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openvino laptop

Intel Core i7-8550U testing with a Dell 0H0VG3 (1.10.0 BIOS) and Intel UHD 620 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

2 had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (2) was 1.006x the speed of the slowest (1). 3 was 0.999x the speed of 2 and 1 was 0.995x the speed of 3.

Test Systems:

1

2

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3

Processor: Intel Core i7-8550U @ 4.00GHz (4 Cores / 8 Threads), Motherboard: Dell 0H0VG3 (1.10.0 BIOS), Chipset: Intel Xeon E3-1200 v6/7th, Memory: 8GB, Disk: PM961 NVMe SAMSUNG 256GB, Graphics: Intel UHD 620 3GB (1150MHz), Audio: Realtek ALC3271, Network: Qualcomm Atheros QCA6174 802.11ac

OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc7daily20201004-generic (x86_64) 20201003, Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 4.6 Mesa 20.3.0-devel (git-961a8d7 2020-10-05 focal-oibaf-ppa), Vulkan: 1.2.145, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

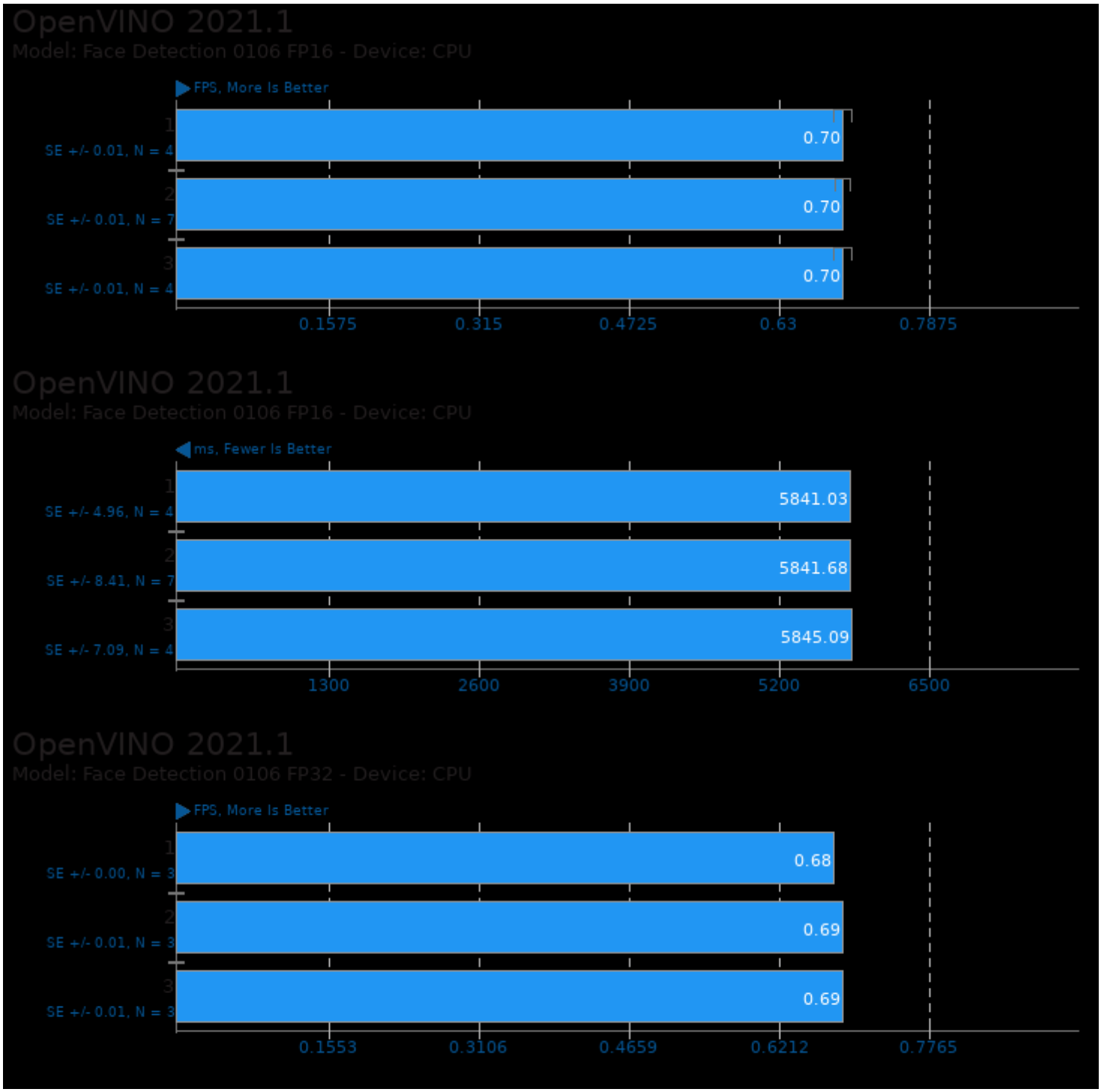
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --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: intel_pstate powersave - CPU Microcode: 0xd6
Python Notes: Python 3.8.2
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Not affected

