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xonotic-1680x1050-high-onboard

AMD FX-8350 Eight-Core testing with a ASUS M5A99X EVO R2.0 (1503 BIOS) and ASUS AMD Radeon HD 4870 1GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Intel HD 2000

Processor: Intel Core i7-2600 @ 3.80GHz (4 Cores / 8 Threads), Motherboard: Dell 0D28YY (A05 BIOS), Chipset: Intel 2nd Generation Core DRAM, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: Intel HD 2000 2GB (1350MHz), Audio: Realtek ALC269VB, Monitor: HP w2207, Network: Intel 82579LM

OS: Ubuntu 20.04, Kernel: 5.4.0-58-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 3.3 Mesa 20.0.8, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x2f
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

xonotic-engt440

Processor: Intel Core i7-2600 @ 3.80GHz (4 Cores / 8 Threads), Motherboard: Dell 0D28YY (A05 BIOS), Chipset: Intel 2nd Generation Core DRAM, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: ASUS NVIDIA GeForce GT 440 1GB (822/1620MHz), Audio: Realtek ALC269VB, Monitor: HP w2207, Network: Intel 82579LM

OS: Ubuntu 20.04, Kernel: 5.4.0-58-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.8, Display Driver: NVIDIA 390.138, OpenGL: 4.6.0, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x2f
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

xonotic-hd4350-512m

Processor: Intel Core i7-2600 @ 3.80GHz (4 Cores / 8 Threads), Motherboard: Dell 0D28YY (A05 BIOS), Chipset: Intel 2nd Generation Core DRAM, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: Sapphire AMD Radeon HD 4350/4550 512MB, Audio: Realtek ALC269VB, Monitor: HP w2207, Network: Intel 82579LM

OS: Ubuntu 20.04, Kernel: 5.4.0-58-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 3.3 Mesa 20.0.8 (LLVM 10.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x2f
Graphics Notes: GLAMOR
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

xonotic-quadro-k600

Processor: Intel Core i7-2600 @ 3.80GHz (4 Cores / 8 Threads), Motherboard: Dell 0D28YY (A05 BIOS), Chipset: Intel 2nd Generation Core DRAM, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: NVIDIA Quadro K600 1GB (875/891MHz), Audio: Realtek ALC269VB, Monitor: HP w2207, Network: Intel 82579LM

OS: Ubuntu 20.04, Kernel: 5.4.0-58-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.8, Display Driver: NVIDIA 455.38, OpenGL: 4.6.0, Vulkan: 1.2.142, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x2f
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

xonotic-gtx660-fx8core

Processor: AMD FX-8350 Eight-Core @ 3.80GHz (4 Cores / 8 Threads), Motherboard: ASUS M5A99X EVO R2.0 (1503 BIOS), Chipset: AMD RD9x0/RX980, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: NVIDIA GeForce GTX 660 2GB (823/2800MHz), Audio: Realtek ALC892, Monitor: HP w2207, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-59-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.8, Display Driver: NVIDIA 455.38, OpenGL: 4.6.0, Vulkan: 1.2.142, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
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

xonotic-hd5850-1GB

Processor: AMD FX-8350 Eight-Core @ 3.80GHz (4 Cores / 8 Threads), Motherboard: ASUS M5A99X EVO R2.0 (1503 BIOS), Chipset: AMD RD9x0/RX980, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: Sapphire AMD Radeon HD 5850 1GB, Audio: Realtek ALC892, Monitor: HP w2207, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-59-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 4.3 Mesa 20.2.6 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
Graphics Notes: GLAMOR
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

xonotic-hd5770-1GB

Processor: AMD FX-8350 Eight-Core @ 3.80GHz (4 Cores / 8 Threads), Motherboard: ASUS M5A99X EVO R2.0 (1503 BIOS), Chipset: AMD RD9x0/RX980, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: AMD Radeon HD 5770 1GB, Audio: Realtek ALC892, Monitor: HP w2207, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-59-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 3.3 Mesa 20.2.6 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
Graphics Notes: GLAMOR
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

xonotic-hd-7950-3GB

Processor: AMD FX-8350 Eight-Core @ 3.80GHz (4 Cores / 8 Threads), Motherboard: ASUS M5A99X EVO R2.0 (1503 BIOS), Chipset: AMD RD9x0/RX980, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: MSI AMD Radeon HD 7950/8950 OEM / R9 280 3GB, Audio: Realtek ALC892, Monitor: HP w2207, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-59-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 4.5 Mesa 20.2.6 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
Graphics Notes: GLAMOR
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

xonotic-radeon-6950-2GB

Processor: AMD FX-8350 Eight-Core @ 3.80GHz (4 Cores / 8 Threads), Motherboard: ASUS M5A99X EVO R2.0 (1503 BIOS), Chipset: AMD RD9x0/RX980, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: AMD Radeon HD 6950 2GB, Audio: Realtek ALC892, Monitor: HP w2207, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-60-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 4.3 Mesa 20.2.6 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
Graphics Notes: GLAMOR
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

xonotic-radeon-6450

Processor: AMD FX-8350 Eight-Core @ 3.80GHz (4 Cores / 8 Threads), Motherboard: ASUS M5A99X EVO R2.0 (1503 BIOS), Chipset: AMD RD9x0/RX980, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: AMD Radeon HD 7470/8470 / R5 235/310 OEM 1GB, Audio: Realtek ALC892, Monitor: HP w2207, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-60-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 3.3 Mesa 20.2.6 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
Graphics Notes: GLAMOR
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

xonotic-asus-hd-4870-1GB

Processor: AMD FX-8350 Eight-Core @ 3.80GHz (4 Cores / 8 Threads), Motherboard: ASUS M5A99X EVO R2.0 (1503 BIOS), Chipset: AMD RD9x0/RX980, Memory: 4096MB, Disk: 240GB KINGSTON SV300S3, Graphics: ASUS AMD Radeon HD 4870 1GB, Audio: Realtek ALC892, Monitor: HP w2207, Network: Realtek RTL8111/8168/8411

