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2990WX database server

AMD Ryzen Threadripper 2990WX 32-Core testing with a ASUS ROG ZENITH EXTREME (2201 BIOS) and Gigabyte AMD Radeon RX 570 4GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (A) was 1.04x the speed of the slowest (B). C was 0.962x the speed of A and B was 0.999x the speed of C.

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

Redis (Test: LPOP - Parallel Connections: 50) at 1.83x
Redis (Test: LPOP - Parallel Connections: 500) at 1.766x
Redis (Test: GET - Parallel Connections: 50) at 1.198x
NCNN (Target: CPU - Model: mnasnet) at 1.176x
NCNN (Target: CPU - Model: squeezenet_ssd) at 1.168x
NCNN (Target: CPU - Model: efficientnet-b0) at 1.151x
NCNN (Target: CPU - Model: googlenet) at 1.15x
NCNN (Target: CPU-v2-v2 - Model: mobilenet-v2) at 1.14x
NCNN (Target: CPU - Model: mobilenet) at 1.13x

NCNN (Target: CPU - Model: resnet50) at 1.129x.

Test Systems:

A

B

C

Processor: AMD Ryzen Threadripper 2990WX 32-Core @ 3.00GHz (32 Cores / 64 Threads), Motherboard: ASUS ROG ZENITH EXTREME (2201 BIOS), Chipset: AMD 17h, Memory: 64GB, Disk: Samsung SSD 970 EVO 500GB + 250GB Western Digital WDS250G2X0C-00L350, Graphics: Gigabyte AMD Radeon RX 570 4GB (1244/1750MHz), Audio: Realtek ALC1220, Monitor: MX279, Network: Intel I211 + Qualcomm Atheros QCA6174 802.11ac + Wilocity Wil6200 802.11ad

OS: Ubuntu 22.04, Kernel: 5.19.0-051900rc7-generic (x86_64), Desktop: GNOME Shell 42.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.47), Vulkan: 1.2.204, Compiler: GCC 11.2.0, 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-bootstrap --enable-cet --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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-gcn/usr --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x800820d
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Mitigation of untrained return thunk; SMT vulnerable + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C
ClickHouse - 1.R.W.A.D.F.R.C.C (Queries/min, Geo Mean)	**90.72**	**93.30**	92.22
Normalized	97.23%	100%	98.84%
ClickHouse - 1.R.W.A.D.S.R (Queries/min, Geo Mean)	98.05	**97.28**	**98.97**
Normalized	99.07%	98.29%	100%
ClickHouse - 1.R.W.A.D.T.R (Queries/min, Geo Mean)	**100.65**	94.91	**92.74**
Normalized	100%	94.3%	92.14%
Dragonflydb - 50 - 1:1 (Ops/sec)	2284274	**2306605**	**2202428**
Normalized	99.03%	100%	95.48%
Dragonflydb - 50 - 1:5 (Ops/sec)	**2445624**	2435333	**2353556**

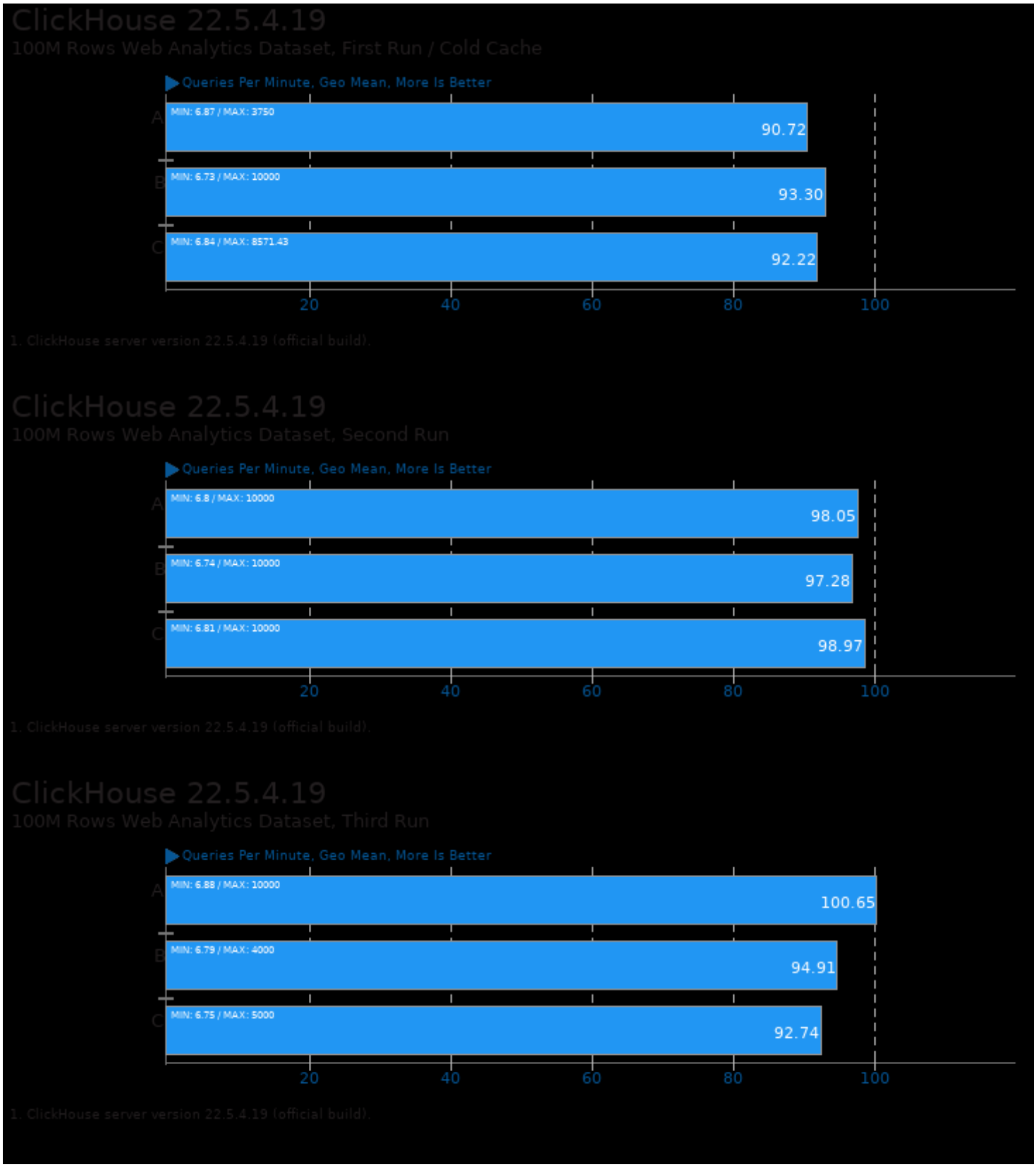
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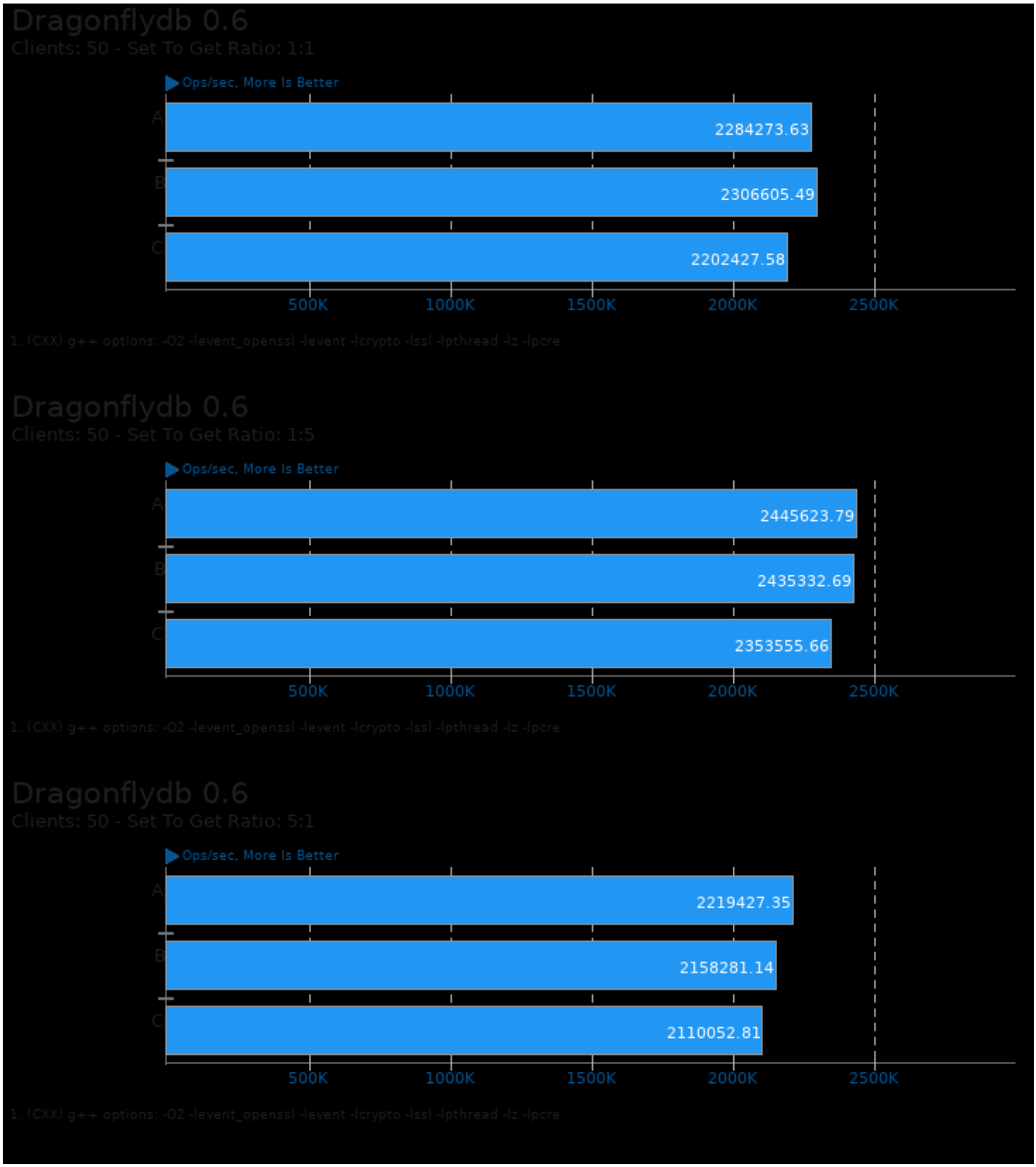
Normalized	100%	99.58%	96.24%
Dragonflydb - 50 - 5:1 (Ops/sec)	**2219427**	2158281	**2110053**
Normalized	100%	97.24%	95.07%
Dragonflydb - 200 - 1:1 (Ops/sec)	**2055617**	2003895	**1870943**
Normalized	100%	97.48%	91.02%
Dragonflydb - 200 - 1:5 (Ops/sec)	**2156719**	2146995	**2019120**
Normalized	100%	99.55%	93.62%
Dragonflydb - 200 - 5:1 (Ops/sec)	**1955362**	1884886	**1826174**
Normalized	100%	96.4%	93.39%
Memcached - 1:1 (Ops/sec)	**1037337**	**1030473**	1033081
Normalized	100%	99.34%	99.59%
Memcached - 1:5 (Ops/sec)	**2570638**	**2548418**	2550091
Normalized	100%	99.14%	99.2%
Memcached - 5:1 (Ops/sec)	644155	**644652**	**642412**
Normalized	99.92%	100%	99.65%
Redis - GET - 50 (Reqs/sec)	**2187936**	**1825583**	1919199
Normalized	100%	83.44%	87.72%
Redis - SET - 50 (Reqs/sec)	1499547	**1549263**	**1495019**
Normalized	96.79%	100%	96.5%
Redis - GET - 500 (Reqs/sec)	**1556836**	1555286	**1477262**
Normalized	100%	99.9%	94.89%
Redis - LPOP - 50 (Reqs/sec)	**2213213**	**1209533**	1282074
Normalized	100%	54.65%	57.93%
Redis - SADD - 50 (Reqs/sec)	1767995	**1774372**	**1733915**
Normalized	99.64%	100%	97.72%
Redis - SET - 500 (Reqs/sec)	1211497	**1172987**	**1227980**
Normalized	98.66%	95.52%	100%
Redis - GET - 1000 (Reqs/sec)	**1531503**	**1559619**	1543749
Normalized	98.2%	100%	98.98%
Redis - LPOP - 500 (Reqs/sec)	**1783326**	**1009650**	1014114
Normalized	100%	56.62%	56.87%
Redis - LPUSH - 50 (Reqs/sec)	**1291969**	1289713	**1264192**
Normalized	100%	99.83%	97.85%
Redis - SADD - 500 (Reqs/sec)	**1418103**	**1389523**	1410900
Normalized	100%	97.98%	99.49%
Redis - SET - 1000 (Reqs/sec)	**1204422**	**1243017**	1219728
Normalized	96.9%	100%	98.13%
Redis - LPOP - 1000 (Reqs/sec)	**983846**	1017214	**1021839**
Normalized	96.28%	99.55%	100%
Redis - LPUSH - 500 (Reqs/sec)	1071762	**1058242**	**1075678**
Normalized	99.64%	98.38%	100%
Redis - SADD - 1000 (Reqs/sec)	**1352444**	**1363047**	1357475
Normalized	99.22%	100%	99.59%
Redis - LPUSH - 1000 (Reqs/sec)	**1047211**	**1050054**	1047417
Normalized	99.73%	100%	99.75%
memtier_benchmark - Redis - 50 - 1:1 (Ops/sec)	**1234131**	**1145101**	1157402
Normalized	100%	92.79%	93.78%
memtier_benchmark - Redis - 50 - 1:5 (Ops/sec)	**1306573**	**1267278**	1285075
Normalized	100%	96.99%	98.35%

