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11900K KTX

Intel Core i9-11900K testing with a ASUS ROG MAXIMUS XIII HERO (0703 BIOS) and AMD Radeon VII 16GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

2 had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.001x the speed of the slowest (3). 1 was 1x the speed of 2 and 3 was 0.999x the speed of 1.

Test Systems:

1

2

3

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0703 BIOS), Chipset: Intel Device 43ef, Memory: 32GB, Disk: 500GB Western Digital WDS500G3X0C-00SJG0, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Device 43c8, Monitor: ASUS MG28U, Network: 2 x Intel + Intel Device 2725

OS: Ubuntu 20.10, Kernel: 5.12.0-051200rc8-generic (x86_64) 20210418, Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6 (LLVM 11.0.0), Vulkan: 1.2.131, 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

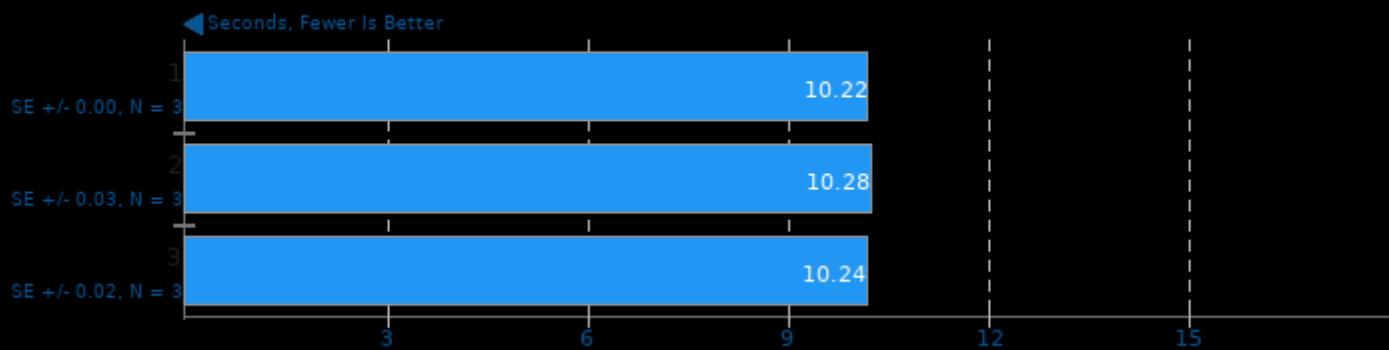
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x3c - ThermalD 2.3

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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected

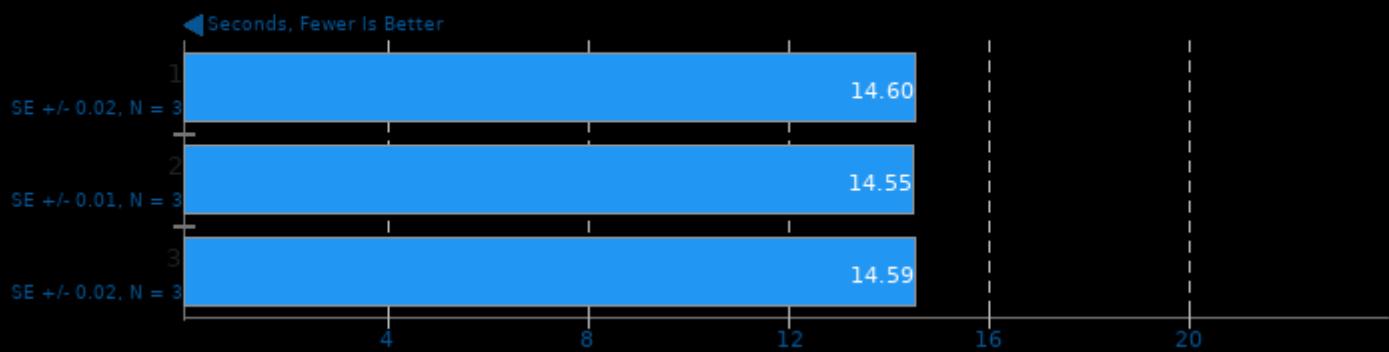
	1	2	3
KTX-Software toktx - UASTC 3 (sec)	10.215	10.278	10.239
Normalized	100%	99.39%	99.77%
Standard Deviation	0.1%	0.5%	0.4%
KTX-Software toktx - Z.C.1 (sec)	14.601	14.551	14.591
Normalized	99.66%	100%	99.73%
Standard Deviation	0.3%	0.1%	0.2%
KTX-Software toktx - U.3.Z.C.1 (sec)	14.420	14.476	14.427
Normalized	100%	99.61%	99.95%
Standard Deviation	0%	0.7%	0%
KTX-Software toktx - U.4.Z.C.1 (sec)	274.648	274.387	274.269
Normalized	99.86%	99.96%	100%
Standard Deviation	0.1%	0.1%	0.1%
Google Draco - Lion (ms)	3553	3548	3569
Normalized	99.86%	100%	99.41%
Standard Deviation	0.3%	0.1%	0.8%
Google Draco - Church Facade (ms)	5162	5161	5188
Normalized	99.98%	100%	99.48%
Standard Deviation	0.4%	0.1%	0.4%

