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Intel Core i7-8565U testing with a Dell 0KTW76 (1.11.0 BIOS) and Intel UHD 620 WHL GT2 3GB on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

3 had the most wins, coming in first place for 33% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.108x the speed of the slowest (Intel UHD 620 WHL GT2). 1 was 0.976x the speed of 3, 2 was 0.977x the speed of 1, Intel UHD 620 WHL GT2 was 0.946x the speed of 2.

Test Systems:

1

2

Intel UHD 620 WHL GT2

3

Processor: Intel Core i7-8565U @ 4.60GHz (4 Cores / 8 Threads), Motherboard: Dell 0KTW76 (1.11.0 BIOS), Chipset: Intel Cannon Point-LP, Memory: 16GB, Disk: SK hynix PC401 NVMe 256GB, Graphics: Intel UHD 620 WHL GT2 3GB (1150MHz), Audio: Realtek ALC3271, Network: Qualcomm Atheros QCA6174 802.11ac

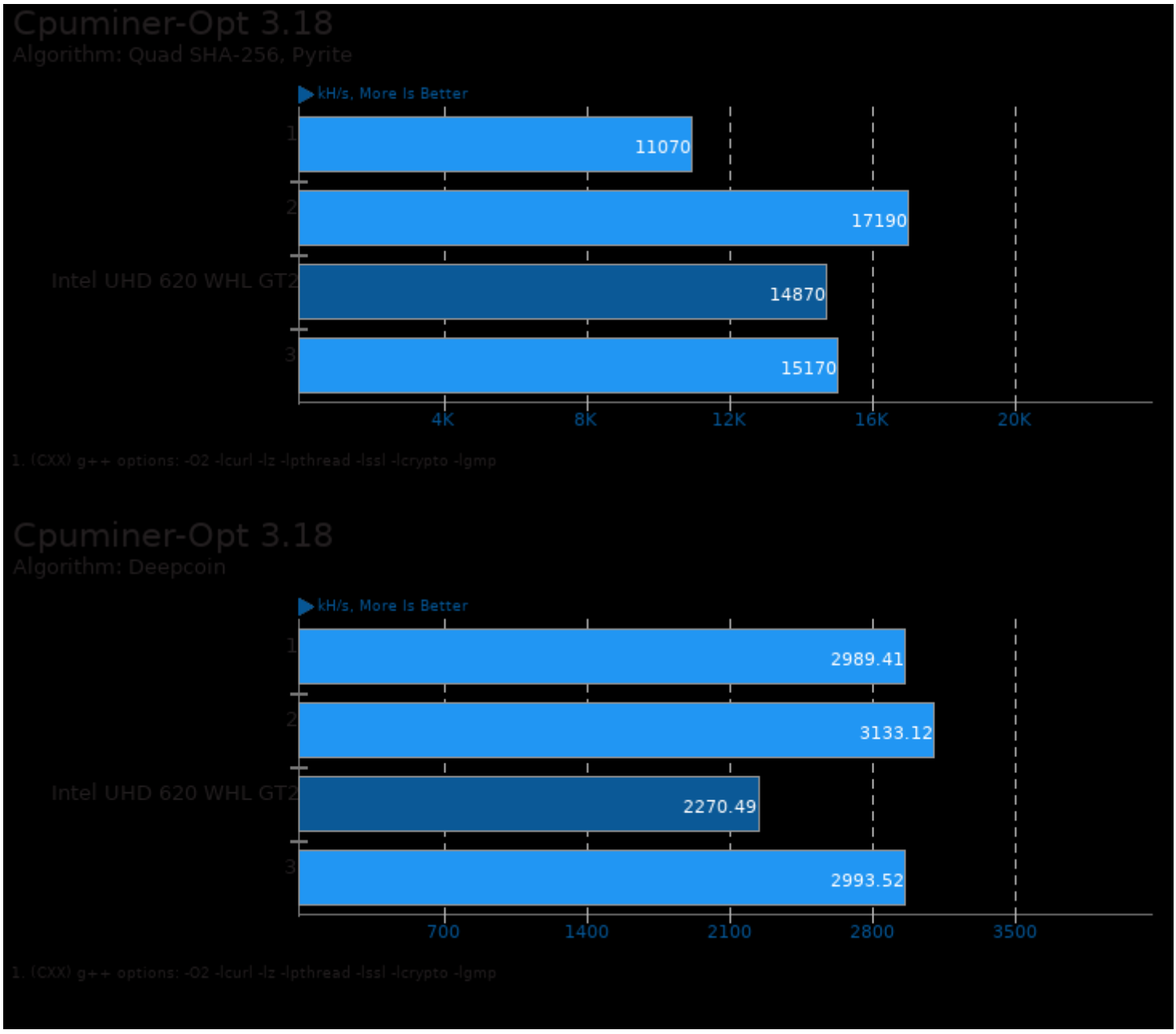
OS: Ubuntu 21.04, Kernel: 5.13.0-051300-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.0-devel (git-0aab06e 2021-07-05 hirsute-oibaf-ppa), Vulkan: 1.2.182, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