	1	2	3
OpenVINO - F.D.0.F - CPU (FPS)	0.70	0.70	0.70
Standard Deviation	2.9%	2.9%	2.9%
OpenVINO - F.D.0.F - CPU (ms)	5841	5842	5845
Normalized	100%	99.99%	99.93%
Standard Deviation	0.2%	0.4%	0.2%
OpenVINO - F.D.0.F - CPU (FPS)	0.68	0.69	0.69
Normalized	98.55%	100%	100%
Standard Deviation	0.8%	1.7%	1.7%
OpenVINO - F.D.0.F - CPU (ms)	5934	5912	5909
Normalized	99.59%	99.95%	100%
Standard Deviation	0.1%	0.1%	0.1%
OpenVINO - P.D.0.F - CPU (FPS)	0.42	0.43	0.43
Normalized	97.67%	100%	100%
Standard Deviation	1.4%	1.4%	2.3%
OpenVINO - P.D.0.F - CPU (ms)	9307	9277	9305
Normalized	99.68%	100%	99.71%
Standard Deviation	0.2%	0.4%	1.2%
OpenVINO - P.D.0.F - CPU (FPS)	0.42	0.42	0.42
Standard Deviation	1.4%	1.4%	1.4%
OpenVINO - P.D.0.F - CPU (ms)	9416	9377	9398
Normalized	99.58%	100%	99.78%
Standard Deviation	1.2%	0.4%	0.2%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	1836	1845	1842
Normalized	99.53%	100%	99.86%
Standard Deviation	1.4%	1.9%	2%
OpenVINO - A.G.R.R.0.F - CPU (ms)	2.22	2.21	2.21
Normalized	99.55%	100%	100%
Standard Deviation	0.3%	0.3%	0.3%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	1804	1821	1821
Normalized	99.05%	100%	99.99%
Standard Deviation	1.4%	1.8%	1.7%

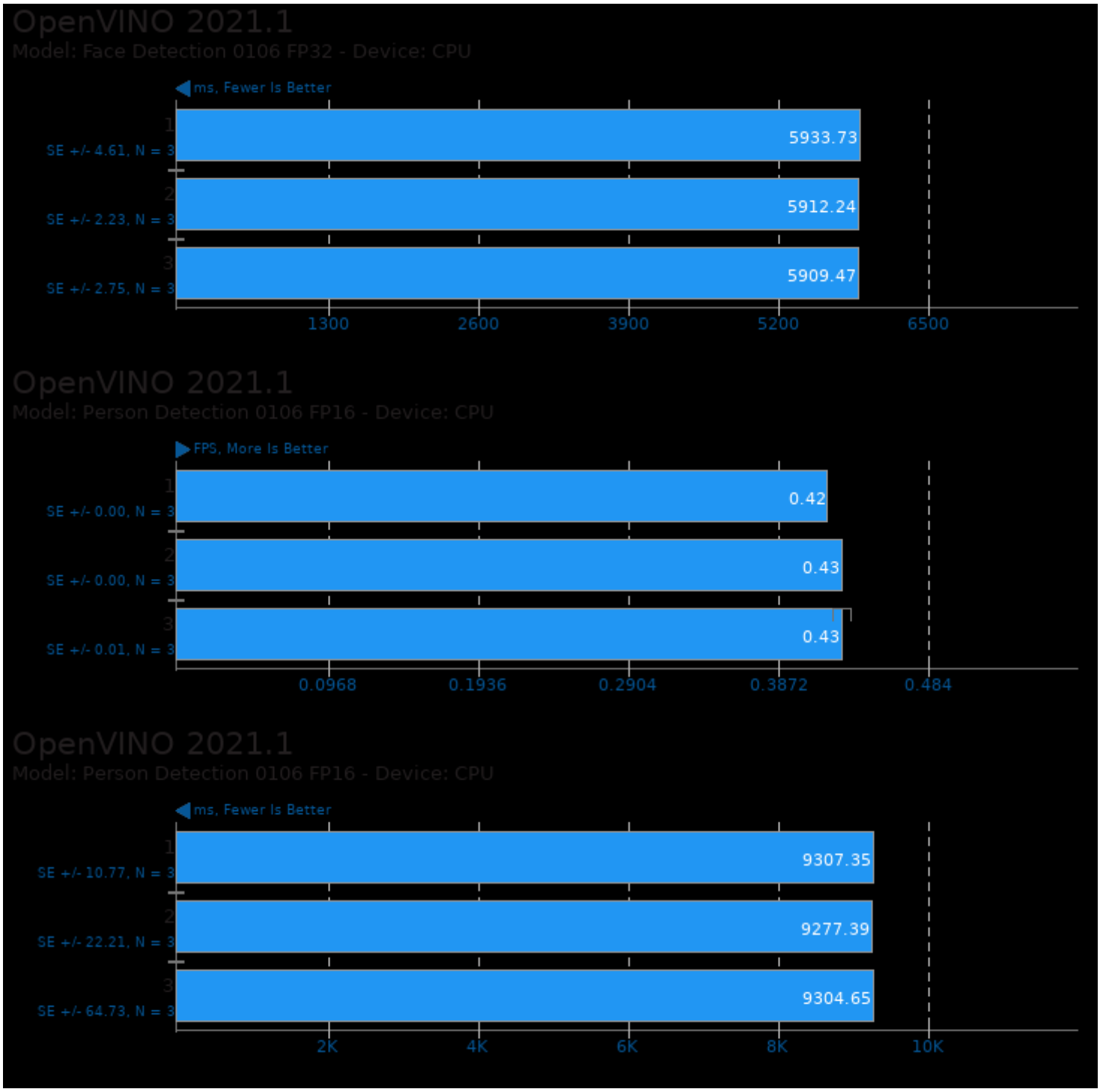
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OpenVINO - A.G.R.R.0.F - CPU (ms)	2.23	2.22	2.22
Normalized	99.55%	100%	100%
Standard Deviation	0.3%	0.3%	0.3%

