

www.phoronix-test-suite.com

Clear Linux - July 2018 Performance

Tests for a future article of Intel Clear Linux performance from 1 July to 31 July 2018.

Automated Executive Summary

Core i7 7700K: Start July had the most wins, coming in first place for 55% of the tests.

Based on the geometric mean of all complete results, the fastest (Core i7 7700K: Start July) was 2.018x the speed of the slowest (Xeon E5-2609 v4: End July).

The results with the greatest spread from best to worst included:

Systemd Total Boot Time (Test: Total) at 48.161x
Schbench (Message Threads: 4 - Workers Per Message Thread: 8) at 7.919x
Tensorflow (Build: Cifar10) at 5.357x
OpenSSL (RSA 4096-bit Performance) at 4.582x
OpenSSL (RSA 4096-bit Performance) at 4.496x
Hackbench (Count: 4 - Type: Process) at 4.21x
FFTE (Test: N=64, 1D Complex FFT Routine) at 4.141x
Hackbench (Count: 1 - Type: Thread) at 4.128x
CacheBench (Test: Read / Modify / Write) at 4.012x
OSBench (Test: Launch Programs) at 3.986x.

Test Systems:

Xeon E3-1245 v5: Start July

Processor: Intel Xeon E3-1245 v5 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0 (2.90 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 16384 MB DDR4-2133MT/s, Disk: 120GB Samsung SSD 850, Graphics: Intel HD P530 (1150MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Xeon Silver 4108: Start July

Processor: Intel Xeon Silver 4108 @ 3.00GHz (8 Cores / 16 Threads), Motherboard: TYAN S7100AG2NR (V3.02 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 6 x 4096 MB DDR4-2400MT/s Micron 9ASF51272PZ-2G6B1, Disk: 240GB Force MP500, Graphics: ASPEED ASPEED Family, Audio: Realtek ALC892, Network: Intel I350 Gigabit Connection

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4, Screen Resolution: 800x600

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline IBPB IBRS_FW Protection

Xeon E3-1260L v5: Start July

Processor: Intel Xeon E3-1260L v5 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: ASRock E3V5 WS (P7.10 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2133MT/s, Disk: 120GB INTEL SSDSC2BW12, Graphics: XFX NVIDIA GeForce GT 220 1024MB, Audio: Realtek ALC892, Network: Intel Connection

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Core i5 6500: Start July

Processor: Intel Core i5-6500 @ 3.60GHz (4 Cores), Motherboard: Gigabyte Z170M-D3H-CF (F3 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2400MT/s, Disk: 250GB Samsung SSD 850, Graphics: Intel HD 530 (1050MHz), Audio: Realtek ALC892, Network: Intel Connection

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Xeon E5-2609 v4: Start July

Processor: Intel Xeon E5-2609 v4 @ 1.70GHz (8 Cores), Motherboard: MSI X99A RAIDER (MS-7885) v5.0 (P.50 BIOS), Chipset: Intel Xeon E7 v4/Xeon, Memory: 4 x 4096 MB DDR4-2133MT/s, Disk: 256GB CORSAIR FORCE LX, Graphics: eVGA NVIDIA GeForce GTX 750 1024MB, Audio: Realtek ALC892, Network: Intel Connection

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Xeon E3-1235L v5: Start July

Processor: Intel Xeon E3-1235L v5 @ 3.00GHz (4 Cores), Motherboard: ASRockRack C236M WS (P2.60 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2133MT/s, Disk: 120GB OCZ TRION150, Graphics: Intel HD 530 (1000MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Pentium G4400: Start July

Processor: Intel Pentium G4400 @ 3.30GHz (2 Cores), Motherboard: MSI B150M MORTAR (MS-7972) v2.0 (C.40 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2133MT/s, Disk: 120GB Samsung SSD 850, Graphics: Intel HD 510 (1000MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Display Driver:

modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Core i7 7700K: Start July

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0 (1.20 BIOS), Chipset: Intel Intel Kaby Lake + Z270, Memory: 2 x 8192 MB DDR4-3200MT/s, Disk: 256GB Samsung SSD 850, Graphics: Intel HD 630 (1150MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Core i7 4770K: Start July

Processor: Intel Core i7-4770K @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Gigabyte Z97-HD3 (F10c BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 2 x 4096 MB DDR3-1600MT/s Kingston KHX1600C9D3, Disk: 120GB ADATA SU700, Graphics: Intel Gen7 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Network: Realtek RTL8111/8168/8411

OS: Clear Linux OS 23370, Kernel: 4.17.3-589.native (x86_64), Display Server: X Server rw, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.1.1 20180514 + Clang 6.0.0 + LLVM 6.0.0, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Xeon E3-1245 v5: End July

Processor: Intel Xeon E3-1245 v5 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0 (2.90 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 16384 MB DDR4-2133MT/s, Disk: 120GB Samsung SSD 850, Graphics: Intel HD P530 (1150MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.0, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere

--with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Xeon E3-1260L v5: End July

