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11900k xmrig

Intel Core i9-11900K testing with a ASUS ROG MAXIMUS XIII HERO (0703 BIOS) and AMD Radeon VII 16GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

4 had the most wins, coming in first place for 41% of the tests.

Based on the geometric mean of all complete results, the fastest (4) was 1.001x the speed of the slowest (3). 2 was 1x the speed of 4, 1 was 1x the speed of 2, 3 was 0.999x the speed of 1.

Test Systems:

1

2

3

4

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0703 BIOS), Chipset: Intel Device 43ef, Memory: 32GB, Disk: 500GB Western Digital WDS500G3X0C-00SJG0, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Device 43c8, Monitor: ASUS MG28U, Network: 2 x Intel + Intel Device 2725

OS: Ubuntu 20.10, Kernel: 5.12.0-051200rc8-generic (x86_64) 20210418, Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

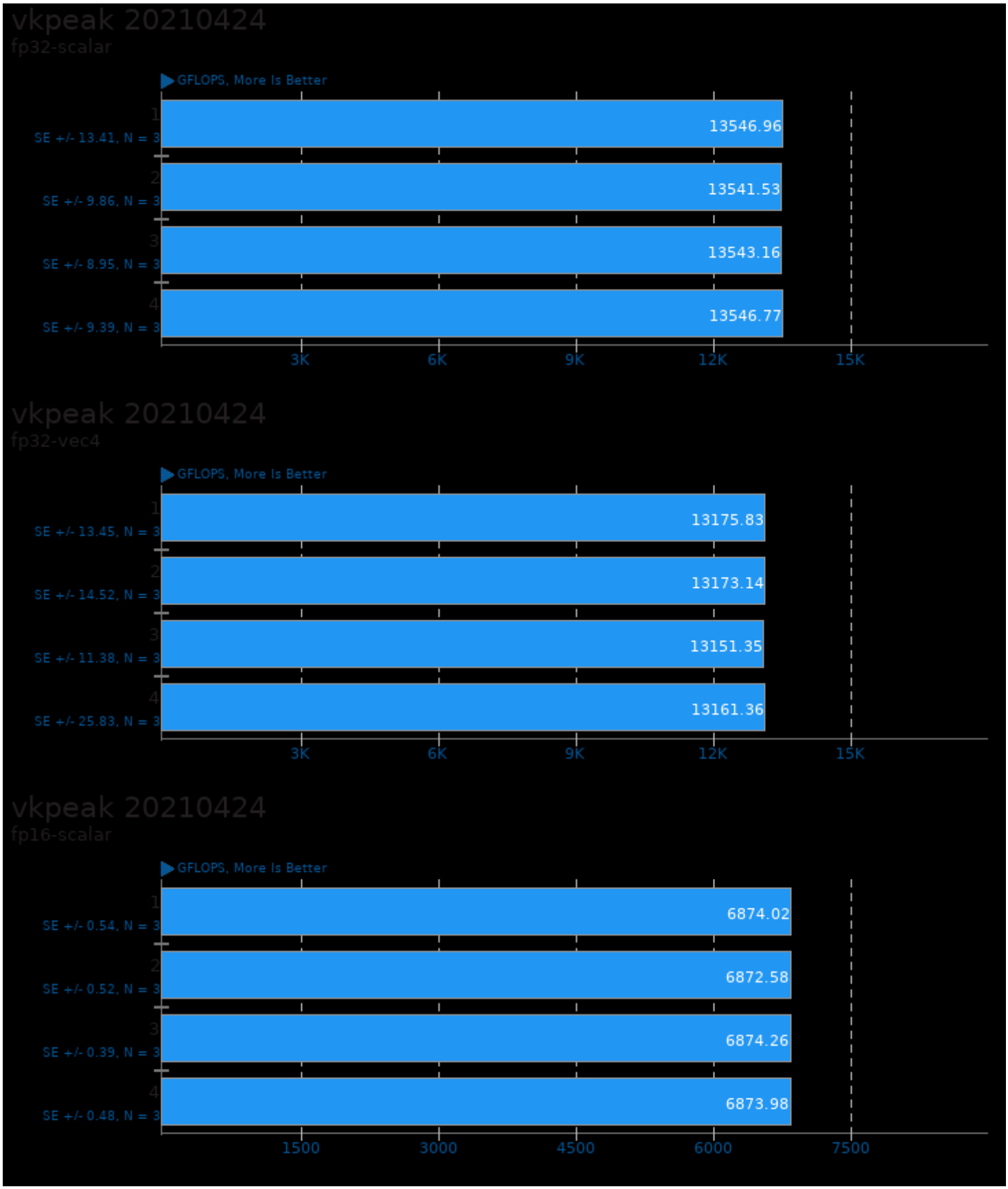
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/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-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: 0x3c - Thermald 2.3
Graphics Notes: GLAMOR
Security Notes: itlb_multihit: Not affected + 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

