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10600k april

Intel Core i5-10600K testing with a ASUS PRIME Z490M-PLUS (1001 BIOS) and ASUS Intel UHD 630 CML GT2 3GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (1) was 1.002x the speed of the slowest (3). 2 was 0.999x the speed of 1 and 3 was 0.998x the speed of 2.

Test Systems:

1

2

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3

Processor: Intel Core i5-10600K @ 4.80GHz (6 Cores / 12 Threads), Motherboard: ASUS PRIME Z490M-PLUS (1001 BIOS), Chipset: Intel Comet Lake PCH, Memory: 32GB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS Intel UHD 630 CML GT2 3GB (1200MHz), Audio: Realtek ALC887-VD, Monitor: LG Ultra HD, Network: Intel

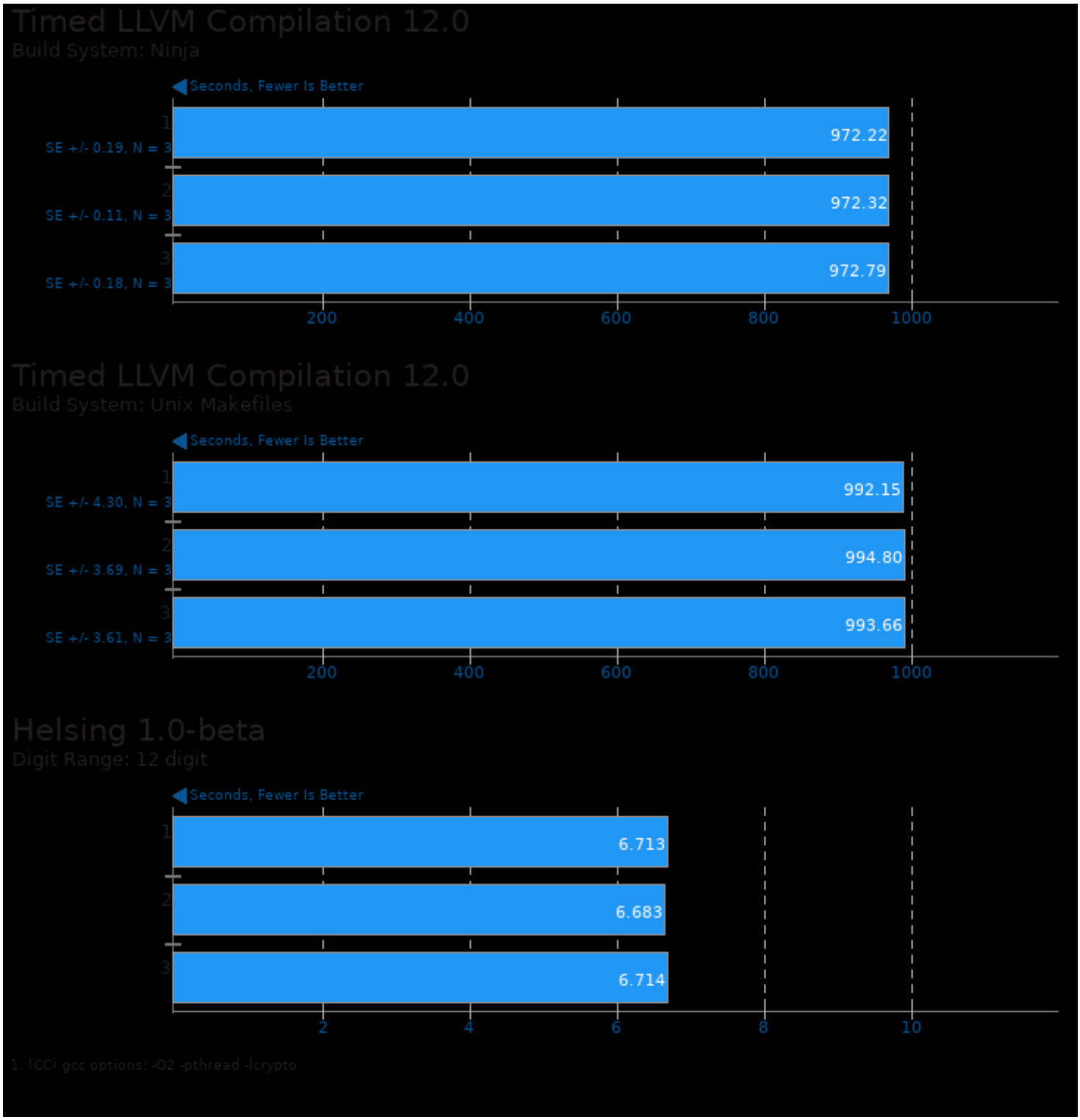
OS: Ubuntu 20.10, Kernel: 5.11.0-051100rc2daily20210106-generic (x86_64) 20210105, Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.1, OpenCL: OpenCL 2.1, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

