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10900K OpenVINO + Sunflow

Intel Core i9-10900K testing with a Gigabyte Z490 AORUS MASTER (F3 BIOS) and Gigabyte AMD Radeon RX 5500/5500M / Pro 5500M 8GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

2 had the most wins, coming in first place for 46% of the tests.

Based on the geometric mean of all complete results, the fastest (2) was 1.005x the speed of the slowest (1). 4 was 0.996x the speed of 2, 3 was 1x the speed of 4, 1 was 1x the speed of 3.

Test Systems:

1

2

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3

4

Processor: Intel Core i9-10900K @ 5.30GHz (10 Cores / 20 Threads), Motherboard: Gigabyte Z490 AORUS MASTER (F3 BIOS), Chipset: Intel Comet Lake PCH, Memory: 16GB, Disk: Samsung SSD 970 EVO 250GB + 16GB Corsair Voyager 3.0, Graphics: Gigabyte AMD Radeon RX 5500/5500M / Pro 5500M 8GB (1900/875MHz), Audio: Realtek ALC1220, Monitor: ASUS MG28U, Network: Intel Device 15f3 + Intel Wi-Fi 6 AX201

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: modesetting 1.20.8, OpenGL: 4.6 Mesa 20.0.8 (LLVM 10.0.0), Vulkan: 1.2.128, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

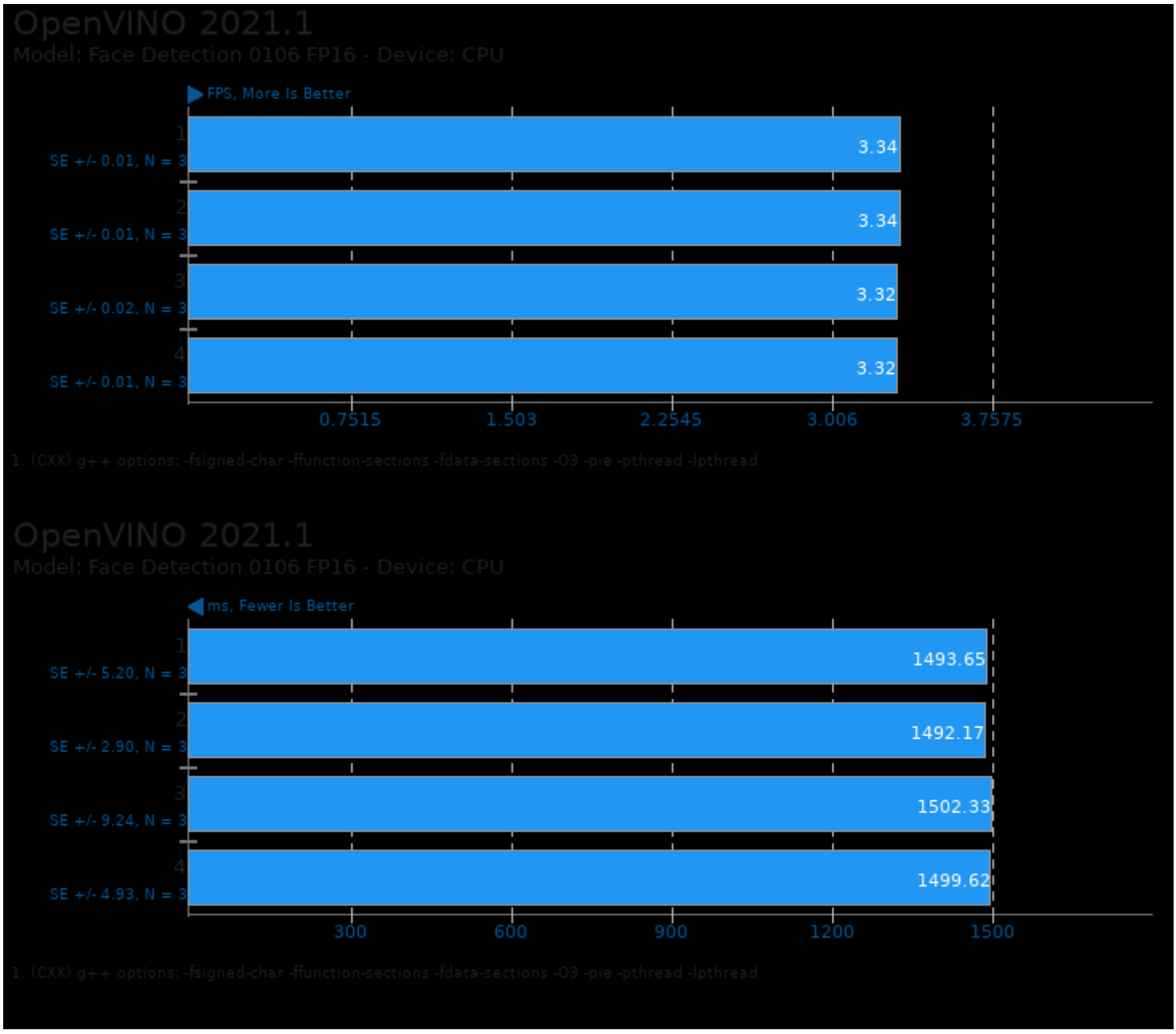
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --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: intel_pstate powersave - CPU Microcode: 0xc8
Java Notes: OpenJDK Runtime Environment (build 11.0.8+10-post-Ubuntu-0ubuntu120.04)
Python Notes: Python 2.7.18 + Python 3.8.5
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + 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: Not affected

