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ktx draco ryzen

AMD Ryzen 5 5600X 6-Core testing with a ASUS TUF GAMING B550M-PLUS (WI-FI) (1804 BIOS) and XFX AMD Radeon R9 285/380 2GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 57% of the tests.

Based on the geometric mean of all complete results, the fastest (2) was 1.002x the speed of the slowest (3). 4 was 0.999x the speed of 2, 1 was 1x the speed of 4, 3 was 0.999x the speed of 1.

Test Systems:

1

2

3

4

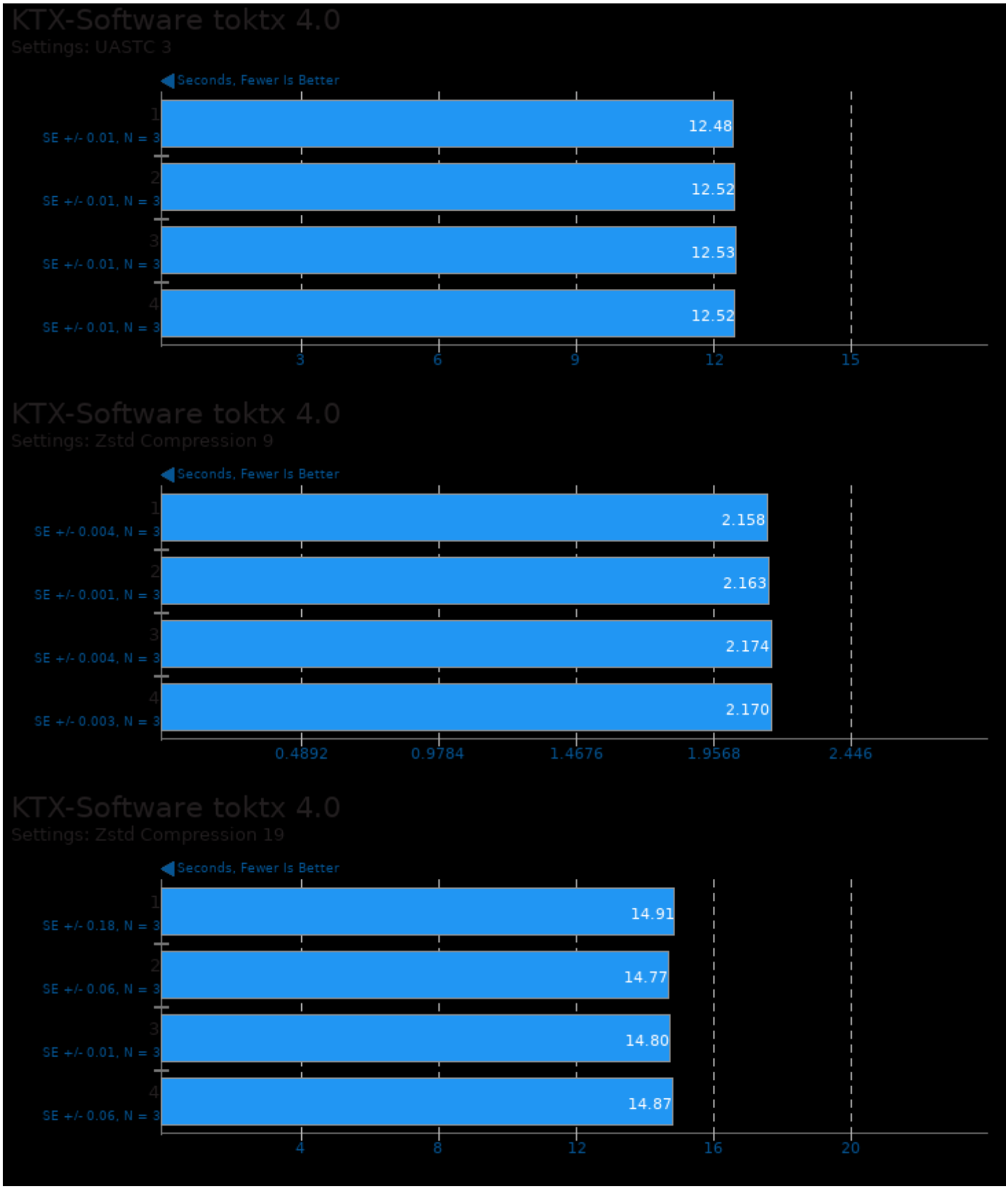
Processor: AMD Ryzen 5 5600X 6-Core @ 3.70GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING B550M-PLUS (WI-FI) (1804 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Samsung SSD 980 PRO 1TB, Graphics: XFX AMD Radeon R9 285/380 2GB (918/1375MHz), Audio: AMD Tonga HDMI Audio, Monitor: LG Ultra HD, Network: Realtek RTL8125 2.5GbE + Intel Wi-Fi 6 AX200

