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10100 may

Intel Core i3-10100 testing with a Gigabyte B460M DS3H (F2 BIOS) and Gigabyte Intel UHD 630 CML GT2 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

12 had the most wins, coming in first place for 35% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.003x the speed of the slowest (12). 2 was 0.999x the speed of 3 and 12 was 0.998x the speed of 2.

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

CP2K Molecular Dynamics (Input: Fayalite-FIST) at 1.105x
yquake2 (Renderer: OpenGL 3.x - Resolution: 1920 x 1080) at 1.097x
KTX-Software toktx (Settings: Zstd Compression 9) at 1.097x
AOM AV1 (Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K) at 1.05x
Xmrig (Variant: Monero - Hash Count: 1M) at 1.043x
AOM AV1 (Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K) at 1.032x
PJSIP (Method: OPTIONS, Stateless) at 1.023x
Embree (Binary: Pathtracer ISPC - Model: Asian Dragon Obj) at 1.022x
Embree (Binary: Pathtracer - Model: Asian Dragon Obj) at 1.019x

Xmrig (Variant: Wownero - Hash Count: 1M) at 1.018x.

Test Systems:

12

2

3

Processor: Intel Core i3-10100 @ 4.30GHz (4 Cores / 8 Threads), Motherboard: Gigabyte B460M DS3H (F2 BIOS), Chipset: Intel Device 9b63, Memory: 16GB, Disk: 500GB Western Digital WDS500G3X0C-00SJG0, Graphics: Gigabyte Intel UHD 630 CML GT2 3GB (1100MHz), Audio: Realtek ALC887-VD, Monitor: G237HL, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc7daily20201002-generic (x86_64) 20201001, Desktop: GNOME Shell 3.36.3, Display Server: X Server 1.20.8, OpenGL: 4.6 Mesa 20.0.8, OpenCL: OpenCL 2.1, Vulkan: 1.2.131, 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,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: 0xcc
Python Notes: Python 3.8.2
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

	12	2	3
vkpeak - fp32-scalar (GFLOPS)	**245.96**	**245.96**	**245.97**
Normalized	100%	100%	100%
vkpeak - fp32-vec4 (GFLOPS)	**309.07**	**309.07**	**309.08**
Normalized	100%	100%	100%
vkpeak - fp16-scalar (GFLOPS)	**406.77**	406.76	**406.74**
Normalized	100%	100%	99.99%
vkpeak - fp16-vec4 (GFLOPS)	**758.9**	**758.88**	**758.88**
Normalized	100%	100%	100%
vkpeak - fp64-scalar (GFLOPS)	92.12	92.12	92.12
vkpeak - fp64-vec4 (GFLOPS)	88.37	88.37	88.37
vkpeak - int32-scalar (GIOPS)	**121.23**	**121.22**	**121.23**
Normalized	100%	99.99%	100%
vkpeak - int32-vec4 (GIOPS)	**130.99**	**130.97**	130.98
Normalized	100%	99.98%	99.99%

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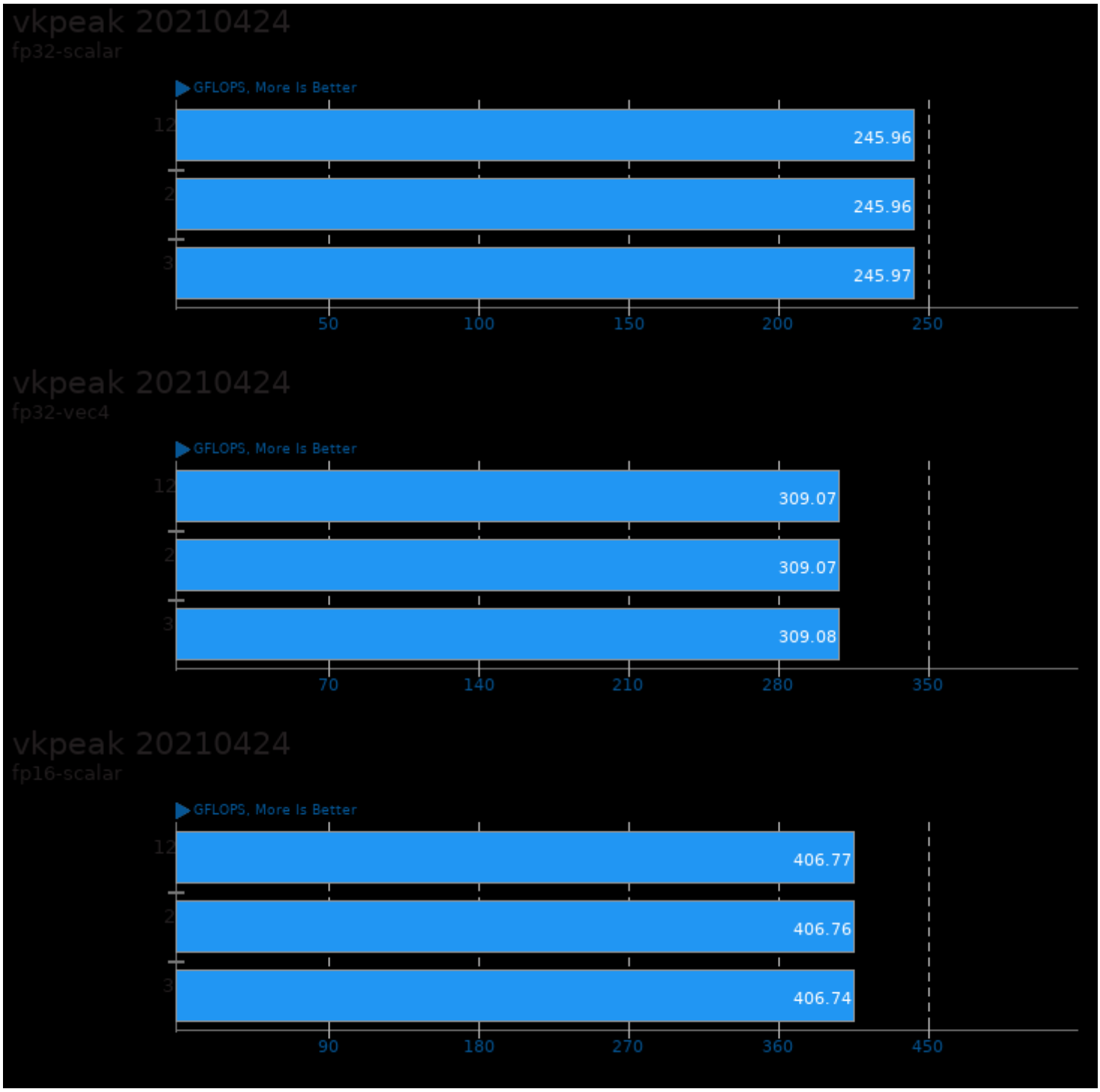
vkpeak - int16-scalar (GIOPS)	**132.56**	**132.55**	**132.55**
Normalized	100%	99.99%	99.99%
vkpeak - int16-vec4 (GIOPS)	133.76	133.76	133.76
yquake2 - OpenGL 1.x - 1920 x 1080 (FPS)	**259.1**	258.7	**256.4**
Normalized	100%	99.85%	98.96%
yquake2 - OpenGL 3.x - 1920 x 1080 (FPS)	297.6	**275.3**	**302.1**
Normalized	98.51%	91.13%	100%
yquake2 - Software CPU - 1920 x 1080 (FPS)	**111**	**111.4**	111.1
Normalized	99.64%	100%	99.73%
CP2K Molecular Dynamics - Fayalite-FIST	991.81	**1051**	**950.756**
Normalized	95.86%	90.48%	100%
Timed MrBayes Analysis - P.P.A (sec)	**115.058**	**115.672**	115.192
Normalized	100%	99.47%	99.88%
QMCPACK - simple-H2O (Execution Time - sec)	**27.967**	**27.637**	27.818
Normalized	98.82%	100%	99.35%
Timed HMMer Search - P.D.S (sec)	136.305	**136.295**	**136.442**
Normalized	99.99%	100%	99.89%
libgav1 - Chimera 1080p (FPS)	**161.37**	162.01	**162.16**
Normalized	99.51%	99.91%	100%
libgav1 - Summer Nature 4K (FPS)	**46.5**	**46.83**	46.71
Normalized	99.3%	100%	99.74%
libgav1 - S.N.1 (FPS)	**182.25**	**183.63**	182.56
Normalized	99.25%	100%	99.42%
libgav1 - C.1.1.b (FPS)	**43.01**	**43.19**	43.02
Normalized	99.58%	100%	99.61%
Xmrig - Monero - 1M (H/s)	978.8	**992.7**	**951.8**
Normalized	98.6%	100%	95.88%
Xmrig - Wownero - 1M (H/s)	**1416**	**1442**	1437
Normalized	98.23%	100%	99.67%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 4K (FPS)	0.07	0.07	0.07
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	**1.9**	**1.91**	**1.91**
Normalized	99.48%	100%	100%
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	7.51	**7.57**	**7.48**
Normalized	99.21%	100%	98.81%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	3.57	3.57	3.57
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	23.72	**24.29**	**23.54**
Normalized	97.65%	100%	96.91%
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	34.3	**35.86**	**34.14**
Normalized	95.65%	100%	95.2%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 1080p (FPS)	0.22	0.22	0.22
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)	**4.23**	**4.24**	**4.24**
Normalized	99.76%	100%	100%

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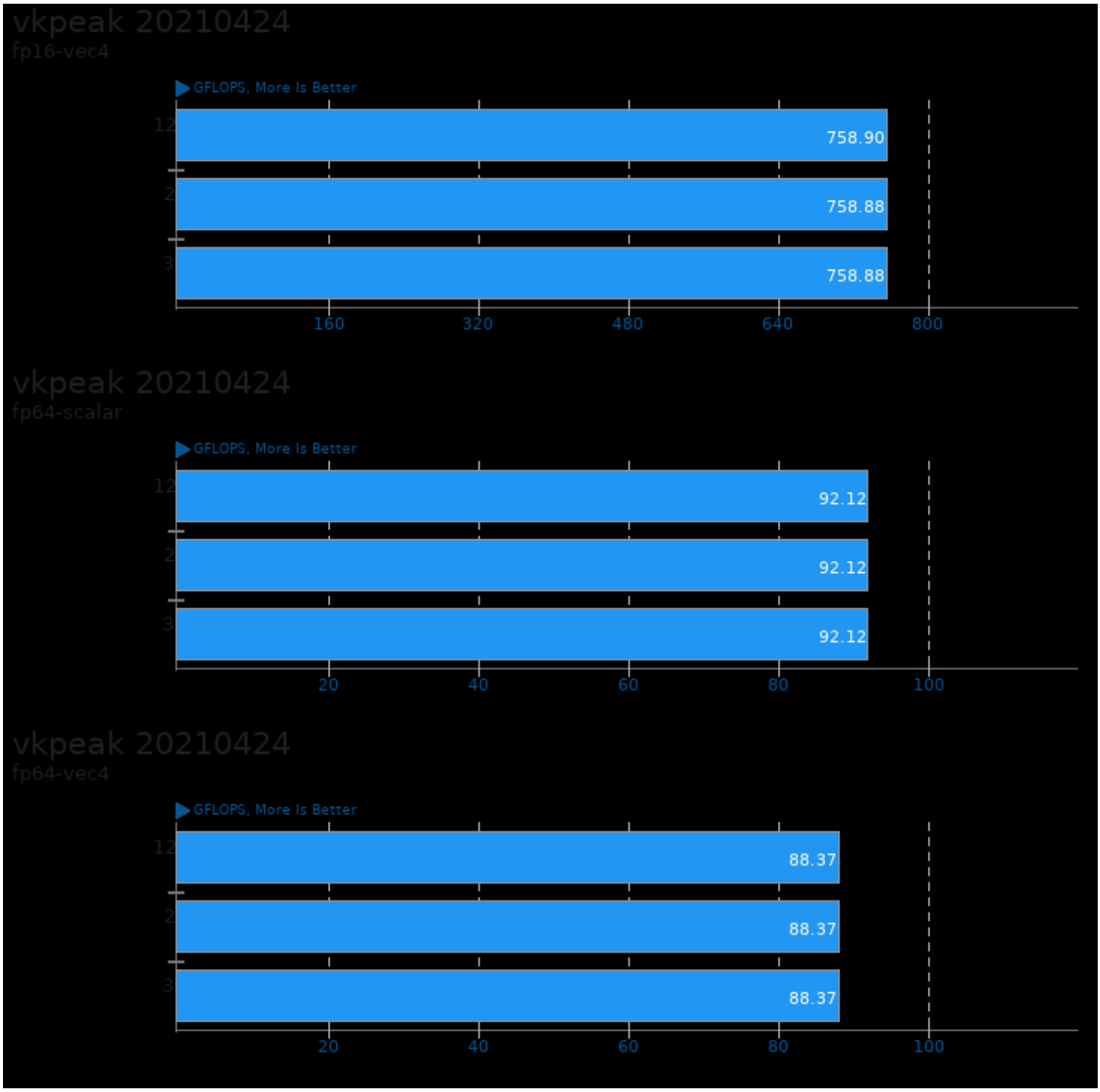
AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)	**13.89**	**13.95**	13.94
Normalized	99.57%	100%	99.93%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)	**11.46**	**11.41**	11.44
Normalized	100%	99.56%	99.83%
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)	79.77	**80.81**	**79.53**
Normalized	98.71%	100%	98.42%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)	99.42	**100.61**	**98.86**
Normalized	98.82%	100%	98.26%
Embree - Pathtracer - Crown (FPS)	**4.5221**	4.5507	**4.572**
Normalized	98.91%	99.53%	100%
Embree - Pathtracer ISPC - Crown (FPS)	**5.2635**	5.2788	**5.3131**
Normalized	99.07%	99.35%	100%
Embree - Pathtracer - Asian Dragon (FPS)	**5.5921**	**5.553**	5.5563
Normalized	100%	99.3%	99.36%
Embree - Pathtracer - Asian Dragon Obj	**5.1039**	5.1333	**5.1984**
Normalized	98.18%	98.75%	100%
Embree - Pathtracer ISPC - Asian Dragon (FPS)	**6.536**	6.5479	**6.5509**
Normalized	99.77%	99.95%	100%
Embree - Pathtracer ISPC - Asian Dragon Obj (FPS)	5.7943	**5.7691**	**5.8967**
Normalized	98.26%	97.84%	100%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	**0.781**	**0.786**	0.782
Normalized	99.36%	100%	99.49%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**8.16**	**8.16**	**8.153**
Normalized	100%	100%	99.91%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**2.448**	2.455	**2.456**
Normalized	99.67%	99.96%	100%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	28.234	**28.287**	**28.108**
Normalized	99.81%	100%	99.37%
PJSIP - INVITE (Responses/sec)	**4009**	**4009**	**4002**
Normalized	100%	100%	99.83%
PJSIP - OPTIONS, Stateful (Responses/sec)	**7990**	7988	**7978**
Normalized	100%	99.97%	99.85%
PJSIP - OPTIONS, Stateless (Responses/sec)	**73006**	**71343**	71397
Normalized	100%	97.72%	97.8%
Timed LLVM Compilation - Ninja (sec)	**1609**	1607	**1606**
Normalized	99.82%	99.95%	100%
Timed LLVM Compilation - Unix Makefiles	**1636**	1631	**1624**
Normalized	99.27%	99.59%	100%
Helsing - 12 digit (sec)	**11.016**	**11.063**	11.029
Normalized	100%	99.58%	99.88%
Helsing - 14 digit (sec)	1126	**1122**	**1131**
Normalized	99.67%	100%	99.24%
VOSK Speech Recognition Toolkit (sec)	**20.763**	20.745	**20.682**
Normalized	99.61%	99.7%	100%
SecureMark - SecureMark-TLS (marks)	**253549**	**253261**	253337
Normalized	100%	99.89%	99.92%

