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cpuminer xeon ice lake

2 x Intel Xeon Platinum 8380 testing with a Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS) and ASPEED on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

2 had the most wins, coming in first place for 42% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.029x the speed of the slowest (2). 3 was 0.99x the speed of 1 and 2 was 0.982x the speed of 3.

Test Systems:

1

2

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3

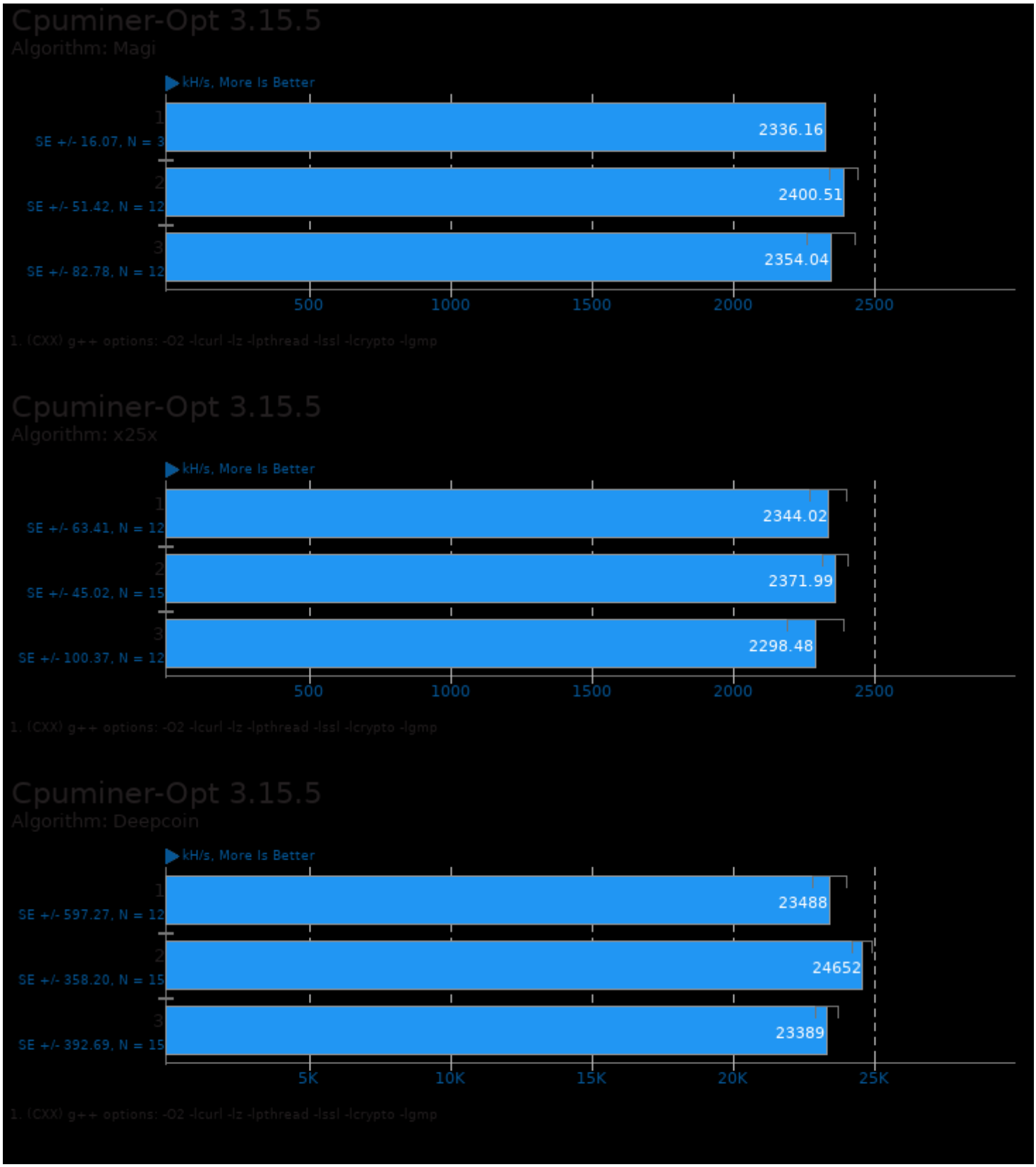
Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 16 x 32 GB DDR4-3200MT/s Hynix HMA84GR7CJR4N-XN, Disk: 2 x 7682GB INTEL SSDPF2KX076TZ + 2 x 800GB INTEL SSDPF21Q800GB + 3841GB Micron_9300_MTFDHAL3T8TDP + 960GB INTEL SSDSC2KG96, Graphics: ASPEED, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: Ubuntu 20.04, Kernel: 5.11.0-051100-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1024x768

