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1280 september

Intel Xeon E3-1280 v5 testing with a MSI Z170A SLI PLUS (MS-7998) v1.0 (2.A0 BIOS) and ASUS AMD Radeon HD 7850 / R7 265 R9 270 1024SP on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 46% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.015x the speed of the slowest (2). 3 was 0.987x the speed of 1 and 2 was 0.998x the speed of 3.

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

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 250 - Mode: Read Only) at 1.375x
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency) at 1.375x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency) at 1.335x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 250 - Mode: Read Only) at 1.334x
Stress-NG (Test: Memory Copying) at 1.195x
Stress-NG (Test: Atomic) at 1.142x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 500 - Mode: Read Write) at 1.131x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency) at 1.13x
Stress-NG (Test: CPU Cache) at 1.1x

PostgreSQL pgbench (Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency) at 1.09x.

Test Systems:

1

2

3

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (4 Cores / 8 Threads), Motherboard: MSI Z170A SLI PLUS (MS-7998) v1.0 (2.A0 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 32GB, Disk: 256GB TOSHIBA RD400, Graphics: ASUS AMD Radeon HD 7850 / R7 265 R9 270 1024SP, Audio: Realtek ALC1150, Monitor: VA2431, Network: Intel I219-V

OS: Ubuntu 20.04, Kernel: 5.13.0-051300-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.9, OpenGL: 4.5 Mesa 20.2.6 (LLVM 11.0.0), 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
Graphics Notes: GLAMOR - BAR1 / Visible vRAM Size: 234 MB
Python Notes: Python 3.8.10
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + 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: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

	1	2	3
yquake2 - Vulkan - 1920 x 1080 (FPS)	**940.5**	**933.5**	**940.5**
Normalized	100%	99.26%	100%
yquake2 - OpenGL 1.x - 1920 x 1080 (FPS)	745.3	**719.8**	**770.7**
Normalized	96.7%	93.4%	100%
yquake2 - OpenGL 3.x - 1920 x 1080 (FPS)	**883.9**	876.6	**859.9**
Normalized	100%	99.17%	97.28%
yquake2 - Software CPU - 1920 x 1080 (FPS)	**97.7**	**97.5**	97.6
Normalized	100%	99.8%	99.9%
GLmark2 - 800 x 600 (Score)	**8790**	**8828**	8807
Normalized	99.57%	100%	99.76%
GLmark2 - 1024 x 768 (Score)	6660	**6658**	**6672**
Normalized	99.82%	99.79%	100%

1280 september

GLmark2 - 1280 x 1024 (Score)	**4548**	**4548**	**4545**
Normalized	100%	100%	99.93%
GLmark2 - 1920 x 1080 (Score)	**3158**	**3097**	3155
Normalized	100%	98.07%	99.91%
LeelaChessZero - BLAS (Nodes/s)	800	**799**	**819**
Normalized	97.68%	97.56%	100%
LeelaChessZero - Eigen (Nodes/s)	**689**	717	**728**
Normalized	94.64%	98.49%	100%
simdjson - Kostya (GB/s)	2.46	2.46	2.46
simdjson - LargeRand (GB/s)	**0.84**	**0.85**	**0.84**
Normalized	98.82%	100%	98.82%
simdjson - PartialTweets (GB/s)	3.62	3.62	3.62
simdjson - DistinctUserID (GB/s)	**4.16**	**4.13**	**4.16**
Normalized	100%	99.28%	100%
JPEG XL libjxl - PNG - 5 (MP/s)	**19.87**	**19.93**	19.91
Normalized	99.7%	100%	99.9%
JPEG XL libjxl - PNG - 7 (MP/s)	**5.96**	**5.92**	5.95
Normalized	100%	99.33%	99.83%
JPEG XL libjxl - PNG - 8 (MP/s)	0.65	0.65	0.65
JPEG XL libjxl - JPEG - 5 (MP/s)	**56.14**	**57.38**	57
Normalized	97.84%	100%	99.34%
JPEG XL libjxl - JPEG - 7 (MP/s)	55.62	**55.1**	**55.65**
Normalized	99.95%	99.01%	100%
JPEG XL libjxl - JPEG - 8 (MP/s)	22.96	**22.9**	**23.15**
Normalized	99.18%	98.92%	100%
JPEG XL Decoding libjxl - 1 (MP/s)	**45.02**	**46.69**	46.32
Normalized	96.42%	100%	99.21%
JPEG XL Decoding libjxl - All (MP/s)	**136.87**	138.66	**141.54**
Normalized	96.7%	97.97%	100%
dav1d - Chimera 1080p (FPS)	**317.66**	**326.91**	324.79
Normalized	97.17%	100%	99.35%
dav1d - Summer Nature 4K (FPS)	**88.09**	88.49	**88.5**
Normalized	99.54%	99.99%	100%
dav1d - S.N.1 (FPS)	**294.22**	301.48	**301.49**
Normalized	97.59%	100%	100%
dav1d - C.1.1.b (FPS)	**247.89**	**249.44**	248.13
Normalized	99.38%	100%	99.47%
OpenVKL - vklBenchmark ISPC (Items / Sec)	32	32	32
OpenVKL - v.S (Items / Sec)	13	13	13
Timed GCC Compilation - Time To Compile (sec)	**1852**	**1859**	1853
Normalized	100%	99.58%	99.91%
Timed Linux Kernel Compilation - Time To Compile (sec)	**226.451**	226.166	**226.028**
Normalized	99.81%	99.94%	100%
Timed LLVM Compilation - Ninja (sec)	1754	**1758**	**1754**
Normalized	99.98%	99.78%	100%
Timed LLVM Compilation - Unix Makefiles	**1783**	**1778**	1778
Normalized	99.72%	100%	99.95%
FLAC Audio Encoding - WAV To FLAC (sec)	**17.85**	**18.529**	17.912
Normalized	100%	96.34%	99.65%
Tachyon - Total Time (sec)	**219.6512**	**218.5573**	218.7678

1280 september

Normalized	99.5%	100%	99.9%
Google SynthMark - VoiceMark_100 (Voices)	609.82	609.772	613.926
Normalized	99.33%	99.32%	100%
Cpuminer-Opt - Magi (kH/s)	97.88	98.05	98.07
Normalized	99.81%	99.98%	100%
Cpuminer-Opt - x25x (kH/s)	125.94	125.48	121.47
Normalized	100%	99.63%	96.45%
Cpuminer-Opt - Deepcoin (kH/s)	3793	3810	3804
Normalized	99.55%	100%	99.83%
Cpuminer-Opt - Ringcoin (kH/s)	838.13	866.78	857.73
Normalized	96.69%	100%	98.96%
Cpuminer-Opt - Blake-2 S (kH/s)	134120	132950	134680
Normalized	99.58%	98.72%	100%
Cpuminer-Opt - Garlicoin (kH/s)	974.56	956.6	987.08
Normalized	98.73%	96.91%	100%
Cpuminer-Opt - Skeincoin (kH/s)	16660	16640	16880
Normalized	98.7%	98.58%	100%
Cpuminer-Opt - Myriad-Groestl (kH/s)	5372	5406	5442
Normalized	98.73%	99.35%	100%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	10730	10550	10690
Normalized	100%	98.32%	99.63%
Cpuminer-Opt - Q.S.2.P (kH/s)	18870	18900	18840
Normalized	99.84%	100%	99.68%
Cpuminer-Opt - T.S.2.O (kH/s)	26690	28420	26440
Normalized	93.91%	100%	93.03%
OpenSSL - SHA256 (byte/s)	1289113570	1289738880	1288169600
Normalized	99.95%	100%	99.88%
OpenSSL - RSA4096 (sign/s)	1134	1131	1135
Normalized	99.96%	99.68%	100%
OpenSSL - RSA4096 (verify/s)	74699	74594	74511
Normalized	100%	99.86%	99.75%
KeyDB (Ops/sec)	392183	391221	392541
Normalized	99.91%	99.66%	100%
MariaDB - 64 (Queries/sec)	213	204	204
Normalized	100%	95.77%	95.77%
PostgreSQL pgbench - 1 - 1 - Read Only	21660	21058	21224
Normalized	100%	97.22%	97.99%
PostgreSQL pgbench - 1 - 1 - Read Only - Average Latency (ms)	0.046	0.047	0.047
Normalized	100%	97.87%	97.87%
PostgreSQL pgbench - 1 - 1 - Read Write	202	199	196
Normalized	100%	98.51%	97.03%
PostgreSQL pgbench - 1 - 1 - Read Write - Average Latency (ms)	4.957	5.031	5.096
Normalized	100%	98.53%	97.27%
PostgreSQL pgbench - 1 - 50 - Read Only (TPS)	104905	104973	105331
Normalized	99.6%	99.66%	100%
PostgreSQL pgbench - 1 - 50 - Read Only - Average Latency (ms)	0.477	0.476	0.475
Normalized	99.58%	99.79%	100%

1280 september

PostgreSQL pgbench - 1 - 100 - Read Only (TPS)	**105846**	**97126**	97390
Normalized	100%	91.76%	92.01%
PostgreSQL pgbench - 1 - 100 - Read Only - Average Latency (ms)	**0.945**	**1.03**	1.027
Normalized	100%	91.75%	92.02%
PostgreSQL pgbench - 1 - 250 - Read Only (TPS)	**114719**	**85968**	112154
Normalized	100%	74.94%	97.76%
PostgreSQL pgbench - 1 - 250 - Read Only - Average Latency (ms)	**2.179**	**2.908**	2.229
Normalized	100%	74.93%	97.76%
PostgreSQL pgbench - 1 - 50 - Read Write (TPS)	**283**	**268**	269
Normalized	100%	94.7%	95.05%
PostgreSQL pgbench - 1 - 50 - Read Write - Average Latency (ms)	**176.57**	**186.278**	186.14
Normalized	100%	94.79%	94.86%
PostgreSQL pgbench - 1 - 500 - Read Only (TPS)	**80382**	**85853**	81089
Normalized	93.63%	100%	94.45%
PostgreSQL pgbench - 1 - 500 - Read Only - Average Latency (ms)	**6.22**	**5.824**	6.166
Normalized	93.63%	100%	94.45%
PostgreSQL pgbench - 100 - 1 - Read Only (TPS)	20303	**20327**	**20251**
Normalized	99.88%	100%	99.63%
PostgreSQL pgbench - 100 - 1 - Read Only - Average Latency (ms)	0.049	0.049	0.049
PostgreSQL pgbench - 1 - 100 - Read Write (TPS)	**267**	**258**	**258**
Normalized	100%	96.63%	96.63%
PostgreSQL pgbench - 1 - 100 - Read Write - Average Latency (ms)	**373.876**	**387.547**	387.274
Normalized	100%	96.47%	96.54%
PostgreSQL pgbench - 1 - 250 - Read Write (TPS)	**222**	**216**	218
Normalized	100%	97.3%	98.2%
PostgreSQL pgbench - 1 - 250 - Read Write - Average Latency (ms)	**1128**	**1157**	1149
Normalized	100%	97.46%	98.16%
PostgreSQL pgbench - 1 - 500 - Read Write (TPS)	**216**	207	**191**
Normalized	100%	95.83%	88.43%
PostgreSQL pgbench - 1 - 500 - Read Write - Average Latency (ms)	**2312**	2419	**2612**
Normalized	100%	95.59%	88.53%
PostgreSQL pgbench - 100 - 1 - Read Write (TPS)	**192**	**182**	186
Normalized	100%	94.79%	96.88%

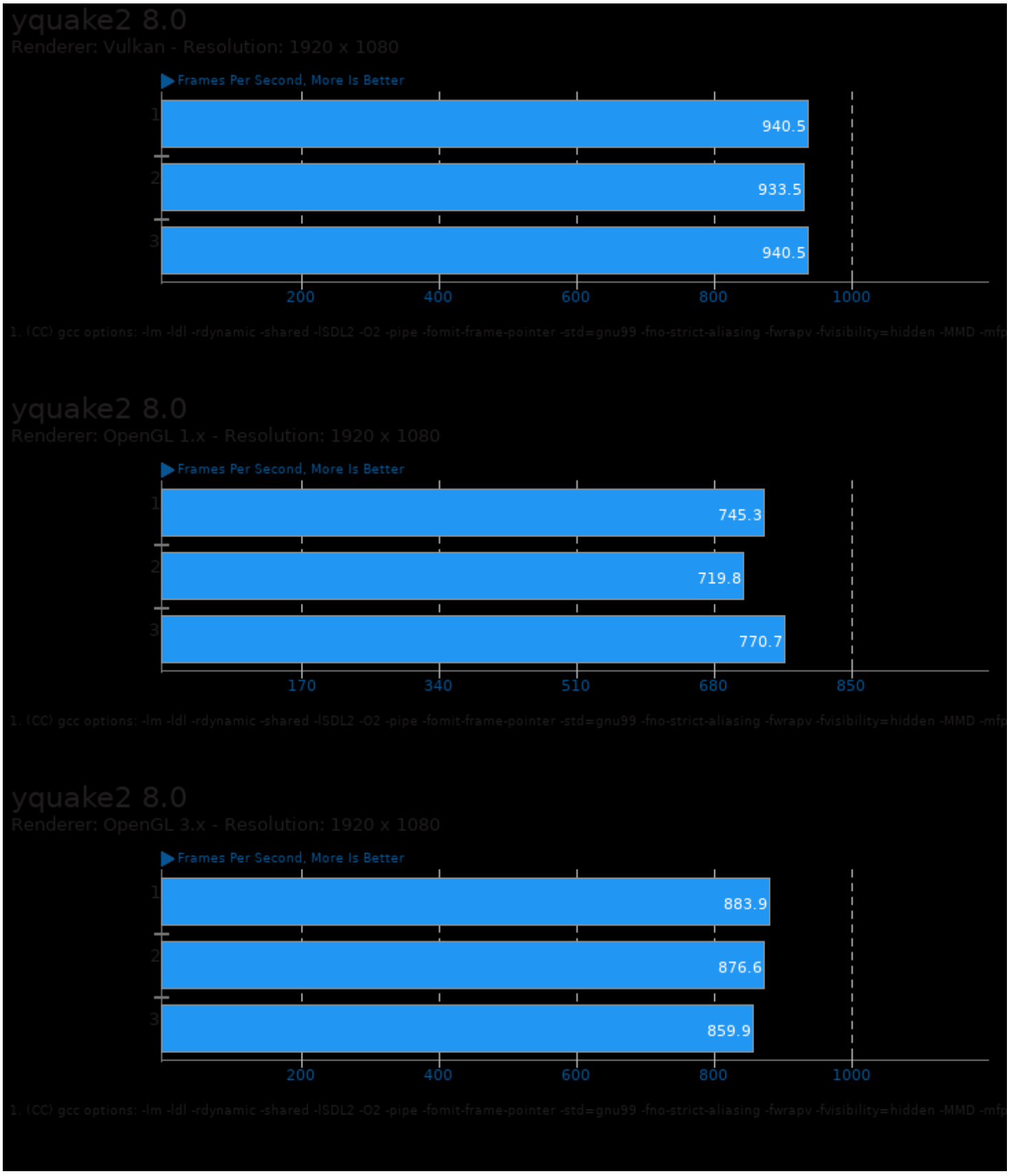
PostgreSQL pgbench - 100 - 1 - Read Write - Average Latency (ms)	5.203	5.494	5.363
Normalized	100%	94.7%	97.02%
PostgreSQL pgbench - 100 - 50 - Read Only (TPS)	104848	103732	103960
Normalized	100%	98.94%	99.15%
PostgreSQL pgbench - 100 - 50 - Read Only - Average Latency (ms)	0.477	0.482	0.481
Normalized	100%	98.96%	99.17%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)	93793	93903	93919
Normalized	99.87%	99.98%	100%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency (ms)	1.066	1.065	1.065
Normalized	99.91%	100%	100%
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)	110441	87563	80314
Normalized	100%	79.28%	72.72%
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency (ms)	2.264	2.855	3.113
Normalized	100%	79.3%	72.73%
PostgreSQL pgbench - 100 - 50 - Read Write (TPS)	3442	3314	3293
Normalized	100%	96.28%	95.67%
PostgreSQL pgbench - 100 - 50 - Read Write - Average Latency (ms)	14.526	15.089	15.184
Normalized	100%	96.27%	95.67%
PostgreSQL pgbench - 100 - 500 - Read Only (TPS)	75447	76208	74575
Normalized	99%	100%	97.86%
PostgreSQL pgbench - 100 - 500 - Read Only - Average Latency (ms)	6.627	6.561	6.705
Normalized	99%	100%	97.85%
PostgreSQL pgbench - 100 - 100 - Read Write (TPS)	4368	4171	4178
Normalized	100%	95.49%	95.65%
PostgreSQL pgbench - 100 - 100 - Read Write - Average Latency (ms)	22.893	23.973	23.933
Normalized	100%	95.49%	95.65%
PostgreSQL pgbench - 100 - 250 - Read Write (TPS)	4726	4523	4607
Normalized	100%	95.7%	97.48%
PostgreSQL pgbench - 100 - 250 - Read Write - Average Latency (ms)	52.896	55.278	54.268
Normalized	100%	95.69%	97.47%
PostgreSQL pgbench - 100 - 500 - Read Write (TPS)	4480	4411	4359
Normalized	100%	98.46%	97.3%
PostgreSQL pgbench - 100 - 500 - Read Write - Average Latency (ms)	111.595	113.351	114.698
Normalized	100%	98.45%	97.29%

1280 september

Stress-NG - MMAP (Bogo Ops/s)	**37.72**	37.73	**37.8**
Normalized	99.79%	99.81%	100%
Stress-NG - NUMA (Bogo Ops/s)	**87.71**	87.99	**88.09**
Normalized	99.57%	99.89%	100%
Stress-NG - MEMFD (Bogo Ops/s)	**256.86**	**252.02**	253.43
Normalized	100%	98.12%	98.66%
Stress-NG - Atomic (Bogo Ops/s)	**172213**	185702	**196749**
Normalized	87.53%	94.39%	100%
Stress-NG - Crypto (Bogo Ops/s)	**804.62**	**802.03**	803.31
Normalized	100%	99.68%	99.84%
Stress-NG - Malloc (Bogo Ops/s)	23764141	**23809158**	**23695430**
Normalized	99.81%	100%	99.52%
Stress-NG - RdRand (Bogo Ops/s)	**5564**	**5708**	5650
Normalized	97.48%	100%	98.99%
Stress-NG - Forking (Bogo Ops/s)	24420	**24569**	**24258**
Normalized	99.39%	100%	98.74%
Stress-NG - SENDFILE (Bogo Ops/s)	55969	**55856**	**56017**
Normalized	99.91%	99.71%	100%
Stress-NG - CPU Cache (Bogo Ops/s)	**161.5**	**146.83**	150.53
Normalized	100%	90.92%	93.21%
Stress-NG - CPU Stress (Bogo Ops/s)	7671	**7766**	**7642**
Normalized	98.78%	100%	98.4%
Stress-NG - Semaphores (Bogo Ops/s)	**546967**	**530845**	542767
Normalized	100%	97.05%	99.23%
Stress-NG - Matrix Math (Bogo Ops/s)	17823	**17974**	**17592**
Normalized	99.16%	100%	97.87%
Stress-NG - Vector Math (Bogo Ops/s)	**13106**	13107	**13110**
Normalized	99.97%	99.97%	100%
Stress-NG - Memory Copying (Bogo Ops/s)	**1083**	**906.77**	1022
Normalized	100%	83.69%	94.31%
Stress-NG - Socket Activity (Bogo Ops/s)	3874	**3884**	**3839**
Normalized	99.73%	100%	98.84%
Stress-NG - Context Switching (Bogo Ops/s)	**1306723**	**1316431**	1312953
Normalized	99.26%	100%	99.74%
Stress-NG - G.C.S.F (Bogo Ops/s)	238069	**239990**	**230993**
Normalized	99.2%	100%	96.25%
Stress-NG - G.Q.D.S (Bogo Ops/s)	**60.07**	60	**59.87**
Normalized	100%	99.88%	99.67%
Stress-NG - S.V.M.P (Bogo Ops/s)	**3015441**	**3025125**	3020209
Normalized	99.68%	100%	99.84%
ECP-CANDLE - P1B2 (sec)	**46.724**	**45.295**	45.492
Normalized	96.94%	100%	99.57%
ECP-CANDLE - P3B1 (sec)	**1251**	1258	**1258**
Normalized	100%	99.43%	99.41%
ECP-CANDLE - P3B2 (sec)	**617.177**	621.597	**622.12**
Normalized	100%	99.29%	99.21%
nginx - 1 (Reqs/sec)	**35053**	**35561**	35057
Normalized	98.57%	100%	98.58%
nginx - 20 (Reqs/sec)	**210048**	210467	**210648**
Normalized	99.72%	99.91%	100%
nginx - 100 (Reqs/sec)	206010	**206736**	**205537**
Normalized	99.65%	100%	99.42%
nginx - 200 (Reqs/sec)	206209	**206269**	**205578**

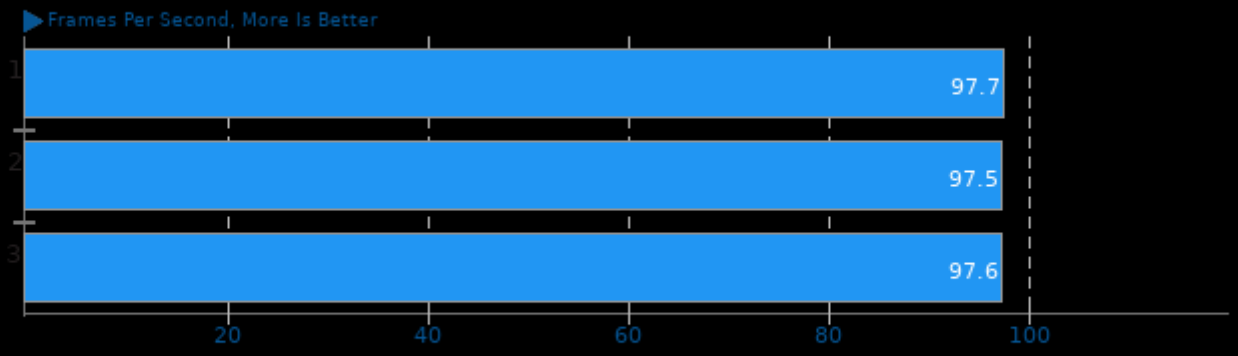
1280 september

Normalized	99.97%	100%	99.66%
nginx - 500 (Reqs/sec)	199292	**199530**	**198770**
Normalized	99.88%	100%	99.62%
nginx - 1000 (Reqs/sec)	190260	**190874**	**190001**
Normalized	99.68%	100%	99.54%
Apache HTTP Server - 1 (Reqs/sec)	11863	**11980**	**11603**
Normalized	99.03%	100%	96.85%
Apache HTTP Server - 20 (Reqs/sec)	39588	**39596**	**39273**
Normalized	99.98%	100%	99.18%
Apache HTTP Server - 100 (Reqs/sec)	40250	**40423**	**39754**
Normalized	99.57%	100%	98.35%
Apache HTTP Server - 200 (Reqs/sec)	**41670**	41389	**41274**
Normalized	100%	99.32%	99.05%
Apache HTTP Server - 500 (Reqs/sec)	36344	**36831**	**36241**
Normalized	98.68%	100%	98.4%
Apache HTTP Server - 1000 (Reqs/sec)	35601	**35871**	**35538**
Normalized	99.25%	100%	99.07%


yquake2 8.0
Renderer: Vulkan - Resolution: 1920 x 1080
Frames Per Second, More Is Better
1
2
3
940.5
933.5
940.5
200
400
600
800
1000
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 8.0
Renderer: OpenGL 1.x - Resolution: 1920 x 1080
Frames Per Second, More Is Better
1
2
3
745.3
719.8
770.7
170
340
510
680
850
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 8.0
Renderer: OpenGL 3.x - Resolution: 1920 x 1080
Frames Per Second, More Is Better
1
2
3
883.9
876.6
859.9
200
400
600
800
1000
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 8.0

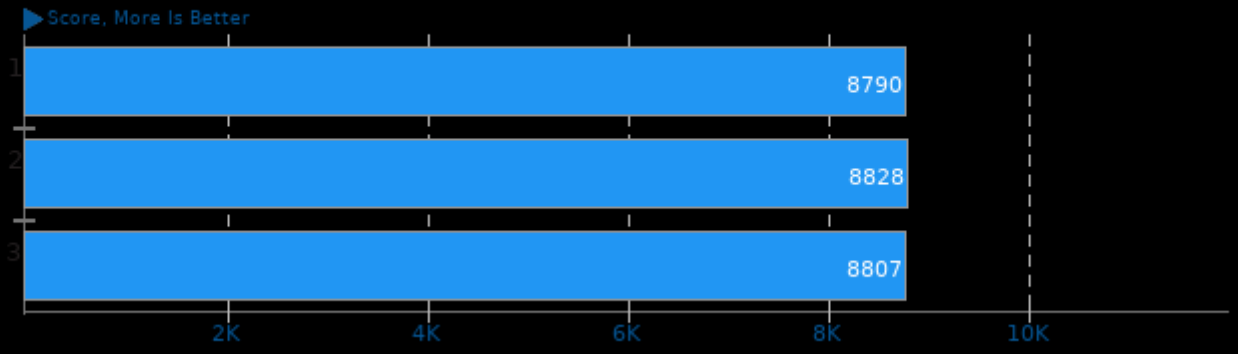
Renderer: Software CPU - Resolution: 1920 x 1080