Processor: Intel Xeon E3-1260L v5 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: ASRock E3V5 WS (P7.10 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2133MT/s, Disk: 120GB INTEL SSDSC2BW12, Graphics: XFX NVIDIA GeForce GT 220 1024MB, Audio: Realtek ALC892, Network: Intel Connection

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.0, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Xeon Silver 4108: End July

Processor: Intel Xeon Silver 4108 @ 3.00GHz (8 Cores / 16 Threads), Motherboard: TYAN S7100AG2NR (V3.02 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 6 x 4096 MB DDR4-2400MT/s Micron 9ASF51272PZ-2G6B1, Disk: 240GB Force MP500, Graphics: ASPEED ASPEED Family, Audio: Realtek ALC892, Network: Intel I350 Gigabit Connection

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Display Server: X Server rw, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4, Screen Resolution: 800x600

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline IBPB IBRS_FW Protection

Core i5 6500: End July

Processor: Intel Core i5-6500 @ 3.60GHz (4 Cores), Motherboard: Gigabyte Z170M-D3H-CF (F3 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2400MT/s, Disk: 250GB Samsung SSD 850, Graphics: Intel HD 530 (1050MHz), Audio: Realtek ALC892, Network: Intel Connection

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.0, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0

Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Xeon E5-2609 v4: End July

Processor: Intel Xeon E5-2609 v4 @ 1.70GHz (8 Cores), Motherboard: MSI X99A RAIDER (MS-7885) v5.0 (P.50 BIOS), Chipset: Intel Xeon E7 v4/Xeon, Memory: 4 x 4096 MB DDR4-2133MT/s, Disk: 256GB CORSAIR FORCE LX, Graphics: eVGA NVIDIA GeForce GTX 750 1024MB, Audio: Realtek ALC892, Network: Intel Connection

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.0, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Xeon E3-1235L v5: End July

Processor: Intel Xeon E3-1235L v5 @ 3.00GHz (4 Cores), Motherboard: ASRockRack C236M WS (P2.60 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2133MT/s, Disk: 120GB OCZ TRION150, Graphics: Intel HD 530 (1000MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.0, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Pentium G4400: End July

Processor: Intel Pentium G4400 @ 3.30GHz (2 Cores), Motherboard: MSI B150M MORTAR (MS-7972) v2.0 (C.40 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2133MT/s, Disk: 120GB Samsung SSD 850, Graphics: Intel HD 510 (1000MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.0, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Core i7 7700K: End July

Clear Linux - July 2018 Performance

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0 (1.20 BIOS), Chipset: Intel Intel Kaby Lake + Z270, Memory: 2 x 8192 MB DDR4-3200MT/s, Disk: 256GB Samsung SSD 850, Graphics: Intel HD 630 (1150MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.0, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

Core i7 4770K: End July

Processor: Intel Core i7-4770K @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Gigabyte Z97-HD3 (F10c BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 2 x 4096 MB DDR3-1600MT/s Kingston KHX1600C9D3, Disk: 120GB ADATA SU700, Graphics: Intel Gen7 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Network: Realtek RTL8111/8168/8411

OS: Clear Linux OS 24090, Kernel: 4.17.11-599.native (x86_64) 20180729, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.0, Display Driver: modesetting 1.20.0, Vulkan: 1.0.39, Compiler: GCC 8.2.0 + Clang 6.0.1 + LLVM 6.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.0
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline Protection

	Xeon E3-1245 v5: Start July	Xeon Silver 4108: Start	Xeon E3-1260L v5: Start July	Core i5 6500: Start July	Xeon E5-2609 v4: Start July	Xeon E3-1235L v5: Start July	Pentium G4400: Start July	Core i7 7700K: Start July	Core i7 4770K: Start July	Xeon E3-1245 v5: End July	Xeon E3-1260L v5: End July	Xeon Silver 4108: End July	Core i5 6500: End July	Xeon E5-2609 v4: End July	Xeon E3-1235L v5: End July	Pentium G4400: End July	Core i7 7700K: End July	Core i7 4770K: End July
7-Zip Compression - C.S.T (MIPS)	24883	30331	23480	15456	16903	12702	8051	**30850**	22418	24032	24011	29750	15404	16864	12634	**8036**	30179	22505
Normalized	80.66%	98.32%	76.11%	50.1%	54.79%	41.17%	26.1%	100%	72.67%	77.9%	77.83%	96.43%	49.93%	54.66%	40.95%	26.05%	97.82%	72.95%
Standard Deviation	3.2%	0.5%	2.1%	0.1%	0.7%	0.2%	0.1%	0.6%	1.5%	2.3%	1.6%	3.1%	0.1%	0.1%	0.4%	0.4%	0.4%	2.1%