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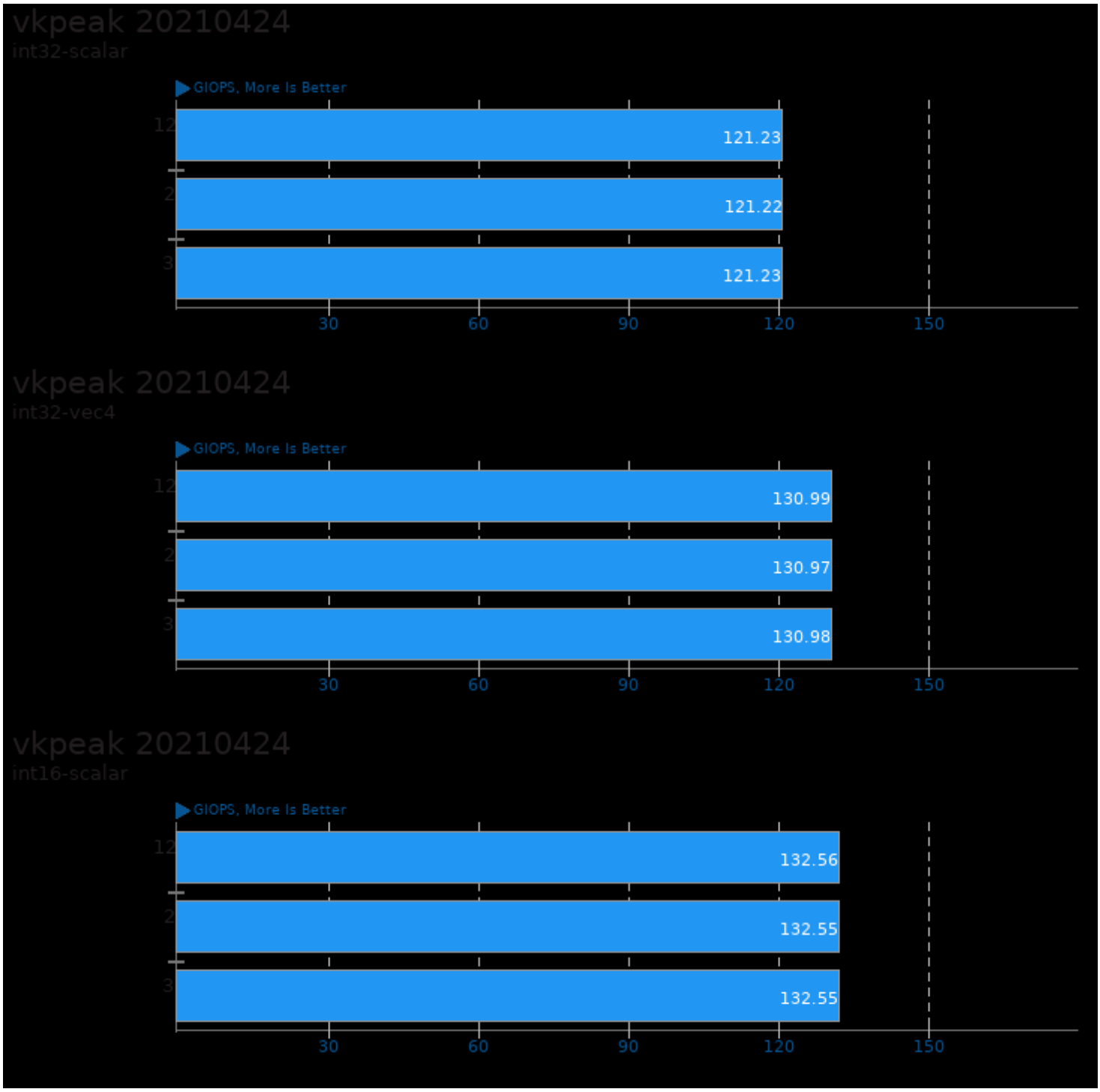
libjpeg-turbo tjbench - D.T (Megapixels/sec)	**198.029527**	198.152791	**198.314659**
Normalized	99.86%	99.92%	100%
KTX-Software toktx - UASTC 3 (sec)	**25.788**	**25.776**	25.787
Normalized	99.95%	100%	99.96%
KTX-Software toktx - Zstd Compression 9	**3.474**	3.197	**3.167**
Normalized	91.16%	99.06%	100%
KTX-Software toktx - Z.C.1 (sec)	**20.56**	**20.745**	20.574
Normalized	100%	99.11%	99.93%
KTX-Software toktx - U.3.Z.C.1 (sec)	31.44	**31.433**	**31.478**
Normalized	99.98%	100%	99.86%
KTX-Software toktx - U.4.Z.C.1 (sec)	**757.066**	**756.919**	**756.919**
Normalized	99.98%	100%	100%
Google Draco - Lion (ms)	**5275**	5251	**5215**
Normalized	98.86%	99.31%	100%
Google Draco - Church Facade (ms)	**7860**	7852	**7835**
Normalized	99.68%	99.78%	100%


vkpeak 20210424
fp32-scalar
GFLOPS, More Is Better
1
2
3
245.96
245.96
245.97
50
100
150
200
250
vkpeak 20210424
fp32-vec4
GFLOPS, More Is Better
1
2
3
309.07
309.07
309.08
70
140
210
280
350
vkpeak 20210424
fp16-scalar
GFLOPS, More Is Better
1
2
3
406.77
406.76
406.74
90
180
270
360
450

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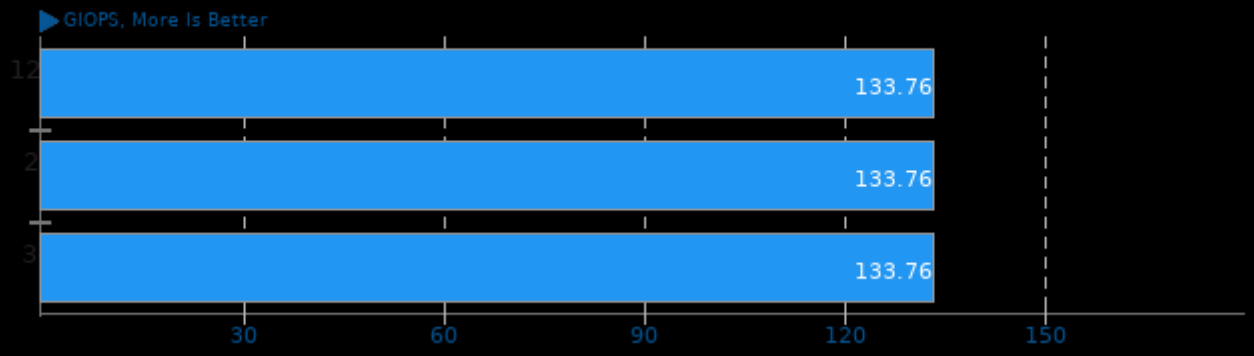

vkpeak 20210424
fp16-vec4
GFLOPS, More Is Better
1
758.90
2
758.88
3
758.88
160
320
480
640
800
vkpeak 20210424
fp64-scalar
GFLOPS, More Is Better
1
92.12
2
92.12
3
92.12
20
40
60
80
100
vkpeak 20210424
fp64-vec4
GFLOPS, More Is Better
1
88.37
2
88.37
3
88.37
20
40
60
80
100

10100 may


vkpeak 20210424
int32-scalar
GIOPS, More Is Better
1
121.23
2
121.22
3
121.23
30
60
90
120
150
vkpeak 20210424
int32-vec4
GIOPS, More Is Better
1
130.99
2
130.97
3
130.98
30
60
90
120
150
vkpeak 20210424
int16-scalar
GIOPS, More Is Better
1
132.56
2
132.55
3
132.55
30
60
90
120
150

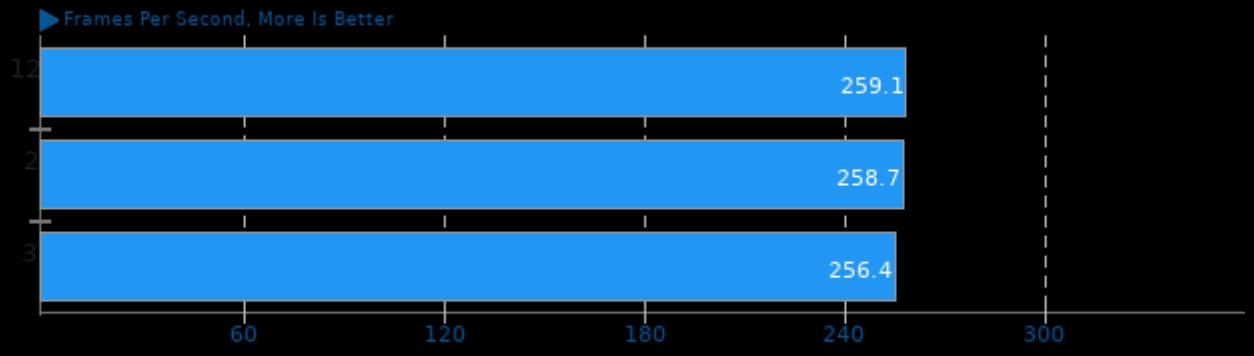
vkpeak 20210424

int16-vec4



yquake2 7.45

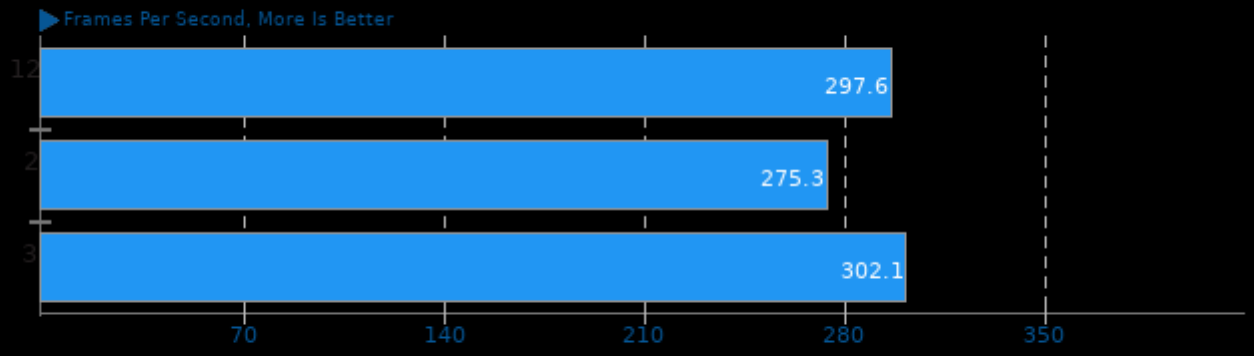
Renderer: OpenGL 1.x - Resolution: 1920 x 1080



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

yquake2 7.45

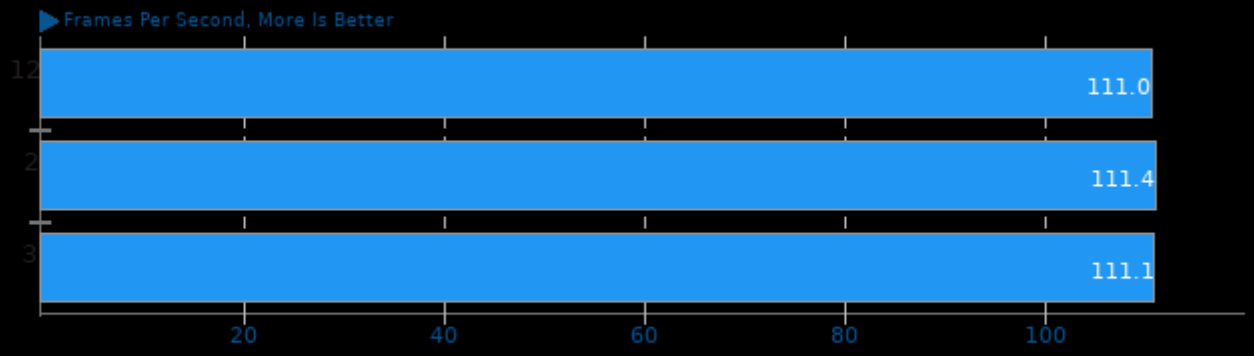
Renderer: OpenGL 3.x - Resolution: 1920 x 1080



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

yquake2 7.45

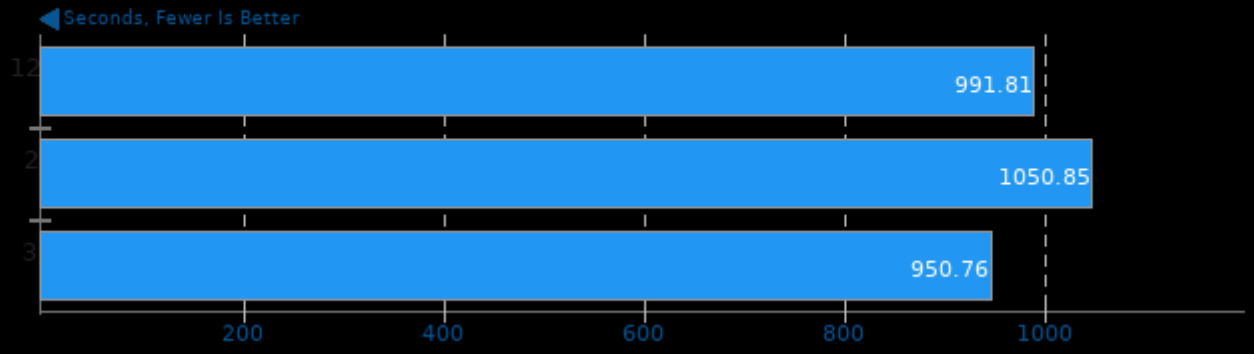
Renderer: Software CPU - Resolution: 1920 x 1080



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

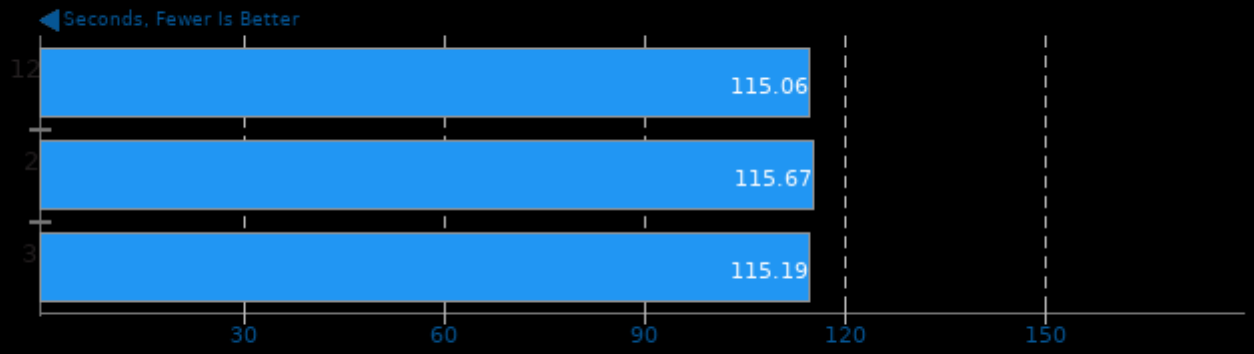
CP2K Molecular Dynamics 8.1

Input: Fayalite-FIST



Timed MrBayes Analysis 3.2.7

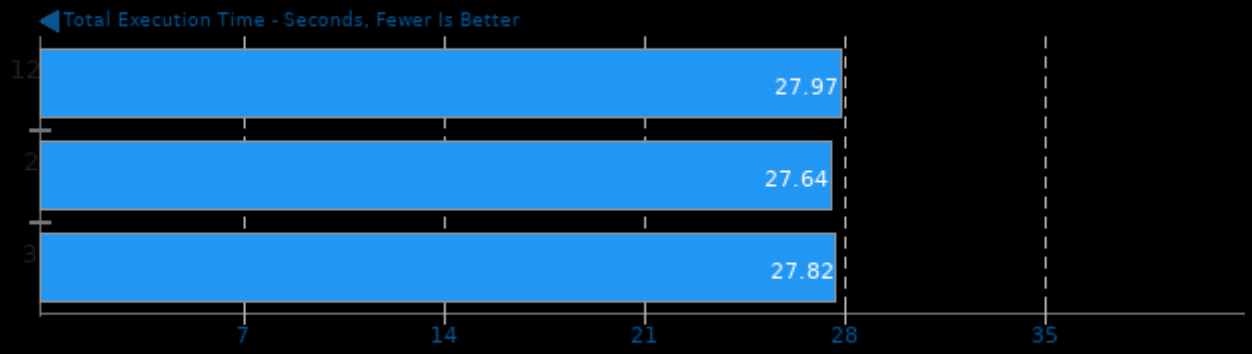
Primate Phylogeny Analysis



1. (CC) gcc options: -mmmx -msse -msse2 -msse3 -mssse3 -msse4.1 -msse4.2 -maes -mavx -mfma -mavx2 -mrdrnd -mbmi -mbmi2 -madx -mmpx -mabm

QMCPACK 3.11

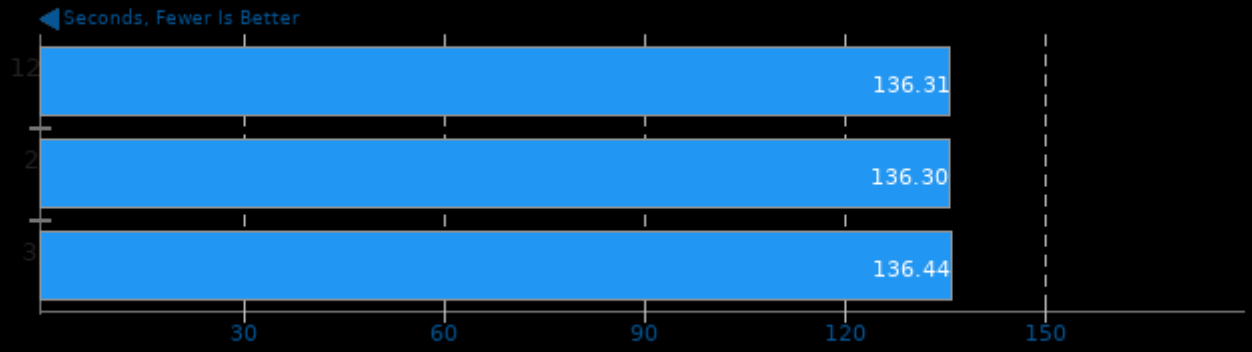
Input: simple-H2O



1. (CXX) g++ options: -fopenmp -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -march=native -O3 -fomit-frame-pointer -ffast-math -pthread -lm

