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smallpt1

AMD Ryzen 5 2600X Six-Core testing with a ASRock B450M/ac (P1.20 BIOS) and Sapphire AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 6GB on ManjaroLinux 19.0 via the Phoronix Test Suite.

Test Systems:

smallpt1

Processor: Intel Core i5-3340M @ 3.40GHz (2 Cores / 4 Threads), Motherboard: TOSHIBA Portable PC (6.70 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8192MB, Disk: 240GB CT240BX500SSD1 + 640GB + 500GB, Graphics: Intel Ivybridge Mobile 2GB (1250MHz), Audio: Realtek ALC269VB, Monitor: L185V, Network: Qualcomm Atheros AR8162 + Realtek RTL8188EE

OS: ManjaroLinux 18.1.1, Kernel: 5.3.7-2-MANJARO (x86_64), Display Server: X Server 1.20.5, Display Driver: intel 2.99.917, OpenGL: 4.2 Mesa 19.2.2, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 2732x768

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty

--enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++ --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: intel_pstate powersave

Security Notes: I1tf: 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 retrpoine STIBP: disabled RSB filling

smallpt4

Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1385/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.2, Kernel: 5.4.0-1-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.5, OpenGL: 4.5 Mesa 19.2.3 (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 8.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff amdgpu.dcfeaturemask=2

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Security Notes: I1tf: 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 retrpoine IBPB: conditional STIBP: disabled RSB filling

test

test2

Processor: AMD Ryzen 3 3200G @ 3.60GHz (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1380/1920MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.0-1-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.5, OpenGL: 4.5 Mesa 20.0.0-devel (git-2e64afa5e3) (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 8.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff amdgpu.dcfeaturemask=2

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: acpi-cpufreq userspace

Security Notes: I1tf: 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 retrpoine IBPB: conditional STIBP: disabled RSB filling

test3

Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1380/1920MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.0-1-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.5, OpenGL: 4.5 Mesa 20.0.0-devel (git-2e64afa5e3) (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 8.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff amdgpu.dcfeaturemask=2
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Security Notes: 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 retrpoline IBPB: conditional STIBP: disabled RSB filling

test4

Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 80GB + 500GB HGST HTS545050A7 + 240GB CT240BX500SSD1 + 16GB USB Flash Disk, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1380/1920MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.0-1-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.5, OpenGL: 4.5 Mesa 20.0.0-devel (git-2e64afa5e3) (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 8.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff amdgpu.dcfeaturemask=2
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Security Notes: 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 retrpoline IBPB: conditional STIBP: disabled RSB filling

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Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1380/1920MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.0-1-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.5, OpenGL: 4.5 Mesa 20.0.0-devel (git-2e64afa5e3) (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 8.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff amdgpu.dcfeaturemask=2
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Security Notes: 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 retrpoline IBPB: conditional STIBP: disabled RSB filling

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Processor: AMD Ryzen 3 3200G @ 3.60GHz (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 16GB USB Flash Disk + 500GB HGST HTS545050A7 + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1380/1920MHz), Audio: AMD Ellesmere HDMI Audio, Monitor:

L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.0-1-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.5, OpenGL: 4.5 Mesa 20.0.0-devel (git-2e64afa5e3) (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 8.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff amdgpu.dcfeaturemask=2
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil
Security Notes: I1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling

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Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1380/1920MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.0-1-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.5, OpenGL: 4.5 Mesa 20.0.0-devel (git-2e64afa5e3) (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 8.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff amdgpu.dcfeaturemask=2
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Security Notes: I1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling

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Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 80GB + 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1366/1750MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.0-2-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 19.2.6 (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Security Notes: itlb_multihit: Not affected + I1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

test9

Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD

Raven/Raven2, Memory: 16384MB, Disk: 80GB + 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1366/1750MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.1-2-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 19.2.6 (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Security Notes: itlb_multithit: 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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

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Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 80GB + 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.4.1-2-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 19.2.6 (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Security Notes: itlb_multithit: 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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

kernel 5.3.14

Processor: AMD Ryzen 3 3200G (4 Cores), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD Raven/Raven2, Memory: 16384MB, Disk: 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.3, Kernel: 5.3.14-1-MANJARO (x86_64), Desktop: Deepin Desktop Environment, Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 19.2.6 (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Security Notes: itlb_multithit: 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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

Ryzen 2600X

Processor: AMD Ryzen 5 2600X Six-Core @ 4.00GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 80GB + 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.4.2-arch1-1 (x86_64), Desktop: Budgie, Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 19.2.7 (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 19.2.7, Vulkan: 1.1.107, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: acpi-cpufreq schedutil - CPU Microcode: 0x800820d

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 + tsx_async_abort: Not affected

5.5-tkg

Processor: AMD Ryzen 5 2600X Six-Core @ 4.00GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.5.0-rc1-1-tkg-pds (x86_64), Desktop: Budgie, Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 19.2.7 (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 19.2.7, Vulkan: 1.1.127, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d

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 + tsx_async_abort: Not affected

Precision Boost Overdrive

PBO 5.5-tkg

pbo3

Processor: AMD Ryzen 5 2600X Six-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.5.0-rc1-1-tkg-pds (x86_64), Desktop: Budgie, Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.127, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.ppfeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

5.5-rc

Gamemode

async

Processor: AMD Ryzen 5 2600X Six-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.4, Kernel: 5.5.0-2-MANJARO (x86_64), Desktop: GNOME Shell 3.34.2, Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 19.3.0 (LLVM 9.0.0), Vulkan: 1.1.127, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.ppfeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

modesetting attempt

schedutil

Processor: AMD Ryzen 5 2600X Six-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.5, Kernel: 5.4.6-2-MANJARO (x86_64), Desktop: GNOME Shell 3.34.2, Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil - CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

4.0GHz

Processor: AMD Ryzen 5 2600X Six-Core @ 4.00GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.5, Kernel: 5.4.6-2-MANJARO (x86_64), Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

fsync kernel

Processor: AMD Ryzen 5 2600X Six-Core @ 4.00GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.5, Kernel: 5.4.3-arch1-1-fsync (x86_64), Desktop: KDE Frameworks 5.65.0, Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

Arch Linux

Processor: AMD Ryzen 5 2600X Six-Core @ 4.03GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 +

80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.5.0-rc1-1-tkg-pds (x86_64), Desktop: GNOME Shell 3.34.2, Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

Manjaro-TKG-5.5-PDS

Processor: AMD Ryzen 5 2600X Six-Core (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570X/580/580X/590 4GB (1420/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.5, Kernel: 5.5.0-rc4-3-tkg-pds (x86_64), Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

Arch with fsync kernel 5.4.3

Processor: AMD Ryzen 5 2600X Six-Core @ 4.00GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.4.3-arch1-1-fsync (x86_64), Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty

```
--enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man  
--with-isl --with-linker-hash-style=gnu  
Processor Notes: Scaling Governor: acpi-cpufreq schedutil - CPU Microcode: 0x800820d  
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 retrpoline IBPB: conditional STIBP:  
disabled RSB filling + tsx_async_abort: Not affected
```

ArchLinuxZenPBO

Processor: AMD Ryzen 5 2600X Six-Core (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.4.7-zen1-1-zen (x86_64), Desktop: KDE Plasma 5.17.4, Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

```
Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff  
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release  
--enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty  
--enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man  
--with-isl --with-linker-hash-style=gnu  
Processor Notes: CPU Microcode: 0x800820d  
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 retrpoline IBPB: conditional STIBP:  
disabled RSB filling + tsx_async_abort: Not affected
```

New paste

zenstates oc

Processor: AMD Ryzen 5 2600X Six-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.4.8-zen1-1-zen (x86_64), Desktop: KDE Plasma 5.17.4, Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

```
Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff  
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release  
--enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty  
--enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man  
--with-isl --with-linker-hash-style=gnu  
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d  
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 retrpoline IBPB: conditional STIBP:  
disabled RSB filling + tsx_async_abort: Not affected
```

Arch 5.5-tkg

Processor: AMD Ryzen 5 2600X Six-Core (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS),

Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1390/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.5.0-rc4-3-tkg-pds (x86_64), Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.0), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,io,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

Lower PBO

Processor: AMD Ryzen 5 2600X Six-Core (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1420/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.5.0-rc4-3-tkg-pds (x86_64), Desktop: KDE Plasma 5.17.4, Display Server: X Server 1.20.6, OpenGL: 4.5 Mesa 20.0.0-devel (git-3409c06e26) (LLVM 9.0.1), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-3409c06e26), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,io,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

Arch 5.4.8

Processor: AMD Ryzen 5 2600X Six-Core @ 4.00GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 80GB + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 16GB USB Flash Disk + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1420/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.4.8-arch1-1 (x86_64), Display Server: X Server 1.20.6, OpenGL: 4.6 Mesa 20.0.0-devel (git-7b444ba5ef) (LLVM 9.0.1), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-7b444ba5ef), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d

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 + tsx_async_abort: Not affected

4G

Processor: AMD Ryzen 5 2600X Six-Core (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 240GB CT240BX500SSD1 + 500GB HGST HTS545050A7, Graphics: XFX AMD Radeon RX 470/480/570X/580/580X/590 4GB (1386/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.5, Kernel: 5.5.0-rc5-4-tkg-acpi (x86_64), Desktop: GNOME Shell 3.34.3, Display Server: X Server 1.20.7, OpenGL: 4.6 Mesa 20.0.0-devel (git-6e1411c9e8) (LLVM 9.0.1), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-6e1411c9e8), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: CPU Microcode: 0x800820d

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 + tsx_async_abort: Not affected

4075

Processor: AMD Ryzen 5 2600X Six-Core @ 4.08GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 500GB HGST HTS545050A7 + 240GB CT240BX500SSD1, Graphics: XFX AMD Radeon RX 470/480/570X/580/580X/590 4GB (1386/1900MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 18.1.5, Kernel: 5.5.0-rc6-6-tkg-acpi (x86_64), Desktop: GNOME Shell 3.34.3, Display Server: X Server 1.20.7, OpenGL: 4.6 Mesa 20.0.0-devel (git-6e1411c9e8) (LLVM 9.0.1), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-6e1411c9e8), Vulkan: 1.1.129, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d

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 + tsx_async_abort: Not affected

noacpi-pbo

Processor: AMD Ryzen 5 2600X Six-Core (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16GB, Disk: HP SSD EX900 120GB + 500GB + 240GB CT240BX500SSD1 + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 16GB USB Flash Disk, Graphics: Sapphire AMD

Radeon RX 5700 / XT 6GB (1820/930MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.5.1-9-noacpi-nopatch (x86_64), Display Server: X Server 1.20.7, OpenGL: 4.6 Mesa 20.0.0-devel (git-02658df152) (LLVM 9.0.1), OpenCL: OpenCL 1.1 Mesa 20.0.0-devel (git-02658df152), Vulkan: 1.1.130, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff
Environment Notes: AMD_DEBUG=nongg
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: CPU Microcode: 0x800820d
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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

Deepcool

Processor: AMD Ryzen 5 2600X Six-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16GB, Disk: HP SSD EX900 120GB + 240GB CT240BX500SSD1 + 500GB + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 16GB USB Flash Disk, Graphics: Sapphire AMD Radeon RX 5700 / XT 6GB (1780/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.5.2-11-tkg-pds (x86_64), Display Server: X Server 1.20.7, OpenGL: 4.6 Mesa 20.0.0-rc1 (git-14c0d58c7f) (LLVM 9.0.1), OpenCL: OpenCL 1.1 Mesa 20.0.0-rc1 (git-14c0d58c7f), Vulkan: 1.1.130, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff
Environment Notes: AMD_DEBUG=nongg
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

muqss

Processor: AMD Ryzen 5 2600X Six-Core @ 4.08GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16GB, Disk: HP SSD EX900 120GB + 240GB CT240BX500SSD1 + 500GB + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 16GB USB Flash Disk, Graphics: Sapphire AMD Radeon RX 5700 / XT 6GB (1780/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.5.2-12-tkg-muqss (x86_64), Display Server: X Server 1.20.7, OpenGL: 4.6 Mesa 20.1.0-devel (git-35961b10da) (LLVM 9.0.1), OpenCL: OpenCL 1.1 Mesa 20.1.0-devel (git-35961b10da), Vulkan: 1.1.130, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff
Environment Notes: AMD_DEBUG=nongg
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

5.6

Processor: AMD Ryzen 5 2600X Six-Core (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16GB, Disk: HP SSD EX900 120GB + 500GB + 240GB CT240BX500SSD1 + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 16GB USB Flash Disk, Graphics: Sapphire AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 6GB (1780/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Arch rolling, Kernel: 5.6.0-rc1-1-tkg-pds (x86_64), Display Server: X Server 1.20.7, OpenGL: 4.6 Mesa 20.1.0-devel (git-35961b10da) (LLVM 9.0.1), OpenCL: OpenCL 1.1 Mesa 20.1.0-devel (git-35961b10da), Vulkan: 1.1.130, Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff

Environment Notes: AMD_DEBUG=nong

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: CPU Microcode: 0x800820d

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 retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

fancontrol

Processor: AMD Ryzen 5 2600X Six-Core (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 240GB CT240BX500SSD1 + 500GB + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 16GB USB Flash Disk, Graphics: Sapphire AMD Radeon RX 5700 / XT 6GB (1780/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 19.0.0, Kernel: 5.6.0-rc1-1-tkg-pds (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.7, Display Driver: modesetting 1.20.7, OpenGL: 4.5 Mesa 19.3.4 (LLVM 9.0.1), Compiler: GCC 9.2.0 + Clang 9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Environment Notes: AMD_DEBUG=nong