	1	2	3	4
vkpeak - fp32-scalar (GFLOPS)	**13547**	**13542**	13543	13547
Normalized	100%	99.96%	99.97%	100%
Standard Deviation	0.2%	0.1%	0.1%	0.1%
vkpeak - fp32-vec4 (GFLOPS)	**13176**	13173	**13151**	13161
Normalized	100%	99.98%	99.81%	99.89%
Standard Deviation	0.2%	0.2%	0.1%	0.3%
vkpeak - fp16-scalar (GFLOPS)	6874	**6873**	**6874**	6874
Normalized	100%	99.98%	100%	100%
Standard Deviation	0%	0%	0%	0%
vkpeak - fp16-vec4 (GFLOPS)	**6640**	6642	6641	**6643**
Normalized	99.95%	99.98%	99.97%	100%
Standard Deviation	0.3%	0.3%	0.2%	0.2%
vkpeak - fp64-scalar (GFLOPS)	1720	**1718**	1720	**1720**
Normalized	99.99%	99.88%	100%	100%
Standard Deviation	0.1%	0.2%	0.1%	0%
vkpeak - int32-scalar (GIOPS)	4569	4568	**4567**	**4569**
Normalized	100%	100%	99.97%	100%
Standard Deviation	0.1%	0.1%	0.3%	0.2%
vkpeak - int32-vec4 (GIOPS)	**4497**	4489	4490	**4488**
Normalized	100%	99.82%	99.86%	99.81%
Standard Deviation	0.1%	0.1%	0.2%	0.2%
vkpeak - int16-scalar (GIOPS)	2676	**2682**	2679	**2676**
Normalized	99.78%	100%	99.89%	99.77%
Standard Deviation	0%	0.2%	0.2%	0%
vkpeak - int16-vec4 (GIOPS)	**2652**	2652	**2647**	2648
Normalized	100%	100%	99.8%	99.84%