Timed HMMer Search 3.3.2

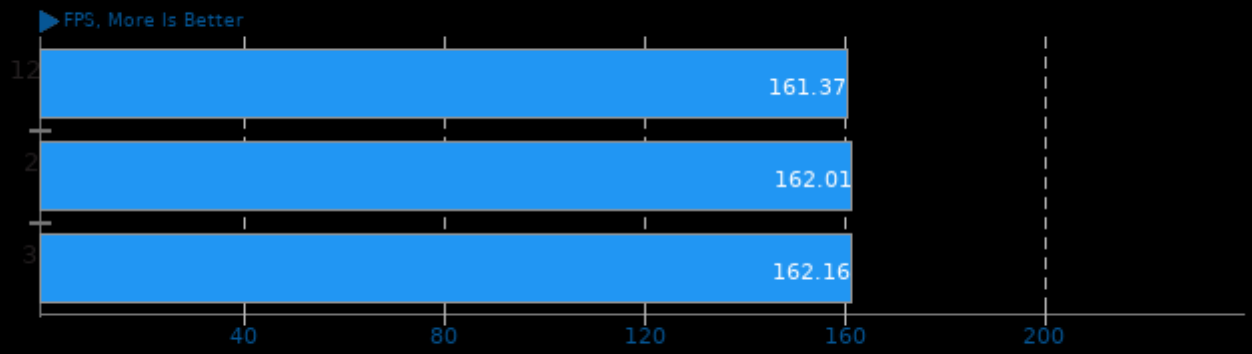
Pfam Database Search



1. (CC) gcc options: -O3 -pthread -lhmmer -leasel -lm -lmpi

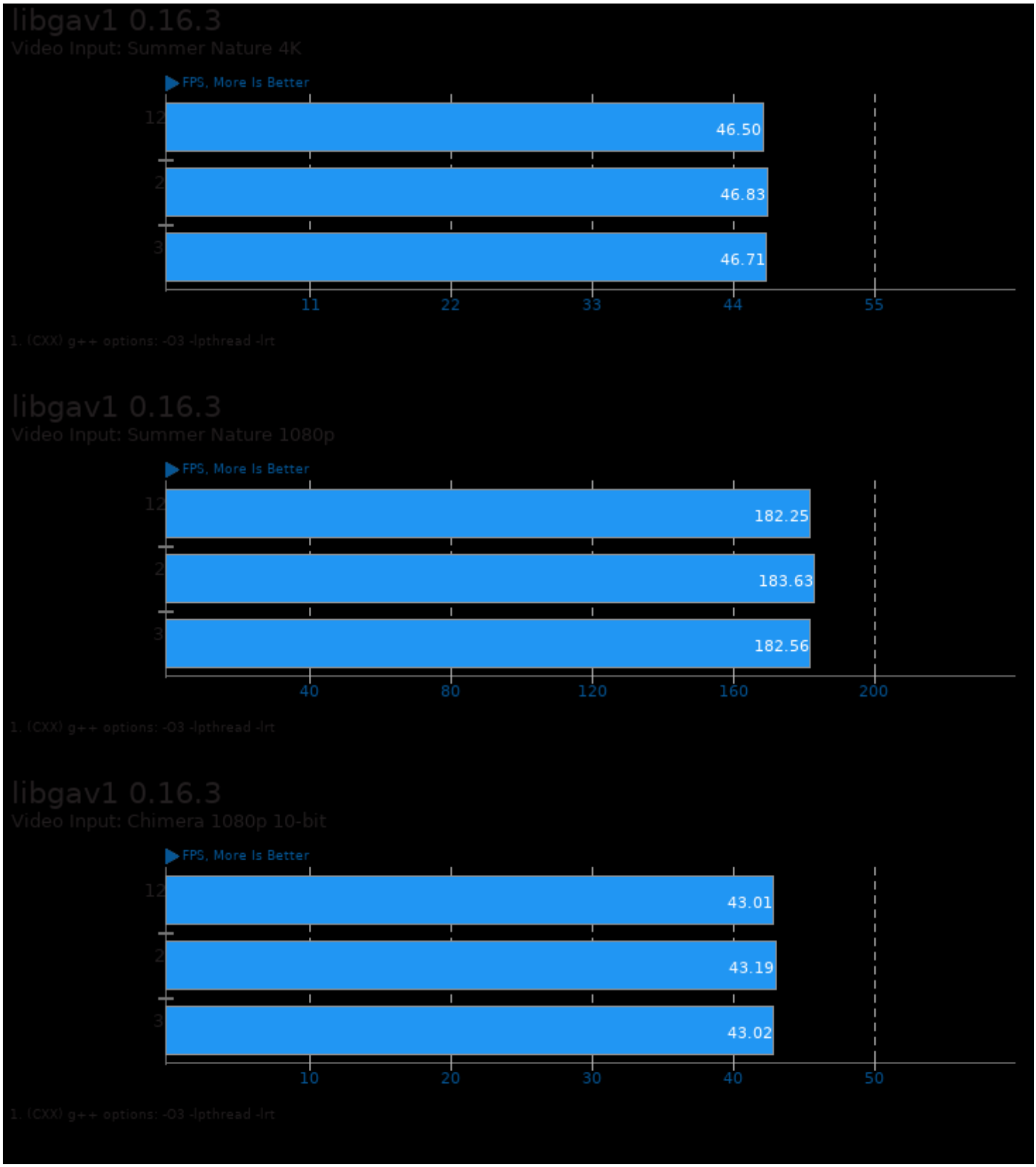
libgav1 0.16.3

Video Input: Chimera 1080p



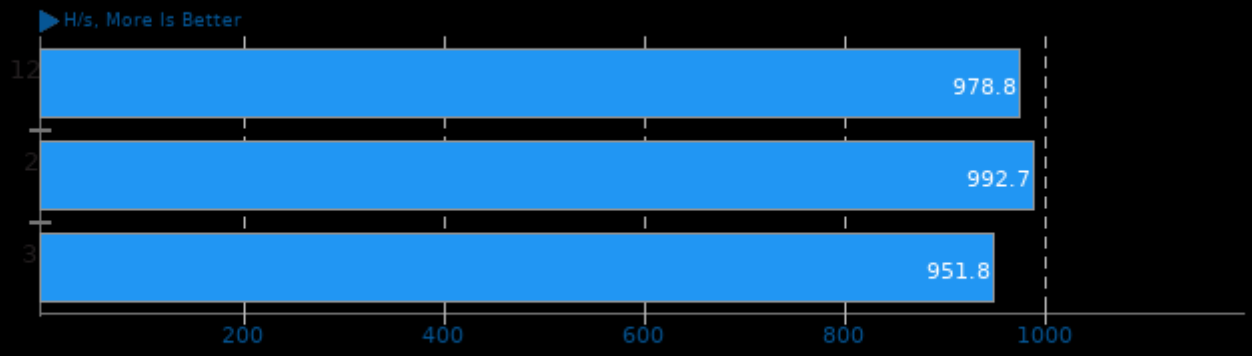
1. (CXX) g++ options: -O3 -lpthread -lrt

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libgav1 0.16.3
Video Input: Summer Nature 4K
FPS, More Is Better
12
46.50
2
46.83
3
46.71
11
22
33
44
55
1. (CXX) g++ options: -O3 -lpthread -lrt
libgav1 0.16.3
Video Input: Summer Nature 1080p
FPS, More Is Better
12
182.25
2
183.63
3
182.56
40
80
120
160
200
1. (CXX) g++ options: -O3 -lpthread -lrt
libgav1 0.16.3
Video Input: Chimera 1080p 10-bit
FPS, More Is Better
12
43.01
2
43.19
3
43.02
10
20
30
40
50
1. (CXX) g++ options: -O3 -lpthread -lrt

Xmrig 6.12.1

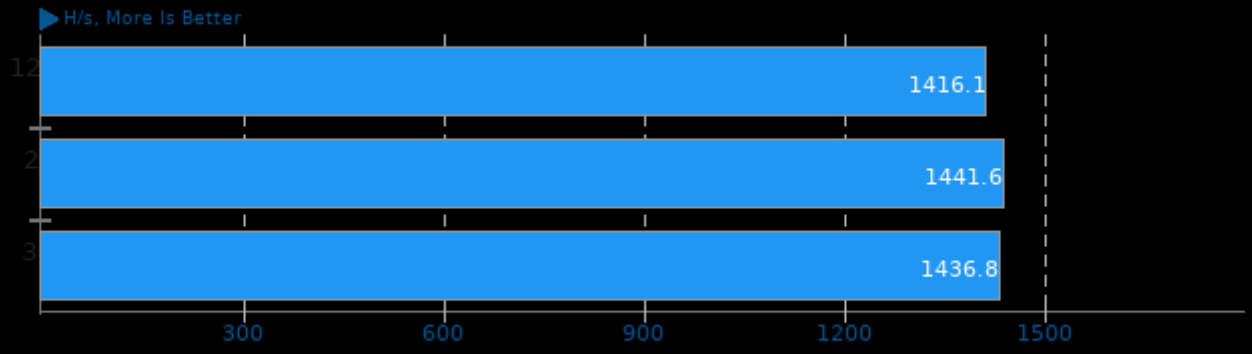
Variant: Monero - Hash Count: 1M



1. (CXX) g++ options: -fexceptions -fno-rtti -maes -O3 -Ofast -static-libgcc -static-libstdc++ -rdynamic -lssl -lcrypto -luv -lpthread -lrt -ldl -lhwloc

Xmrig 6.12.1

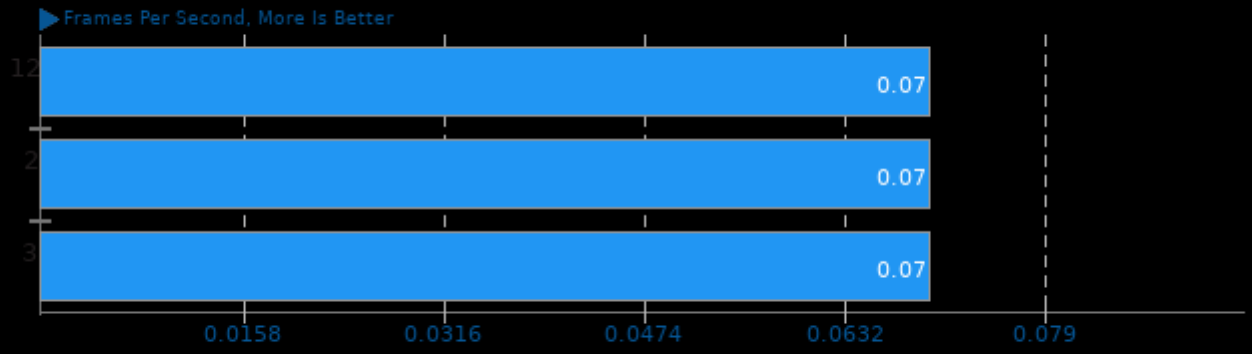
Variant: Wownero - Hash Count: 1M



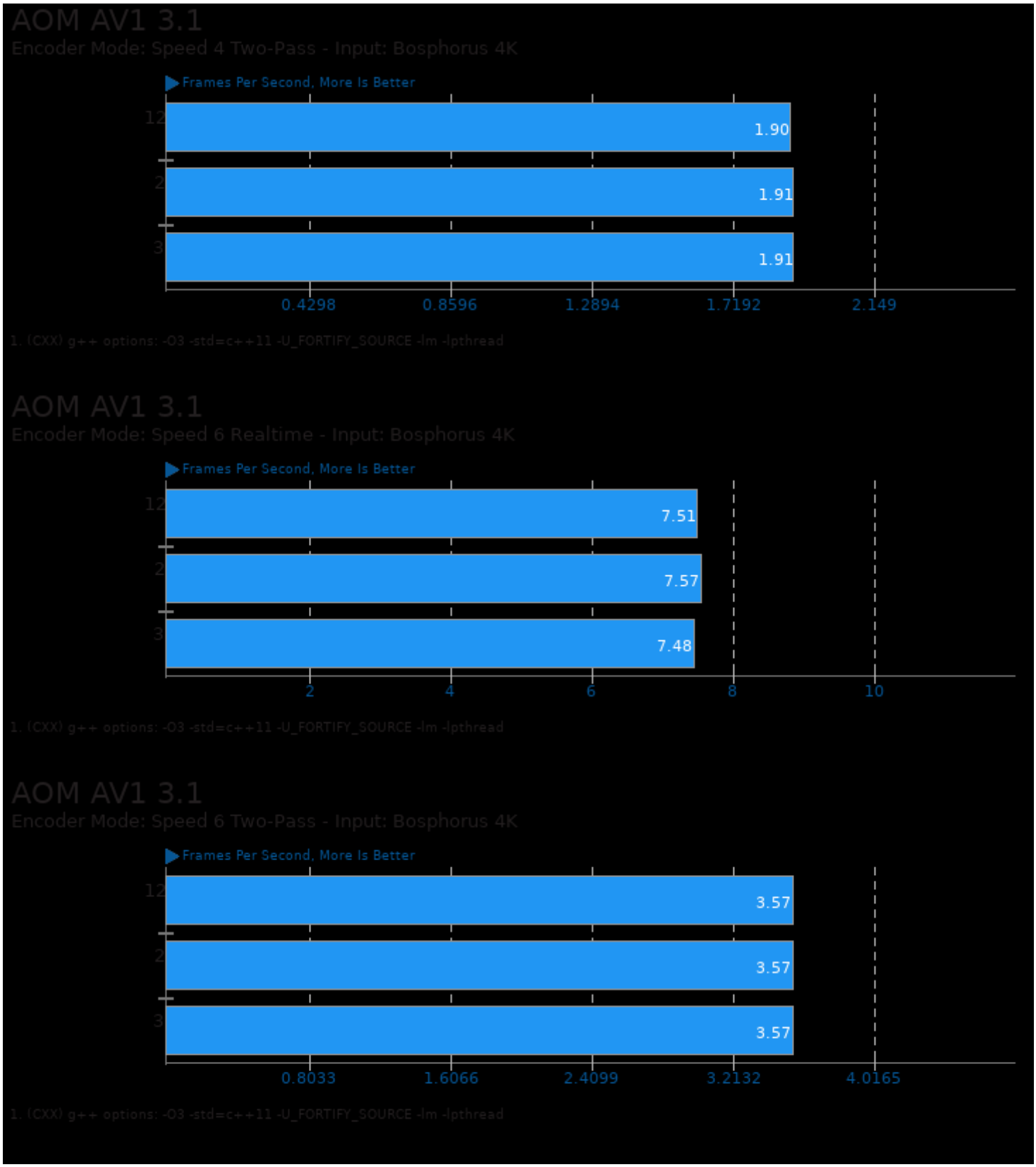
1. (CXX) g++ options: -fexceptions -fno-rtti -maes -O3 -Ofast -static-libgcc -static-libstdc++ -rdynamic -lssl -lcrypto -luv -lpthread -lrt -ldl -lhwloc