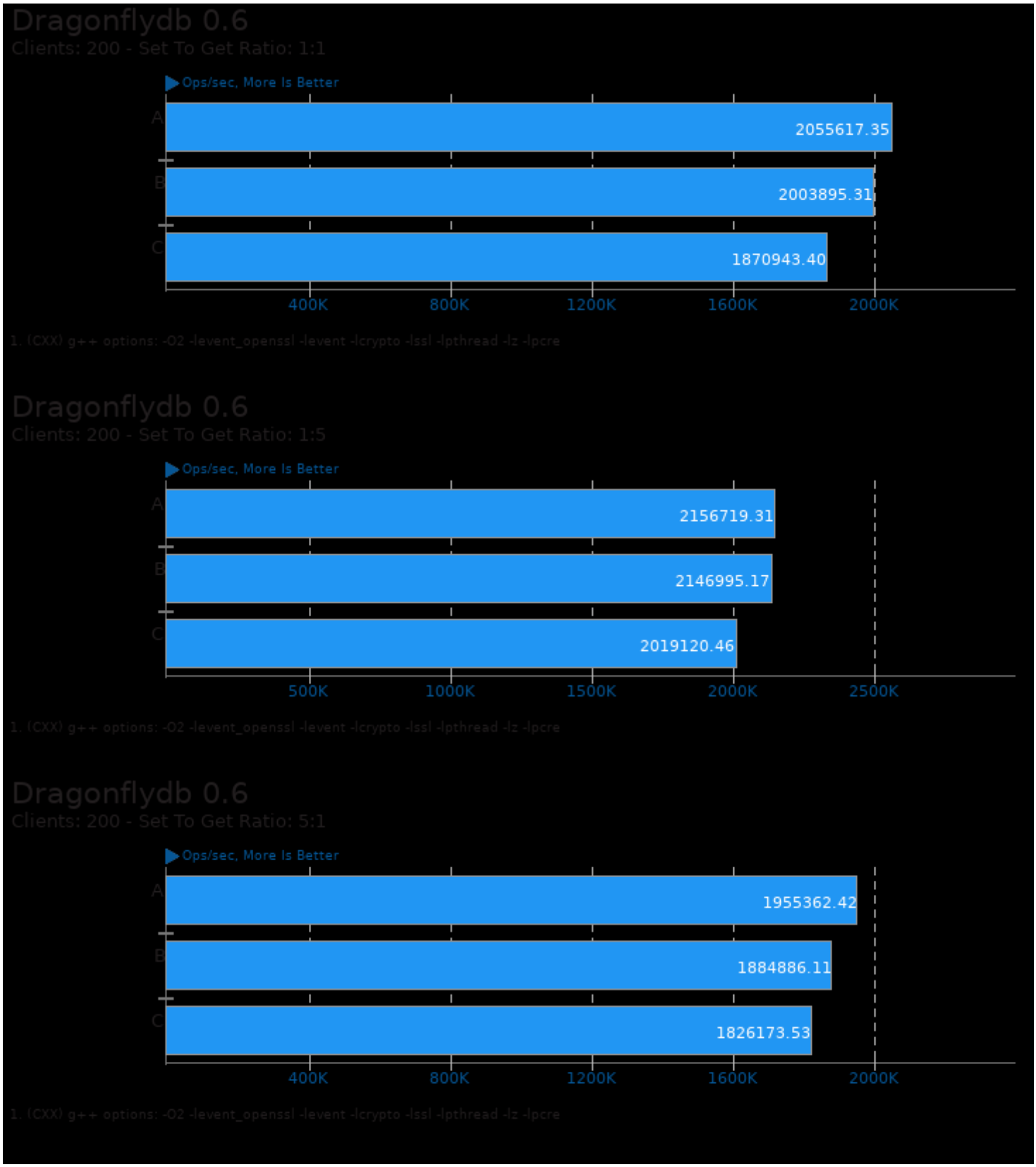
memtier_benchmark - Redis - 50 - 5:1 (Ops/sec)	1145551	1119616	1139123
Normalized	100%	97.74%	99.44%
memtier_benchmark - Redis - 100 - 1:1 (Ops/sec)	1138018	1130567	1163269
Normalized	97.83%	97.19%	100%
memtier_benchmark - Redis - 100 - 1:5 (Ops/sec)	1292594	1327114	1284285
Normalized	97.4%	100%	96.77%
memtier_benchmark - Redis - 100 - 5:1 (Ops/sec)	1086551	1101519	1172222
Normalized	92.69%	93.97%	100%
memtier_benchmark - Redis - 50 - 1:10 (Ops/sec)	1277635	1286421	1323703
Normalized	96.52%	97.18%	100%
memtier_benchmark - Redis - 100 - 1:10 (Ops/sec)	1280735	1258862	1317668
Normalized	97.2%	95.54%	100%
Mobile Neural Network - mobilenetV3 (ms)	3.798	3.701	3.626
Normalized	95.47%	97.97%	100%
Mobile Neural Network - squeezenetv1.1	6.504	6.28	6.409
Normalized	96.56%	100%	97.99%
Mobile Neural Network - resnet-v2-50 (ms)	37.34	36.959	36.767
Normalized	98.47%	99.48%	100%
Mobile Neural Network - SqueezeNetV1.0	10.088	10.054	9.913
Normalized	98.27%	98.6%	100%
Mobile Neural Network - MobileNetV2_224	6.811	6.608	6.76
Normalized	97.02%	100%	97.75%
Mobile Neural Network - mobilenet-v1-1.0	4.864	4.634	4.889
Normalized	95.27%	100%	94.78%
Mobile Neural Network - inception-v3 (ms)	41.781	40.735	43.609
Normalized	97.5%	100%	93.41%
NCNN - CPU - mobilenet (ms)	31.09	35.12	31.94
Normalized	100%	88.53%	97.34%
NCNN - CPU-v2-v2 - mobilenet-v2 (ms)	14.81	16.89	15.22
Normalized	100%	87.69%	97.31%
NCNN - CPU-v3-v3 - mobilenet-v3 (ms)	13.76	15.49	14.8
Normalized	100%	88.83%	92.97%
NCNN - CPU - shufflenet-v2 (ms)	15.54	16.2	17.42
Normalized	100%	95.93%	89.21%
NCNN - CPU - mnasnet (ms)	13.1	15.4	14.34
Normalized	100%	85.06%	91.35%
NCNN - CPU - efficientnet-b0 (ms)	18.5	21.29	20.35
Normalized	100%	86.9%	90.91%
NCNN - CPU - blazeface (ms)	7.43	7.85	8.14
Normalized	100%	94.65%	91.28%
NCNN - CPU - googlenet (ms)	31.93	36.12	36.73
Normalized	100%	88.4%	86.93%
NCNN - CPU - vgg16 (ms)	85.61	87.58	83.51
Normalized	97.55%	95.35%	100%
NCNN - CPU - resnet18 (ms)	25.81	25.94	26.44
Normalized	100%	99.5%	97.62%

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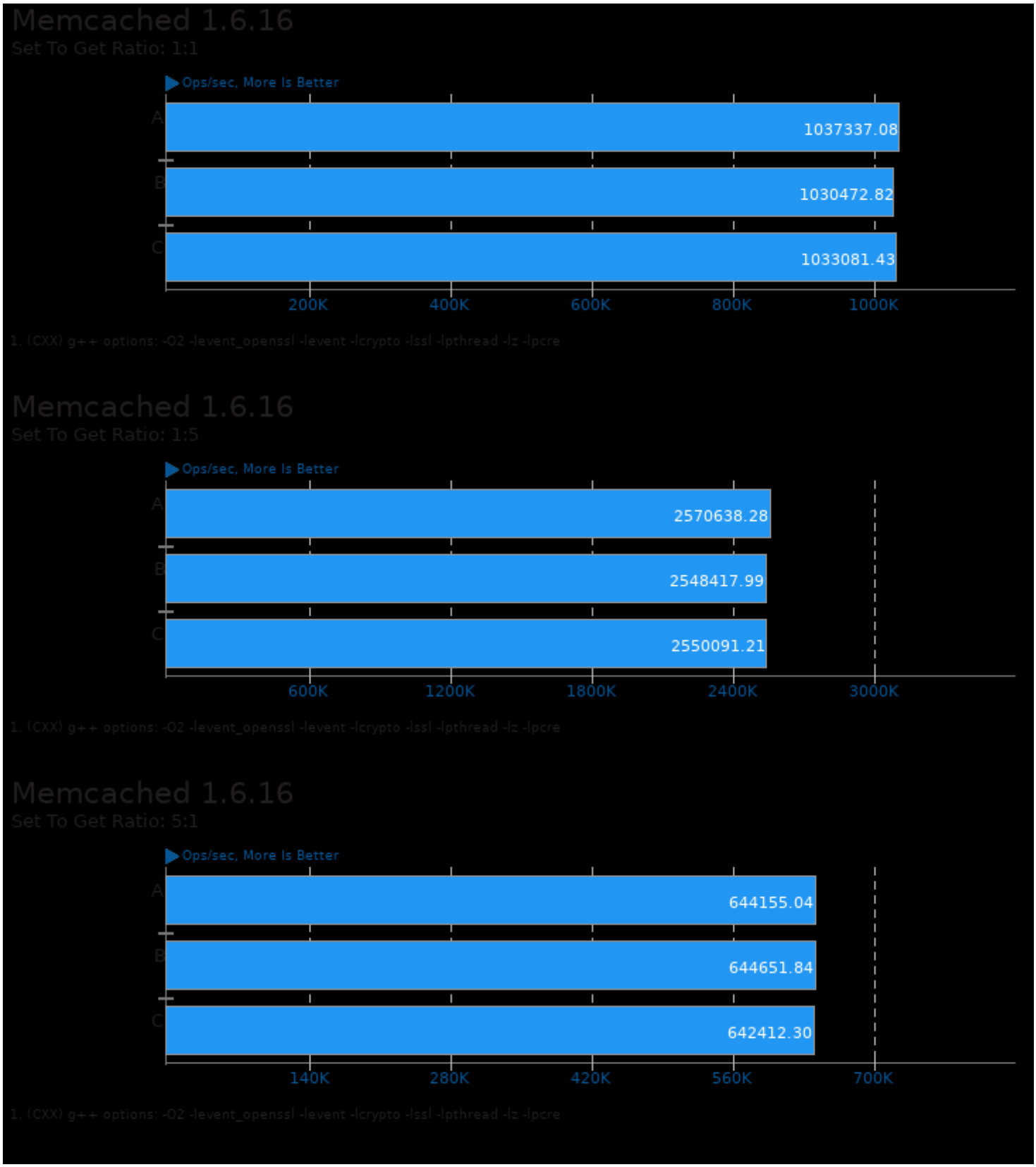
NCNN - CPU - alexnet (ms)	**18.92**	19.17	**20.24**
Normalized	100%	98.7%	93.48%
NCNN - CPU - resnet50 (ms)	**51.63**	46.21	**45.73**
Normalized	88.57%	98.96%	100%
NCNN - CPU - yolov4-tiny (ms)	**46.57**	**48.23**	46.7
Normalized	100%	96.56%	99.72%
NCNN - CPU - squeezenet_ssd (ms)	**38.39**	**44.85**	41.12
Normalized	100%	85.6%	93.36%
NCNN - CPU - regnety_400m (ms)	**59.22**	63.04	**65.87**
Normalized	100%	93.94%	89.9%
NCNN - CPU - vision_transformer (ms)	**233.22**	**218.86**	219.73
Normalized	93.84%	100%	99.6%
NCNN - CPU - FastestDet (ms)	**20.81**	**20.1**	20.54
Normalized	96.59%	100%	97.86%


ClickHouse 22.5.4.19
100M Rows Web Analytics Dataset, First Run / Cold Cache
Queries Per Minute, Geo Mean, More Is Better
A
MIN: 6.87 / MAX: 3750
90.72
B
MIN: 6.73 / MAX: 10000
93.30
C
MIN: 6.84 / MAX: 8571.43
92.22
20
40
60
80
100
1. ClickHouse server version 22.5.4.19 (official build).
ClickHouse 22.5.4.19
100M Rows Web Analytics Dataset, Second Run
Queries Per Minute, Geo Mean, More Is Better
A
MIN: 6.8 / MAX: 10000
98.05
B
MIN: 6.74 / MAX: 10000
97.28
C
MIN: 6.81 / MAX: 10000
98.97
20
40
60
80
100
1. ClickHouse server version 22.5.4.19 (official build).
ClickHouse 22.5.4.19
100M Rows Web Analytics Dataset, Third Run
Queries Per Minute, Geo Mean, More Is Better
A
MIN: 6.88 / MAX: 10000
100.65
B
MIN: 6.79 / MAX: 4000
94.91
C
MIN: 6.75 / MAX: 5000
92.74
20
40
60
80
100
1. ClickHouse server version 22.5.4.19 (official build).