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

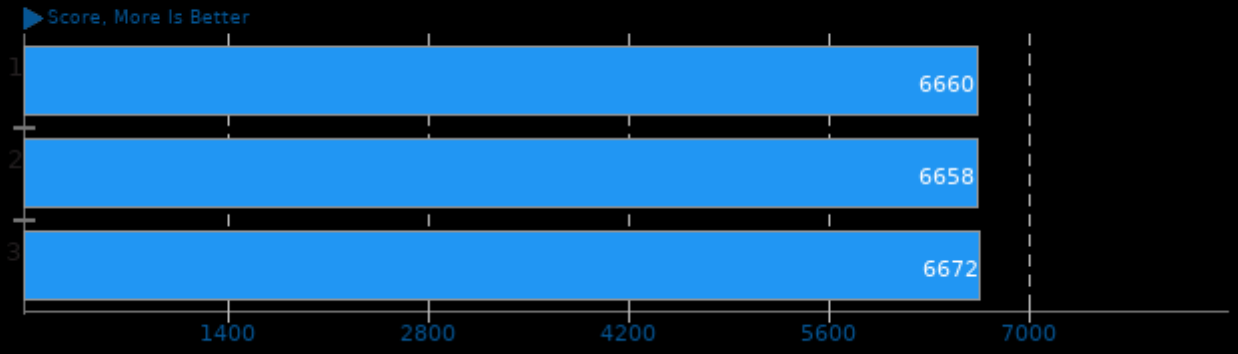
GLmark2 2021.08.30

Resolution: 800 x 600

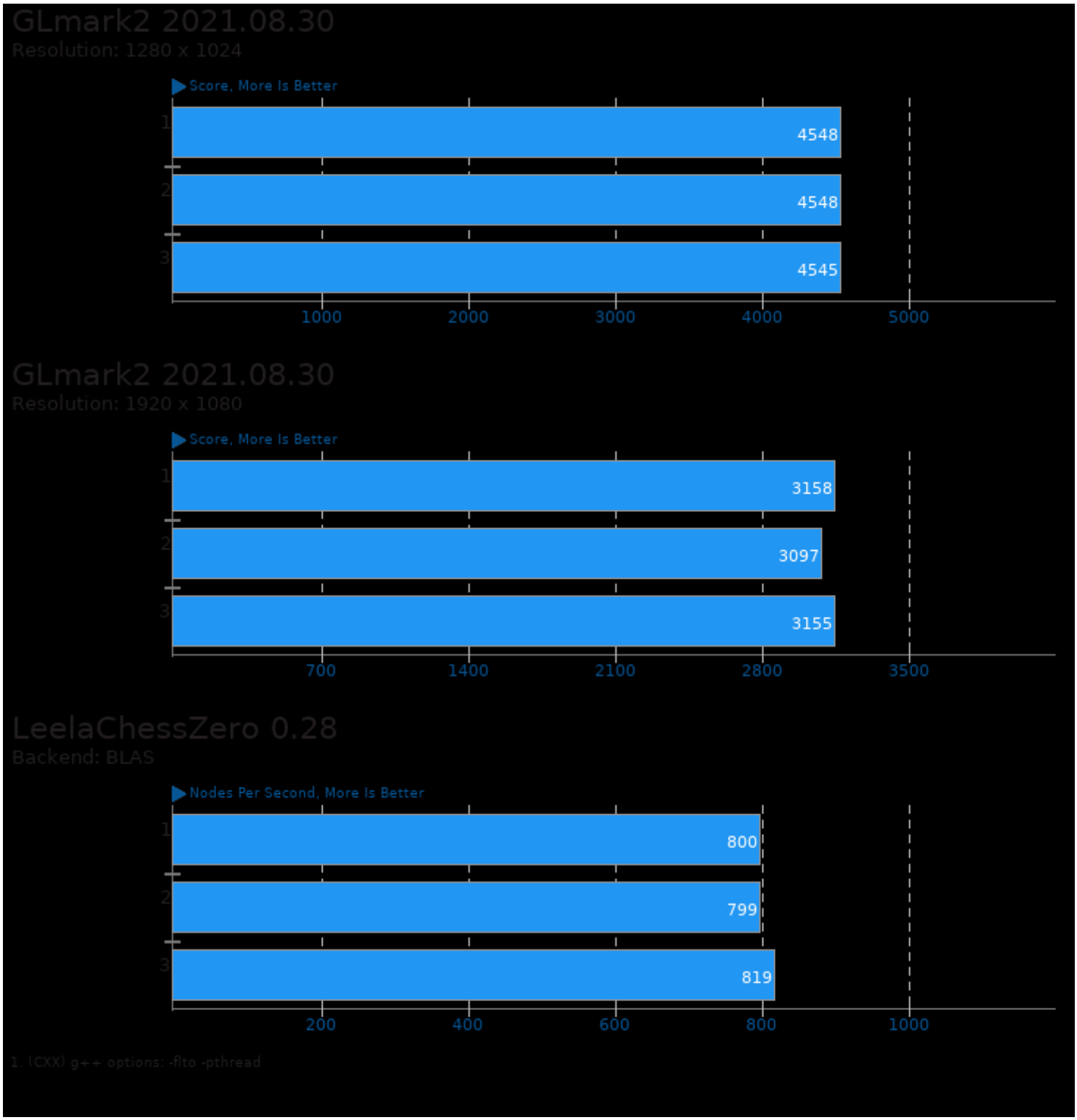


GLmark2 2021.08.30

Resolution: 1024 x 768

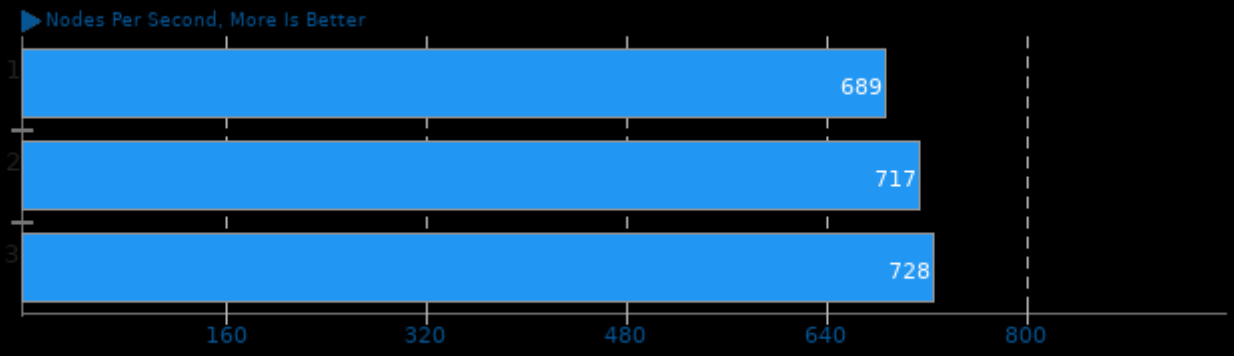


1280 september



LeelaChessZero 0.28

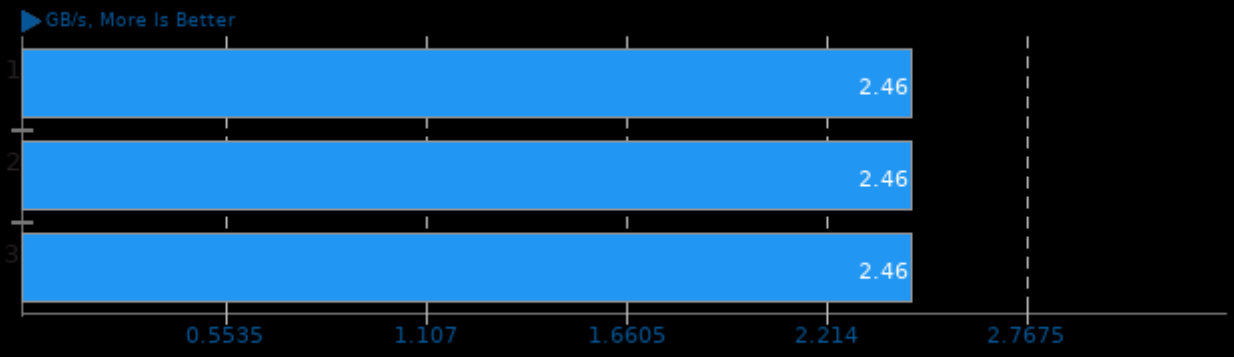
Backend: Eigen



1. (CXX) g++ options: -flto -pthread

simdjson 1.0

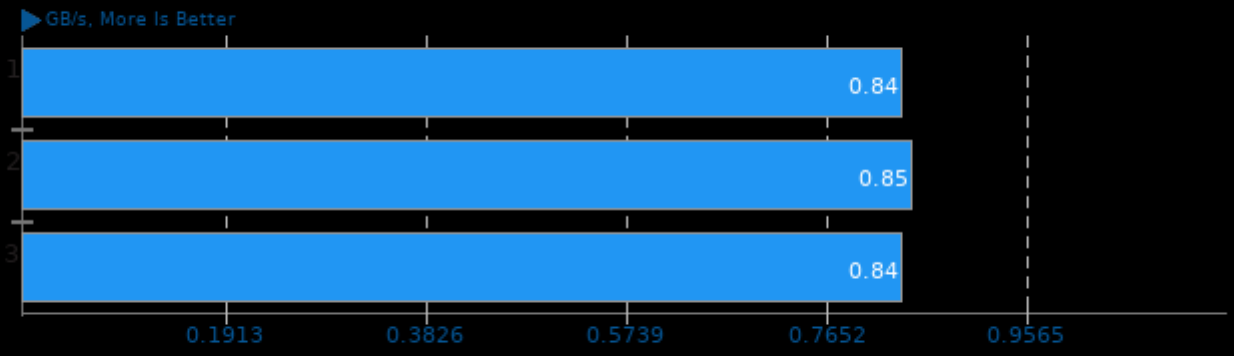
Throughput Test: Kostya



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

simdjson 1.0

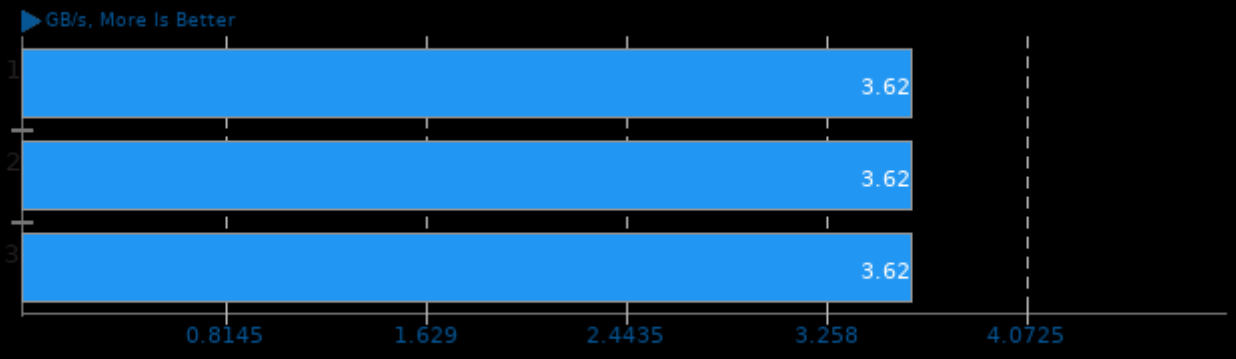
Throughput Test: LargeRandom



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

simdjson 1.0

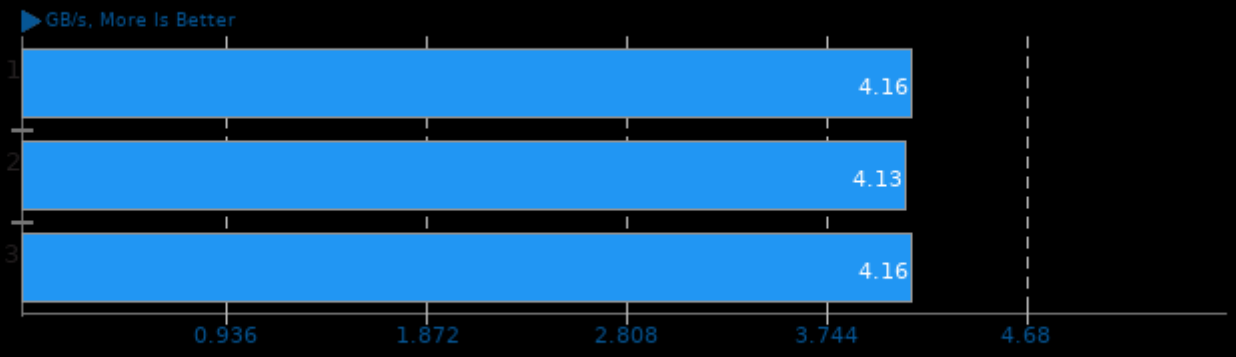
Throughput Test: PartialTweets



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

simdjson 1.0

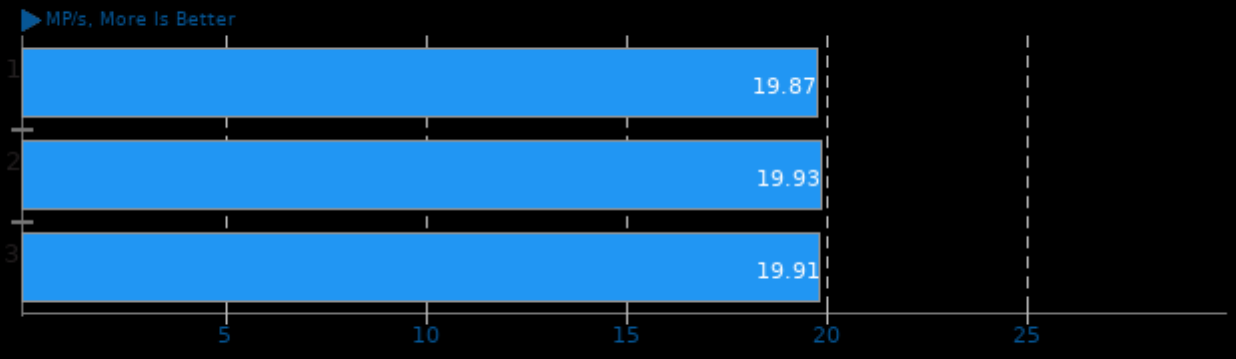
Throughput Test: DistinctUserID



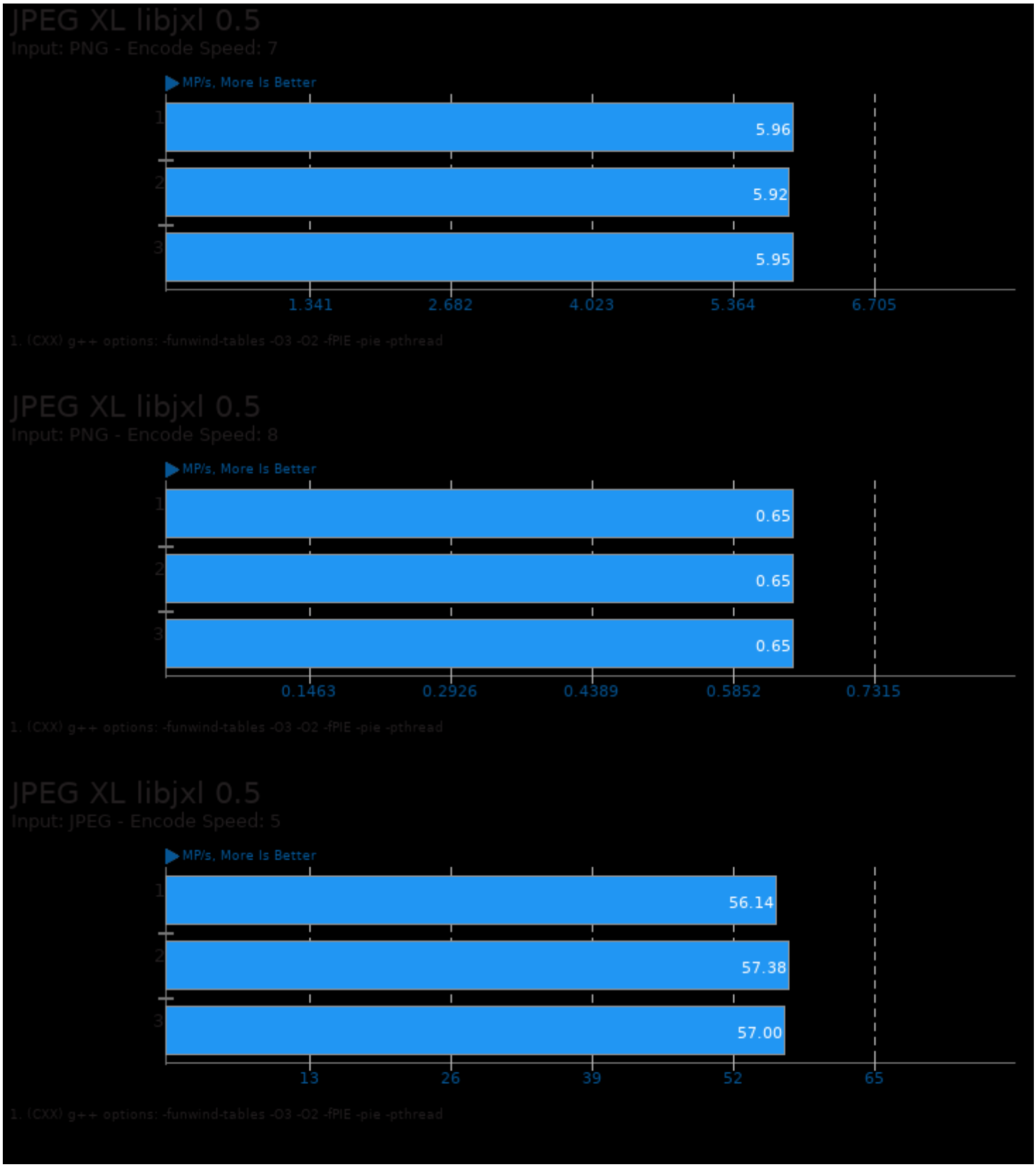
1. (CXX) g++ options: -O3 -pthread

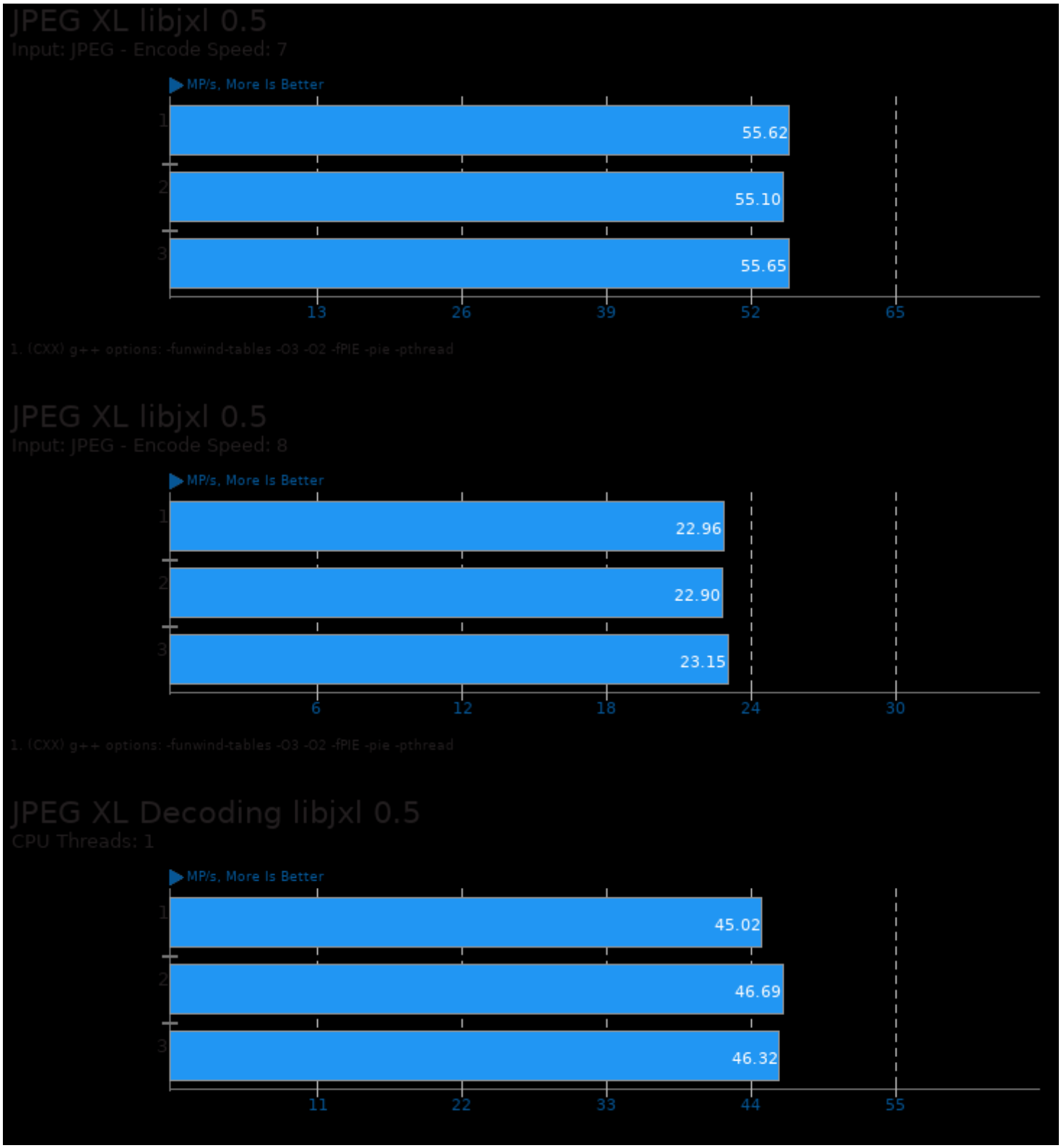
JPEG XL libjxl 0.5

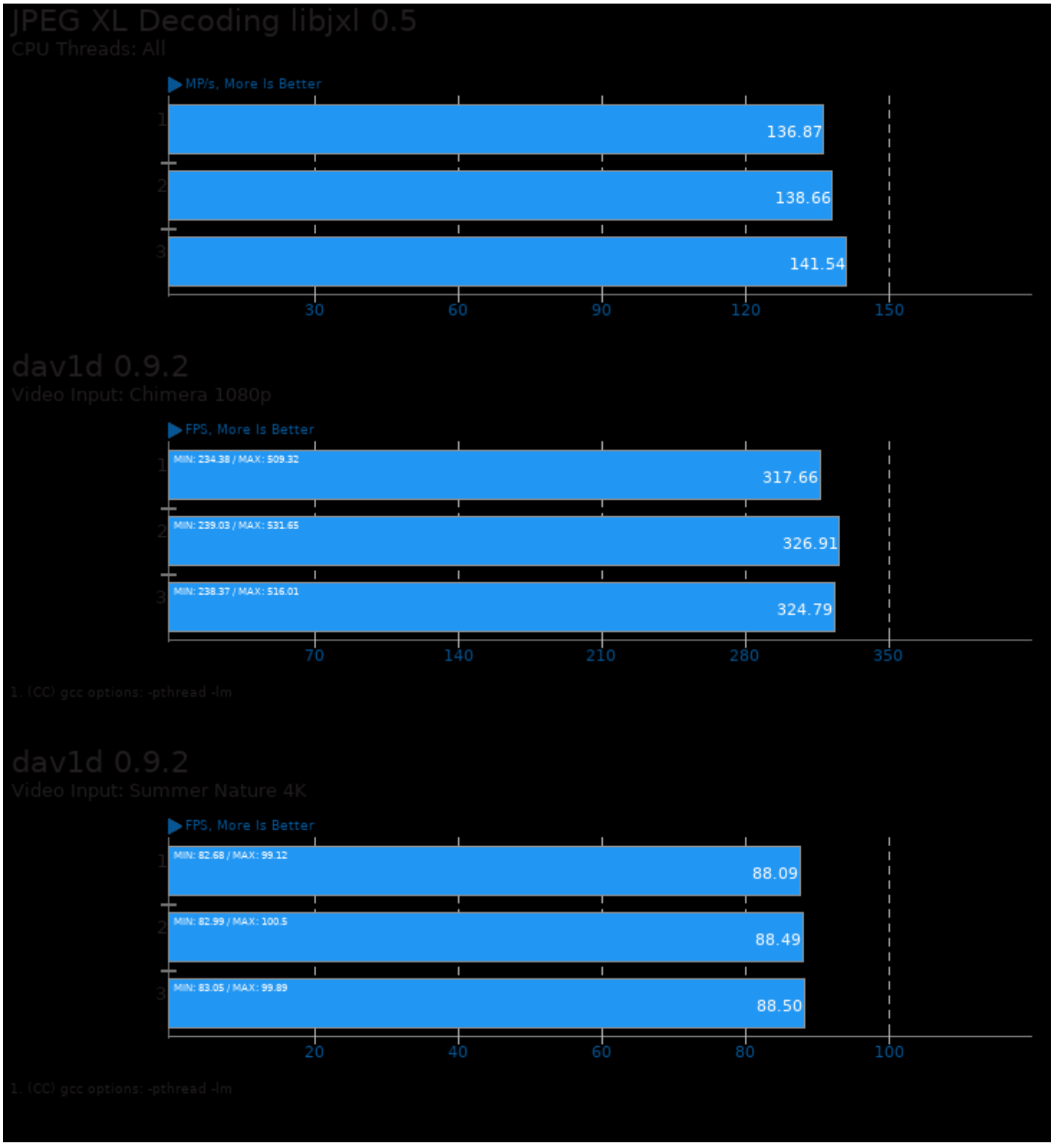
Input: PNG - Encode Speed: 5

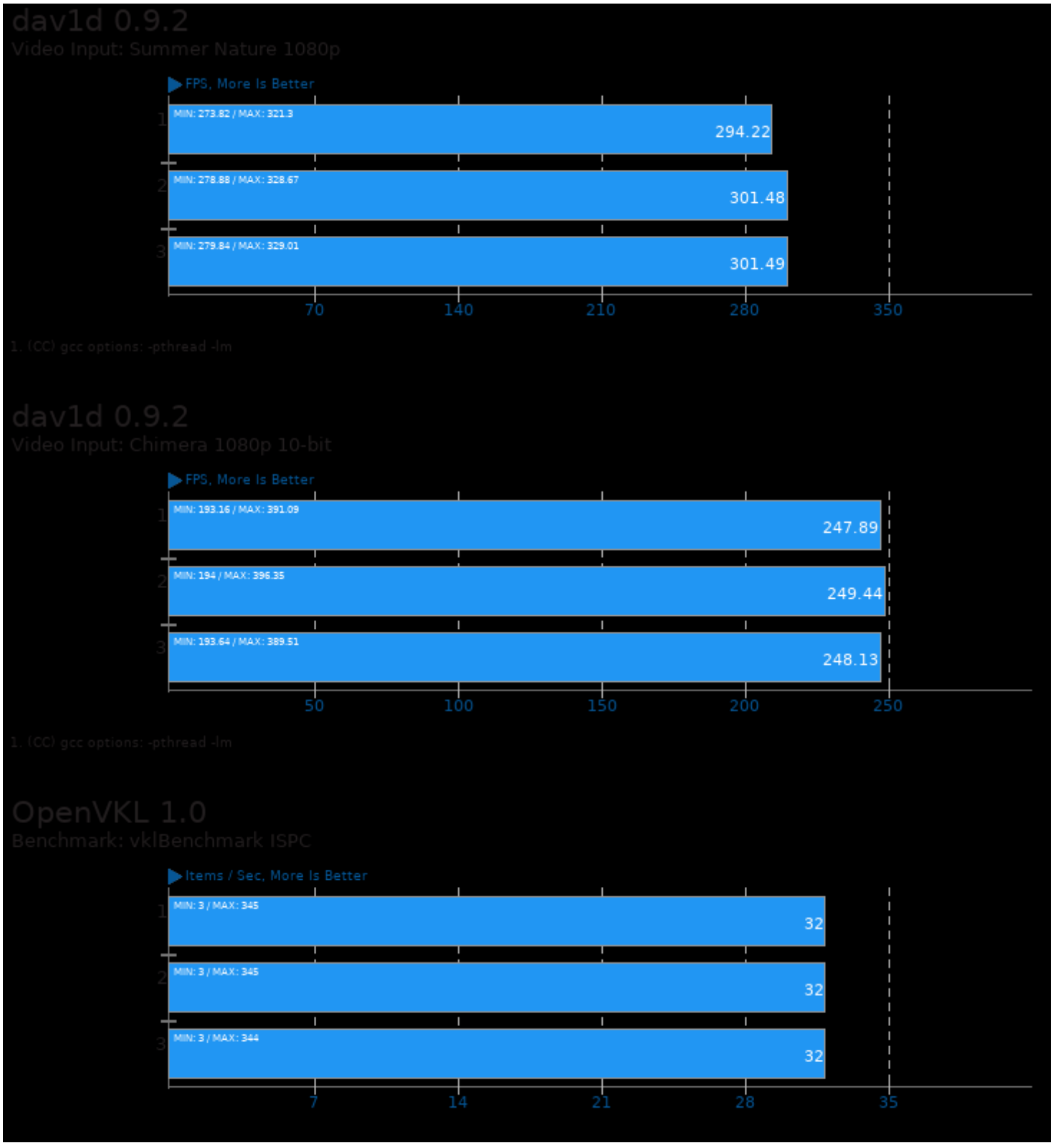


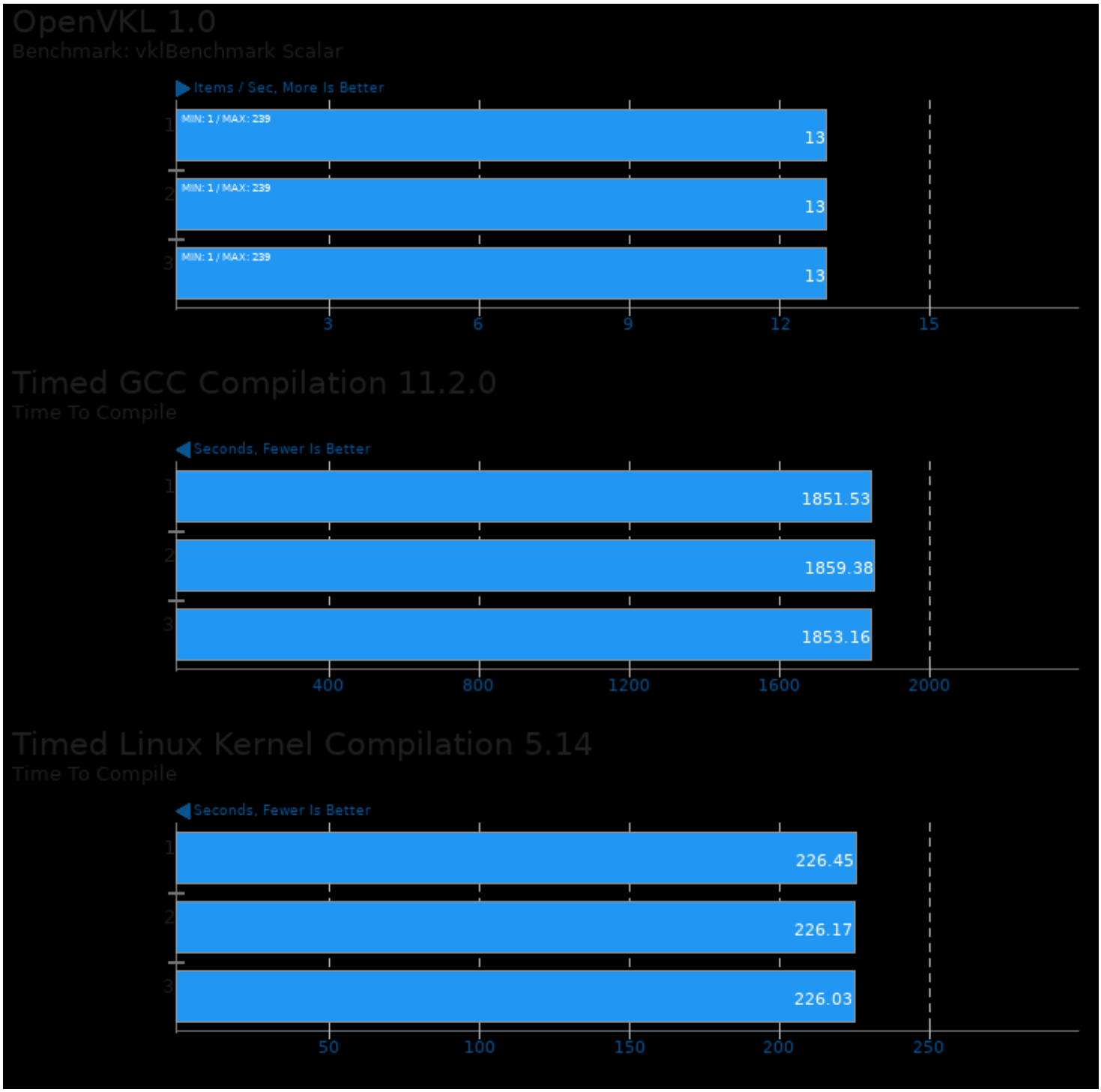
1. (CXX) g++ options: -funwind-tables -O3 -O2 -fPIE -pie -pthread

