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openarena-1024x768-onboard

openarena-hd5770-1GB

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

openarena-gt210-nvidia340

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
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

openarena-gt440

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

openarena-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

openarena-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

openarena-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

openarena-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

AMD Radeon HD 5770

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

openarena-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

openarena-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

openarena-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

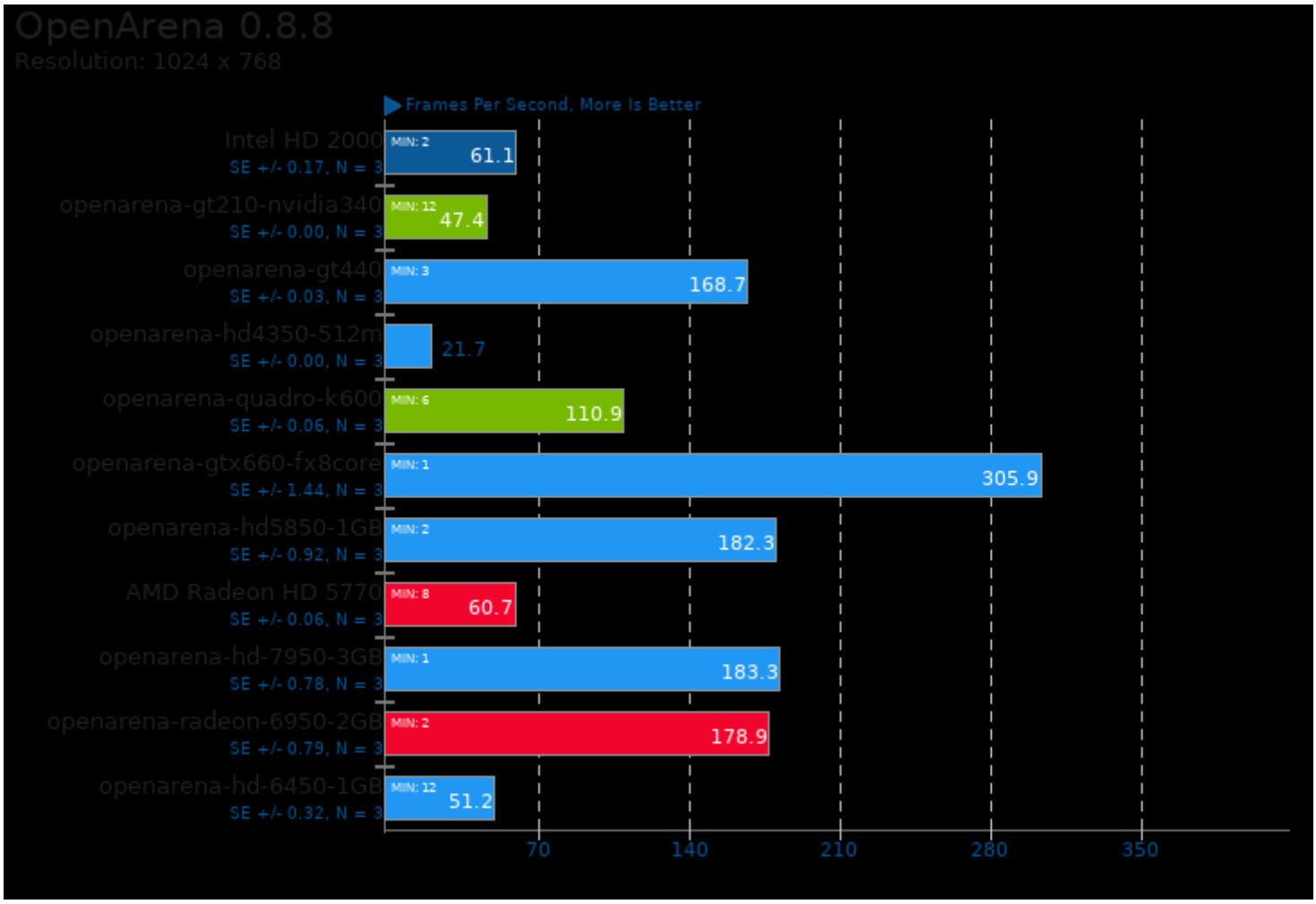
OS: Ubuntu 20.04, Kernel: 5.4.0-60-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 3.3 Mesa 20.2.6 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1680x1050

