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AMD Ryzen 7 3700X 8-Core testing with a Gigabyte B450M S2H (F42c BIOS) and Zotac NVIDIA GeForce RTX 2070 SUPER 8GB on Linuxmint 20.1 via the Phoronix Test Suite.

Test Systems:

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Processor: AMD Ryzen 7 3700X 8-Core @ 3.60GHz (8 Cores / 16 Threads), Motherboard: Gigabyte B450M S2H (F42c BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 480GB TOSHIBA TR200 + 2000GB Crucial X8 SSD + 2000GB CT2000MX500SSD1, Graphics: Zotac NVIDIA GeForce RTX 2070 SUPER 8GB (1605/7000MHz), Audio: NVIDIA TU104 HD Audio, Monitor: 27GL850, Network: Realtek RTL8111/8168/8411

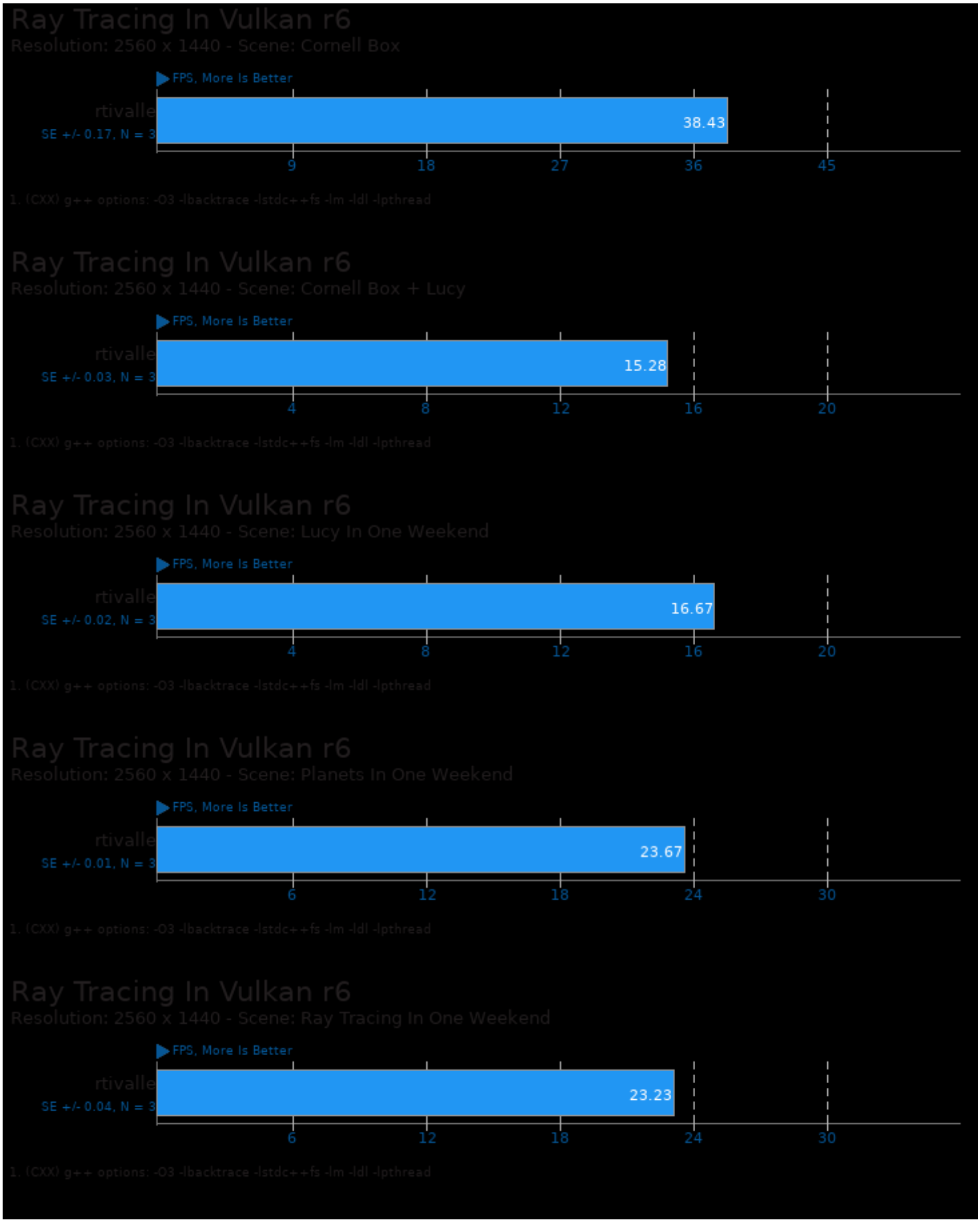
OS: Linuxmint 20.1, Kernel: 5.8.0-43-generic (x86_64), Desktop: Cinnamon 4.8.6, Display Server: X Server 1.20.9, Display Driver: NVIDIA 460.39, OpenGL: 4.6.0, Vulkan: 1.2.155, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 2560x1440

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

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--enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/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: 0x8701013
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 STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

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Ray Tracing In Vulkan - 2560 x 1440 - Cornell Box (FPS)	38.4265
Standard Deviation	0.8%
Ray Tracing In Vulkan - 2560 x 1440 - Cornell Box + Lucy (FPS)	15.2791
Standard Deviation	0.4%
Ray Tracing In Vulkan - 2560 x 1440 - L.I.O.W (FPS)	16.6704
Standard Deviation	0.2%
Ray Tracing In Vulkan - 2560 x 1440 - P.I.O.W (FPS)	23.6676
Standard Deviation	0.1%
Ray Tracing In Vulkan - 2560 x 1440 - R.T.I.O.W (FPS)	23.2320
Standard Deviation	0.3%



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