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4690k-980ti-zenkernel-no-mitigations

trfc 280; trfc2 172; trfc4 118

Automated Executive Summary

5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry had the most wins, coming in first place for 33% of the tests.

Test Systems:

Realtek RTL8111 - Arch rolling - Intel Core i5-4690K

Processor: Intel Core i5-4690K @ 4.40GHz (4 Cores), Motherboard: MSI Z97S SLI Krait Edition (MS-7922) v2.0 (V10.7 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 16GB, Disk: 2 x 3001GB Western Digital WD30EFRX-68E + 500GB Samsung SSD 850 + 256GB INTEL SSDSC2KW25, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: Intel 9 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 5.9.1-zen2-1-zen (x86_64), Display Server: X Server 1.20.9, Display Driver: NVIDIA 455.28,

OpenGL: 4.6.0, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

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: intel_cpufreq schedutil - CPU Microcode: 0x28
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable SMT disabled + mds: Vulnerable; SMT disabled + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable + tsx_async_abort: Not affected

8350u-march-skylake-mitigations-on

8350u-march-skylake-mitigations-off

Processor: Intel Core i5-8350U @ 3.60GHz (4 Cores / 8 Threads), Motherboard: LENOVO 20L7S1KW00 (N22ET65W 1.42 BIOS), Chipset: Intel Xeon E3-1200 v6/7th, Memory: 8GB, Disk: Samsung SSD 970 EVO Plus 250GB, Graphics: Intel UHD 620 (1100MHz), Audio: Realtek ALC257, Network: Intel-AC 9260

OS: Arch Linux, Kernel: 5.9.0-next-20201023-1-next-skylake-git (x86_64), Desktop: Sway, Display Server: Wayland, Compiler: GCC 10.2.0, File-System: f2fs, Screen Resolution: 1920x1080

Kernel Notes: i915.enable_guc=0 i915.enable_gvt=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,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: intel_pstate powersave - CPU Microcode: 0xd6
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable + tsx_async_abort: Vulnerable

8350u-march-generic-mitigations-off

Processor: Intel Core i5-8350U @ 3.60GHz (4 Cores / 8 Threads), Motherboard: LENOVO 20L7S1KW00 (N22ET65W 1.42 BIOS), Chipset: Intel Xeon E3-1200 v6/7th, Memory: 8GB, Disk: Samsung SSD 970 EVO Plus 250GB, Graphics: Intel UHD 620 (1100MHz), Audio: Realtek ALC257, Network: Intel-AC 9260

OS: Arch Linux, Kernel: 5.9.0-next-20201023-1-next-generic-git (x86_64), Desktop: Sway, Display Server: Wayland, Compiler: GCC 10.2.0, File-System: f2fs, Screen Resolution: 1920x1080

Kernel Notes: i915.enable_guc=0 i915.enable_gvt=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,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: intel_pstate powersave - CPU Microcode: 0xd6
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable + tsx_async_abort: Vulnerable

3100-4.3ghz-fclk1866-mem3733-timings-1

3100-4.3ghz-fclk1866-mem3733-timings-2-fixed

3100-4.3ghz-fclk1866-mem3733-timings-3

3100-4.3ghz-fclk1866-mem3733-timings-4

3100-4.3ghz-fclk1866-mem3733-timings-5

3100-4.3ghz-fclk1866-mem3733-timings-6

3100-4.3ghz-fclk1866-mem3733-timings-7

3100-4.3ghz-fclk1866-mem3733-timings-8

3100-4.3ghz-fclk1866-mem3733-timings-9

3100-4.3ghz-fclk1866-mem3733-timings-10

Processor: AMD Ryzen 3 3100 4-Core @ 4.30GHz (4 Cores / 8 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (2802 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB + 500GB Samsung SSD 850 + 256GB INTEL SSDSC2KW25 + 62GB DataTraveler 3.0, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch Linux, Kernel: 5.9.8-arch1-1 (x86_64), Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1024x768

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: 0x8701021
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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

3100-4.3ghz-fclk1866-mem3733-timings-11

3100-4.3ghz-fclk1866-mem3733-timings-12

3100-4.3ghz-fclk1866-mem3733-timings-13

3100-4.3ghz-fclk1866-mem3733-timings-14

3100-4.3ghz-fclk1866-mem3733-timings-15

3100-4.3ghz-fclk1866-mem3733-timings-16

3100-4.3ghz-fclk1866-mem3733-timings-17

3100-4.3ghz-fclk1866-mem3733-timings-18

3100-4.3ghz-fclk1866-mem3733-timings-19

3100-4.3ghz-fclk1866-mem3733-timings-20

3100-4.3ghz-fclk1866-mem3733-timings-21

3100-4.3ghz-fclk1866-mem3733-timings-22

3100-4.3ghz-fclk1866-mem3733-timings-14-retest

Processor: AMD Ryzen 3 3100 4-Core @ 4.30GHz (4 Cores / 8 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (2802 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB + 500GB Samsung SSD 850 + 256GB INTEL SSDSC2KW25, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch Linux, Kernel: 5.9.8-arch1-1 (x86_64), Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1024x768

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: 0x8701021
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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest

Processor: AMD Ryzen 3 3100 4-Core @ 4.20GHz (4 Cores / 8 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (2802 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB + 500GB Samsung SSD 850 + 256GB INTEL SSDSC2KW25, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch Linux, Kernel: 5.9.8-arch1-1 (x86_64), Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1024x768

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: 0x8701021
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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2

Processor: AMD Ryzen 3 3100 4-Core @ 4.30GHz (4 Cores / 8 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (2802 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB + 500GB Samsung SSD 850 + 256GB INTEL SSDSC2KW25, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch Linux, Kernel: 5.9.8-arch1-1 (x86_64), Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1024x768

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: 0x8701021
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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5600-4.6ghz-fclk2000-mem4000-baseline

5600-4.6ghz-fclk2000-mem4000-baseline-retry

5600-4.6ghz-fclk2000-mem4000-baseline-retry2

5600-4.6ghz-fclk2000-mem4000-baseline-retry3

Processor: AMD Ryzen 5 5600X 6-Core @ 4.60GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (3405 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 5.11.5-135-tkg-upds (x86_64), Display Server: X Server 1.20.10, Display Driver: NVIDIA 460.56, OpenGL: 4.6.0, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: __GL_SHADER_DISK_CACHE_SKIP_CLEANUP=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,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 (Boost: Enabled) - CPU Microcode: 0xa201009
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5600-4.6ghz-fclk2000-mem4000-baseline-retry4

5600-4.6ghz-fclk2000-mem4000-baseline-retry5

Processor: AMD Ryzen 5 5600X 6-Core @ 4.60GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (3405 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 5.11.6-137-tkg-upds (x86_64), Display Server: X Server 1.20.10, Display Driver: NVIDIA 460.56, OpenGL: 4.6.0, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: __GL_SHADER_DISK_CACHE_SKIP_CLEANUP=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,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 (Boost: Enabled) - CPU Microcode: 0xa201009
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5600-4.6ghz-fclk2000-mem4000-baseline-retry6

5600-4.5ghz-fclk2000-mem4000-baseline

5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen

Processor: AMD Ryzen 5 5600X 6-Core @ 4.50GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (3405 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 5.11.6-137-tkg-upds (x86_64), Display Server: X Server 1.20.10, Display Driver: NVIDIA

460.56, OpenGL: 4.6.0, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: __GL_SHADER_DISK_CACHE_SKIP_CLEANUP=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,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 (Boost: Enabled) - CPU Microcode: 0xa201009
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry

Processor: AMD Ryzen 5 5600X 6-Core @ 4.50GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (3405 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 5.11.6-zen1-1-zen (x86_64), Display Server: X Server 1.20.10, Display Driver: NVIDIA 460.56, OpenGL: 4.6.0, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: always
Environment Notes: __GL_SHADER_DISK_CACHE_SKIP_CLEANUP=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,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 (Boost: Enabled) - CPU Microcode: 0xa201009
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs

Processor: AMD Ryzen 5 5600X 6-Core @ 4.50GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (3405 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 5.11.6-137-tkg-cfs (x86_64), Display Server: X Server 1.20.10, Display Driver: NVIDIA 460.56, OpenGL: 4.6.0, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: __GL_SHADER_DISK_CACHE_SKIP_CLEANUP=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,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 (Boost: Enabled) - CPU Microcode: 0xa201009
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2-tightermem

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2-revertmem-retry

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2-revertmem-retry2

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2-revertmem-retry3

5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc

5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff

5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry

Processor: AMD Ryzen 5 5600X 6-Core @ 4.60GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (3405 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 5.11.6-137-tkg-cfs (x86_64), Display Server: X Server 1.20.10, Display Driver: NVIDIA 460.56, OpenGL: 4.6.0, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: __GL_SHADER_DISK_CACHE_SKIP_CLEANUP=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,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 (Boost: Enabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

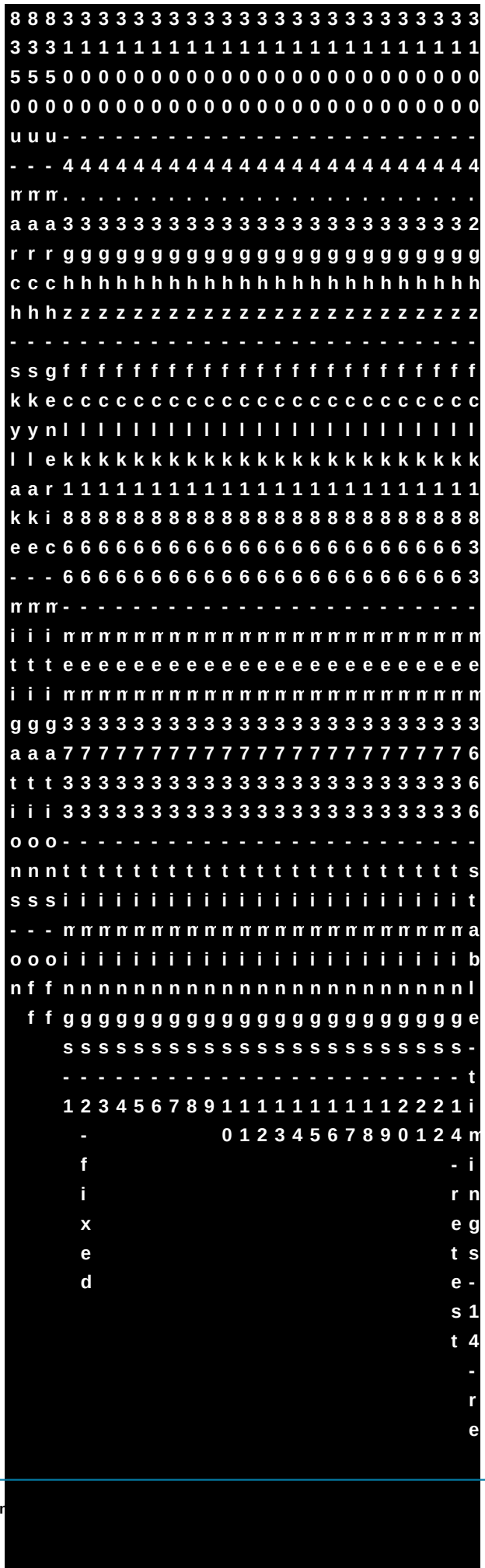
5600-5.11tkgcfs-45allcore-1.875vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary

Processor: AMD Ryzen 5 5600X 6-Core @ 4.50GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING X570-PLUS (3405 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: MSI NVIDIA GeForce GTX 980 Ti 6GB, Audio: NVIDIA GM200 HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