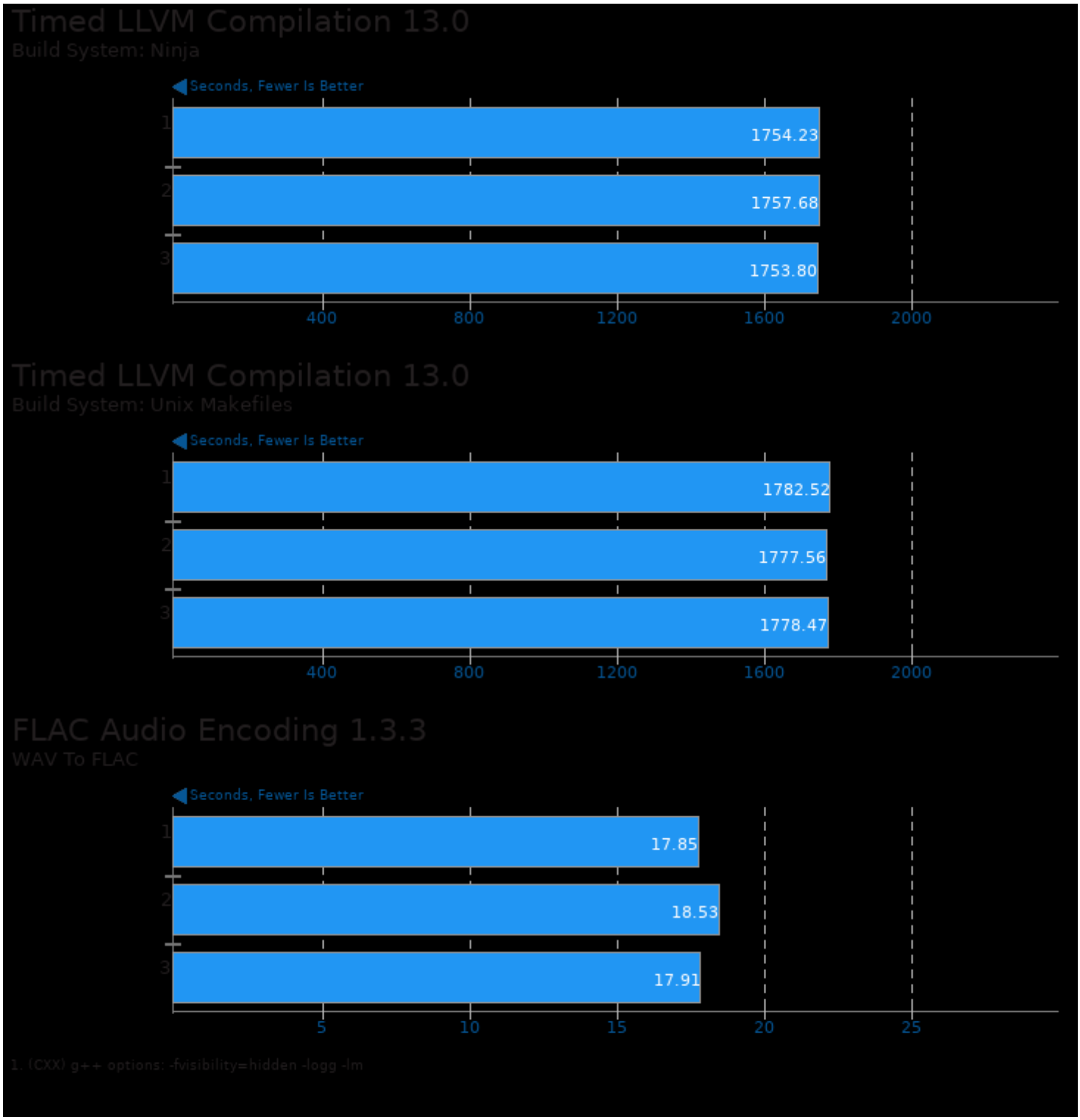

JPEG XL libjxl 0.5
Input: PNG - Encode Speed: 7
MP/s, More Is Better
1
2
3
5.96
5.92
5.95
1.341
2.682
4.023
5.364
6.705
1. (CXX) g++ options: -funwind-tables -O3 -O2 -fPIE -pie -pthread
JPEG XL libjxl 0.5
Input: PNG - Encode Speed: 8
MP/s, More Is Better
1
2
3
0.65
0.65
0.65
0.1463
0.2926
0.4389
0.5852
0.7315
1. (CXX) g++ options: -funwind-tables -O3 -O2 -fPIE -pie -pthread
JPEG XL libjxl 0.5
Input: JPEG - Encode Speed: 5
MP/s, More Is Better
1
2
3
56.14
57.38
57.00
13
26
39
52
65
1. (CXX) g++ options: -funwind-tables -O3 -O2 -fPIE -pie -pthread


JPEG XL libjxl 0.5
Input: JPEG - Encode Speed: 7
MP/s, More Is Better
1
2
3
55.62
55.10
55.65
13
26
39
52
65
1. (CXX) g++ options: -funwind-tables -O3 -O2 -fPIE -pie -pthread
JPEG XL libjxl 0.5
Input: JPEG - Encode Speed: 8
MP/s, More Is Better
1
2
3
22.96
22.90
23.15
6
12
18
24
30
1. (CXX) g++ options: -funwind-tables -O3 -O2 -fPIE -pie -pthread
JPEG XL Decoding libjxl 0.5
CPU Threads: 1
MP/s, More Is Better
1
2
3
45.02
46.69
46.32
11
22
33
44
55


JPEG XL Decoding libjxl 0.5
CPU Threads: All
MP/s, More Is Better
1
136.87
2
138.66
3
141.54
30
60
90
120
150
dav1d 0.9.2
Video Input: Chimera 1080p
FPS, More Is Better
1
MIN: 234.38 / MAX: 509.32
317.66
2
MIN: 239.03 / MAX: 531.65
326.91
3
MIN: 238.37 / MAX: 516.01
324.79
70
140
210
280
350
1. (CC) gcc options: -pthread -lm
dav1d 0.9.2
Video Input: Summer Nature 4K
FPS, More Is Better
1
MIN: 82.68 / MAX: 99.12
88.09
2
MIN: 82.99 / MAX: 100.5
88.49
3
MIN: 83.05 / MAX: 99.89
88.50
20
40
60
80
100
1. (CC) gcc options: -pthread -lm

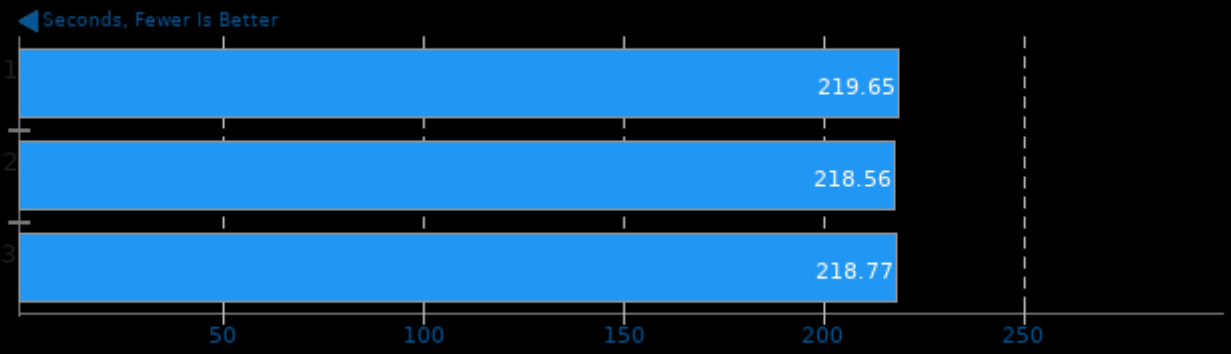

dav1d 0.9.2
Video Input: Summer Nature 1080p
FPS, More Is Better
1
MIN: 273.82 / MAX: 321.3
294.22
2
MIN: 278.88 / MAX: 328.67
301.48
3
MIN: 279.84 / MAX: 329.01
301.49
70
140
210
280
350
1. (CC) gcc options: -pthread -lm
dav1d 0.9.2
Video Input: Chimera 1080p 10-bit
FPS, More Is Better
1
MIN: 193.16 / MAX: 391.09
247.89
2
MIN: 194 / MAX: 396.35
249.44
3
MIN: 193.64 / MAX: 389.51
248.13
50
100
150
200
250
1. (CC) gcc options: -pthread -lm
OpenVKL 1.0
Benchmark: vklBenchmark ISPC
Items / Sec, More Is Better
1
MIN: 3 / MAX: 345
32
2
MIN: 3 / MAX: 345
32
3
MIN: 3 / MAX: 344
32
7
14
21
28
35


OpenVKL 1.0
Benchmark: vklBenchmark Scalar
Items / Sec, More Is Better
1
MIN: 1 / MAX: 239
13
2
MIN: 1 / MAX: 239
13
3
MIN: 1 / MAX: 239
13
3
6
9
12
15
Timed GCC Compilation 11.2.0
Time To Compile
Seconds, Fewer Is Better
1
1851.53
2
1859.38
3
1853.16
400
800
1200
1600
2000
Timed Linux Kernel Compilation 5.14
Time To Compile
Seconds, Fewer Is Better
1
226.45
2
226.17
3
226.03
50
100
150
200
250


Timed LLVM Compilation 13.0
Build System: Ninja
Seconds, Fewer Is Better
1754.23
1757.68
1753.80
400
800
1200
1600
2000
Timed LLVM Compilation 13.0
Build System: Unix Makefiles
Seconds, Fewer Is Better
1782.52
1777.56
1778.47
400
800
1200
1600
2000
FLAC Audio Encoding 1.3.3
WAV To FLAC
Seconds, Fewer Is Better
17.85
18.53
17.91
5
10
15
20
25
1. (CXX) g++ options: -fvisibility=hidden -logg -lm

Tachyon 0.99b6

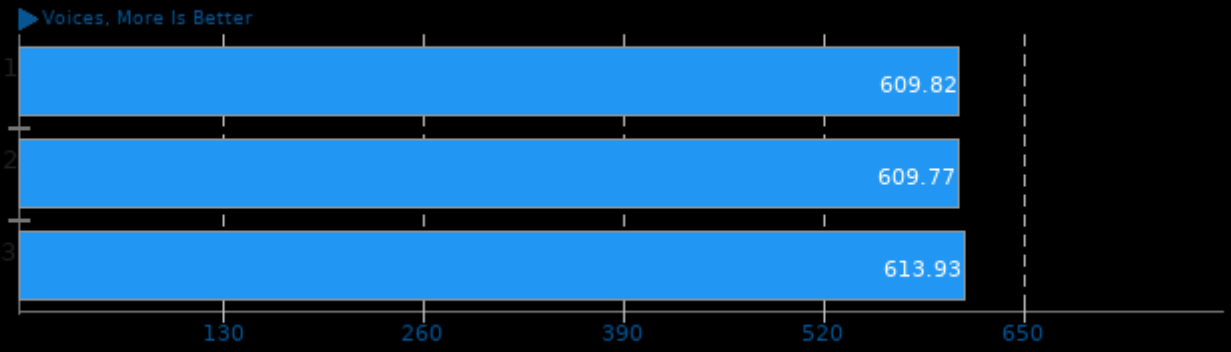
Total Time



1. (CC) gcc options: -m64 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread

Google SynthMark 20201109

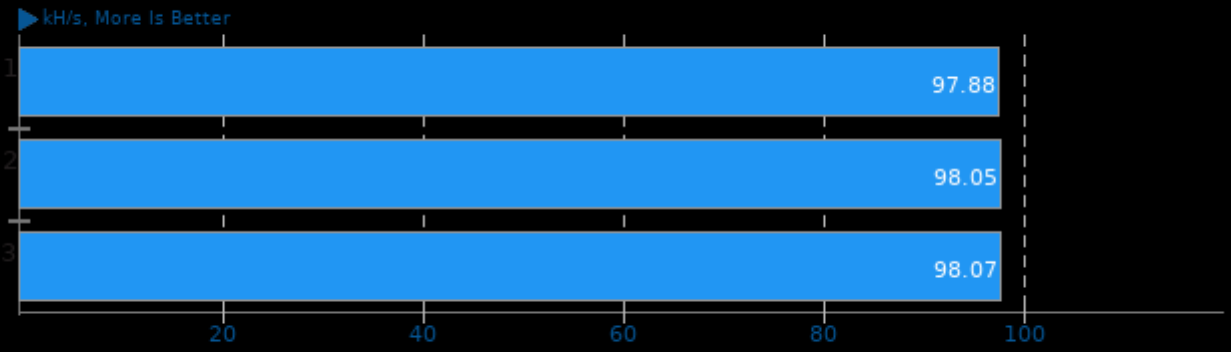
Test: VoiceMark_100



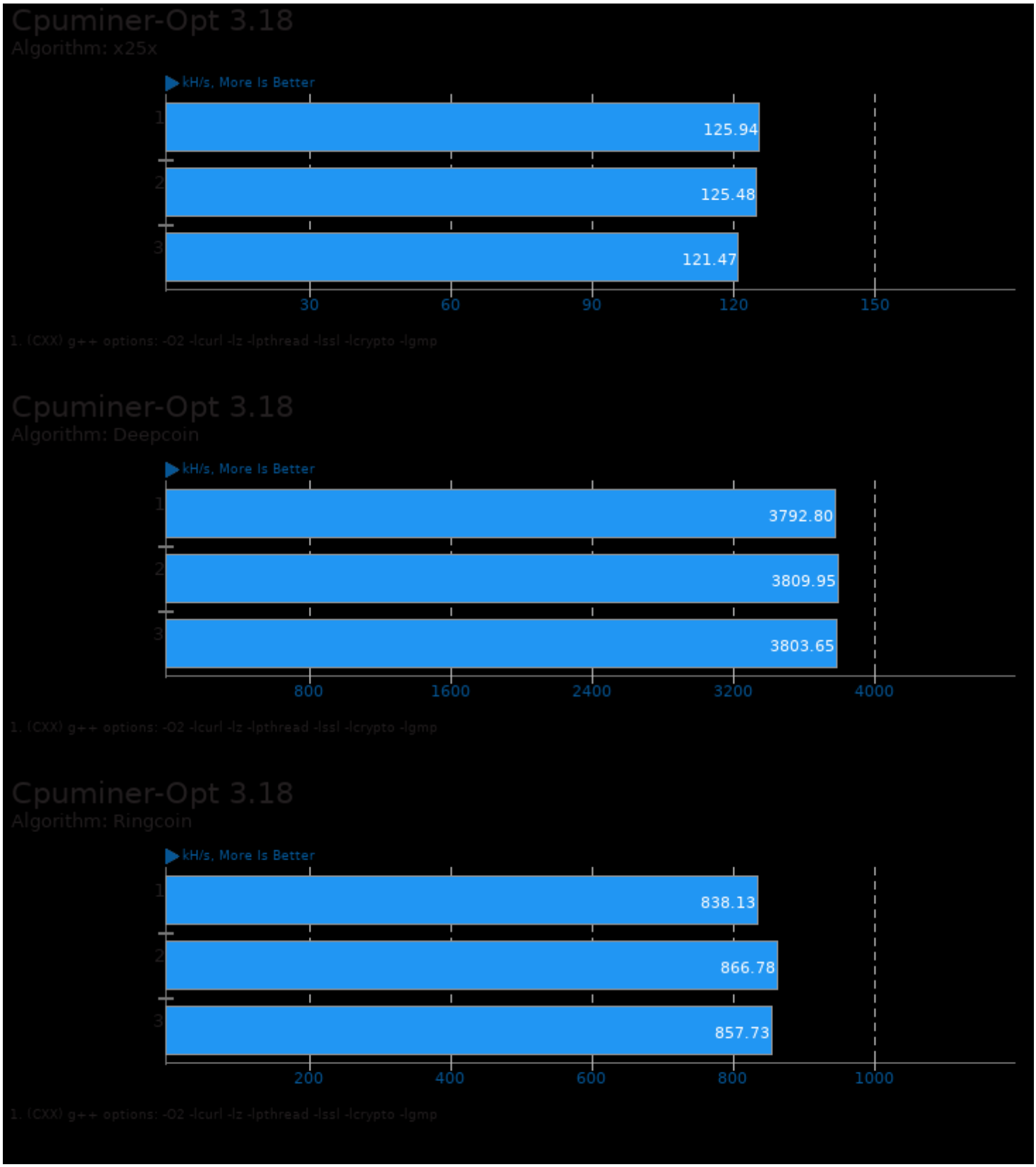
1. (CXX) g++ options: -lm -lpthread -std=c++11 -Ofast

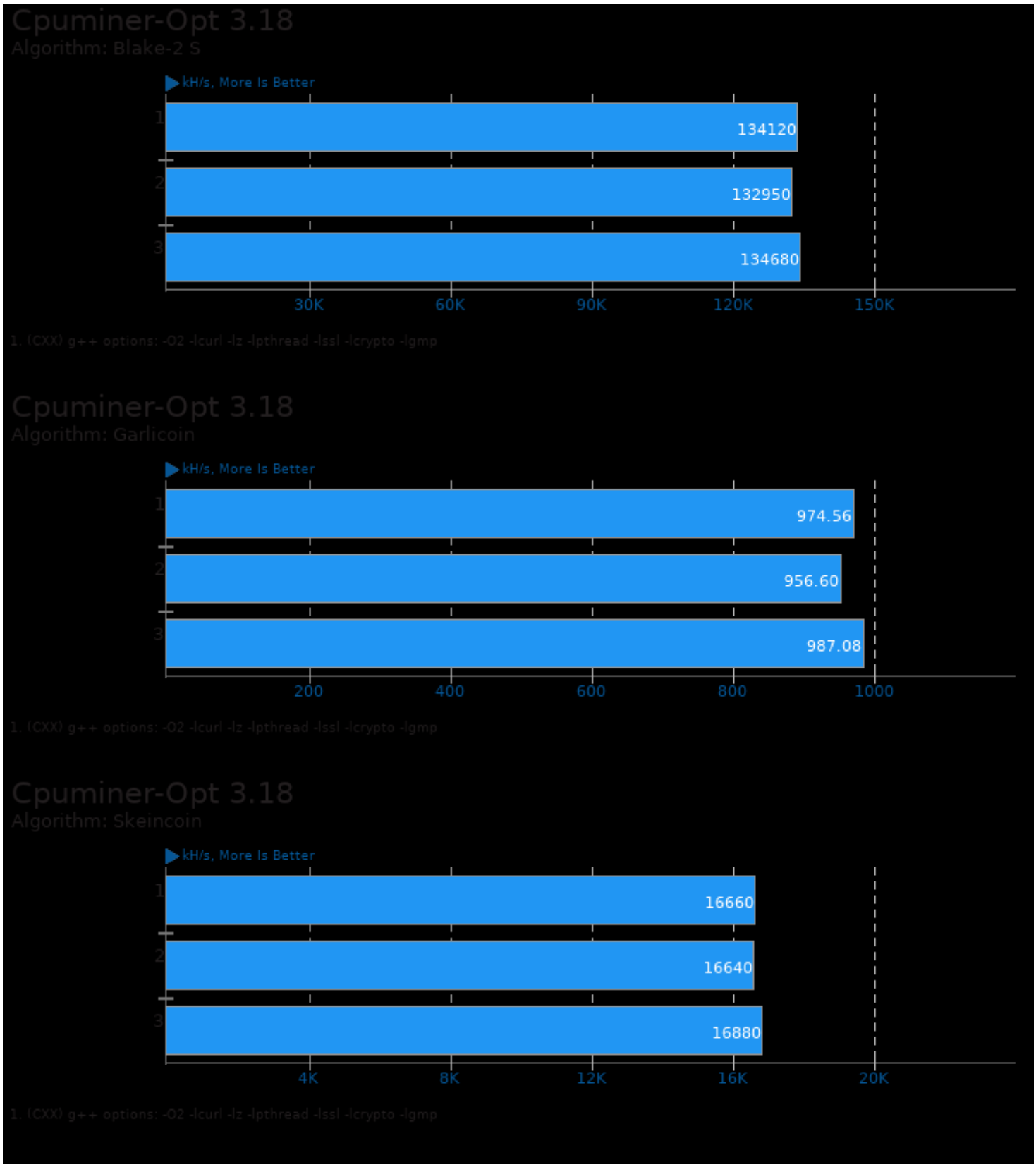
Cpuminer-Opt 3.18

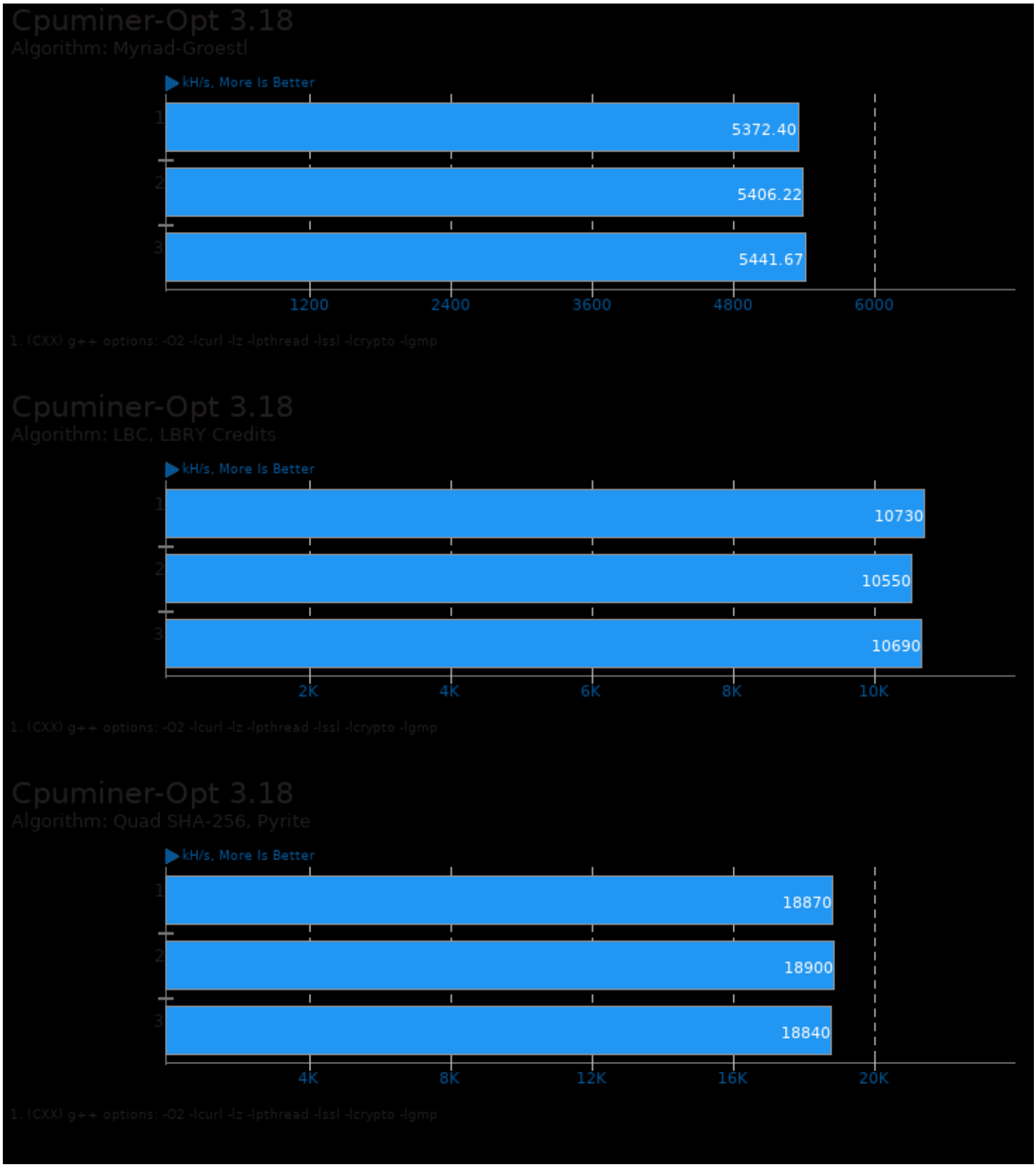
Algorithm: Magi



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

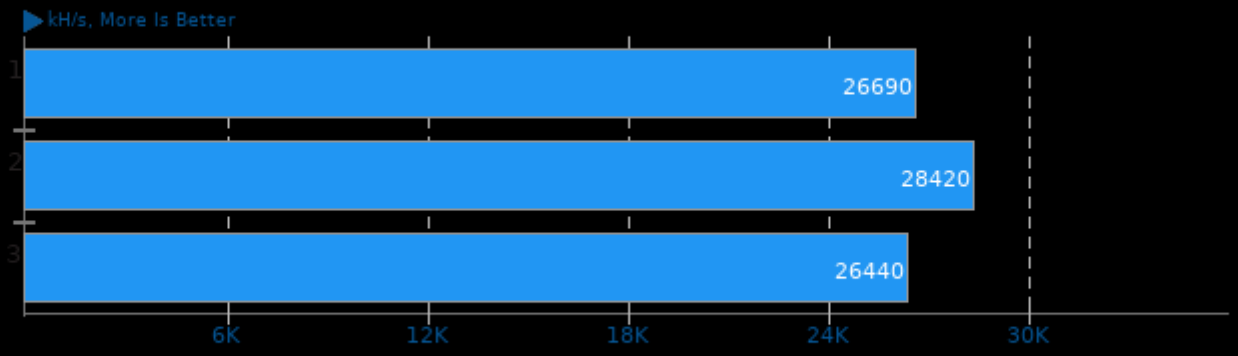

Cpuminer-Opt 3.18
Algorithm: x25x
kH/s, More Is Better
1
125.94
2
125.48
3
121.47
30
60
90
120
150
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Deepcoin
kH/s, More Is Better
1
3792.80
2
3809.95
3
3803.65
800
1600
2400
3200
4000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Ringcoin
kH/s, More Is Better
1
838.13
2
866.78
3
857.73
200
400
600
800
1000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp


Cpuminer-Opt 3.18
Algorithm: Blake-2 S
kH/s, More Is Better
1
2
3
134120
132950
134680
30K
60K
90K
120K
150K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Garlicoin
kH/s, More Is Better
1
2
3
974.56
956.60
987.08
200
400
600
800
1000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Skeincoin
kH/s, More Is Better
1
2
3
16660
16640
16880
4K
8K
12K
16K
20K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp


Cpuminer-Opt 3.18
Algorithm: Myriad-Groestl
kH/s, More Is Better
1
2
3
5372.40
5406.22
5441.67
1200
2400
3600
4800
6000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: LBC, LBRY Credits
kH/s, More Is Better
1
2
3
10730
10550
10690
2K
4K
6K
8K
10K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Quad SHA-256, Pyrite
kH/s, More Is Better
1
2
3
18870
18900
18840
4K
8K
12K
16K
20K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

