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new tests extra cpus

2 x Intel Xeon Gold 6346 testing with a Supermicro X12DPi-N6 v1.01 (1.4 BIOS) and astdrmfb on AlmaLinux 9.1 via the Phoronix Test Suite.

Automated Executive Summary

gold b had the most wins, coming in first place for 44% of the tests.

Based on the geometric mean of all complete results, the fastest (gold c) was 1.015x the speed of the slowest (gold a). gold b was 0.989x the speed of gold c and gold a was 0.996x the speed of gold b.

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

Stress-NG (Test: MEMFD) at 1.463x
Stress-NG (Test: Futex) at 1.272x
Stress-NG (Test: Glibc Qsort Data Sorting) at 1.257x
Stress-NG (Test: CPU Cache) at 1.25x
Stress-NG (Test: Atomic) at 1.15x
Stress-NG (Test: Zlib) at 1.04x
Stress-NG (Test: Context Switching) at 1.036x
SVT-AV1 (Encoder Mode: Preset 4 - Input: Bosphorus 4K) at 1.032x
SVT-AV1 (Encoder Mode: Preset 4 - Input: Bosphorus 1080p) at 1.032x

Timed Linux Kernel Compilation (Build: defconfig) at 1.026x.

Test Systems:

gold a

gold b

gold c

Processor: 2 x Intel Xeon Gold 6346 @ 3.60GHz (32 Cores / 64 Threads), Motherboard: Supermicro X12DPi-N6 v1.01 (1.4 BIOS), Memory: 16 x 32 GB DDR4-3200MT/s Samsung M393A4K40EB3-CWE, Disk: 2 x 1920GB SAMSUNG MZQL21T9HCJR-00A07, Graphics: astdrmfb

OS: AlmaLinux 9.1, Kernel: 5.14.0-162.12.1.el9_1.x86_64 (x86_64), Compiler: GCC 11.3.1 20220421, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-host-bind-now --enable-host-pie --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-link-serialization=1 --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-arch_64=x86-64-v2 --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver --without-isl
Processor Notes: Scaling Governor: intel_cpufreq performance - CPU Microcode: 0xd000375
Python Notes: Python 3.9.14
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Mitigation of Clear buffers; SMT vulnerable + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling PBRSB-eIBRS: SW sequence + srbds: Not affected + tsx_async_abort: Not affected

	gold a	gold b	gold c
Embree - Pathtracer - Crown (FPS)	**38.4831**	38.4523	**38.2644**
Normalized	100%	99.92%	99.43%
Standard Deviation	0.5%		
Embree - Pathtracer ISPC - Crown (FPS)	44.6941	**44.8332**	**44.1071**
Normalized	99.69%	100%	98.38%
Standard Deviation	0.3%		
Embree - Pathtracer - Asian Dragon (FPS)	42.9694	**42.9498**	**42.9969**
Normalized	99.94%	99.89%	100%
Standard Deviation	0.1%		
Embree - Pathtracer - Asian Dragon Obj	**38.8564**	**38.7018**	38.7224
Normalized	100%	99.6%	99.66%
Standard Deviation	0.2%		
Embree - Pathtracer ISPC - Asian Dragon (FPS)	**53.1023**	53.177	**53.2797**
Normalized	99.67%	99.81%	100%
Standard Deviation	0.1%		

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Embree - Pathtracer ISPC - Asian Dragon Obj (FPS)	**45.1225**	45.0735	**45.0651**
Normalized	100%	99.89%	99.87%
Standard Deviation	0.2%		
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	3.427	**3.332**	**3.44**
Normalized	99.62%	96.86%	100%
Standard Deviation	1.2%		
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	67.524	**68.729**	**67.131**
Normalized	98.25%	100%	97.67%
Standard Deviation	0.4%		
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**210.609**	**212.144**	212.082
Normalized	99.28%	100%	99.97%
Standard Deviation	0.6%		
SVT-AV1 - Preset 13 - Bosphorus 4K (FPS)	197.936	**198.282**	**196.845**
Normalized	99.83%	100%	99.28%
Standard Deviation	0.2%		
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**8.192**	**7.936**	8.169
Normalized	100%	96.88%	99.72%
Standard Deviation	1.9%		
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	**151.228**	151.564	**152.486**
Normalized	99.18%	99.4%	100%
Standard Deviation	0.7%		
SVT-AV1 - Preset 12 - Bosphorus 1080p	**593.553**	**600.755**	599.304
Normalized	98.8%	100%	99.76%
Standard Deviation	0.5%		
SVT-AV1 - Preset 13 - Bosphorus 1080p	579.473	**578.085**	**589.202**
Normalized	98.35%	98.11%	100%
Standard Deviation	0.8%		
7-Zip Compression - Compression Rating (MIPS)	**254624**	254734	**255594**
Normalized	99.62%	99.66%	100%
Standard Deviation	0.3%		
7-Zip Compression - D.R (MIPS)	187261	**187381**	**187157**
Normalized	99.94%	100%	99.88%
Standard Deviation	0.1%		
Timed FFmpeg Compilation - Time To Compile (sec)	**21.750**	**21.545**	21.718
Normalized	99.06%	100%	99.2%
Standard Deviation	0.6%		
Timed Linux Kernel Compilation - defconfig (sec)	**40.258**	41.199	**41.305**
Normalized	100%	97.72%	97.47%
Standard Deviation	2.3%		
FFmpeg - libx264 - Live (sec)	**26.020905663**	**25.783382185**	25.843921726
Normalized	99.09%	100%	99.77%
FFmpeg - libx264 - Live (FPS)	**194.07**	**195.86**	195.40
Normalized	99.09%	100%	99.77%
FFmpeg - libx265 - Live (sec)	**41.290583324**	41.40	**41.75**
Normalized	100%	99.74%	98.9%
FFmpeg - libx265 - Live (FPS)	**122.30**	121.99	**120.95**
Normalized	100%	99.75%	98.9%
FFmpeg - libx264 - Upload (sec)	219.262300254	**218.959797634**	**219.409945068**
Normalized	99.86%	100%	99.79%
FFmpeg - libx264 - Upload (FPS)	11.52	**11.53**	**11.51**

Normalized	99.91%	100%	99.83%
FFmpeg - libx265 - Upload (sec)	**111.301639909**	**110.80384123**	111.014652659
Normalized	99.55%	100%	99.81%
FFmpeg - libx265 - Upload (FPS)	**22.69**	**22.79**	22.74
Normalized	99.56%	100%	99.78%
FFmpeg - libx264 - Platform (sec)	**173.081062568**	**172.78**	172.92
Normalized	99.83%	100%	99.92%
FFmpeg - libx264 - Platform (FPS)	**43.77**	**43.84**	43.81
Normalized	99.84%	100%	99.93%
FFmpeg - libx265 - Platform (sec)	**165.342435346**	**164.283143632**	164.426431457
Normalized	99.36%	100%	99.91%
FFmpeg - libx265 - Platform (FPS)	**45.81**	**46.11**	46.07
Normalized	99.35%	100%	99.91%
FFmpeg - libx264 - Video On Demand (sec)	**172.763991753**	**173.168842455**	172.836888824
Normalized	100%	99.77%	99.96%
FFmpeg - libx264 - Video On Demand (FPS)	**43.85**	**43.74**	43.83
Normalized	100%	99.75%	99.95%
FFmpeg - libx265 - Video On Demand (sec)	164.571604391	**165.275021143**	**164.508618057**
Normalized	99.96%	99.54%	100%
FFmpeg - libx265 - Video On Demand (FPS)	46.03	**45.83**	**46.05**
Normalized	99.96%	99.52%	100%
Stress-NG - Hash (Bogo Ops/s)	**6164516**	6162983	**6162877**
Normalized	100%	99.98%	99.97%
Stress-NG - MMAP (Bogo Ops/s)	**1682**	1678	**1674**
Normalized	100%	99.77%	99.52%
Stress-NG - NUMA (Bogo Ops/s)	**10.4**	**10.39**	**10.4**
Normalized	100%	99.9%	100%
Stress-NG - Poll (Bogo Ops/s)	4364352	**4359431**	**4366849**
Normalized	99.94%	99.83%	100%
Stress-NG - Zlib (Bogo Ops/s)	**2192**	**2279**	2277
Normalized	96.17%	100%	99.92%
Stress-NG - Futex (Bogo Ops/s)	2092339	**2015917**	**2565187**
Normalized	81.57%	78.59%	100%
Stress-NG - MEMFD (Bogo Ops/s)	**477.2**	581.73	**697.93**
Normalized	68.37%	83.35%	100%
Stress-NG - Mutex (Bogo Ops/s)	646625	**647817**	**646563**
Normalized	99.82%	100%	99.81%
Stress-NG - Atomic (Bogo Ops/s)	**212.33**	219.87	**244.17**
Normalized	86.96%	90.05%	100%
Stress-NG - Crypto (Bogo Ops/s)	**53953**	53921	**53909**
Normalized	100%	99.94%	99.92%
Stress-NG - Malloc (Bogo Ops/s)	**101322768**	**102311420**	101921464
Normalized	99.03%	100%	99.62%
Stress-NG - Forking (Bogo Ops/s)	**64017**	63473	**63433**
Normalized	100%	99.15%	99.09%
Stress-NG - Pthread (Bogo Ops/s)	**103175**	**103077**	103155
Normalized	100%	99.91%	99.98%
Stress-NG - SENDFILE (Bogo Ops/s)	**686073**	686515	**686516**
Normalized	99.94%	100%	100%
Stress-NG - CPU Cache (Bogo Ops/s)	**62.91**	66.24	**78.63**
Normalized	80.01%	84.24%	100%
Stress-NG - CPU Stress (Bogo Ops/s)	71860	**71930**	**71742**
Normalized	99.9%	100%	99.74%

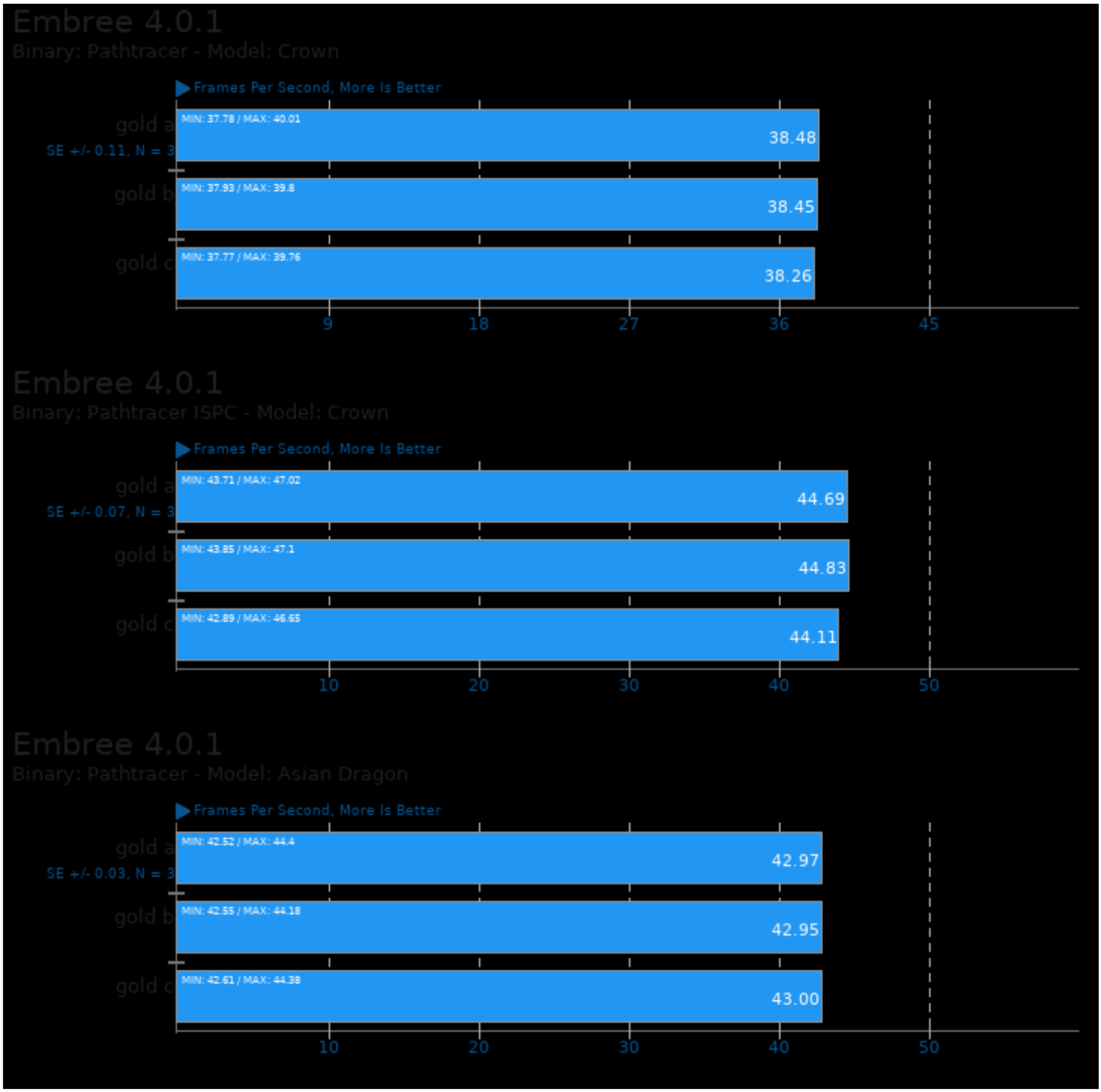
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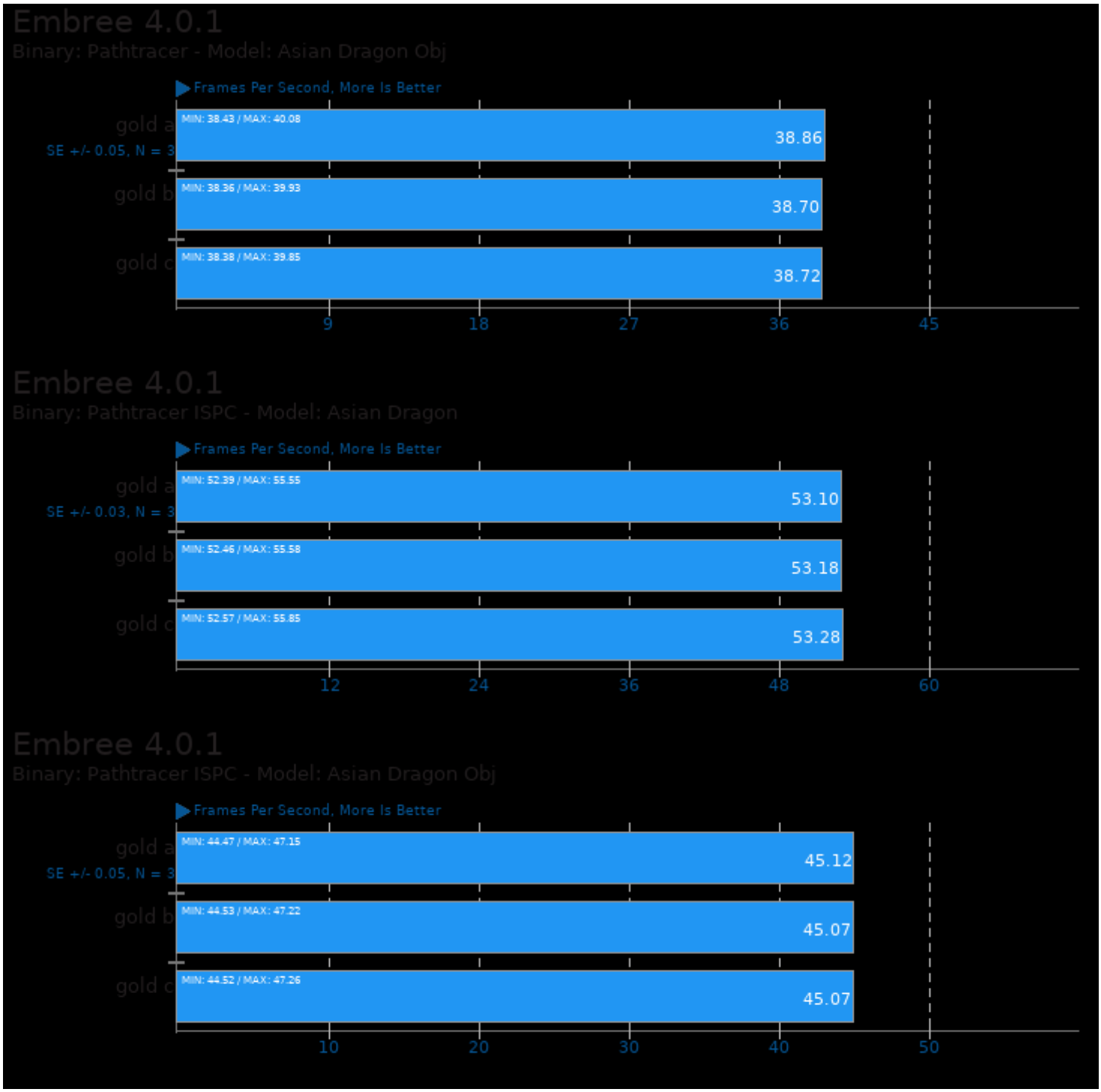
Stress-NG - Semaphores (Bogo Ops/s)	6280947	**6275027**	**6288645**
Normalized	99.88%	99.78%	100%
Stress-NG - Matrix Math (Bogo Ops/s)	**166580**	**166888**	166806
Normalized	99.82%	100%	99.95%
Stress-NG - Vector Math (Bogo Ops/s)	163210	**162458**	**163350**
Normalized	99.91%	99.45%	100%
Stress-NG - Function Call (Bogo Ops/s)	**211070**	211080	**211085**
Normalized	99.99%	100%	100%
Stress-NG - Memory Copying (Bogo Ops/s)	**8323**	**8336**	8331
Normalized	99.84%	100%	99.93%
Stress-NG - Socket Activity (Bogo Ops/s)	9613	**9671**	**9584**
Normalized	99.4%	100%	99.1%
Stress-NG - Context Switching (Bogo Ops/s)	4466474	**4528970**	**4371349**
Normalized	98.62%	100%	96.52%
Stress-NG - G.C.S.F (Bogo Ops/s)	**4936256**	4961695	**4964292**
Normalized	99.44%	99.95%	100%
Stress-NG - G.Q.D.S (Bogo Ops/s)	384.77	**384.67**	**483.71**
Normalized	79.55%	79.52%	100%
Stress-NG - S.V.M.P (Bogo Ops/s)	**6348106**	**6377638**	6358009
Normalized	99.54%	100%	99.69%
OpenSSL - SHA256 (byte/s)	**29239510850**	**29263895650**	29253579340
Normalized	99.92%	100%	99.96%
OpenSSL - SHA512 (byte/s)	**11409621800**	11414242030	**11419031140**
Normalized	99.92%	99.96%	100%
OpenSSL - RSA4096 (sign/s)	**19982**	20010	**20011**
Normalized	99.86%	100%	100%
OpenSSL - RSA4096 (verify/s)	**579794**	580484	**580707**
Normalized	99.84%	99.96%	100%
OpenSSL - ChaCha20 (byte/s)	209832350790	**209821666510**	**209847599380**
Normalized	99.99%	99.99%	100%
OpenSSL - AES-128-GCM (byte/s)	**424787655880**	**426789013640**	425541758160
Normalized	99.53%	100%	99.71%
OpenSSL - AES-256-GCM (byte/s)	**376063798200**	375306501600	**375257391920**
Normalized	100%	99.8%	99.79%
OpenSSL - ChaCha20-Poly1305 (byte/s)	**149125810860**	**149247512300**	149227084190
Normalized	99.92%	100%	99.99%
Stress-NG - x86_64 RdRand (Bogo Ops/s)	**669146**	**670196**	669155
Normalized	99.84%	100%	99.84%
John The Ripper - bcrypt (Real C/S)	**55949**	**55987**	55968
Normalized	99.93%	100%	99.97%
John The Ripper - WPA PSK (Real C/S)	256733	**256546**	**256870**
Normalized	99.95%	99.87%	100%
John The Ripper - Blowfish (Real C/S)	55968	**55987**	**55949**
Normalized	99.97%	100%	99.93%
John The Ripper - HMAC-SHA512 (Real C/S)	**137654000**	**139150000**	137763000
Normalized	98.92%	100%	99%
John The Ripper - MD5 (Real C/S)	**5703000**	**5693000**	5695000
Normalized	100%	99.82%	99.86%