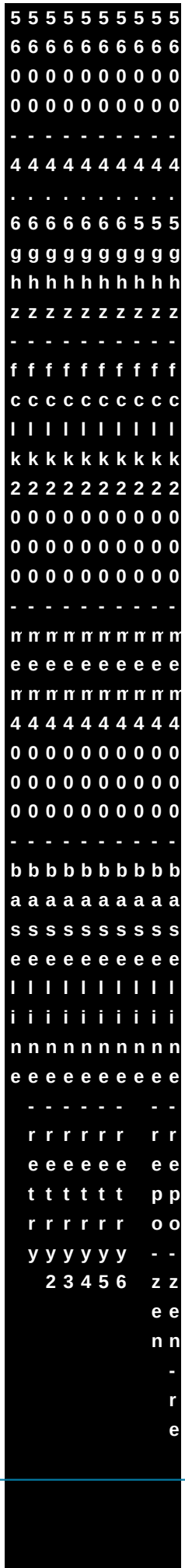
OS: Arch rolling, Kernel: 5.11.8-140-tkg-cfs (x86_64), Display Server: X Server 1.20.10, Display Driver: NVIDIA 460.67, OpenGL: 4.6.0, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

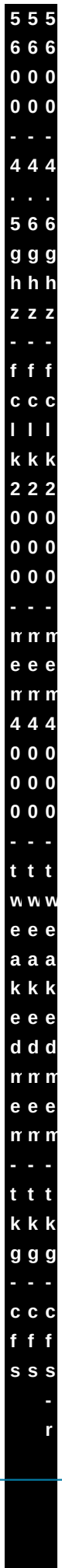
Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: __GL_SHADER_DISK_CACHE_SKIP_CLEANUP=1
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,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 (Boost: Disabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

Realtek RTL8111 - Archrolling - Intel Core i5-4690


Phoronix Test Suite
4690k-980ti-zenkernel-no-mitigations
fixed
-ingress-test-1
4-re

3100-4.3ghz-fclk1833-mem3666-stable-timings-14-re


5 5 5 5 5 5 5 5 5 5
6 6 6 6 6 6 6 6 6 6
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6 6 6 6 6 6 5 5 5
g g g g g g g g g g
h h h h h h h h h h
z z z z z z z z z z
- - - - - - - - - -
f f f f f f f f f f
c c c c c c c c c c
l l l l l l l l l l
k k k k k k k k k k
2 2 2 2 2 2 2 2 2 2
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0 0 0 0 0 0 0 0 0 0
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m m m m m m m m m m
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0 0 0 0 0 0 0 0 0 0
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b b b b b b b b b b
a a a a a a a a a a
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5 5 5
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5 6 6
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- - -
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0 0 0
- - -
t t t
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e e e
a a a
k k k
e e e
d d d
m m m
e e e
m m m
- - -
t t t
k k k
g g g
- - -
c c c
f f f
s s s
- -
r

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-r

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-r

4690k-980ti-zenkernel-no-mitigations

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-r

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-r

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-r

5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-r


5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trffc
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trffc-mitigat


5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigat

5600-5.11tkgcfs-45allcore-1.875vCPU-18000fclk-1.75

4690k-980ti-zenkernel-no-mitigations

4690k-980ti-zenkernel-no-mitigations

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4690k-980ti-zenkernel-no-mitigations

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4690k-980ti-zenkernel-no-mitigations

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4690k-980ti-zenkernel-no-mitigations

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4690k-980ti-zenkernel-no-mitigations

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4690k-980ti-zenkernel-no-mitigations

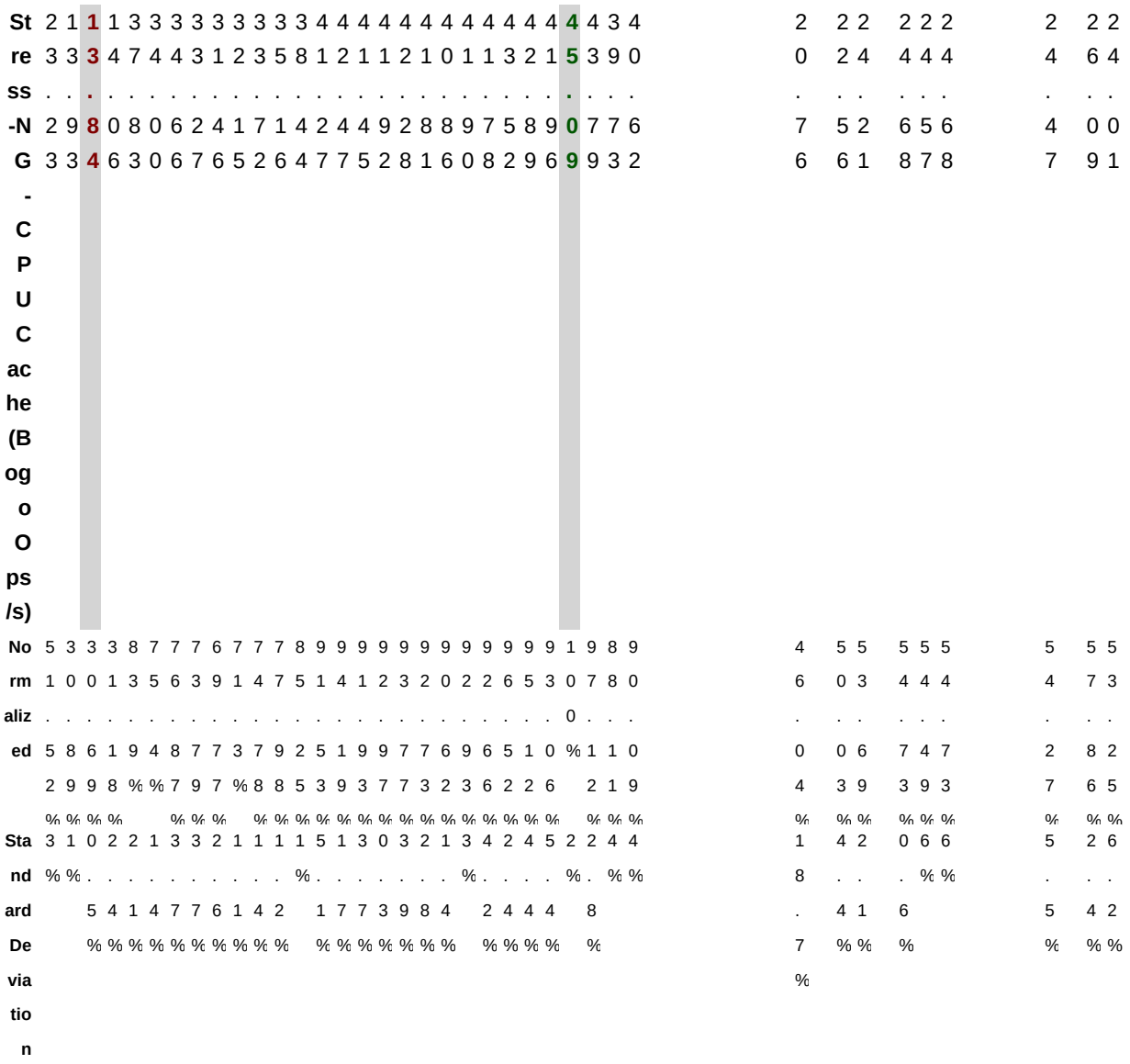
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4690k-980ti-zenkernel-no-mitigations

Phoronix Test Suite

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4690k-980ti-zenkernel-no-mitigations



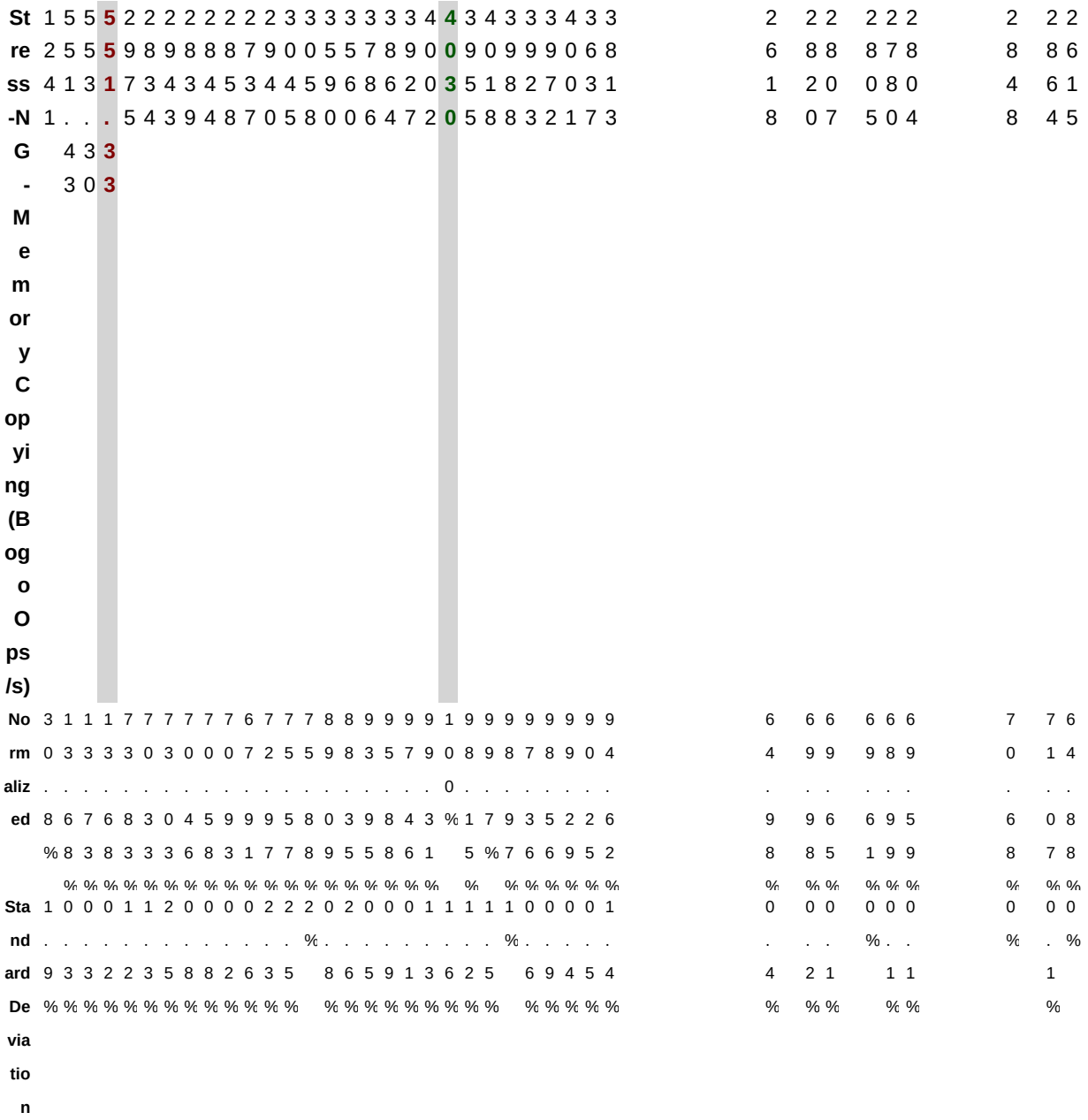
4690k-980ti-zenkernel-no-mitigations

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4690k-980ti-zenkernel-no-mitigations