	1	2	3	4
OpenVINO - F.D.0.F - CPU (FPS)	**3.34**	**3.34**	**3.32**	**3.32**
Normalized	100%	100%	99.4%	99.4%
Standard Deviation	0.5%	0.3%	0.8%	0.5%
OpenVINO - F.D.0.F - CPU (ms)	1494	**1492**	**1502**	1500
Normalized	99.9%	100%	99.32%	99.5%
Standard Deviation	0.6%	0.3%	1.1%	0.6%
OpenVINO - F.D.0.F - CPU (FPS)	**3.33**	**3.32**	**3.32**	**3.33**
Normalized	100%	99.7%	99.7%	100%
Standard Deviation	0.3%	0.5%	0.2%	0.5%
OpenVINO - F.D.0.F - CPU (ms)	1495	1492	**1502**	**1490**
Normalized	99.7%	99.88%	99.22%	100%
Standard Deviation	0.1%	0.3%	0.2%	0.2%
OpenVINO - P.D.0.F - CPU (FPS)	**1.89**	**1.92**	1.90	1.90
Normalized	98.44%	100%	98.96%	98.96%
Standard Deviation	0.6%	0.5%	1.1%	0.8%
OpenVINO - P.D.0.F - CPU (ms)	**2627**	**2587**	2605	2618
Normalized	98.48%	100%	99.31%	98.8%
Standard Deviation	0.3%	0.5%	0.4%	0.9%
OpenVINO - P.D.0.F - CPU (FPS)	**1.90**	**1.91**	**1.91**	**1.90**
Normalized	99.48%	100%	100%	99.48%
Standard Deviation	0.5%	0.8%	0.3%	0.3%
OpenVINO - P.D.0.F - CPU (ms)	2613	**2599**	2609	**2617**
Normalized	99.48%	100%	99.6%	99.3%
Standard Deviation	0.2%	0.2%	0.3%	0.3%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	**9843**	9897	9914	**9946**
Normalized	98.97%	99.5%	99.67%	100%
Standard Deviation	0.8%	0.8%	1.1%	0.7%

