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3200U OpenVINO

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 66% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.004x the speed of the slowest (2). 3 was 0.998x the speed of 1 and 2 was 0.998x the speed of 3.

Test Systems:

1

2

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3

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

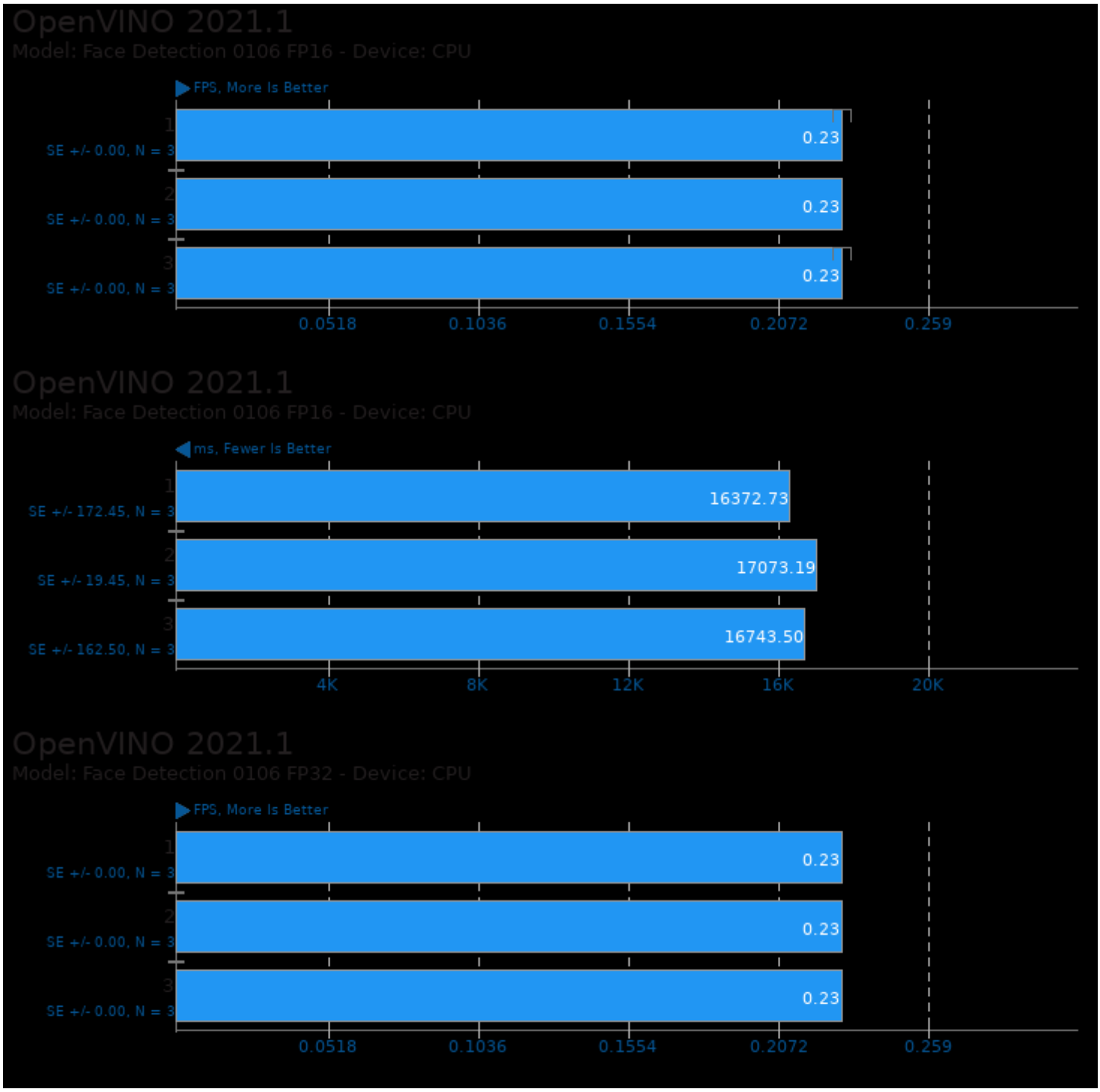
OS: Ubuntu 20.04, Kernel: 5.4.0-48-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: amdgpu 19.1.0, OpenGL: 4.6 Mesa 20.0.4 (LLVM 9.0.1), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

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,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 - CPU Microcode: 0x8108102
Python Notes: Python 3.8.2
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