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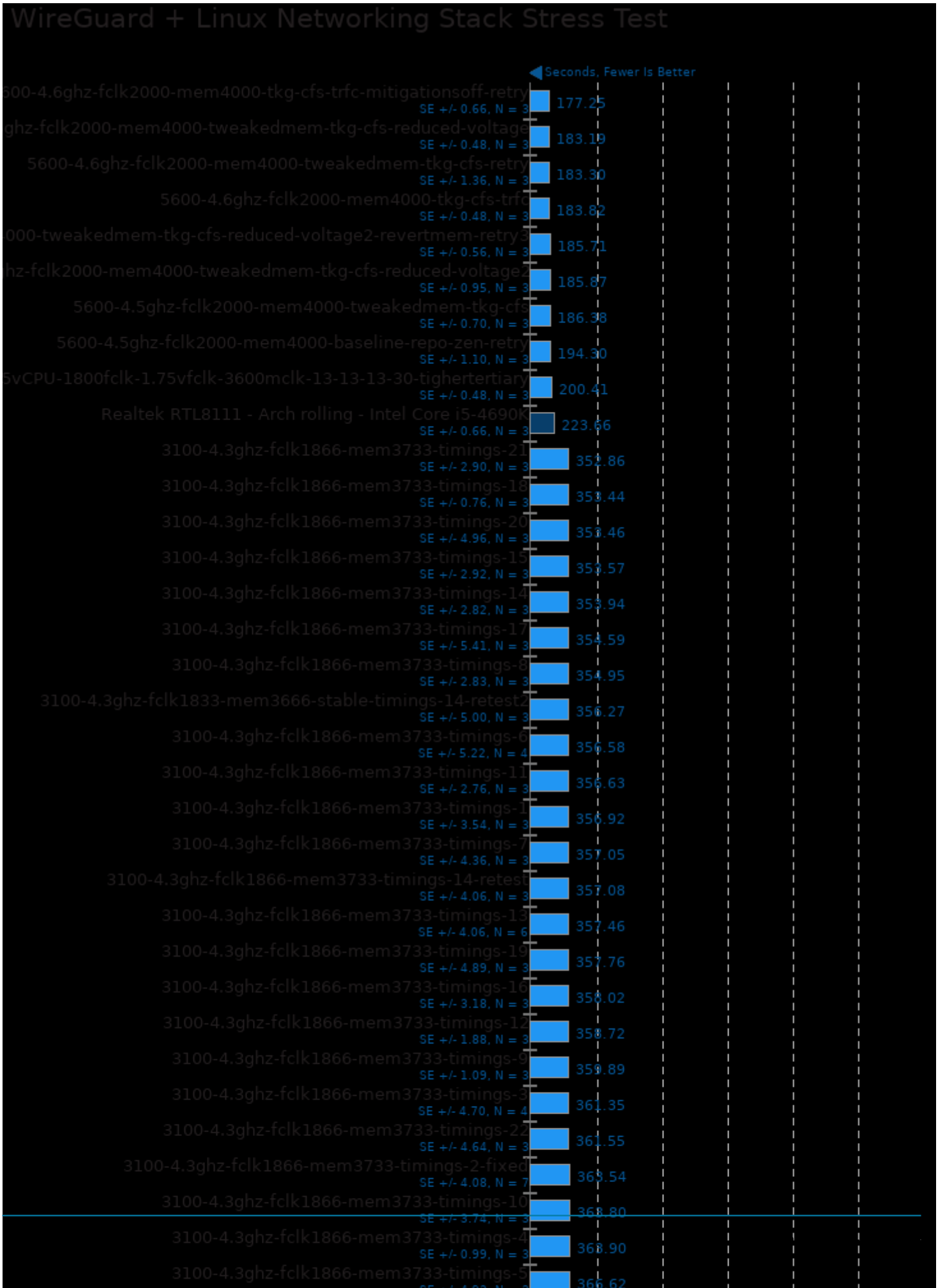
4690k-980ti-zenkernel-no-mitigations

