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# askap webp2 8100

Intel Core i3-8100 testing with a ASRock Z370M-ITX/ac (P4.10 BIOS) and Intel 8th Gen Core Gaussian Mixture Model 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

**Automated Executive Summary**

*1 had the most wins, coming in first place for 45% of the tests.*

*Based on the geometric mean of all complete results, the fastest (1) was 1.003x the speed of the slowest (2). 3 was 0.998x the speed of 1 and 2 was 0.999x the speed of 3.*

## Test Systems:

**1**

**2**

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## 3

Processor: Intel Core i3-8100 @ 3.60GHz (4 Cores), Motherboard: ASRock Z370M-ITX/ac (P4.10 BIOS), Chipset: Intel 8th Gen Core 4-core Desktop, Memory: 8GB, Disk: 60GB DREVO X1 SSD, Graphics: Intel 8th Gen Core Gaussian Mixture Model 3GB (1100MHz), Audio: Realtek ALC892, Monitor: VA2431, Network: Intel I219-V + Intel I211 + Intel Dual Band-AC 3168NGW

OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc1daily20200819-generic (x86_64) 20200818, 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, Vulkan: 1.2.131, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

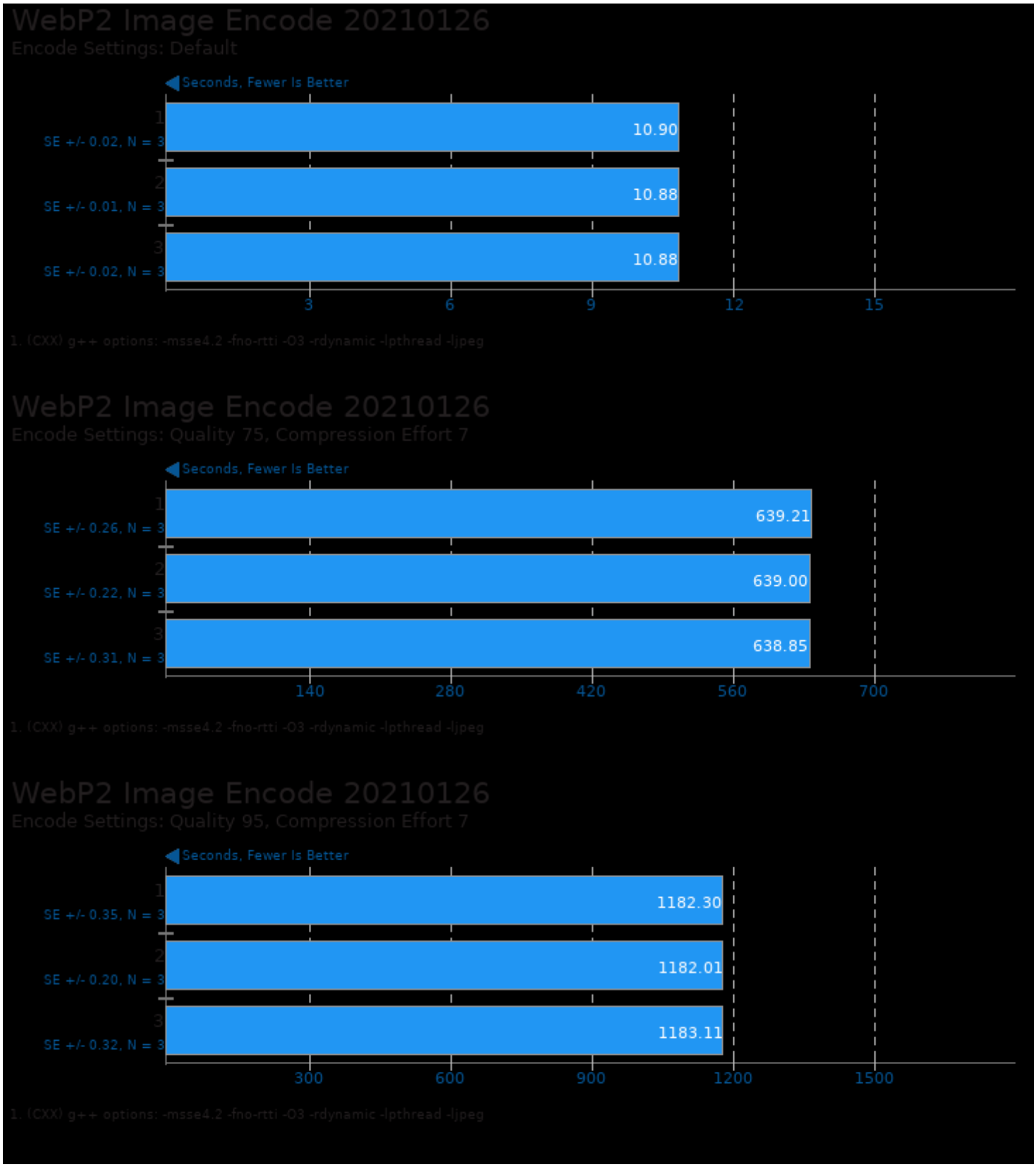
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --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: 0xde - Thermald 1.9.1
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT disabled + mds: Mitigation of Clear buffers; SMT disabled + 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: disabled RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Not affected