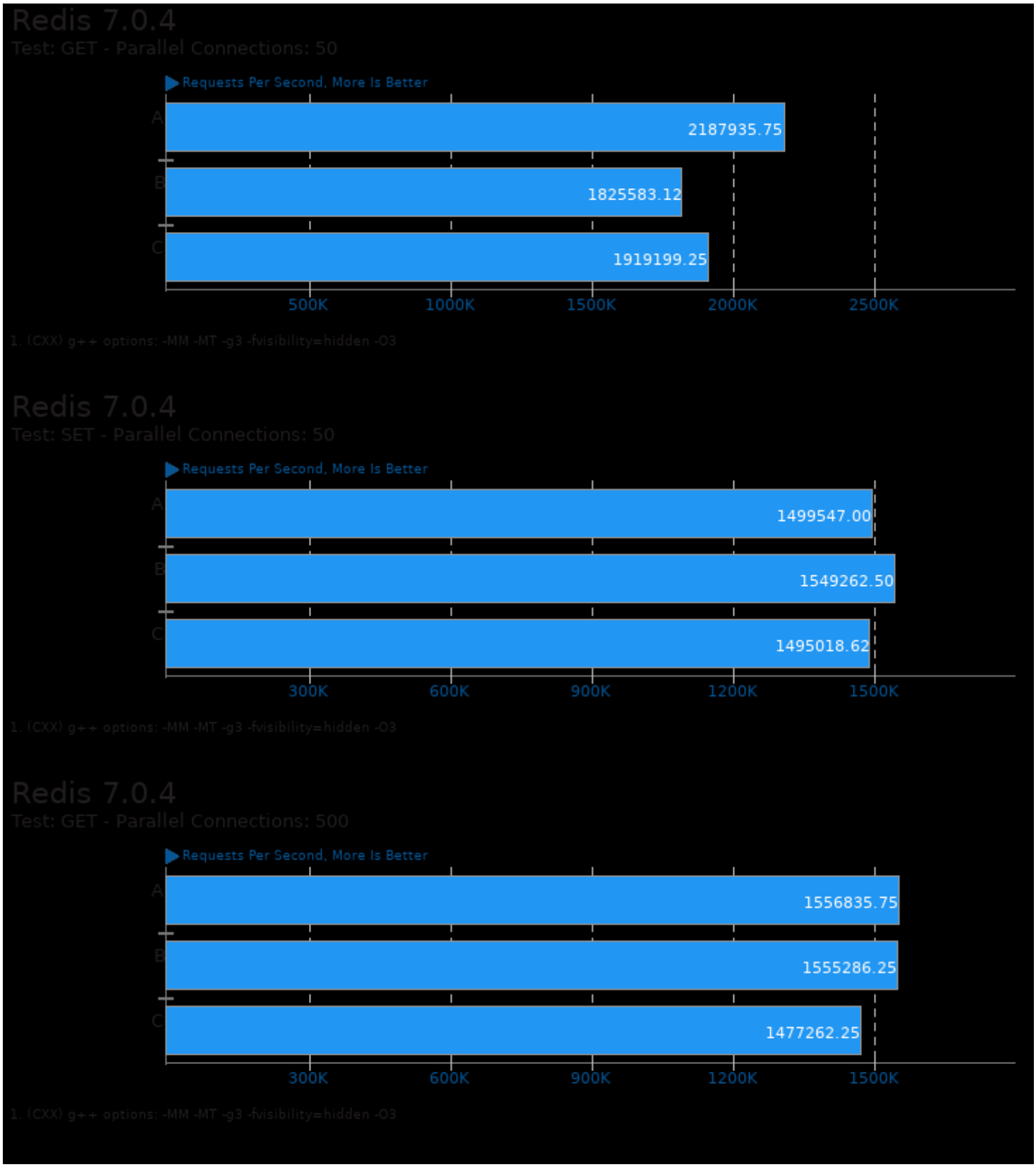

Dragonflydb 0.6
Clients: 50 - Set To Get Ratio: 1:1
Ops/sec, More Is Better
A
2284273.63
B
2306605.49
C
2202427.58
500K
1000K
1500K
2000K
2500K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre
Dragonflydb 0.6
Clients: 50 - Set To Get Ratio: 1:5
Ops/sec, More Is Better
A
2445623.79
B
2435332.69
C
2353555.66
500K
1000K
1500K
2000K
2500K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre
Dragonflydb 0.6
Clients: 50 - Set To Get Ratio: 5:1
Ops/sec, More Is Better
A
2219427.35
B
2158281.14
C
2110052.81
500K
1000K
1500K
2000K
2500K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

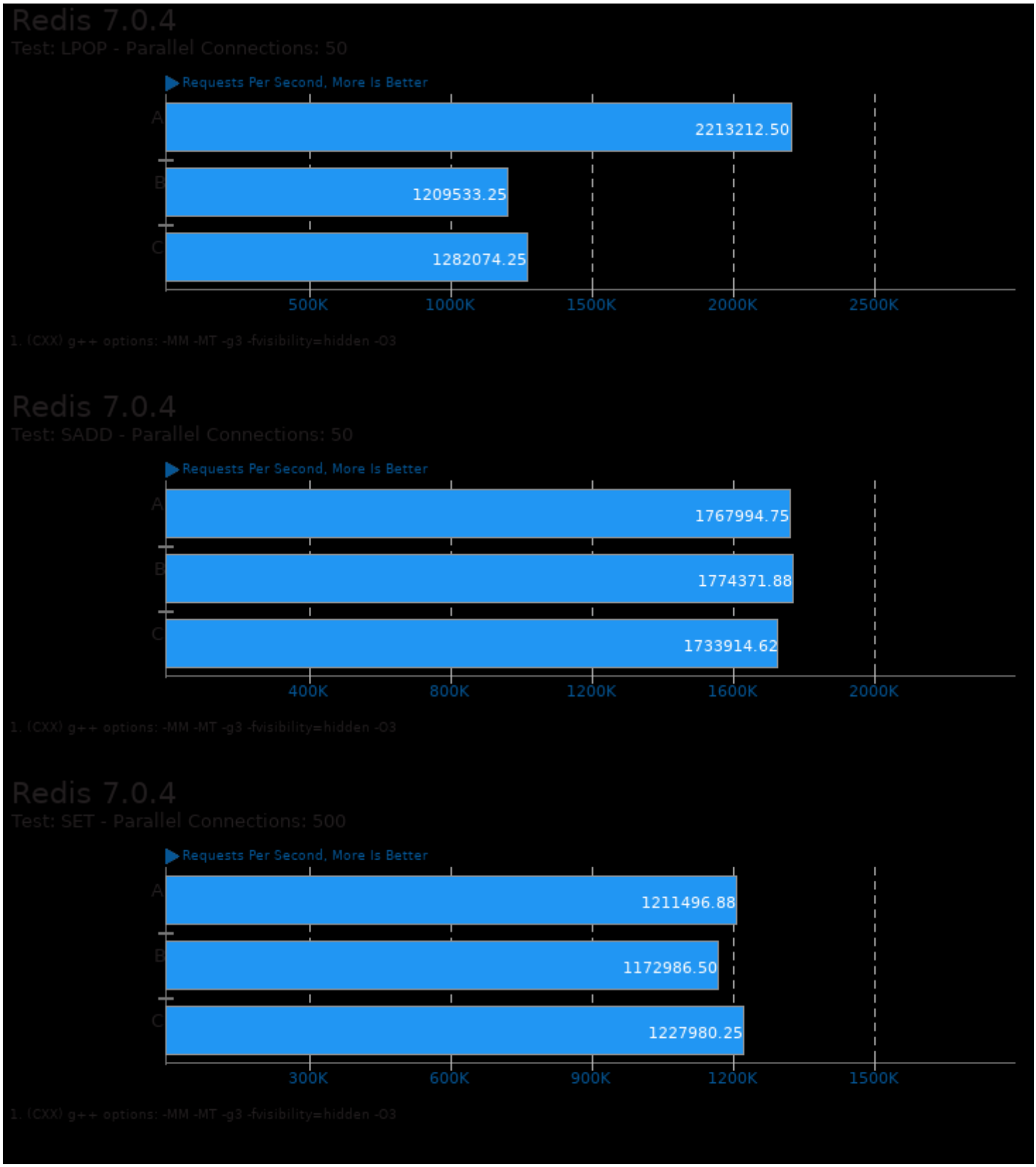

Dragonflydb 0.6
Clients: 200 - Set To Get Ratio: 1:1
Ops/sec, More Is Better
A
2055617.35
B
2003895.31
C
1870943.40
400K
800K
1200K
1600K
2000K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre
Dragonflydb 0.6
Clients: 200 - Set To Get Ratio: 1:5
Ops/sec, More Is Better
A
2156719.31
B
2146995.17
C
2019120.46
500K
1000K
1500K
2000K
2500K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre
Dragonflydb 0.6
Clients: 200 - Set To Get Ratio: 5:1
Ops/sec, More Is Better
A
1955362.42
B
1884886.11
C
1826173.53
400K
800K
1200K
1600K
2000K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