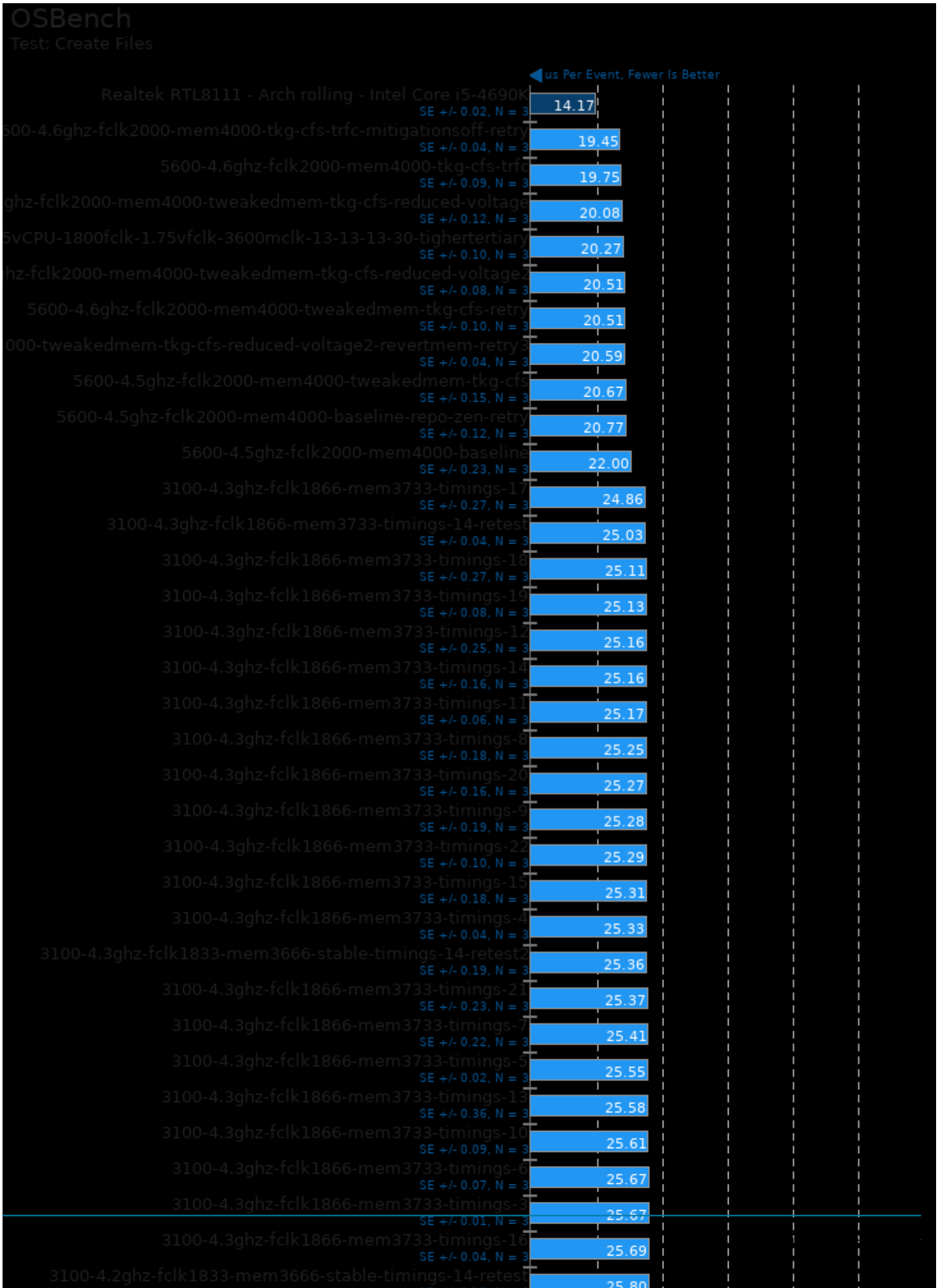


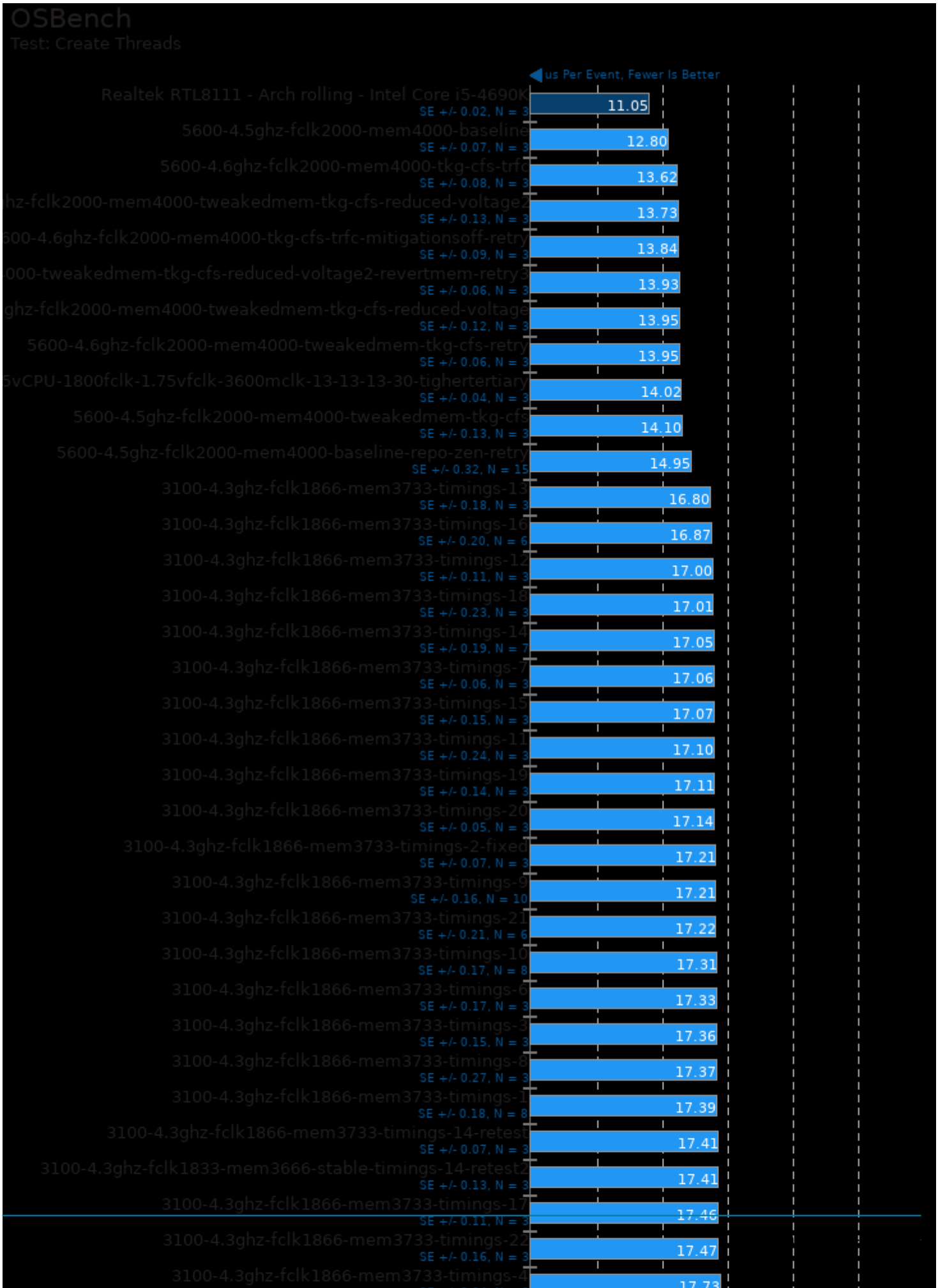
4690k-980ti-zenkernel-no-mitigations

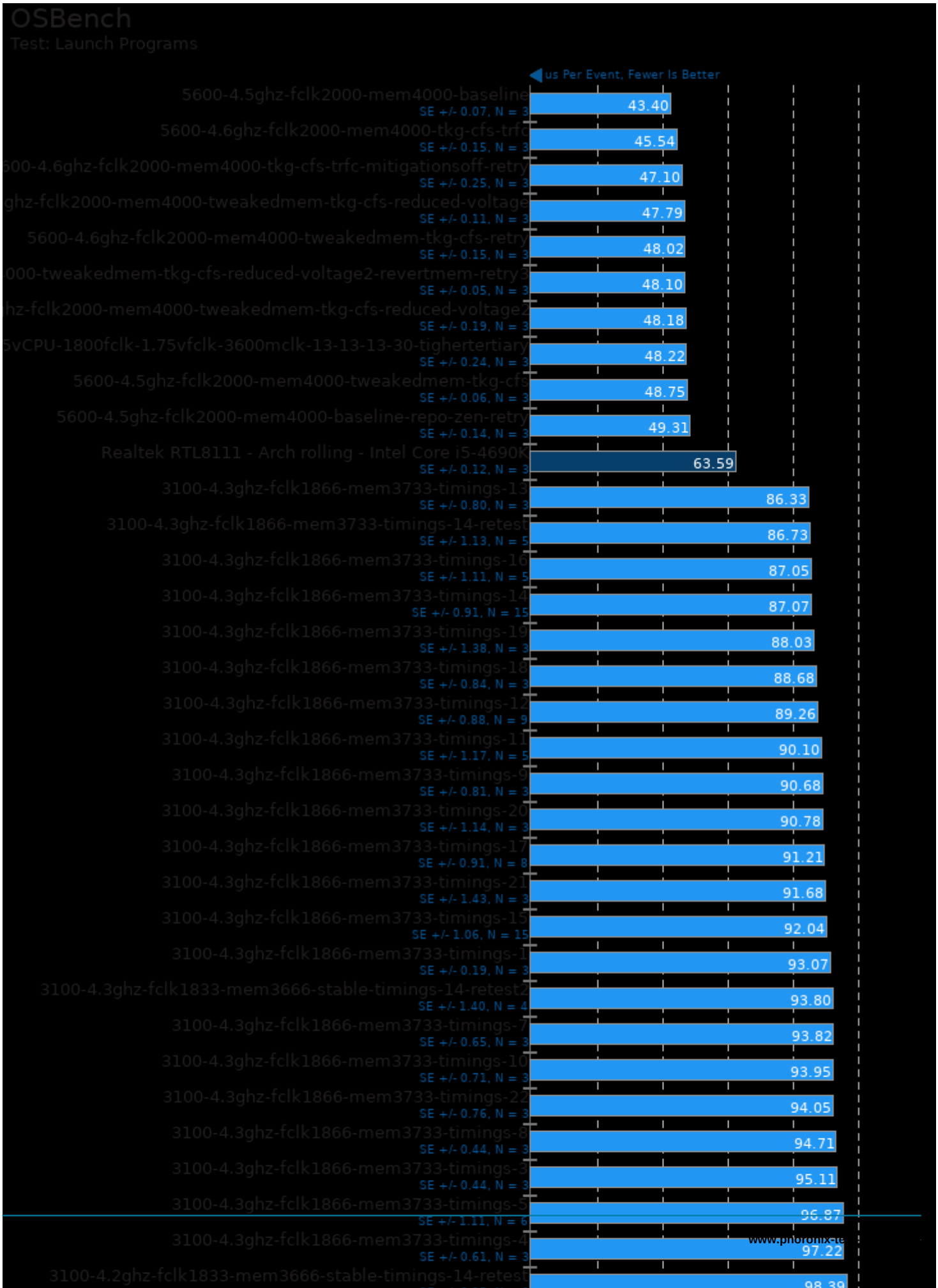
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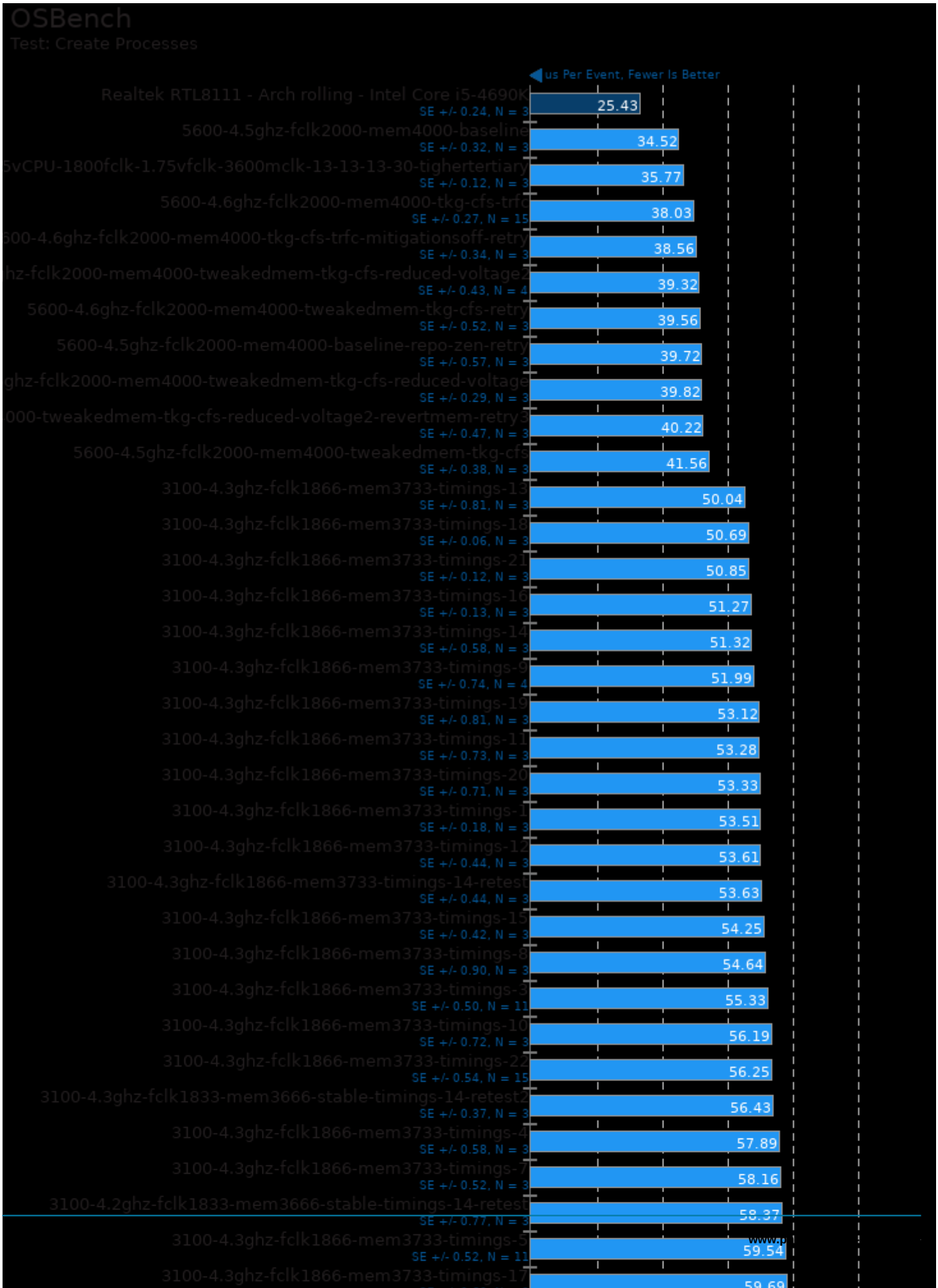
4690k-980ti-zenkernel-no-mitigations

