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7600x-av1

AMD Ryzen 5 7600X 6-Core testing with a ASUS PRIME B650M-A AX (0821 BIOS) and Intel DG2 [Arc A380] 512MB on Debian via the Phoronix Test Suite.

Test Systems:

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Processor: AMD Ryzen 5 7600X 6-Core @ 5.45GHz (6 Cores / 12 Threads), Motherboard: ASUS PRIME B650M-A AX (0821 BIOS), Chipset: AMD Device 14d8, Memory: 16GB, Disk: 1000GB SHGP31-1000GM + 1000GB Seagate ST1000LM035-1RK1 + 512GB Crucial CT512MX1 + 8002GB Seagate ST8000DM004-2CX1, Graphics: Intel DG2 [Arc A380] 512MB (2200/2600MHz), Audio: Intel Device 4f92, Monitor: DELL U2719D, Network: Realtek RTL8125 2.5GbE + Realtek Device b852

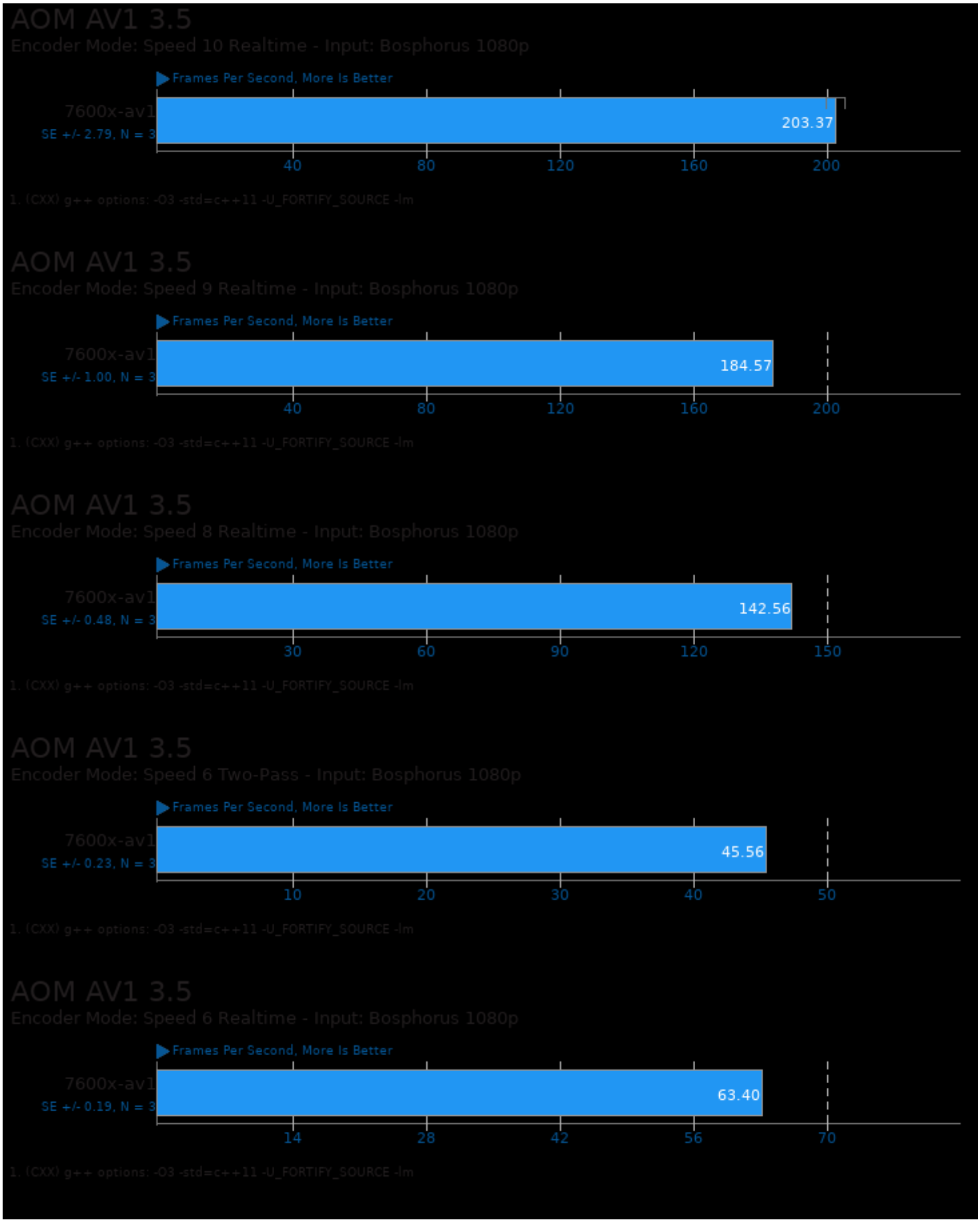
OS: Debian, Kernel: 6.0.0-5-amd64 (x86_64), Desktop: KDE Plasma 5.26.4, Display Server: X Server 1.21.1.4, OpenGL: 4.6 Mesa 22.2.4 (LLVM 15.0.5 DRM 3.48), OpenCL: OpenCL 1.1 Mesa 22.2.4 + OpenCL 3.0 + OpenCL 2.0 beignet 1.3, Vulkan: 1.3.224, Compiler: GCC 12.2.0 + Clang 14.0.6 + LLVM 14.0.6 + CUDA 11.3, File-System: ext4, Screen Resolution: 2560x1440

