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AMD Ryzen 3 3200U testing with a MOTILE PF4PU1F (N.1.03 BIOS) and AMD Picasso 512MB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 45% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.015x the speed of the slowest (4). 3 was 0.997x the speed of 1, 2 was 0.992x the speed of 3, 4 was 0.997x the speed of 2.

Test Systems:

1

2

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3

4

Processor: AMD Ryzen 3 3200U @ 2.60GHz (2 Cores / 4 Threads), Motherboard: MOTILE PF4PU1F (N.1.03 BIOS), Chipset: AMD Raven/Raven2, Memory: 3584MB, Disk: 128GB BIWIN SSD, Graphics: AMD Picasso 512MB (1200/1200MHz), Audio: AMD Raven/Raven2/Fenghuang, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Ubuntu 20.04, Kernel: 5.4.0-58-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: amdgpu 19.1.0, OpenGL: 4.6 Mesa 20.0.8 (LLVM 10.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

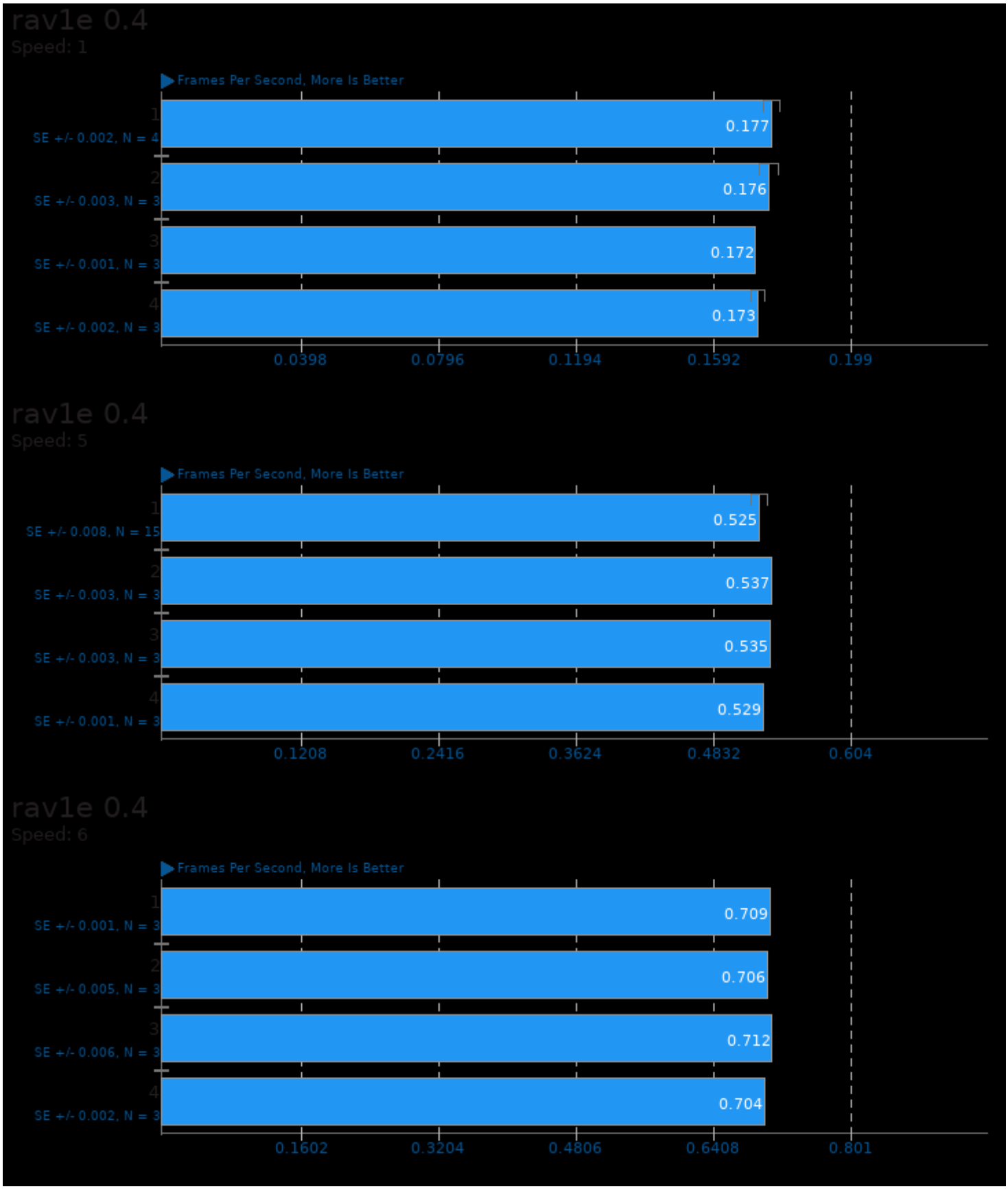
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8108102
Security Notes: itlb_multihit: Not affected + 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 Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	1	2	3	4