Clear Linux - July 2018 Performance

Apache Benchmark - S.W.P.S (Reqs/sec)	31795	20990	31837	37970	18998	31523	22222	**39824**	29634	30929	30806	20216	36911	**18914**	30951	21642	38878	28642
Normalized	79.84%	52.71%	79.94%	95.34%	47.7%	79.15%	55.8%	100%	74.41%	77.66%	77.35%	50.76%	92.68%	47.49%	77.72%	54.34%	97.62%	71.92%
Standard Deviation	0.3%	0.3%	0.3%	0.2%	0.6%	0.1%	0.1%	0.1%	0.5%	0.5%	0.6%	1.8%	0.8%	0.5%	0.2%	0.2%	0.3%	0.4%
Bullet Physics Engine - 3000 Fall (sec)	4.21	5.64	4.24	4.64	**9.25**	5.32	5.55	**3.61**	4.79	4.28	4.27	5.63	4.65	9.23		5.54	3.80	4.70
Normalized	85.75%	64.01%	85.14%	77.8%	39.03%	67.86%	65.05%	100%	75.37%	84.35%	84.54%	64.12%	77.63%	39.11%		65.16%	95%	76.81%
Standard Deviation	0.1%	0.2%	3%	0.1%	0.1%	0.2%	0.2%	0.5%	1.7%	3.2%	3.5%	0.5%	0.3%	0.1%		0.2%	0.1%	1.1%
C-Ray - Total Time (sec)	20.38	18.46	21.04	23.32	25.40	28.51	**46.73**	**16.26**	21.65	20.39	21.07	18.41	23.30	25.36	28.47	46.68	16.27	21.62
Normalized	79.78%	88.08%	77.28%	69.73%	64.02%	57.03%	34.8%	100%	75.1%	79.74%	77.17%	88.32%	69.79%	64.12%	57.11%	34.83%	99.94%	75.21%
Standard Deviation	0%	0.2%	0.1%	0.2%	0.2%	0.1%	0%	0%	0%	0.1%	0.1%	0.2%	0.1%	0.1%	0%	0.1%	0.1%	0%
CacheBench - R.M.W (MB/s)	44357	34490	44897	41451	18514	34540	37923	**51870**	42170	43693	44195	33884	40790	**12930**	33965	37324	51044	29241
Normalized	85.52%	66.49%	86.56%	79.91%	35.69%	66.59%	73.11%	100%	81.3%	84.24%	85.2%	65.33%	78.64%	24.93%	65.48%	71.96%	98.41%	56.37%
Standard Deviation	0.2%	0%	0%	0%	0%	0%	0%	0%	0.2%	0.2%	0%	0.1%	0%	6.3%	0.1%	0%	0%	1.9%
Caffe - CPU AlexNet (ms)				71717		86080	**179031**						**71679**		85358	177659		
Normalized				99.95%		83.27%	40.04%						100%		83.97%	40.35%		
Standard Deviation				0.5%		0.2%	0.1%						0.4%		0.2%	0%		
Caffe - CPU Googlenet (ms)				191865		241238	**401329**						**191699**		240402	401185		
Normalized				99.91%		79.46%	47.77%						100%		79.74%	47.78%		
Standard Deviation				0.2%		0.1%	0%						0.1%		0.1%	0%		
ebizzy (Records/s)	246477	214697	223882	195736	156148	170246	**83997**	304038	163833	245450	218154	220352	204769	154467	170553	84458	**308352**	164951
Normalized	79.93%	69.63%	72.61%	63.48%	50.64%	55.21%	27.24%	98.6%	53.13%	79.6%	70.75%	71.46%	66.41%	50.09%	55.31%	27.39%	100%	53.49%
Standard Deviation	4.9%	3.2%	4.2%	6.9%	0.1%	0.1%	0.5%	5.3%	8.6%	8.8%	3.4%	4.8%	0.2%	3.1%	0.2%	0.1%	0.2%	5.1%

