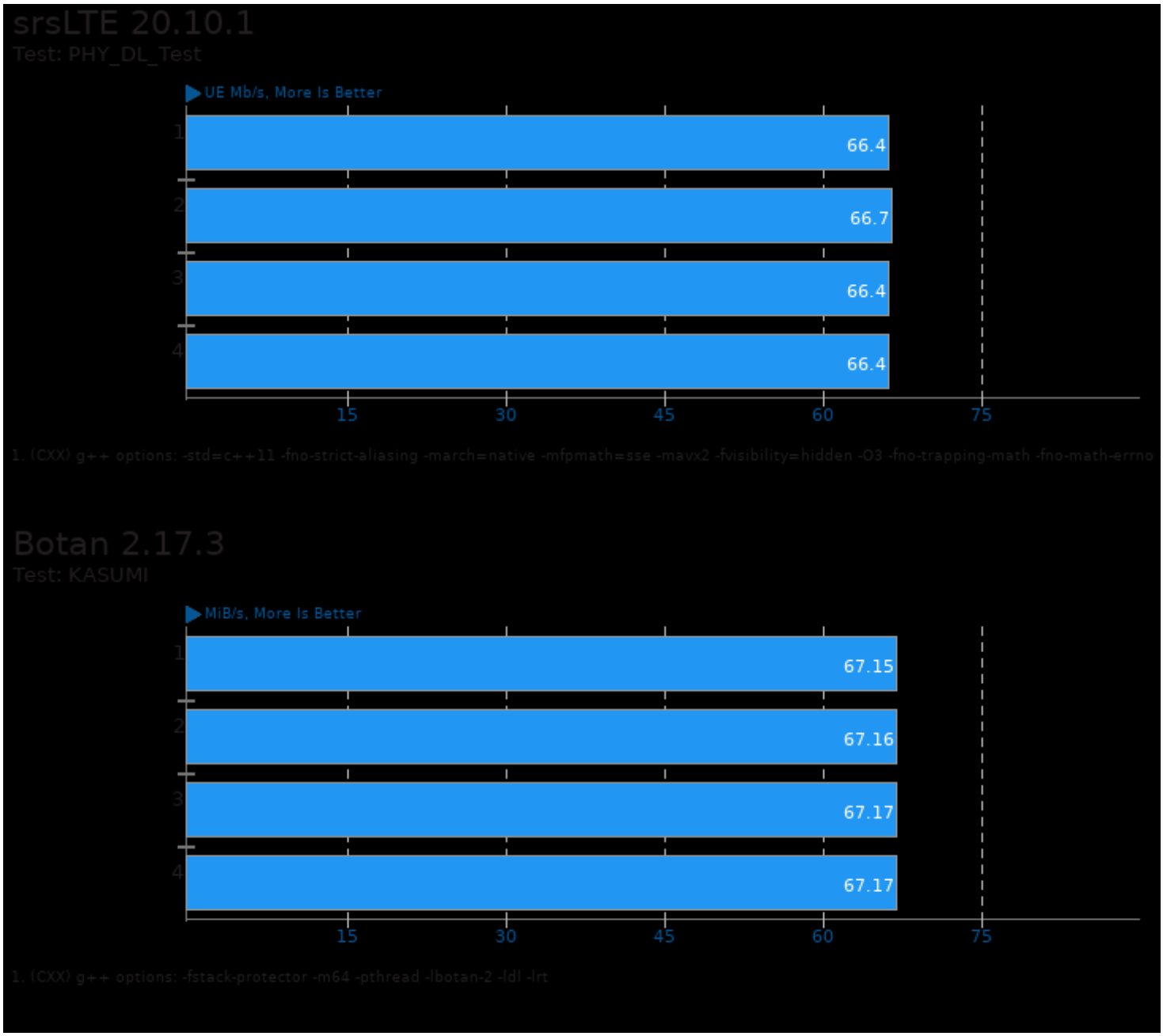

Zstd Compression 1.4.9
Compression Level: 8, Long Mode - Compression Speed
MB/s, More Is Better
1
206.7
2
196.3
3
209.0
4
210.9
50
100
150
200
250
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.4.9
Compression Level: 8, Long Mode - Decompression Speed
MB/s, More Is Better
1
2845.2
2
2844.4
3
2848.7
4
2841.3
600
1200
1800
2400
3000
1. (CC) gcc options: -O3 -pthread -lz -llzma

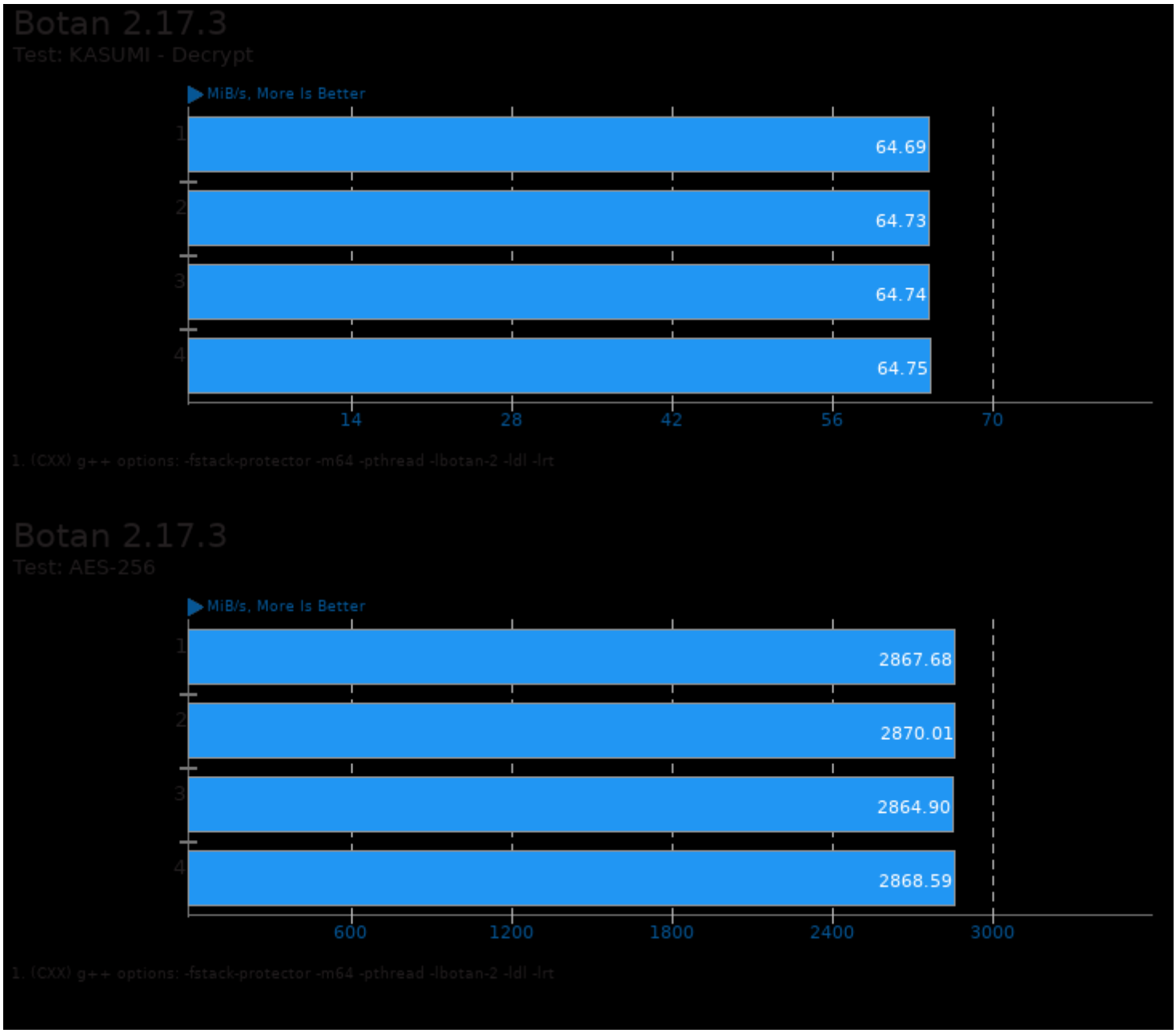

Zstd Compression 1.4.9
Compression Level: 19, Long Mode - Compression Speed
MB/s, More Is Better
1
2
3
4
9.49
9.53
9.53
9.51
3
6
9
12
15
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.4.9
Compression Level: 19, Long Mode - Decompression Speed
MB/s, More Is Better
1
2
3
4
2415.9
2427.7
2419.2
2418.6
500
1000
1500
2000
2500
1. (CC) gcc options: -O3 -pthread -lz -llzma

1235L EO March

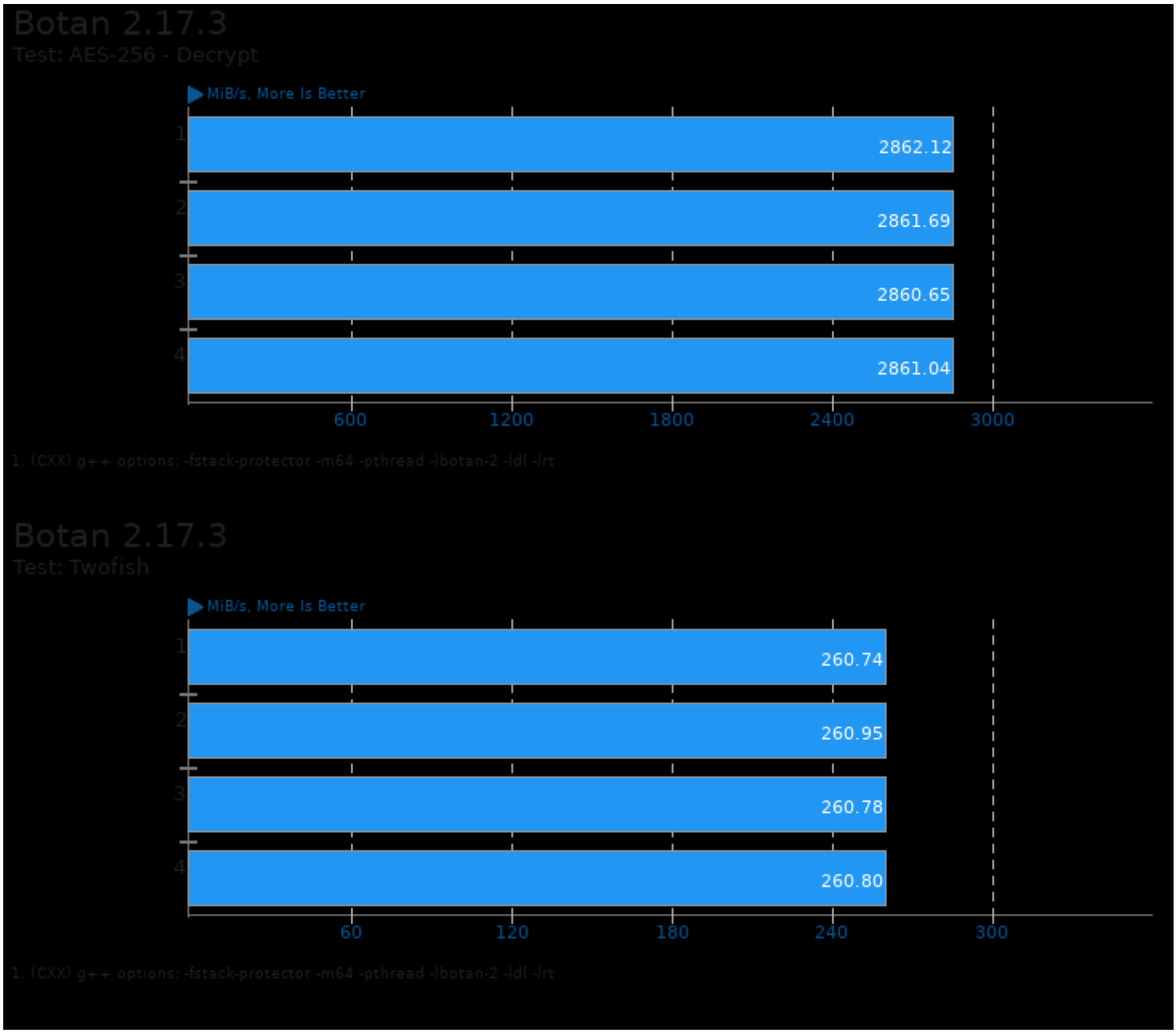


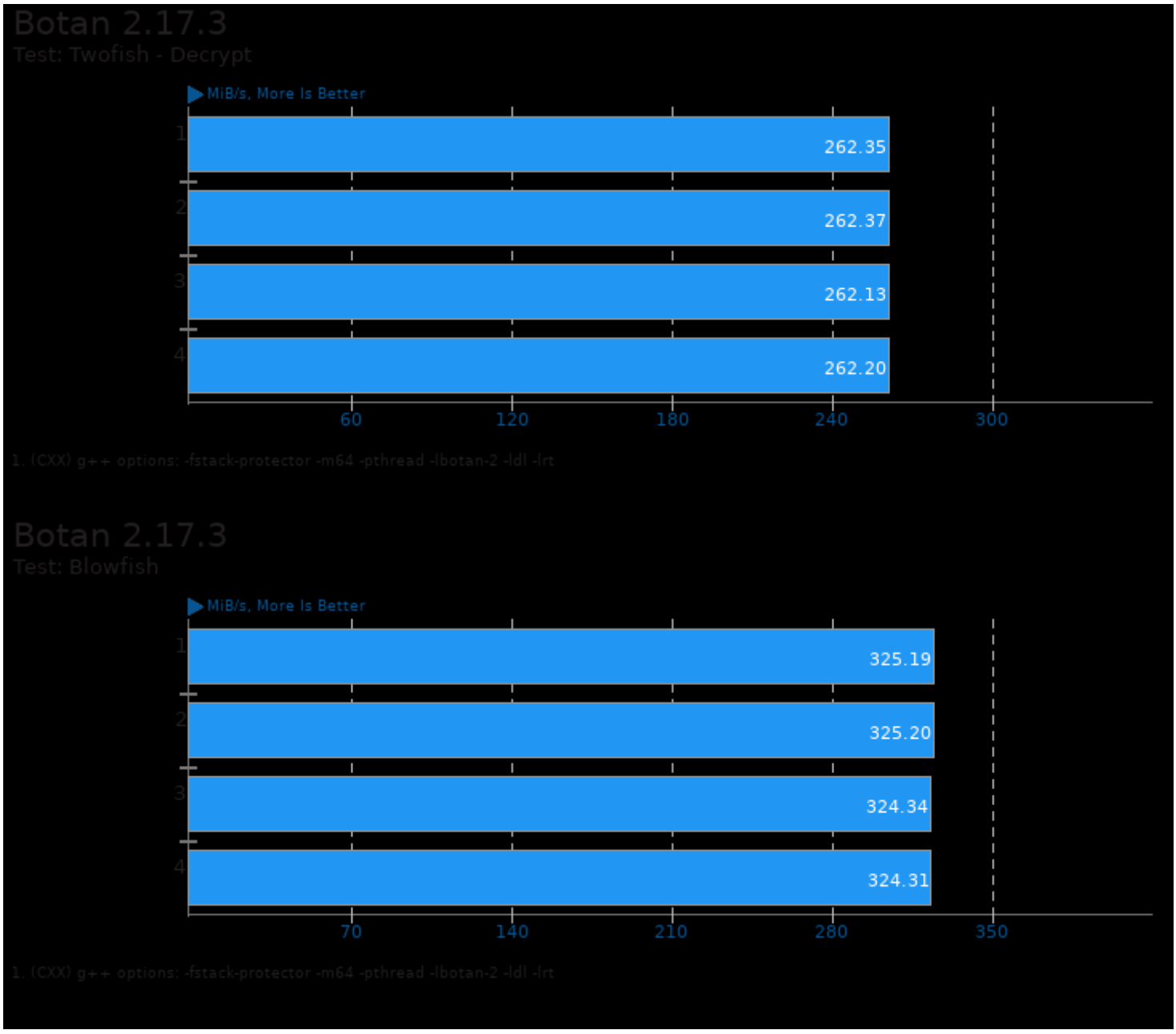
1235L EO March



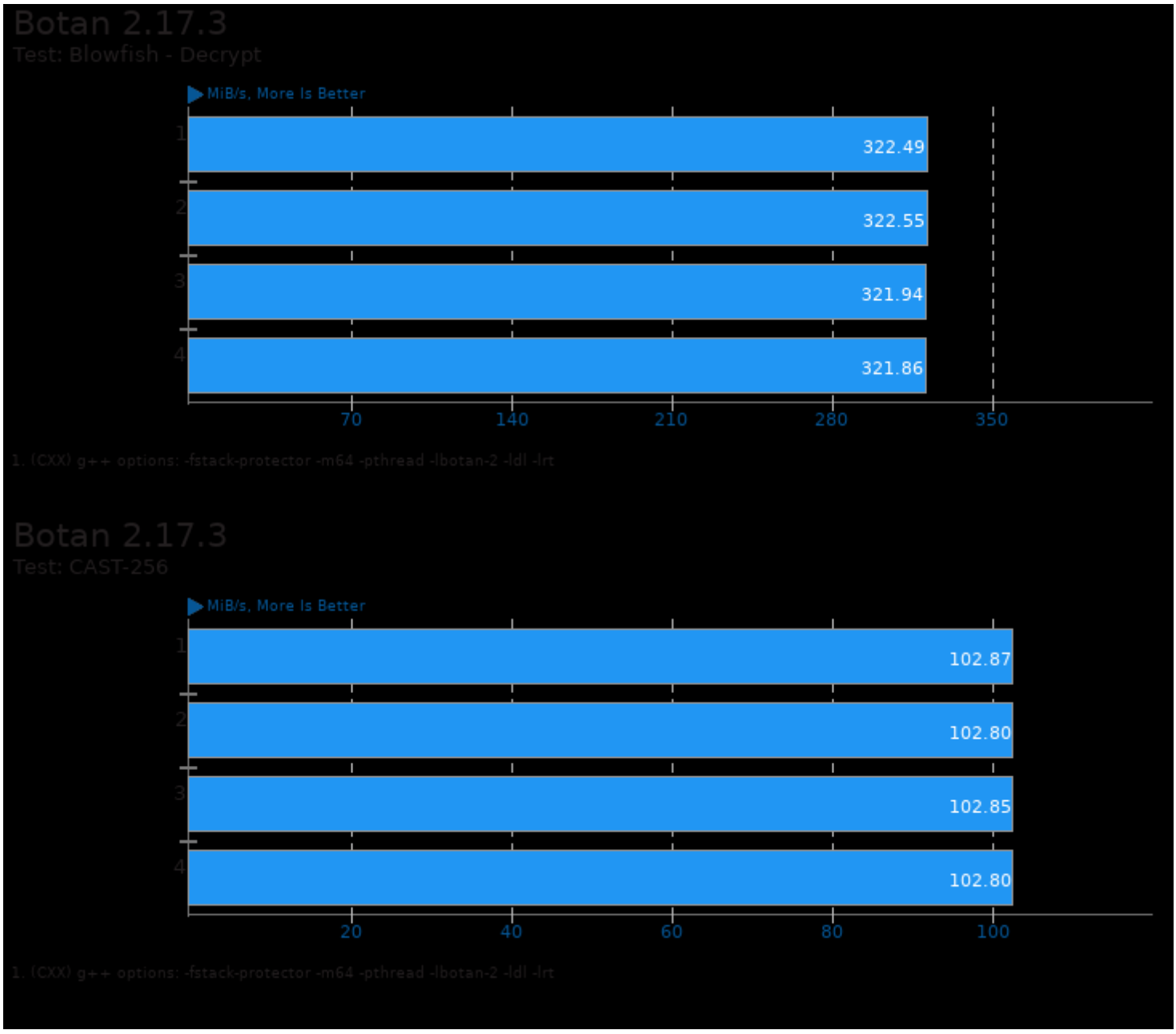

Botan 2.17.3
Test: KASUMI - Decrypt
MiB/s, More Is Better
1
64.69
2
64.73
3
64.74
4
64.75
14
28
42
56
70
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt
Botan 2.17.3
Test: AES-256
MiB/s, More Is Better
1
2867.68
2
2870.01
3
2864.90
4
2868.59
600
1200
1800
2400
3000
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

1235L EO March

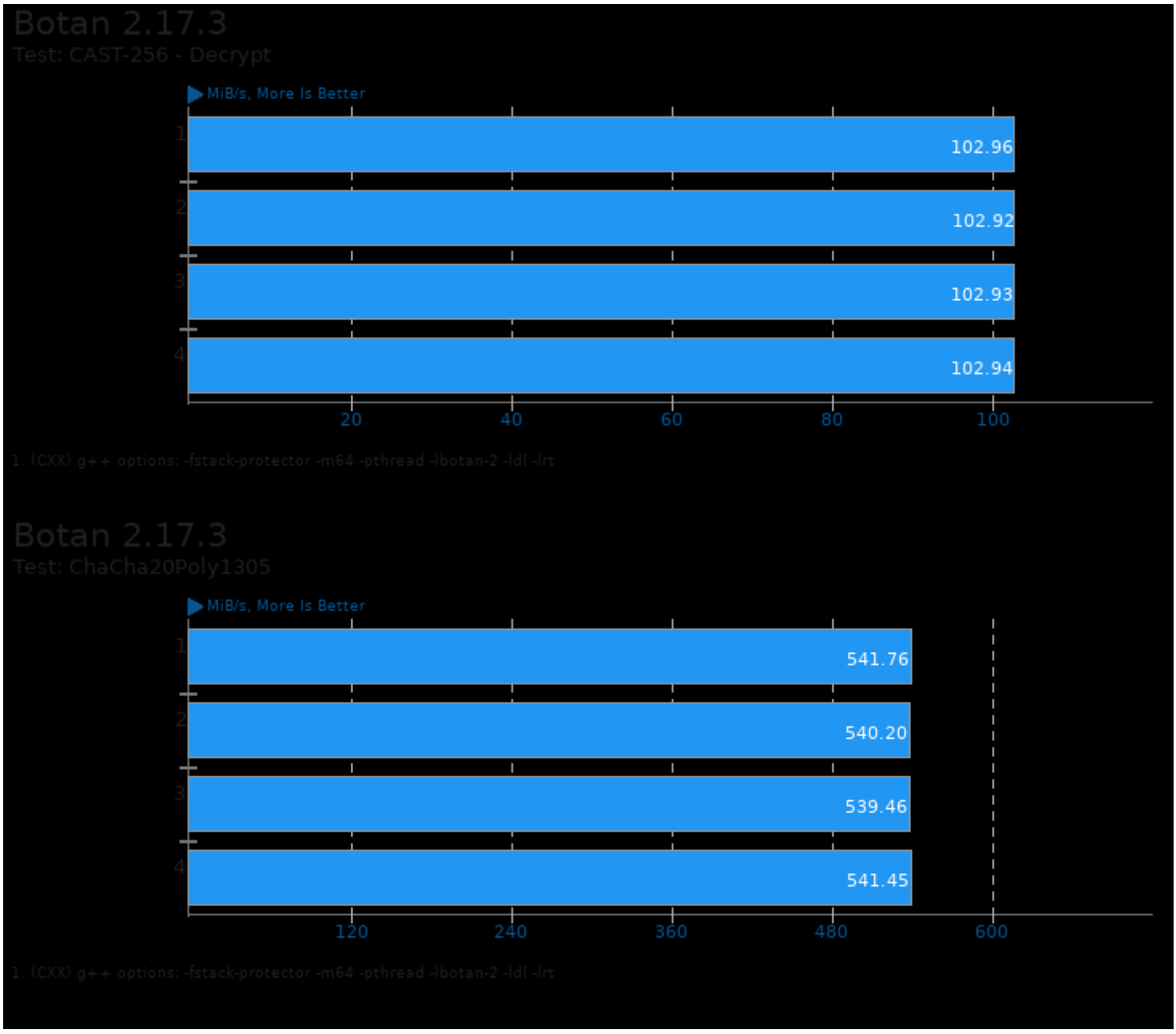



Botan 2.17.3
Test: Twofish - Decrypt
MiB/s, More Is Better
1
262.35
2
262.37
3
262.13
4
262.20
60
120
180
240
300
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt
Botan 2.17.3
Test: Blowfish
MiB/s, More Is Better
1
325.19
2
325.20
3
324.34
4
324.31
70
140
210
280
350
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