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: CPU Microcode: 0x800820d

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 retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

noacpi-5.6

Processor: AMD Ryzen 5 2600X Six-Core @ 4.05GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 240GB CT240BX500SSD1 + 500GB + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS + 16GB USB Flash Disk, Graphics: Sapphire AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 6GB (1780/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 19.0, Kernel: 5.6.0-rc2-1-tkg-pds (x86_64), Display Server: X Server 1.20.7, Display Driver: modesetting 1.20.7, OpenGL: 4.5 Mesa 19.3.4 (LLVM 9.0.1), Vulkan: 1.1.107, Compiler: GCC 9.2.1 20200130 + Clang

9.0.1 + LLVM 9.0.1, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffffff
Environment Notes: AMD_DEBUG=nong
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

5.6-tkg-pds-acpi

5.6-tkg-acpi-nmon

4100-5.6

Processor: AMD Ryzen 5 2600X Six-Core @ 4.05GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 240GB CT240BX500SSD1 + 500GB + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS, Graphics: Sapphire AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 6GB (1780/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 19.0, Kernel: 5.6.0-rc2-1-tkg-pds (x86_64), Display Server: X Server 1.20.7, Display Driver: modesetting 1.20.7, OpenGL: 4.6 Mesa 20.1.0-devel (git-740cb3d193) (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 9.2.1 20200130 + Clang 11.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff amdgpu.dc=1
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

5.6-tkg-acpi-pbo

4150

Processor: AMD Ryzen 5 2600X Six-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 240GB CT240BX500SSD1 + 500GB + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS, Graphics: Sapphire AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 6GB (1780/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 19.0, Kernel: 5.6.0-rc2-1-tkg-pds (x86_64), Display Server: X Server 1.20.7, Display Driver: modesetting 1.20.7, OpenGL: 4.6 Mesa 20.1.0-devel (git-740cb3d193) (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 9.2.1 20200130 + Clang 11.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.pffeaturemask=0xffffd7fff amdgpu.dc=1
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

bmq

Processor: AMD Ryzen 5 2600X Six-Core @ 4.08GHz (6 Cores / 12 Threads), Motherboard: ASRock B450M/ac (P1.20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: HP SSD EX900 120GB + 240GB CT240BX500SSD1 + 500GB + 2 x 500GB Seagate ST500LT012-1DG14 + 640GB TOSHIBA MK6475GS, Graphics: Sapphire AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 6GB (1780/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: L185V + E420i-B0, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

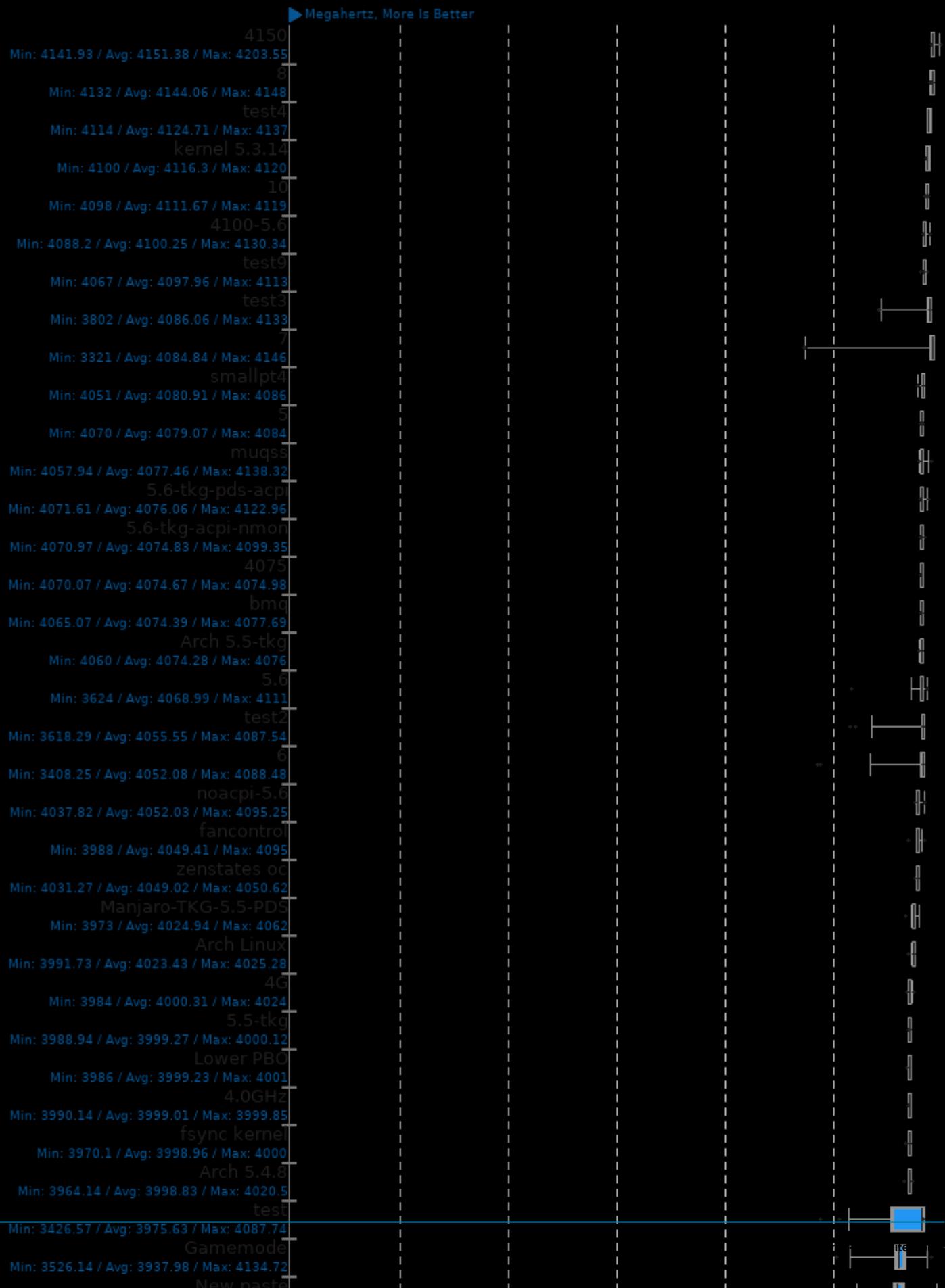
OS: ManjaroLinux 19.0, Kernel: 5.5.4-15-tkg-bmq (x86_64), Display Server: X Server 1.20.7, Display Driver: modesetting 1.20.7, OpenGL: 4.6 Mesa 20.1.0-devel (git-5de8bc7c75) (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 9.2.1 20200130 + Clang 11.0.0, File-System: ext4, Screen Resolution: 3286x1080

Kernel Notes: amdgpu.ppfeaturemask=0xffffd7fff amdgpu.dc=1
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style-gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x800820d
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 + tsx_async_abort: Not affected

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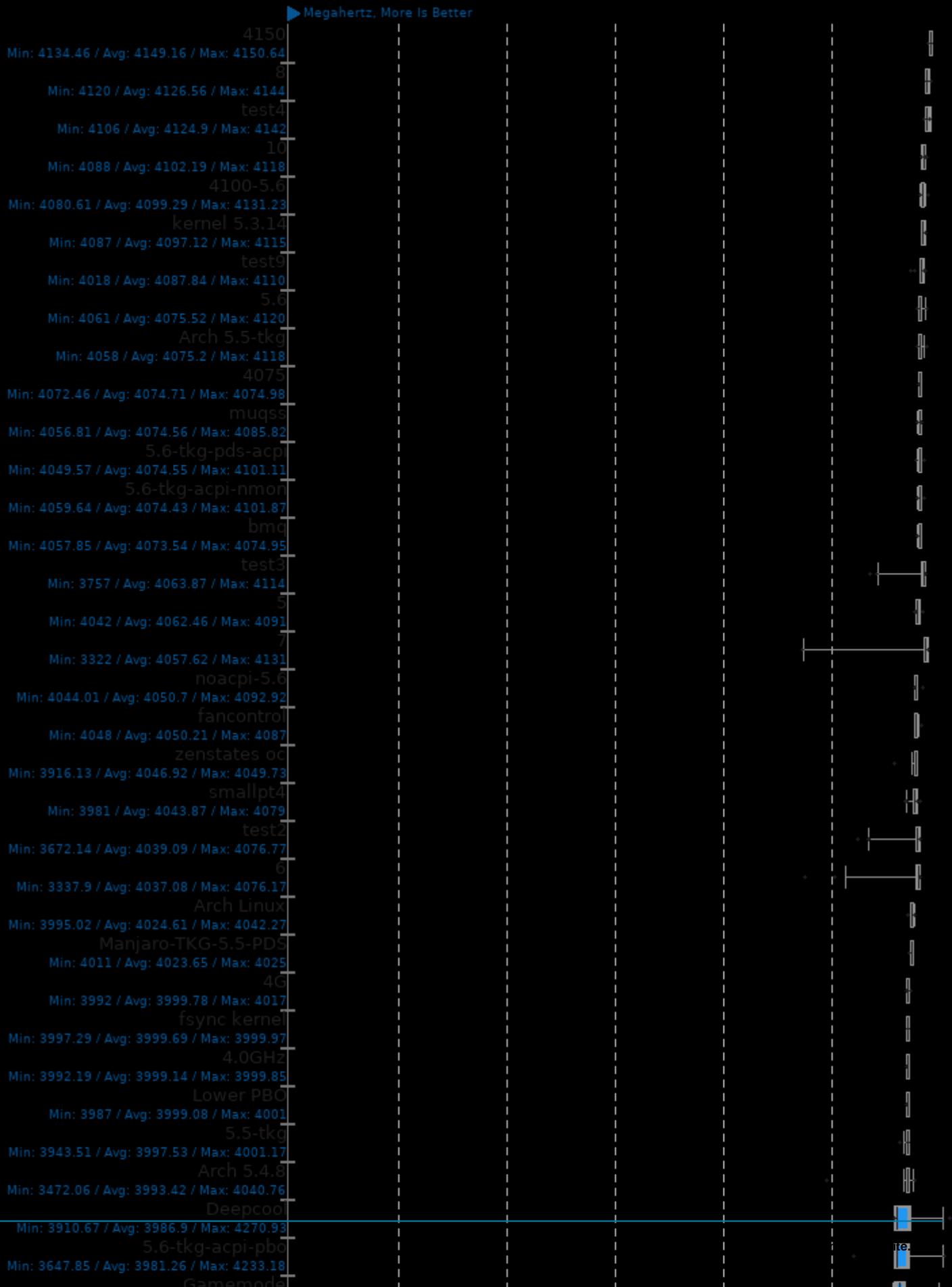
Smallpt 1.0

