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xeon platinum 8280 2023

2 x Intel Xeon Platinum 8280 testing with a GIGABYTE MD61-SC2-00 v01000100 (T15 BIOS) and ASPEED on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

a had the most wins, coming in first place for 55% of the tests.

Based on the geometric mean of all complete results, the fastest (a) was 1.011x the speed of the slowest (b).

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

PostgreSQL (Scaling Factor: 1 - Clients: 500 - Mode: Read Write) at 1.531x
PostgreSQL (Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency) at 1.53x
CockroachDB (Workload: KV, 50% Reads - Concurrency: 1024) at 1.118x
CockroachDB (Workload: KV, 95% Reads - Concurrency: 128) at 1.111x
CockroachDB (Workload: KV, 95% Reads - Concurrency: 512) at 1.106x
CockroachDB (Workload: KV, 50% Reads - Concurrency: 256) at 1.105x
CockroachDB (Workload: KV, 50% Reads - Concurrency: 512) at 1.102x
CockroachDB (Workload: MoVR - Concurrency: 256) at 1.096x
PostgreSQL (Scaling Factor: 1 - Clients: 1000 - Mode: Read Only - Average Latency) at 1.082x
PostgreSQL (Scaling Factor: 1 - Clients: 1000 - Mode: Read Only) at 1.081x.

Test Systems:

a

b

Processor: 2 x Intel Xeon Platinum 8280 @ 4.00GHz (56 Cores / 112 Threads), Motherboard: GIGABYTE MD61-SC2-00 v01000100 (T15 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 384GB, Disk: 280GB INTEL SSDPED1D280GA, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X722 for 1GbE + 2 x QLogic FastLinQ QL41000 10/25/40/50GbE

OS: Ubuntu 21.04, Kernel: 5.11.0-49-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server, Compiler: GCC 10.3.0, 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-bootstrap --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-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-gcn/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-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: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x5003102
Python Notes: Python 3.9.5
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

	a	b
Kvazaar - Bosphorus 4K - Slow (FPS)	**8.82**	**8.87**
Normalized	99.44%	100%
Kvazaar - Bosphorus 4K - Medium (FPS)	**9.06**	**9.08**
Normalized	99.78%	100%
Kvazaar - Bosphorus 1080p - Slow (FPS)	**33.06**	**33.25**
Normalized	99.43%	100%
Kvazaar - Bosphorus 1080p - Medium (FPS)	**34.2**	**33.56**
Normalized	100%	98.13%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	**17.02**	**16.99**
Normalized	100%	99.82%
Kvazaar - Bosphorus 4K - Super Fast (FPS)	**22.36**	**22.48**
Normalized	99.47%	100%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	**25.91**	**25.98**
Normalized	99.73%	100%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	**73.05**	**69.55**
Normalized	100%	95.21%
Kvazaar - Bosphorus 1080p - Super Fast (FPS)	**97.08**	**94.9**
Normalized	100%	97.75%
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	**119.74**	**118.28**
Normalized	100%	98.78%
uvg266 - Bosphorus 4K - Slow (FPS)	**7.71**	**7.69**
Normalized	100%	99.74%

uvg266 - Bosphorus 4K - Medium (FPS)	8.4	8.46
Normalized	99.29%	100%
uvg266 - Bosphorus 1080p - Slow (FPS)	23.33	23.69
Normalized	98.48%	100%
uvg266 - Bosphorus 1080p - Medium (FPS)	25.25	25.28
Normalized	99.88%	100%
uvg266 - Bosphorus 4K - Very Fast (FPS)	18.86	18.75
Normalized	100%	99.42%
uvg266 - Bosphorus 4K - Super Fast (FPS)	22.08	22.03
Normalized	100%	99.77%
uvg266 - Bosphorus 4K - Ultra Fast (FPS)	21.65	21.03
Normalized	100%	97.14%
uvg266 - Bosphorus 1080p - Very Fast (FPS)	59.51	59.8
Normalized	99.52%	100%
uvg266 - Bosphorus 1080p - Super Fast (FPS)	68.3	67.77
Normalized	100%	99.22%
uvg266 - Bosphorus 1080p - Ultra Fast (FPS)	79.04	79.21
Normalized	99.79%	100%
OpenVKL - vklBenchmark ISPC (Items / Sec)	520	522
Normalized	99.62%	100%
OpenVKL - v.S (Items / Sec)	255	253
Normalized	100%	99.22%
oneDNN - IP Shapes 1D - f32 - CPU (ms)	1.30989	1.29942
Normalized	99.2%	100%
oneDNN - IP Shapes 3D - f32 - CPU (ms)	3.00282	3.02197
Normalized	100%	99.37%
oneDNN - IP Shapes 1D - u8s8f32 - CPU (ms)	1.39001	1.40389
Normalized	100%	99.01%
oneDNN - IP Shapes 3D - u8s8f32 - CPU (ms)	1.08776	1.13263
Normalized	100%	96.04%
oneDNN - IP Shapes 1D - bf16bf16bf16 - CPU (ms)	3.71301	3.69864
Normalized	99.61%	100%
oneDNN - IP Shapes 3D - bf16bf16bf16 - CPU (ms)	2.10746	2.11619
Normalized	100%	99.59%
oneDNN - C.B.S.A - f32 - CPU (ms)	3.93265	3.88472
Normalized	98.78%	100%
oneDNN - D.B.s - f32 - CPU (ms)	18.6138	18.5701
Normalized	99.77%	100%
oneDNN - D.B.s - f32 - CPU (ms)	1.21248	1.21791
Normalized	100%	99.55%
oneDNN - C.B.S.A - u8s8f32 - CPU (ms)	3.64132	3.62224
Normalized	99.48%	100%
oneDNN - D.B.s - u8s8f32 - CPU (ms)	0.434424	0.43882
Normalized	100%	99%
oneDNN - D.B.s - u8s8f32 - CPU (ms)	0.331943	0.336858
Normalized	100%	98.54%
oneDNN - R.N.N.T - f32 - CPU (ms)	876.576	877.97
Normalized	100%	99.84%
oneDNN - R.N.N.I - f32 - CPU (ms)	457.84	458.51
Normalized	100%	99.85%
oneDNN - R.N.N.T - u8s8f32 - CPU (ms)	875.659	878.287
Normalized	100%	99.7%
oneDNN - C.B.S.A - bf16bf16bf16 - CPU (ms)	3.14259	3.13757

Normalized	99.84%	100%
oneDNN - D.B.s - bf16bf16bf16 - CPU (ms)	4.84062	4.8545
Normalized	100%	99.71%
oneDNN - D.B.s - bf16bf16bf16 - CPU (ms)	4.43676	4.4349
Normalized	99.96%	100%
oneDNN - R.N.N.I - u8s8f32 - CPU (ms)	463.667	453.862
Normalized	97.89%	100%
oneDNN - M.M.B.S.T - f32 - CPU (ms)	0.327524	0.329008
Normalized	100%	99.55%
oneDNN - R.N.N.T - bf16bf16bf16 - CPU (ms)	876.443	890.453
Normalized	100%	98.43%
oneDNN - R.N.N.I - bf16bf16bf16 - CPU (ms)	467.099	460.988
Normalized	98.69%	100%
oneDNN - M.M.B.S.T - u8s8f32 - CPU (ms)	0.194345	0.199945
Normalized	100%	97.2%
oneDNN - M.M.B.S.T - bf16bf16bf16 - CPU (ms)	2.45477	2.27592
Normalized	92.71%	100%
CockroachDB - MoVR - 128 (ops/s)	380	358.2
Normalized	100%	94.26%
CockroachDB - MoVR - 256 (ops/s)	400.6	365.6
Normalized	100%	91.26%
CockroachDB - MoVR - 512 (ops/s)	381.8	391.7
Normalized	97.47%	100%
CockroachDB - MoVR - 1024 (ops/s)	360	366.9
Normalized	98.12%	100%
CockroachDB - KV, 10% Reads - 128 (ops/s)	65449	66633
Normalized	98.22%	100%
CockroachDB - KV, 10% Reads - 256 (ops/s)	67990	68327
Normalized	99.51%	100%
CockroachDB - KV, 10% Reads - 512 (ops/s)	67126	66854
Normalized	100%	99.59%
CockroachDB - KV, 50% Reads - 128 (ops/s)	80437	85023
Normalized	94.61%	100%
CockroachDB - KV, 50% Reads - 256 (ops/s)	81103	89629
Normalized	90.49%	100%
CockroachDB - KV, 50% Reads - 512 (ops/s)	76437	84220
Normalized	90.76%	100%
CockroachDB - KV, 60% Reads - 128 (ops/s)	85674	91689
Normalized	93.44%	100%
CockroachDB - KV, 60% Reads - 256 (ops/s)	86045	84529
Normalized	100%	98.24%
CockroachDB - KV, 60% Reads - 512 (ops/s)	90837	89886
Normalized	100%	98.95%
CockroachDB - KV, 95% Reads - 128 (ops/s)	110813	99710
Normalized	100%	89.98%
CockroachDB - KV, 95% Reads - 256 (ops/s)	98761	99968
Normalized	98.79%	100%
CockroachDB - KV, 95% Reads - 512 (ops/s)	101544	91775
Normalized	100%	90.38%
CockroachDB - KV, 10% Reads - 1024 (ops/s)	65744	63331
Normalized	100%	96.33%
CockroachDB - KV, 50% Reads - 1024 (ops/s)	82226	73574
Normalized	100%	89.48%

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CockroachDB - KV, 60% Reads - 1024 (ops/s)	86583	85611
Normalized	100%	98.88%
CockroachDB - KV, 95% Reads - 1024 (ops/s)	101569	94955
Normalized	100%	93.49%
PostgreSQL - 1 - 100 - Read Only (TPS)	1564863	1584160
Normalized	98.78%	100%
PostgreSQL - 1 - 100 - Read Only - Average Latency	0.064	0.063
Normalized	98.44%	100%
PostgreSQL - 1 - 250 - Read Only (TPS)	1690140	1795519
Normalized	94.13%	100%
PostgreSQL - 1 - 250 - Read Only - Average Latency	0.148	0.139
Normalized	93.92%	100%
PostgreSQL - 1 - 500 - Read Only (TPS)	1759394	1809420
Normalized	97.24%	100%
PostgreSQL - 1 - 500 - Read Only - Average Latency	0.284	0.276
Normalized	97.18%	100%
PostgreSQL - 1 - 800 - Read Only (TPS)	1787570	1715536
Normalized	100%	95.97%
PostgreSQL - 1 - 800 - Read Only - Average Latency	0.448	0.466
Normalized	100%	96.14%
PostgreSQL - 1 - 100 - Read Write (TPS)	1365	1363
Normalized	100%	99.85%
PostgreSQL - 1 - 100 - Read Write - Average Latency (ms)	73.247	73.369
Normalized	100%	99.83%
PostgreSQL - 1 - 1000 - Read Only (TPS)	1785534	1651399
Normalized	100%	92.49%
PostgreSQL - 1 - 1000 - Read Only - Average Latency (ms)	0.56	0.606
Normalized	100%	92.41%
PostgreSQL - 1 - 250 - Read Write (TPS)	752	714
Normalized	100%	94.95%
PostgreSQL - 1 - 250 - Read Write - Average Latency (ms)	332.488	350.08
Normalized	100%	94.97%
PostgreSQL - 1 - 500 - Read Write (TPS)	366	239
Normalized	100%	65.3%
PostgreSQL - 1 - 500 - Read Write - Average Latency (ms)	1366	2090
Normalized	100%	65.38%
PostgreSQL - 1 - 800 - Read Write (TPS)	279	260
Normalized	100%	93.19%
PostgreSQL - 1 - 800 - Read Write - Average Latency (ms)	2869	3073
Normalized	100%	93.34%
PostgreSQL - 1 - 1000 - Read Write (TPS)	236	234
Normalized	100%	99.15%
PostgreSQL - 1 - 1000 - Read Write - Average Latency (ms)	4234	4275
Normalized	100%	99.04%
PostgreSQL - 100 - 100 - Read Only (TPS)	1499937	1509915
Normalized	99.34%	100%

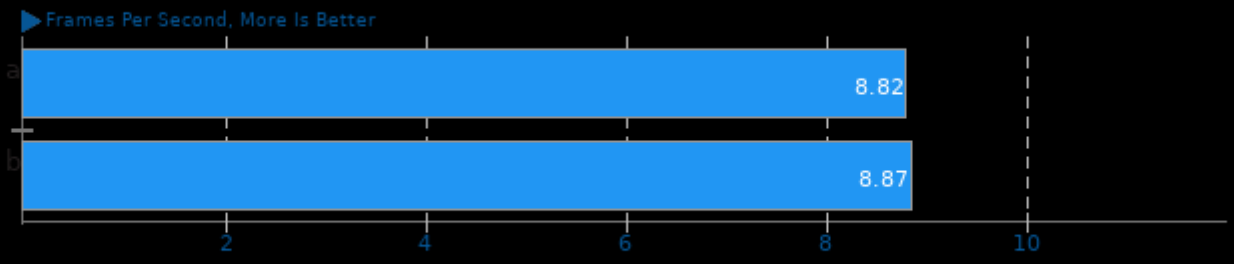
PostgreSQL - 100 - 100 - Read Only - Average Latency (ms)	0.067	0.066
Normalized	98.51%	100%
PostgreSQL - 100 - 250 - Read Only (TPS)	1785647	1793551
Normalized	99.56%	100%
PostgreSQL - 100 - 250 - Read Only - Average Latency (ms)	0.14	0.139
Normalized	99.29%	100%
PostgreSQL - 100 - 500 - Read Only (TPS)	1802196	1805423
Normalized	99.82%	100%
PostgreSQL - 100 - 500 - Read Only - Average Latency (ms)	0.277	0.277
PostgreSQL - 100 - 800 - Read Only (TPS)	1783440	1707442
Normalized	100%	95.74%
PostgreSQL - 100 - 800 - Read Only - Average Latency (ms)	0.449	0.469
Normalized	100%	95.74%
PostgreSQL - 100 - 100 - Read Write (TPS)	58725	58760
Normalized	99.94%	100%
PostgreSQL - 100 - 100 - Read Write - Average Latency (ms)	1.703	1.702
Normalized	99.94%	100%
PostgreSQL - 100 - 1000 - Read Only (TPS)	1638286	1745701
Normalized	93.85%	100%
PostgreSQL - 100 - 1000 - Read Only - Average Latency (ms)	0.61	0.573
Normalized	93.93%	100%
PostgreSQL - 100 - 250 - Read Write (TPS)	64820	65615
Normalized	98.79%	100%
PostgreSQL - 100 - 250 - Read Write - Average Latency (ms)	3.857	3.81
Normalized	98.78%	100%
PostgreSQL - 100 - 500 - Read Write (TPS)	62985	62982
Normalized	100%	100%
PostgreSQL - 100 - 500 - Read Write - Average Latency (ms)	7.938	7.939
Normalized	100%	99.99%
PostgreSQL - 100 - 800 - Read Write (TPS)	55873	55920
Normalized	99.92%	100%
PostgreSQL - 100 - 800 - Read Write - Average Latency (ms)	14.318	14.306
Normalized	99.92%	100%
PostgreSQL - 100 - 1000 - Read Write (TPS)	50653	50366
Normalized	100%	99.43%
PostgreSQL - 100 - 1000 - Read Write - Average Latency (ms)	19.742	19.855
Normalized	100%	99.43%
OpenVINO - F.D.F - CPU (FPS)	18.52	18.46
Normalized	100%	99.68%
OpenVINO - F.D.F - CPU (ms)	753.02	754.14
Normalized	100%	99.85%
OpenVINO - P.D.F - CPU (FPS)	9.85	9.89

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Normalized	99.6%	100%
OpenVINO - P.D.F - CPU (ms)	1408	1404
Normalized	99.74%	100%
OpenVINO - P.D.F - CPU (FPS)	9.73	9.7
Normalized	100%	99.69%
OpenVINO - P.D.F - CPU (ms)	1429	1431
Normalized	100%	99.9%
OpenVINO - V.D.F - CPU (FPS)	682.54	672.12
Normalized	100%	98.47%
OpenVINO - V.D.F - CPU (ms)	20.45	20.78
Normalized	100%	98.41%
OpenVINO - F.D.F.I - CPU (FPS)	69.52	69.6
Normalized	99.89%	100%
OpenVINO - F.D.F.I - CPU (ms)	201.21	200.93
Normalized	99.86%	100%
OpenVINO - V.D.F.I - CPU (FPS)	2889	2889
Normalized	99.98%	100%
OpenVINO - V.D.F.I - CPU (ms)	4.82	4.82
OpenVINO - W.P.D.F - CPU (FPS)	1819	1824
Normalized	99.71%	100%
OpenVINO - W.P.D.F - CPU (ms)	30.67	30.59
Normalized	99.74%	100%
OpenVINO - M.T.E.T.D.F - CPU (FPS)	187.05	186.77
Normalized	100%	99.85%
OpenVINO - M.T.E.T.D.F - CPU (ms)	74.75	74.85
Normalized	100%	99.87%
OpenVINO - W.P.D.F.I - CPU (FPS)	6929	6948
Normalized	99.72%	100%
OpenVINO - W.P.D.F.I - CPU (ms)	8.07	8.05
Normalized	99.75%	100%
OpenVINO - P.V.B.D.F - CPU (FPS)	1290	1287
Normalized	100%	99.79%
OpenVINO - P.V.B.D.F - CPU (ms)	10.81	10.83
Normalized	100%	99.82%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	48267	48001
Normalized	100%	99.45%
OpenVINO - A.G.R.R.0.F - CPU (ms)	1.15	1.15
OpenVINO - A.G.R.R.0.F.I - CPU (FPS)	53594	53496
Normalized	100%	99.82%
OpenVINO - A.G.R.R.0.F.I - CPU (ms)	1.03	1.03
BRL-CAD - V.P.M (VGR Performance Metric)	405341	401379
Normalized	100%	99.02%

Kvazaar 2.2

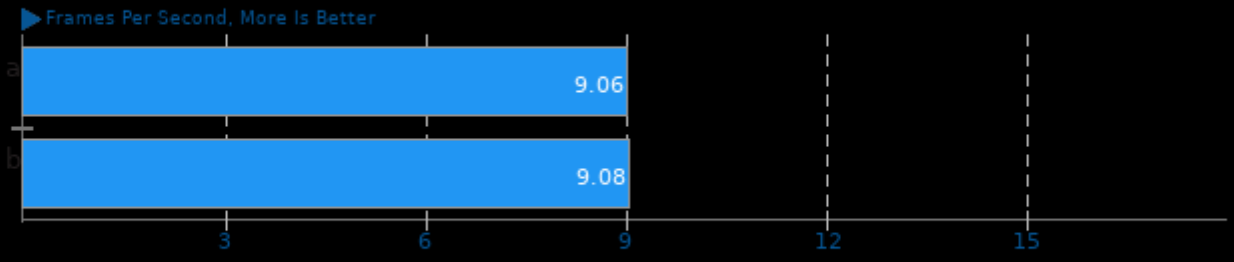
Video Input: Bosphorus 4K - Video Preset: Slow



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.2

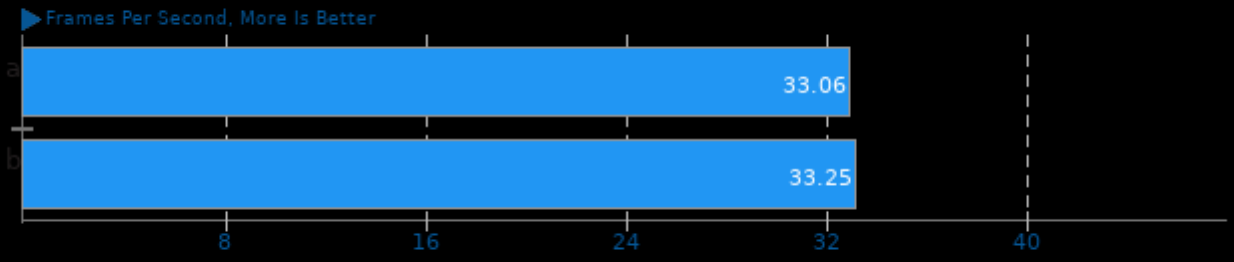
Video Input: Bosphorus 4K - Video Preset: Medium



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.2

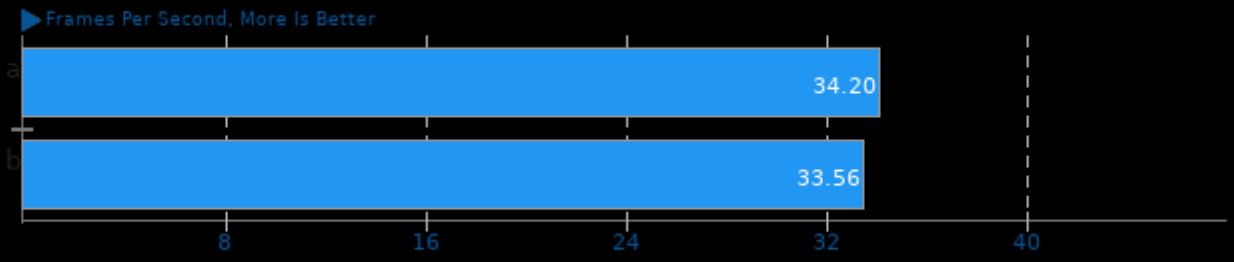
Video Input: Bosphorus 1080p - Video Preset: Slow



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.2

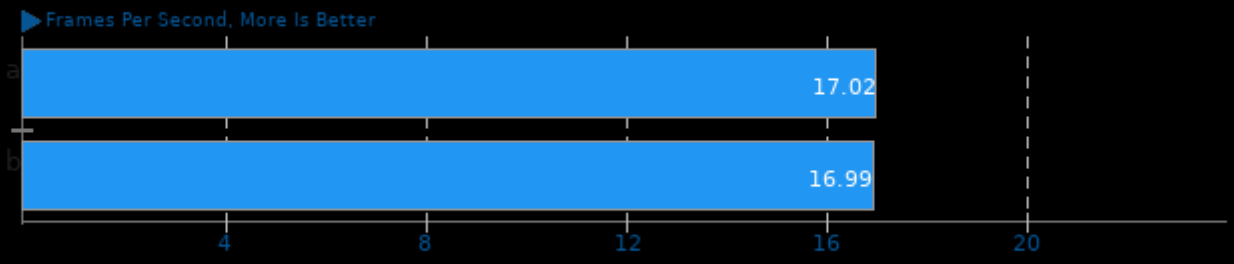
Video Input: Bosphorus 1080p - Video Preset: Medium



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.2

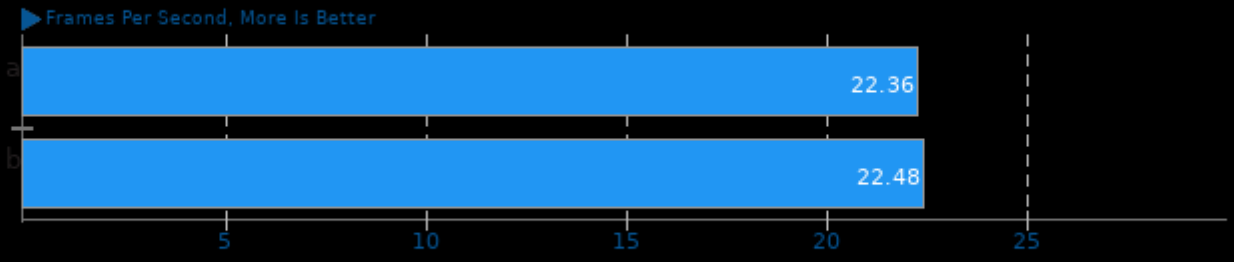
Video Input: Bosphorus 4K - Video Preset: Very Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.2