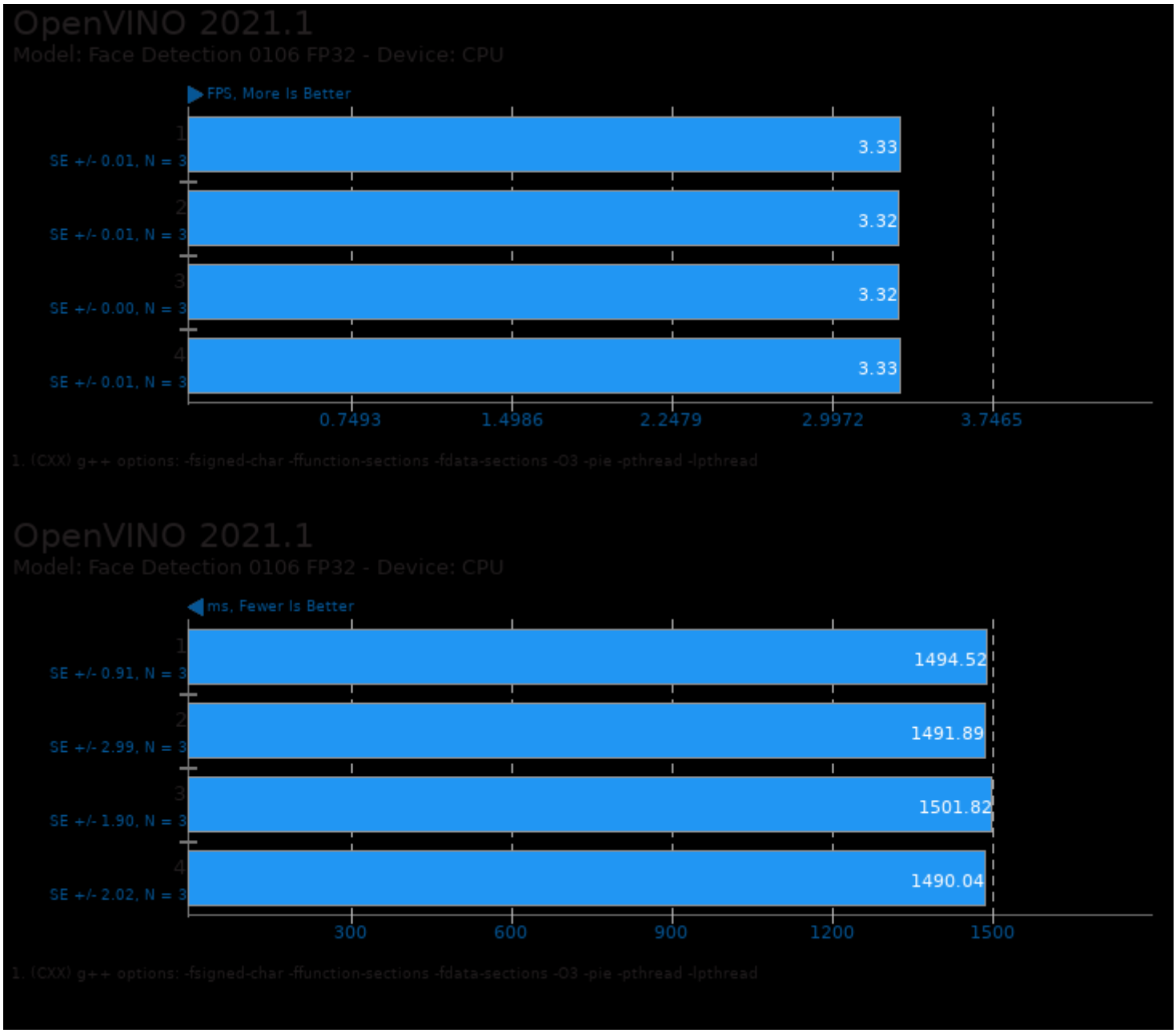
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OpenVINO - A.G.R.R.0.F - CPU (ms)	0.49	0.49	0.49	0.49
Standard Deviation	0%	0%	0%	0%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	9795	9840	**9792**	**9845**
Normalized	99.49%	99.95%	99.46%	100%
Standard Deviation	0.7%	0.7%	0.6%	1.2%
OpenVINO - A.G.R.R.0.F - CPU (ms)	0.49	0.49	0.49	0.49
Standard Deviation	1.2%	1.2%	1.2%	1.2%
Sunflow Rendering System - G.I.I.S (sec)	0.784	**0.776**	0.787	**0.789**
Normalized	98.98%	100%	98.6%	98.35%
Standard Deviation	1%	2.2%	2.6%	1.9%

