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# tgl svt-av1 1.2

Intel Core i7-1165G7 testing with a Dell 0GG9PT (3.3.0 BIOS) and Intel Xe TGL GT2 3GB on Ubuntu 21.10 via the Phoronix Test Suite.

**Automated Executive Summary**

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

*Based on the geometric mean of all complete results, the fastest (B) was 1.01x the speed of the slowest (C). A was 0.995x the speed of B and C was 0.995x the speed of A.*

## Test Systems:

### A

### B

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## C

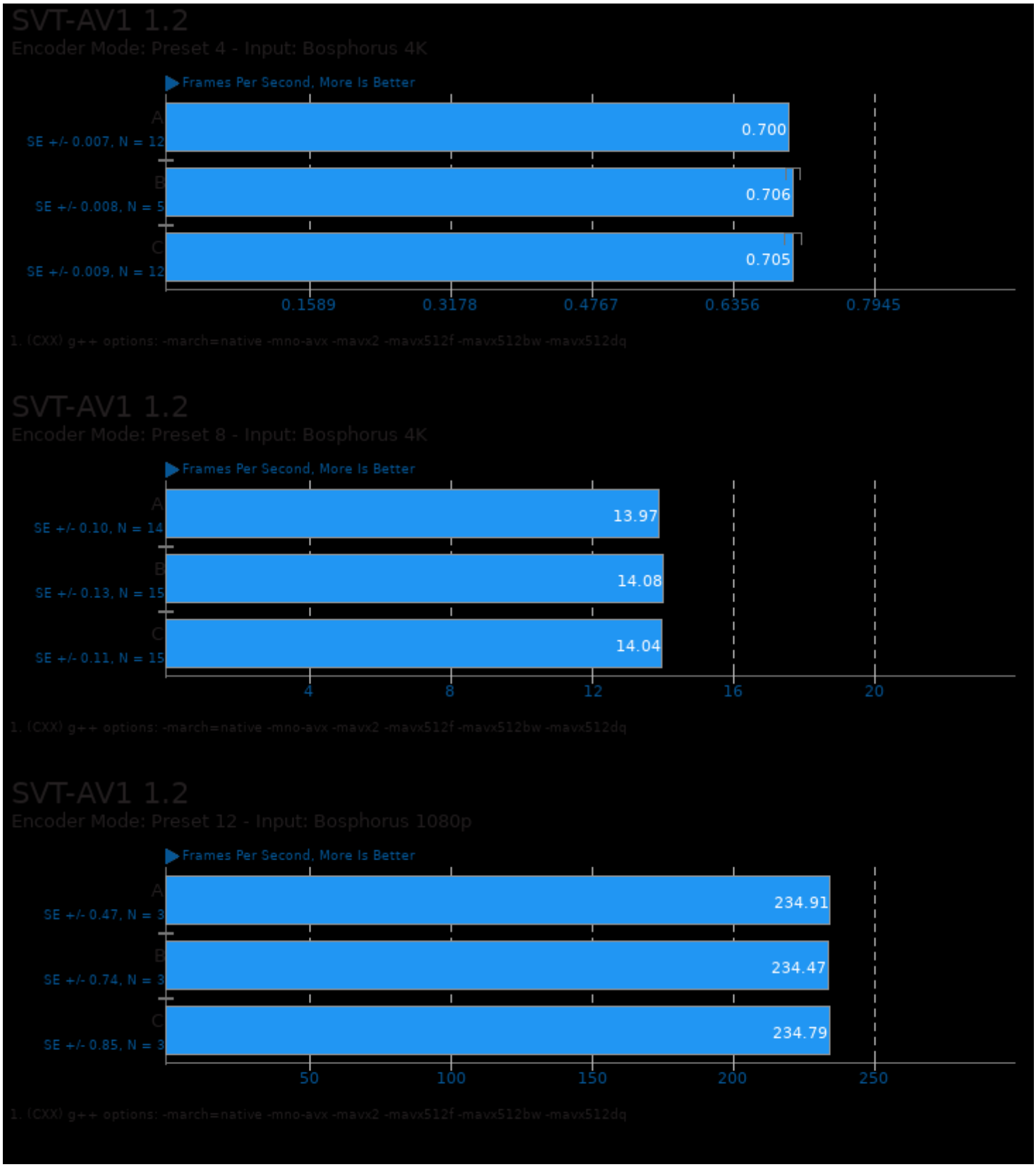
Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0GG9PT (3.3.0 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: Kioxia KBG40ZNS256G NVMe 256GB, Graphics: Intel Xe TGL GT2 3GB (1300MHz), Audio: Realtek ALC289, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 21.10, Kernel: 5.13.0-52-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.2, Vulkan: 1.2.182, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1200