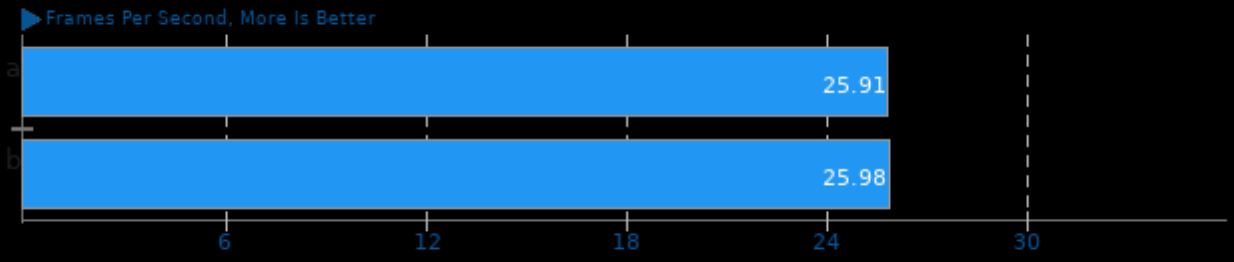
Video Input: Bosphorus 4K - Video Preset: Super Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.2

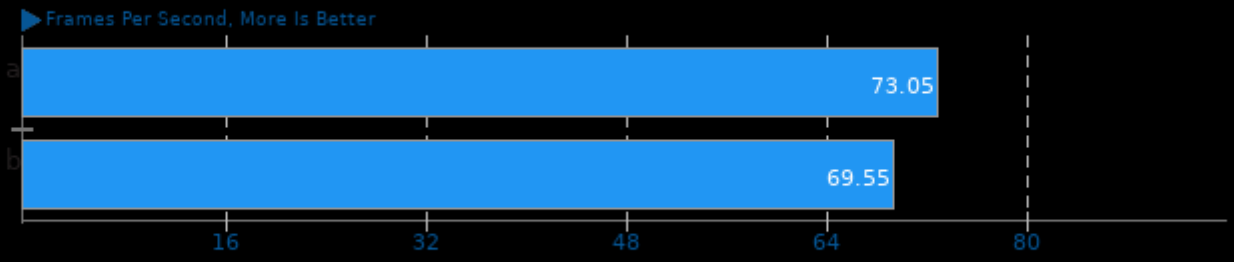
Video Input: Bosphorus 4K - Video Preset: Ultra Fast



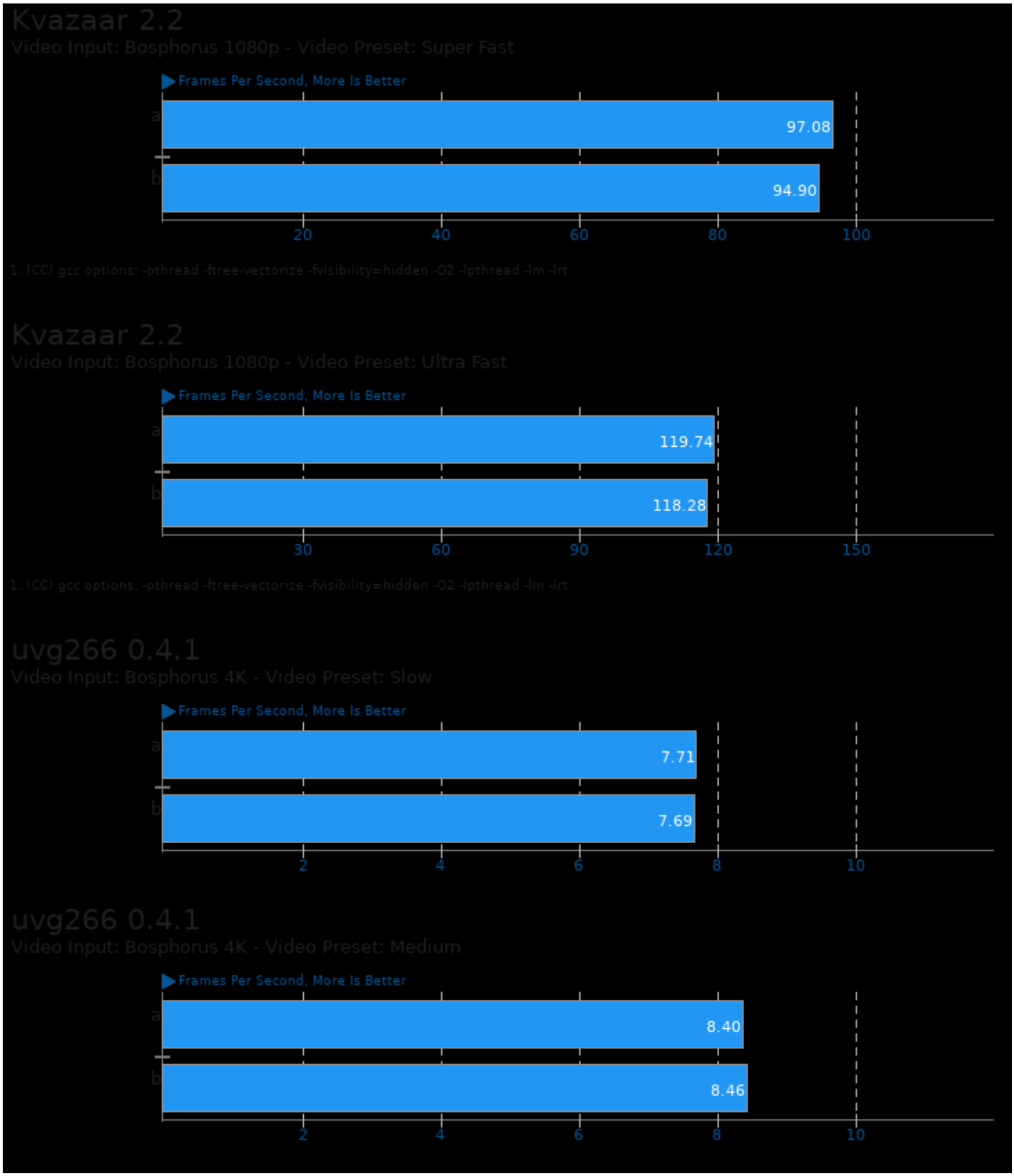
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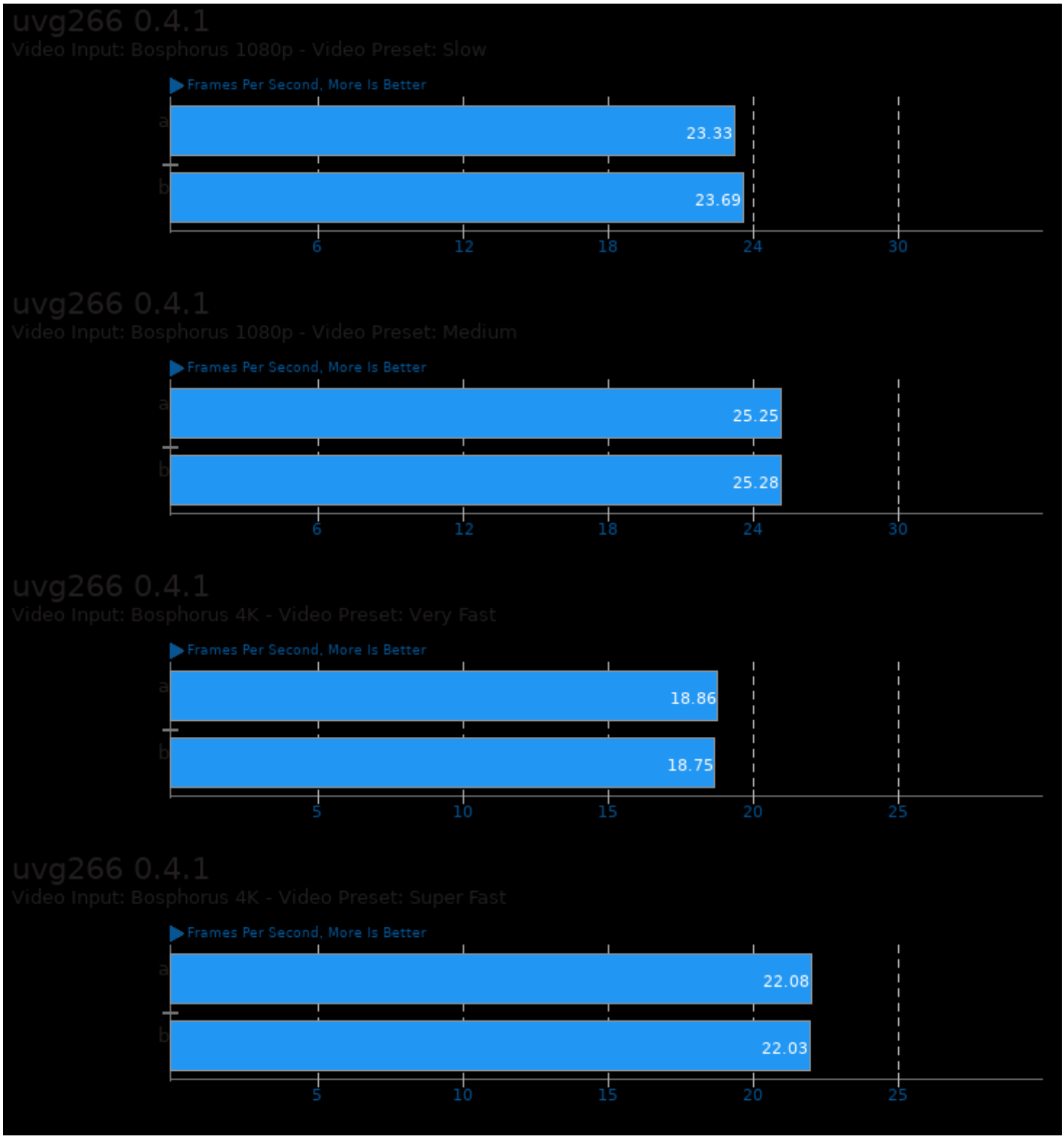
Kvazaar 2.2

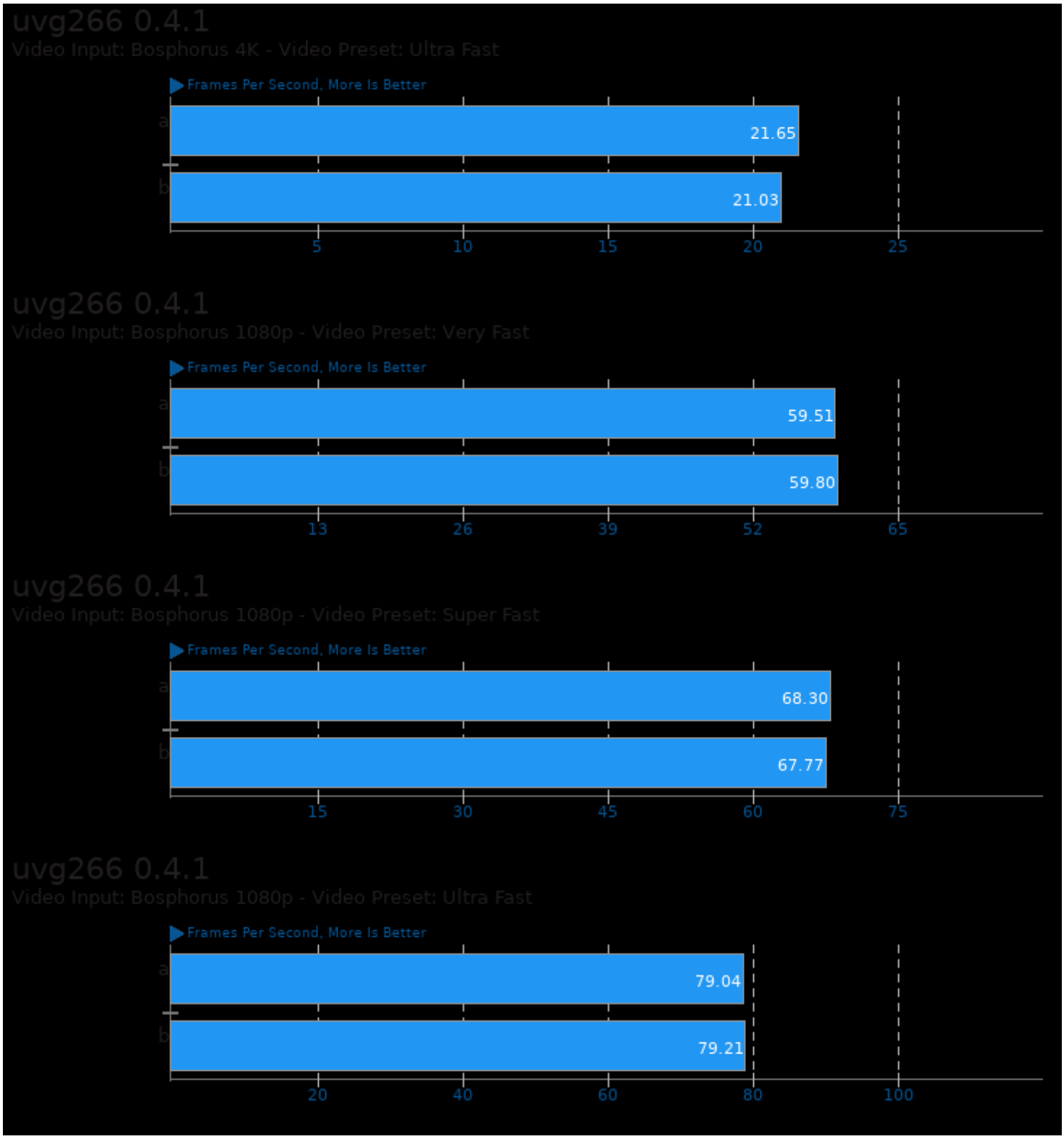
Video Input: Bosphorus 1080p - Video Preset: Very Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

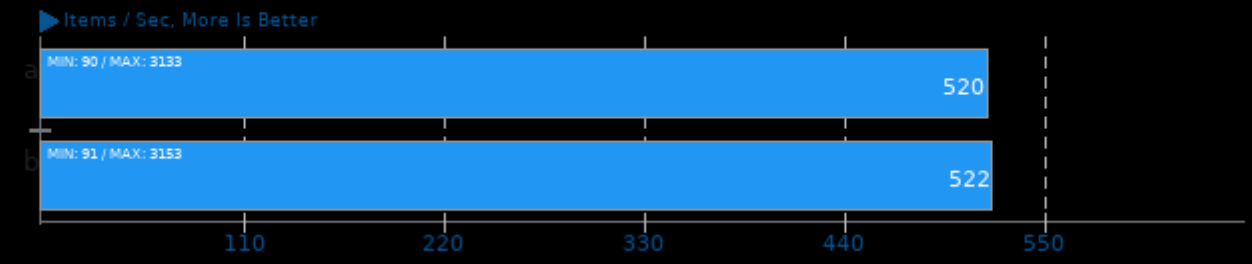

Kvazaar 2.2
Video Input: Bosphorus 1080p - Video Preset: Super Fast
Frames Per Second, More Is Better
a
97.08
b
94.90
20
40
60
80
100
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.2
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast
Frames Per Second, More Is Better
a
119.74
b
118.28
30
60
90
120
150
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
uvg266 0.4.1
Video Input: Bosphorus 4K - Video Preset: Slow
Frames Per Second, More Is Better
a
7.71
b
7.69
2
4
6
8
10
uvg266 0.4.1
Video Input: Bosphorus 4K - Video Preset: Medium
Frames Per Second, More Is Better
a
8.40
b
8.46
2
4
6
8
10


uvg266 0.4.1
Video Input: Bosphorus 1080p - Video Preset: Slow
Frames Per Second, More Is Better
a
23.33
b
23.69
6
12
18
24
30
uvg266 0.4.1
Video Input: Bosphorus 1080p - Video Preset: Medium
Frames Per Second, More Is Better
a
25.25
b
25.28
6
12
18
24
30
uvg266 0.4.1
Video Input: Bosphorus 4K - Video Preset: Very Fast
Frames Per Second, More Is Better
a
18.86
b
18.75
5
10
15
20
25
uvg266 0.4.1
Video Input: Bosphorus 4K - Video Preset: Super Fast
Frames Per Second, More Is Better
a
22.08
b
22.03
5
10
15
20
25


uvg266 0.4.1
Video Input: Bosphorus 4K - Video Preset: Ultra Fast
Frames Per Second, More Is Better
a
21.65
b
21.03
5
10
15
20
25
uvg266 0.4.1
Video Input: Bosphorus 1080p - Video Preset: Very Fast
Frames Per Second, More Is Better
a
59.51
b
59.80
13
26
39
52
65
uvg266 0.4.1
Video Input: Bosphorus 1080p - Video Preset: Super Fast
Frames Per Second, More Is Better
a
68.30
b
67.77
15
30
45
60
75
uvg266 0.4.1
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast
Frames Per Second, More Is Better
a
79.04
b
79.21
20
40
60
80
100

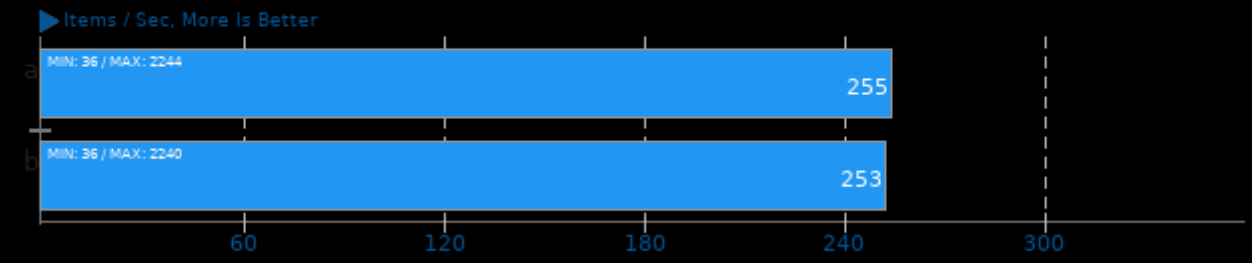
OpenVKL 1.3.1

Benchmark: vklBenchmark ISPC



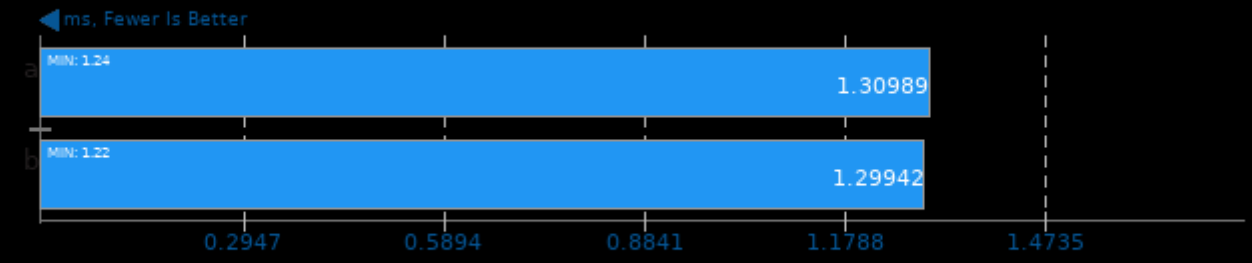
OpenVKL 1.3.1

Benchmark: vklBenchmark Scalar



oneDNN 3.0

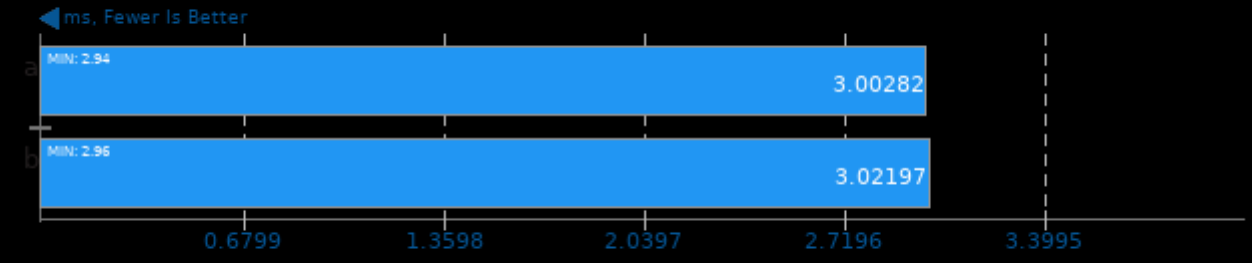
Harness: IP Shapes 1D - Data Type: f32 - Engine: CPU



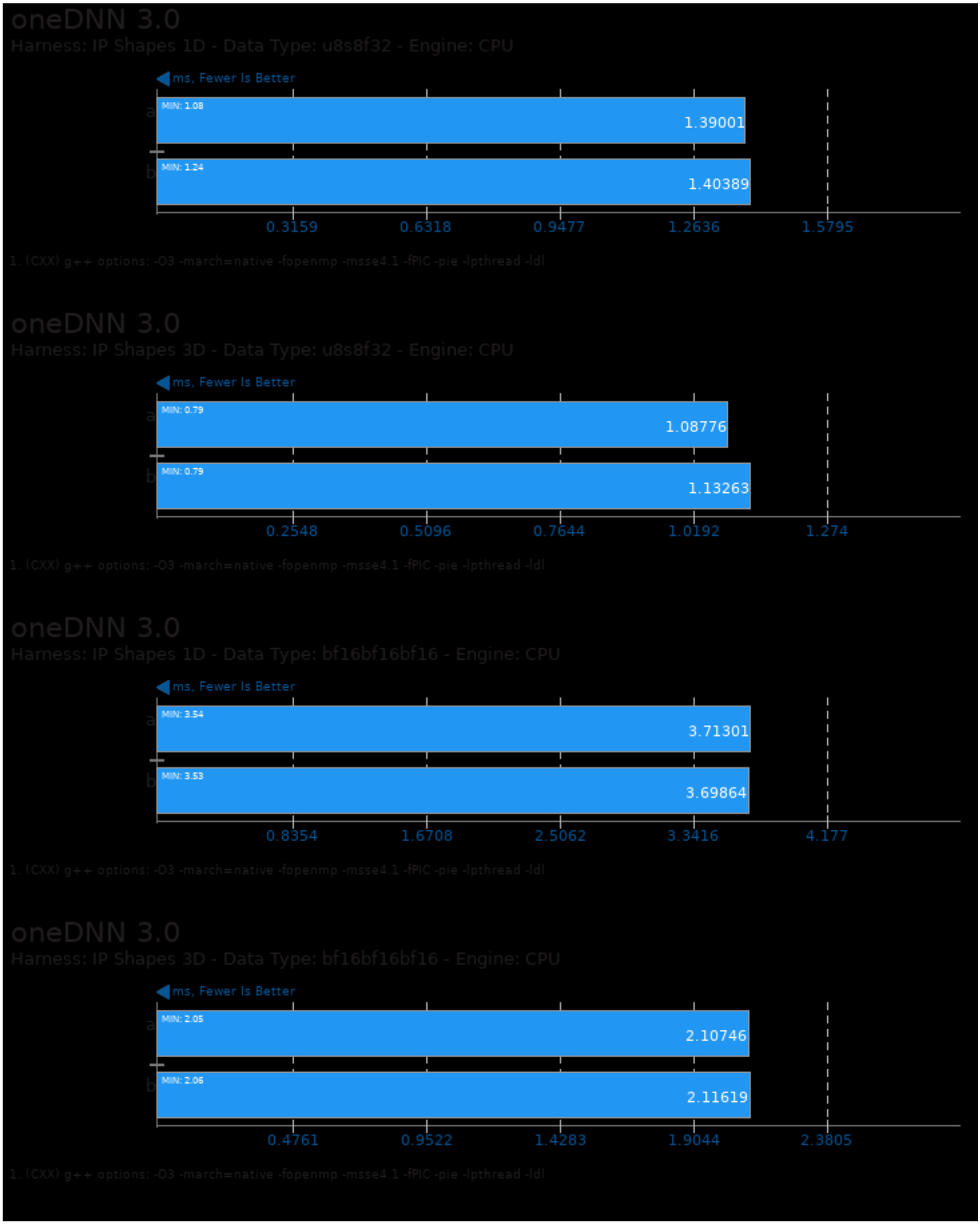
1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 3.0

