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## 10900k eo july

Intel Core i9-10900K testing with a Gigabyte Z490 AORUS MASTER (F20d BIOS) and Gigabyte Intel UHD 630 CML GT2 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

### Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (2) was 1.005x the speed of the slowest (3). 1 was 0.999x the speed of 2 and 3 was 0.996x the speed of 1.

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

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 1 - Mode: Read Write) at 1.052x  
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency) at 1.048x  
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 50 - Mode: Read Write) at 1.048x  
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency) at 1.032x  
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency) at 1.029x  
NCNN (Target: Vulkan GPU - Model: alexnet) at 1.024x  
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency) at 1.019x  
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 50 - Mode: Read Only) at 1.018x  
NCNN (Target: Vulkan GPU - Model: mobilenet) at 1.017x

NCNN (Target: CPU - Model: efficientnet-b0) at 1.016x.

## Test Systems:

1

2

3

Processor: Intel Core i9-10900K @ 5.30GHz (10 Cores / 20 Threads), Motherboard: Gigabyte Z490 AORUS MASTER (F20d BIOS), Chipset: Intel Comet Lake PCH, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: Gigabyte Intel UHD 630 CML GT2 3GB (1200MHz), Audio: Realtek ALC1220, Monitor: G237HL, Network: Intel Device 15f3 + Intel Wi-Fi 6 AX201

OS: Ubuntu 20.04, Kernel: 5.9.0-050900daily20201012-generic (x86\_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.0.8, OpenCL: OpenCL 2.1, Vulkan: 1.2.131, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEA/gcc-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86\_64-linux-gnu --program-prefix=x86\_64-linux-gnu- --target=x86\_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: intel\_pstate powersave - CPU Microcode: 0xec

Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.20.04)

Python Notes: Python 3.8.10

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/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx\_async\_abort: Not affected

	1	2	3
<b>Quantum ESPRESSO - AUSURF112 (sec)</b>	1352	<b>1351</b>	<b>1353</b>
Normalized	99.99%	100%	99.89%
Standard Deviation	1.4%	2.6%	2.9%
<b>YafaRay - T.T.F.S.S (sec)</b>	<b>112.446</b>	<b>111.655</b>	111.700
Normalized	99.3%	100%	99.96%
Standard Deviation	0.9%	1%	0.8%
<b>PostgreSQL pgbench - 1 - 1 - Read Only</b>	31716	<b>31738</b>	<b>31300</b>
Normalized	99.93%	100%	98.62%
Standard Deviation	0.8%	0.4%	1%
<b>PostgreSQL pgbench - 1 - 1 - Read Only -</b>	<b>0.032</b>	<b>0.031</b>	<b>0.032</b>
Average Latency (ms)			
Normalized	96.88%	100%	96.88%
Standard Deviation	1.8%	1.8%	0%

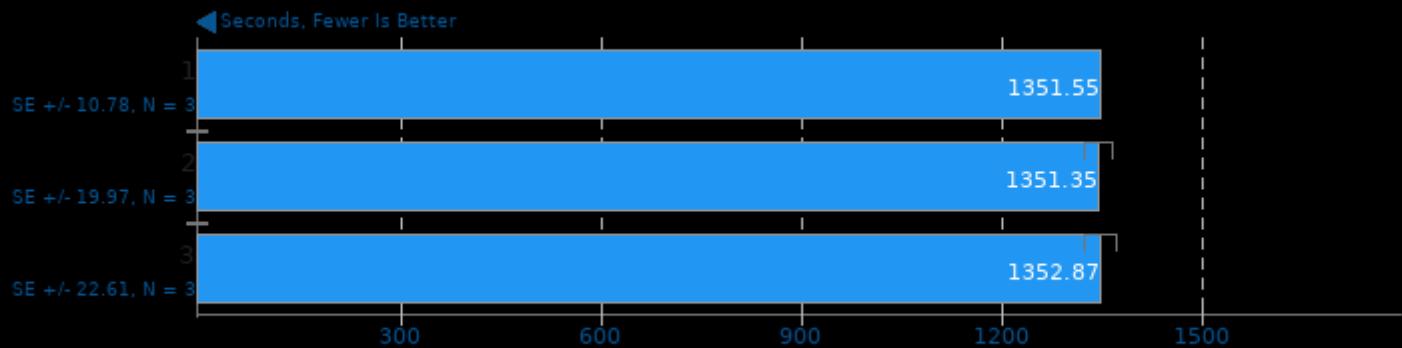
<b>PostgreSQL pgbench - 1 - 1 - Read Write</b>	<b>716</b>	<b>711</b>	<b>711</b>
Normalized	100%	99.3%	99.3%
Standard Deviation	0.2%	0.8%	0.7%
<b>PostgreSQL pgbench - 1 - 1 - Read Write -</b>	<b>1.398</b>	<b>1.406</b>	<b>1.407</b>
<b>Average Latency (ms)</b>			
Normalized	100%	99.43%	99.36%
Standard Deviation	0.3%	0.8%	0.7%
<b>PostgreSQL pgbench - 1 - 50 - Read Only</b>	<b>382035</b>	<b>380967</b>	<b>381575</b>
<b>(TPS)</b>			
Normalized	100%	99.72%	99.88%
Standard Deviation	0.2%	0.3%	0.2%
<b>PostgreSQL pgbench - 1 - 50 - Read Only -</b>	<b>0.131</b>	<b>0.131</b>	<b>0.131</b>
<b>Average Latency (ms)</b>			
Standard Deviation	0%	0.4%	0%
<b>PostgreSQL pgbench - 1 - 50 - Read Write</b>	<b>723</b>	<b>725</b>	<b>721</b>
<b>(TPS)</b>			
Normalized	99.72%	100%	99.45%
Standard Deviation	0.3%	0.5%	0.5%
<b>PostgreSQL pgbench - 1 - 50 - Read Write -</b>	<b>69.171</b>	<b>68.987</b>	<b>69.365</b>
<b>Average Latency (ms)</b>			
Normalized	99.73%	100%	99.46%
Standard Deviation	0.3%	0.5%	0.5%
<b>PostgreSQL pgbench - 100 - 1 - Read Only</b>	<b>27896</b>	<b>28130</b>	<b>28196</b>
<b>(TPS)</b>			
Normalized	98.94%	99.77%	100%
Standard Deviation	0.8%	0.2%	0.4%
<b>PostgreSQL pgbench - 100 - 1 - Read Only -</b>	<b>0.036</b>	<b>0.036</b>	<b>0.035</b>
<b>Average Latency (ms)</b>			
Normalized	97.22%	97.22%	100%
Standard Deviation	0%	1.6%	1.6%
<b>PostgreSQL pgbench - 100 - 1 - Read Write</b>	<b>243</b>	<b>232</b>	<b>231</b>
<b>(TPS)</b>			
Normalized	100%	95.47%	95.06%
Standard Deviation	5.7%	2.8%	5.5%
<b>PostgreSQL pgbench - 100 - 1 - Read Write -</b>	<b>4.123</b>	<b>4.315</b>	<b>4.338</b>
<b>Average Latency (ms)</b>			
Normalized	100%	95.55%	95.04%
Standard Deviation	6.4%	2.8%	5.2%
<b>PostgreSQL pgbench - 100 - 50 - Read Only</b>	<b>316702</b>	<b>322288</b>	<b>318391</b>
<b>(TPS)</b>			
Normalized	98.27%	100%	98.79%
Standard Deviation	2.7%	3%	2.9%
<b>PostgreSQL pgbench - 100 - 50 - Read Only -</b>	<b>0.158</b>	<b>0.155</b>	<b>0.157</b>
<b>Average Latency (ms)</b>			
Normalized	98.1%	100%	98.73%
Standard Deviation	2.6%	3%	3%
<b>PostgreSQL pgbench - 100 - 50 - Read Write</b>	<b>4491</b>	<b>4410</b>	<b>4286</b>
<b>(TPS)</b>			
Normalized	100%	98.2%	95.44%
Standard Deviation	1.9%	1.4%	2.6%
<b>PostgreSQL pgbench - 100 - 50 - Read Write -</b>	<b>11.136</b>	<b>11.34</b>	<b>11.673</b>
<b>- Average Latency (ms)</b>			
Normalized	100%	98.2%	95.4%

	Standard Deviation	2%	1.5%	2.7%
<b>NCNN - CPU - mobilenet (ms)</b>	15.96	<b>15.94</b>	<b>16.00</b>	
	Normalized	99.87%	100%	99.63%
	Standard Deviation	0.2%	0.3%	0.4%
<b>NCNN - CPU-v2-v2 - mobilenet-v2 (ms)</b>	<b>4.49</b>	<b>4.46</b>	<b>4.47</b>	
	Normalized	99.33%	100%	99.78%
	Standard Deviation	0.5%	1.7%	1.4%
<b>NCNN - CPU-v3-v3 - mobilenet-v3 (ms)</b>	<b>3.57</b>	<b>3.54</b>	<b>3.56</b>	
	Normalized	99.16%	100%	99.44%
	Standard Deviation	0.9%	1.5%	1.4%
<b>NCNN - CPU - shufflenet-v2 (ms)</b>	3.34	<b>3.35</b>	<b>3.32</b>	
	Normalized	99.4%	99.1%	100%
	Standard Deviation	2.1%	5.6%	4.1%
<b>NCNN - CPU - mnasnet (ms)</b>	3.39	<b>3.49</b>	<b>3.37</b>	
	Normalized	99.41%	96.56%	100%
	Standard Deviation	0.8%	7.4%	2%
<b>NCNN - CPU - efficientnet-b0 (ms)</b>	5.53	<b>5.61</b>	<b>5.52</b>	
	Normalized	99.82%	98.4%	100%
	Standard Deviation	0.4%	4.7%	1%
<b>NCNN - CPU - blazeface (ms)</b>	<b>1.44</b>	<b>1.45</b>	<b>1.45</b>	
	Normalized	100%	99.31%	99.31%
	Standard Deviation	1.4%	0.8%	0.4%
<b>NCNN - CPU - googlenet (ms)</b>	12.93	<b>13.09</b>	<b>12.88</b>	
	Normalized	99.61%	98.4%	100%
	Standard Deviation	0.5%	2.5%	0.2%
<b>NCNN - CPU - vgg16 (ms)</b>	63.04	<b>62.96</b>	<b>63.19</b>	
	Normalized	99.87%	100%	99.64%
	Standard Deviation	0%	0%	0.5%
<b>NCNN - CPU - resnet18 (ms)</b>	<b>13.90</b>	<b>13.83</b>	13.88	
	Normalized	99.5%	100%	99.64%
	Standard Deviation	0.1%	0.2%	0.2%
<b>NCNN - CPU - alexnet (ms)</b>	<b>12.35</b>	<b>12.35</b>	<b>12.36</b>	
	Normalized	100%	100%	99.92%
	Standard Deviation	0.6%	0.1%	0.2%
<b>NCNN - CPU - resnet50 (ms)</b>	22.83	<b>22.80</b>	<b>22.98</b>	
	Normalized	99.87%	100%	99.22%
	Standard Deviation	0.2%	0.4%	1.8%
<b>NCNN - CPU - yolov4-tiny (ms)</b>	<b>23.03</b>	23.05	<b>23.24</b>	
	Normalized	100%	99.91%	99.1%
	Standard Deviation	0.3%	0.2%	1.5%
<b>NCNN - CPU - squeezenet_ssd (ms)</b>	17.90	<b>17.81</b>	<b>17.95</b>	
	Normalized	99.5%	100%	99.22%
	Standard Deviation	0.5%	0.1%	0.8%
<b>NCNN - CPU - regnety_400m (ms)</b>	<b>8.60</b>	<b>8.49</b>	8.54	
	Normalized	98.72%	100%	99.41%
	Standard Deviation	0.3%	0.4%	0.5%
<b>NCNN - Vulkan GPU - mobilenet (ms)</b>	35.14	<b>35.30</b>	<b>34.72</b>	
	Normalized	98.8%	98.36%	100%
	Standard Deviation	3.6%	2.4%	1%
<b>NCNN - Vulkan GPU-v2-v2 - mobilenet-v2</b>	<b>16.10</b>	15.68	<b>15.45</b>	
	Normalized	95.96%	98.53%	100%
	Standard Deviation	3.2%	0.6%	9.9%
<b>NCNN - Vulkan GPU-v3-v3 - mobilenet-v3</b>	<b>17.11</b>	17.17	<b>17.31</b>	
	Normalized	100%	99.65%	98.84%
	Standard Deviation	2%	0.3%	1.5%