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: 0xe0 - Thermald 2.3
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + 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
Timed LLVM Compilation - Ninja (sec)	**972.224**	972.324	**972.788**
Normalized	100%	99.99%	99.94%
Standard Deviation	0%	0%	0%
Timed LLVM Compilation - Unix Makefiles	**992.149**	**994.800**	993.658
Normalized	100%	99.73%	99.85%
Standard Deviation	0.8%	0.6%	0.6%
Helsing - 12 digit (sec)	6.713	**6.683**	**6.714**
Normalized	99.55%	100%	99.54%
Helsing - 14 digit (sec)	680.754	**680.642**	**688.108**
Normalized	99.98%	100%	98.91%
SecureMark - SecureMark-TLS (marks)	282524	**282396**	**282666**
Normalized	99.95%	99.9%	100%
Standard Deviation	0.1%	0%	0.1%
KTX-Software toktx - UASTC 3 (sec)	**16.381**	16.383	**16.408**
Normalized	100%	99.99%	99.84%
Standard Deviation	0.1%	0%	0.1%
KTX-Software toktx - Zstd Compression 9	2.443	**2.455**	**2.439**
Normalized	99.84%	99.35%	100%
Standard Deviation	0.7%	0.9%	0.6%
KTX-Software toktx - Z.C.1 (sec)	17.125	**17.167**	**17.080**
Normalized	99.74%	99.49%	100%
Standard Deviation	0.2%	0.6%	0.1%
KTX-Software toktx - U.3.Z.C.1 (sec)	21.385	**21.373**	**21.393**
Normalized	99.94%	100%	99.91%
Standard Deviation	0.2%	0.2%	0.1%
KTX-Software toktx - U.4.Z.C.1 (sec)	**461.021**	461.118	**462.374**
Normalized	100%	99.98%	99.71%
Standard Deviation	0%	0%	0.5%
Google Draco - Lion (ms)	4595	**4588**	**4610**