CPU Frequency (CPU0) Monitor



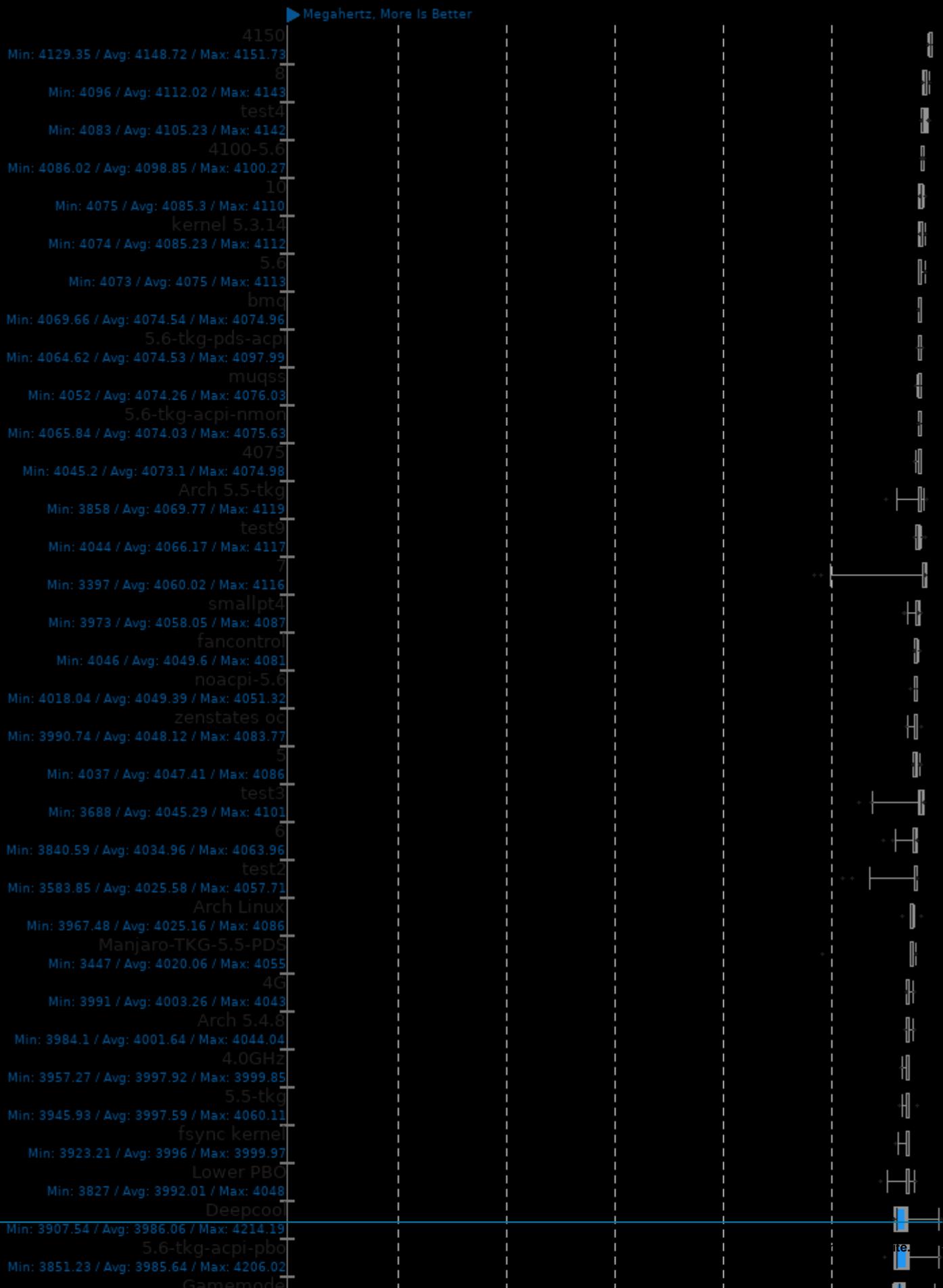
Smallpt 1.0

CPU Frequency (CPU1) Monitor



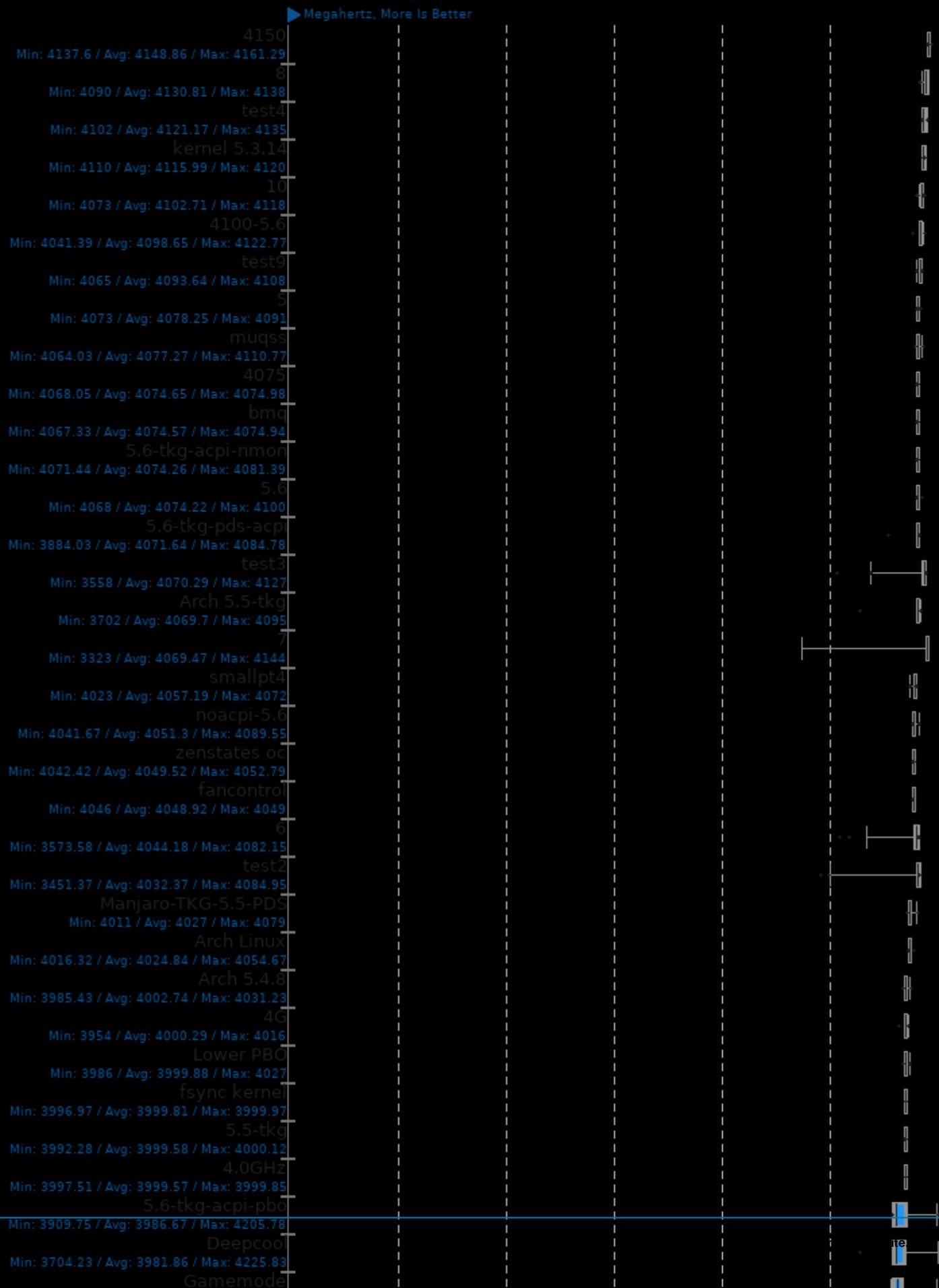
Smallpt 1.0

CPU Frequency (CPU2) Monitor



Smallpt 1.0

CPU Frequency (CPU3) Monitor



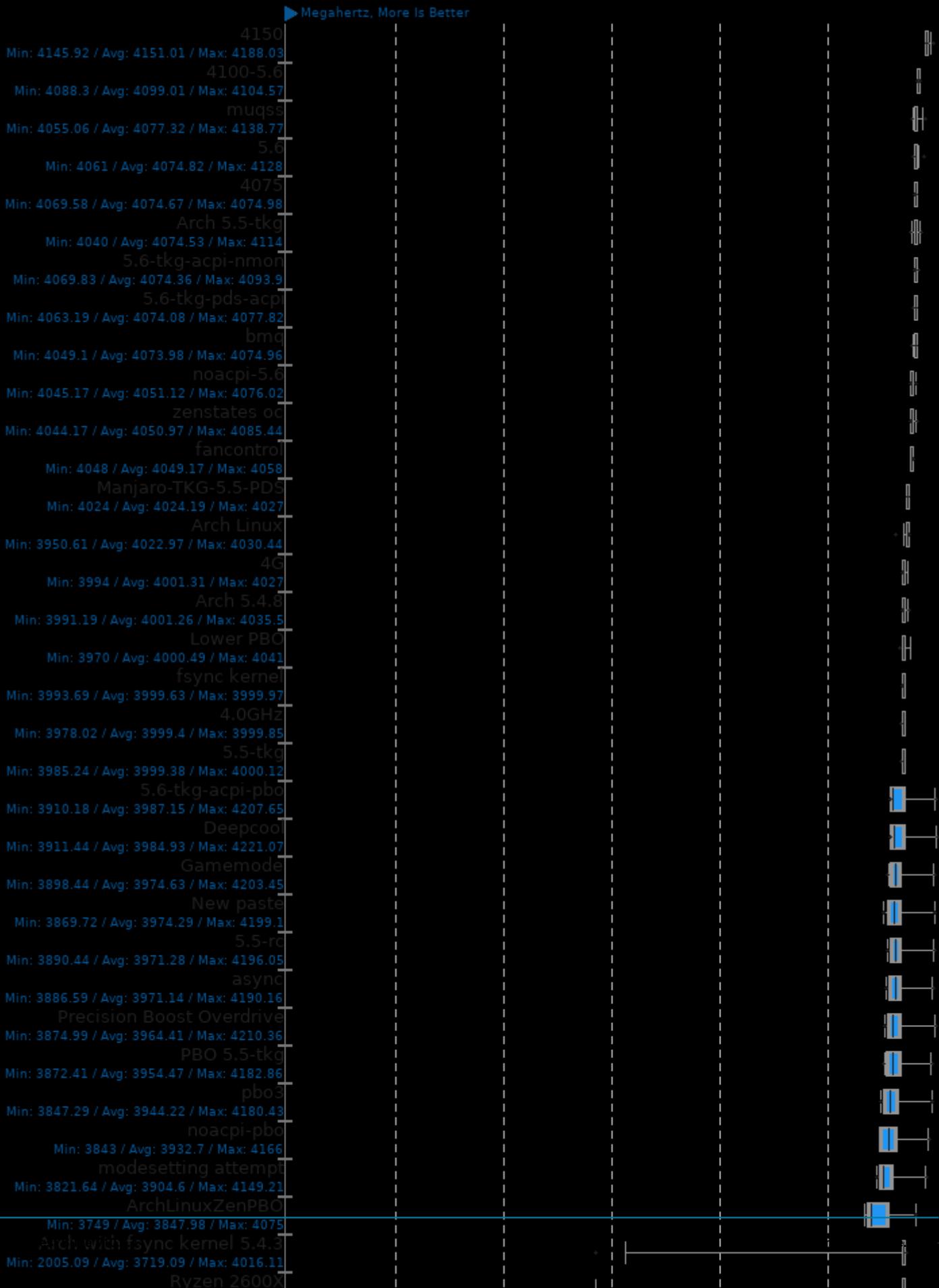
Smallpt 1.0

CPU Peak Freq (Highest CPU Core Frequency) Monitor



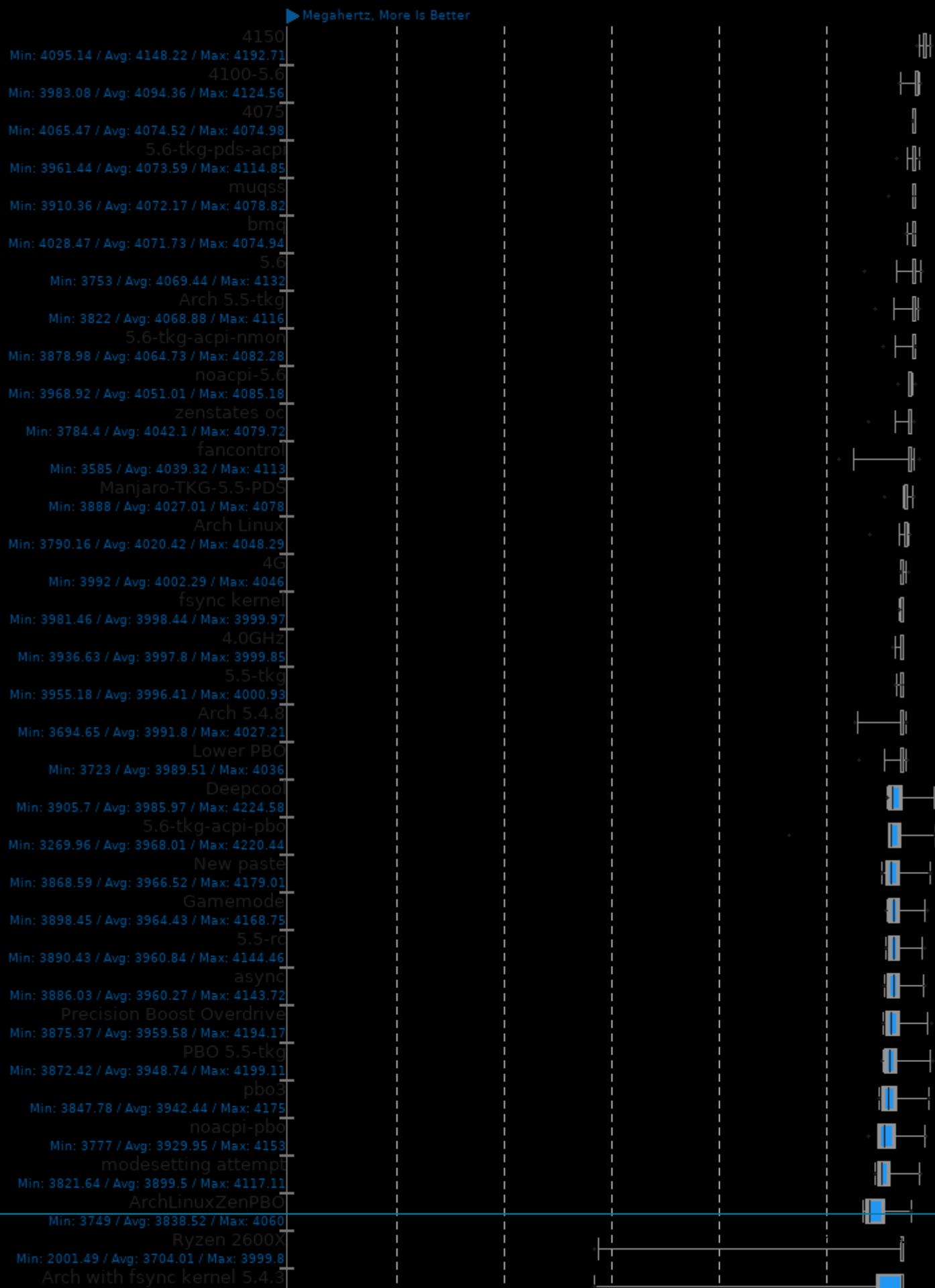