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Kernel Notes: hid_apple.fnmode=0 - Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-defaulted --enable-offload-targets=nvptx-none=/build/gcc-12-lH3g9c/gcc-12-12.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-12-lH3g9c/gcc-12-12.2.0/debian/tmp-gcn/usr --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: amd-pstate schedutil (Boost: Enabled) - CPU Microcode: 0xa601203
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

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AOM AV1 - Speed 10 Realtime - Bosphorus 1080p (FPS)	203.37
Standard Deviation	2.4%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)	184.57
Standard Deviation	0.9%
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)	142.56
Standard Deviation	0.6%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)	45.56
Standard Deviation	0.9%
AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)	63.40
Standard Deviation	0.5%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)	16.54
Standard Deviation	0.2%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 1080p (FPS)	0.66
Standard Deviation	0.9%
AOM AV1 - Speed 10 Realtime - Bosphorus 4K (FPS)	67.50
Standard Deviation	0.1%
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	65.47
Standard Deviation	0.1%
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	45.52
Standard Deviation	0.4%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	12.43
Standard Deviation	0.4%
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	32.74
Standard Deviation	0.1%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	7.00
Standard Deviation	0.2%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 4K (FPS)	0.2
Standard Deviation	0%

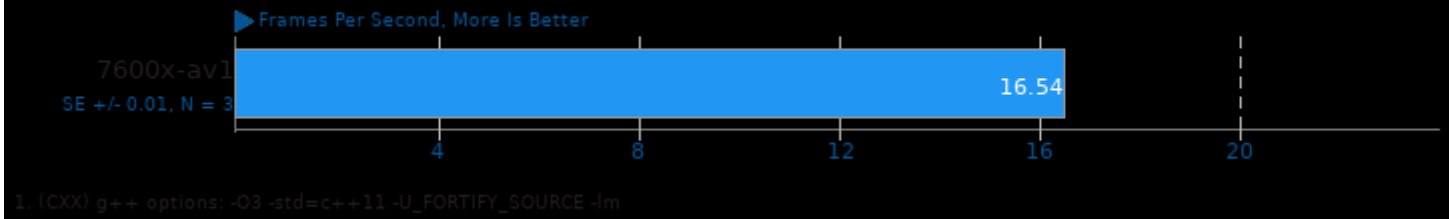
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AOM AV1 3.5
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
7600x-av1
SE +/- 2.79, N = 3
203.37
40
80
120
160
200
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.5
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
7600x-av1
SE +/- 1.00, N = 3
184.57
40
80
120
160
200
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.5
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
7600x-av1
SE +/- 0.48, N = 3
142.56
30
60
90
120
150
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.5
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
7600x-av1
SE +/- 0.23, N = 3
45.56
10
20
30
40
50
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.5
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
7600x-av1
SE +/- 0.19, N = 3
63.40
14
28
42
56
70
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