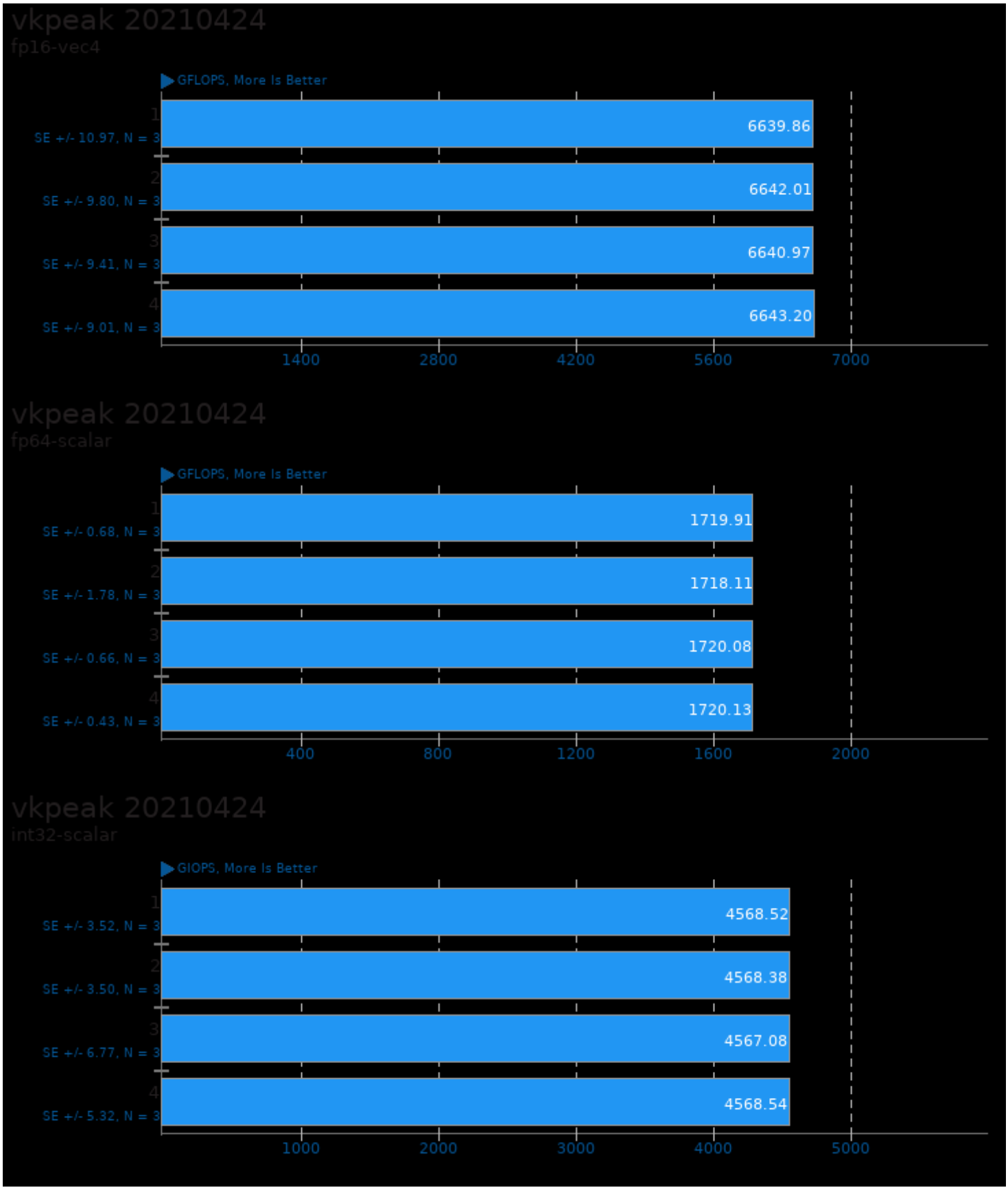
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Standard Deviation	0.3%	0.1%	0.2%	0.3%
Xmrig - Monero - 1M (H/s)	2260	2255	**2252**	**2267**
Normalized	99.68%	99.47%	99.33%	100%
Standard Deviation	0.2%	0.4%	0.5%	0.1%
Xmrig - Wownero - 1M (H/s)	4062	**4074**	**4054**	4072
Normalized	99.72%	100%	99.51%	99.95%
Standard Deviation	0.7%	0.3%	0.1%	0.1%
libjpeg-turbo tjbench - D.T (Megapixels/sec)	235.649474	235.846842	**235.647920**	**235.894717**
Normalized	99.9%	99.98%	99.9%	100%
Standard Deviation	0.4%	0.7%	0.4%	0.5%