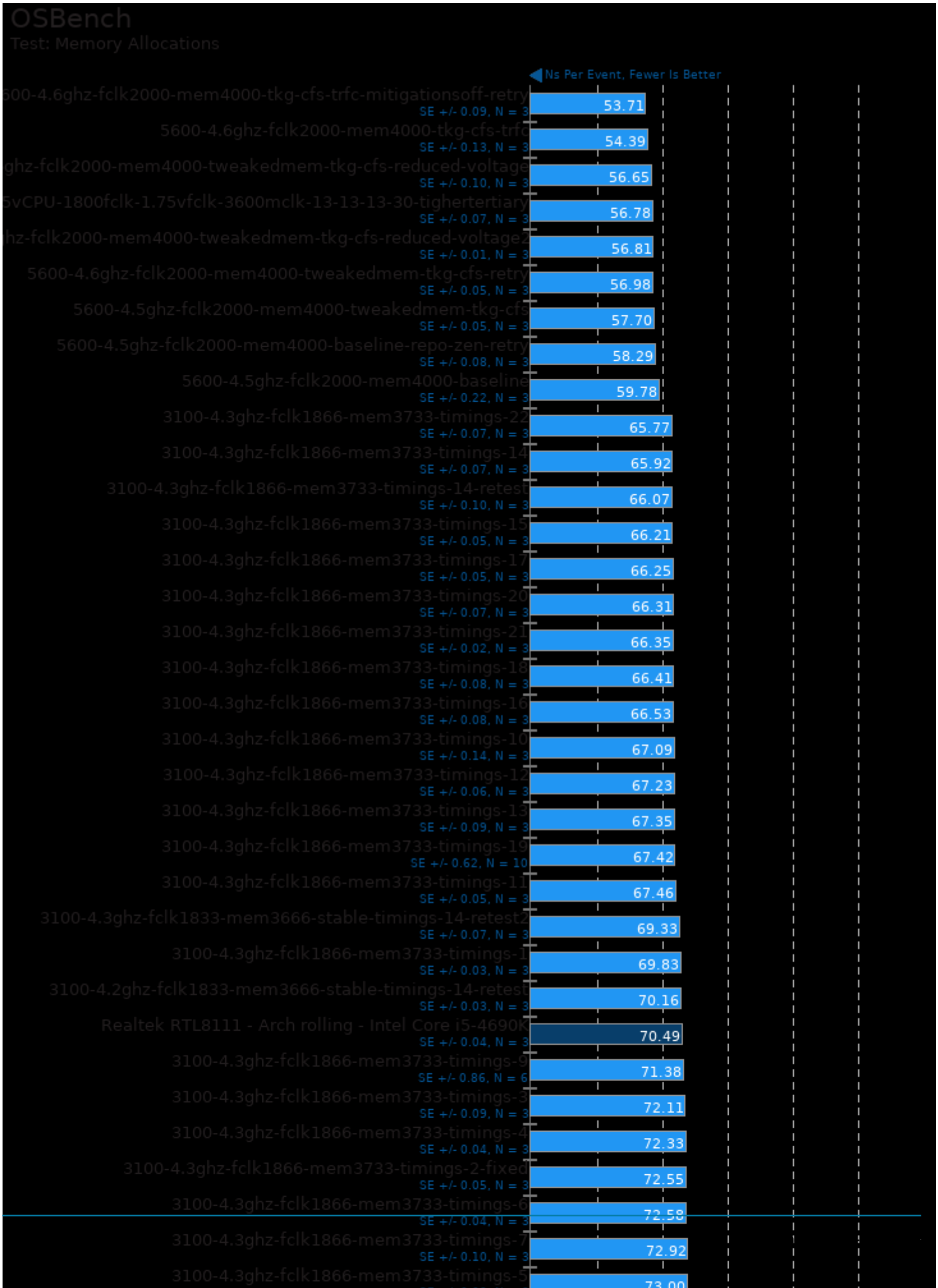

WireGuard + Linux Networking Stack Stress Test
Seconds, Fewer Is Better
600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 0.66, N = 3
177.25
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 0.48, N = 3
183.19
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 1.36, N = 3
183.30
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 0.48, N = 3
183.82
000-tweakedmem-tkg-cfs-reduced-voltage2-revertmem-retry3
SE +/- 0.56, N = 3
185.71
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 0.95, N = 3
185.87
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 0.70, N = 3
186.38
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 1.10, N = 3
194.30
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 0.48, N = 3
200.41
Realtek RTL8111 - Arch rolling - Intel Core i5-4690K
SE +/- 0.66, N = 3
223.66
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 2.90, N = 3
352.86
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 0.76, N = 3
353.44
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 4.96, N = 3
353.46
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 2.92, N = 3
353.57
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 2.82, N = 3
353.94
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 5.41, N = 3
354.59
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 2.83, N = 3
354.95
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 5.00, N = 3
356.27
3100-4.3ghz-fclk1866-mem3733-timings-6
SE +/- 5.22, N = 4
356.58
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 2.76, N = 3
356.63
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 3.54, N = 3
356.92
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 4.36, N = 3
357.05
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 4.06, N = 3
357.08
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 4.06, N = 6
357.46
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 4.89, N = 3
357.76
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 3.18, N = 3
358.02
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 1.88, N = 3
358.72
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 1.09, N = 3
359.89
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 4.70, N = 4
361.35
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 4.64, N = 3
361.55
3100-4.3ghz-fclk1866-mem3733-timings-2-fixed
SE +/- 4.08, N = 7
363.54
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 3.74, N = 3
368.80
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 0.99, N = 3
368.90
3100-4.3ghz-fclk1866-mem3733-timings-5
366.62

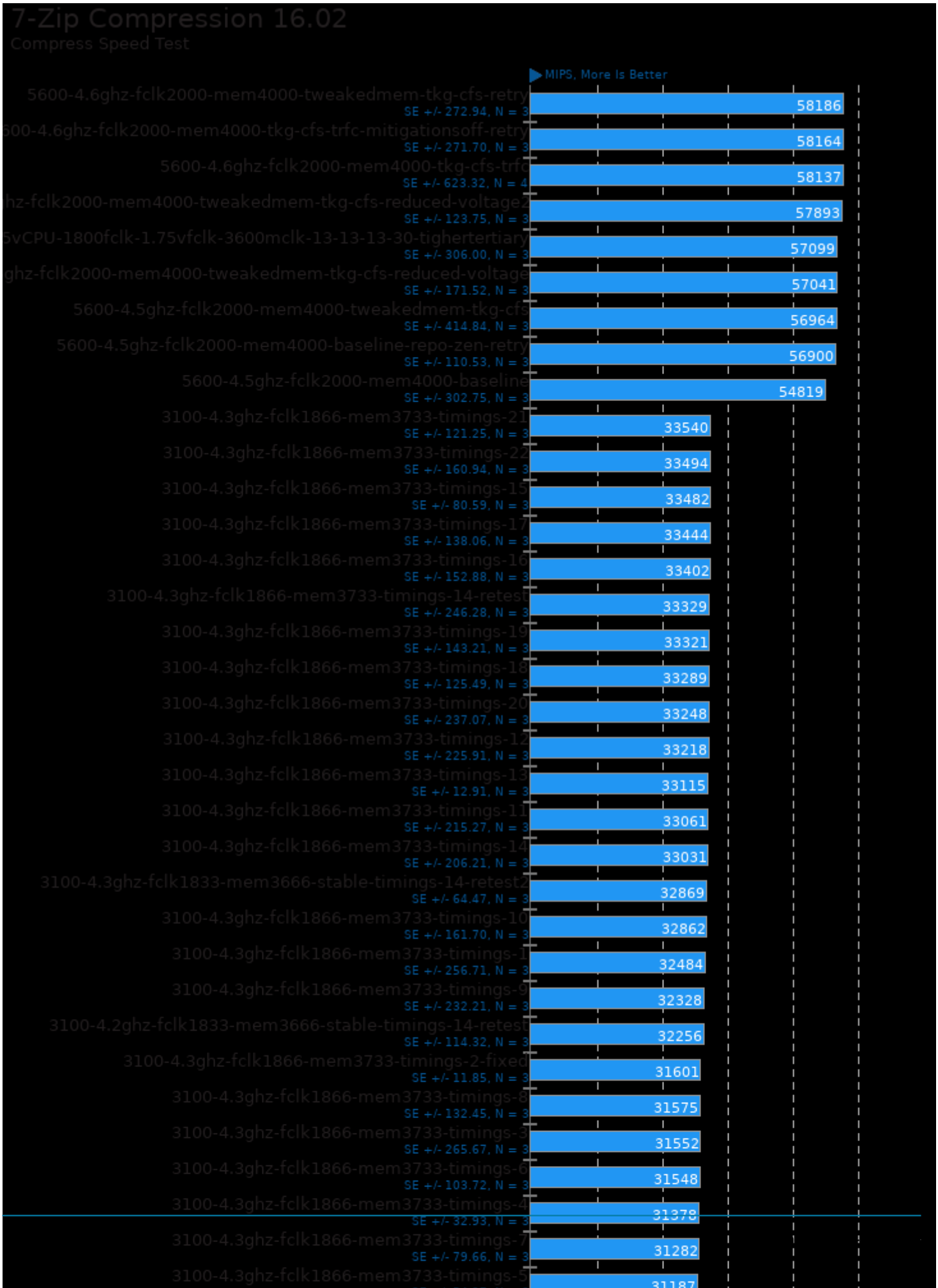

OSBench
Test: Create Files
us Per Event, Fewer Is Better
Realtek RTL8111 - Arch rolling - Intel Core i5-4690K
SE +/- 0.02, N = 3
14.17
SE +/- 0.04, N = 3
19.45
SE +/- 0.09, N = 3
19.75
SE +/- 0.12, N = 3
20.08
SE +/- 0.10, N = 3
20.27
SE +/- 0.08, N = 3
20.51
SE +/- 0.10, N = 3
20.51
SE +/- 0.04, N = 3
20.59
SE +/- 0.15, N = 3
20.67
SE +/- 0.12, N = 3
20.77
SE +/- 0.23, N = 3
22.00
SE +/- 0.27, N = 3
24.86
SE +/- 0.04, N = 3
25.03
SE +/- 0.27, N = 3
25.11
SE +/- 0.08, N = 3
25.13
SE +/- 0.25, N = 3
25.16
SE +/- 0.16, N = 3
25.16
SE +/- 0.06, N = 3
25.17
SE +/- 0.18, N = 3
25.25
SE +/- 0.16, N = 3
25.27
SE +/- 0.19, N = 3
25.28
SE +/- 0.10, N = 3
25.29
SE +/- 0.18, N = 3
25.31
SE +/- 0.04, N = 3
25.33
SE +/- 0.19, N = 3
25.36
SE +/- 0.23, N = 3
25.37
SE +/- 0.22, N = 3
25.41
SE +/- 0.02, N = 3
25.55
SE +/- 0.36, N = 3
25.58
SE +/- 0.09, N = 3
25.61
SE +/- 0.07, N = 3
25.67
SE +/- 0.01, N = 3
SE +/- 0.04, N = 3
25.69

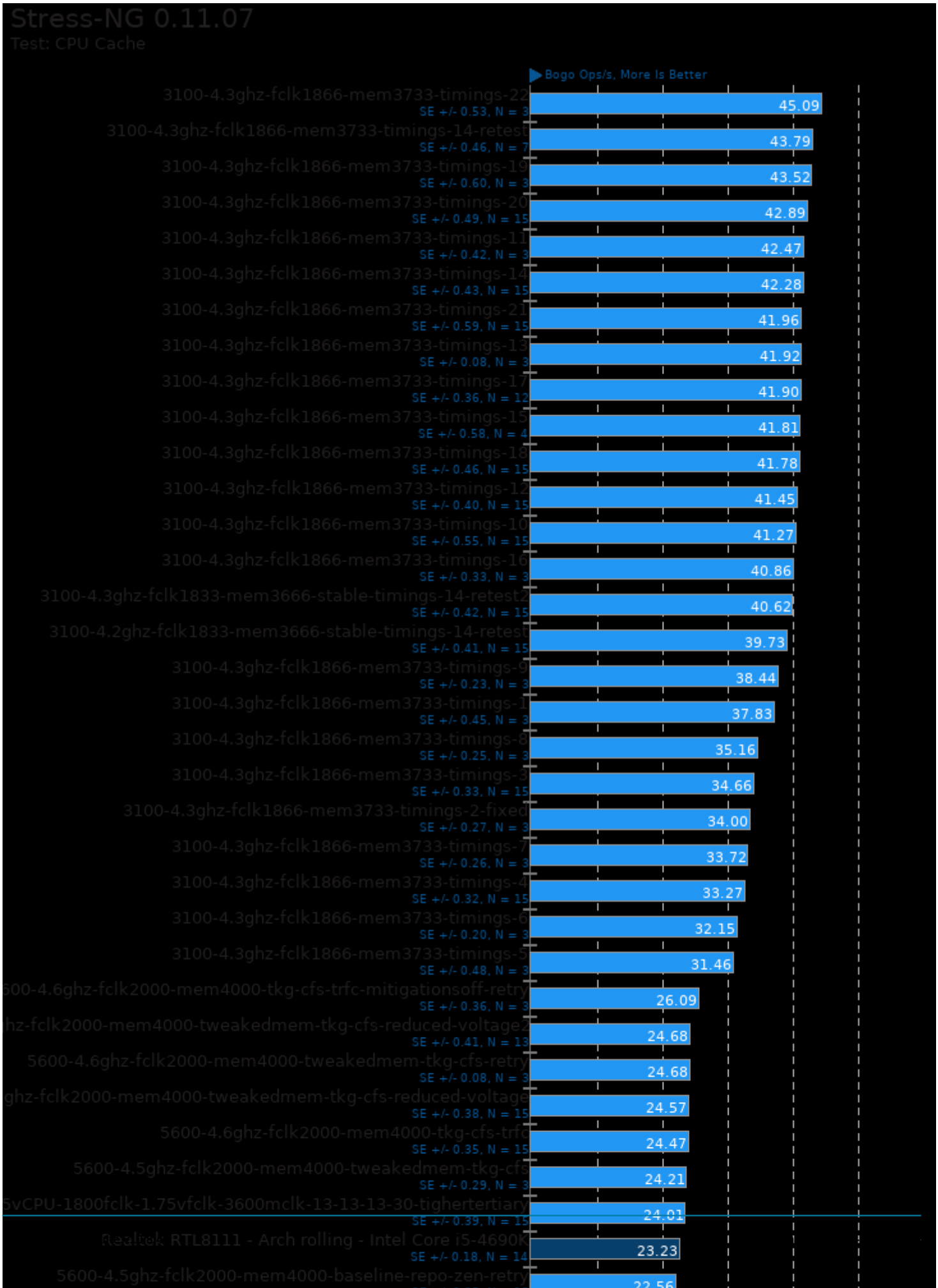

OSBench
Test: Create Threads
us Per Event, Fewer Is Better
Realtek RTL8111 - Arch rolling - Intel Core i5-4690K
SE +/- 0.02, N = 3
11.05
5600-4.5ghz-fclk2000-mem4000-baseline
SE +/- 0.07, N = 3
12.80
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 0.08, N = 3
13.62
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 0.13, N = 3
13.73
500-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 0.09, N = 3
13.84
000-tweakedmem-tkg-cfs-reduced-voltage2-revertmem-retry3
SE +/- 0.06, N = 3
13.93
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 0.12, N = 3
13.95
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 0.06, N = 3
13.95
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 0.04, N = 3
14.02
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 0.13, N = 3
14.10
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 0.32, N = 15
14.95
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 0.18, N = 3
16.80
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 0.20, N = 6
16.87
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 0.11, N = 3
17.00
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 0.23, N = 3
17.01
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 0.19, N = 7
17.05
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 0.06, N = 3
17.06
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 0.15, N = 3
17.07
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 0.24, N = 3
17.10
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 0.14, N = 3
17.11
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 0.05, N = 3
17.14
3100-4.3ghz-fclk1866-mem3733-timings-2-fixed
SE +/- 0.07, N = 3
17.21
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 0.16, N = 10
17.21
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 0.21, N = 6
17.22
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 0.17, N = 8
17.31
3100-4.3ghz-fclk1866-mem3733-timings-6
SE +/- 0.17, N = 3
17.33
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 0.15, N = 3
17.36
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 0.27, N = 3
17.37
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 0.18, N = 8
17.39
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 0.07, N = 3
17.41
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 0.13, N = 3
17.41
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 0.11, N = 3
17.46
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 0.16, N = 3
17.47
3100-4.3ghz-fclk1866-mem3733-timings-4