Smallpt 1.0

CPU Frequency (CPU4) Monitor



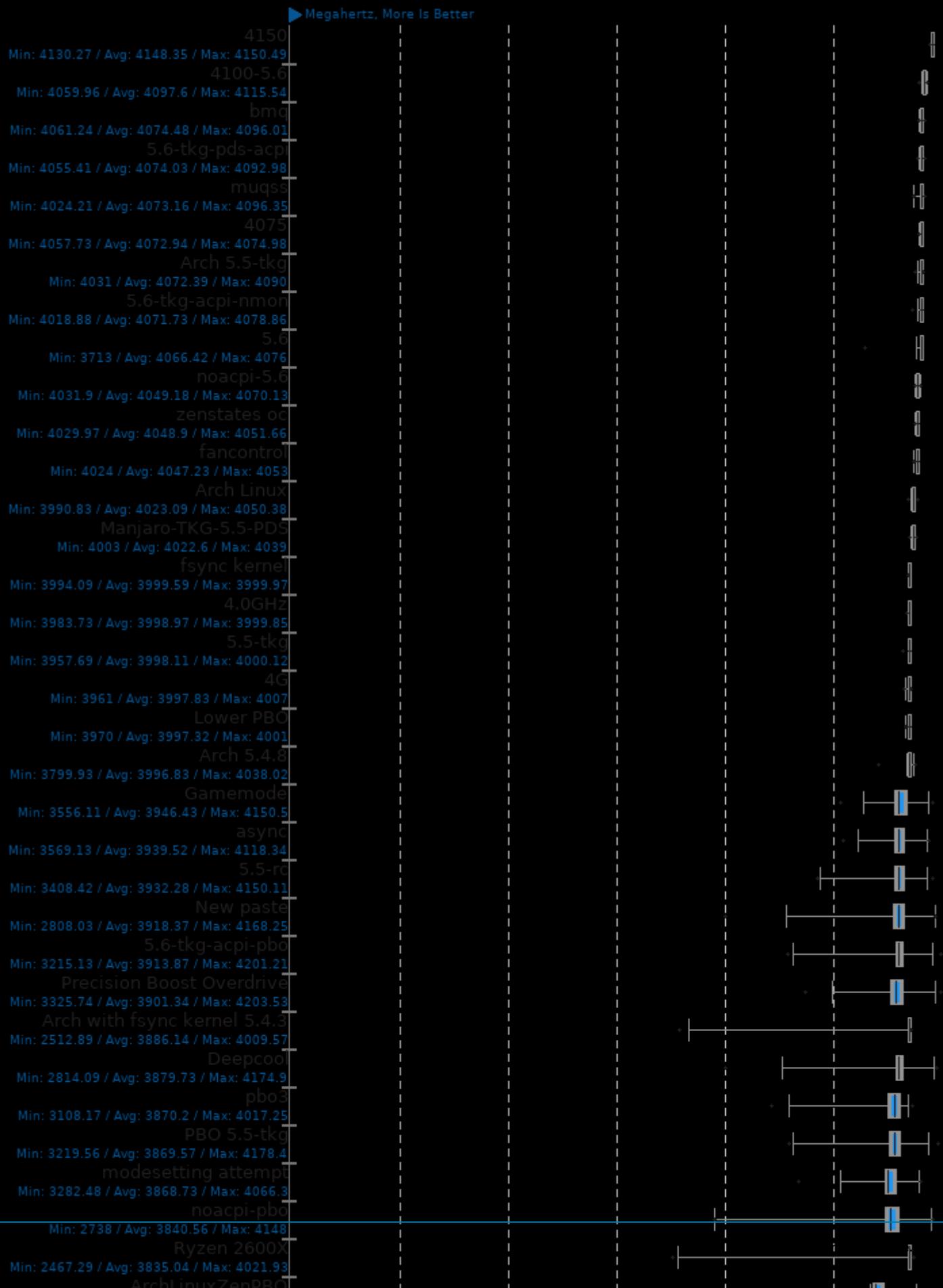
Smallpt 1.0

CPU Frequency (CPU5) Monitor



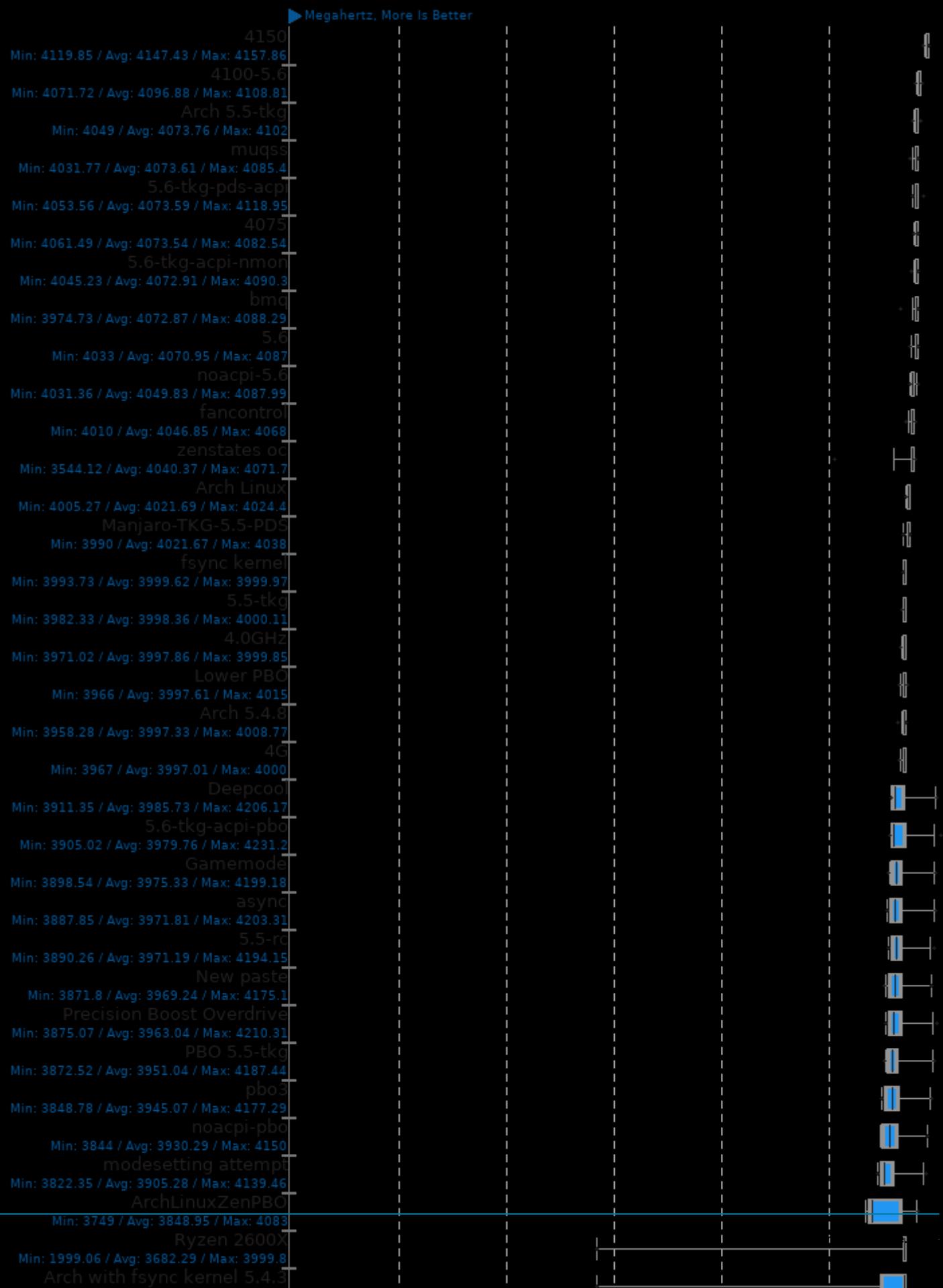
Smallpt 1.0

CPU Frequency (CPU6) Monitor



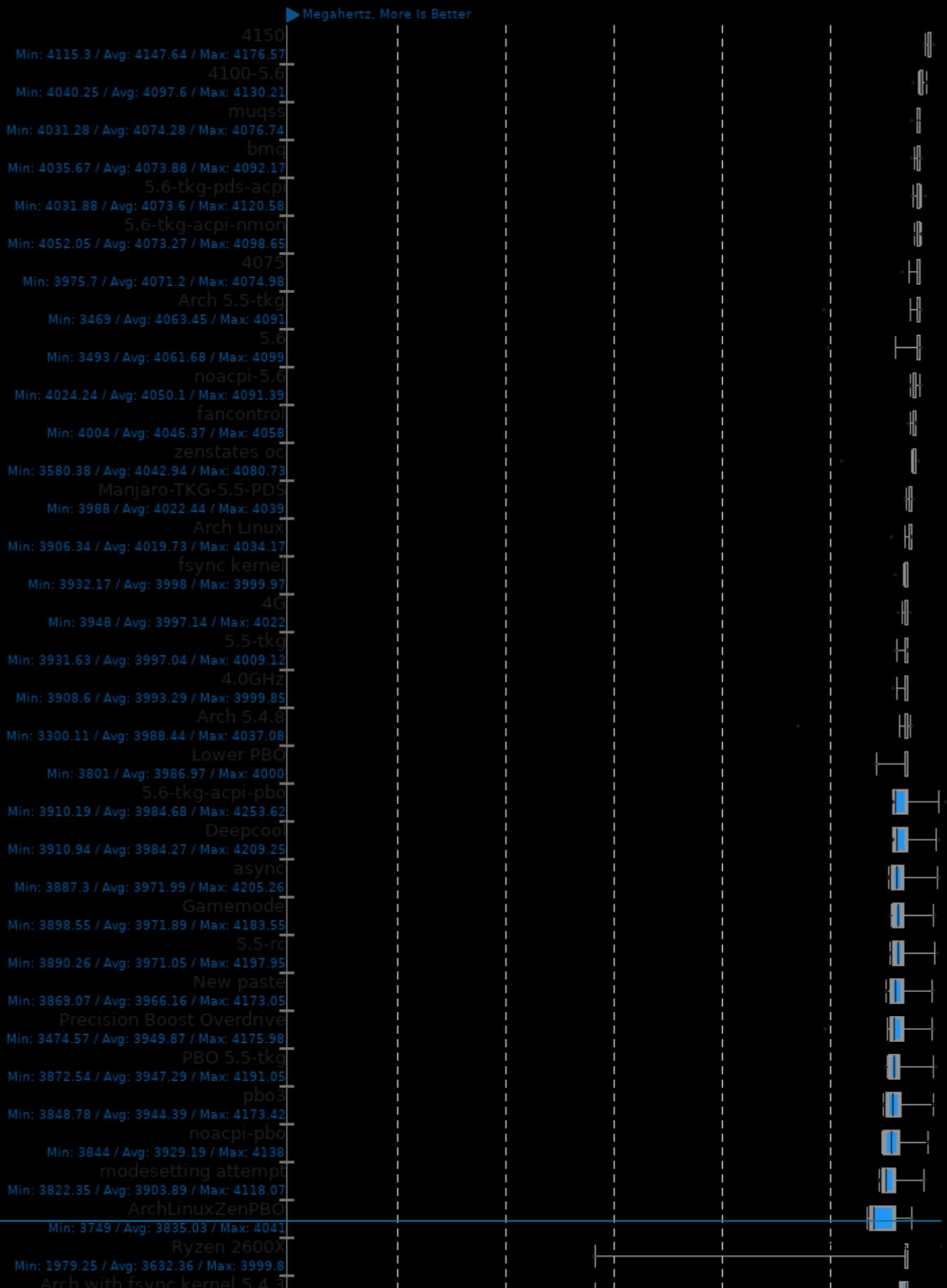
Smallpt 1.0

CPU Frequency (CPU7) Monitor



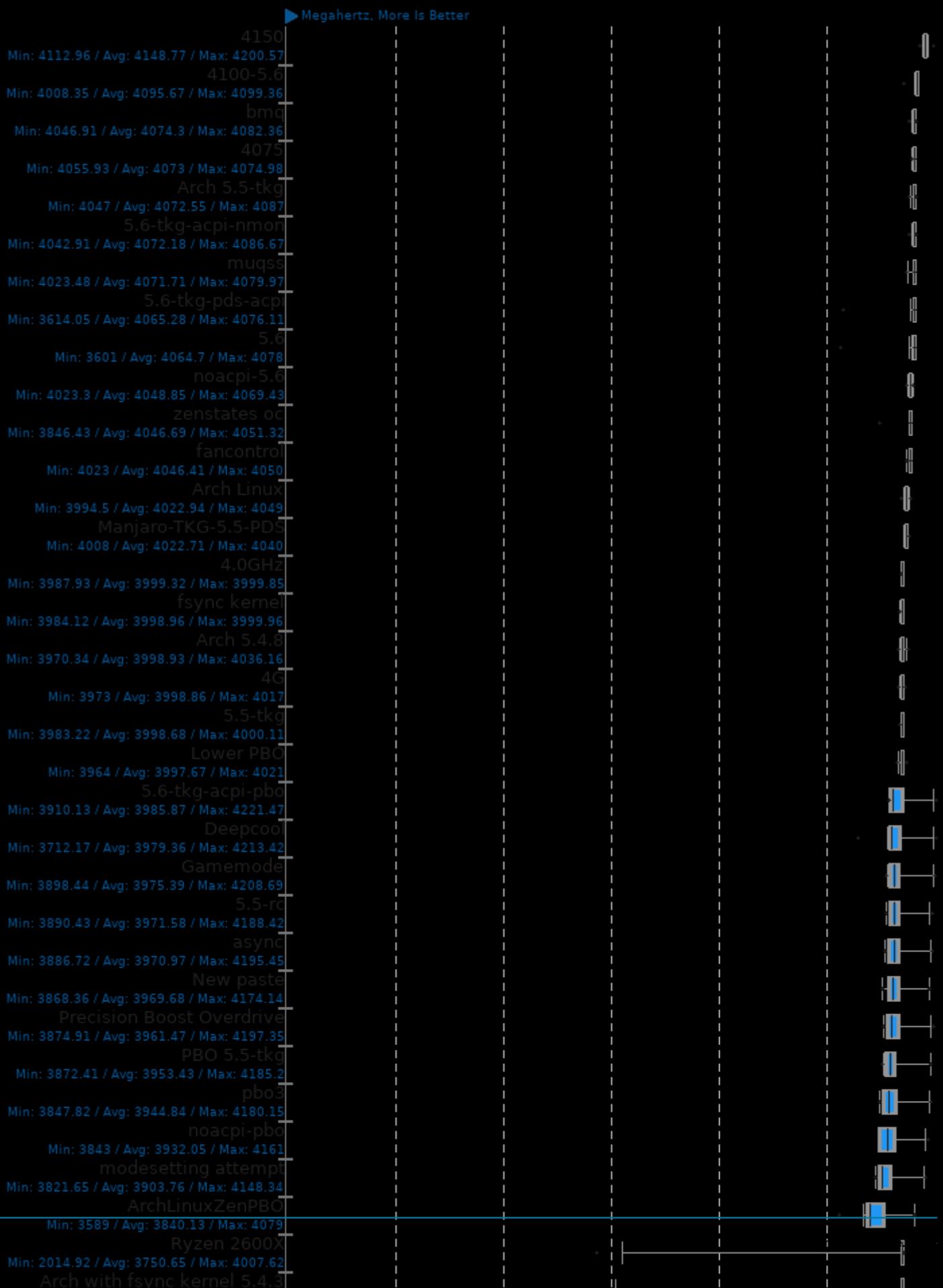
Smallpt 1.0

CPU Frequency (CPU8) Monitor