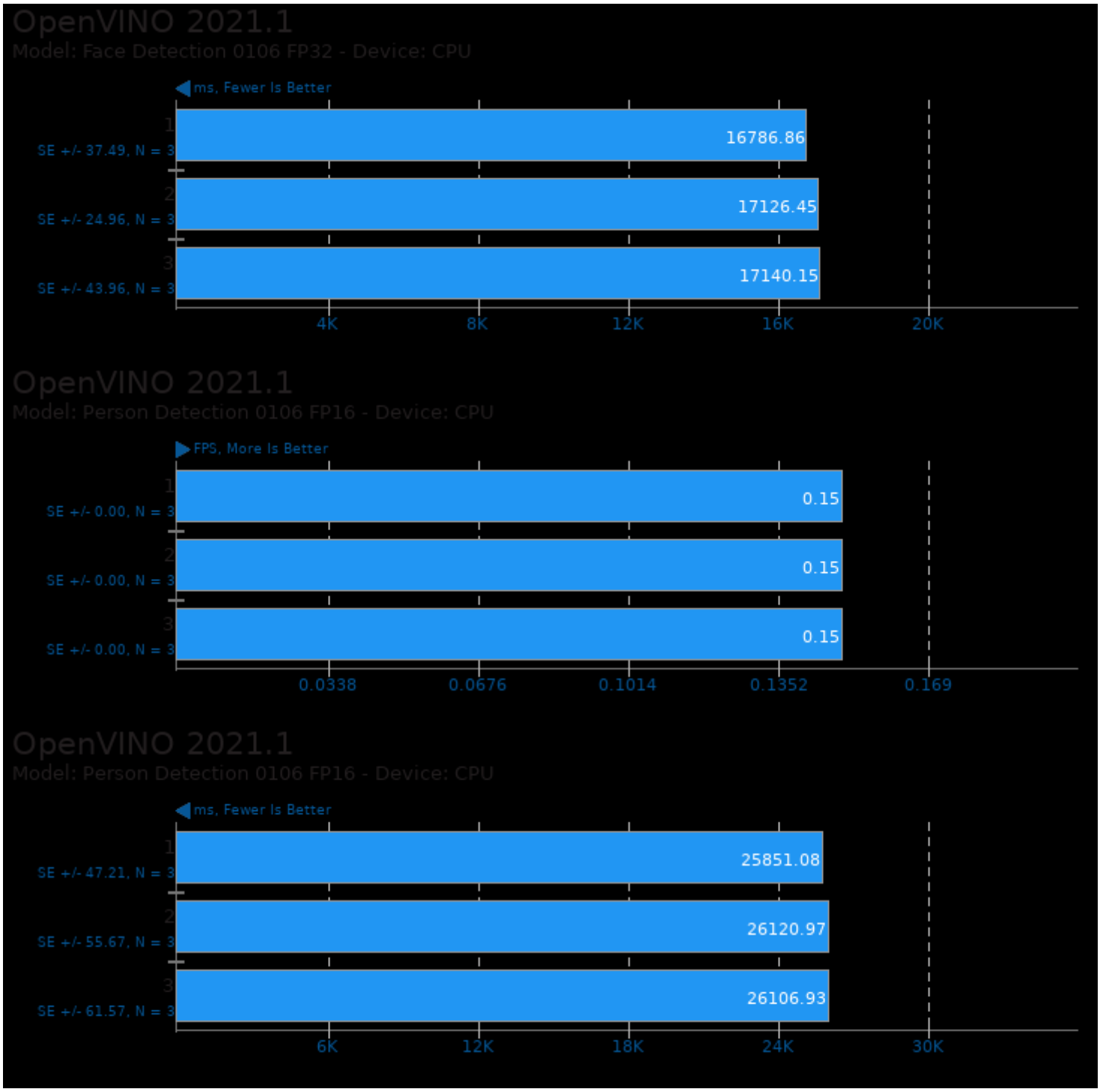
	1	2	3
OpenVINO - F.D.0.F - CPU (FPS)	0.23	0.23	0.23
Standard Deviation	2.5%	0%	2.5%
OpenVINO - F.D.0.F - CPU (ms)	**16373**	**17073**	16744
Normalized	100%	95.9%	97.79%
Standard Deviation	1.8%	0.2%	1.7%
OpenVINO - F.D.0.F - CPU (FPS)	0.23	0.23	0.23
Standard Deviation	0%	0%	0%
OpenVINO - F.D.0.F - CPU (ms)	**16787**	17126	**17140**
Normalized	100%	98.02%	97.94%
Standard Deviation	0.4%	0.3%	0.4%
OpenVINO - P.D.0.F - CPU (FPS)	0.15	0.15	0.15
Standard Deviation	0%	0%	0%
OpenVINO - P.D.0.F - CPU (ms)	**25851**	**26121**	26107
Normalized	100%	98.97%	99.02%
Standard Deviation	0.3%	0.4%	0.4%
OpenVINO - P.D.0.F - CPU (FPS)	0.15	0.15	0.15
Standard Deviation	3.8%	0%	0%
OpenVINO - P.D.0.F - CPU (ms)	**26469**	26357	**26333**
Normalized	99.48%	99.91%	100%
Standard Deviation	3.3%	0.2%	0.5%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	702.32	**702.98**	**701.02**
Normalized	99.91%	100%	99.72%
Standard Deviation	0.5%	0.6%	0.5%
OpenVINO - A.G.R.R.0.F - CPU (ms)	**5.62**	**5.62**	**5.63**
Normalized	100%	100%	99.82%
Standard Deviation	0.5%	0.5%	0.5%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	**691.48**	**694.68**	692.89
Normalized	99.54%	100%	99.74%
Standard Deviation	0.4%	0.8%	0.3%
OpenVINO - A.G.R.R.0.F - CPU (ms)	**5.71**	**5.69**	5.70