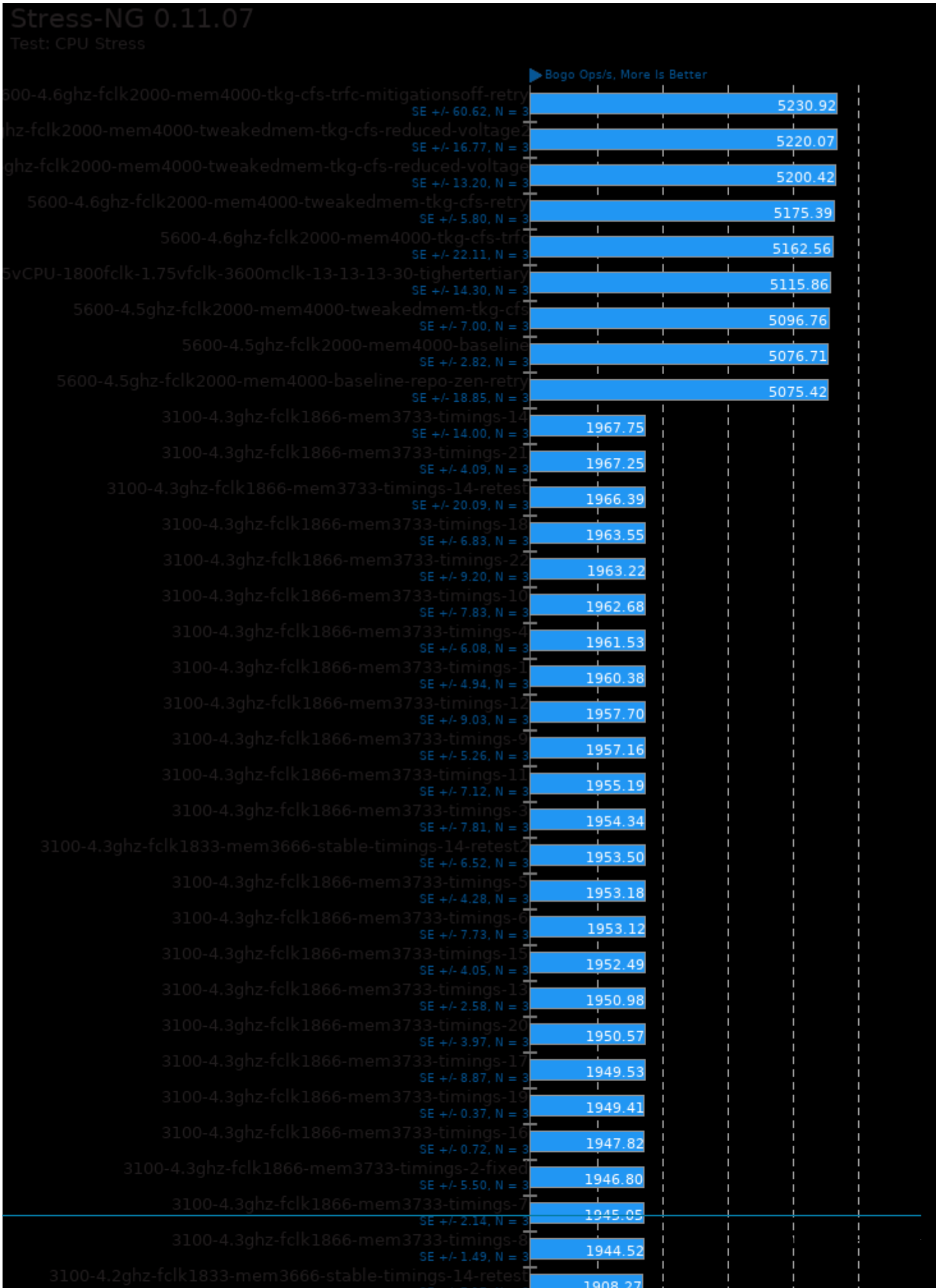

OSBench
Test: Launch Programs
us Per Event, Fewer Is Better
5600-4.5ghz-fclk2000-mem4000-baseline
SE +/- 0.07, N = 3
43.40
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 0.15, N = 3
45.54
500-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 0.25, N = 3
47.10
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 0.11, N = 3
47.79
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 0.15, N = 3
48.02
000-tweakedmem-tkg-cfs-reduced-voltage2-revertmem-retry3
SE +/- 0.05, N = 3
48.10
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 0.19, N = 3
48.18
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 0.24, N = 3
48.22
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 0.06, N = 3
48.75
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 0.14, N = 3
49.31
Realtek RTL8111 - Arch rolling - Intel Core i5-4690K
SE +/- 0.12, N = 3
63.59
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 0.80, N = 3
86.33
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 1.13, N = 5
86.73
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 1.11, N = 5
87.05
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 0.91, N = 15
87.07
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 1.38, N = 3
88.03
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 0.84, N = 3
88.68
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 0.88, N = 9
89.26
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 1.17, N = 5
90.10
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 0.81, N = 3
90.68
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 1.14, N = 3
90.78
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 0.91, N = 8
91.21
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 1.43, N = 3
91.68
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 1.06, N = 15
92.04
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 0.19, N = 3
93.07
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 1.40, N = 4
93.80
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 0.65, N = 3
93.82
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 0.71, N = 3
93.95
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 0.76, N = 3
94.05
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 0.44, N = 3
94.71
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 0.44, N = 3
95.11
3100-4.3ghz-fclk1866-mem3733-timings-5
SE +/- 1.11, N = 6
96.87
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 0.61, N = 3
97.22
3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest
98.39
www.phoronix-te

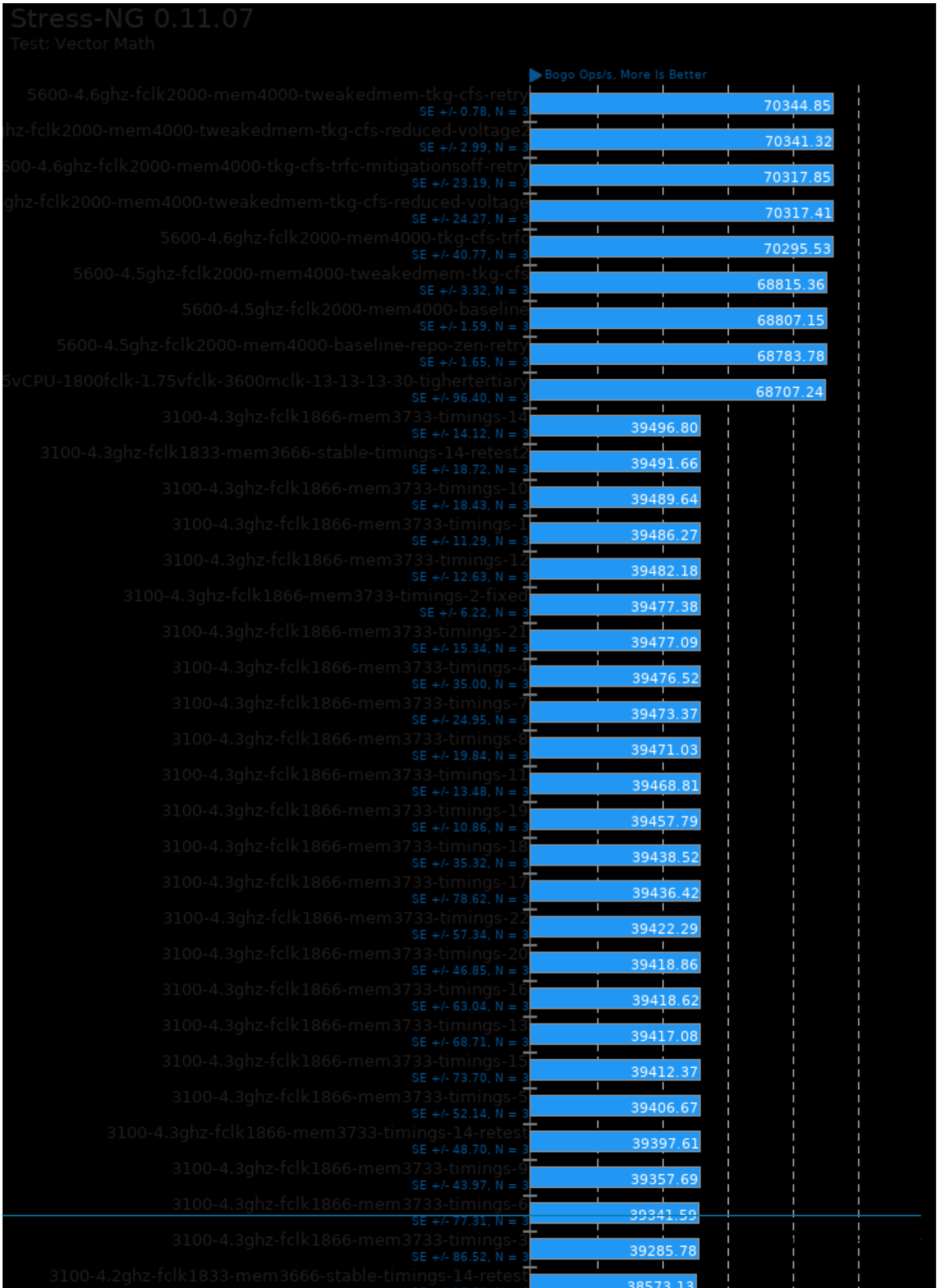

OSBench
Test: Create Processes
us Per Event, Fewer Is Better
Realtek RTL8111 - Arch rolling - Intel Core i5-4690K
SE +/- 0.24, N = 3
25.43
5600-4.5ghz-fclk2000-mem4000-baseline
SE +/- 0.32, N = 3
34.52
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 0.12, N = 3
35.77
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 0.27, N = 15
38.03
500-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 0.34, N = 3
38.56
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 0.43, N = 4
39.32
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 0.52, N = 3
39.56
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 0.57, N = 3
39.72
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 0.29, N = 3
39.82
000-tweakedmem-tkg-cfs-reduced-voltage2-revertmem-retry
SE +/- 0.47, N = 3
40.22
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 0.38, N = 3
41.56
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 0.81, N = 3
50.04
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 0.06, N = 3
50.69
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 0.12, N = 3
50.85
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 0.13, N = 3
51.27
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 0.58, N = 3
51.32
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 0.74, N = 4
51.99
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 0.81, N = 3
53.12
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 0.73, N = 3
53.28
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 0.71, N = 3
53.33
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 0.18, N = 3
53.51
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 0.44, N = 3
53.61
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 0.44, N = 3
53.63
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 0.42, N = 3
54.25
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 0.90, N = 3
54.64
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 0.50, N = 11
55.33
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 0.72, N = 3
56.19
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 0.54, N = 15
56.25
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 0.37, N = 3
56.43
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 0.58, N = 3
57.89
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 0.52, N = 3
58.16
3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest
SE +/- 0.77, N = 3
58.37
3100-4.3ghz-fclk1866-mem3733-timings-5
SE +/- 0.52, N = 11
59.54
3100-4.3ghz-fclk1866-mem3733-timings-17
59.69

