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kaby-okt

Intel Core i7-8550U testing with a Dell 0H0VG3 (1.10.0 BIOS) and Intel UHD 620 KBL GT2 3GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

4 had the most wins, coming in first place for 53% of the tests.

Based on the geometric mean of all complete results, the fastest (4) was 1.011x the speed of the slowest (1). 2 was 0.996x the speed of 4, 3 was 0.999x the speed of 2, 1a was 0.998x the speed of 3, 1 was 0.996x the speed of 1a.

Test Systems:

1

1a

2

3

4

Processor: Intel Core i7-8550U @ 4.00GHz (4 Cores / 8 Threads), Motherboard: Dell 0H0VG3 (1.10.0 BIOS), Chipset: Intel Xeon E3-1200 v6/7th, Memory: 8GB, Disk: PM961 NVMe SAMSUNG 256GB, Graphics: Intel UHD 620 KBL GT2 3GB (1150MHz), Audio: Realtek ALC3271, Network: Qualcomm Atheros QCA6174 802.11ac

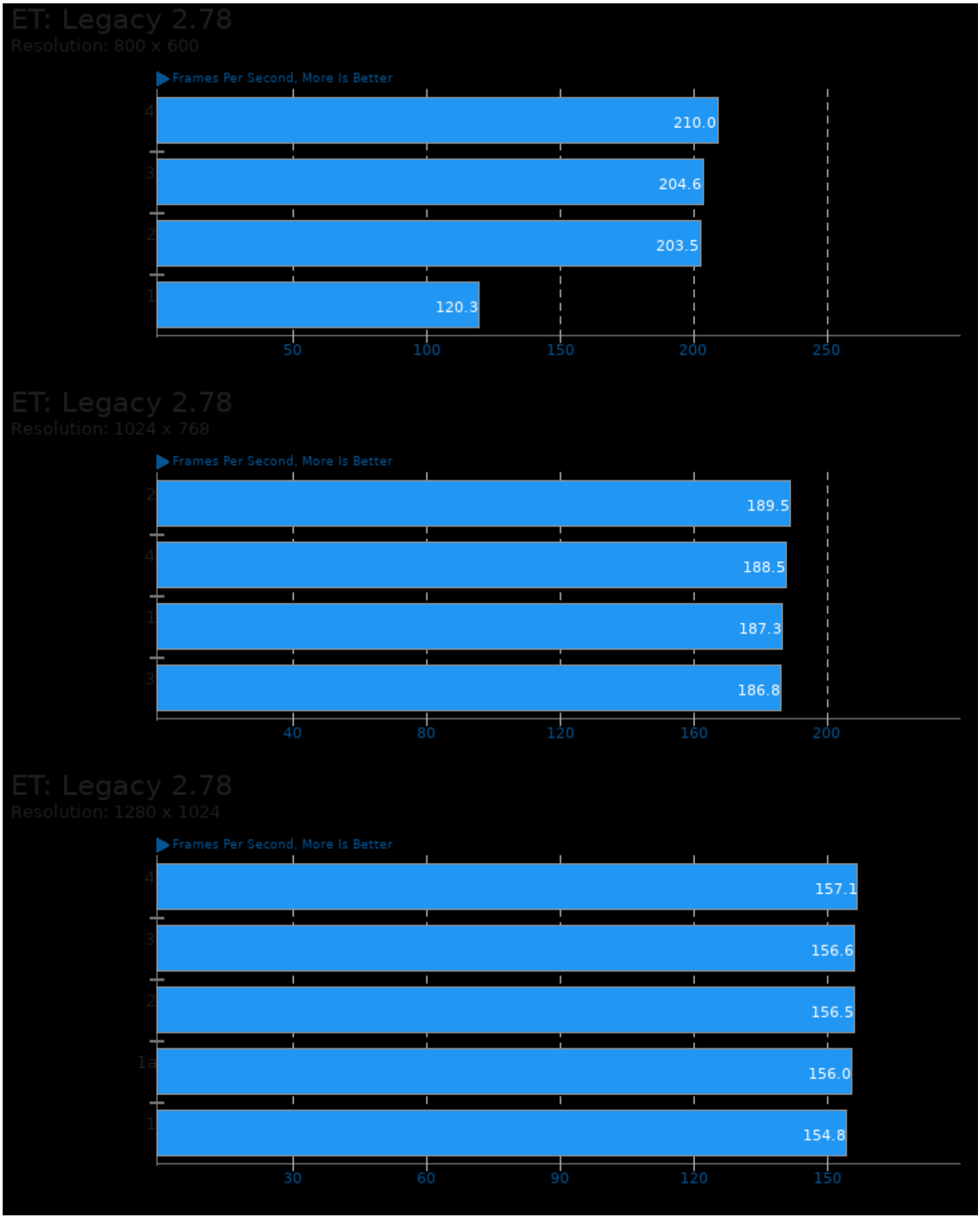
OS: Ubuntu 20.10, Kernel: 5.8.0-63-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6, OpenCL: OpenCL 2.1, Vulkan: 1.2.145, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

