

www.phoronix-test-suite.com

OpenVINO 7980XE

Intel Core i9-7980XE testing with a ASUS PRIME X299-A (2002 BIOS) and Gigabyte AMD Radeon 540/540X/550/550X / RX 540X/550/550X 2GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

w had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.003x the speed of the slowest (1). w was 0.999x the speed of 3 and 1 was 0.999x the speed of w.

Test Systems:

1

w

OpenVINO 7980XE

3

Processor: Intel Core i9-7980XE @ 4.20GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A (2002 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: Gigabyte AMD Radeon 540/540X/550/550X / RX 540X/550/550X 2GB (1206/1750MHz), Audio: Realtek ALC1220, Monitor: G237HL, Network: Intel I219-V

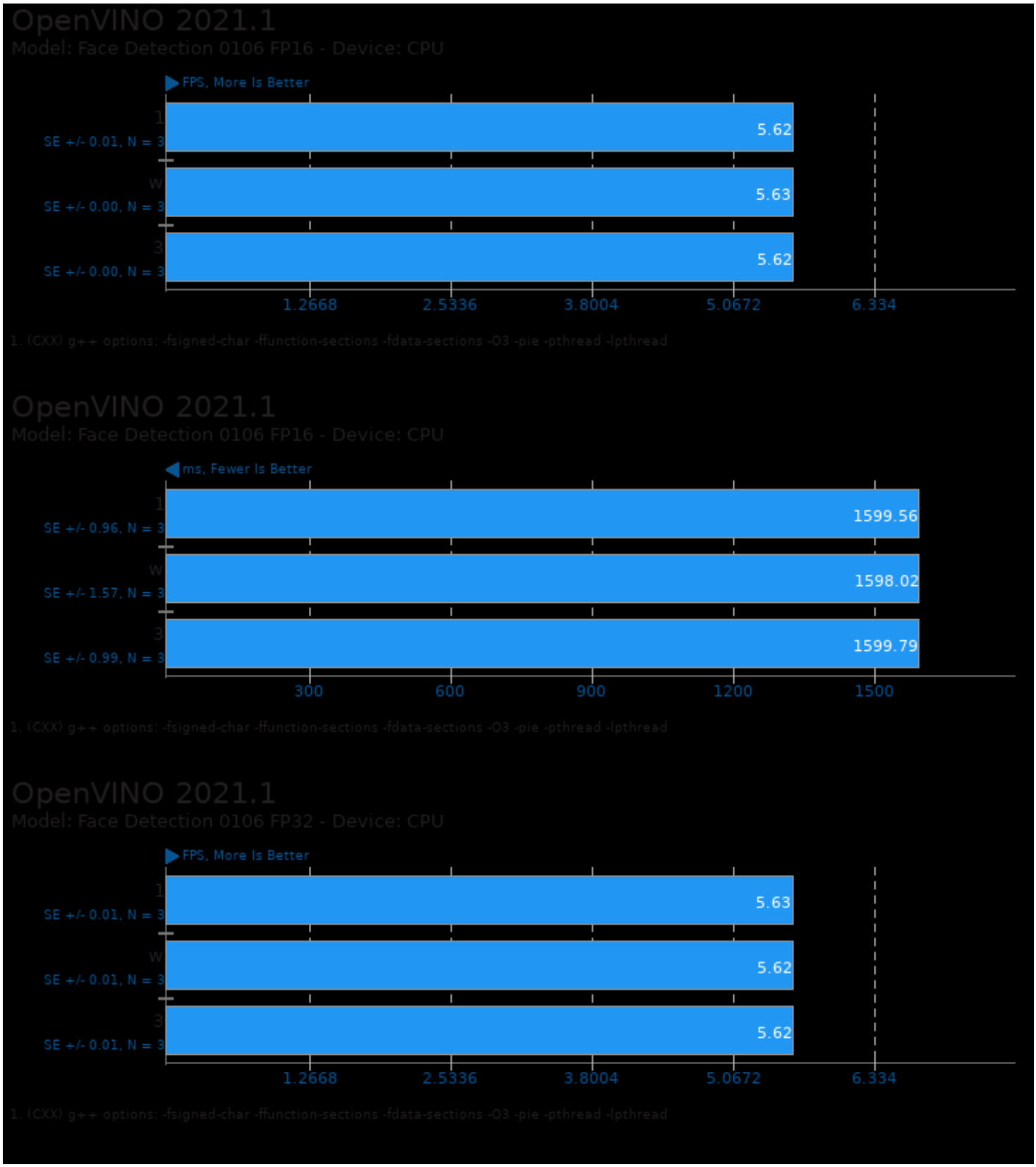
OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc8daily20201007-generic (x86_64) 20201006, Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 4.6 Mesa 20.0.4 (LLVM 9.0.1), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