<b>NCNN - Vulkan GPU - shufflenet-v2 (ms)</b>	16.71	<b>16.55</b>	<b>16.78</b>
Normalized	99.04%	100%	98.63%
Standard Deviation	1.3%	1.9%	0.9%
<b>NCNN - Vulkan GPU - mnasnet (ms)</b>	16.59	<b>16.67</b>	<b>16.43</b>
Normalized	99.04%	98.56%	100%
Standard Deviation	1.1%	0.2%	1.4%
<b>NCNN - Vulkan GPU - efficientnet-b0 (ms)</b>	24.67	<b>24.64</b>	<b>24.75</b>
Normalized	99.88%	100%	99.56%
Standard Deviation	0.3%	0.6%	0.4%
<b>NCNN - Vulkan GPU - blazeface (ms)</b>	2.86	<b>2.58</b>	<b>3.19</b>
Normalized	90.21%	100%	80.88%
Standard Deviation	10.5%	4.8%	25%
<b>NCNN - Vulkan GPU - googlenet (ms)</b>	<b>33.41</b>	<b>33.40</b>	<b>33.40</b>
Normalized	99.97%	100%	100%
Standard Deviation	0.1%	0.1%	0.1%
<b>NCNN - Vulkan GPU - vgg16 (ms)</b>	<b>187.14</b>	<b>187.71</b>	187.45
Normalized	100%	99.7%	99.83%
Standard Deviation	0.6%	0.5%	1.1%
<b>NCNN - Vulkan GPU - resnet18 (ms)</b>	<b>29.63</b>	29.64	<b>29.68</b>
Normalized	100%	99.97%	99.83%
Standard Deviation	0.2%	0.2%	0.1%
<b>NCNN - Vulkan GPU - alexnet (ms)</b>	<b>47.60</b>	48.68	<b>48.74</b>
Normalized	100%	97.78%	97.66%
Standard Deviation	1%	0.6%	0%
<b>NCNN - Vulkan GPU - resnet50 (ms)</b>	<b>70.04</b>	<b>70.01</b>	70.03
Normalized	99.96%	100%	99.97%
Standard Deviation	0.2%	0.1%	0.1%
<b>NCNN - Vulkan GPU - yolov4-tiny (ms)</b>	<b>74.23</b>	<b>74.50</b>	74.31
Normalized	100%	99.64%	99.89%
Standard Deviation	0.5%	0.9%	0.9%
<b>NCNN - Vulkan GPU - squeezenet_ssd (ms)</b>	<b>40.38</b>	40.30	<b>40.28</b>
Normalized	99.75%	99.95%	100%
Standard Deviation	0.3%	0.1%	0.3%
<b>NCNN - Vulkan GPU - regnety_400m (ms)</b>	17.40	<b>17.38</b>	<b>17.45</b>
Normalized	99.89%	100%	99.6%
Standard Deviation	0.5%	0.3%	0.4%
<b>Apache Cassandra - Reads (Op/s)</b>	<b>97777</b>	<b>102667</b>	102545
Normalized	95.24%	100%	99.88%
Standard Deviation	6.7%	8.8%	6.3%
<b>Apache Cassandra - Writes (Op/s)</b>	<b>127224</b>	126906	<b>126891</b>
Normalized	100%	99.75%	99.74%
Standard Deviation	1.1%	0.8%	1.3%
<b>Apache Cassandra - Mixed 1:1 (Op/s)</b>	<b>96729</b>	<b>95421</b>	96576
Normalized	100%	98.65%	99.84%
Standard Deviation	2.8%	4%	0.9%
<b>Apache Cassandra - Mixed 1:3 (Op/s)</b>	<b>91795</b>	91659	<b>91386</b>
Normalized	100%	99.85%	99.55%
Standard Deviation	4.6%	8.3%	4.6%

## Quantum ESPRESSO 6.8

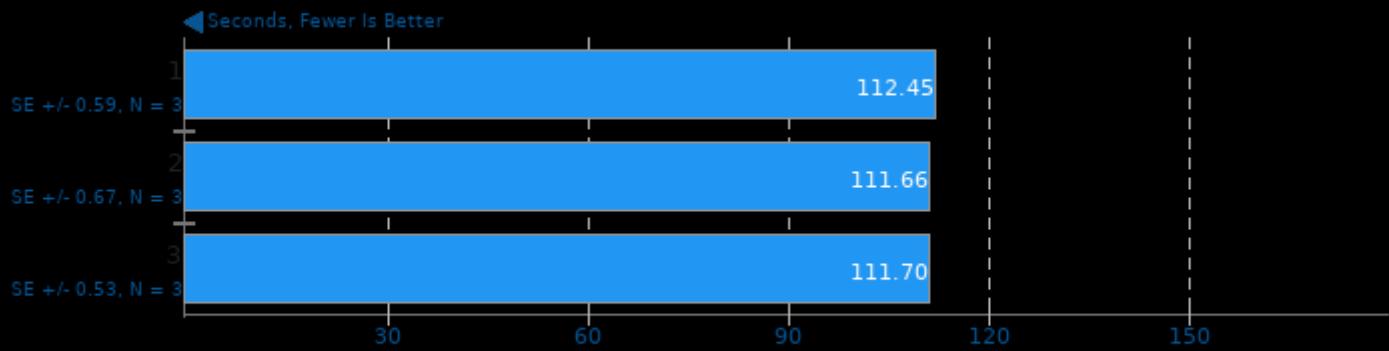
Input: AUSURF112



1. (F9X) gfortran options: -fopenmp -Iopenblas -IFoX\_dom -IFoX\_sax -IFoX\_wxml -IFoX\_common -IFoX\_utils -IFoX\_fsys -fftw3 -fthread -Impi\_usempif08 -Im

## YafaRay 3.5.1

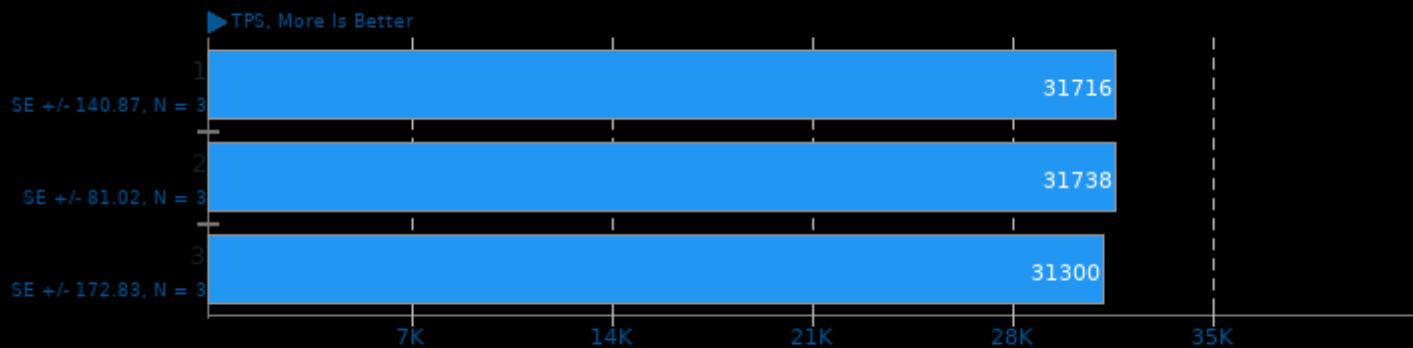
Total Time For Sample Scene



1. (CXX) g++ options: -std=c++11 -fthread -O3 -ffast-math -rdynamic -ldl -lmath -lmmif -lex -lHalf -lz -lmmThread -lxml2 -lfreetype

## PostgreSQL pgbench 13.0

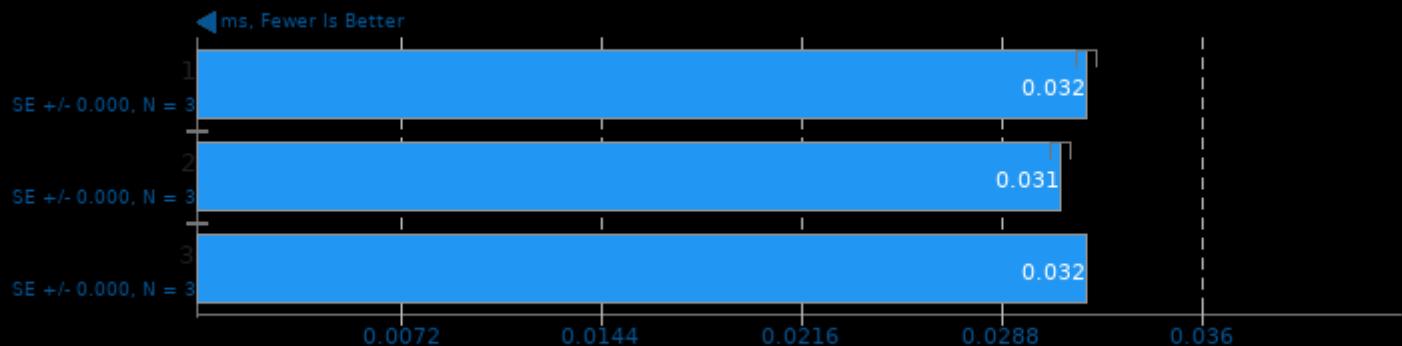
Scaling Factor: 1 - Clients: 1 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpqcommon -lpqport -lpq -fthread -lrt -ldl -lm

## PostgreSQL pgbench 13.0

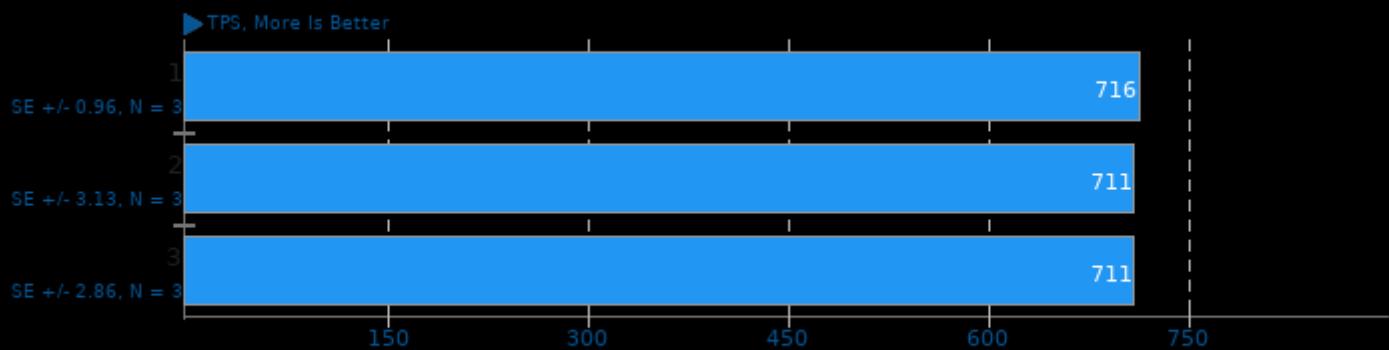
Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency



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

## PostgreSQL pgbench 13.0

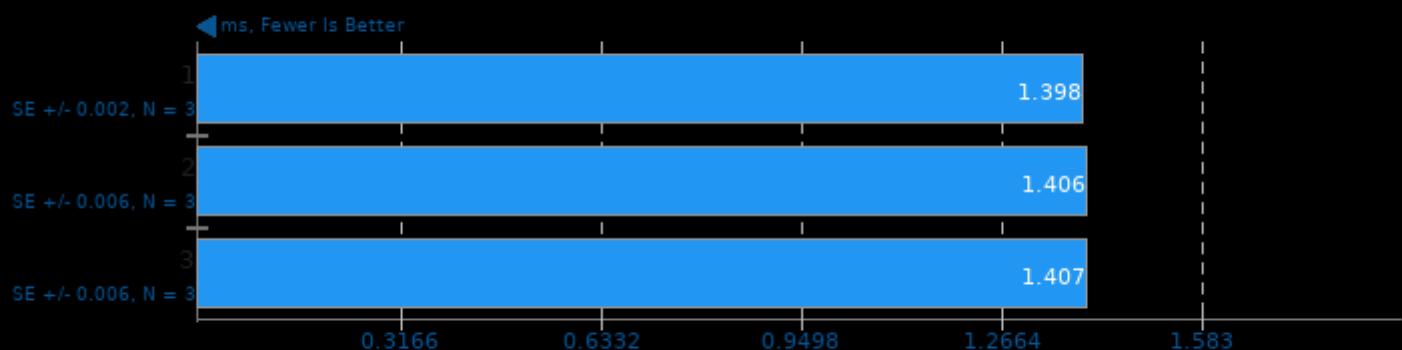
Scaling Factor: 1 - Clients: 1 - Mode: Read Write



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

## PostgreSQL pgbench 13.0

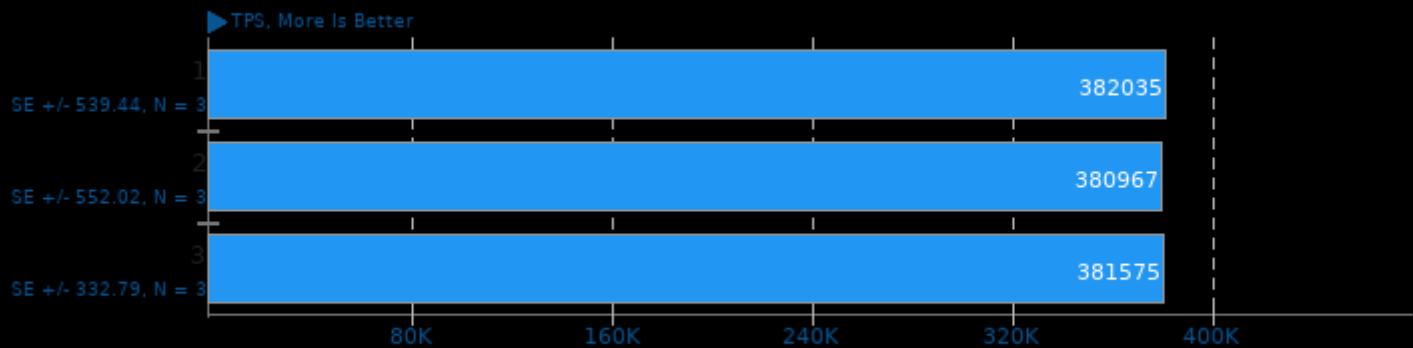
Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency