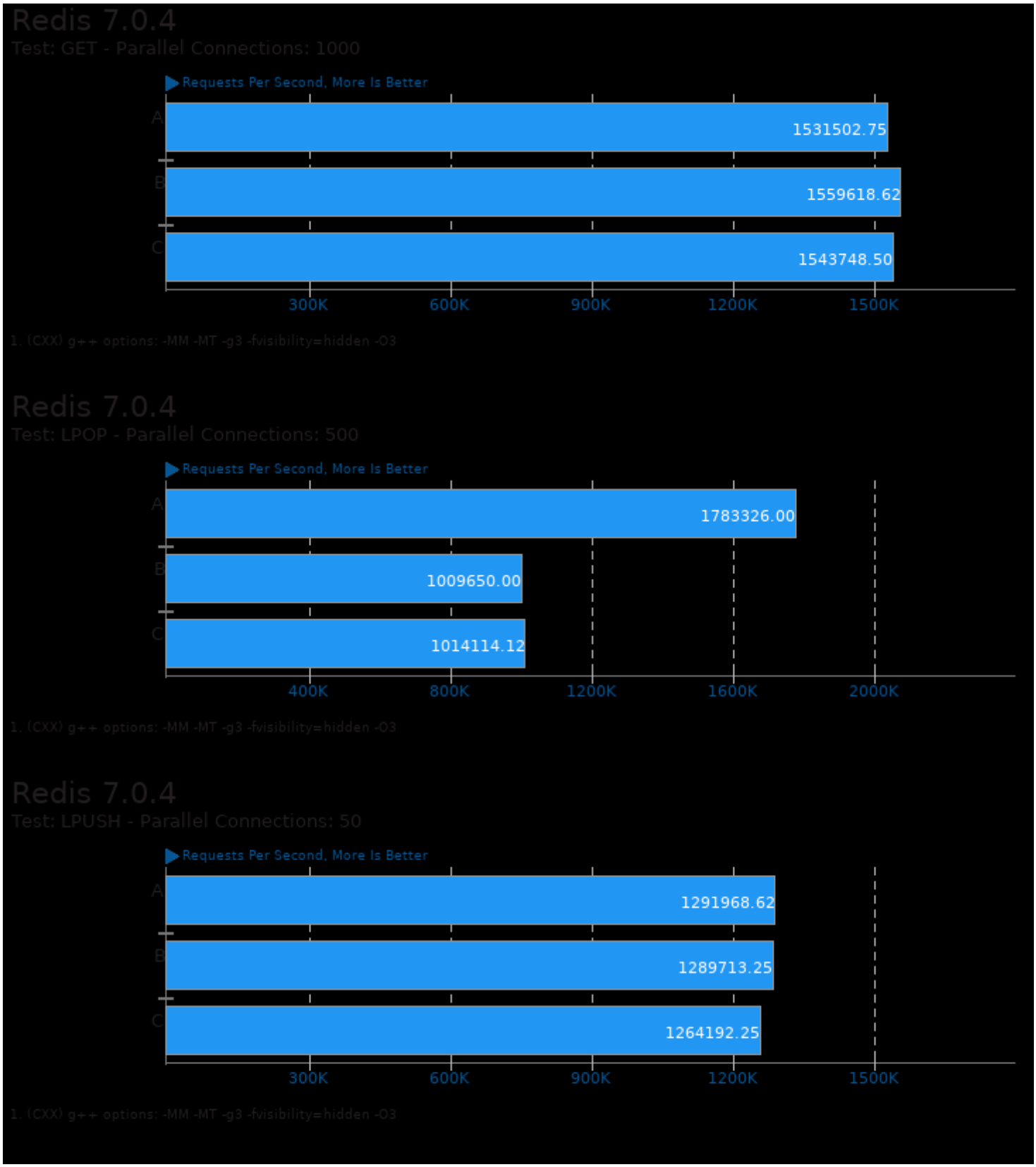
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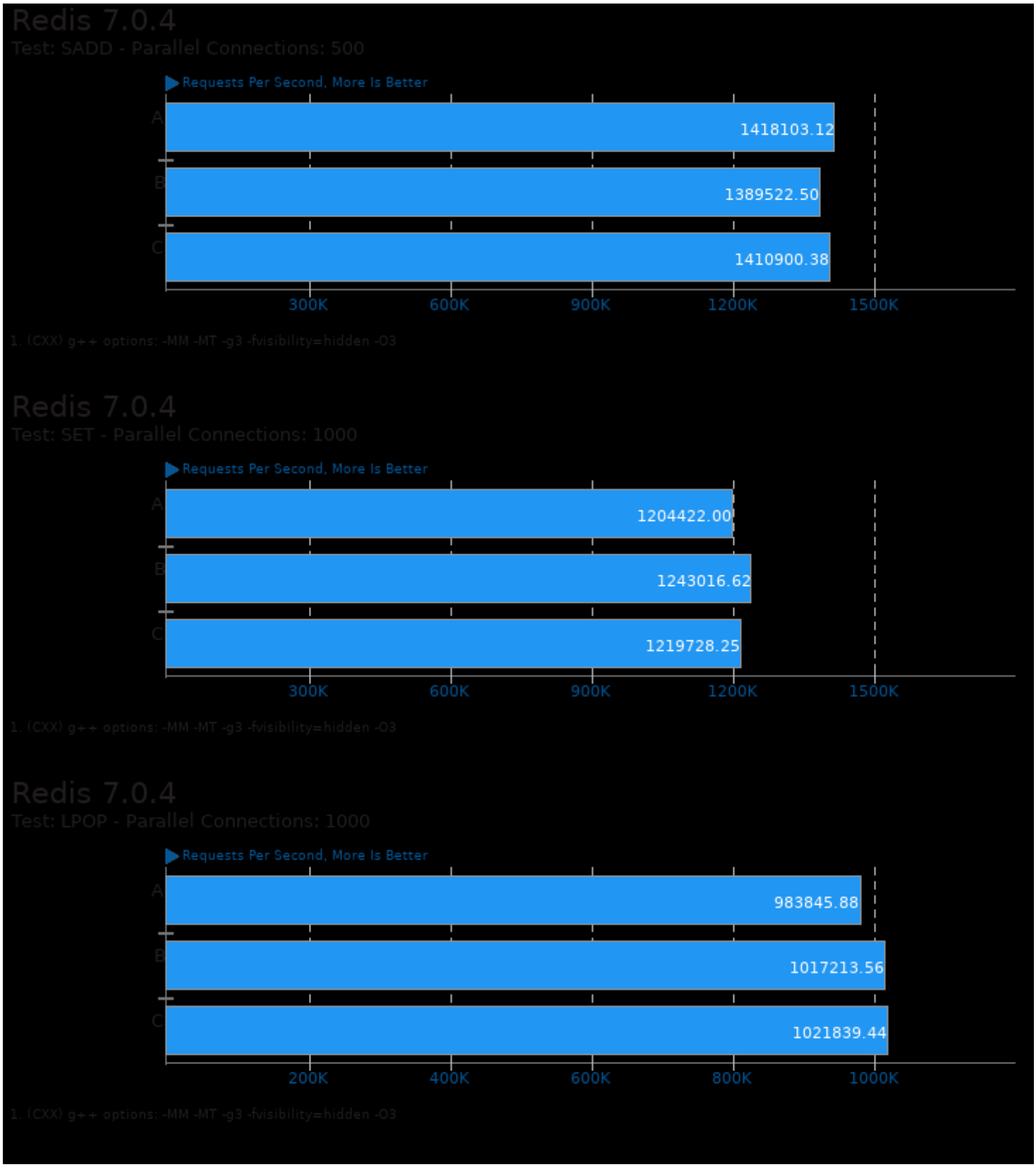


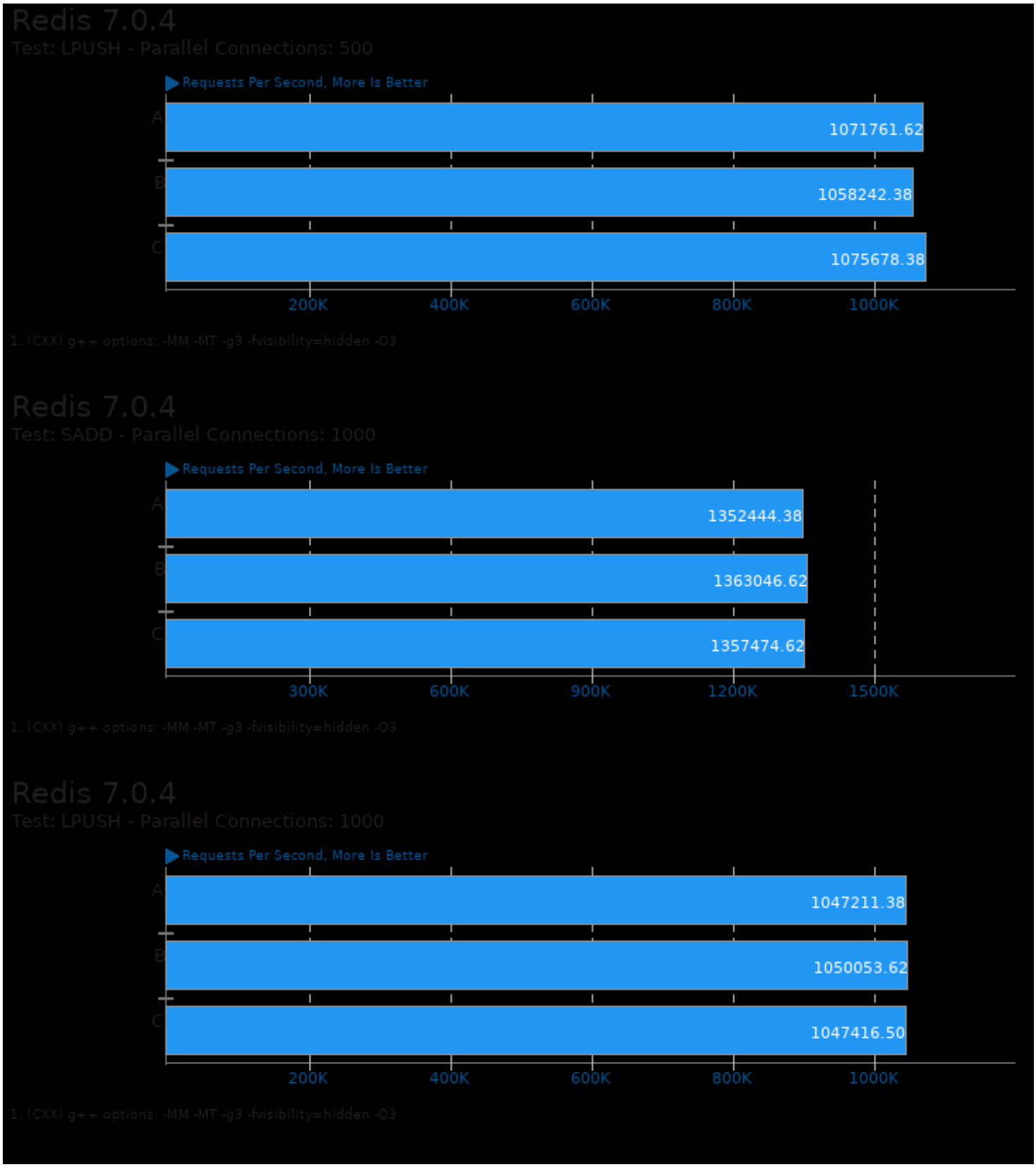
2990WX database server



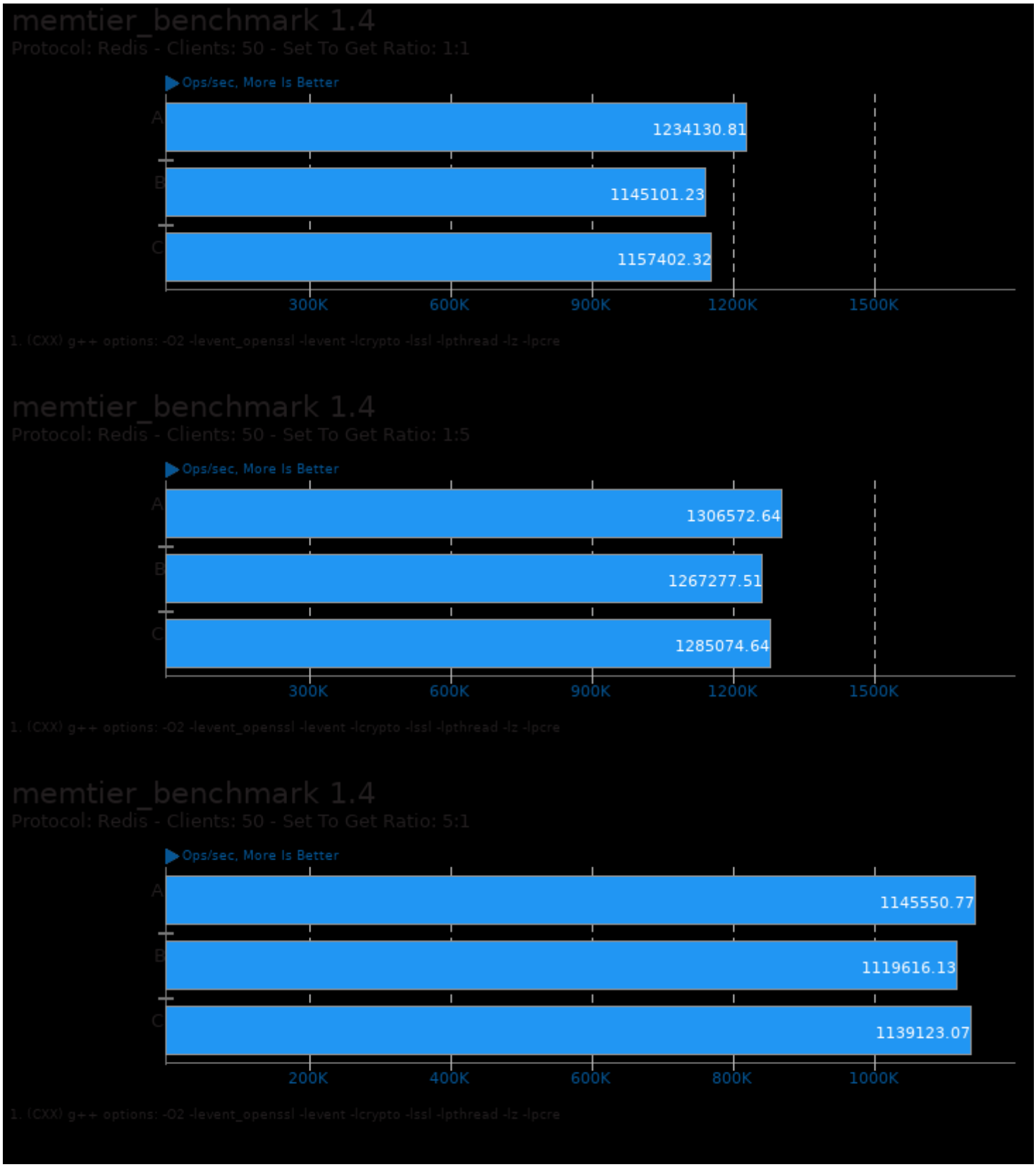

Redis 7.0.4
Test: LPOP - Parallel Connections: 50
Requests Per Second, More Is Better
A
2213212.50
B
1209533.25
C
1282074.25
500K
1000K
1500K
2000K
2500K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3
Redis 7.0.4
Test: SADD - Parallel Connections: 50
Requests Per Second, More Is Better
A
1767994.75
B
1774371.88
C
1733914.62
400K
800K
1200K
1600K
2000K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3
Redis 7.0.4
Test: SET - Parallel Connections: 500
Requests Per Second, More Is Better
A
1211496.88
B
1172986.50
C
1227980.25
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