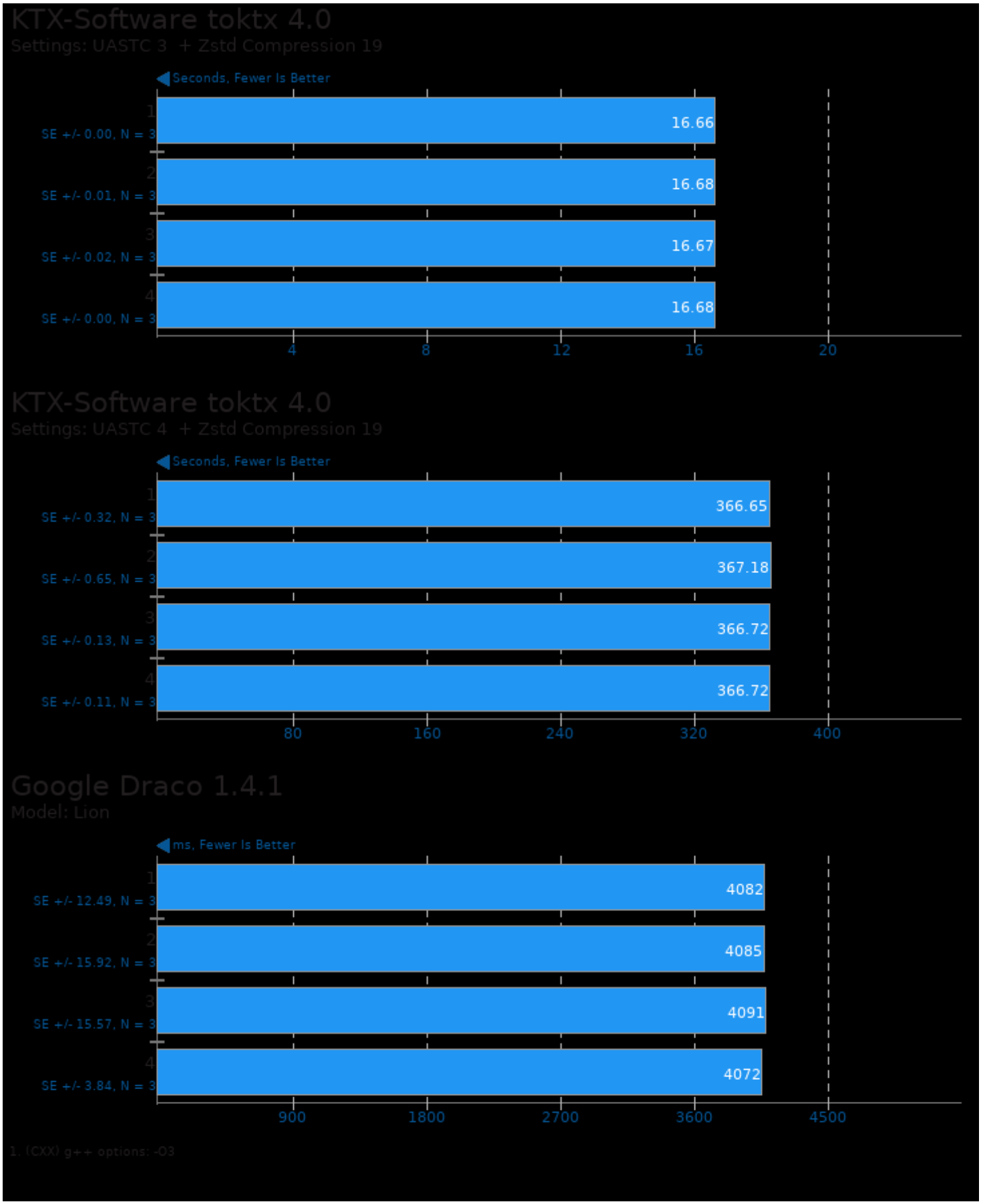
OS: Ubuntu 20.10, Kernel: 5.8.0-50-generic (x86_64), Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.1 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