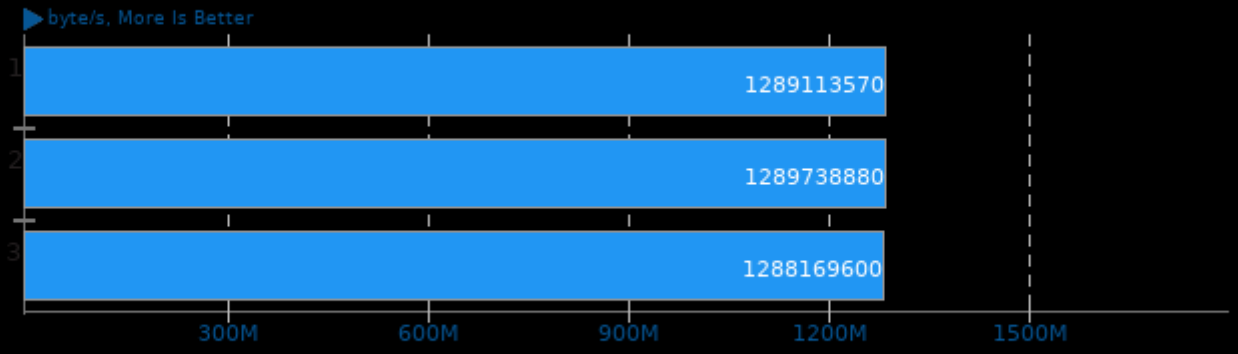
Algorithm: Triple SHA-256, Onecoin



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

OpenSSL 3.0

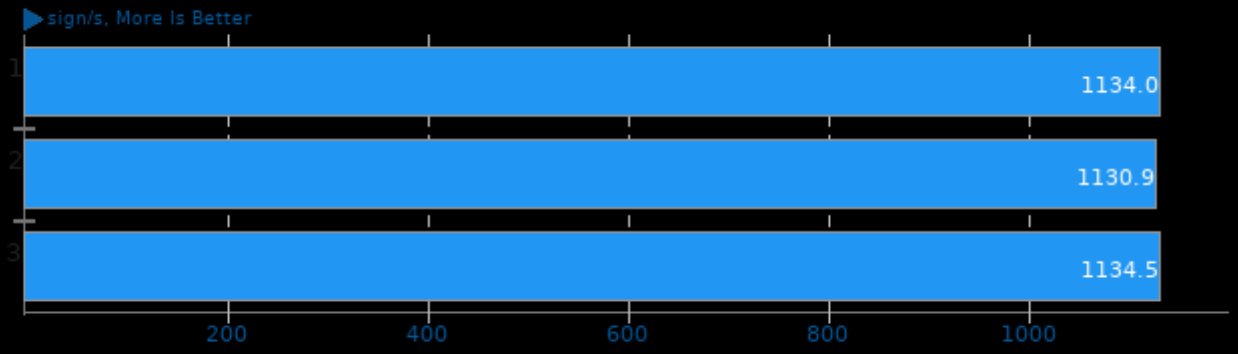
Algorithm: SHA256



1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

OpenSSL 3.0

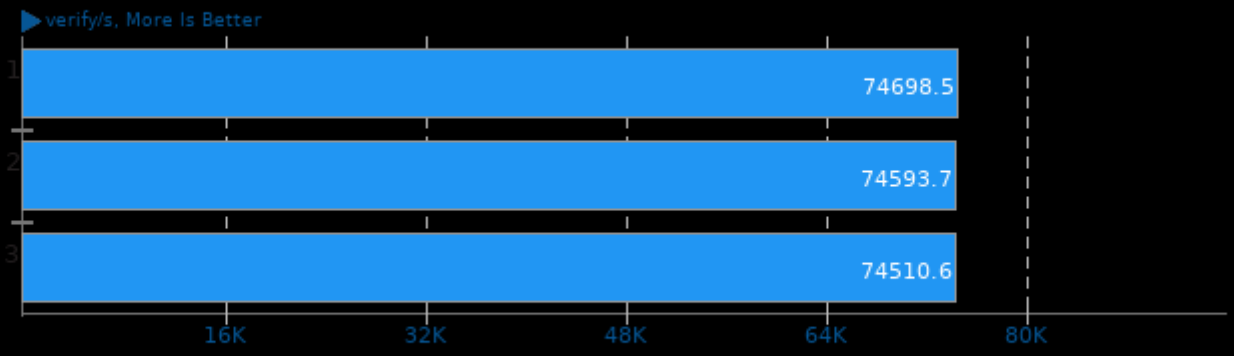
Algorithm: RSA4096



1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

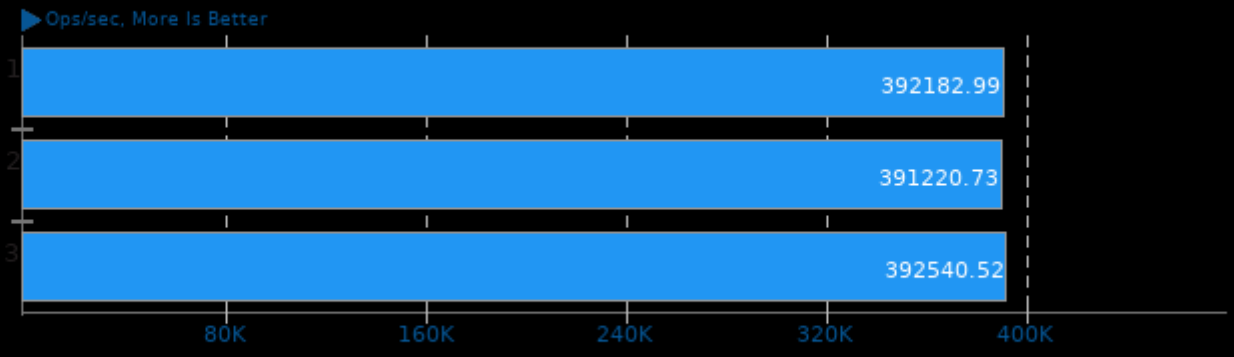
OpenSSL 3.0

Algorithm: RSA4096



1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

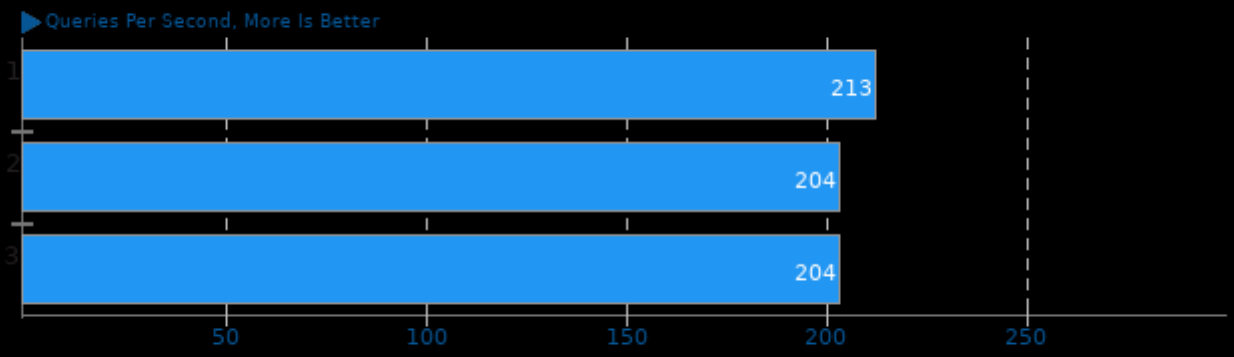
KeyDB 6.2.0



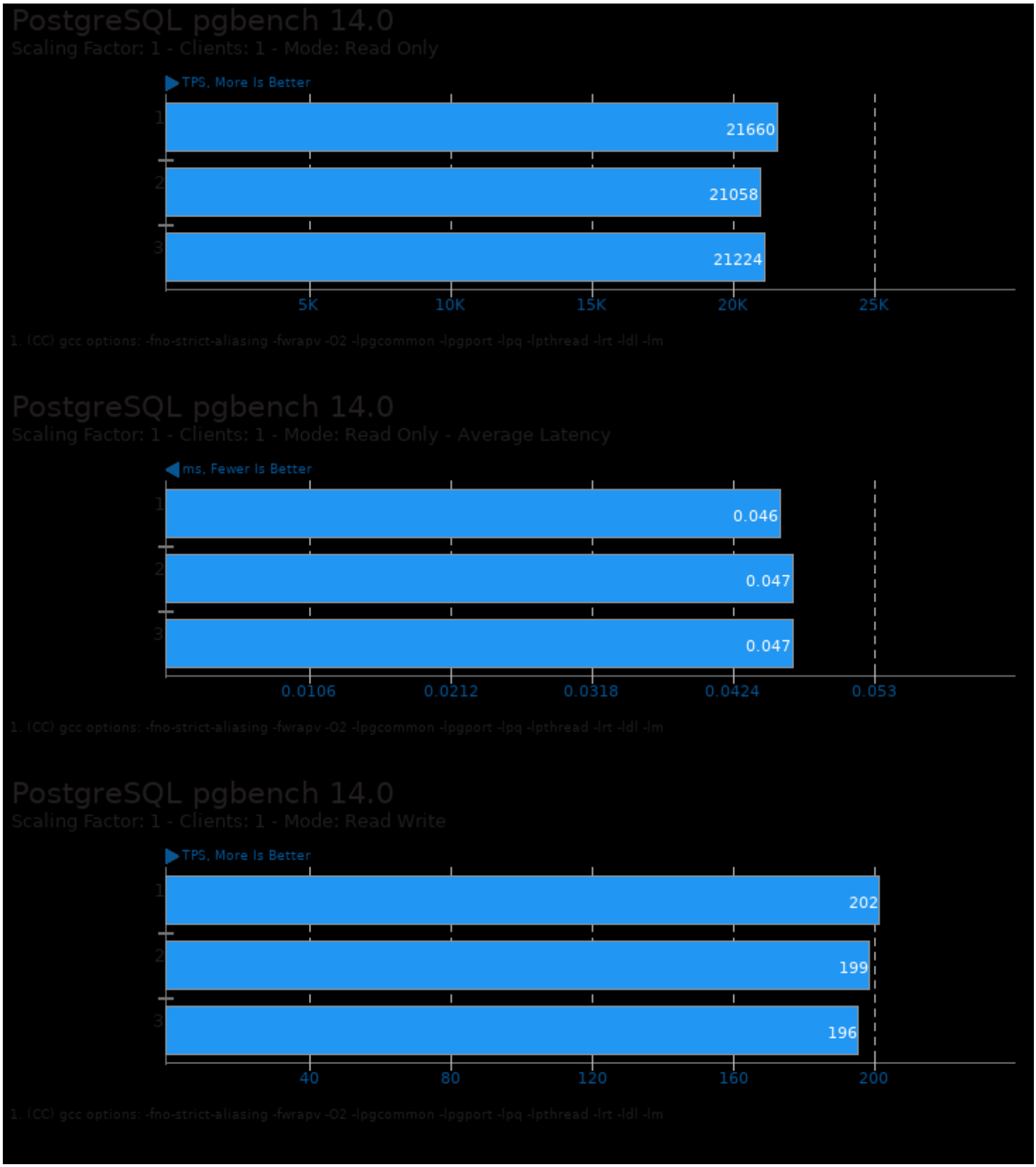
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

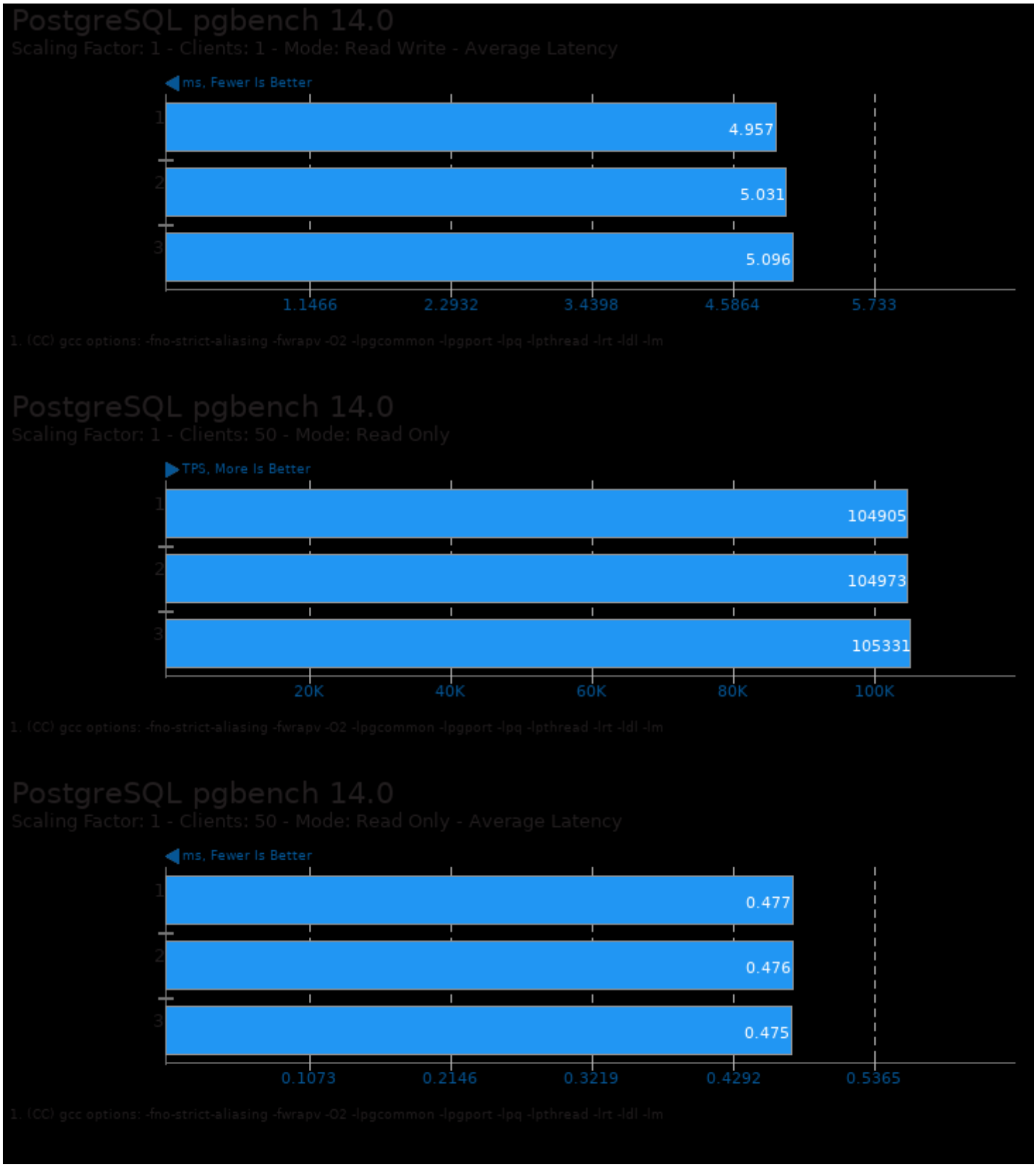
MariaDB 10.6.4

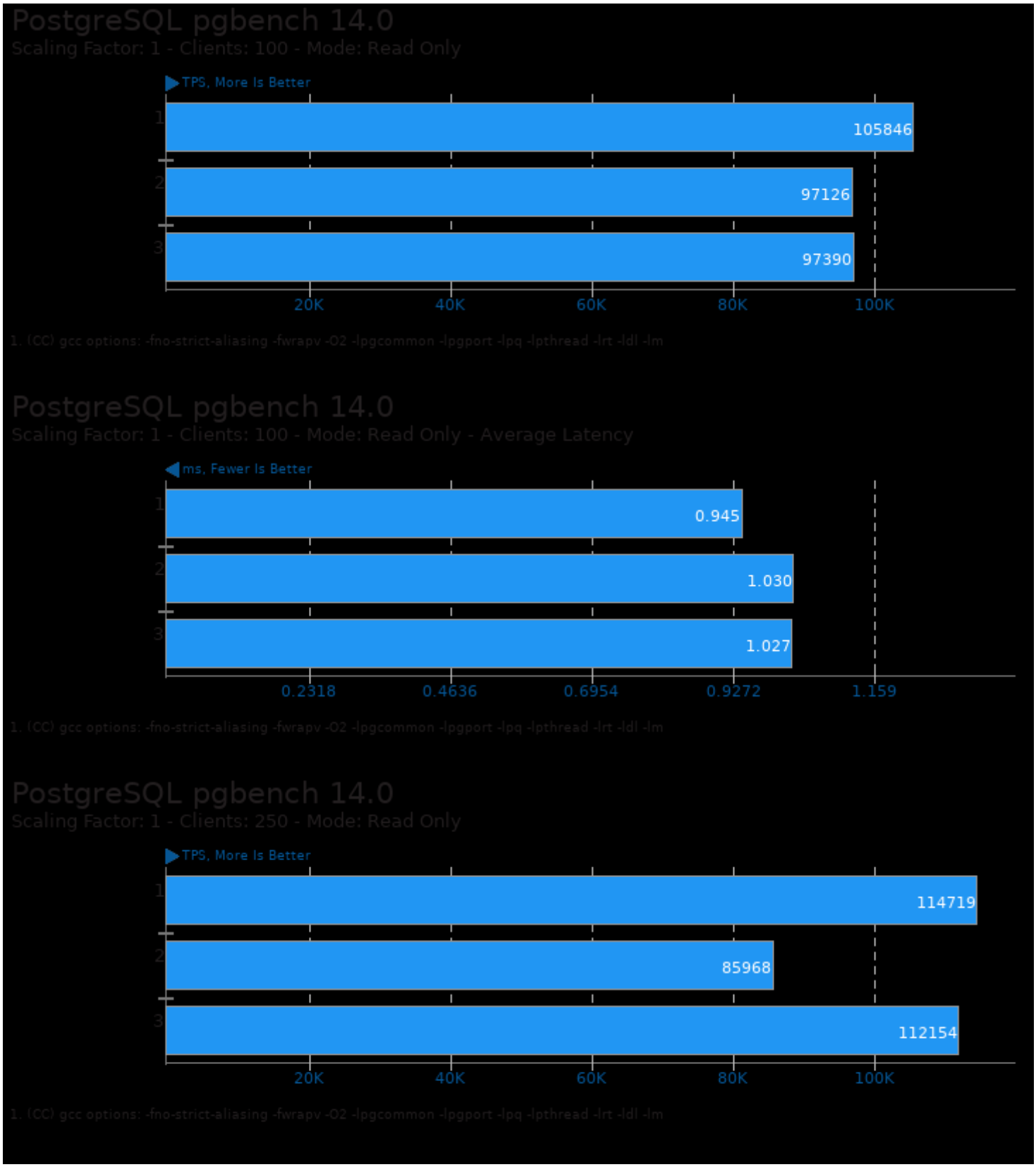
Clients: 64

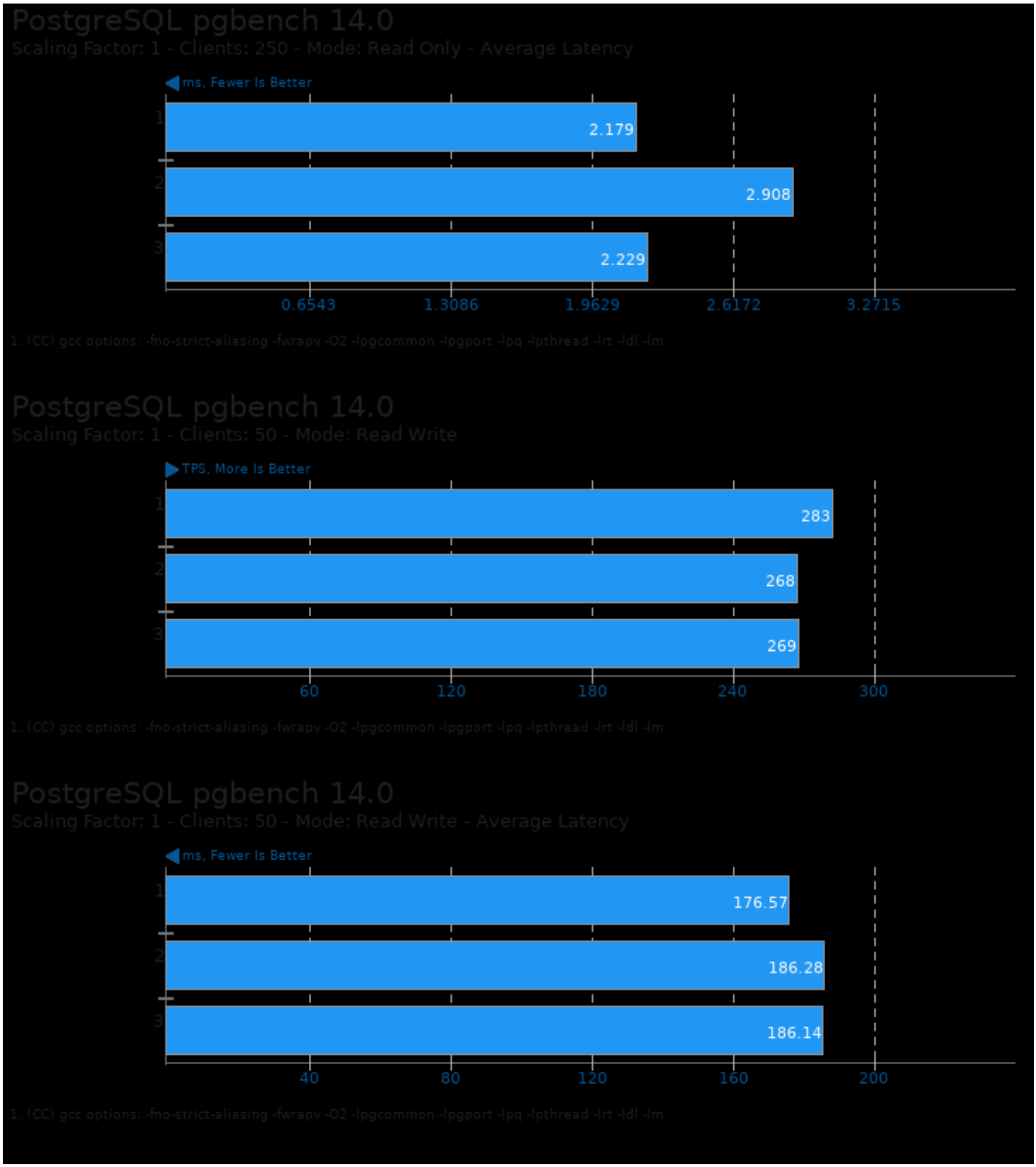


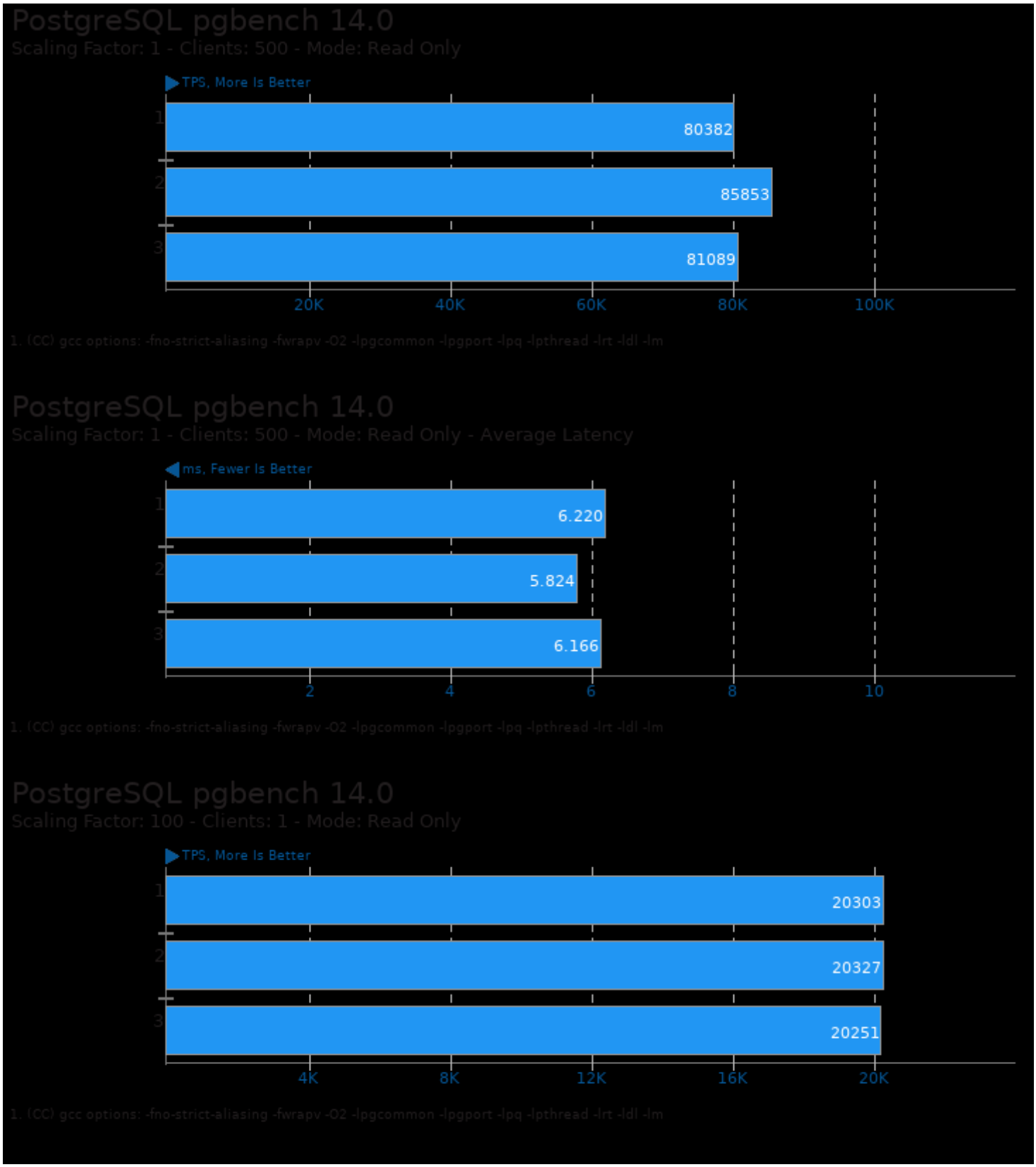
1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -pthread -llzma -lbz2 -lsnappy -lnuma -lpcre2-8 -lcrypt -laio -lz -lm -lssl -lcrypto -lpthread -ldl

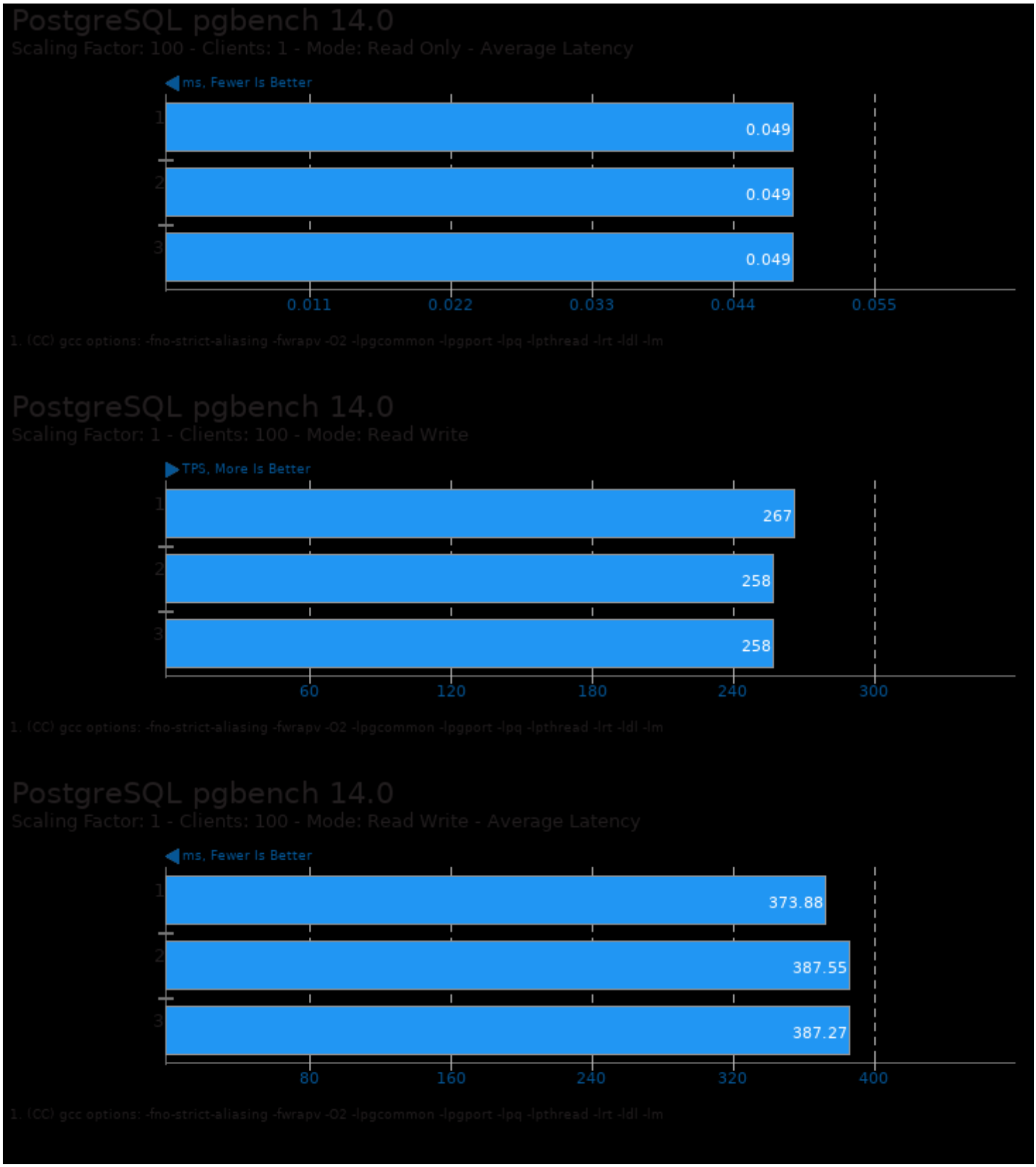

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 1 - Mode: Read Only
TPS, More Is Better
1
21660
2
21058
3
21224
5K
10K
15K
20K
25K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
0.046
2
0.047
3
0.047
0.0106
0.0212
0.0318
0.0424
0.053
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 1 - Mode: Read Write
TPS, More Is Better
1
202
2
199
3
196
40
80
120
160
200
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