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: intel_pstate powersave - CPU Microcode: 0x2006906
Python Notes: Python 2.7.18 + 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: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

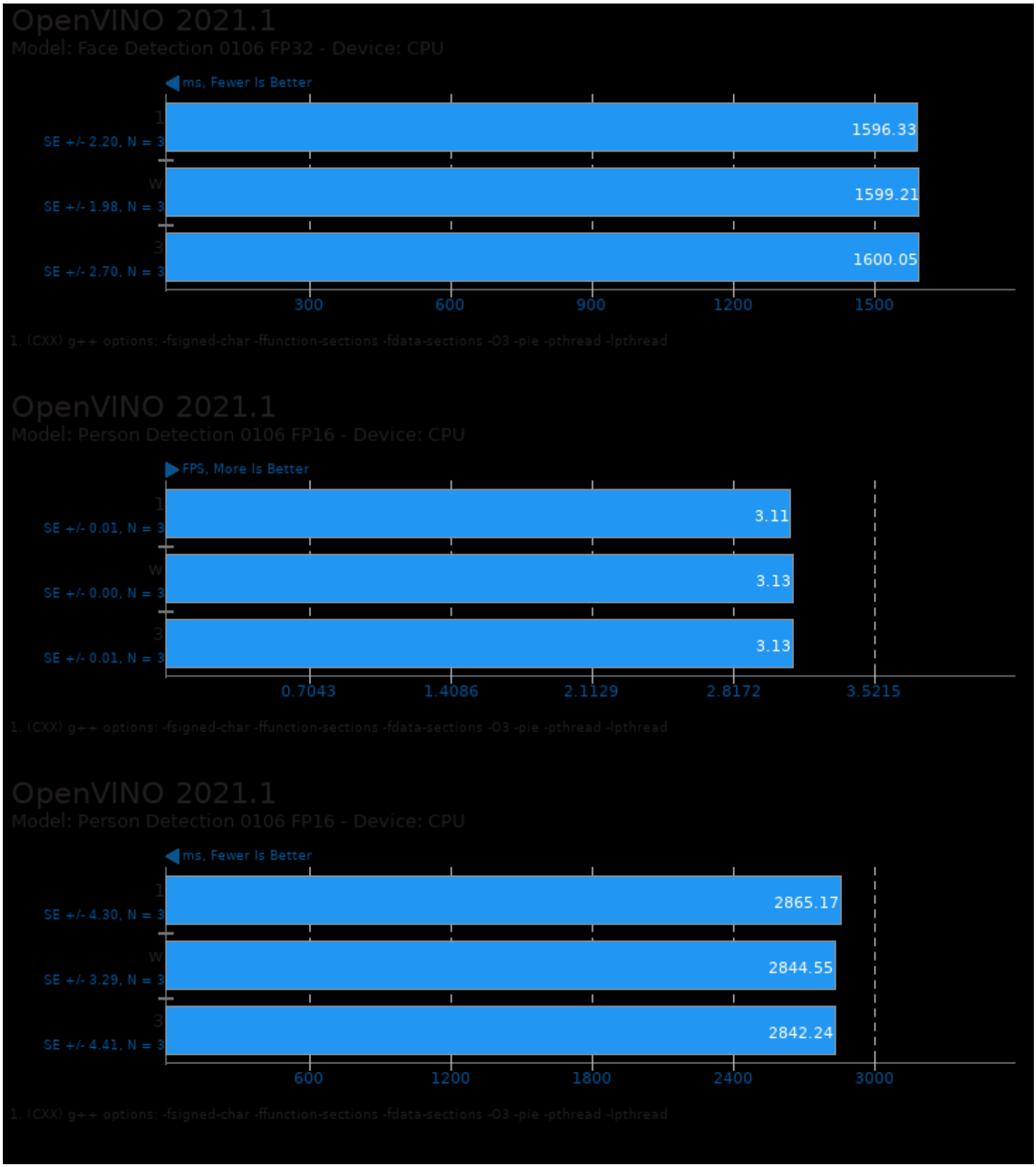
	1	w	3
OpenVINO - F.D.0.F - CPU (FPS)	**5.62**	**5.63**	**5.62**
Normalized	99.82%	100%	99.82%
Standard Deviation	0.2%	0.1%	0.1%
OpenVINO - F.D.0.F - CPU (ms)	1600	**1598**	**1600**
Normalized	99.9%	100%	99.89%
Standard Deviation	0.1%	0.2%	0.1%
OpenVINO - F.D.0.F - CPU (FPS)	**5.63**	**5.62**	**5.62**
Normalized	100%	99.82%	99.82%
Standard Deviation	0.2%	0.2%	0.4%
OpenVINO - F.D.0.F - CPU (ms)	**1596**	1599	**1600**
Normalized	100%	99.82%	99.77%
Standard Deviation	0.2%	0.2%	0.3%
OpenVINO - P.D.0.F - CPU (FPS)	**3.11**	**3.13**	**3.13**
Normalized	99.36%	100%	100%
Standard Deviation	0.7%	0%	0.4%
OpenVINO - P.D.0.F - CPU (ms)	**2865**	2845	**2842**
Normalized	99.2%	99.92%	100%
Standard Deviation	0.3%	0.2%	0.3%
OpenVINO - P.D.0.F - CPU (FPS)	**3.11**	**3.12**	**3.12**
Normalized	99.68%	100%	100%
Standard Deviation	0.7%	0.2%	0.3%
OpenVINO - P.D.0.F - CPU (ms)	**2857**	**2849**	2856
Normalized	99.71%	100%	99.75%
Standard Deviation	0.7%	0.5%	0.4%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	15842	**15824**	**15853**
Normalized	99.93%	99.82%	100%
Standard Deviation	0.1%	0.2%	0.2%
OpenVINO - A.G.R.R.0.F - CPU (ms)	**0.54**	**0.55**	**0.54**
Normalized	100%	98.18%	100%
Standard Deviation	1.1%	1.1%	1.1%