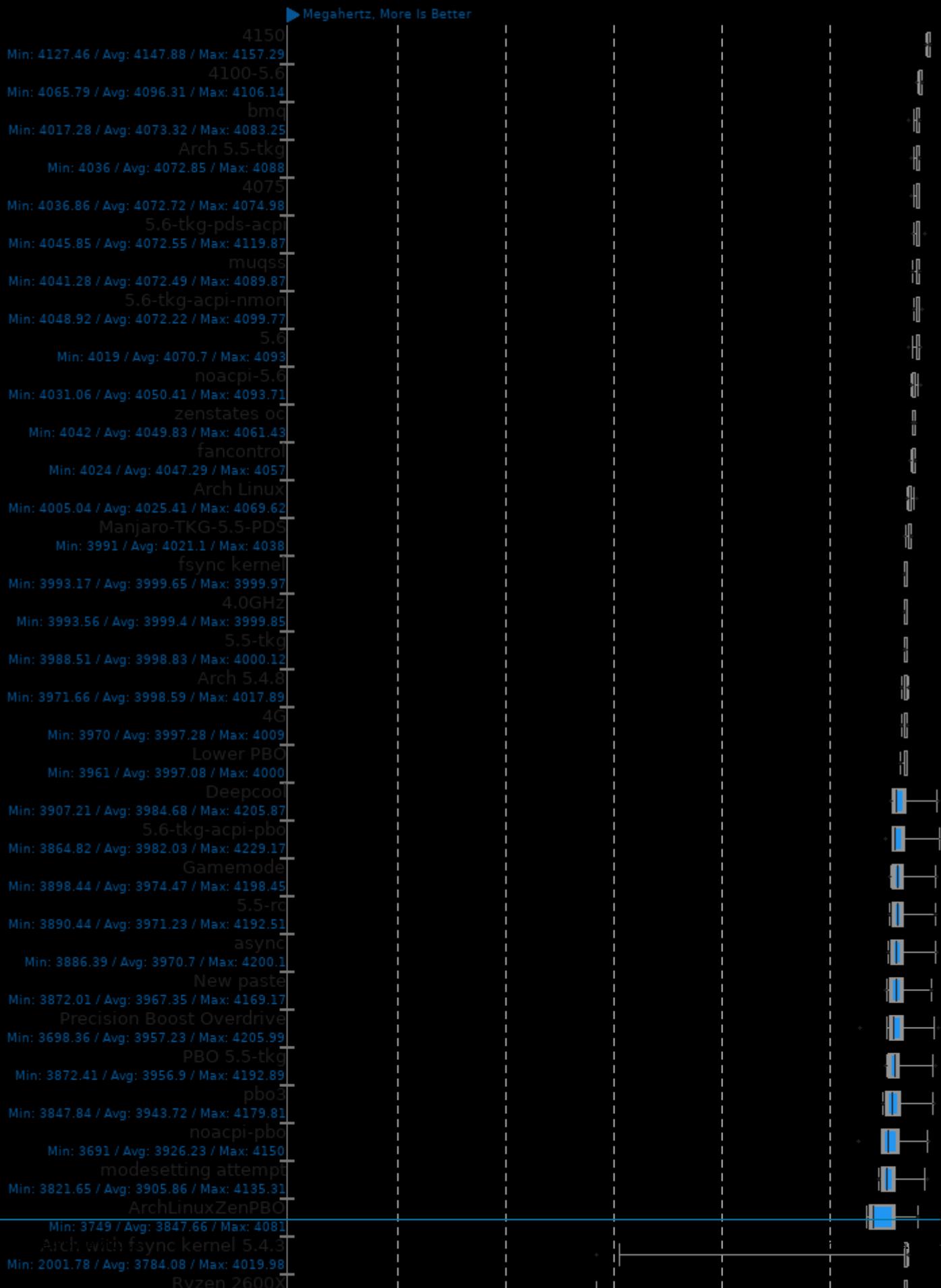
Smallpt 1.0

CPU Frequency (CPU9) Monitor



Smallpt 1.0

CPU Frequency (CPU10) Monitor



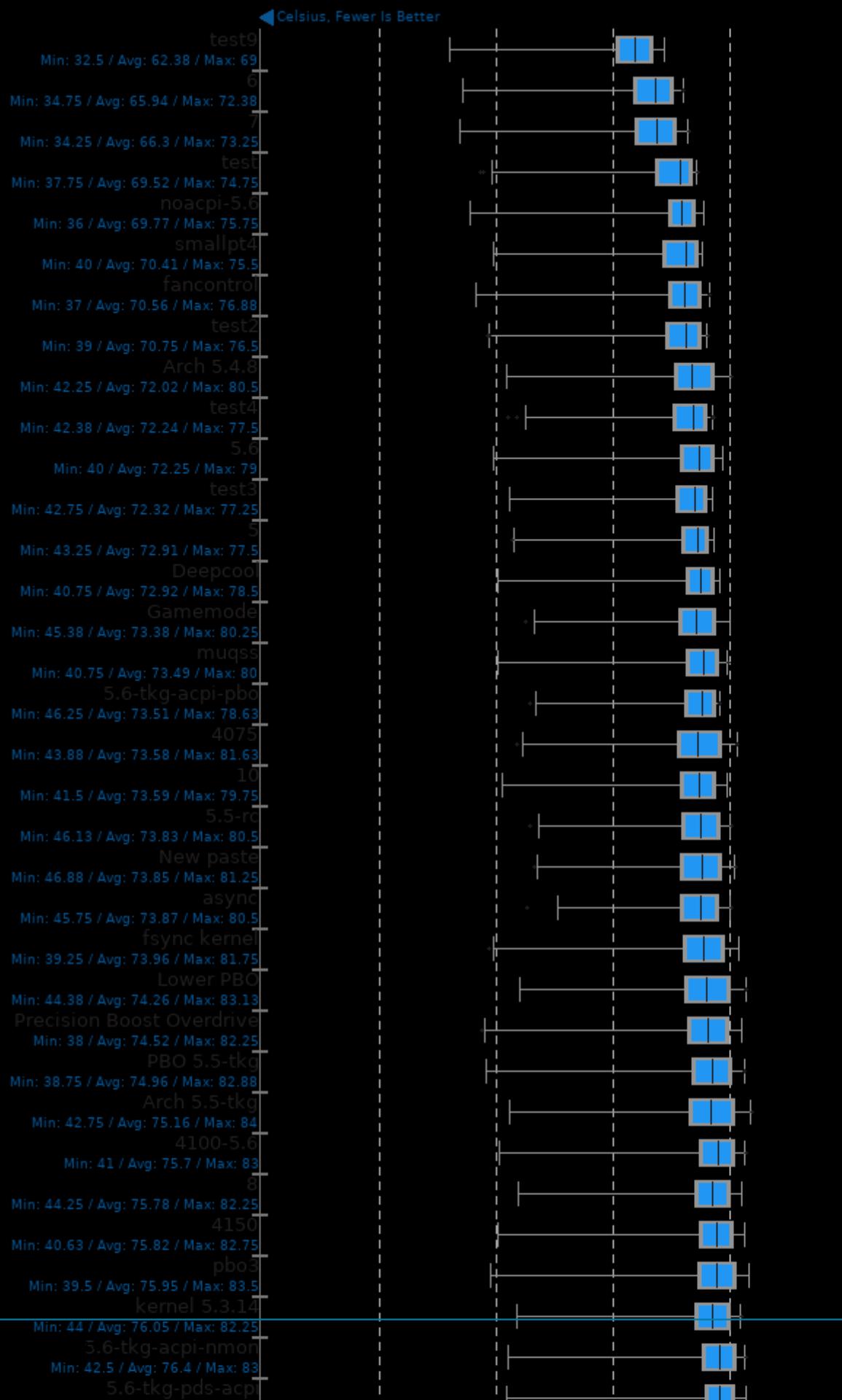
Smallpt 1.0

CPU Frequency (CPU11) Monitor



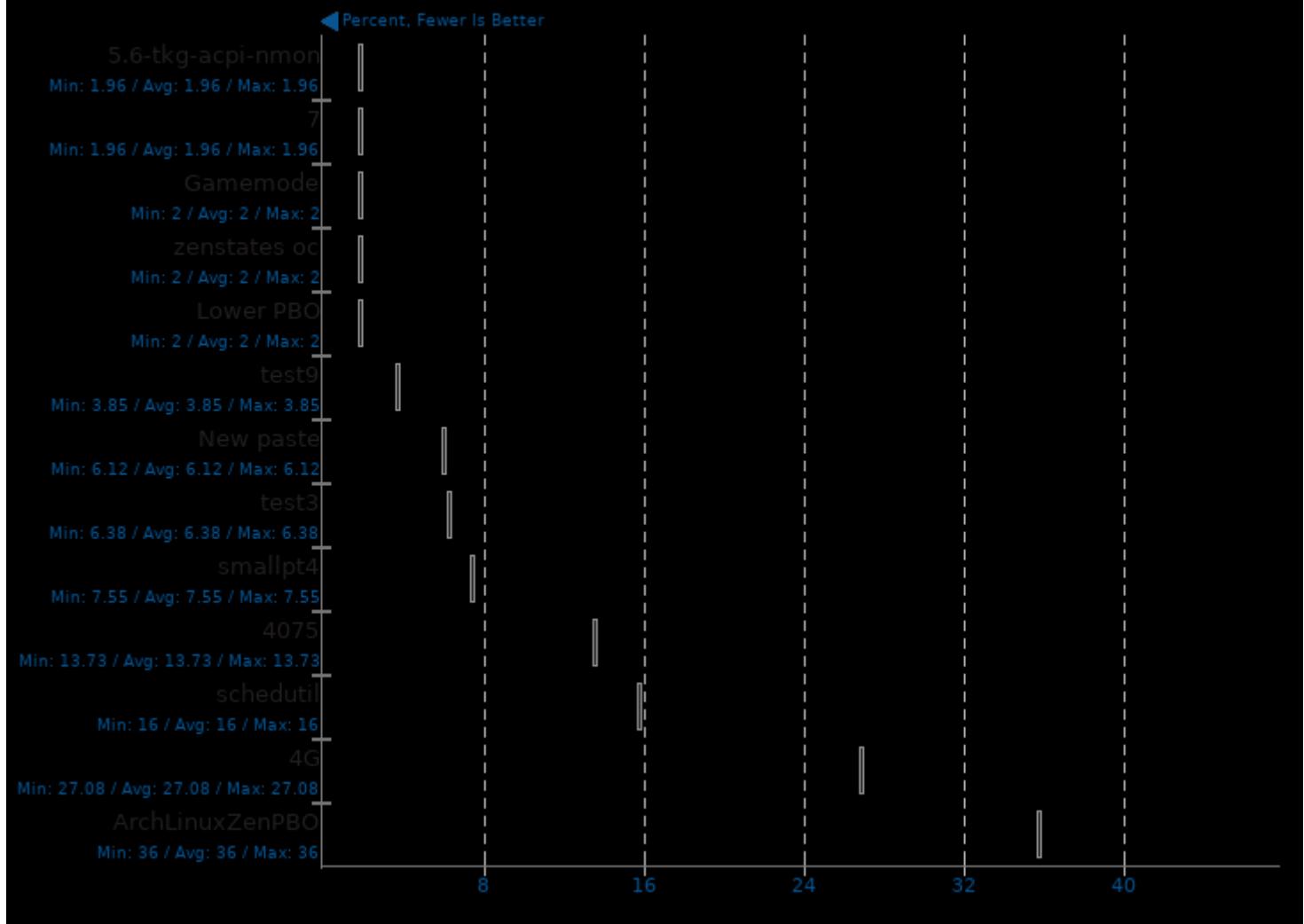
Smallpt 1.0

CPU Temperature Monitor

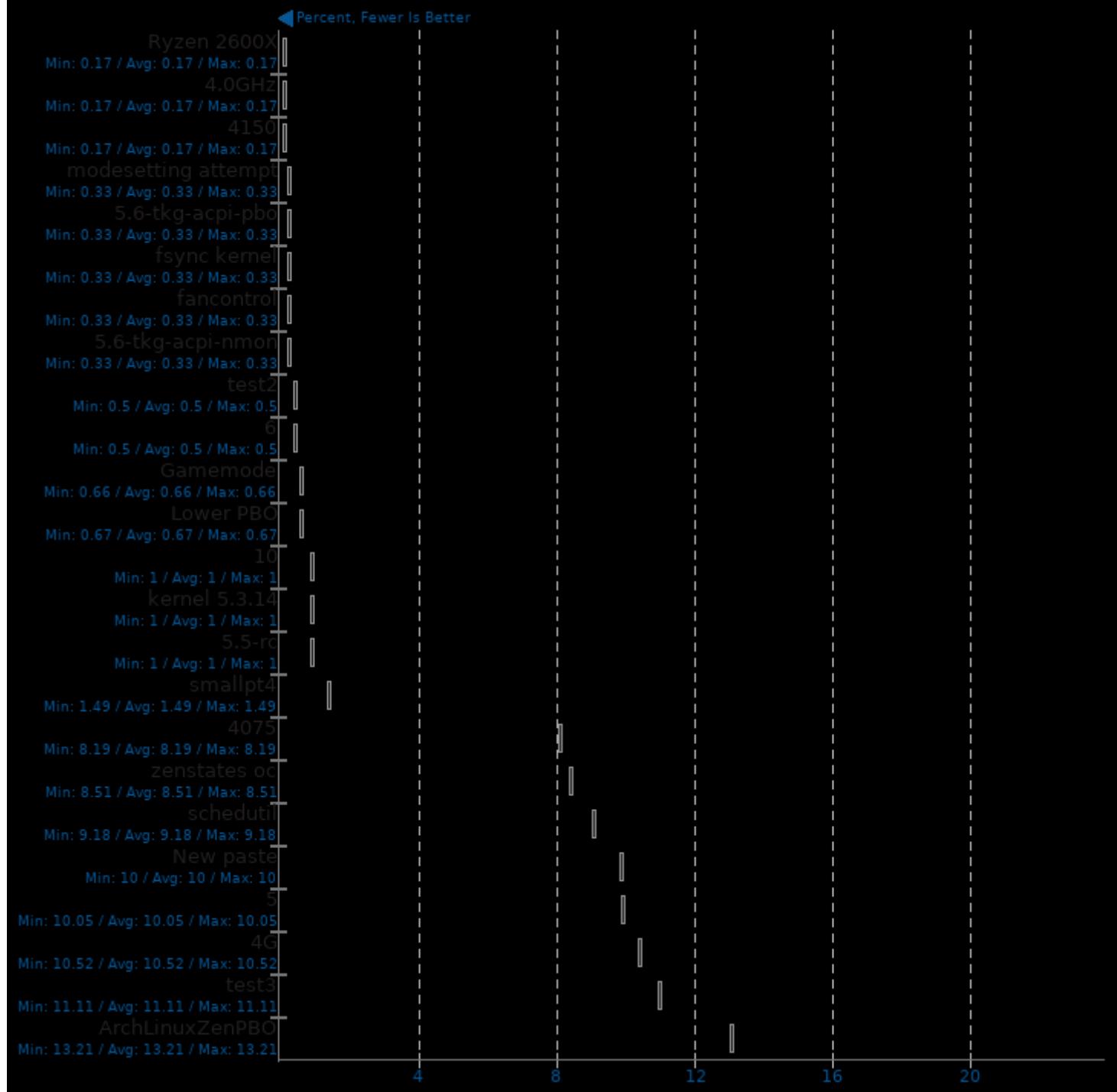


Smallpt 1.0

CPU Usage (CPU3) Monitor

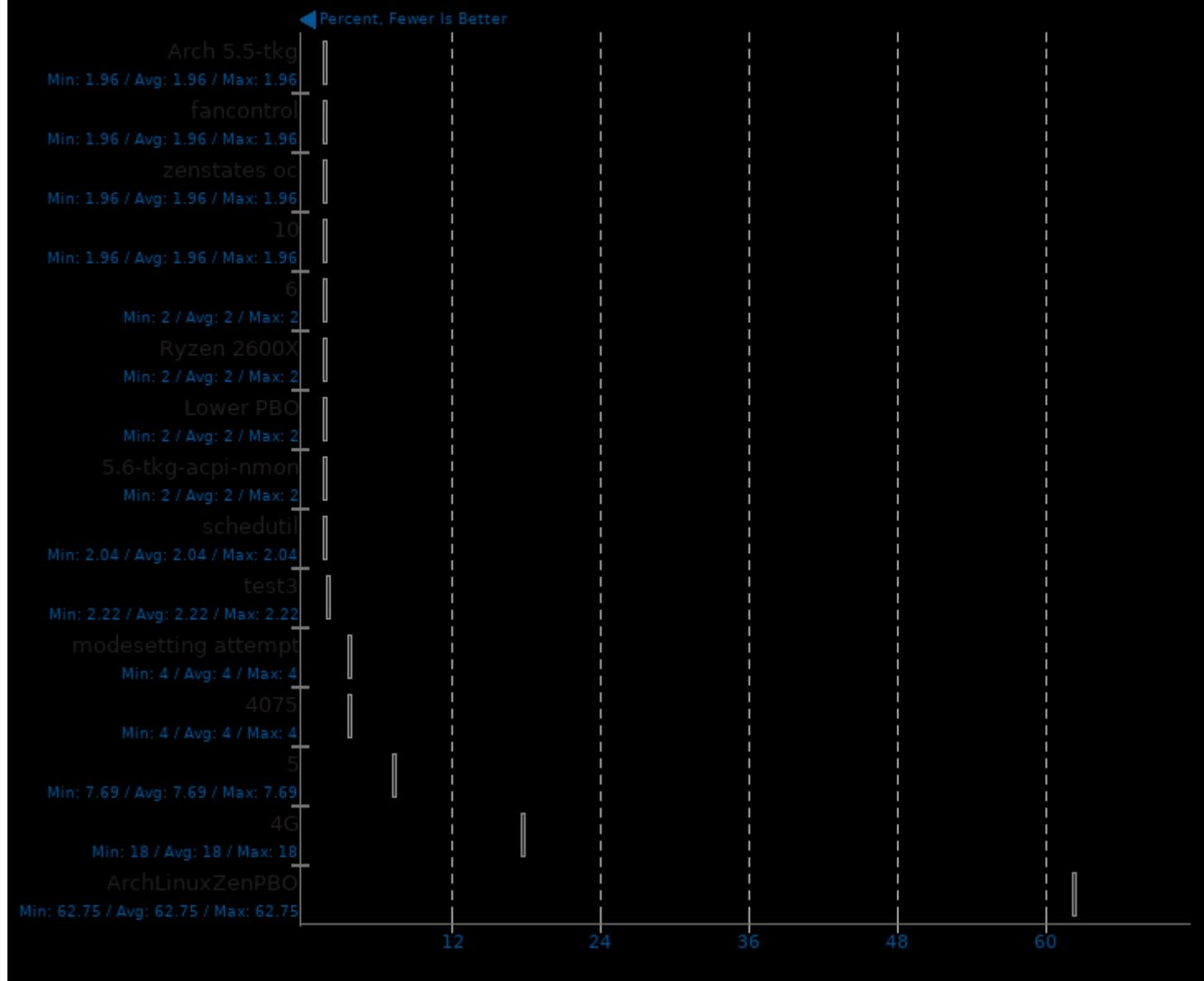