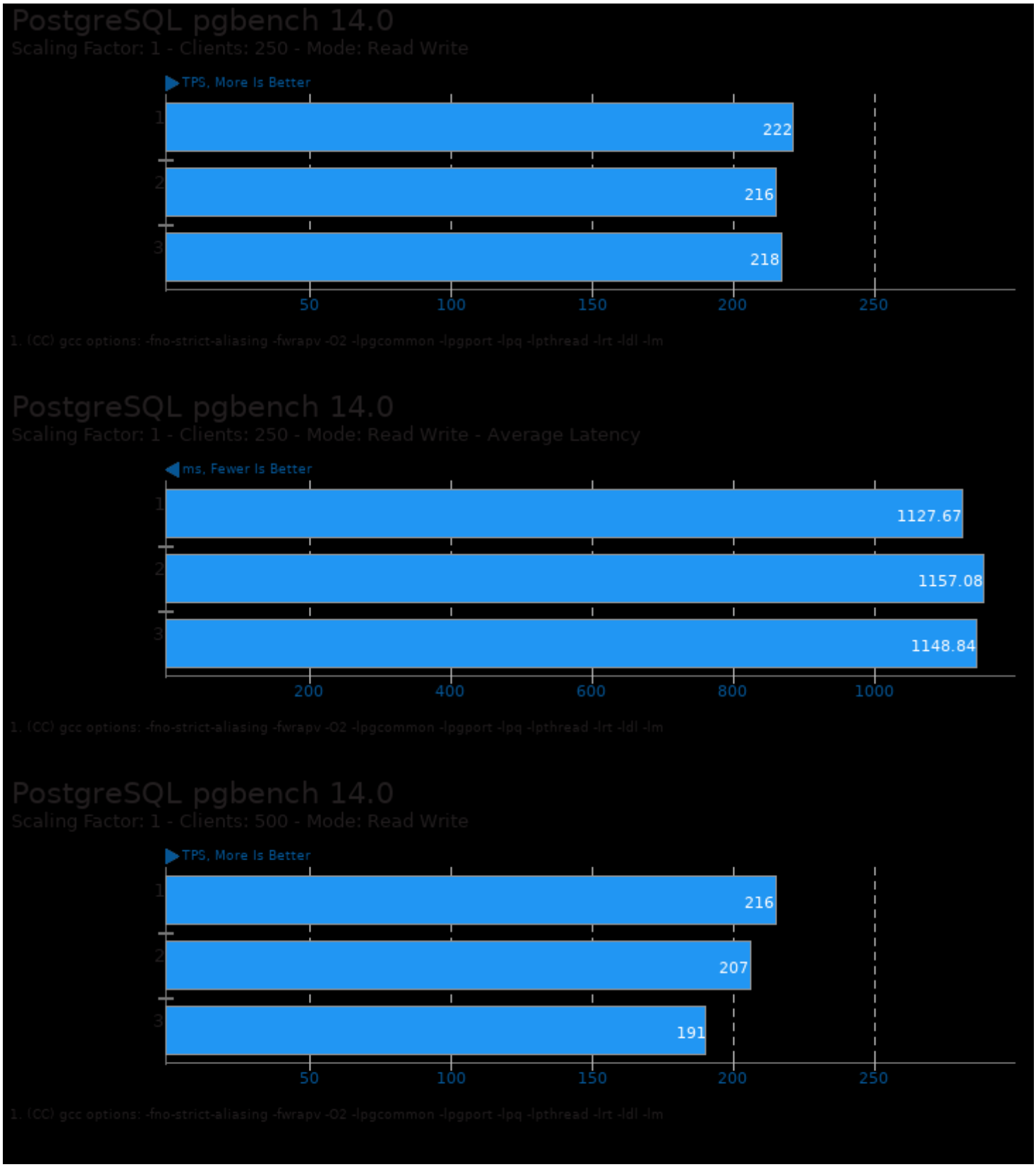

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
4.957
2
5.031
3
5.096
1.1466
2.2932
3.4398
4.5864
5.733
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 50 - Mode: Read Only
TPS, More Is Better
1
104905
2
104973
3
105331
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 50 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
0.477
2
0.476
3
0.475
0.1073
0.2146
0.3219
0.4292
0.5365
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

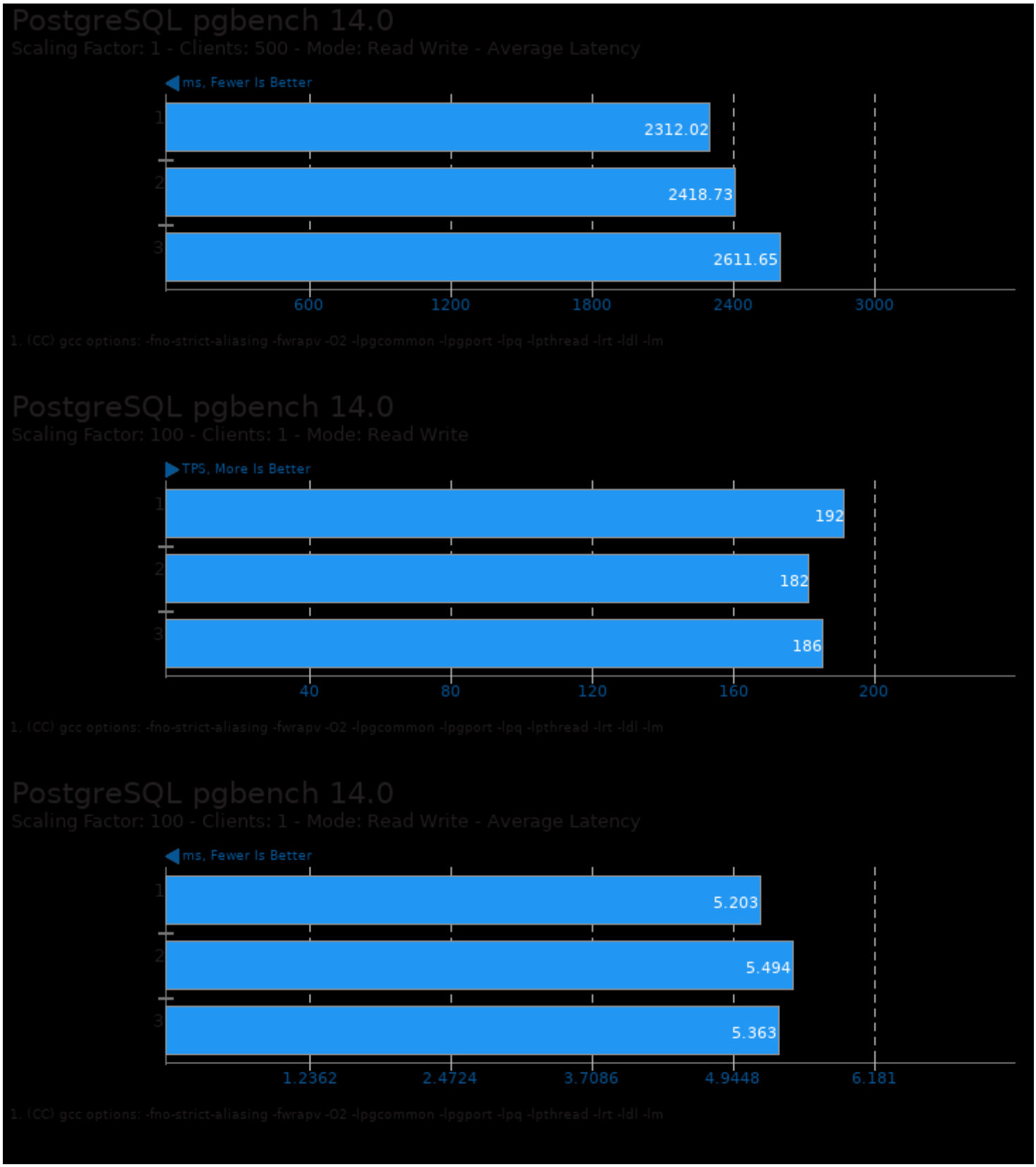

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Only
TPS, More Is Better
1
105846
2
97126
3
97390
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
0.945
2
1.030
3
1.027
0.2318
0.4636
0.6954
0.9272
1.159
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 250 - Mode: Read Only
TPS, More Is Better
1
114719
2
85968
3
112154
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

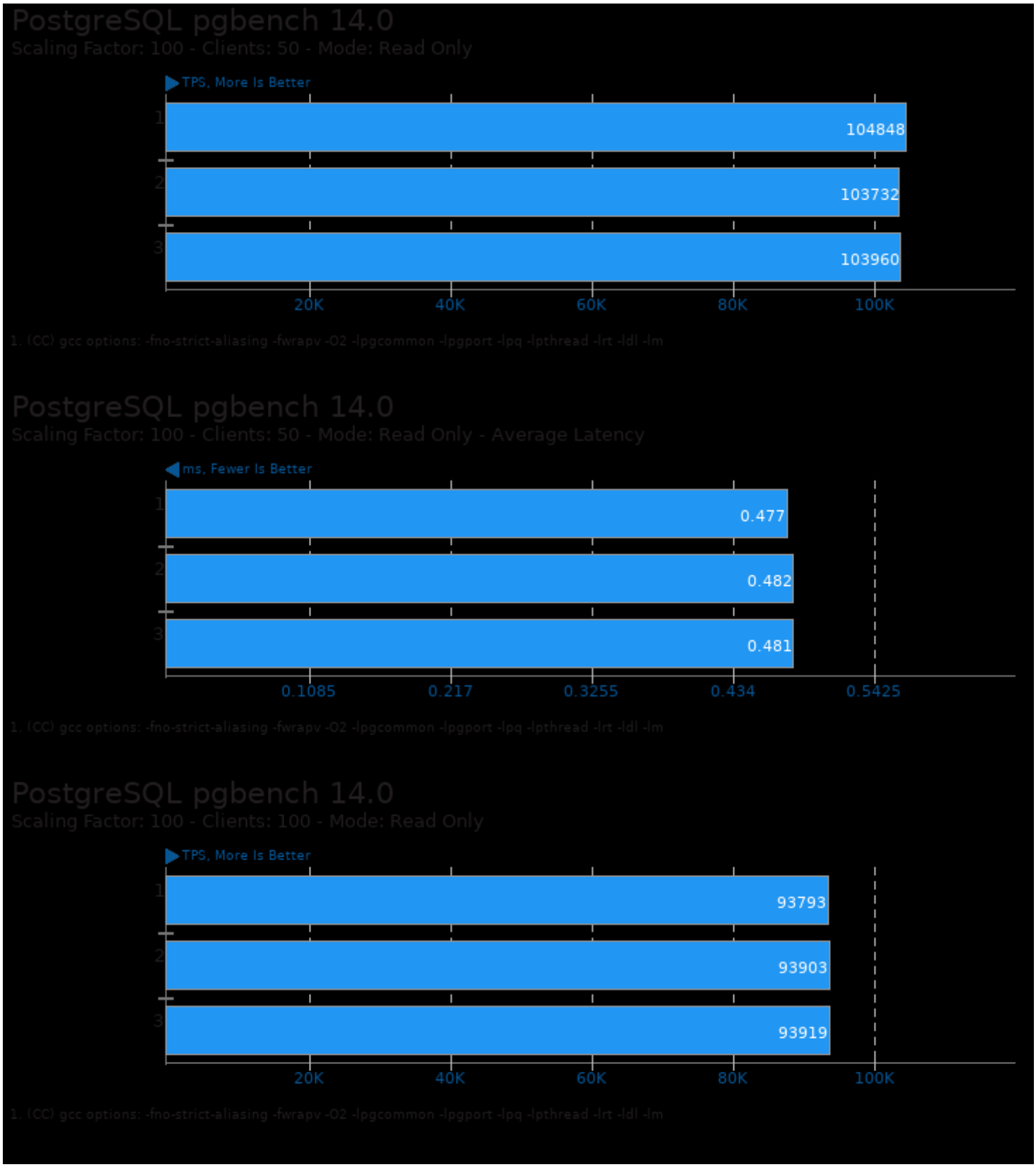

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
2.179
2
2.908
3
2.229
0.6543
1.3086
1.9629
2.6172
3.2715
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 50 - Mode: Read Write
TPS, More Is Better
1
283
2
268
3
269
60
120
180
240
300
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
176.57
2
186.28
3
186.14
40
80
120
160
200
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

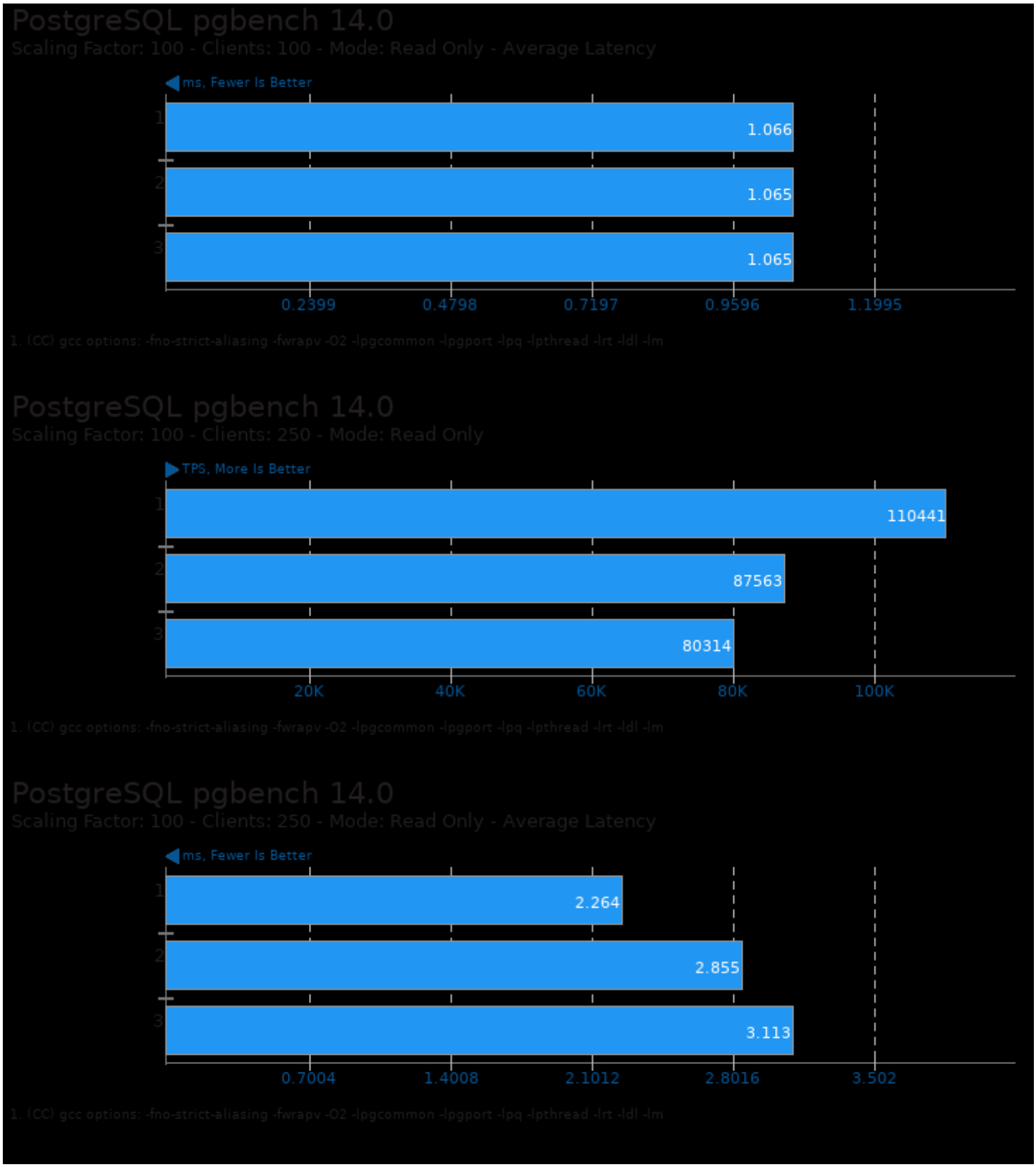

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 500 - Mode: Read Only
TPS, More Is Better
1
80382
2
85853
3
81089
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 500 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
6.220
2
5.824
3
6.166
2
4
6
8
10
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 1 - Mode: Read Only
TPS, More Is Better
1
20303
2
20327
3
20251
4K
8K
12K
16K
20K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

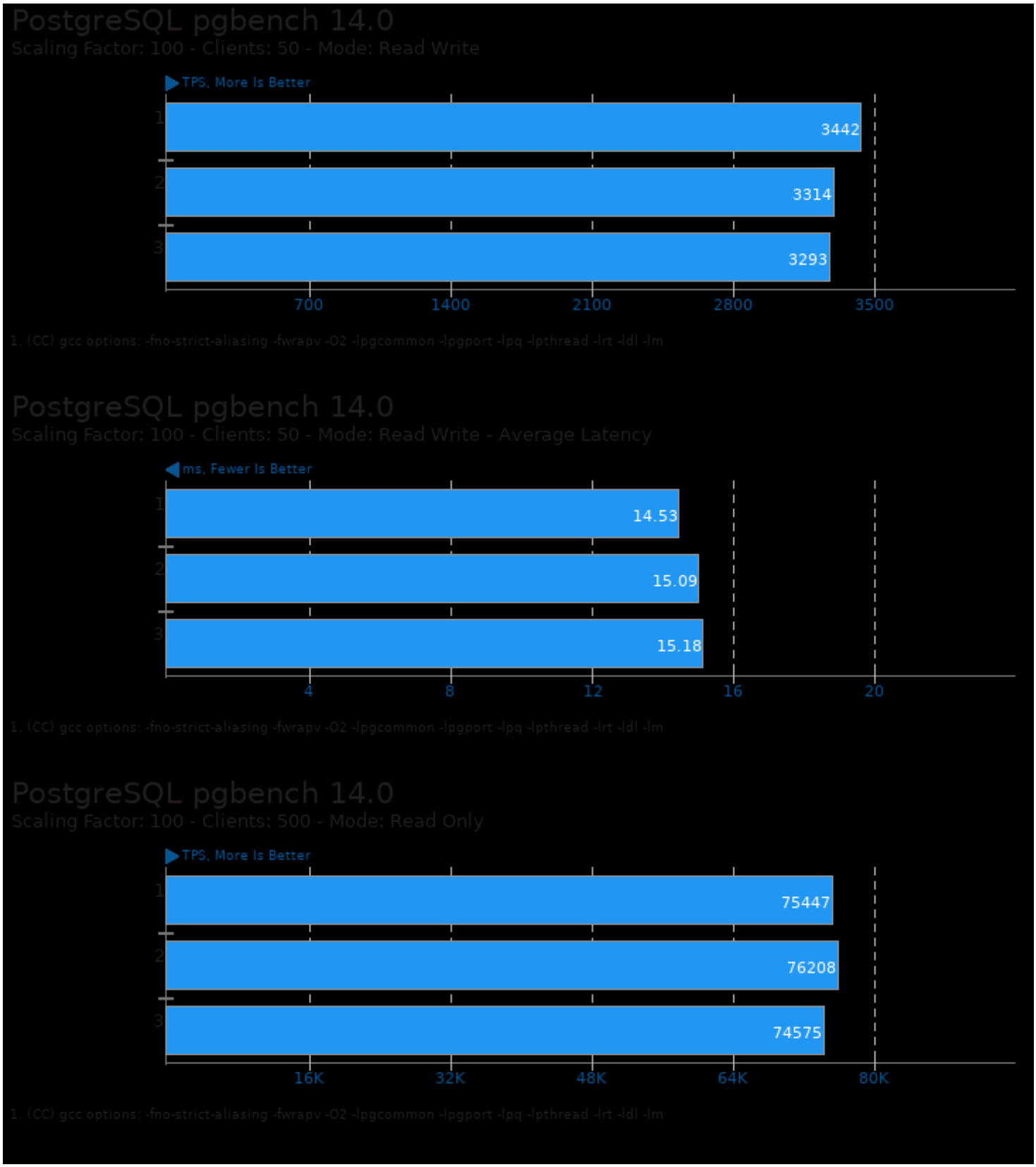

PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
2
3
0.049
0.049
0.049
0.011
0.022
0.033
0.044
0.055
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Write
TPS, More Is Better
1
2
3
267
258
258
60
120
180
240
300
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
2
3
373.88
387.55
387.27
80
160
240
320
400
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

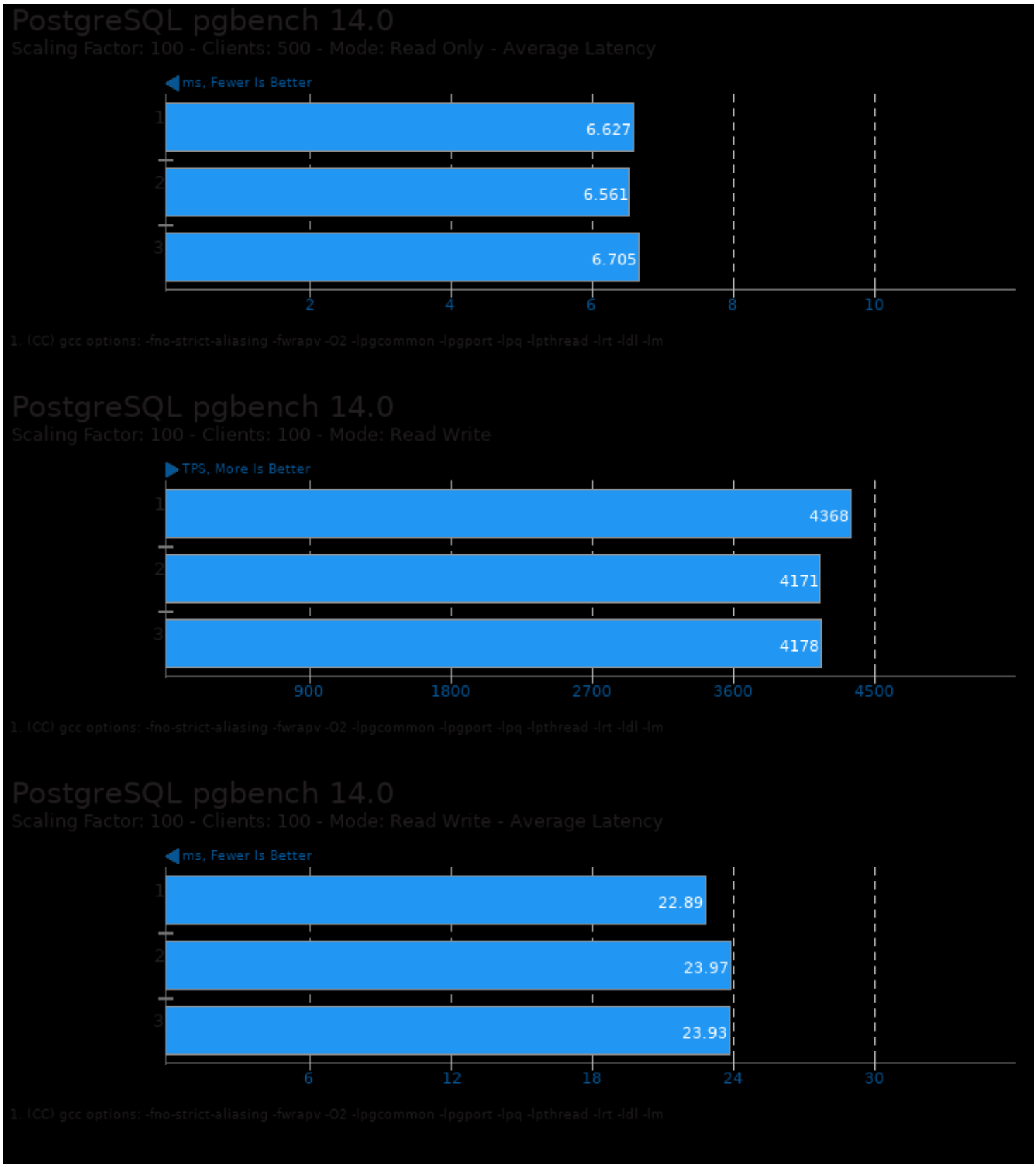

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 250 - Mode: Read Write
TPS, More Is Better
1
222
2
216
3
218
50
100
150
200
250
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 250 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
1127.67
2
1157.08
3
1148.84
200
400
600
800
1000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 500 - Mode: Read Write
TPS, More Is Better
1
216
2
207
3
191
50
100
150
200
250
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

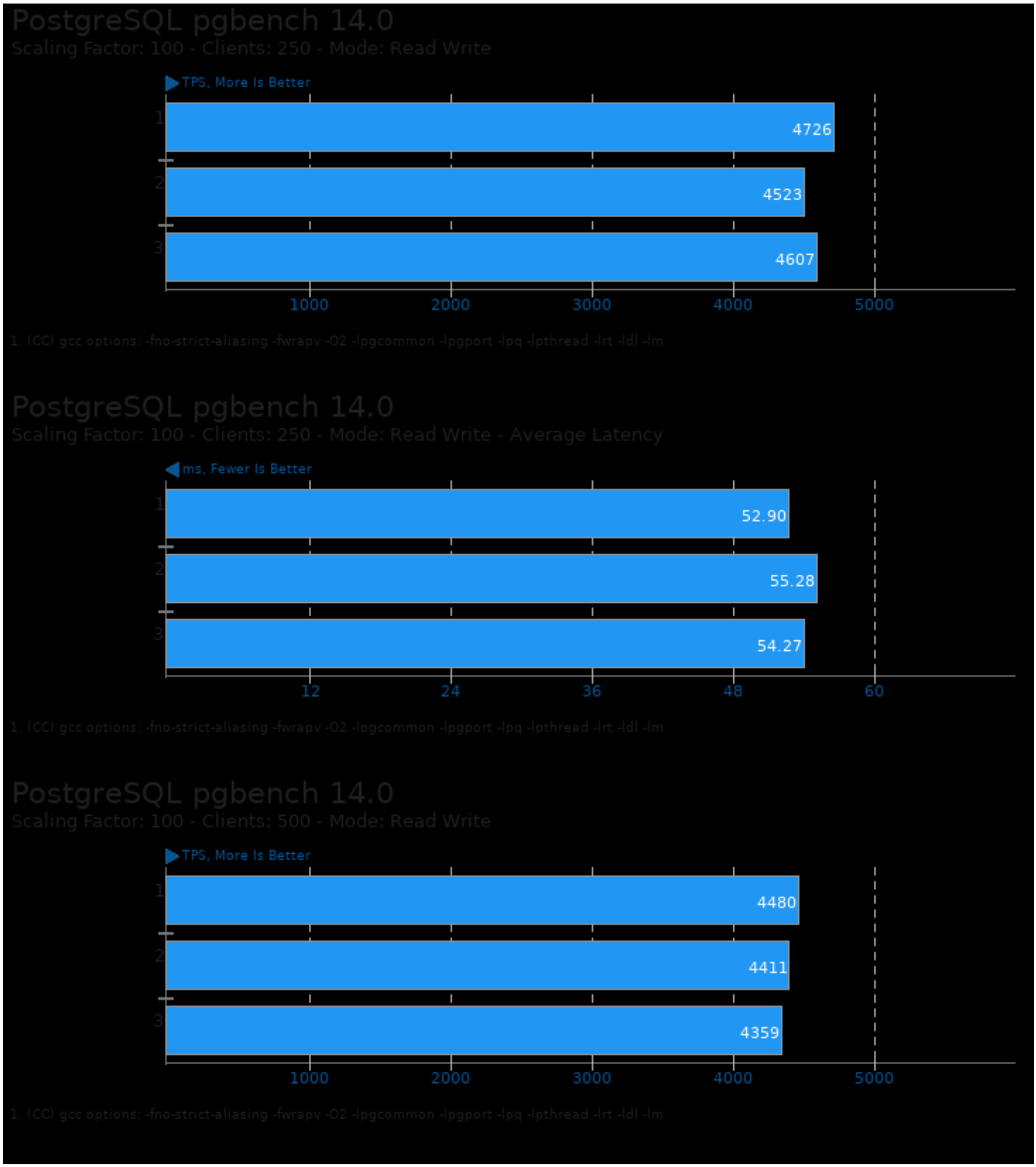

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
2312.02
2
2418.73
3
2611.65
600
1200
1800
2400
3000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 1 - Mode: Read Write
TPS, More Is Better
1
192
2
182
3
186
40
80
120
160
200
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
5.203
2
5.494
3
5.363
1.2362
2.4724
3.7086
4.9448
6.181
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 50 - Mode: Read Only
TPS, More Is Better
1
104848
2
103732
3
103960
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
0.477
2
0.482
3
0.481
0.1085
0.217
0.3255
0.434
0.5425
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 100 - Mode: Read Only
TPS, More Is Better
1
93793
2
93903
3
93919
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1.066
1.065
1.065
0.2399
0.4798
0.7197
0.9596
1.1995
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 250 - Mode: Read Only
TPS, More Is Better
110441
87563
80314
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency
ms, Fewer Is Better
2.264
2.855
3.113
0.7004
1.4008
2.1012
2.8016
3.502
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