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AOM AV1 3.5

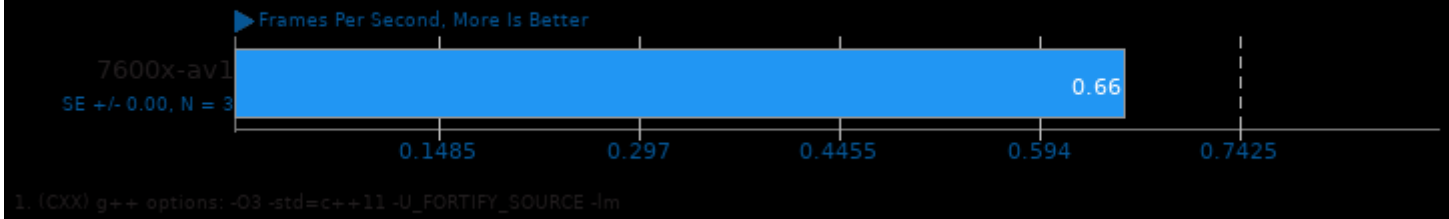
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.5

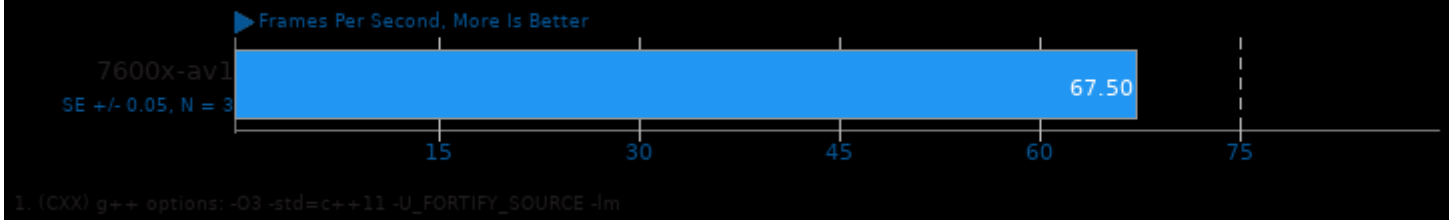
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.5

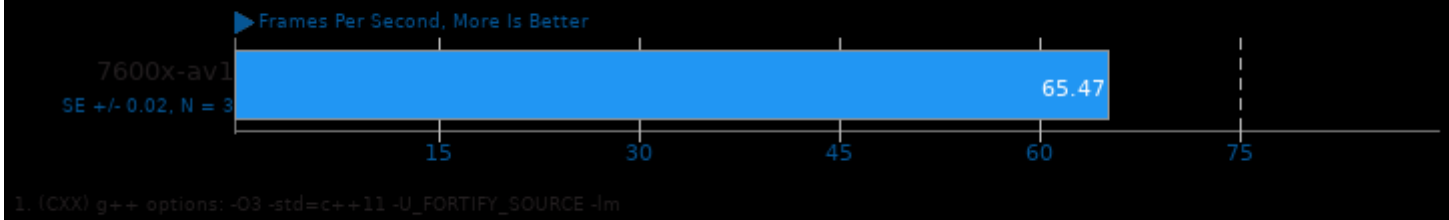
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.5

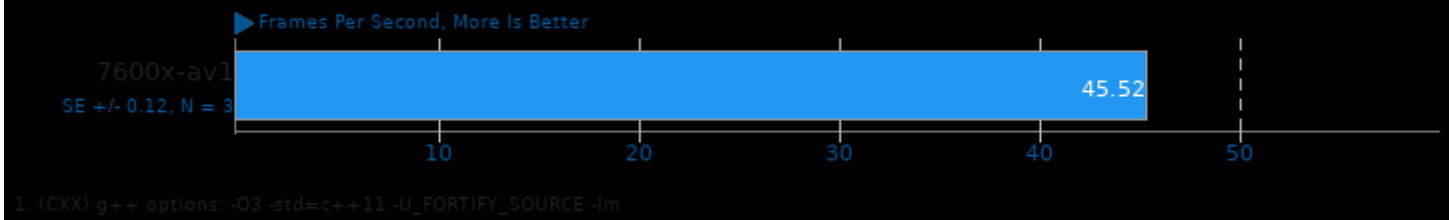
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