rav1e - 1 (FPS)	**0.177**	0.176	**0.172**	0.173
Normalized	100%	99.44%	97.18%	97.74%
Standard Deviation	2.5%	2.8%	1.3%	2.1%
rav1e - 5 (FPS)	**0.525**	**0.537**	0.535	0.529
Normalized	97.77%	100%	99.63%	98.51%
Standard Deviation	5.8%	0.9%	0.9%	0.2%
rav1e - 6 (FPS)	0.709	0.706	**0.712**	**0.704**
Normalized	99.58%	99.16%	100%	98.88%
Standard Deviation	0.3%	1.3%	1.4%	0.6%
rav1e - 10 (FPS)	1.789	1.789	**1.797**	**1.783**
Normalized	99.55%	99.55%	100%	99.22%
Standard Deviation	0.1%	0.7%	0.5%	0.8%
Mobile Neural Network - SqueezeNetV1.0 (ms)	**24.767**	24.828	24.895	**25.525**
Normalized	100%	99.75%	99.49%	97.03%
Standard Deviation	1%	2.5%	2.8%	2.4%
Mobile Neural Network - resnet-v2-50 (ms)	136.274	132.351	**130.412**	**139.789**
Normalized	95.7%	98.53%	100%	93.29%
Standard Deviation	2%	12.3%	10.8%	1.1%
Mobile Neural Network - MobileNetV2_224 (ms)	**14.056**	14.174	**14.265**	14.248
Normalized	100%	99.17%	98.53%	98.65%
Standard Deviation	0.7%	0.6%	0.6%	0.2%
Mobile Neural Network - mobilenet-v1-1.0 (ms)	**20.235**	**22.890**	20.644	20.675
Normalized	100%	88.4%	98.02%	97.87%
Standard Deviation	0.6%	18.7%	1.1%	0.2%