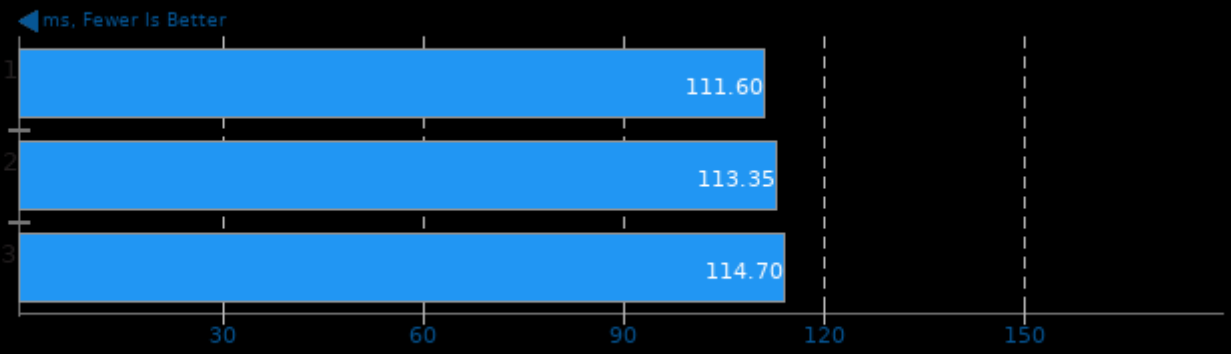

PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 50 - Mode: Read Write
TPS, More Is Better
1
3442
2
3314
3
3293
700
1400
2100
2800
3500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
14.53
2
15.09
3
15.18
4
8
12
16
20
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 500 - Mode: Read Only
TPS, More Is Better
1
75447
2
76208
3
74575
16K
32K
48K
64K
80K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 500 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
6.627
2
6.561
3
6.705
2
4
6
8
10
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 100 - Mode: Read Write
TPS, More Is Better
1
4368
2
4171
3
4178
900
1800
2700
3600
4500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
22.89
2
23.97
3
23.93
6
12
18
24
30
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 250 - Mode: Read Write
TPS, More Is Better
1
4726
2
4523
3
4607
1000
2000
3000
4000
5000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
52.90
2
55.28
3
54.27
12
24
36
48
60
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 500 - Mode: Read Write
TPS, More Is Better
1
4480
2
4411
3
4359
1000
2000
3000
4000
5000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 14.0

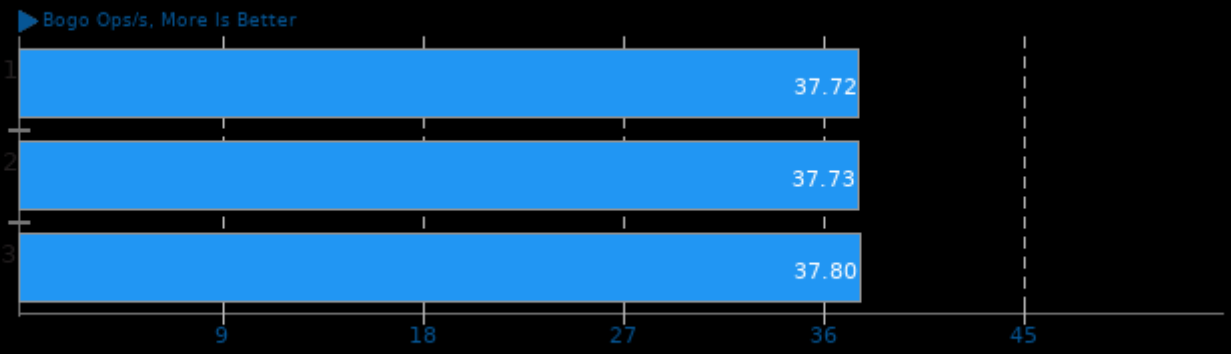
Scaling Factor: 100 - Clients: 500 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

Stress-NG 0.13.02

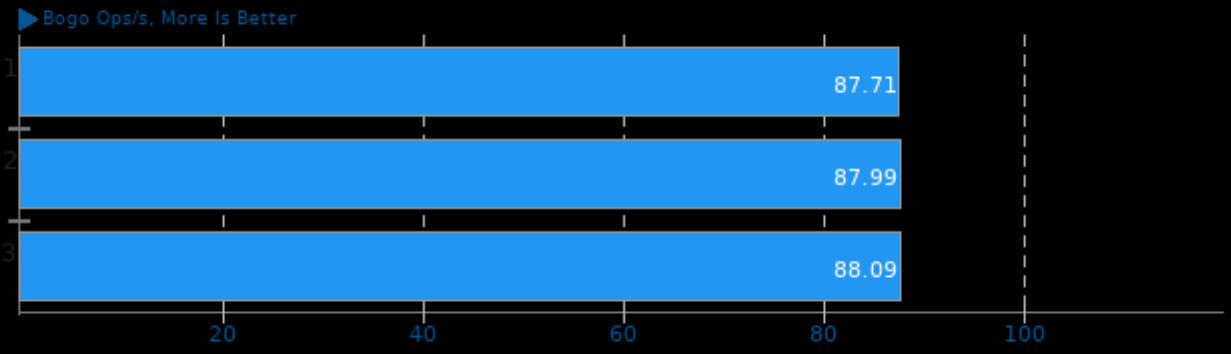
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

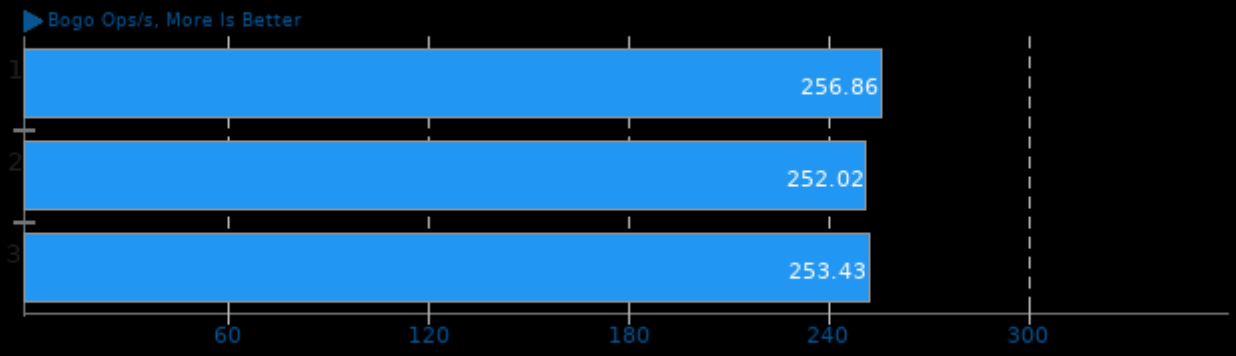
Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

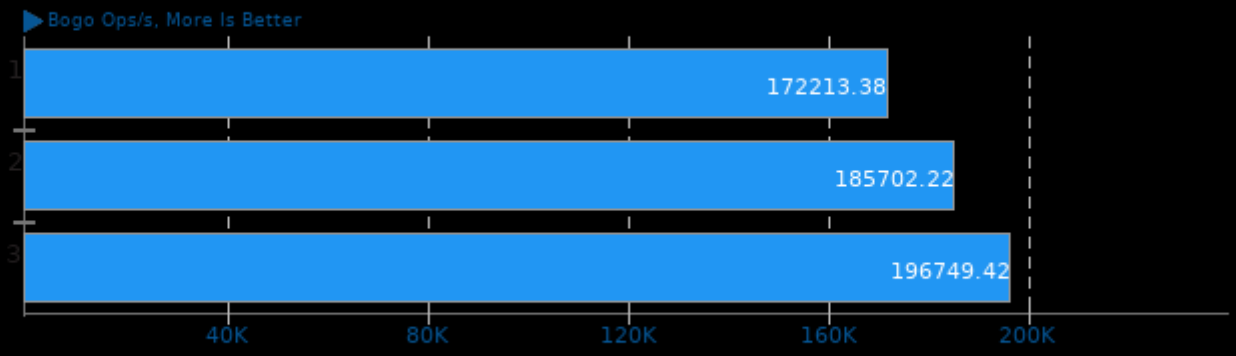
Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

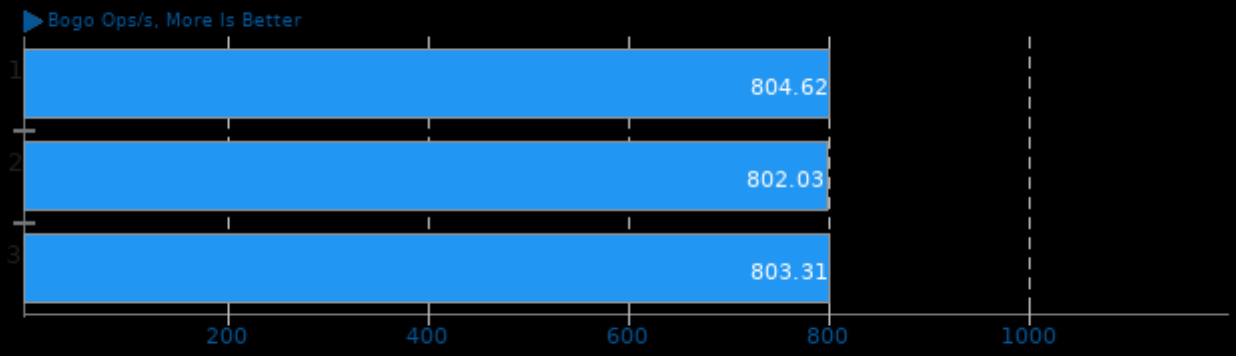
Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

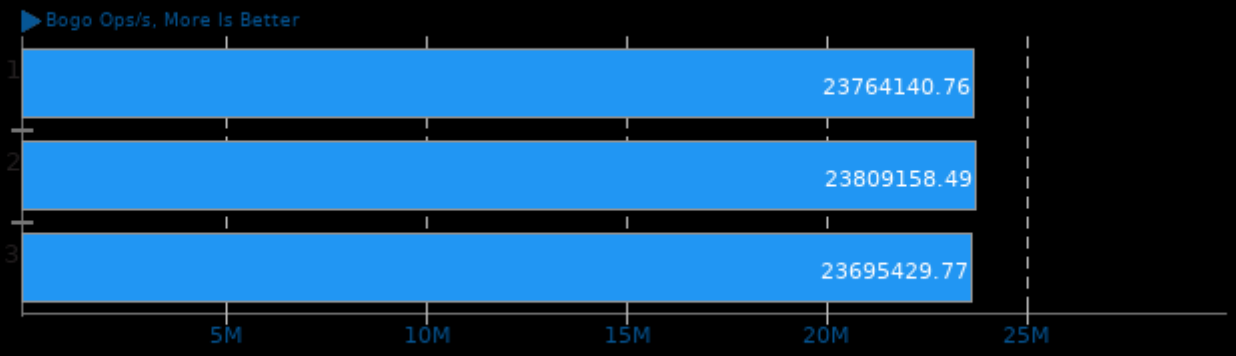
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

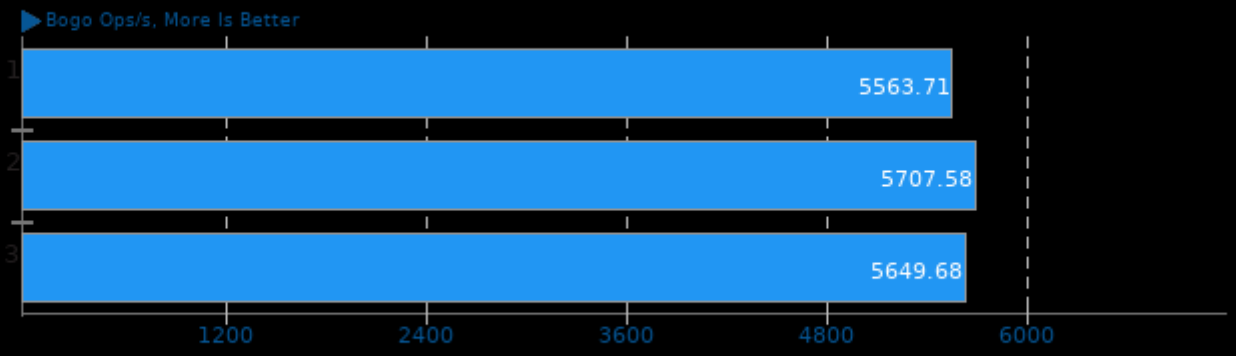
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

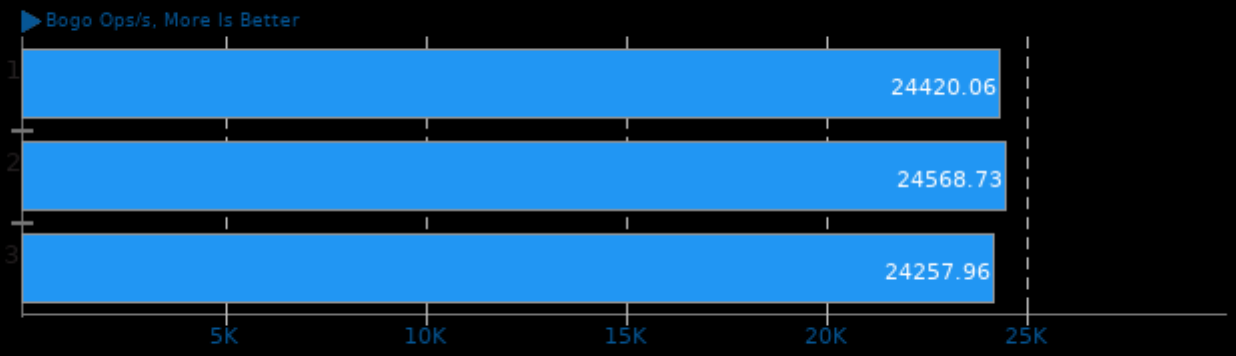
Test: RdRand



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

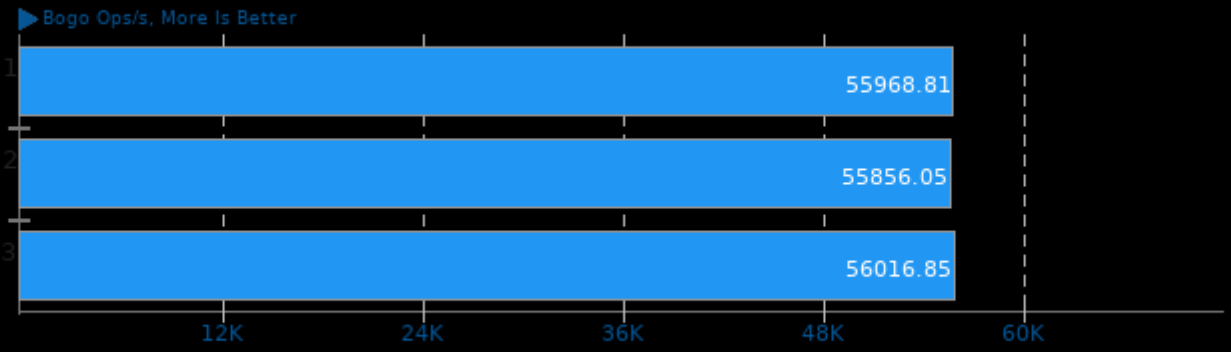
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

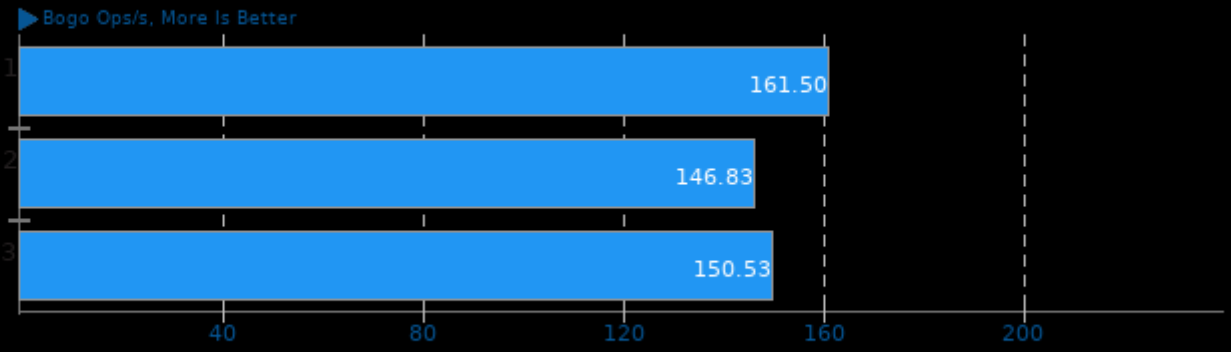
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

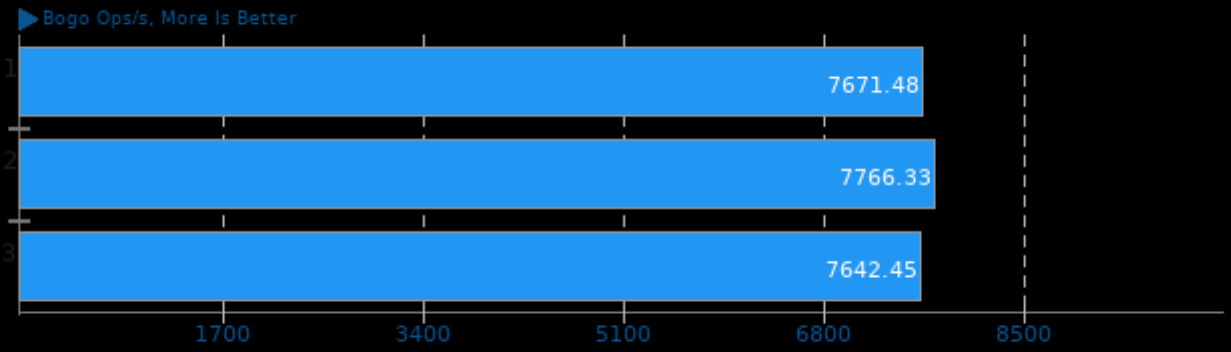
Test: CPU Cache



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

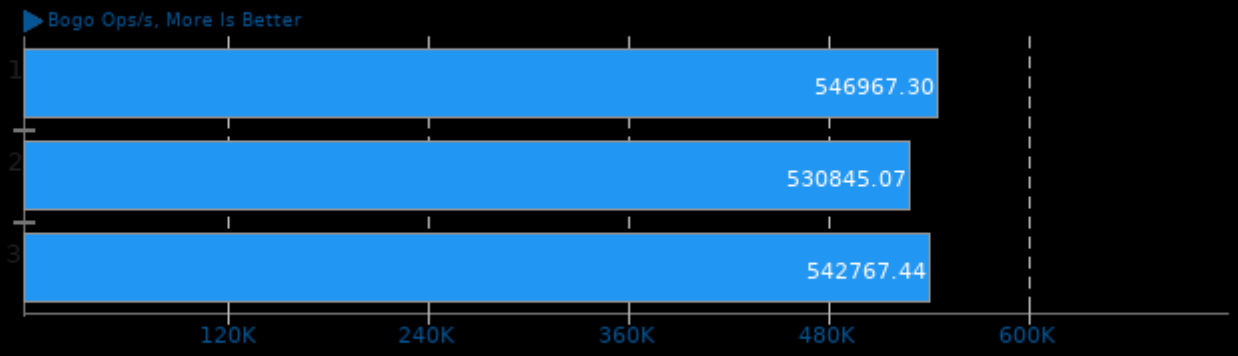
Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

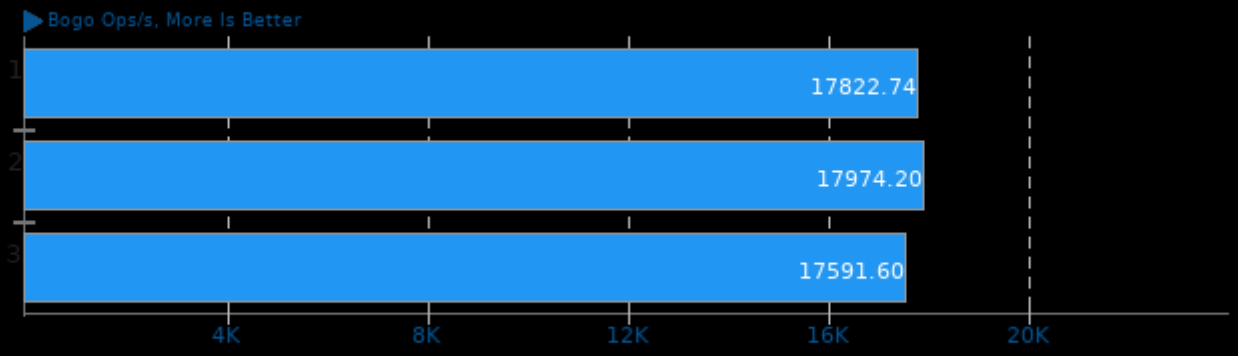
Test: Semaphores



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

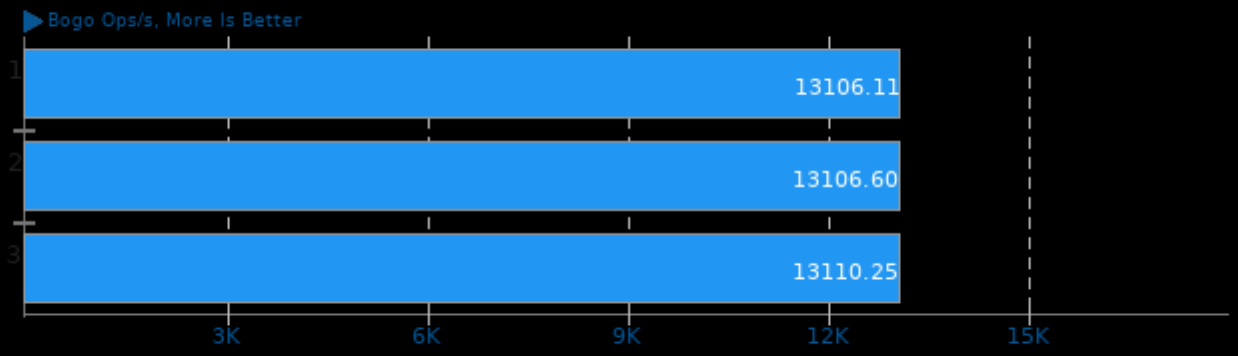
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

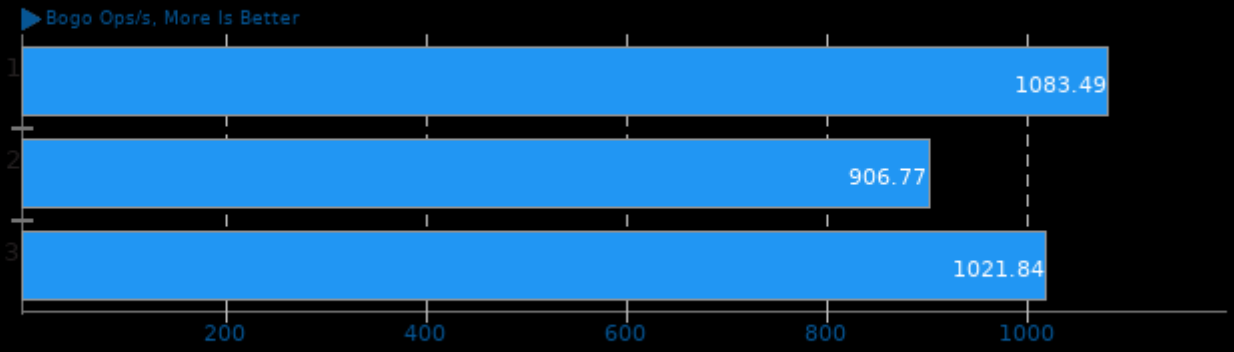
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

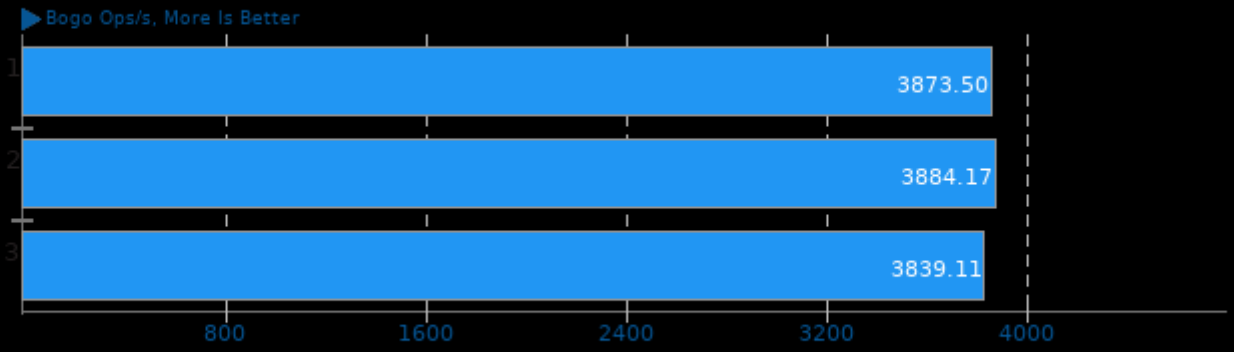
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

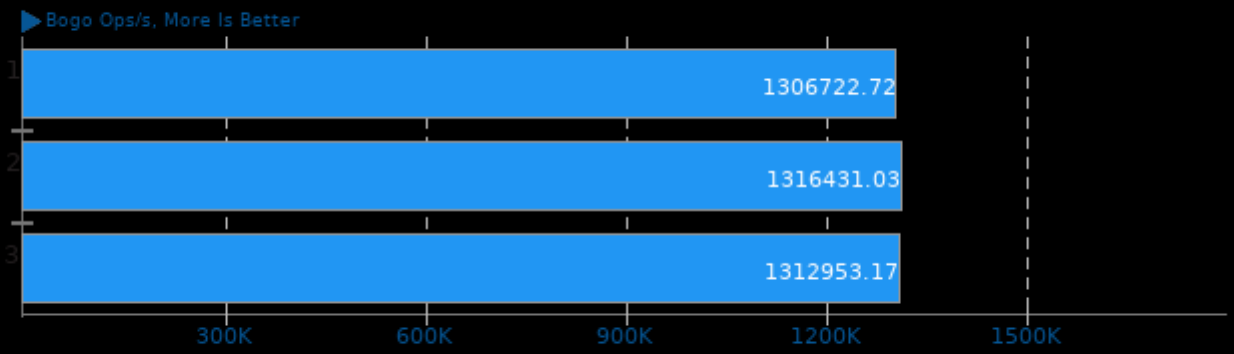
Test: Socket Activity



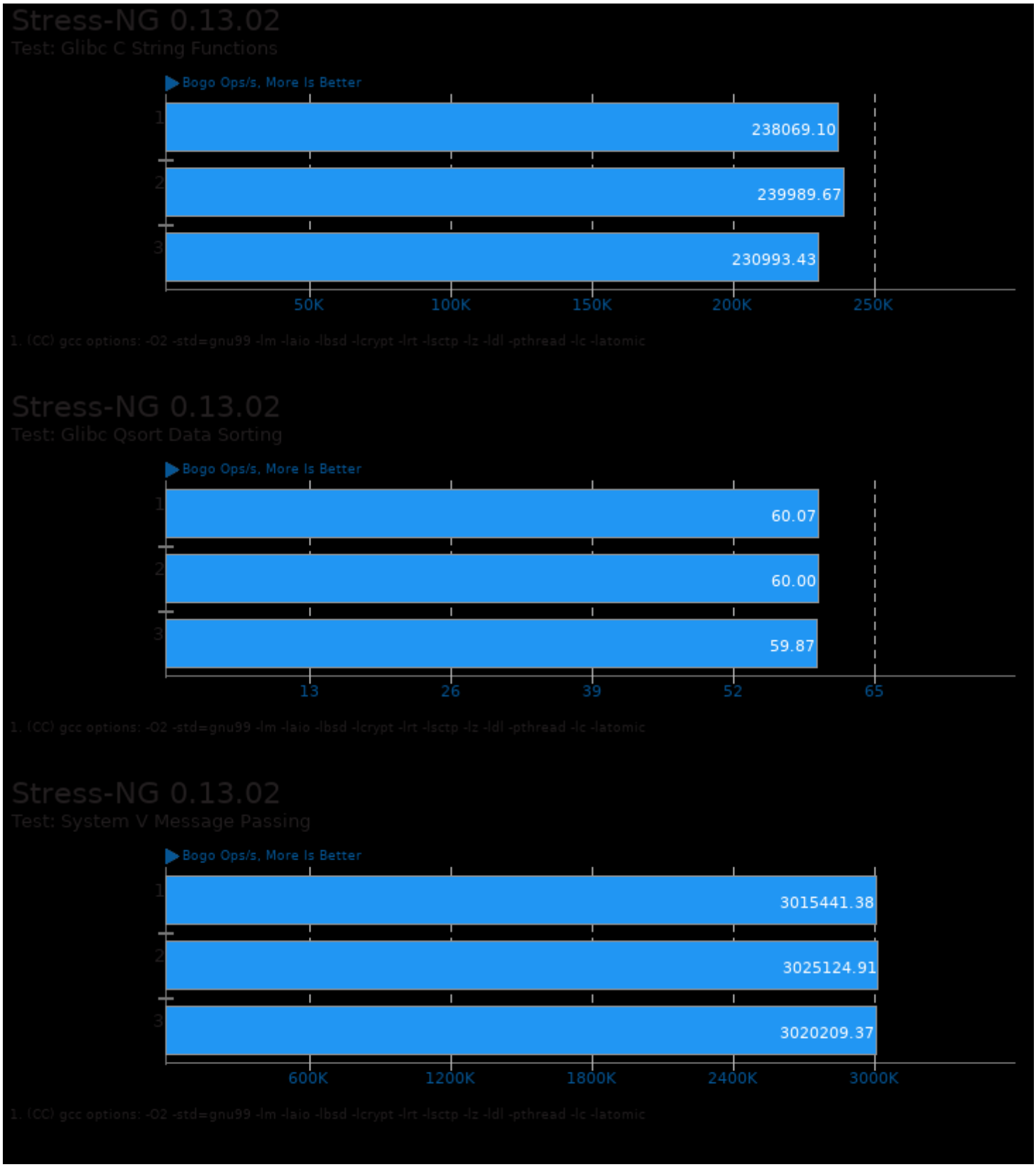
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