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-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/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 2.4.3
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Mitigation of Clear buffers; SMT vulnerable + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Not affected

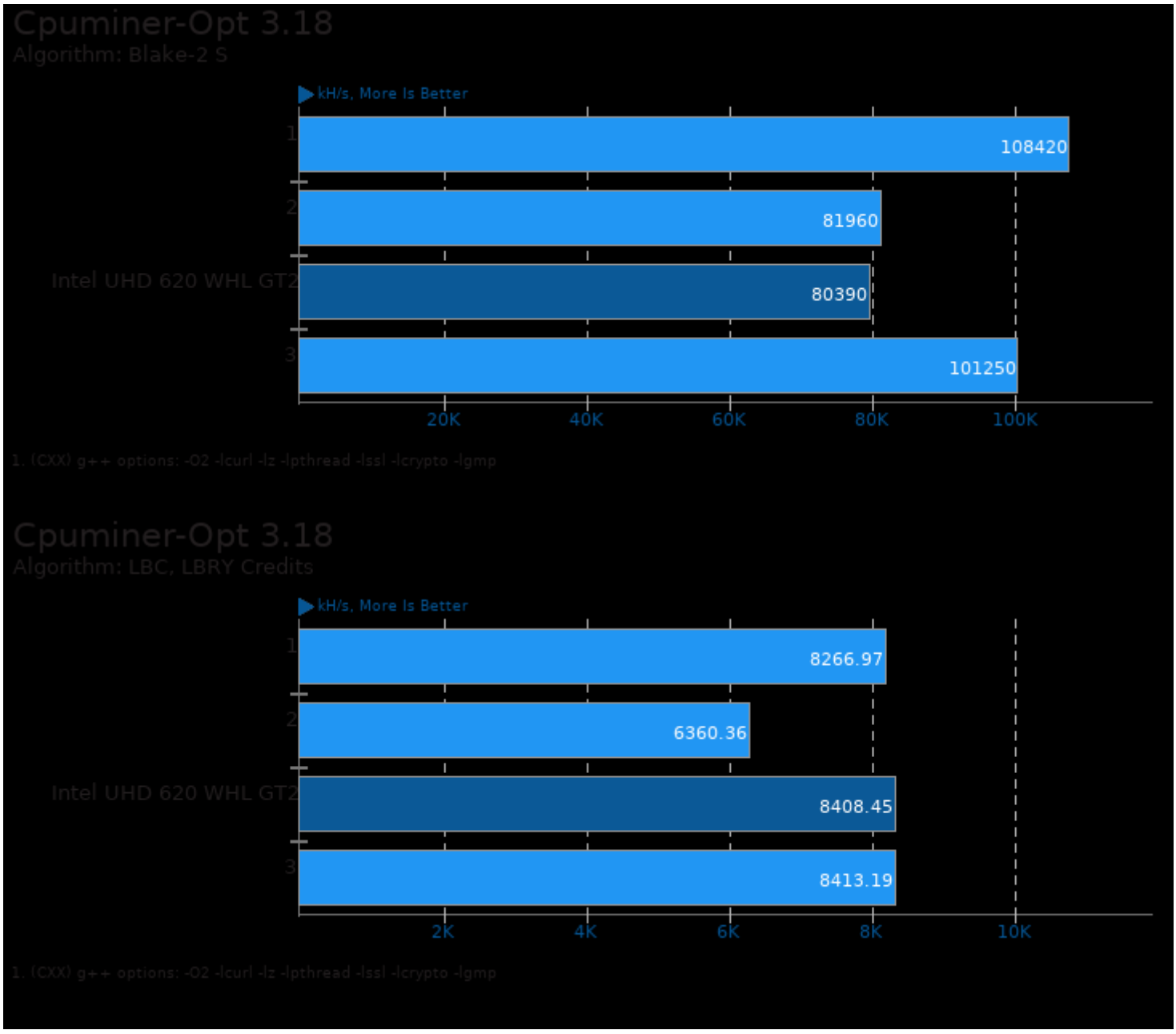
	1	2	Intel UHD 620 WHL GT2	3
Cpuminer-Opt - Q.S.2.P (kH/s)	**11070**	**17190**	14870	15170
Normalized	64.4%	100%	86.5%	88.25%
Cpuminer-Opt - Deepcoin (kH/s)	2989	**3133**	**2270**	2994
Normalized	95.41%	100%	72.47%	95.54%
Cpuminer-Opt - Blake-2 S (kH/s)	**108420**	81960	**80390**	101250
Normalized	100%	75.59%	74.15%	93.39%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	8267	**6360**	8408	**8413**
Normalized	98.26%	75.6%	99.94%	100%
Cpuminer-Opt - Skeincoin (kH/s)	13090	**9931**	**13100**	13090
Normalized	99.92%	75.81%	100%	99.92%
Cpuminer-Opt - Ringcoin (kH/s)	631.08	**641.05**	**487.15**	627.96
Normalized	98.44%	100%	75.99%	97.96%
Cpuminer-Opt - Myriad-Groestl (kH/s)	4285	4299	**3388**	**4456**
Normalized	96.17%	96.47%	76.02%	100%
Cpuminer-Opt - Garlicoin (kH/s)	794.38	778.1	**611.77**	**802.93**
Normalized	98.94%	96.91%	76.19%	100%
Cpuminer-Opt - T.S.2.O (kH/s)	**20580**	21260	**22030**	20620
Normalized	93.42%	96.5%	100%	93.6%
Cpuminer-Opt - Magi (kH/s)	85.8	**87.55**	87.47	**82.56**
Normalized	98%	100%	99.91%	94.3%
ET: Legacy - 800 x 600 (FPS)			**270.5**	**265.1**
Normalized			100%	98%
Cpuminer-Opt - x25x (kH/s)	96.24	96.83	**95.56**	**97.13**
Normalized	99.08%	99.69%	98.38%	100%