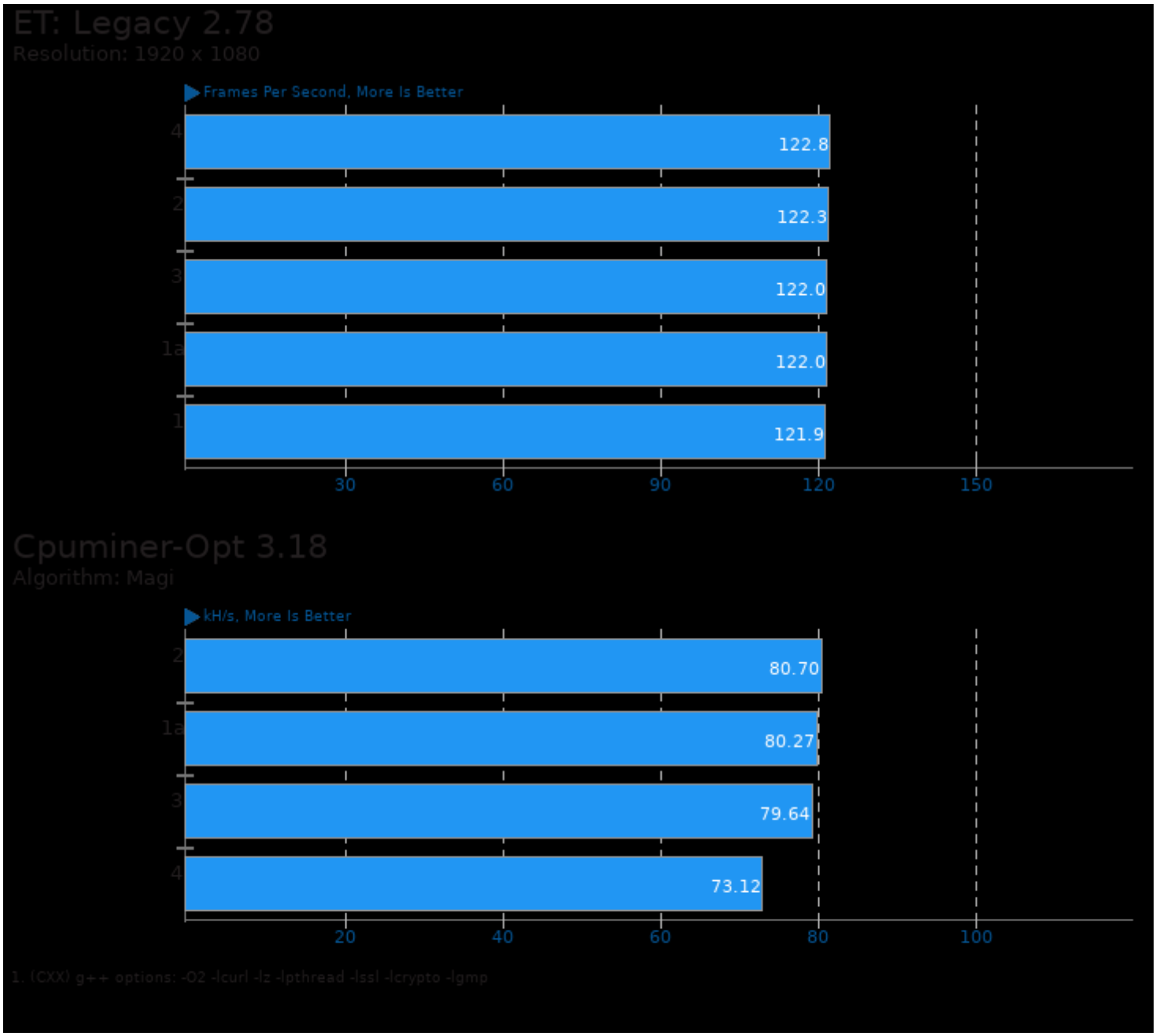
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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-poYruo/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-poYruo/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 - CPU Microcode: 0xea - Thermald 2.3
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + 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: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Not affected