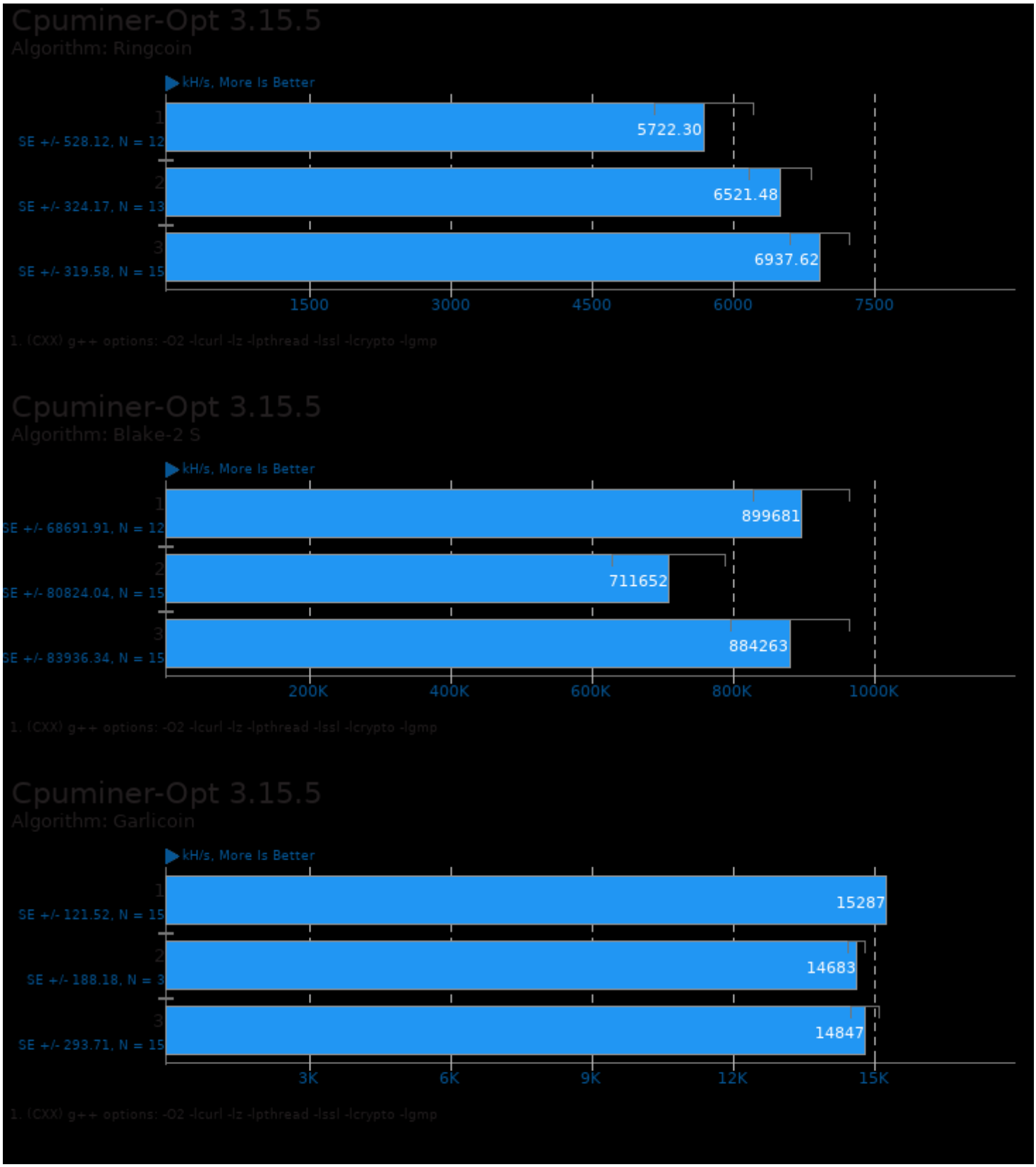
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --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: 0xd000270
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
Cpuminer-Opt - Magi (kH/s)	**2336**	**2401**	2354
Normalized	97.32%	100%	98.06%
Standard Deviation	1.2%	7.4%	12.2%
Cpuminer-Opt - x25x (kH/s)	2344	**2372**	**2298**
Normalized	98.82%	100%	96.9%
Standard Deviation	9.4%	7.4%	15.1%
Cpuminer-Opt - Deepcoin (kH/s)	23488	**24652**	**23389**
Normalized	95.28%	100%	94.88%
Standard Deviation	8.8%	5.6%	6.5%
Cpuminer-Opt - Ringcoin (kH/s)	**5722**	6521	**6938**
Normalized	82.48%	94%	100%
Standard Deviation	32%	17.9%	17.8%
Cpuminer-Opt - Blake-2 S (kH/s)	**899681**	**711652**	884263
Normalized	100%	79.1%	98.29%
Standard Deviation	26.4%	44%	36.8%
Cpuminer-Opt - Garlicoin (kH/s)	**15287**	**14683**	14847
Normalized	100%	96.05%	97.12%
Standard Deviation	3.1%	2.2%	7.7%
Cpuminer-Opt - Skeincoin (kH/s)	**209918**	181943	**171795**
Normalized	100%	86.67%	81.84%
Standard Deviation	19.5%	22.8%	21.7%
Cpuminer-Opt - Myriad-Groestl (kH/s)	83443		
Standard Deviation	17.3%		
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	125525		
Standard Deviation	20%		
Cpuminer-Opt - Q.S.2.P (kH/s)	238283		
Standard Deviation	25.8%		
Cpuminer-Opt - T.S.2.O (kH/s)	225641		
Standard Deviation	44.8%		