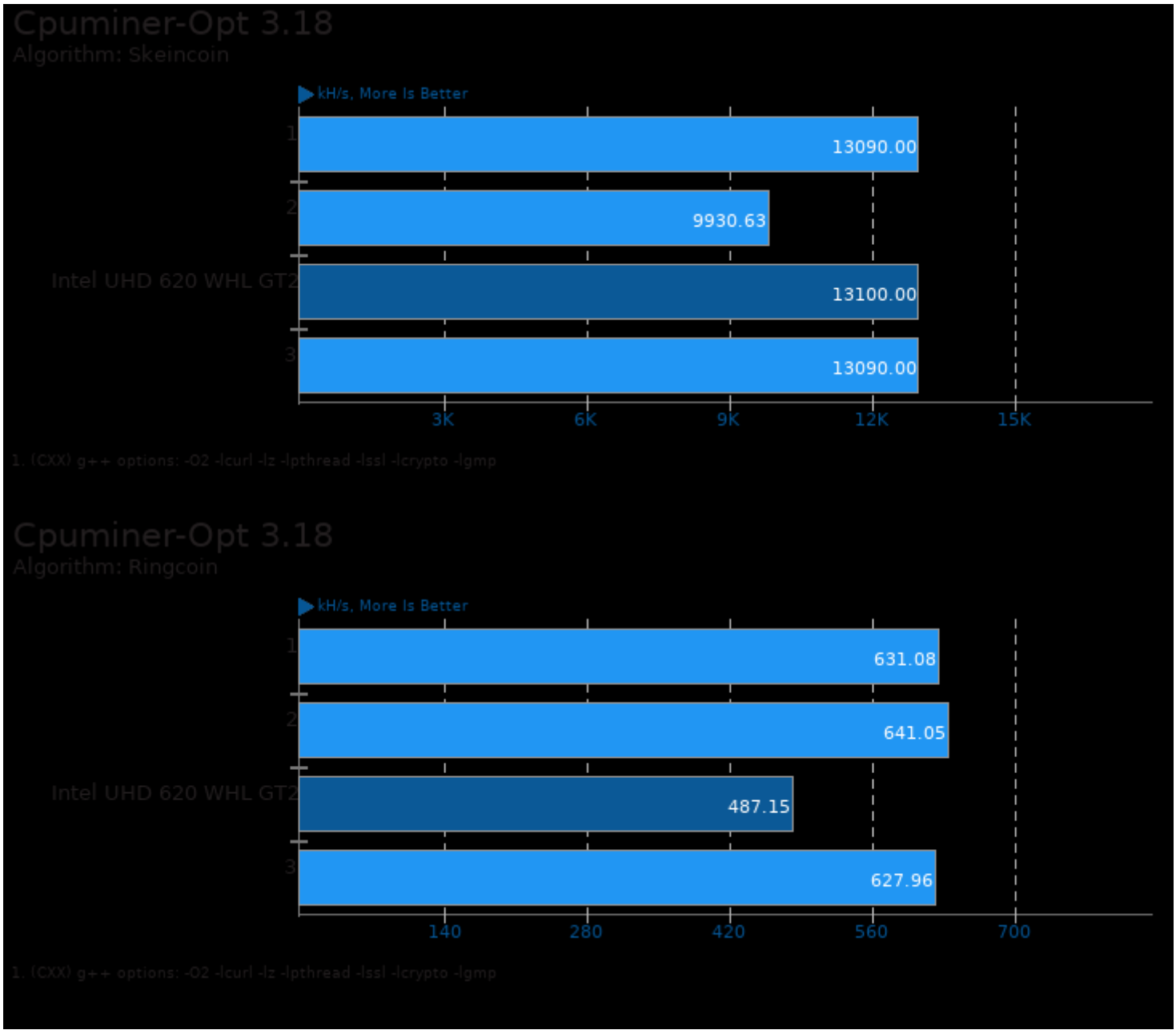
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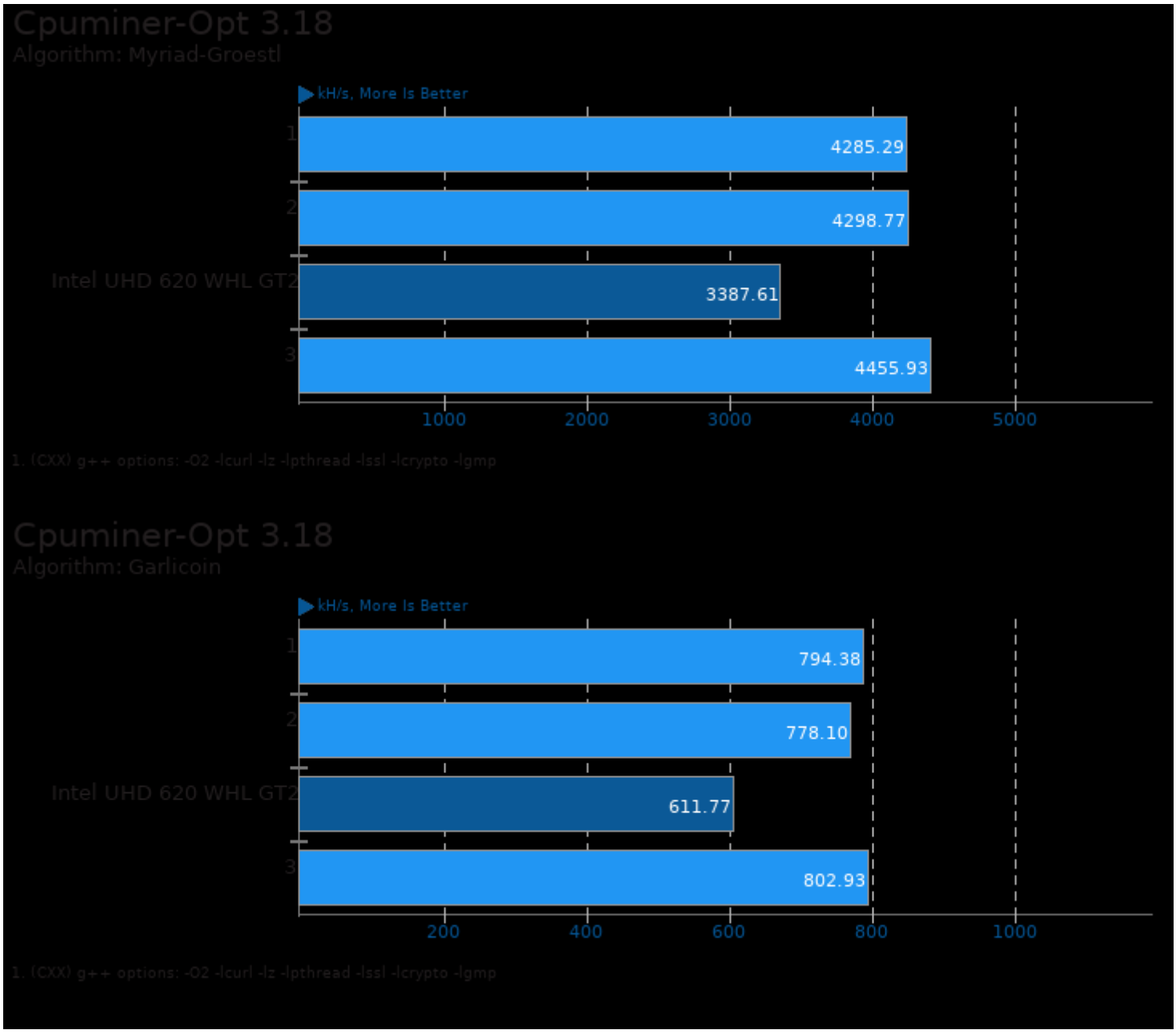
ET: Legacy - 1280 x 1024 (FPS)			202.1	199
Normalized			100%	98.47%
ET: Legacy - 1024 x 768 (FPS)			245	241.7
Normalized			100%	98.65%
ET: Legacy - 1920 x 1080 (FPS)	144.6	143.9	144.2	145.3
Normalized	99.52%	99.04%	99.24%	100%