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: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0xa201009
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

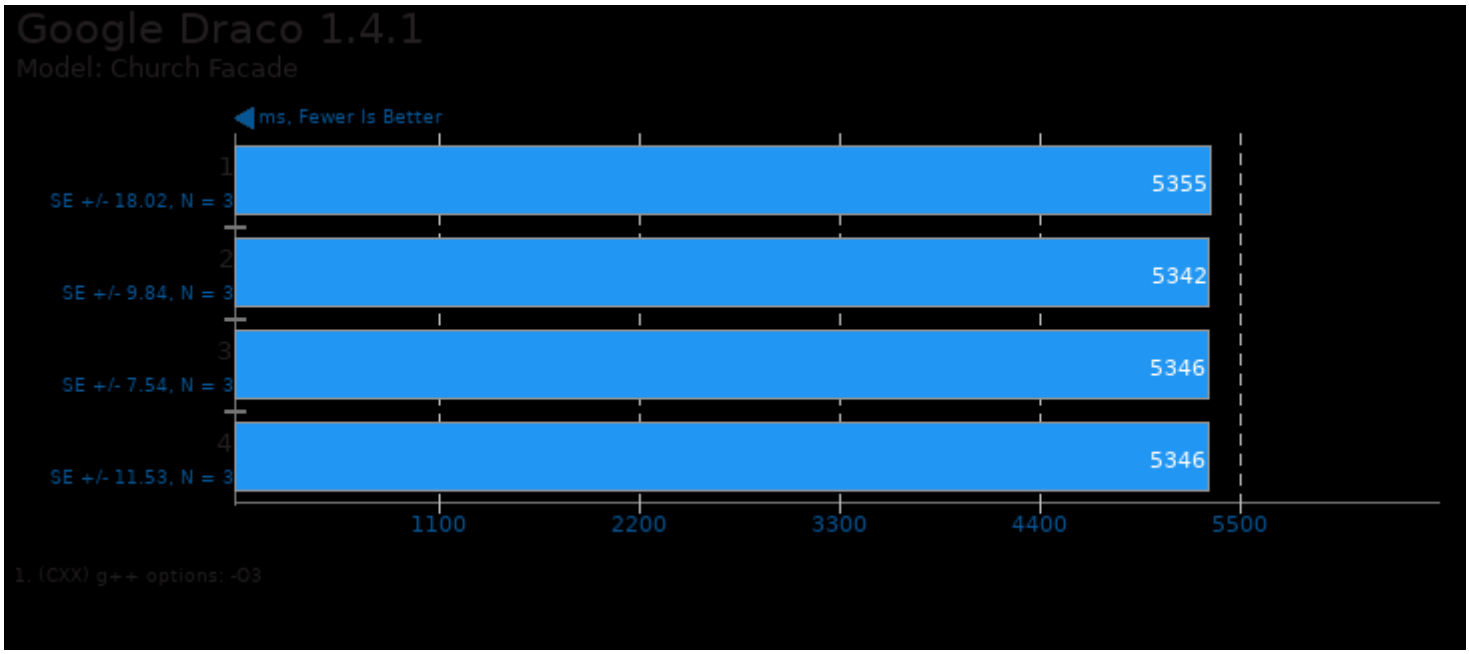
	1	2	3	4
KTX-Software toktx - UASTC 3 (sec)	**12.479**	12.518	**12.525**	12.524
Normalized	100%	99.69%	99.63%	99.64%
Standard Deviation	0.1%	0.1%	0.1%	0.2%
KTX-Software toktx - Zstd Compression 9 (sec)	**2.158**	2.163	**2.174**	2.170
Normalized	100%	99.77%	99.26%	99.45%
Standard Deviation	0.3%	0.1%	0.3%	0.3%
KTX-Software toktx - Z.C.1 (sec)	**14.907**	**14.773**	14.801	14.870
Normalized	99.1%	100%	99.81%	99.35%
Standard Deviation	2.1%	0.7%	0.1%	0.7%
KTX-Software toktx - U.3.Z.C.1 (sec)	**16.662**	16.678	16.671	**16.684**
Normalized	100%	99.9%	99.95%	99.87%
Standard Deviation	0.1%	0.1%	0.2%	0%
KTX-Software toktx - U.4.Z.C.1 (sec)	**366.651**	**367.177**	366.722	366.722
Normalized	100%	99.86%	99.98%	99.98%
Standard Deviation	0.2%	0.3%	0.1%	0.1%
Google Draco - Lion (ms)	4082	4085	**4091**	**4072**
Normalized	99.76%	99.68%	99.54%	100%
Standard Deviation	0.5%	0.7%	0.7%	0.2%
Google Draco - Church Facade (ms)	**5355**	**5342**	5346	5346
Normalized	99.76%	100%	99.93%	99.93%
Standard Deviation	0.6%	0.3%	0.2%	0.4%