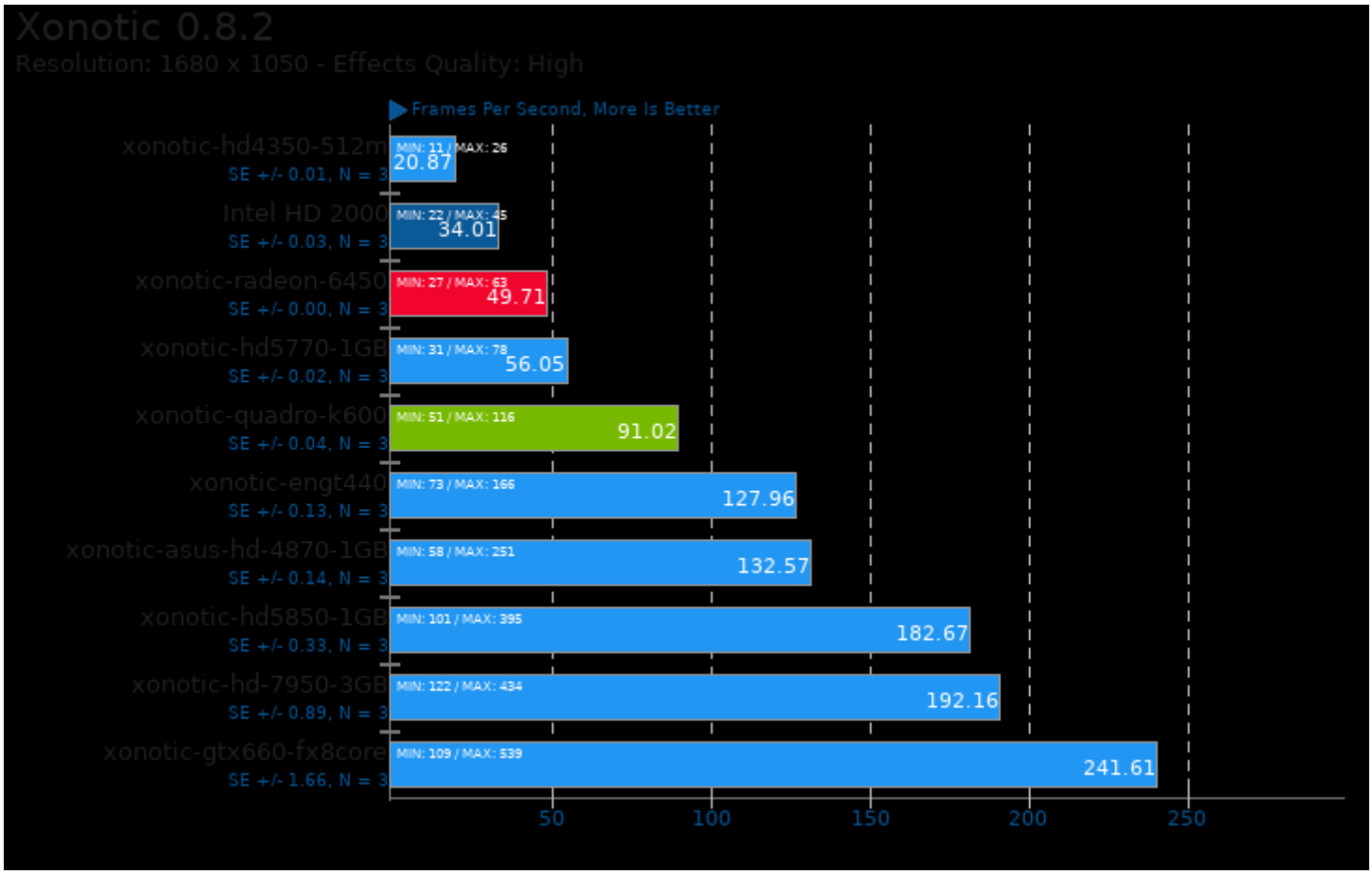
OS: Ubuntu 20.04, Kernel: 5.4.0-60-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 3.3 Mesa 20.2.6 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
Graphics Notes: GLAMOR
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

xonotic-1680x1050-high-onboard

	Intel HD 2000	xonotic-engt440	xonotic-hd4350-512m	xonotic-quadro-k600	xonotic-gtx660-fx8core	xonotic-hd5850-1GB	xonotic-hd5770-1GB	xonotic-hd-7950-3GB	xonotic-radeon-6950-2G	xonotic-radeon-6450	xonotic-asus-hd-4870-1
Xonotic - 1680 x 1050 - High (FPS)	34.0060 147	127.956 2962	**20.8685** **212**	91.0158 303	**241.614** **3131**	182.670 6040	56.0535 186	192.162 7538		49.7082 196	132.571 7905
Normalized	14.07%	52.96%	8.64%	37.67%	100%	75.6%	23.2%	79.53%		20.57%	54.87%
Standard Deviation	0.1%	0.2%	0.1%	0.1%	1.2%	0.3%	0.1%	0.8%		0%	0.2%

xonotic-1680x1050-high-onboard



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