| | 1 | 2 | 3 |
|---|---|---|---|
| **WebP2 Image Encode - Default (sec)** | **10.902** | **10.875** | 10.880 |
| **Normalized** | 99.75% | 100% | 99.95% |
| **Standard Deviation** | 0.4% | 0.2% | 0.2% |
| **WebP2 Image Encode - Q.7.C.E.7 (sec)** | **639.210** | 638.996 | **638.851** |
| **Normalized** | 99.94% | 99.98% | 100% |
| **Standard Deviation** | 0.1% | 0.1% | 0.1% |
| **WebP2 Image Encode - Q.9.C.E.7 (sec)** | 1182 | **1182** | **1183** |
| **Normalized** | 99.98% | 100% | 99.91% |
| **Standard Deviation** | 0.1% | 0% | 0% |
| **WebP2 Image Encode - Q.1.C.E.5 (sec)** | **38.645** | 38.660 | **38.666** |
| **Normalized** | 100% | 99.96% | 99.95% |
| **Standard Deviation** | 0% | 0.1% | 0% |
| **ASKAP - tConvolve MT - Gridding (Million Grid Points/sec)** | **1036** | **1033** | 1035 |
| **Normalized** | 100% | 99.71% | 99.93% |
| **Standard Deviation** | 0.3% | 0.1% | 0.1% |
| **ASKAP - tConvolve MT - Degridding (Million Grid Points/sec)** | 1314 | **1313** | **1314** |
| **Normalized** | 100% | 99.92% | 100% |
| **Standard Deviation** | 0.1% | 0.2% | 0.2% |
| **ASKAP - tConvolve MPI - Degridding** | **1087** | 1081 | **1078** |
| **Normalized** | 100% | 99.46% | 99.18% |
| **Standard Deviation** | 0.5% | 1% | 0.9% |
| **ASKAP - tConvolve MPI - Gridding** | **1134** | 1131 | **1125** |
| **Normalized** | 100% | 99.72% | 99.15% |
| **Standard Deviation** | 0.5% | 0.9% | 1% |
| **ASKAP - tConvolve OpenMP - Gridding (Million Grid Points/sec)** | **966.316** | **933.173** | 951.067 |
| **Normalized** | 100% | 96.57% | 98.42% |