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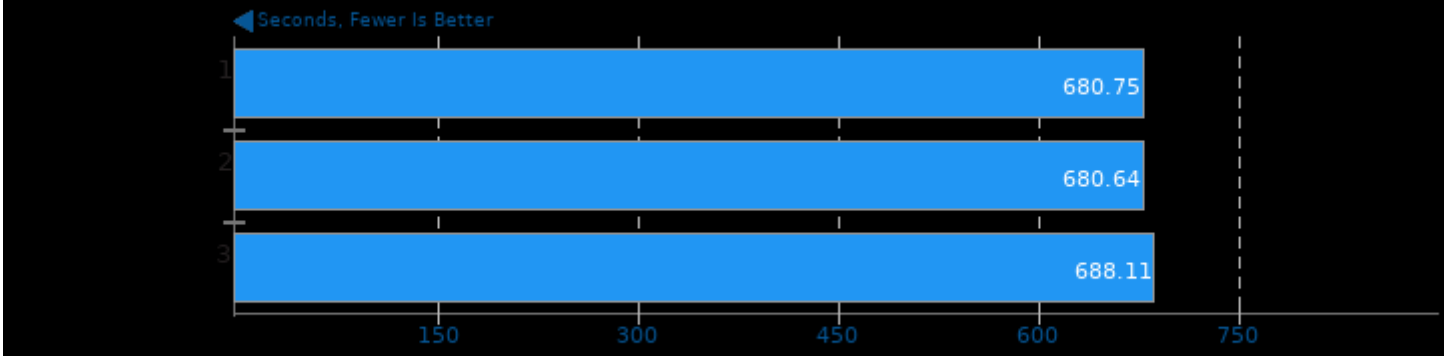
Normalized	99.85%	100%	99.52%
Standard Deviation	0.3%	0.3%	0.2%
Google Draco - Church Facade (ms)	**7104**	7114	**7136**
Normalized	100%	99.86%	99.55%
Standard Deviation	0.1%	0.2%	0.1%


Timed LLVM Compilation 12.0
Build System: Ninja
Seconds, Fewer Is Better
1
SE +/- 0.19, N = 3
972.22
2
SE +/- 0.11, N = 3
972.32
3
SE +/- 0.18, N = 3
972.79
200
400
600
800
1000
Timed LLVM Compilation 12.0
Build System: Unix Makefiles
Seconds, Fewer Is Better
1
SE +/- 4.30, N = 3
992.15
2
SE +/- 3.69, N = 3
994.80
3
SE +/- 3.61, N = 3
993.66
200
400
600
800
1000
Helsing 1.0-beta
Digit Range: 12 digit
Seconds, Fewer Is Better
1
6.713
2
6.683
3
6.714
2
4
6
8
10
1. (CC) gcc options: -O2 -pthread -lcrypto