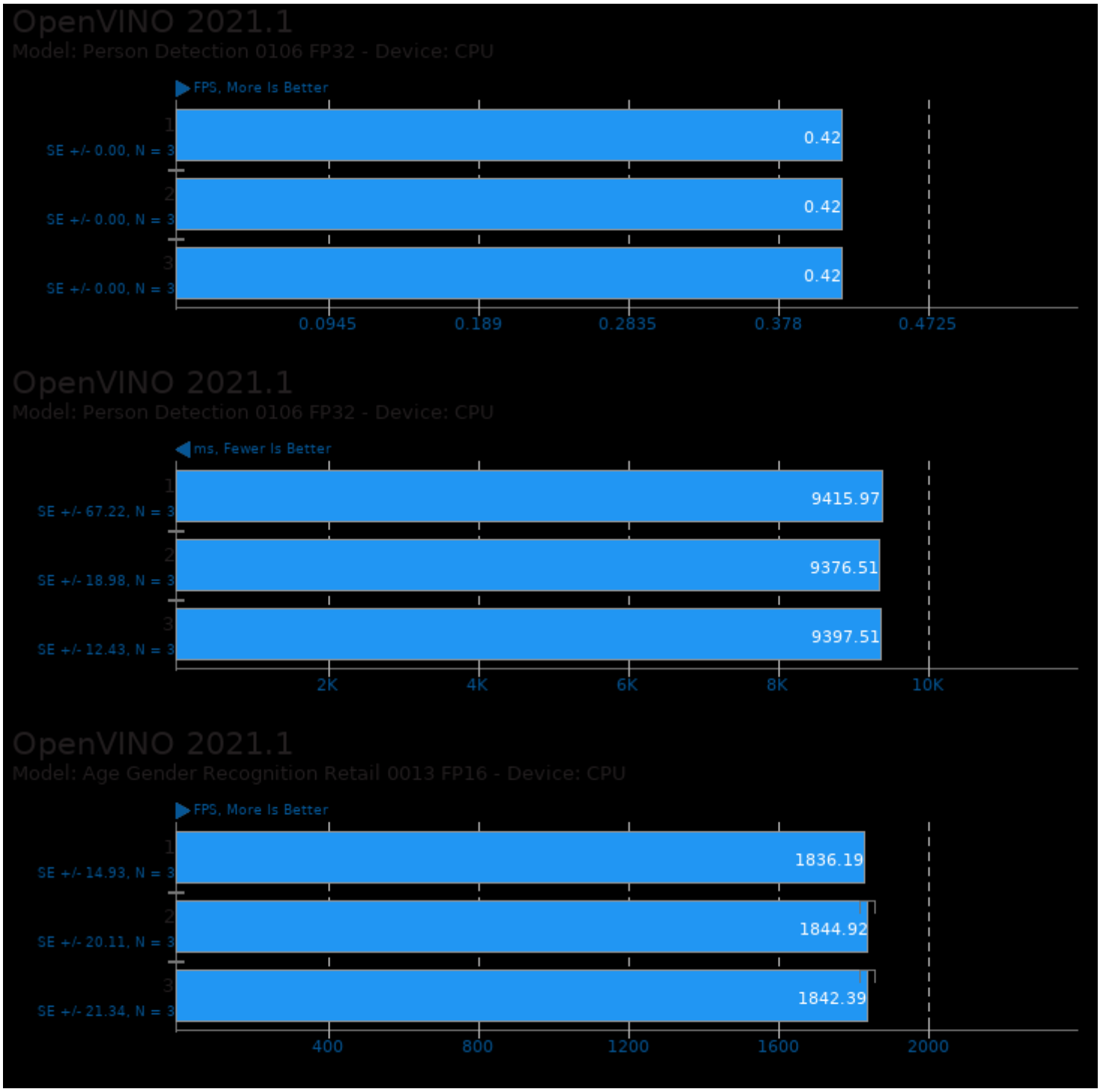
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