Smallpt 1.0 CPU Usage (Summary) Monitor



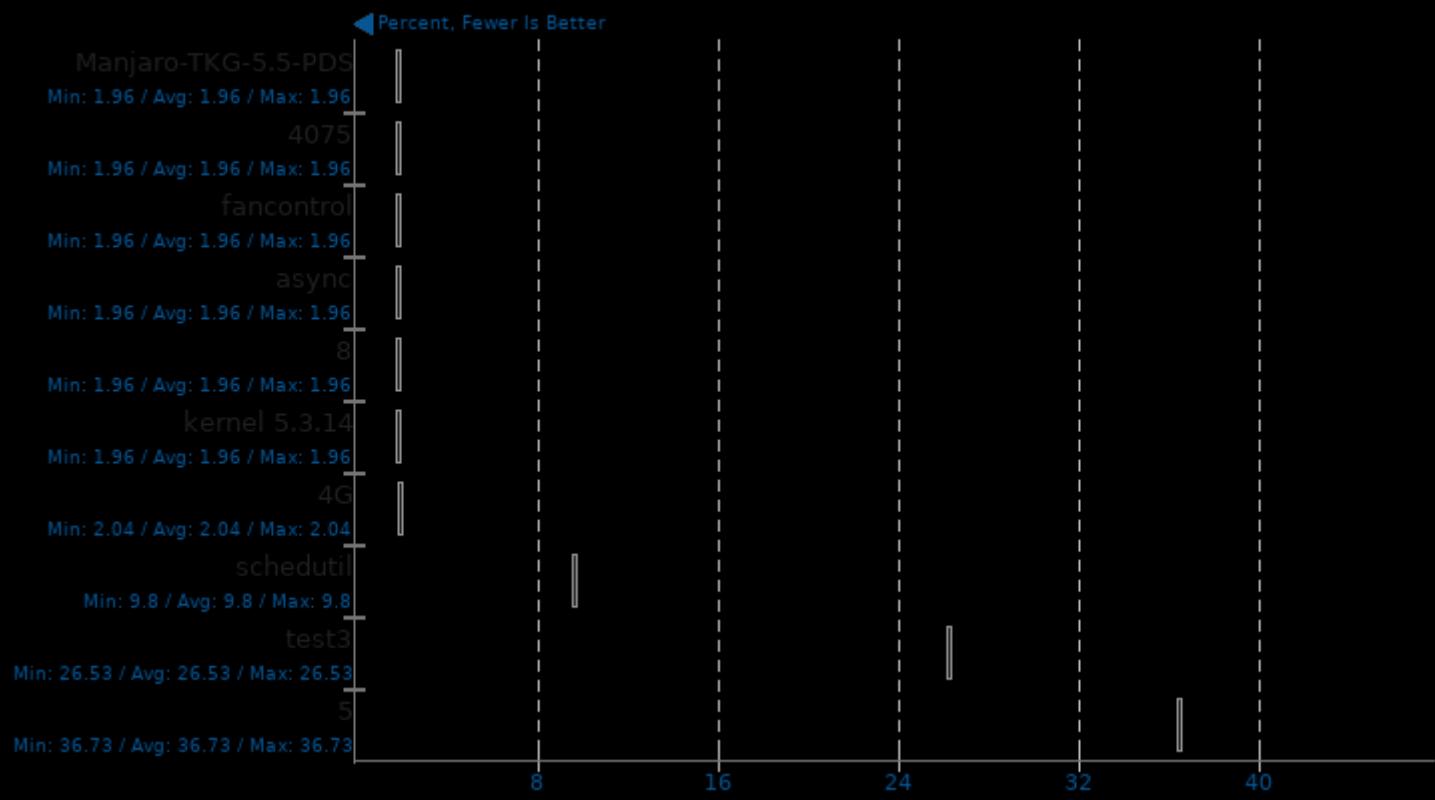
Smallpt 1.0

CPU Usage (CPU0) Monitor



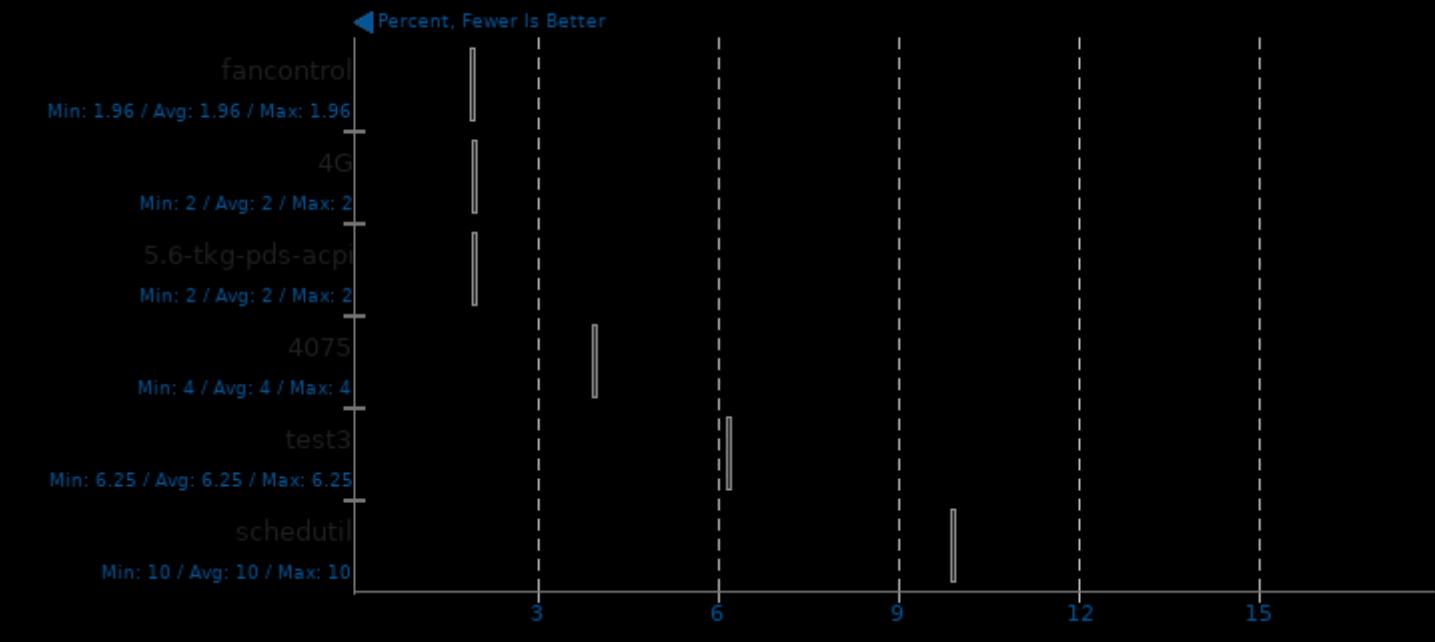
Smallpt 1.0

CPU Usage (CPU1) Monitor



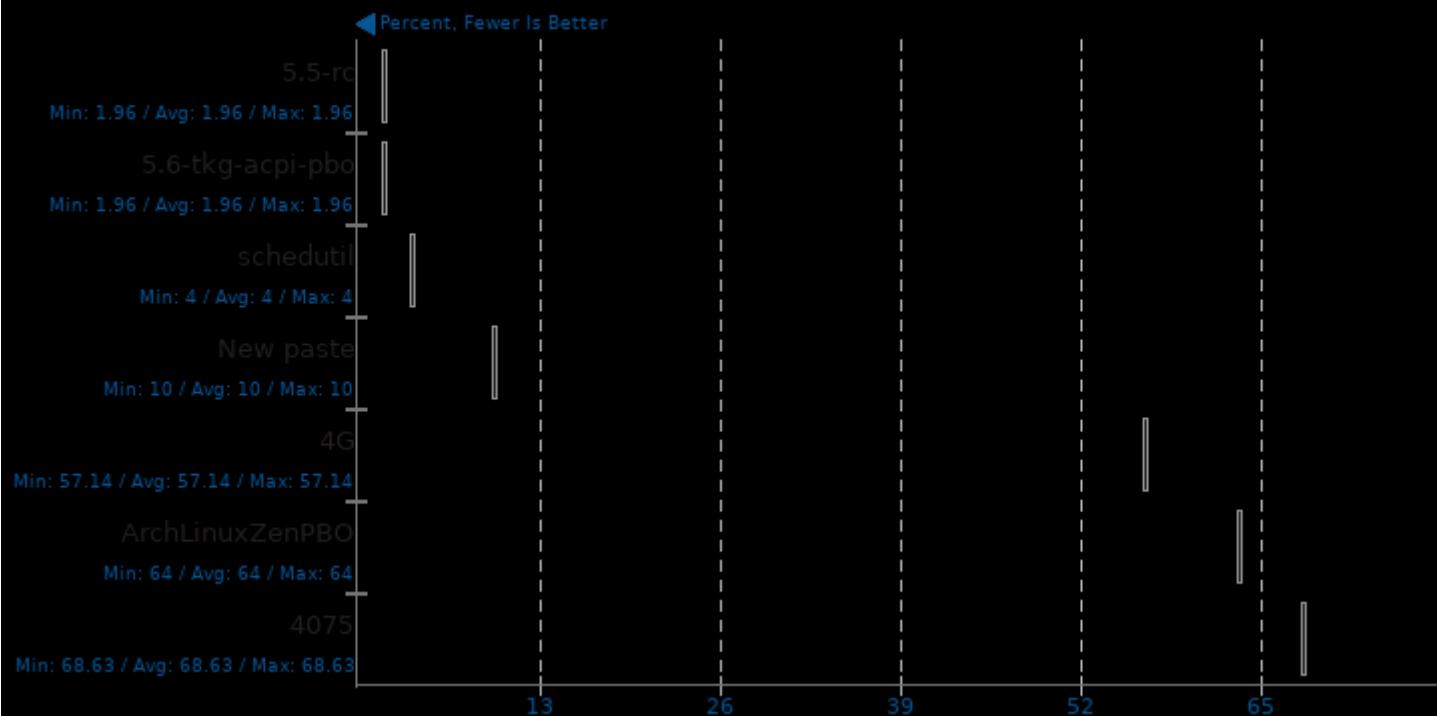
Smallpt 1.0

CPU Usage (CPU2) Monitor



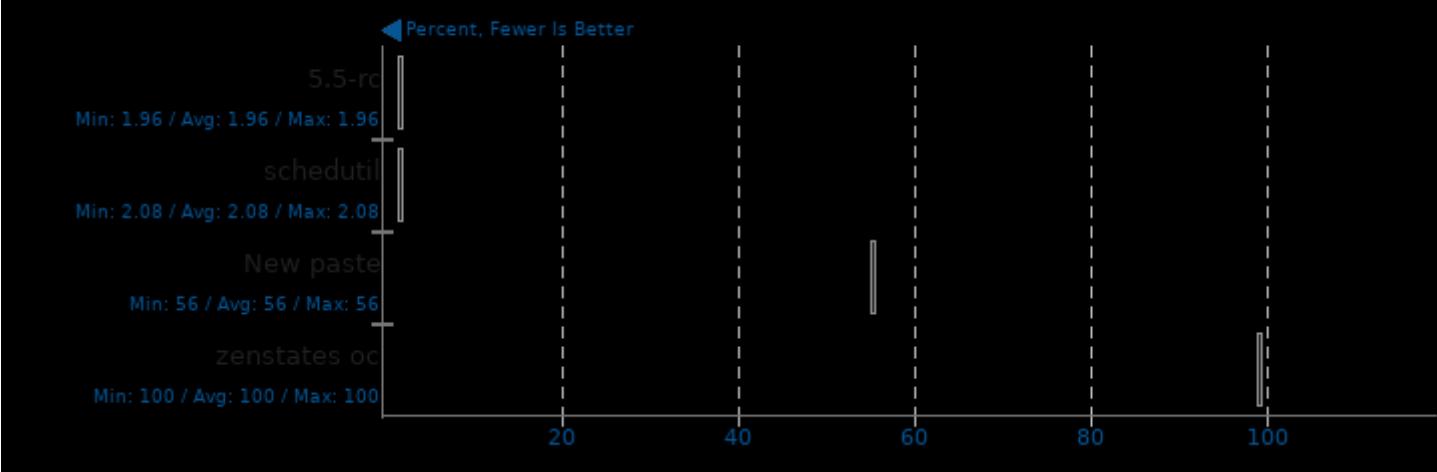
Smallpt 1.0

CPU Usage (CPU5) Monitor