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Helsing 1.0-beta

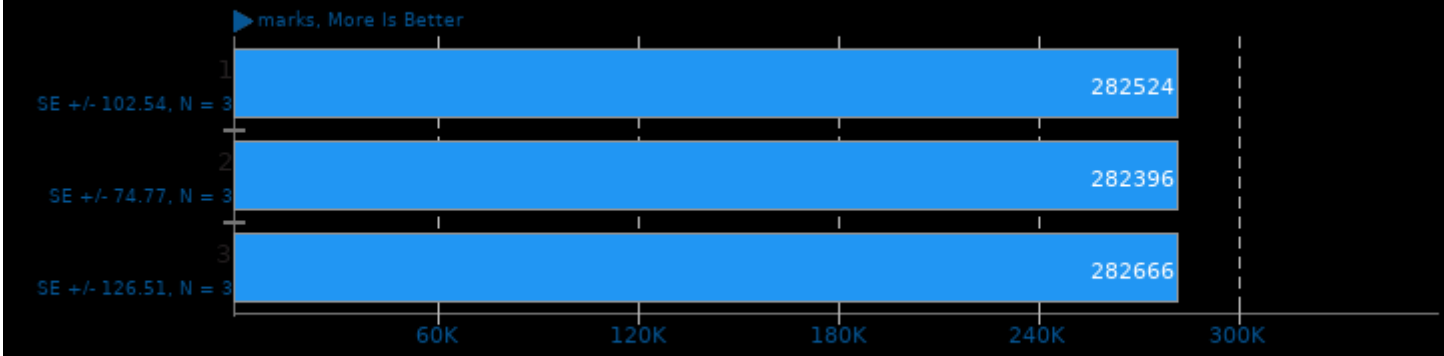
Digit Range: 14 digit



1. (CC) gcc options: -O2 -pthread -lcrypto