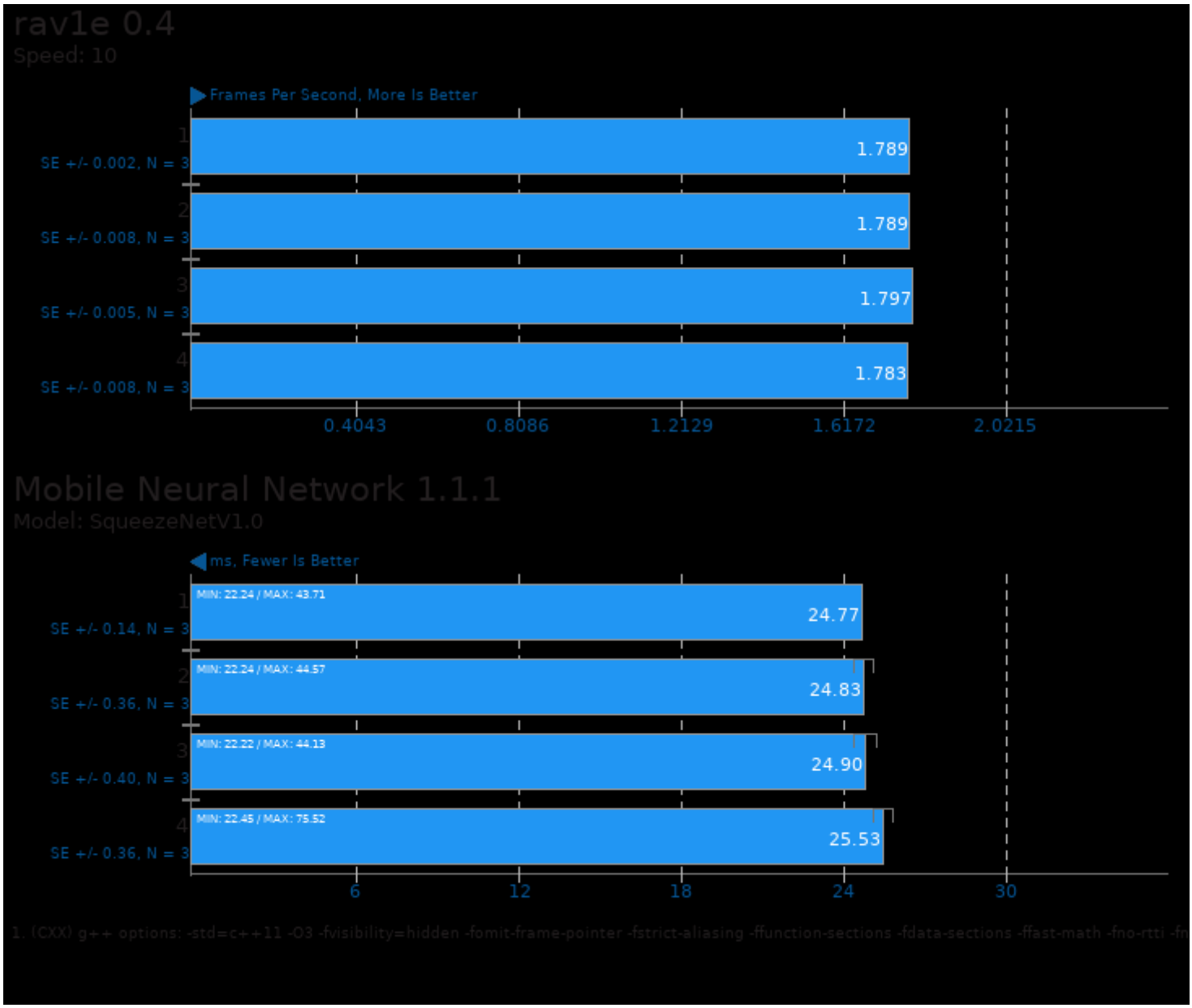
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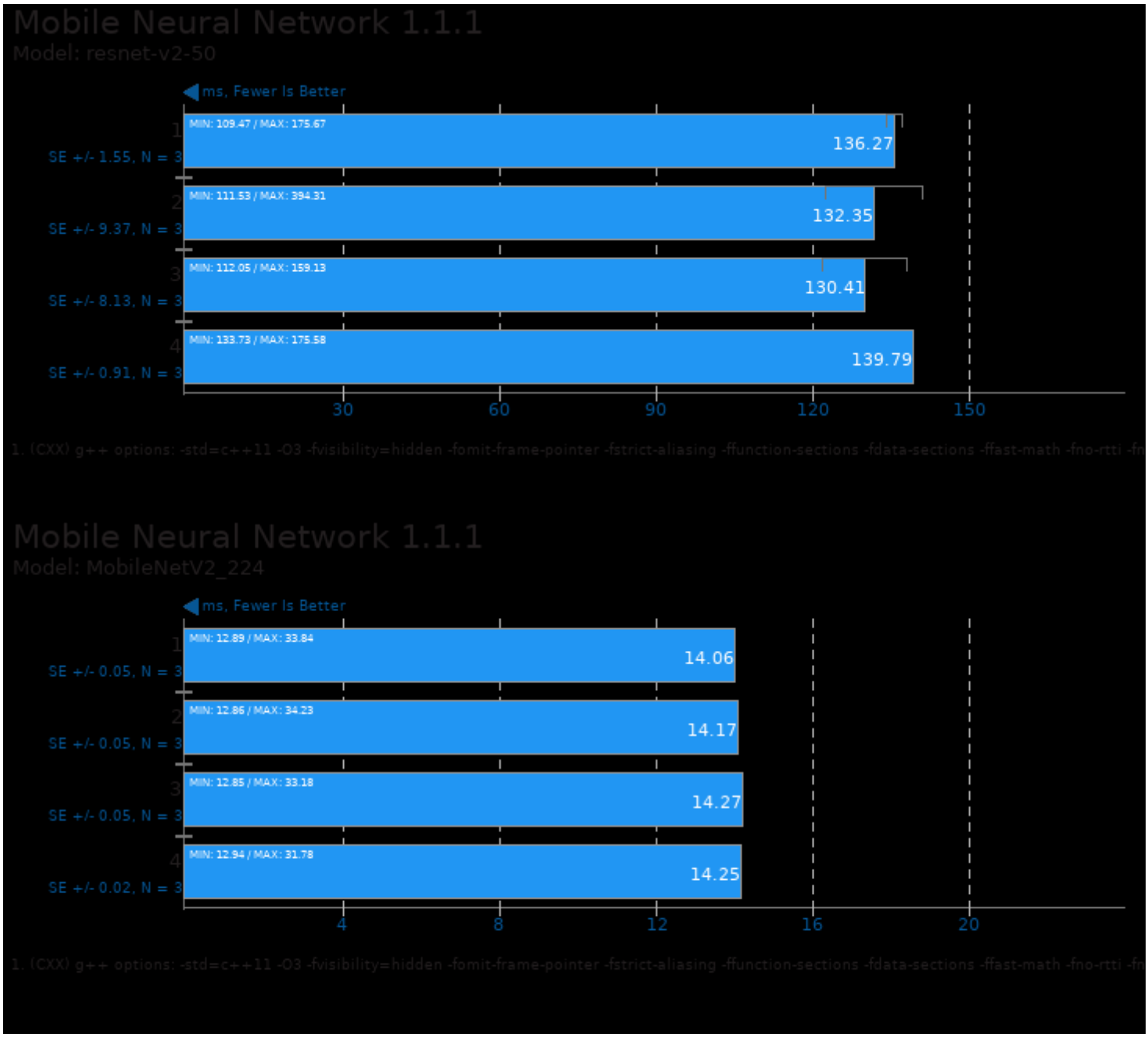
Mobile Neural Network - inception-v3 (ms)	**168.531**	175.625	**176.211**	176.094
Normalized	100%	95.96%	95.64%	95.71%
Standard Deviation	5.7%	2.2%	2.6%	3.2%
TNN - CPU - MobileNet v2 (ms)	322.746	**322.367**	322.975	**323.092**
Normalized	99.88%	100%	99.81%	99.78%
Standard Deviation	0.1%	0.1%	0.1%	0.2%
TNN - CPU - SqueezeNet v1.1 (ms)	**310.907**	310.739	310.793	**310.643**
Normalized	99.92%	99.97%	99.95%	100%
Standard Deviation	0.1%	0%	0.2%	0.1%