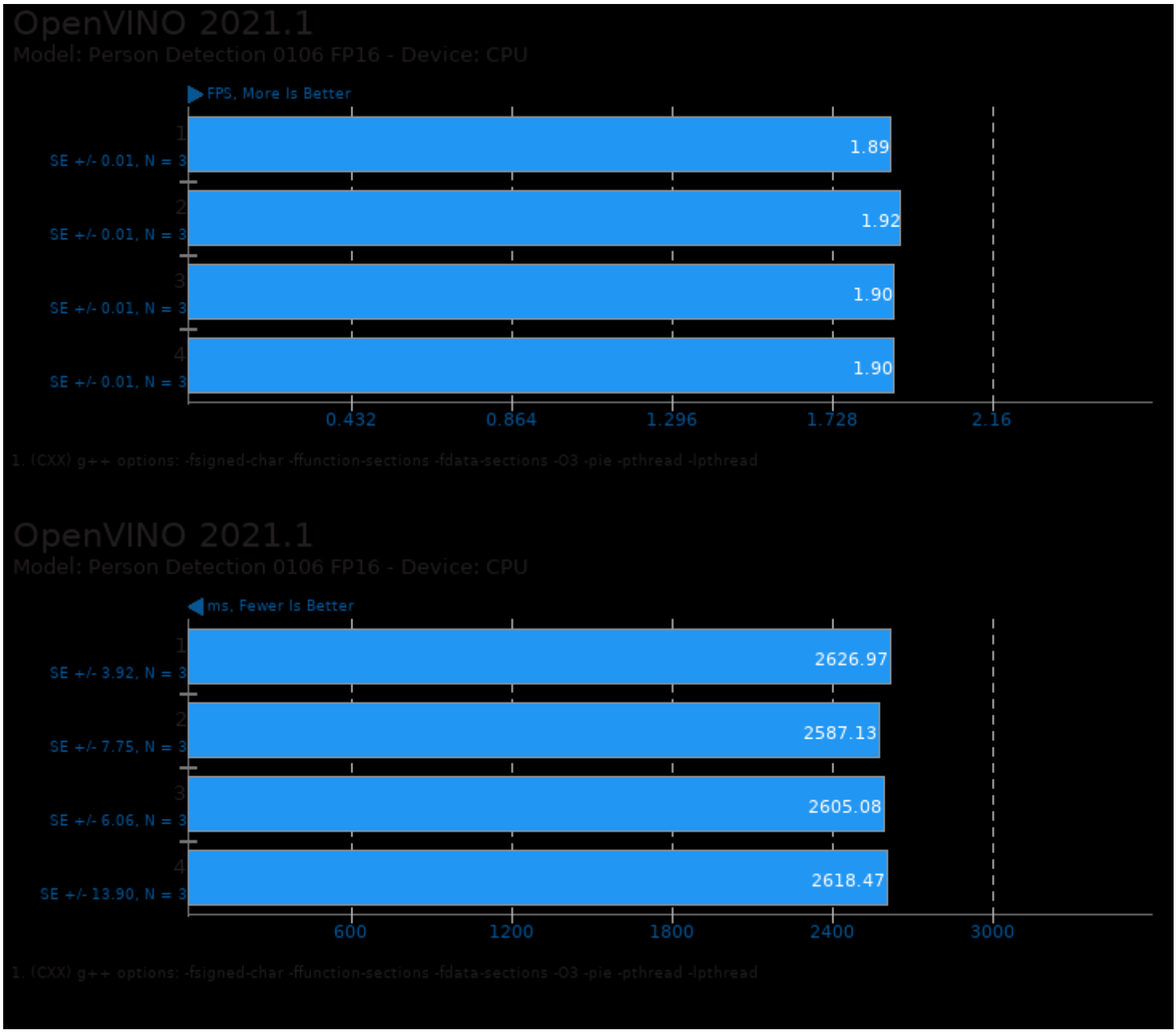
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