SecureMark 1.0.4

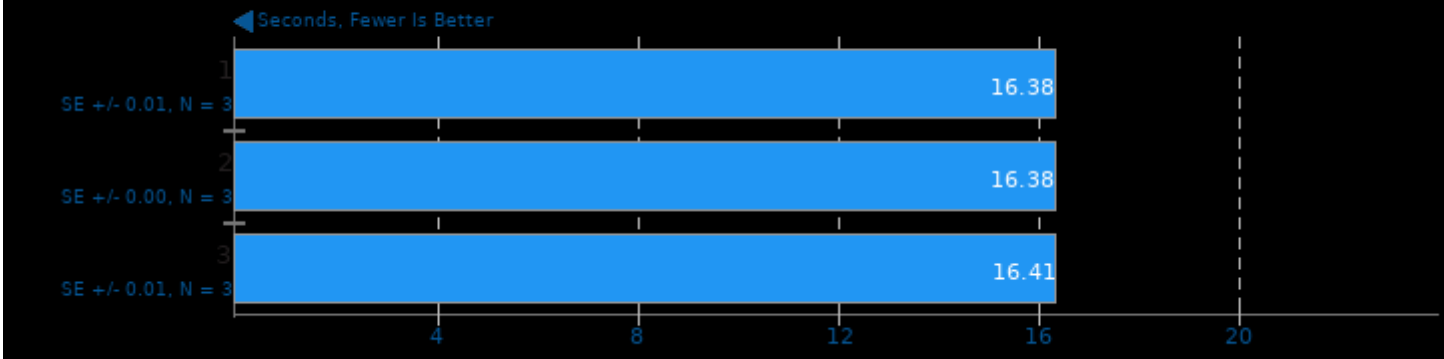
Benchmark: SecureMark-TLS



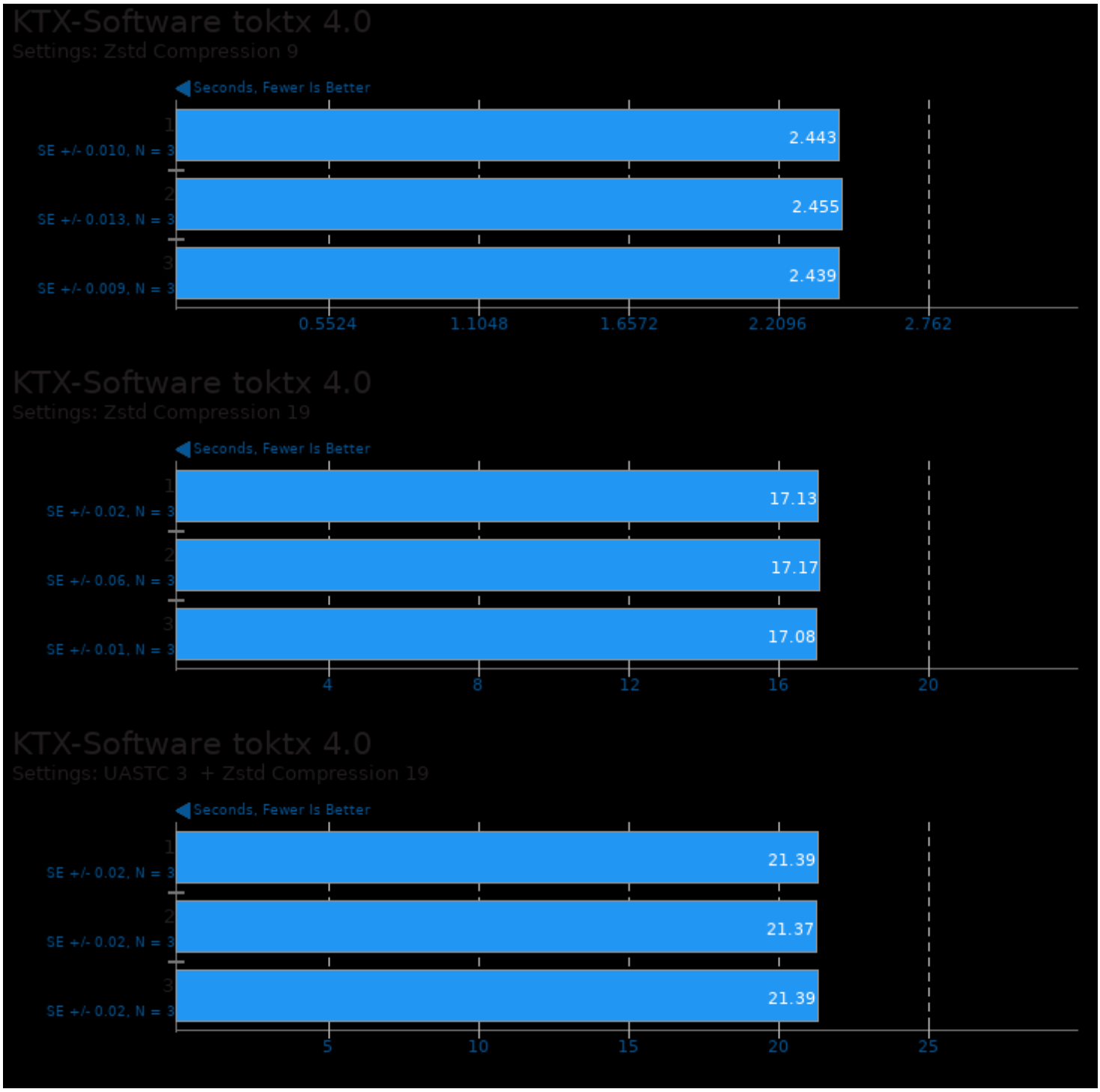
1. (CC) gcc options: -pedantic -O3