1235L EO March

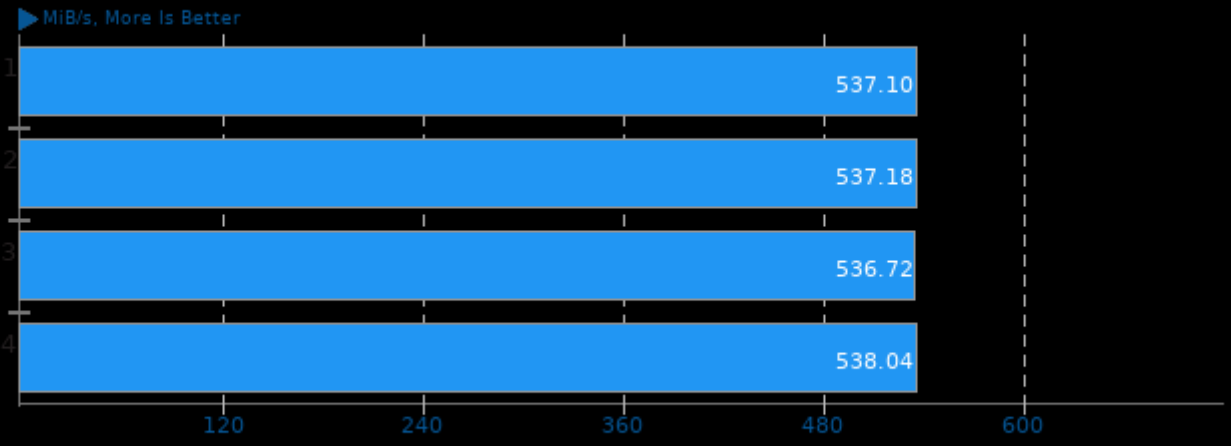


1235L EO March



Botan 2.17.3

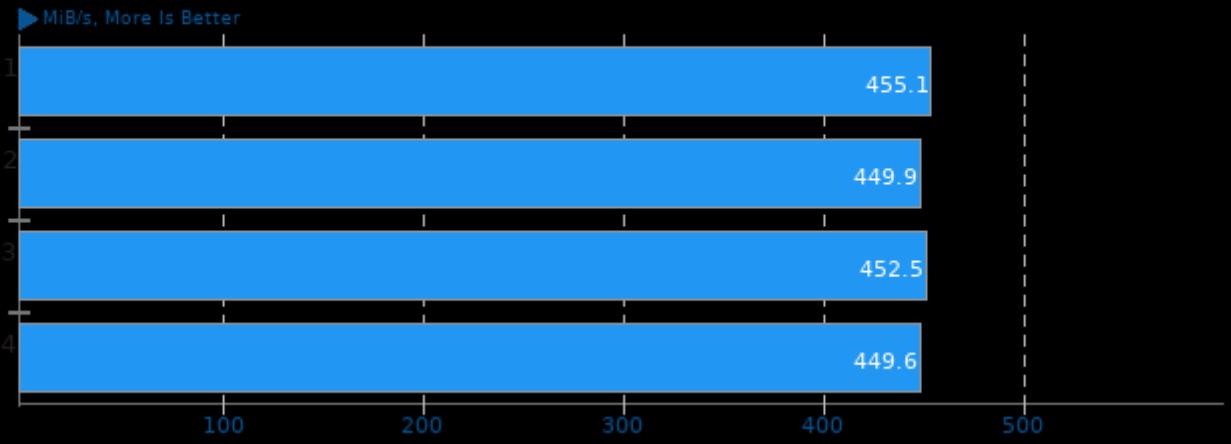
Test: ChaCha20Poly1305 - Decrypt



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

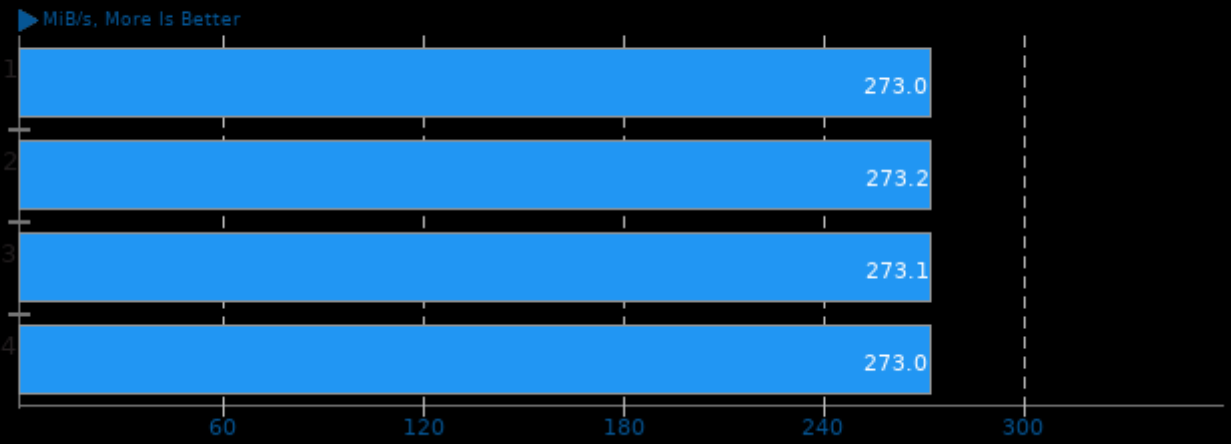
LuaRadio 0.9.1

Test: Five Back to Back FIR Filters



LuaRadio 0.9.1

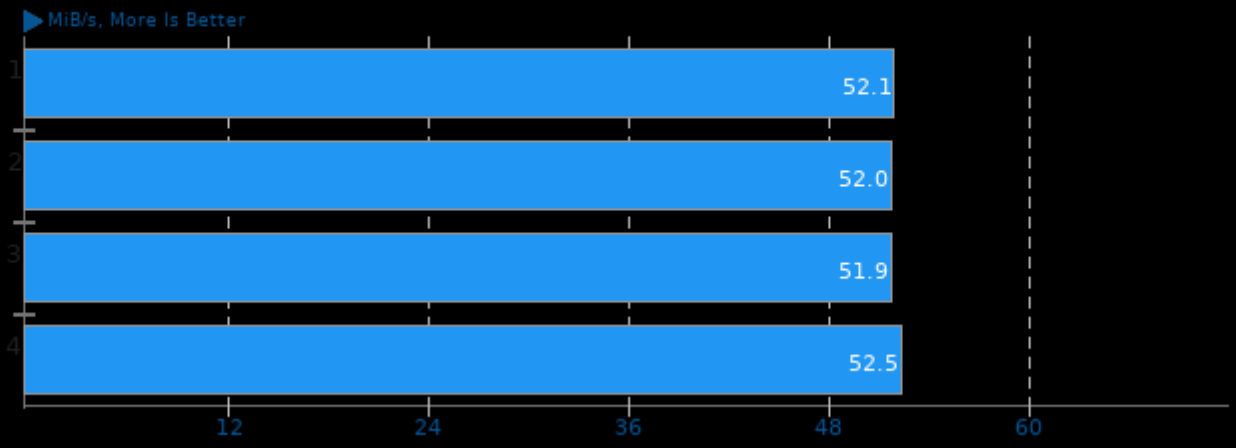
Test: FM Deemphasis Filter



1235L EO March

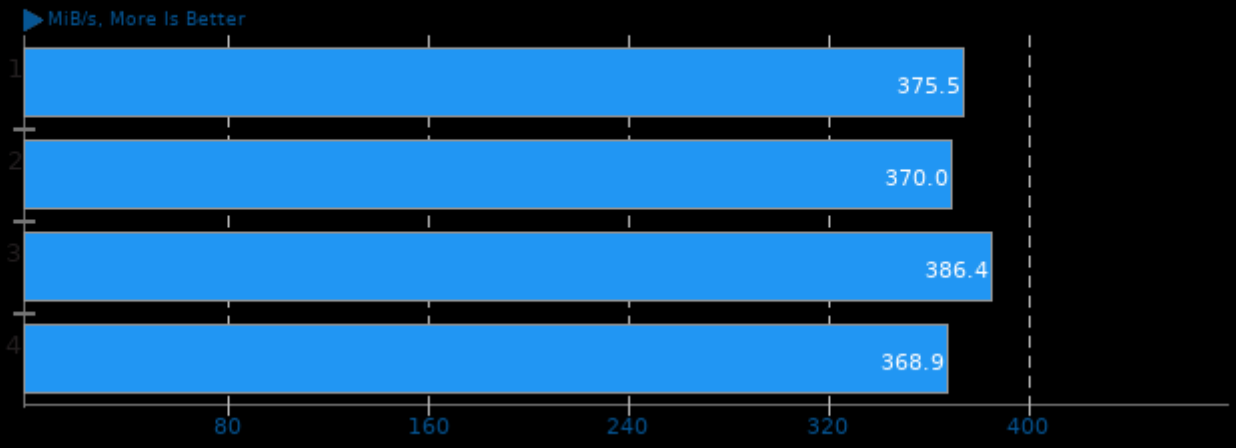
LuaRadio 0.9.1

Test: Hilbert Transform



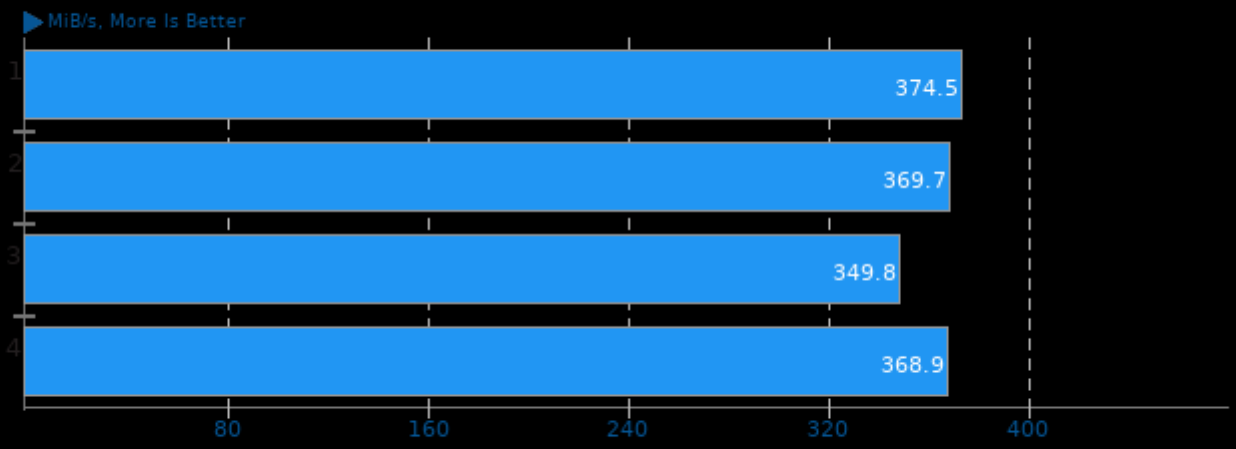
LuaRadio 0.9.1

Test: Complex Phase



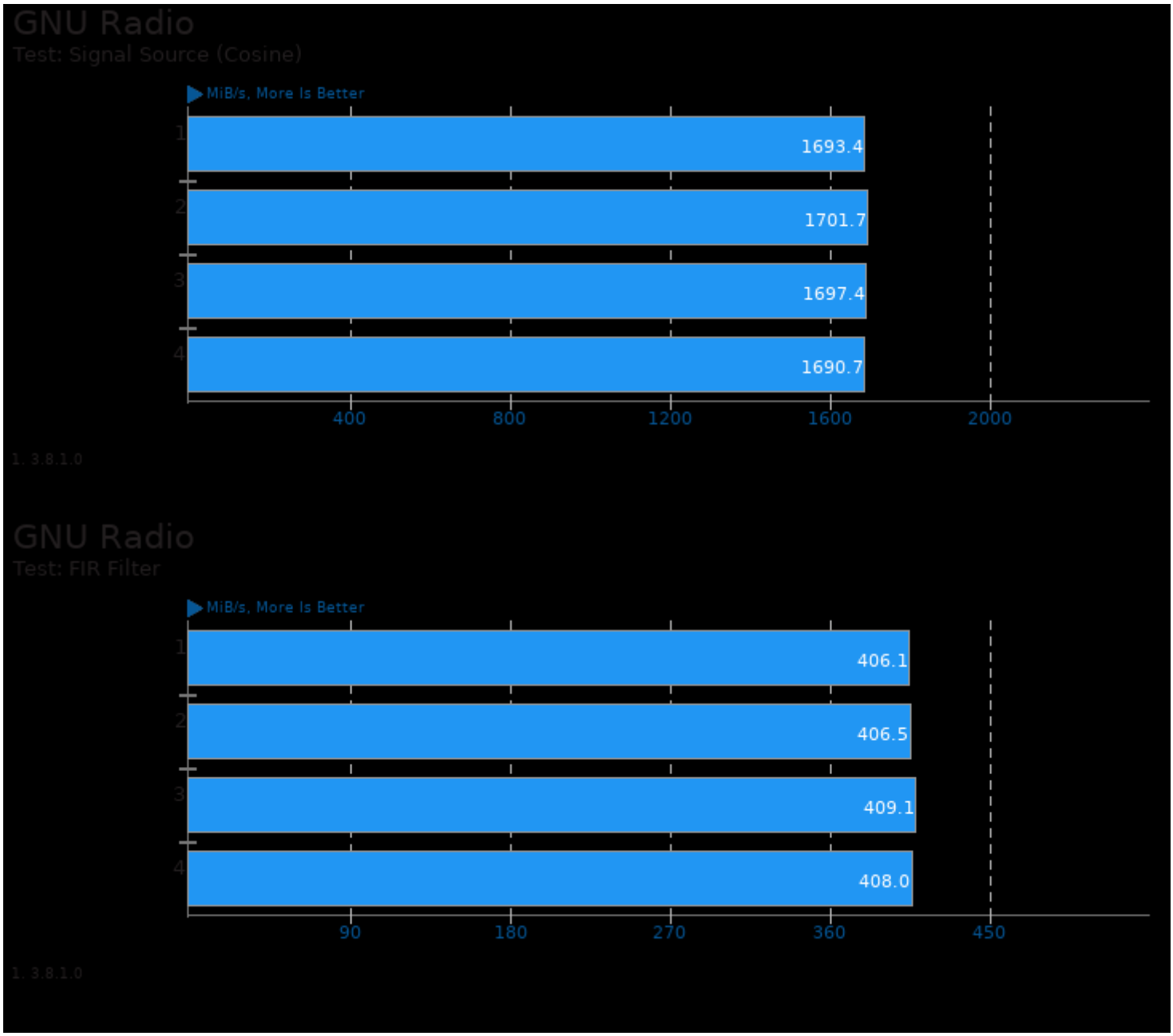
GNU Radio

Test: Five Back to Back FIR Filters

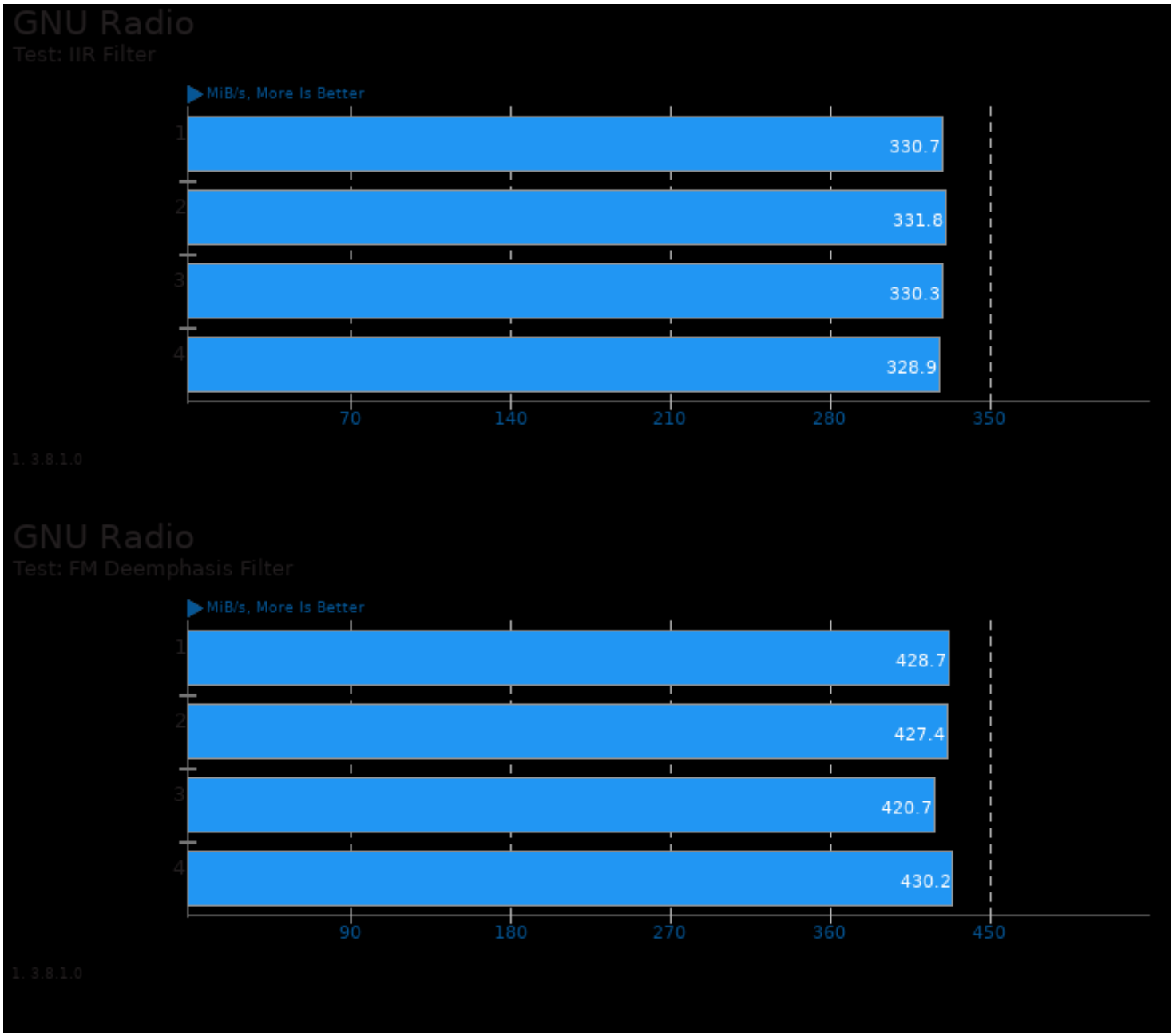


1. 3.8.1.0

1235L EO March



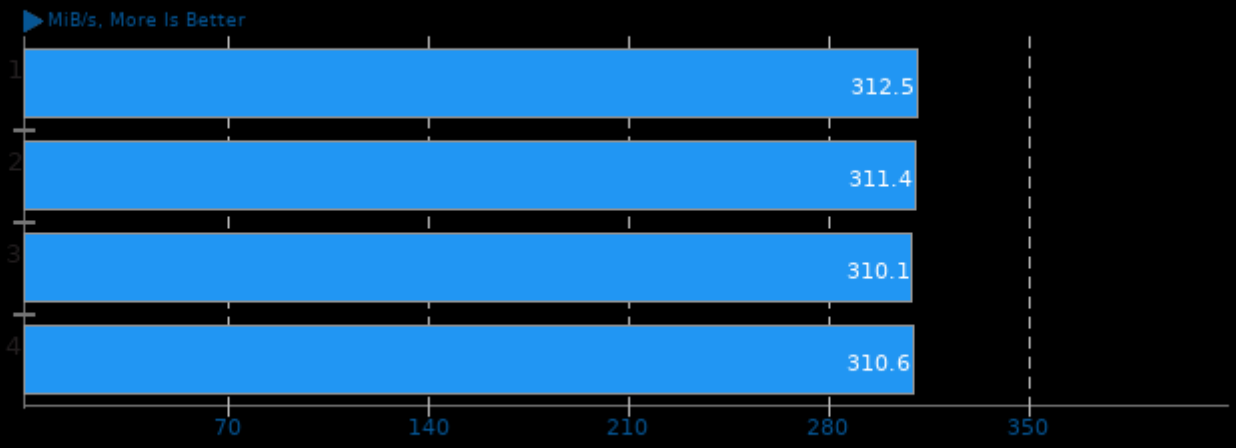
1235L EO March



1235L EO March

GNU Radio

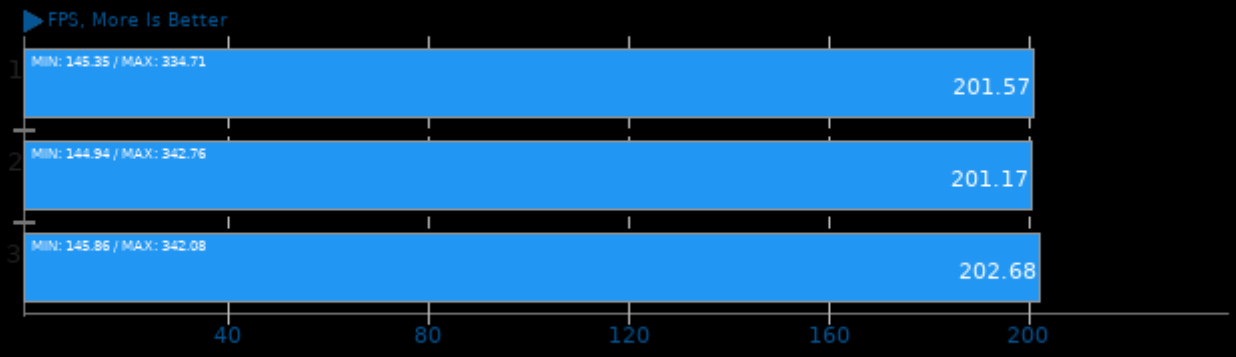
Test: Hilbert Transform



1. 3.8.1.0

dav1d 0.8.2

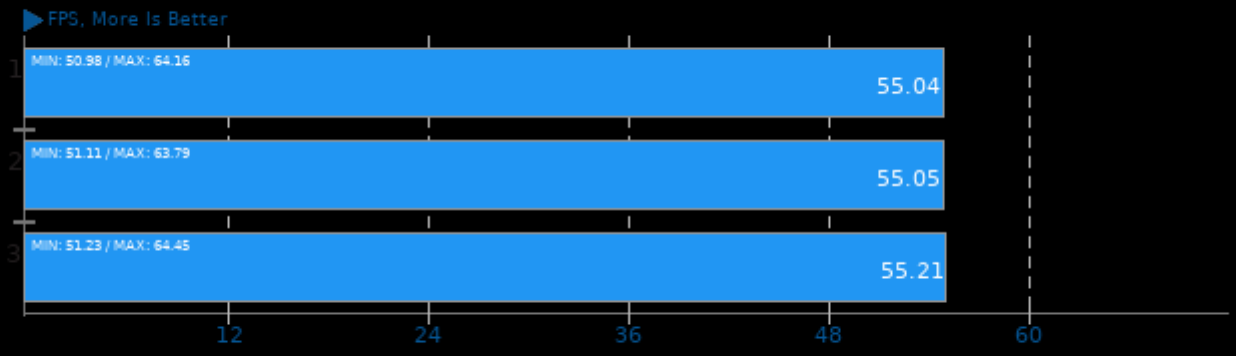
Video Input: Chimera 1080p



1. (CC) gcc options: -pthread -lm

dav1d 0.8.2

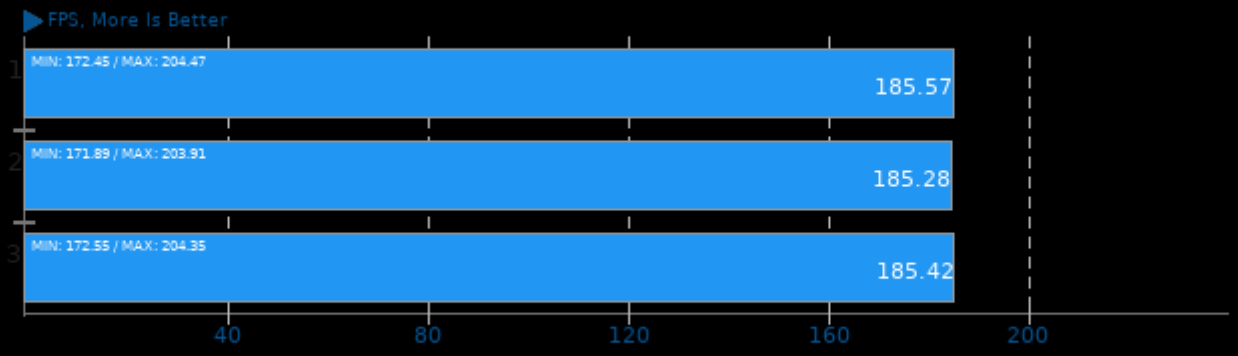
Video Input: Summer Nature 4K



1. (CC) gcc options: -pthread -lm

dav1d 0.8.2

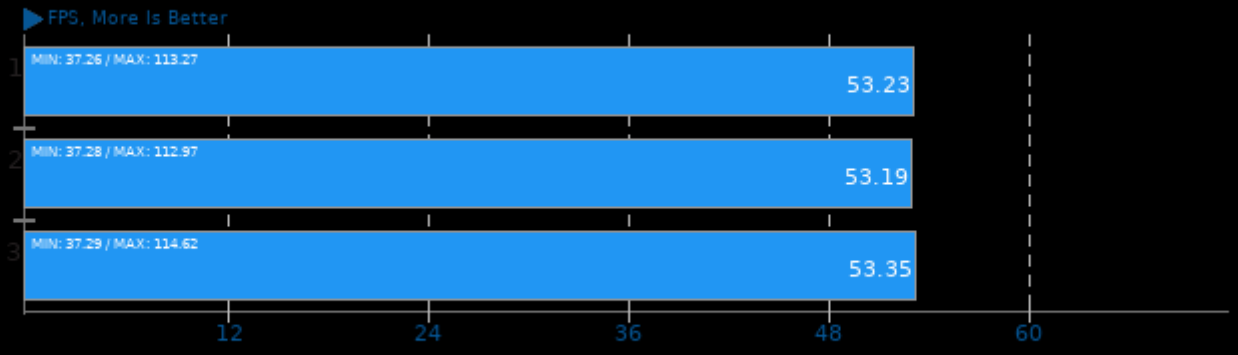
Video Input: Summer Nature 1080p



1. (CC) gcc options: -pthread -lm

dav1d 0.8.2

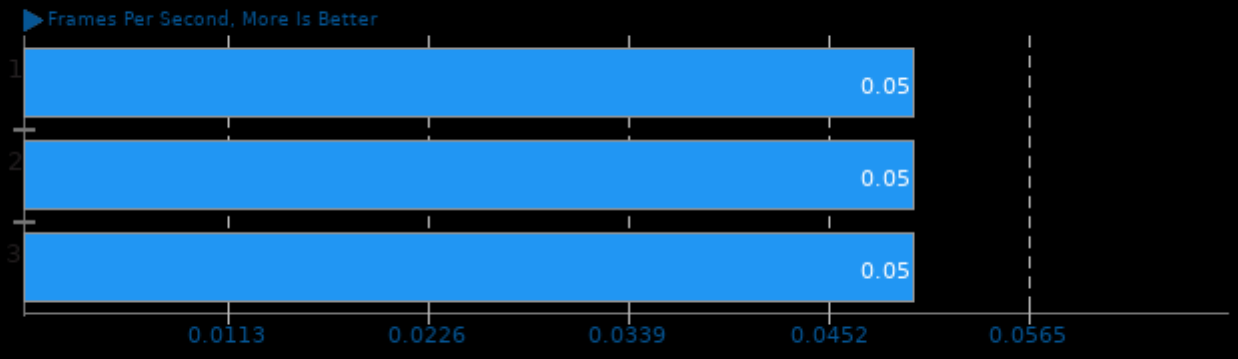
Video Input: Chimera 1080p 10-bit



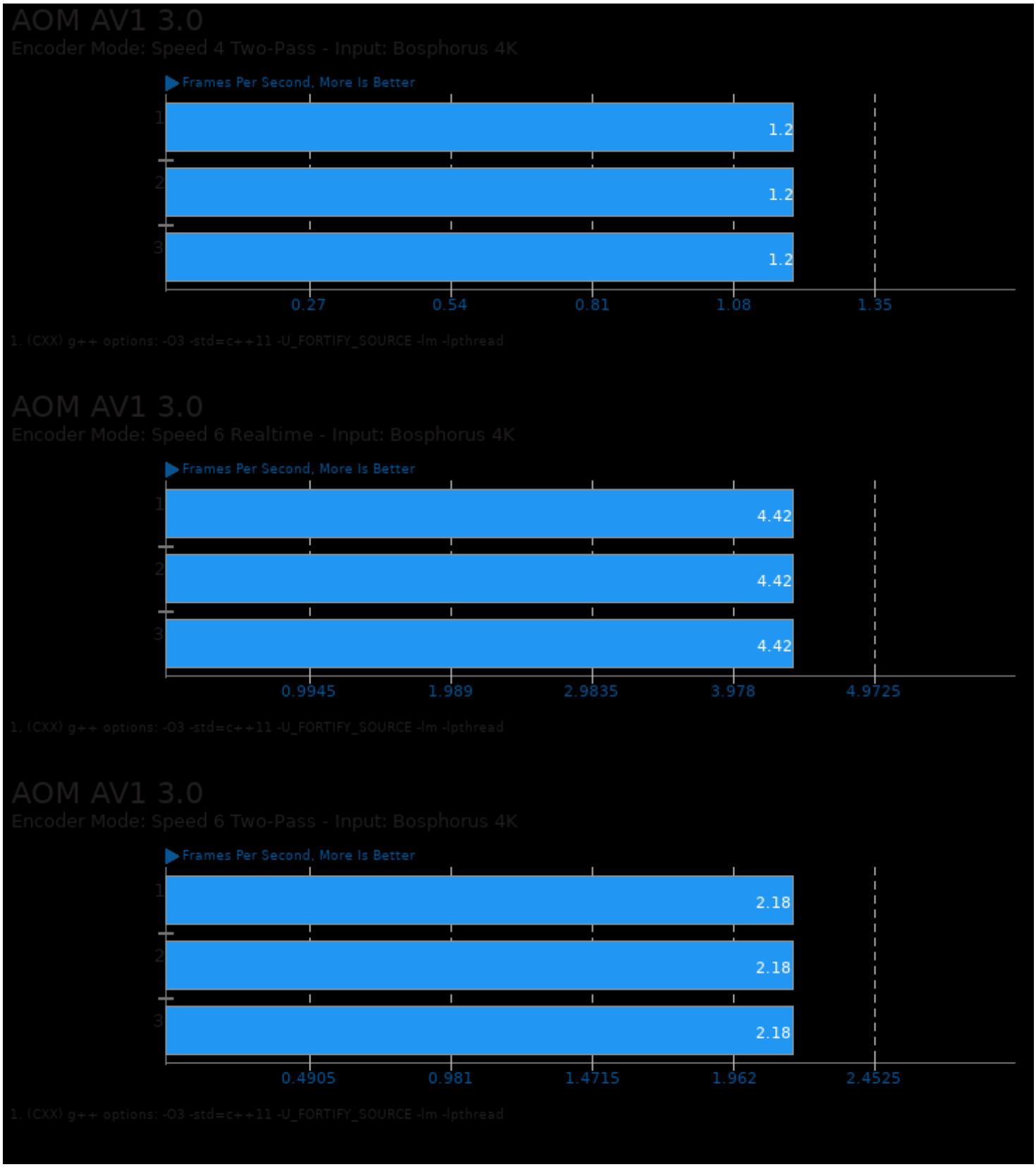
1. (CC) gcc options: -pthread -lm

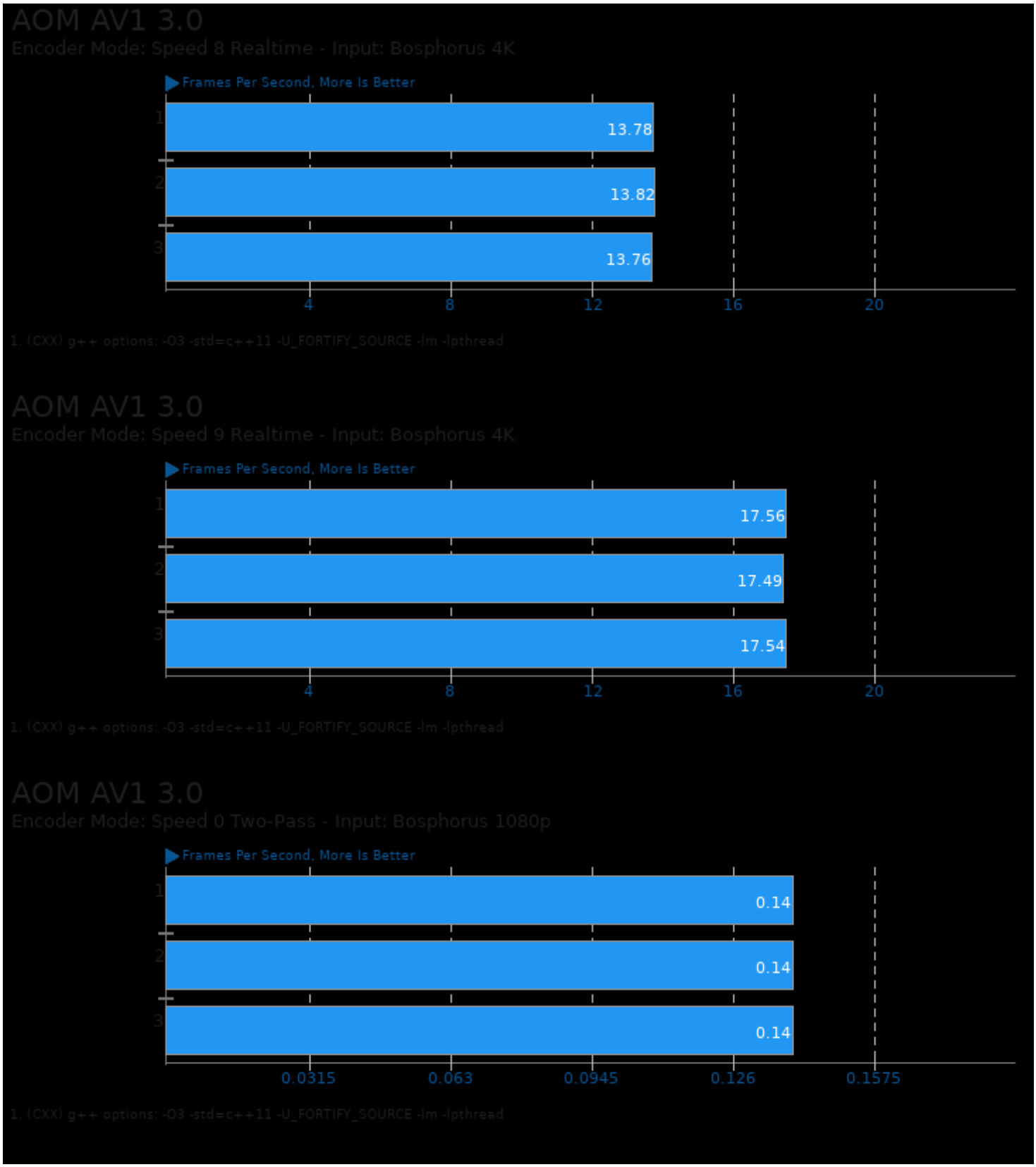
AOM AV1 3.0

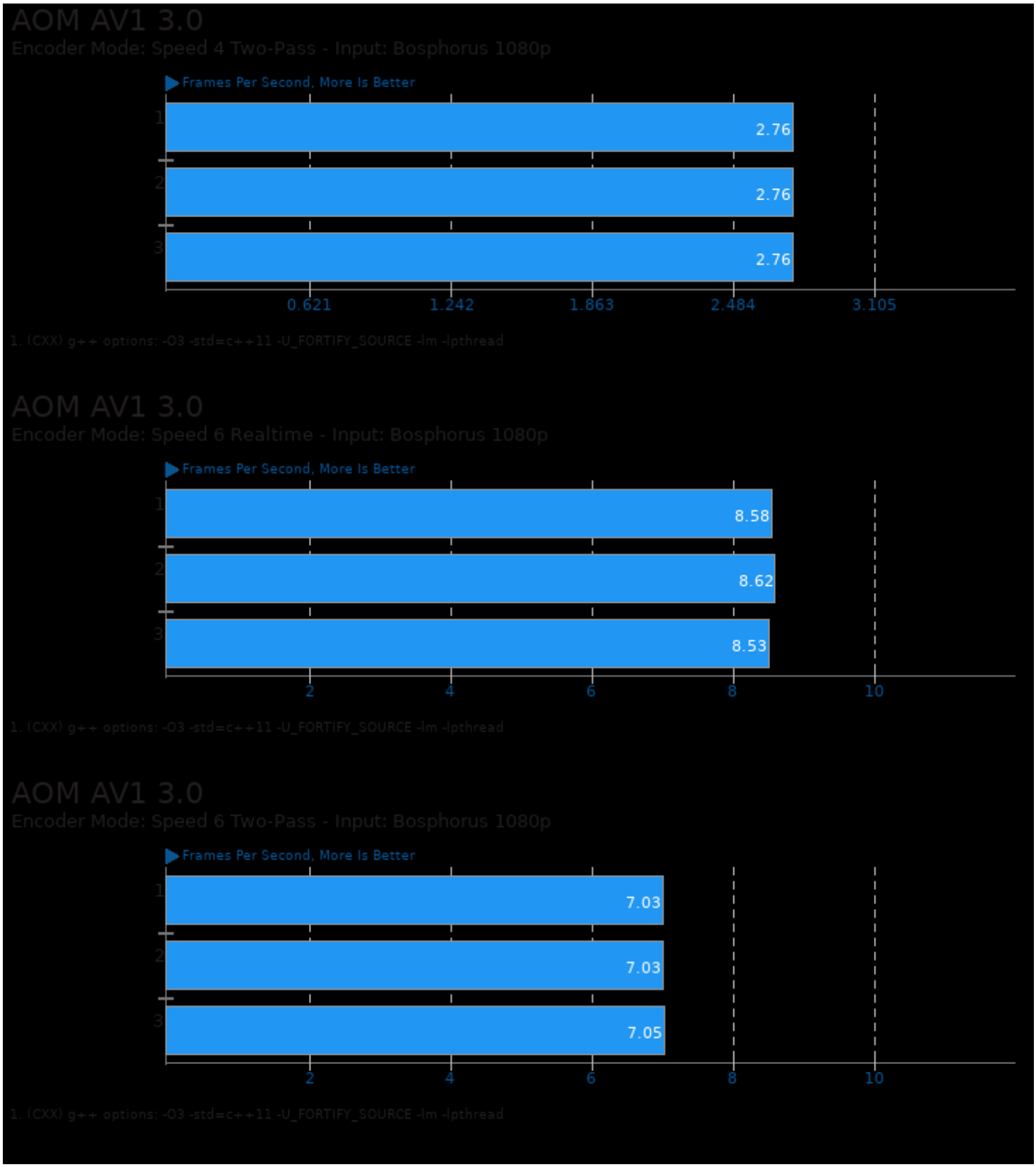
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K



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

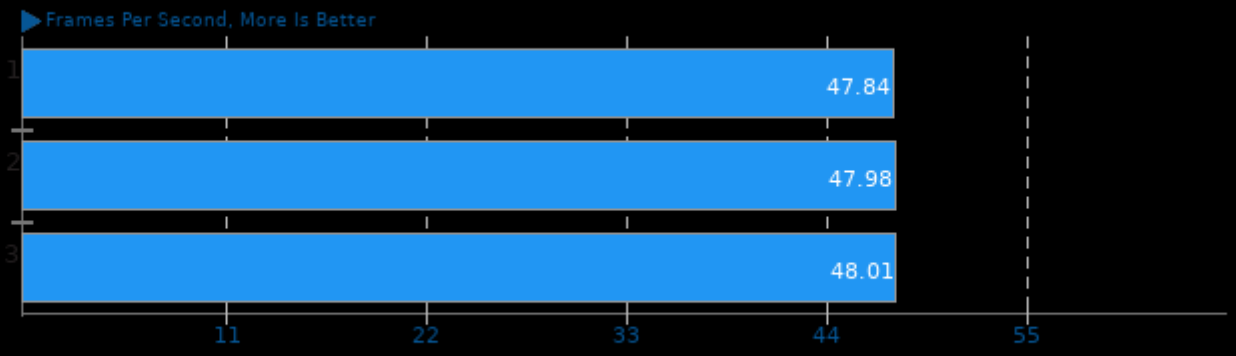

AOM AV1 3.0
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K
Frames Per Second, More Is Better
1
2
3
1.2
1.2
1.2
0.27
0.54
0.81
1.08
1.35
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.0
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
1
2
3
4.42
4.42
4.42
0.9945
1.989
2.9835
3.978
4.9725
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
Frames Per Second, More Is Better
1
2
3
2.18
2.18
2.18
0.4905
0.981
1.4715
1.962
2.4525