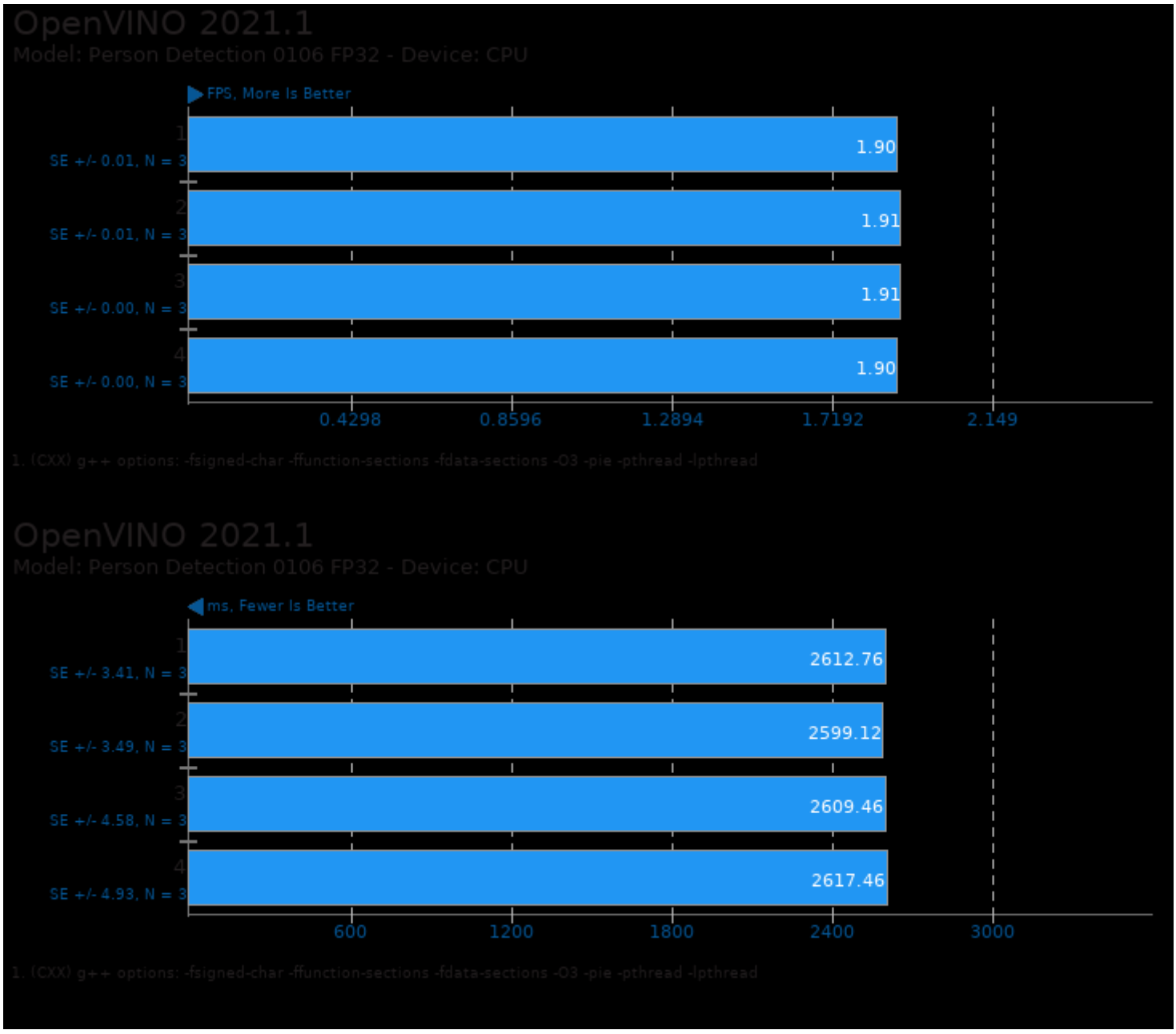
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