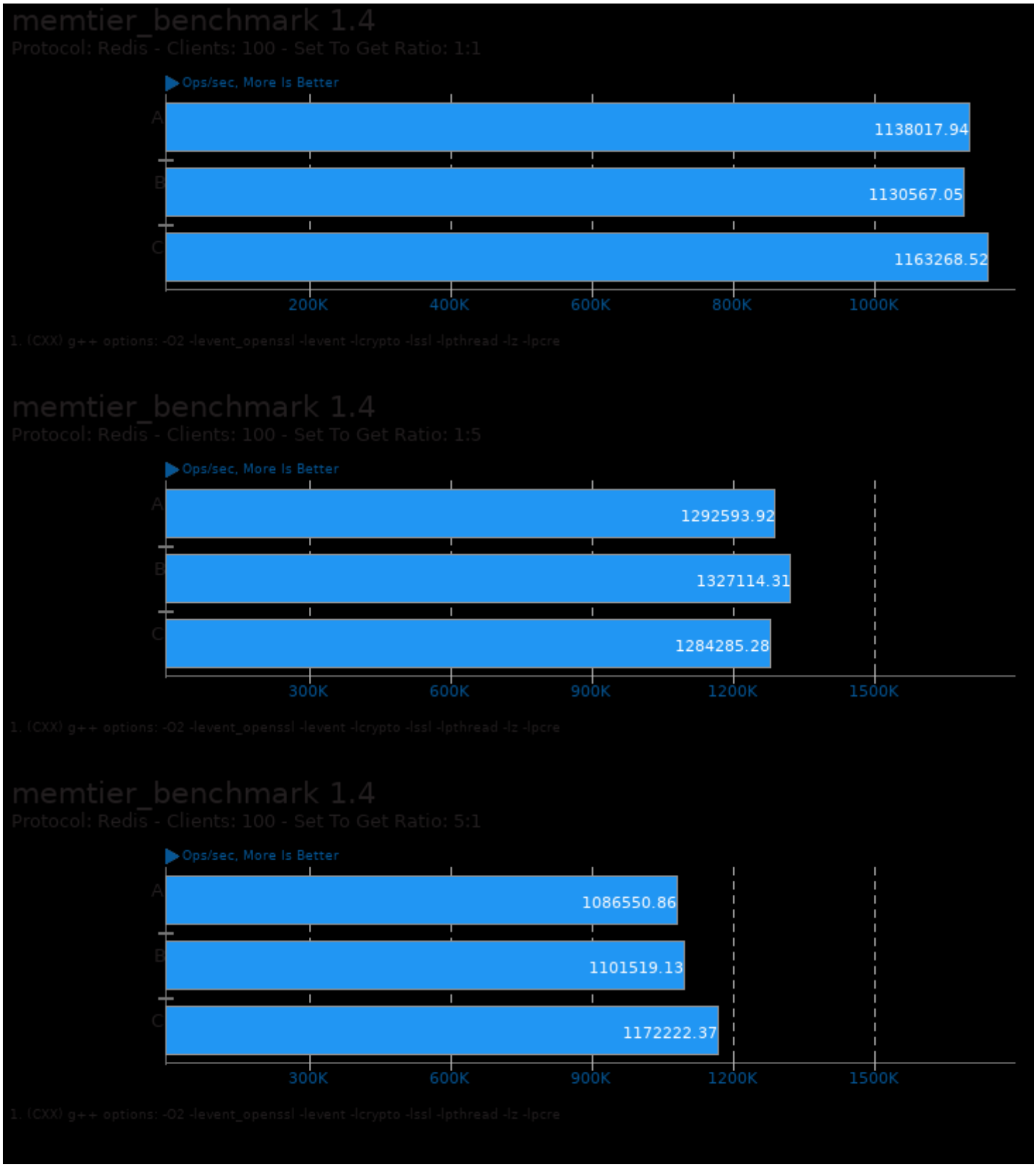

Redis 7.0.4
Test: GET - Parallel Connections: 1000
Requests Per Second, More Is Better
A
B
C
1531502.75
1559618.62
1543748.50
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3
Redis 7.0.4
Test: LPOP - Parallel Connections: 500
Requests Per Second, More Is Better
A
B
C
1783326.00
1009650.00
1014114.12
400K
800K
1200K
1600K
2000K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3
Redis 7.0.4
Test: LPUSH - Parallel Connections: 50
Requests Per Second, More Is Better
A
B
C
1291968.62
1289713.25
1264192.25
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

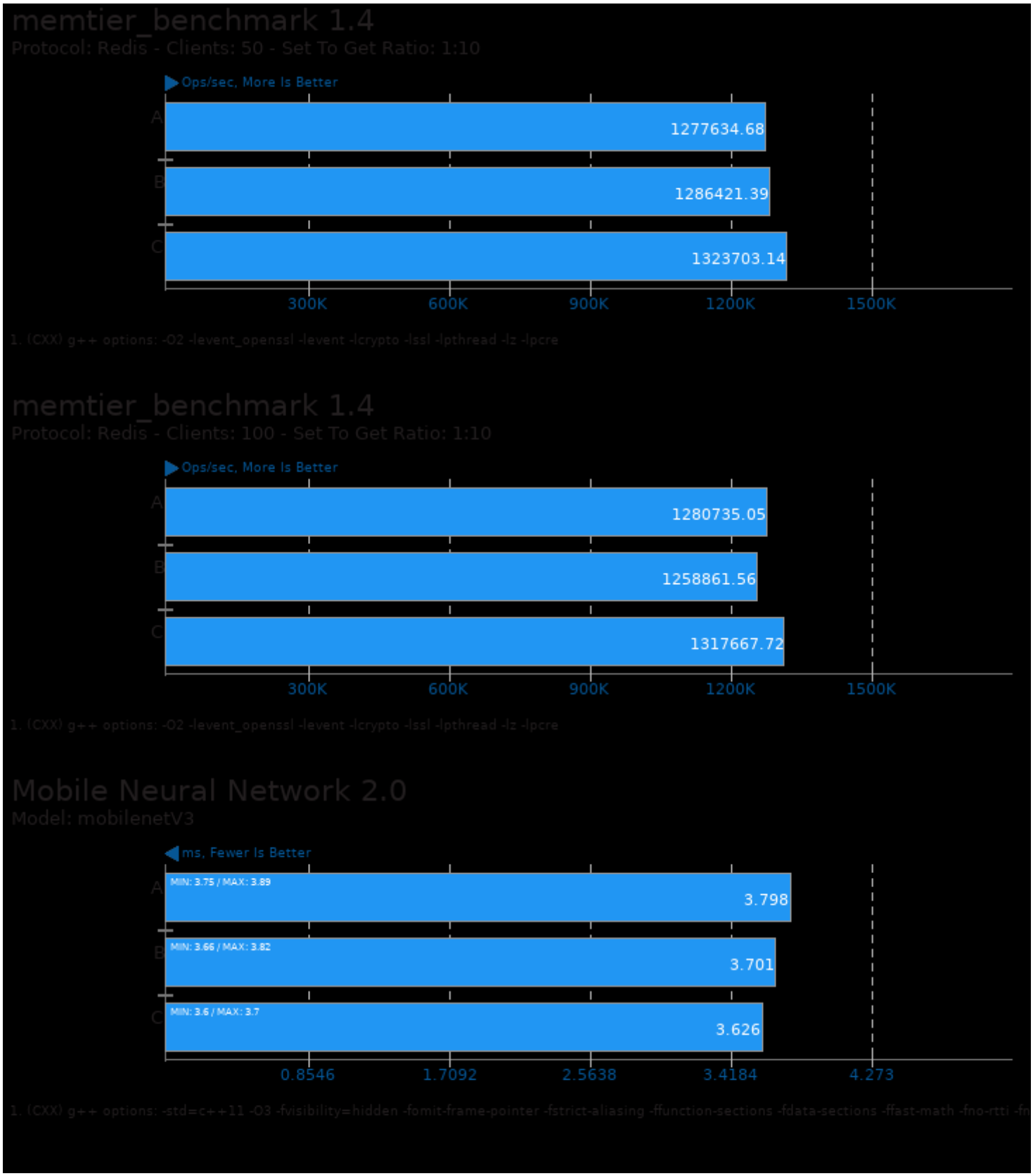

Redis 7.0.4
Test: SADD - Parallel Connections: 500
Requests Per Second, More Is Better
A
B
C
1418103.12
1389522.50
1410900.38
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3
Redis 7.0.4
Test: SET - Parallel Connections: 1000
Requests Per Second, More Is Better
A
B
C
1204422.00
1243016.62
1219728.25
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3
Redis 7.0.4
Test: LPOP - Parallel Connections: 1000
Requests Per Second, More Is Better
A
B
C
983845.88
1017213.56
1021839.44
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

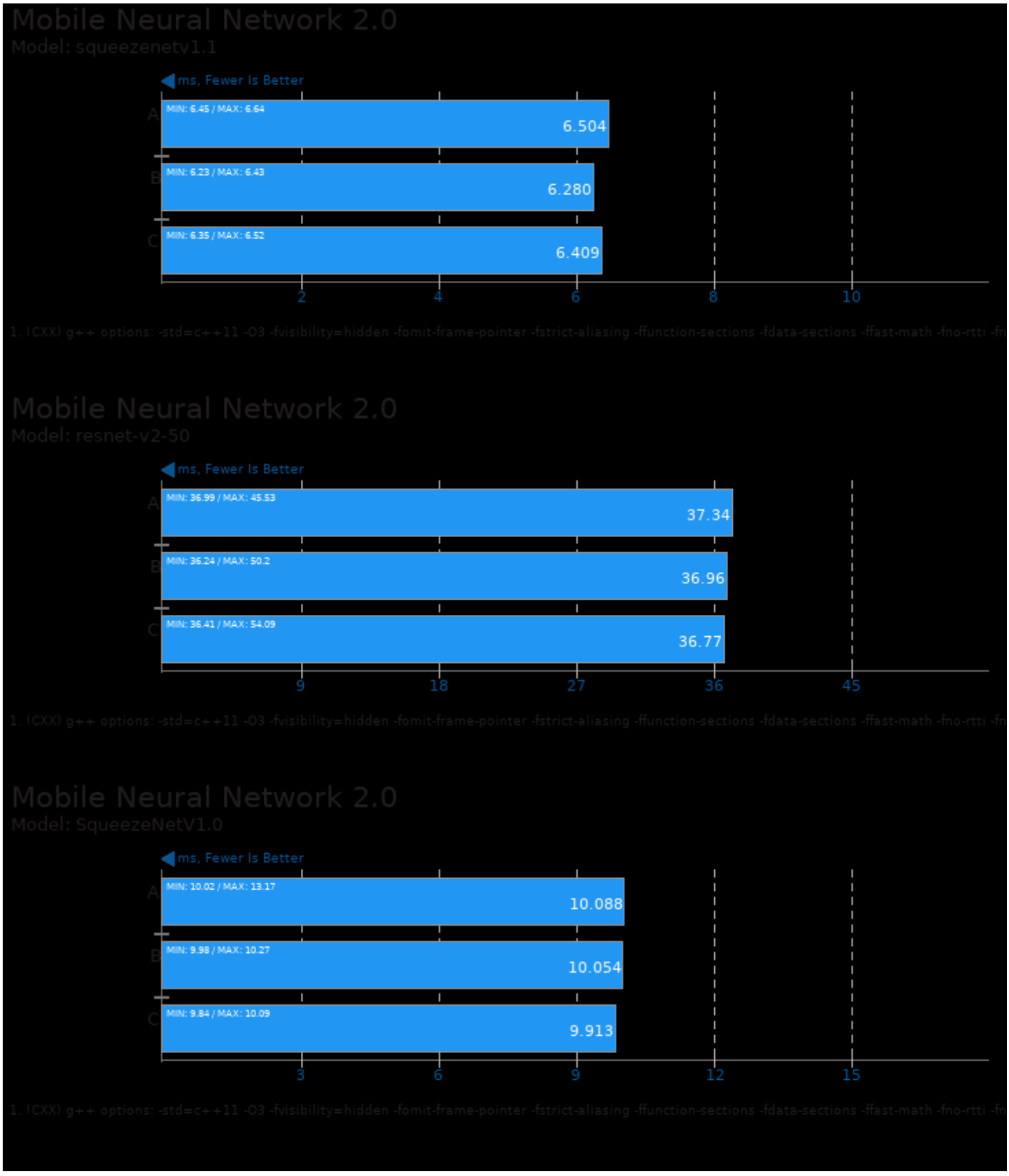

Redis 7.0.4
Test: LPUSH - Parallel Connections: 500
Requests Per Second, More Is Better
A
1071761.62
B
1058242.38
C
1075678.38
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3
Redis 7.0.4
Test: SADD - Parallel Connections: 1000
Requests Per Second, More Is Better
A
1352444.38
B
1363046.62
C
1357474.62
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3
Redis 7.0.4
Test: LPUSH - Parallel Connections: 1000
Requests Per Second, More Is Better
A
1047211.38
B
1050053.62
C
1047416.50
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