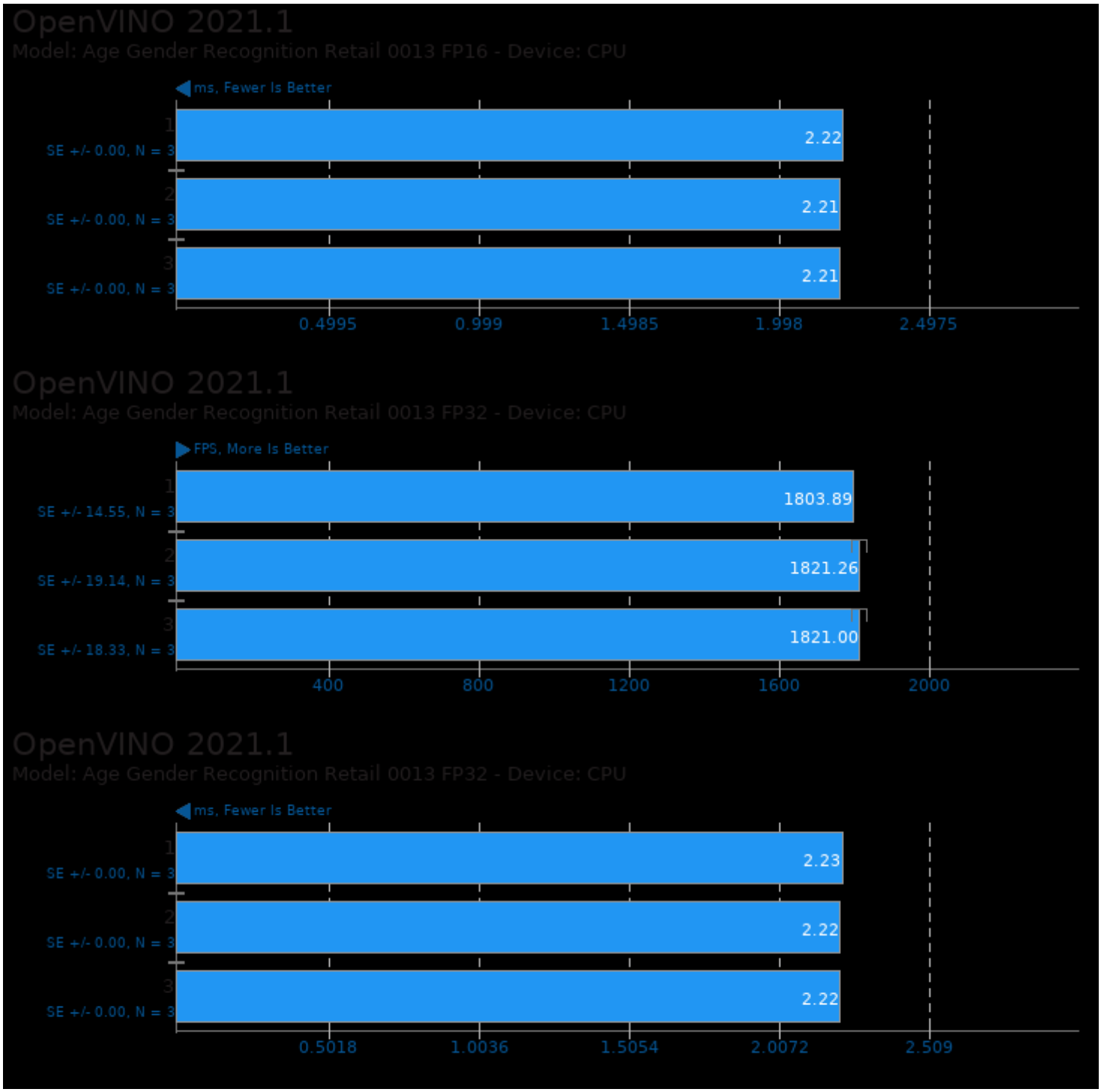
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