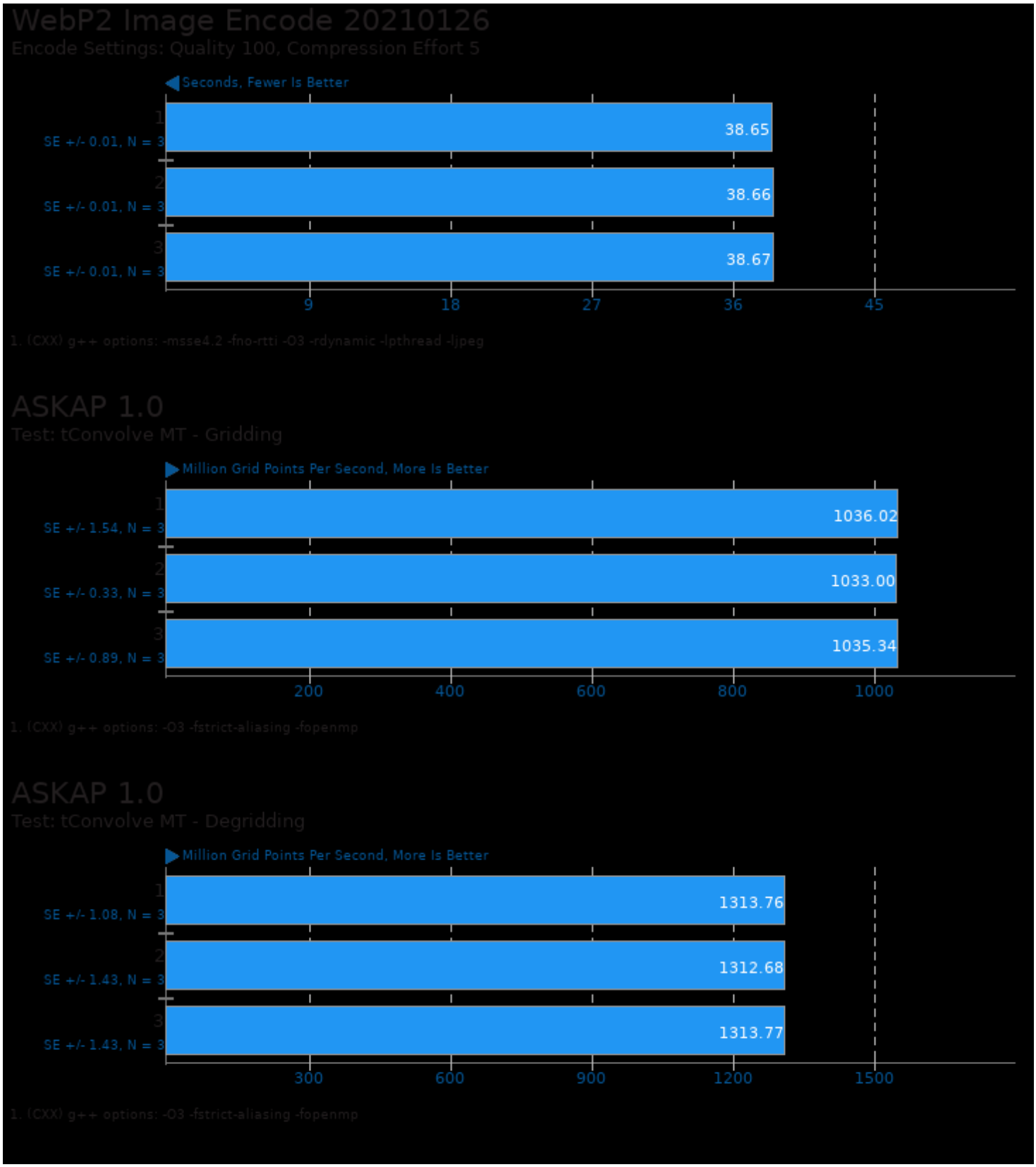
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| | | | |
|---|---|---|---|
| **Standard Deviation** | 2.8% | 0.7% | 1.5% |
| **ASKAP - tConvolve OpenMP - Degridding (Million Grid Points/sec)** | **1354** | 1361 | **1363** |
| **Normalized** | 99.3% | 99.83% | 100% |
| **Standard Deviation** | 0.2% | 0.3% | 0.3% |
| **ASKAP - H.C.O (Iterations/sec)** | **128.922** | **129.088** | 128.978 |
| **Normalized** | 99.87% | 100% | 99.91% |
| **Standard Deviation** | 0.2% | 0.1% | 0.4% |