Harness: IP Shapes 3D - Data Type: f32 - Engine: CPU

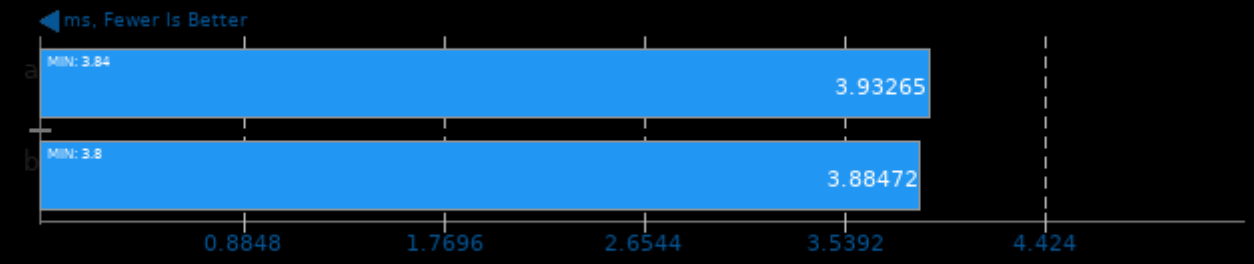


1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl


oneDNN 3.0
Harness: IP Shapes 1D - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
a
MIN: 1.08
1.39001
b
MIN: 1.24
1.40389
0.3159
0.6318
0.9477
1.2636
1.5795
1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 3.0
Harness: IP Shapes 3D - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
a
MIN: 0.79
1.08776
b
MIN: 0.79
1.13263
0.2548
0.5096
0.7644
1.0192
1.274
1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 3.0
Harness: IP Shapes 1D - Data Type: bf16bf16bf16 - Engine: CPU
ms, Fewer Is Better
a
MIN: 3.54
3.71301
b
MIN: 3.53
3.69864
0.8354
1.6708
2.5062
3.3416
4.177
1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 3.0
Harness: IP Shapes 3D - Data Type: bf16bf16bf16 - Engine: CPU
ms, Fewer Is Better
a
MIN: 2.05
2.10746
b
MIN: 2.06
2.11619
0.4761
0.9522
1.4283
1.9044
2.3805
1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 3.0

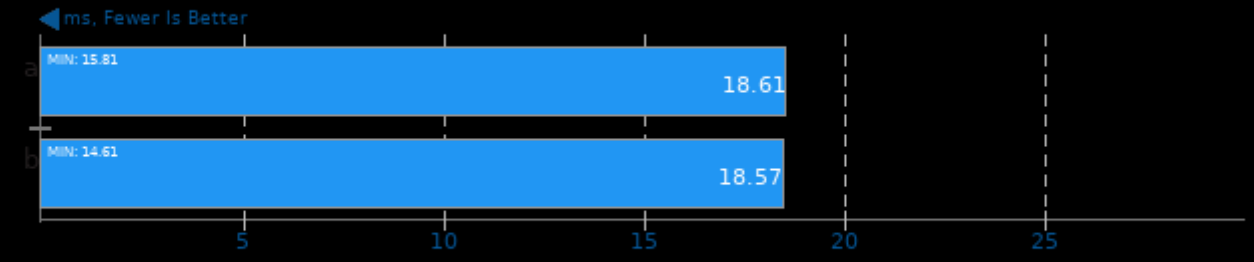
Harness: Convolution Batch Shapes Auto - Data Type: f32 - Engine: CPU



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

oneDNN 3.0

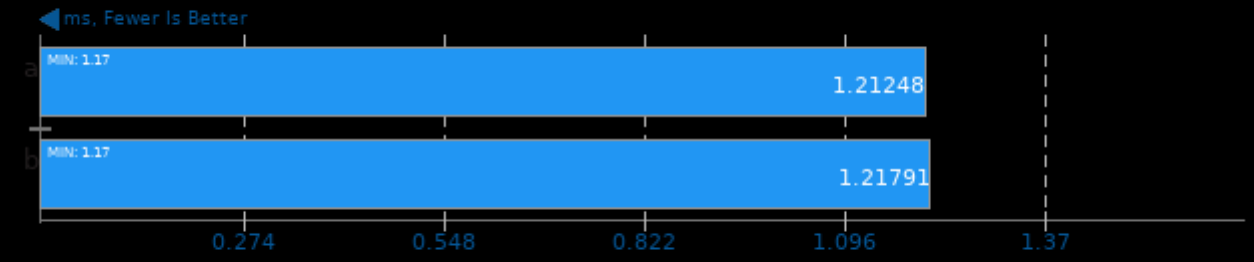
Harness: Deconvolution Batch shapes_1d - Data Type: f32 - Engine: CPU



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

oneDNN 3.0

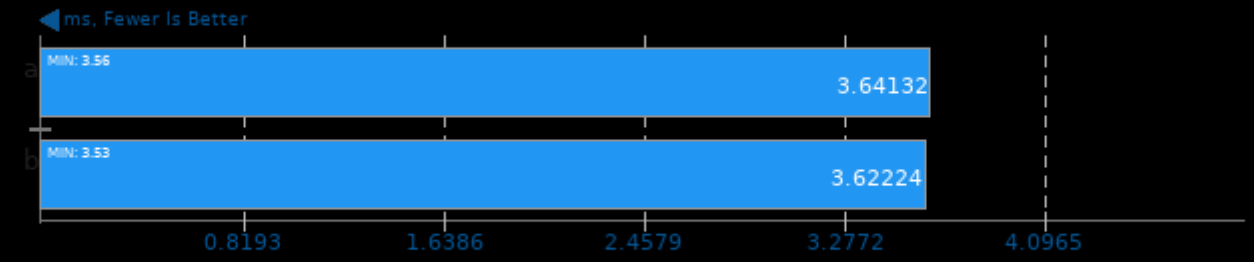
Harness: Deconvolution Batch shapes_3d - Data Type: f32 - Engine: CPU



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

oneDNN 3.0

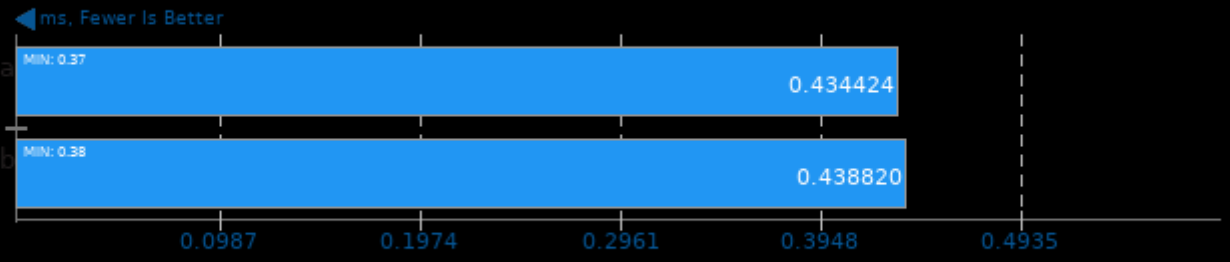
Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 3.0

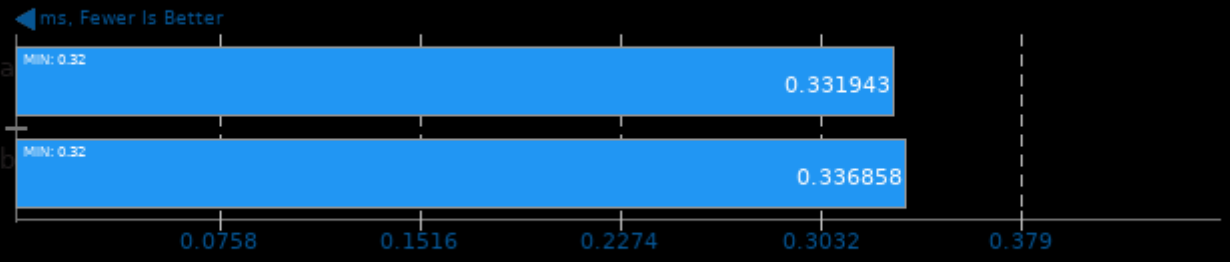
Harness: Deconvolution Batch shapes_1d - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 3.0

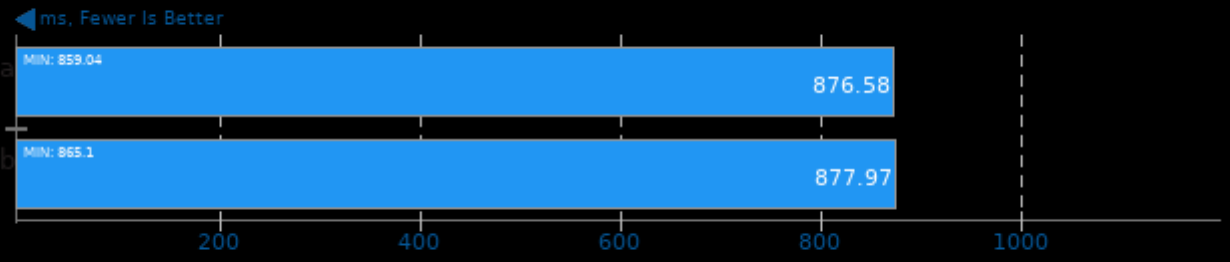
Harness: Deconvolution Batch shapes_3d - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 3.0

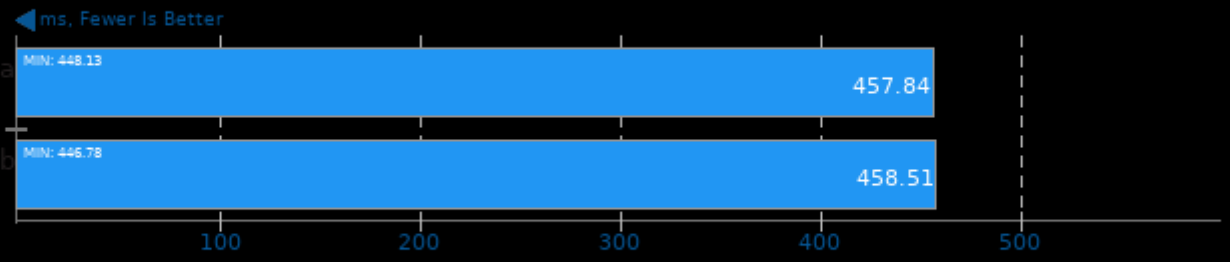
Harness: Recurrent Neural Network Training - Data Type: f32 - Engine: CPU



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

oneDNN 3.0

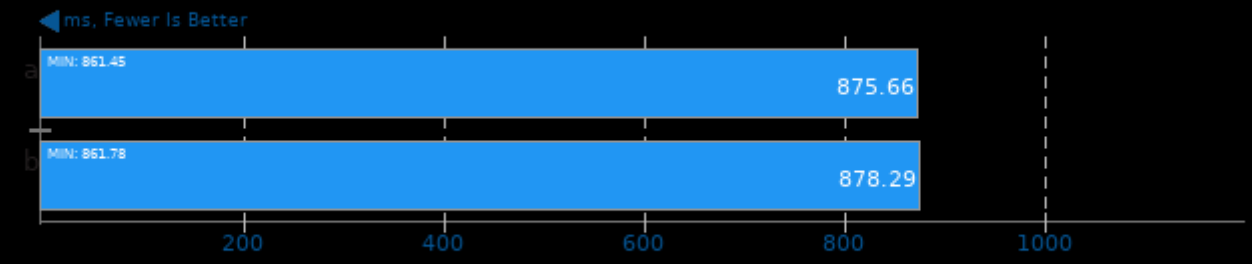
Harness: Recurrent Neural Network Inference - Data Type: f32 - Engine: CPU



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

oneDNN 3.0

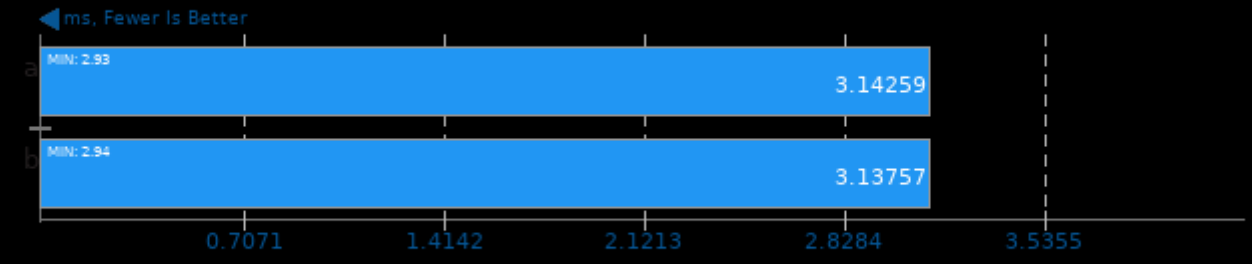
Harness: Recurrent Neural Network Training - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 3.0

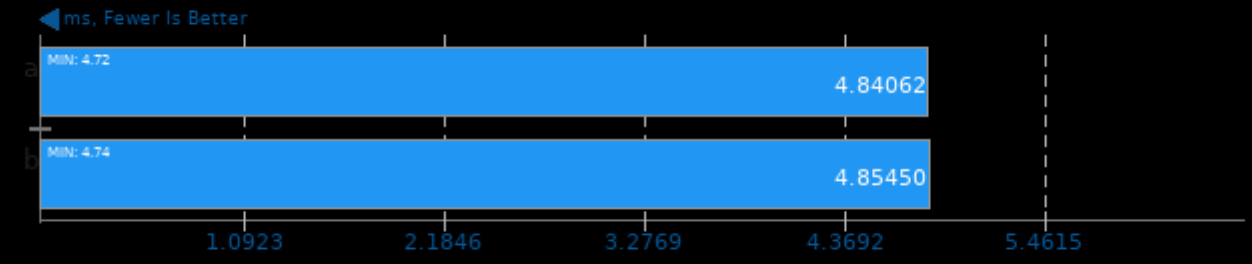
Harness: Convolution Batch Shapes Auto - Data Type: bf16bf16bf16 - Engine: CPU



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

oneDNN 3.0

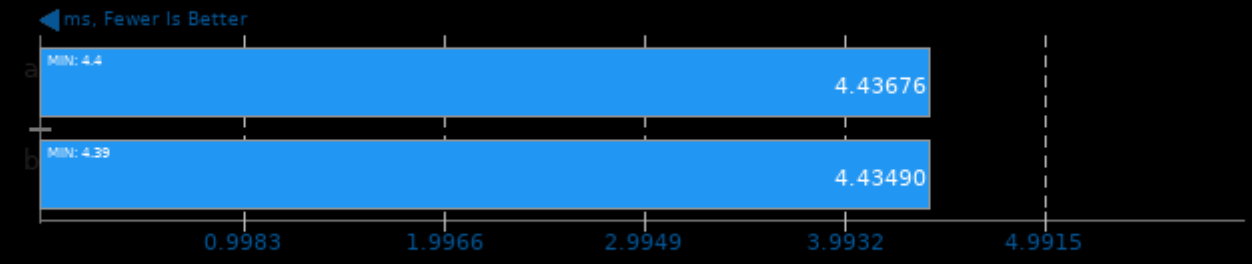
Harness: Deconvolution Batch shapes_1d - Data Type: bf16bf16bf16 - Engine: CPU



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

oneDNN 3.0

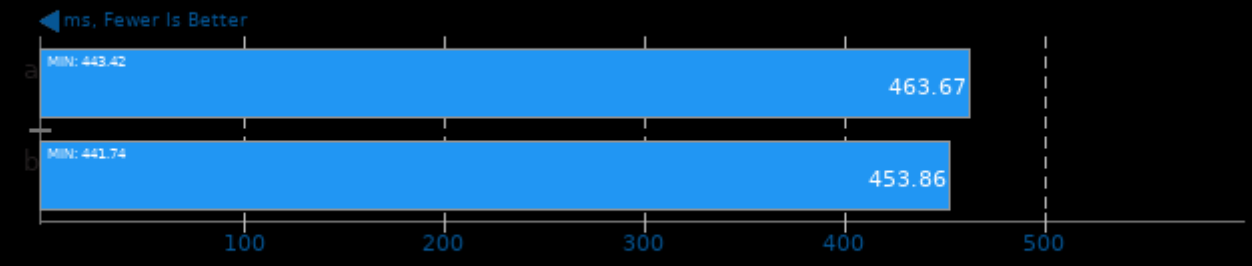
Harness: Deconvolution Batch shapes_3d - Data Type: bf16bf16bf16 - Engine: CPU



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

oneDNN 3.0

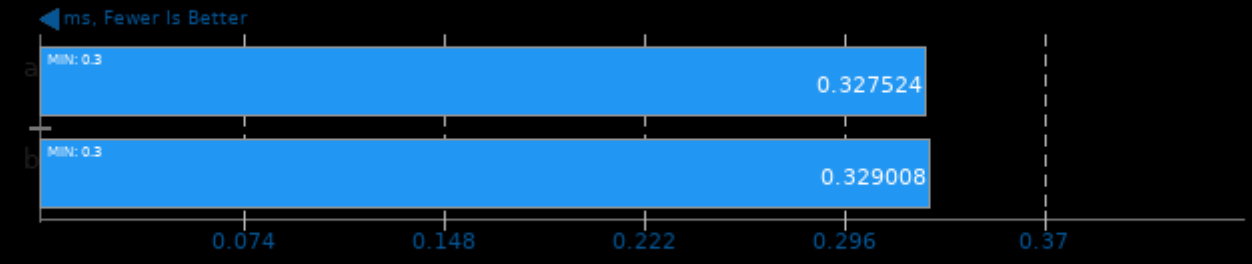
Harness: Recurrent Neural Network Inference - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 3.0

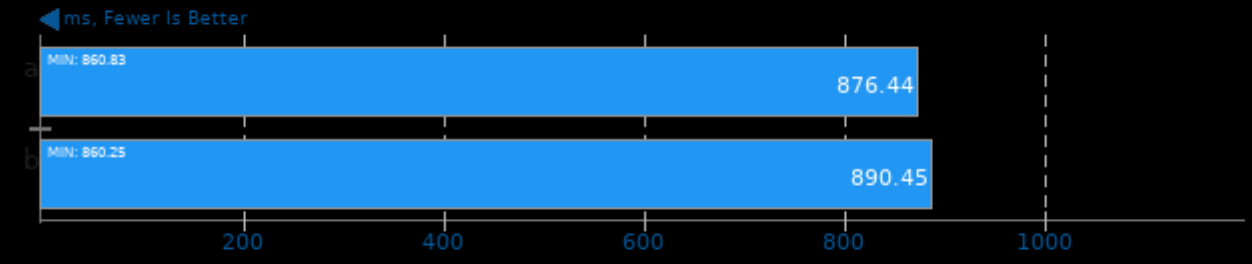
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU



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

oneDNN 3.0

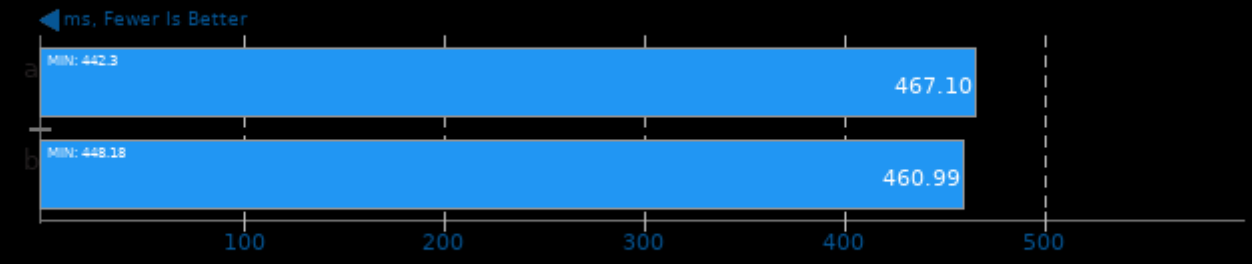
Harness: Recurrent Neural Network Training - Data Type: bf16bf16bf16 - Engine: CPU



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

oneDNN 3.0

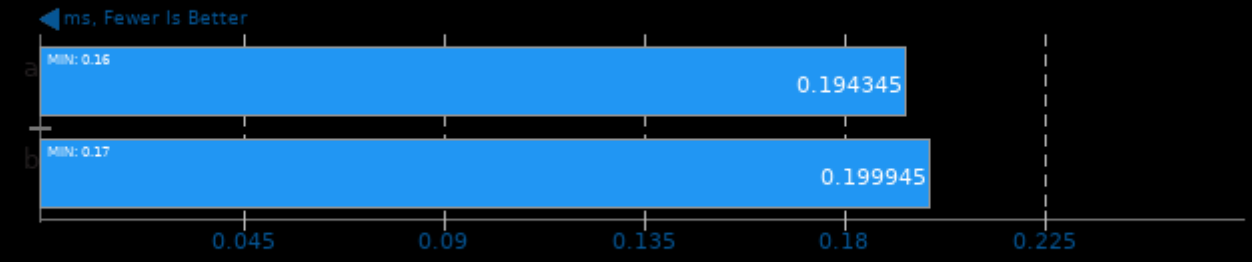
Harness: Recurrent Neural Network Inference - Data Type: bf16bf16bf16 - Engine: CPU



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

oneDNN 3.0

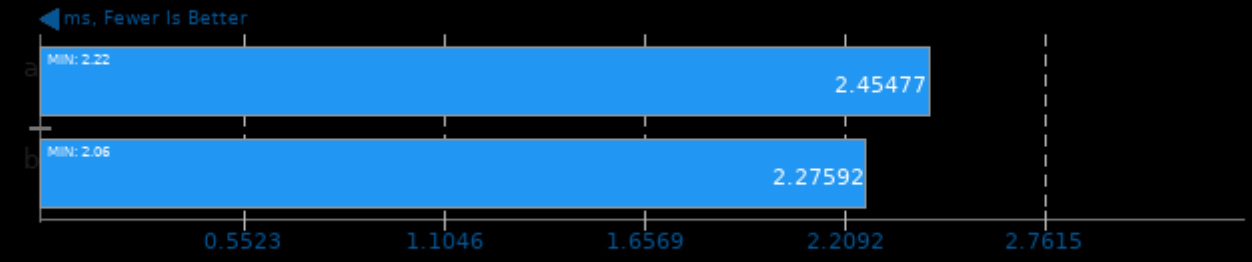
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 3.0

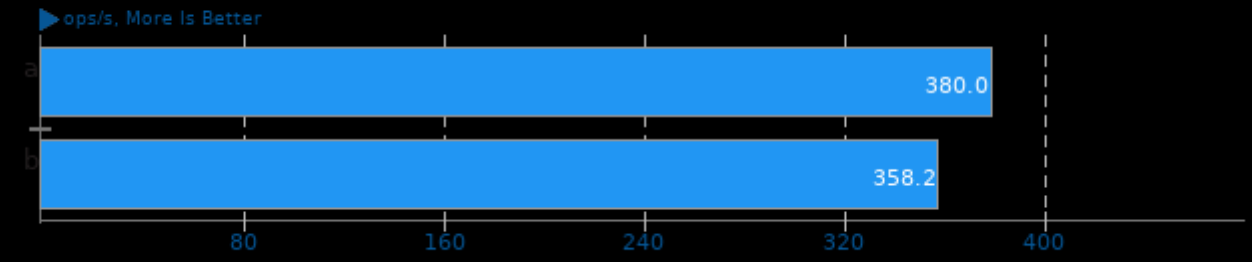
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: bf16bf16bf16 - Engine: CPU