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread


AOM AV1 3.0
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
1
2
3
13.78
13.82
13.76
4
8
12
16
20
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.0
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
1
2
3
17.56
17.49
17.54
4
8
12
16
20
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.0
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
0.14
0.14
0.14
0.0315
0.063
0.0945
0.126
0.1575
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread


AOM AV1 3.0
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
2.76
2.76
2.76
0.621
1.242
1.863
2.484
3.105
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.0
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
8.58
8.62
8.53
2
4
6
8
10
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 1080p
Frames Per Second, More Is Better
1
2
3
7.03
7.03
7.05
2
4
6
8
10
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

AOM AV1 3.0

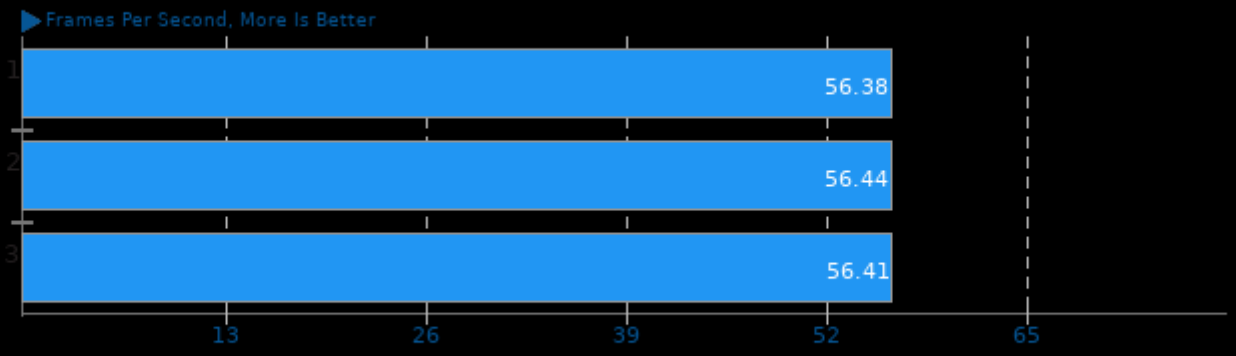
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p



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

AOM AV1 3.0

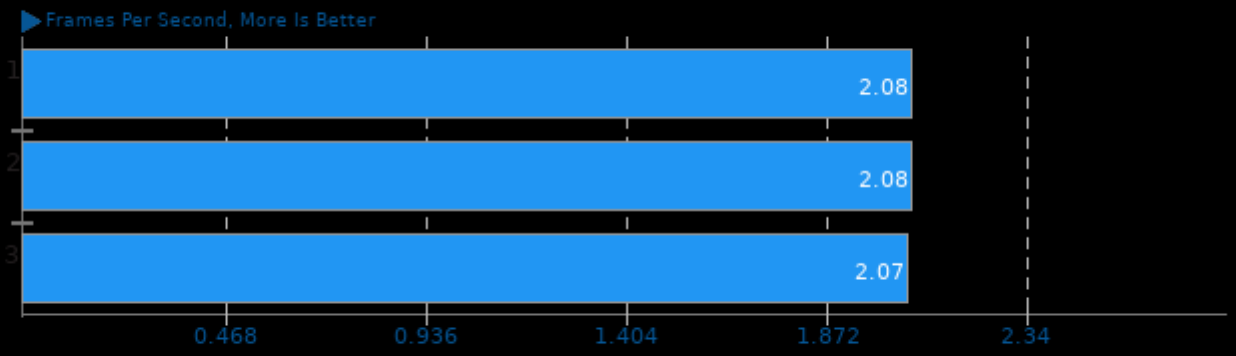
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p



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

SVT-HEVC 1.5.0

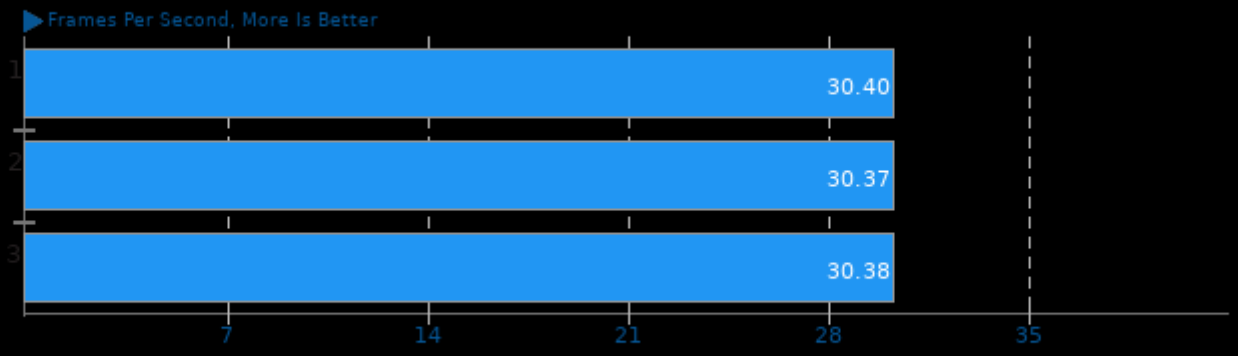
Tuning: 1 - Input: Bosphorus 1080p



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

SVT-HEVC 1.5.0

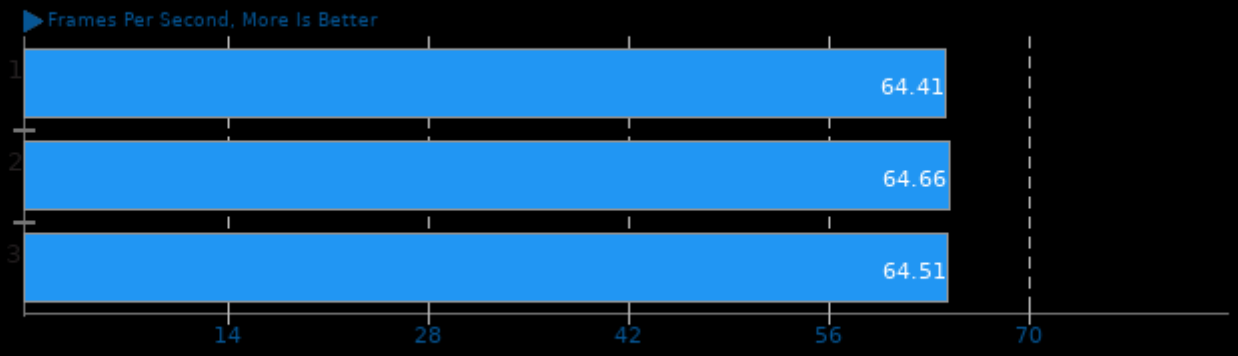
Tuning: 7 - Input: Bosphorus 1080p



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

SVT-HEVC 1.5.0

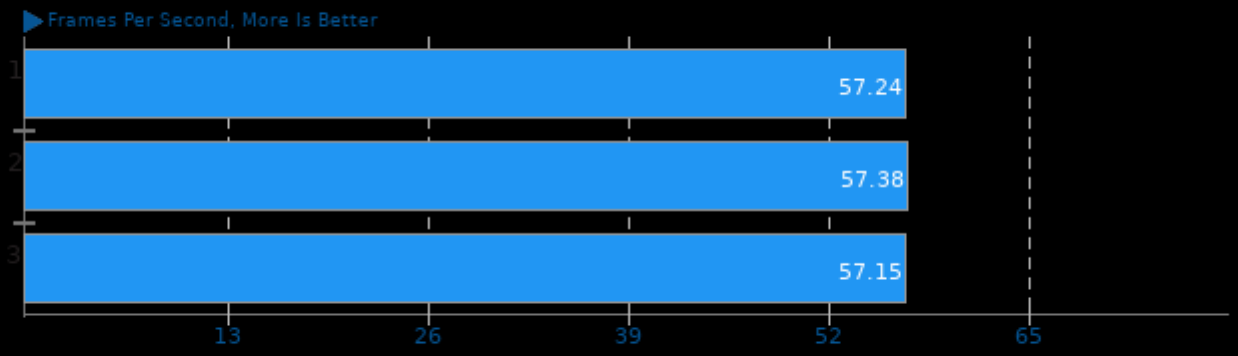
Tuning: 10 - Input: Bosphorus 1080p



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

SVT-VP9 0.3

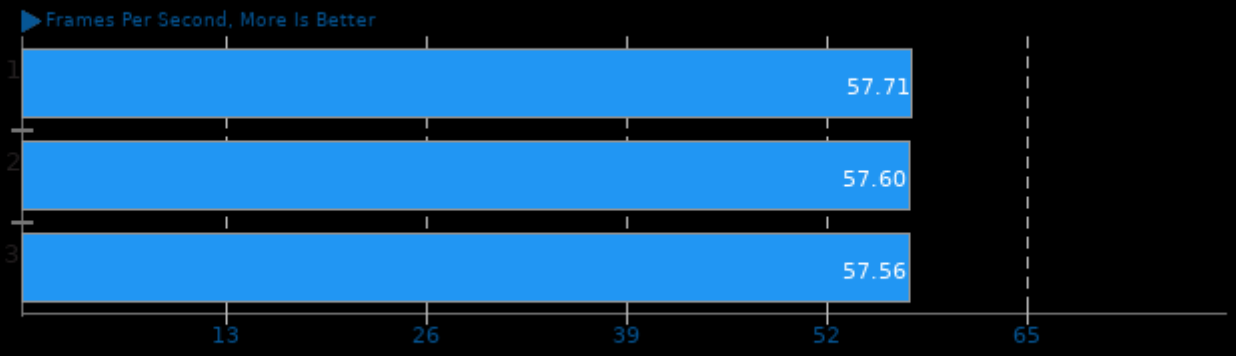
Tuning: VMAF Optimized - Input: Bosphorus 1080p



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

SVT-VP9 0.3

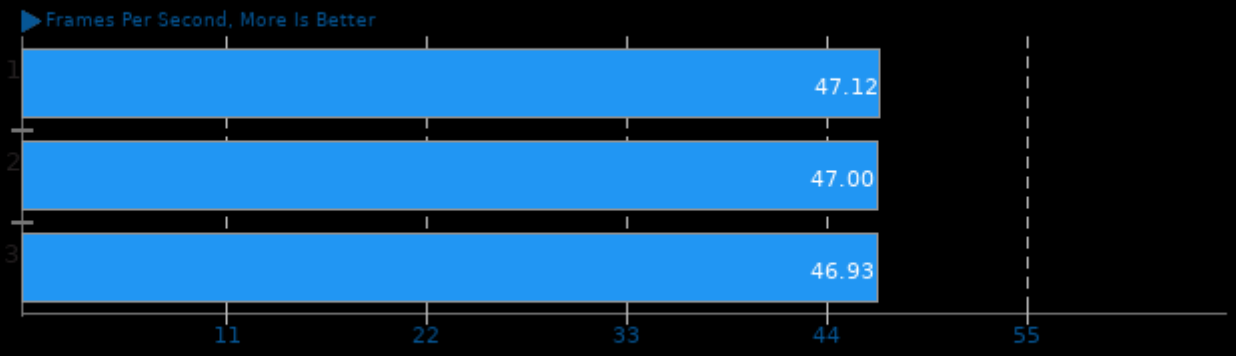
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p



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

SVT-VP9 0.3

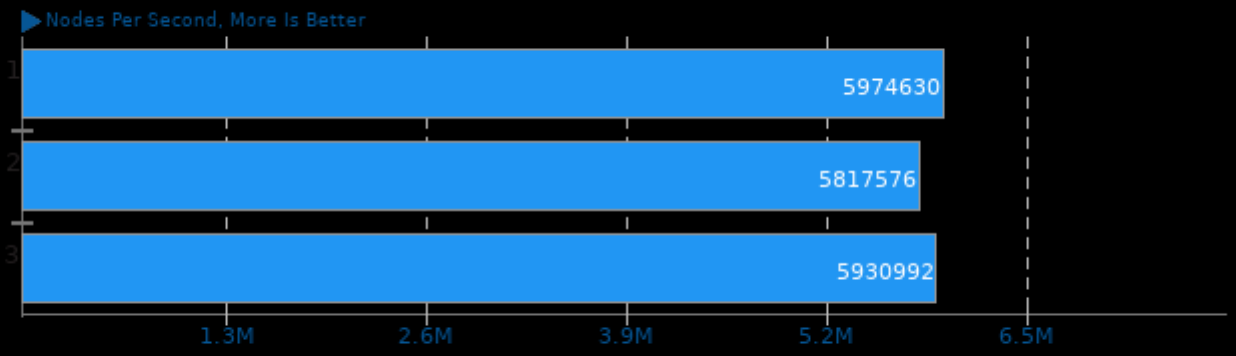
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