Cpuminer-Opt 3.18
Algorithm: Quad SHA-256, Pyrite
kH/s, More Is Better
Intel UHD 620 WHL GT2
1
2
3
11070
17190
14870
15170
4K
8K
12K
16K
20K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Deepcoin
kH/s, More Is Better
Intel UHD 620 WHL GT2
1
2
3
2989.41
3133.12
2270.49
2993.52
700
1400
2100
2800
3500
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

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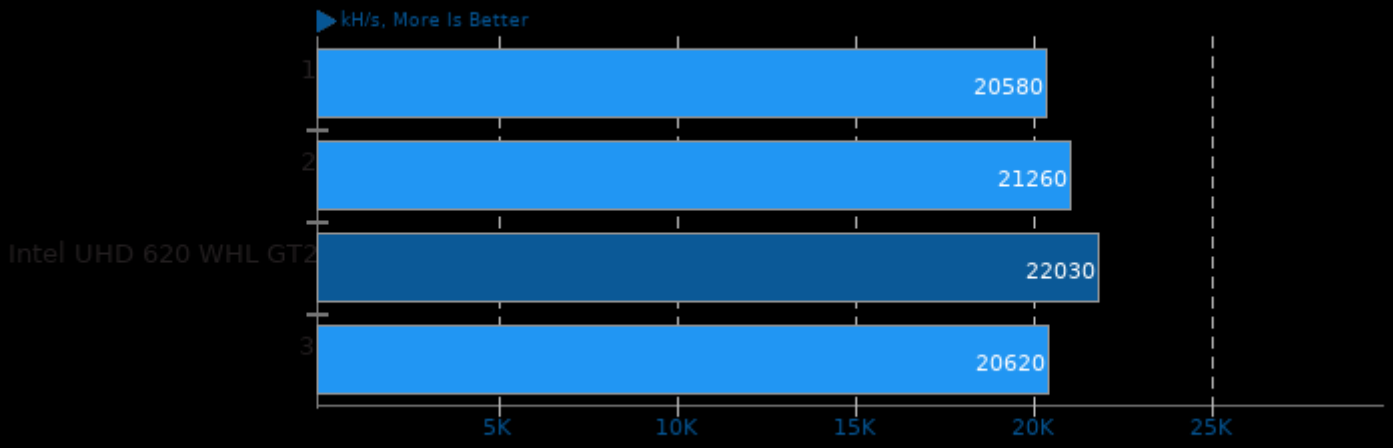