KTX-Software toktx 4.0

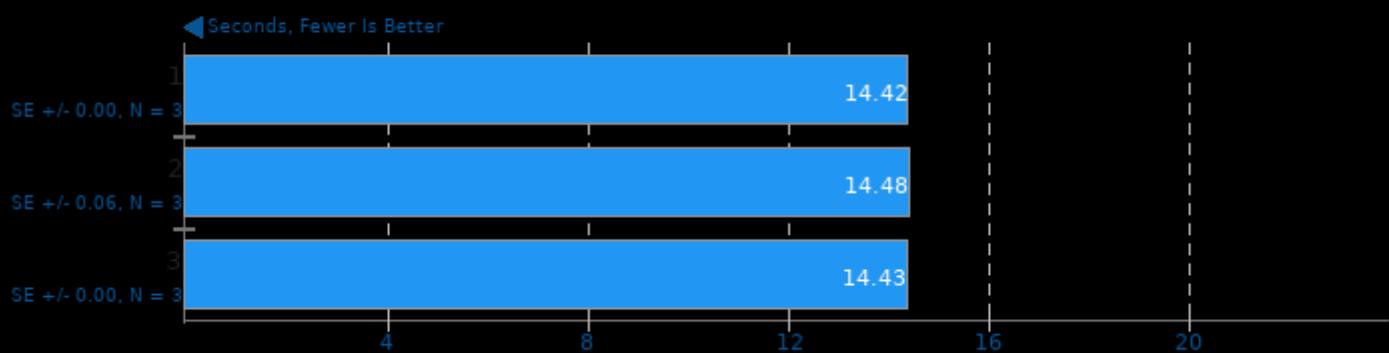
Settings: UASTC 3

**KTX-Software toktx 4.0**

Settings: Zstd Compression 19

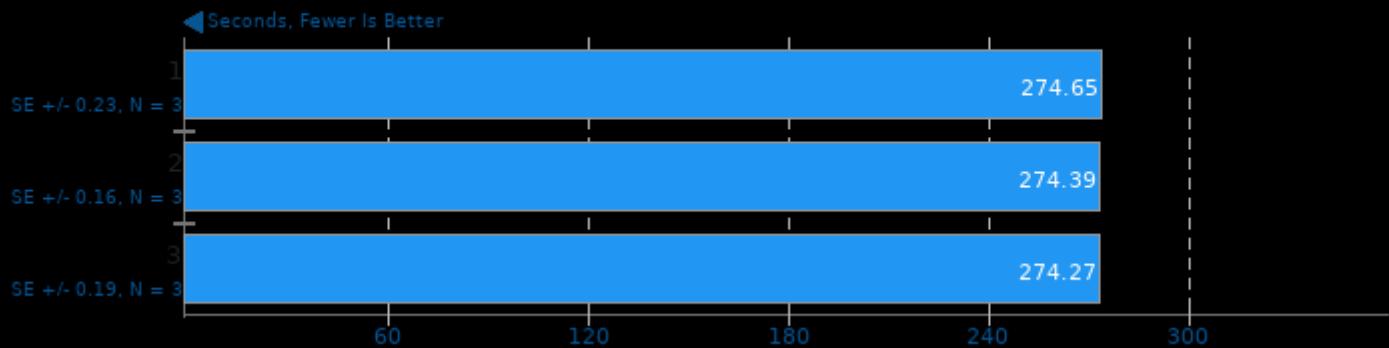