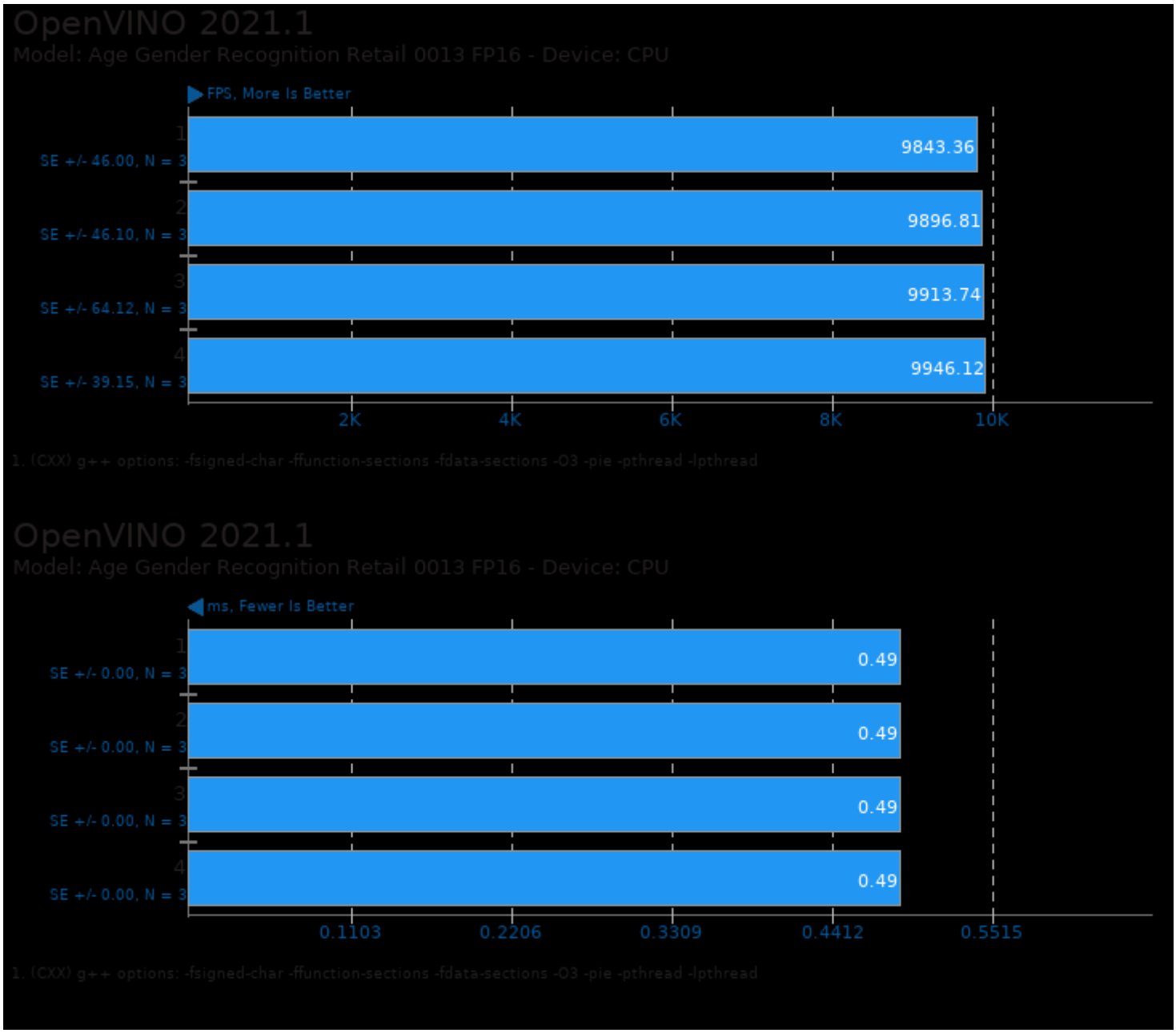
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