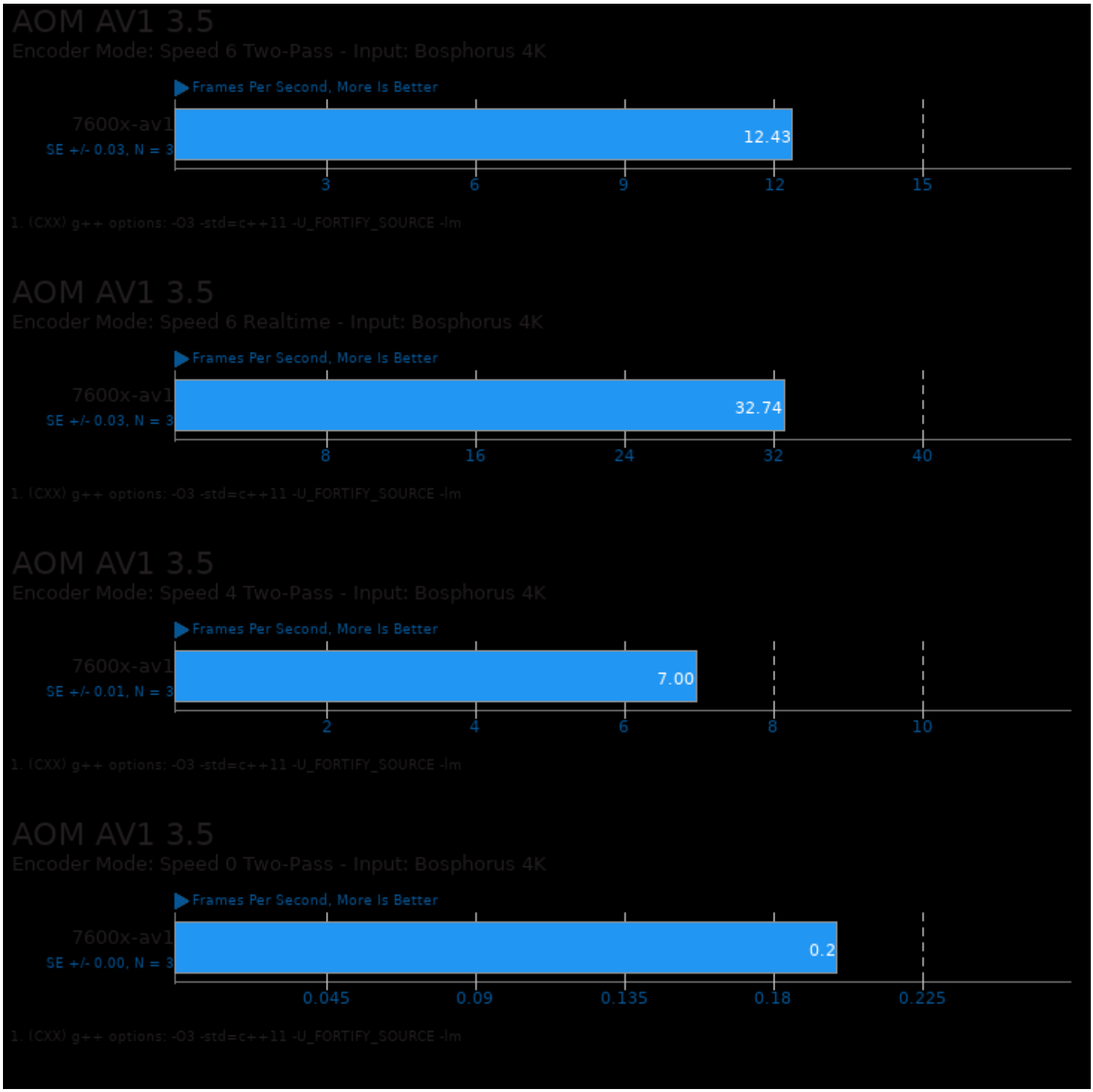
AOM AV1 3.5

Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

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