Clear Linux - July 2018 Performance

FFTE - N.6.1.C.F.R (MFLOPS)	7425	2099	7507	6954	2712	5808	6356	8691	6151	7420	7521	2099	6978	2714	5809	6382	8628	6145
Normalized	85.43%	24.15%	86.38%	80.01%	31.2%	66.82%	73.14%	100%	70.78%	85.37%	86.54%	24.16%	80.29%	31.23%	66.84%	73.43%	99.27%	70.7%
Standard Deviation	0.2%	0.1%	0.1%	0.3%	0%	0.2%	0.5%	0.4%	0.1%	0.2%	0.4%	0.1%	0%	0%	0.1%	0%	0.1%	0.1%
FLAC Audio Encoding - WAV To	5.17	11.22	5.16	5.55	12.98	6.65	6.65	4.46	5.69	5.15	5.16	11.27	5.54	12.92	6.64	6.64	4.46	5.69
Normalized	86.27%	39.75%	86.43%	80.36%	34.36%	67.07%	67.07%	100%	78.38%	86.6%	86.43%	39.57%	80.51%	34.52%	67.17%	67.17%	100%	78.38%
Standard Deviation	0.5%	0.7%	0.4%	0.3%	0.1%	0.1%	0.1%	0.5%	0.3%	0.3%	0.4%	0.3%	0.1%	0.2%	0.2%	0.1%	0.1%	0.3%
Git - T.T.C.C.G.C (sec)	5.66	7.47	5.68	5.94	12.93	7.23	6.80	4.78	6.00	5.53	5.54	7.13	5.94	12.51	7.09	6.69	4.70	5.67
Normalized	83.04%	62.92%	82.75%	79.12%	36.35%	65.01%	69.12%	98.33%	78.33%	84.99%	84.84%	65.92%	79.12%	37.57%	66.29%	70.25%	100%	82.89%
Standard Deviation	0.4%	3.2%	4%	2.7%	0.6%	1.5%	1%	0%	2.7%	0.6%	3.1%	2.6%	0.2%	2.2%	1.2%	1.9%	0.1%	3.3%
glibc bench - sqrt (nanoseconds)	14.97	9.98	12.39	14.75	17.21	11.05	16.73	15.51	15.44	15.04	12.38	9.98	14.75	17.21	11.05	16.73	15.51	15.44
Normalized	66.67%	100%	80.55%	67.66%	57.99%	90.32%	59.65%	64.35%	64.64%	66.36%	80.61%	100%	67.66%	57.99%	90.32%	59.65%	64.35%	64.64%
Standard Deviation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.7%	0%	0%	0%	0%	0%	0%	0%	0%
glibc bench - ffsll (nanoseconds)	5.47	3.63	4.53	5.36	6.04	4.01	6.08	5.64	5.42	5.47	4.50	3.63	5.36	6.03	4.02	6.08	5.64	5.42
Normalized	66.36%	100%	80.13%	67.72%	60.1%	90.52%	59.7%	64.36%	66.97%	66.36%	80.67%	100%	67.72%	60.2%	90.3%	59.7%	64.36%	66.97%
Standard Deviation	0.5%	0.1%	0.9%	0%	0.1%	0%	0%	0%	0%	0.6%	0%	0.2%	0%	0%	0.1%	0%	0%	0%
glibc bench - pthread_once (nanosecon	6.34	4.22	5.24	6.24	7.05	4.67	7.07	6.56	6.30	6.34	5.24	4.22	6.23	7.04	4.67	7.07	6.56	6.30
Normalized	66.56%	100%	80.53%	67.63%	59.86%	90.36%	59.69%	64.33%	66.98%	66.56%	80.53%	100%	67.74%	59.94%	90.36%	59.69%	64.33%	66.98%
Standard Deviation	0%	0.1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Clear Linux - July 2018 Performance

GNU MPC - M.P.B (Global Score)	9150	7153	9257	8643	3887	7243	7303	10733	7803	9180	9320	7190	8673	3883	7267	7303	10867	7860
Normalized	84.2%	65.82%	85.18%	79.53%	35.77%	66.65%	67.2%	98.77%	71.8%	84.48%	85.76%	66.16%	79.81%	35.73%	66.87%	67.2%	100%	72.33%
Standard Deviation	0.7%	0.1%	0.6%	0.1%	0.1%	0.2%	0.1%	1.1%	0.6%	0.5%	0.4%	0.1%	0.1%	0.4%	0.1%	0.1%	0.5%	0.3%
GraphicsMagick - Resizing (Iterations/min)	195	138	197	180	100	150		233	200	208	209	147	193	105	160		249	210
Normalized	78.31%	55.42%	79.12%	72.29%	40.16%	60.24%		93.57%	80.32%	83.53%	83.94%	59.04%	77.51%	42.17%	64.26%		100%	84.34%
Standard Deviation					0.6%						0.3%							
Hackbench - 1 - Thread (sec)	4.78	4.99	4.93	7.88	8.17	9.51	15.64	3.92	4.80	4.99	5.21	5.20	8.17	8.45	9.71	16.18	4.11	5.09
Normalized	82.01%	78.56%	79.51%	49.75%	47.98%	41.22%	25.06%	100%	81.67%	78.56%	75.24%	75.38%	47.98%	46.39%	40.37%	24.23%	95.38%	77.01%
Standard Deviation	0.2%	0.4%	0.3%	0.2%	0.1%	0.2%	0.6%	0.3%	0.3%	0%	0.2%	1.1%	0.1%	0.6%	1.1%	0.2%	0.1%	0.3%
Hackbench - 4 - Process	18.06	17.09	18.89	30.29	29.29	36.16	58.73	14.63	18.30	19.08	20.19	18.08	31.62	30.63	37.46	61.59	15.49	19.48
Normalized	81.01%	85.61%	77.45%	48.3%	49.95%	40.46%	24.91%	100%	79.95%	76.68%	72.46%	80.92%	46.27%	47.76%	39.05%	23.75%	94.45%	75.1%
Standard Deviation	0.1%	0.4%	0.3%	0.4%	0.2%	0.3%	0.4%	0.3%	0.1%	0.1%	0.4%	0.2%	0.5%	0.2%	0.5%	0.3%	0.1%	0%
Himeno Benchmark - P.P.S (MFLOPS)	2324	2097	2401	2271	1036	1973	2012	2658	1909	2384	2437	2061	2308	1035	1975	1839	2684	1978
Normalized	86.59%	78.11%	89.46%	84.61%	38.62%	73.51%	74.98%	99.03%	71.12%	88.81%	90.78%	76.79%	85.98%	38.58%	73.58%	68.52%	100%	73.71%
Standard Deviation	0.7%	0.5%	3.4%	1.3%	1.3%	0.9%	0.3%	1.4%	4.5%	0.2%	3.1%	1%	1.9%	1.6%	0.7%	1.1%	1.2%	1%
IOzone - 4Kb - 8GB - Write Performance (MB/s)	153.51	373.10	491.10	305.95	285.88	70.58	156.62	503.80	55.96	154.67	491.28	443.43	310.63	286.12	71.99	156.50	503.48	57.38
Normalized	30.47%	74.06%	97.48%	60.73%	56.74%	14.01%	31.09%	100%	11.11%	30.7%	97.51%	88.02%	61.66%	56.79%	14.29%	31.06%	99.94%	11.39%
Standard Deviation	14.2%	11.3%	0.1%	8.2%	0.2%	3.2%	14%	0.1%	2.6%	13.7%	0.1%	6%	7.1%	0.1%	2.7%	14.1%	0.1%	3.3%