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

## PostgreSQL pgbench 13.0

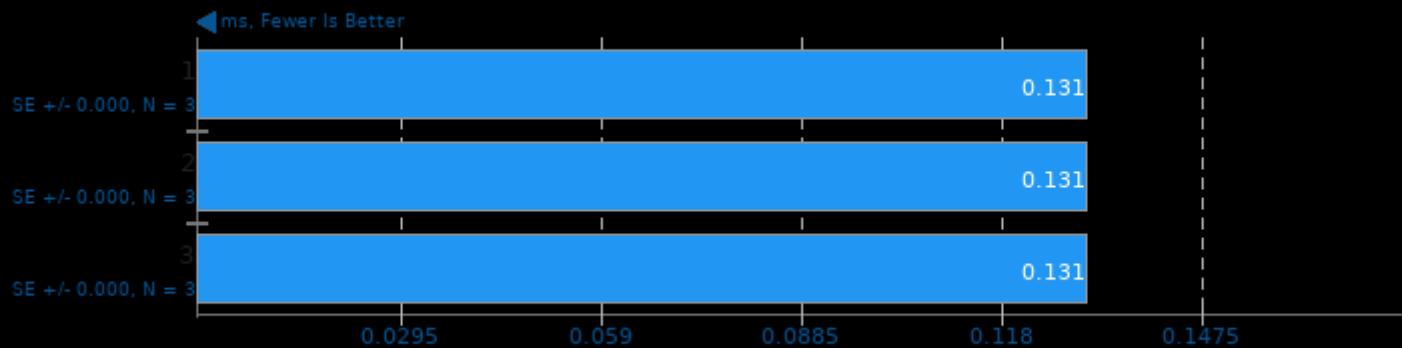
Scaling Factor: 1 - Clients: 50 - Mode: Read Only



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

## PostgreSQL pgbench 13.0

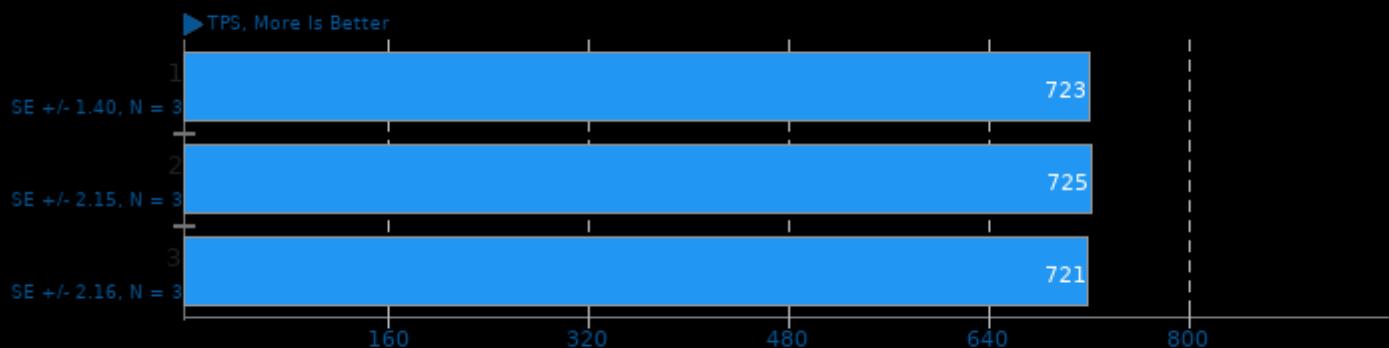
Scaling Factor: 1 - Clients: 50 - Mode: Read Only - Average Latency



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

## PostgreSQL pgbench 13.0

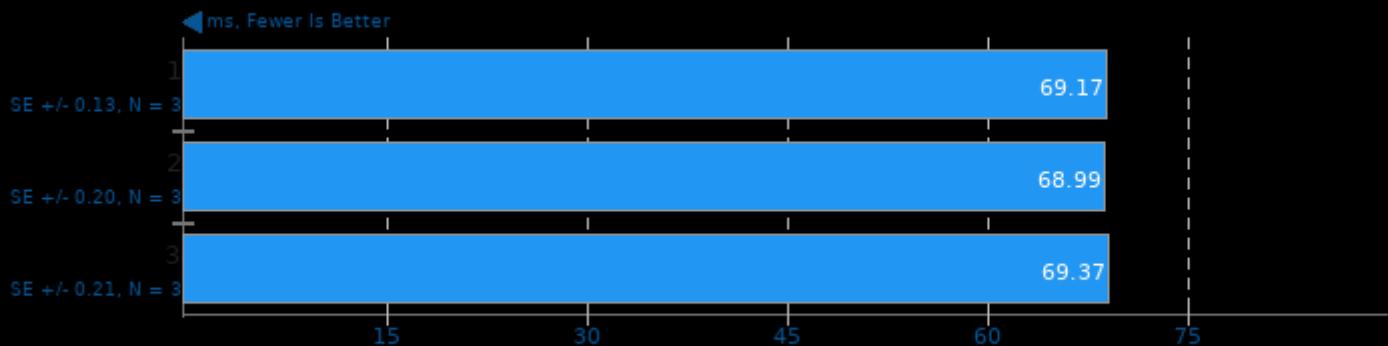
Scaling Factor: 1 - Clients: 50 - Mode: Read Write



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

## PostgreSQL pgbench 13.0

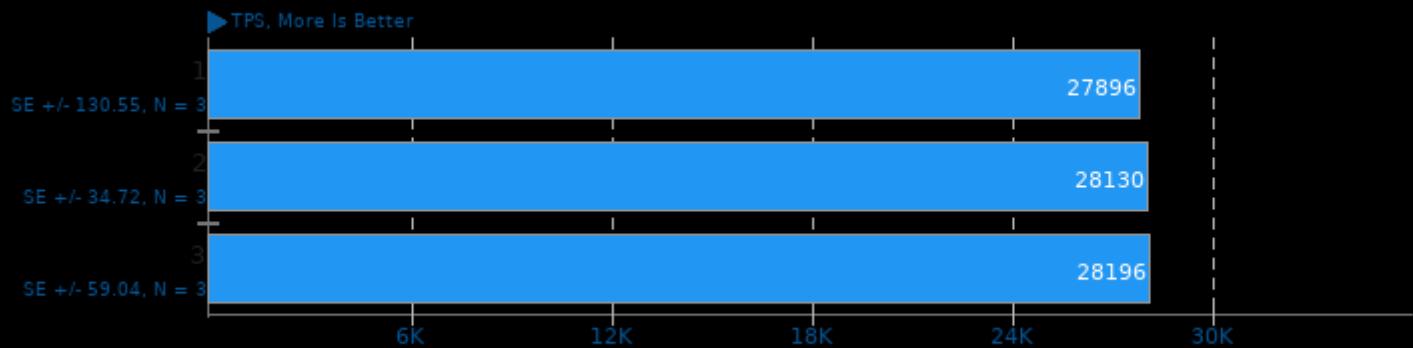
Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency



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

## PostgreSQL pgbench 13.0

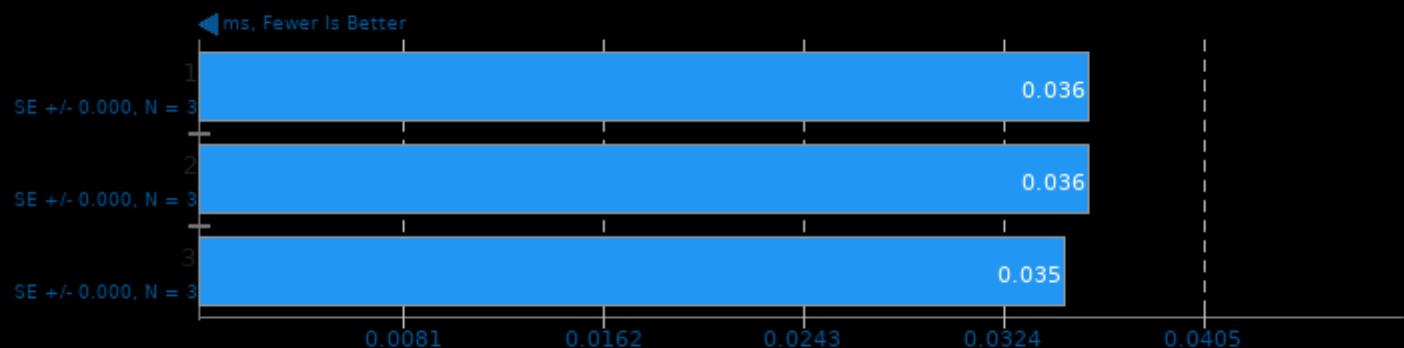
Scaling Factor: 100 - Clients: 1 - Mode: Read Only



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

## PostgreSQL pgbench 13.0

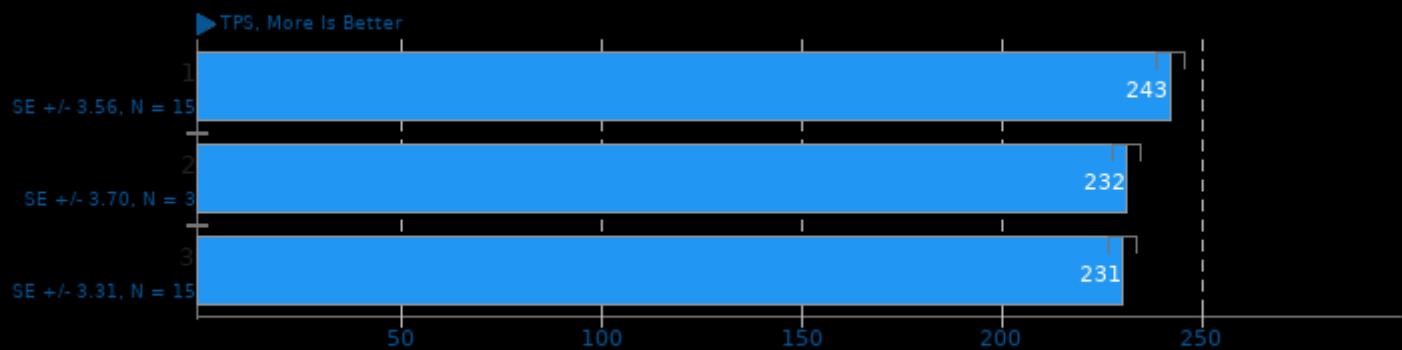
Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency



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

## PostgreSQL pgbench 13.0

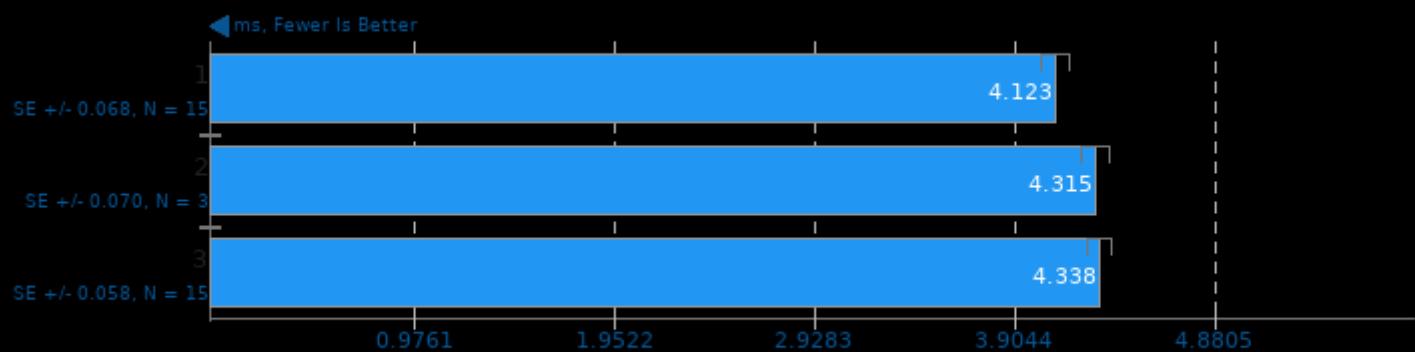
Scaling Factor: 100 - Clients: 1 - Mode: Read Write



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

## PostgreSQL pgbench 13.0

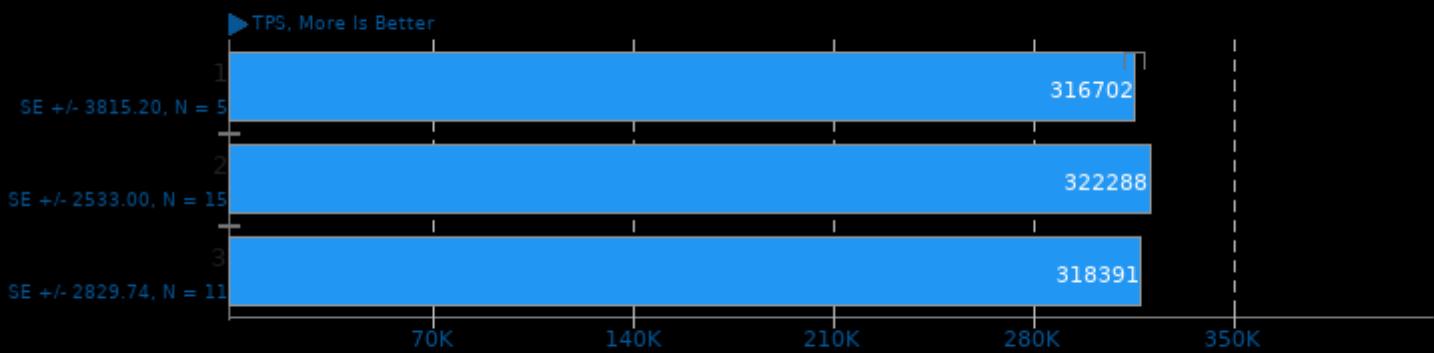
Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency