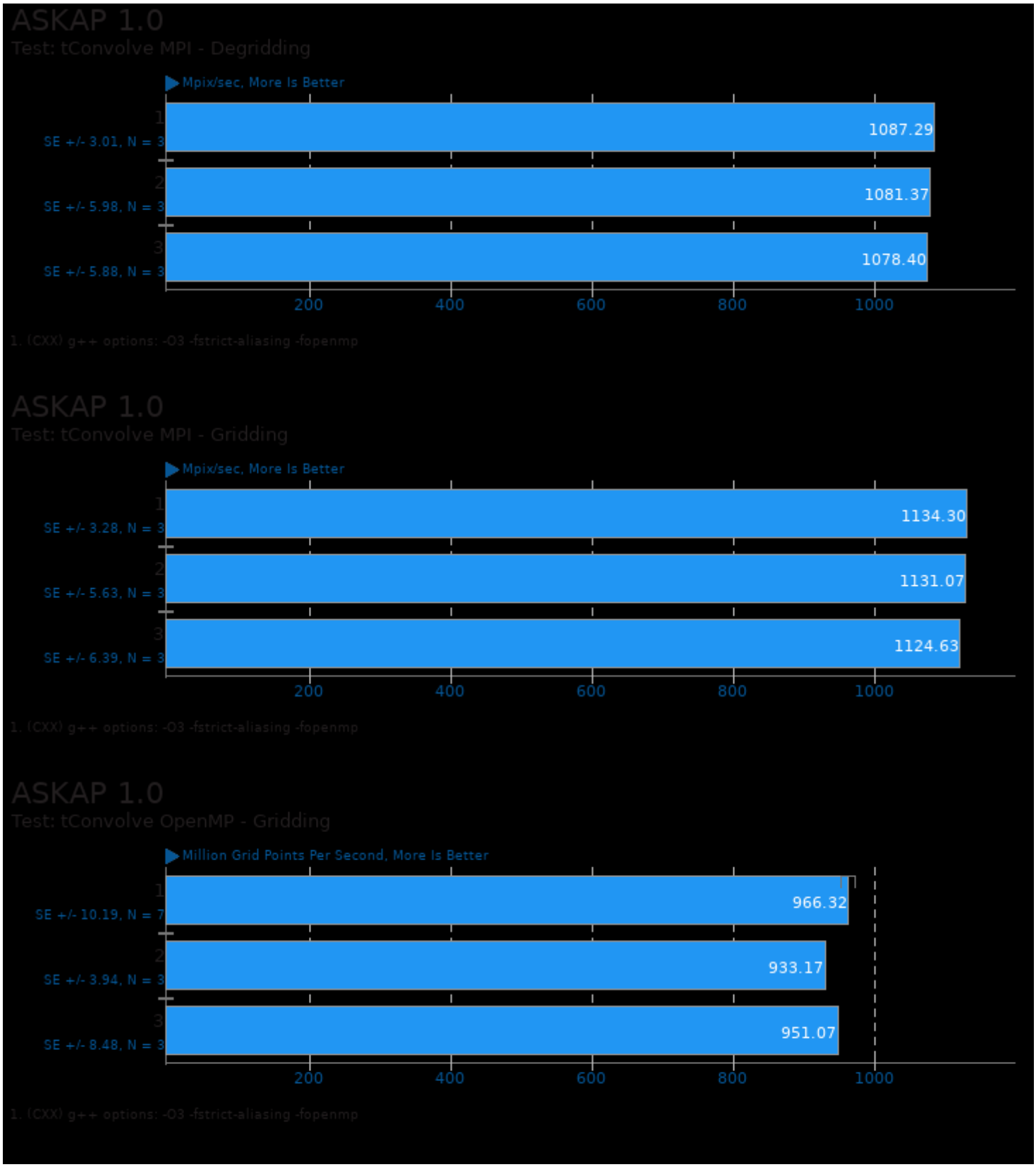
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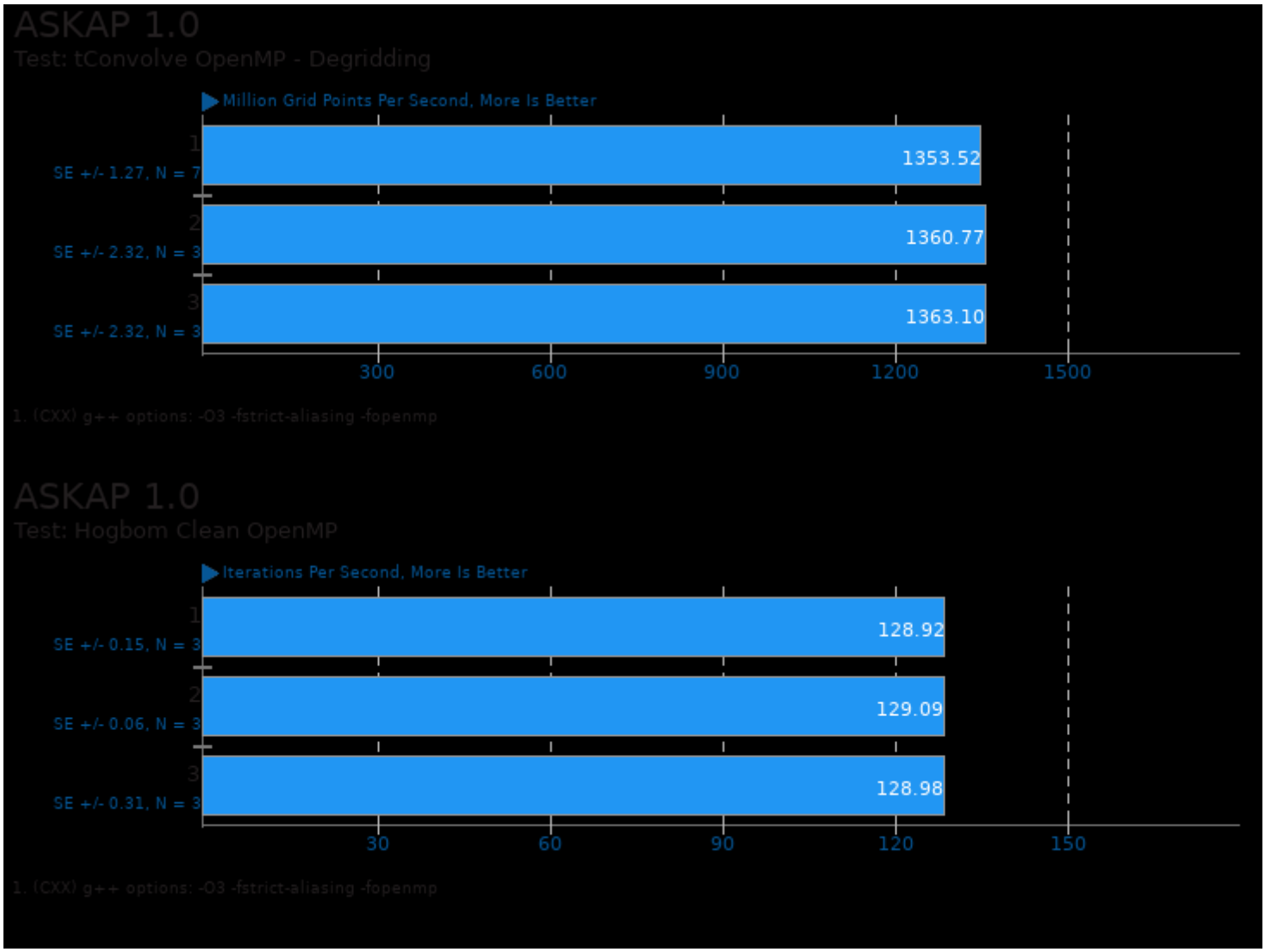
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*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 04:52.*