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

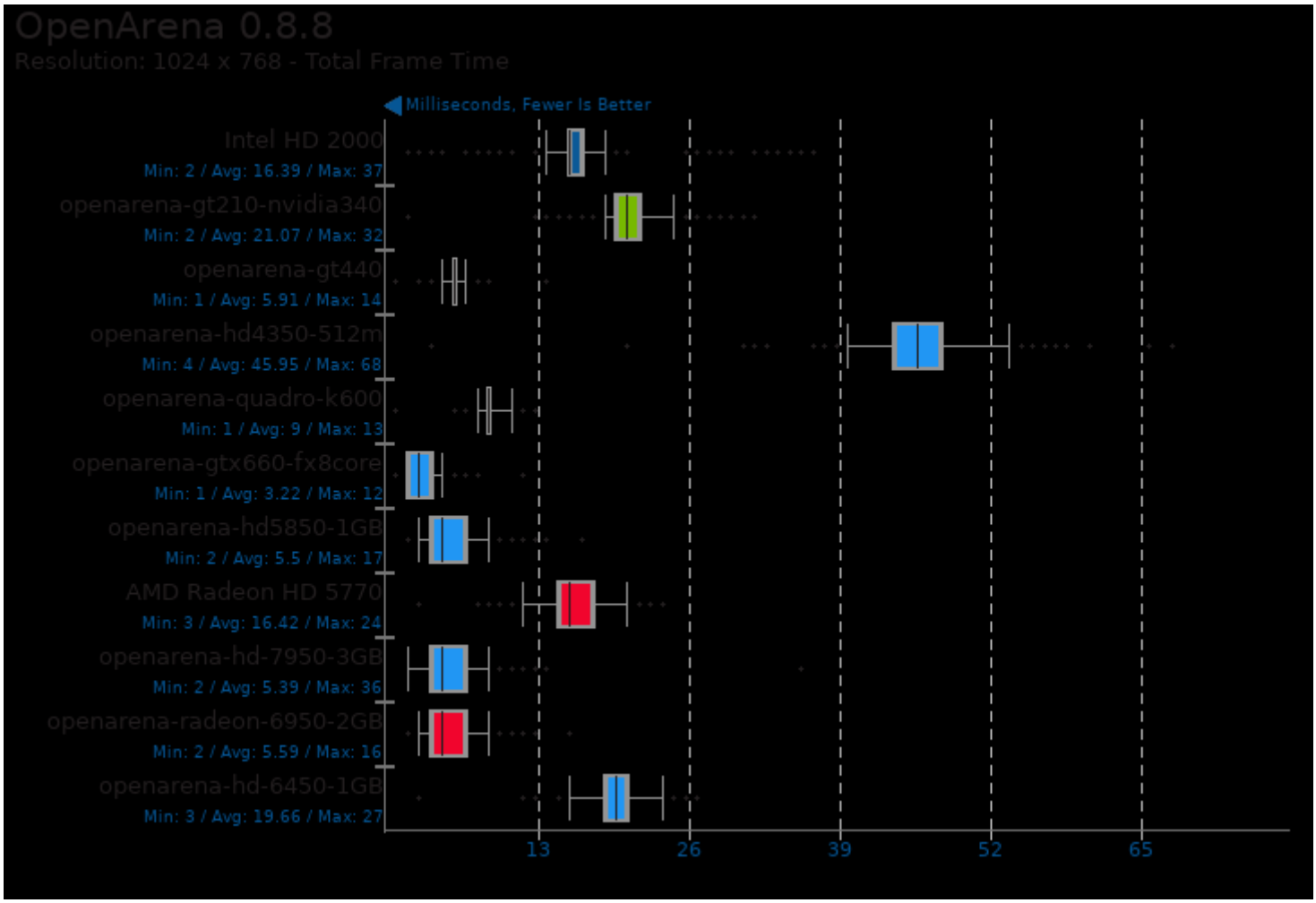
openarena-1024x768-onboard

	Intel HD 2000	openarena-gt210-nvidia 340	openarena-gt440	openarena-hd4350-512m	openarena-quadro-k600	openarena-gtx660-fx8core	openarena-hd5850-1GB	AMD Radeon HD 5770	openarena-hd-7950-3GB	openarena-radeon-6950-2GB	openarena-hd-6450-1GB
OpenArena - 1024 x 768 (FPS)	61.1	47.4	168.7	**21.7**	110.9	**305.9**	182.3	60.7	183.3	178.9	51.2
Normalized	19.97%	15.5%	55.15%	7.09%	36.25%	100%	59.59%	19.84%	59.92%	58.48%	16.74%
Standard Deviation	0.5%	0%	0%	0%	0.1%	0.8%	0.9%	0.2%	0.7%	0.8%	1.1%

openarena-1024x768-onboard



openarena-1024x768-onboard



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