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

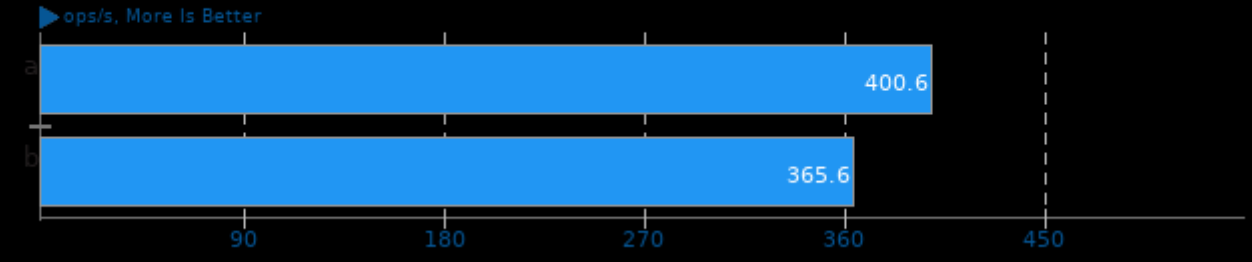
CockroachDB 22.2

Workload: MoVR - Concurrency: 128

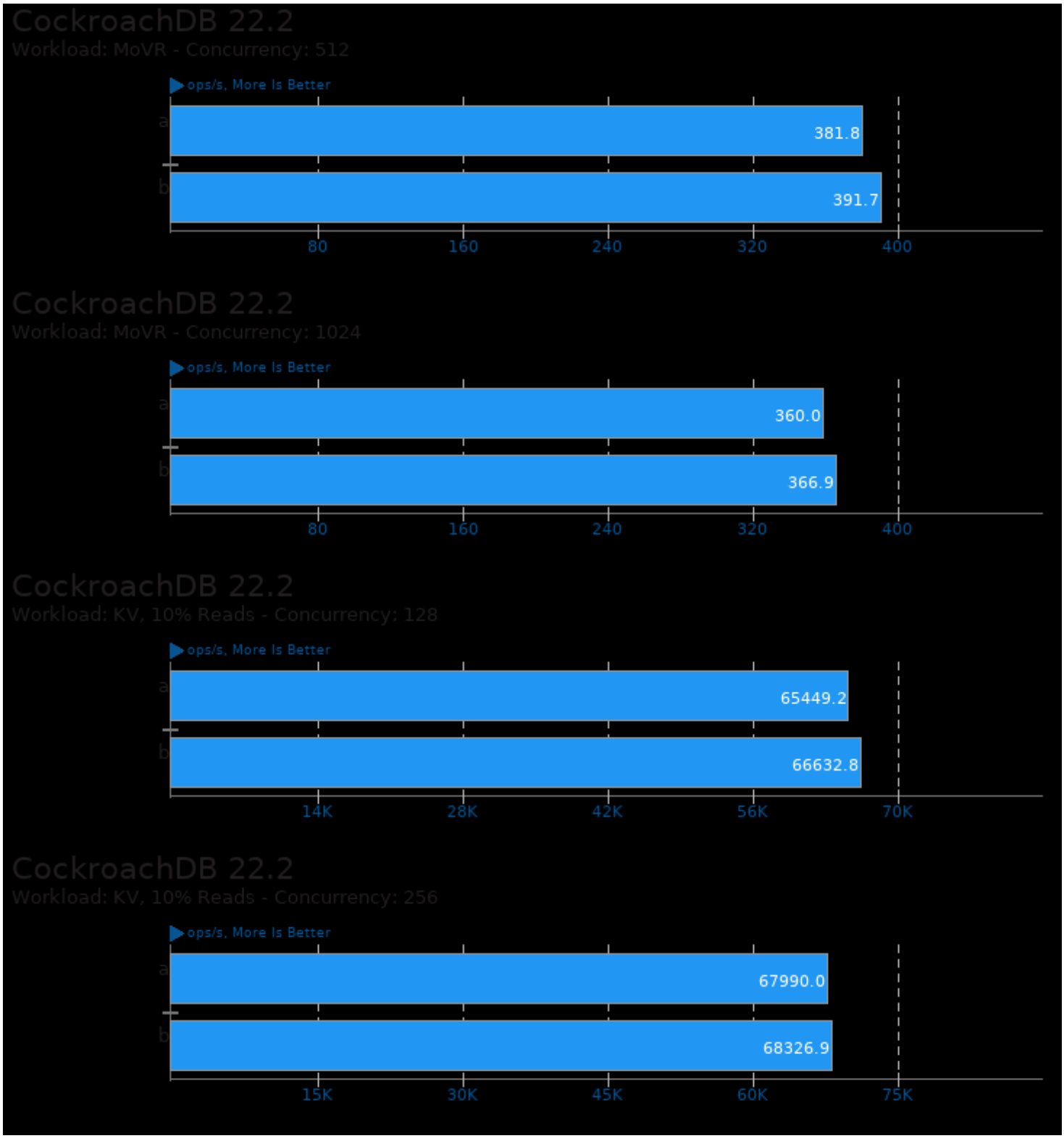


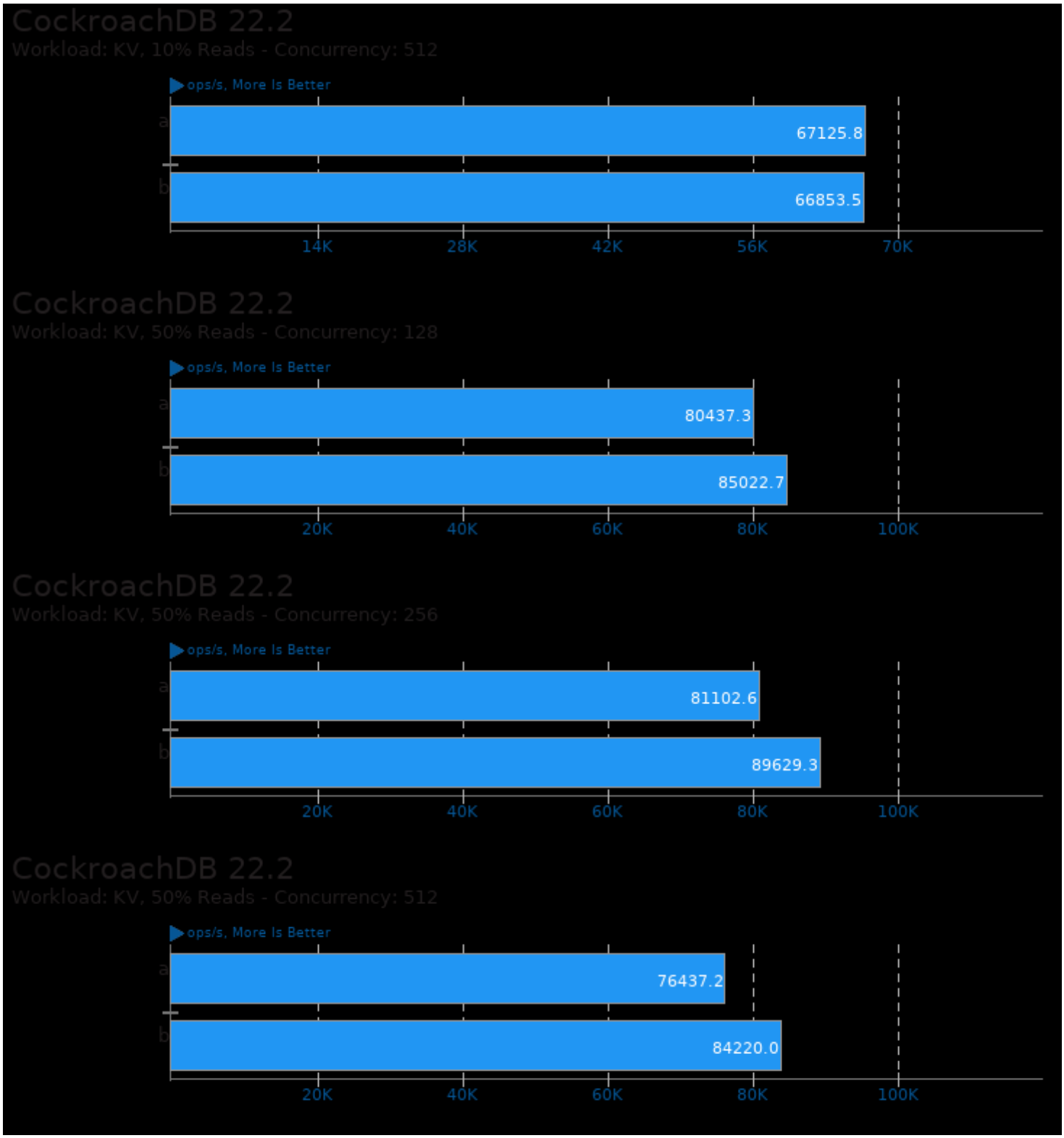
CockroachDB 22.2

Workload: MoVR - Concurrency: 256

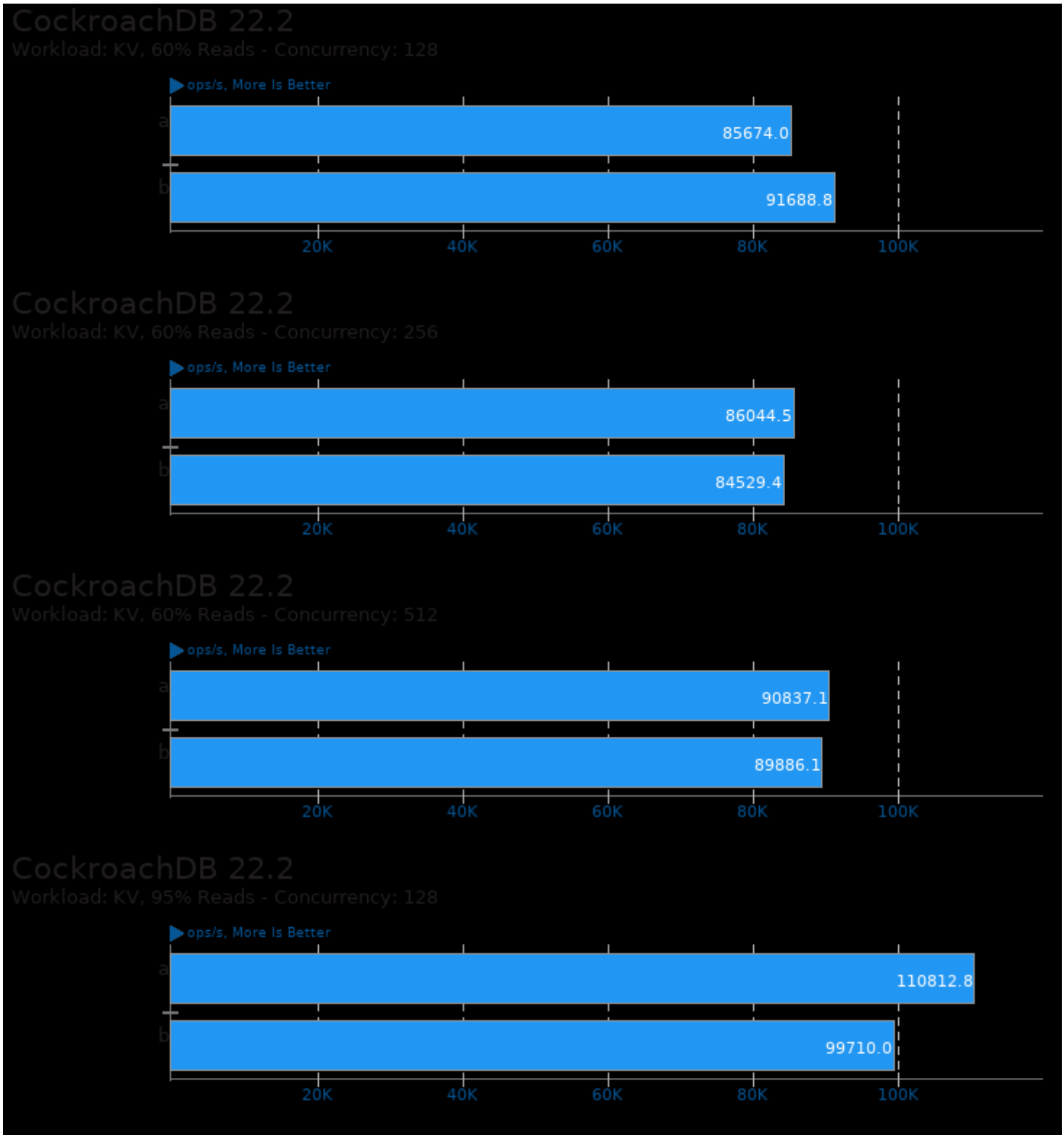


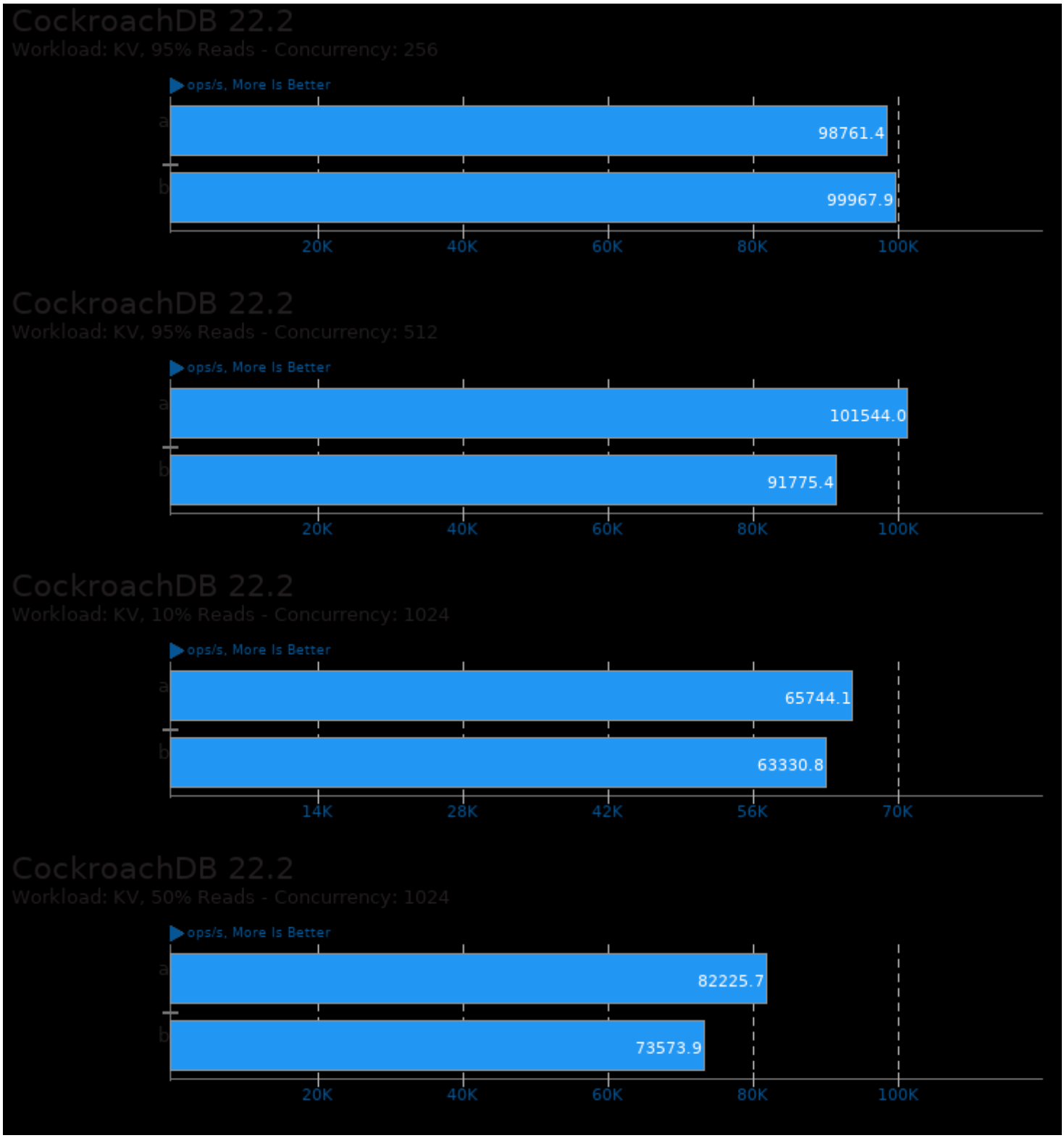
xeon platinum 8280 2023




CockroachDB 22.2
Workload: KV, 10% Reads - Concurrency: 512
ops/s, More Is Better
a
67125.8
b
66853.5
14K
28K
42K
56K
70K
CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 128
ops/s, More Is Better
a
80437.3
b
85022.7
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 256
ops/s, More Is Better
a
81102.6
b
89629.3
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 512
ops/s, More Is Better
a
76437.2
b
84220.0
20K
40K
60K
80K
100K

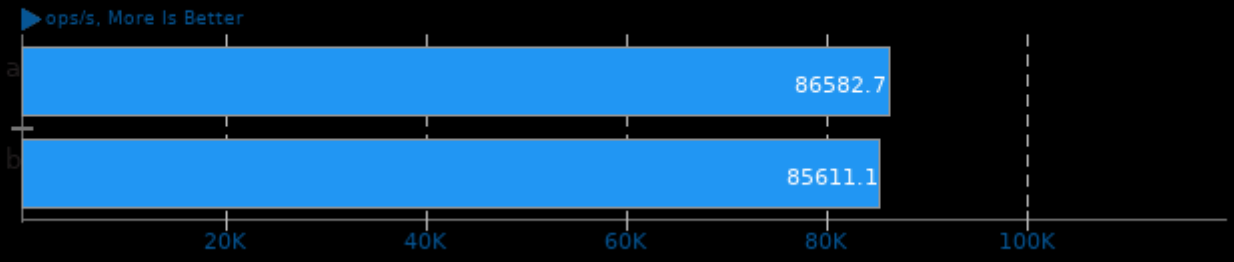
xeon platinum 8280 2023




CockroachDB 22.2
Workload: KV, 95% Reads - Concurrency: 256
ops/s, More Is Better
a
98761.4
b
99967.9
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 95% Reads - Concurrency: 512
ops/s, More Is Better
a
101544.0
b
91775.4
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 10% Reads - Concurrency: 1024
ops/s, More Is Better
a
65744.1
b
63330.8
14K
28K
42K
56K
70K
CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 1024
ops/s, More Is Better
a
82225.7
b
73573.9
20K
40K
60K
80K
100K

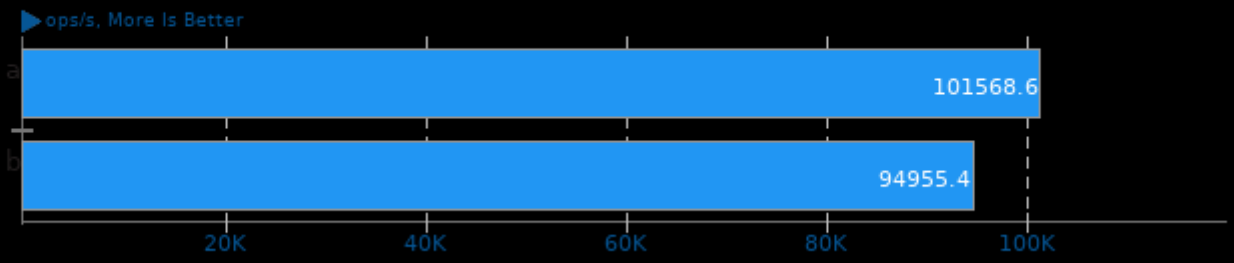
CockroachDB 22.2

Workload: KV, 60% Reads - Concurrency: 1024



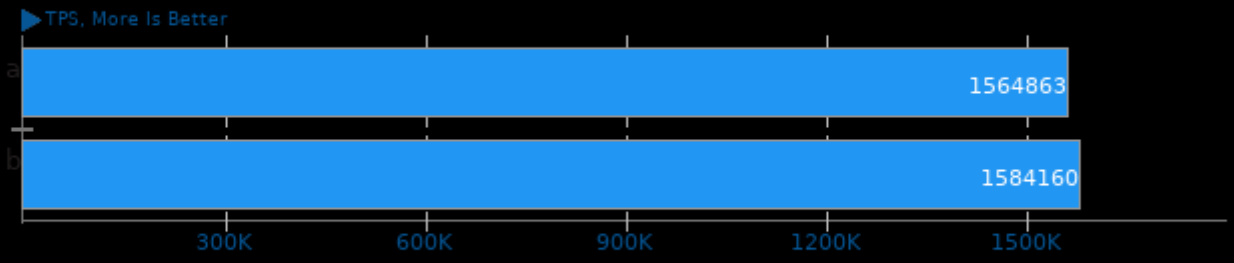
CockroachDB 22.2

Workload: KV, 95% Reads - Concurrency: 1024



PostgreSQL 15

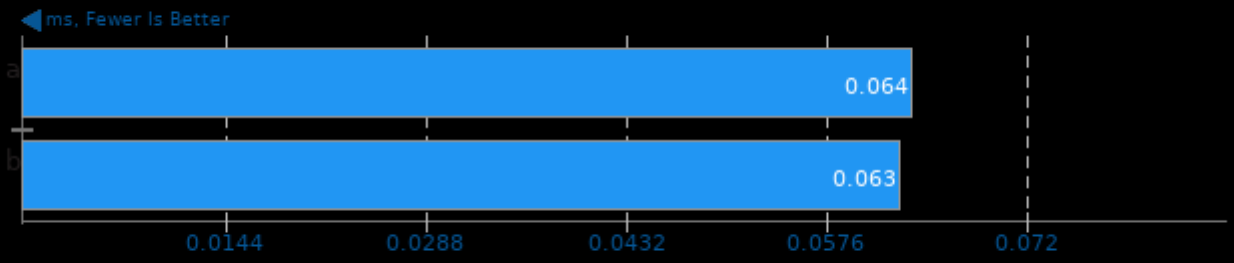
Scaling Factor: 1 - Clients: 100 - Mode: Read Only



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

PostgreSQL 15

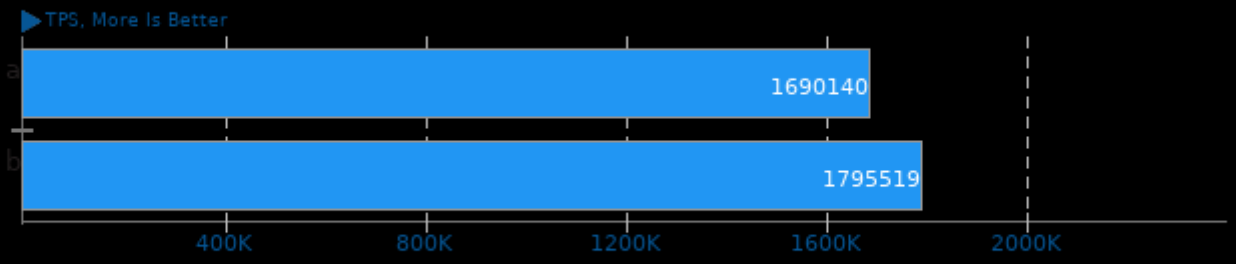
Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency



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

PostgreSQL 15

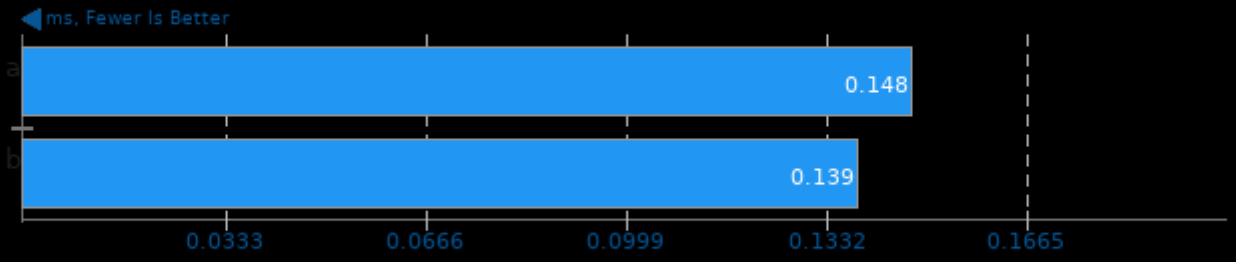
Scaling Factor: 1 - Clients: 250 - Mode: Read Only