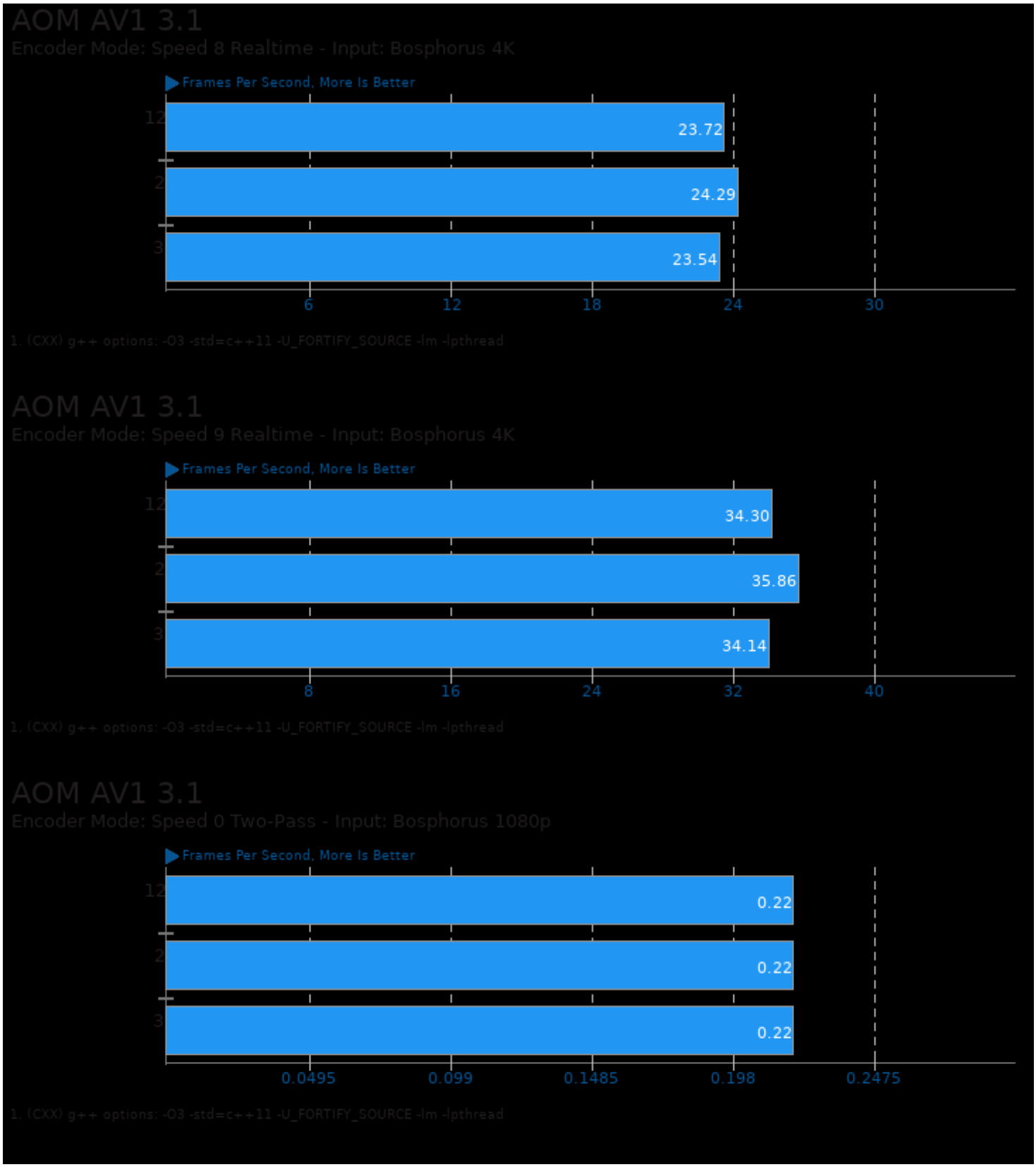
AOM AV1 3.1

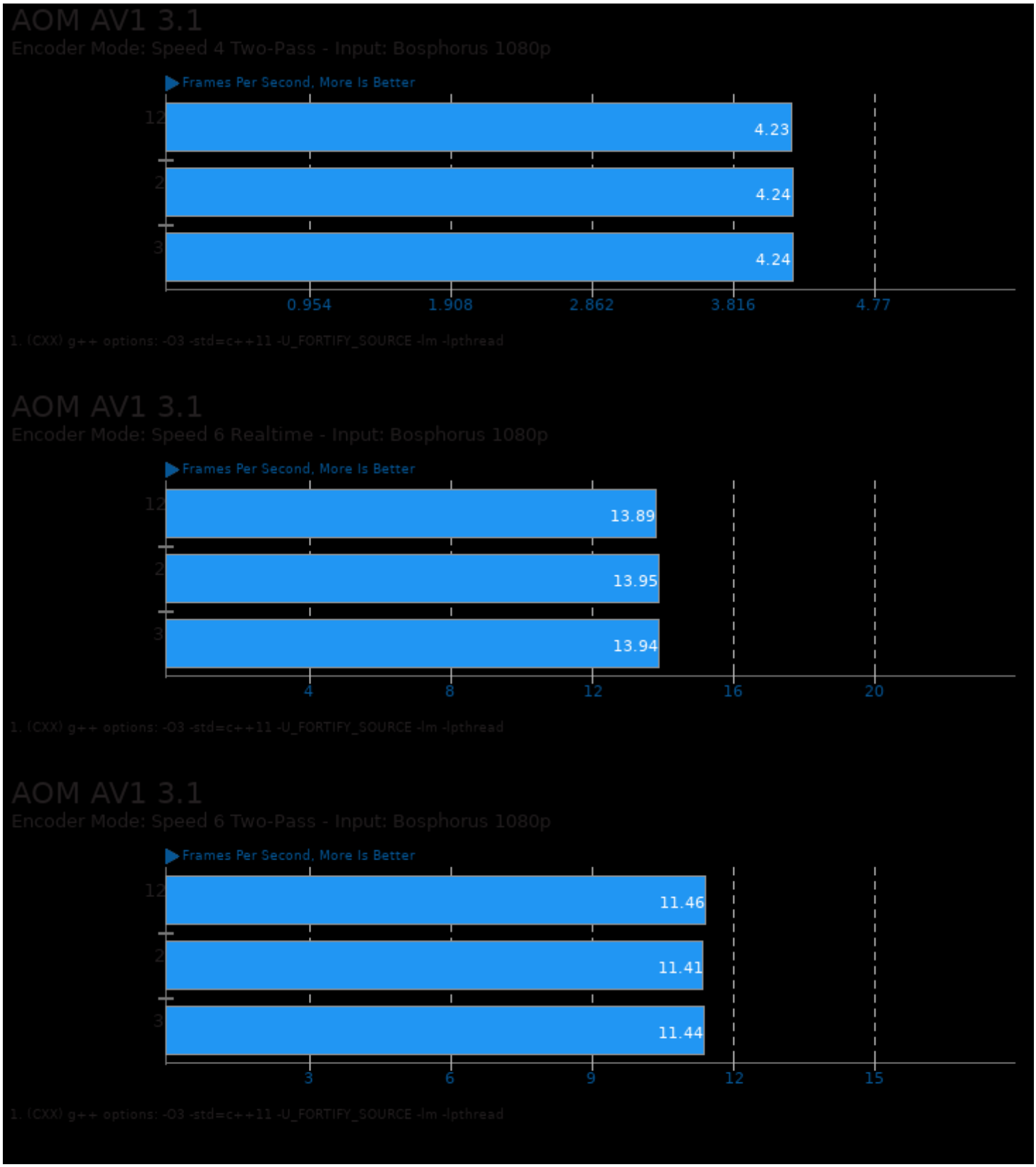
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K

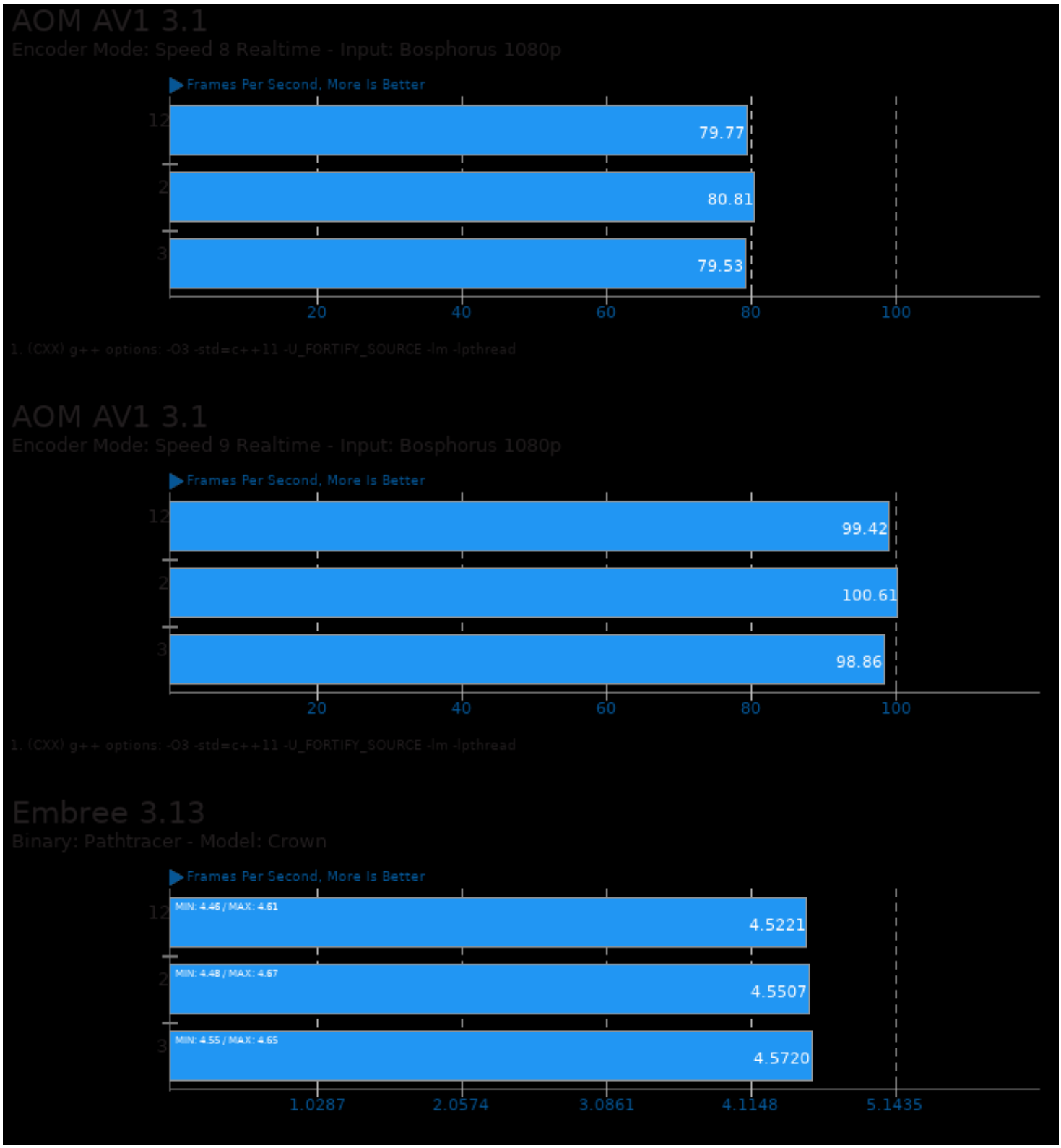


1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

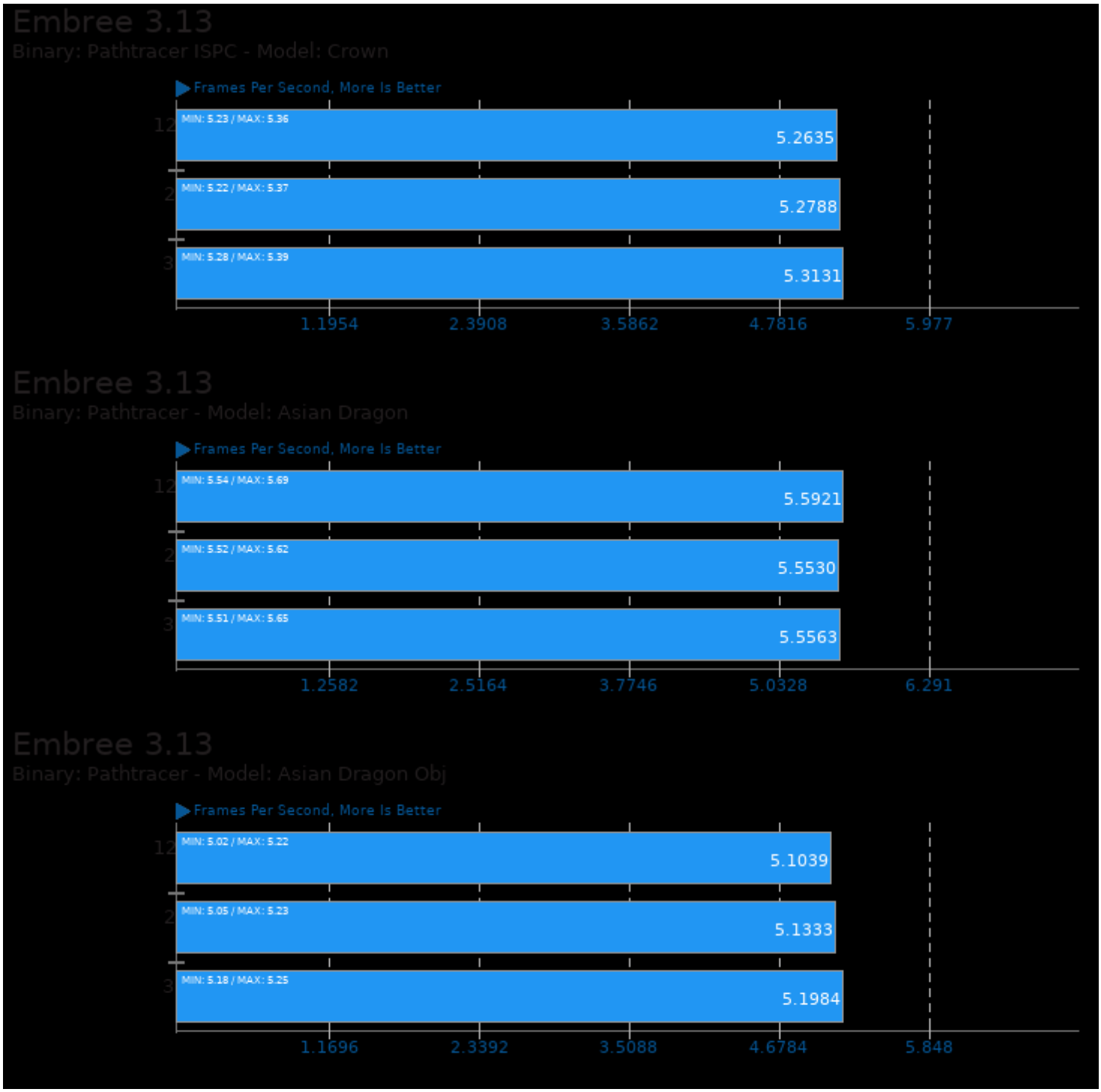

AOM AV1 3.1
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K
Frames Per Second, More Is Better
1.90
1.91
1.91
0.4298
0.8596
1.2894
1.7192
2.149
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
7.51
7.57
7.48
2
4
6
8
10
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K
Frames Per Second, More Is Better
3.57
3.57
3.57
0.8033
1.6066
2.4099
3.2132
4.0165
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

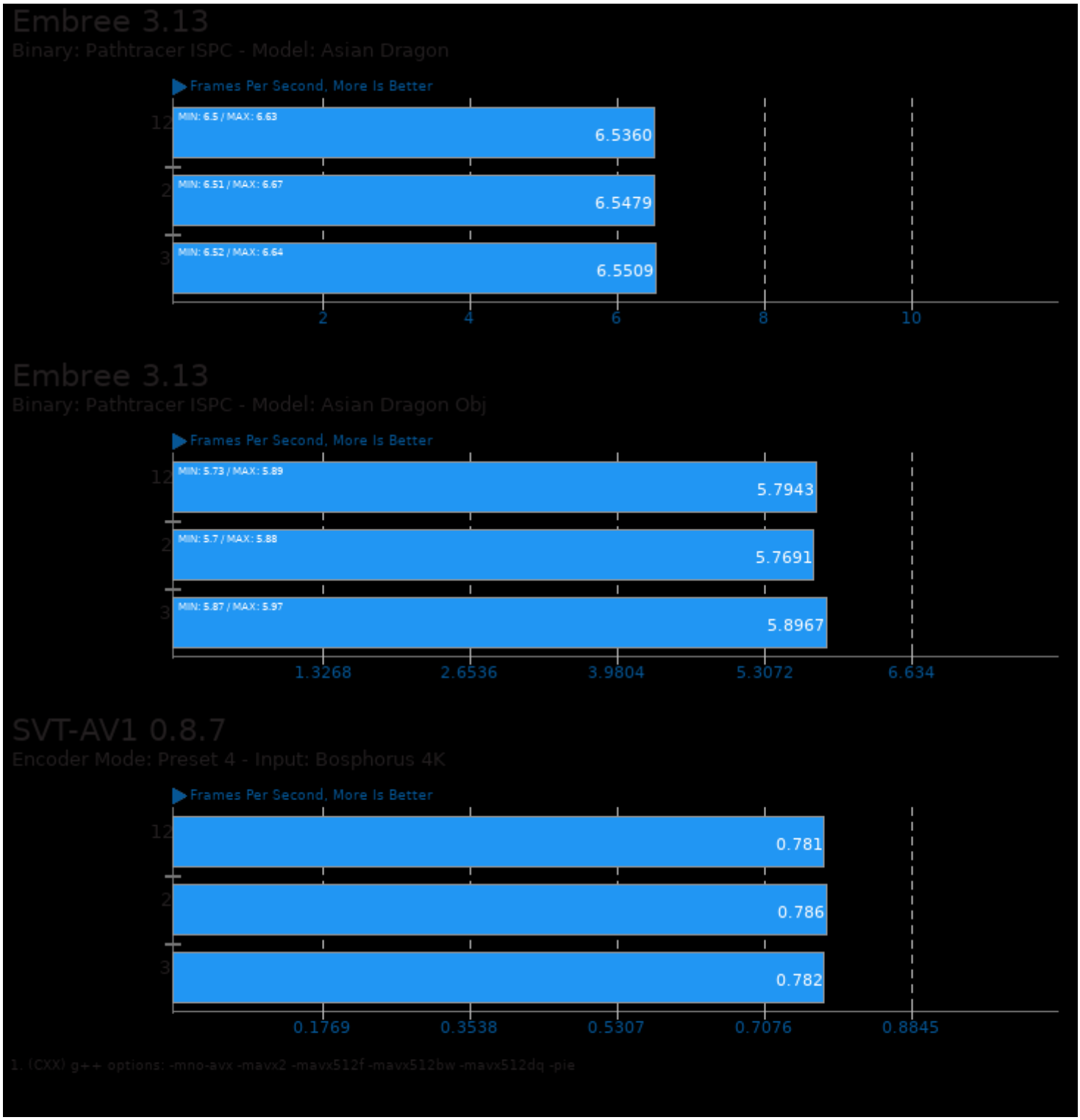

AOM AV1 3.1
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
1
2
3
23.72
24.29
23.54
6
12
18
24
30
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
1
2
3
34.30
35.86
34.14
8
16
24
32
40
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
0.22
0.22
0.22
0.0495
0.099
0.1485
0.198
0.2475
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