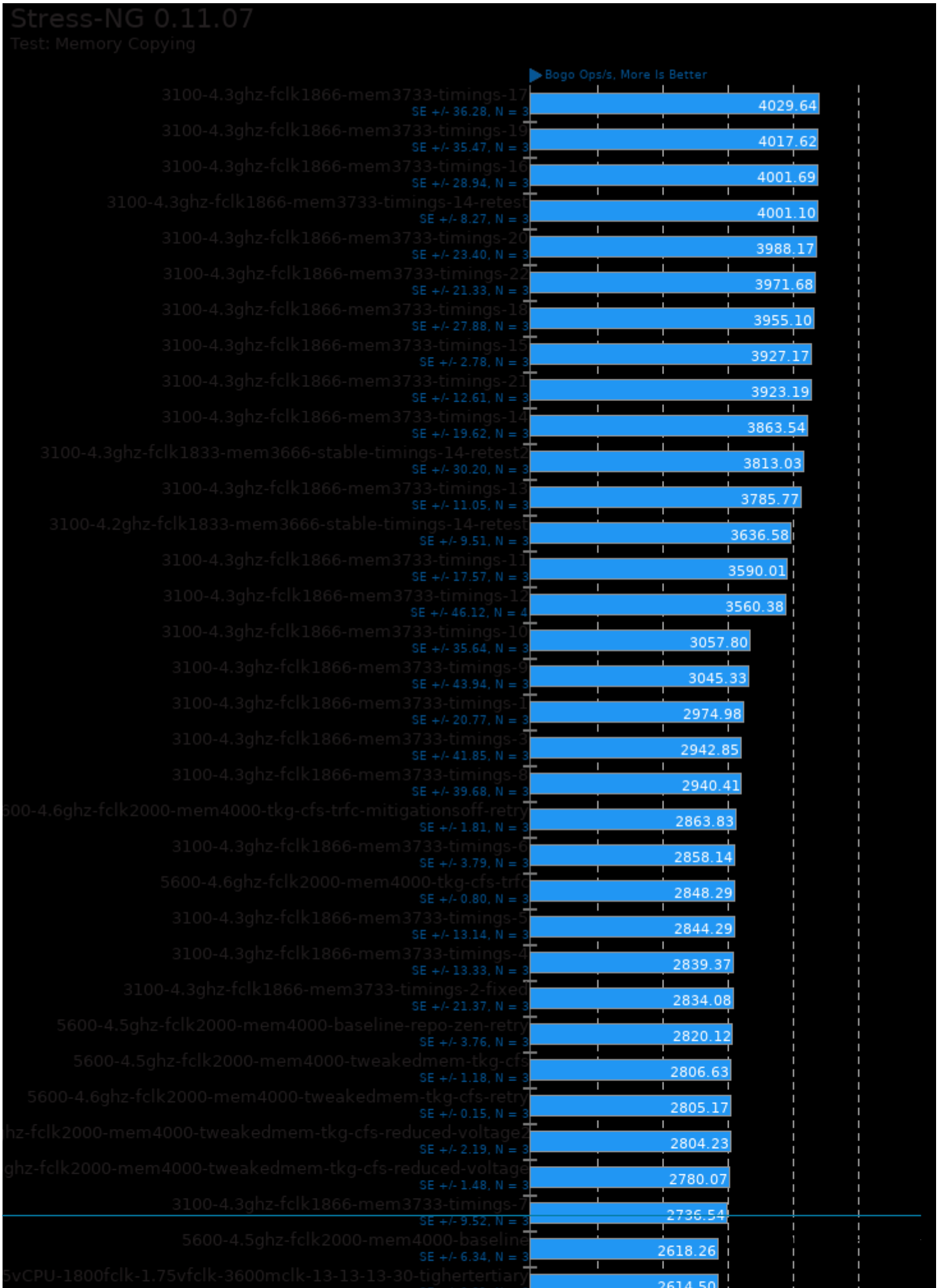

OSBench
Test: Memory Allocations
Ns Per Event, Fewer Is Better
500-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 0.09, N = 3
53.71
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 0.13, N = 3
54.39
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 0.10, N = 3
56.65
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 0.07, N = 3
56.78
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 0.01, N = 3
56.81
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 0.05, N = 3
56.98
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 0.05, N = 3
57.70
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 0.08, N = 3
58.29
5600-4.5ghz-fclk2000-mem4000-baseline
SE +/- 0.22, N = 3
59.78
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 0.07, N = 3
65.77
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 0.07, N = 3
65.92
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 0.10, N = 3
66.07
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 0.05, N = 3
66.21
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 0.05, N = 3
66.25
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 0.07, N = 3
66.31
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 0.02, N = 3
66.35
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 0.08, N = 3
66.41
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 0.08, N = 3
66.53
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 0.14, N = 3
67.09
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 0.06, N = 3
67.23
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 0.09, N = 3
67.35
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 0.62, N = 10
67.42
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 0.05, N = 3
67.46
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 0.07, N = 3
69.33
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 0.03, N = 3
69.83
3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest
SE +/- 0.03, N = 3
70.16
Realtek RTL8111 - Arch rolling - Intel Core i5-4690K
SE +/- 0.04, N = 3
70.49
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 0.86, N = 6
71.38
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 0.09, N = 3
72.11
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 0.04, N = 3
72.33
3100-4.3ghz-fclk1866-mem3733-timings-2-fixed
SE +/- 0.05, N = 3
72.55
3100-4.3ghz-fclk1866-mem3733-timings-6
SE +/- 0.04, N = 3
72.58
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 0.10, N = 3
72.92
3100-4.3ghz-fclk1866-mem3733-timings-5
73.00

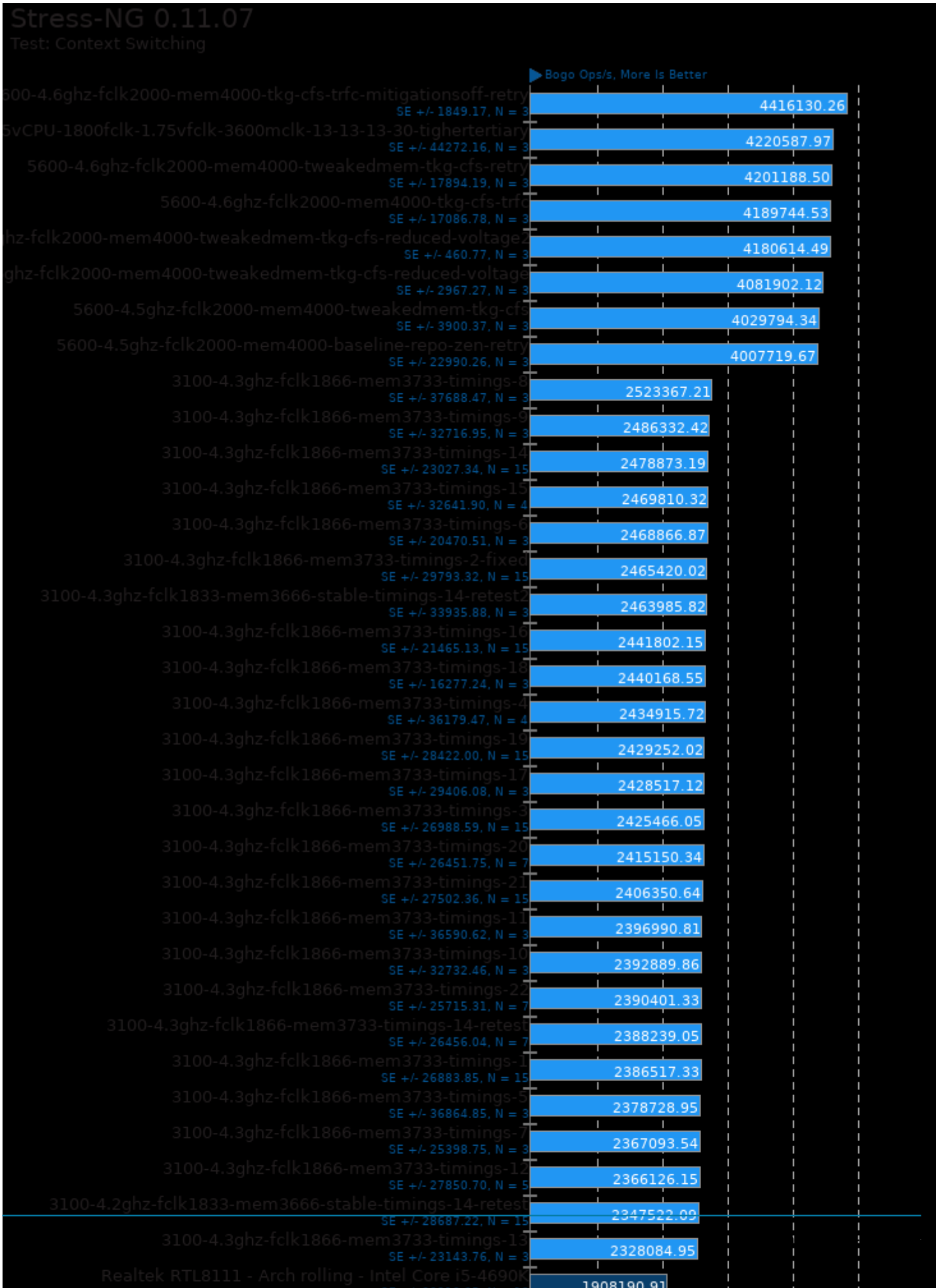

7-Zip Compression 16.02
Compress Speed Test
MIPS, More Is Better
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 272.94, N = 3
58186
SE +/- 271.70, N = 3
58164
SE +/- 623.32, N = 4
58137
SE +/- 123.75, N = 3
57893
SE +/- 306.00, N = 3
57099
SE +/- 171.52, N = 3
57041
SE +/- 414.84, N = 3
56964
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 110.53, N = 3
56900
SE +/- 302.75, N = 3
54819
SE +/- 121.25, N = 3
33540
SE +/- 160.94, N = 3
33494
SE +/- 80.59, N = 3
33482
SE +/- 138.06, N = 3
33444
SE +/- 152.88, N = 3
33402
SE +/- 246.28, N = 3
33329
SE +/- 143.21, N = 3
33321
SE +/- 125.49, N = 3
33289
SE +/- 237.07, N = 3
33248
SE +/- 225.91, N = 3
33218
SE +/- 12.91, N = 3
33115
SE +/- 215.27, N = 3
33061
SE +/- 206.21, N = 3
33031
SE +/- 64.47, N = 3
32869
SE +/- 161.70, N = 3
32862
SE +/- 256.71, N = 3
32484
SE +/- 232.21, N = 3
32328
SE +/- 114.32, N = 3
32256
SE +/- 11.85, N = 3
31601
SE +/- 132.45, N = 3
31575
SE +/- 265.67, N = 3
31552
SE +/- 103.72, N = 3
31548
SE +/- 32.93, N = 3
31378
SE +/- 79.66, N = 3
31282