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

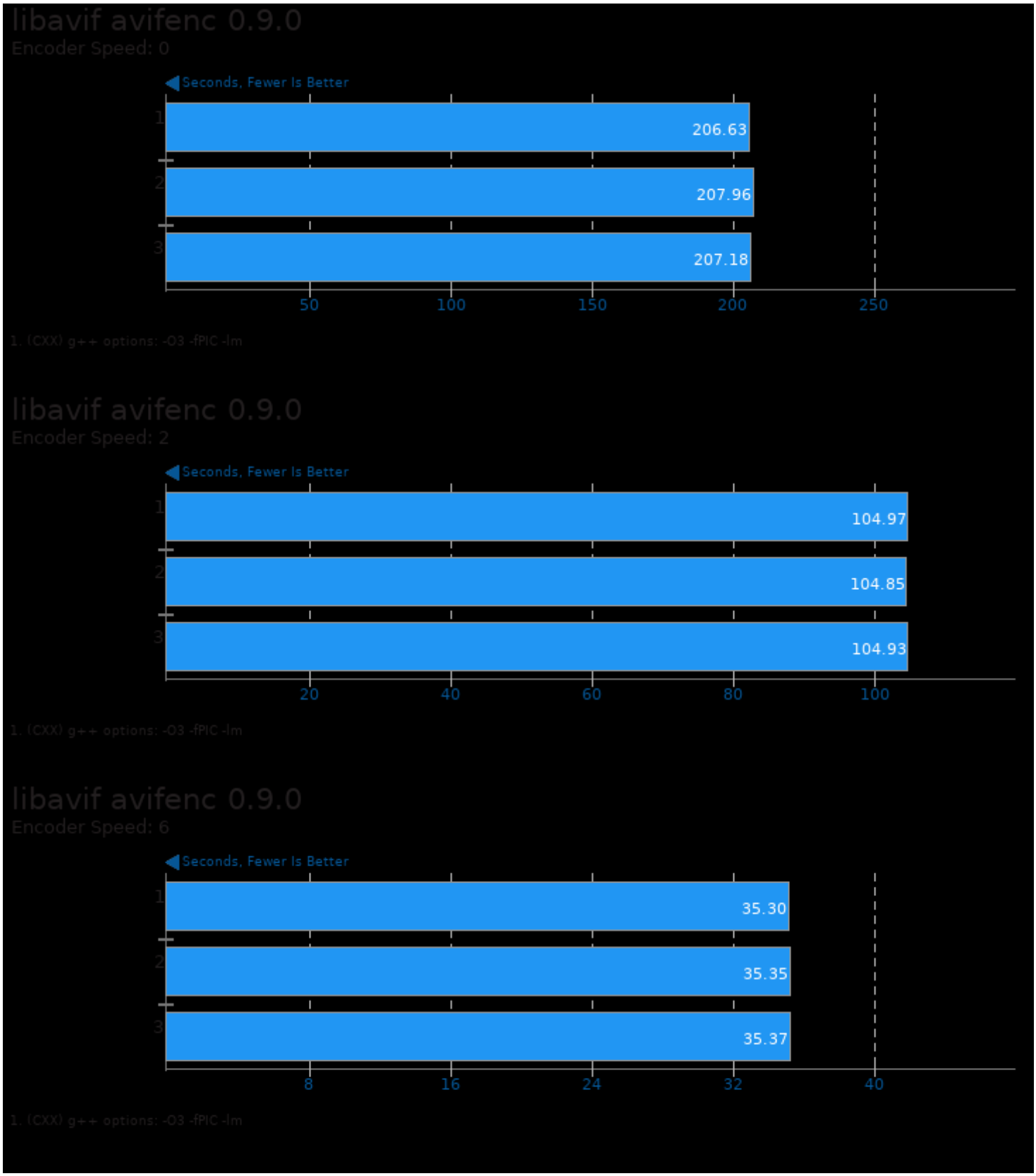
Stockfish 13

Total Time

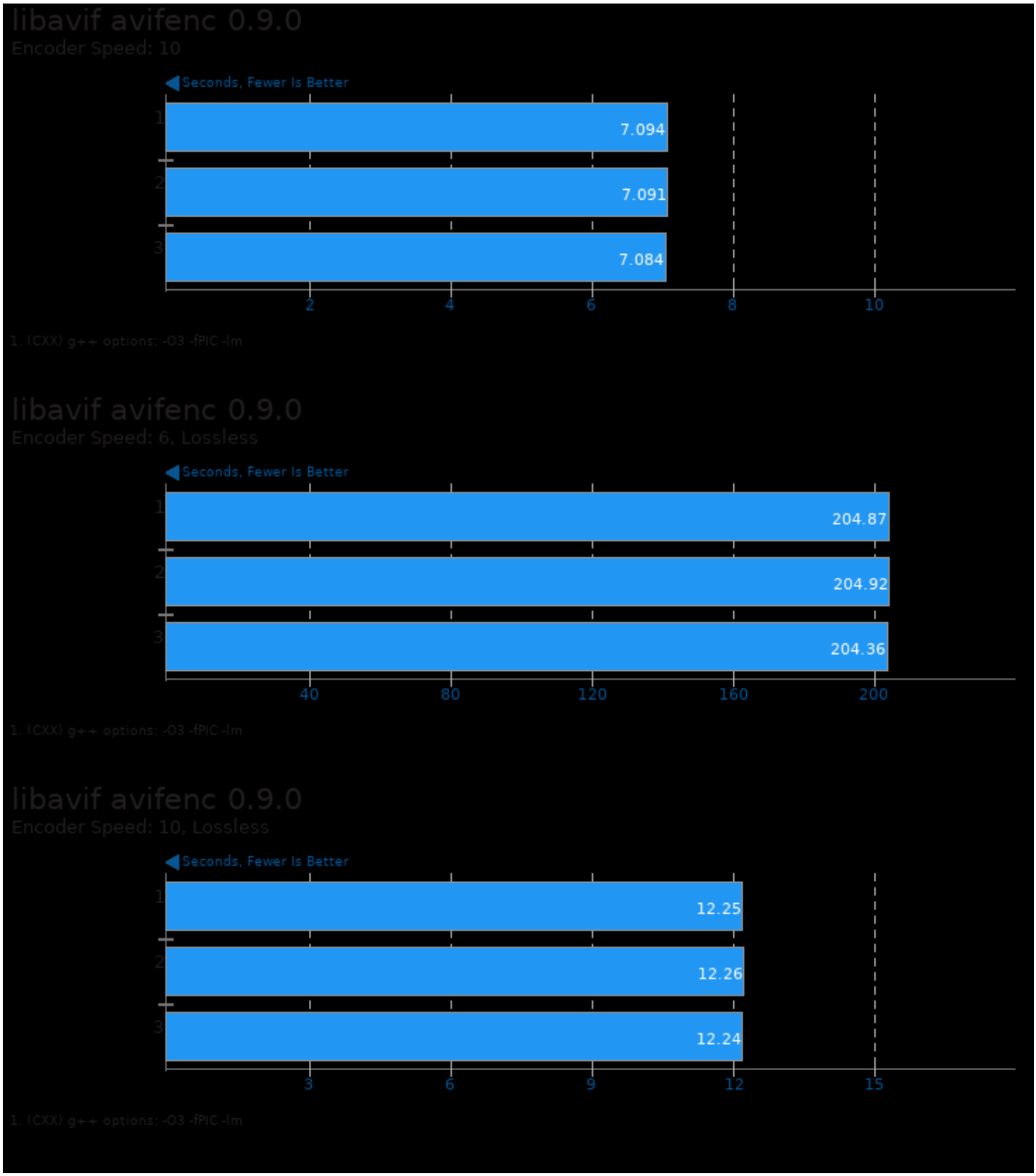


1. (CXX) g++ options: -lgcov -m64 -lpthread -fno-exceptions -std=c++17 -fprofile-use -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt -

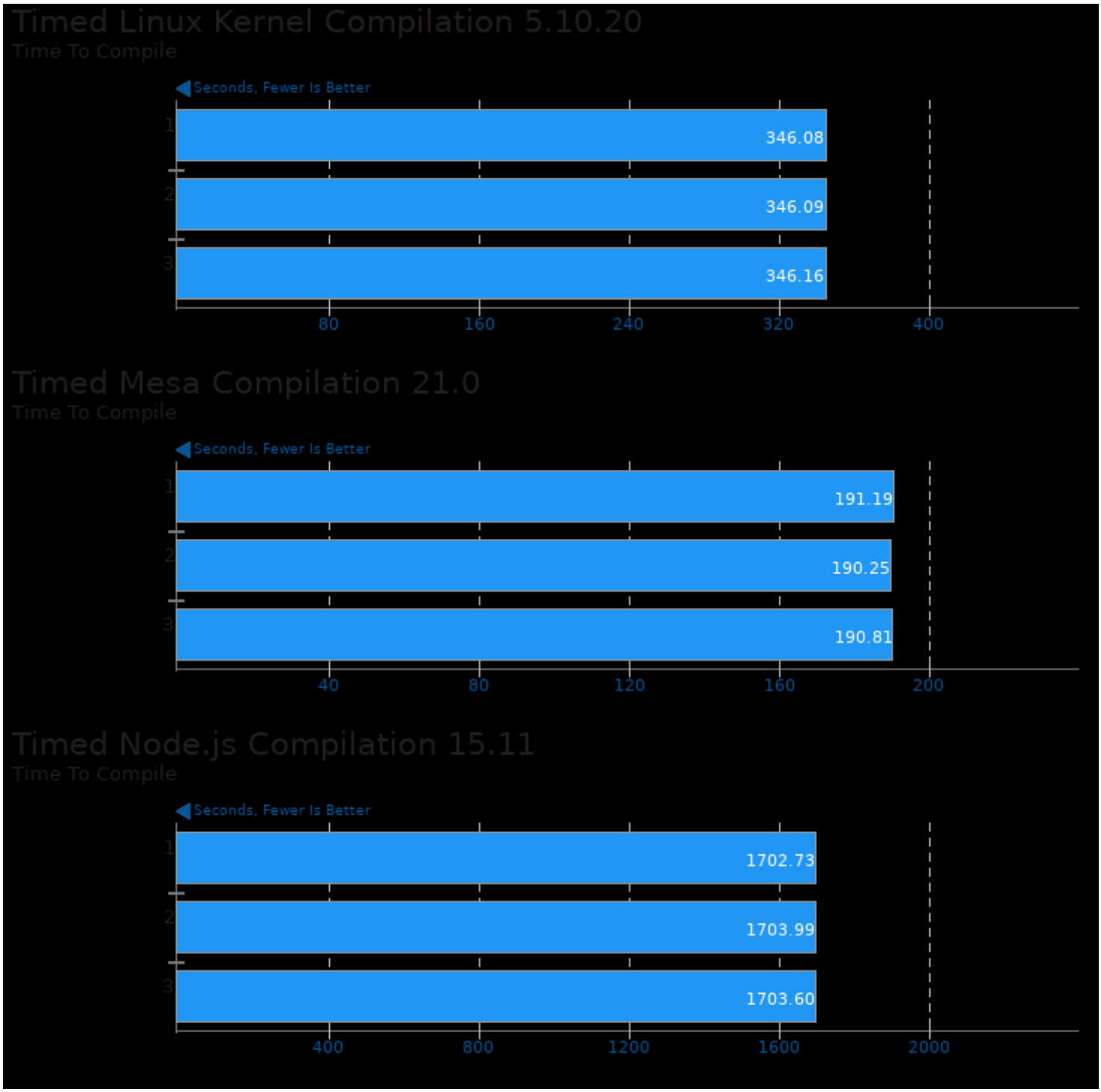
1235L EO March

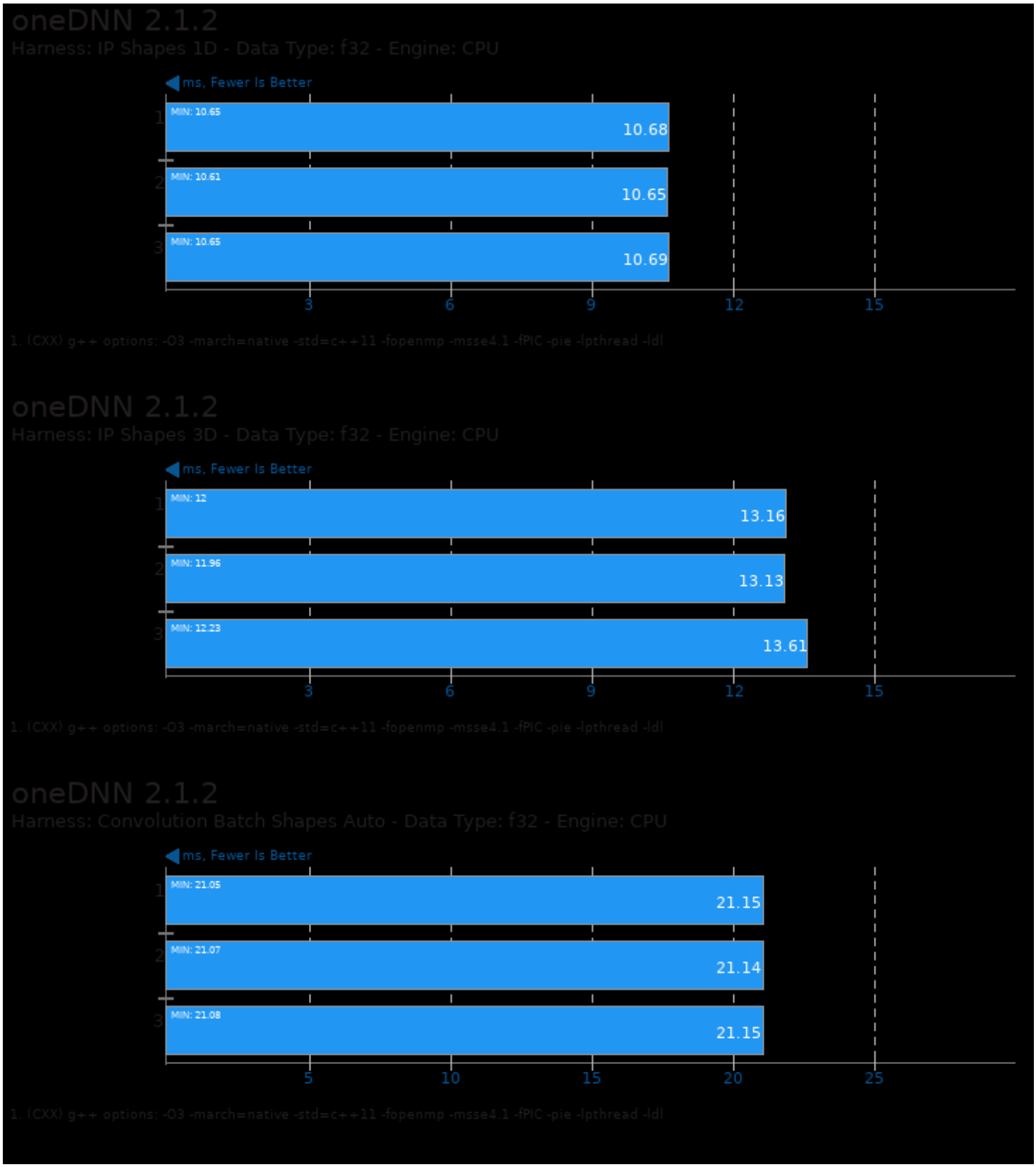


1235L EO March

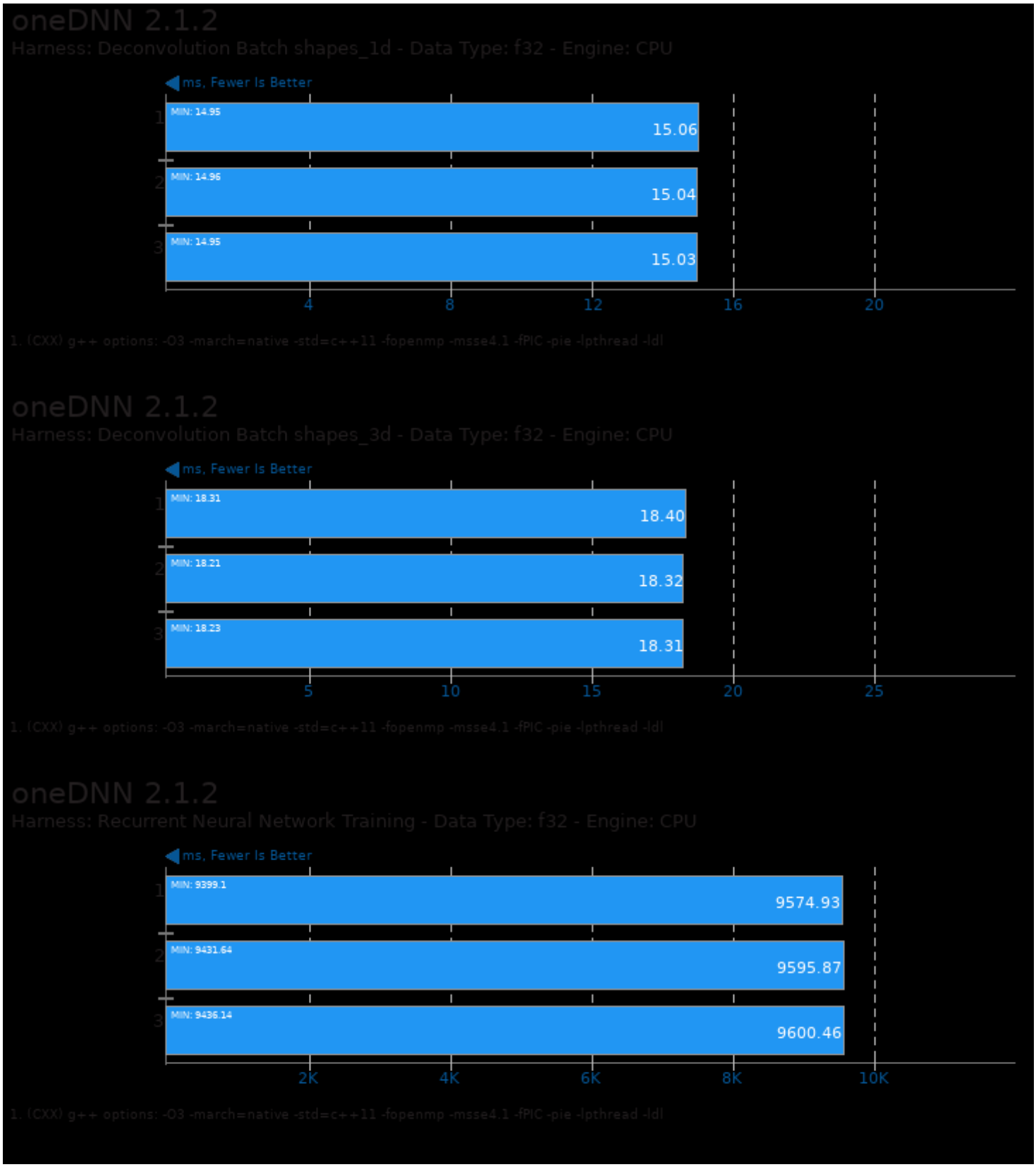


1235L EO March




oneDNN 2.1.2
Harness: IP Shapes 1D - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
1
MIN: 10.65
10.68
2
MIN: 10.61
10.65
3
MIN: 10.65
10.69
3
6
9
12
15
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: IP Shapes 3D - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
1
MIN: 12
13.16
2
MIN: 11.96
13.13
3
MIN: 12.23
13.61
3
6
9
12
15
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: Convolution Batch Shapes Auto - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
1
MIN: 21.05
21.15
2
MIN: 21.07
21.14
3
MIN: 21.08
21.15
5
10
15
20
25
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

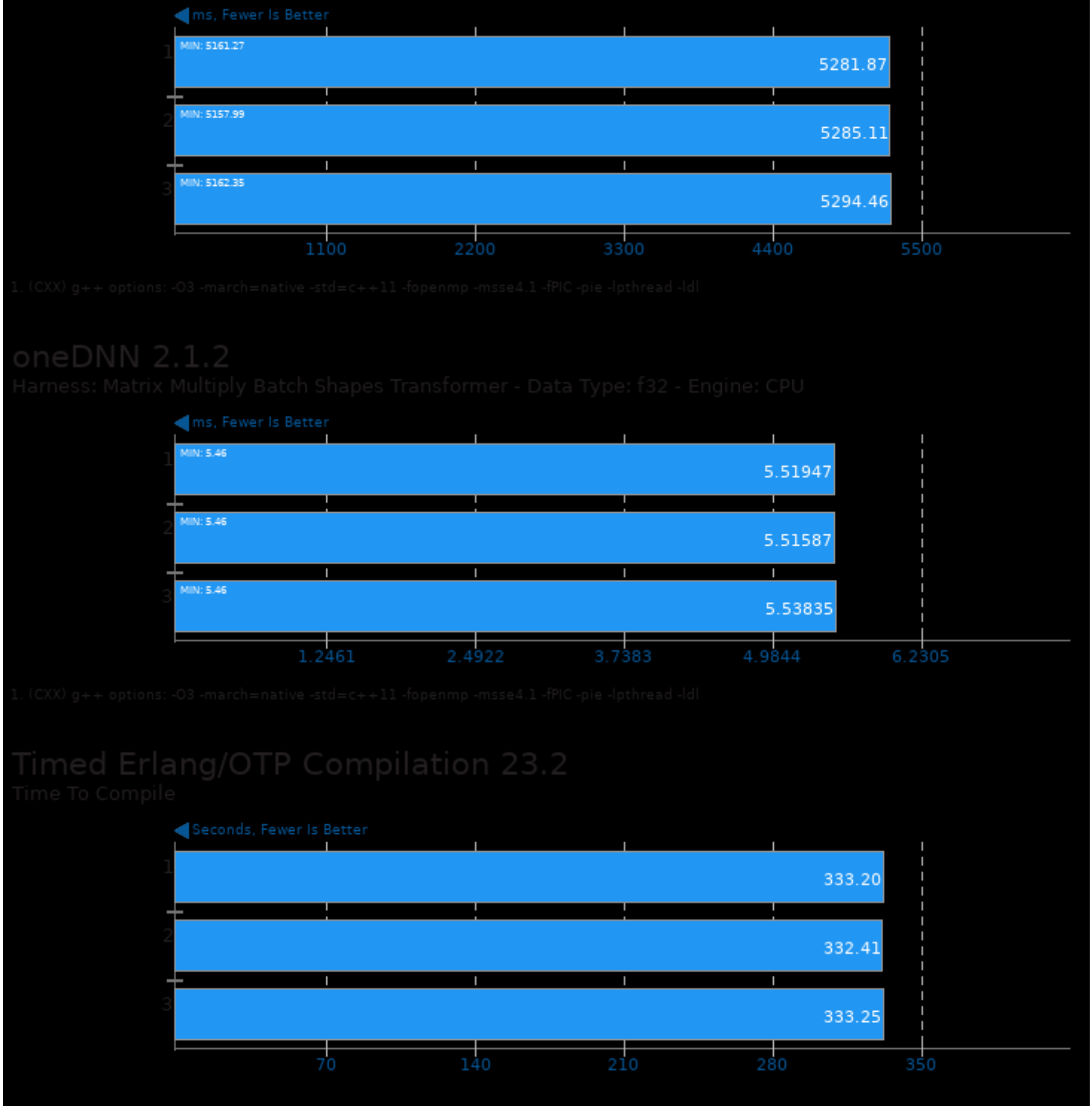
1235L EO March



1235L EO March

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 -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

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

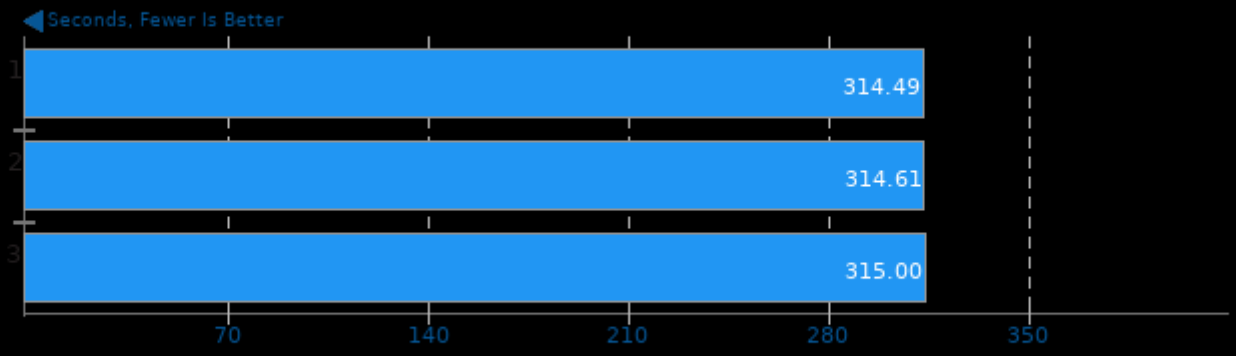
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