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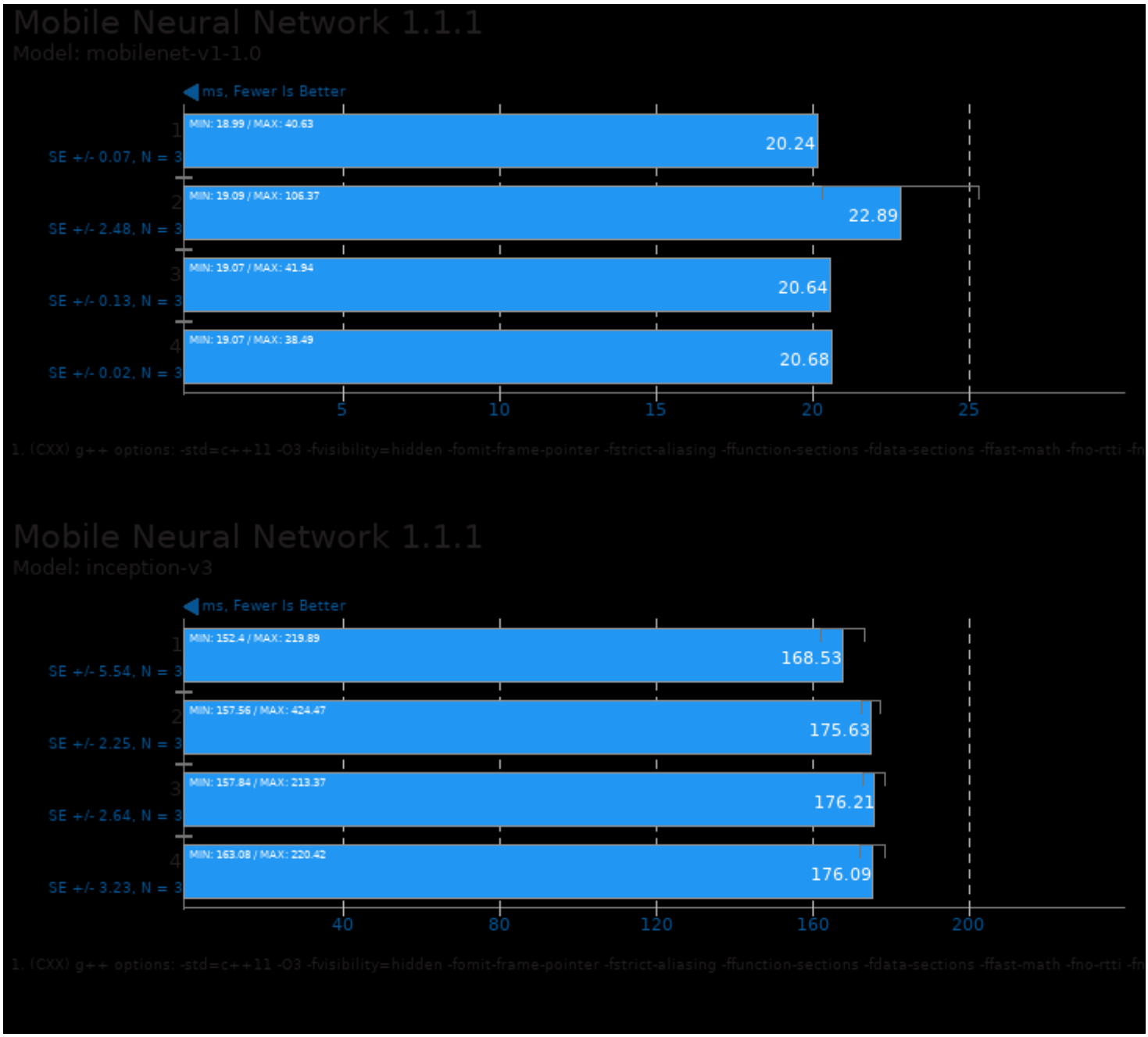