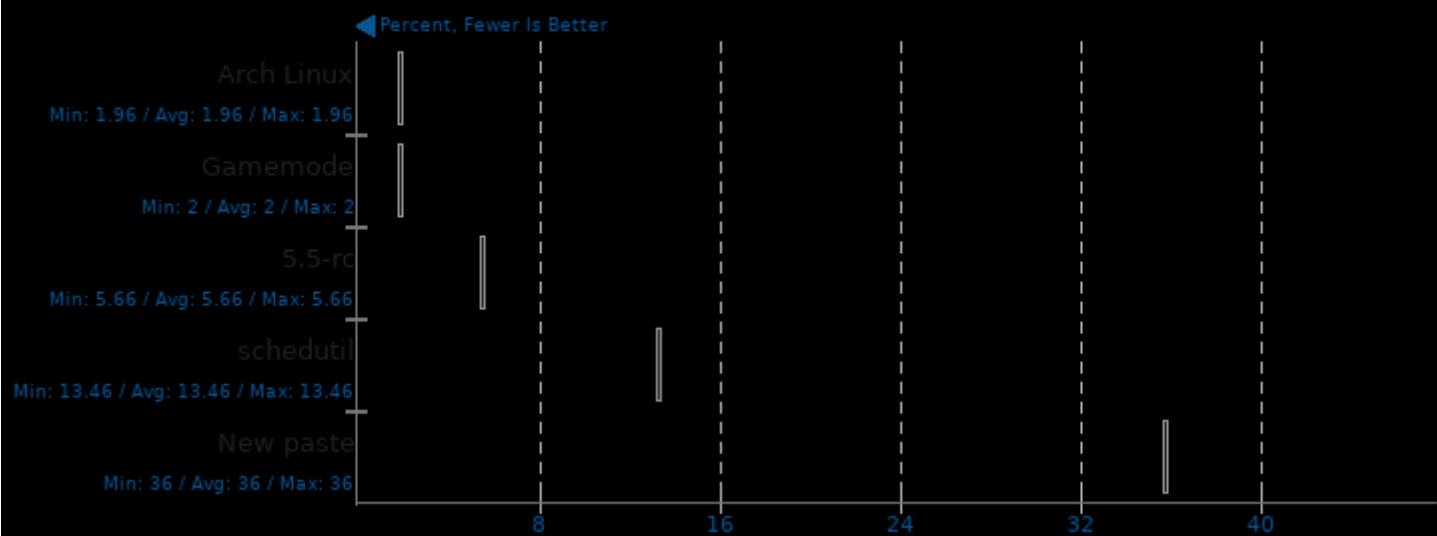
Smallpt 1.0

CPU Usage (CPU10) Monitor



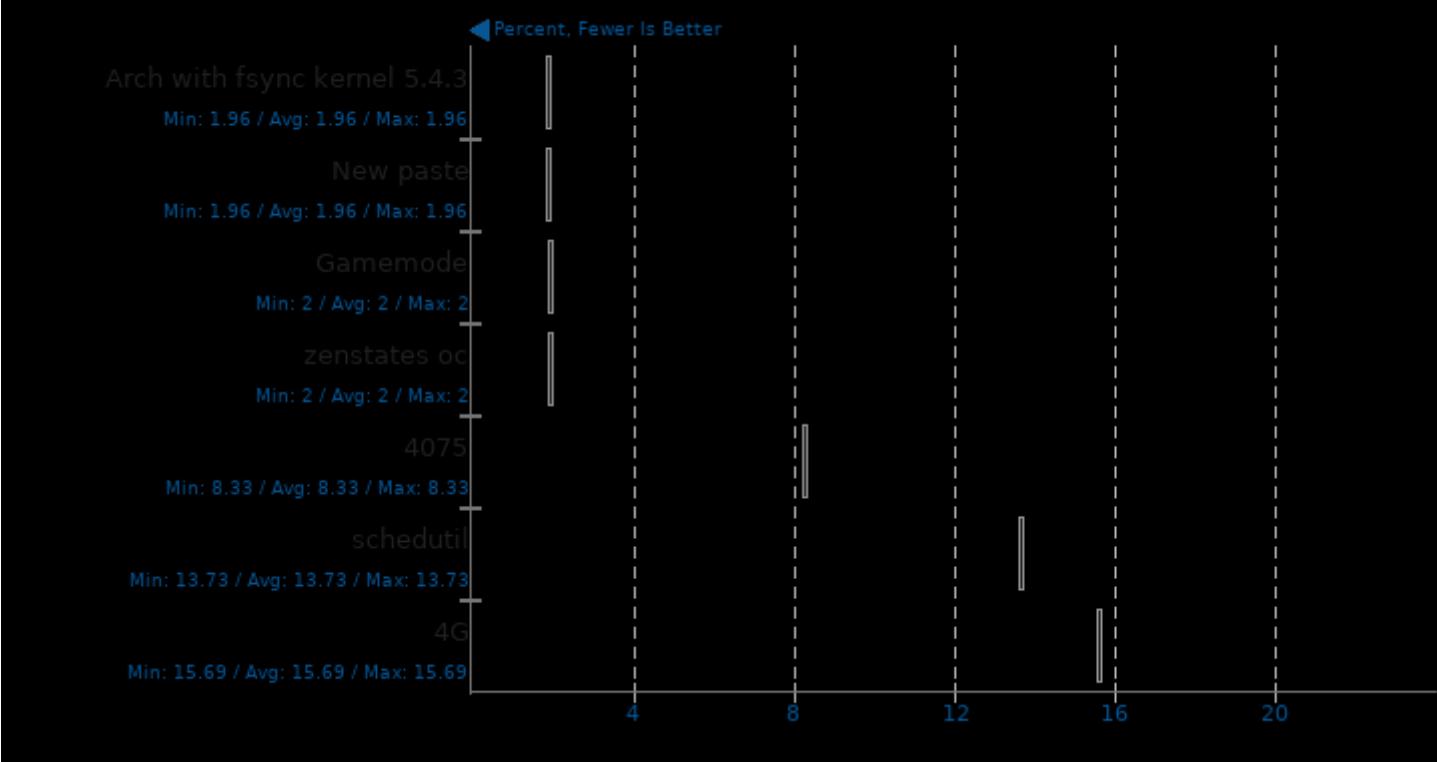
Smallpt 1.0

CPU Usage (CPU11) Monitor



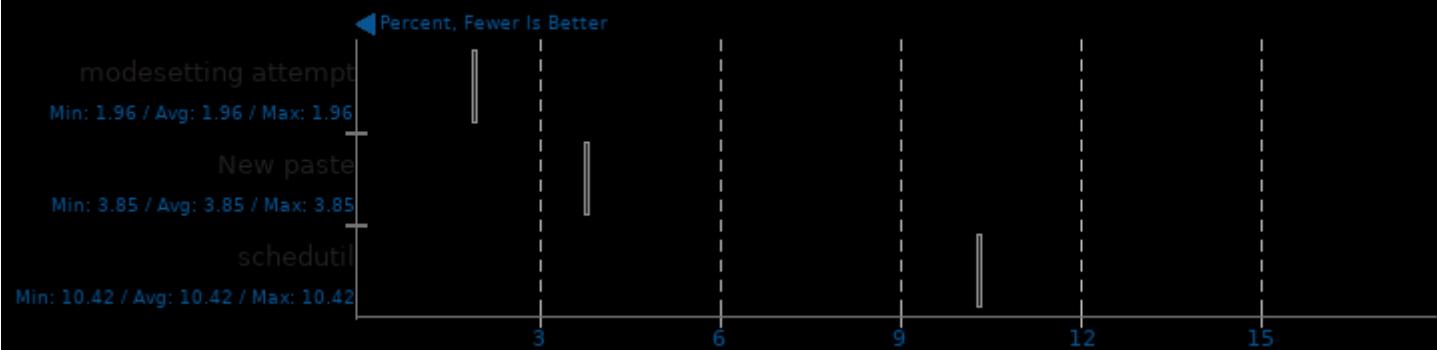
Smallpt 1.0

CPU Usage (CPU4) Monitor



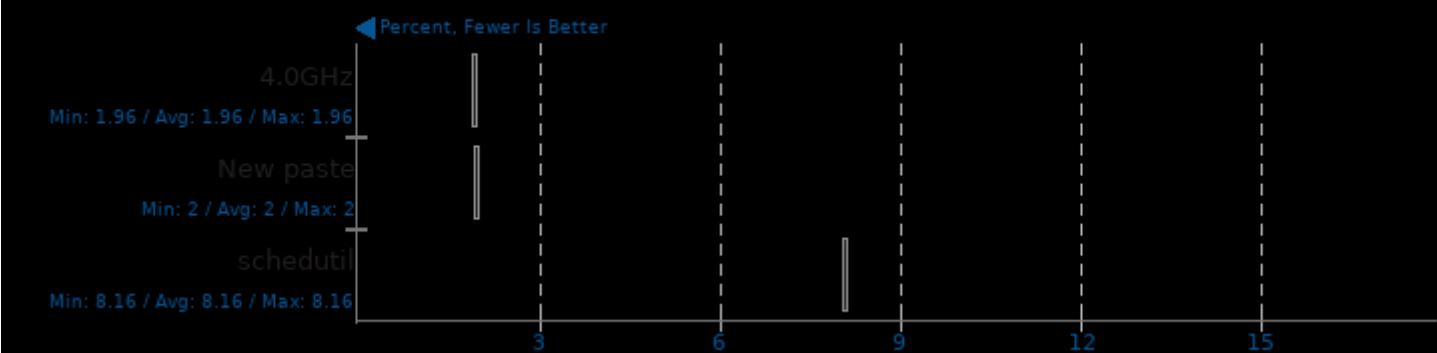
Smallpt 1.0

CPU Usage (CPU9) Monitor



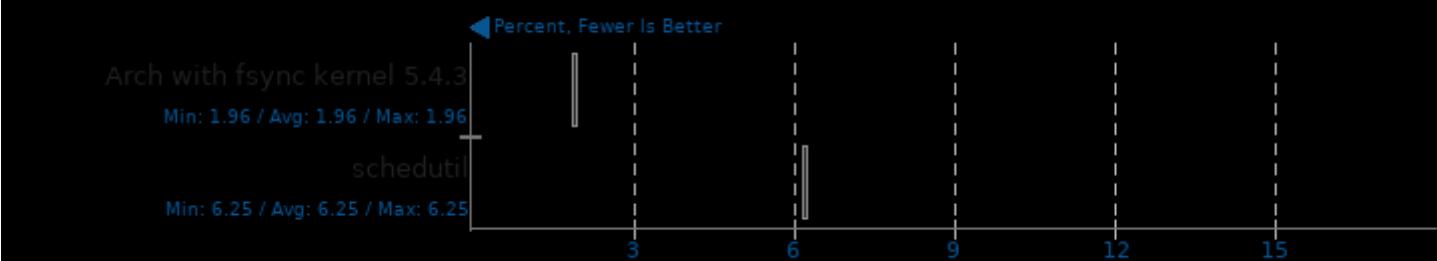
Smallpt 1.0

CPU Usage (CPU6) Monitor