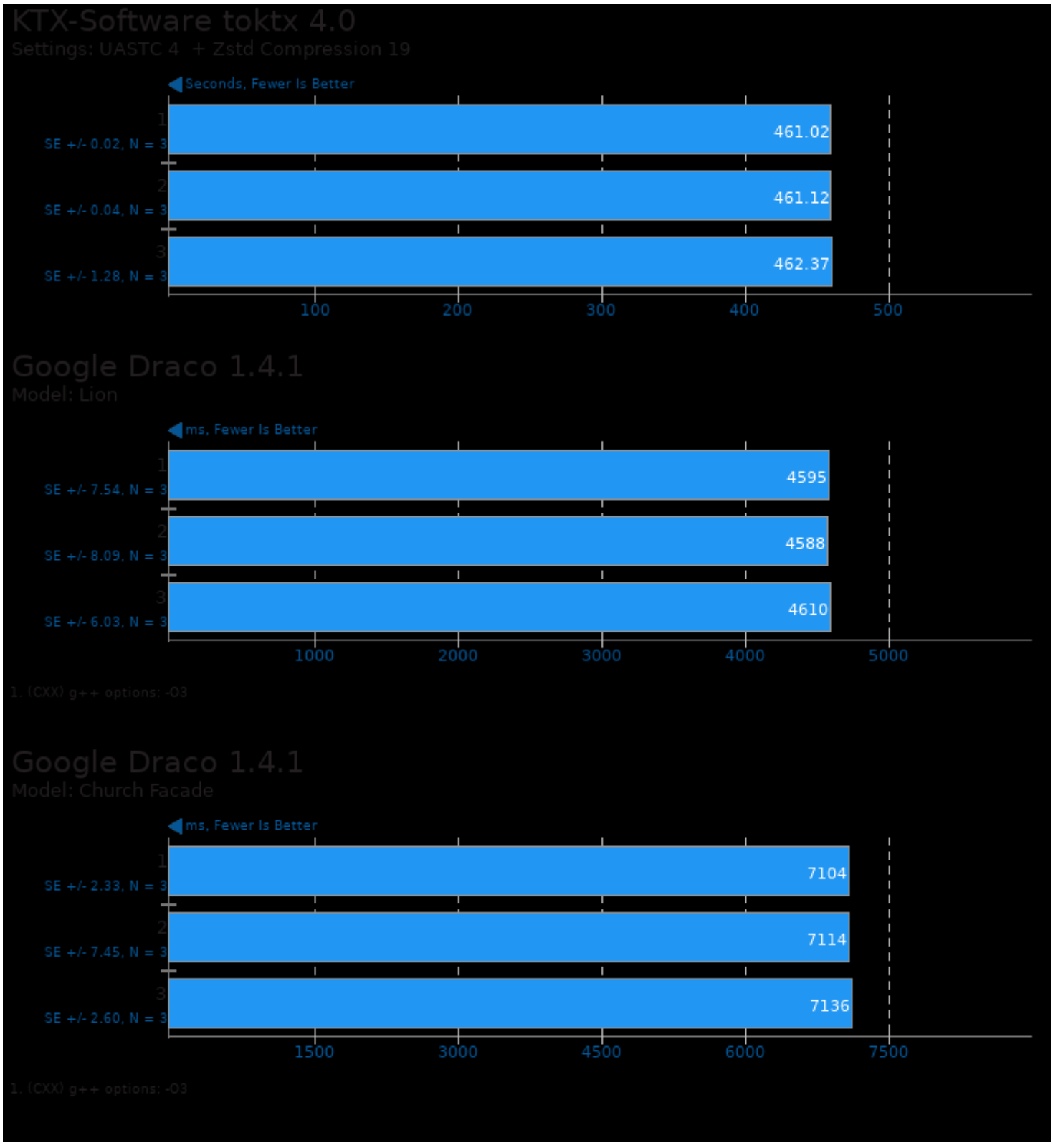
KTX-Software toktx 4.0

Settings: UASTC 3



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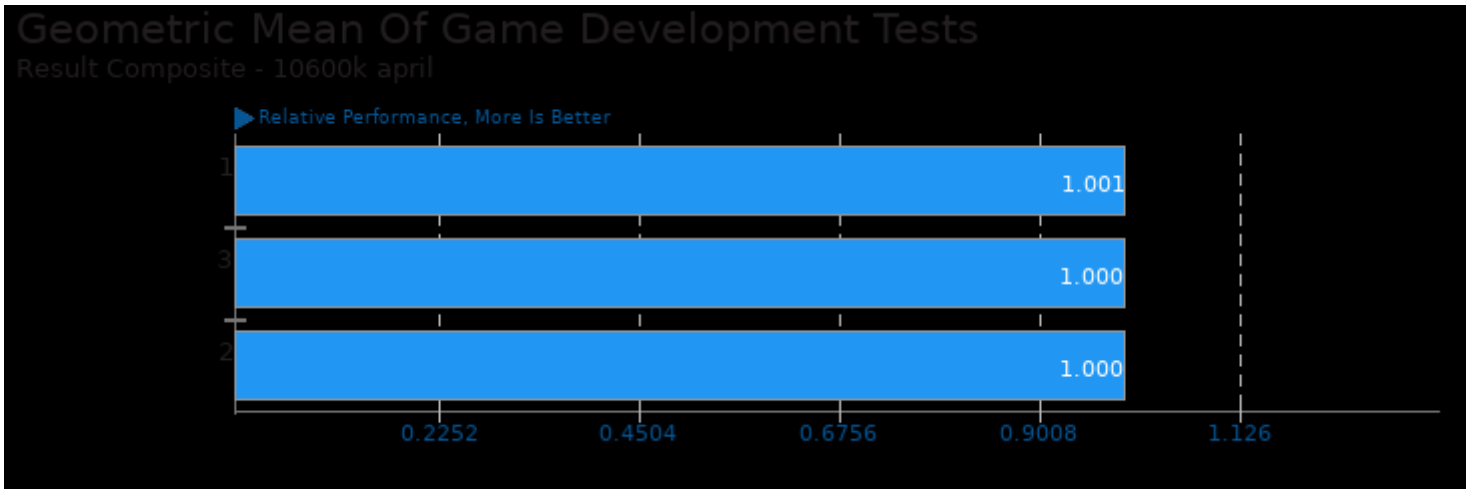