Timed Erlang/OTP Compilation 23.2

Time To Compile

Timed Wasmer Compilation 1.0.2

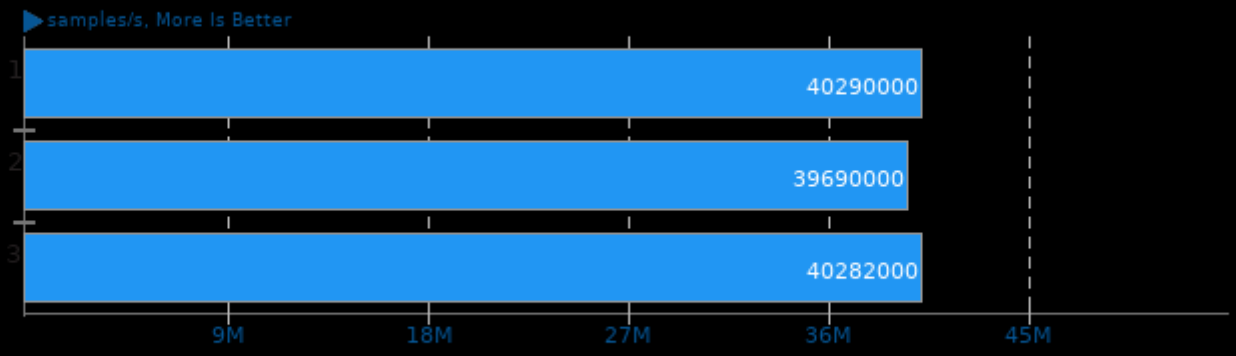
Time To Compile



1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lrt -lpthread -lgcc_s -lc -lm -lutil

Liquid-DSP 2021.01.31

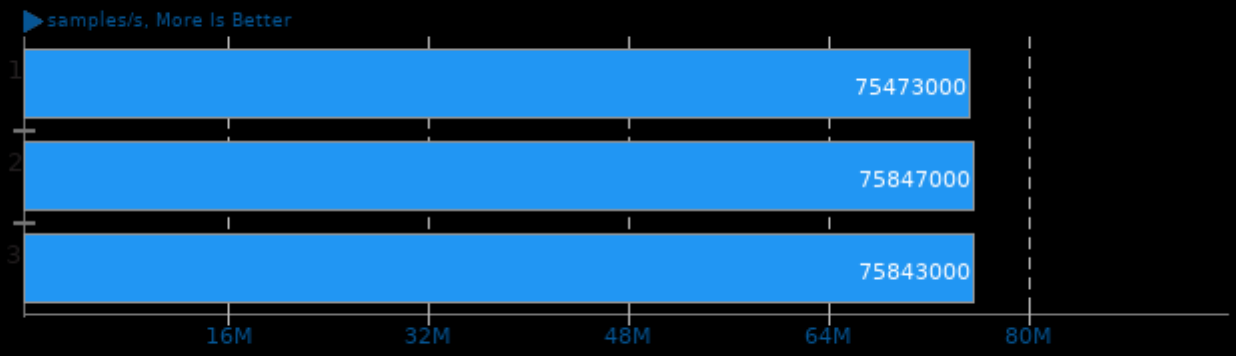
Threads: 1 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

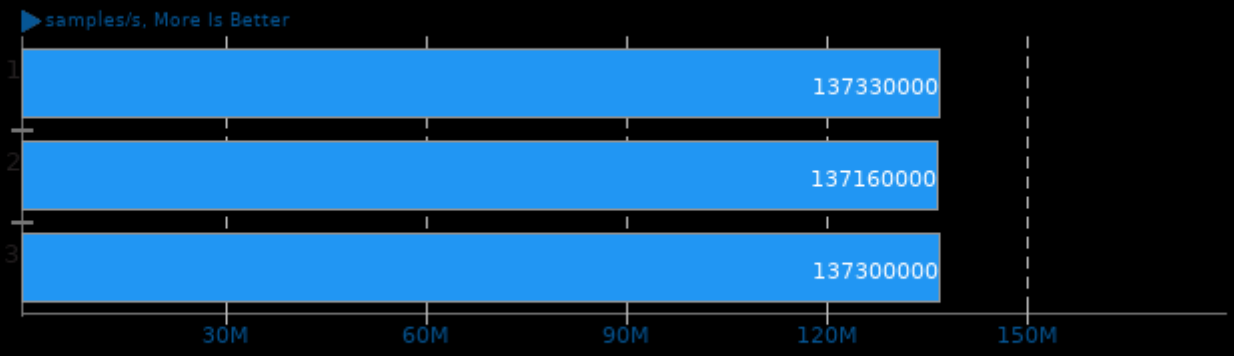
Threads: 2 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

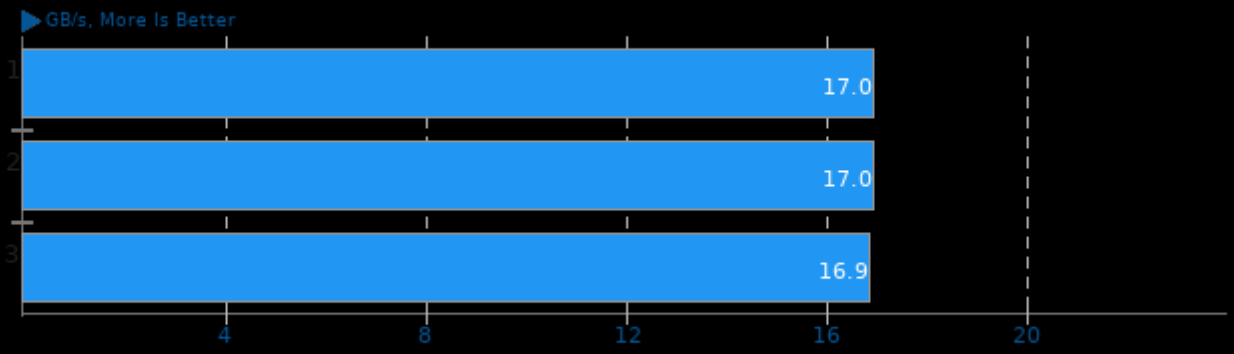
Threads: 4 - Buffer Length: 256 - Filter Length: 57