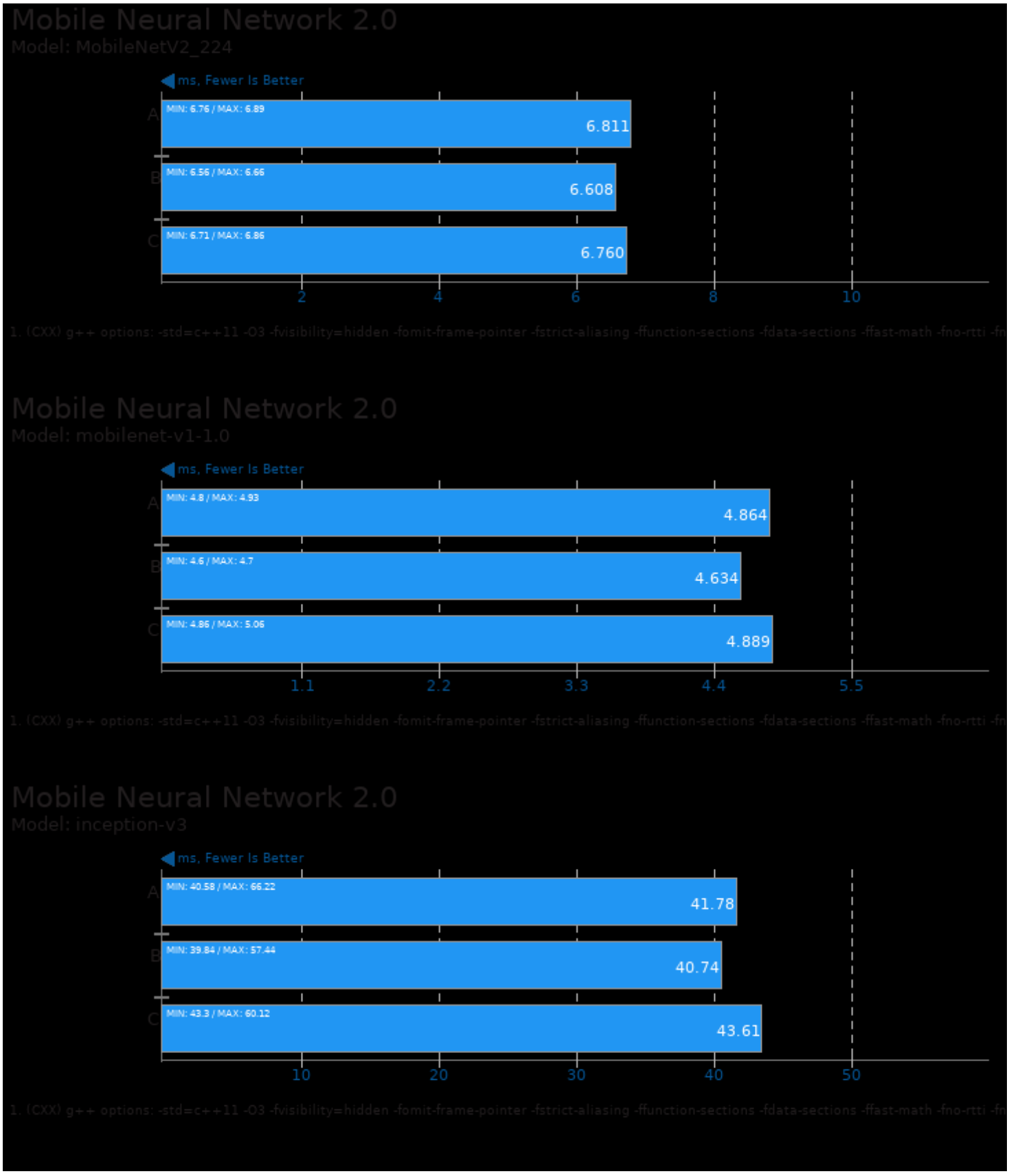
2990WX database server

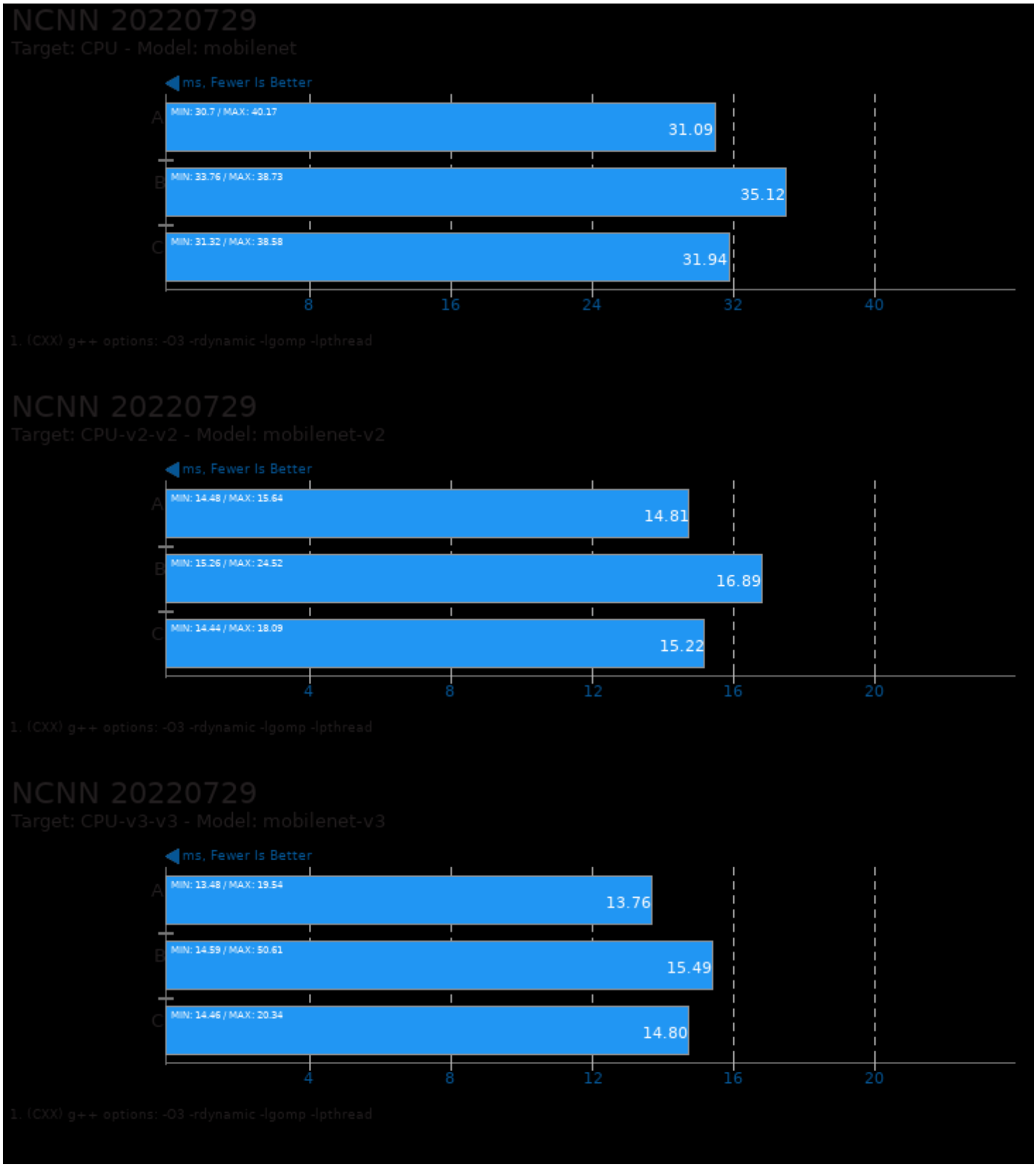


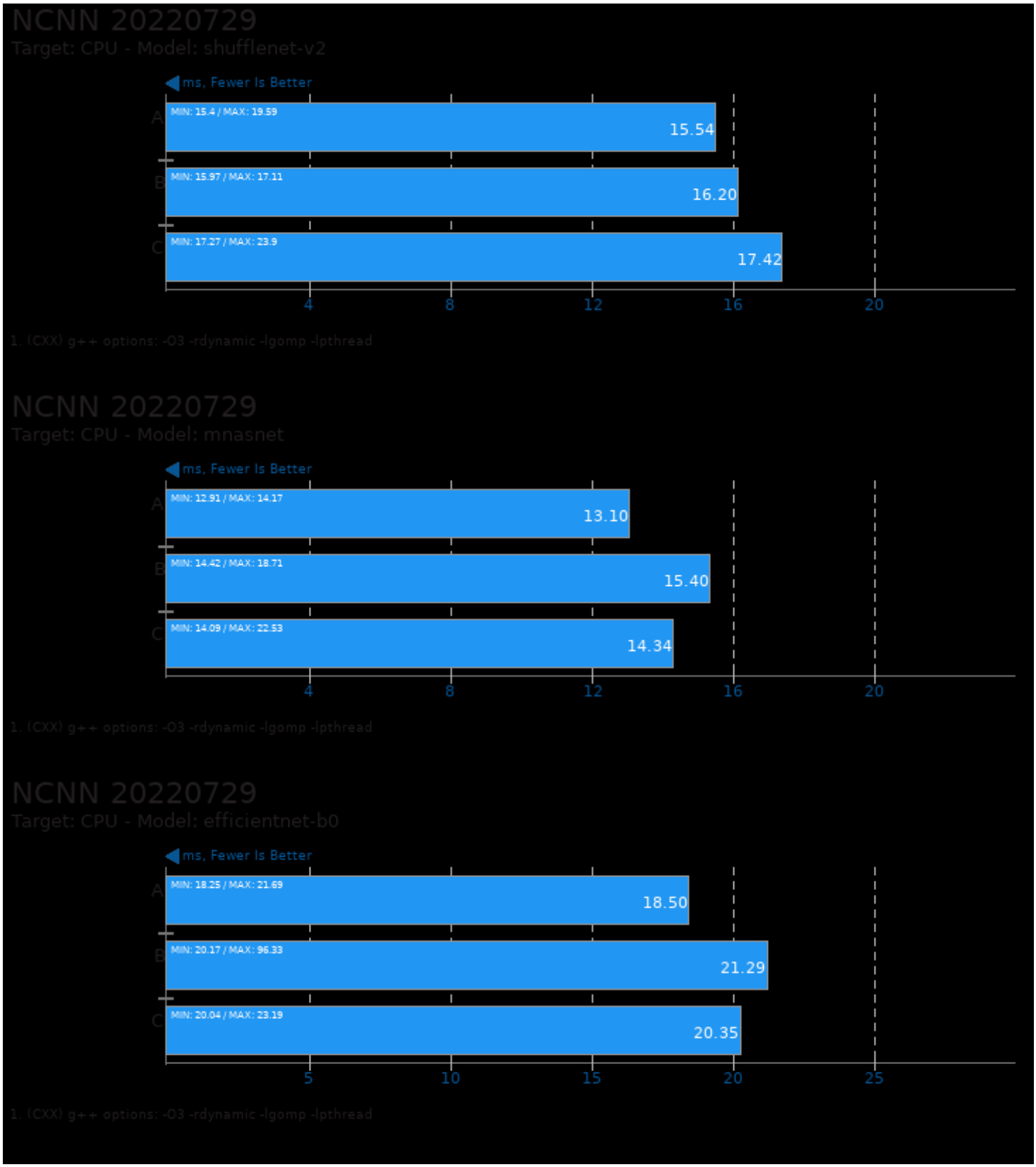

memtier_benchmark 1.4
Protocol: Redis - Clients: 100 - Set To Get Ratio: 1:1
Ops/sec, More Is Better
A
1138017.94
B
1130567.05
C
1163268.52
200K
400K
600K
800K
1000K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre
memtier_benchmark 1.4
Protocol: Redis - Clients: 100 - Set To Get Ratio: 1:5
Ops/sec, More Is Better
A
1292593.92
B
1327114.31
C
1284285.28
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre
memtier_benchmark 1.4
Protocol: Redis - Clients: 100 - Set To Get Ratio: 5:1
Ops/sec, More Is Better
A
1086550.86
B
1101519.13
C
1172222.37
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