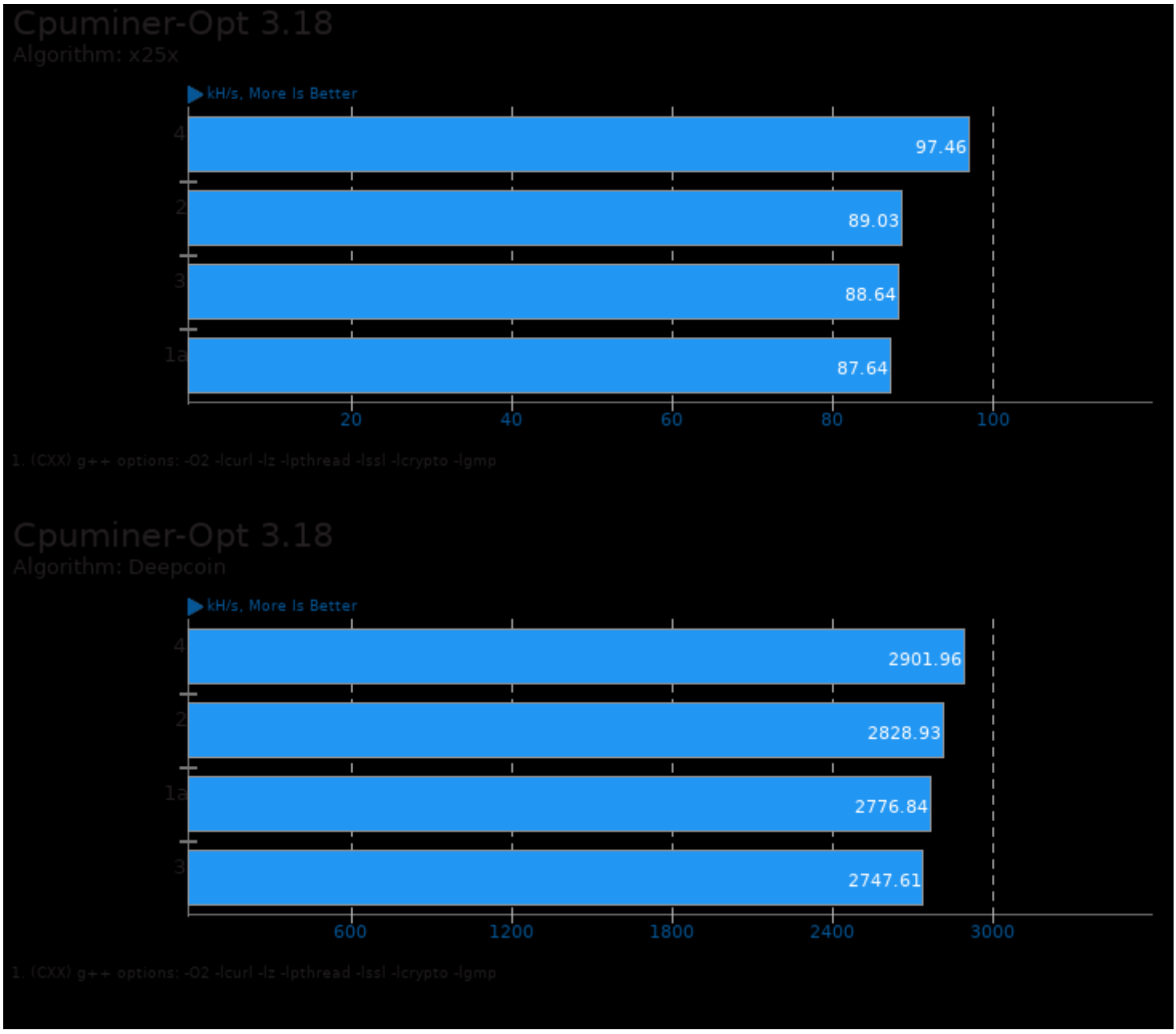
	1	1a	2	3	4
ET: Legacy - 800 x 600 (FPS)	**120.3**		203.5	204.6	**210**
Normalized	57.29%		96.9%	97.43%	100%
ET: Legacy - 1024 x 768 (FPS)	187.3		**189.5**	**186.8**	188.5
Normalized	98.84%		100%	98.58%	99.47%
ET: Legacy - 1280 x 1024 (FPS)	**154.8**	156	156.5	156.6	**157.1**
Normalized	98.54%	99.3%	99.62%	99.68%	100%
ET: Legacy - 1920 x 1080 (FPS)	**121.9**	122	122.3	122	**122.8**
Normalized	99.27%	99.35%	99.59%	99.35%	100%
Cpuminer-Opt - Magi (kH/s)		80.27	**80.7**	79.64	**73.12**
Normalized		99.47%	100%	98.69%	90.61%
Cpuminer-Opt - x25x (kH/s)		**87.64**	89.03	88.64	**97.46**
Normalized		89.92%	91.35%	90.95%	100%
Cpuminer-Opt - Deepcoin (kH/s)		2777	2829	**2748**	**2902**
Normalized		95.69%	97.48%	94.68%	100%
Cpuminer-Opt - Ringcoin (kH/s)		599.08	**611.39**	596.85	**595.58**
Normalized		97.99%	100%	97.62%	97.41%
Cpuminer-Opt - Blake-2 S (kH/s)		98580	**94810**	98270	**99970**
Normalized		98.61%	94.84%	98.3%	100%
Cpuminer-Opt - Garlicoin (kH/s)		726.98	705.01	**734.96**	**704.09**
Normalized		98.91%	95.92%	100%	95.8%
Cpuminer-Opt - Skeincoin (kH/s)		12130	12160	**12110**	**12560**
Normalized		96.58%	96.82%	96.42%	100%