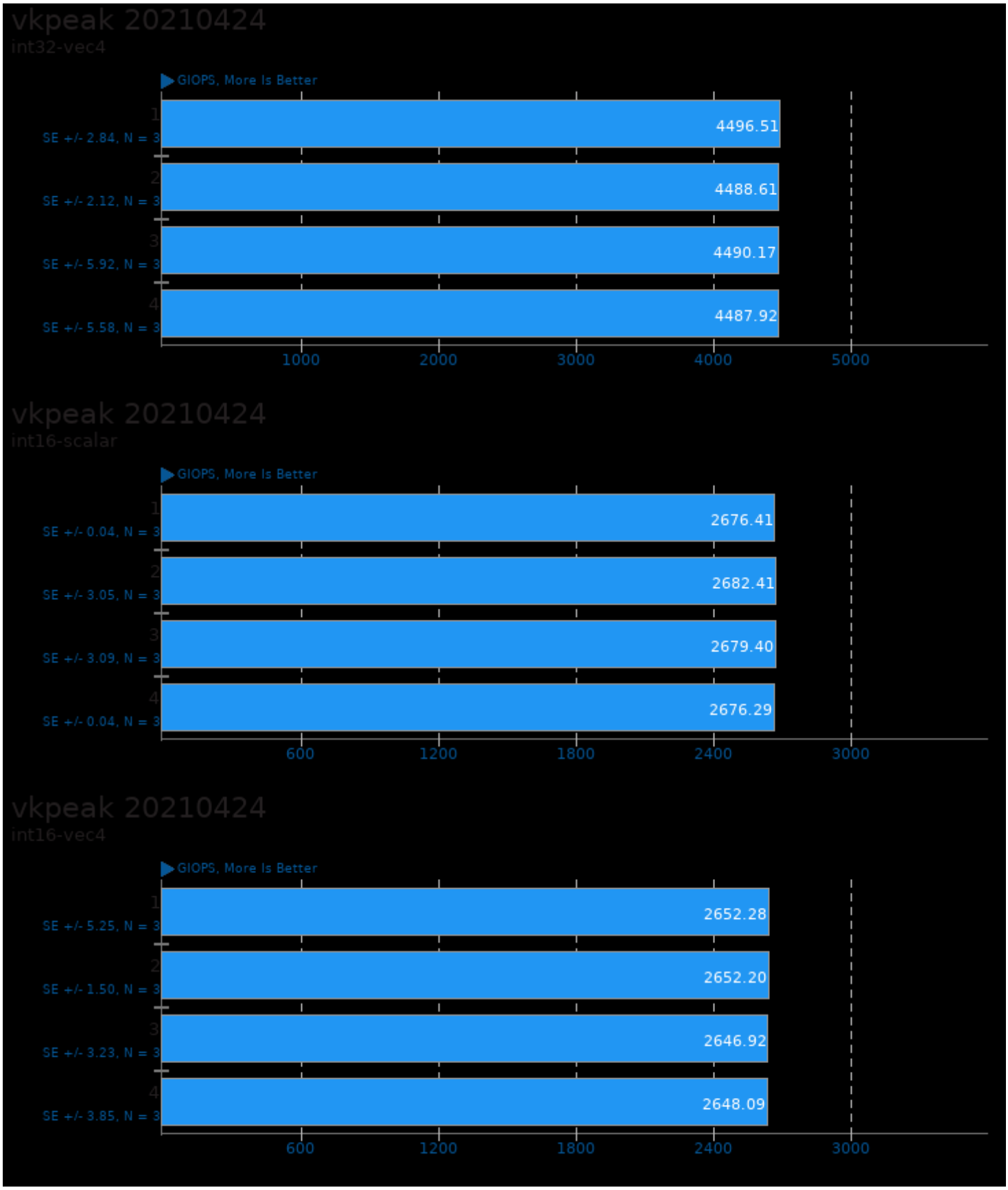
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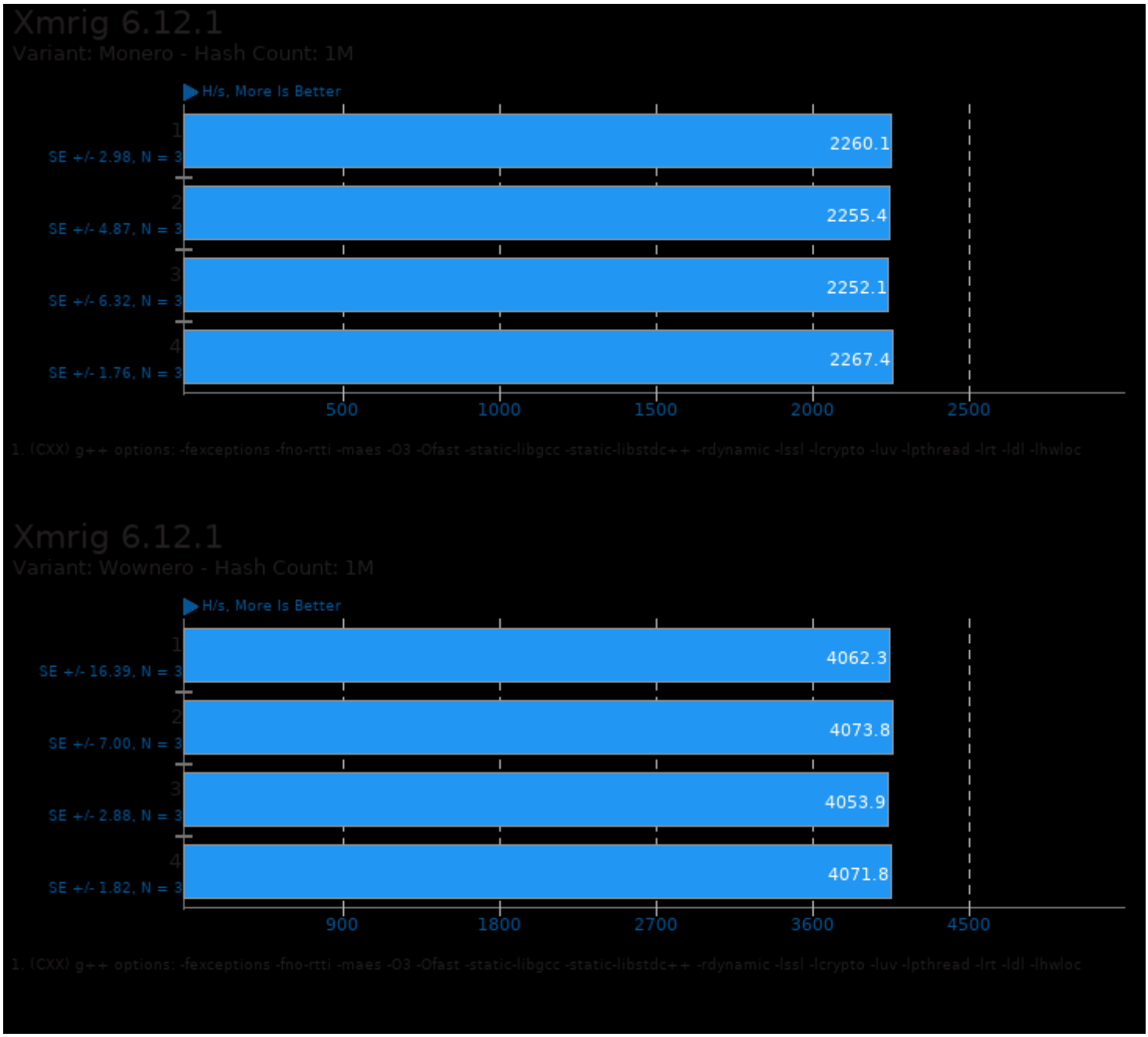