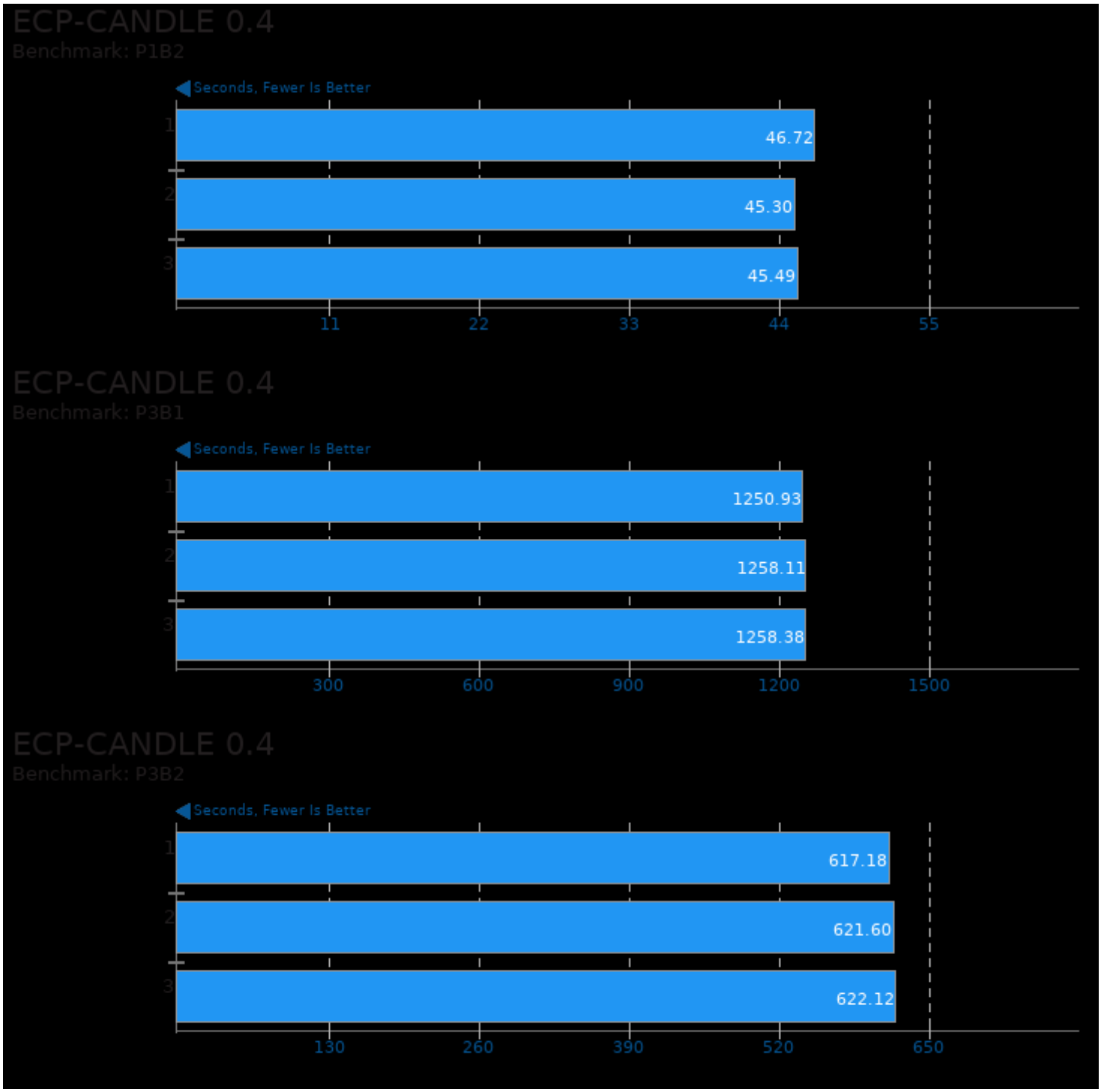
Stress-NG 0.13.02

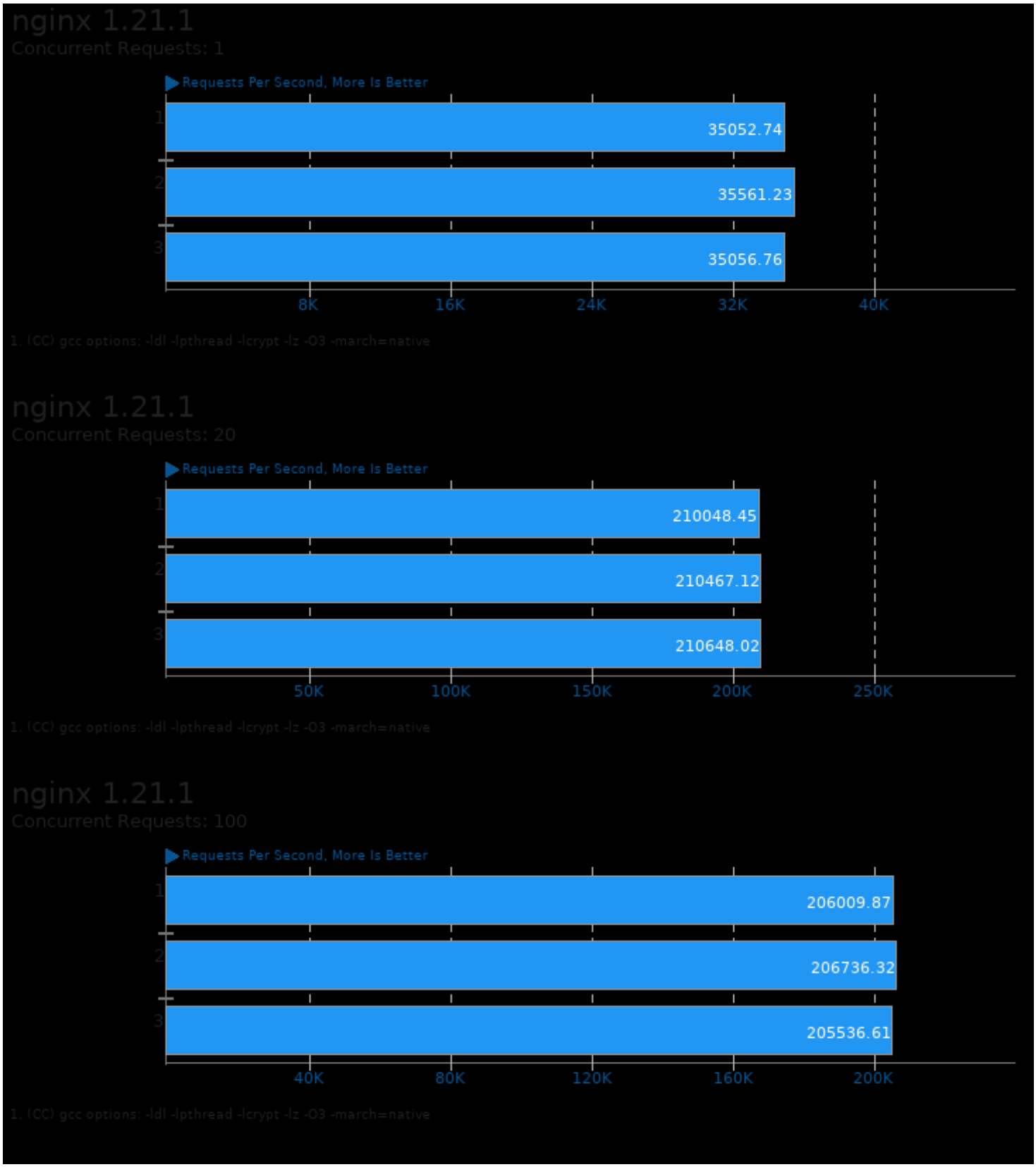
Test: Context Switching

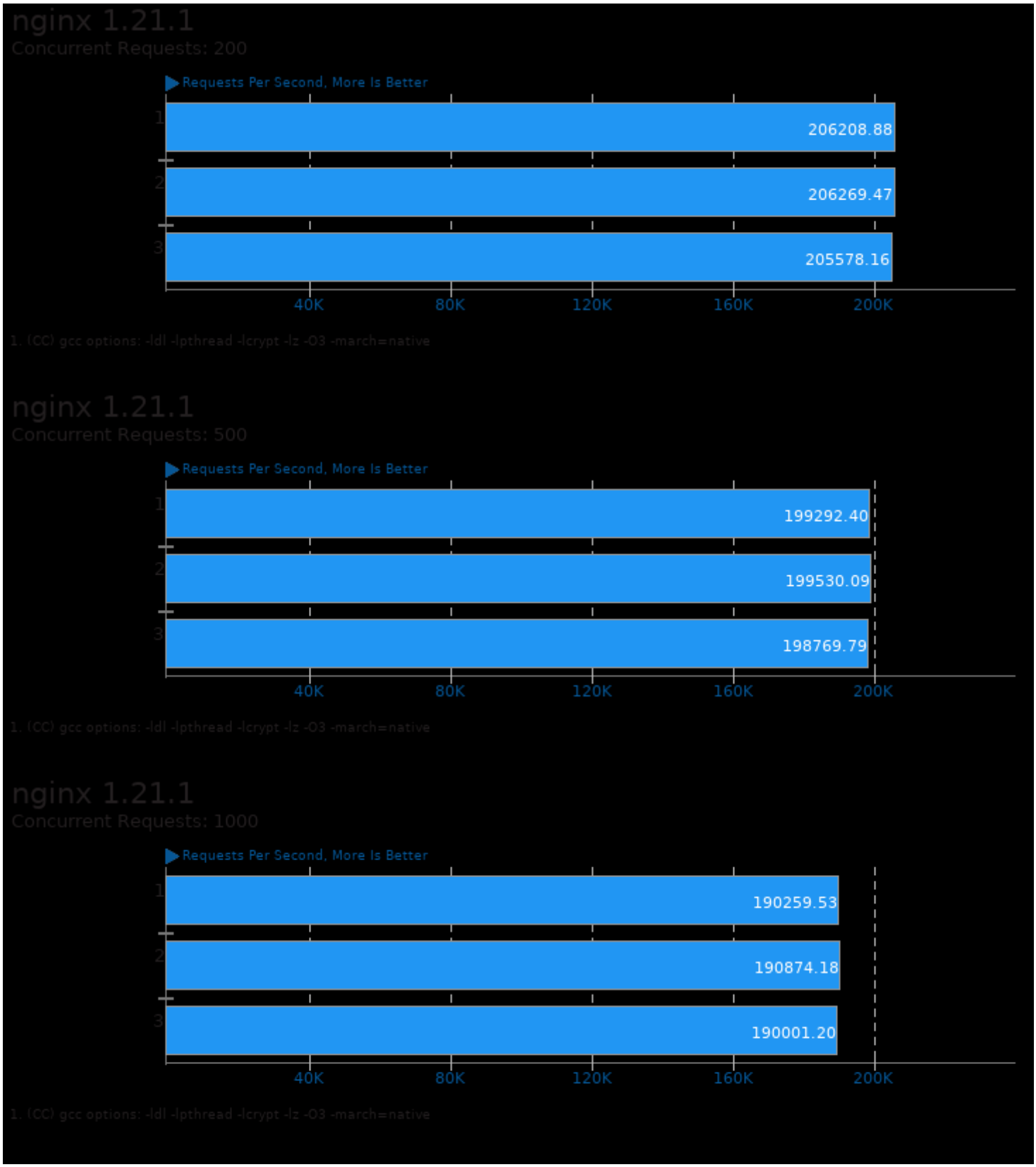


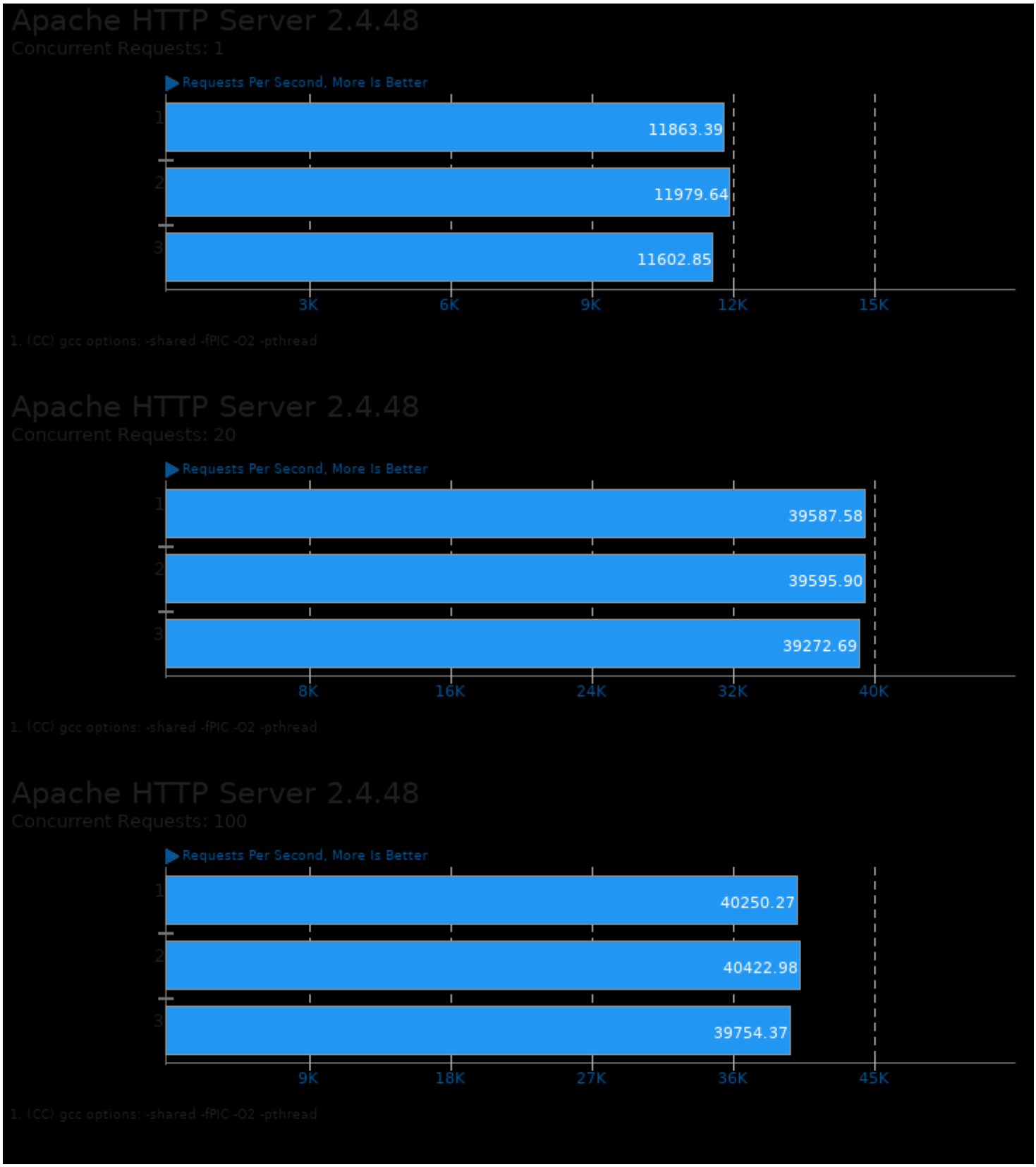
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

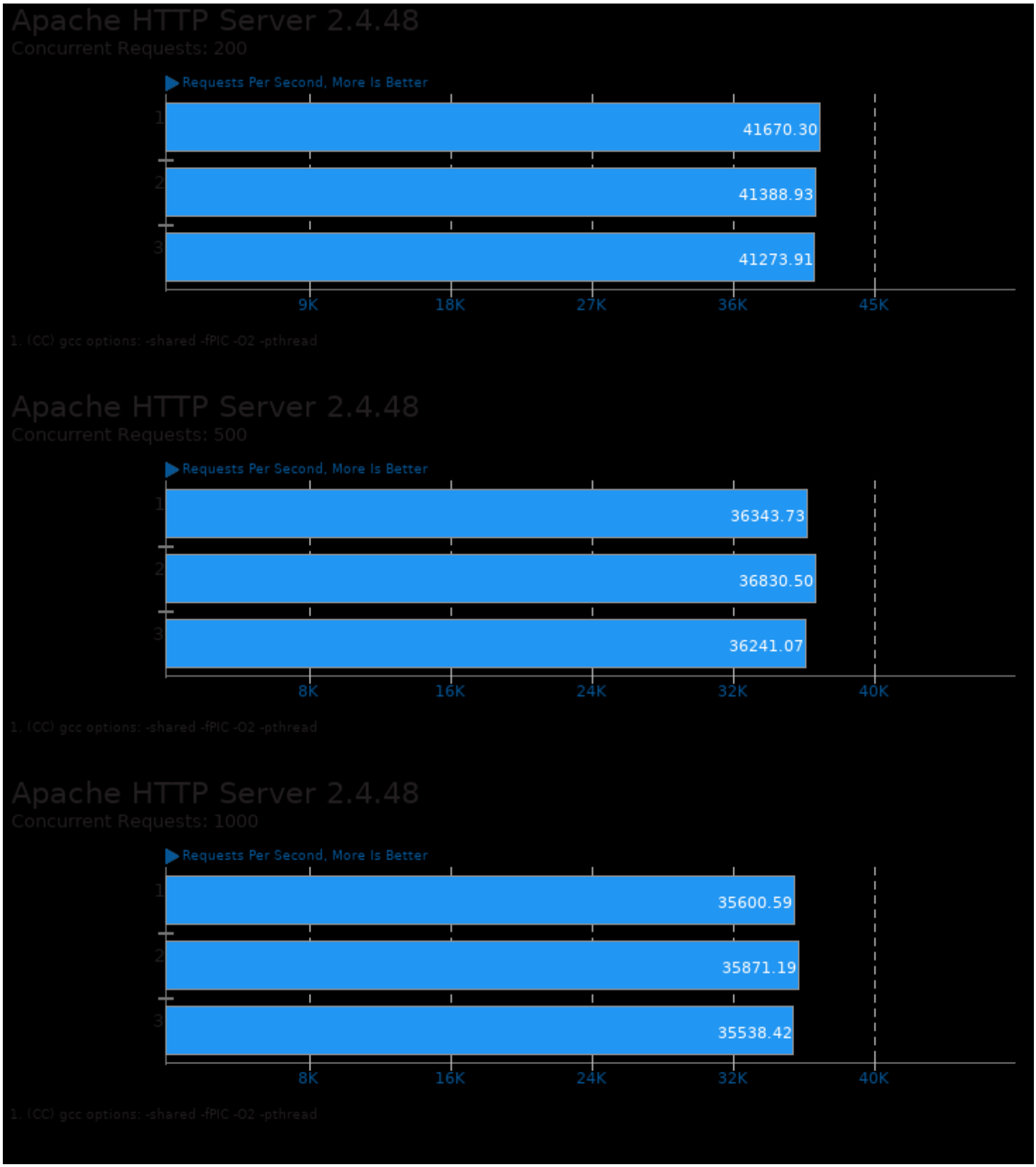

Stress-NG 0.13.02
Test: Glibc C String Functions
Bogo Ops/s, More Is Better
1
238069.10
2
239989.67
3
230993.43
50K
100K
150K
200K
250K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic
Stress-NG 0.13.02
Test: Glibc Qsort Data Sorting
Bogo Ops/s, More Is Better
1
60.07
2
60.00
3
59.87
13
26
39
52
65
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic
Stress-NG 0.13.02
Test: System V Message Passing
Bogo Ops/s, More Is Better
1
3015441.38
2
3025124.91
3
3020209.37
600K
1200K
1800K
2400K
3000K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic


ECP-CANDLE 0.4
Benchmark: P1B2
Seconds, Fewer Is Better
1
2
3
46.72
45.30
45.49
11
22
33
44
55
ECP-CANDLE 0.4
Benchmark: P3B1
Seconds, Fewer Is Better
1
2
3
1250.93
1258.11
1258.38
300
600
900
1200
1500
ECP-CANDLE 0.4
Benchmark: P3B2
Seconds, Fewer Is Better
1
2
3
617.18
621.60
622.12
130
260
390
520
650

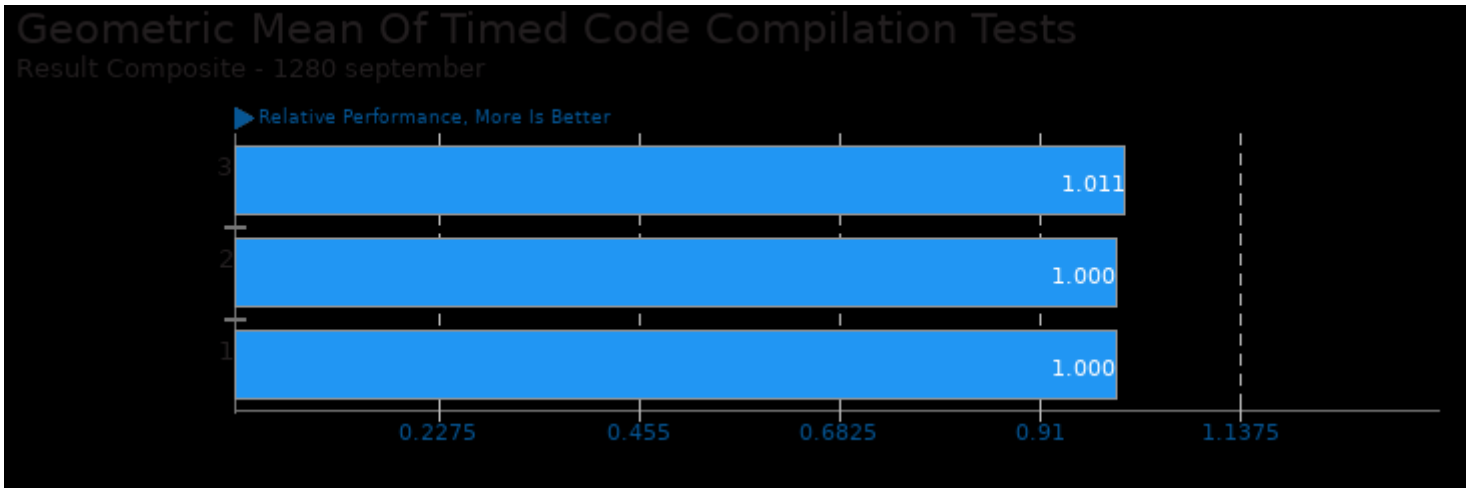

nginx 1.21.1
Concurrent Requests: 1
Requests Per Second, More Is Better
1
2
3
35052.74
35561.23
35056.76
8K
16K
24K
32K
40K
1. (CC) gcc options: -ldl -lpthread -lcrypt -lz -O3 -march=native
nginx 1.21.1
Concurrent Requests: 20
Requests Per Second, More Is Better
1
2
3
210048.45
210467.12
210648.02
50K
100K
150K
200K
250K
1. (CC) gcc options: -ldl -lpthread -lcrypt -lz -O3 -march=native
nginx 1.21.1
Concurrent Requests: 100
Requests Per Second, More Is Better
1
2
3
206009.87
206736.32
205536.61
40K
80K
120K
160K
200K
1. (CC) gcc options: -ldl -lpthread -lcrypt -lz -O3 -march=native


nginx 1.21.1
Concurrent Requests: 200
Requests Per Second, More Is Better
1
206208.88
2
206269.47
3
205578.16
40K
80K
120K
160K
200K
1. (CC) gcc options: -ldl -lpthread -lcrypt -lz -O3 -march=native
nginx 1.21.1
Concurrent Requests: 500
Requests Per Second, More Is Better
1
199292.40
2
199530.09
3
198769.79
40K
80K
120K
160K
200K
1. (CC) gcc options: -ldl -lpthread -lcrypt -lz -O3 -march=native
nginx 1.21.1
Concurrent Requests: 1000
Requests Per Second, More Is Better
1
190259.53
2
190874.18
3
190001.20
40K
80K
120K
160K
200K
1. (CC) gcc options: -ldl -lpthread -lcrypt -lz -O3 -march=native

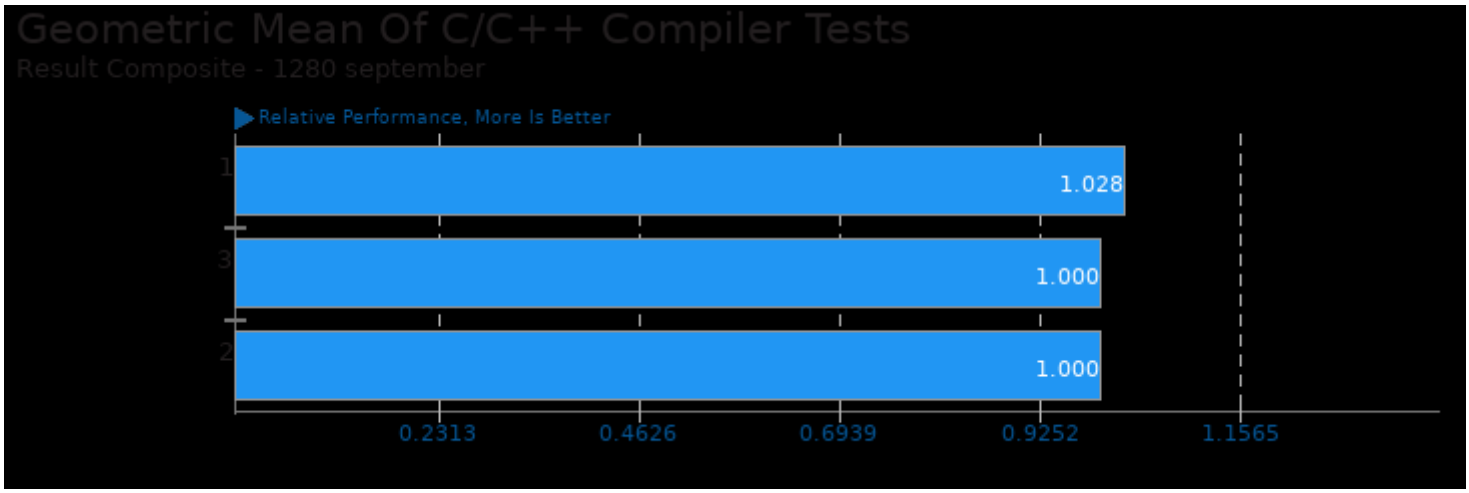

Apache HTTP Server 2.4.48
Concurrent Requests: 1
Requests Per Second, More Is Better
1
2
3
11863.39
11979.64
11602.85
3K
6K
9K
12K
15K
1. (CC) gcc options: -shared -fPIC -O2 -pthread
Apache HTTP Server 2.4.48
Concurrent Requests: 20
Requests Per Second, More Is Better
1
2
3
39587.58
39595.90
39272.69
8K
16K
24K
32K
40K
1. (CC) gcc options: -shared -fPIC -O2 -pthread
Apache HTTP Server 2.4.48
Concurrent Requests: 100
Requests Per Second, More Is Better
1
2
3
40250.27
40422.98
39754.37
9K
18K
27K
36K
45K
1. (CC) gcc options: -shared -fPIC -O2 -pthread


Apache HTTP Server 2.4.48
Concurrent Requests: 200
Requests Per Second, More Is Better
1
2
3
41670.30
41388.93
41273.91
9K
18K
27K
36K
45K
1. (CC) gcc options: -shared -fPIC -O2 -pthread
Apache HTTP Server 2.4.48
Concurrent Requests: 500
Requests Per Second, More Is Better
1
2
3
36343.73
36830.50
36241.07
8K
16K
24K
32K
40K
1. (CC) gcc options: -shared -fPIC -O2 -pthread
Apache HTTP Server 2.4.48
Concurrent Requests: 1000
Requests Per Second, More Is Better
1
2
3
35600.59
35871.19
35538.42
8K
16K
24K
32K
40K
1. (CC) gcc options: -shared -fPIC -O2 -pthread

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



Geometric mean based upon tests: pts/build-linux-kernel, pts/build-gcc and pts/build-llvm