Cpuminer-Opt 3.18
Algorithm: Blake-2 S
kH/s, More Is Better
1
2
Intel UHD 620 WHL GT2
3
108420
81960
80390
101250
20K
40K
60K
80K
100K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: LBC, LBRY Credits
kH/s, More Is Better
1
2
Intel UHD 620 WHL GT2
3
8266.97
6360.36
8408.45
8413.19
2K
4K
6K
8K
10K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp


Cpuminer-Opt 3.18
Algorithm: Skeincoin
kH/s, More Is Better
Intel UHD 620 WHL GT2
1
2
3
13090.00
9930.63
13100.00
13090.00
3K
6K
9K
12K
15K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Ringcoin
kH/s, More Is Better
Intel UHD 620 WHL GT2
1
2
3
631.08
641.05
487.15
627.96
140
280
420
560
700
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp


Cpuminer-Opt 3.18
Algorithm: Myriad-Groestl
kH/s, More Is Better
Intel UHD 620 WHL GT2
1
2
3
4285.29
4298.77
3387.61
4455.93
1000
2000
3000
4000
5000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Garlicoin
kH/s, More Is Better
Intel UHD 620 WHL GT2
1
2
3
794.38
778.10
611.77
802.93
200
400
600
800
1000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

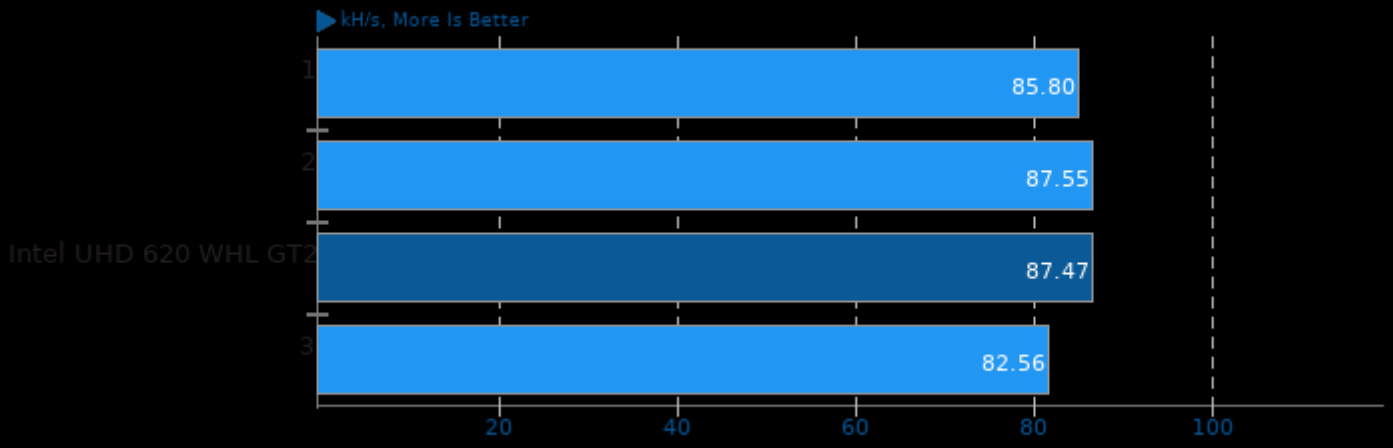
Algorithm: Triple SHA-256, Onecoin



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

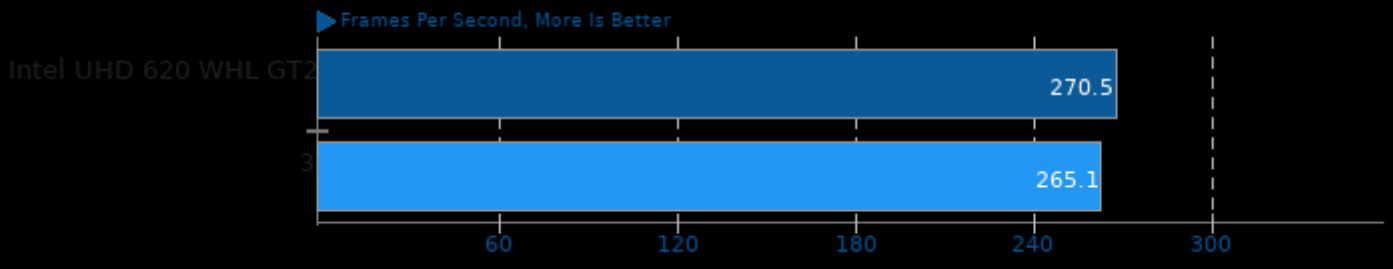
Algorithm: Magi

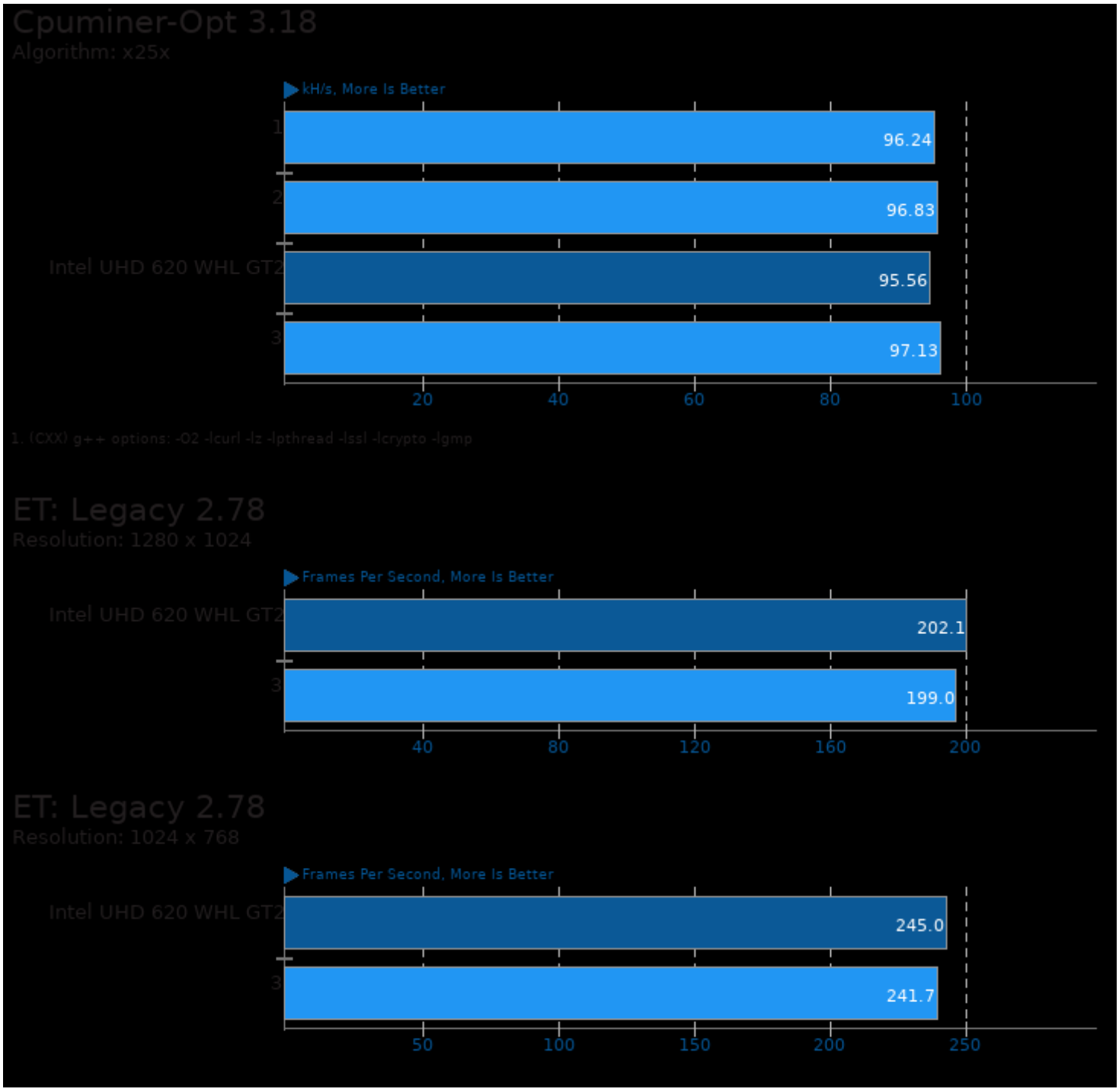