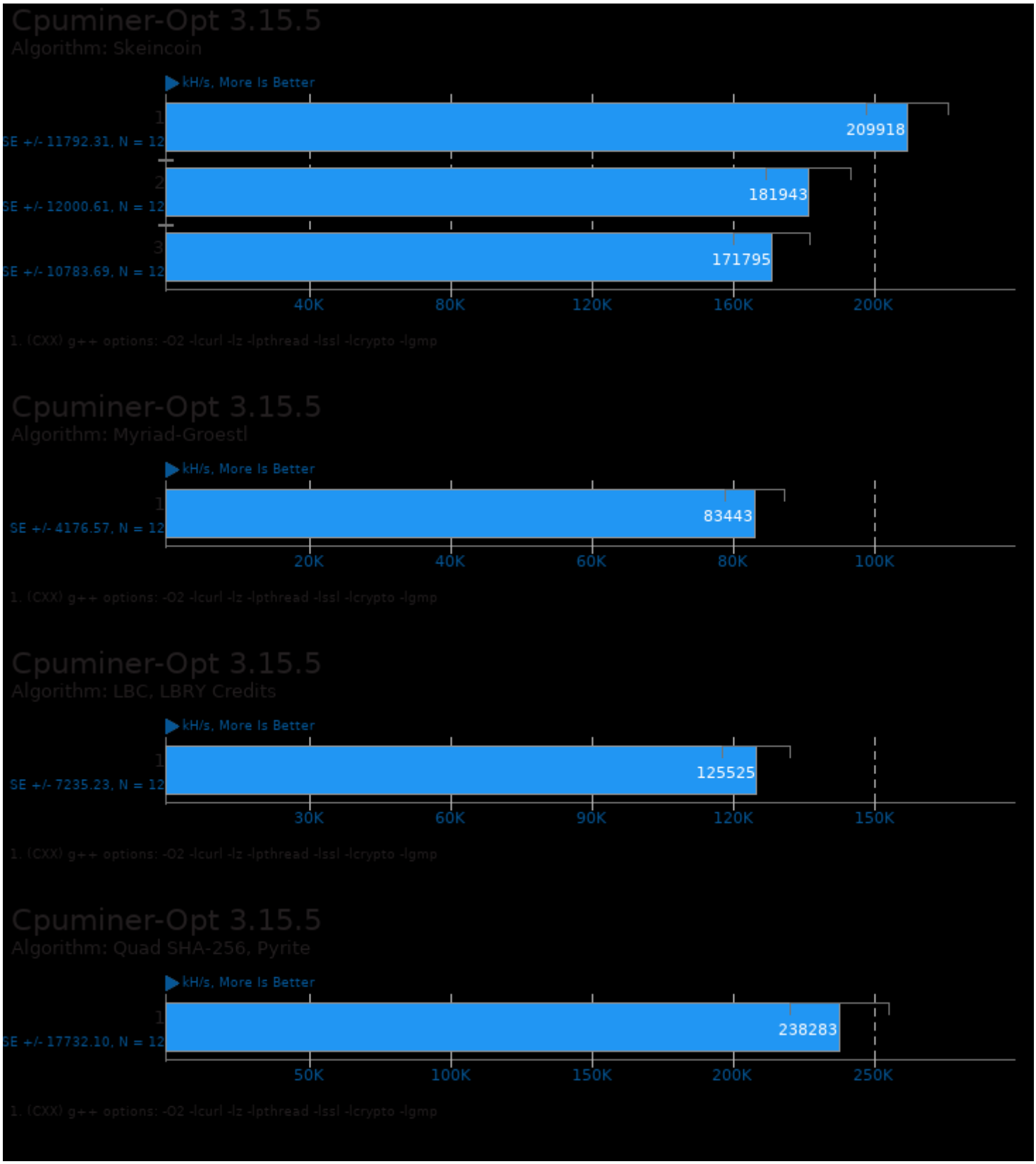
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