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

ViennaCL 1.7.1

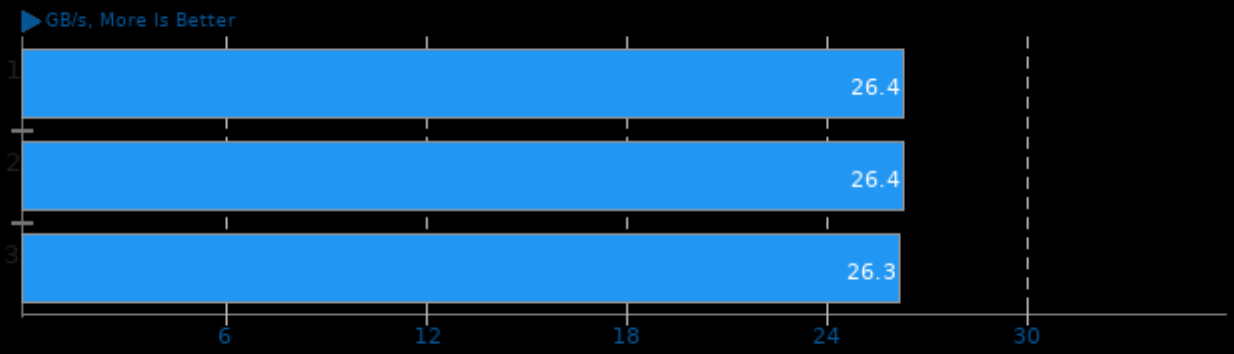
Test: CPU BLAS - sCOPY



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

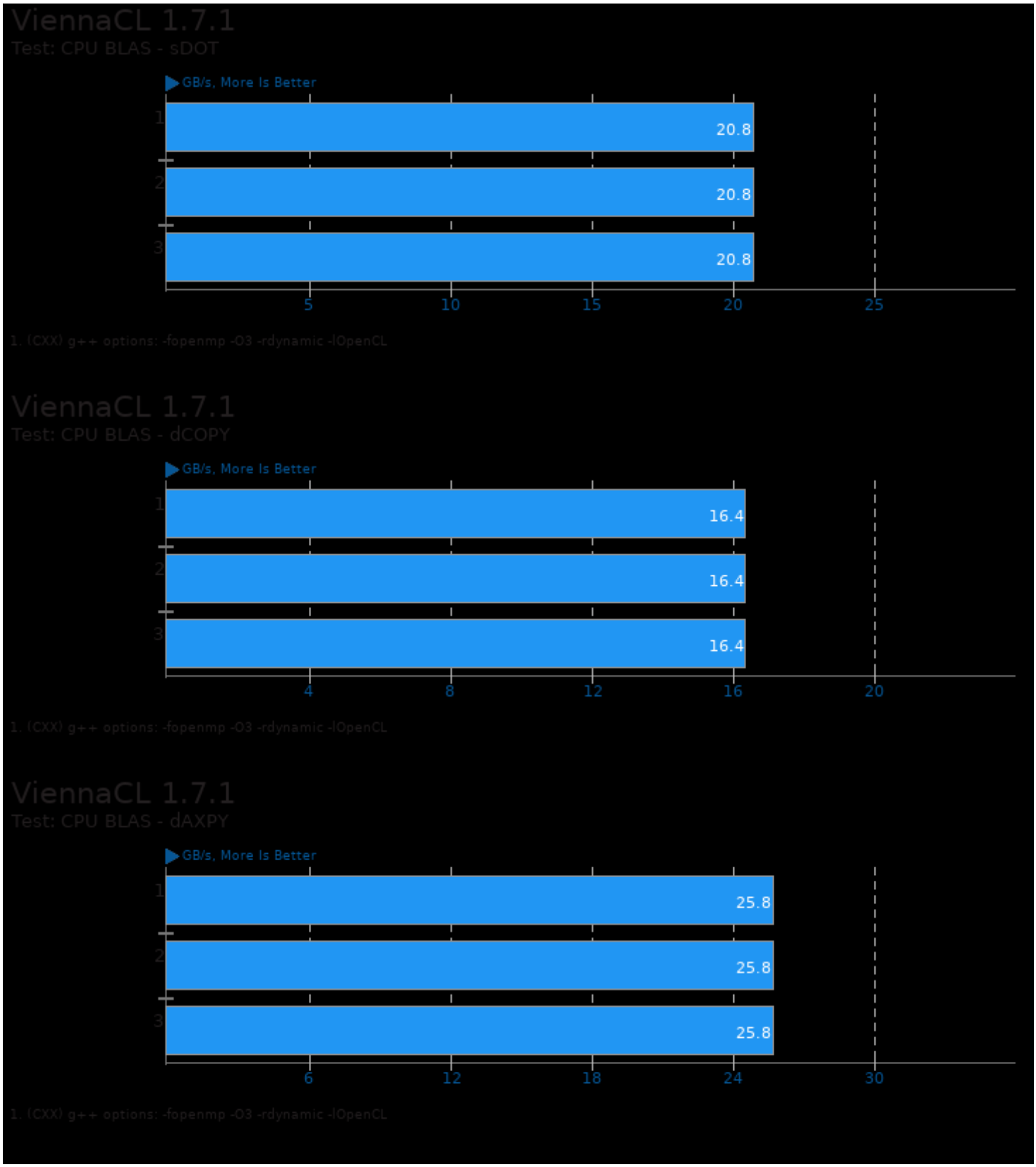
ViennaCL 1.7.1

Test: CPU BLAS - sAXPY

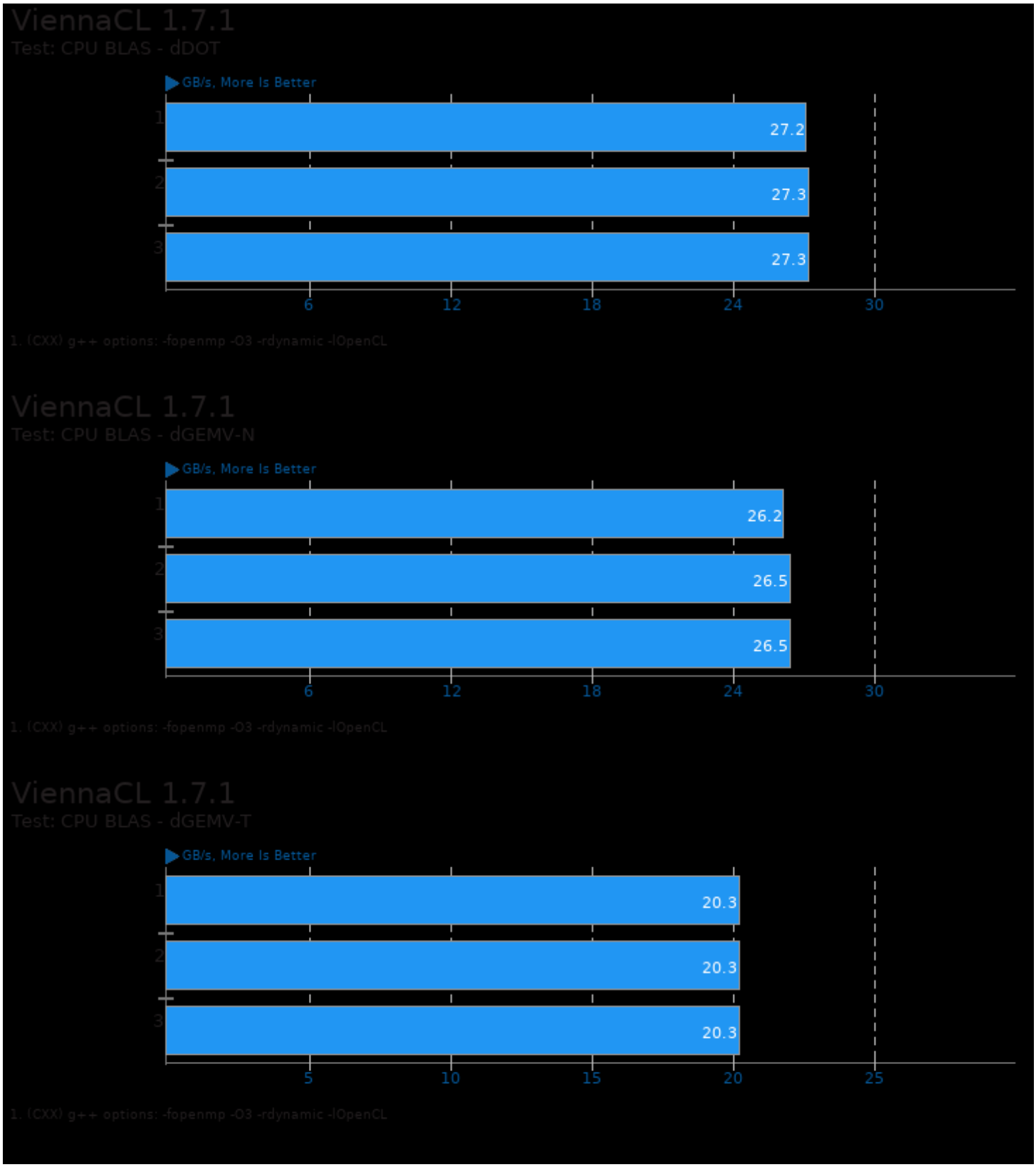


1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

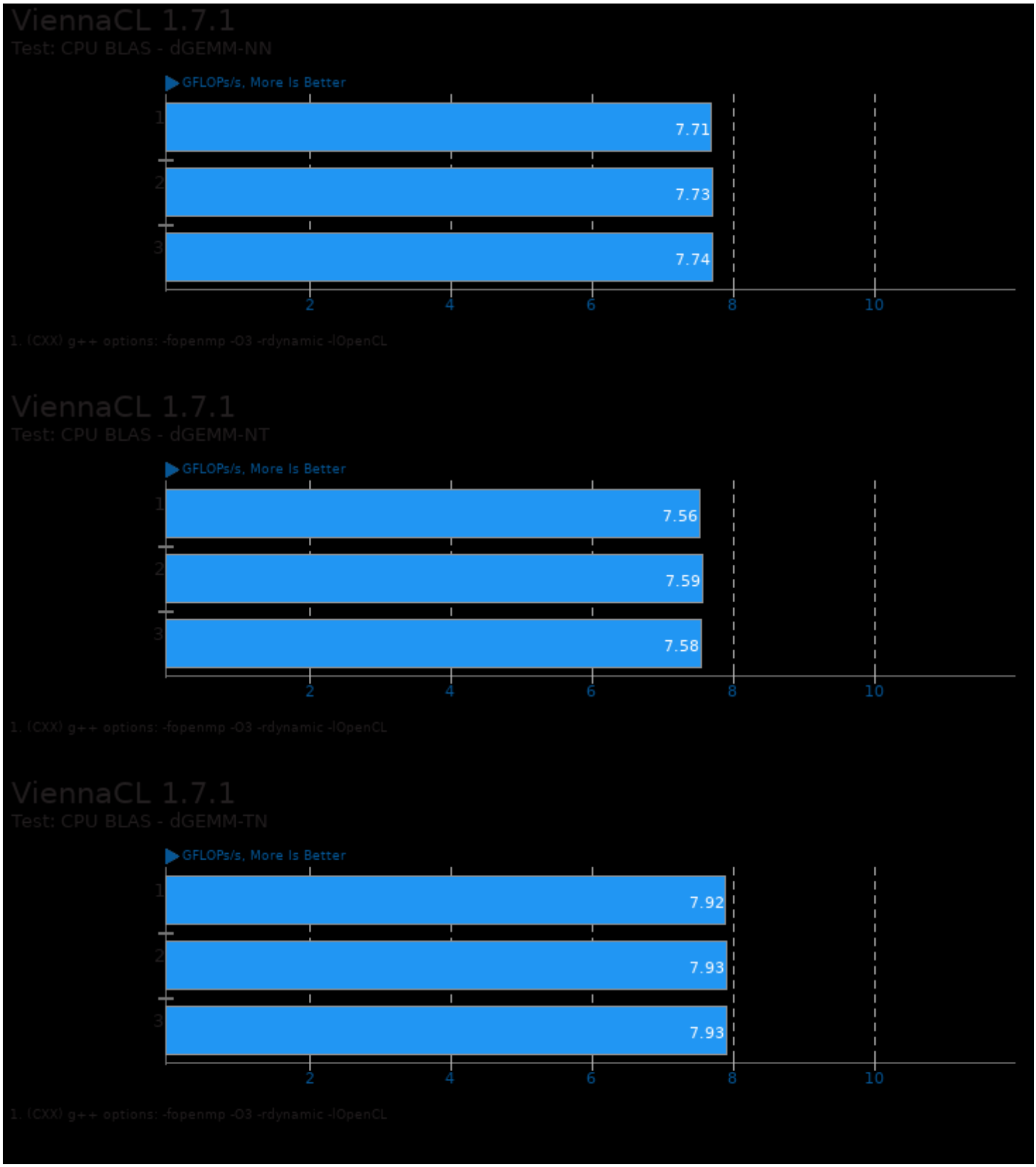
1235L EO March



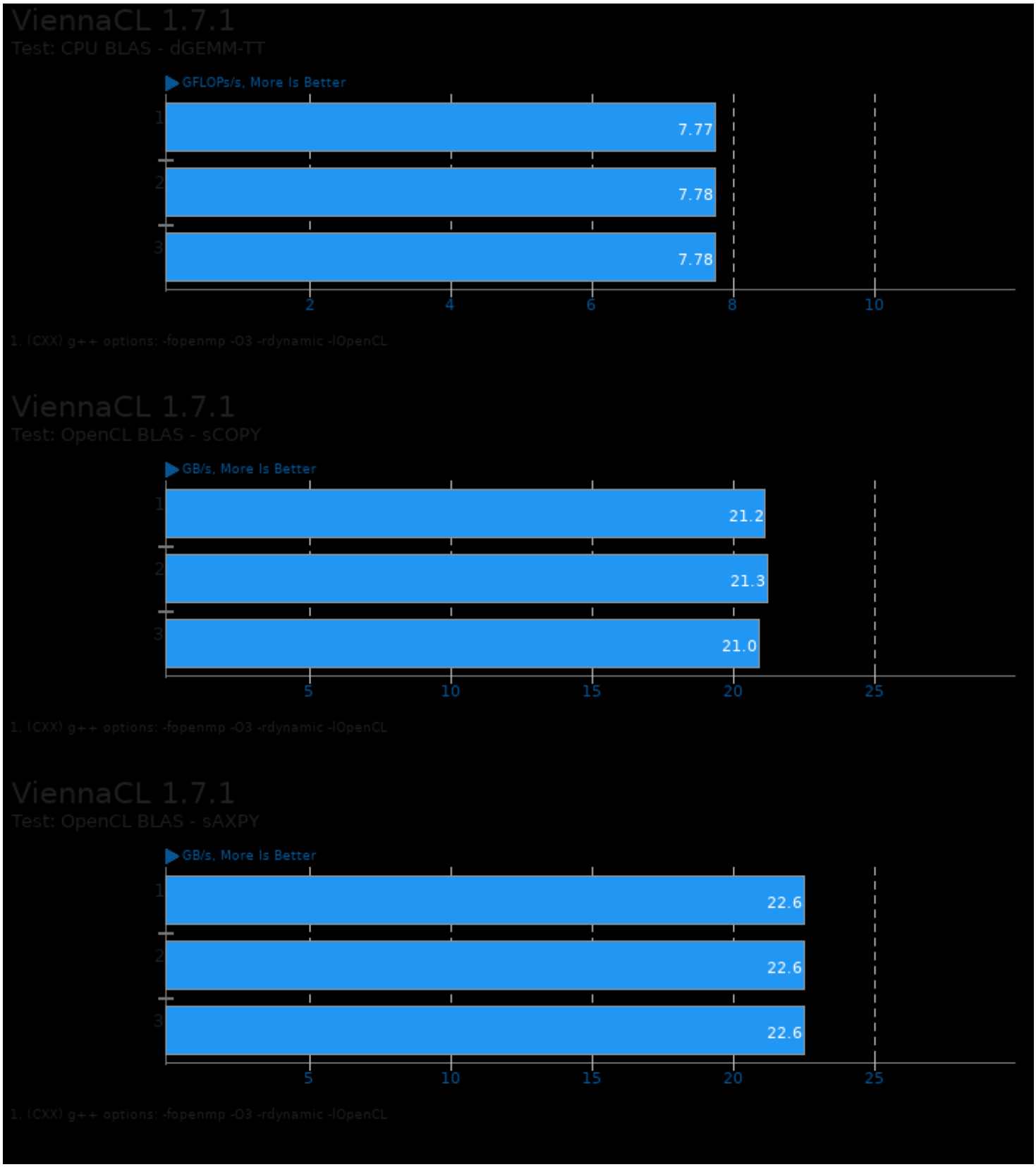
1235L EO March



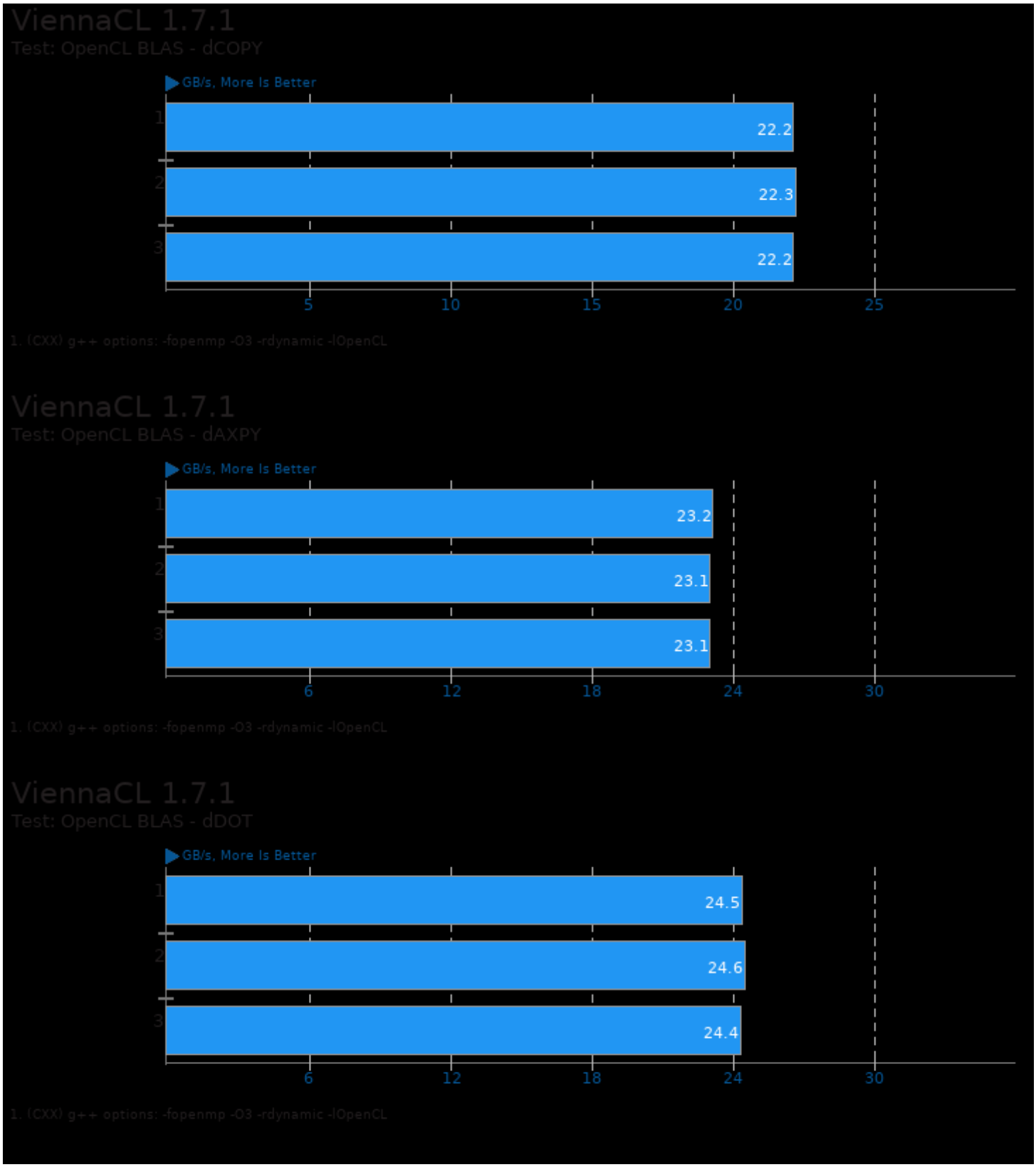
1235L EO March

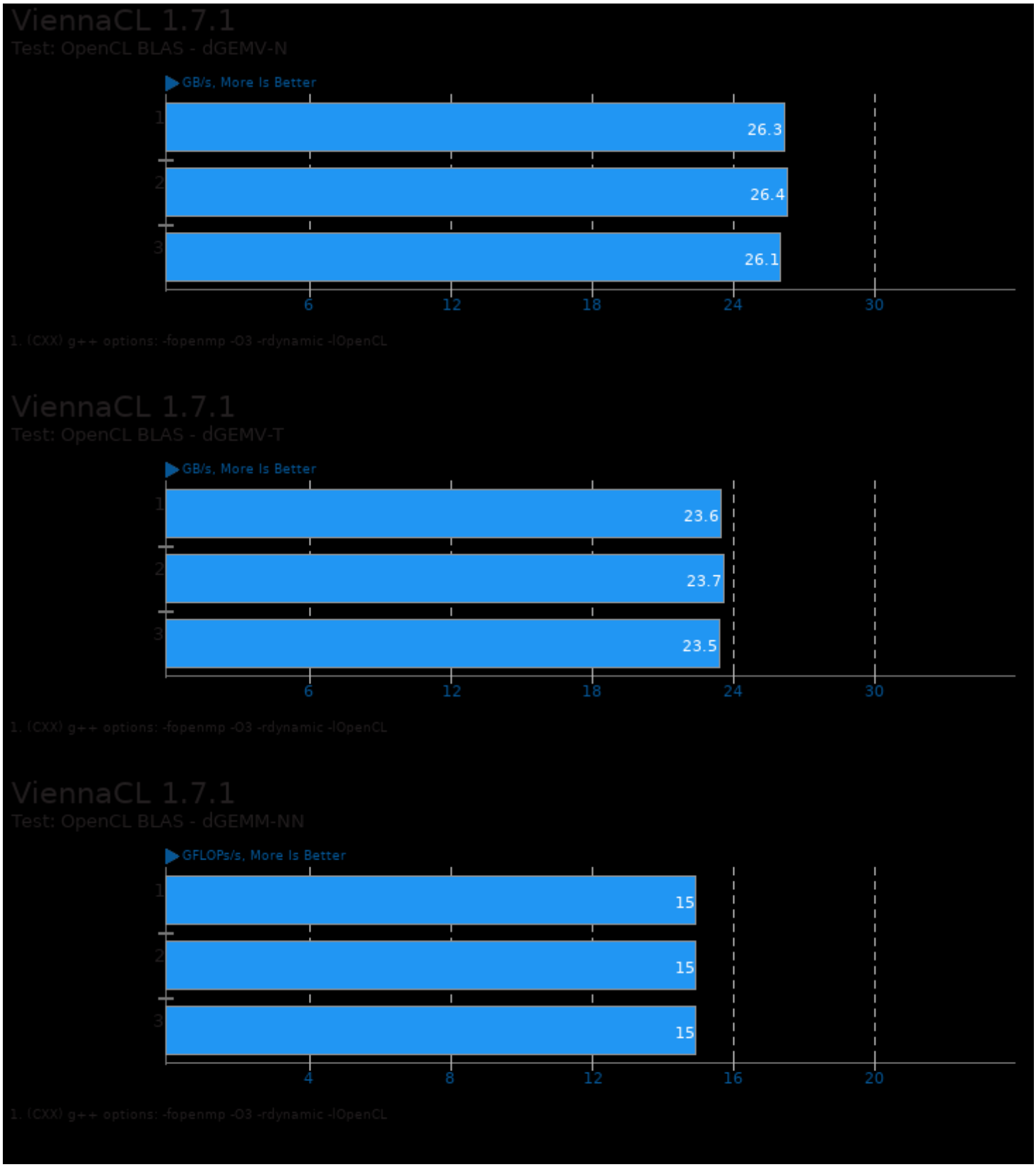


1235L EO March

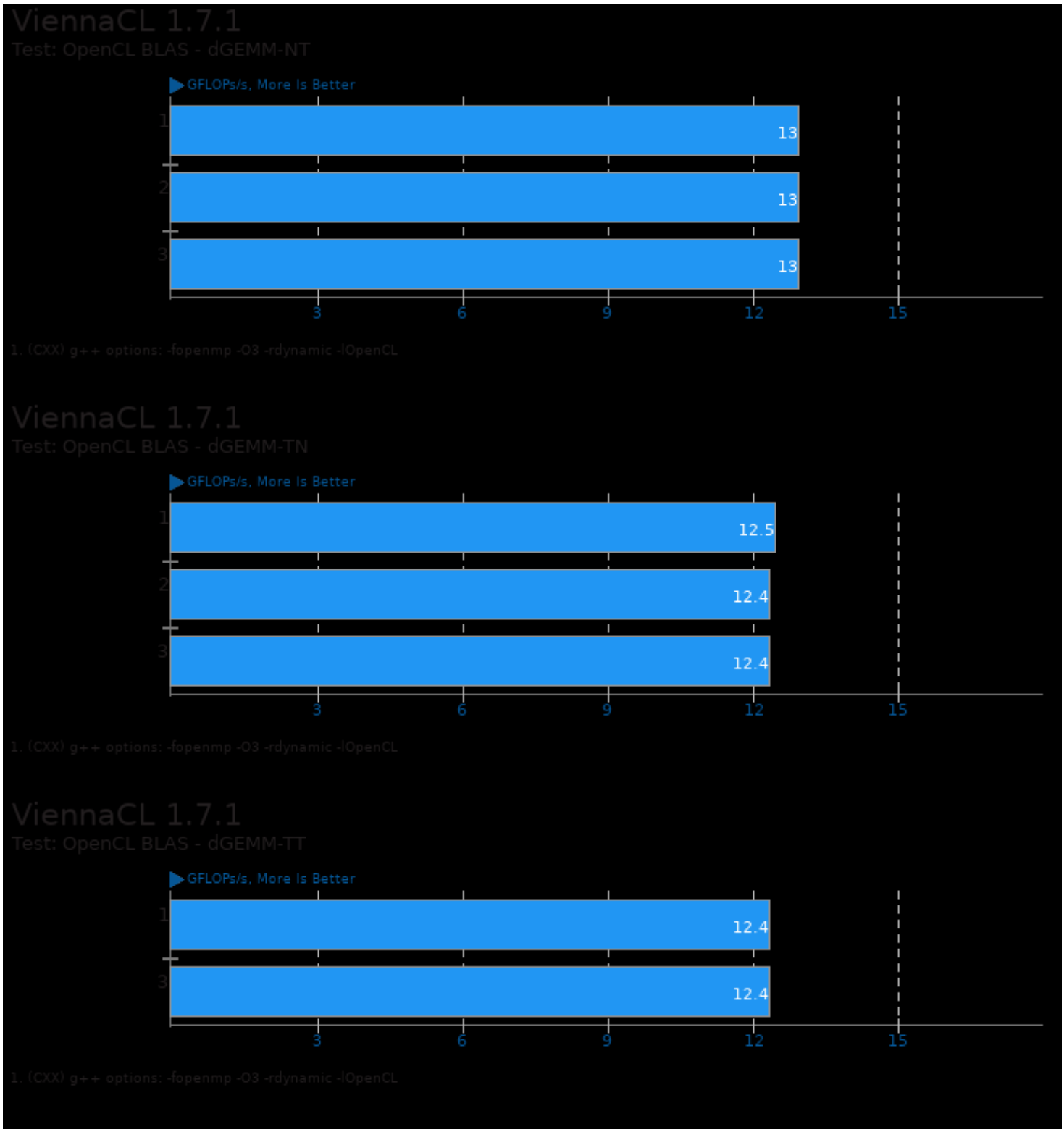


1235L EO March

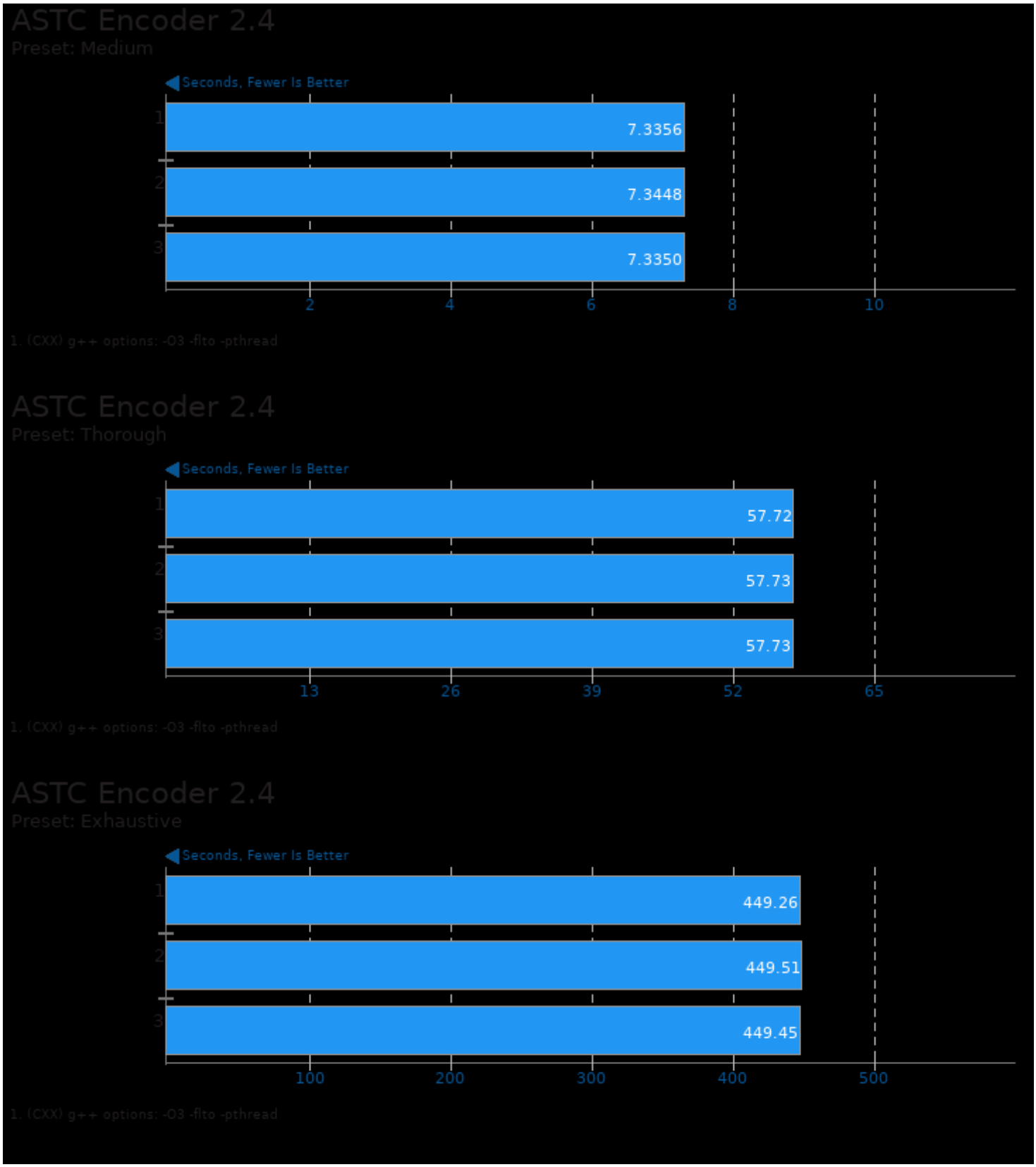



ViennaCL 1.7.1
Test: OpenCL BLAS - dGEMV-N
GB/s, More Is Better
1
26.3
2
26.4
3
26.1
6
12
18
24
30
1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL
ViennaCL 1.7.1
Test: OpenCL BLAS - dGEMV-T
GB/s, More Is Better
1
23.6
2
23.7
3
23.5
6
12
18
24
30
1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL
ViennaCL 1.7.1
Test: OpenCL BLAS - dGEMM-NN
GFLOPs/s, More Is Better
1
15
2
15
3
15
4
8
12
16
20
1. (CXX) g++ options: -fopenmp -O3 -rdynamic -lOpenCL

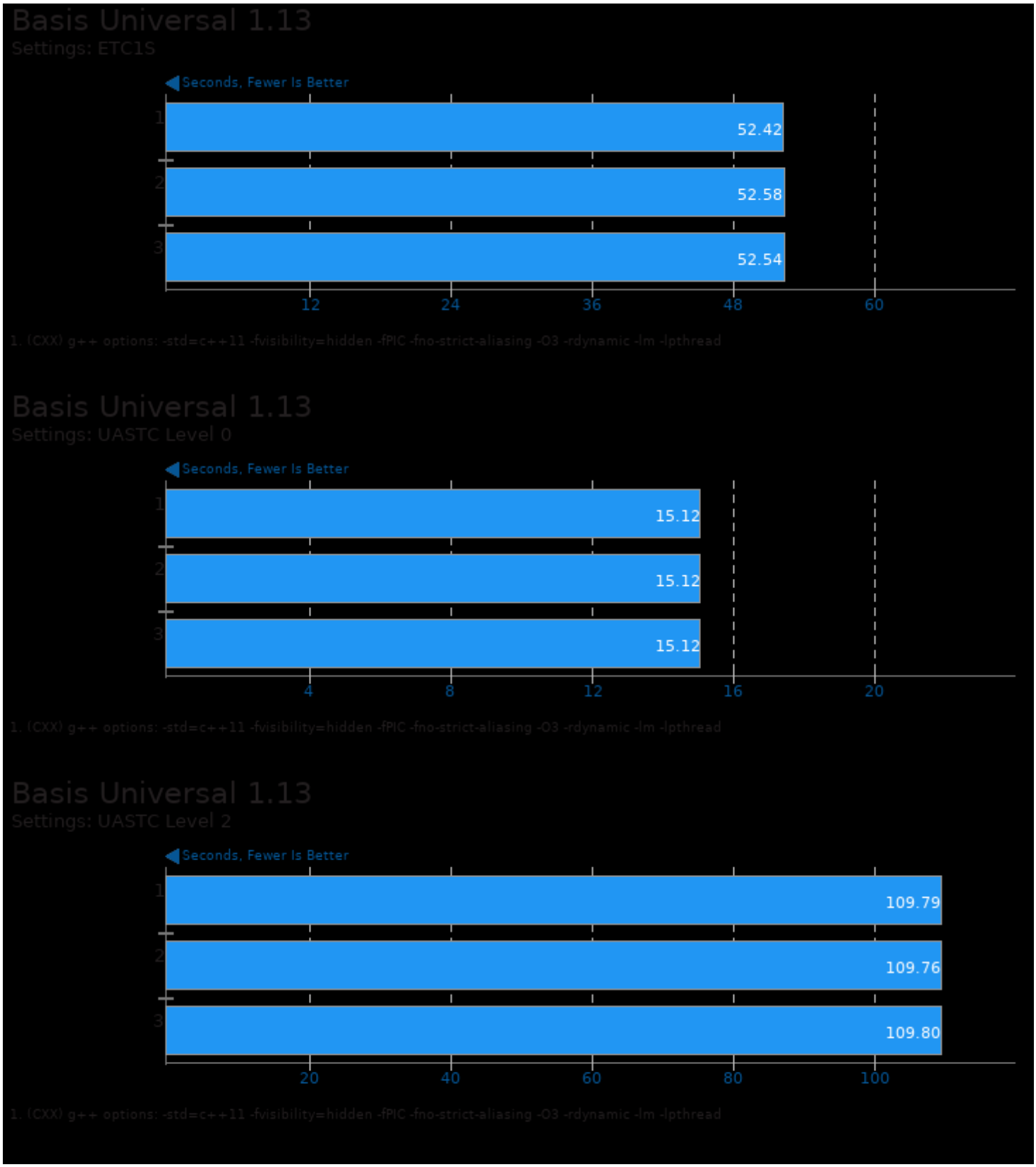
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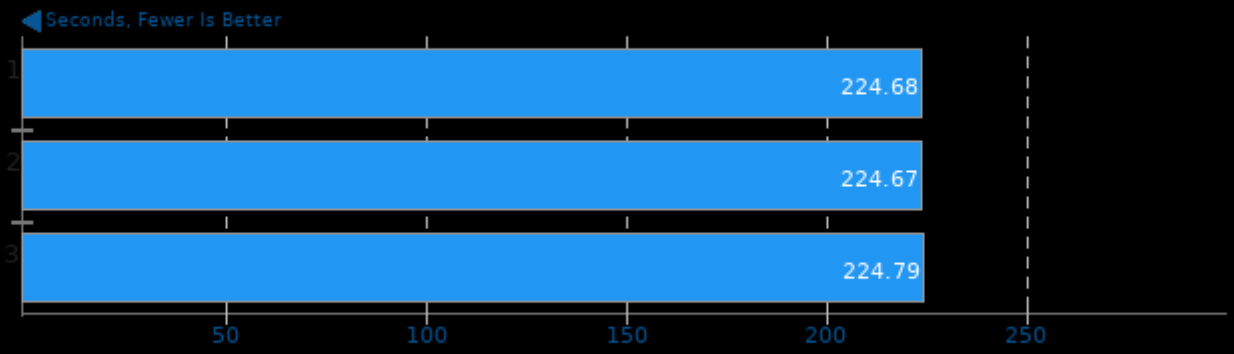