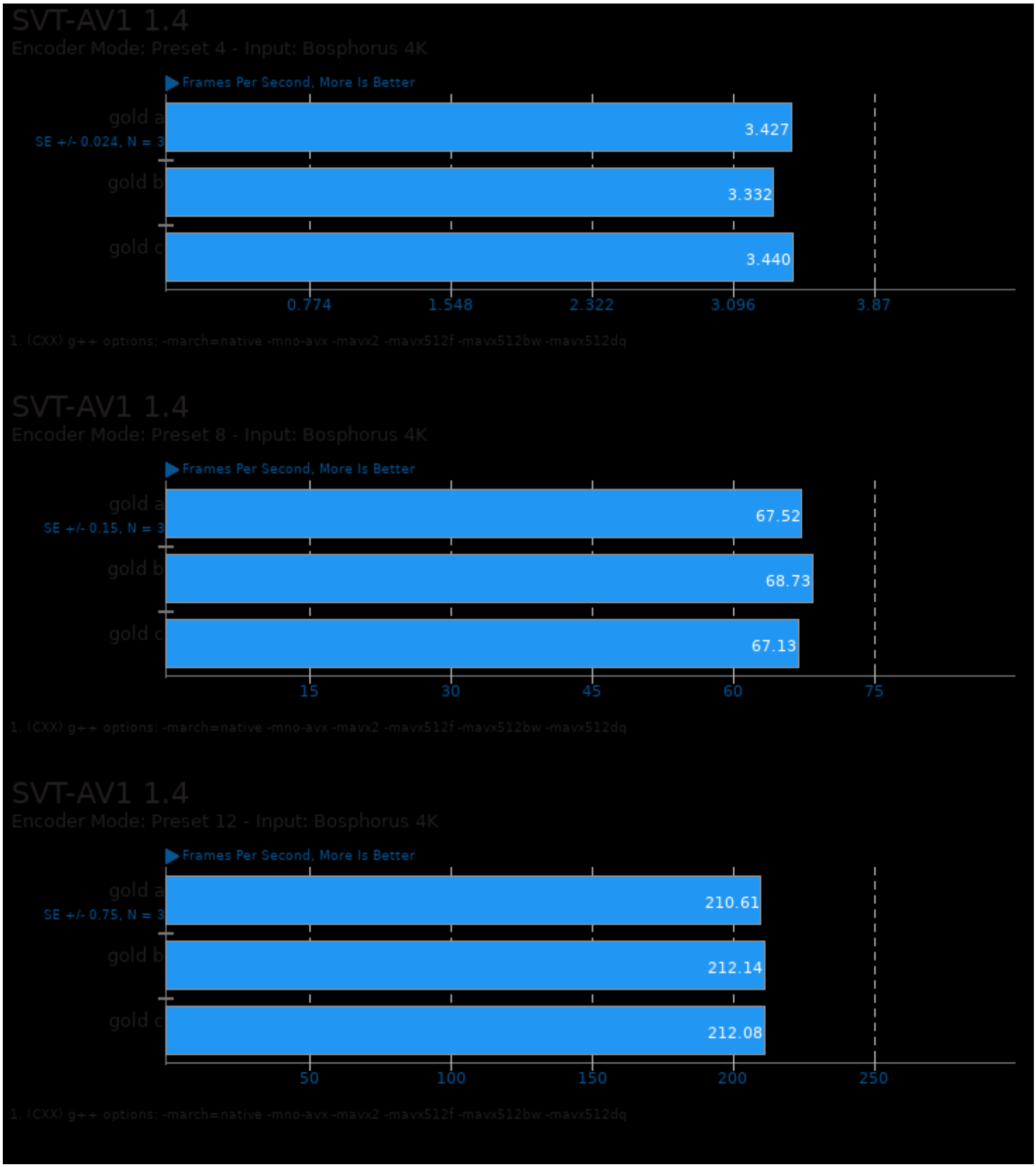
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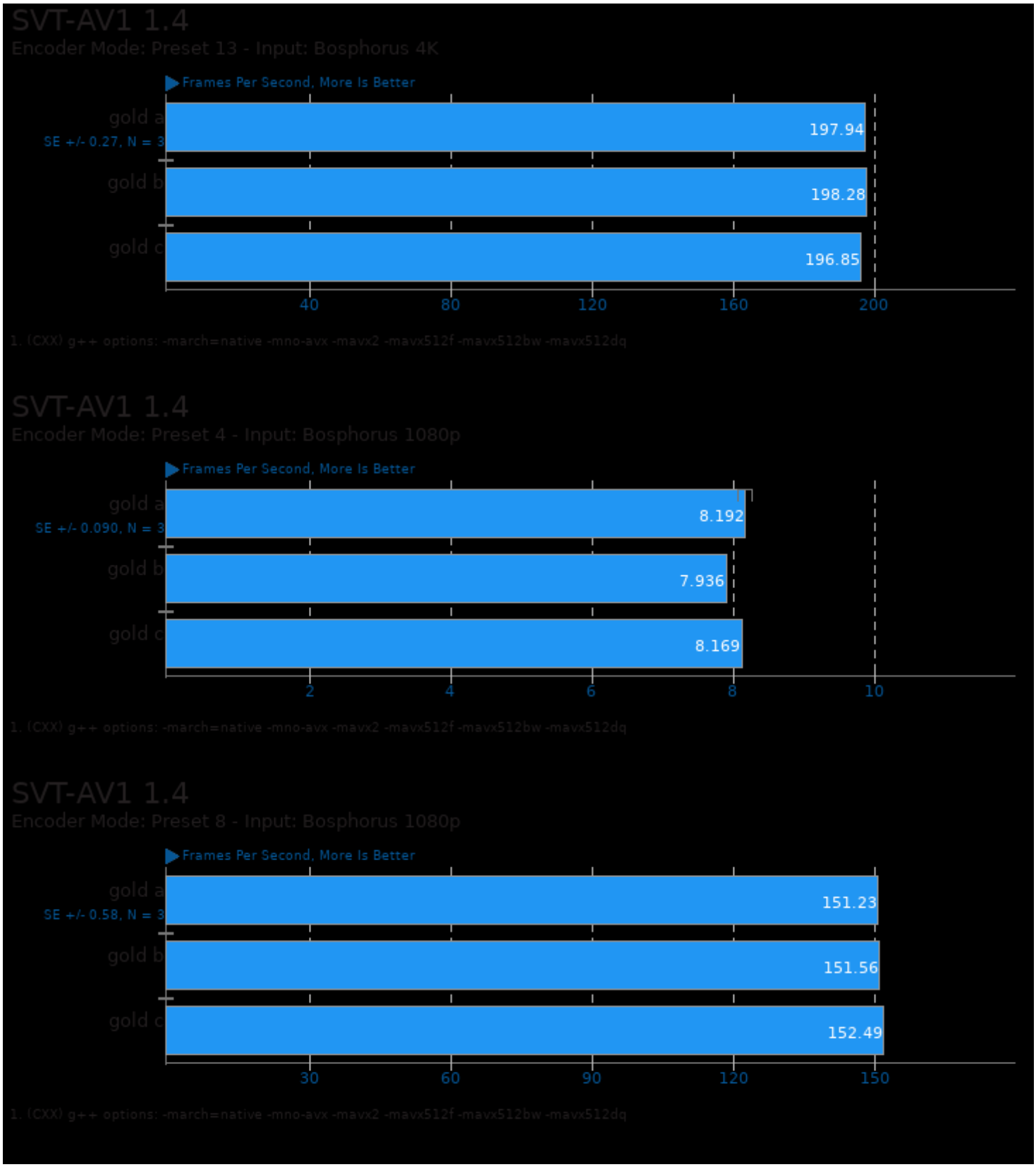
Darmstadt Automotive Parallel Heterogeneous Suite - OpenMP - NDT Mapping (Test Cases/min)	1153	**1153**	**1147**
Normalized	99.98%	100%	99.53%
Darmstadt Automotive Parallel Heterogeneous Suite - OpenMP - Points2Image (Test Cases/min)	**15183**	15038	**14853**
Normalized	100%	99.04%	97.82%
Darmstadt Automotive Parallel Heterogeneous Suite - OpenMP - Euclidean Cluster (Test Cases/min)	**917.90**	**924.25**	923.02
Normalized	99.31%	100%	99.87%
Google Draco - Lion (ms)	**5250**	5206	**5174**
Normalized	98.55%	99.39%	100%
Google Draco - Church Facade (ms)	**6467**	6434	**6396**
Normalized	98.9%	99.41%	100%

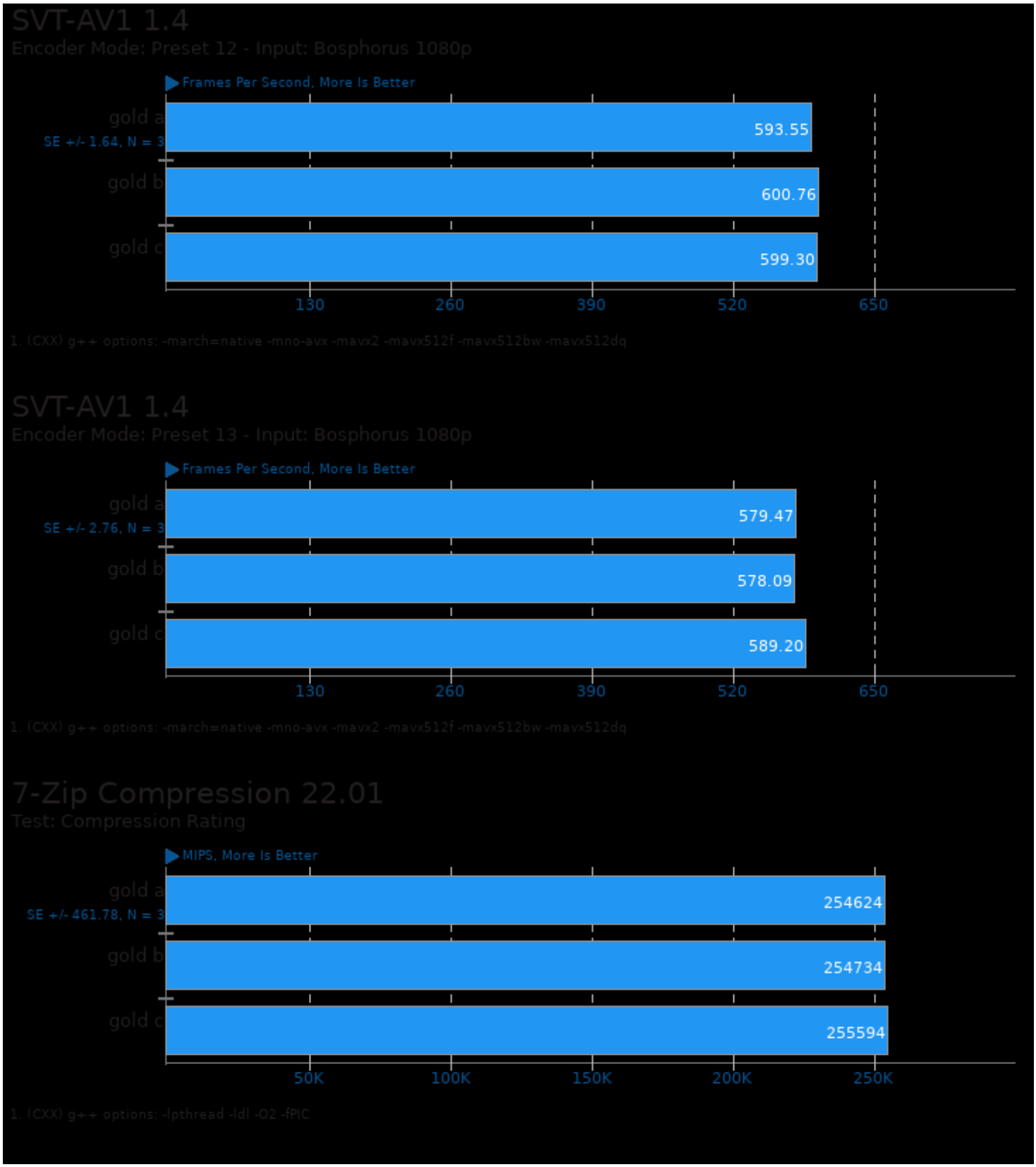
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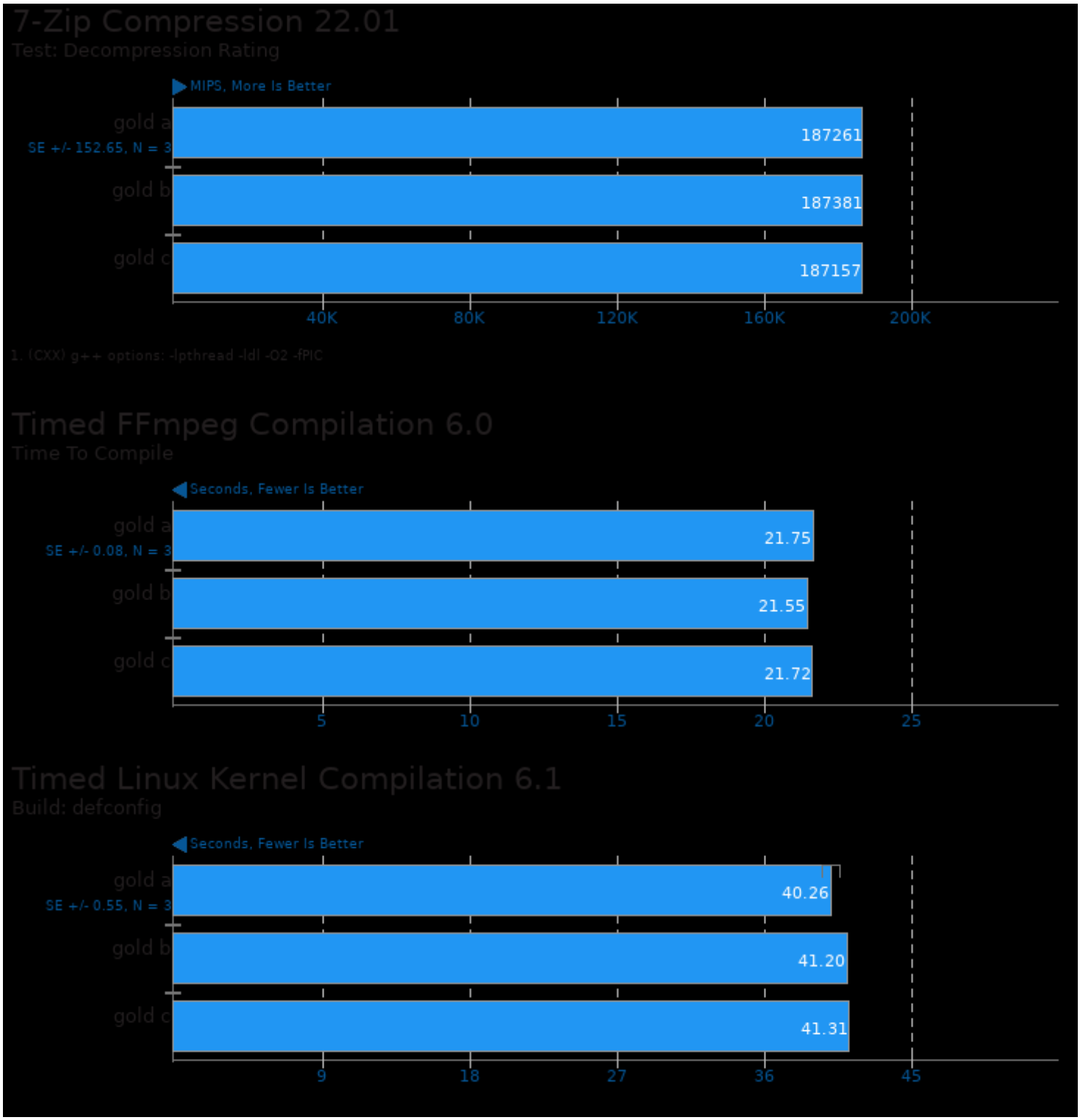