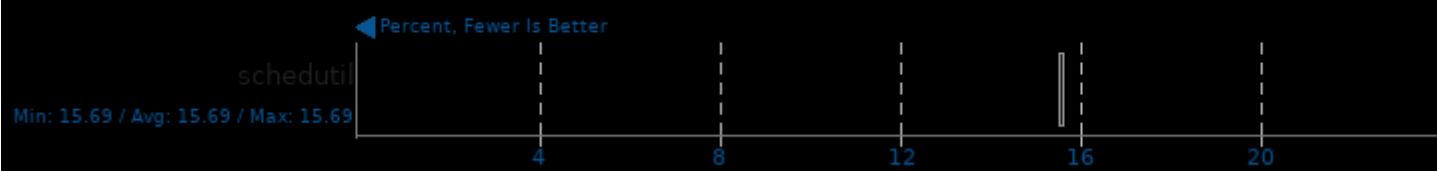
Smallpt 1.0

CPU Usage (CPU7) Monitor



Smallpt 1.0

CPU Usage (CPU8) Monitor



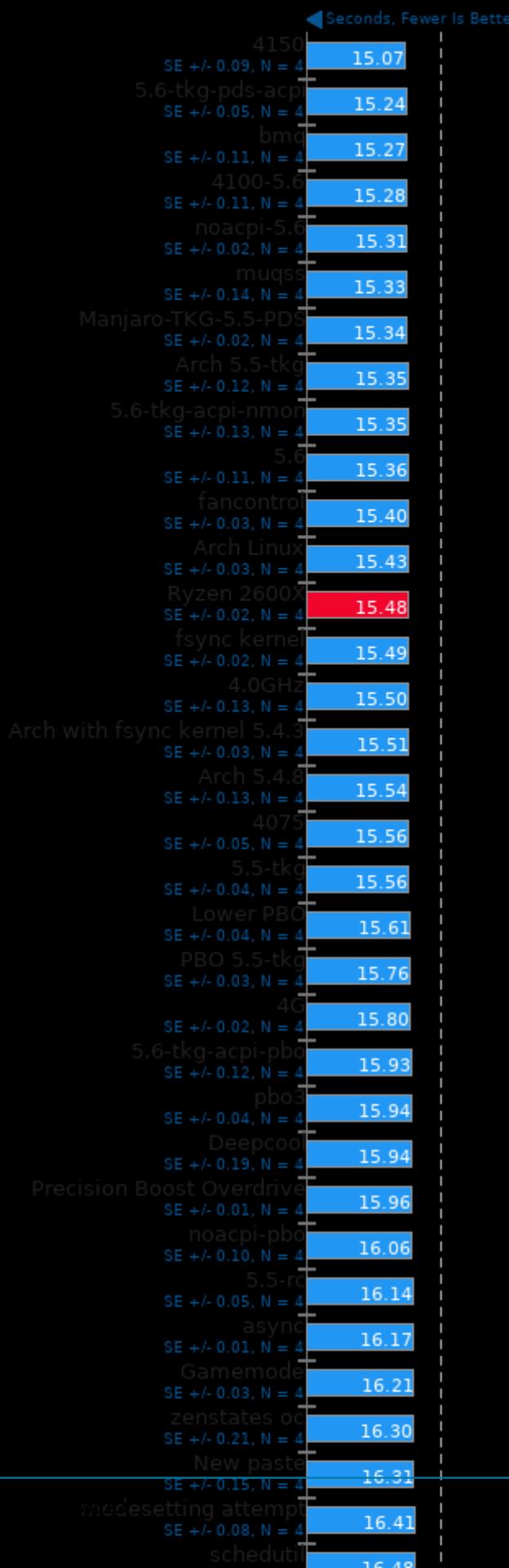
Smallpt 1.0

CPU Fan Speed Monitor



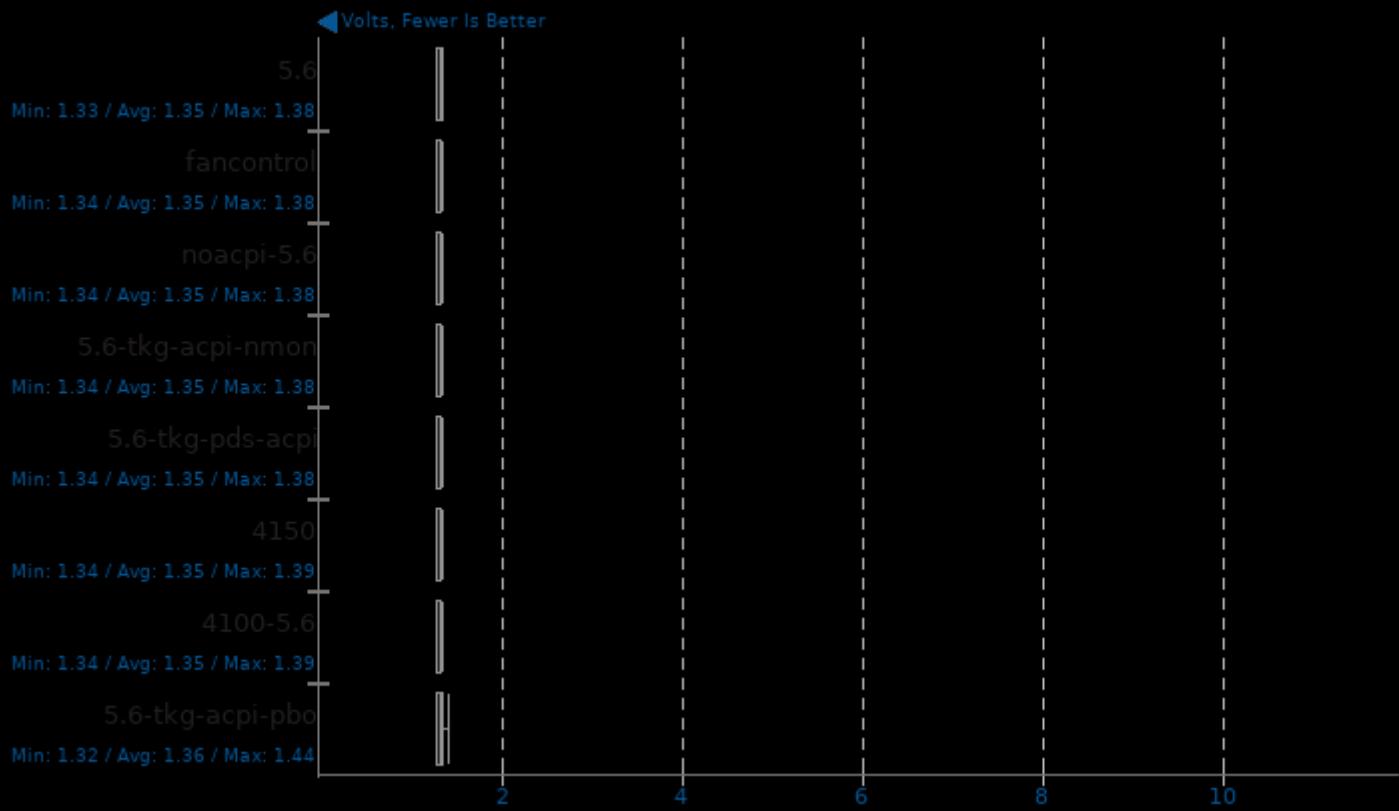
Smallpt 1.0

Global Illumination Renderer; 128 Samples



Smallpt 1.0

CPU Voltage Monitor



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:05.