Normalized	99.65%	100%	99.82%
Standard Deviation	0.4%	0.7%	0.2%

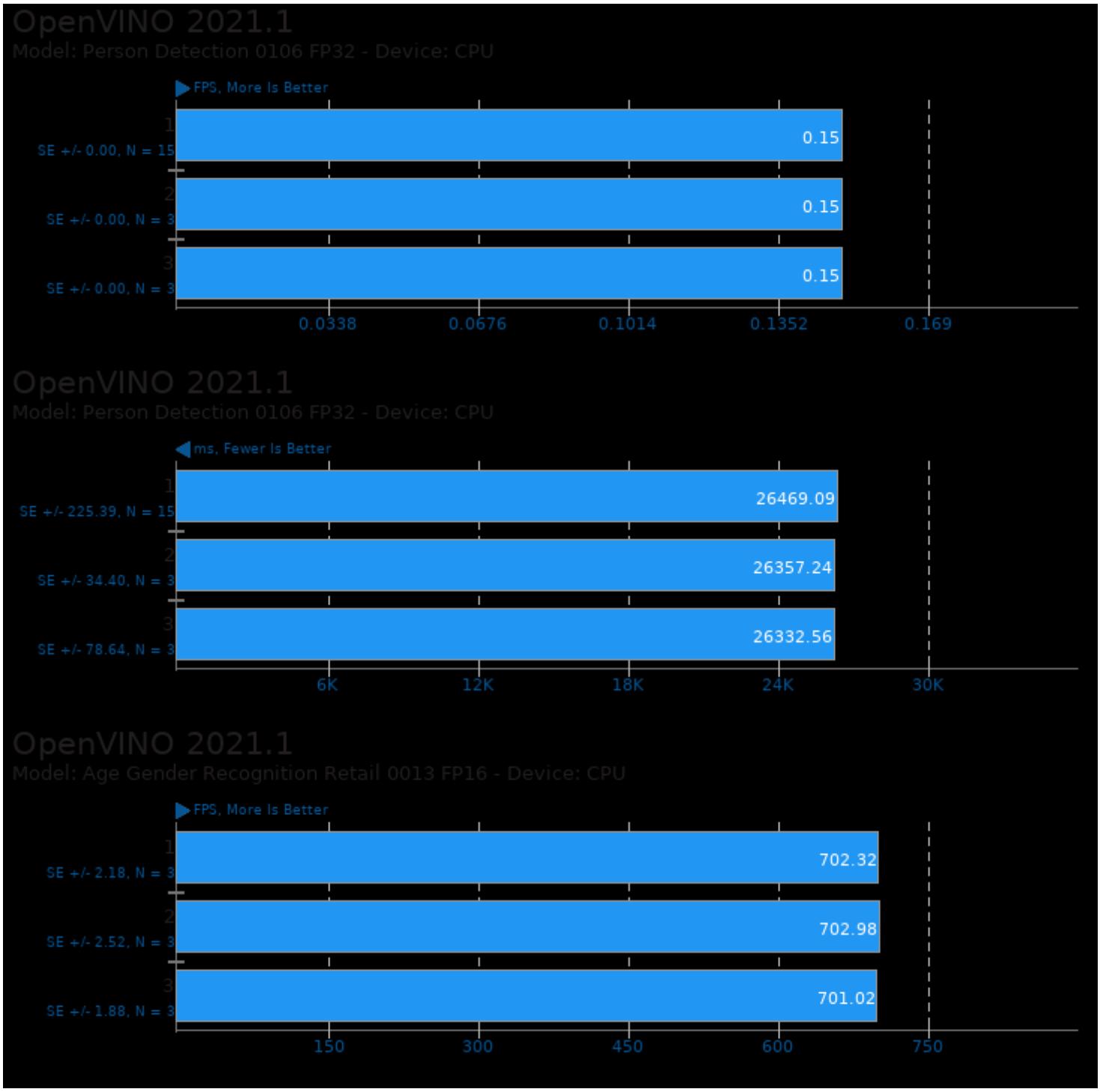