1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

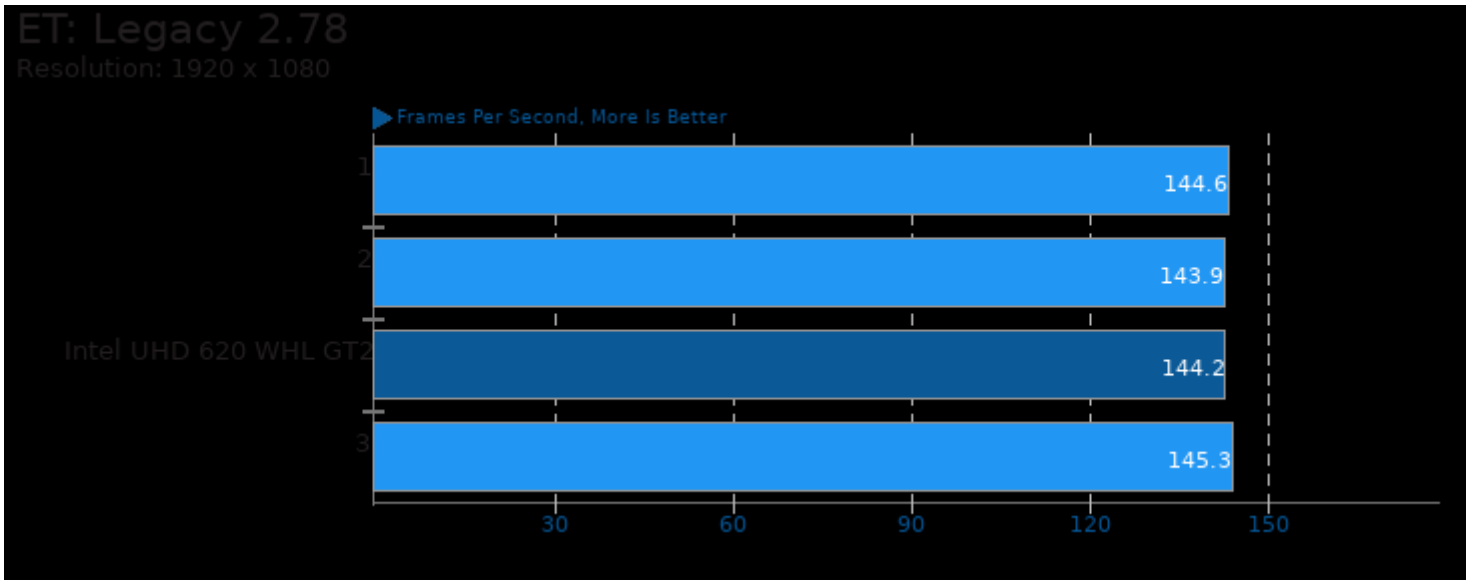
ET: Legacy 2.78

Resolution: 800 x 600




Cpuminer-Opt 3.18
Algorithm: x25x
kH/s, More Is Better
Intel UHD 620 WHL GT2
1
2
3
96.24
96.83
95.56
97.13
20
40
60
80
100
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
ET: Legacy 2.78
Resolution: 1280 x 1024
Frames Per Second, More Is Better
Intel UHD 620 WHL GT2
3
202.1
199.0
40
80
120
160
200
ET: Legacy 2.78
Resolution: 1024 x 768
Frames Per Second, More Is Better
Intel UHD 620 WHL GT2
3
245.0
241.7
50
100
150
200
250

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