Clear Linux - July 2018 Performance

LAME MP3 Encoding - WAV To MP3 (sec)	9.05	17.43	8.97	9.65	20.35	11.58	10.54	7.75	9.25	9.02	8.97	17.01	9.66	20.26	11.59	10.55	7.75	9.29
Normalized	85.64%	44.46%	86.4%	80.31%	38.08%	66.93%	73.53%	100%	83.78%	85.92%	86.4%	45.56%	80.23%	38.25%	66.87%	73.46%	100%	83.42%
Standard Deviation	0.5%	0.8%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.4%	0.1%	0.3%	0%	0.2%	0.1%	0.2%	0.2%	0.4%
Minion - Solitaire (sec)	69.18	88.99	68.15	74.99	154.33	88.42	81.24	59.24	70.72	67.52	67.38	87.22	74.26	154.32	86.94	80.04	58.52	70.24
Normalized	84.59%	65.76%	85.87%	78.04%	37.92%	66.18%	72.03%	98.78%	82.75%	86.67%	86.85%	67.09%	78.8%	37.92%	67.31%	73.11%	100%	83.31%
Standard Deviation	0.2%	0.6%	0.5%	0.2%	0%	0.1%	0.5%	0.2%	0.1%	0.7%	0.4%	0.2%	0.4%	0.2%	0.5%	0.9%	0.7%	0.5%
N-Queens - Elapsed Time (sec)	40.07	34.42	39.97	58.81	54.36	71.88		31.98	35.01	39.56	39.44	33.99	58.62	54.85	71.64		31.55	35.07
Normalized	78.74%	91.66%	78.93%	53.65%	58.04%	43.89%		98.66%	90.12%	79.75%	79.99%	92.82%	53.82%	57.52%	44.04%		100%	89.96%
Standard Deviation	0%	0%	0%	0%	0.1%	0%		0.1%	0%	0%	0%	0.1%	0%	0%	0%		0%	0%
NGINX Benchmark - S.W.P.S (Reqs/sec)	40342	31718	40115	37530	19582	31874	33666	49729	40339	37689	37738	30271	32420	17782	28949	32848	45405	36601
Normalized	81.12%	63.78%	80.67%	75.47%	39.38%	64.09%	67.7%	100%	81.12%	75.79%	75.89%	60.87%	65.19%	35.76%	58.21%	66.05%	91.31%	73.6%
Standard Deviation	1%	0.5%	0.6%	0.2%	0.2%	0.4%	0.4%	0.4%	0.2%	0.3%	1%	0.3%	0.3%	0.7%	0.6%	0.6%	0.4%	1.2%
OpenSSL - R.4.b.P (Signs/sec)	676.93	788.17	668.80	561.87	572.47	462.23	281.20	848.23	651.47	675.33	665.77	786.60	563.43	572.10	460.83	279.70	846.70	646.87
Normalized	79.81%	92.92%	78.85%	66.24%	67.49%	54.49%	33.15%	100%	76.8%	79.62%	78.49%	92.73%	66.42%	67.45%	54.33%	32.97%	99.82%	76.26%
Standard Deviation	0%	0.1%	0.1%	0.5%	0.2%	0.1%	0.4%	0.1%	0%	0.1%	0%	0.2%	0.1%	0.1%	0.1%	0.5%	0%	0.1%
OpenSSL - R.4.b.P (Signs/sec)	1097	1272	1044	960.13	973.37	773.73	306.07	1374	707.00	1096	1042	1278	929.87	978.40	773.47	305.73	1374	707.33
Normalized	79.78%	92.58%	75.99%	69.86%	70.82%	56.29%	22.27%	100%	51.44%	79.77%	75.81%	92.95%	67.65%	71.19%	56.28%	22.24%	99.98%	51.46%
Standard Deviation	0%	0.8%	0.8%	0.2%	0.6%	2.9%	0%	0%	0%	0%	0.6%	0%	2.9%	0.1%	2.8%	0.2%	0%	0%
OpenSSL - R.4.b.P (Signs/sec)	1101	1277	1053	949.30	969.60	781.03	300.37	1376	708.50	1098	1043	1272	949.00	967.83	787.00	304.77	1375	708.07
Normalized	79.97%	92.82%	76.55%	68.98%	70.46%	56.75%	21.83%	100%	51.48%	79.78%	75.82%	92.43%	68.96%	70.33%	57.19%	22.15%	99.94%	51.45%
Standard Deviation	0.1%	0.5%	0.2%	3%	2.6%	2.4%	1.2%	0.6%	0%	0%	0.2%	0.6%	3.2%	0.3%	0.7%	0.8%	0.1%	0%