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Basis Universal 1.13

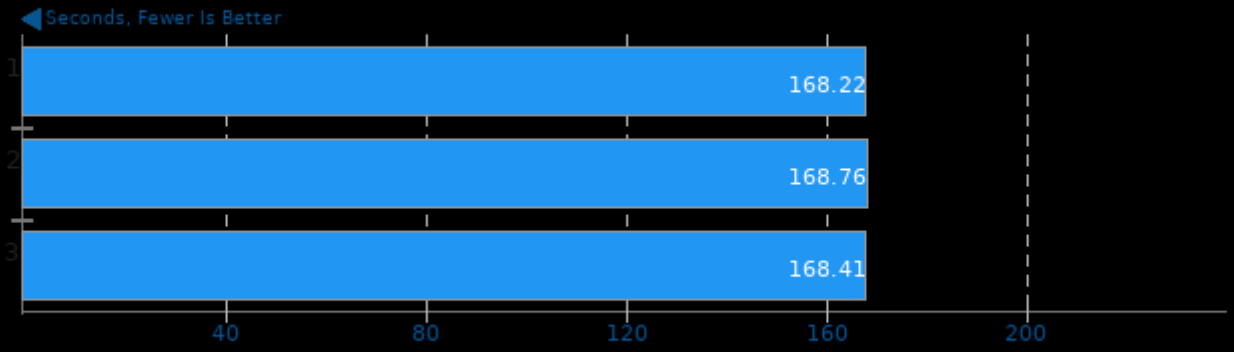
Settings: UASTC Level 3



1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

OpenSCAD

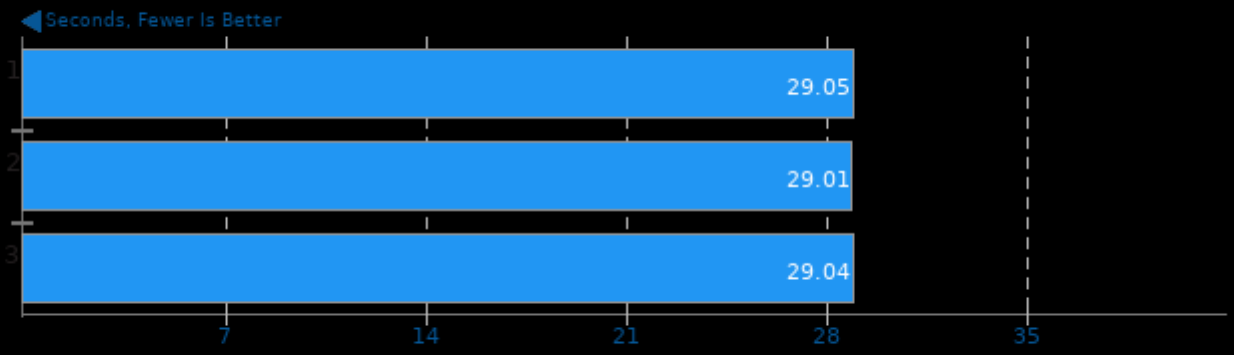
Render: Pistol



1. OpenSCAD version 2019.05

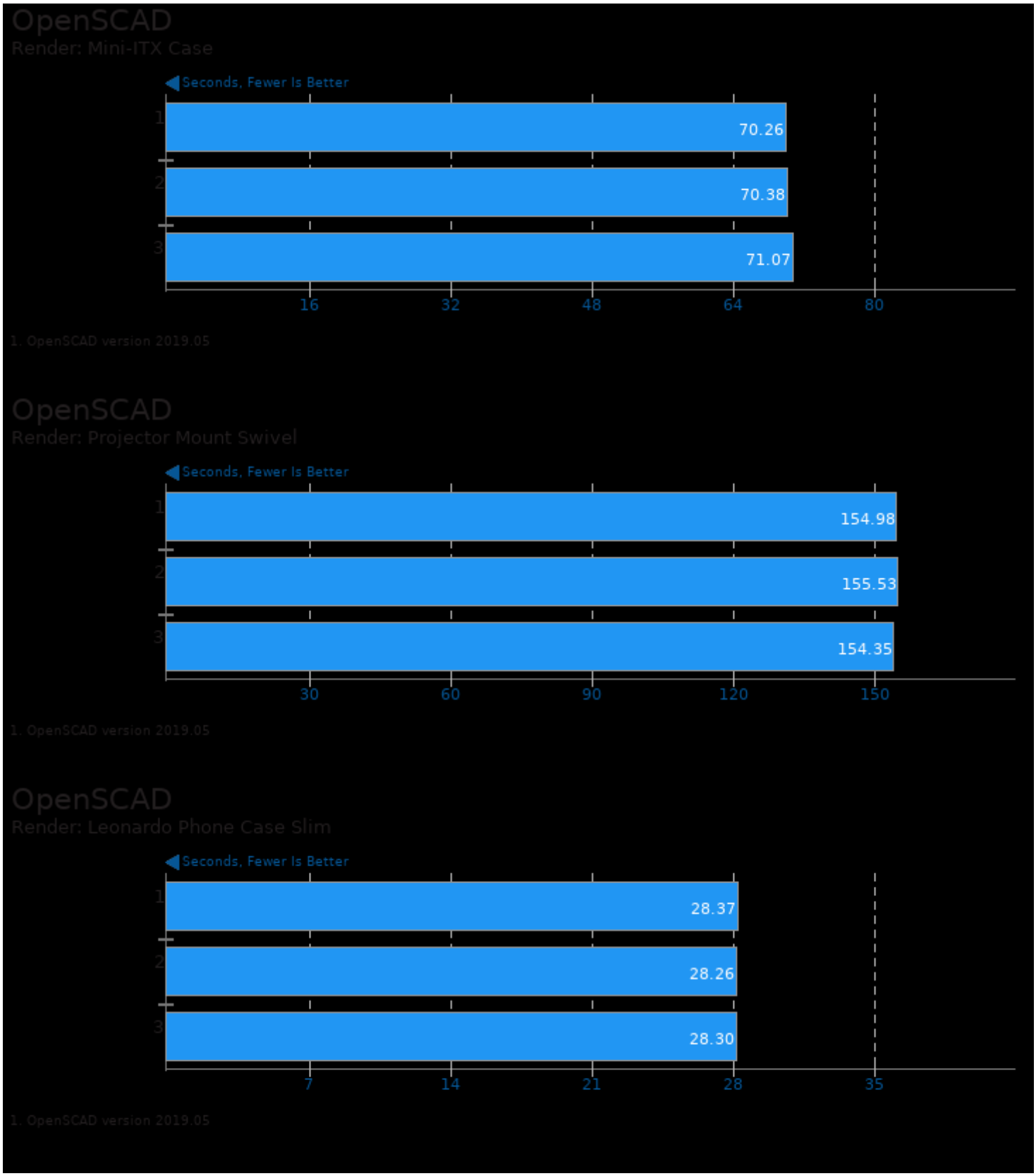
OpenSCAD

Render: Retro Car



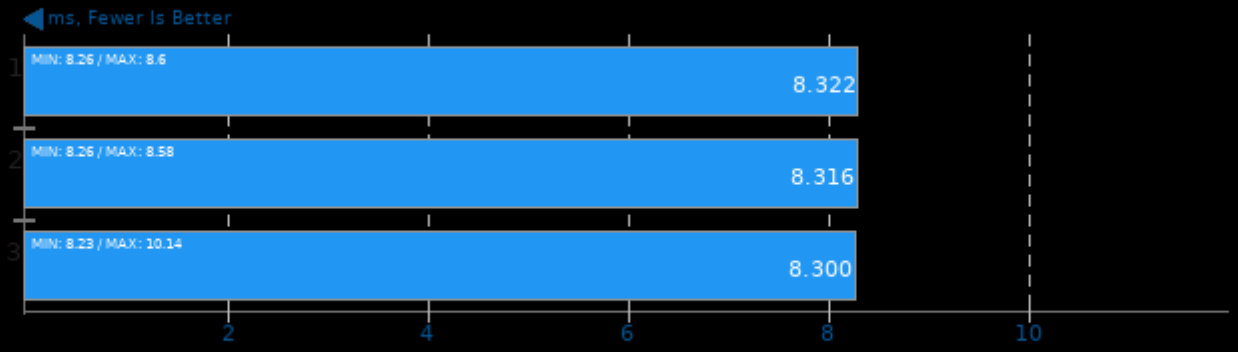
1. OpenSCAD version 2019.05

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Mobile Neural Network 1.1.3

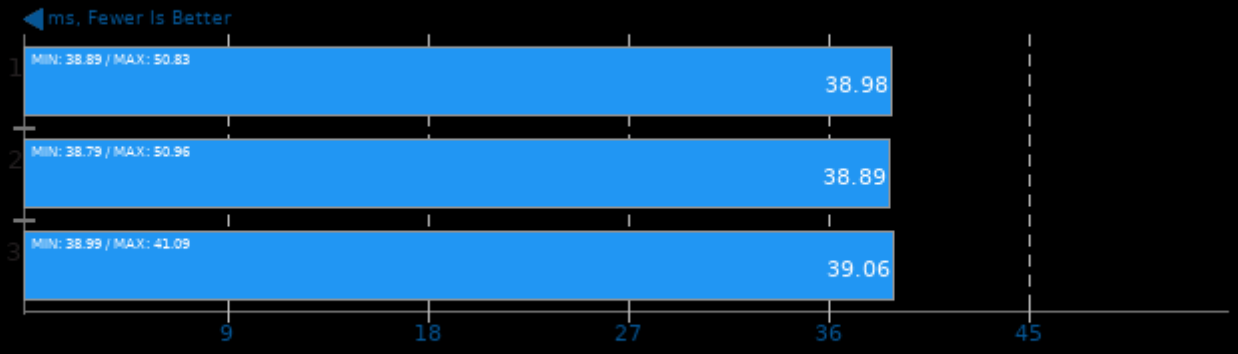
Model: SqueezeNetV1.0



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv

Mobile Neural Network 1.1.3

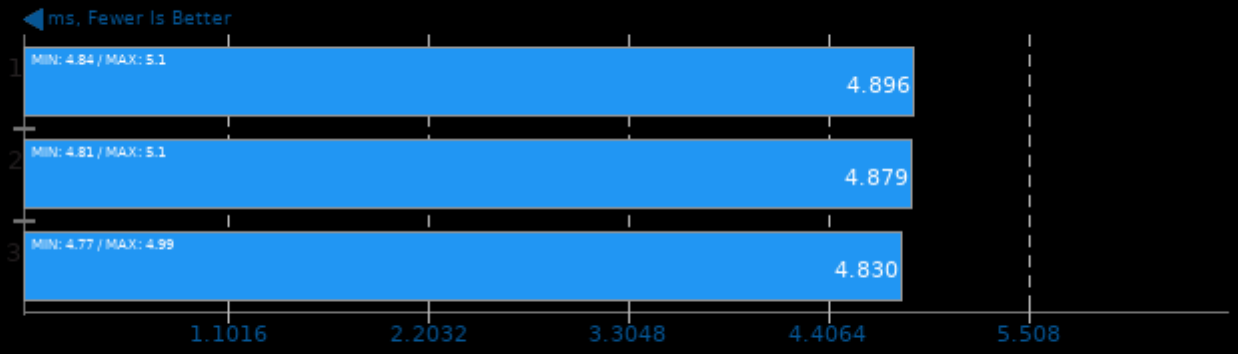
Model: resnet-v2-50



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv

Mobile Neural Network 1.1.3

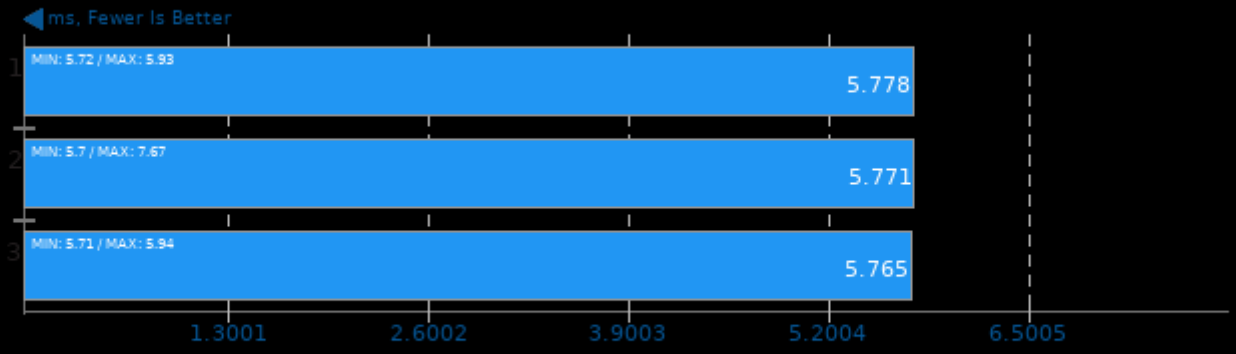
Model: MobileNetV2_224



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv

Mobile Neural Network 1.1.3

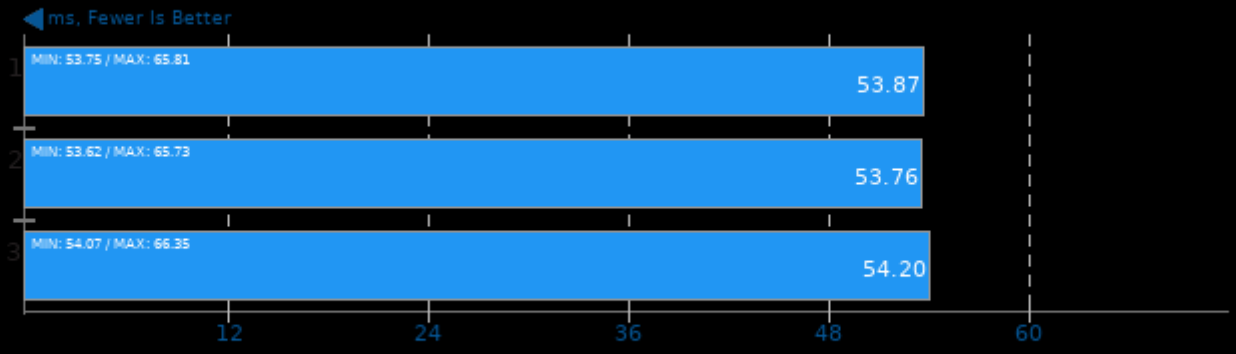
Model: mobilenet-v1-1.0



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv

Mobile Neural Network 1.1.3

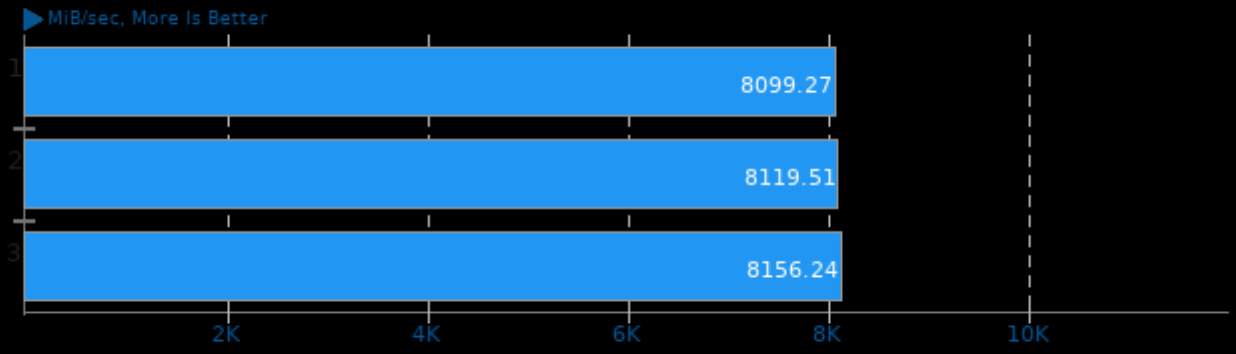
Model: inception-v3



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv

Sysbench 1.0.20

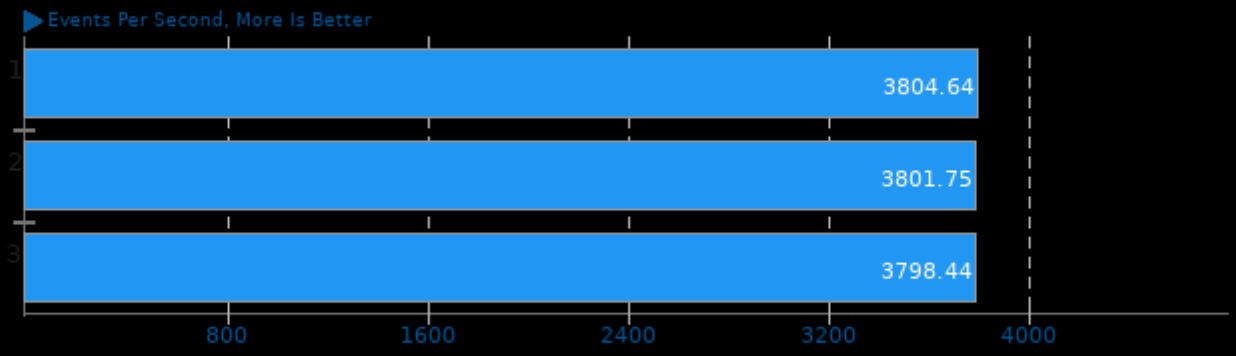
Test: RAM / Memory



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

Sysbench 1.0.20

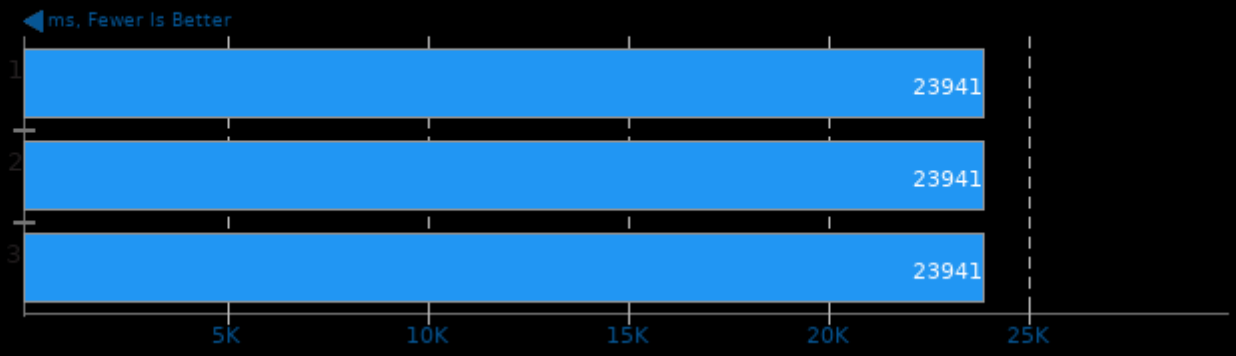
Test: CPU



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

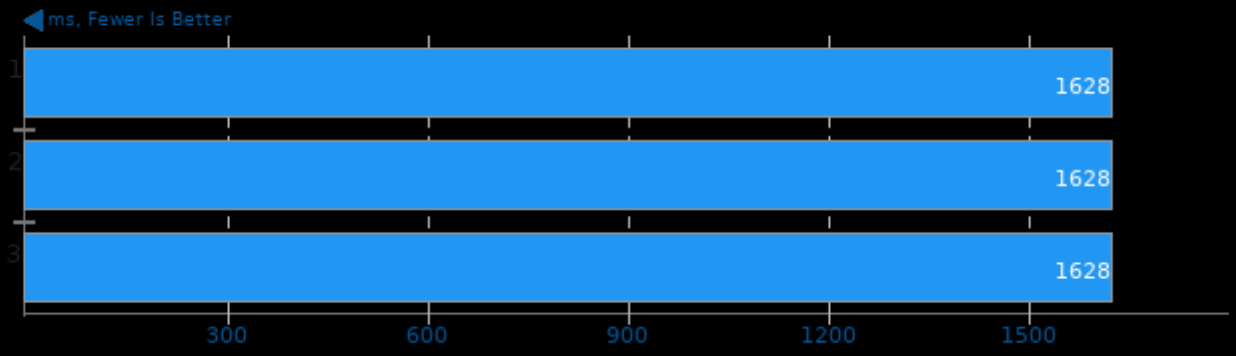
Systemd Total Boot Time

Test: Total

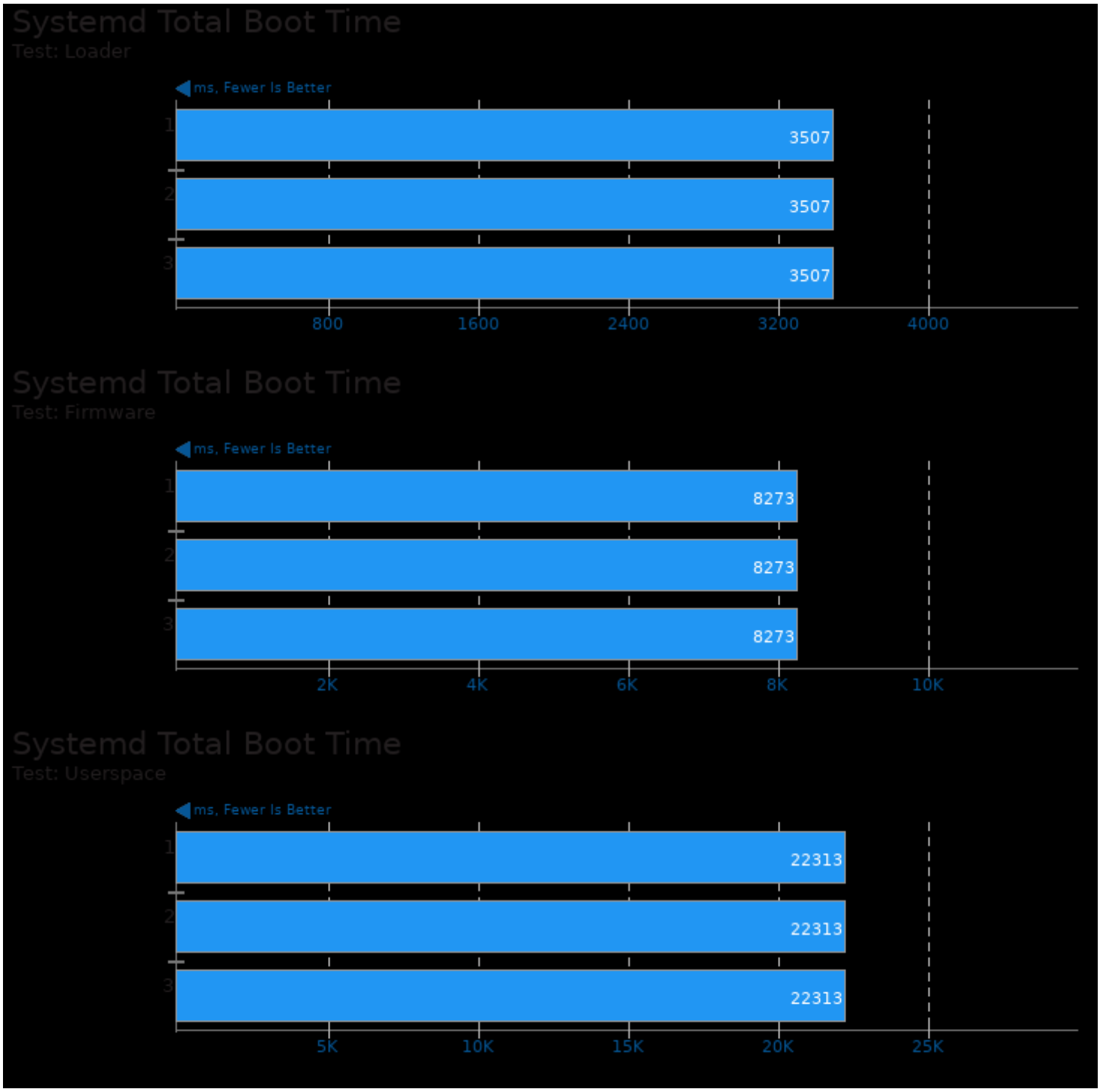


Systemd Total Boot Time

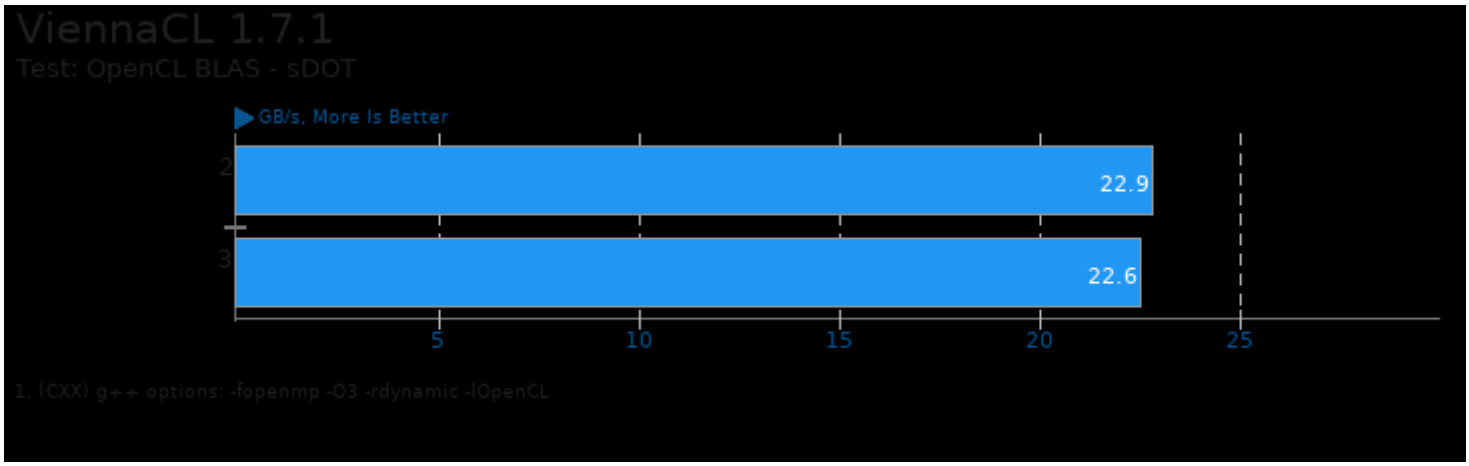
Test: Kernel



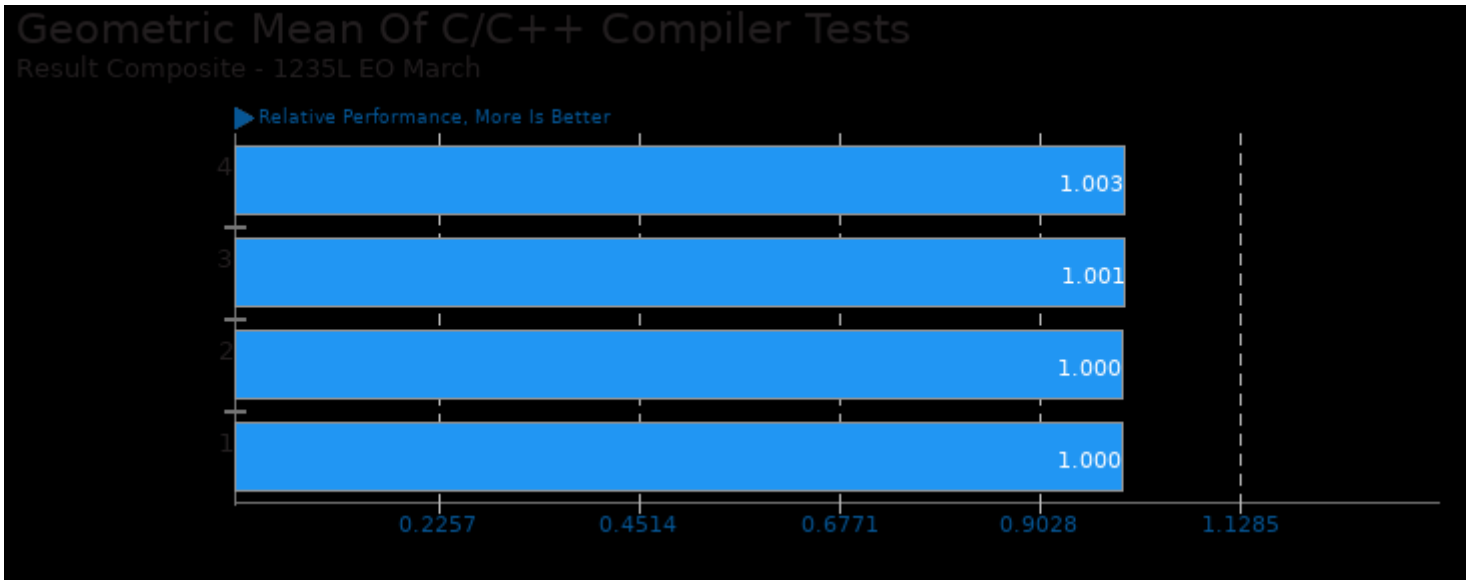
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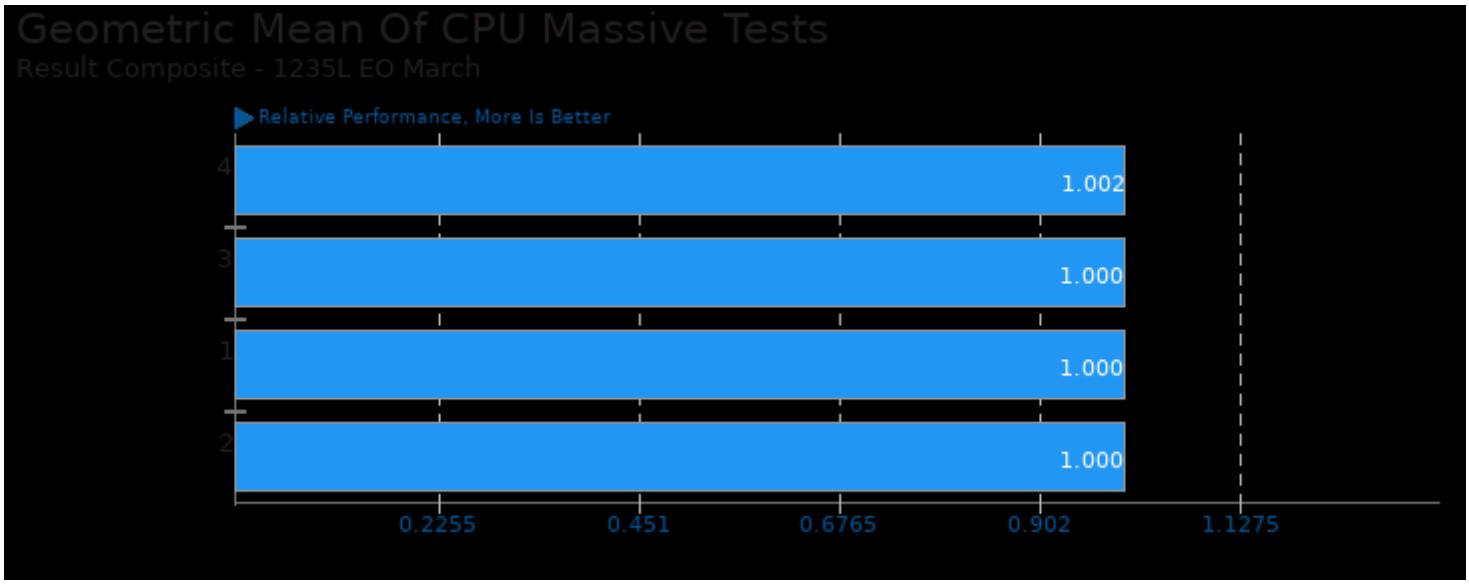
1235L EO March



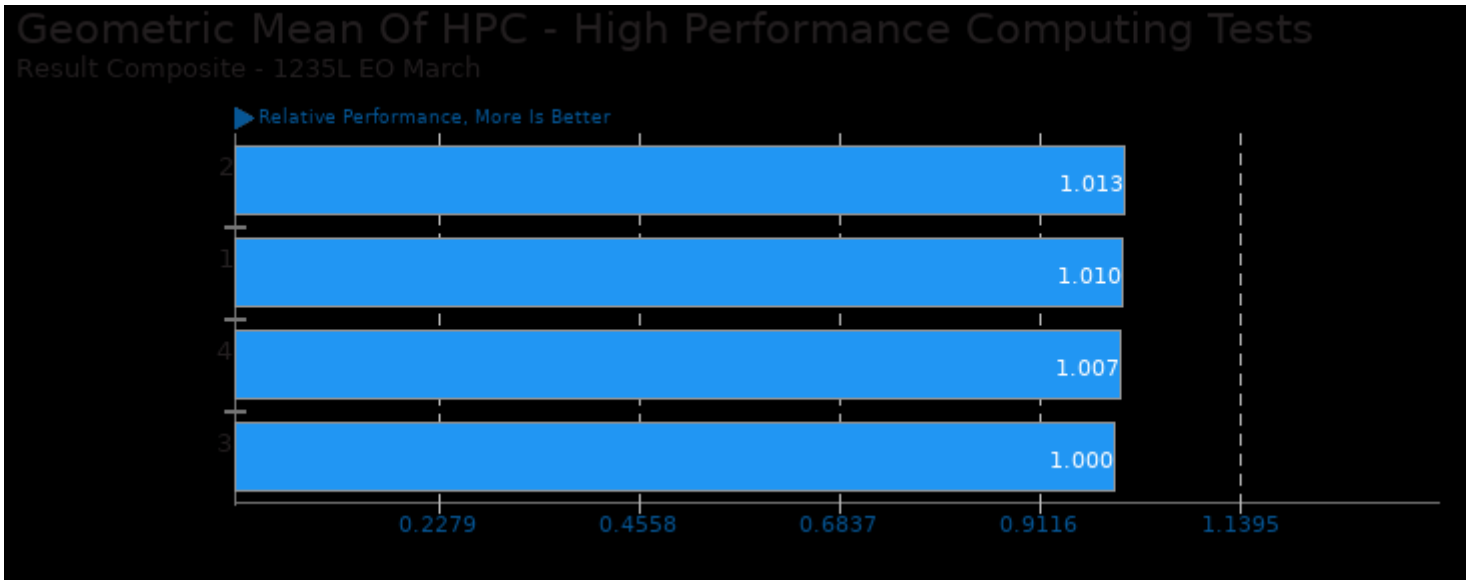
These geometric means are based upon test groupings / test suites for this result file.