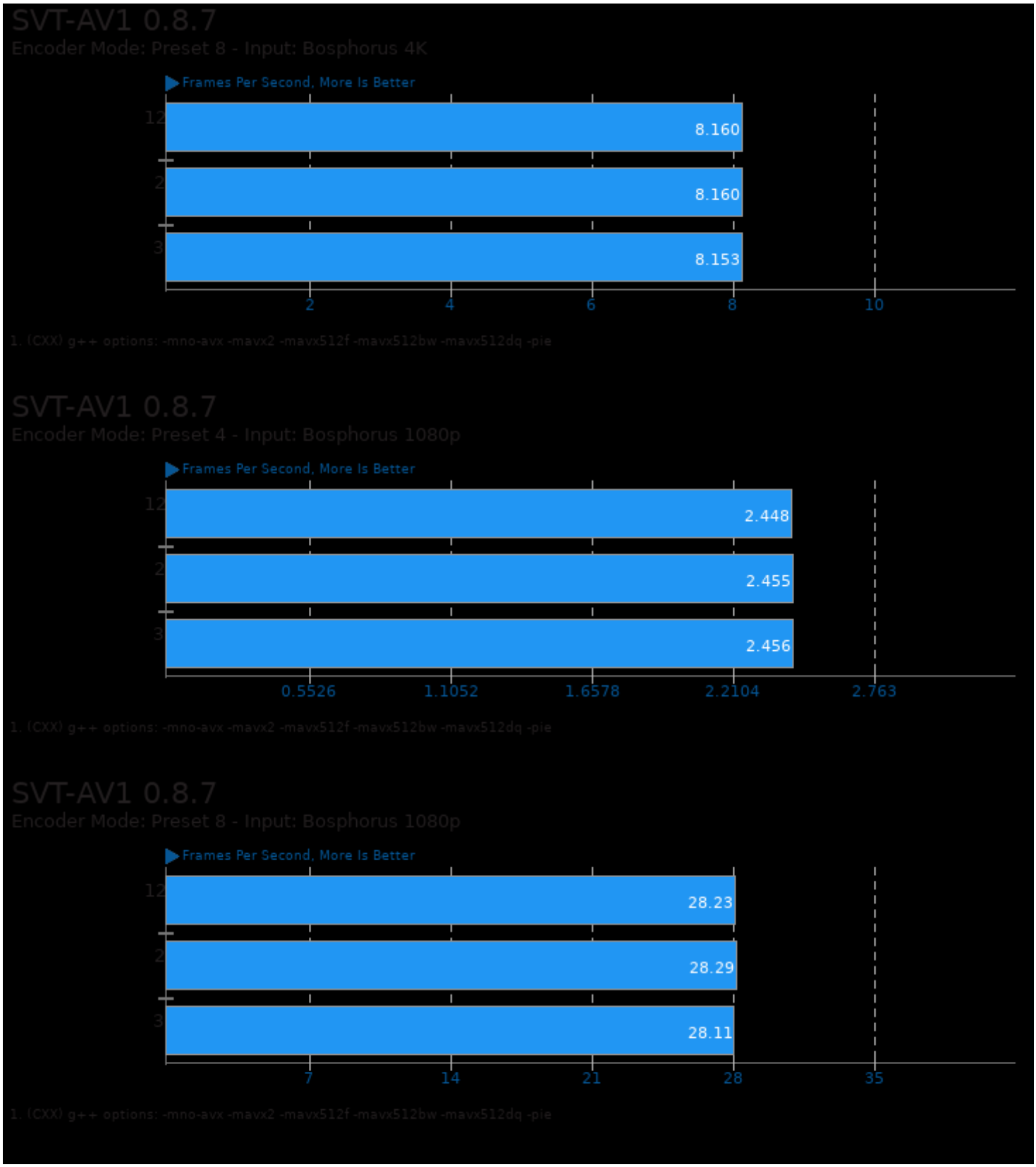

AOM AV1 3.1
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
4.23
4.24
4.24
0.954
1.908
2.862
3.816
4.77
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
13.89
13.95
13.94
4
8
12
16
20
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
11.46
11.41
11.44
3
6
9
12
15
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread


AOM AV1 3.1
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
79.77
80.81
79.53
20
40
60
80
100
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
1
2
3
99.42
100.61
98.86
20
40
60
80
100
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
Embree 3.13
Binary: Pathtracer - Model: Crown
Frames Per Second, More Is Better
1
MIN: 4.46 / MAX: 4.61
4.5221
2
MIN: 4.48 / MAX: 4.67
4.5507
3
MIN: 4.55 / MAX: 4.65
4.5720
1.0287
2.0574
3.0861
4.1148
5.1435

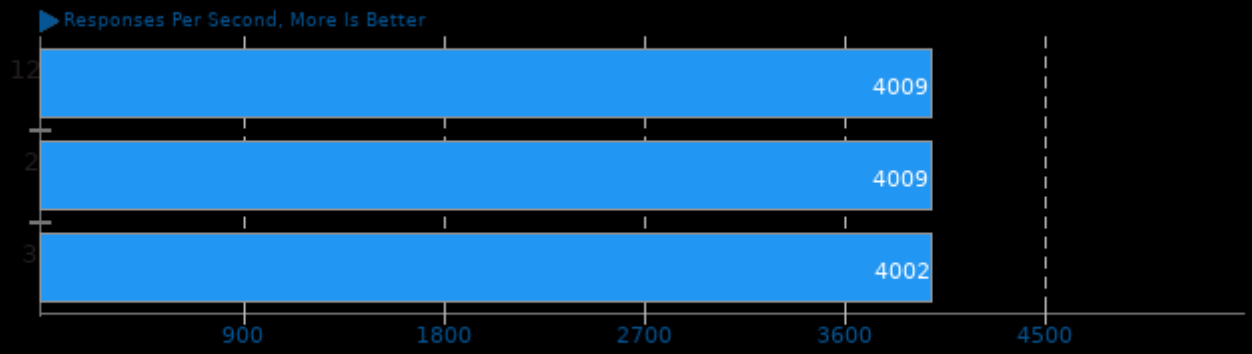
10100 may


Embree 3.13
Binary: Pathtracer ISPC - Model: Crown
Frames Per Second, More Is Better
MIN: 5.23 / MAX: 5.36
5.2635
MIN: 5.22 / MAX: 5.37
5.2788
MIN: 5.28 / MAX: 5.39
5.3131
1.1954
2.3908
3.5862
4.7816
5.977
Embree 3.13
Binary: Pathtracer - Model: Asian Dragon
Frames Per Second, More Is Better
MIN: 5.54 / MAX: 5.69
5.5921
MIN: 5.52 / MAX: 5.62
5.5530
MIN: 5.51 / MAX: 5.65
5.5563
1.2582
2.5164
3.7746
5.0328
6.291
Embree 3.13
Binary: Pathtracer - Model: Asian Dragon Obj
Frames Per Second, More Is Better
MIN: 5.02 / MAX: 5.22
5.1039
MIN: 5.05 / MAX: 5.23
5.1333
MIN: 5.18 / MAX: 5.25
5.1984
1.1696
2.3392
3.5088
4.6784
5.848


Embree 3.13
Binary: Pathtracer ISPC - Model: Asian Dragon
Frames Per Second, More Is Better
1
MIN: 6.5 / MAX: 6.63
6.5360
2
MIN: 6.51 / MAX: 6.67
6.5479
3
MIN: 6.52 / MAX: 6.64
6.5509
2
4
6
8
10
Embree 3.13
Binary: Pathtracer ISPC - Model: Asian Dragon Obj
Frames Per Second, More Is Better
1
MIN: 5.73 / MAX: 5.89
5.7943
2
MIN: 5.7 / MAX: 5.88
5.7691
3
MIN: 5.87 / MAX: 5.97
5.8967
1.3268
2.6536
3.9804
5.3072
6.634
SVT-AV1 0.8.7
Encoder Mode: Preset 4 - Input: Bosphorus 4K
Frames Per Second, More Is Better
1
0.781
2
0.786
3
0.782
0.1769
0.3538
0.5307
0.7076
0.8845
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

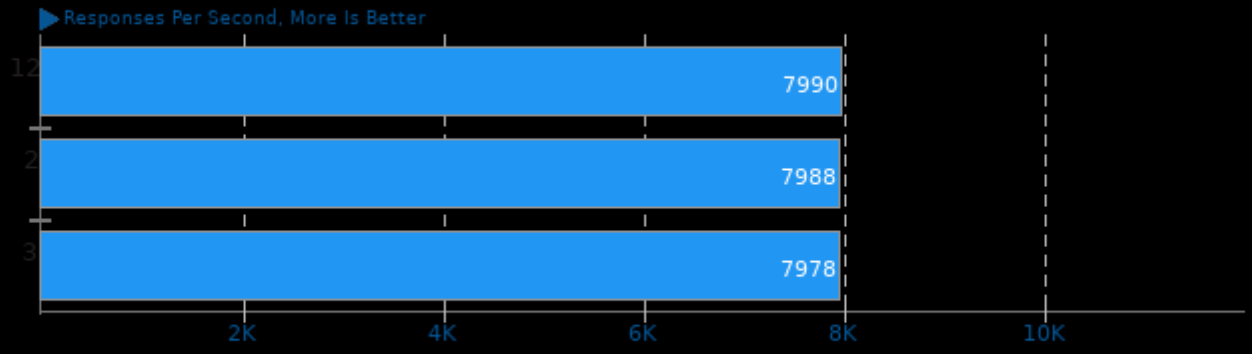

SVT-AV1 0.8.7
Encoder Mode: Preset 8 - Input: Bosphorus 4K
Frames Per Second, More Is Better
12
8.160
2
8.160
3
8.153
2
4
6
8
10
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.8.7
Encoder Mode: Preset 4 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
12
2.448
2
2.455
3
2.456
0.5526
1.1052
1.6578
2.2104
2.763
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.8.7
Encoder Mode: Preset 8 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
12
28.23
2
28.29
3
28.11
7
14
21
28
35
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

PJSIP 2.11
Method: INVITE



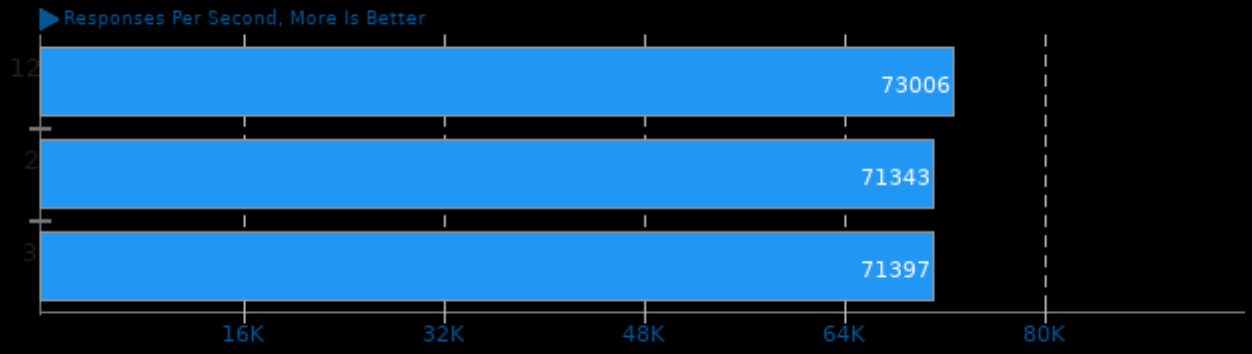
1. (CC) gcc options: -lSDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

PJSIP 2.11
Method: OPTIONS, Stateful

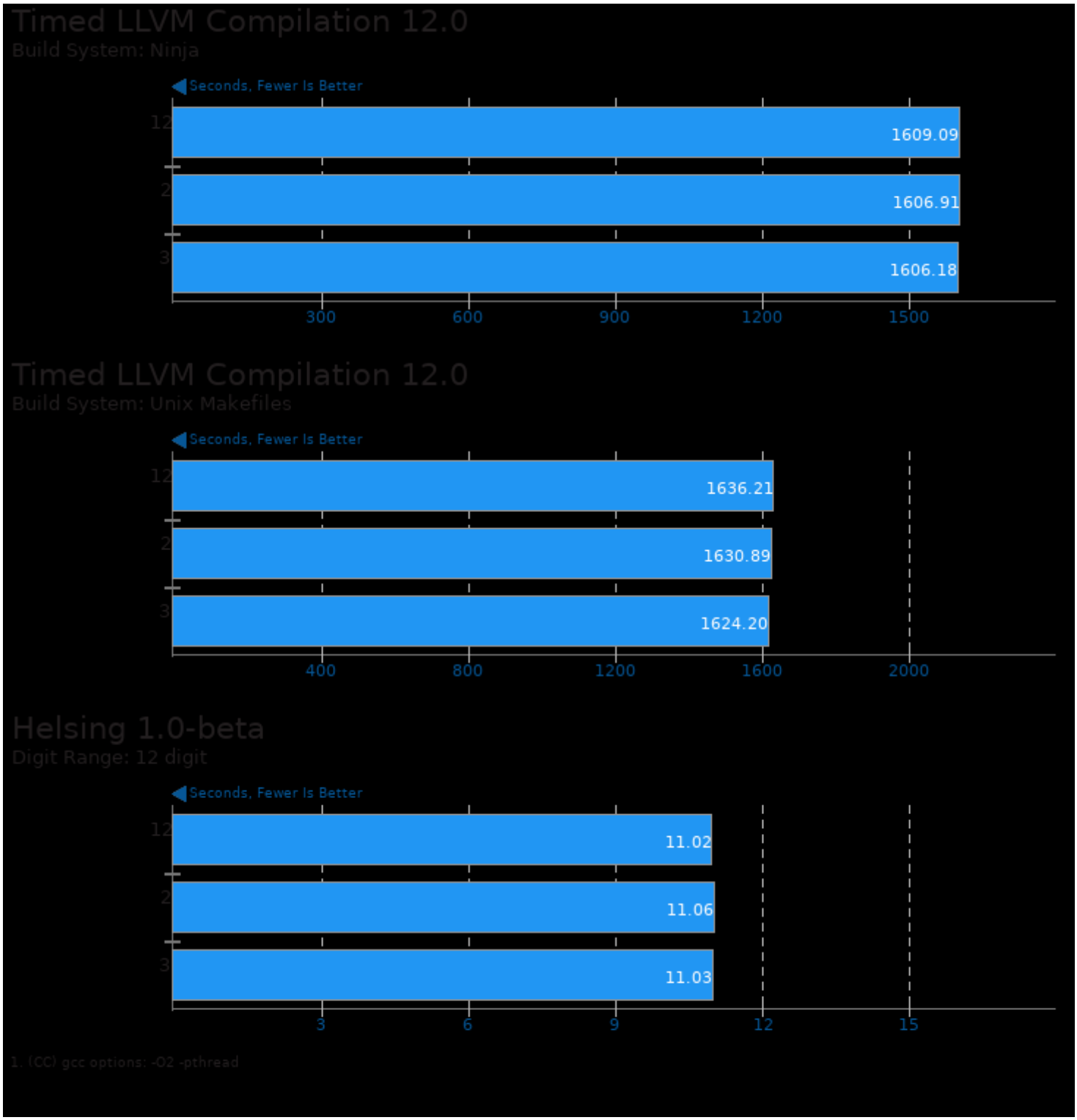


1. (CC) gcc options: -lSDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

PJSIP 2.11
Method: OPTIONS, Stateless

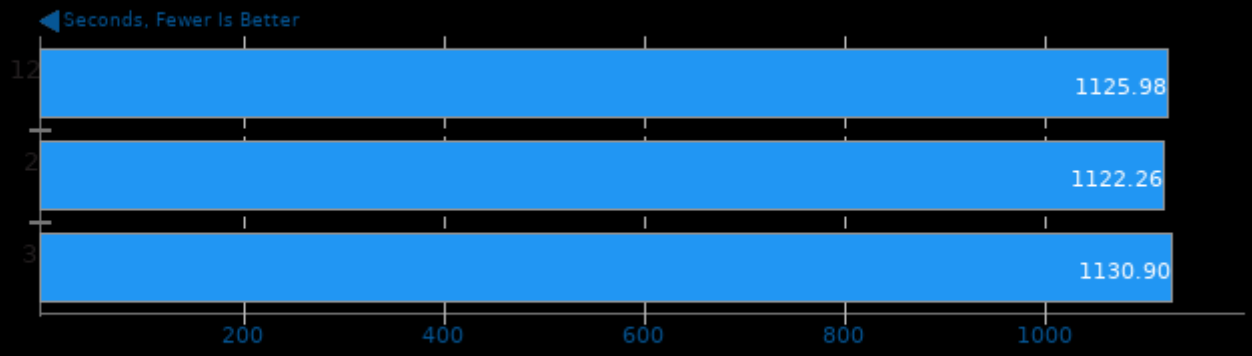


1. (CC) gcc options: -lSDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2


Timed LLVM Compilation 12.0
Build System: Ninja
Seconds, Fewer Is Better
12
1609.09
2
1606.91
3
1606.18
300
600
900
1200
1500
Timed LLVM Compilation 12.0
Build System: Unix Makefiles
Seconds, Fewer Is Better
12
1636.21
2
1630.89
3
1624.20
400
800
1200
1600
2000
Helsing 1.0-beta
Digit Range: 12 digit
Seconds, Fewer Is Better
12
11.02
2
11.06
3
11.03
3
6
9
12
15
1. (CC) gcc options: -O2 -pthread