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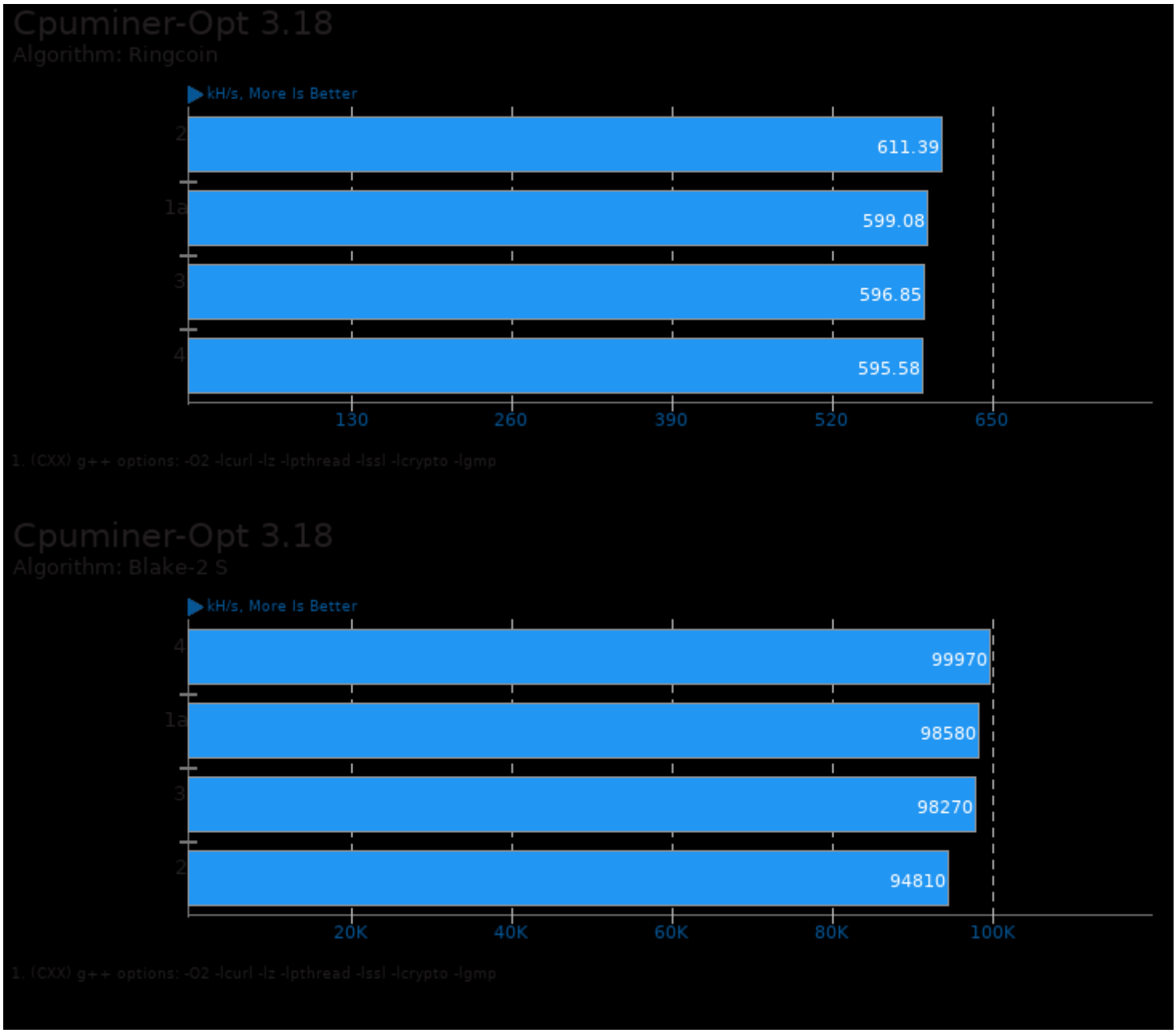
Cpuminer-Opt - Myriad-Groestl (kH/s)	**4049**	3976	**3898**	3924
Normalized	100%	98.2%	96.27%	96.91%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	7810	**7828**	**7478**	7752
Normalized	99.78%	100%	95.53%	99.04%
Cpuminer-Opt - Q.S.2.P (kH/s)	**13610**	14080	13620	**15390**
Normalized	88.43%	91.49%	88.5%	100%
Cpuminer-Opt - T.S.2.O (kH/s)	19590	**19860**	**18940**	19580
Normalized	98.64%	100%	95.37%	98.59%

