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glmark2-1680x1050-onboard-graphics

AMD FX-8350 Eight-Core testing with a ASUS M5A99X EVO R2.0 (1503 BIOS) and AMD Radeon HD 7470/8470 / R5 235/310 OEM 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
Python Notes: Python 3.8.5
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

glmark-gt210

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 NVA8 1GB, 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
Python Notes: Python 3.8.5
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

glmark2-gt210-nvidiadriver

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 210 1GB (589/600MHz), 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 340.108, OpenGL: 3.3.0, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x2f
Python Notes: Python 3.8.5
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

glmark2-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
Python Notes: Python 3.8.5
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

glmark2-hd4350-512MB

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
Python Notes: Python 3.8.5
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

glmark2-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
Python Notes: Python 3.8.5
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

glmark-gtx660-on-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
Python Notes: Python 3.8.5
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

glmark-hd5850-1G

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

Python Notes: Python 3.8.5
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

glmark2-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
Python Notes: Python 3.8.5
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

glmark2-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
Python Notes: Python 3.8.5
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

glmark2-hd-5870-1GB

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: XFX AMD Radeon HD 5870 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: 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
Python Notes: Python 3.8.5
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

glarmk2-quadrofx-3450-256MB

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 NV42 256MB, 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: nouveau 1.0.16, OpenGL: 2.1 Mesa 20.2.6, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
Graphics Notes: EXA
Python Notes: Python 3.8.5
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

glmark2-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
Python Notes: Python 3.8.5
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

glmark2-hd-6450-1GB

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 7470/8470 / R5 235/310 OEM 1GB, Audio: Realtek ALC892, Monitor: HP w2207, Network: Realtek RTL8111/8168/8411

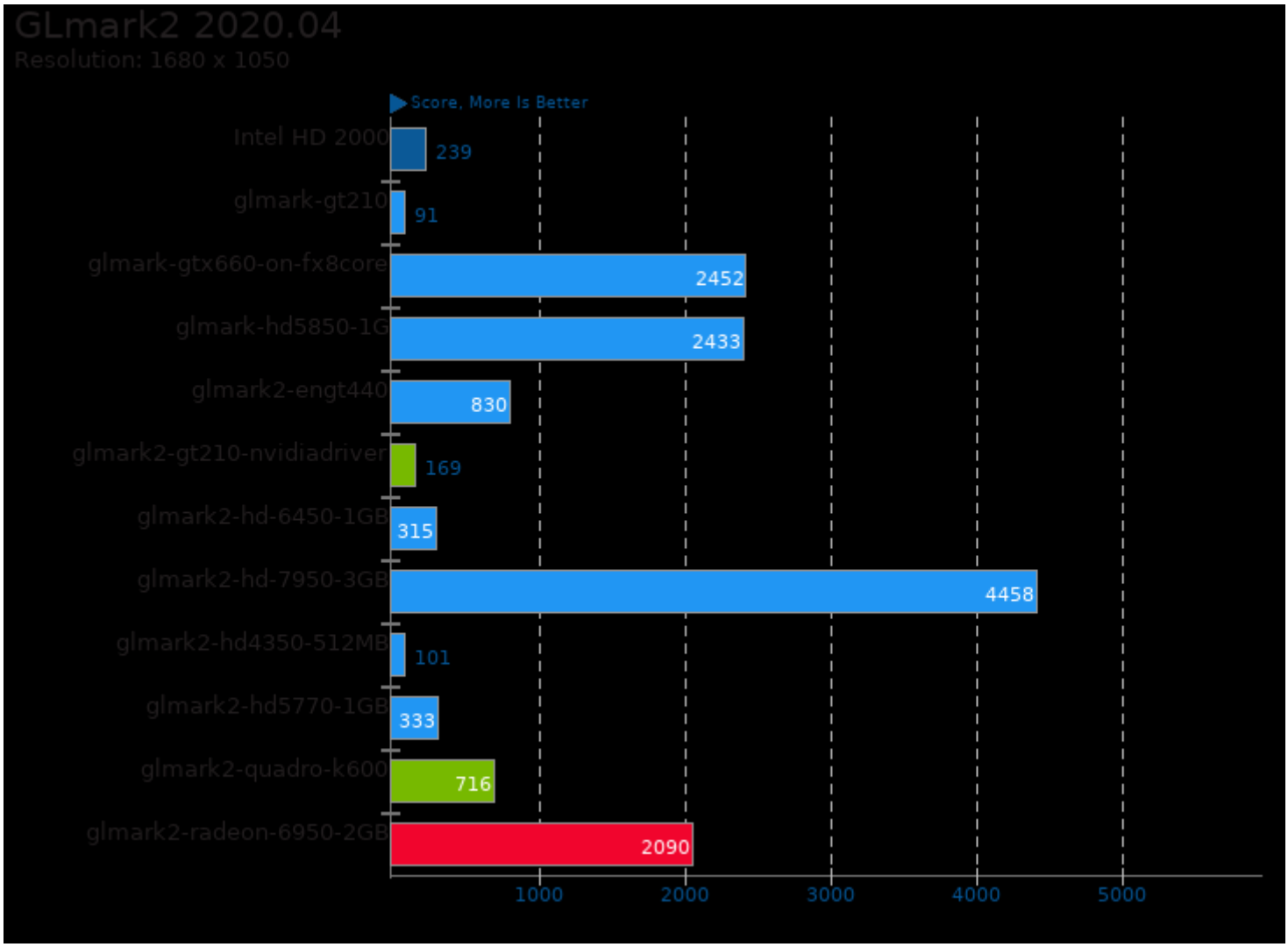
OS: Ubuntu 20.04, Kernel: 5.4.0-60-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 3.3 Mesa 20.2.6 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x6000852
Graphics Notes: GLAMOR
Python Notes: Python 3.8.5
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

glmark2-1680x1050-onboard-graphics

	Intel HD 2000	glmark-gt210	glmark2-gt210-nvidiadriver	glmark2-engt440	glmark2-hd4350-512MB	glmark2-quadro-k600	glmark-gtx660-on-fx8core	glmark-hd5850-1G	glmark2-hd5770-1GB	glmark2-hd-7950-3GB	glmark2-hd-5870-1GB	glarmk2-quadrofx-3450-256M	glmark2-radeon-6950-2GB	glmark2-hd-6450-1GB
GLmark2 - 1680 x 1050 (Score)	239	91	169	830	101	716	2452	2433	333	4458			2090	315
Normalized	5.36%	2.04%	3.79%	18.62%	2.27%	16.06%	55%	54.58%	7.47%	100%			46.88%	7.07%

glmark2-1680x1050-onboard-graphics



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