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

PostgreSQL 15

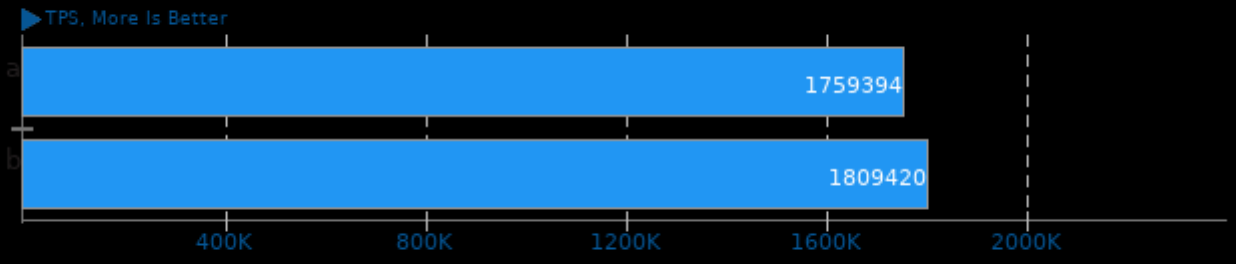
Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency



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

PostgreSQL 15

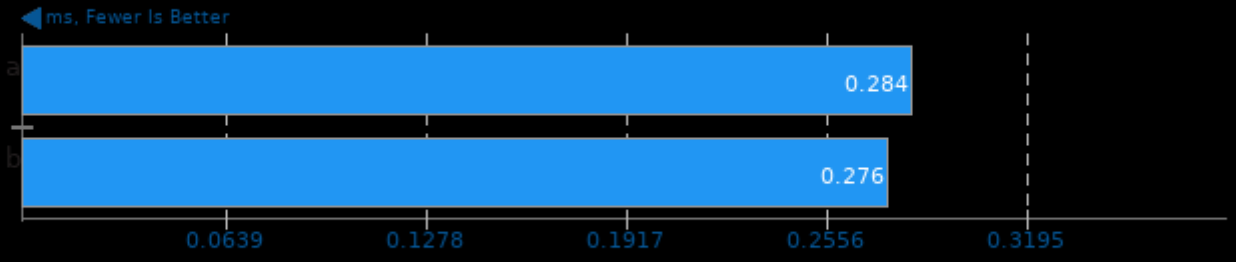
Scaling Factor: 1 - Clients: 500 - Mode: Read Only



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

PostgreSQL 15

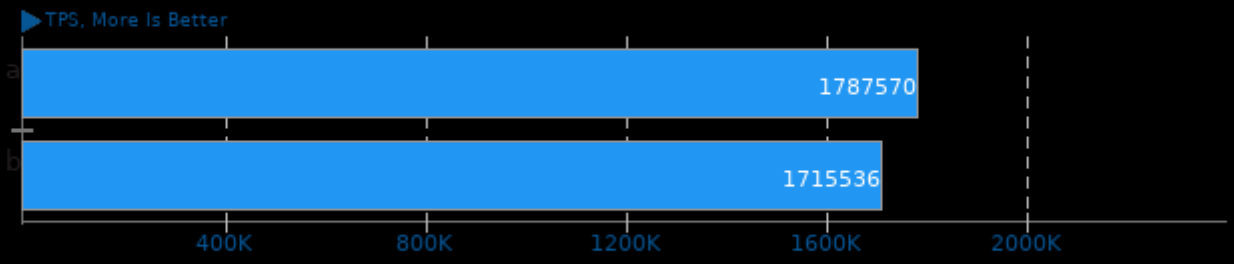
Scaling Factor: 1 - Clients: 500 - Mode: Read Only - Average Latency



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

PostgreSQL 15

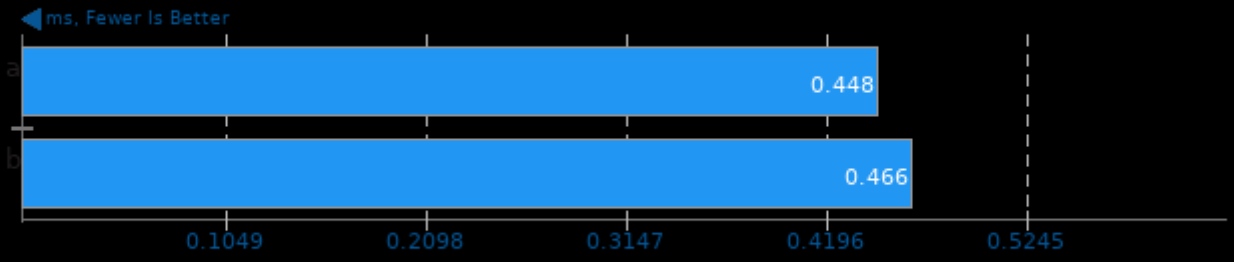
Scaling Factor: 1 - Clients: 800 - Mode: Read Only



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

PostgreSQL 15

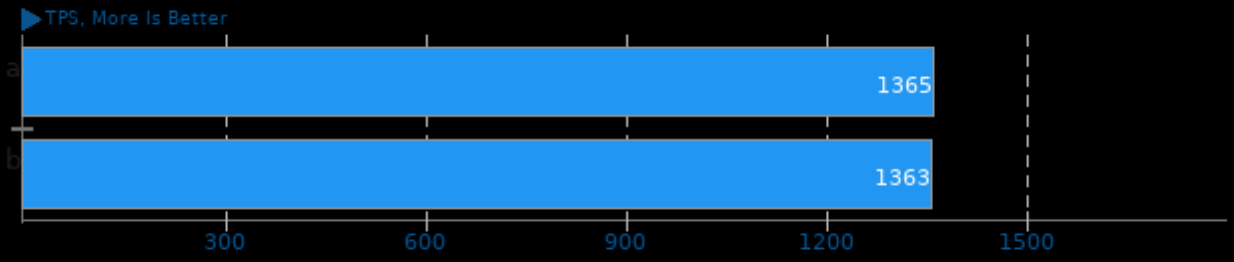
Scaling Factor: 1 - Clients: 800 - Mode: Read Only - Average Latency



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

PostgreSQL 15

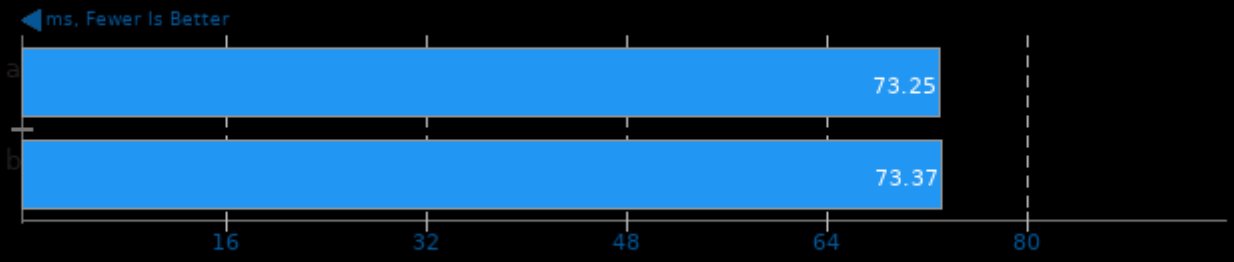
Scaling Factor: 1 - Clients: 100 - Mode: Read Write



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

PostgreSQL 15

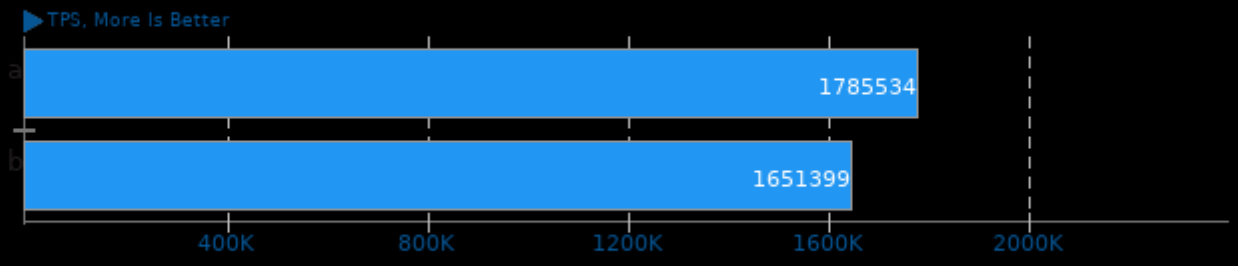
Scaling Factor: 1 - Clients: 100 - Mode: Read Write - Average Latency



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

PostgreSQL 15

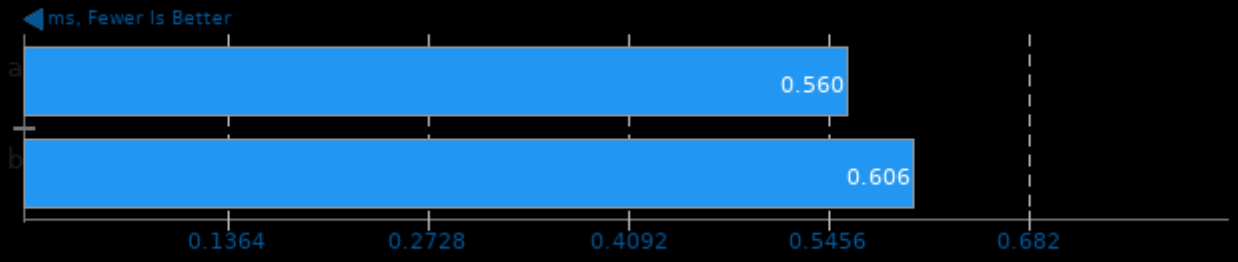
Scaling Factor: 1 - Clients: 1000 - Mode: Read Only



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

PostgreSQL 15

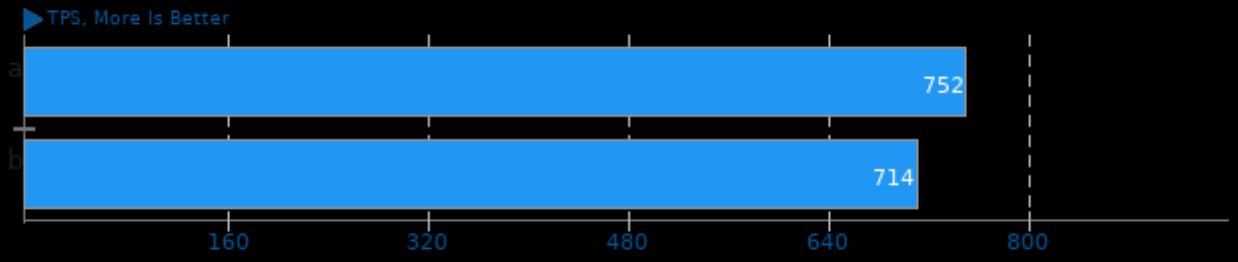
Scaling Factor: 1 - Clients: 1000 - Mode: Read Only - Average Latency



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

PostgreSQL 15

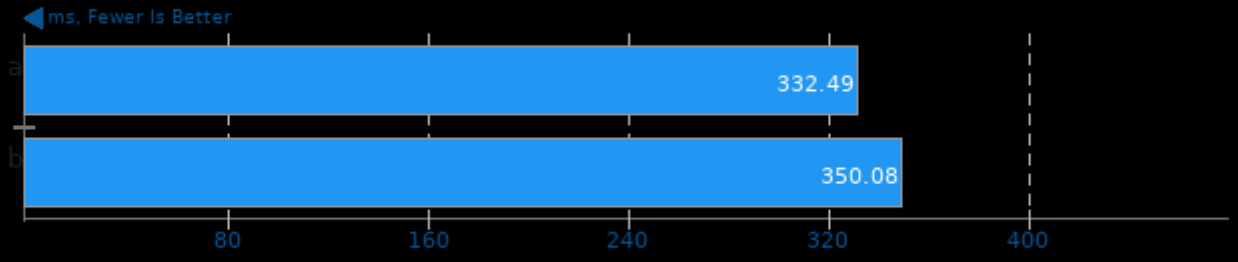
Scaling Factor: 1 - Clients: 250 - Mode: Read Write



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

PostgreSQL 15

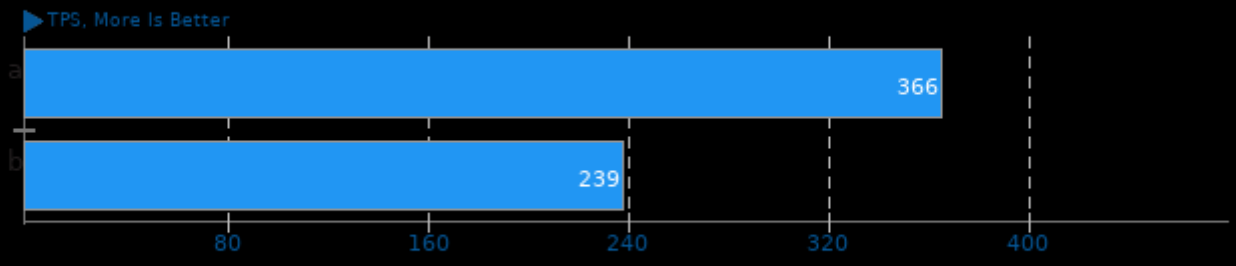
Scaling Factor: 1 - Clients: 250 - Mode: Read Write - Average Latency



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

PostgreSQL 15

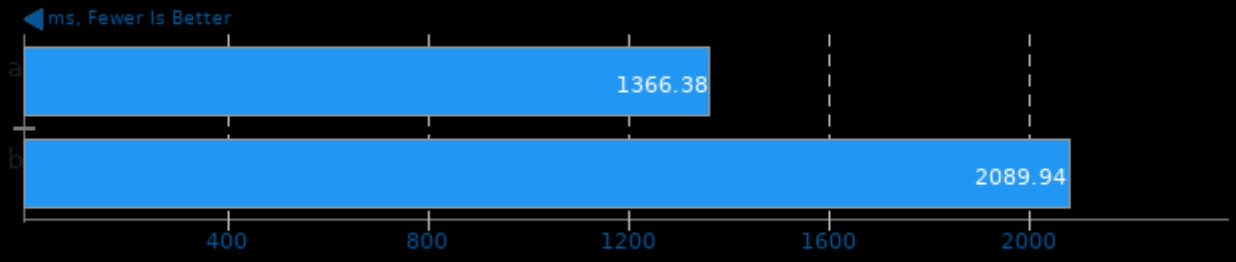
Scaling Factor: 1 - Clients: 500 - Mode: Read Write



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

PostgreSQL 15

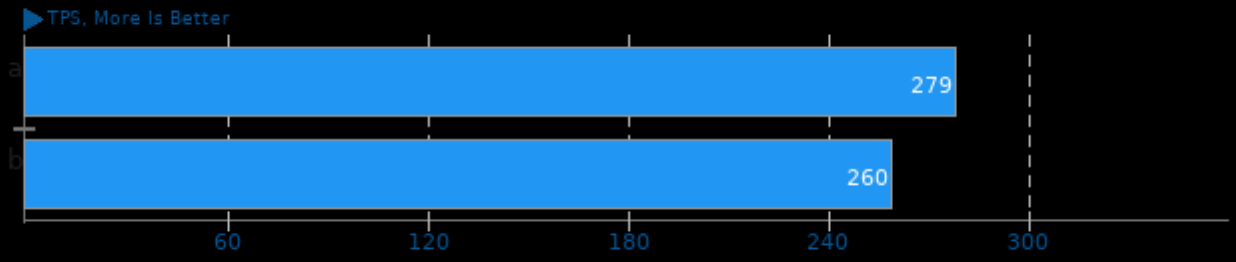
Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency



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

PostgreSQL 15

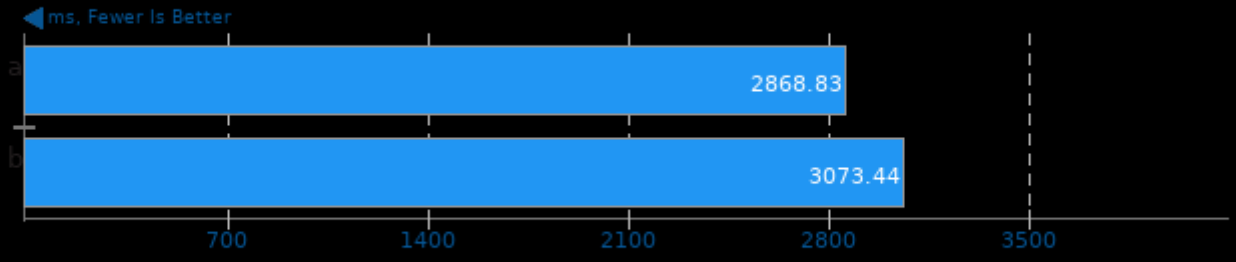
Scaling Factor: 1 - Clients: 800 - Mode: Read Write



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

PostgreSQL 15

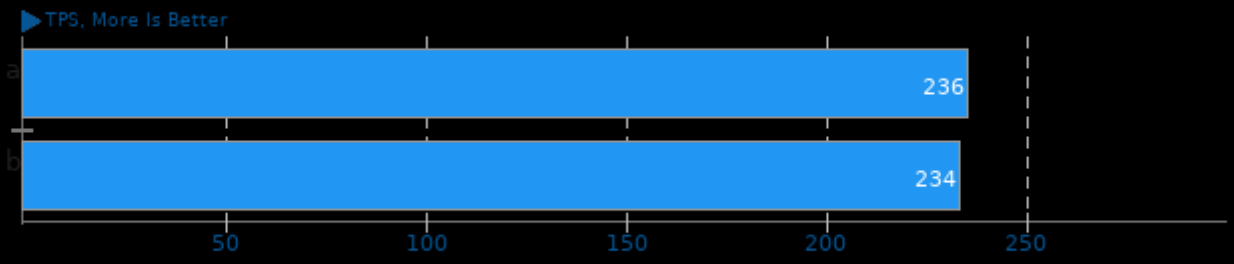
Scaling Factor: 1 - Clients: 800 - Mode: Read Write - Average Latency



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

PostgreSQL 15

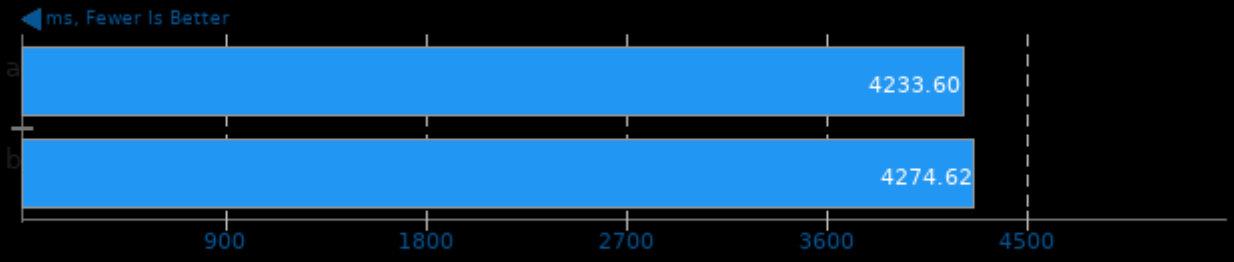
Scaling Factor: 1 - Clients: 1000 - Mode: Read Write



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

PostgreSQL 15

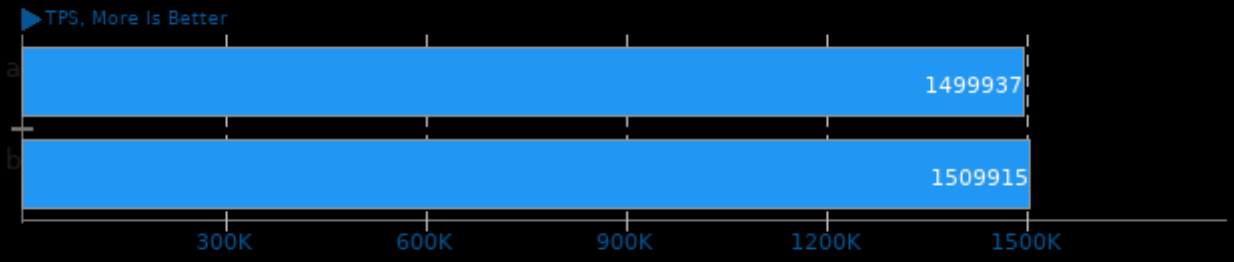
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1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL 15

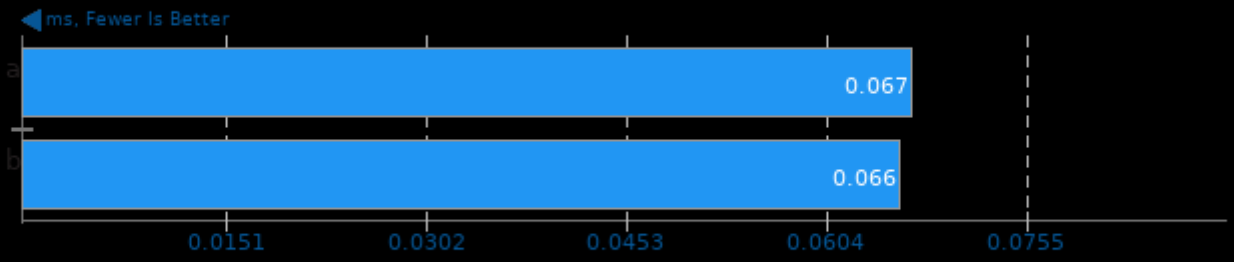
Scaling Factor: 100 - Clients: 100 - Mode: Read Only



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

PostgreSQL 15

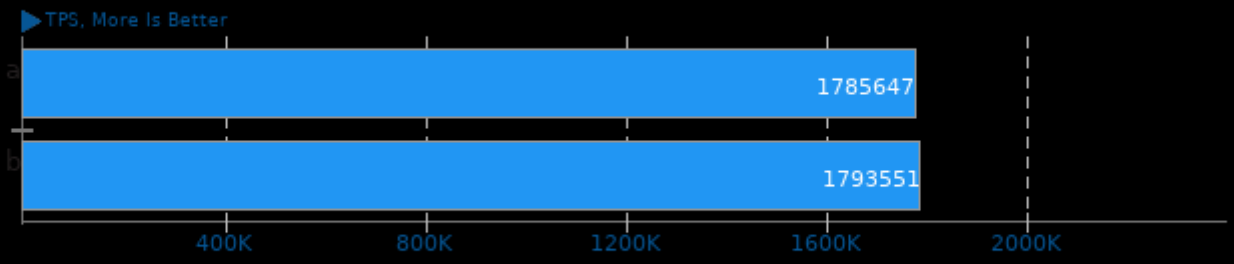
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1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL 15

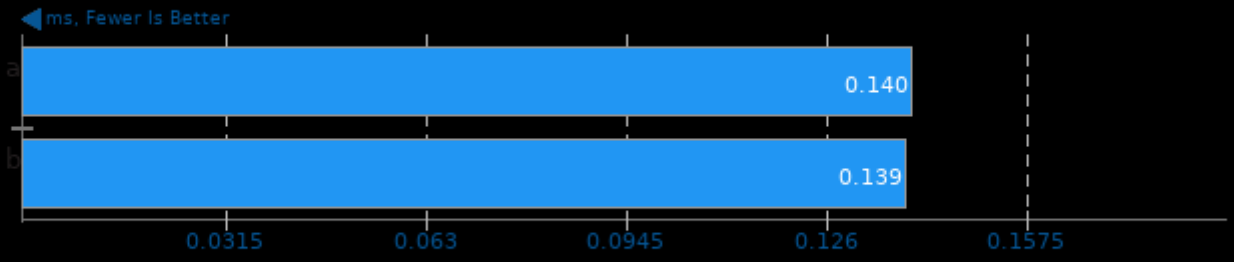
Scaling Factor: 100 - Clients: 250 - Mode: Read Only