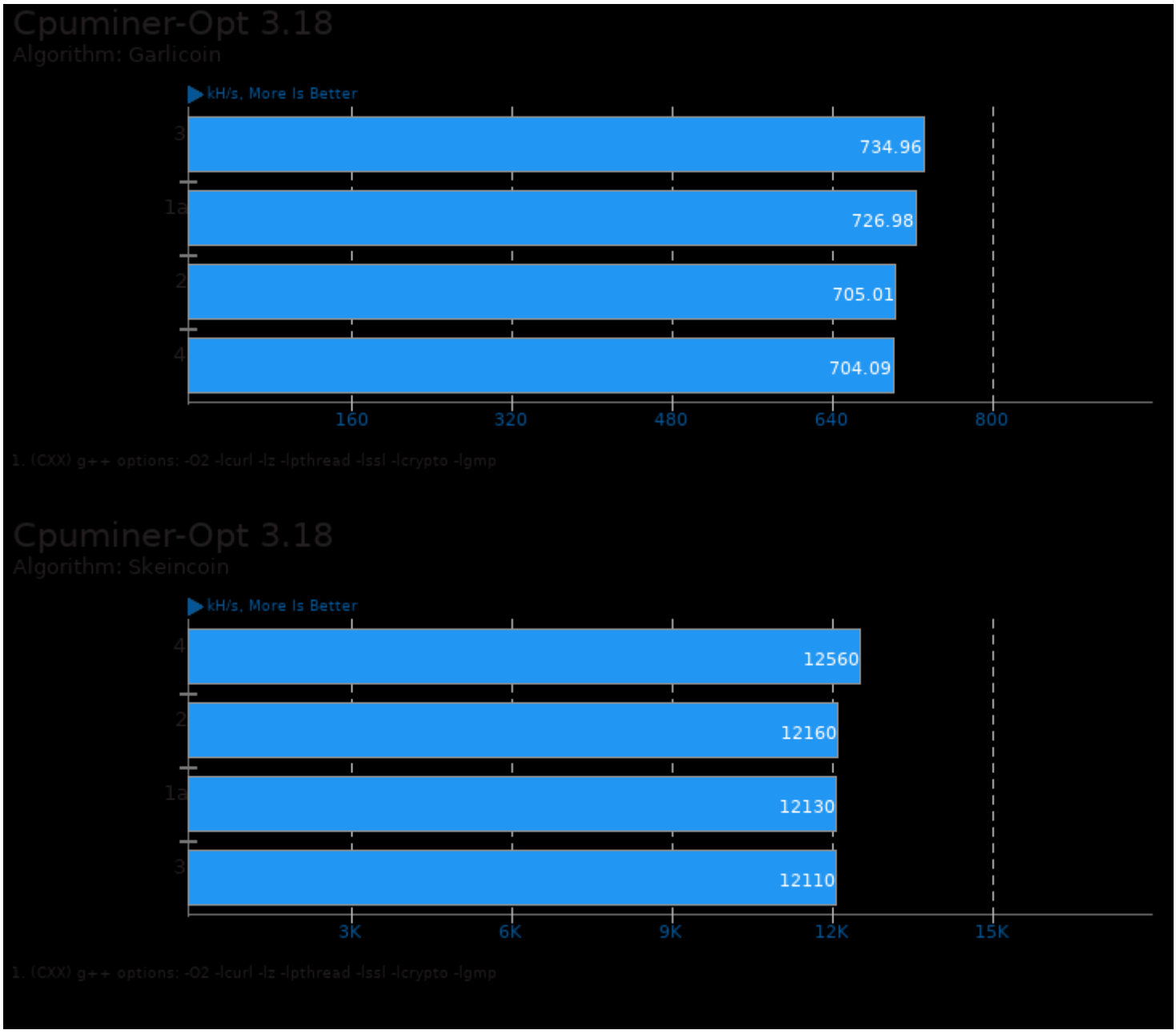

ET: Legacy 2.78
Resolution: 800 x 600
Frames Per Second, More Is Better
4
3
2
1
210.0
204.6
203.5
120.3
50
100
150
200
250
ET: Legacy 2.78
Resolution: 1024 x 768
Frames Per Second, More Is Better
2
4
1
3
189.5
188.5
187.3
186.8
40
80
120
160
200
ET: Legacy 2.78
Resolution: 1280 x 1024
Frames Per Second, More Is Better
4
3
2
1a
1
157.1
156.6
156.5
156.0
154.8
30
60
90
120
150