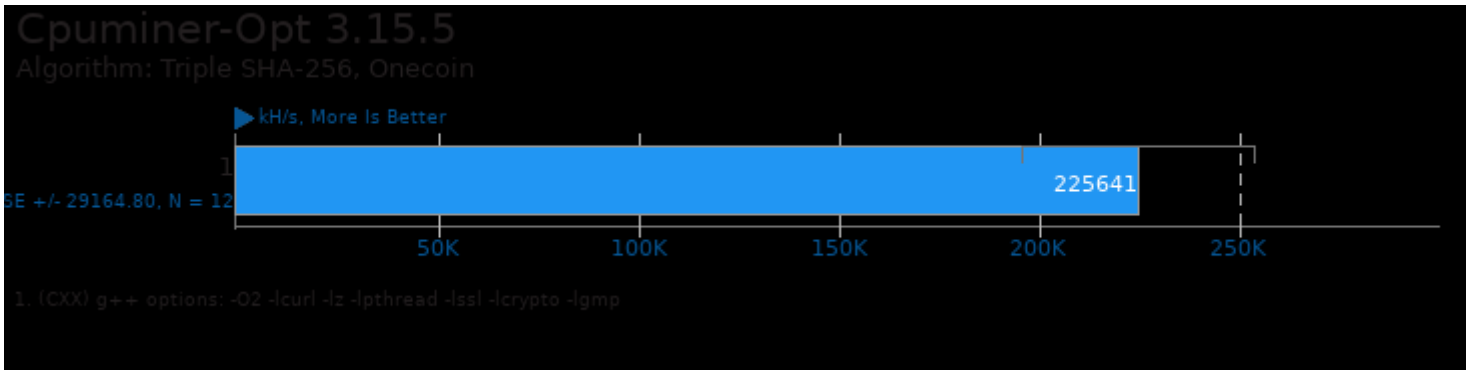
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