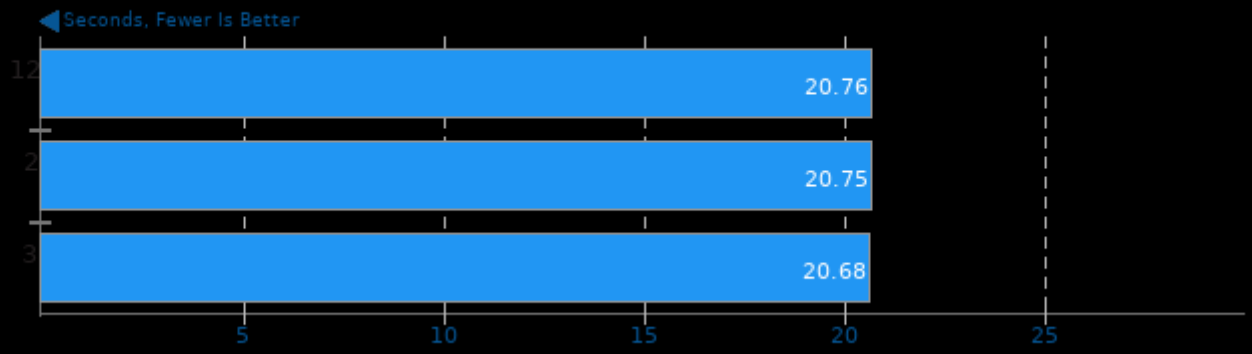
Helsing 1.0-beta

Digit Range: 14 digit



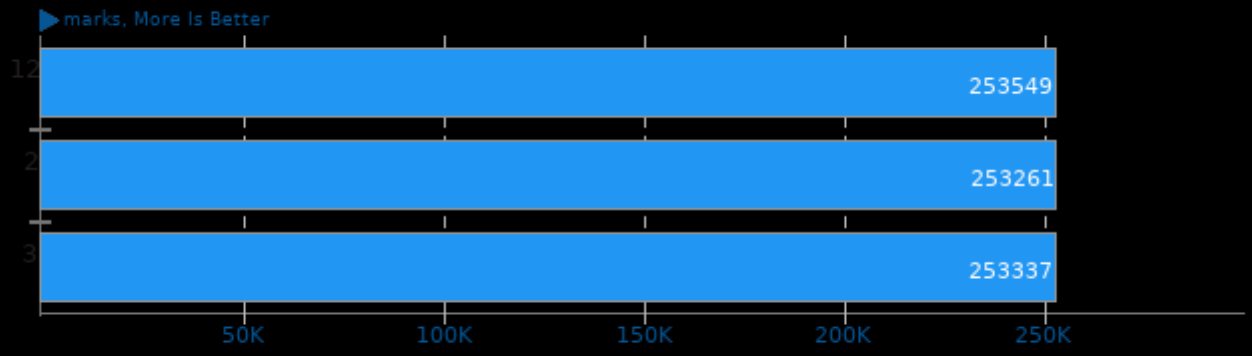
1. (CC) gcc options: -O2 -pthread

VOSK Speech Recognition Toolkit 0.3.21



SecureMark 1.0.4

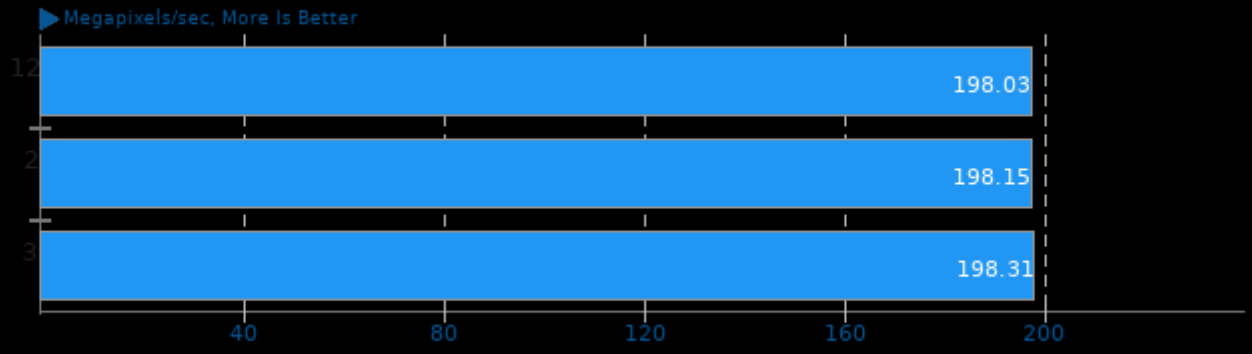
Benchmark: SecureMark-TLS



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

libjpeg-turbo tjbench 2.1.0

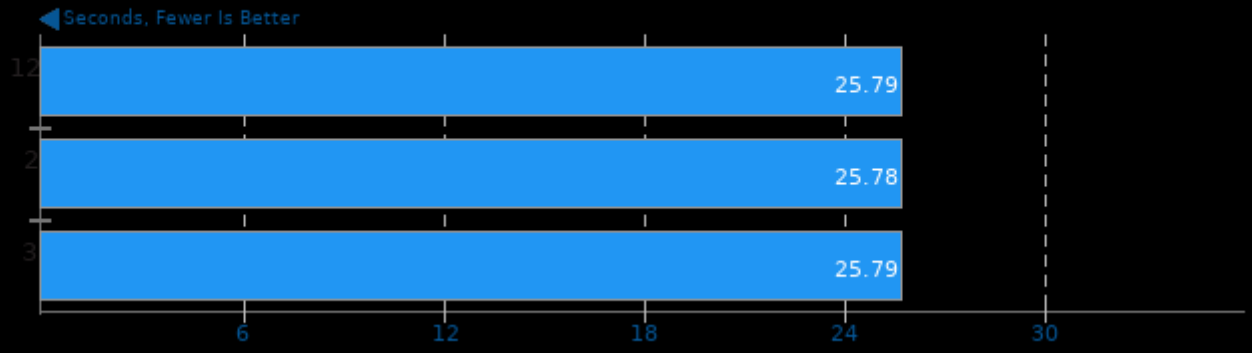
Test: Decompression Throughput



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

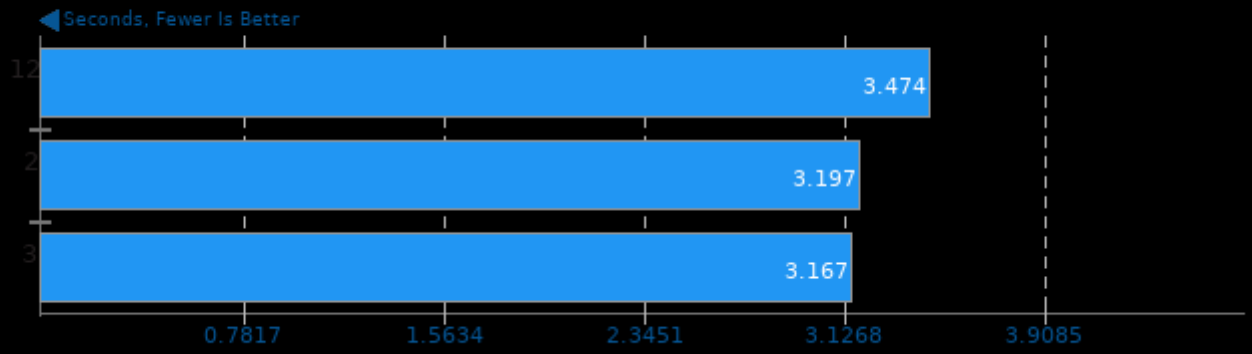
KTX-Software toktx 4.0

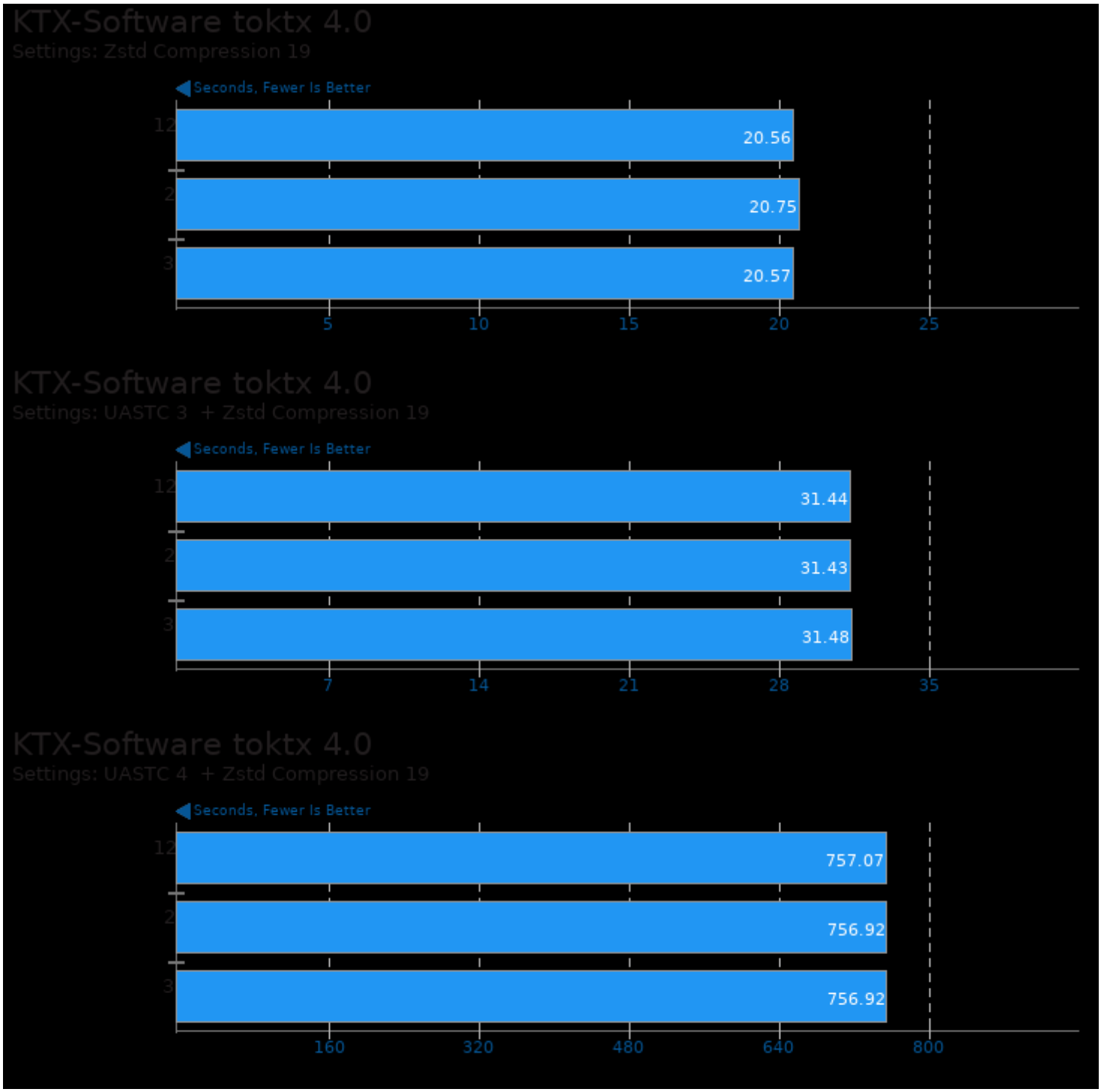
Settings: UASTC 3

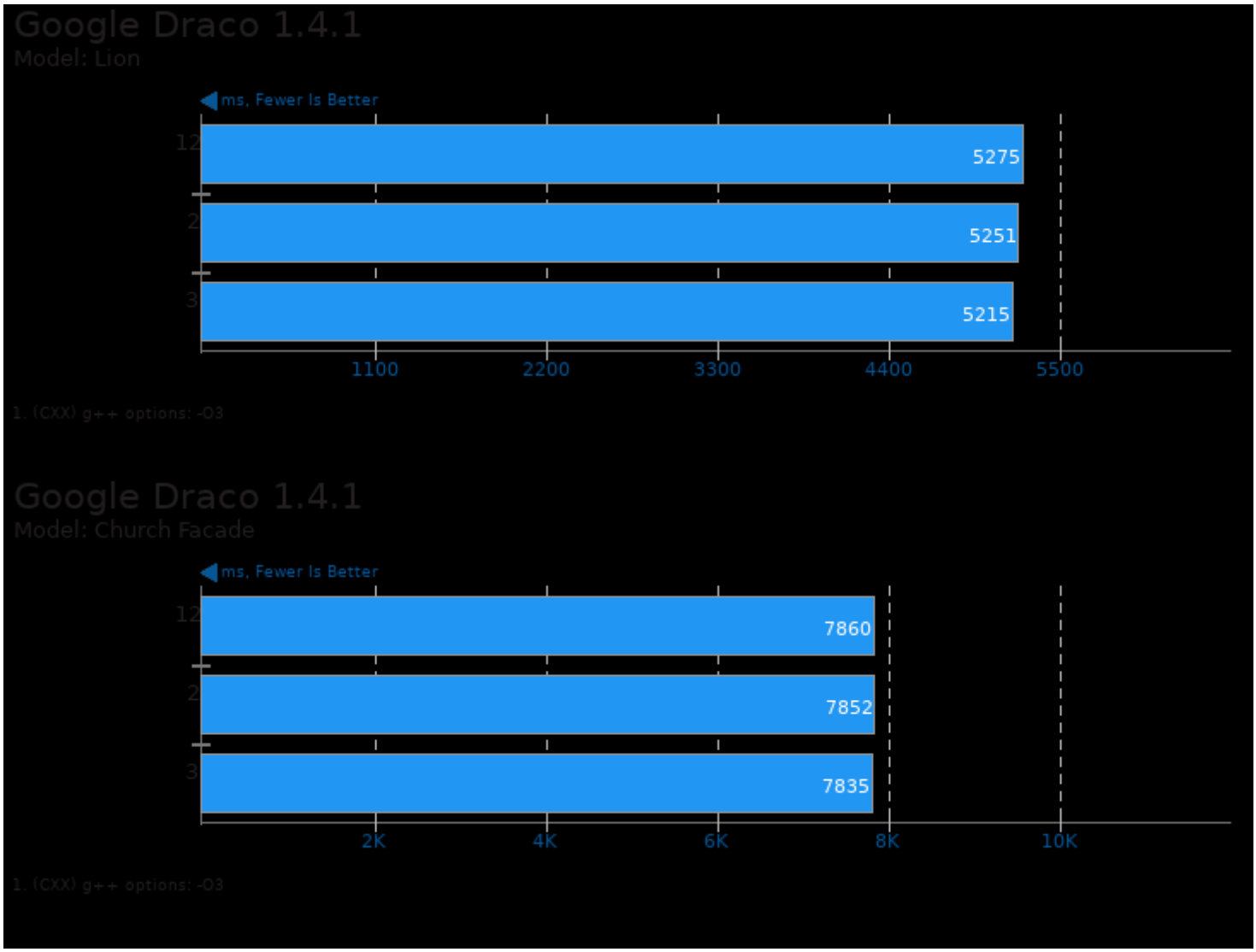


KTX-Software toktx 4.0

Settings: Zstd Compression 9

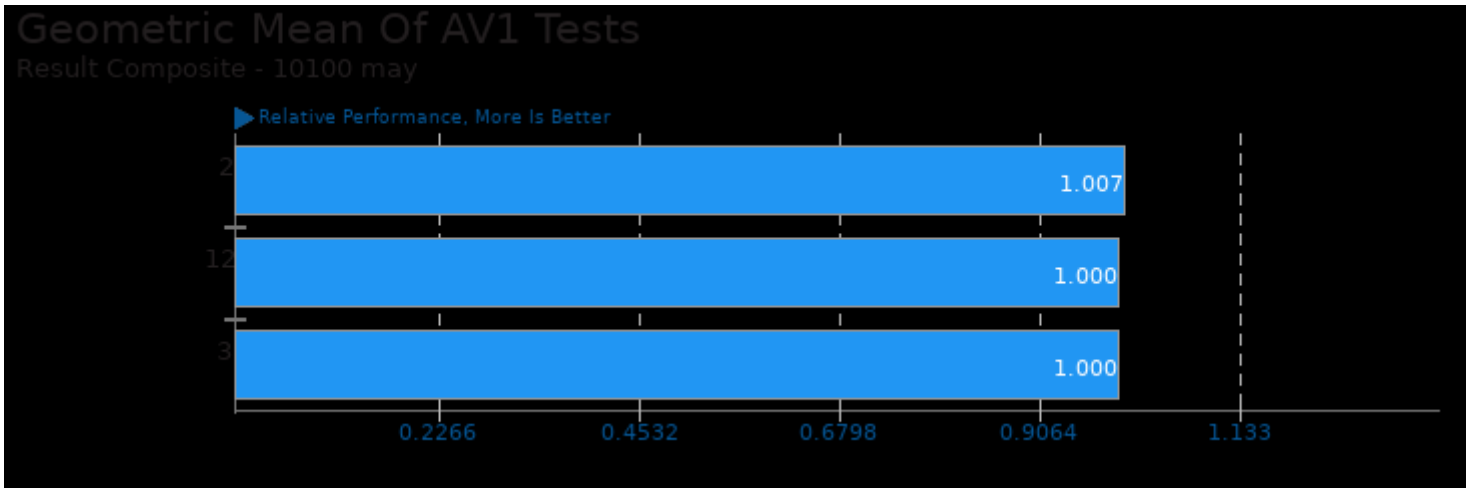



KTX-Software toktx 4.0
Settings: Zstd Compression 19
Seconds, Fewer Is Better
12
20.56
2
20.75
3
20.57
5
10
15
20
25
KTX-Software toktx 4.0
Settings: UASTC 3 + Zstd Compression 19
Seconds, Fewer Is Better
12
31.44
2
31.43
3
31.48
7
14
21
28
35
KTX-Software toktx 4.0
Settings: UASTC 4 + Zstd Compression 19
Seconds, Fewer Is Better
12
