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epyc cpu miner

AMD EPYC 7551 32-Core testing with a GIGABYTE MZ31-AR0-00 v01010101 (F10 BIOS) and ASPEED on Debian 10 via the Phoronix Test Suite.

Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (AMD EPYC 7551 32-Core) was 1.002x the speed of the slowest (3). 2 was 0.999x the speed of AMD EPYC 7551 32-Core and 3 was 0.999x the speed of 2.

Test Systems:

AMD EPYC 7551 32-Core

2

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3

Processor: AMD EPYC 7551 32-Core @ 2.00GHz (32 Cores / 64 Threads), Motherboard: GIGABYTE MZ31-AR0-00 v01010101 (F10 BIOS), Chipset: AMD 17h, Memory: 8 x 4096 MB DDR4-2667MT/s 9ASF51272PZ-2G6E1, Disk: Samsung SSD 960 EVO 500GB, Graphics: ASPEED, Network: Realtek RTL8111/8168/8411 + 2 x Broadcom NetXtreme II BCM57810 10

OS: Debian 10, Kernel: 4.19.0-10-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768

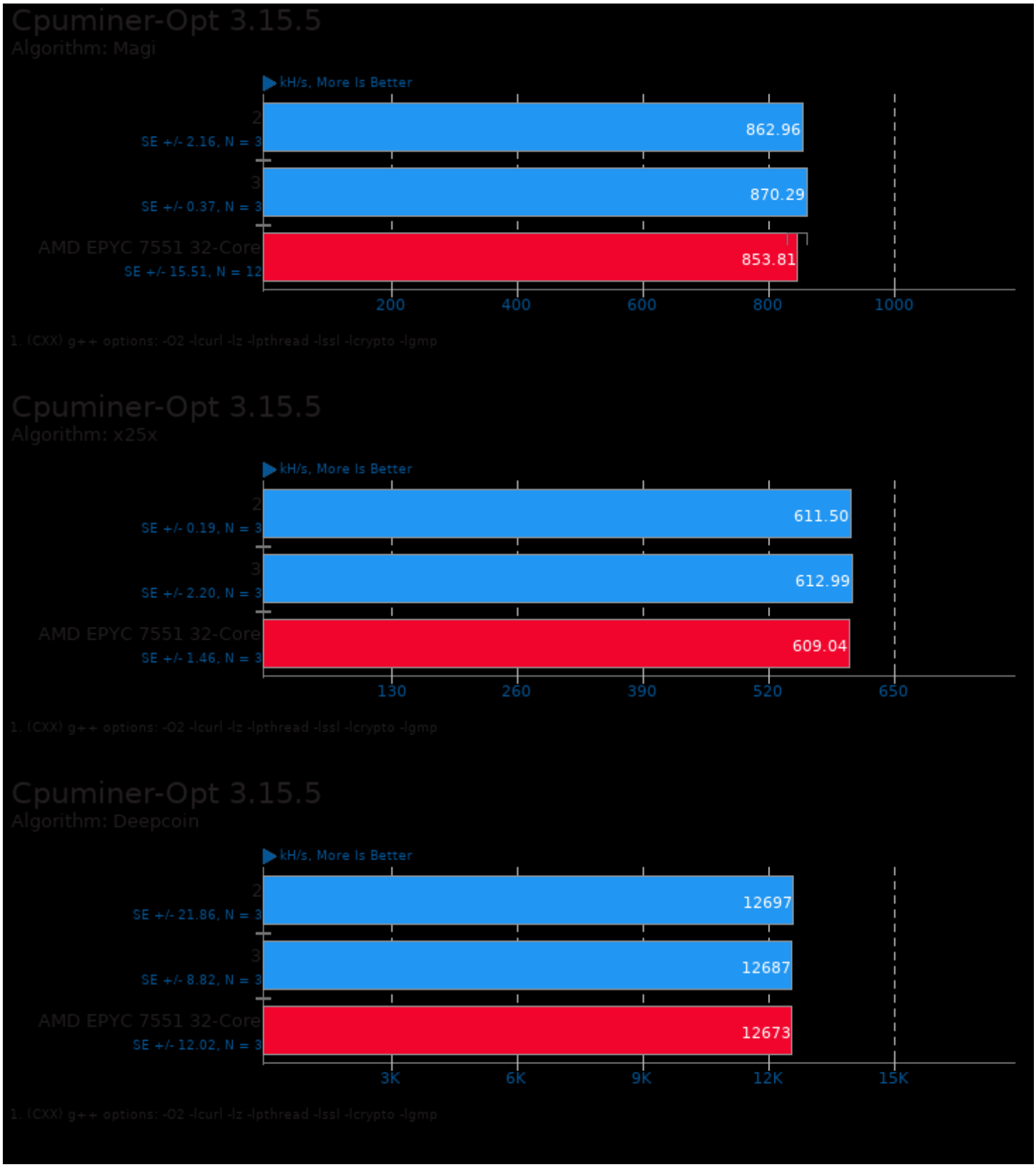
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8001227
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 Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	AMD EPYC 7551 32-Core	2	3
Cpuminer-Opt - Magi (kH/s)	**853.81**	862.96	**870.29**
Normalized	98.11%	99.16%	100%
Standard Deviation	6.3%	0.4%	0.1%
Cpuminer-Opt - x25x (kH/s)	**609.04**	611.50	**612.99**
Normalized	99.36%	99.76%	100%
Standard Deviation	0.4%	0.1%	0.6%
Cpuminer-Opt - Deepcoin (kH/s)	**12673**	**12697**	12687
Normalized	99.81%	100%	99.92%
Standard Deviation	0.2%	0.3%	0.1%
Cpuminer-Opt - Ringcoin (kH/s)	**2653**	2576	**2491**
Normalized	100%	97.11%	93.89%
Standard Deviation	2.2%	2.3%	0.5%
Cpuminer-Opt - Blake-2 S (kH/s)	303753	**301500**	**305037**
Normalized	99.58%	98.84%	100%
Standard Deviation	0.5%	2%	1.4%
Cpuminer-Opt - Garlicoin (kH/s)	3389	**3391**	**3387**
Normalized	99.93%	100%	99.87%
Standard Deviation	0.5%	0.5%	0.1%
Cpuminer-Opt - Skeincoin (kH/s)	**83087**	**80293**	83061
Normalized	100%	96.64%	99.97%
Standard Deviation	1.5%	0.9%	3.3%
Cpuminer-Opt - Myriad-Groestl (kH/s)	**7177**	**7216**	7196
Normalized	99.45%	100%	99.72%
Standard Deviation	0.6%	0.9%	0.6%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	31030	**31546**	**30907**
Normalized	98.36%	100%	97.97%
Standard Deviation	0.2%	3.4%	0.4%
Cpuminer-Opt - Q.S.2.P (kH/s)	**104427**	**106347**	104830
Normalized	98.19%	100%	98.57%
Standard Deviation	2.2%	0.6%	1.5%
Cpuminer-Opt - T.S.2.O (kH/s)	**130063**	130327	**130723**