Clear Linux - July 2018 Performance

OSBench - Create Files (us/Event)	11.26	14.35	11.14	12.23	29.71	14.30	12.99	**9.61**	14.11	11.62	11.35	14.56	12.51	**30.54**	14.61	13.25	9.82	14.15
Normalized	85.35%	66.97%	86.27%	78.58%	32.35%	67.2%	73.98%	100%	68.11%	82.7%	84.67%	66%	76.82%	31.47%	65.78%	72.53%	97.86%	67.92%
Standard Deviation	0.2%	0.3%	0.8%	0.7%	0.5%	1%	0.7%	0.1%	0.4%	0.5%	0.8%	0.4%	1.2%	1.8%	0.3%	0.4%	0.6%	0.2%
OSBench - Create Threads (us/Event)	12.63	19.14	12.55	13.81	25.38	16.24	14.89	**10.40**	11.82	12.76	12.98	19.94	14.30	**25.75**	16.68	15.14	10.51	12.39
Normalized	82.34%	54.34%	82.87%	75.31%	40.98%	64.04%	69.85%	100%	87.99%	81.5%	80.12%	52.16%	72.73%	40.39%	62.35%	68.69%	98.95%	83.94%
Standard Deviation	3.1%	0.3%	2.9%	3.4%	0.4%	0.2%	3.2%	3.3%	0.5%	0.6%	3%	3.4%	3.4%	0.1%	0.3%	2.6%	0.2%	2.5%
OSBench - Launch Programs (us/Event)	39.00	45.93	39.48	64.57	66.38	78.13	120.86	**31.33**	39.75	40.44	40.63	47.50	66.55	67.62	81.09	**124.88**	32.09	40.99
Normalized	80.33%	68.21%	79.36%	48.52%	47.2%	40.1%	25.92%	100%	78.82%	77.47%	77.11%	65.96%	47.08%	46.33%	38.64%	25.09%	97.63%	76.43%
Standard Deviation	0.7%	0.8%	0.4%	0.9%	0.5%	0.7%	1.1%	0.3%	0.5%	0.3%	0.7%	1.2%	0.4%	0.2%	0.5%	0.1%	0.4%	0.7%
OSBench - Memory Allocations (Ns/Event)	55.26	75.66	57.15	57.07	**102.17**	64.18	62.26	46.21	72.95	55.39	55.75	76.05	57.19	102.03	64.05	62.16	**45.08**	71.30
Normalized	81.58%	59.58%	78.88%	78.99%	44.12%	70.24%	72.41%	97.55%	61.8%	81.39%	80.86%	59.28%	78.82%	44.18%	70.38%	72.52%	100%	63.23%
Standard Deviation	0.1%	0.1%	5.8%	0.1%	0.2%	0.1%	0.1%	5.7%	7.7%	0.1%	0.1%	0.2%	0.1%	0.1%	0%	0.1%	0.2%	1.6%
OSBench - Create Processes (us/Event)				**22.09**		26.92	40.42						22.76		28.25	**41.30**		
Normalized				100%		82.06%	54.65%						97.06%		78.19%	53.49%		
Standard Deviation				0.6%		0.2%	0.5%						0.4%		2.5%	1%		
PBZIP2 Compression - 2.F.C (sec)	8.82	7.35	9.36	12.72	12.21	15.26	**25.14**	7.12	9.73	8.87	9.31	7.34	12.75	12.21	15.25	25.11	**7.05**	9.59
Normalized	79.93%	95.92%	75.32%	55.42%	57.74%	46.2%	28.04%	99.02%	72.46%	79.48%	75.73%	96.05%	55.29%	57.74%	46.23%	28.08%	100%	73.51%
Standard Deviation	0.5%	0.4%	3.1%	3.1%	0.1%	3.2%	2.4%	0.2%	3.2%	0.1%	3.2%	0.2%	3.3%	0.1%	3.4%	2.3%	0.4%	3.4%
PHPBench - P.B.S (Score)	782695	606001	790746	729289	**320732**	608999	658366	**914326**	722197	773479	778082	598355	721258	322480	601995	652342	897778	729206
Normalized	85.6%	66.28%	86.48%	79.76%	35.08%	66.61%	72.01%	100%	78.99%	84.6%	85.1%	65.44%	78.88%	35.27%	65.84%	71.35%	98.19%	79.75%