**KTX-Software toktx 4.0**

Settings: UASTC 3 + Zstd Compression 19



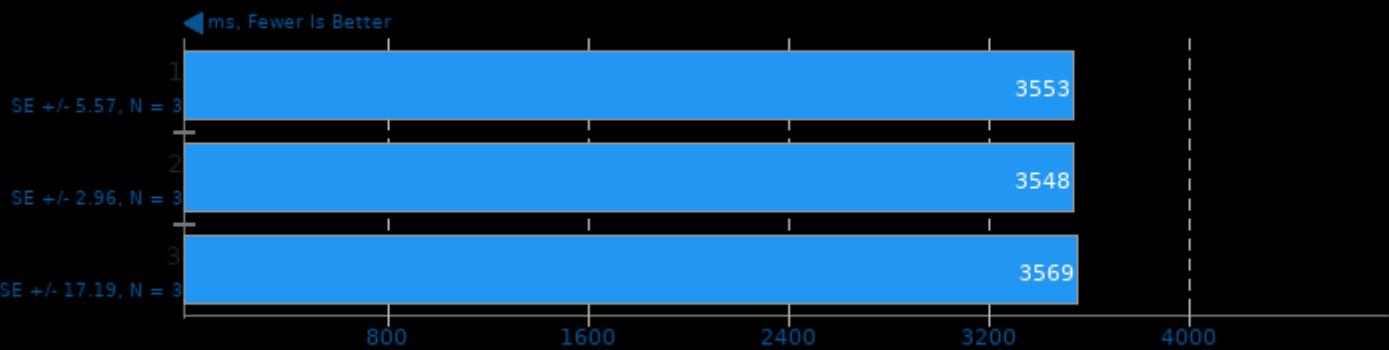
KTX-Software toktx 4.0

Settings: UASTC 4 + Zstd Compression 19



Google Draco 1.4.1

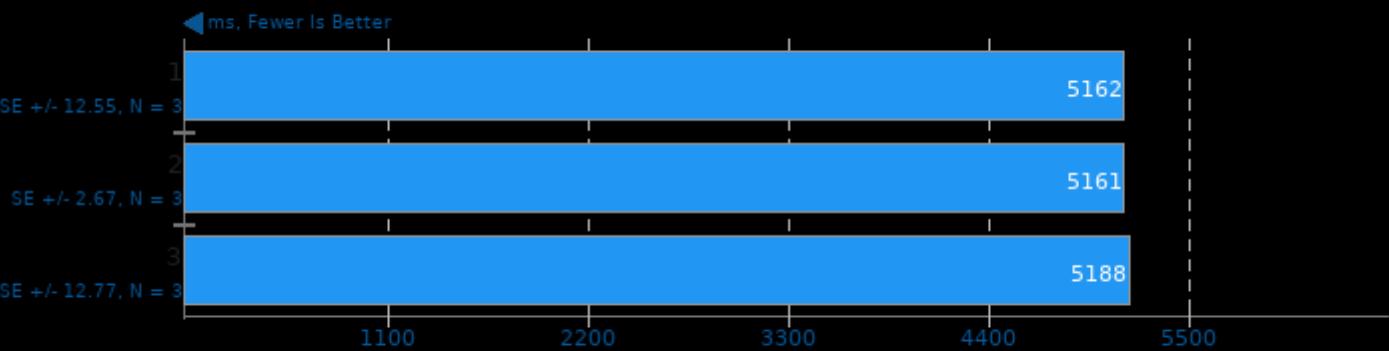