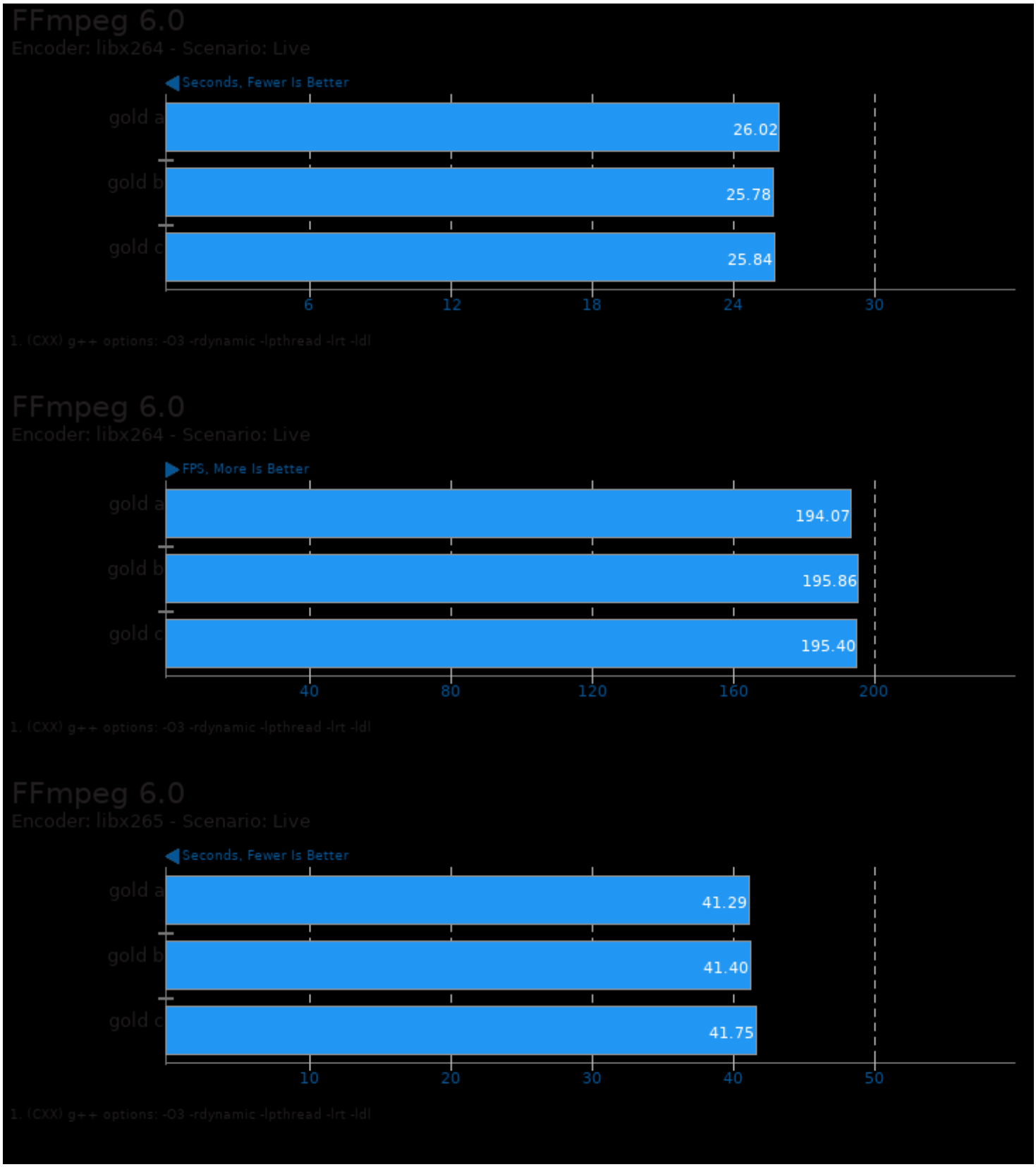

Embree 4.0.1
Binary: Pathtracer - Model: Asian Dragon Obj
Frames Per Second, More Is Better
gold a
SE +/- 0.05, N = 3
MIN: 38.43 / MAX: 40.08
38.86
gold b
MIN: 38.36 / MAX: 39.93
38.70
gold c
MIN: 38.38 / MAX: 39.85
38.72
9
18
27
36
45
Embree 4.0.1
Binary: Pathtracer ISPC - Model: Asian Dragon
Frames Per Second, More Is Better
gold a
SE +/- 0.03, N = 3
MIN: 52.39 / MAX: 55.55
53.10
gold b
MIN: 52.46 / MAX: 55.58
53.18
gold c
MIN: 52.57 / MAX: 55.85
53.28
12
24
36
48
60
Embree 4.0.1
Binary: Pathtracer ISPC - Model: Asian Dragon Obj
Frames Per Second, More Is Better
gold a
SE +/- 0.05, N = 3
MIN: 44.47 / MAX: 47.15
45.12
gold b
MIN: 44.53 / MAX: 47.22
45.07
gold c
MIN: 44.52 / MAX: 47.26
45.07
10
20
30
40
50

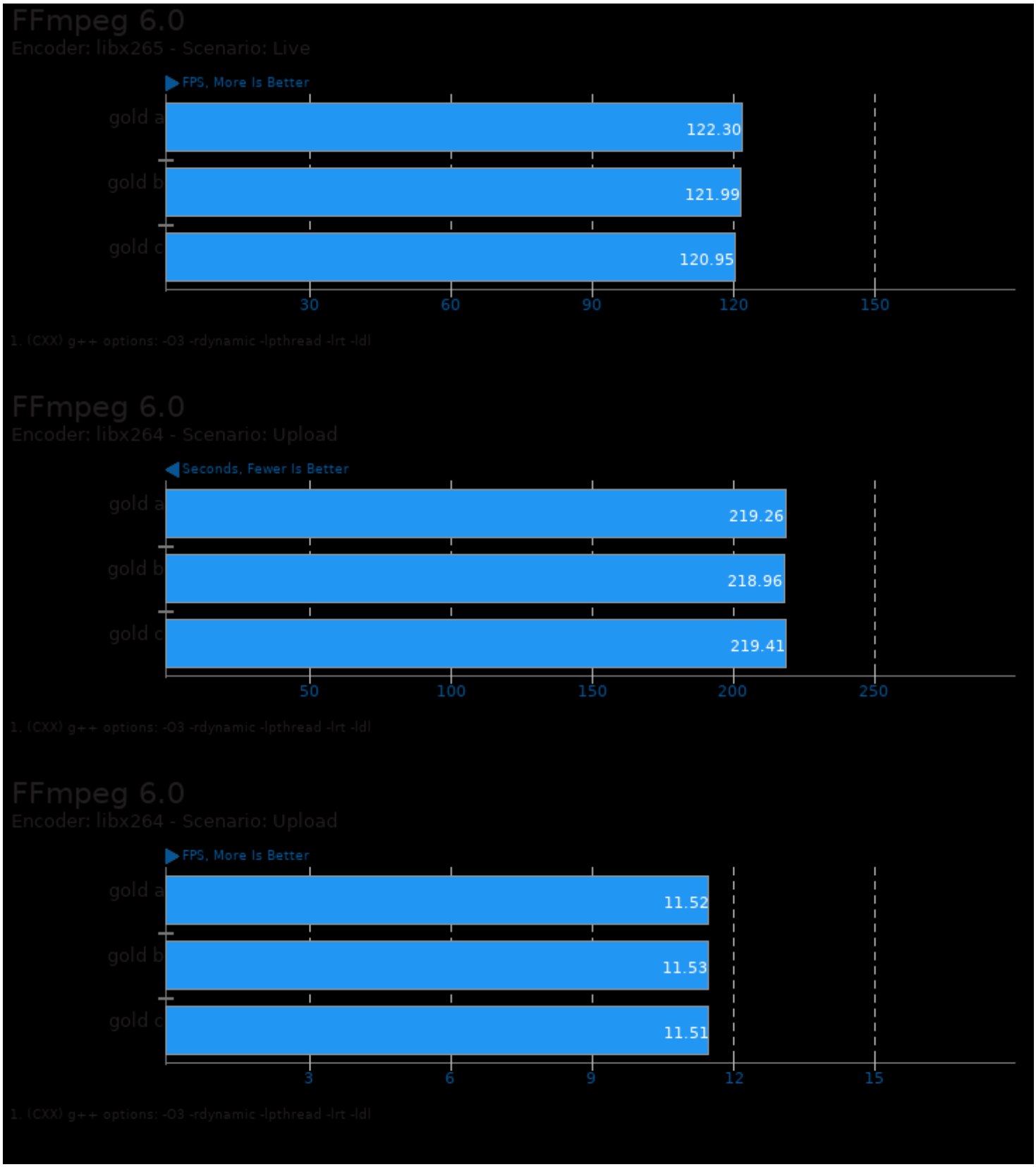

SVT-AV1 1.4
Encoder Mode: Preset 4 - Input: Bosphorus 4K
Frames Per Second, More Is Better
gold a
SE +/- 0.024, N = 3
3.427
gold b
3.332
gold c
3.440
0.774
1.548
2.322
3.096
3.87
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.4
Encoder Mode: Preset 8 - Input: Bosphorus 4K
Frames Per Second, More Is Better
gold a
SE +/- 0.15, N = 3
67.52
gold b
68.73
gold c
67.13
15
30
45
60
75
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.4
Encoder Mode: Preset 12 - Input: Bosphorus 4K
Frames Per Second, More Is Better
gold a
SE +/- 0.75, N = 3
210.61
gold b
212.14
gold c
212.08
50
100
150
200
250
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

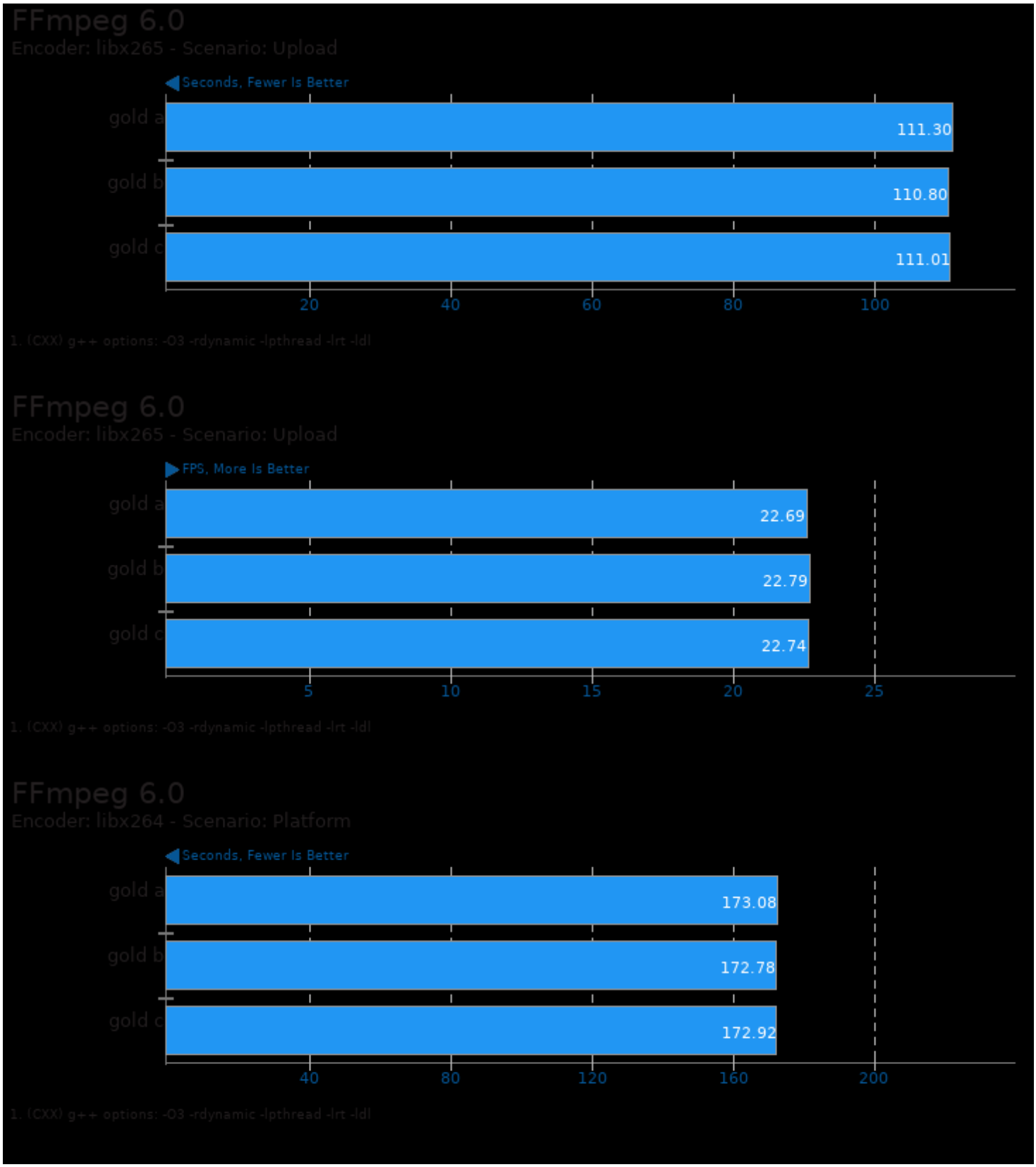

SVT-AV1 1.4
Encoder Mode: Preset 13 - Input: Bosphorus 4K
Frames Per Second, More Is Better
gold a
SE +/- 0.27, N = 3
197.94
gold b
198.28
gold c
196.85
40
80
120
160
200
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.4
Encoder Mode: Preset 4 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
gold a
SE +/- 0.090, N = 3
8.192
gold b
7.936
gold c
8.169
2
4
6
8
10
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.4
Encoder Mode: Preset 8 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
gold a
SE +/- 0.58, N = 3
151.23
gold b
151.56
gold c
152.49
30
60
90
120
150
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

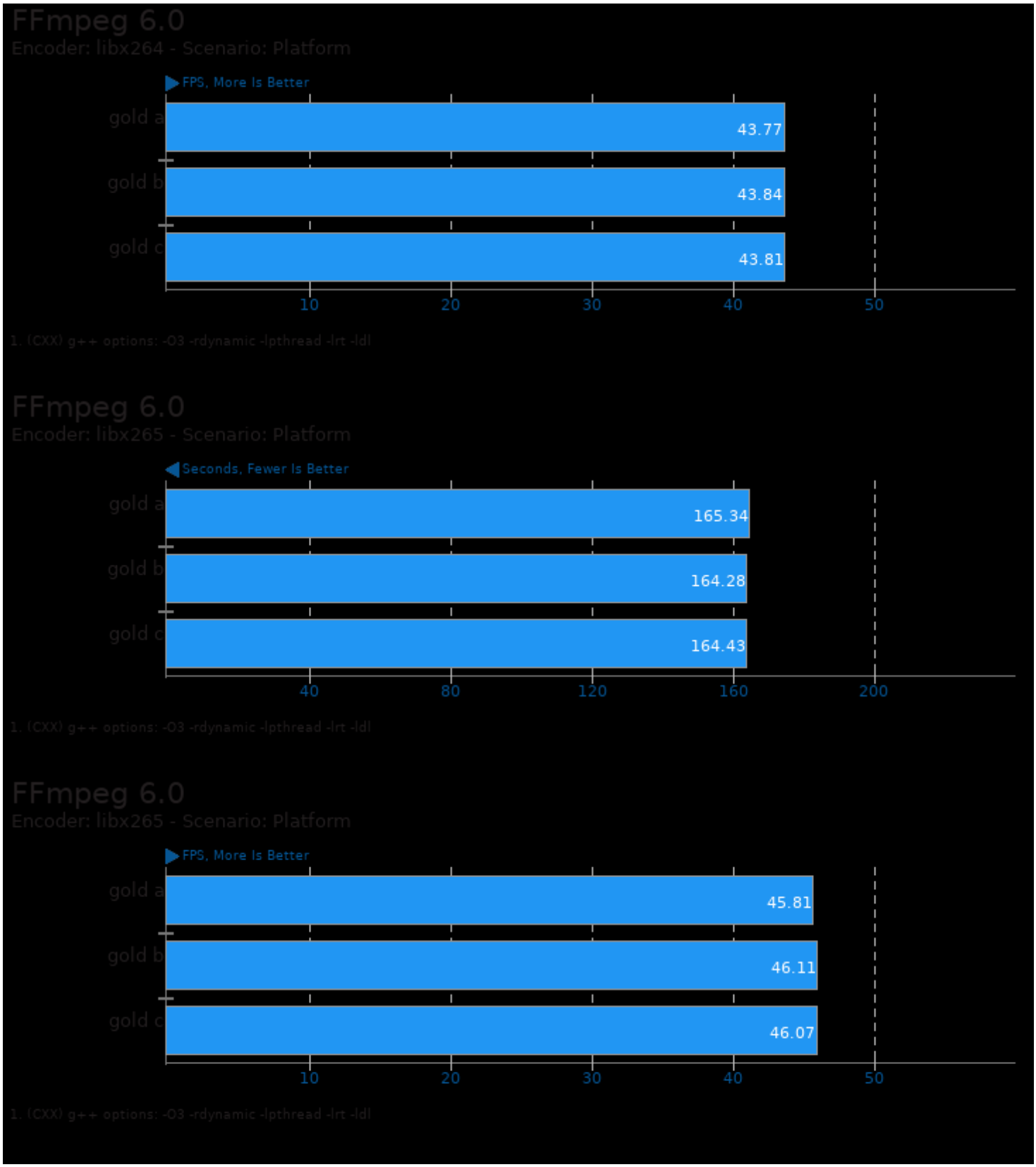

SVT-AV1 1.4
Encoder Mode: Preset 12 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
gold a
SE +/- 1.64, N = 3
593.55
gold b
600.76
gold c
599.30
130
260
390
520
650
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.4
Encoder Mode: Preset 13 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
gold a
SE +/- 2.76, N = 3
579.47
gold b
578.09
gold c
589.20
130
260
390
520
650
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
7-Zip Compression 22.01
Test: Compression Rating
MIPS, More Is Better
gold a
SE +/- 461.78, N = 3
254624
gold b
254734
gold c
255594
50K
100K
150K
200K
250K
1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC