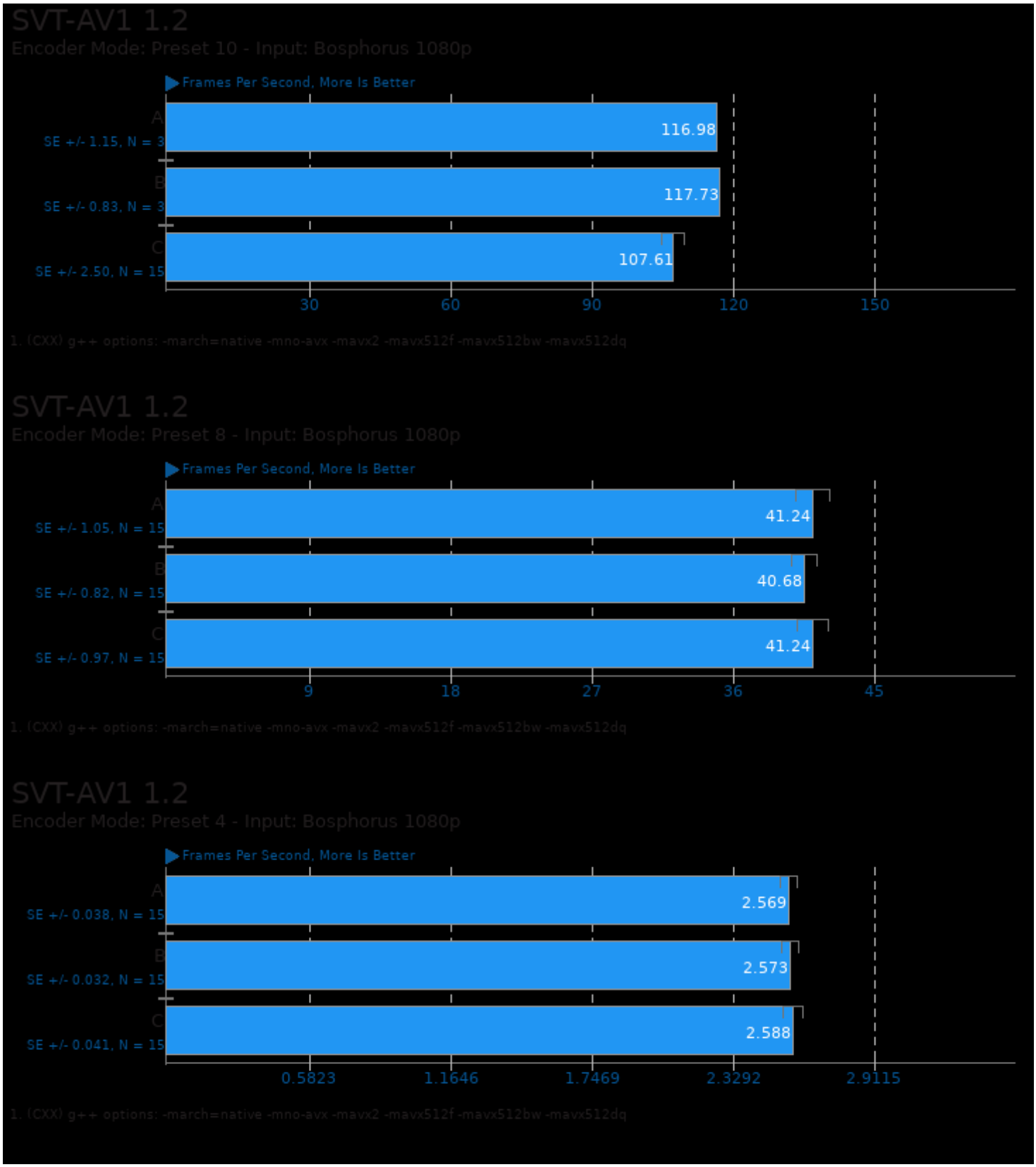
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/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-build-config=bootstrap-lto-lean --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 (EPP: balance_performance) - CPU Microcode: 0xa4 - Thermald 2.4.6
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: 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

| | A | B | C |
|---|---|---|---|
| **SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)** | **0.700** | **0.706** | 0.705 |
| **Normalized** | 99.15% | 100% | 99.86% |
| **Standard Deviation** | 3.2% | 2.5% | 4.4% |
| **SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)** | **13.969** | **14.076** | 14.035 |
| **Normalized** | 99.24% | 100% | 99.71% |
| **Standard Deviation** | 2.7% | 3.6% | 3.2% |
| **SVT-AV1 - Preset 12 - Bosphorus 1080p** | **234.913** | **234.473** | 234.791 |
| **Normalized** | 100% | 99.81% | 99.95% |
| **Standard Deviation** | 0.3% | 0.5% | 0.6% |
| **SVT-AV1 - Preset 10 - Bosphorus 1080p** | 116.983 | **117.730** | **107.611** |
| **Normalized** | 99.37% | 100% | 91.4% |
| **Standard Deviation** | 1.7% | 1.2% | 9% |
| **SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)** | 41.237 | **40.677** | **41.239** |
| **Normalized** | 100% | 98.64% | 100% |
| **Standard Deviation** | 9.9% | 7.8% | 9.2% |
| **SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)** | **2.569** | 2.573 | **2.588** |
| **Normalized** | 99.27% | 99.42% | 100% |
| **Standard Deviation** | 5.7% | 4.8% | 6.1% |
| **SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)** | **48.696** | **50.166** | 50.016 |
| **Normalized** | 97.07% | 100% | 99.7% |
| **Standard Deviation** | 5.5% | 9.8% | 8.7% |
| **SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)** | **32.355** | 32.310 | **32.296** |
| **Normalized** | 100% | 99.86% | 99.82% |
| **Standard Deviation** | 8.1% | 8% | 8.7% |