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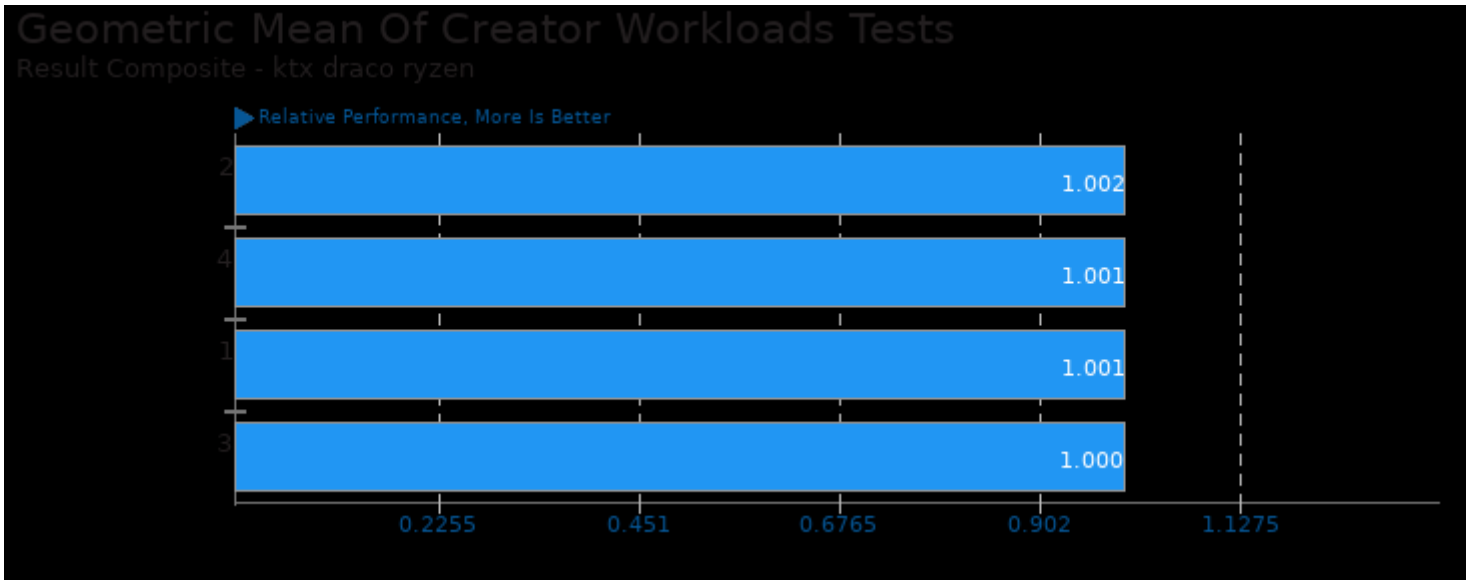