Clear Linux - July 2018 Performance

Standard Deviation	0.6%	0.2%	0.2%	0.2%	0.1%	0.1%	0.4%	0.1%	0.6%	0.4%	0%	0.3%	0.2%	0.1%	0.6%	0.1%	0.4%	0.2%
PostMark - D.T.P (TPS)	6697	5137	6759	6357	2873	5322	5813	8243	6049	6522	6522	4967	6199	2798	5173	5725	7980	5718
Normalized	81.24%	62.32%	82%	77.12%	34.85%	64.56%	70.52%	100%	73.38%	79.12%	79.12%	60.26%	75.2%	33.94%	62.76%	69.45%	96.81%	69.37%
Standard Deviation	1.5%	1.2%	2.7%	1.5%	%	2.9%	%	1.9%	1.4%	1.5%	1.5%	1.2%	1.4%	0.6%	1.2%	1.3%	1.8%	3.3%
R Benchmark (sec)	0.1558	0.3496	0.1620	0.1605	0.2829	0.1874		0.1309	0.2145	0.1548	0.1611	0.3445	0.1589	0.2827	0.1861		0.1307	0.2126
Normalized	83.89%	37.39%	80.68%	81.43%	46.2%	69.74%		99.85%	60.93%	84.43%	81.13%	37.94%	82.25%	46.23%	70.23%		100%	61.48%
Standard Deviation	0.6%	1.1%	1.1%	0.3%	0.6%	0.2%		1.1%	0.9%	0.2%	1.2%	0.2%	0.4%	0.9%	0.2%		0.5%	0.9%
Redis - LPUSH (Reqs/sec)	2021686	1503386	2023172	1853056	893680	1498803	1718237	2496174	2032560	1921084	1884637	1398658	1804149	832222	1474431	1628942	2386699	1939239
Normalized	80.99%	60.23%	81.05%	74.24%	35.8%	60.04%	68.83%	100%	81.43%	76.96%	75.5%	56.03%	72.28%	33.34%	59.07%	65.26%	95.61%	77.69%
Standard Deviation	1%	3.4%	1.4%	0.7%	0.6%	3.2%	0.5%	1.4%	0.5%	1.9%	3.2%	0.8%	1.2%	6.8%	1.5%	1.6%	0.6%	0.1%
Redis - GET (Reqs/sec)	2693570	1907651	2693159	2487819	1163545	2055711	2332852	3268136	2688575	2566300	2622406	1874001	2421374	1125095	1926002	2254016	3164831	2588465
Normalized	82.42%	58.37%	82.41%	76.12%	35.6%	62.9%	71.38%	100%	82.27%	78.52%	80.24%	57.34%	74.09%	34.43%	58.93%	68.97%	96.84%	79.2%
Standard Deviation	1.8%	1.9%	0.9%	1.2%	2%	2.6%	0.5%	0.9%	1.5%	0.1%	0.4%	3.3%	0.6%	2.9%	5%	0.7%	1.1%	0.4%
Redis - SET (Reqs/sec)	1973961	1432060	2016299	1876204	870598	1529026	1770273	2455250	1992069	1875264	1944295	1419149	1806228	825085	1485506	1712332	2403855	1926882
Normalized	80.4%	58.33%	82.12%	76.42%	35.46%	62.28%	72.1%	100%	81.14%	76.38%	79.19%	57.8%	73.57%	33.6%	60.5%	69.74%	97.91%	78.48%
Standard Deviation	1.4%	0.9%	1.1%	0.5%	0.6%	2.7%	1.8%	1.3%	0.5%	3.4%	0.5%	2.8%	0.9%	0.2%	1.9%	0.2%	0.2%	0.9%
Schbench - 2 - 6 (usec, 99.9th Latency Percentile)	16867	114	15205	31605	18117	30731	44480	14797	14840	17531	15643	113	31035	17184	31008	45632	15245	14941
Normalized	0.67%	99.12%	0.74%	0.36%	0.62%	0.37%	0.25%	0.76%	0.76%	0.64%	0.72%	100%	0.36%	0.66%	0.36%	0.25%	0.74%	0.76%
Standard Deviation	10.8%	2.8%	12.4%	8.3%	15.1%	3.5%	1.2%	19%	13.8%	15.2%	17.5%		4.8%	17.5%	3.1%	1.7%	16.5%	12.8%
Schbench - 4 - 8 (usec, 99.9th Latency Percentile)	46357	15005	45675	57024	45333	58048	118827	46443	45760	46016	45803	15144	58133	45333	59115	116736	46357	46016
Normalized	32.37%	100%	32.85%	26.31%	33.1%	25.85%	12.63%	32.31%	32.79%	32.61%	32.76%	99.08%	25.81%	33.1%	25.38%	12.85%	32.37%	32.61%
Standard Deviation	1.3%	11.8%	1.3%	%	1.3%	%	4.2%	1%	3.1%	%	0.8%	11.4%	2.8%	3.5%	4.3%	3.4%	2.6%	2.2%