KTX-Software toktx 4.0
Settings: UASTC 4 + Zstd Compression 19
Seconds, Fewer Is Better
1
SE +/- 0.02, N = 3
461.02
2
SE +/- 0.04, N = 3
461.12
3
SE +/- 1.28, N = 3
462.37
100
200
300
400
500
Google Draco 1.4.1
Model: Lion
ms, Fewer Is Better
1
SE +/- 7.54, N = 3
4595
2
SE +/- 8.09, N = 3
4588
3
SE +/- 6.03, N = 3
4610
1000
2000
3000
4000
5000
1. (CXX) g++ options: -O3
Google Draco 1.4.1
Model: Church Facade
ms, Fewer Is Better
1
SE +/- 2.33, N = 3
7104
2
SE +/- 7.45, N = 3
7114
3
SE +/- 2.60, N = 3
7136
1500
3000
4500
6000
7500
1. (CXX) g++ options: -O3

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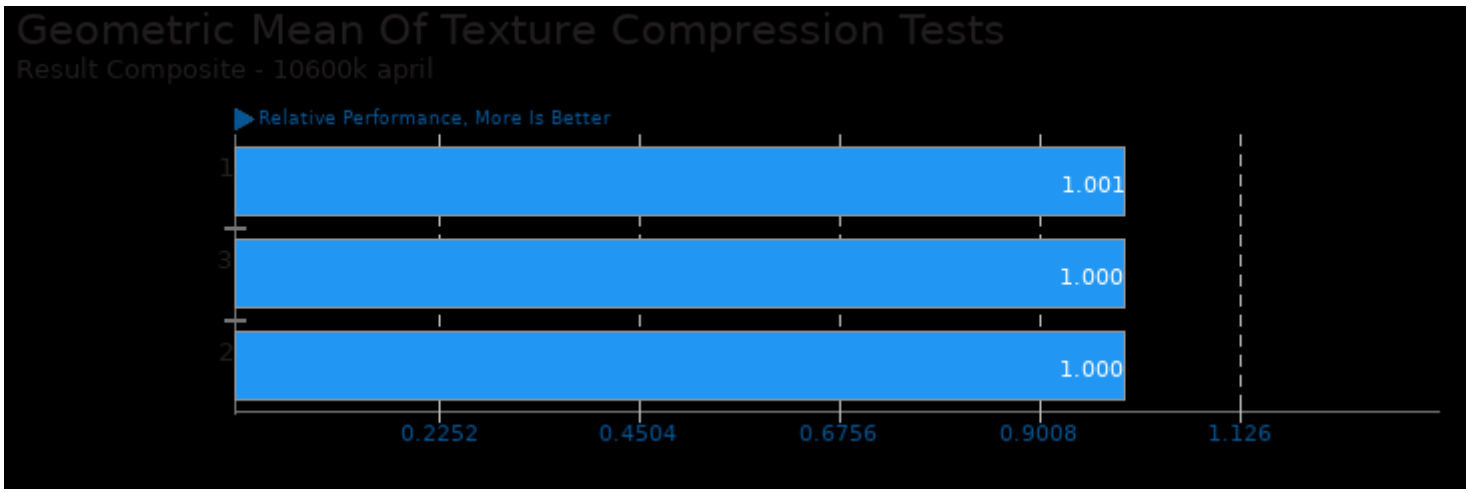
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/toktx and pts/draco



Geometric mean based upon tests: pts/toktx and pts/draco



Geometric mean based upon tests: pts/toktx and pts/draco

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 13:49.