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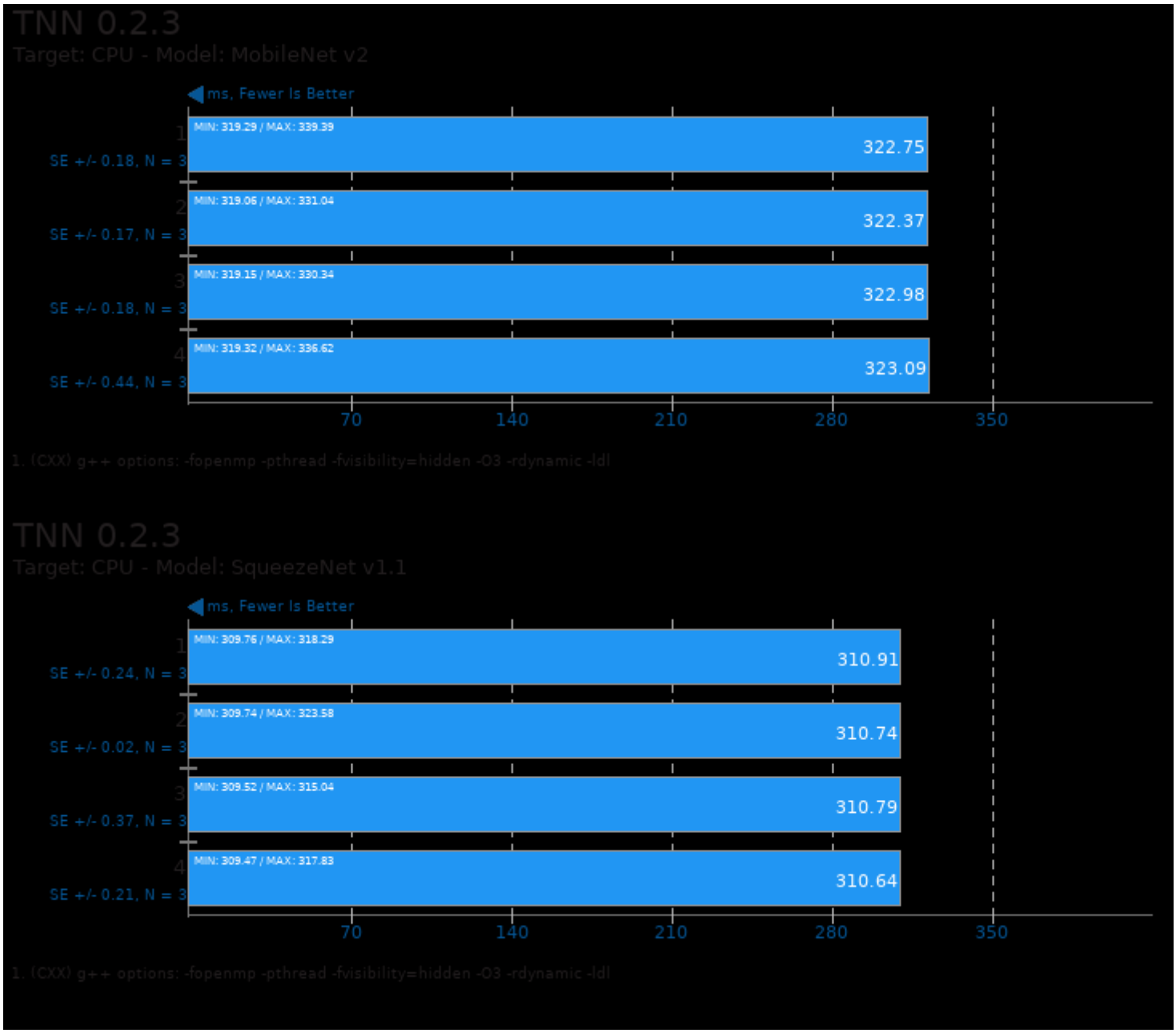