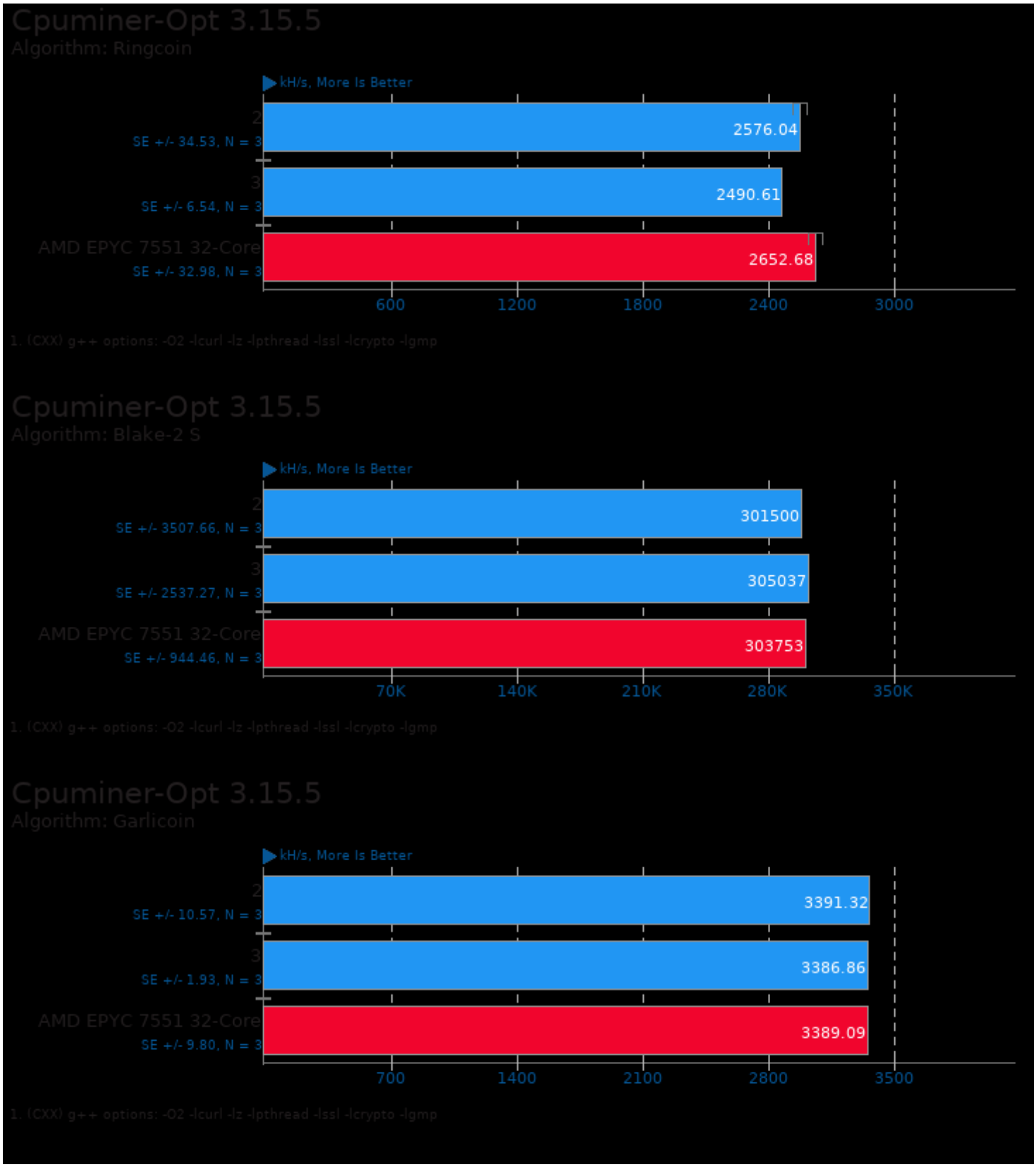
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Normalized	99.5%	99.7%	100%
Standard Deviation	1.7%	1.6%	1.3%