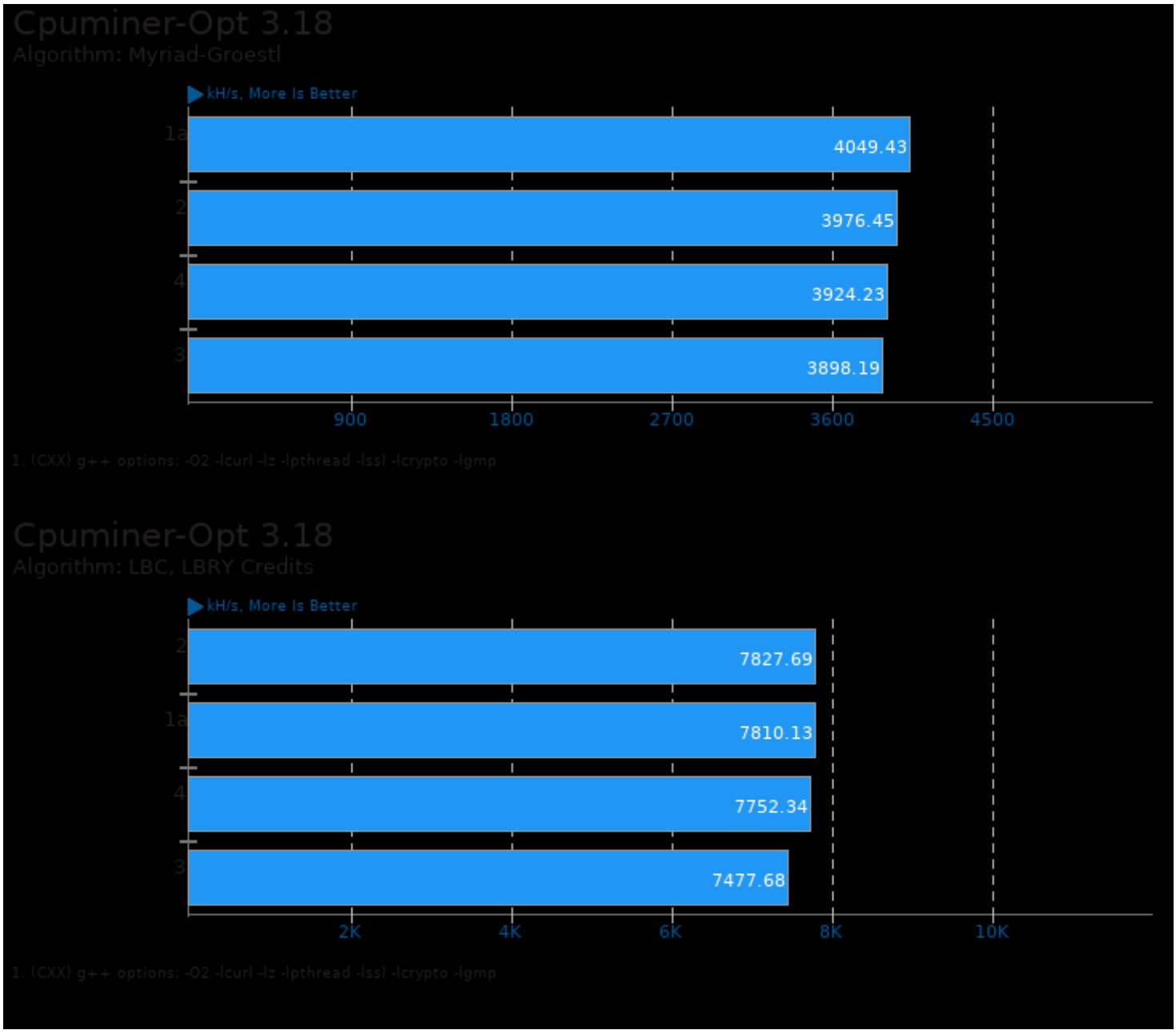

ET: Legacy 2.78
Resolution: 1920 x 1080
Frames Per Second, More Is Better
4
122.8
2
122.3
3
122.0
1a
122.0
1
121.9
30
60
90
120
150
Cpuminer-Opt 3.18
Algorithm: Magi
kH/s, More Is Better
2
80.70
1a
80.27
3
79.64
4
73.12
20
40
60
80
100
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