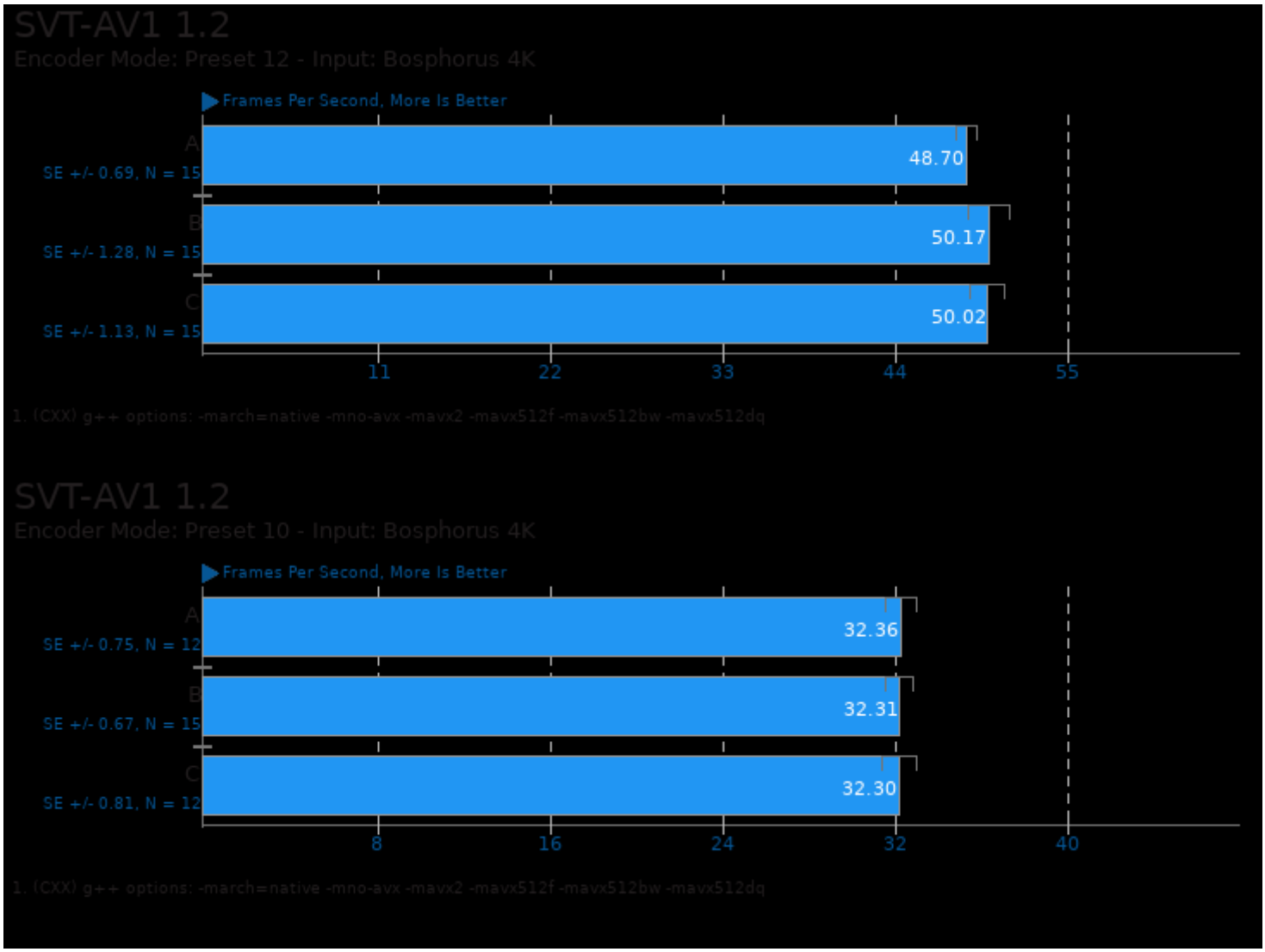
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*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 04:24.*