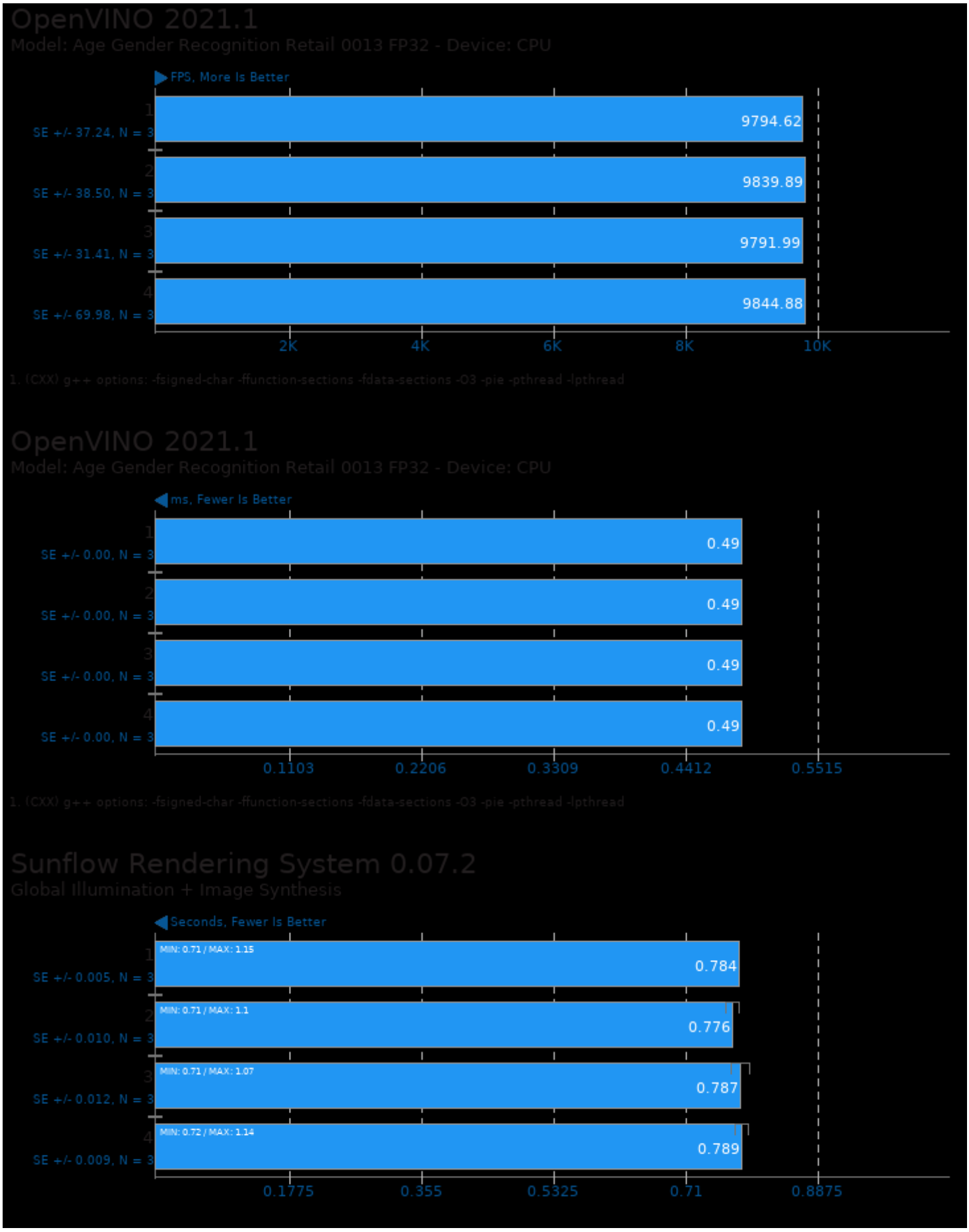
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