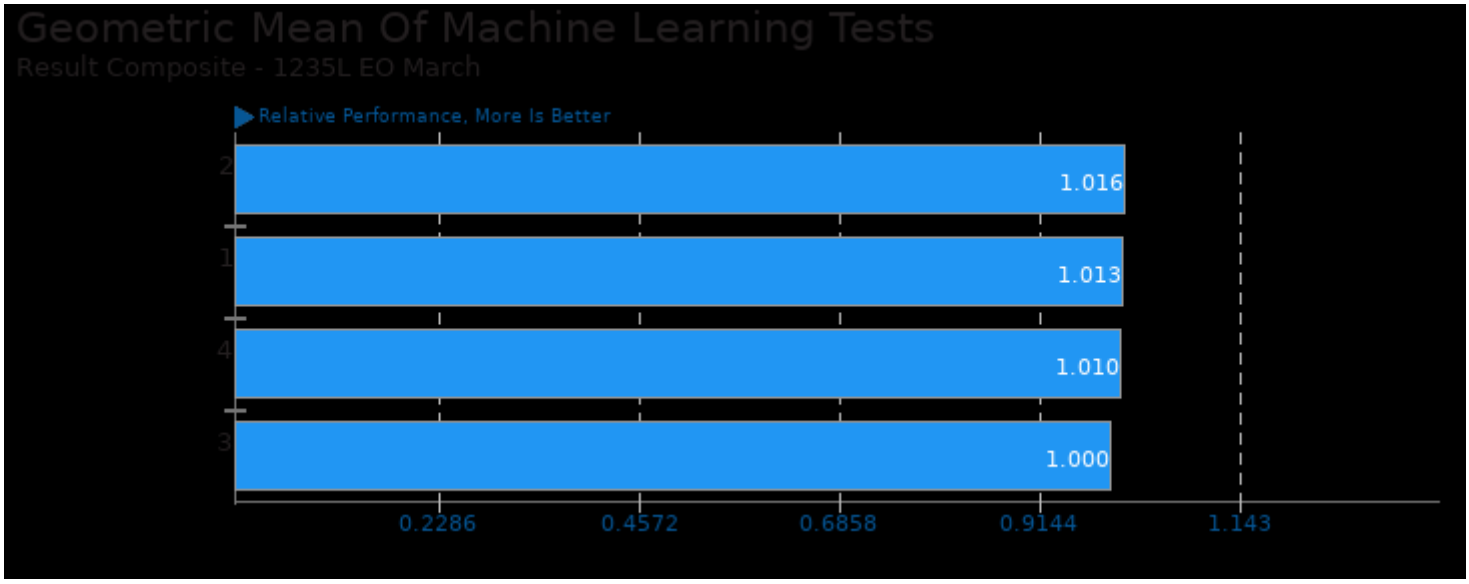
Geometric mean based upon tests: pts/stockfish, pts/dav1d, pts/compress-zstd, pts/aom-av1, pts/svt-vp9, pts/toybrot and pts/basis



Geometric mean based upon tests: pts/build-linux-kernel, pts/compress-zstd, pts/dav1d, pts/svt-hevc, pts/svt-vp9, pts/onednn, pts/stockfish, pts/sysbench and pts/botan

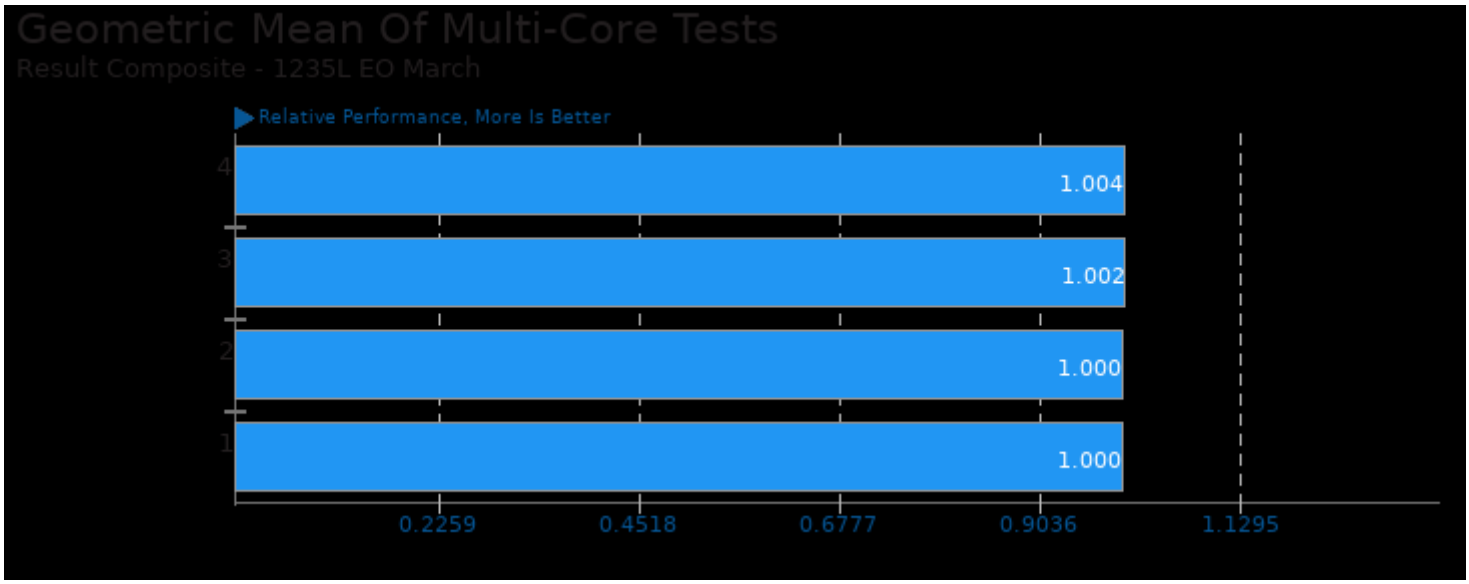


Geometric mean based upon tests: pts/incompact3d, pts/mnn, pts/shoc and pts/onednn

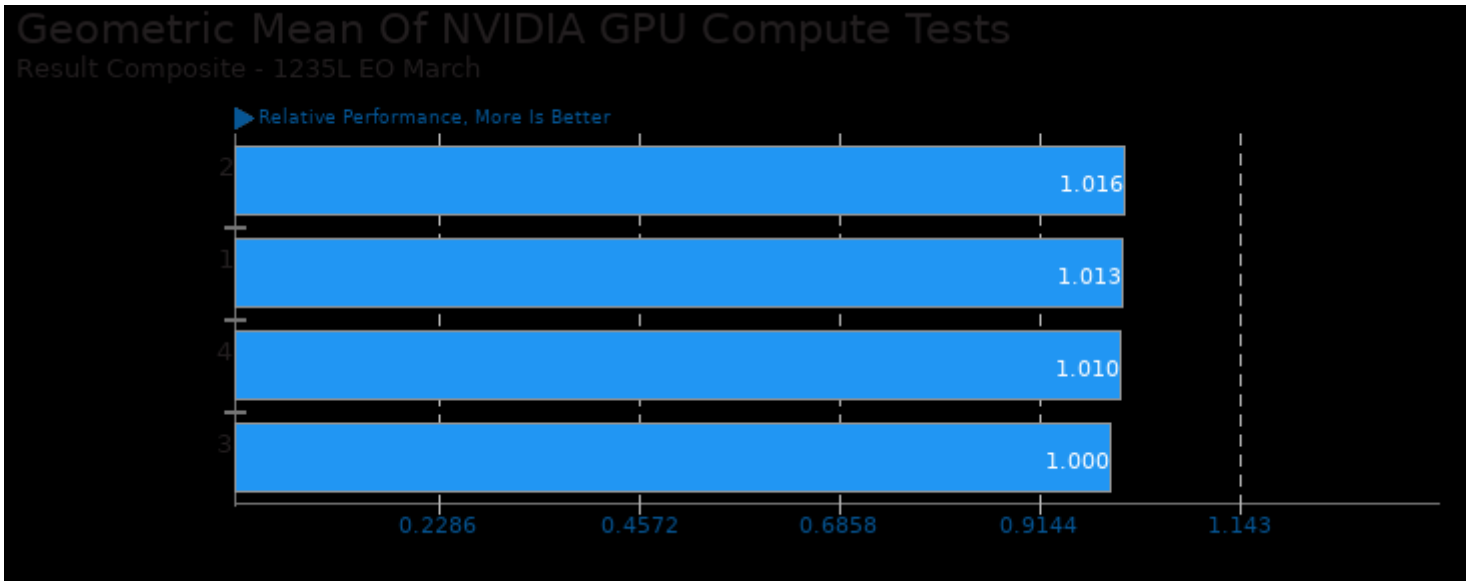


Geometric mean based upon tests: pts/mnn, pts/shoc and pts/onednn

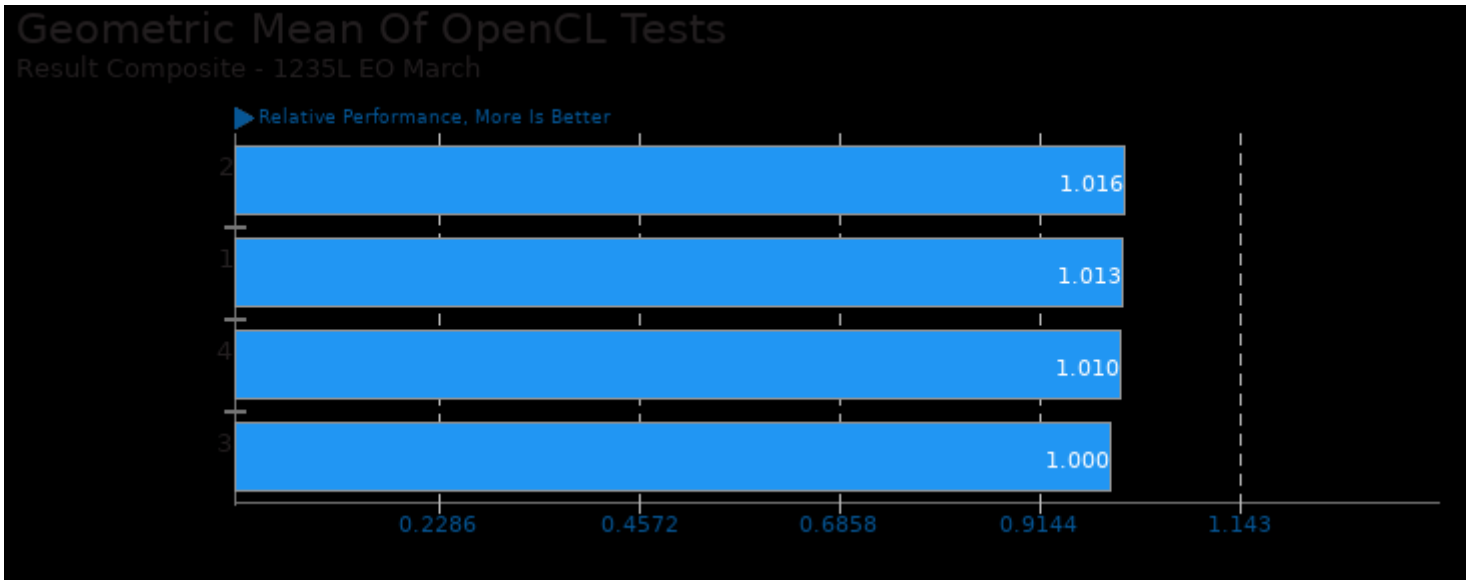
1235L EO March



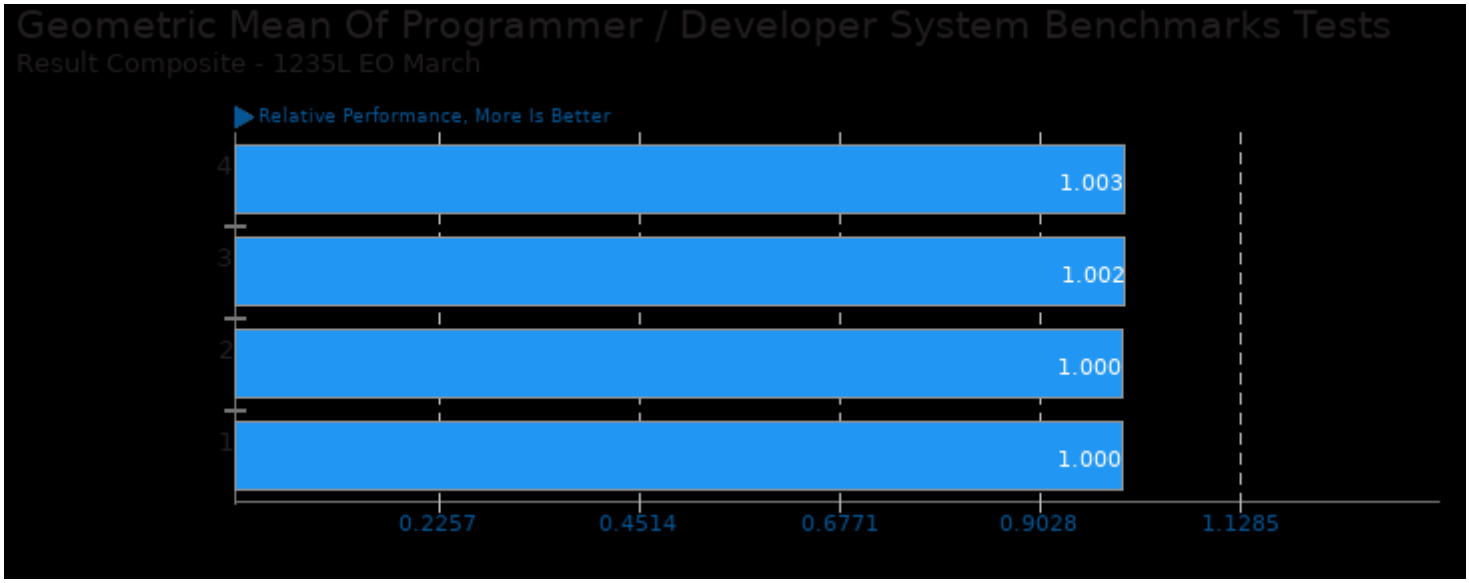
Geometric mean based upon tests: pts/sysbench, pts/stockfish, pts/svt-vp9, pts/svt-hevc, pts/dav1d, pts/aom-av1, pts/avifenc, pts/onednn, pts/compress-zstd, pts/build-linux-kernel, pts/build-erlang, pts/build-wasmer, pts/build-nodejs and pts/build-mesa



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

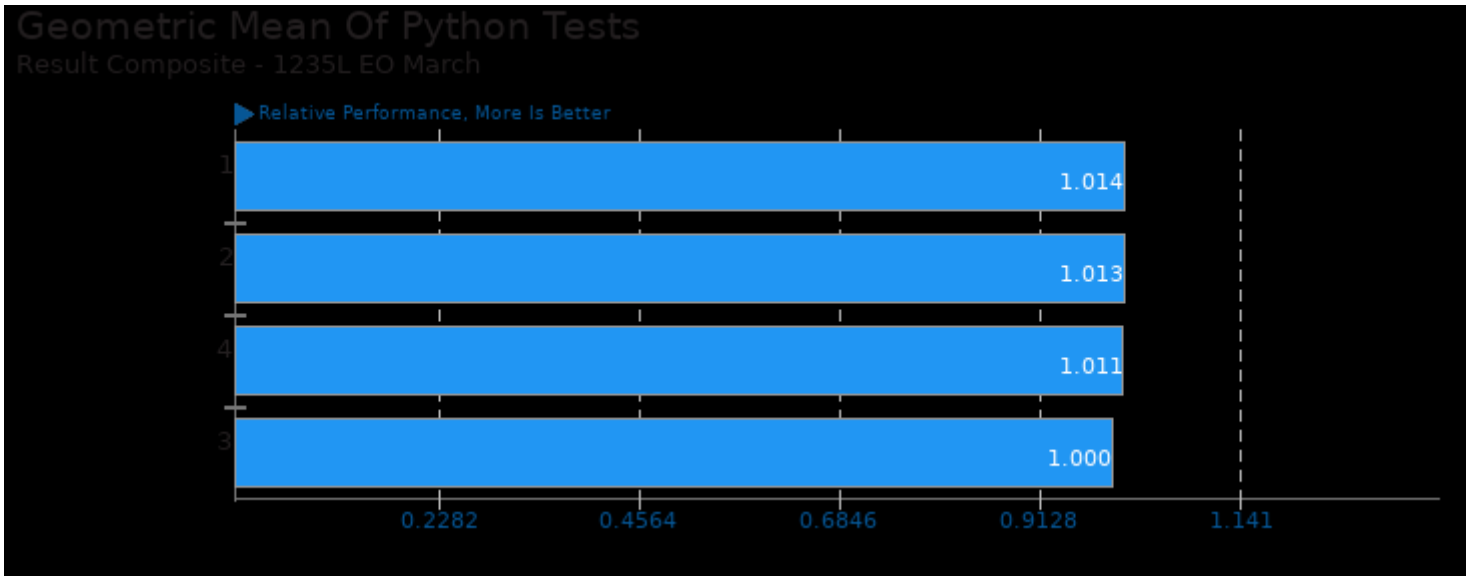


Geometric mean based upon tests: pts/shoc and pts/viennacl

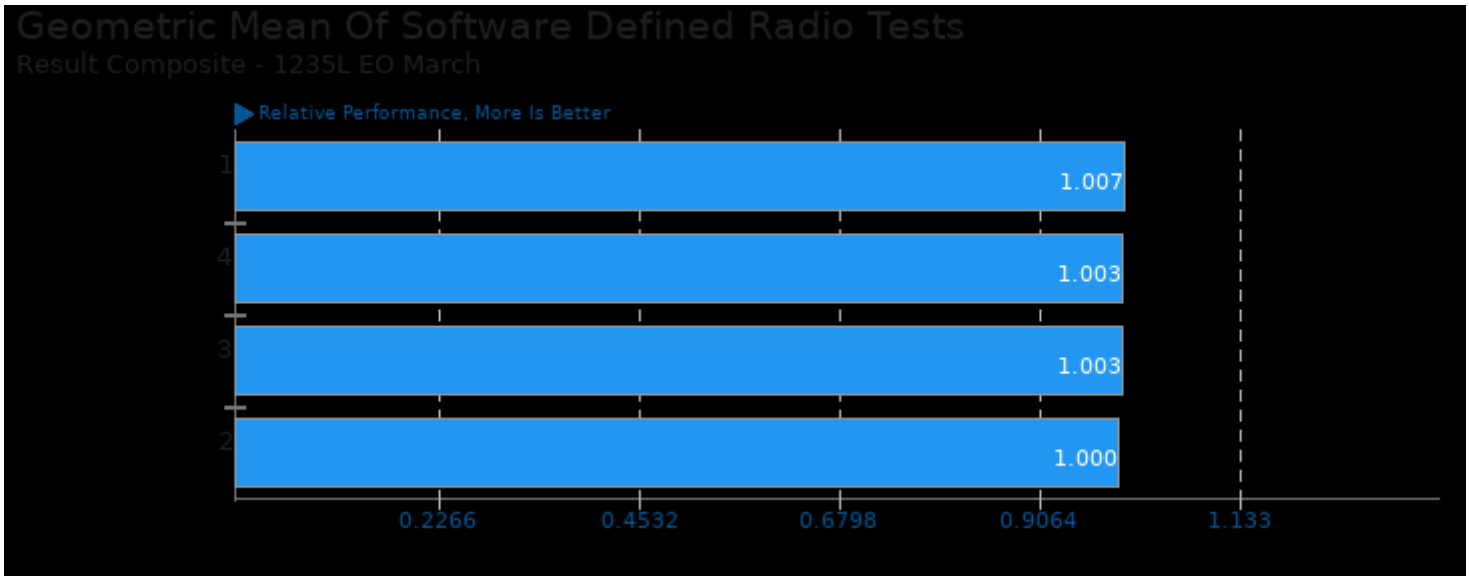


Geometric mean based upon tests: pts/simdjson, pts/compress-zstd, pts/build-linux-kernel, pts/build-erlang, pts/build-wasmer, pts/build-nodejs and pts/build-mesa

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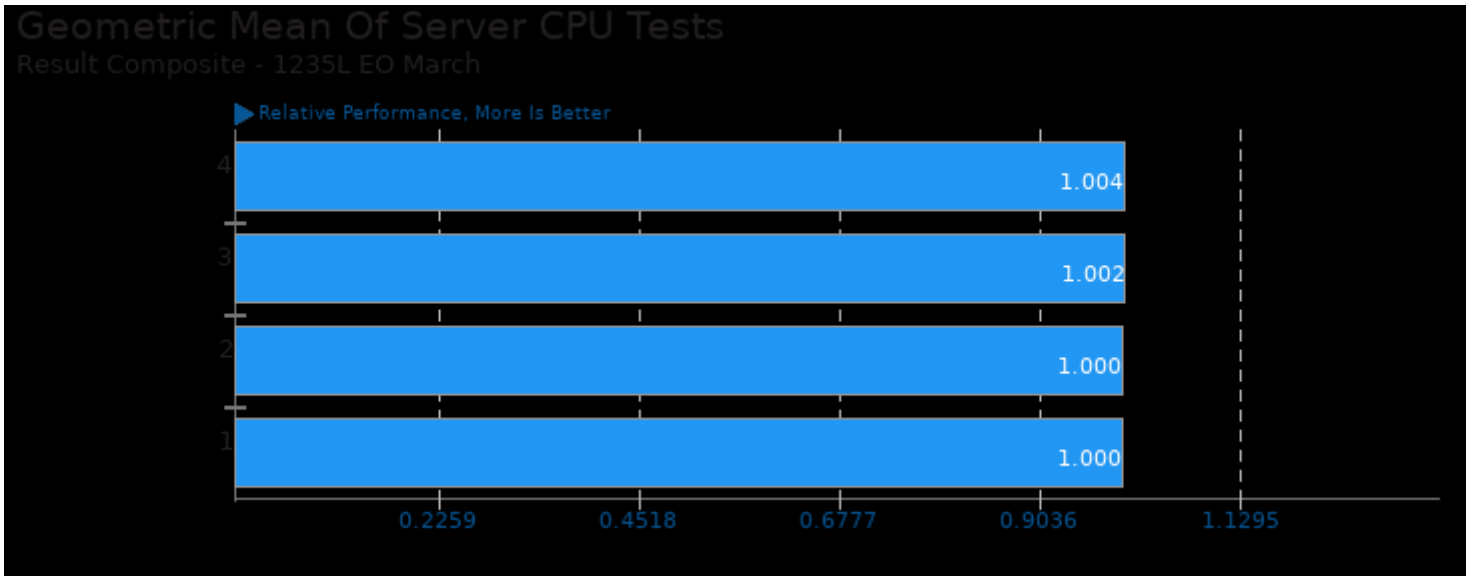


Geometric mean based upon tests: system/gnuradio, pts/build-mesa, pts/build-nodejs and pts/systemd-boot-total

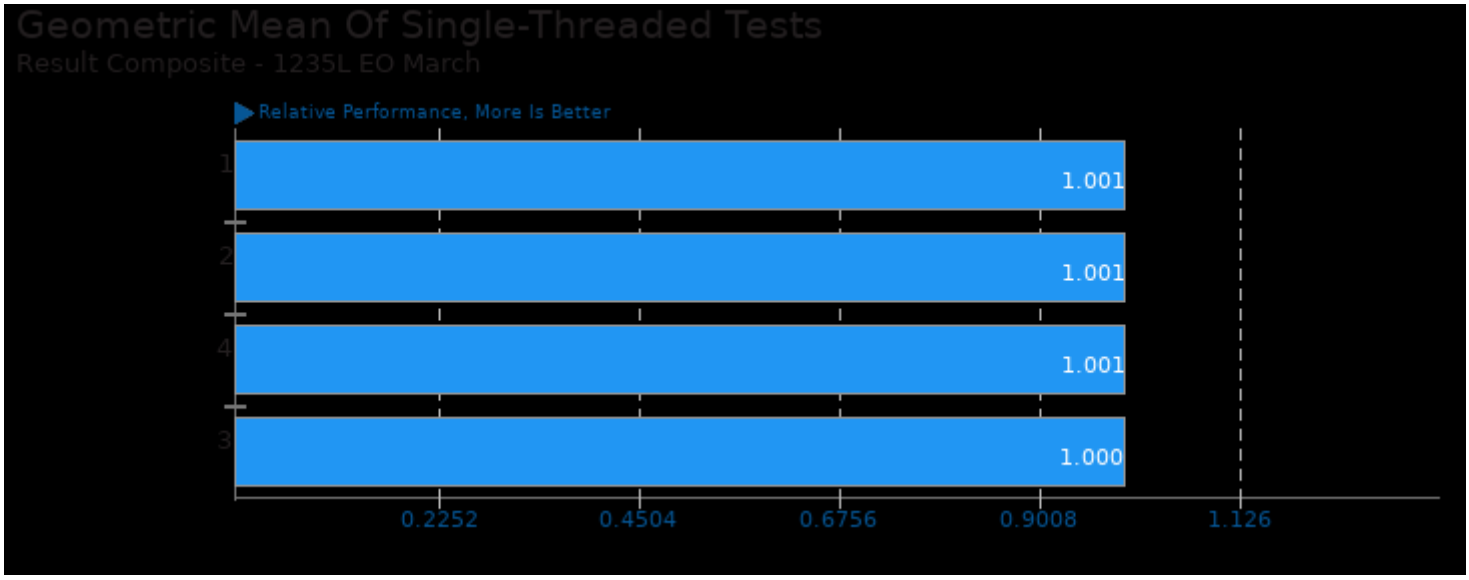


Geometric mean based upon tests: pts/liquid-dsp, pts/srslte, pts/luaradio and system/gnuradio

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Geometric mean based upon tests: pts/onednn, pts/svt-hevc, pts/svt-vp9, pts/dav1d, pts/stockfish, pts/build-linux-kernel, pts/compress-zstd and pts/sysbench



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:28.