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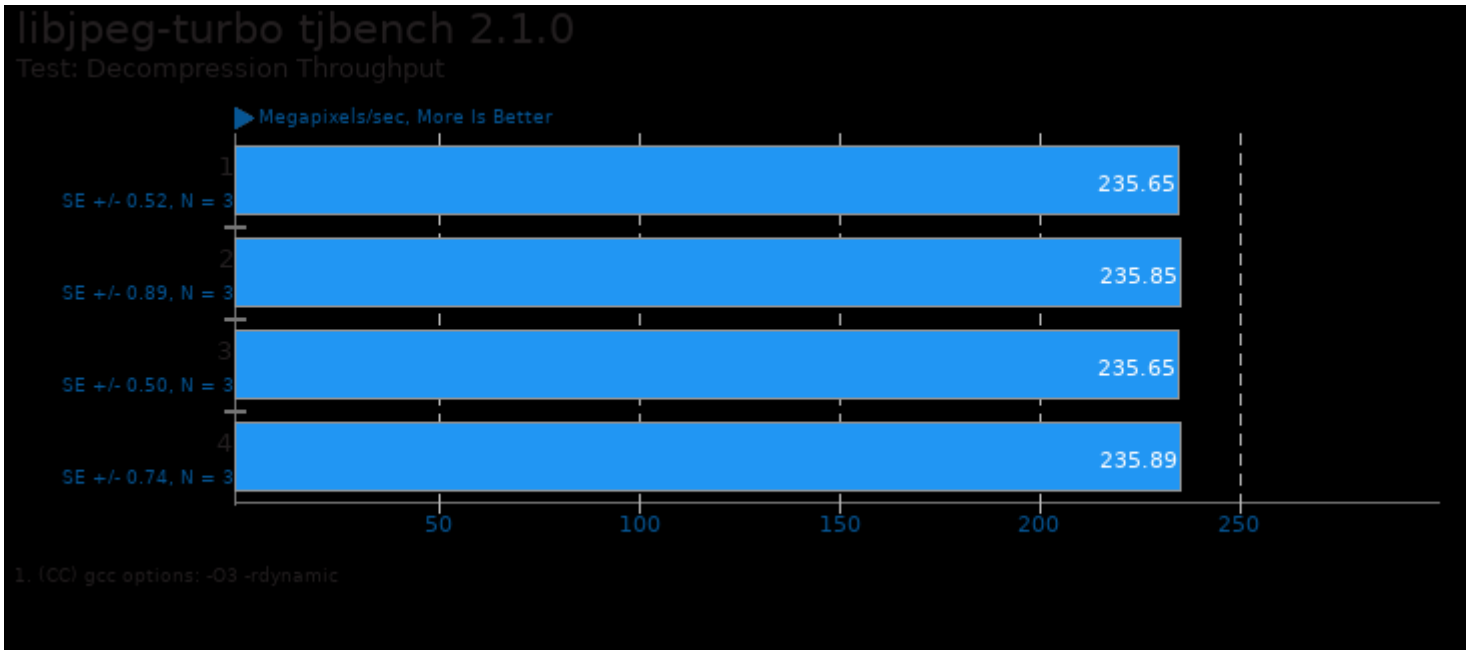
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