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# svt av1 comet

Intel Core i7-10700T testing with a Logic Supply RXM-181 (Z01-0002A026 BIOS) and Intel UHD 630 CML GT2 3GB on Ubuntu 21.04 via the Phoronix Test Suite.

**Automated Executive Summary**

*B had the most wins, coming in first place for 62% of the tests.*

*Based on the geometric mean of all complete results, the fastest (B) was 1.014x the speed of the slowest (A). C was 0.999x the speed of B and A was 0.987x the speed of C.*

## Test Systems:

### A

### B

# svt av1 comet

## C

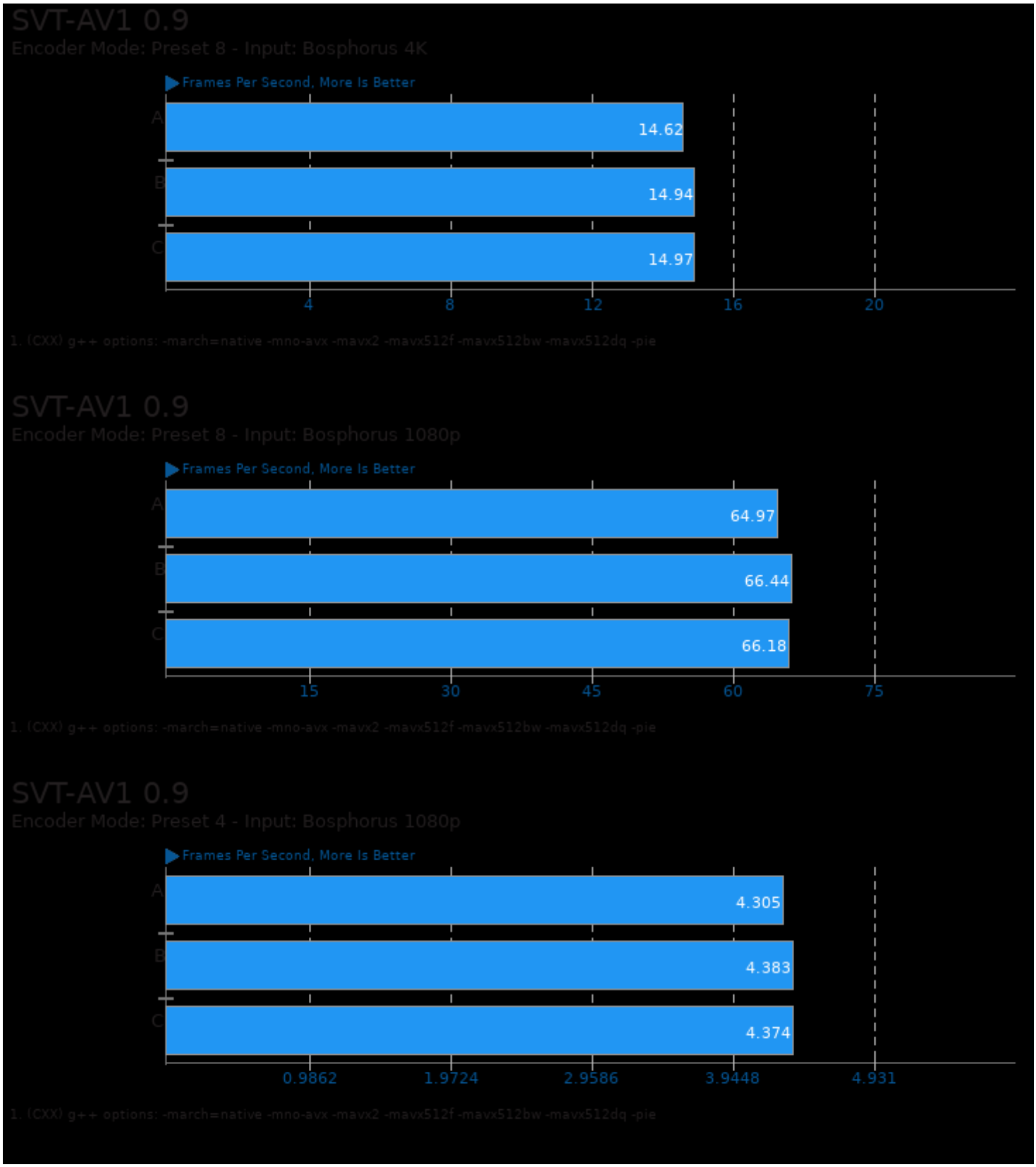
Processor: Intel Core i7-10700T @ 4.50GHz (8 Cores / 16 Threads), Motherboard: Logic Supply RXM-181 (Z01-0002A026 BIOS), Chipset: Intel Comet Lake PCH, Memory: 32GB, Disk: 256GB TS256GMTS800, Graphics: Intel UHD 630 CML GT2 3GB (1200MHz), Audio: Realtek ALC233, Monitor: DELL P2415Q, Network: Intel I219-LM + Intel I210