Model: Lion



1. (CXX) g++ options: -O3

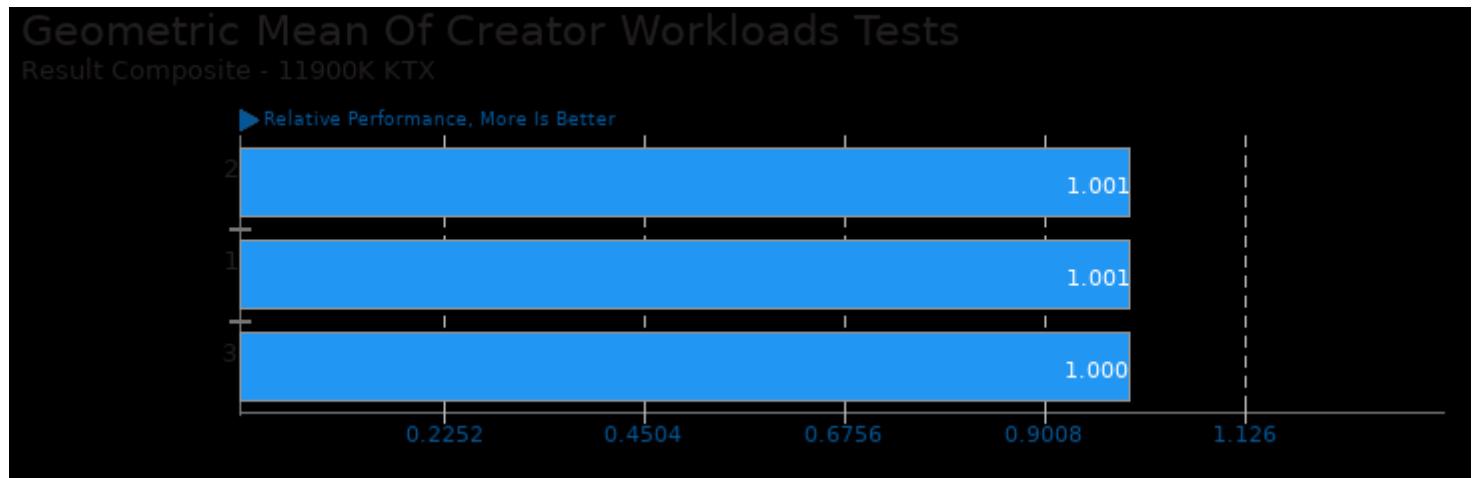
Google Draco 1.4.1

Model: Church Facade

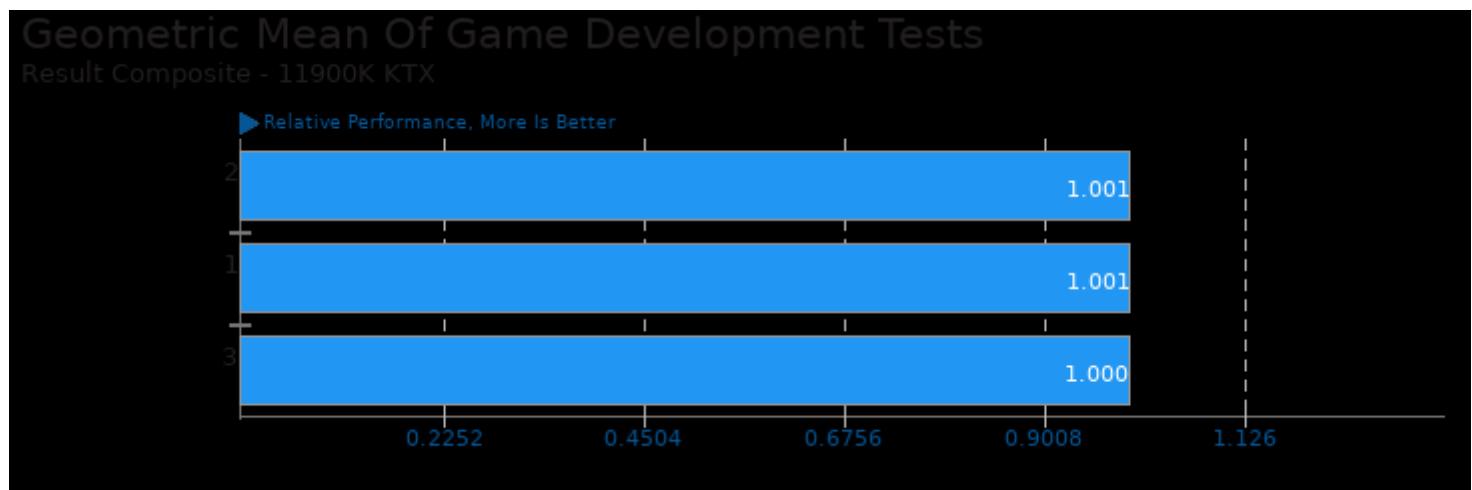


1. (CXX) g++ options: -O3