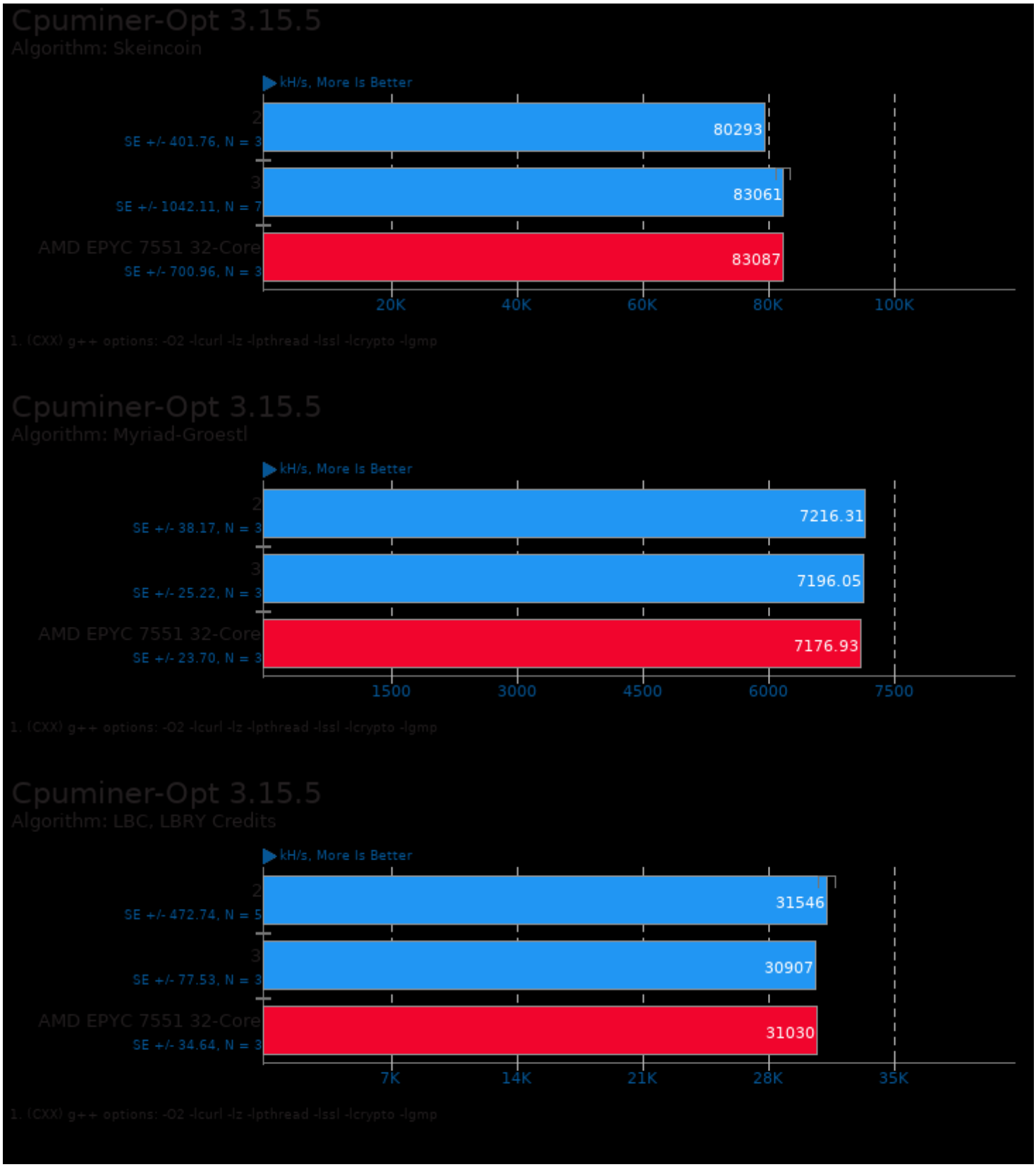
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