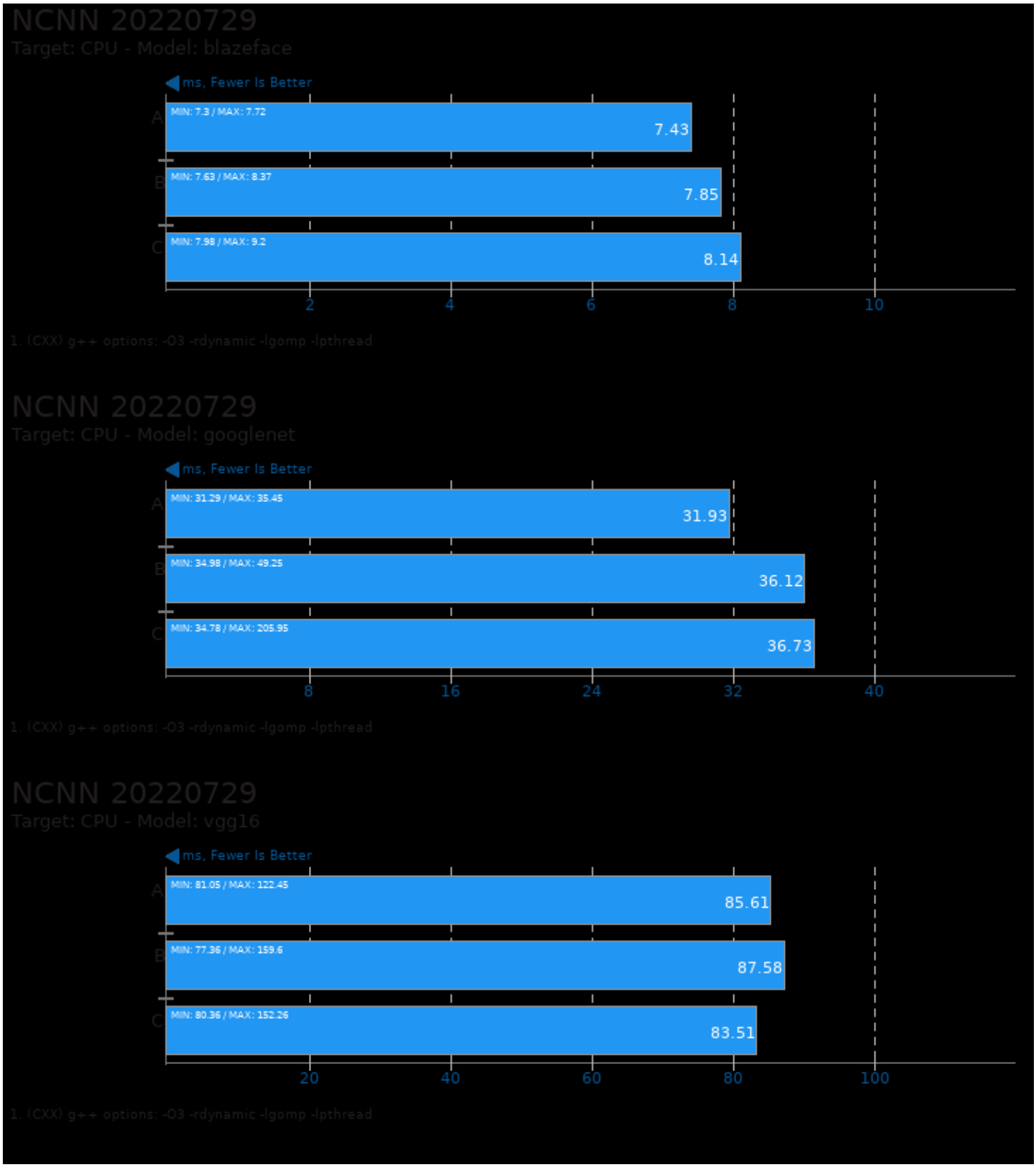

memtier_benchmark 1.4
Protocol: Redis - Clients: 50 - Set To Get Ratio: 1:10
Ops/sec, More Is Better
A
1277634.68
B
1286421.39
C
1323703.14
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre
memtier_benchmark 1.4
Protocol: Redis - Clients: 100 - Set To Get Ratio: 1:10
Ops/sec, More Is Better
A
1280735.05
B
1258861.56
C
1317667.72
300K
600K
900K
1200K
1500K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre
Mobile Neural Network 2.0
Model: mobilenetV3
ms, Fewer Is Better
A
MIN: 3.75 / MAX: 3.89
3.798
B
MIN: 3.66 / MAX: 3.82
3.701
C
MIN: 3.6 / MAX: 3.7
3.626
0.8546
1.7092
2.5638
3.4184
4.273
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti

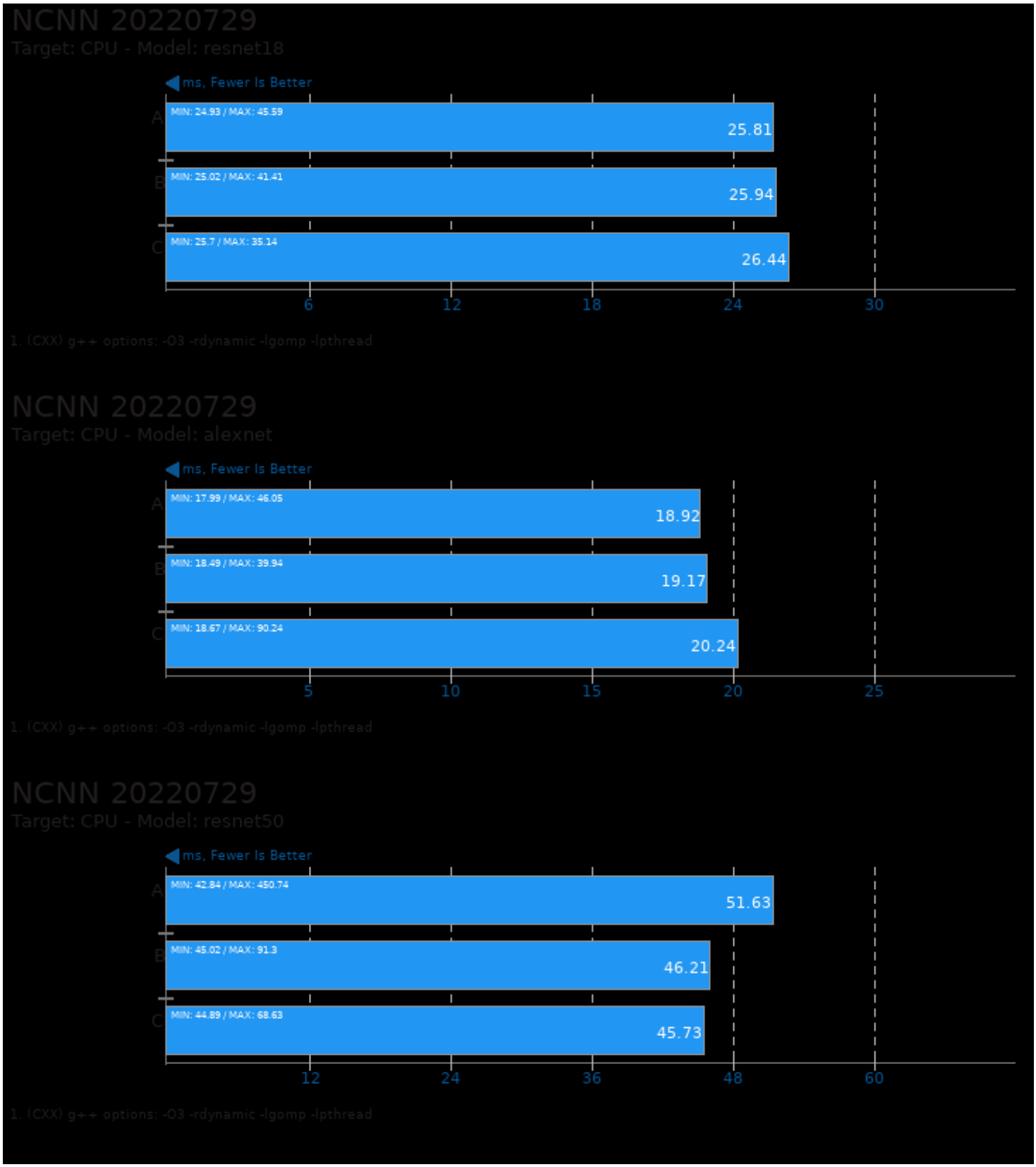

Mobile Neural Network 2.0
Model: squeezenetv1.1
ms, Fewer Is Better
A
MIN: 6.45 / MAX: 6.64
6.504
B
MIN: 6.23 / MAX: 6.43
6.280
C
MIN: 6.35 / MAX: 6.52
6.409
2
4
6
8
10
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv
Mobile Neural Network 2.0
Model: resnet-v2-50
ms, Fewer Is Better
A
MIN: 36.99 / MAX: 45.53
37.34
B
MIN: 36.24 / MAX: 50.2
36.96
C
MIN: 36.41 / MAX: 54.09
36.77
9
18
27
36
45
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv
Mobile Neural Network 2.0
Model: SqueezeNetV1.0
ms, Fewer Is Better
A
MIN: 10.02 / MAX: 13.17
10.088
B
MIN: 9.98 / MAX: 10.27
10.054
C
MIN: 9.84 / MAX: 10.09
9.913
3
6
9
12
15
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv

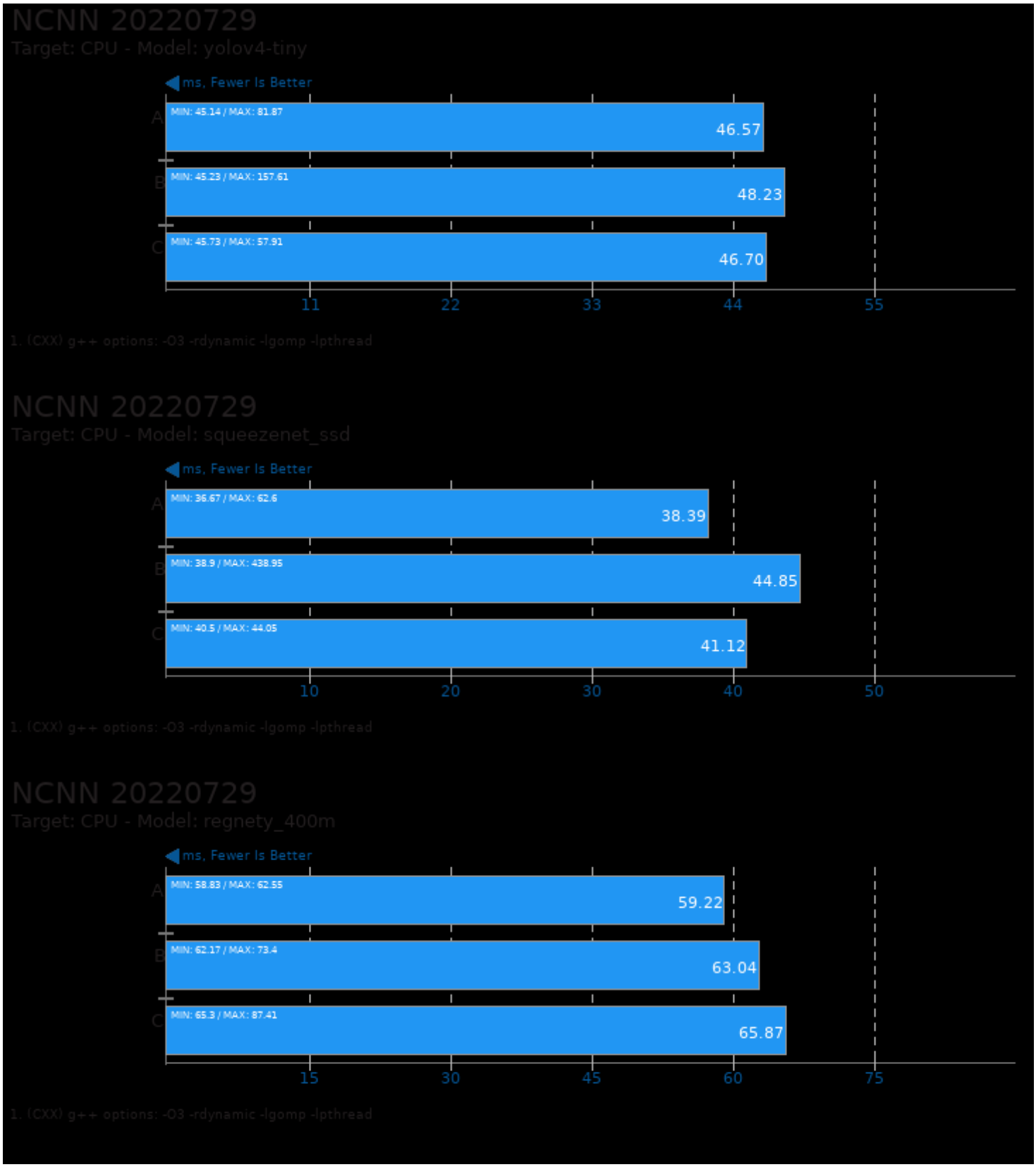

Mobile Neural Network 2.0
Model: MobileNetV2_224
ms, Fewer Is Better
A
MIN: 6.76 / MAX: 6.89
6.811
B
MIN: 6.56 / MAX: 6.66
6.608
C
MIN: 6.71 / MAX: 6.86
6.760
2
4
6
8
10
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv
Mobile Neural Network 2.0
Model: mobilenet-v1-1.0
ms, Fewer Is Better
A
MIN: 4.8 / MAX: 4.93
4.864
B
MIN: 4.6 / MAX: 4.7
4.634
C
MIN: 4.86 / MAX: 5.06
4.889
1.1
2.2
3.3
4.4
5.5
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv
Mobile Neural Network 2.0
Model: inception-v3
ms, Fewer Is Better
A
MIN: 40.58 / MAX: 66.22
41.78
B
MIN: 39.84 / MAX: 57.44
40.74
C
MIN: 43.3 / MAX: 60.12
43.61
10
20
30
40
50
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fv