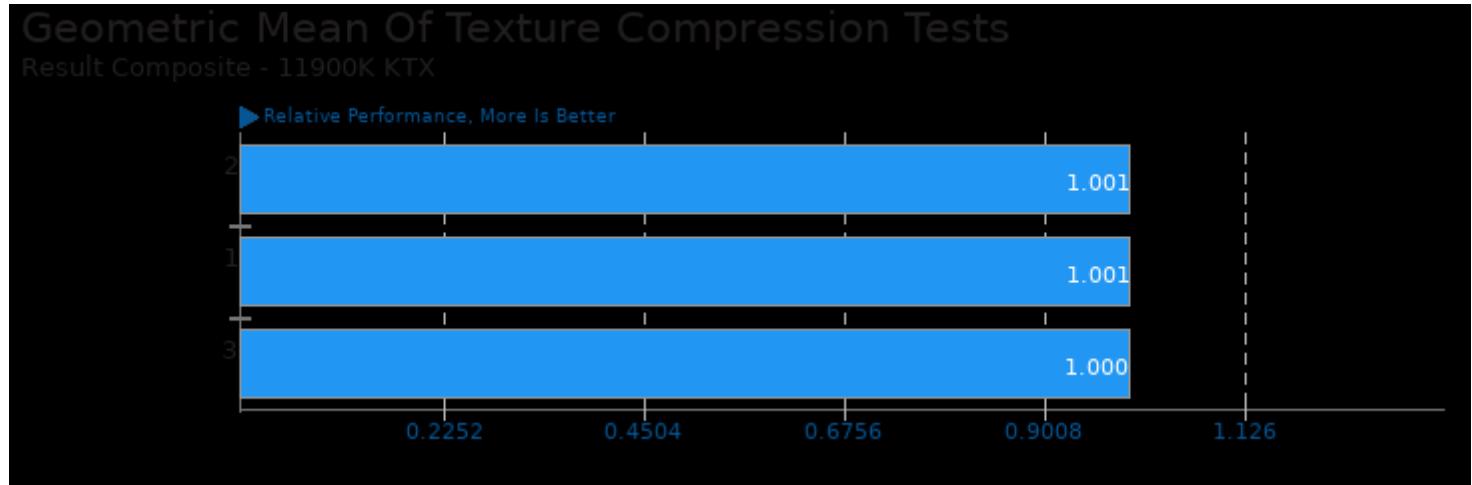
These geometric means are based upon test groupings / test suites for this result file.



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 Friday, 29 March 2024 11:28.