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

PostgreSQL 15

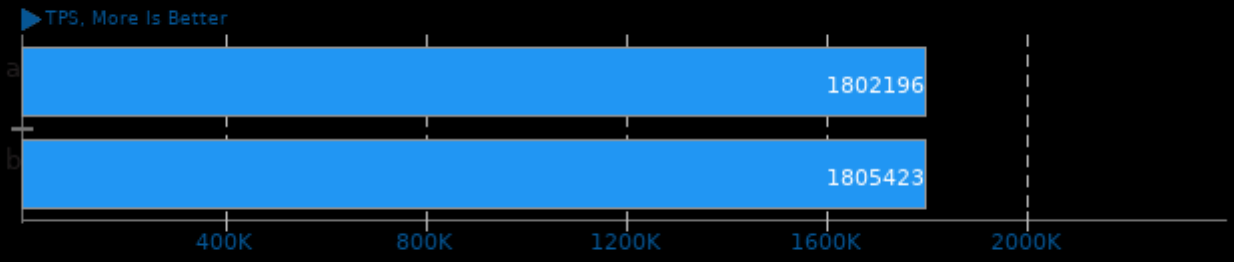
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency



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

PostgreSQL 15

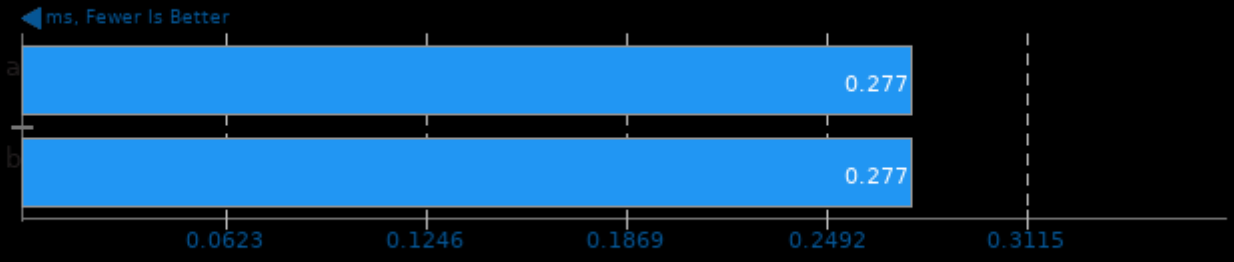
Scaling Factor: 100 - Clients: 500 - Mode: Read Only



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

PostgreSQL 15

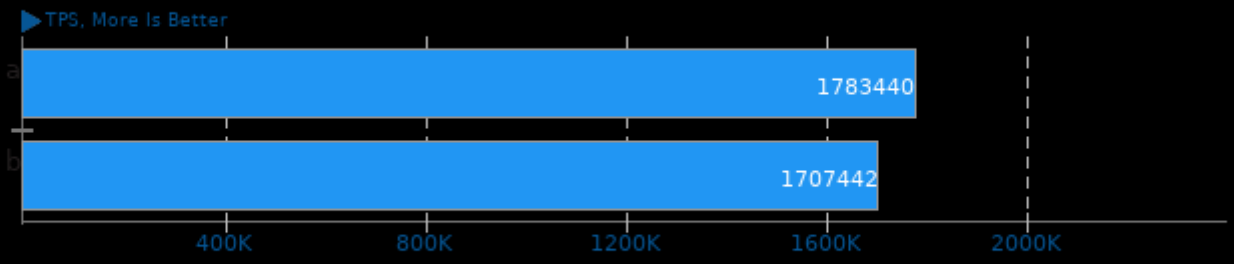
Scaling Factor: 100 - Clients: 500 - Mode: Read Only - Average Latency



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

PostgreSQL 15

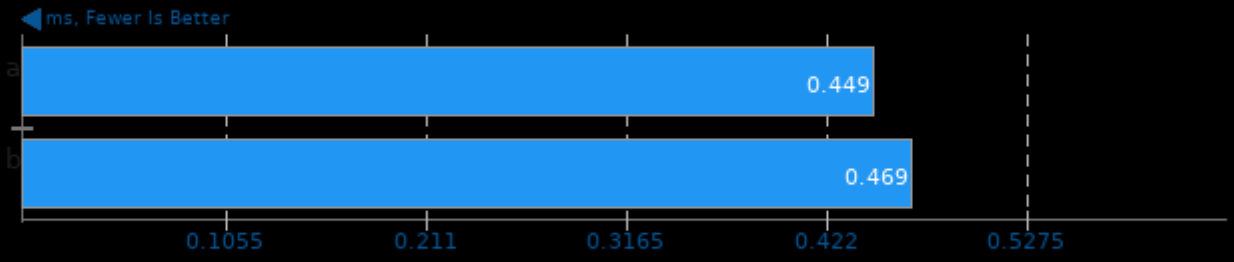
Scaling Factor: 100 - Clients: 800 - Mode: Read Only



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

PostgreSQL 15

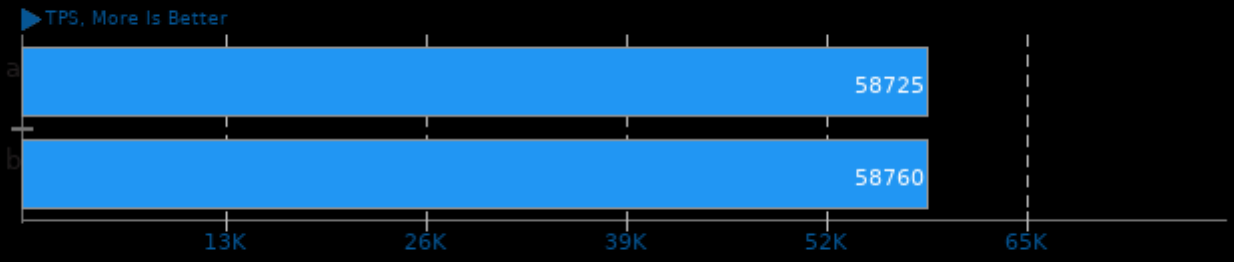
Scaling Factor: 100 - Clients: 800 - Mode: Read Only - Average Latency



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

PostgreSQL 15

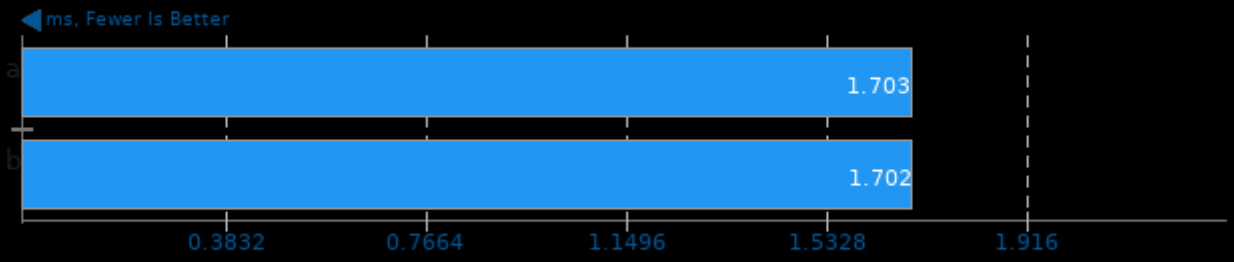
Scaling Factor: 100 - Clients: 100 - Mode: Read Write



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

PostgreSQL 15

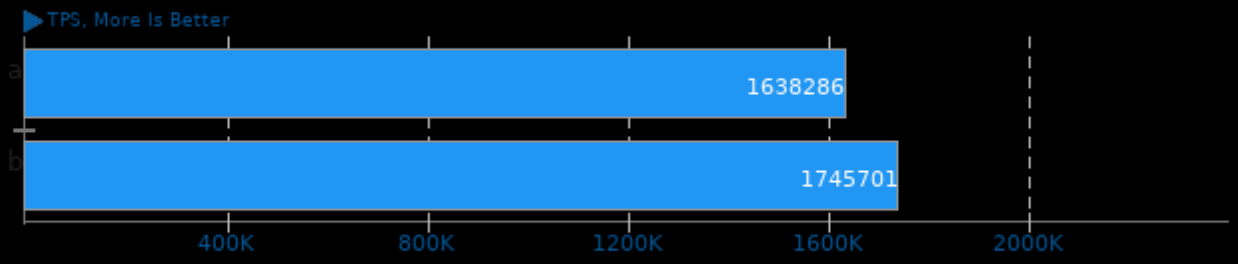
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1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL 15

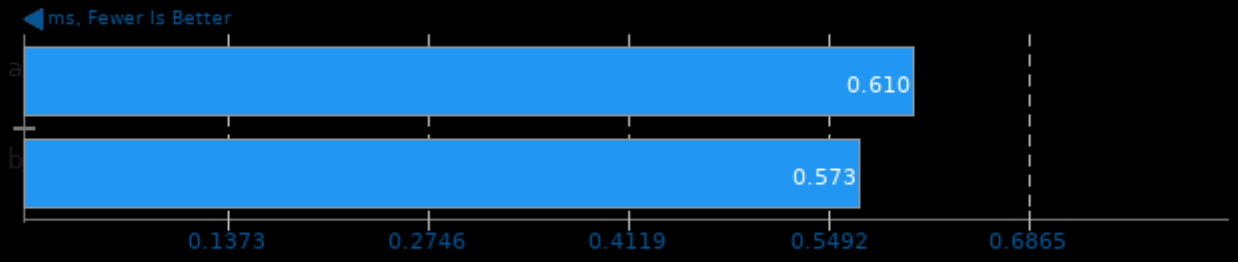
Scaling Factor: 100 - Clients: 1000 - Mode: Read Only



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

PostgreSQL 15

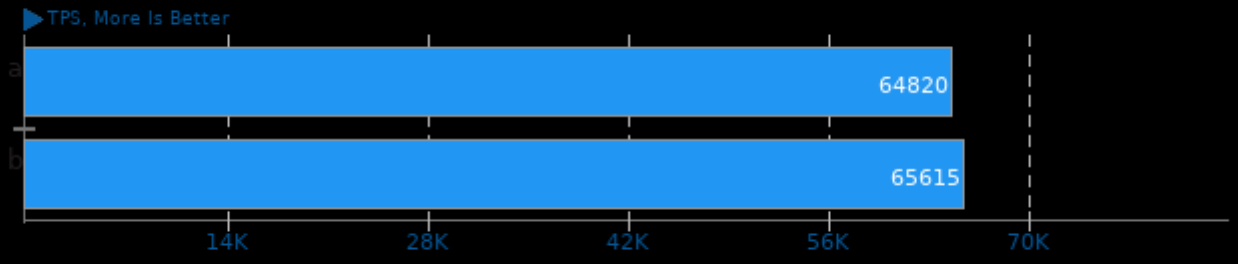
Scaling Factor: 100 - Clients: 1000 - Mode: Read Only - Average Latency



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

PostgreSQL 15

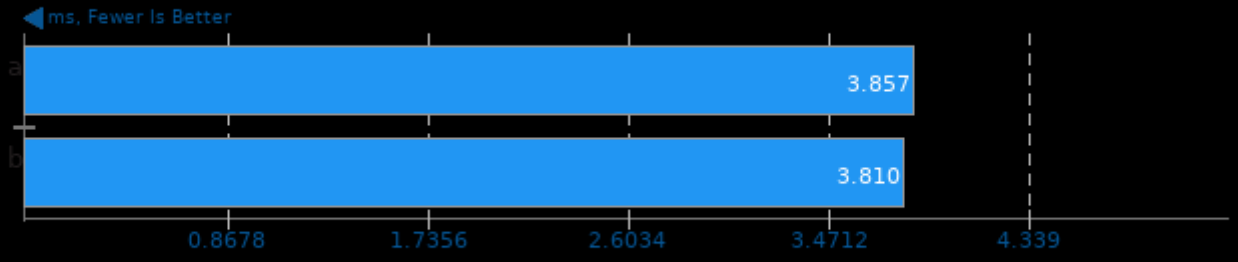
Scaling Factor: 100 - Clients: 250 - Mode: Read Write



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

PostgreSQL 15

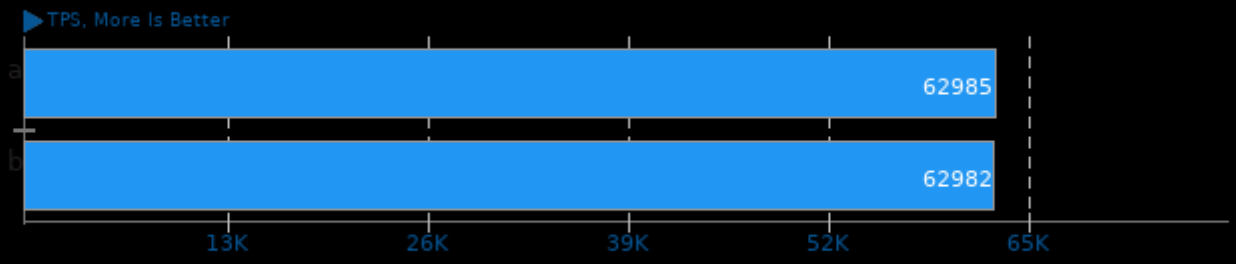
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency



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

PostgreSQL 15

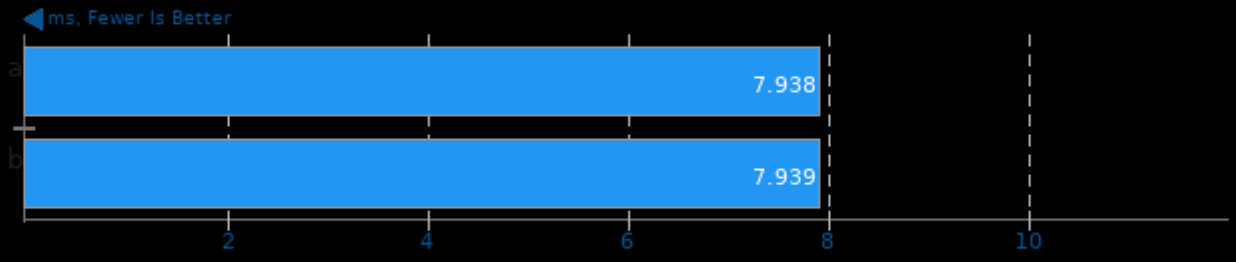
Scaling Factor: 100 - Clients: 500 - Mode: Read Write



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

PostgreSQL 15

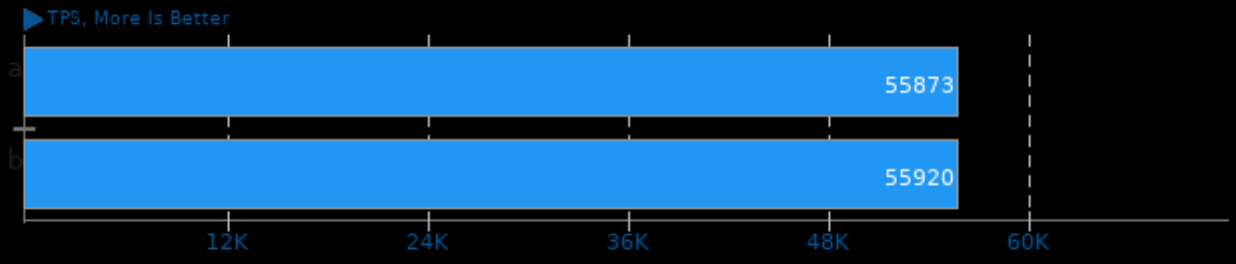
Scaling Factor: 100 - Clients: 500 - Mode: Read Write - Average Latency



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

PostgreSQL 15

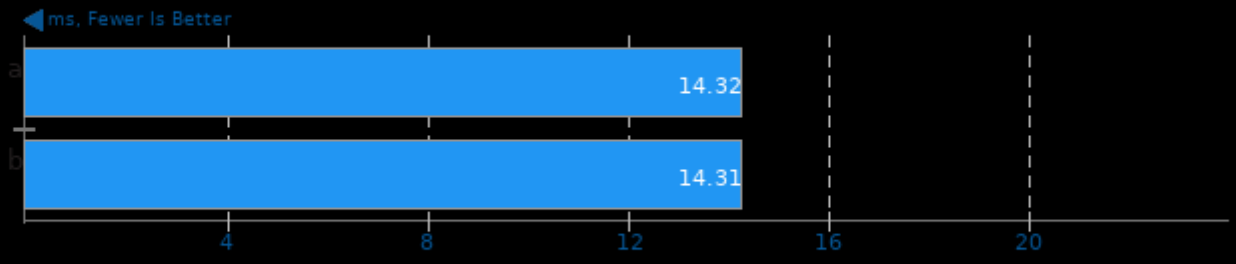
Scaling Factor: 100 - Clients: 800 - Mode: Read Write



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

PostgreSQL 15

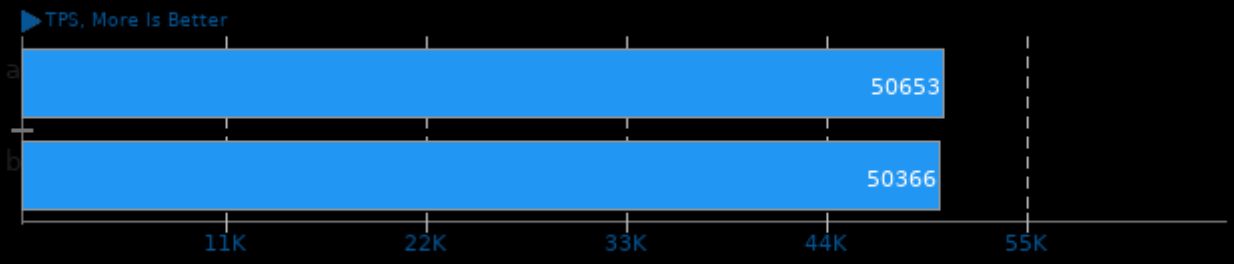
Scaling Factor: 100 - Clients: 800 - Mode: Read Write - Average Latency



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

PostgreSQL 15

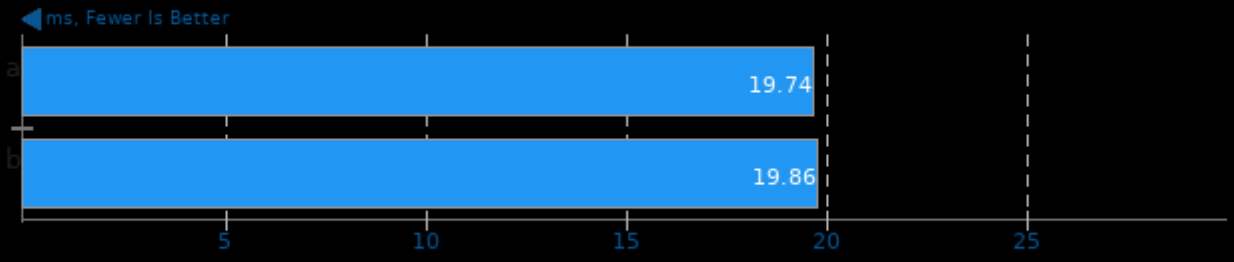
Scaling Factor: 100 - Clients: 1000 - Mode: Read Write



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

PostgreSQL 15

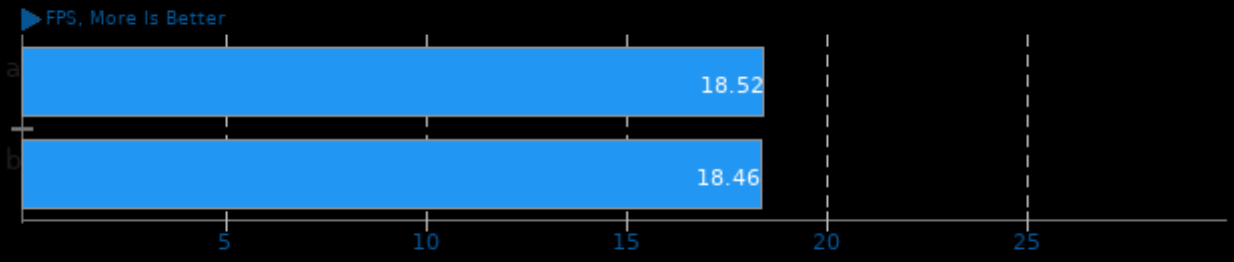
Scaling Factor: 100 - Clients: 1000 - Mode: Read Write - Average Latency



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

OpenVINO 2022.3

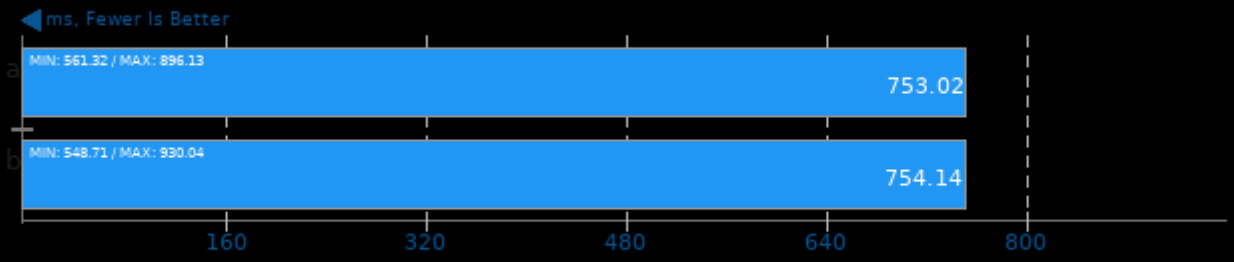
Model: Face Detection FP16 - Device: CPU



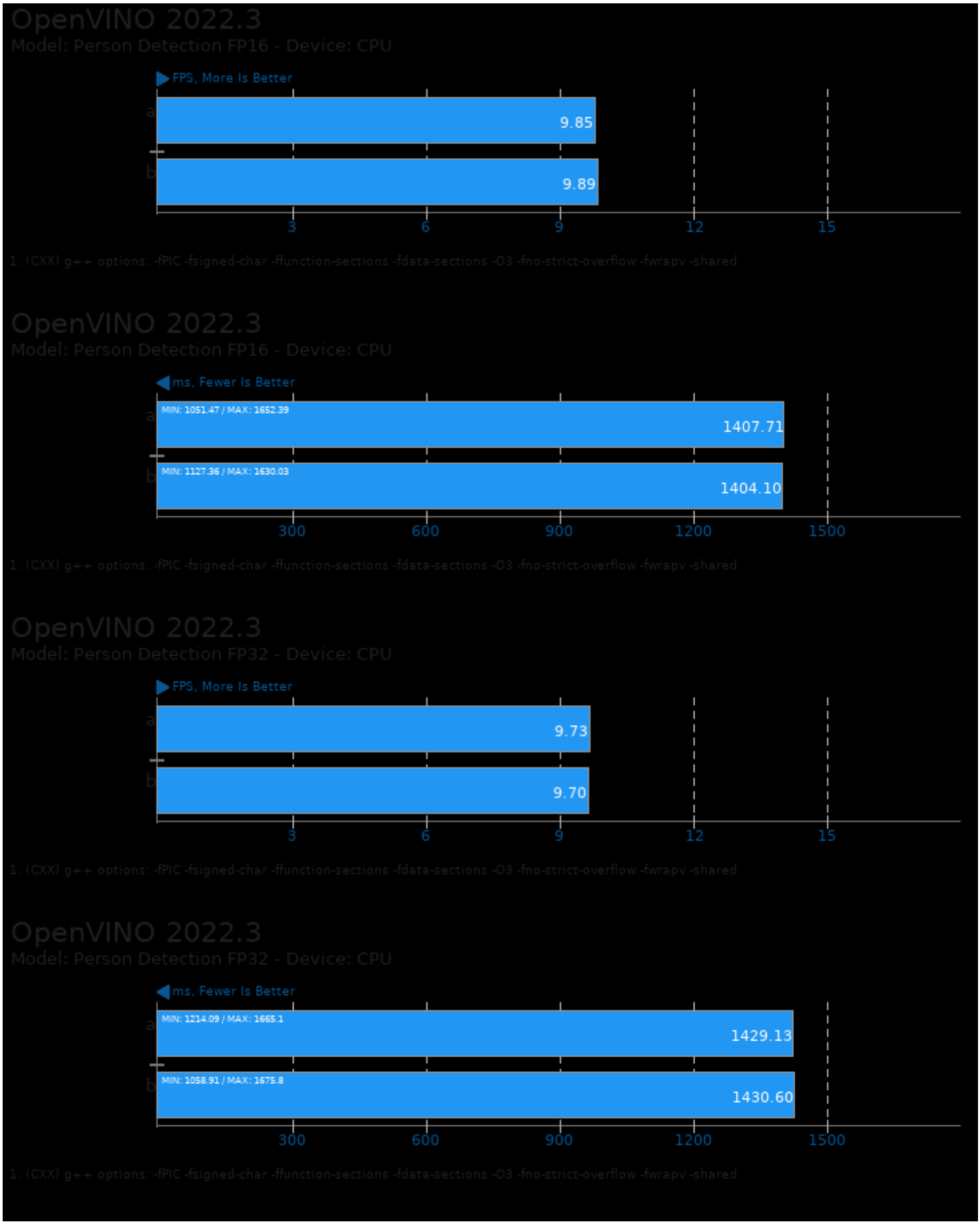
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