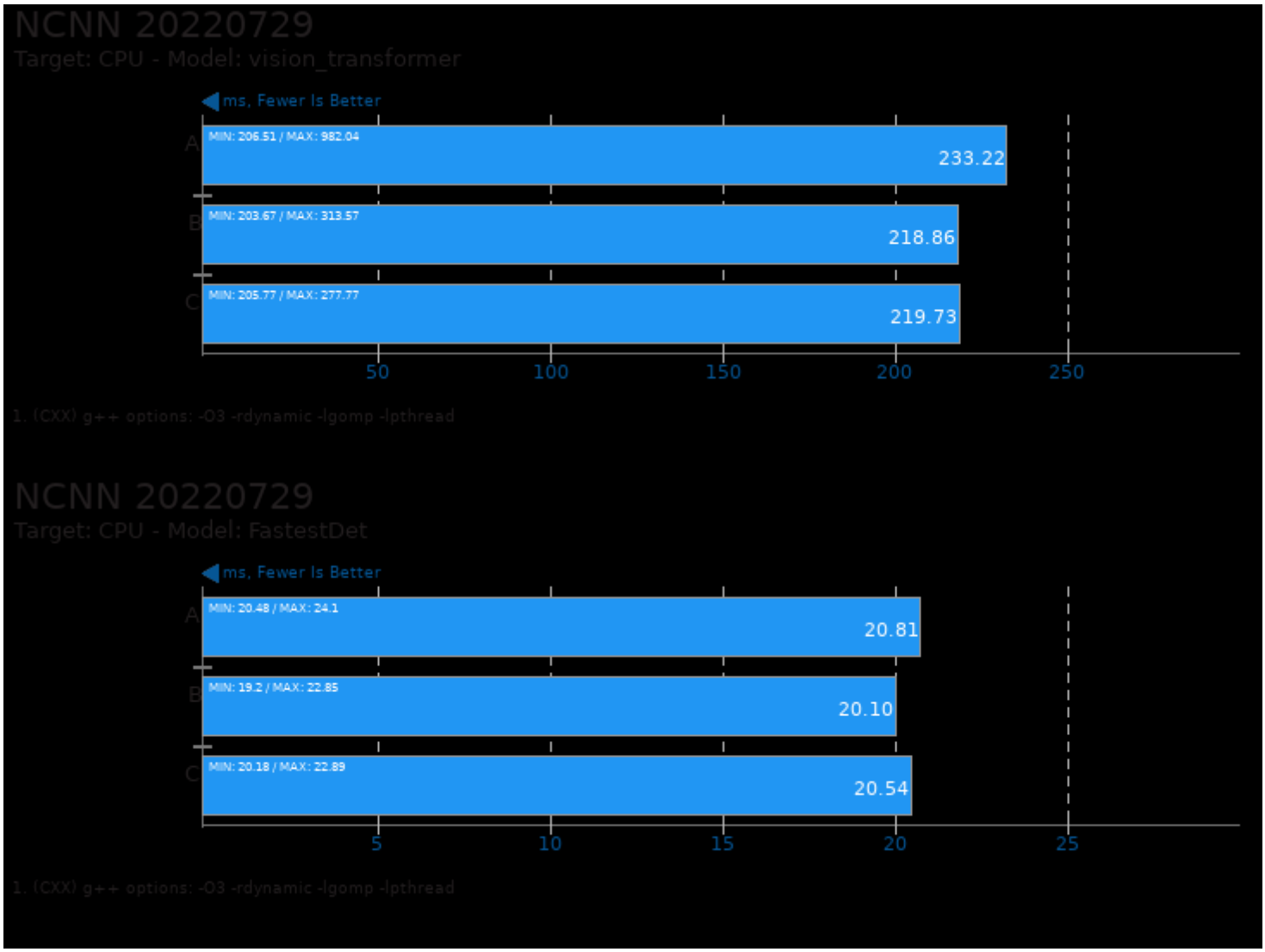

NCNN 20220729
Target: CPU - Model: mobilenet
ms, Fewer Is Better
A
MIN: 30.7 / MAX: 40.17
31.09
B
MIN: 33.76 / MAX: 38.73
35.12
C
MIN: 31.32 / MAX: 38.58
31.94
8
16
24
32
40
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU-v2-v2 - Model: mobilenet-v2
ms, Fewer Is Better
A
MIN: 14.48 / MAX: 15.64
14.81
B
MIN: 15.26 / MAX: 24.52
16.89
C
MIN: 14.44 / MAX: 18.09
15.22
4
8
12
16
20
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU-v3-v3 - Model: mobilenet-v3
ms, Fewer Is Better
A
MIN: 13.48 / MAX: 19.54
13.76
B
MIN: 14.59 / MAX: 50.61
15.49
C
MIN: 14.46 / MAX: 20.34
14.80
4
8
12
16
20
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread


NCNN 20220729
Target: CPU - Model: shufflenet-v2
ms, Fewer Is Better
A
MIN: 15.4 / MAX: 19.59
15.54
B
MIN: 15.97 / MAX: 17.11
16.20
C
MIN: 17.27 / MAX: 23.9
17.42
4
8
12
16
20
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: mnasnet
ms, Fewer Is Better
A
MIN: 12.91 / MAX: 14.17
13.10
B
MIN: 14.42 / MAX: 18.71
15.40
C
MIN: 14.09 / MAX: 22.53
14.34
4
8
12
16
20
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: efficientnet-b0
ms, Fewer Is Better
A
MIN: 18.25 / MAX: 21.69
18.50
B
MIN: 20.17 / MAX: 96.33
21.29
C
MIN: 20.04 / MAX: 23.19
20.35
5
10
15
20
25
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread


NCNN 20220729
Target: CPU - Model: blazeface
ms, Fewer Is Better
A
MIN: 7.3 / MAX: 7.72
7.43
B
MIN: 7.63 / MAX: 8.37
7.85
C
MIN: 7.98 / MAX: 9.2
8.14
2
4
6
8
10
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: googlenet
ms, Fewer Is Better
A
MIN: 31.29 / MAX: 35.45
31.93
B
MIN: 34.98 / MAX: 49.25
36.12
C
MIN: 34.78 / MAX: 205.95
36.73
8
16
24
32
40
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: vgg16
ms, Fewer Is Better
A
MIN: 81.05 / MAX: 122.45
85.61
B
MIN: 77.36 / MAX: 159.6
87.58
C
MIN: 80.36 / MAX: 152.26
83.51
20
40
60
80
100
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread


NCNN 20220729
Target: CPU - Model: resnet18
ms, Fewer Is Better
A
MIN: 24.93 / MAX: 45.59
25.81
B
MIN: 25.02 / MAX: 41.41
25.94
C
MIN: 25.7 / MAX: 35.14
26.44
6
12
18
24
30
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: alexnet
ms, Fewer Is Better
A
MIN: 17.99 / MAX: 46.05
18.92
B
MIN: 18.49 / MAX: 39.94
19.17
C
MIN: 18.67 / MAX: 90.24
20.24
5
10
15
20
25
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: resnet50
ms, Fewer Is Better
A
MIN: 42.84 / MAX: 450.74
51.63
B
MIN: 45.02 / MAX: 91.3
46.21
C
MIN: 44.89 / MAX: 68.63
45.73
12
24
36
48
60
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread


NCNN 20220729
Target: CPU - Model: yolov4-tiny
ms, Fewer Is Better
A
MIN: 45.14 / MAX: 81.87
46.57
B
MIN: 45.23 / MAX: 157.61
48.23
C
MIN: 45.73 / MAX: 57.91
46.70
11
22
33
44
55
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: squeezenet_ssd
ms, Fewer Is Better
A
MIN: 36.67 / MAX: 62.6
38.39
B
MIN: 38.9 / MAX: 438.95
44.85
C
MIN: 40.5 / MAX: 44.05
41.12
10
20
30
40
50
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: regnety_400m
ms, Fewer Is Better
A
MIN: 58.83 / MAX: 62.55
59.22
B
MIN: 62.17 / MAX: 73.4
63.04
C
MIN: 65.3 / MAX: 87.41
65.87
15
30
45
60
75
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

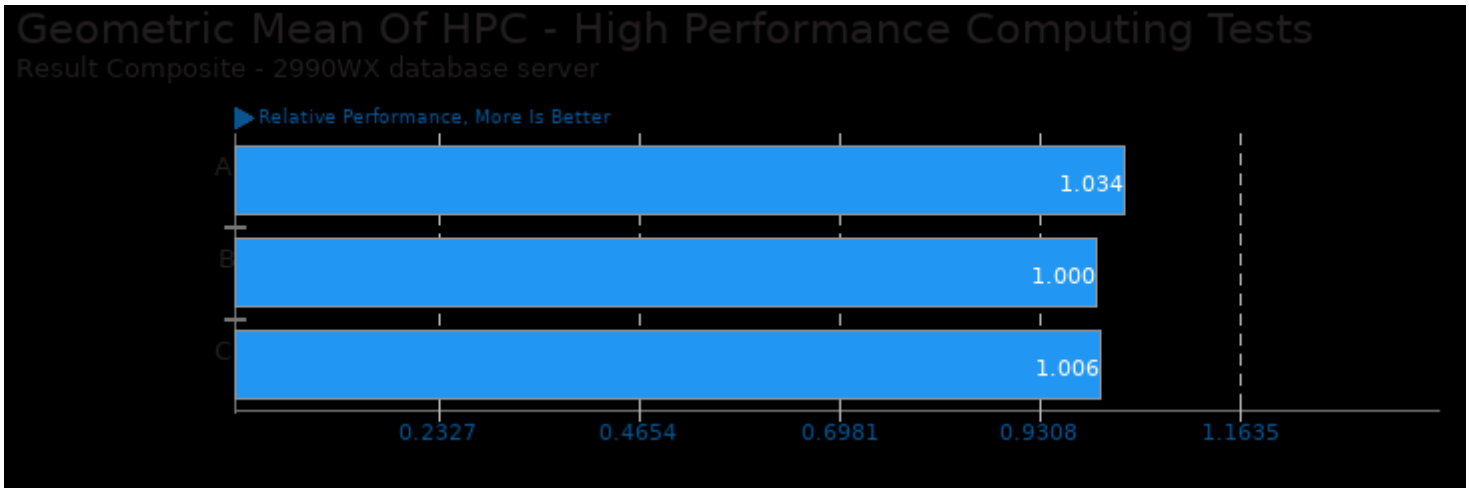

NCNN 20220729
Target: CPU - Model: vision_transformer
ms, Fewer Is Better
A
MIN: 206.51 / MAX: 982.04
233.22
B
MIN: 203.67 / MAX: 313.57
218.86
C
MIN: 205.77 / MAX: 277.77
219.73
50
100
150
200
250
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread
NCNN 20220729
Target: CPU - Model: FastestDet
ms, Fewer Is Better
A
MIN: 20.48 / MAX: 24.1
20.81
B
MIN: 19.2 / MAX: 22.85
20.10
C
MIN: 20.18 / MAX: 22.89
20.54
5
10
15
20
25
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

2990WX database server

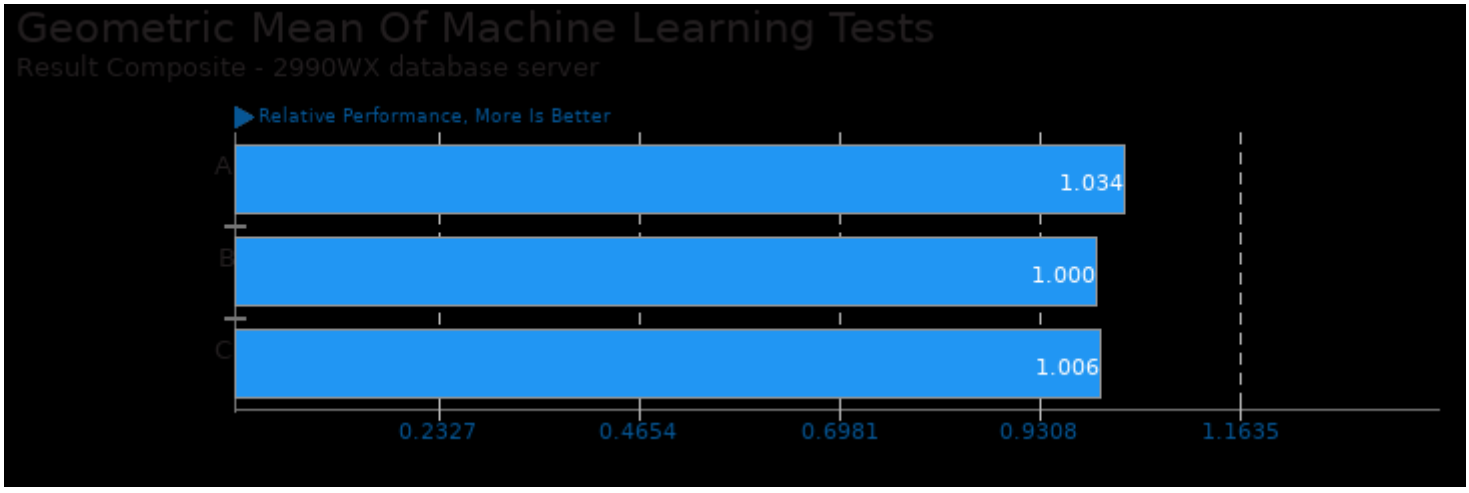
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/redis, pts/memcached, pts/dragonflydb, pts/memtier-benchmark and pts/clickhouse



Geometric mean based upon tests: pts/mnn and pts/ncnn



Geometric mean based upon tests: pts/mnn and pts/ncnn

2990WX database server



Geometric mean based upon tests: pts/memtier-benchmark, pts/redis, pts/memcached, pts/dragonflydb and pts/clickhouse

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 19:44.