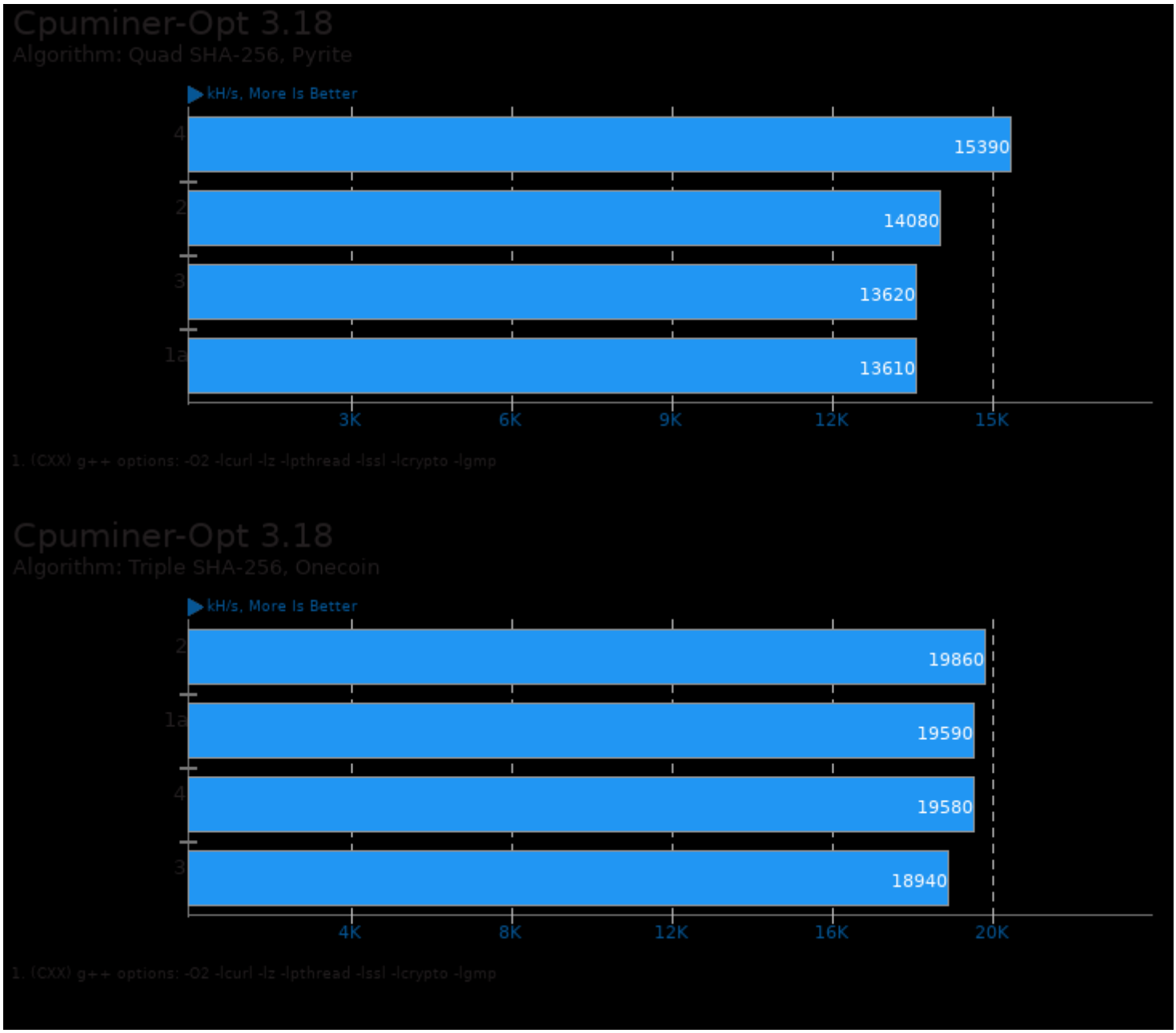

Cpuminer-Opt 3.18
Algorithm: x25x
kH/s, More Is Better
4
2
3
1a
97.46
89.03
88.64
87.64
20
40
60
80
100
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18
Algorithm: Deepcoin
kH/s, More Is Better
4
2
1a
3
2901.96
2828.93
2776.84
2747.61
600
1200
1800
2400
3000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp


Cpuminer-Opt 3.18
Algorithm: Ringcoin
kH/s, More Is Better
2
1a
3
4
611.39
599.08
596.85
595.58
130
260
390
520
650
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Blake-2 S
kH/s, More Is Better
4
1a
3
2
99970
98580
98270
94810
20K
40K
60K
80K
100K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp


Cpuminer-Opt 3.18
Algorithm: Garlicoin
kH/s, More Is Better
3
1a
2
4
734.96
726.98
705.01
704.09
160
320
480
640
800
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Skeincoin
kH/s, More Is Better
4
2
1a
3
12560
12160
12130
12110
3K
6K
9K
12K
15K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp


Cpuminer-Opt 3.18
Algorithm: Myriad-Groestl
kH/s, More Is Better
1a
4049.43
2
3976.45
4
3924.23
3
3898.19
900
1800
2700
3600
4500
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: LBC, LBRY Credits
kH/s, More Is Better
2
7827.69
1a
7810.13
4
7752.34
3
7477.68
2K
4K
6K
8K
10K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:07.