OpenVINO 7980XE

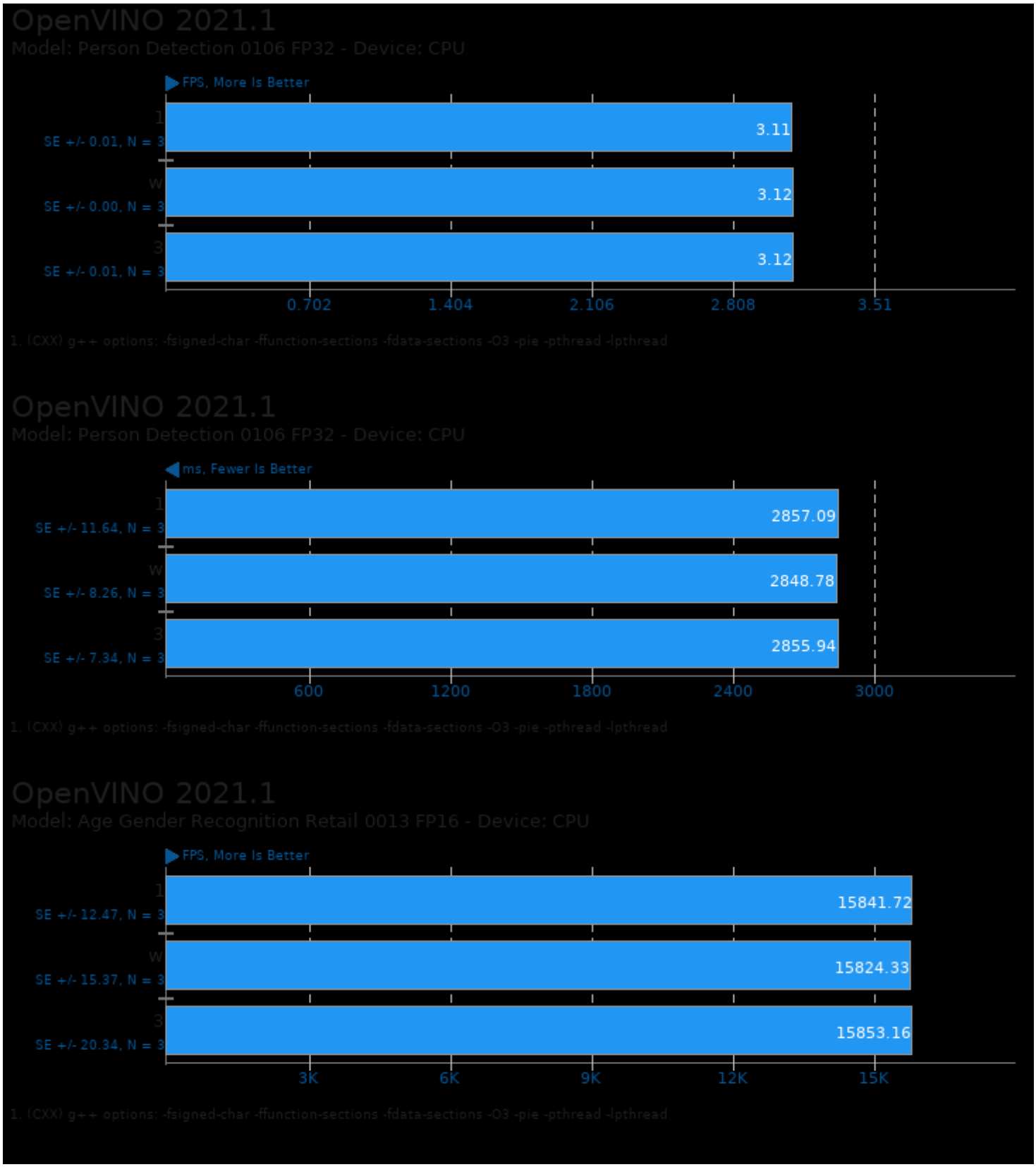
OpenVINO - A.G.R.R.0.F - CPU (FPS)	**15834**	15844	**15865**
Normalized	99.81%	99.87%	100%
Standard Deviation	0.2%	0.3%	0.1%
OpenVINO - A.G.R.R.0.F - CPU (ms)	**0.55**	**0.54**	**0.54**
Normalized	98.18%	100%	100%
Standard Deviation	1.1%	1.1%	0%


OpenVINO 2021.1
Model: Face Detection 0106 FP16 - Device: CPU
FPS, More Is Better
1
SE +/- 0.01, N = 3
5.62
W
SE +/- 0.00, N = 3
5.63
3
SE +/- 0.00, N = 3
5.62
1.2668
2.5336
3.8004
5.0672
6.334
1. (CXX) g++ options: -fsigned-char -ffunction-sections -fdata-sections -O3 -pie -pthread -lpthread
OpenVINO 2021.1
Model: Face Detection 0106 FP16 - Device: CPU
ms, Fewer Is Better
1
SE +/- 0.96, N = 3
1599.56
W
SE +/- 1.57, N = 3
1598.02
3
SE +/- 0.99, N = 3
1599.79
300
600
900
1200
1500
1. (CXX) g++ options: -fsigned-char -ffunction-sections -fdata-sections -O3 -pie -pthread -lpthread
OpenVINO 2021.1
Model: Face Detection 0106 FP32 - Device: CPU
FPS, More Is Better
1
SE +/- 0.01, N = 3
5.63
W
SE +/- 0.01, N = 3
5.62
3
SE +/- 0.01, N = 3
5.62
1.2668
2.5336
3.8004
5.0672
6.334
1. (CXX) g++ options: -fsigned-char -ffunction-sections -fdata-sections -O3 -pie -pthread -lpthread