OS: Ubuntu 21.04, Kernel: 5.11.0-41-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.0.1, Vulkan: 1.2.145, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

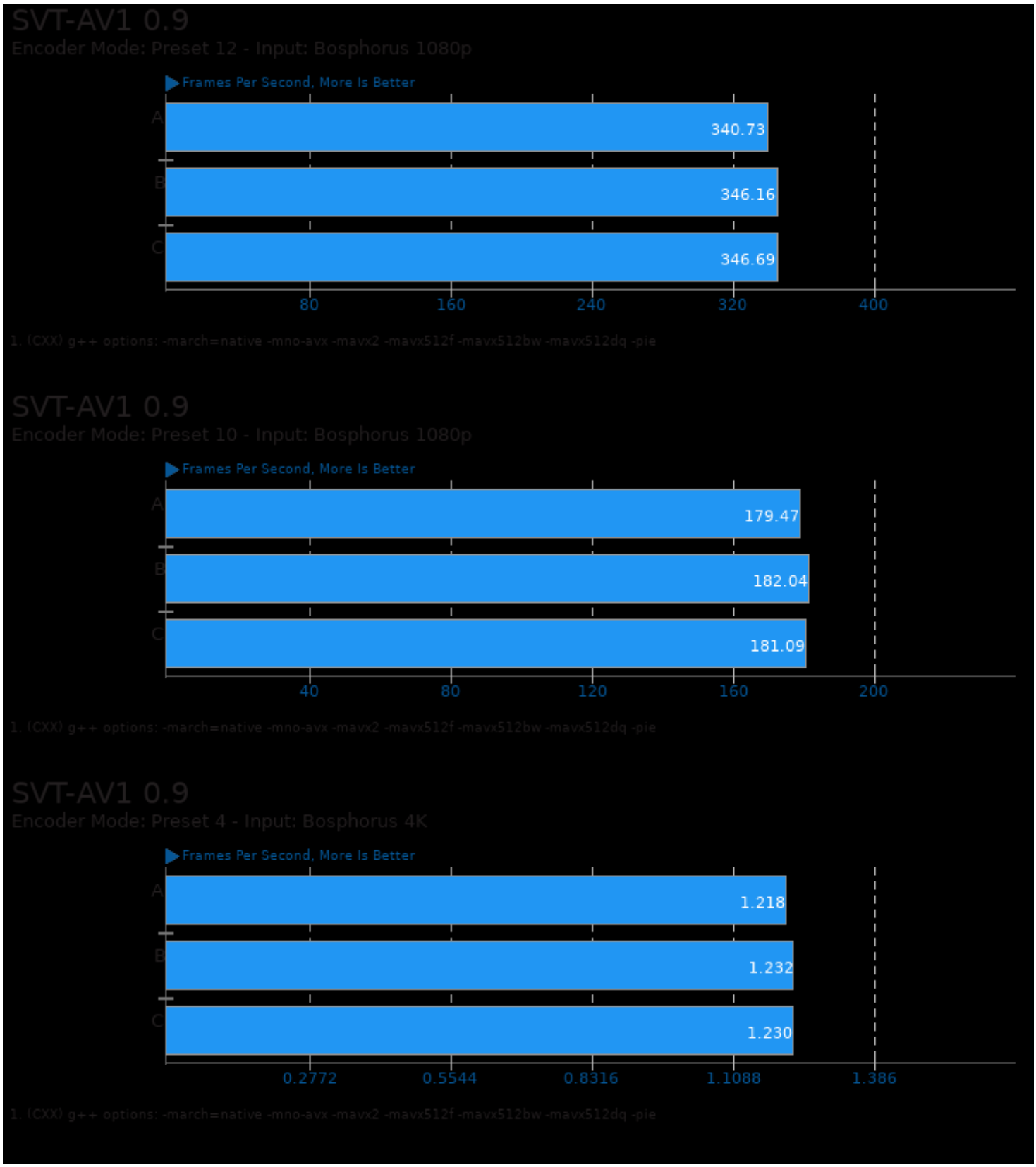
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-gcn/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-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: 0xec - Thermald 2.4.3
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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