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

## PostgreSQL pgbench 13.0

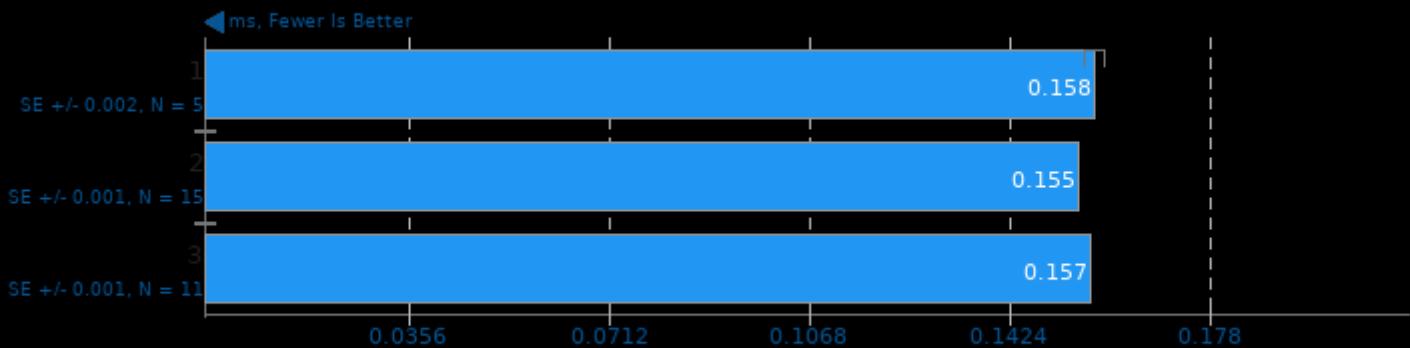
Scaling Factor: 100 - Clients: 50 - Mode: Read Only



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

## PostgreSQL pgbench 13.0

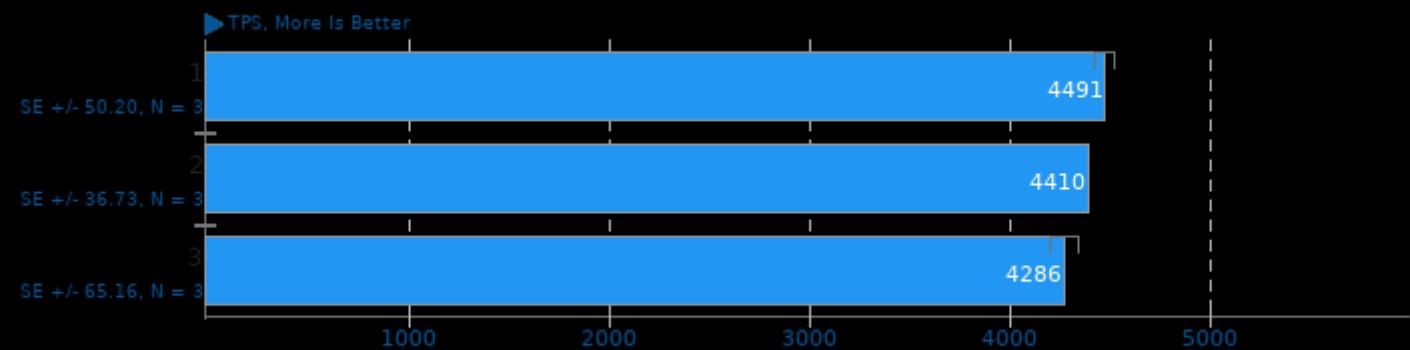
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



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

## PostgreSQL pgbench 13.0

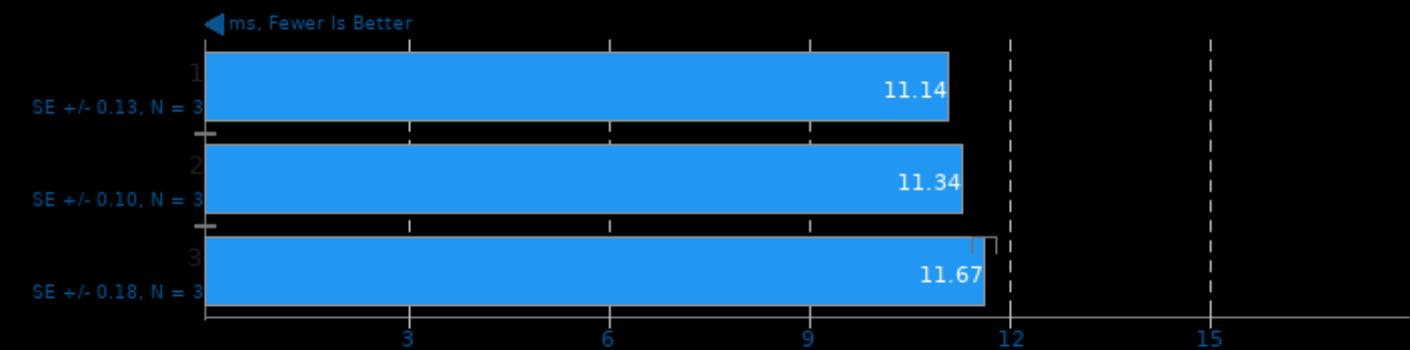
Scaling Factor: 100 - Clients: 50 - Mode: Read Write



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

## PostgreSQL pgbench 13.0

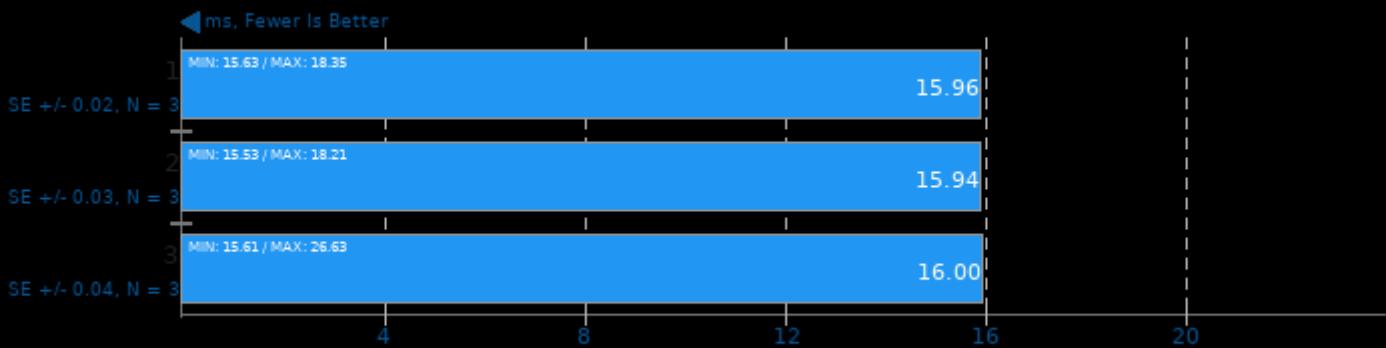
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency



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

**NCNN 20210720**

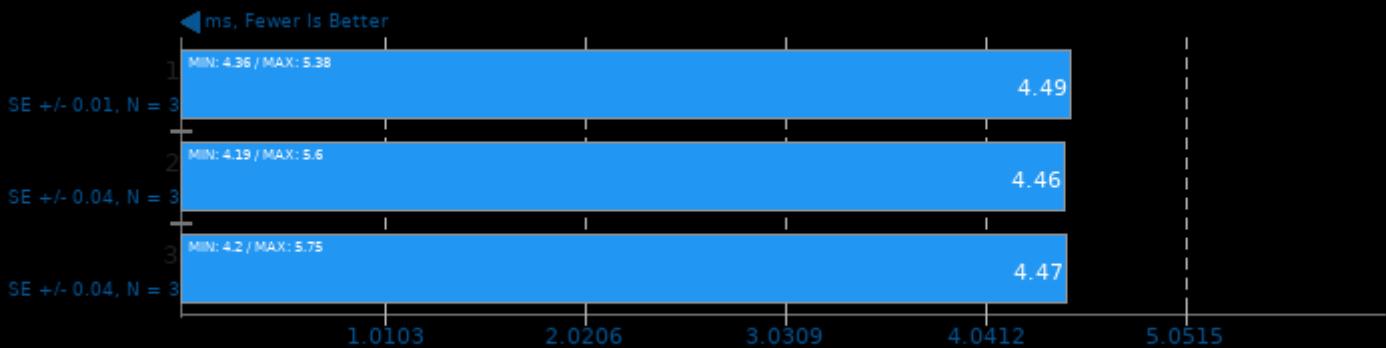
Target: CPU - Model: mobilenet



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

**NCNN 20210720**

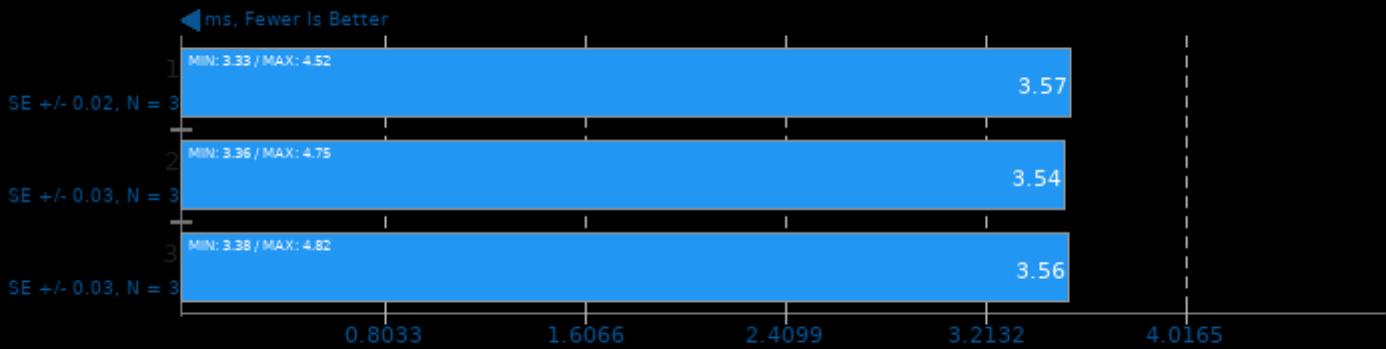
Target: CPU-v2-v2 - Model: mobilenet-v2



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

**NCNN 20210720**

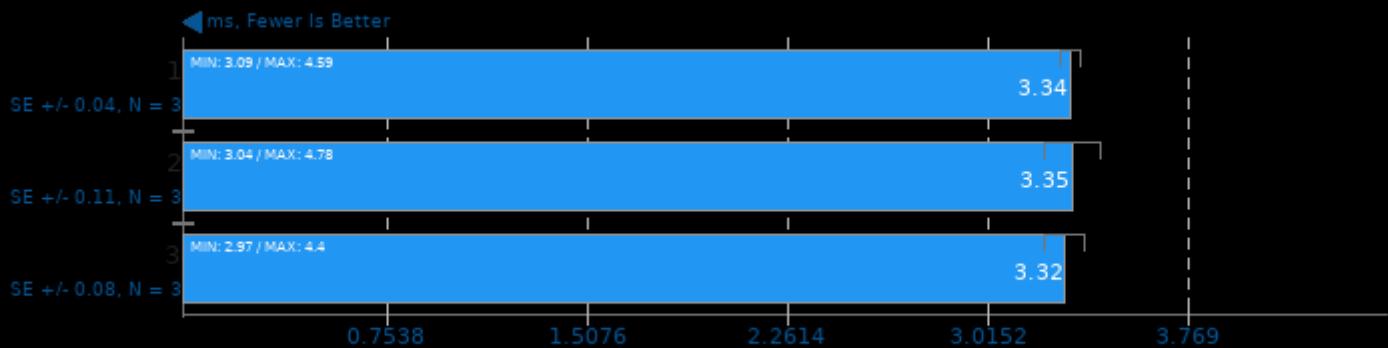
Target: CPU-v3-v3 - Model: mobilenet-v3



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

**NCNN 20210720**

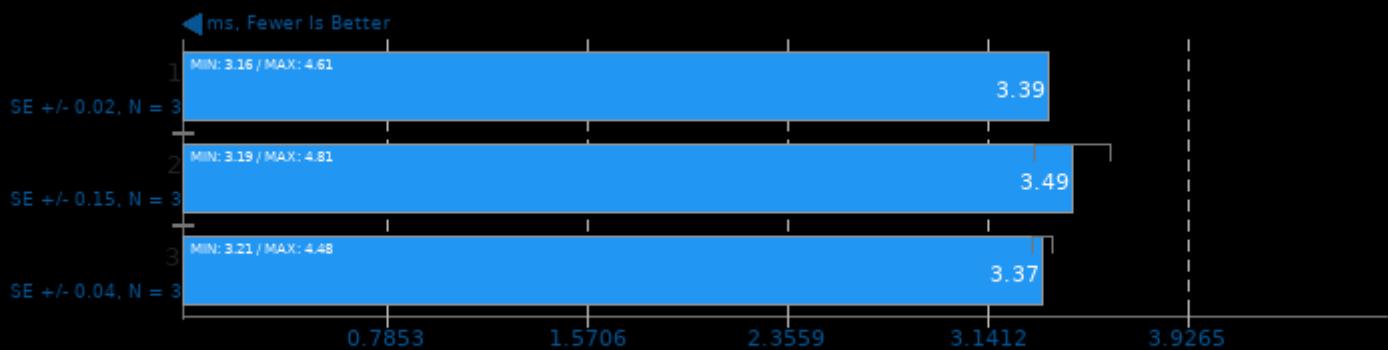
Target: CPU - Model: shufflenet-v2



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

**NCNN 20210720**

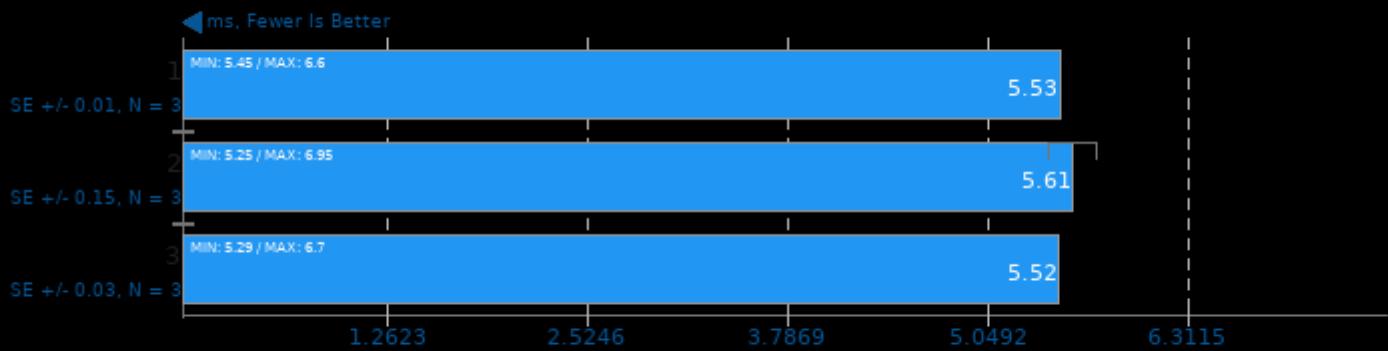
Target: CPU - Model: mnasnet



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

**NCNN 20210720**

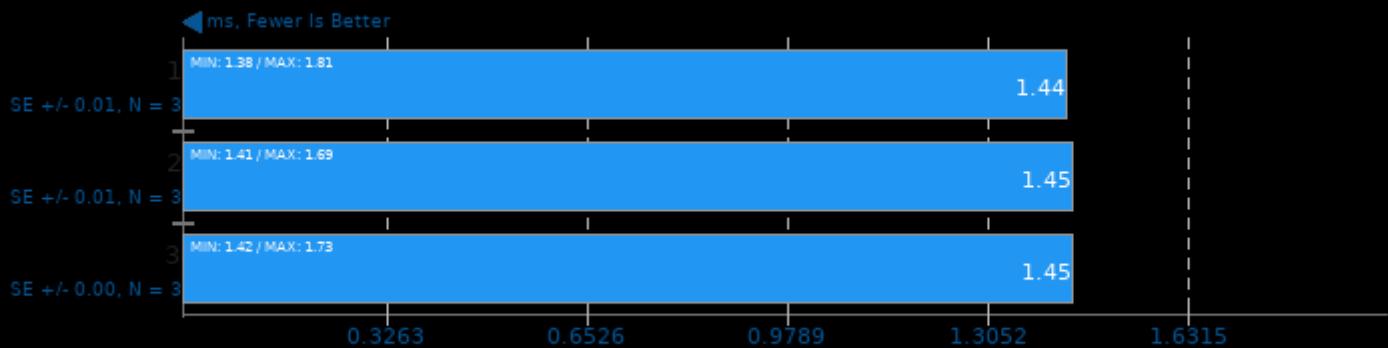
Target: CPU - Model: efficientnet-b0



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

**NCNN 20210720**

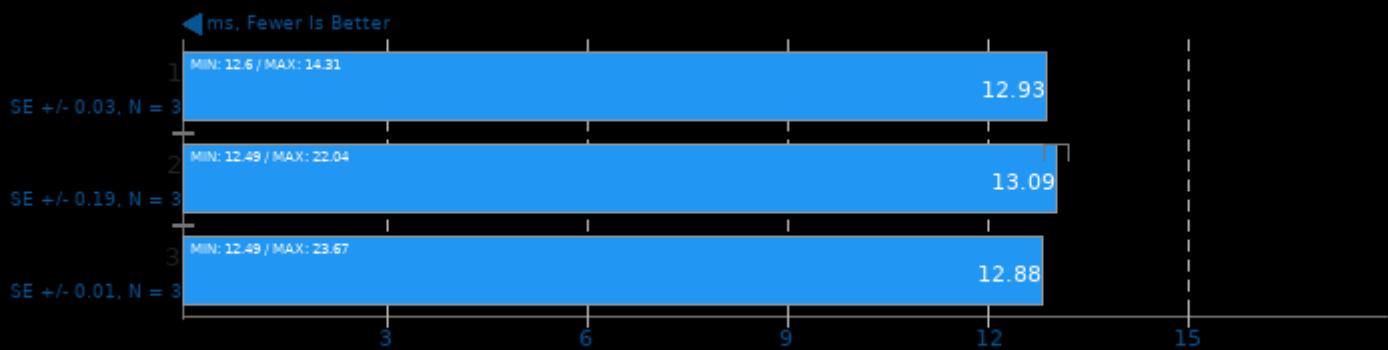
Target: CPU - Model: blazeface



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

**NCNN 20210720**

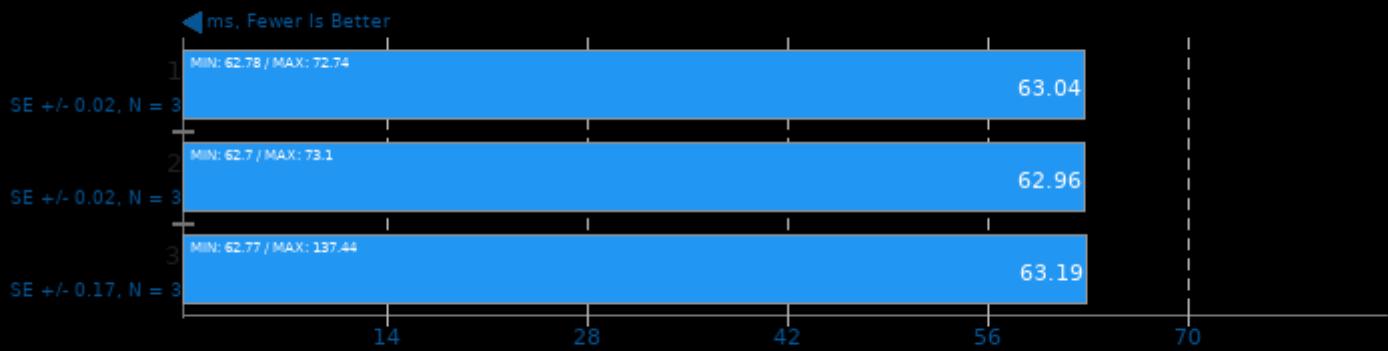
Target: CPU - Model: googlenet



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

**NCNN 20210720**

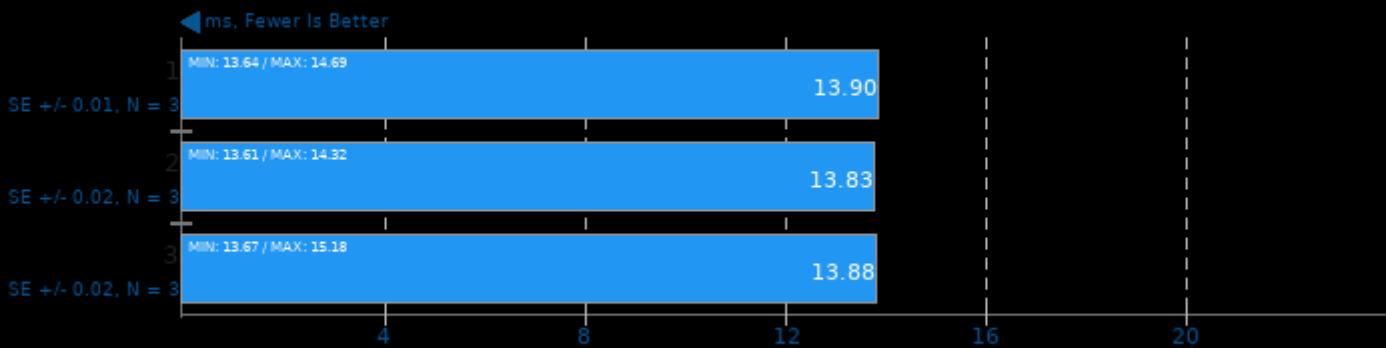
Target: CPU - Model: vgg16



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

**NCNN 20210720**

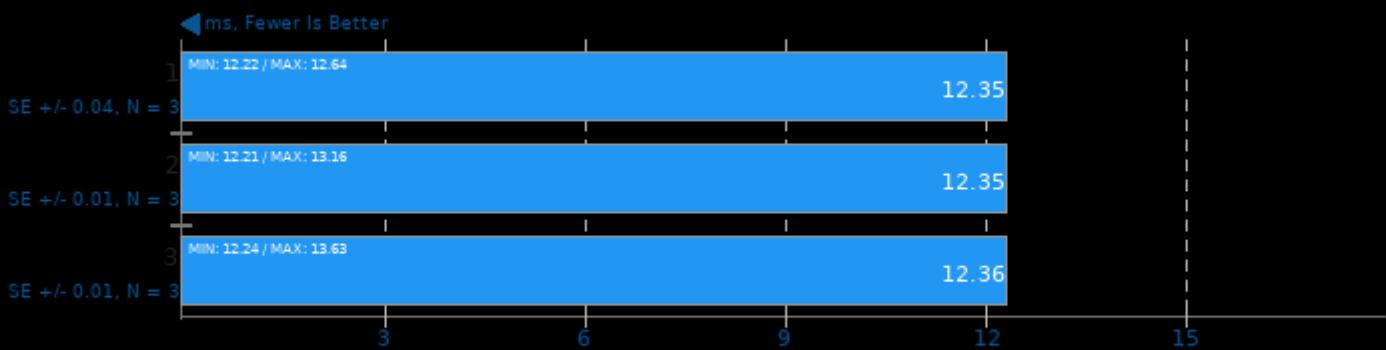