Model: Face Detection FP16 - Device: CPU

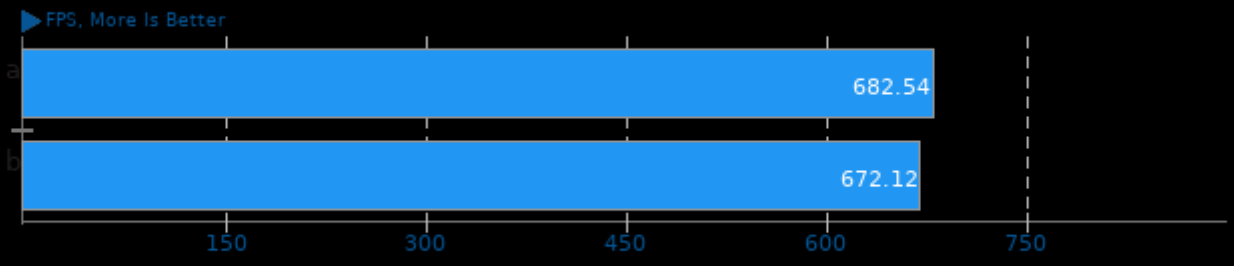


1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared


OpenVINO 2022.3
Model: Person Detection FP16 - Device: CPU
FPS, More Is Better
a
9.85
b
9.89
3
6
9
12
15
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared
OpenVINO 2022.3
Model: Person Detection FP16 - Device: CPU
ms, Fewer Is Better
a
MIN: 1051.47 / MAX: 1652.39
1407.71
b
MIN: 1127.36 / MAX: 1630.03
1404.10
300
600
900
1200
1500
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared
OpenVINO 2022.3
Model: Person Detection FP32 - Device: CPU
FPS, More Is Better
a
9.73
b
9.70
3
6
9
12
15
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared
OpenVINO 2022.3
Model: Person Detection FP32 - Device: CPU
ms, Fewer Is Better
a
MIN: 1214.09 / MAX: 1665.1
1429.13
b
MIN: 1058.91 / MAX: 1675.8
1430.60
300
600
900
1200
1500
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

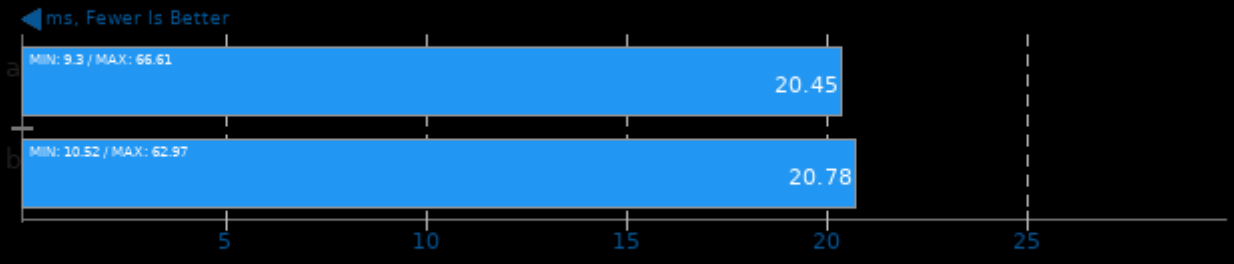
Model: Vehicle Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

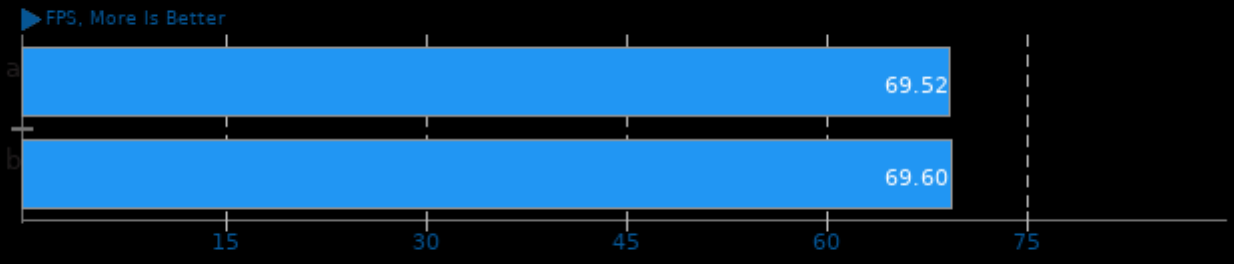
Model: Vehicle Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

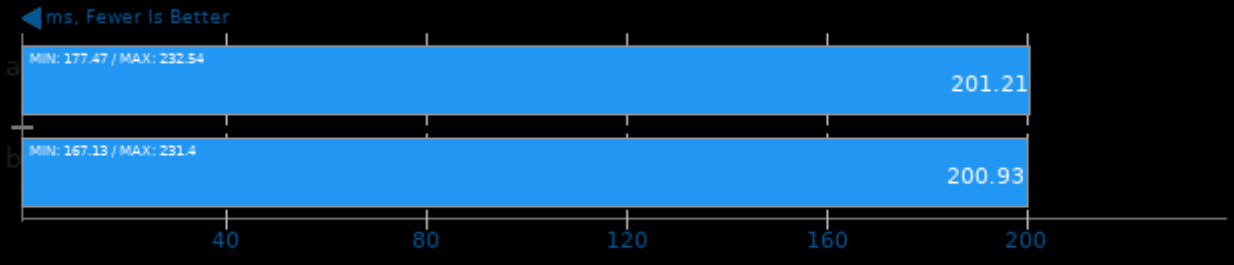
Model: Face Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

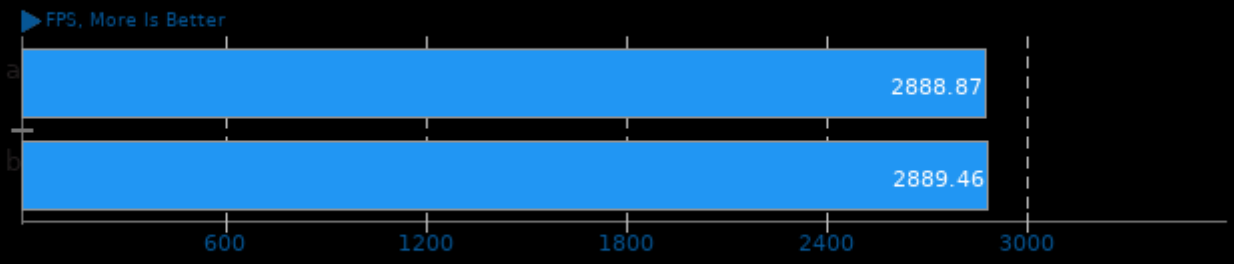
Model: Face Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

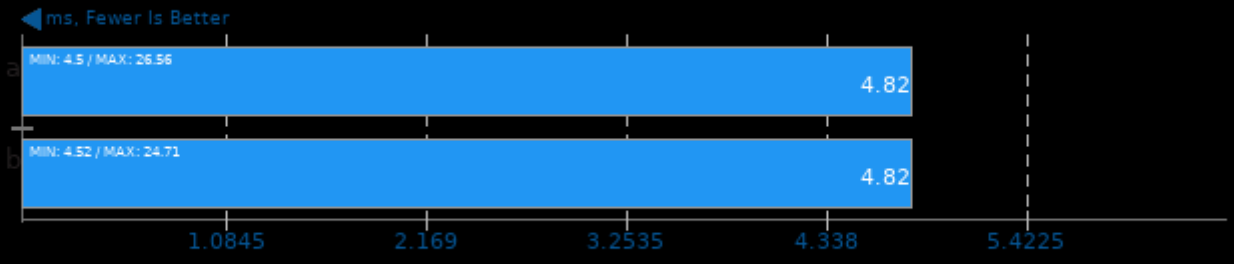
Model: Vehicle Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

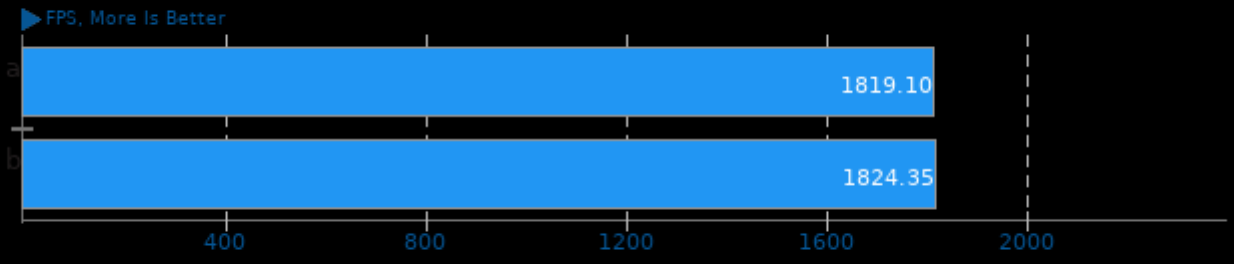
Model: Vehicle Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

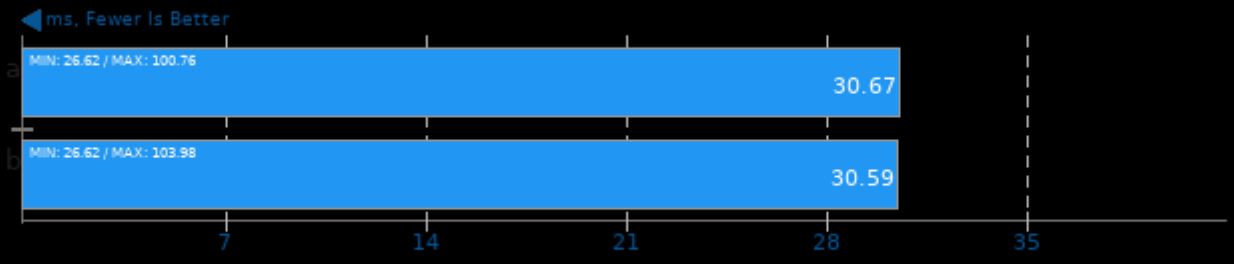
Model: Weld Porosity Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

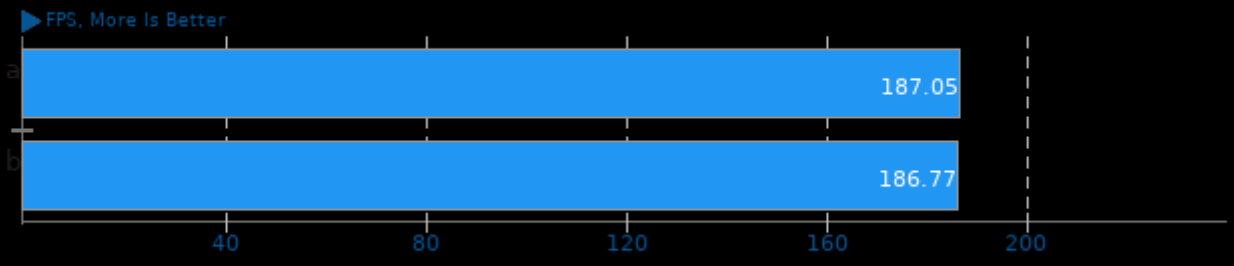
Model: Weld Porosity Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

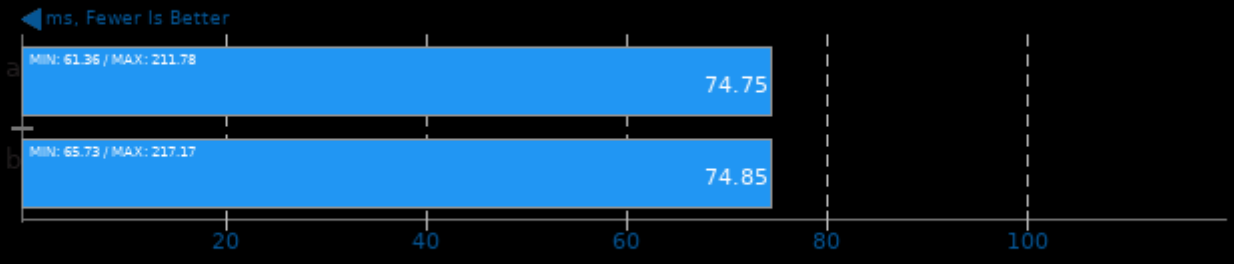
Model: Machine Translation EN To DE FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

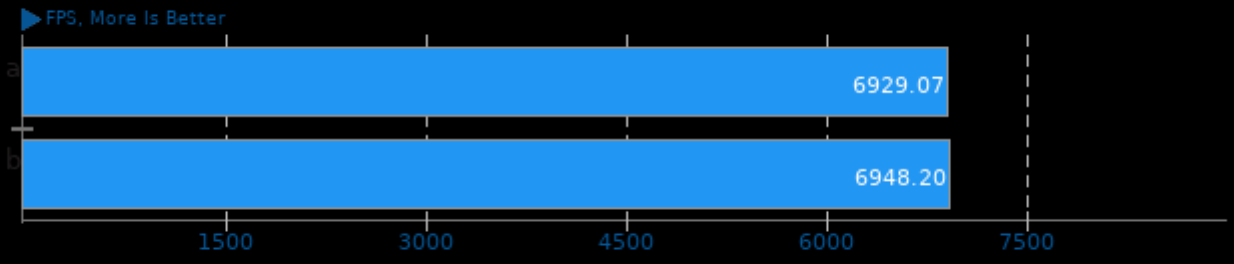
Model: Machine Translation EN To DE FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

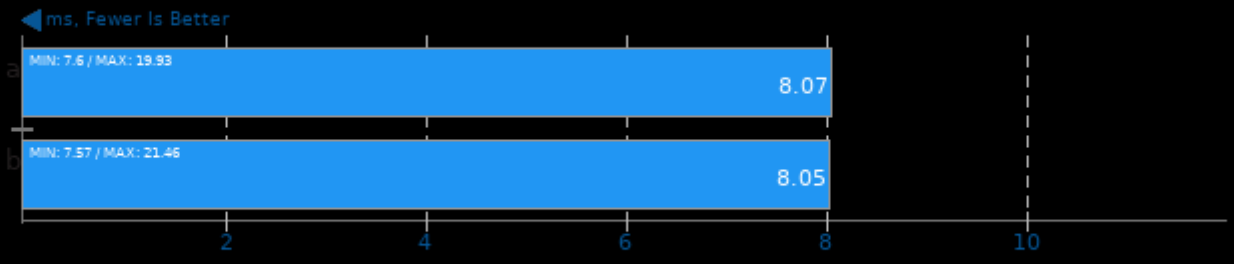
Model: Weld Porosity Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

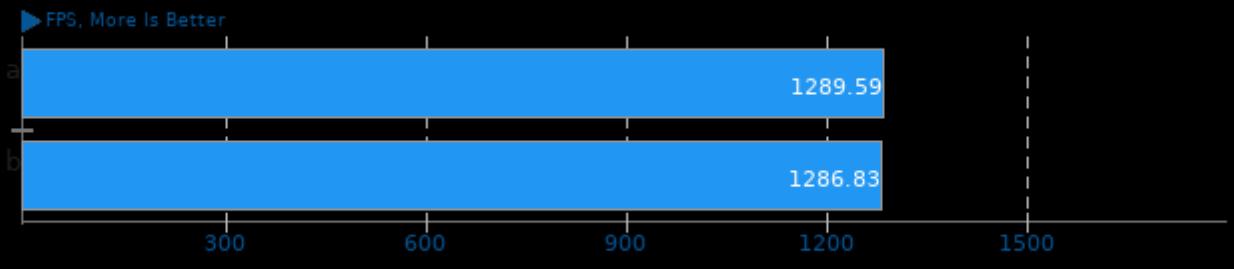
Model: Weld Porosity Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

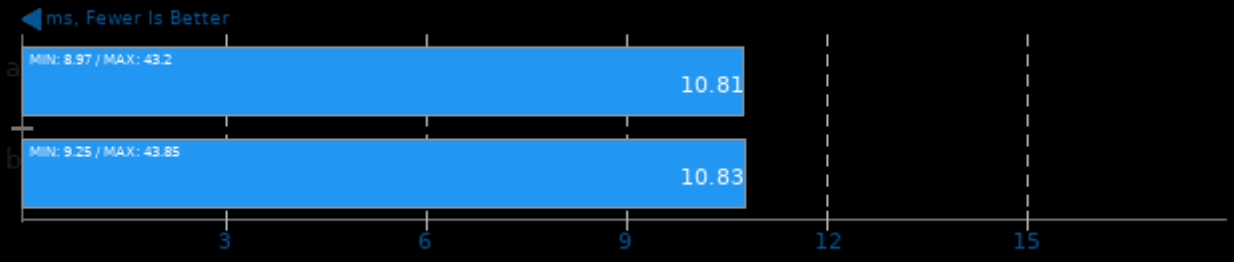
Model: Person Vehicle Bike Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

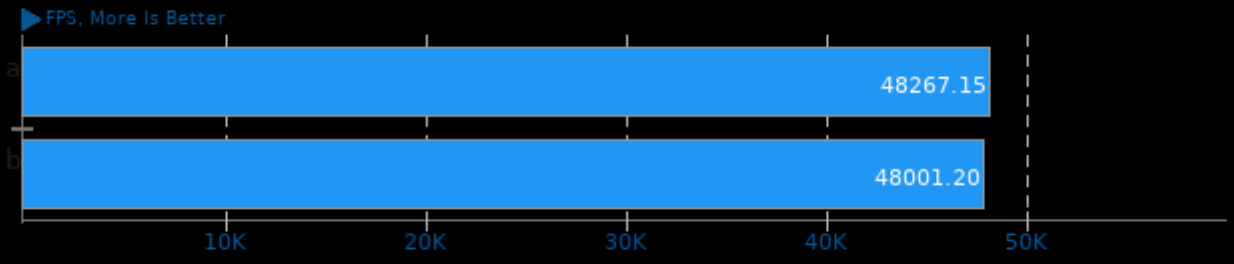
Model: Person Vehicle Bike Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

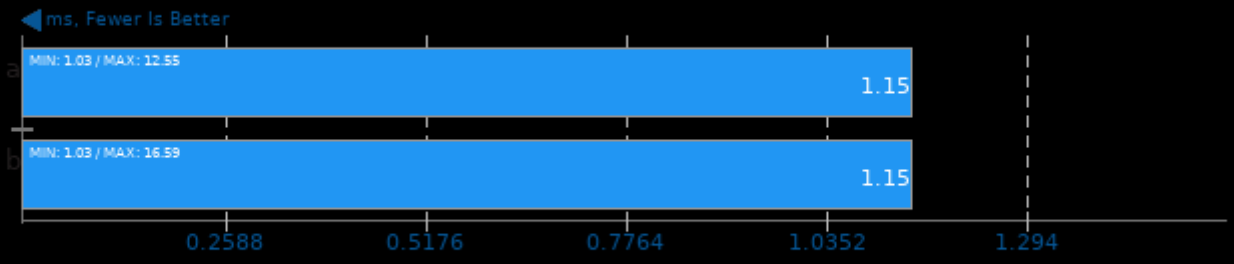
Model: Age Gender Recognition Retail 0013 FP16 - Device: CPU



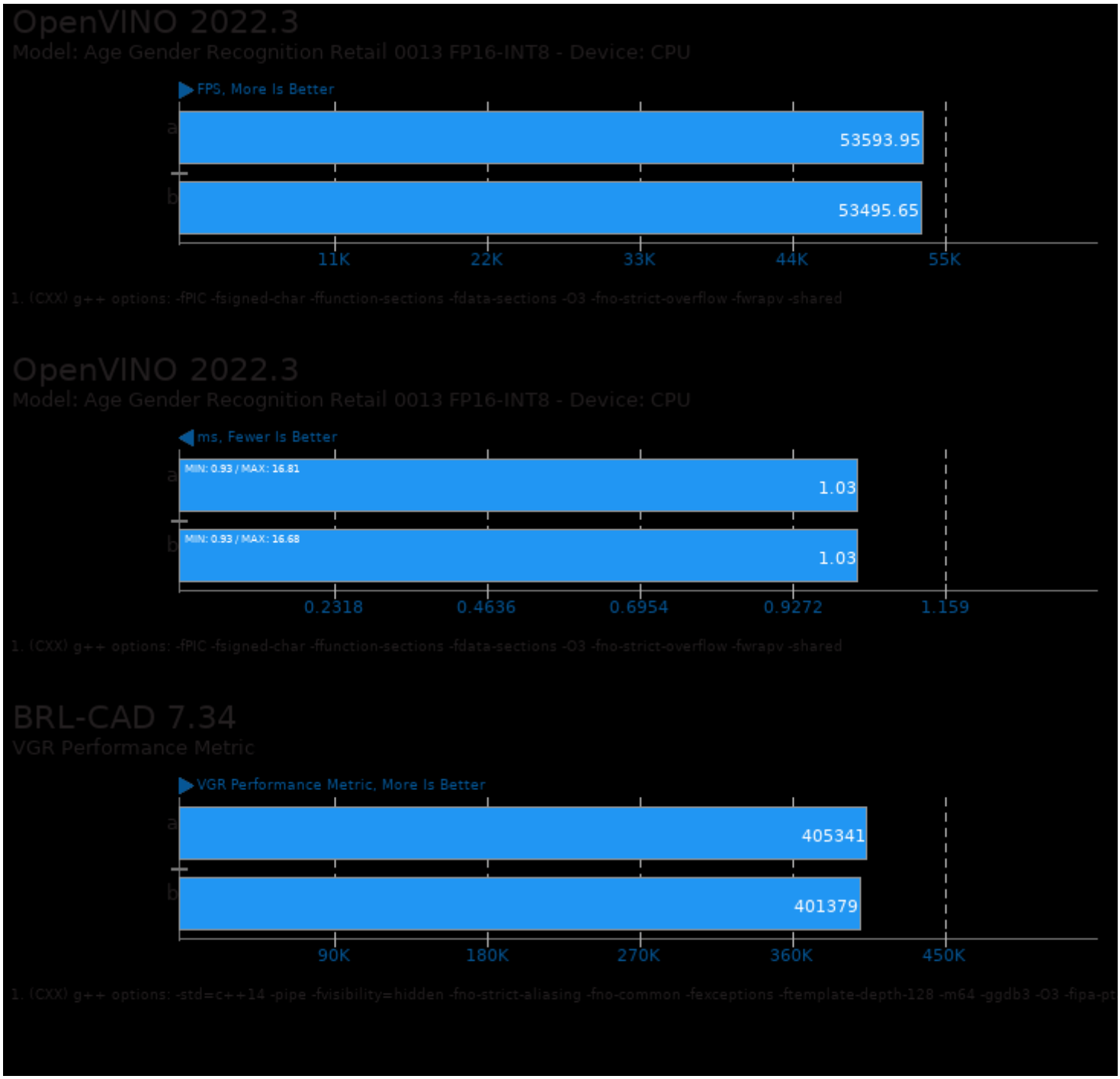
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared

OpenVINO 2022.3

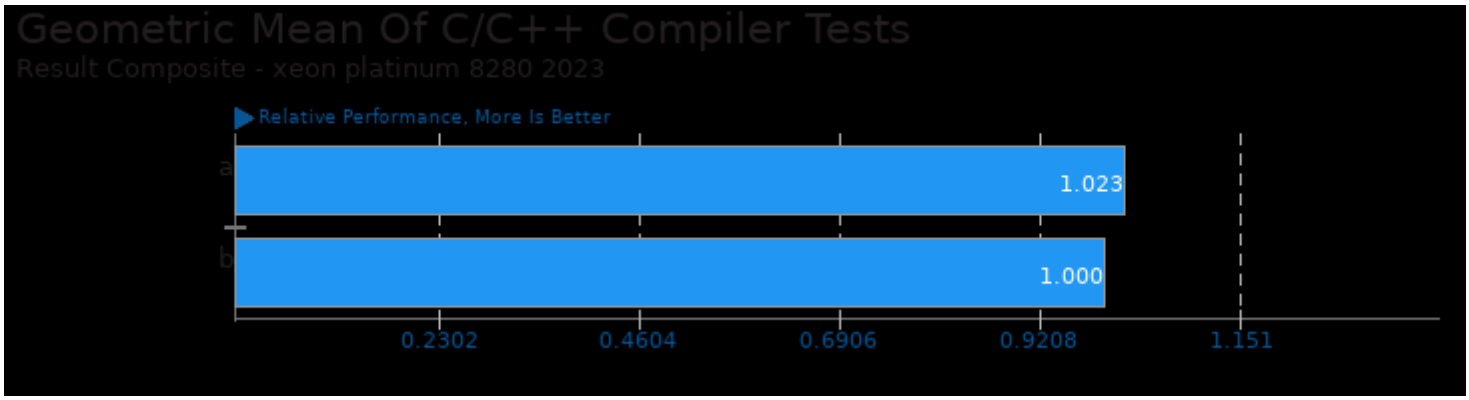
Model: Age Gender Recognition Retail 0013 FP16 - Device: CPU



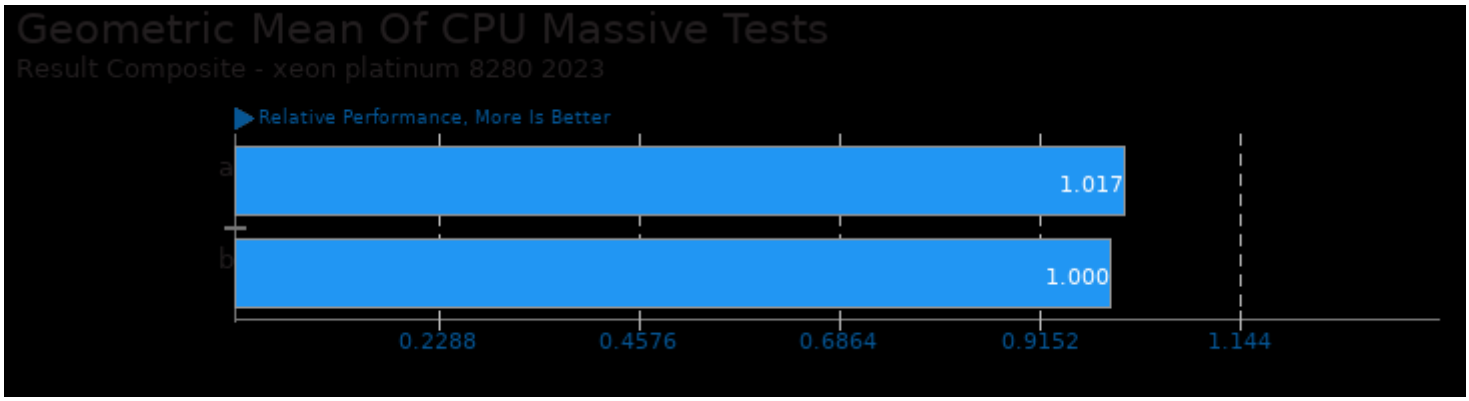
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared


OpenVINO 2022.3
Model: Age Gender Recognition Retail 0013 FP16-INT8 - Device: CPU
FPS, More Is Better
a
53593.95
b
53495.65
11K
22K
33K
44K
55K
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared
OpenVINO 2022.3
Model: Age Gender Recognition Retail 0013 FP16-INT8 - Device: CPU
ms, Fewer Is Better
a
MIN: 0.93 / MAX: 16.81
1.03
b
MIN: 0.93 / MAX: 16.68
1.03
0.2318
0.4636
0.6954
0.9272
1.159
1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -shared
BRL-CAD 7.34
VGR Performance Metric
VGR Performance Metric, More Is Better
a
405341
b
401379
90K
180K
270K
360K
450K
1. (CXX) g++ options: -std=c++14 -pipe -fvisibility=hidden -fno-strict-aliasing -fno-common -fexceptions -ftemplate-depth-128 -m64 -ggdb3 -O3 -fipa-pt

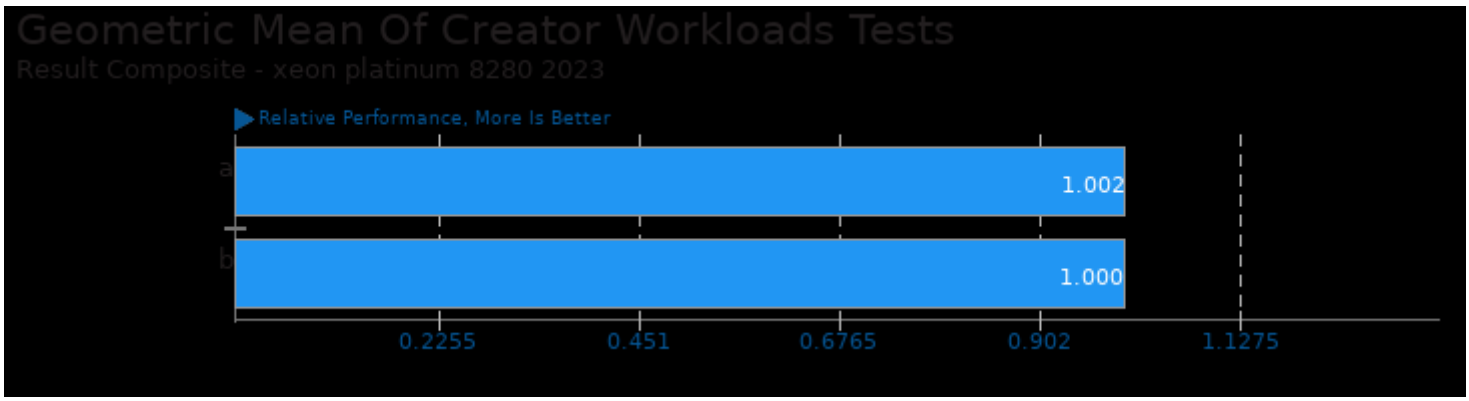
These geometric means are based upon test groupings / test suites for this result file.



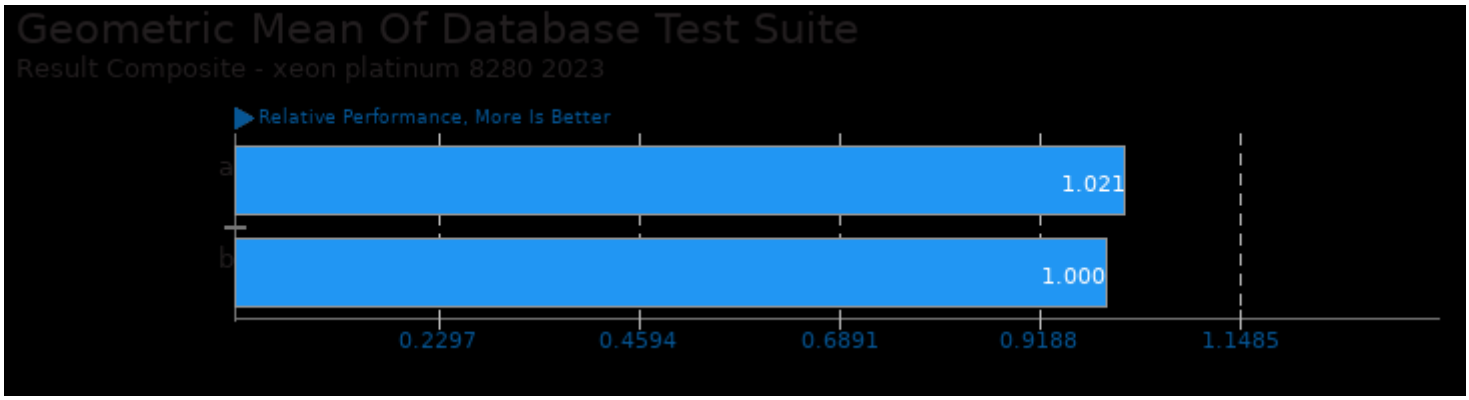
Geometric mean based upon tests: pts/pgbench and pts/kvazaar



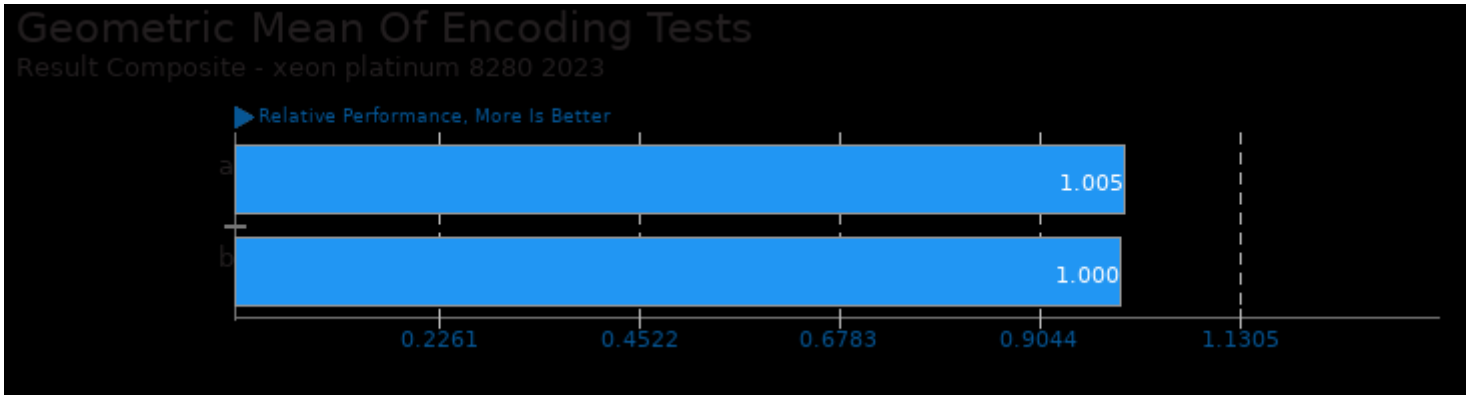
Geometric mean based upon tests: pts/brl-cad, pts/onednn and pts/pgbench



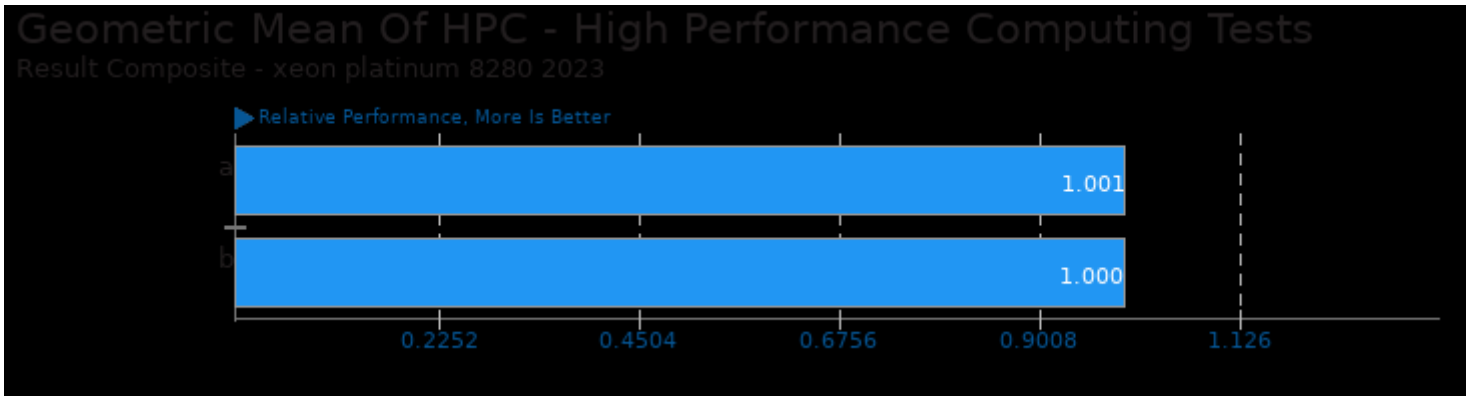
Geometric mean based upon tests: pts/kvazaar, pts/uvg266, pts/onednn, pts/openvkl, pts/openvino and pts/brl-cad



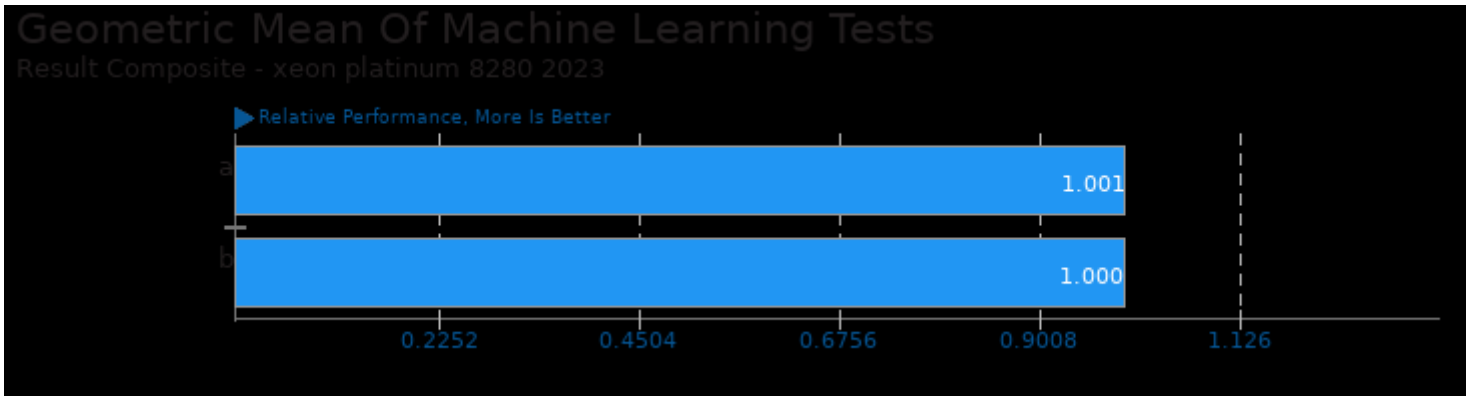
Geometric mean based upon tests: pts/pgbench and pts/cockroach



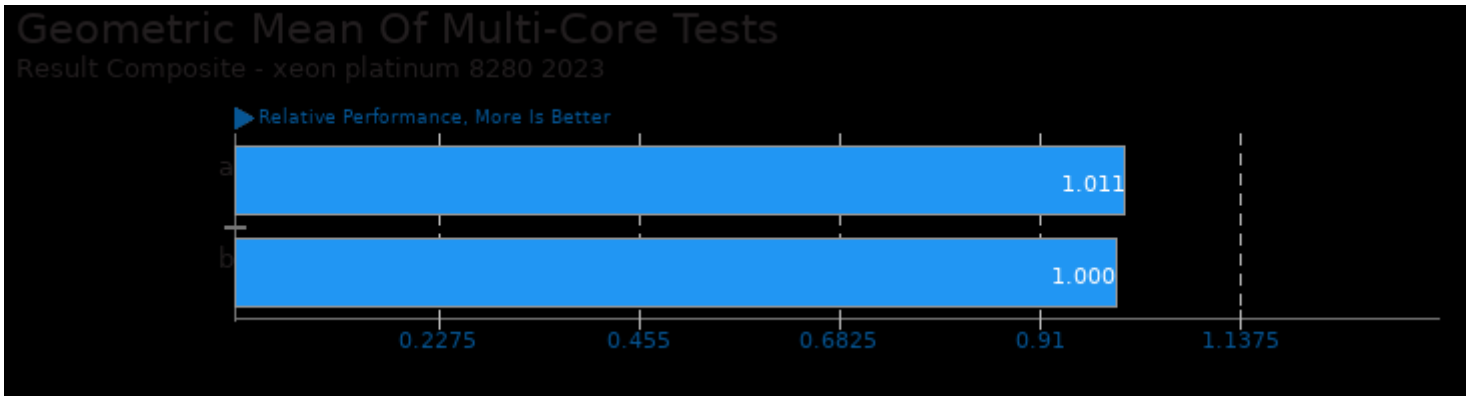
Geometric mean based upon tests: pts/kvazaar and pts/uvg266



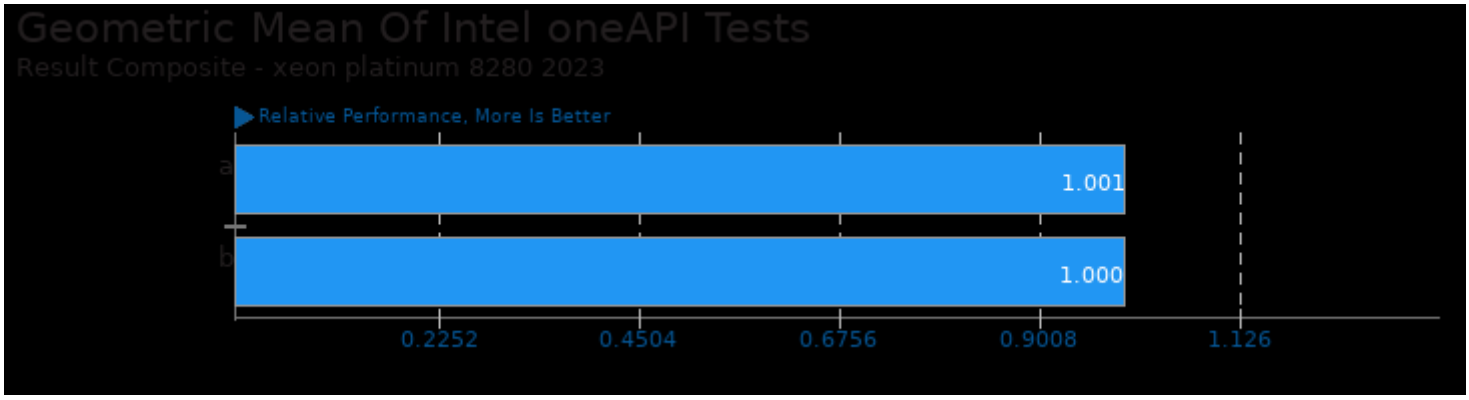
Geometric mean based upon tests: pts/onednn and pts/openvino



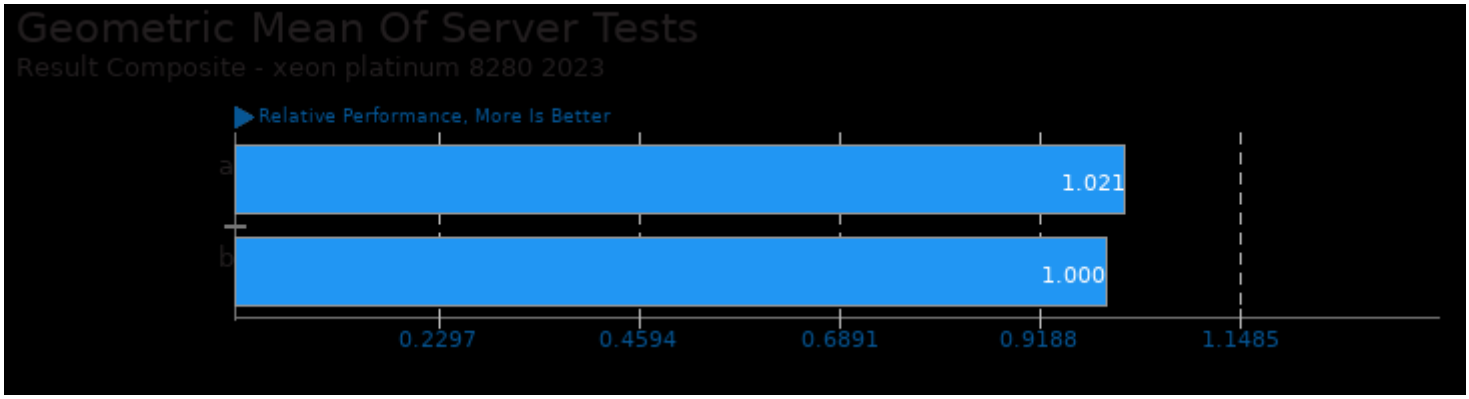
Geometric mean based upon tests: pts/onednn and pts/openvino



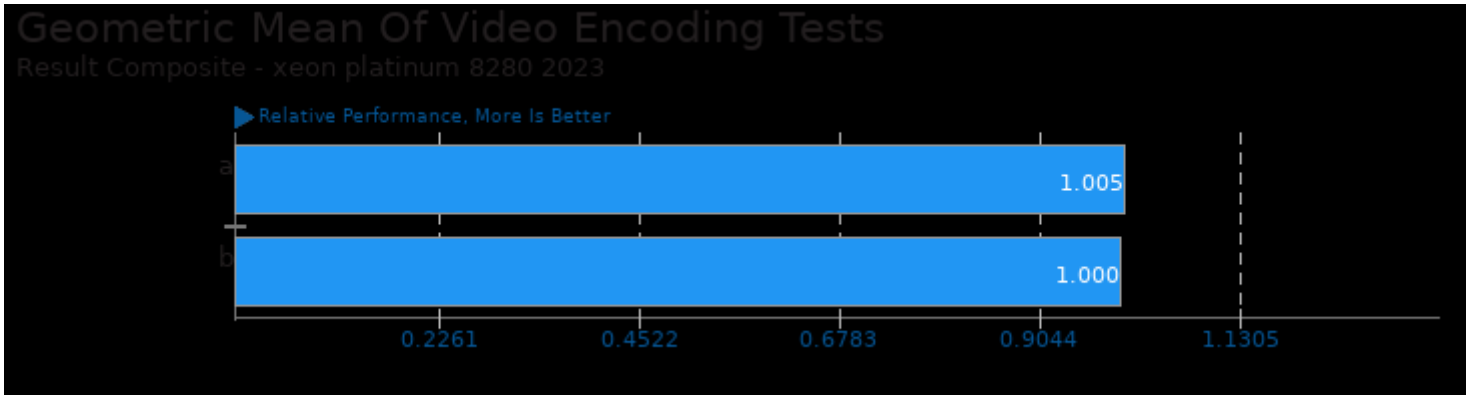
Geometric mean based upon tests: pts/kvazaar, pts/uvg266, pts/onednn, pts/openvkl, pts/openvino and pts/pgbench



Geometric mean based upon tests: pts/onednn, pts/openvkl and pts/openvino



Geometric mean based upon tests: pts/pgbench and pts/cockroach



Geometric mean based upon tests: pts/kvazaar and pts/uvg266

xeon platinum 8280 2023

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