757.07
2
756.92
3
756.92
160
320
480
640
800


Google Draco 1.4.1
Model: Lion
ms, Fewer Is Better
1
2
3
5275
5251
5215
1100
2200
3300
4400
5500
1. (CXX) g++ options: -O3
Google Draco 1.4.1
Model: Church Facade
ms, Fewer Is Better
1
2
3
7860
7852
7835
2K
4K
6K
8K
10K
1. (CXX) g++ options: -O3

10100 may

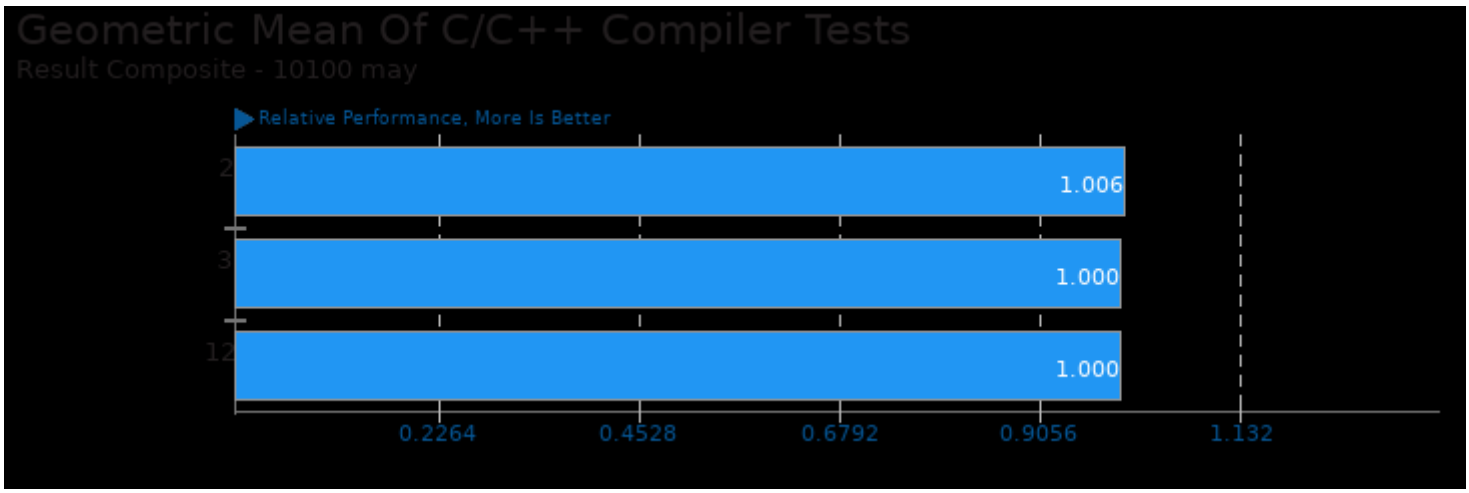
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/aom-av1, pts/svt-av1 and pts/libgav1



Geometric mean based upon tests: pts/mrbayes, pts/hmmer and pts/qmcpack



Geometric mean based upon tests: pts/hmmer, pts/build-llvm, pts/mrbayes, pts/libgav1, pts/aom-av1 and pts/svt-av1

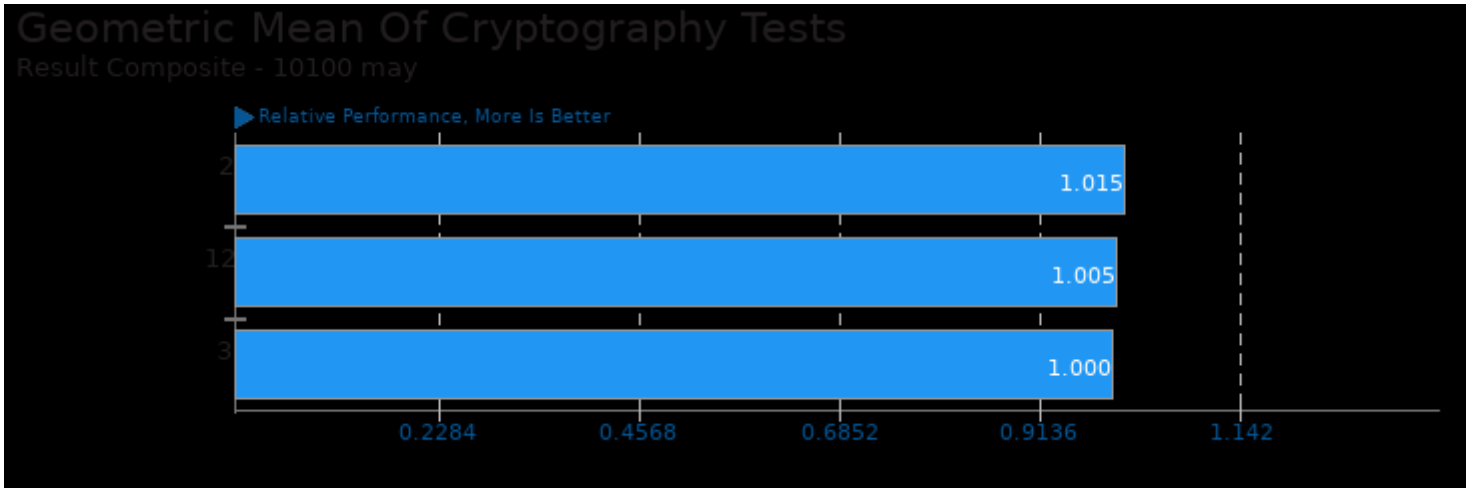
10100 may



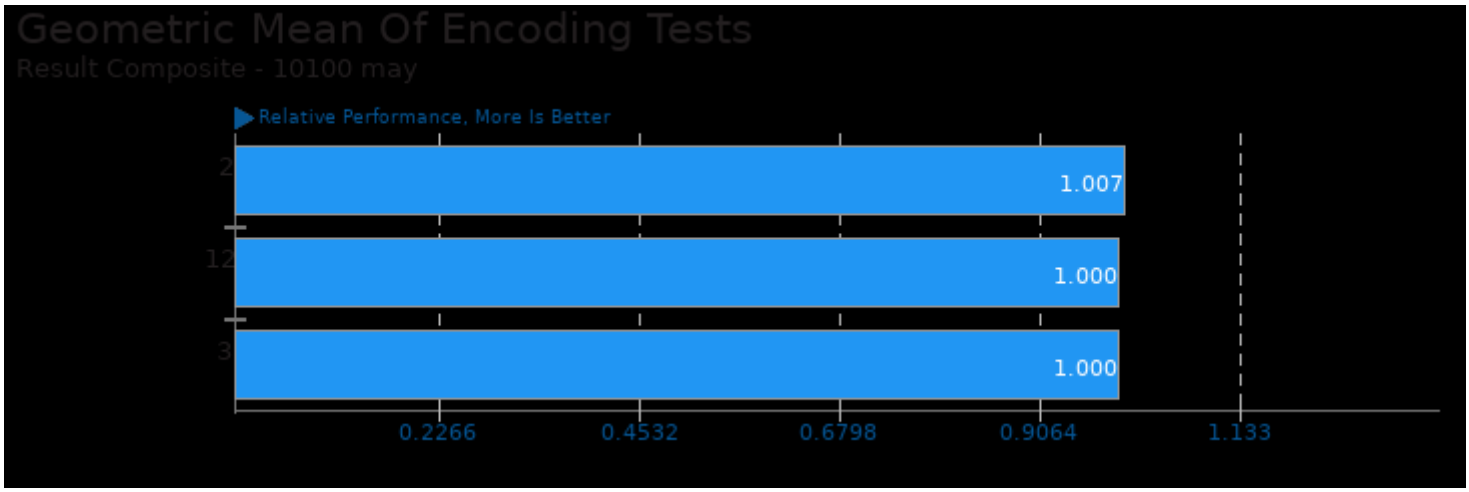
Geometric mean based upon tests: pts/build-llvm, pts/svt-av1, pts/hmmer, pts/mrbayes and pts/tjbench



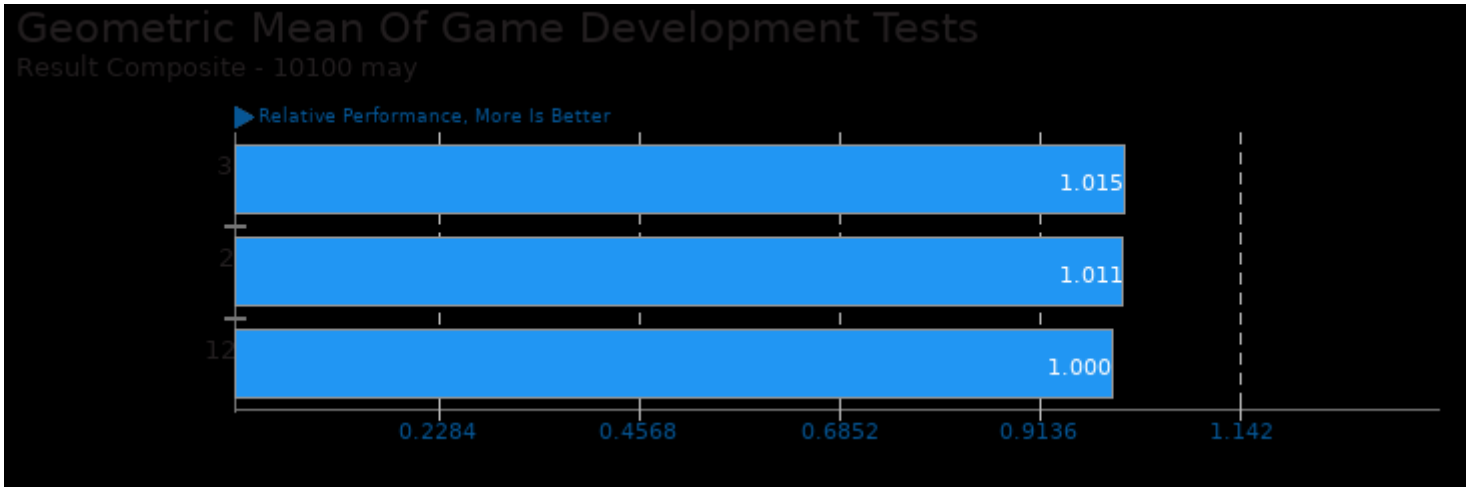
Geometric mean based upon tests: pts/aom-av1, pts/svt-av1, pts/libgav1, pts/tjbench, pts/embree, pts/toktx, pts/draco and pts/vosk



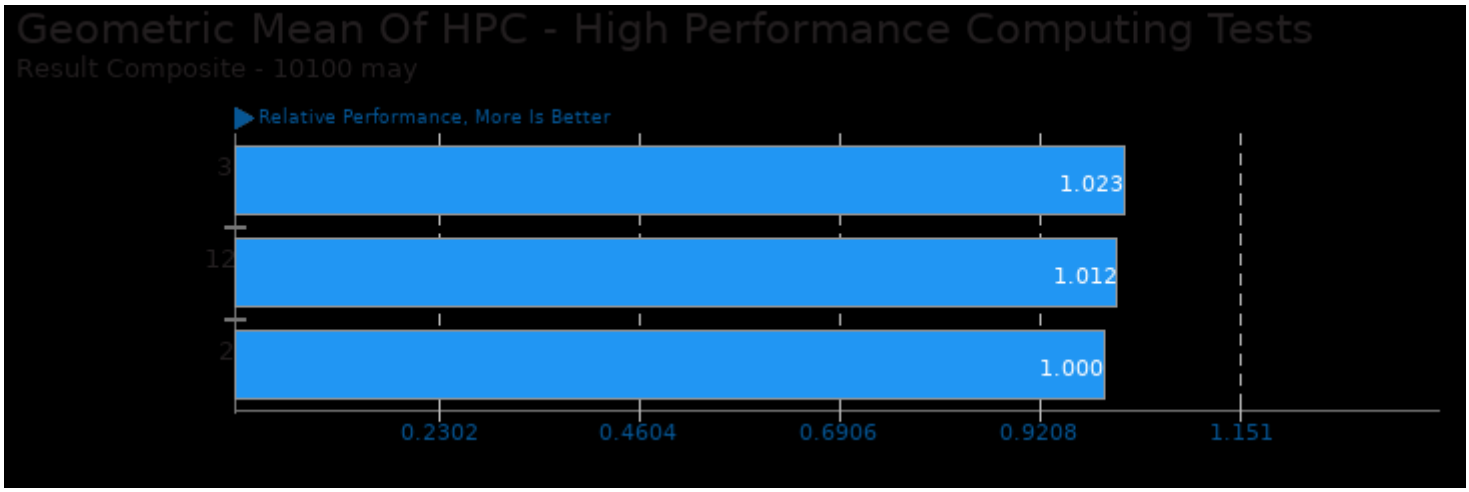
Geometric mean based upon tests: pts/securemark and pts/xmrig