Target: CPU - Model: resnet18



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

**NCNN 20210720**

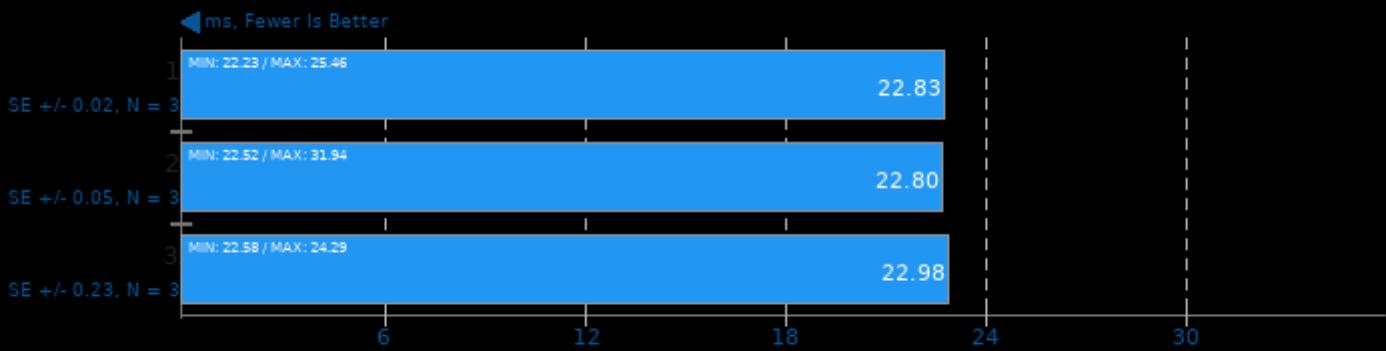
Target: CPU - Model: alexnet



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

**NCNN 20210720**

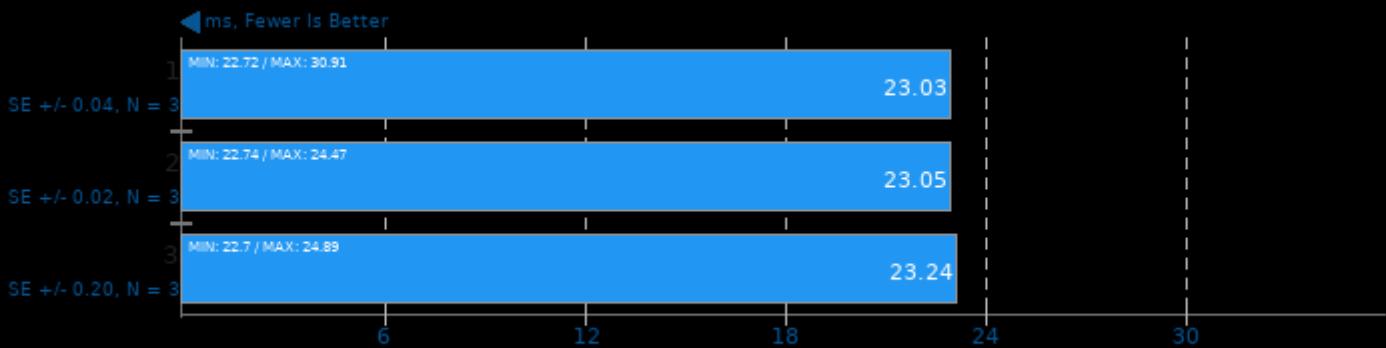
Target: CPU - Model: resnet50



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

**NCNN 20210720**

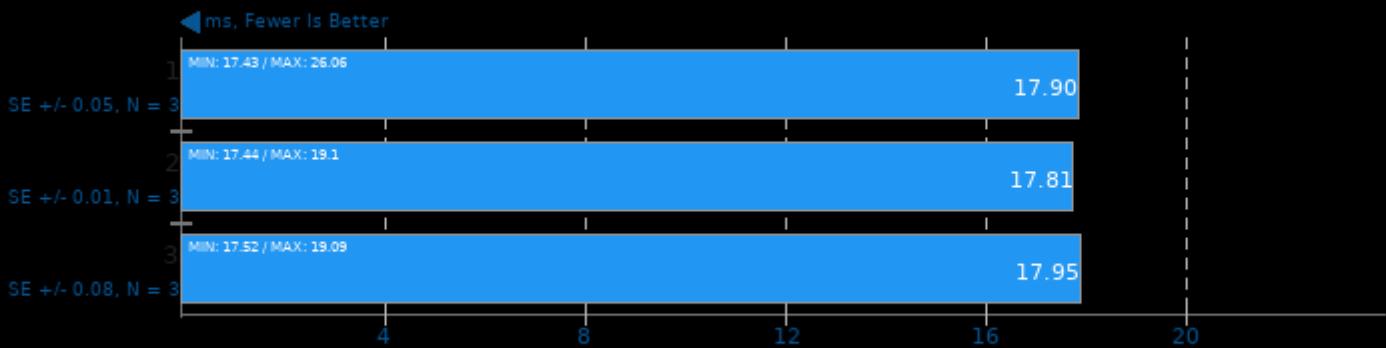
Target: CPU - Model: yolov4-tiny



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

**NCNN 20210720**

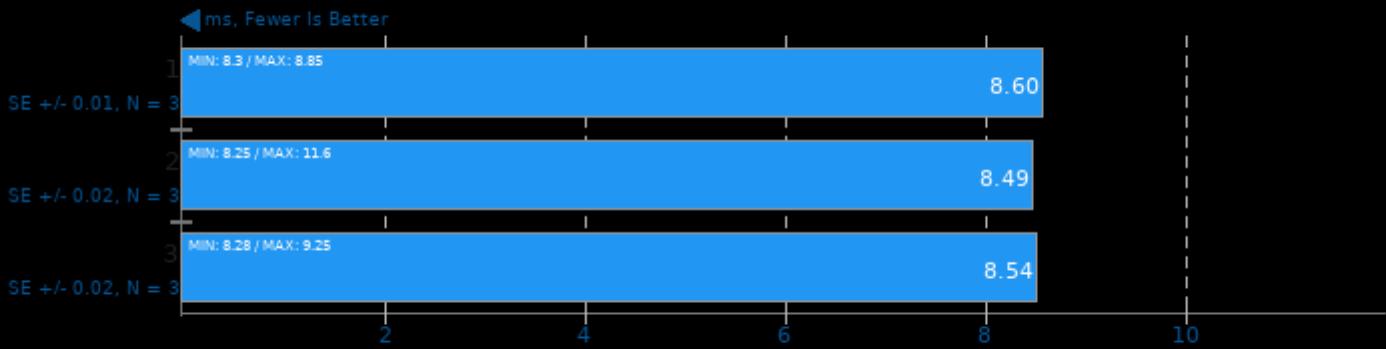
Target: CPU - Model: squeezezenet\_ssdl



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

**NCNN 20210720**

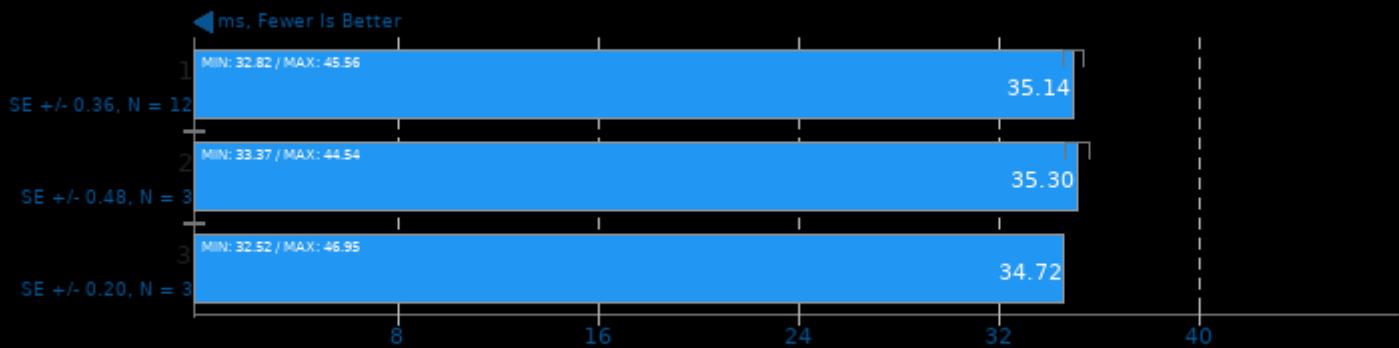
Target: CPU - Model: regnety\_400m



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

**NCNN 20210720**

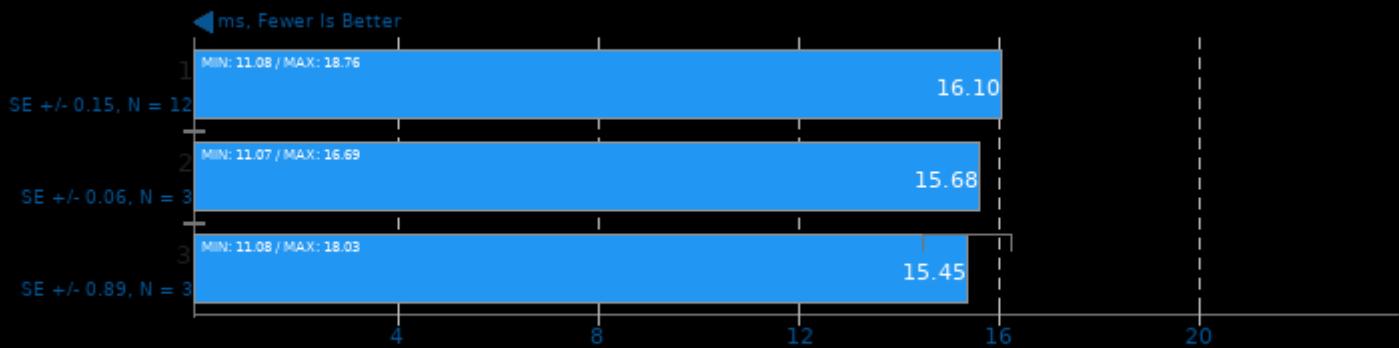
Target: Vulkan GPU - Model: mobilenet



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

**NCNN 20210720**

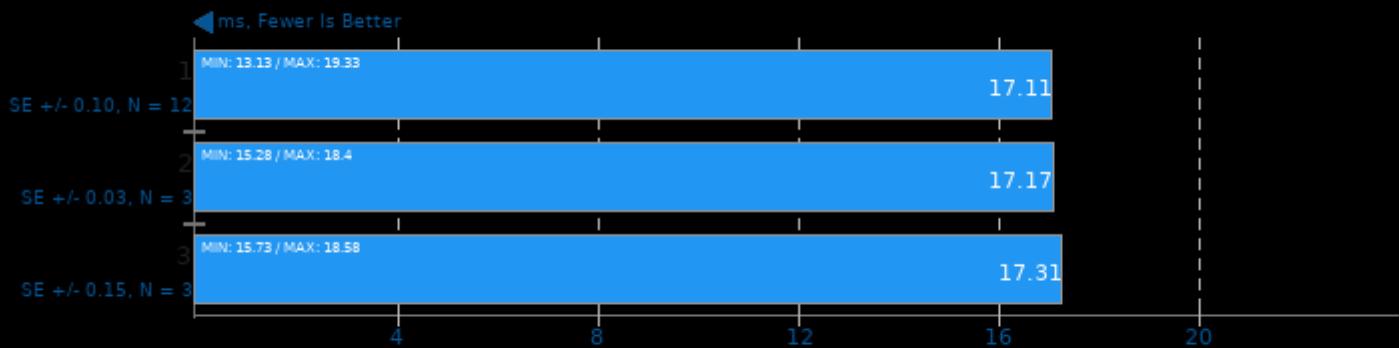
Target: Vulkan GPU-v2-v2 - Model: mobilenet-v2



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

**NCNN 20210720**

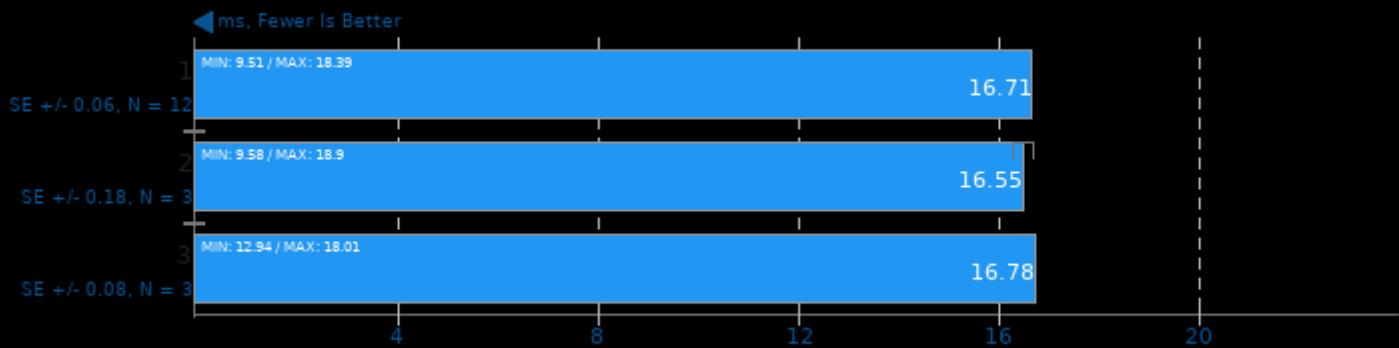
Target: Vulkan GPU-v3-v3 - Model: mobilenet-v3



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

## NCNN 20210720

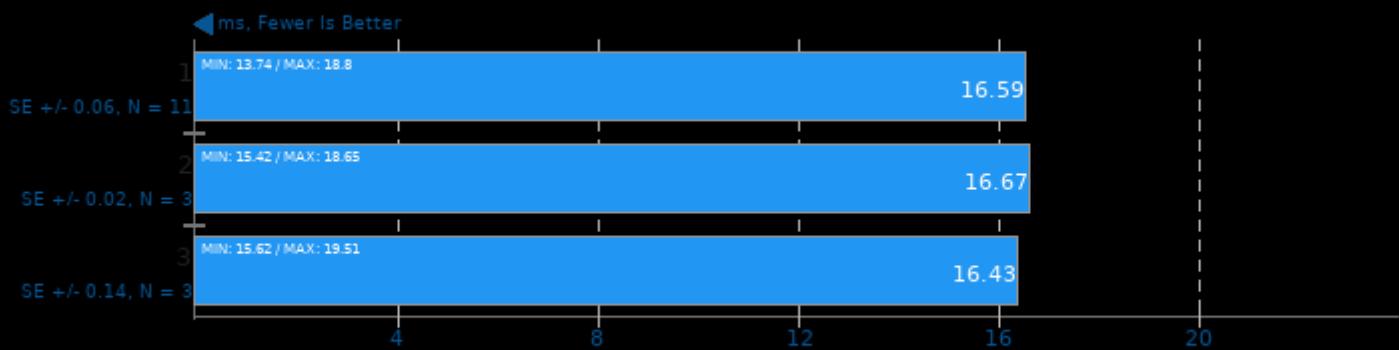
Target: Vulkan GPU - Model: shufflenet-v2