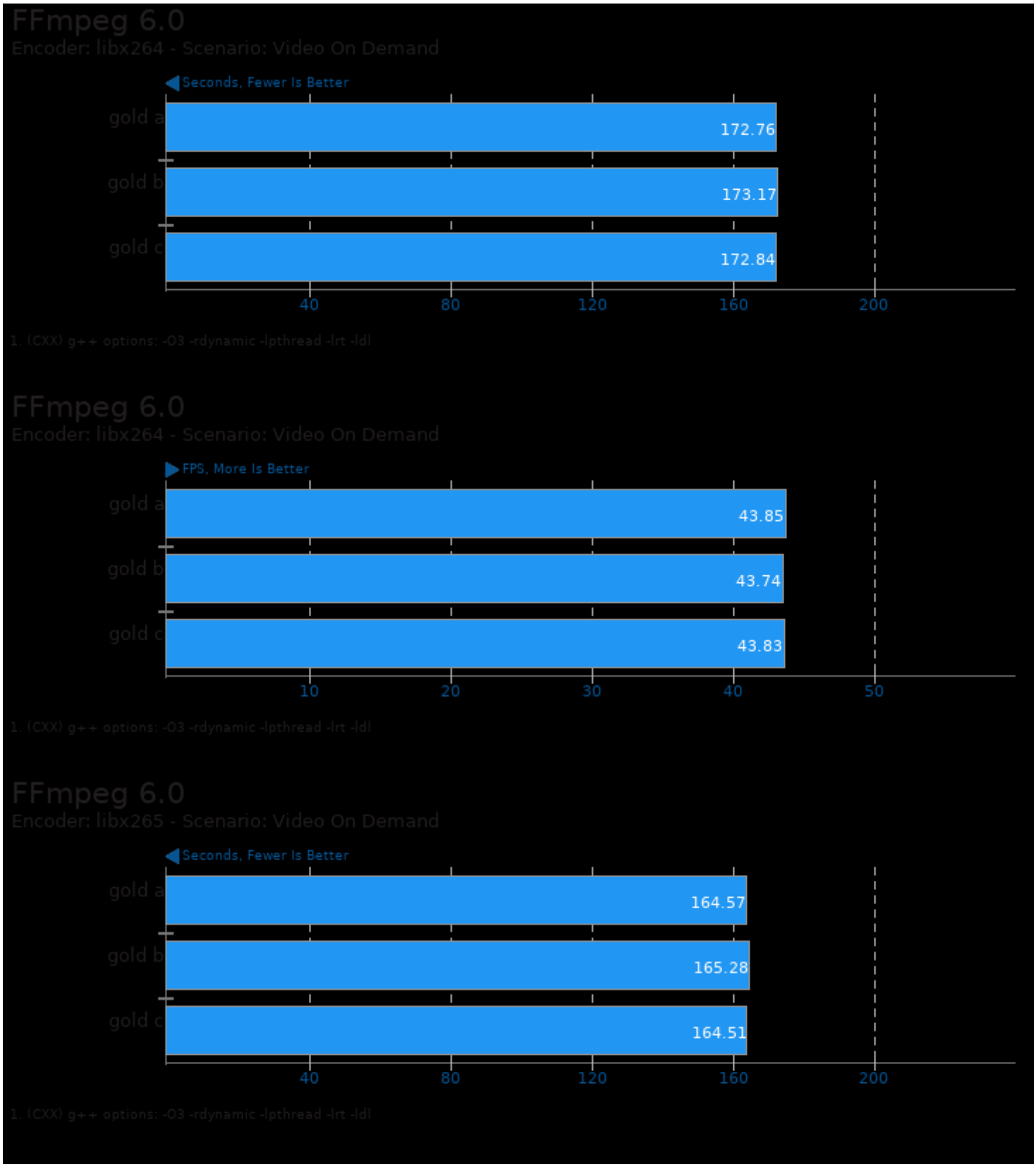

7-Zip Compression 22.01
Test: Decompression Rating
MIPS, More Is Better
gold a
SE +/- 152.65, N = 3
187261
gold b
187381
gold c
187157
40K
80K
120K
160K
200K
1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC
Timed FFmpeg Compilation 6.0
Time To Compile
Seconds, Fewer Is Better
gold a
SE +/- 0.08, N = 3
21.75
gold b
21.55
gold c
21.72
5
10
15
20
25
Timed Linux Kernel Compilation 6.1
Build: defconfig
Seconds, Fewer Is Better
gold a
SE +/- 0.55, N = 3
40.26
gold b
41.20
gold c
41.31
9
18
27
36
45


FFmpeg 6.0
Encoder: libx264 - Scenario: Live
Seconds, Fewer Is Better
gold a
gold b
gold c
26.02
25.78
25.84
6
12
18
24
30
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx264 - Scenario: Live
FPS, More Is Better
gold a
gold b
gold c
194.07
195.86
195.40
40
80
120
160
200
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx265 - Scenario: Live
Seconds, Fewer Is Better
gold a
gold b
gold c
41.29
41.40
41.75
10
20
30
40
50
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl


FFmpeg 6.0
Encoder: libx265 - Scenario: Live
FPS, More Is Better
gold a
gold b
gold c
122.30
121.99
120.95
30
60
90
120
150
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx264 - Scenario: Upload
Seconds, Fewer Is Better
gold a
gold b
gold c
219.26
218.96
219.41
50
100
150
200
250
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx264 - Scenario: Upload
FPS, More Is Better
gold a
gold b
gold c
11.52
11.53
11.51
3
6
9
12
15
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

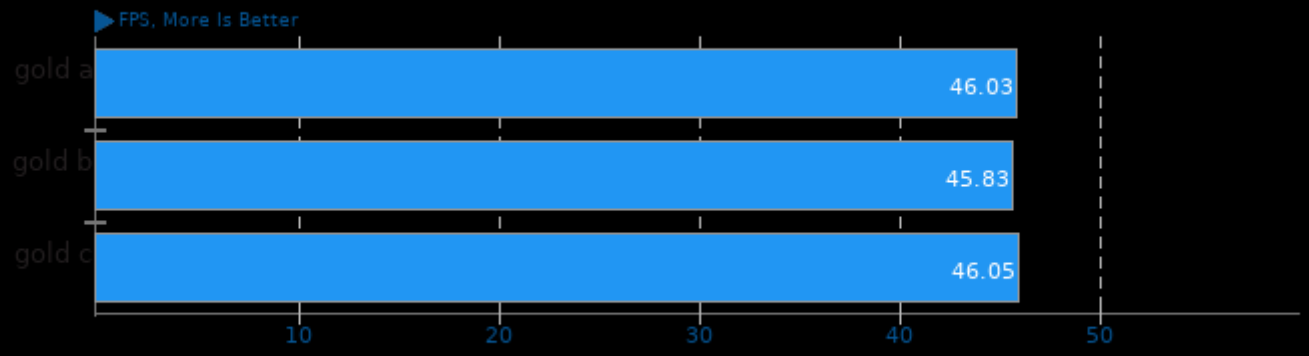

FFmpeg 6.0
Encoder: libx265 - Scenario: Upload
Seconds, Fewer Is Better
gold a
gold b
gold c
111.30
110.80
111.01
20
40
60
80
100
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx265 - Scenario: Upload
FPS, More Is Better
gold a
gold b
gold c
22.69
22.79
22.74
5
10
15
20
25
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx264 - Scenario: Platform
Seconds, Fewer Is Better
gold a
gold b
gold c
173.08
172.78
172.92
40
80
120
160
200
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl


FFmpeg 6.0
Encoder: libx264 - Scenario: Platform
FPS, More Is Better
gold a
gold b
gold c
43.77
43.84
43.81
10
20
30
40
50
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx265 - Scenario: Platform
Seconds, Fewer Is Better
gold a
gold b
gold c
165.34
164.28
164.43
40
80
120
160
200
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx265 - Scenario: Platform
FPS, More Is Better
gold a
gold b
gold c
45.81
46.11
46.07
10
20
30
40
50
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl


FFmpeg 6.0
Encoder: libx264 - Scenario: Video On Demand
Seconds, Fewer Is Better
gold a
gold b
gold c
172.76
173.17
172.84
40
80
120
160
200
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx264 - Scenario: Video On Demand
FPS, More Is Better
gold a
gold b
gold c
43.85
43.74
43.83
10
20
30
40
50
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl
FFmpeg 6.0
Encoder: libx265 - Scenario: Video On Demand
Seconds, Fewer Is Better
gold a
gold b
gold c
164.57
165.28
164.51
40
80
120
160
200
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

FFmpeg 6.0

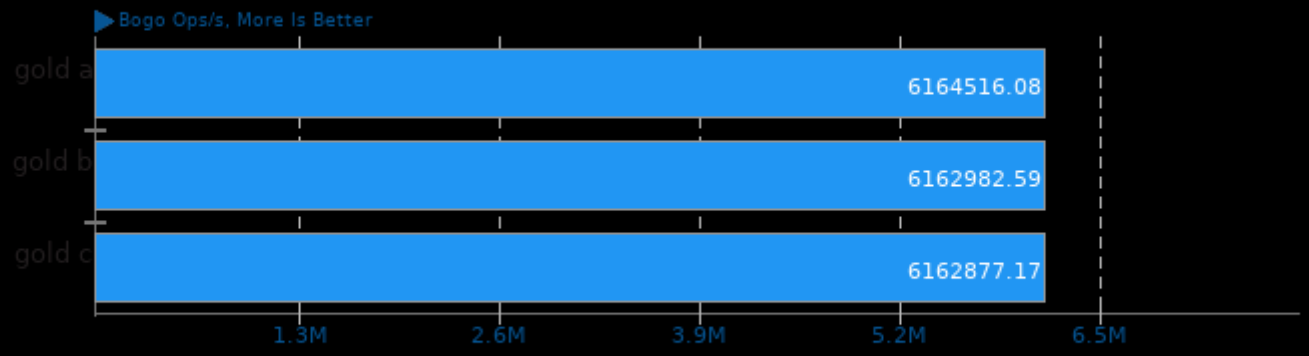
Encoder: libx265 - Scenario: Video On Demand



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

Stress-NG 0.15.04

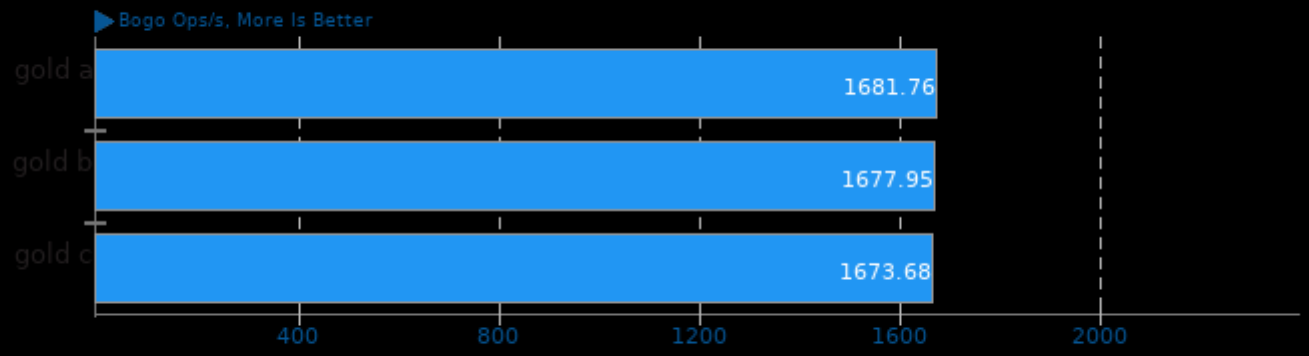
Test: Hash



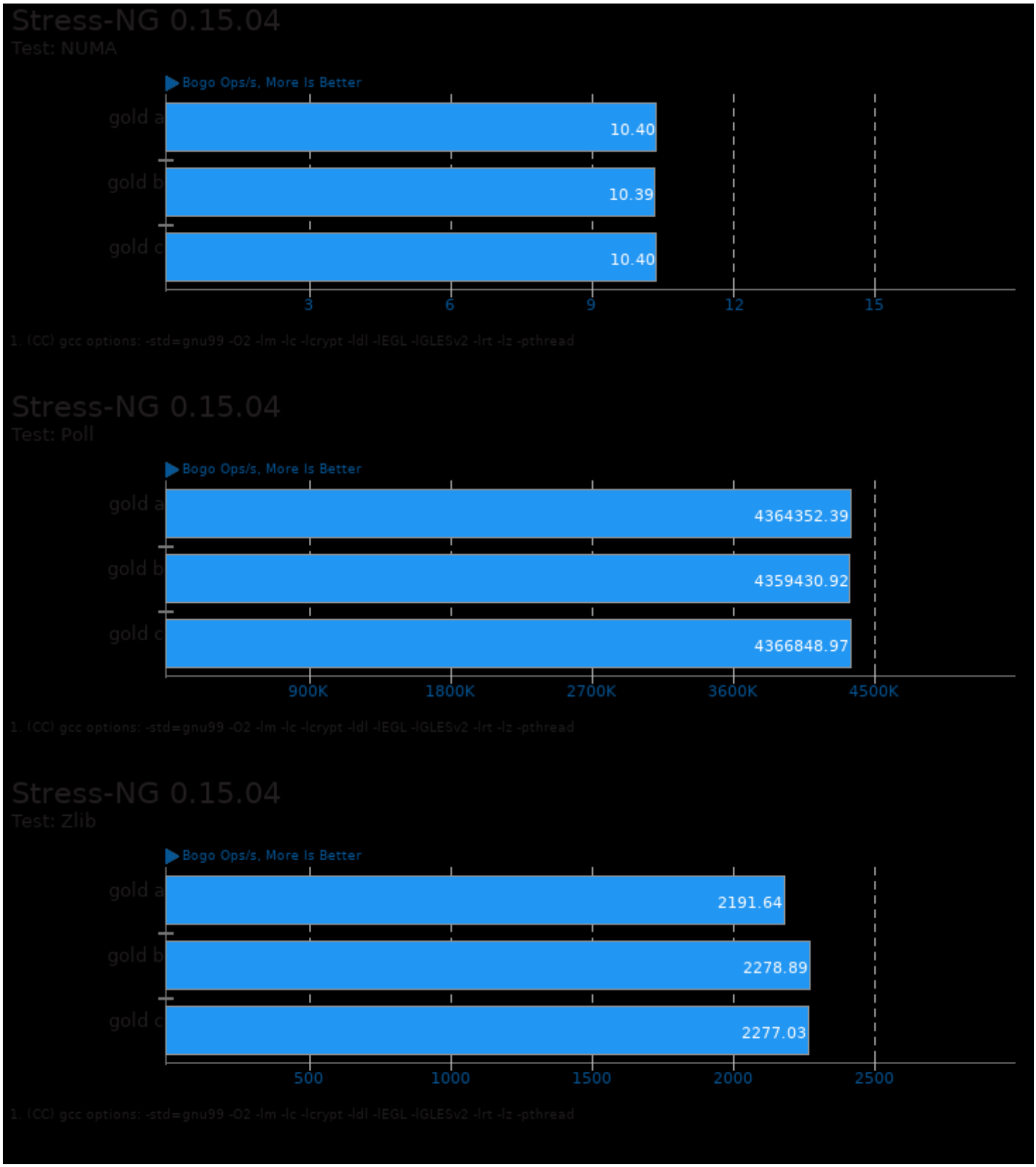
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread

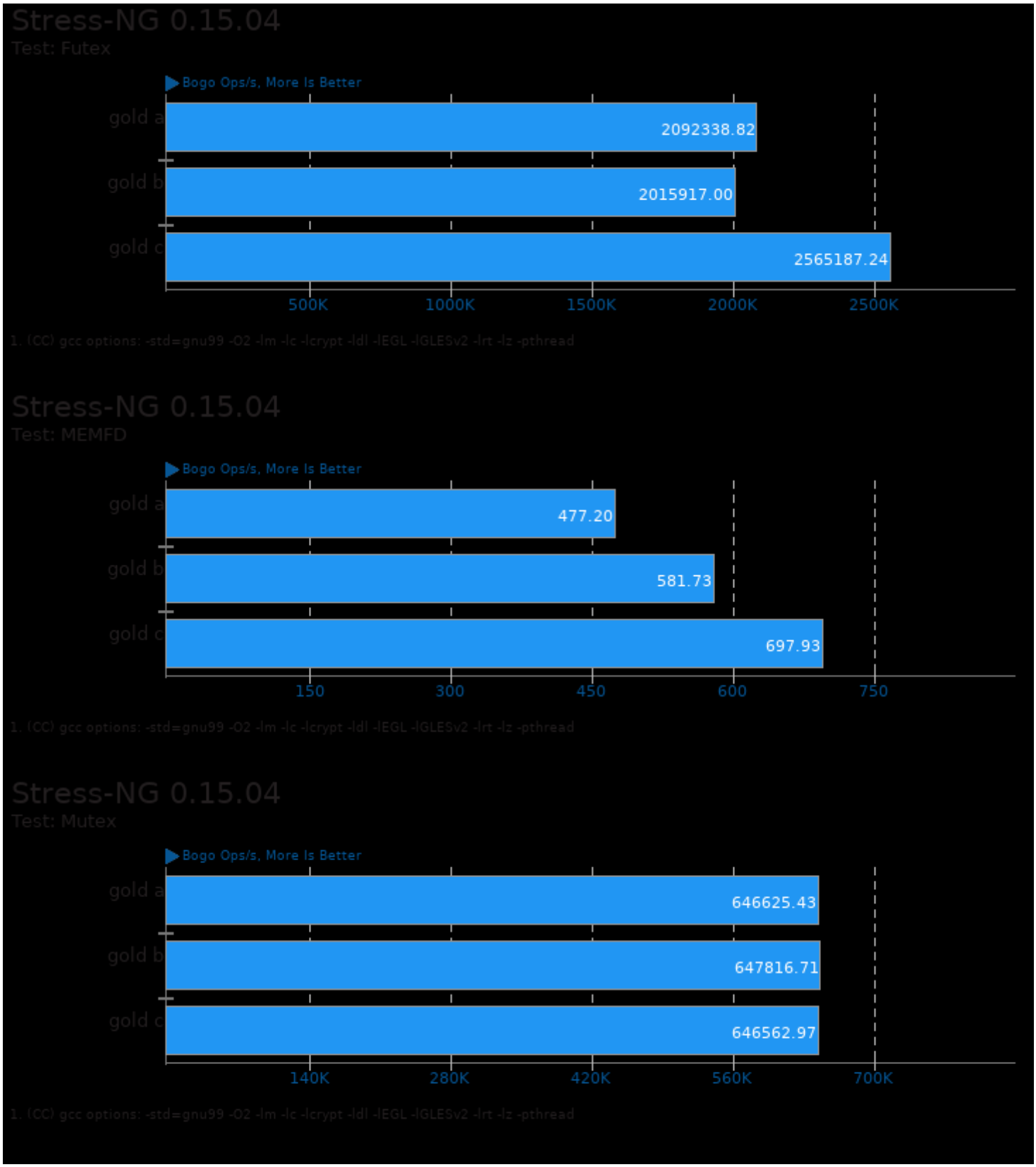
Stress-NG 0.15.04

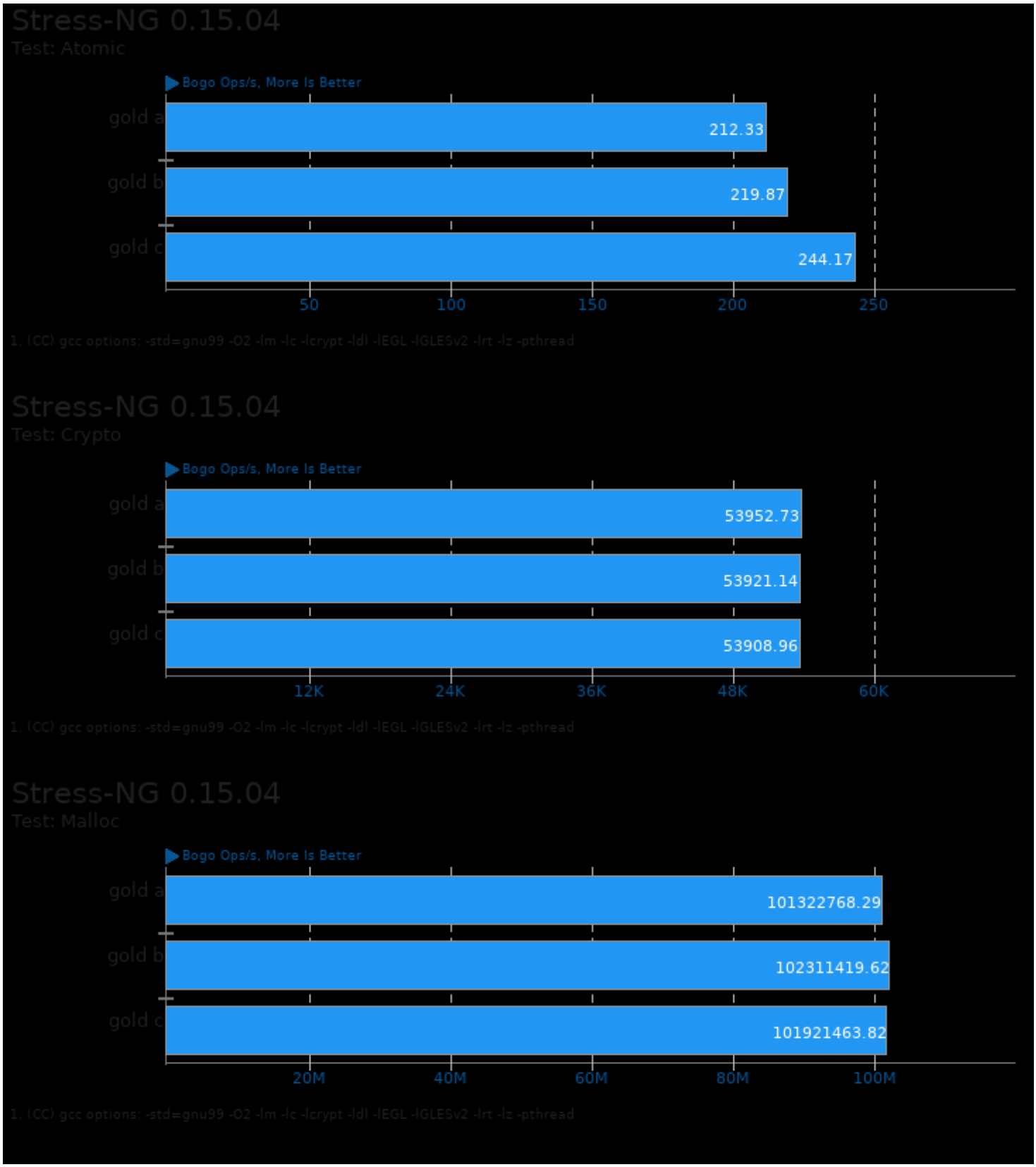
Test: MMAP

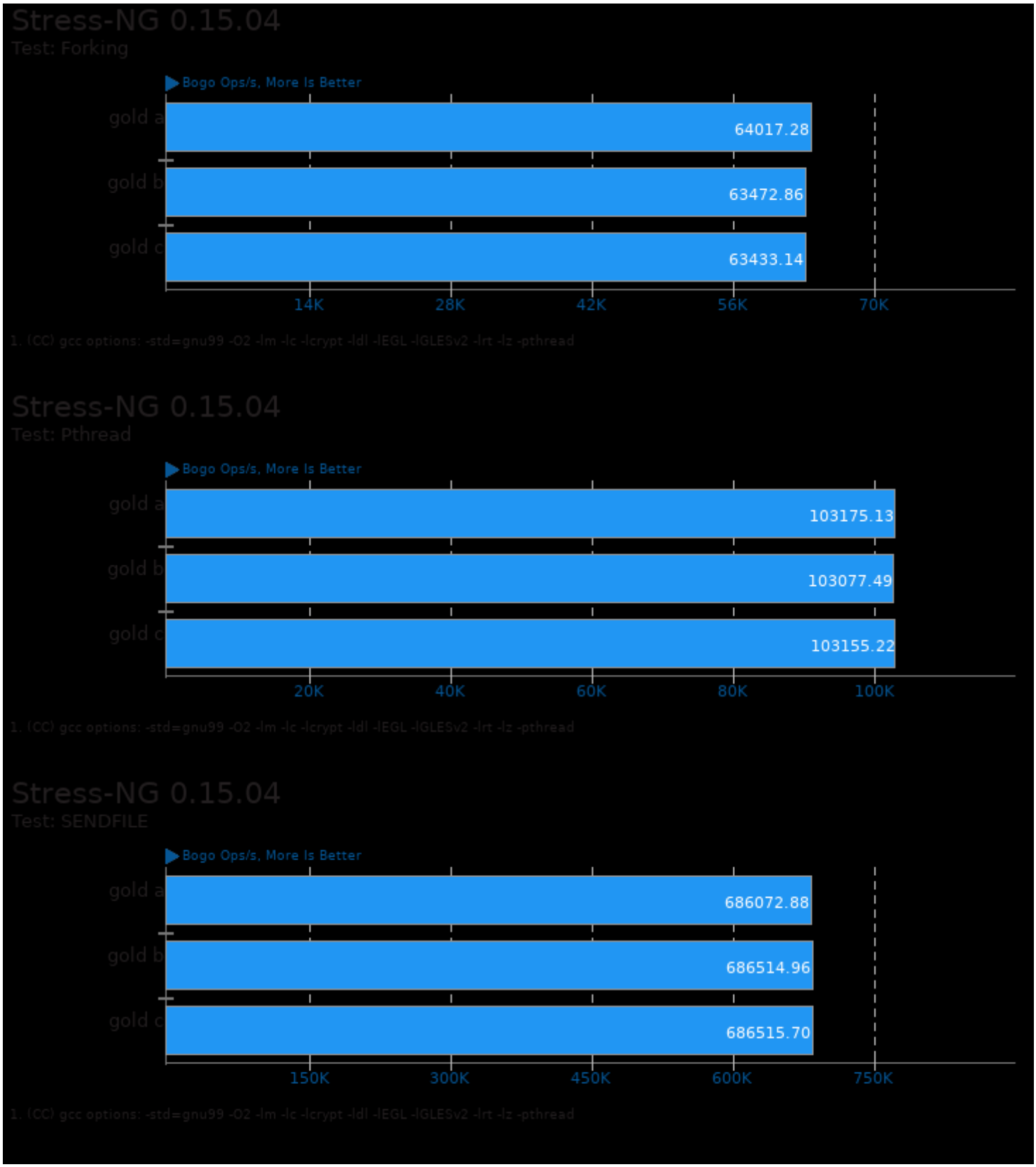


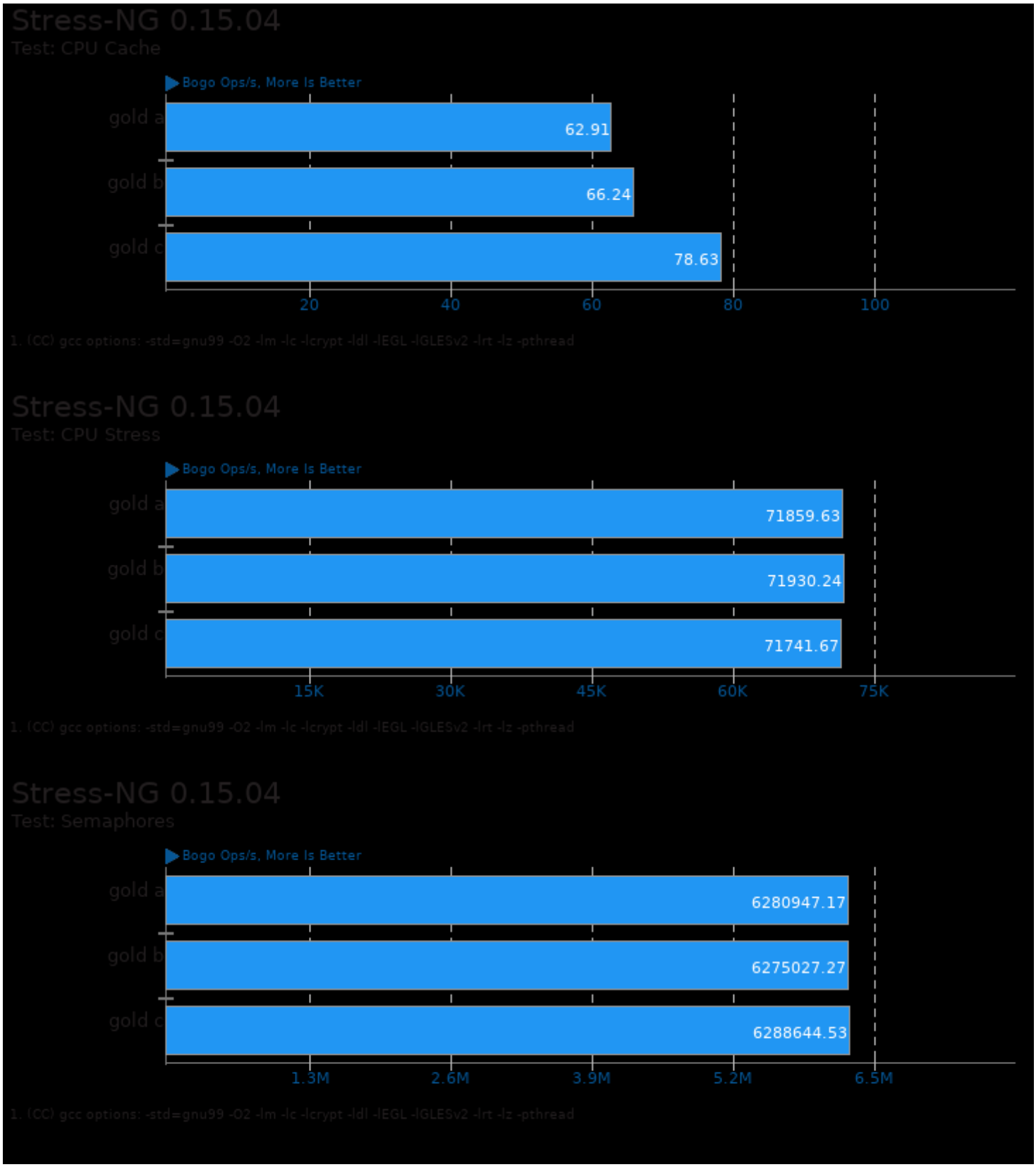
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread

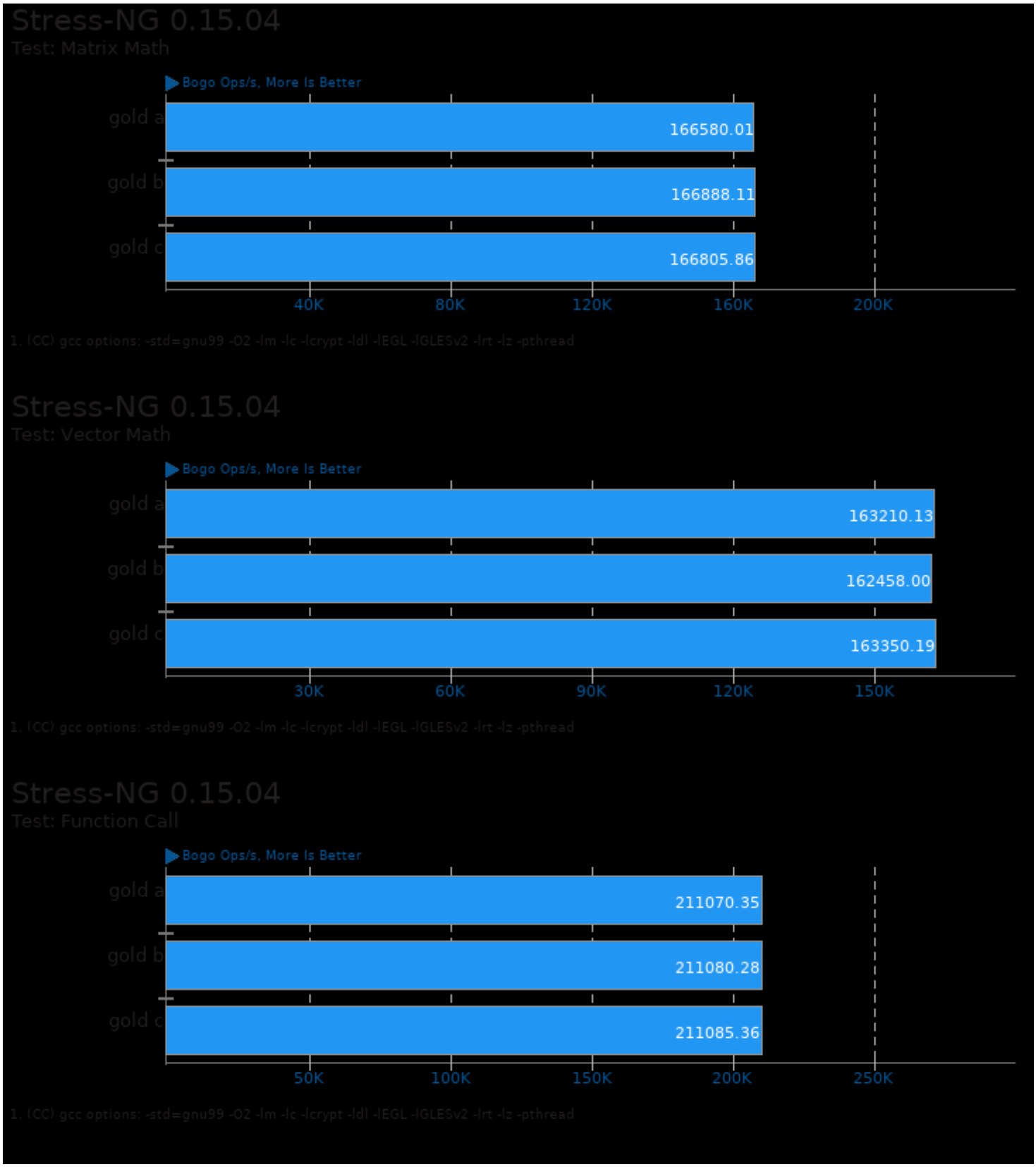

Stress-NG 0.15.04
Test: NUMA
Bogo Ops/s, More Is Better
gold a
gold b
gold c
10.40
10.39
10.40
3
6
9
12
15
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Poll
Bogo Ops/s, More Is Better
gold a
gold b
gold c
4364352.39
4359430.92
4366848.97
900K
1800K
2700K
3600K
4500K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Zlib
Bogo Ops/s, More Is Better
gold a
gold b
gold c
2191.64
2278.89
2277.03
500
1000
1500
2000
2500
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread

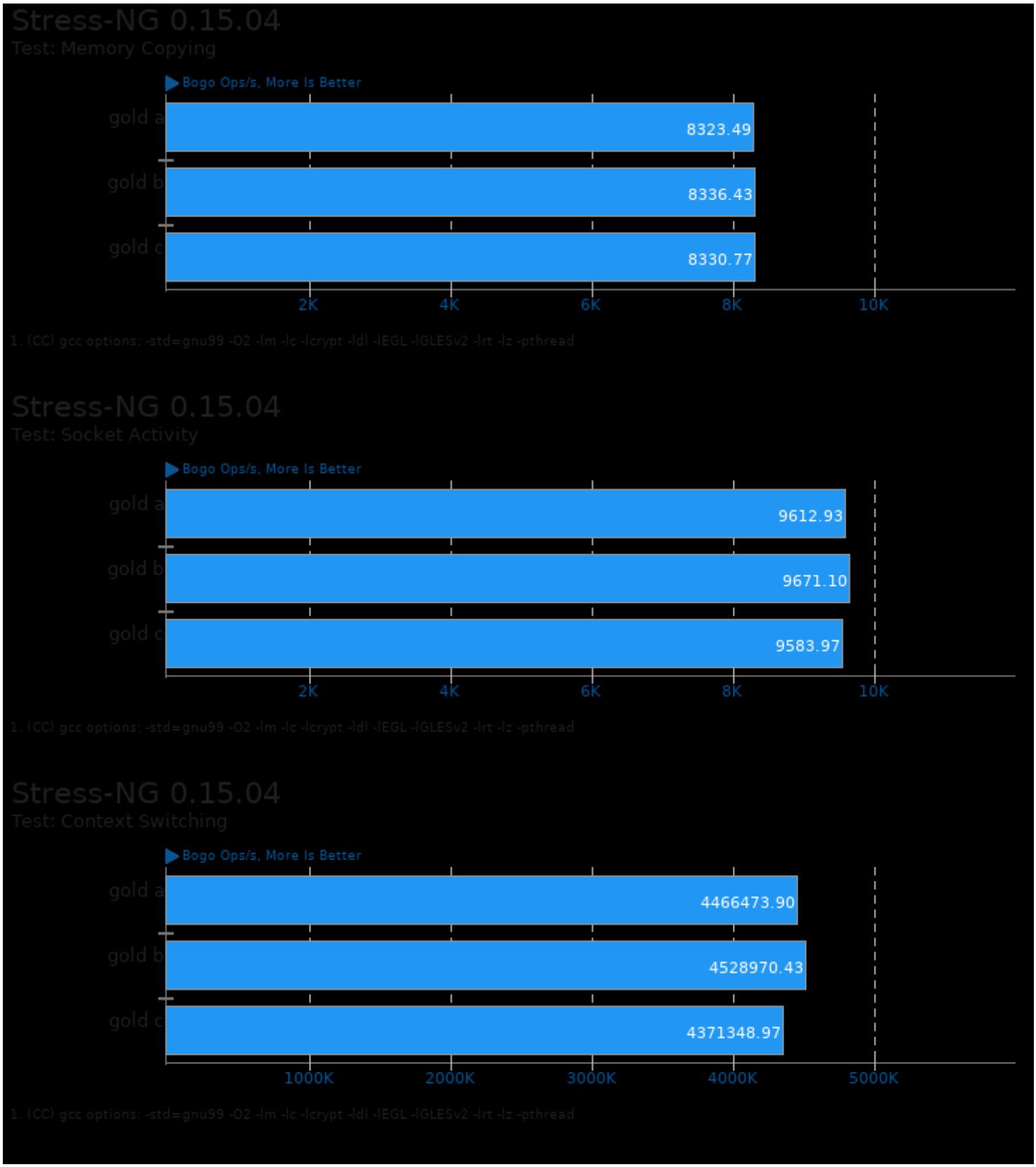

Stress-NG 0.15.04
Test: Futex
Bogo Ops/s, More Is Better
gold a
gold b
gold c
2092338.82
2015917.00
2565187.24
500K
1000K
1500K
2000K
2500K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: MEMFD
Bogo Ops/s, More Is Better
gold a
gold b
gold c
477.20
581.73
697.93
150
300
450
600
750
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Mutex
Bogo Ops/s, More Is Better
gold a
gold b
gold c
646625.43
647816.71
646562.97
140K
280K
420K
560K
700K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread

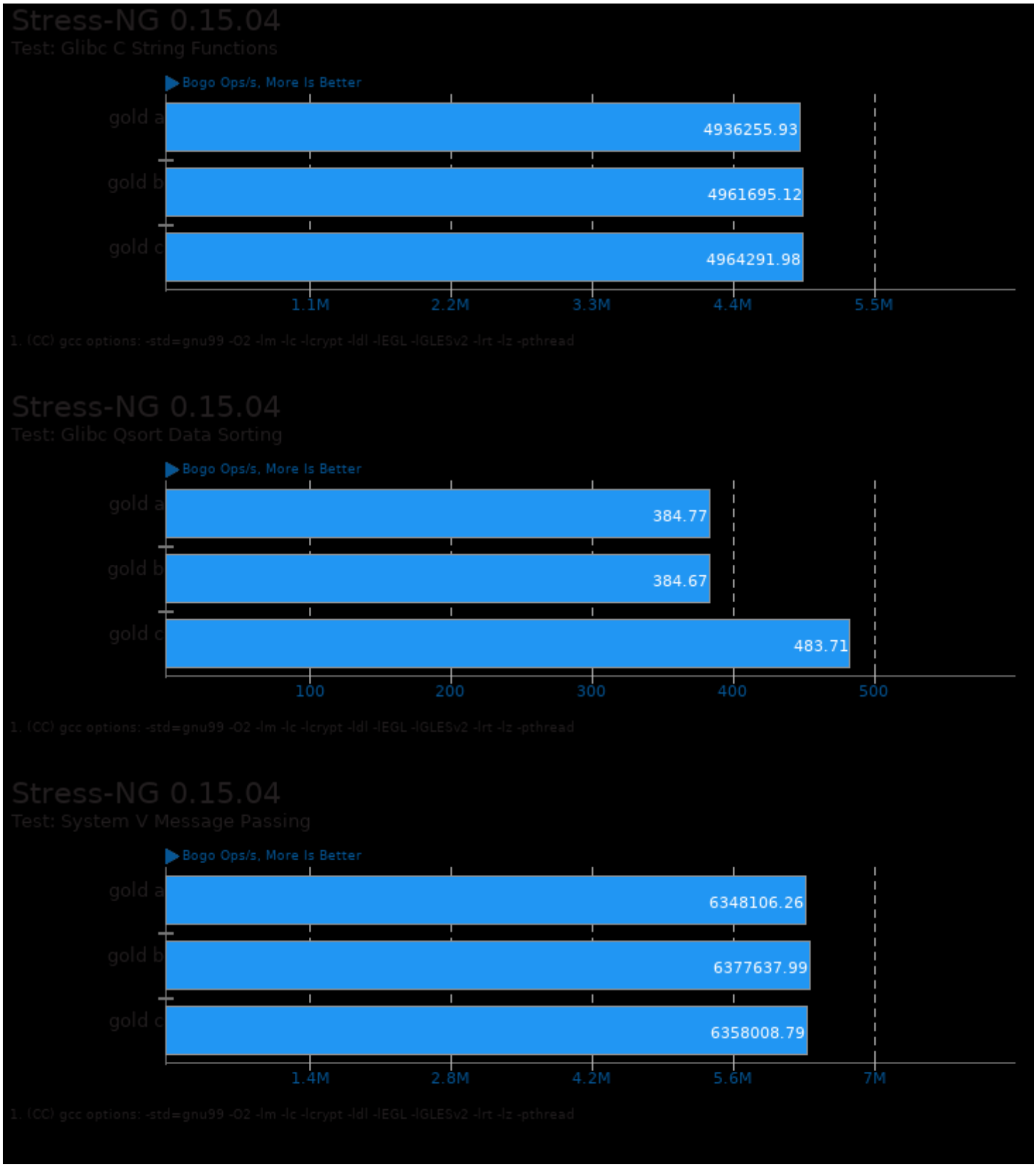

Stress-NG 0.15.04
Test: Atomic
Bogo Ops/s, More Is Better
gold a
gold b
gold c
212.33
219.87
244.17
50
100
150
200
250
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Crypto
Bogo Ops/s, More Is Better
gold a
gold b
gold c
53952.73
53921.14
53908.96
12K
24K
36K
48K
60K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Malloc
Bogo Ops/s, More Is Better
gold a
gold b
gold c
101322768.29
102311419.62
101921463.82
20M
40M
60M
80M
100M
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread

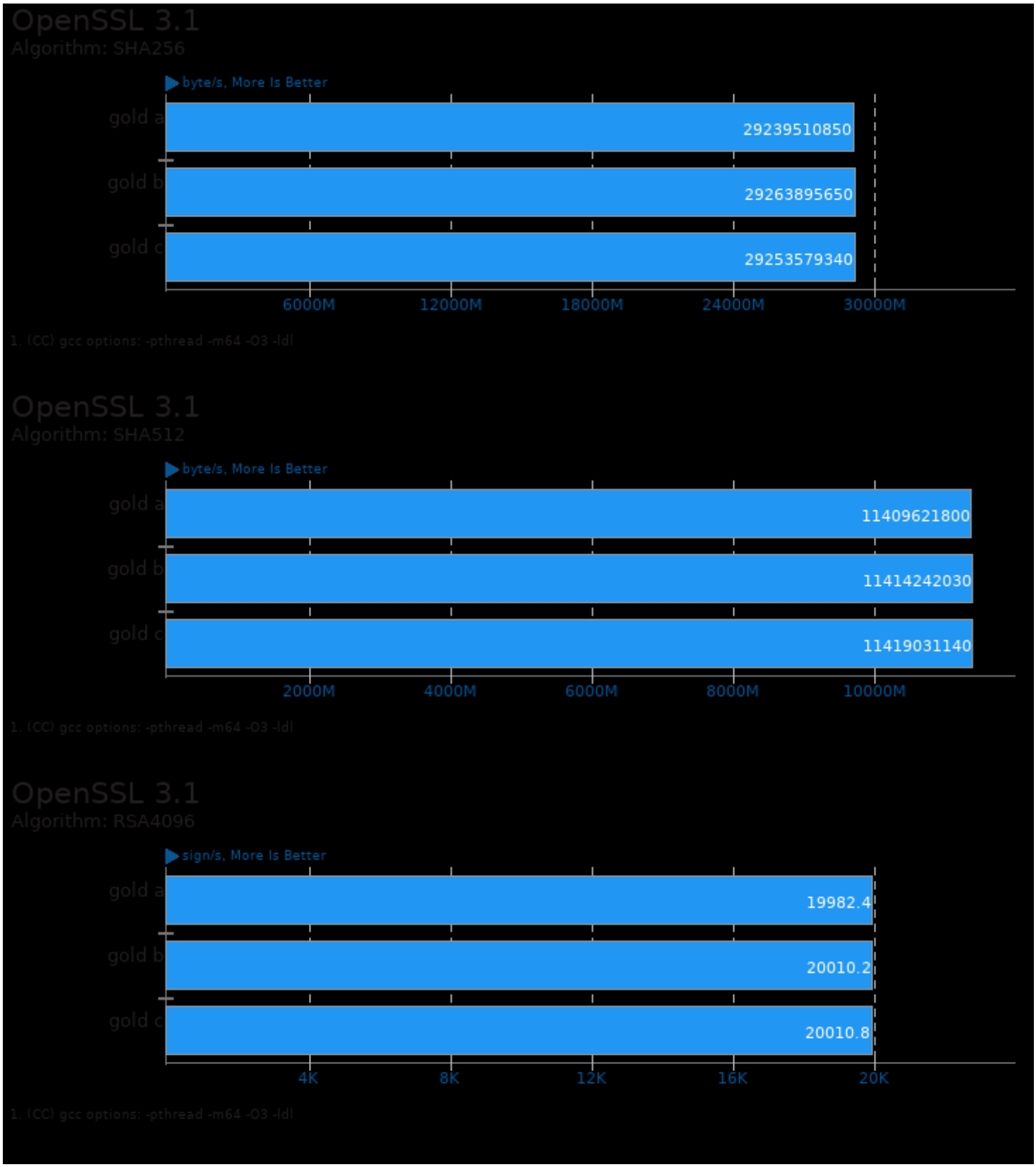

Stress-NG 0.15.04
Test: Forking
Bogo Ops/s, More Is Better
gold a
gold b
gold c
64017.28
63472.86
63433.14
14K
28K
42K
56K
70K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Pthread
Bogo Ops/s, More Is Better
gold a
gold b
gold c
103175.13
103077.49
103155.22
20K
40K
60K
80K
100K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: SENDFILE
Bogo Ops/s, More Is Better
gold a
gold b
gold c
686072.88
686514.96
686515.70
150K
300K
450K
600K
750K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread

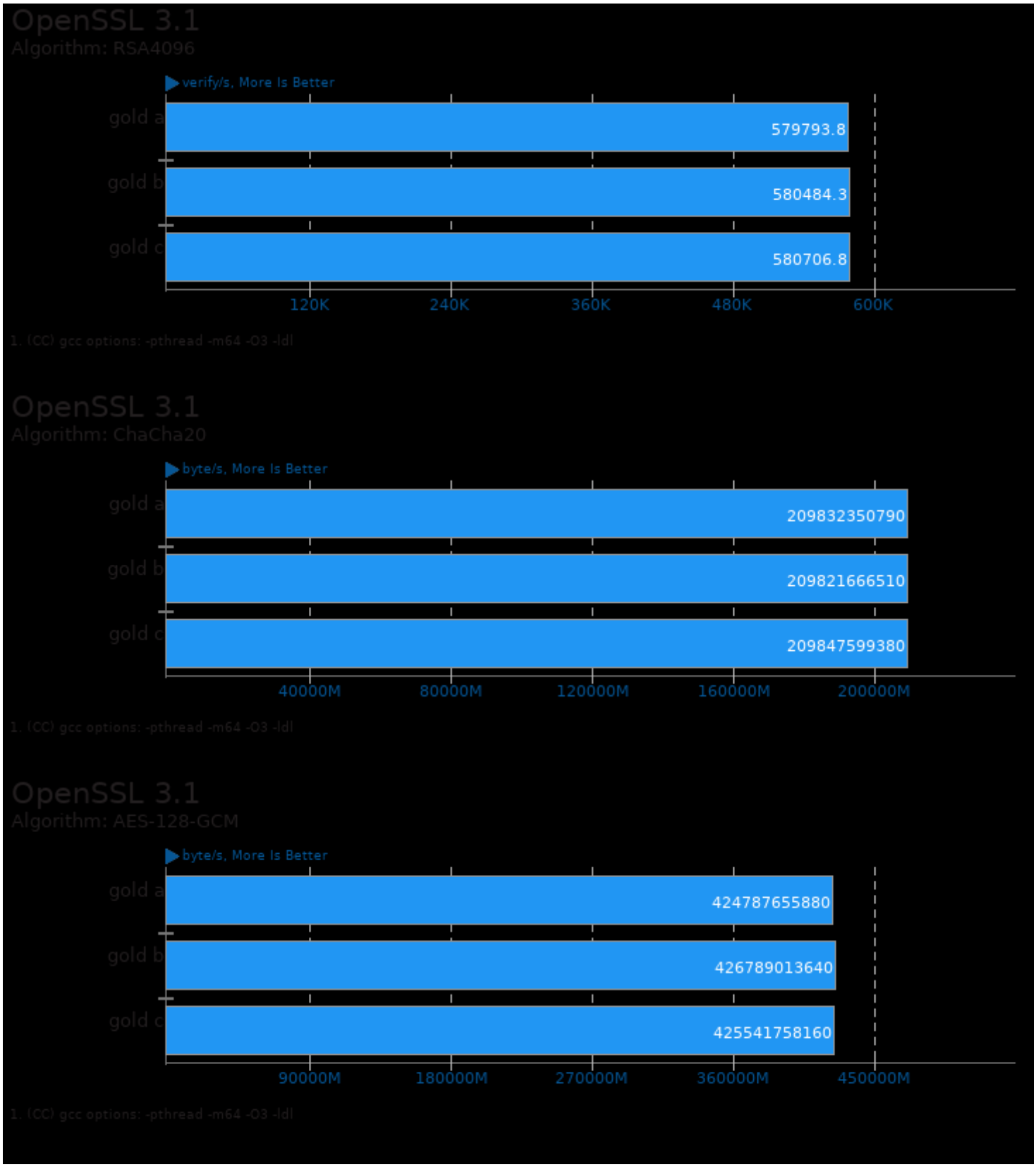

Stress-NG 0.15.04
Test: CPU Cache
Bogo Ops/s, More Is Better
gold a
62.91
gold b
66.24
gold c
78.63
20
40
60
80
100
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: CPU Stress
Bogo Ops/s, More Is Better
gold a
71859.63
gold b
71930.24
gold c
71741.67
15K
30K
45K
60K
75K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Semaphores
Bogo Ops/s, More Is Better
gold a
6280947.17
gold b
6275027.27
gold c
6288644.53
1.3M
2.6M
3.9M
5.2M
6.5M
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread

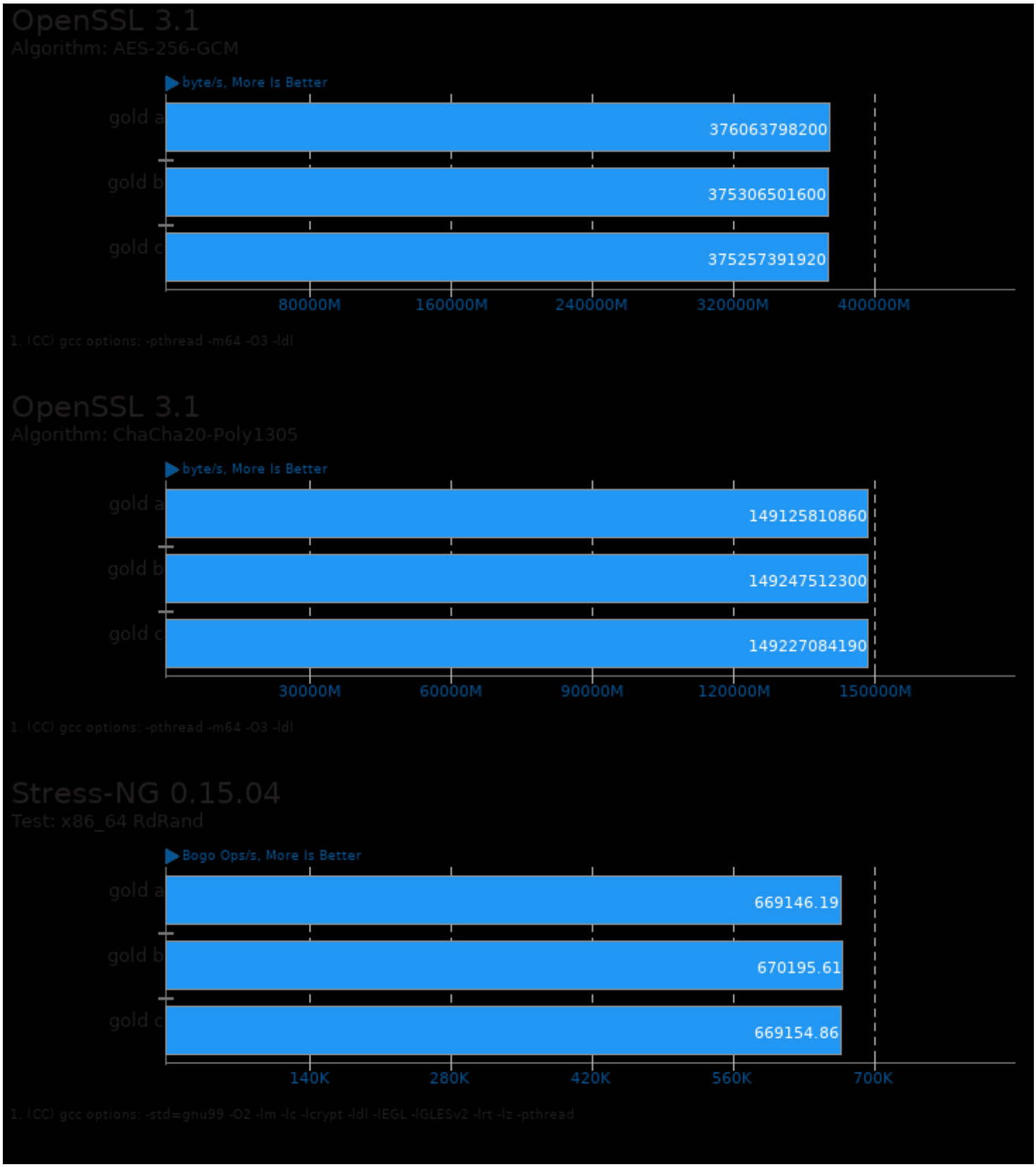

Stress-NG 0.15.04
Test: Matrix Math
Bogo Ops/s, More Is Better
gold a
gold b
gold c
166580.01
166888.11
166805.86
40K
80K
120K
160K
200K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Vector Math
Bogo Ops/s, More Is Better
gold a
gold b
gold c
163210.13
162458.00
163350.19
30K
60K
90K
120K
150K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Function Call
Bogo Ops/s, More Is Better
gold a
gold b
gold c
211070.35
211080.28
211085.36
50K
100K
150K
200K
250K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread

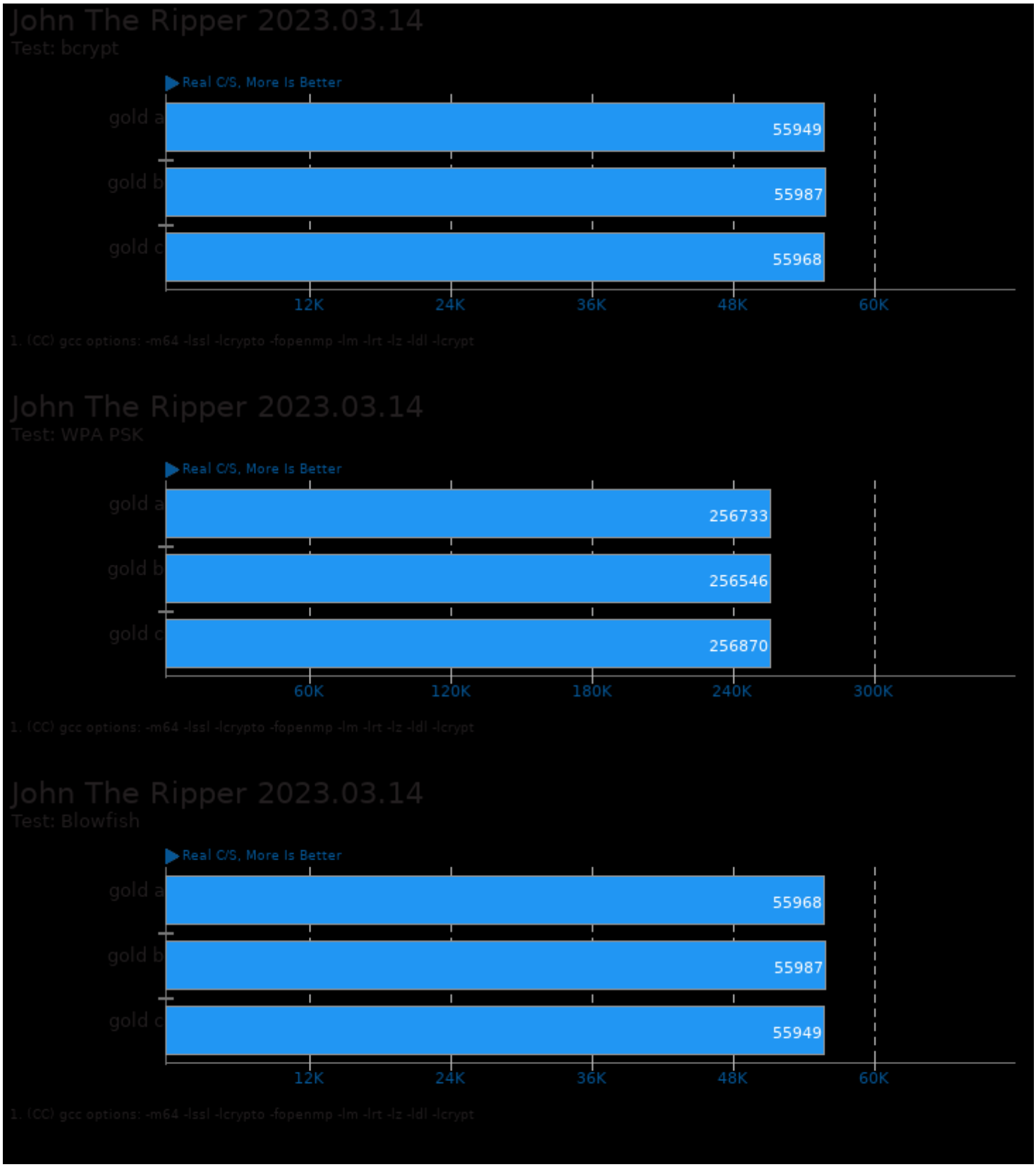

Stress-NG 0.15.04
Test: Memory Copying
Bogo Ops/s, More Is Better
gold a
gold b
gold c
8323.49
8336.43
8330.77
2K
4K
6K
8K
10K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Socket Activity
Bogo Ops/s, More Is Better
gold a
gold b
gold c
9612.93
9671.10
9583.97
2K
4K
6K
8K
10K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Context Switching
Bogo Ops/s, More Is Better
gold a
gold b
gold c
4466473.90
4528970.43
4371348.97
1000K
2000K
3000K
4000K
5000K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread


Stress-NG 0.15.04
Test: Glibc C String Functions
Bogo Ops/s, More Is Better
gold a
gold b
gold c
4936255.93
4961695.12
4964291.98
1.1M
2.2M
3.3M
4.4M
5.5M
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: Glibc Qsort Data Sorting
Bogo Ops/s, More Is Better
gold a
gold b
gold c
384.77
384.67
483.71
100
200
300
400
500
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread
Stress-NG 0.15.04
Test: System V Message Passing
Bogo Ops/s, More Is Better
gold a
gold b
gold c
6348106.26
6377637.99
6358008.79
1.4M
2.8M
4.2M
5.6M
7M
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread


OpenSSL 3.1
Algorithm: SHA256
byte/s, More Is Better
gold a
gold b
gold c
29239510850
29263895650
29253579340
6000M
12000M
18000M
24000M
30000M
1. (CC) gcc options: -pthread -m64 -O3 -ldl
OpenSSL 3.1
Algorithm: SHA512
byte/s, More Is Better
gold a
gold b
gold c
11409621800
11414242030
11419031140
2000M
4000M
6000M
8000M
10000M
1. (CC) gcc options: -pthread -m64 -O3 -ldl
OpenSSL 3.1
Algorithm: RSA4096
sign/s, More Is Better
gold a
gold b
gold c
19982.4
20010.2
20010.8
4K
8K
12K
16K
20K
1. (CC) gcc options: -pthread -m64 -O3 -ldl

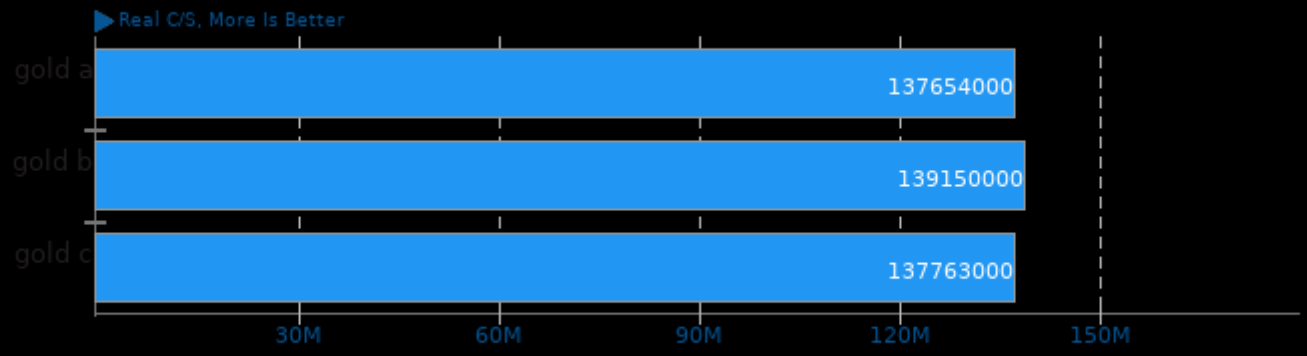

OpenSSL 3.1
Algorithm: RSA4096
verify/s, More Is Better
gold a
gold b
gold c
579793.8
580484.3
580706.8
120K
240K
360K
480K
600K
1. (CC) gcc options: -pthread -m64 -O3 -ldl
OpenSSL 3.1
Algorithm: ChaCha20
byte/s, More Is Better
gold a
gold b
gold c
209832350790
209821666510
209847599380
40000M
80000M
120000M
160000M
200000M
1. (CC) gcc options: -pthread -m64 -O3 -ldl
OpenSSL 3.1
Algorithm: AES-128-GCM
byte/s, More Is Better
gold a
gold b
gold c
424787655880
426789013640
425541758160
90000M
180000M
270000M
360000M
450000M
1. (CC) gcc options: -pthread -m64 -O3 -ldl


OpenSSL 3.1
Algorithm: AES-256-GCM
byte/s, More Is Better
gold a
gold b
gold c
376063798200
375306501600
375257391920
80000M
160000M
240000M
320000M
400000M
1. (CC) gcc options: -pthread -m64 -O3 -ldl
OpenSSL 3.1
Algorithm: ChaCha20-Poly1305
byte/s, More Is Better
gold a
gold b
gold c
149125810860
149247512300
149227084190
30000M
60000M
90000M
120000M
150000M
1. (CC) gcc options: -pthread -m64 -O3 -ldl
Stress-NG 0.15.04
Test: x86_64 RdRand
Bogo Ops/s, More Is Better
gold a
gold b
gold c
669146.19
670195.61
669154.86
140K
280K
420K
560K
700K
1. (CC) gcc options: -std=gnu99 -O2 -lm -lc -lcrypt -ldl -lEGL -lGLESv2 -lrt -lz -pthread


John The Ripper 2023.03.14
Test: bcrypt
Real C/S, More Is Better
gold a
gold b
gold c
55949
55987
55968
12K
24K
36K
48K
60K
1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lm -lrt -lz -ldl -lcrypt
John The Ripper 2023.03.14
Test: WPA PSK
Real C/S, More Is Better
gold a
gold b
gold c
256733
256546
256870
60K
120K
180K
240K
300K
1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lm -lrt -lz -ldl -lcrypt
John The Ripper 2023.03.14
Test: Blowfish
Real C/S, More Is Better
gold a
gold b
gold c
55968
55987
55949
12K
24K
36K
48K
60K
1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lm -lrt -lz -ldl -lcrypt

John The Ripper 2023.03.14

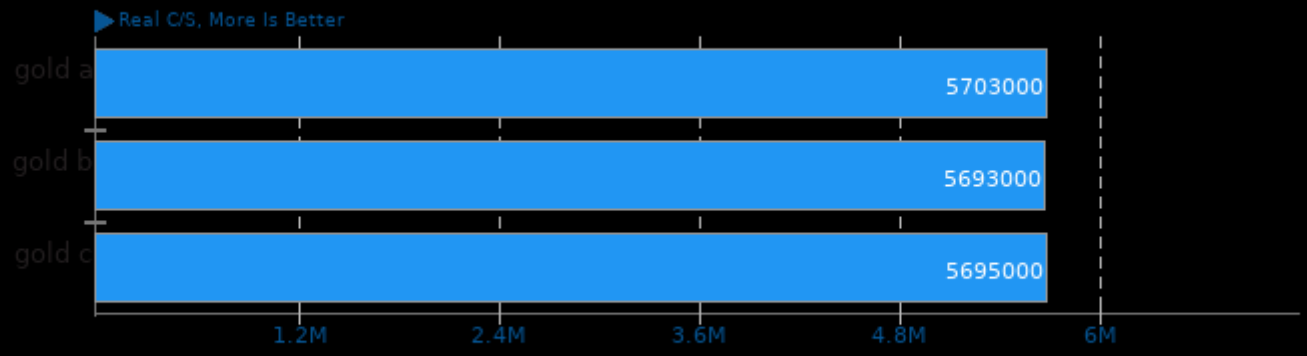
Test: HMAC-SHA512



1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lm -lrt -lz -ldl -lcrypt

John The Ripper 2023.03.14

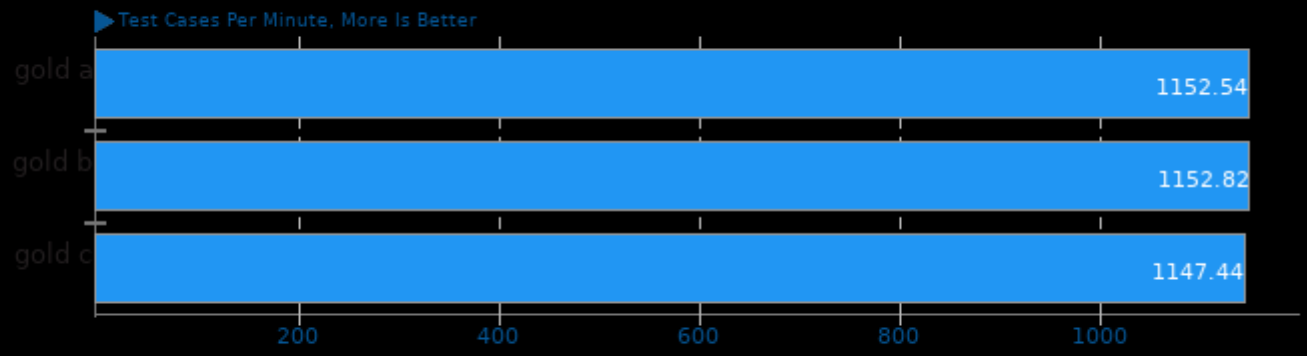
Test: MD5



1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lm -lrt -lz -ldl -lcrypt

Darmstadt Automotive Parallel Heterogeneous Suite 2021.11.02

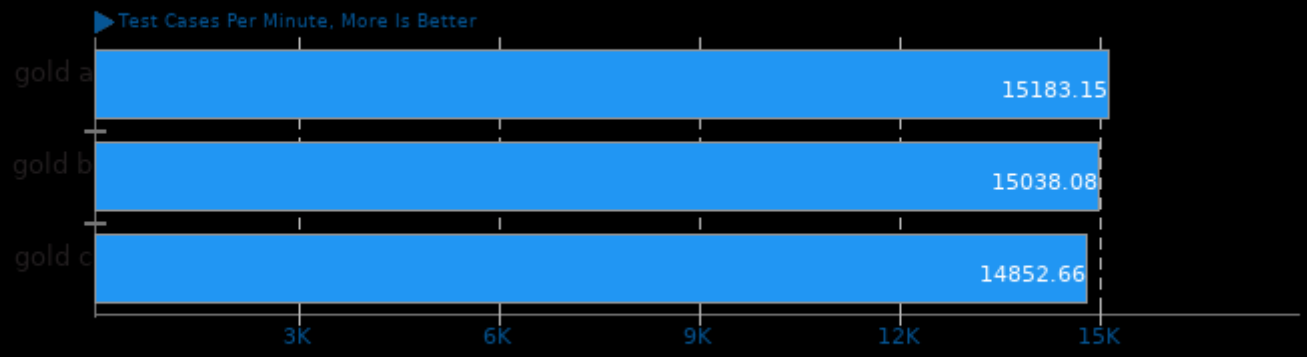
Backend: OpenMP - Kernel: NDT Mapping



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

Darmstadt Automotive Parallel Heterogeneous Suite 2021.11.02

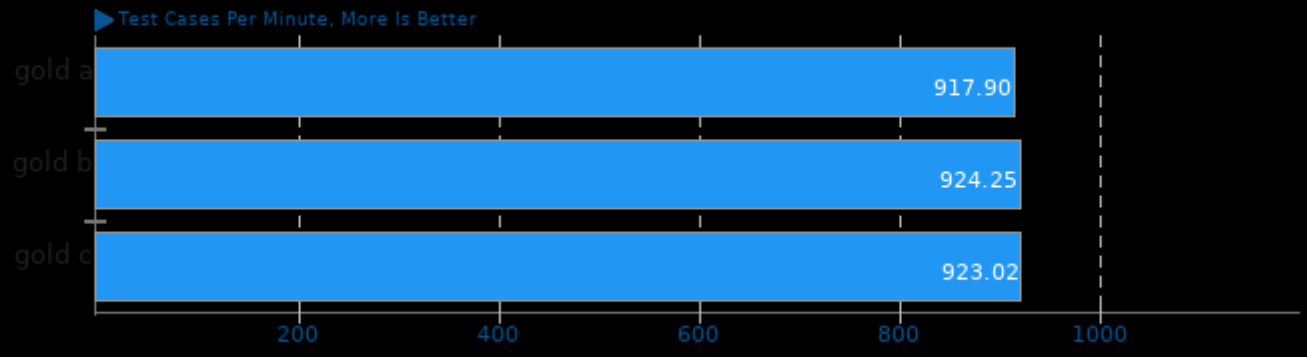
Backend: OpenMP - Kernel: Points2Image



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

Darmstadt Automotive Parallel Heterogeneous Suite 2021.11.02

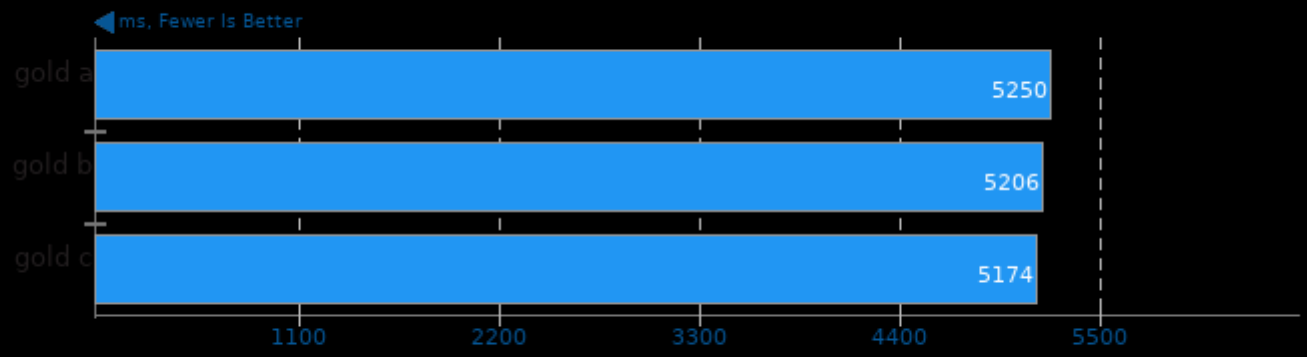
Backend: OpenMP - Kernel: Euclidean Cluster



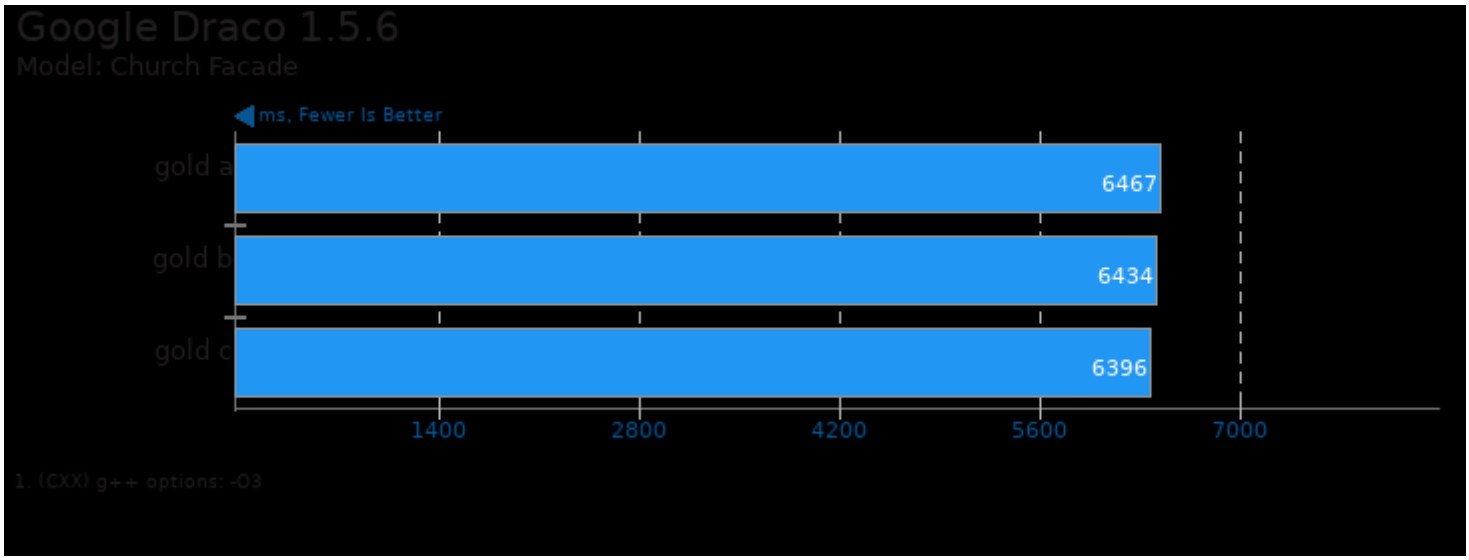
1. (CXX) g++ options: -O3 -std=c++11 -fopenmp