| | A | B | C |
|---|---|---|---|
| **SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)** | **14.621** | 14.942 | **14.974** |
| **Normalized** | 97.64% | 99.79% | 100% |
| **SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)** | **64.971** | **66.438** | 66.178 |
| **Normalized** | 97.79% | 100% | 99.61% |
| **SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)** | **4.305** | **4.383** | 4.374 |
| **Normalized** | 98.22% | 100% | 99.79% |
| **SVT-AV1 - Preset 12 - Bosphorus 1080p** | **340.725** | 346.16 | **346.685** |
| **Normalized** | 98.28% | 99.85% | 100% |
| **SVT-AV1 - Preset 10 - Bosphorus 1080p** | **179.469** | **182.042** | 181.088 |
| **Normalized** | 98.59% | 100% | 99.48% |
| **SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)** | **1.218** | **1.232** | 1.23 |
| **Normalized** | 98.86% | 100% | 99.84% |
| **SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)** | **33.87** | 34.049 | **34.157** |
| **Normalized** | 99.16% | 99.68% | 100% |
| **SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)** | **70.396** | **70.837** | 70.559 |
| **Normalized** | 99.38% | 100% | 99.61% |

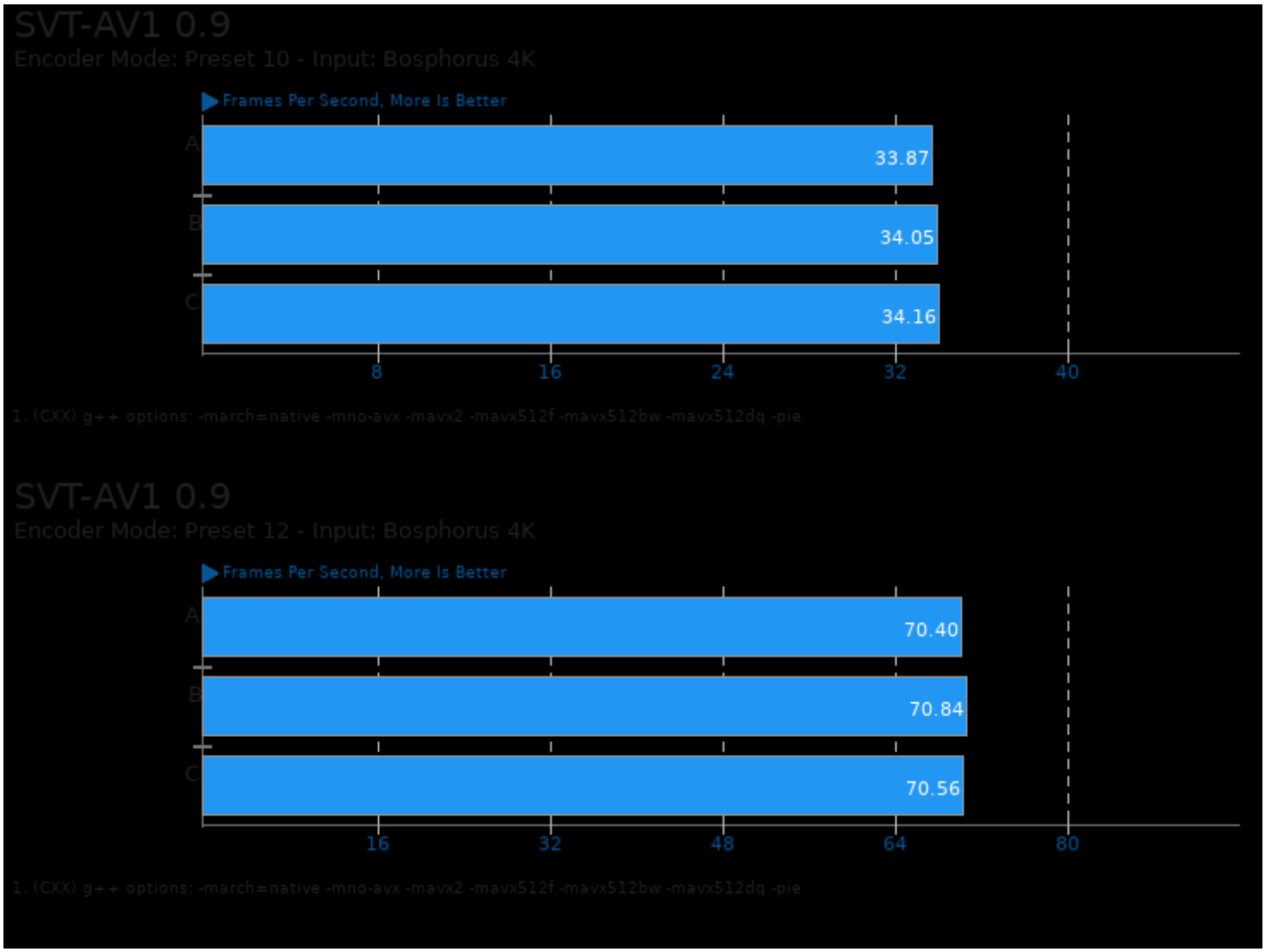
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*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:38.*