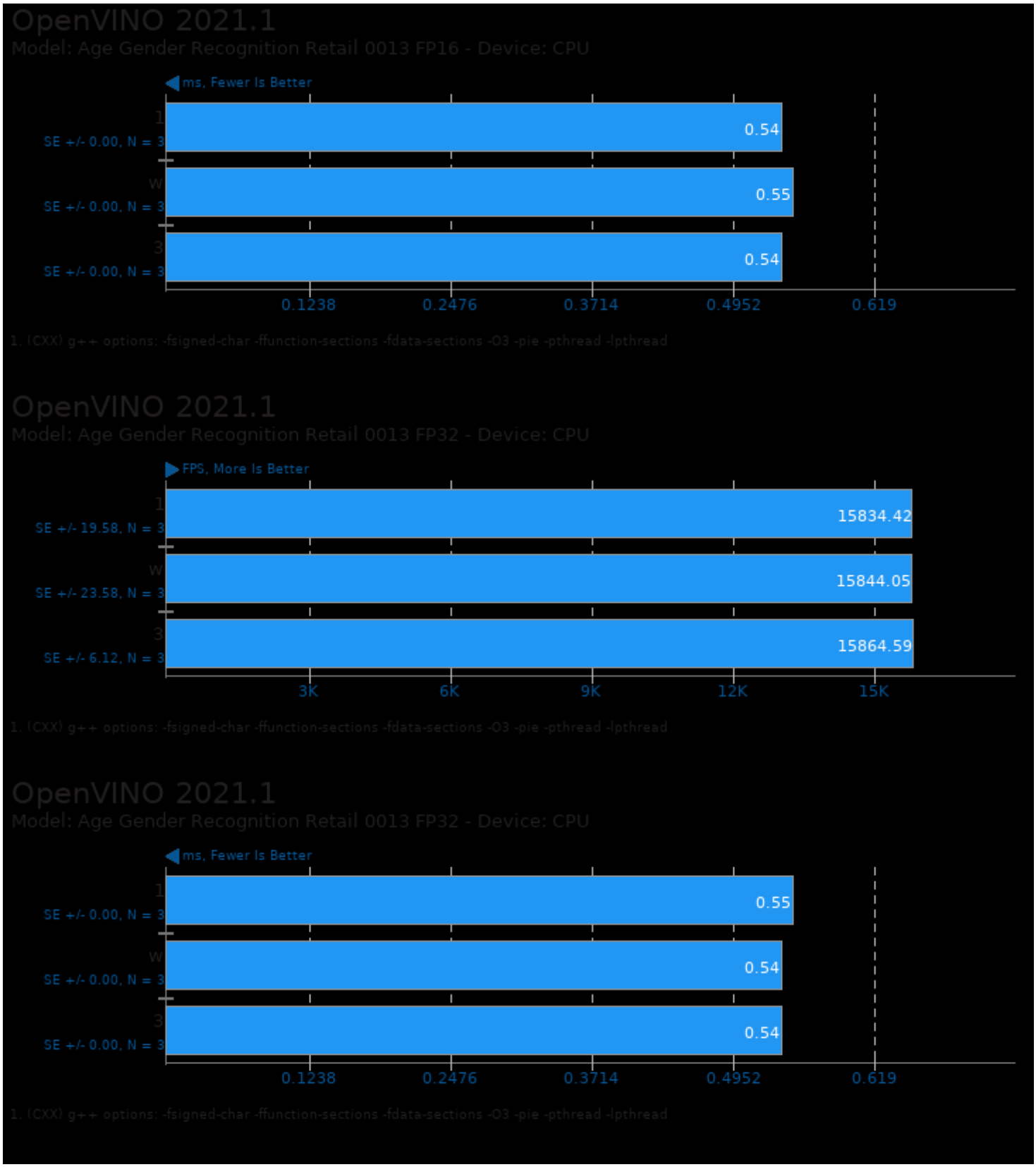
OpenVINO 7980XE



OpenVINO 7980XE



OpenVINO 7980XE



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:36.