Mobile Neural Network 1.1.1
Model: resnet-v2-50
ms, Fewer Is Better
1
MIN: 109.47 / MAX: 175.67
136.27
SE +/- 1.55, N = 3
2
MIN: 111.53 / MAX: 394.31
132.35
SE +/- 9.37, N = 3
3
MIN: 112.05 / MAX: 159.13
130.41
SE +/- 8.13, N = 3
4
MIN: 133.73 / MAX: 175.58
139.79
SE +/- 0.91, N = 3
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fr
Mobile Neural Network 1.1.1
Model: MobileNetV2_224
ms, Fewer Is Better
1
MIN: 12.89 / MAX: 33.84
14.06
SE +/- 0.05, N = 3
2
MIN: 12.86 / MAX: 34.23
14.17
SE +/- 0.05, N = 3
3
MIN: 12.85 / MAX: 33.18
14.27
SE +/- 0.05, N = 3
4
MIN: 12.94 / MAX: 31.78
14.25
SE +/- 0.02, N = 3
4
8
12
16
20
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fr

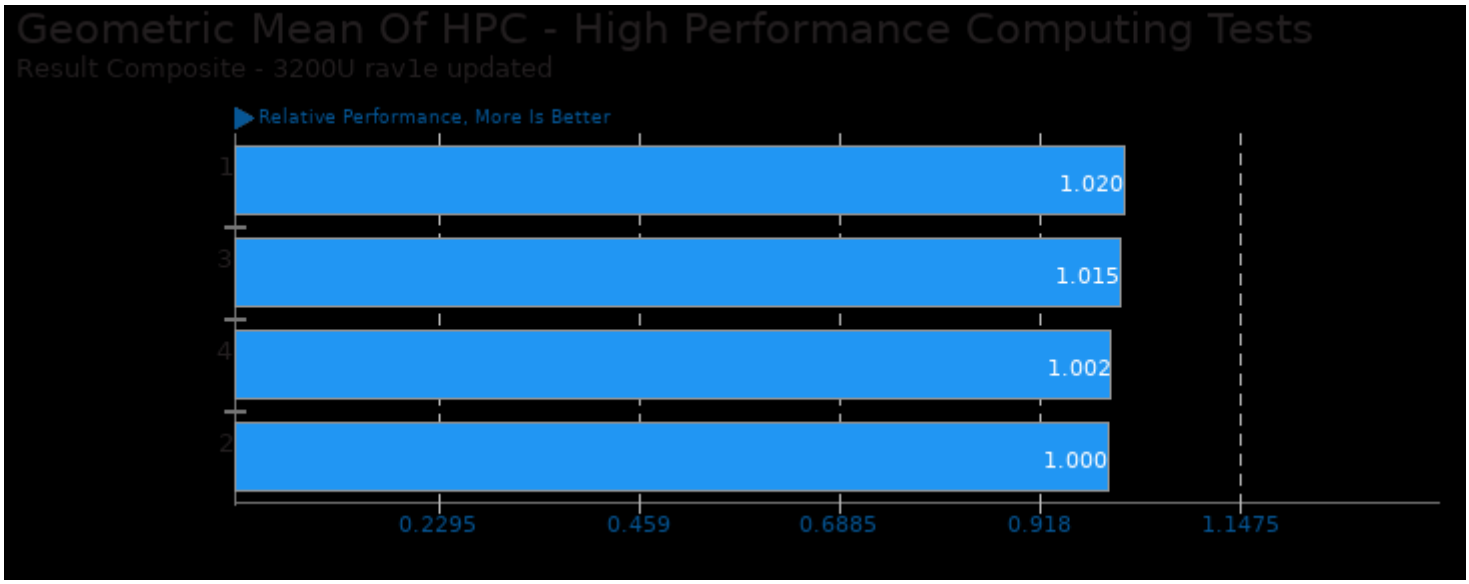
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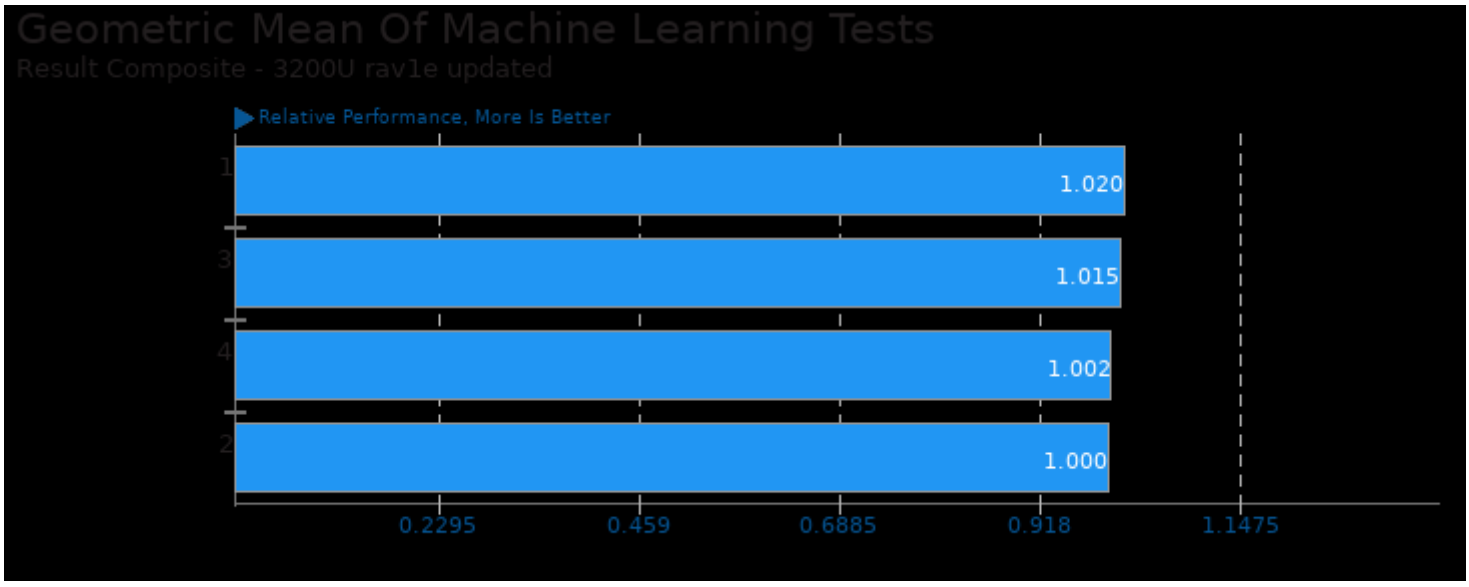
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These geometric means are based upon test groupings / test suites for this result file.



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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 07:20.