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

## NCNN 20210720

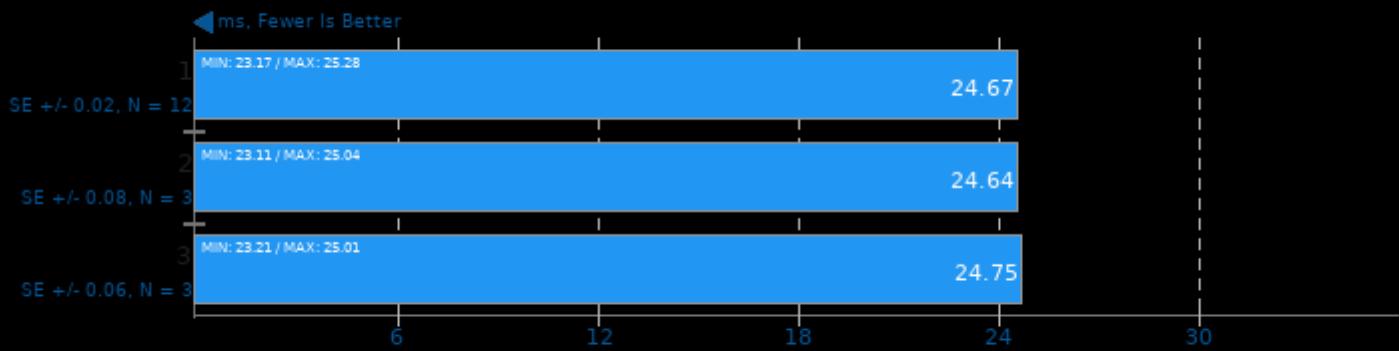
Target: Vulkan GPU - Model: mnasnet



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

## NCNN 20210720

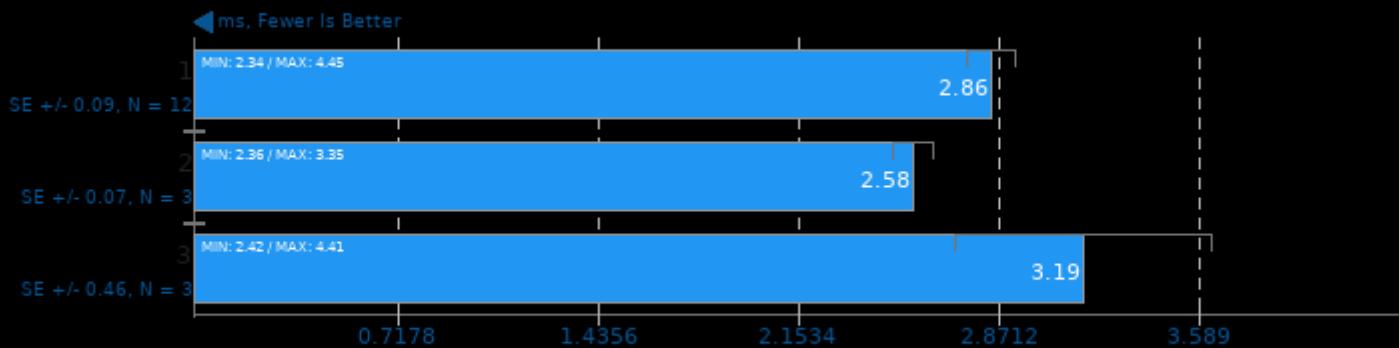
Target: Vulkan GPU - Model: efficientnet-b0