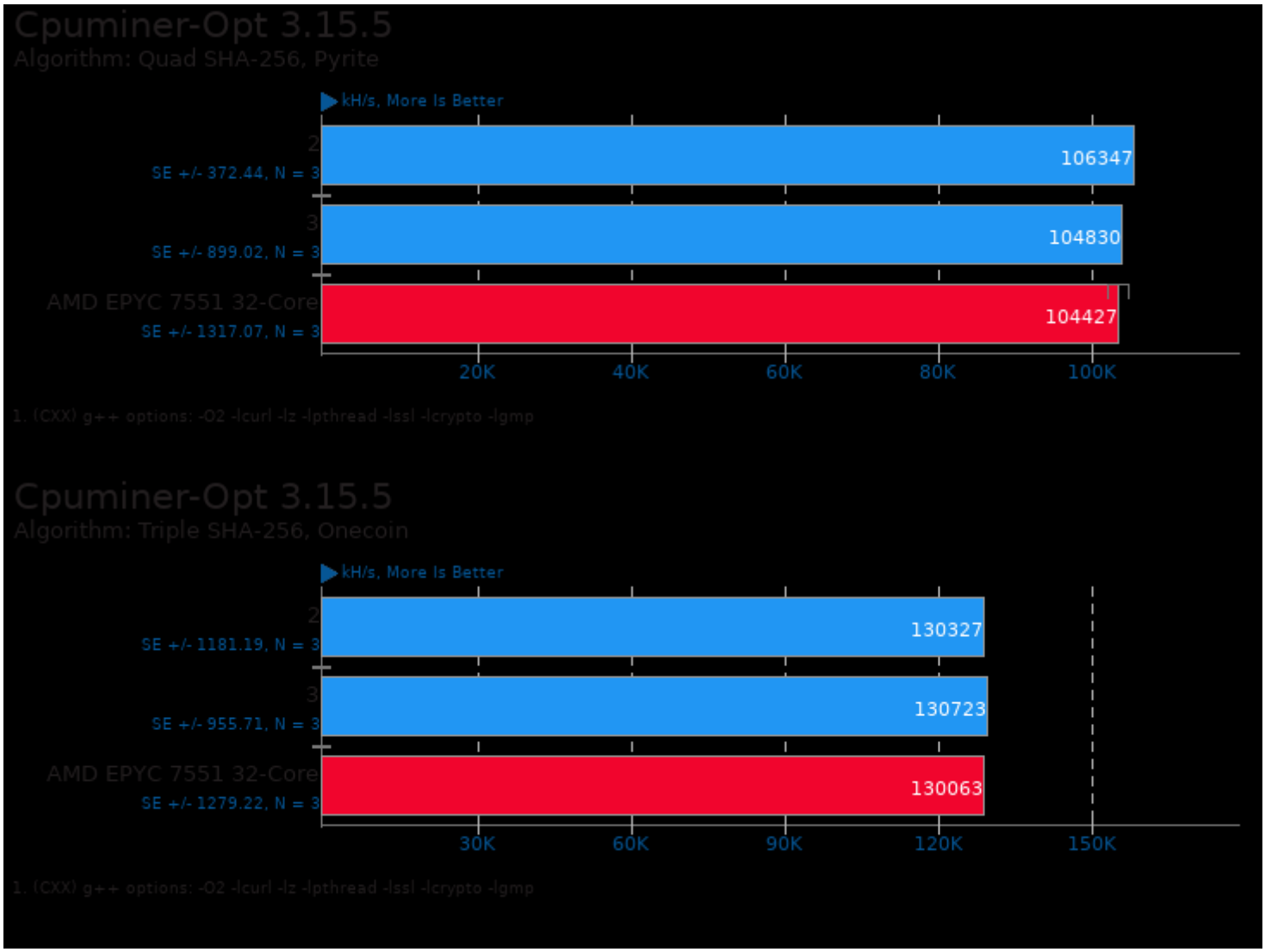
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