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Blender

Intel Core i7-2600K testing with a Gigabyte P67A-UD7-B3 (F7 BIOS) and ASUS AMD Radeon RX 470/480/570/570X/580/580X/590 4GB on Gentoo 2.7 via the Phoronix Test Suite.

Test Systems:

AMD Ryzen 5 3400G - AMD SIENNA_CICHLID 16GB - ASUS

Processor: AMD Ryzen 5 3400G @ 3.70GHz (4 Cores / 8 Threads), Motherboard: ASUS Pro WS X570-ACE (2206 BIOS), Chipset: AMD Raven/Raven2, Memory: 64GB, Disk: Samsung SSD 970 EVO Plus 500GB + 2 x 2000GB Samsung SSD 860, Graphics: AMD SIENNA_CICHLID 16GB (2475/1000MHz), Audio: Realtek ALC1220, Monitor: S27A950D, Network: Intel I211 + Realtek RTL8111/8168/8411

OS: Gentoo 2.7, Kernel: 5.10.7-gentoo (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.8, Display Driver: amdgpu 19.1.0, OpenGL: 4.6 Mesa 21.0.0-rc1 (LLVM 11.0.0), OpenCL: OpenCL 2.0 AMD-APP.dbg (3212.0), Vulkan: 1.2.145, Compiler: Clang 11.0.0 + LLVM 11.0.0, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8108109
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: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

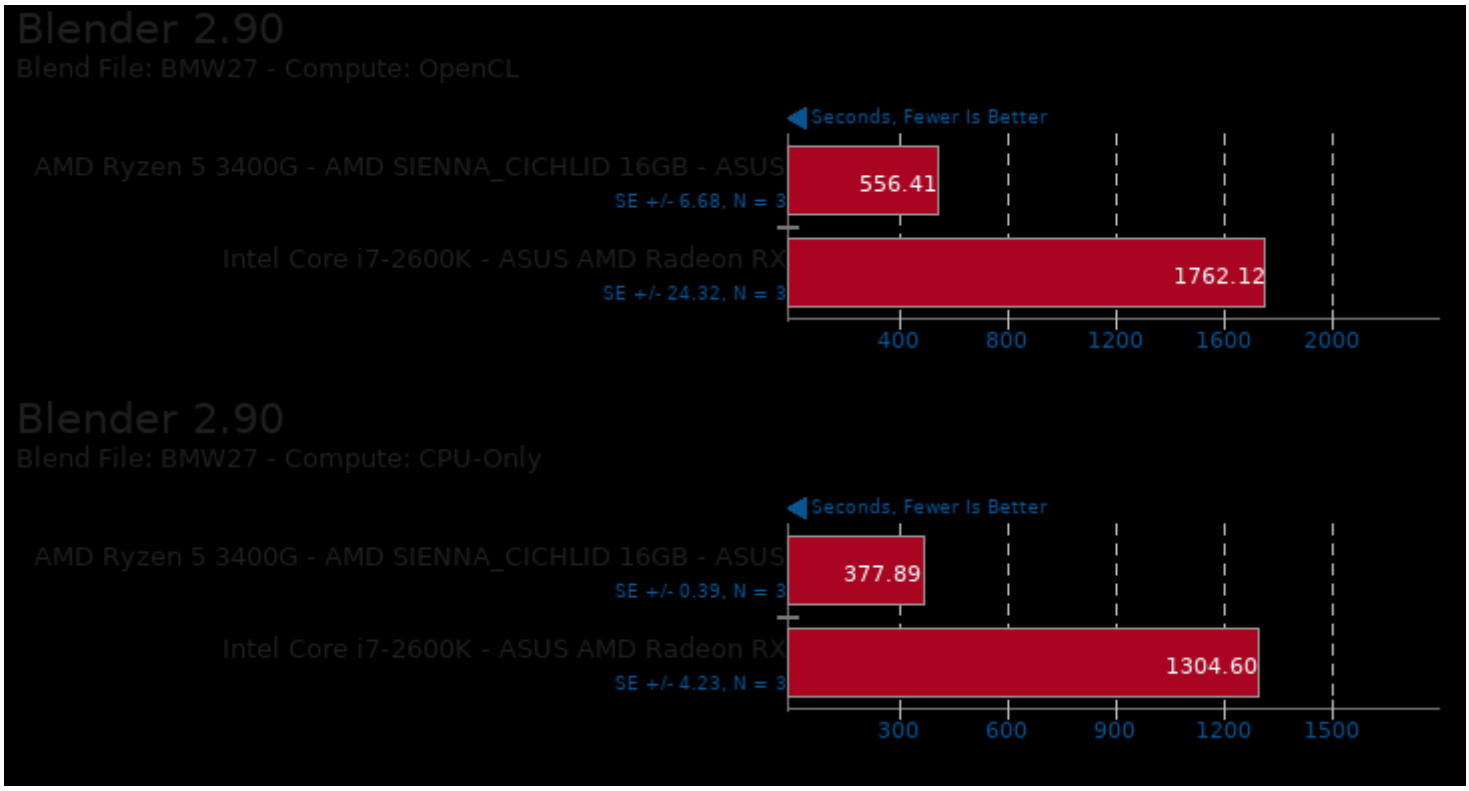
Intel Core i7-2600K - ASUS AMD Radeon RX

Processor: Intel Core i7-2600K @ 3.80GHz (4 Cores / 8 Threads), Motherboard: Gigabyte P67A-UD7-B3 (F7 BIOS), Chipset: Intel 2nd Generation Core DRAM, Memory: 16GB, Disk: 240GB INTEL SSDSC2CW24, Graphics: ASUS AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1300/1750MHz), Audio: Realtek ALC889, Monitor: S27A950D, Network: 2 x Realtek RTL8111/8168/8411

OS: Gentoo 2.7, Kernel: 5.10.4-gentoo (x86_64), Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenCL: OpenCL 2.1 AMD-APP (3180.7), Vulkan: 1.2.145, Compiler: GCC 9.2.0 + Clang 11.0.1 + LLVM 11.0.1, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: amdgpu.gpu_recovery=1
Processor Notes: Scaling Governor: intel_cpufreq userspace - CPU Microcode: 0x25
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	AMD Ryzen 5 3400G - AMD SIENNA_CICHLID 16GB - ASUS	Intel Core i7-2600K - ASUS AMD Radeon RX
Blender - BMW27 - OpenCL (sec)	**556.41**	**1762**
Normalized	100%	31.58%
Standard Deviation	2.1%	2.4%
Blender - BMW27 - CPU-Only (sec)	**377.89**	**1305**
Normalized	100%	28.97%
Standard Deviation	0.2%	0.6%



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