KTX-Software toktx 4.0
Settings: UASTC 3 + Zstd Compression 19
Seconds, Fewer Is Better
1
SE +/- 0.00, N = 3
16.66
2
SE +/- 0.01, N = 3
16.68
3
SE +/- 0.02, N = 3
16.67
4
SE +/- 0.00, N = 3
16.68
4
8
12
16
20
KTX-Software toktx 4.0
Settings: UASTC 4 + Zstd Compression 19
Seconds, Fewer Is Better
1
SE +/- 0.32, N = 3
366.65
2
SE +/- 0.65, N = 3
367.18
3
SE +/- 0.13, N = 3
366.72
4
SE +/- 0.11, N = 3
366.72
80
160
240
320
400
Google Draco 1.4.1
Model: Lion
ms, Fewer Is Better
1
SE +/- 12.49, N = 3
4082
2
SE +/- 15.92, N = 3
4085
3
SE +/- 15.57, N = 3
4091
4
SE +/- 3.84, N = 3
4072
900
1800
2700
3600
4500
1. (CXX) g++ options: -O3

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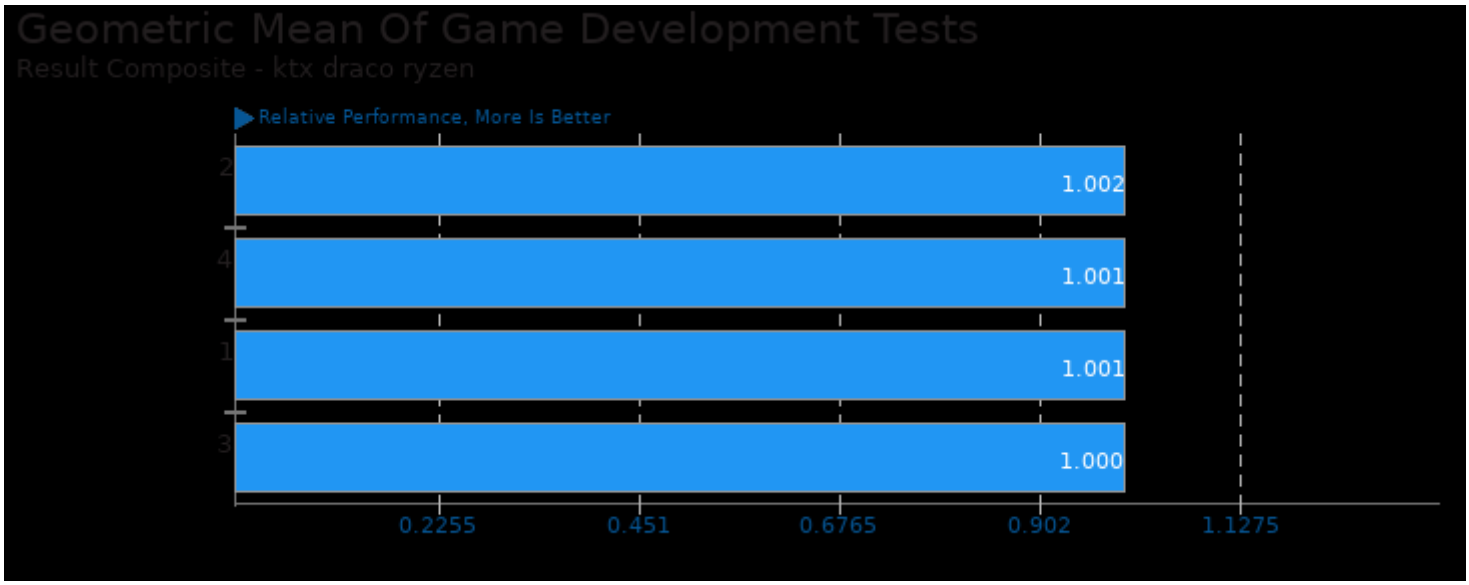