Google Draco 1.5.6

Model: Lion



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

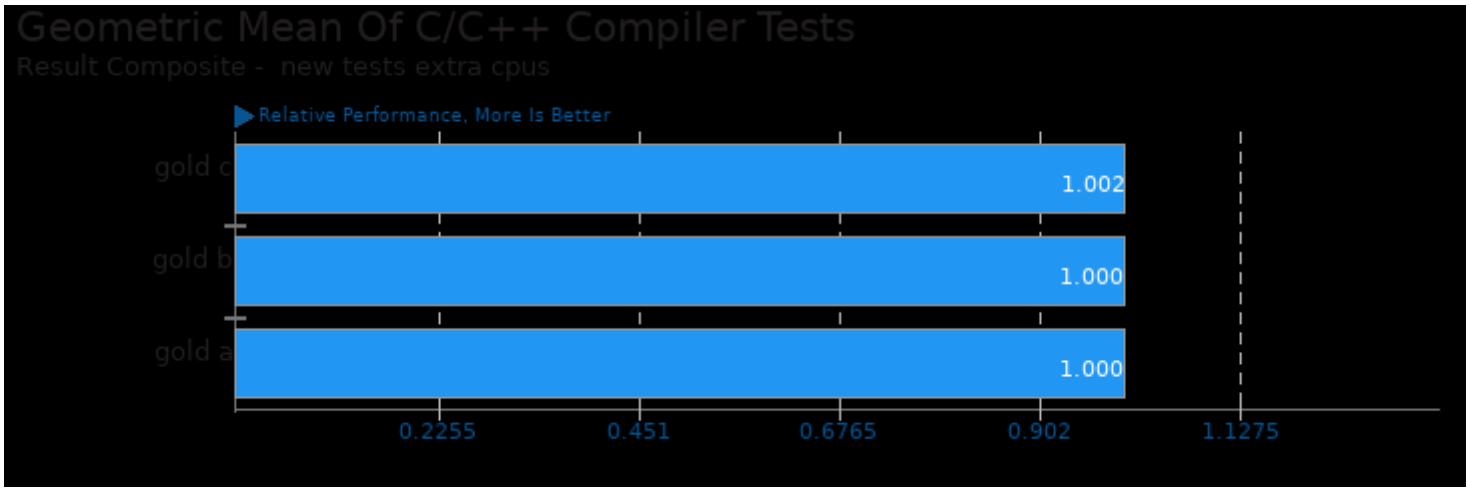

Google Draco 1.5.6
Model: Church Facade
ms, Fewer Is Better
gold a
gold b
gold c
6467
6434
6396
1400
2800
4200
5600
7000
1. (CXX) g++ options: -O3

new tests extra cpus

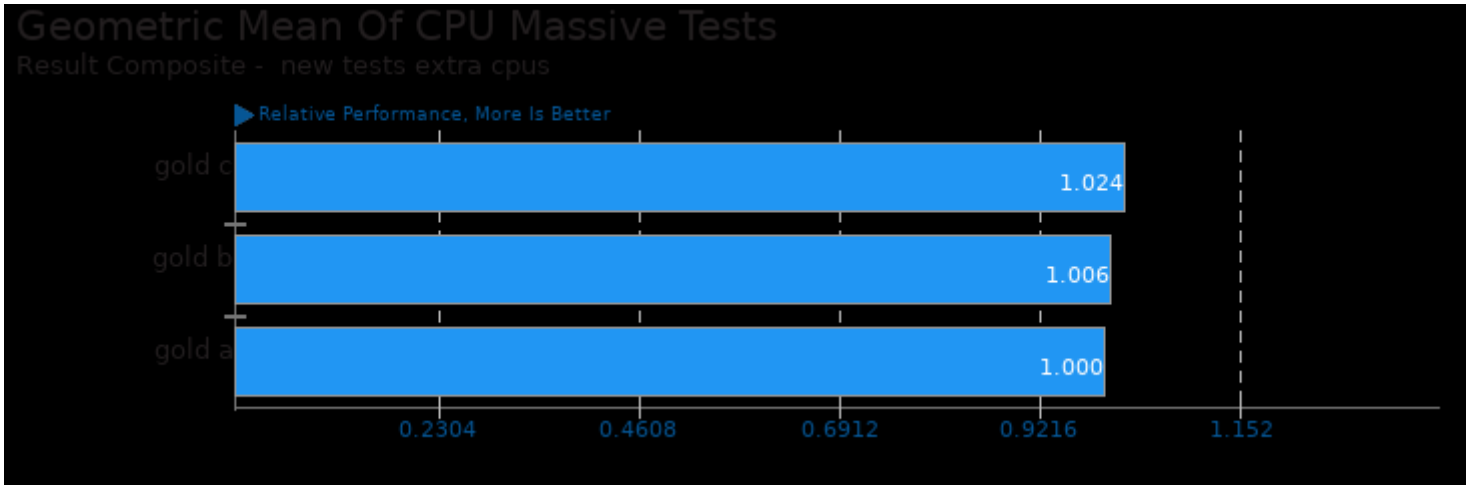
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/build-linux-kernel and pts/build-ffmpeg



Geometric mean based upon tests: pts/compress-7zip, pts/john-the-ripper, pts/openssl, pts/svt-av1 and pts/build-ffmpeg

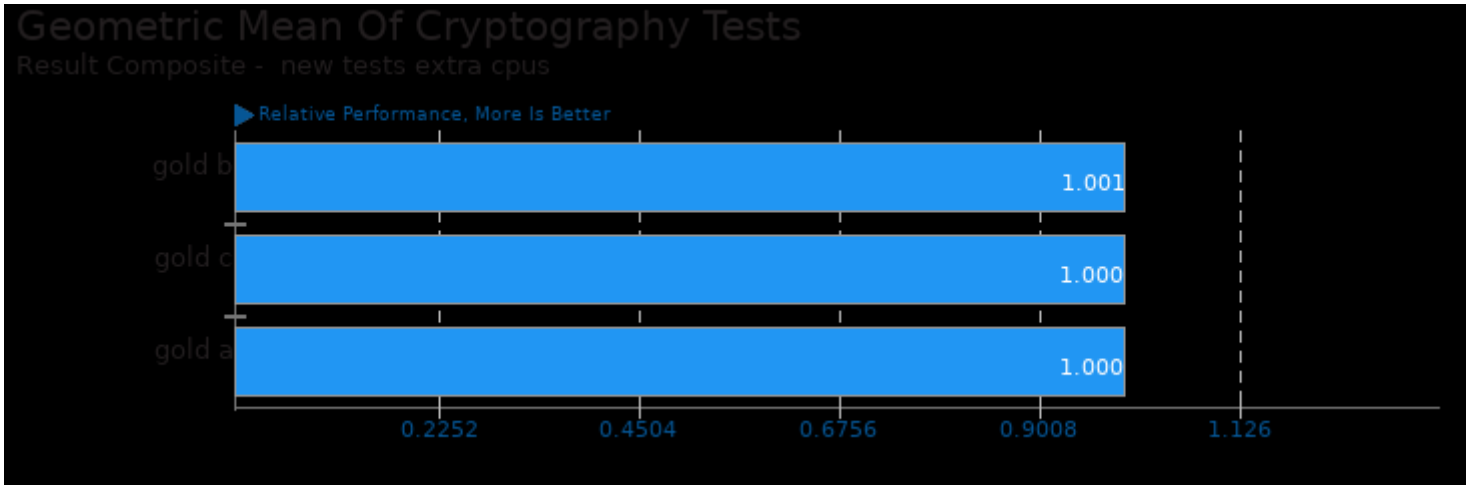


Geometric mean based upon tests: pts/build-linux-kernel, pts/compress-7zip, pts/svt-av1, pts/john-the-ripper, pts/openssl and pts/stress-ng

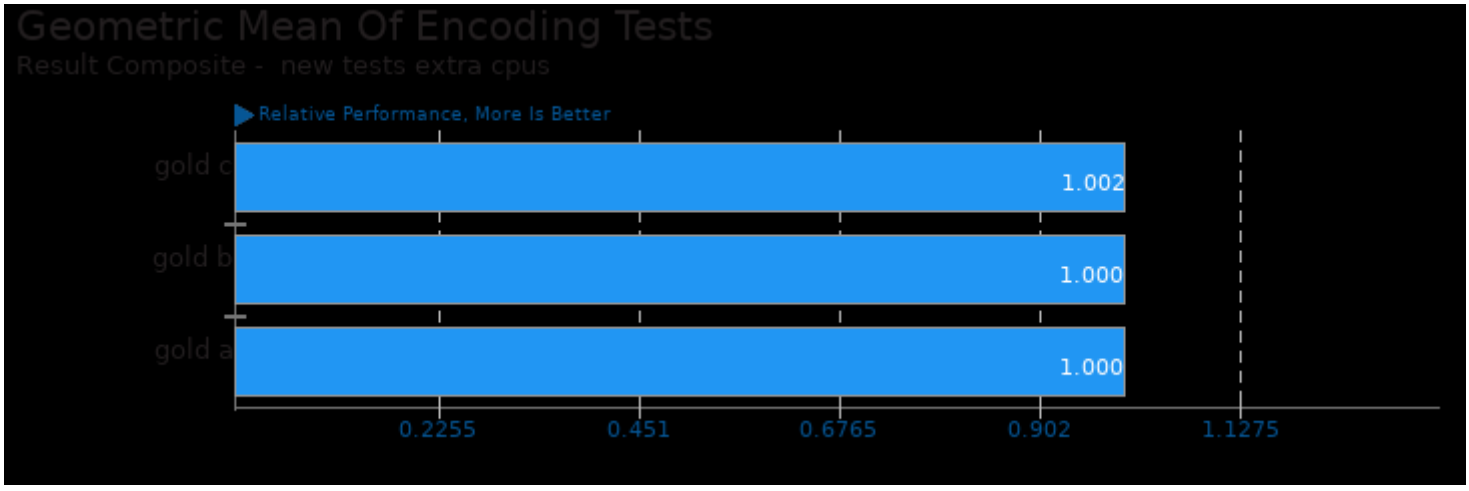
new tests extra cpus



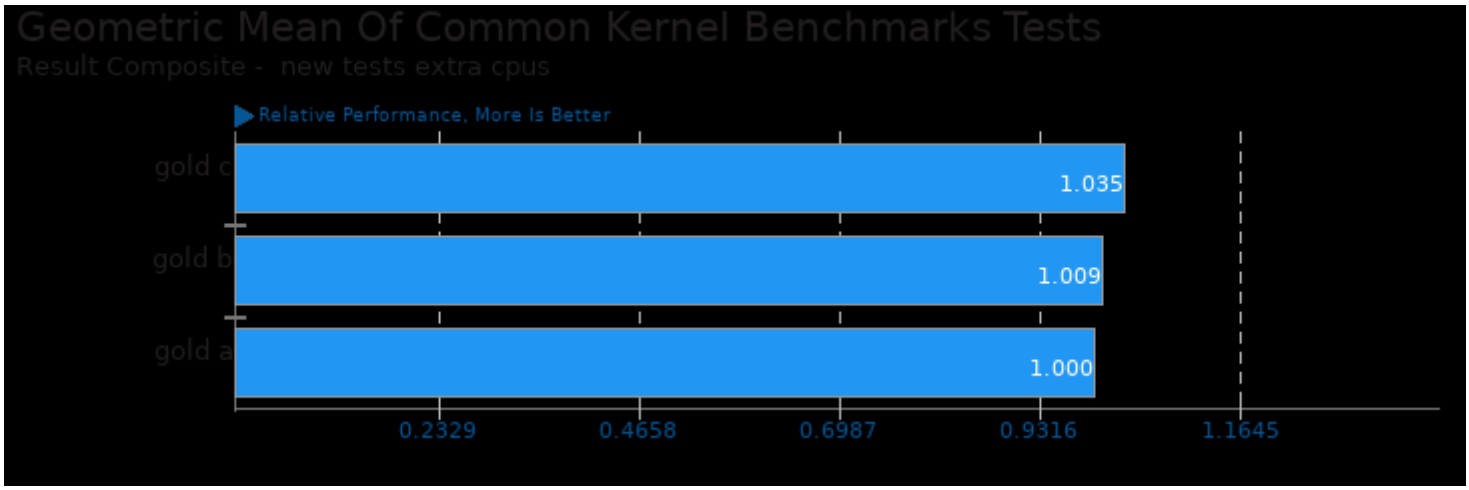
Geometric mean based upon tests: pts/ffmpeg, pts/svt-av1, pts/embree and pts/draco



Geometric mean based upon tests: pts/openssl and pts/john-the-ripper



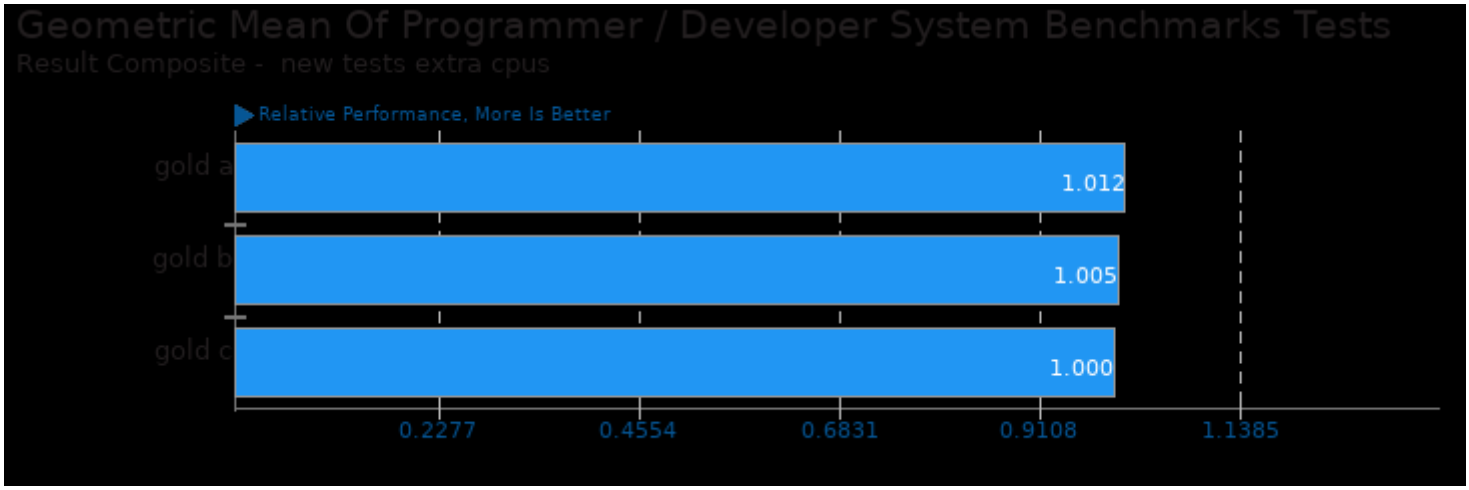
Geometric mean based upon tests: pts/ffmpeg and pts/svt-av1



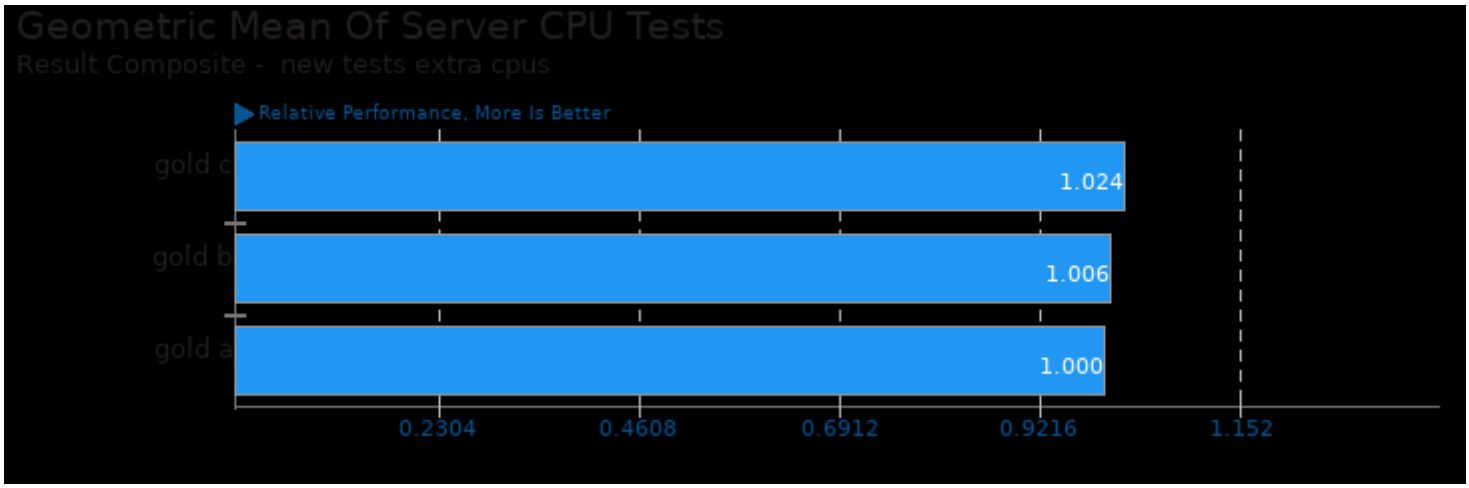
Geometric mean based upon tests: pts/openssl and pts/stress-ng



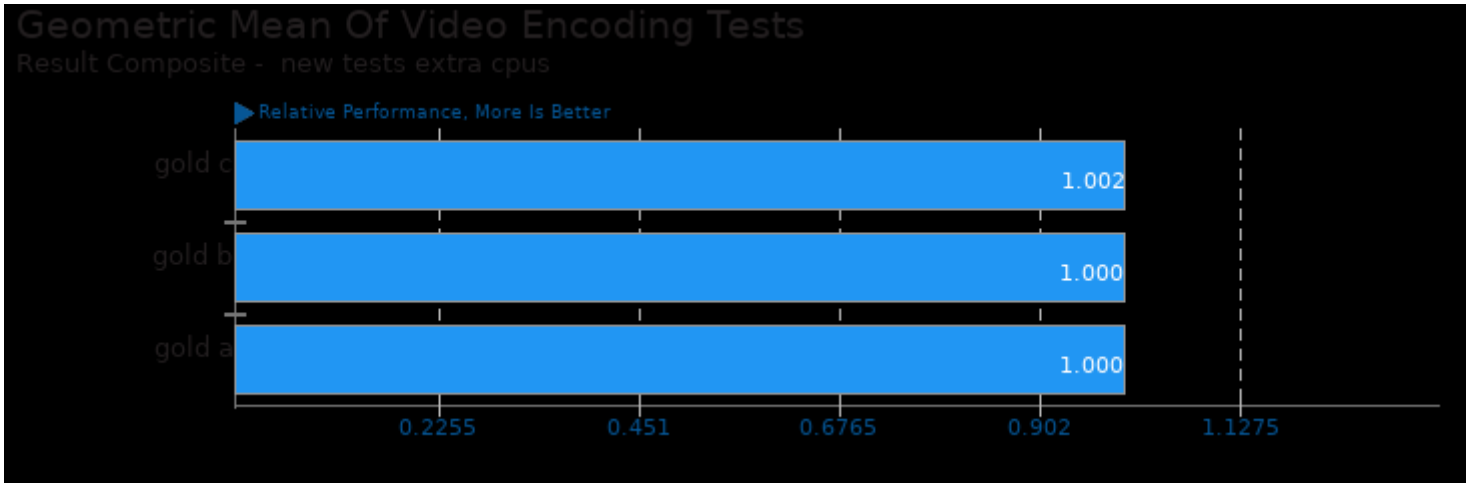
Geometric mean based upon tests: pts/ffmpeg, pts/svt-av1, pts/john-the-ripper, pts/compress-7zip, pts/build-linux-kernel, pts/build-ffmpeg and pts/embree



Geometric mean based upon tests: pts/build-linux-kernel and pts/build-ffmpeg



Geometric mean based upon tests: pts/john-the-ripper, pts/svt-av1, pts/compress-7zip, pts/build-linux-kernel, pts/openssl and pts/stress-ng



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 17:19.