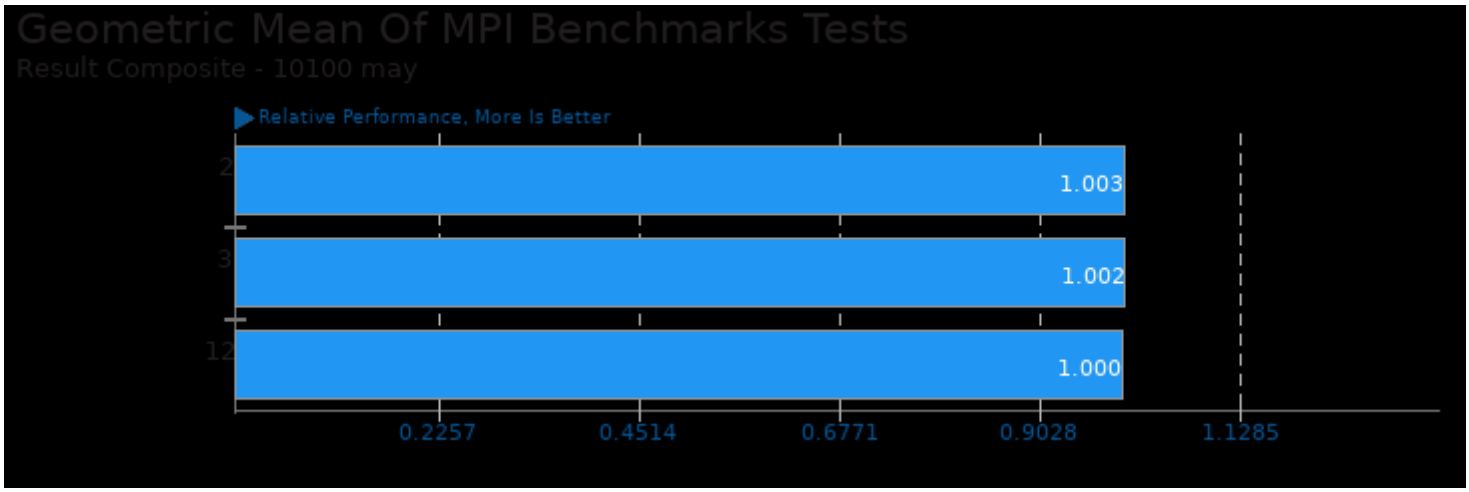
Geometric mean based upon tests: pts/aom-av1, pts/svt-av1 and pts/libgav1



Geometric mean based upon tests: pts/toktx and pts/draco



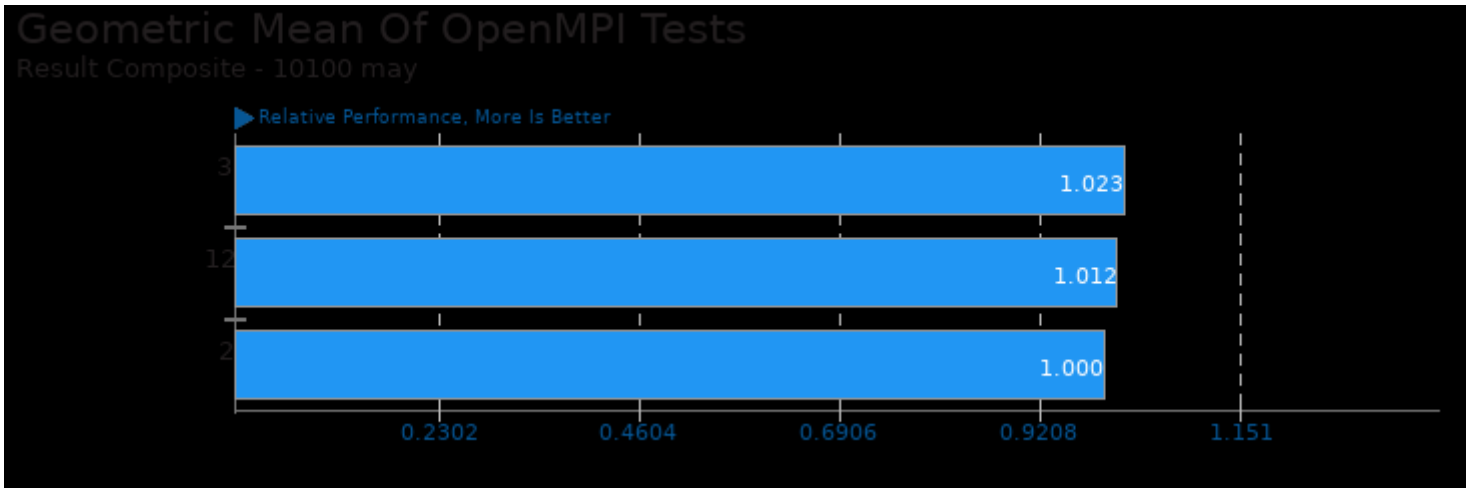
Geometric mean based upon tests: pts/cp2k, pts/mrbayes, pts/hmmer and pts/qmcpack



Geometric mean based upon tests: pts/qmcpack and pts/mrbayes



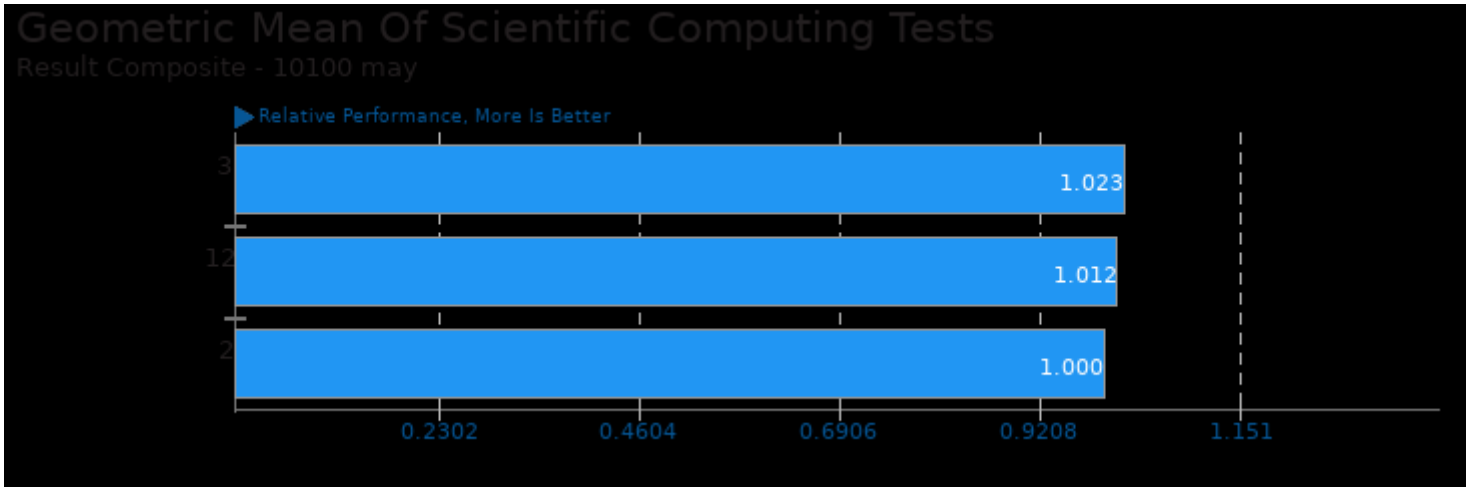
Geometric mean based upon tests: pts/aom-av1, pts/svt-av1, pts/libgav1, pts/build-llvm and pts/embree



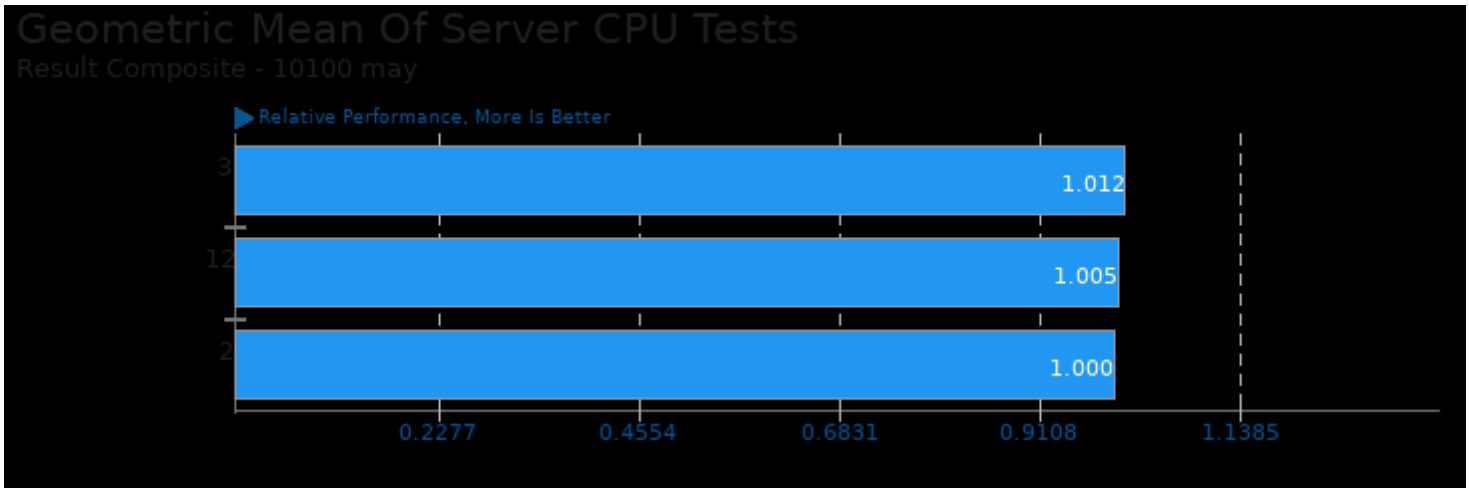
Geometric mean based upon tests: pts/cp2k, pts/mrbayes, pts/qmcpack and pts/hmmer



Geometric mean based upon tests: pts/build-llvm and pts/vosk

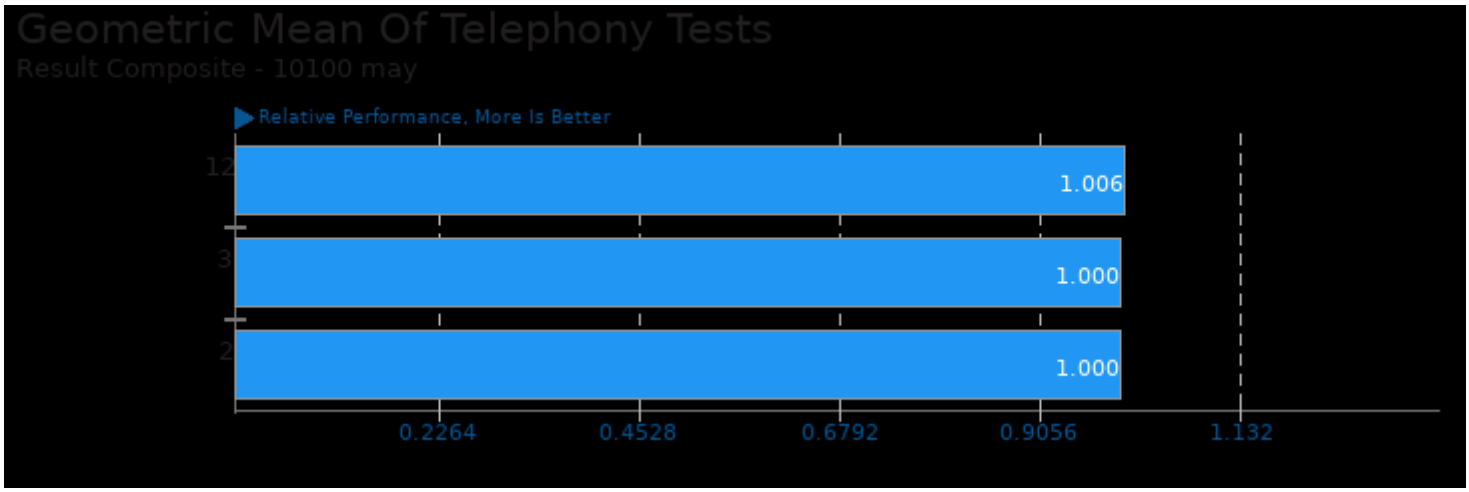


Geometric mean based upon tests: pts/cp2k, pts/mrbayes, pts/hmmer and pts/qmcpack

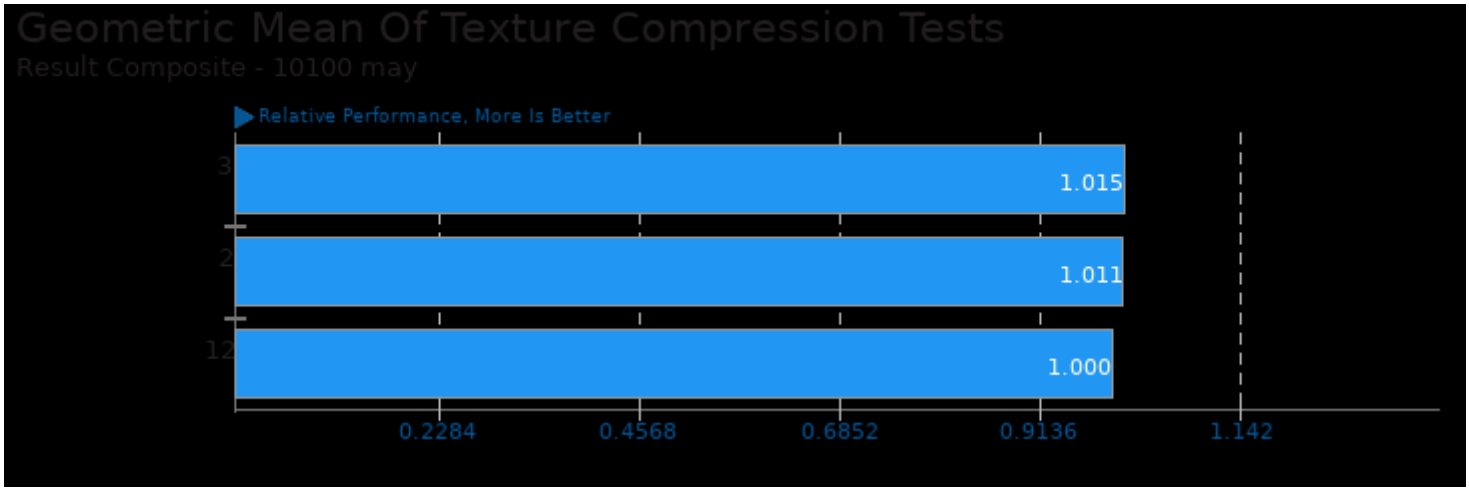


Geometric mean based upon tests: pts/cp2k, pts/svt-av1, pts/build-llvm and pts/tjbench

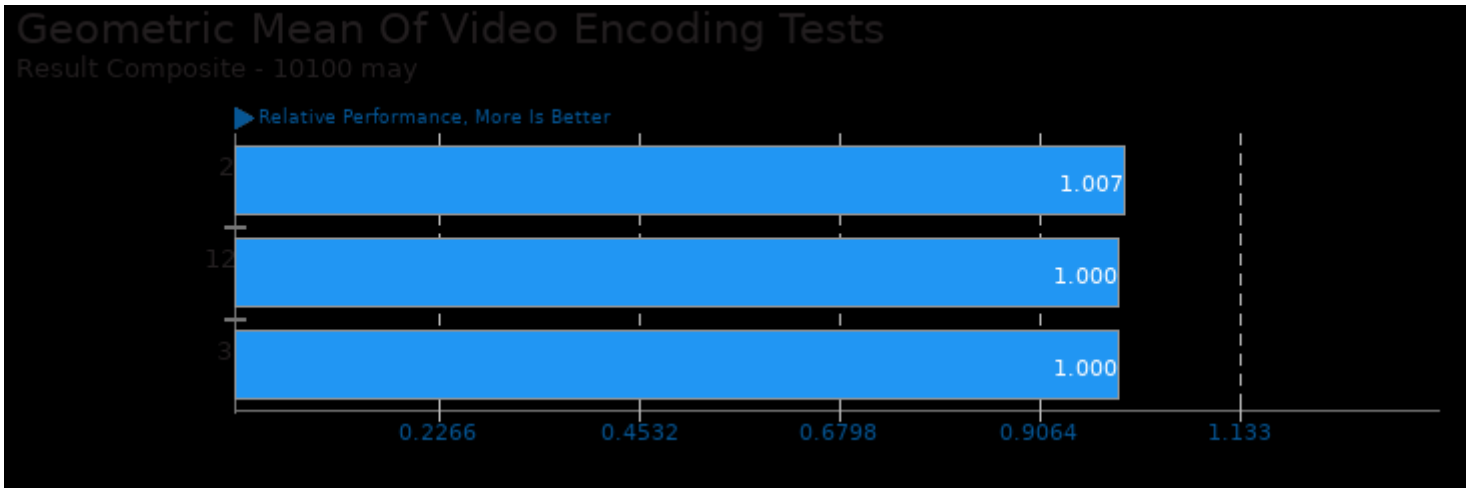
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Geometric mean based upon tests: pts/pjsip and pts/vosk



Geometric mean based upon tests: pts/toktx and pts/draco



Geometric mean based upon tests: pts/aom-av1, pts/svt-av1 and pts/libgav1

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