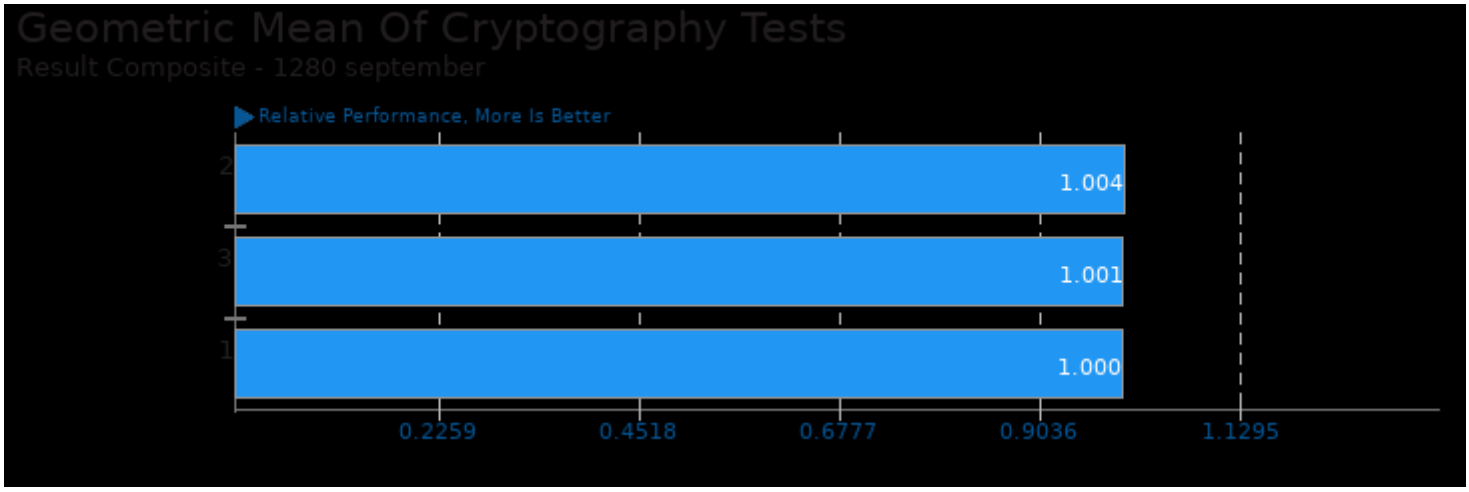
Geometric mean based upon tests: pts/build-llvm, pts/encode-flac, pts/pgbench, pts/apache, pts/dav1d, pts/openssl, pts/nginx, pts/tachyon and pts/keydb



Geometric mean based upon tests: pts/apache, pts/mysqlslap, pts/build-gcc, pts/build-llvm, pts/build-linux-kernel, pts/dav1d, pts/encode-flac, pts/openssl, pts/lczero, pts/nginx, pts/pgbench, pts/stress-ng, pts/tachyon and pts/cpuminer-opt



Geometric mean based upon tests: pts/tachyon, pts/dav1d, pts/encode-flac, pts/jpegxl, pts/jpegxl-decode, pts/openvkl and pts/synthmark

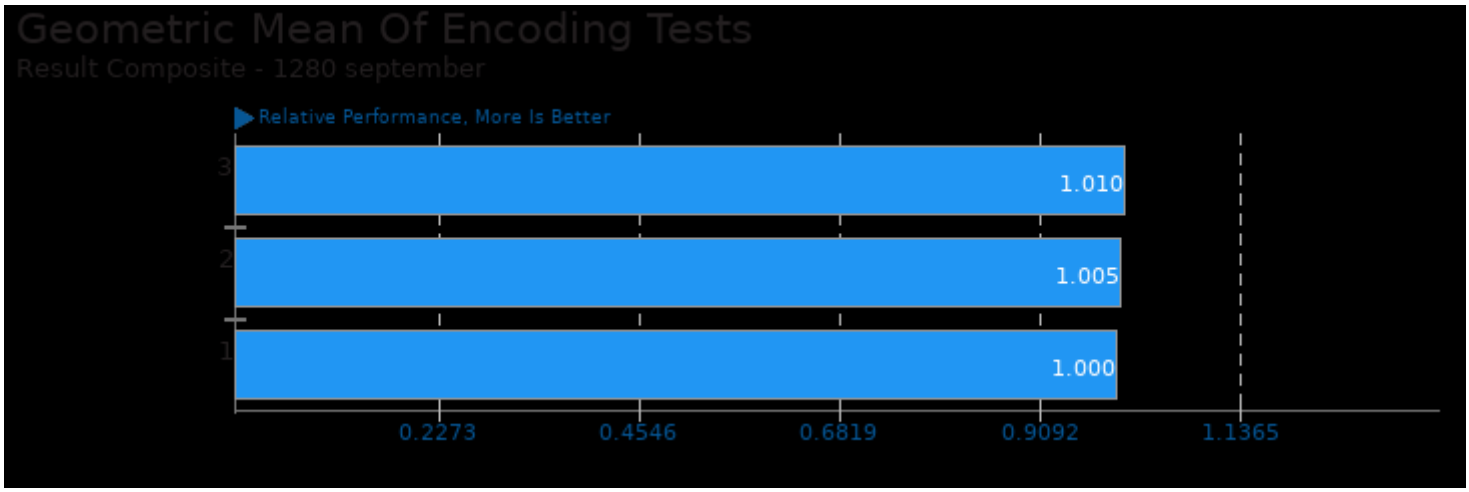


Geometric mean based upon tests: pts/openssl and pts/cpuminer-opt

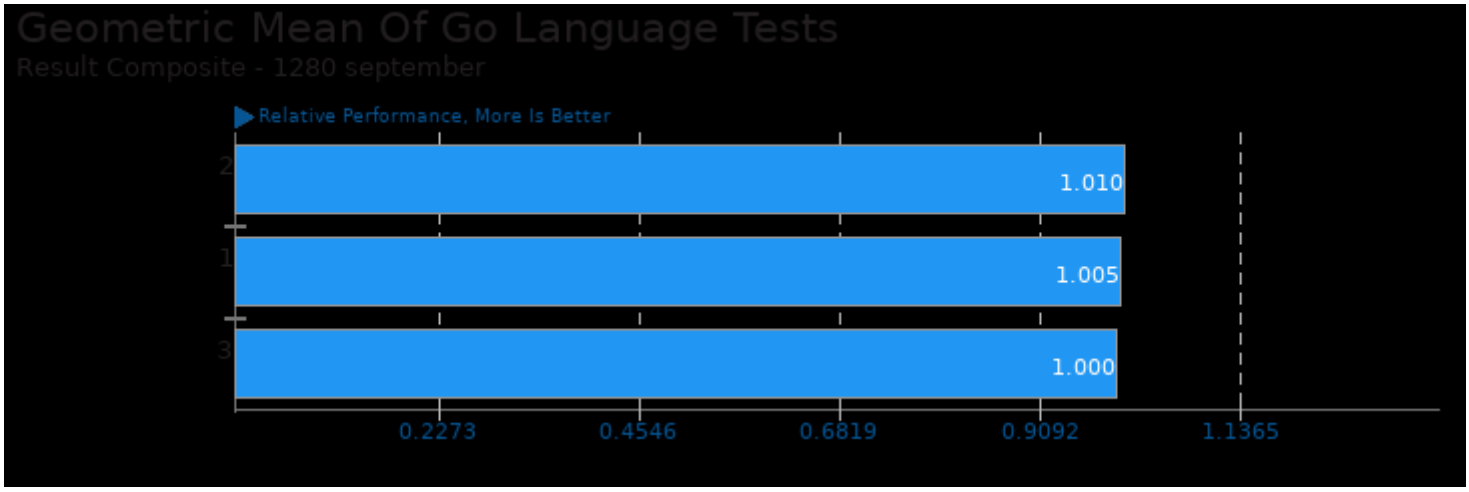


Geometric mean based upon tests: pts/keydb, pts/pgbench and pts/mysqlslap

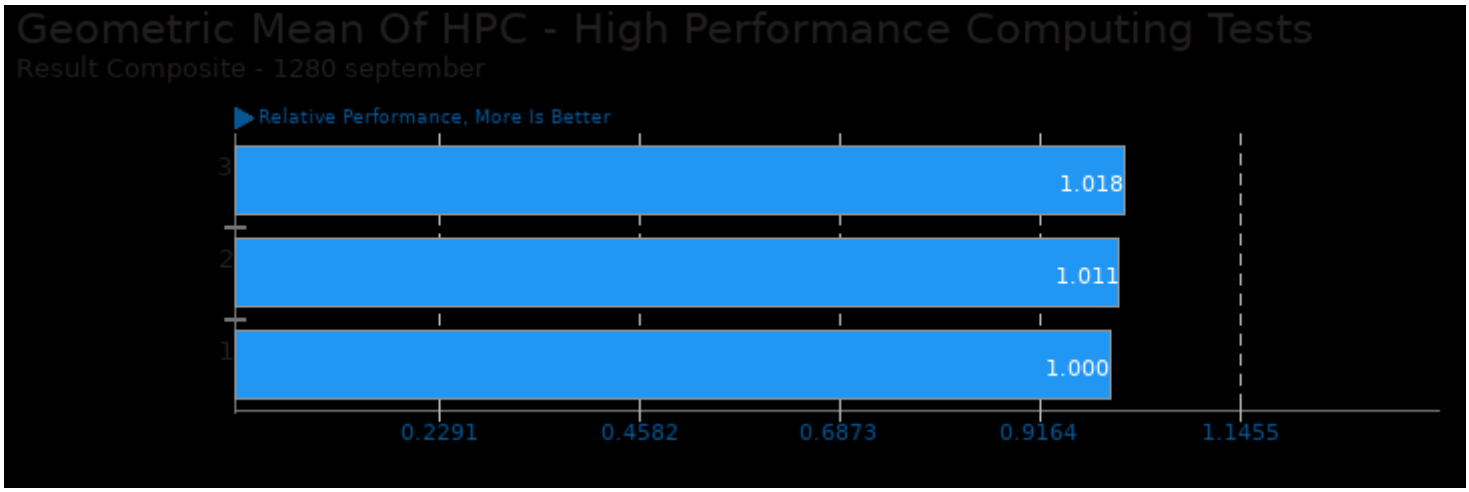
1280 september



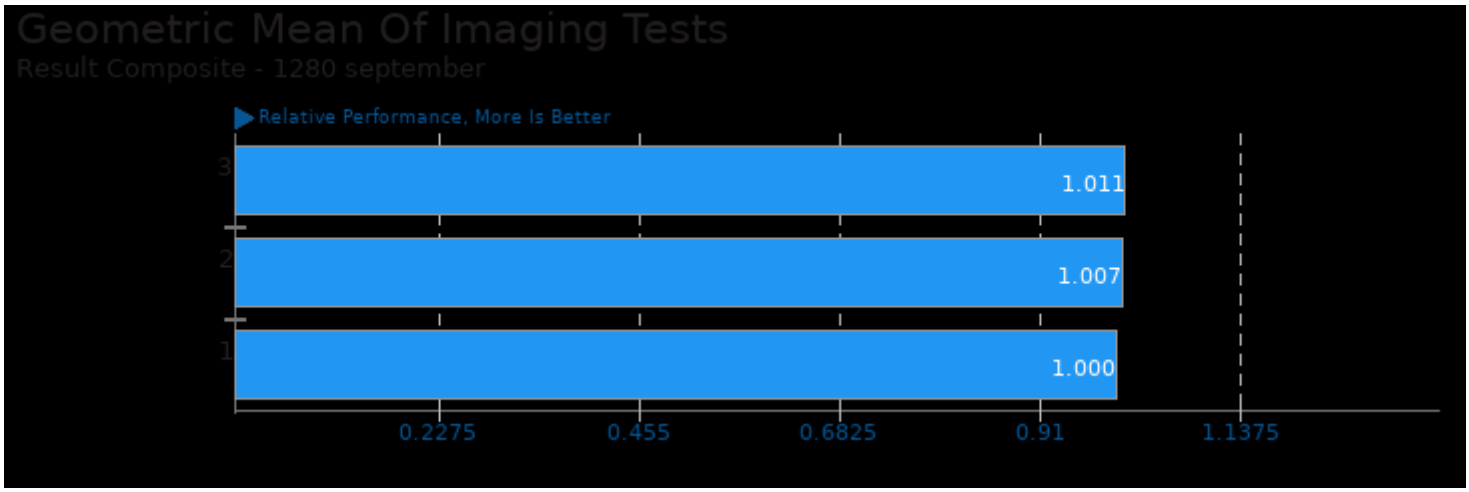
Geometric mean based upon tests: pts/encode-flac and pts/dav1d



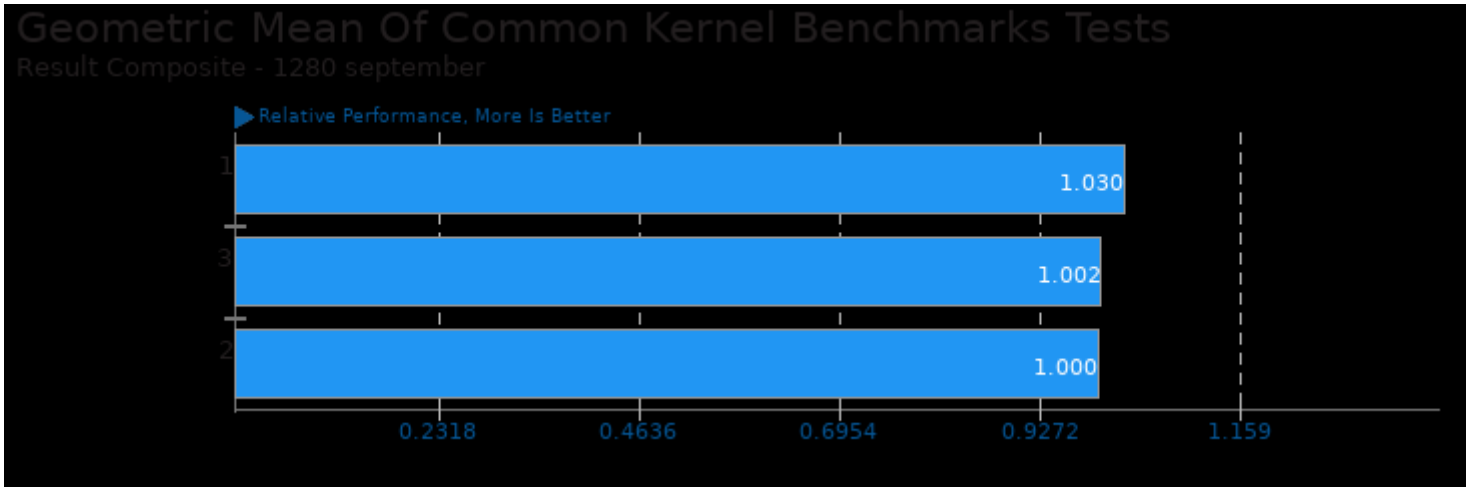
Geometric mean based upon tests: pts/nginx and pts/apache



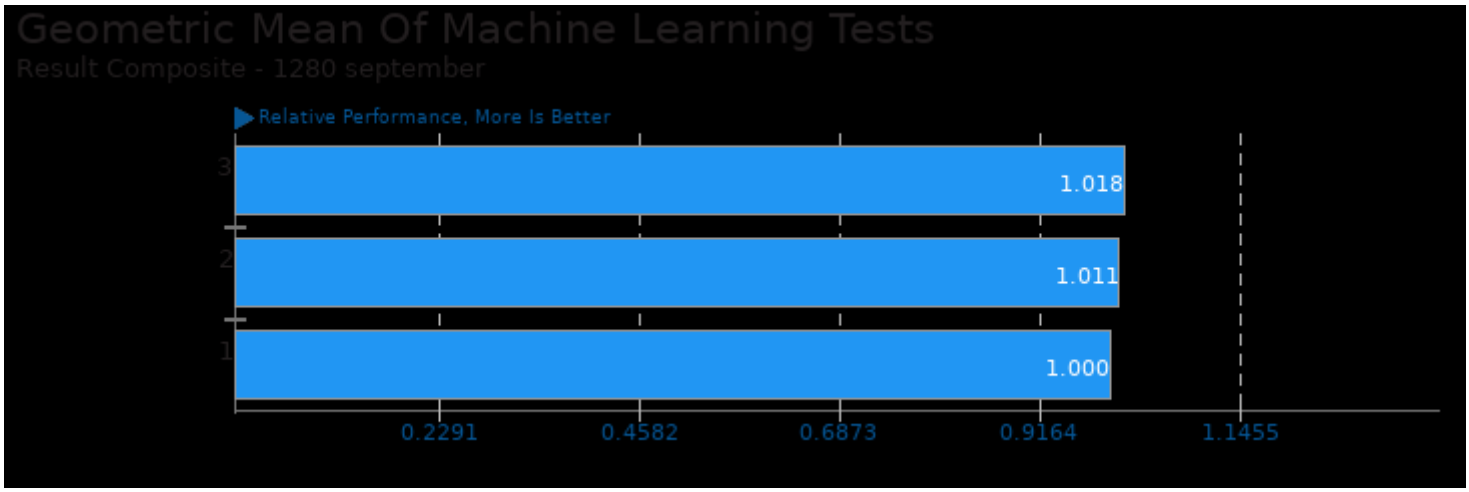
Geometric mean based upon tests: pts/ecp-candle and pts/lczero



Geometric mean based upon tests: pts/jpegxl and pts/jpegxl-decode



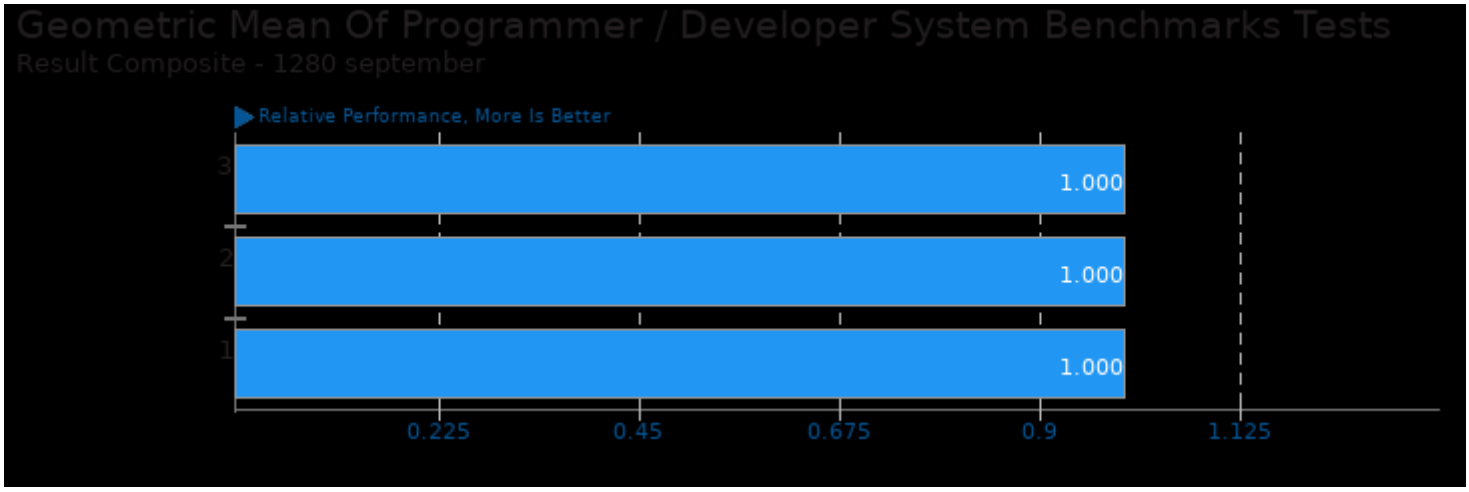
Geometric mean based upon tests: pts/apache, pts/pgbench, pts/openssl and pts/stress-ng



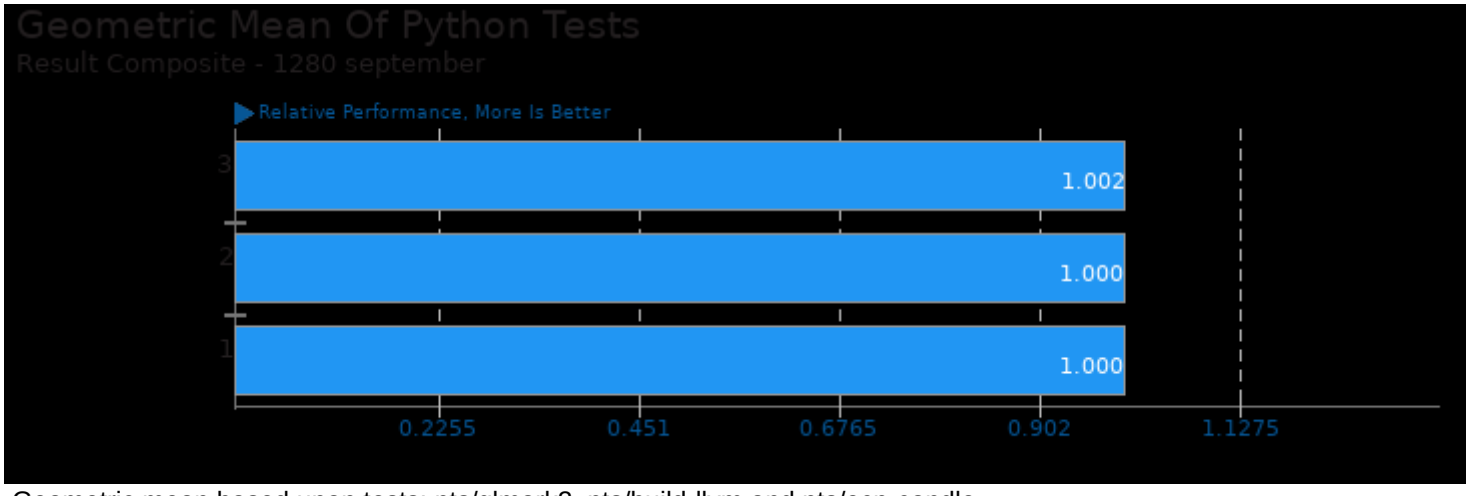
Geometric mean based upon tests: pts/ecp-candle and pts/lczero



Geometric mean based upon tests: pts/cpuminer-opt, pts/tachyon, pts/dav1d, pts/mysqlslap, pts/build-linux-kernel, pts/build-gcc, pts/build-llvm, pts/openvkl and pts/pgbench

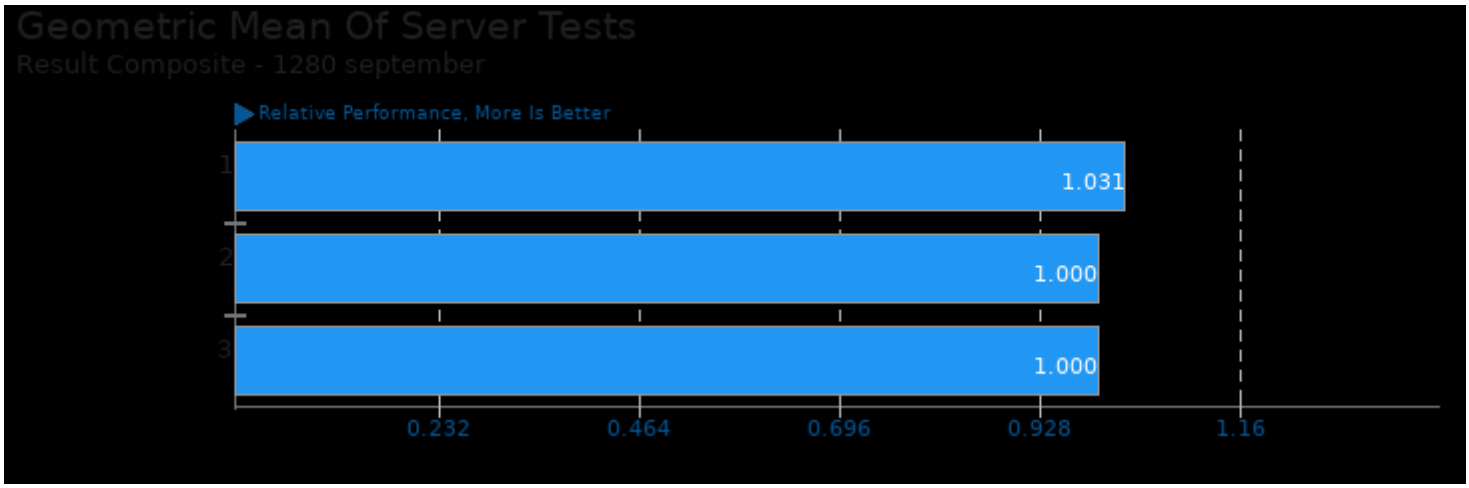


Geometric mean based upon tests: pts/simdjson, pts/build-linux-kernel, pts/build-gcc and pts/build-llvm

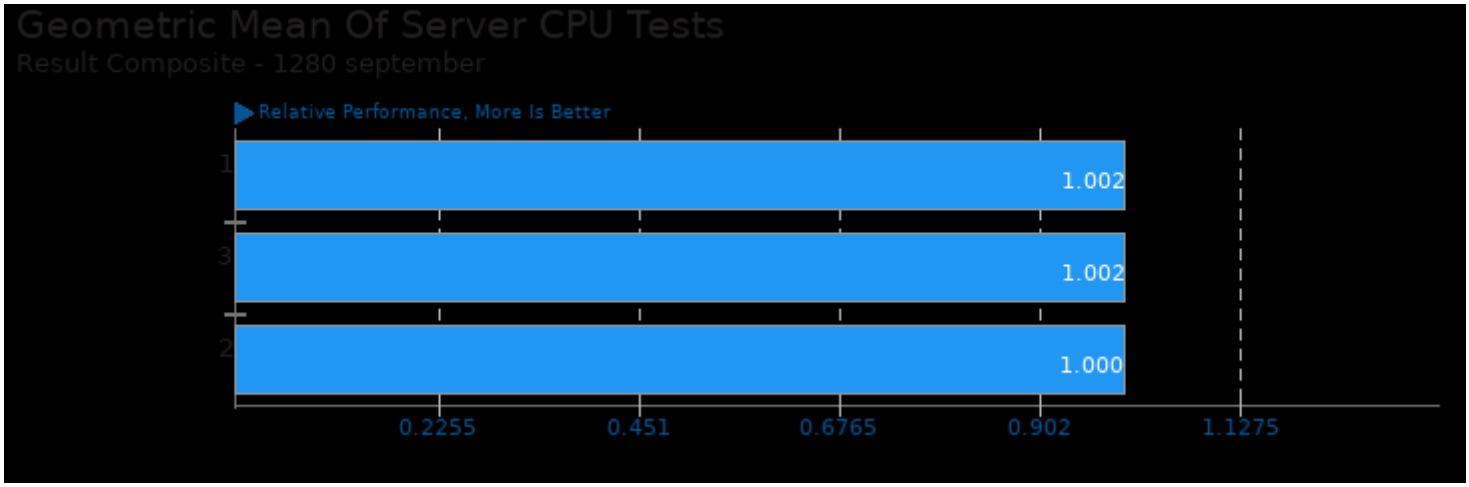


Geometric mean based upon tests: pts/glmark2, pts/build-llvm and pts/ecp-candle

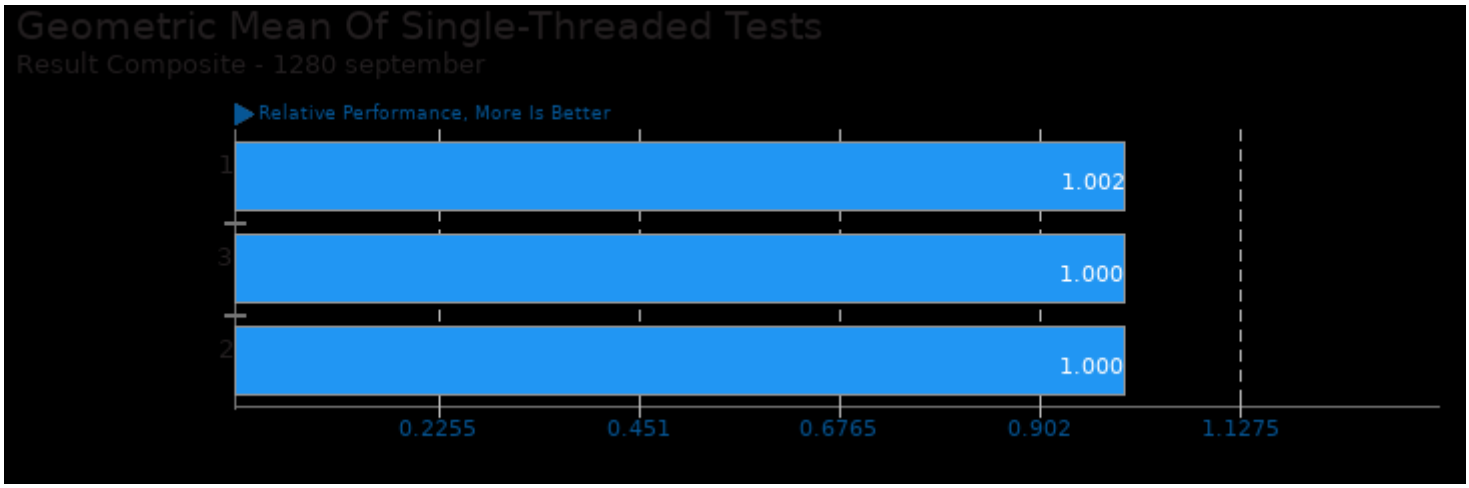
1280 september



Geometric mean based upon tests: pts/apache, pts/nginx, pts/mysqlslap, pts/pgbench, pts/keydb, pts/openssl and pts/simdjson



Geometric mean based upon tests: pts/dav1d, pts/build-gcc, pts/build-linux-kernel, pts/build-llvm, pts/openssl, pts/mysqlslap, pts/stress-ng and pts/cpuminer-opt



Geometric mean based upon tests: pts/encode-flac and pts/nginx

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 12:15.