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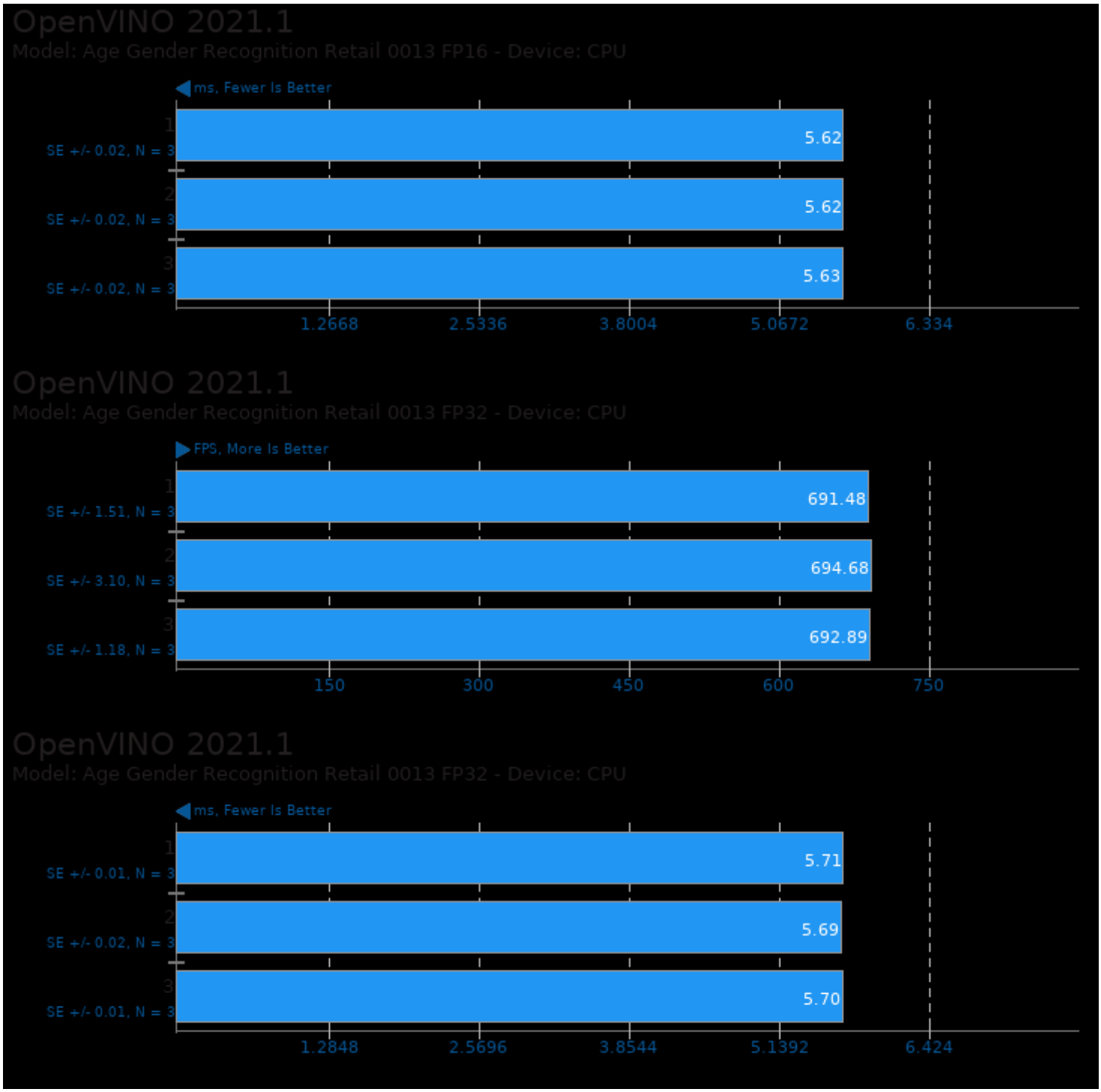
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