Stress-NG 0.11.07
Test: CPU Cache
Bogo Ops/s, More Is Better
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 0.53, N = 3
45.09
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 0.46, N = 7
43.79
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 0.60, N = 3
43.52
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 0.49, N = 15
42.89
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 0.42, N = 3
42.47
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 0.43, N = 15
42.28
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 0.59, N = 15
41.96
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 0.08, N = 3
41.92
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 0.36, N = 12
41.90
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 0.58, N = 4
41.81
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 0.46, N = 15
41.78
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 0.40, N = 15
41.45
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 0.55, N = 15
41.27
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 0.33, N = 3
40.86
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 0.42, N = 15
40.62
3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest
SE +/- 0.41, N = 15
39.73
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 0.23, N = 3
38.44
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 0.45, N = 3
37.83
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 0.25, N = 3
35.16
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 0.33, N = 15
34.66
3100-4.3ghz-fclk1866-mem3733-timings-2-fixed
SE +/- 0.27, N = 3
34.00
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 0.26, N = 3
33.72
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 0.32, N = 15
33.27
3100-4.3ghz-fclk1866-mem3733-timings-6
SE +/- 0.20, N = 3
32.15
3100-4.3ghz-fclk1866-mem3733-timings-5
SE +/- 0.48, N = 3
31.46
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 0.36, N = 3
26.09
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 0.41, N = 13
24.68
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 0.08, N = 3
24.68
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 0.38, N = 15
24.57
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 0.35, N = 15
24.47
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 0.29, N = 3
24.21
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 0.39, N = 15
24.01
Realtek RTL8111 - Arch rolling - Intel Core i5-4690K
SE +/- 0.18, N = 14
23.23
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
22.56


Stress-NG 0.11.07
Test: CPU Stress
Bogo Ops/s, More Is Better
500-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 60.62, N = 3
5230.92
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 16.77, N = 3
5220.07
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 13.20, N = 3
5200.42
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 5.80, N = 3
5175.39
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 22.11, N = 3
5162.56
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 14.30, N = 3
5115.86
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 7.00, N = 3
5096.76
5600-4.5ghz-fclk2000-mem4000-baseline
SE +/- 2.82, N = 3
5076.71
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 18.85, N = 3
5075.42
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 14.00, N = 3
1967.75
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 4.09, N = 3
1967.25
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 20.09, N = 3
1966.39
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 6.83, N = 3
1963.55
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 9.20, N = 3
1963.22
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 7.83, N = 3
1962.68
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 6.08, N = 3
1961.53
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 4.94, N = 3
1960.38
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 9.03, N = 3
1957.70
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 5.26, N = 3
1957.16
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 7.12, N = 3
1955.19
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 7.81, N = 3
1954.34
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 6.52, N = 3
1953.50
3100-4.3ghz-fclk1866-mem3733-timings-5
SE +/- 4.28, N = 3
1953.18
3100-4.3ghz-fclk1866-mem3733-timings-6
SE +/- 7.73, N = 3
1953.12
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 4.05, N = 3
1952.49
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 2.58, N = 3
1950.98
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 3.97, N = 3
1950.57
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 8.87, N = 3
1949.53
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 0.37, N = 3
1949.41
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 0.72, N = 3
1947.82
3100-4.3ghz-fclk1866-mem3733-timings-2-fixed
SE +/- 5.50, N = 3
1946.80
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 2.14, N = 3
1945.05
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 1.49, N = 3
1944.52
3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest
1908.27


Stress-NG 0.11.07
Test: Vector Math
Bogo Ops/s, More Is Better
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 0.78, N = 3
70344.85
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 2.99, N = 3
70341.32
500-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 23.19, N = 3
70317.85
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 24.27, N = 3
70317.41
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 40.77, N = 3
70295.53
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 3.32, N = 3
68815.36
5600-4.5ghz-fclk2000-mem4000-baseline
SE +/- 1.59, N = 3
68807.15
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 1.65, N = 3
68783.78
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 96.40, N = 3
68707.24
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 14.12, N = 3
39496.80
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 18.72, N = 3
39491.66
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 18.43, N = 3
39489.64
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 11.29, N = 3
39486.27
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 12.63, N = 3
39482.18
3100-4.3ghz-fclk1866-mem3733-timings-2-fixed
SE +/- 6.22, N = 3
39477.38
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 15.34, N = 3
39477.09
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 35.00, N = 3
39476.52
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 24.95, N = 3
39473.37
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 19.84, N = 3
39471.03
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 13.48, N = 3
39468.81
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 10.86, N = 3
39457.79
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 35.32, N = 3
39438.52
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 78.62, N = 3
39436.42
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 57.34, N = 3
39422.29
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 46.85, N = 3
39418.86
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 63.04, N = 3
39418.62
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 68.71, N = 3
39417.08
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 73.70, N = 3
39412.37
3100-4.3ghz-fclk1866-mem3733-timings-5
SE +/- 52.14, N = 3
39406.67
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 48.70, N = 3
39397.61
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 43.97, N = 3
39357.69
3100-4.3ghz-fclk1866-mem3733-timings-6
SE +/- 77.31, N = 3
39341.59
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 86.52, N = 3
39285.78
3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest
38573.13


Stress-NG 0.11.07
Test: Memory Copying
Bogo Ops/s, More Is Better
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 36.28, N = 3
4029.64
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 35.47, N = 3
4017.62
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 28.94, N = 3
4001.69
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 8.27, N = 3
4001.10
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 23.40, N = 3
3988.17
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 21.33, N = 3
3971.68
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 27.88, N = 3
3955.10
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 2.78, N = 3
3927.17
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 12.61, N = 3
3923.19
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 19.62, N = 3
3863.54
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 30.20, N = 3
3813.03
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 11.05, N = 3
3785.77
3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest
SE +/- 9.51, N = 3
3636.58
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 17.57, N = 3
3590.01
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 46.12, N = 4
3560.38
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 35.64, N = 3
3057.80
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 43.94, N = 3
3045.33
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 20.77, N = 3
2974.98
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 41.85, N = 3
2942.85
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 39.68, N = 3
2940.41
500-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 1.81, N = 3
2863.83
3100-4.3ghz-fclk1866-mem3733-timings-6
SE +/- 3.79, N = 3
2858.14
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 0.80, N = 3
2848.29
3100-4.3ghz-fclk1866-mem3733-timings-5
SE +/- 13.14, N = 3
2844.29
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 13.33, N = 3
2839.37
3100-4.3ghz-fclk1866-mem3733-timings-2-fixed
SE +/- 21.37, N = 3
2834.08
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 3.76, N = 3
2820.12
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 1.18, N = 3
2806.63
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 0.15, N = 3
2805.17
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 2.19, N = 3
2804.23
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 1.48, N = 3
2780.07
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 9.52, N = 3
2736.54
5600-4.5ghz-fclk2000-mem4000-baseline
SE +/- 6.34, N = 3
2618.26
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
2614.50


Stress-NG 0.11.07
Test: Context Switching
Bogo Ops/s, More Is Better
500-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc-mitigationsoff-retry
SE +/- 1849.17, N = 3
4416130.26
5vCPU-1800fclk-1.75vfclk-3600mclk-13-13-13-30-tighertertiary
SE +/- 44272.16, N = 3
4220587.97
5600-4.6ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-retry
SE +/- 17894.19, N = 3
4201188.50
5600-4.6ghz-fclk2000-mem4000-tkg-cfs-trfc
SE +/- 17086.78, N = 3
4189744.53
hz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage2
SE +/- 460.77, N = 3
4180614.49
ghz-fclk2000-mem4000-tweakedmem-tkg-cfs-reduced-voltage
SE +/- 2967.27, N = 3
4081902.12
5600-4.5ghz-fclk2000-mem4000-tweakedmem-tkg-cfs
SE +/- 3900.37, N = 3
4029794.34
5600-4.5ghz-fclk2000-mem4000-baseline-repo-zen-retry
SE +/- 22990.26, N = 3
4007719.67
3100-4.3ghz-fclk1866-mem3733-timings-8
SE +/- 37688.47, N = 3
2523367.21
3100-4.3ghz-fclk1866-mem3733-timings-9
SE +/- 32716.95, N = 3
2486332.42
3100-4.3ghz-fclk1866-mem3733-timings-14
SE +/- 23027.34, N = 15
2478873.19
3100-4.3ghz-fclk1866-mem3733-timings-15
SE +/- 32641.90, N = 4
2469810.32
3100-4.3ghz-fclk1866-mem3733-timings-6
SE +/- 20470.51, N = 3
2468866.87
3100-4.3ghz-fclk1866-mem3733-timings-2-fixed
SE +/- 29793.32, N = 15
2465420.02
3100-4.3ghz-fclk1833-mem3666-stable-timings-14-retest2
SE +/- 33935.88, N = 3
2463985.82
3100-4.3ghz-fclk1866-mem3733-timings-16
SE +/- 21465.13, N = 15
2441802.15
3100-4.3ghz-fclk1866-mem3733-timings-18
SE +/- 16277.24, N = 3
2440168.55
3100-4.3ghz-fclk1866-mem3733-timings-4
SE +/- 36179.47, N = 4
2434915.72
3100-4.3ghz-fclk1866-mem3733-timings-19
SE +/- 28422.00, N = 15
2429252.02
3100-4.3ghz-fclk1866-mem3733-timings-17
SE +/- 29406.08, N = 3
2428517.12
3100-4.3ghz-fclk1866-mem3733-timings-3
SE +/- 26988.59, N = 15
2425466.05
3100-4.3ghz-fclk1866-mem3733-timings-20
SE +/- 26451.75, N = 7
2415150.34
3100-4.3ghz-fclk1866-mem3733-timings-21
SE +/- 27502.36, N = 15
2406350.64
3100-4.3ghz-fclk1866-mem3733-timings-11
SE +/- 36590.62, N = 3
2396990.81
3100-4.3ghz-fclk1866-mem3733-timings-10
SE +/- 32732.46, N = 3
2392889.86
3100-4.3ghz-fclk1866-mem3733-timings-22
SE +/- 25715.31, N = 7
2390401.33
3100-4.3ghz-fclk1866-mem3733-timings-14-retest
SE +/- 26456.04, N = 7
2388239.05
3100-4.3ghz-fclk1866-mem3733-timings-1
SE +/- 26883.85, N = 15
2386517.33
3100-4.3ghz-fclk1866-mem3733-timings-5
SE +/- 36864.85, N = 3
2378728.95
3100-4.3ghz-fclk1866-mem3733-timings-7
SE +/- 25398.75, N = 3
2367093.54
3100-4.3ghz-fclk1866-mem3733-timings-12
SE +/- 27850.70, N = 5
2366126.15
3100-4.2ghz-fclk1833-mem3666-stable-timings-14-retest
SE +/- 28687.22, N = 15
2347522.09
3100-4.3ghz-fclk1866-mem3733-timings-13
SE +/- 23143.76, N = 3
2328084.95
Realtek RTL8111 - Arch rolling - Intel Core i5-4690K
1908190.91

4690k-980ti-zenkernel-no-mitigations

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