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These geometric means are based upon test groupings / test suites for this result file.

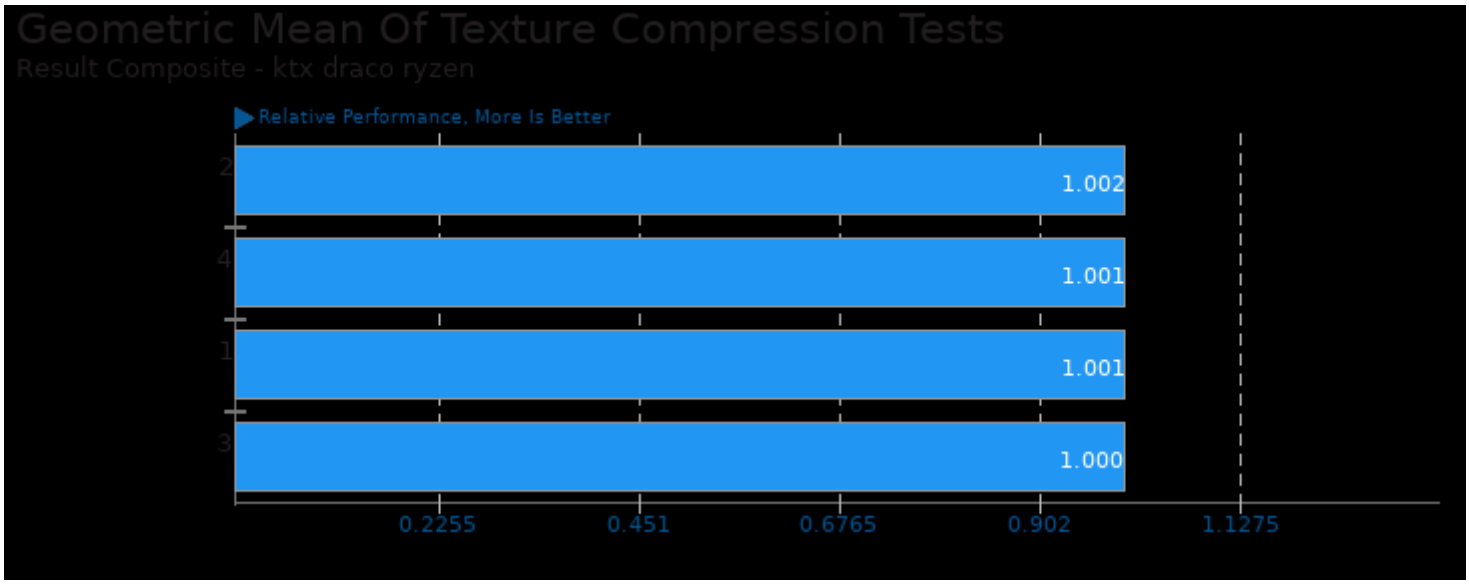


Geometric mean based upon tests: pts/toktx and pts/draco



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

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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 02:43.