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

**NCNN 20210720**

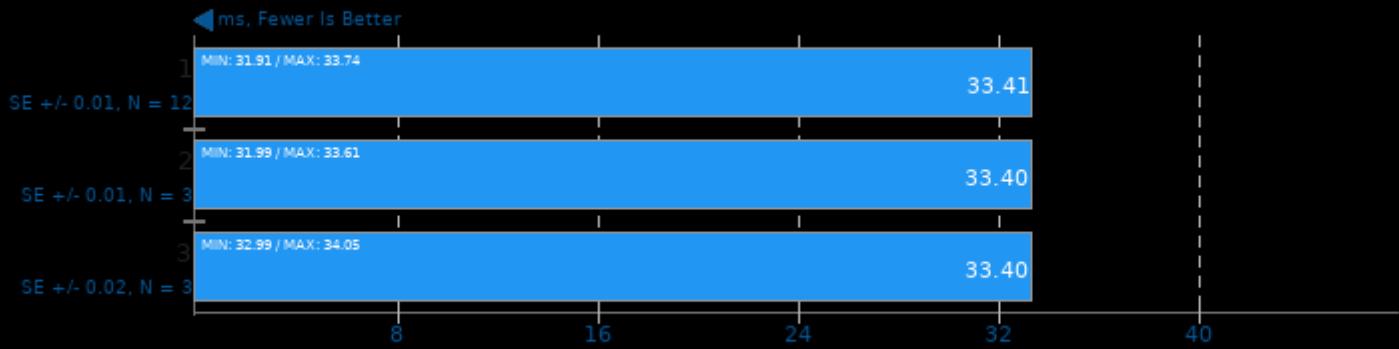
Target: Vulkan GPU - Model: blazeface



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

**NCNN 20210720**

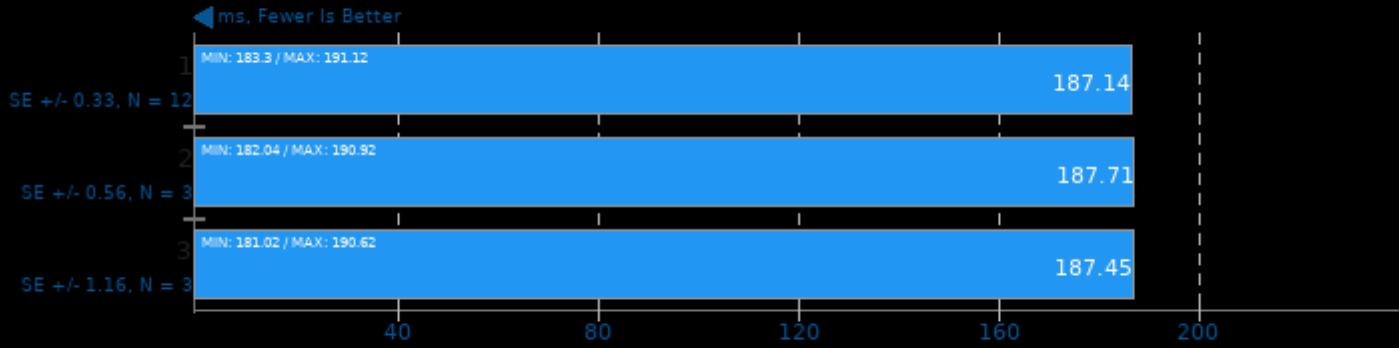
Target: Vulkan GPU - Model: googlenet



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

**NCNN 20210720**

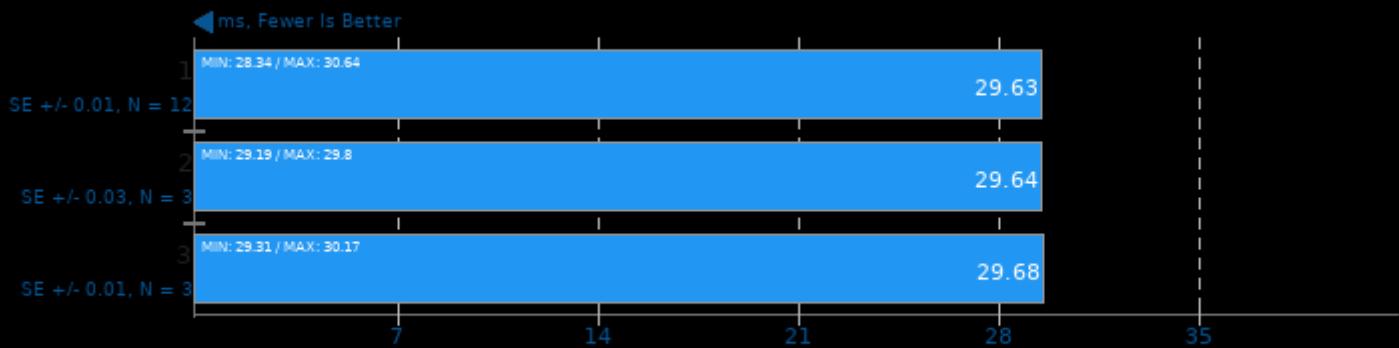
Target: Vulkan GPU - Model: vgg16



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

**NCNN 20210720**

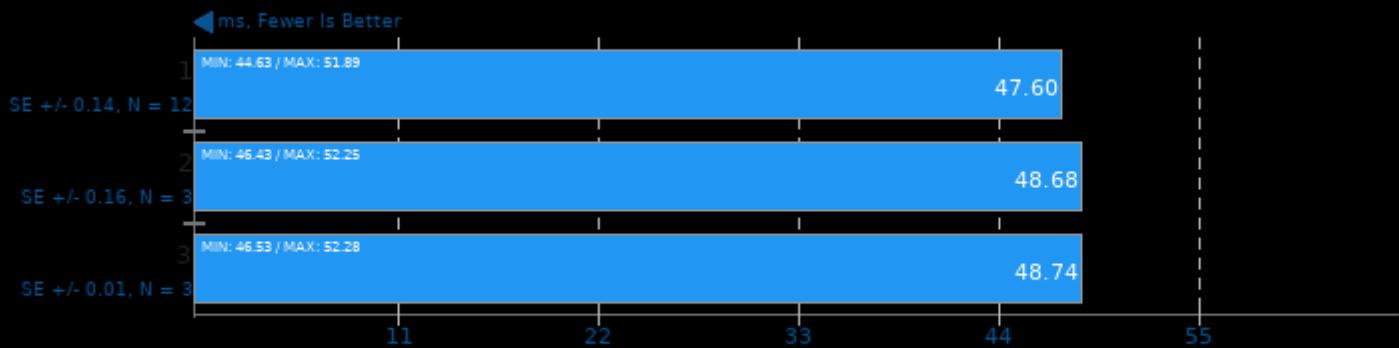
Target: Vulkan GPU - Model: resnet18



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

**NCNN 20210720**

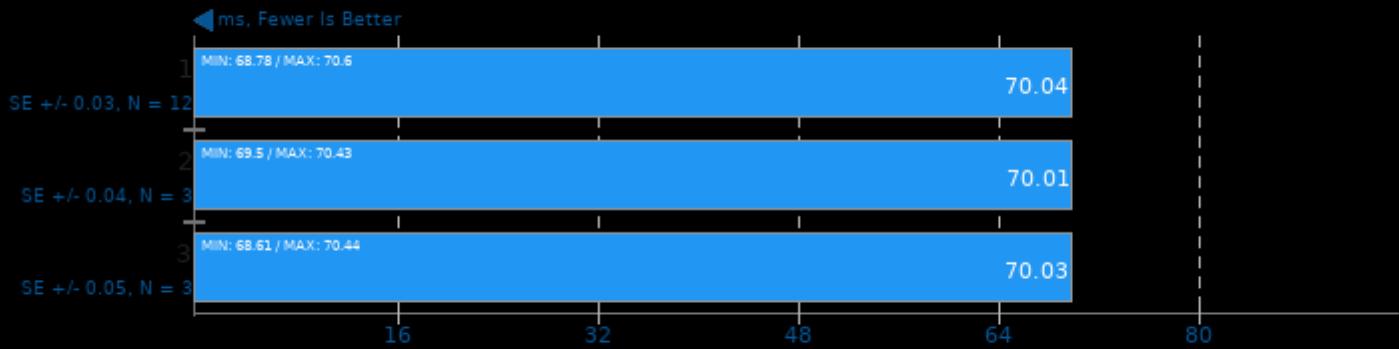
Target: Vulkan GPU - Model: alexnet



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

**NCNN 20210720**

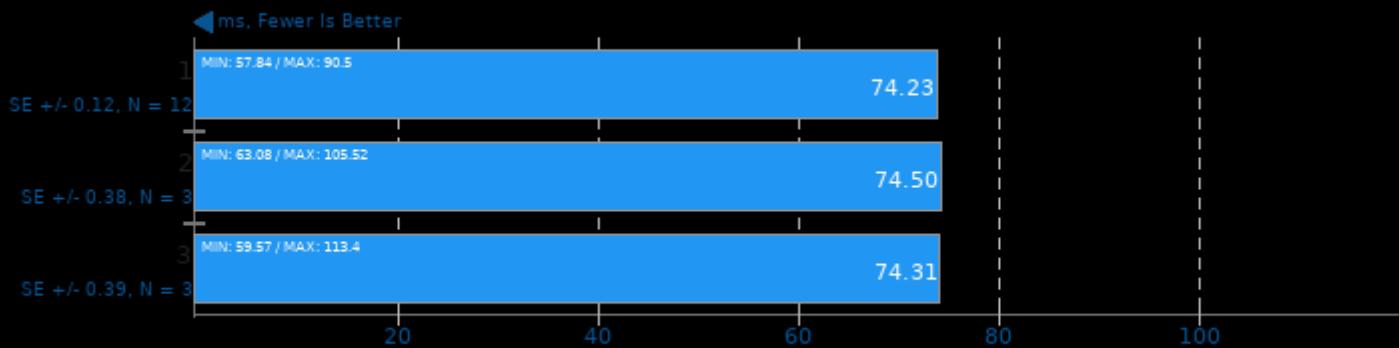
Target: Vulkan GPU - Model: resnet50



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

**NCNN 20210720**

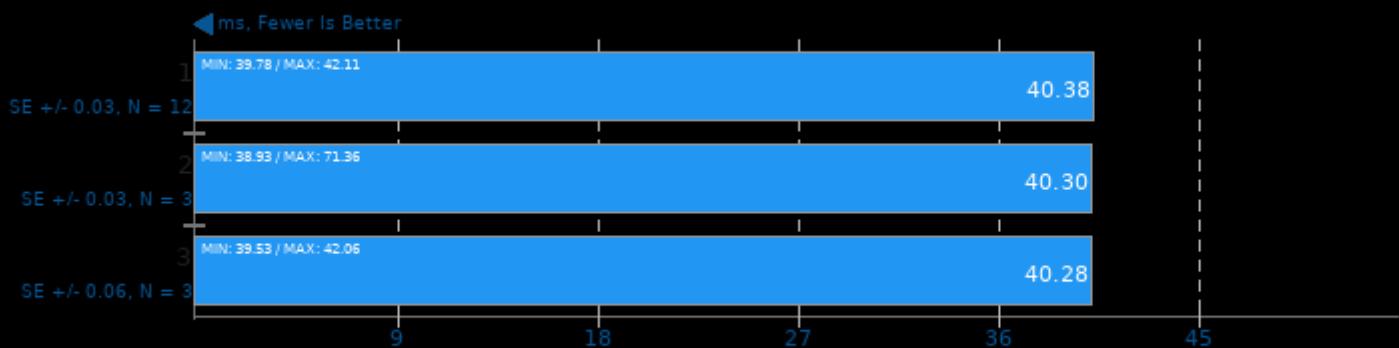
Target: Vulkan GPU - Model: yolov4-tiny



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

**NCNN 20210720**

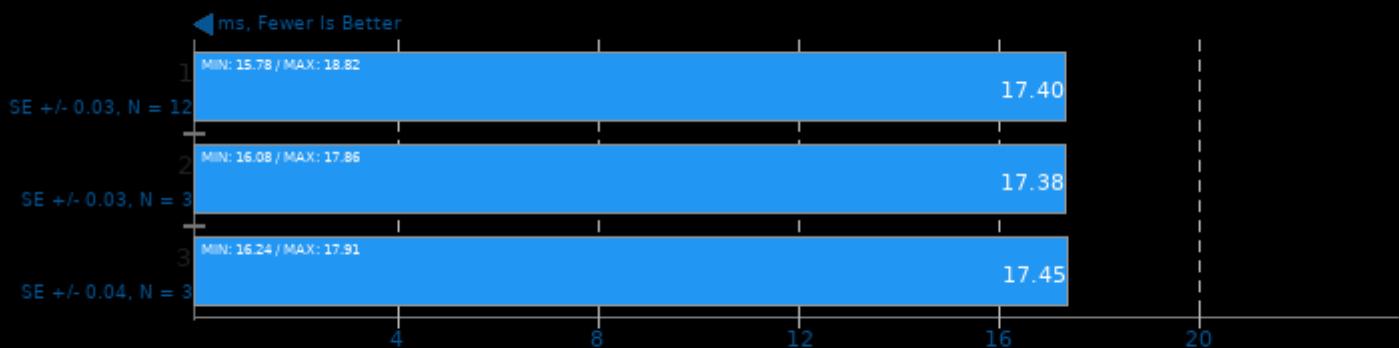
Target: Vulkan GPU - Model: squeezenet\_ssd



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

**NCNN 20210720**

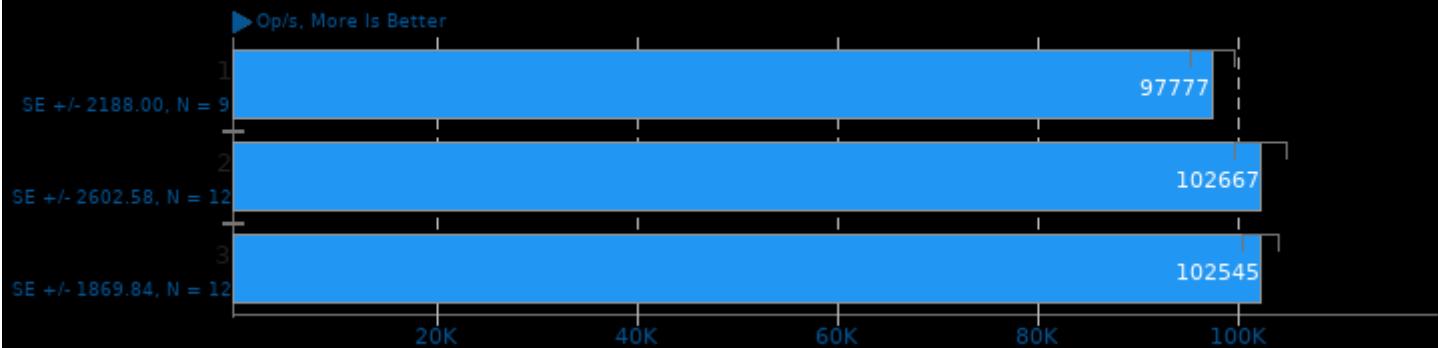
Target: Vulkan GPU - Model: regnety\_400m



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

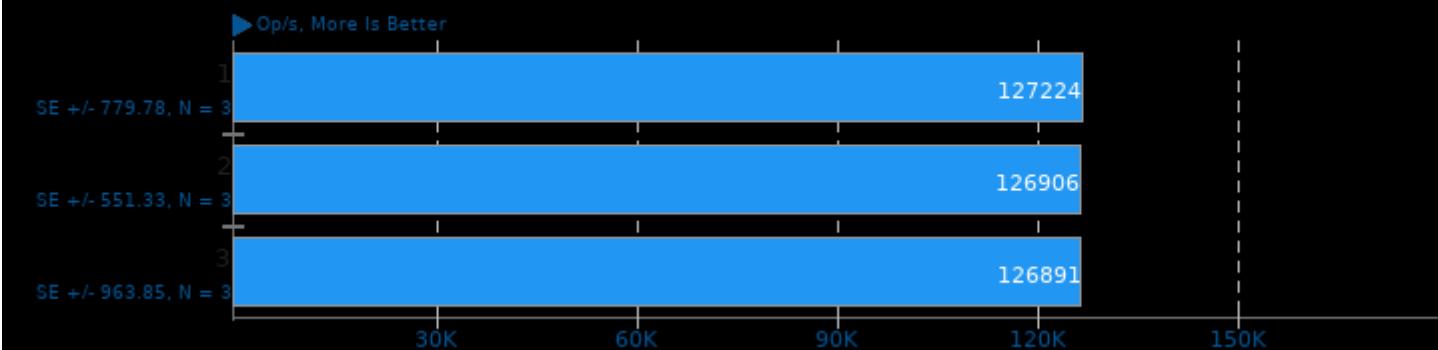
## Apache Cassandra 4.0

Test: Reads



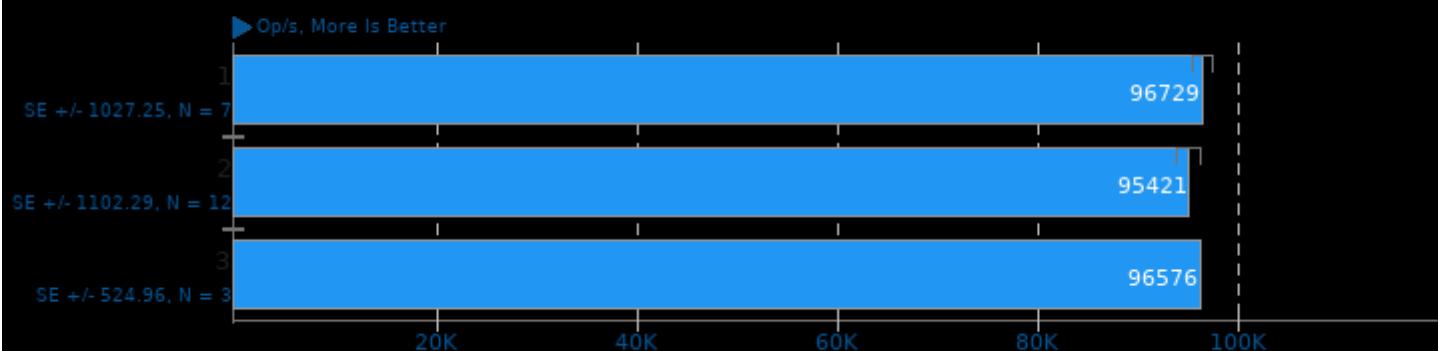
## Apache Cassandra 4.0

Test: Writes



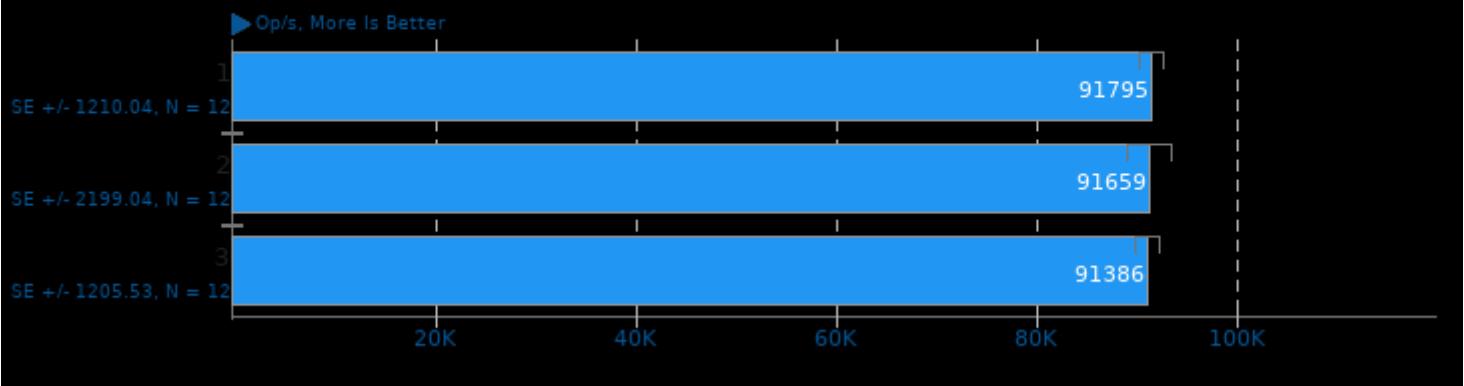
## Apache Cassandra 4.0

Test: Mixed 1:1



## Apache Cassandra 4.0

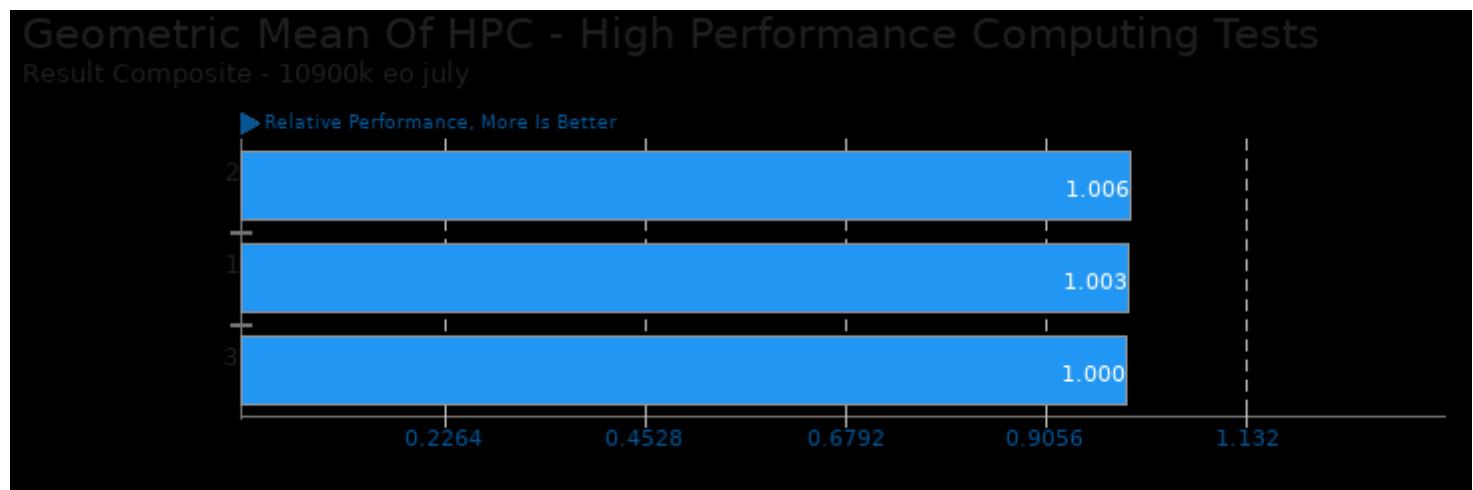
Test: Mixed 1:3



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



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



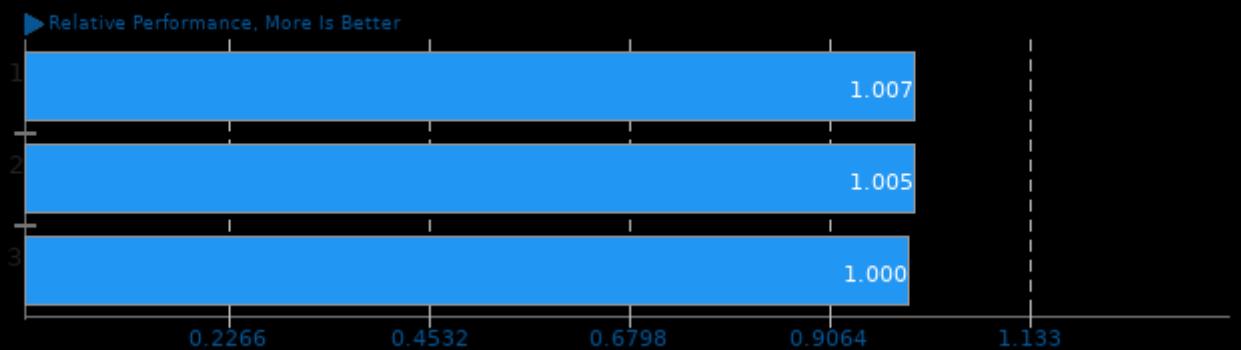
Geometric mean based upon tests: pts/qe and pts/ncnn



Geometric mean based upon tests: pts/yafaray, pts/cassandra and pts/pgbench

## Geometric Mean Of Server Tests

Result Composite - 10900k eo july



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

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 07:24.*