Clear Linux - July 2018 Performance

Scikit-Learn (sec)	10.76	14.87	10.68	11.30	21.96	13.28	22.60	8.96	13.33	10.71	10.70	14.79	11.32	21.90	13.47	**22.70**	**8.90**	13.46
Normalized	82.71 %	59.85 %	83.33 %	78.76 %	40.53 %	67.02 %	39.38 %	99.33 %	66.77 %	83.1%	83.18 %	60.18 %	78.62 %	40.64 %	66.07 %	39.21 %	100%	66.12 %
Standard Deviation	0.4%	0.3%	0.5%	0.5%	0.2%	0.4%	0.2%	0.5%	4.6%	1%	0.6%	0.2%	1.9%	0%	0.1%	0.5%	0.6%	4.4%
SciMark - Composite (Mflops)	1730	1379	1735	1607	857.24	1424	1377	**2078**	1487	1693	1693	1330	1566	**856.44**	1369	1356	2024	1505
Normalized	83.25 %	66.34 %	83.49 %	77.35 %	41.25 %	68.54 %	66.26 %	100%	71.57 %	81.49 %	81.46 %	63.99 %	75.36 %	41.21 %	65.89 %	65.25 %	97.4%	72.43 %
Standard Deviation	3.3%	0.5%	1.1%	0.3%	0%	0.3%	0.1%	3.9%	3.4%	0.8%	0.8%	0.1%	0.2%	0%	0.1%	0%	0.2%	1.9%
Smallpt - G.I.R.1.S (sec)	21	**49**	22	31	30	38		17	22	21	23	**49**	31	30	38		**16**	22
Normalized	76.19 %	32.65 %	72.73 %	51.61 %	53.33 %	42.11 %		94.12 %	72.73 %	76.19 %	69.57 %	32.65 %	51.61 %	53.33 %	42.11 %		100%	72.73 %
Standard Deviation	2.8%		2.6%								2.5%						3.1%	
Sockperf - Throughput (Messages/sec)	583842	443551	599541	555091	220999	463391	550612	**709155**	501319	591069	588972	431026	552269	**208459**	458348	540238	702325	511630
Normalized	82.33 %	62.55 %	84.54 %	78.27 %	31.16 %	65.34 %	77.64 %	100%	70.69 %	83.35 %	83.05 %	60.78 %	77.88 %	29.4%	64.63 %	76.18 %	99.04 %	72.15 %
Standard Deviation	2.5%	1.1%	0.8%	0.6%	1.8%	0.5%	0.3%	0.6%	2.4%	1.1%	1.1%	0.9%	0.3%	3.1%	0.6%	1.1%	1.5%	1.9%
Sockperf - Latency Ping Pong (usec)	3.43	5.47	3.37	3.66	6.48	4.41	3.68	**2.82**	3.00	3.52	3.46	5.41	3.75	**6.79**	4.54	3.78	2.88	3.16
Normalized	82.22 %	51.55 %	83.68 %	77.05 %	43.52 %	63.95 %	76.63 %	100%	94%	80.11 %	81.5%	52.13 %	75.2%	41.53 %	62.11 %	74.6%	97.92 %	89.24 %
Standard Deviation	0.8%	3.4%	0.6%	0.6%	0.5%	1.7%	0.3%	0.5%	1%	0.9%	1%	2.2%	0.7%	0.7%	2.4%	0.4%	0.8%	0.5%
Sockperf - Latency Under Load (usec)	14.41	21.72	16.80	17.67	21.53	19.37	4.30	18.02	10.61	17.24	18.45	**29.75**	17.83	21.71	19.71	**4.19**	16.65	11.50
Normalized	29.08 %	19.29 %	24.94 %	23.71 %	19.46 %	21.63 %	97.44 %	23.25 %	39.49 %	24.3%	22.71 %	14.08 %	23.5%	19.3%	21.26 %	100%	25.17 %	36.43 %
Standard Deviation	8.6%	23.3%	7.9%	13.2%	0.9%	8.9%	7.4%	5.3%	1.1%	15.8%	21.5%	14.4%	15%	9.6%	12.7%	1.3%	28.6%	9.8%
SQLite - D.T.D (sec)	26.15	27.83	324.37	52.97	58.53	41.74	**23.15**	42.34	49.99	26.30	**324.83**	30.19	53.17	58.98	42.03	23.17	42.49	50.11
Normalized	88.53 %	83.18 %	7.14%	43.7%	39.55 %	55.46 %	100%	54.68 %	46.31 %	88.02 %	7.13%	76.68 %	43.54 %	39.25 %	55.08 %	99.91 %	54.48 %	46.2%
Standard Deviation	1.6%	16.2%	1.9%	65.5%	0.2%	6.2%	0.4%	0.4%	15.4%	2.7%	1.7%	0.3%	64.9%	0.3%	7.2%	0.4%	0.6%	13.7%

Clear Linux - July 2018 Performance

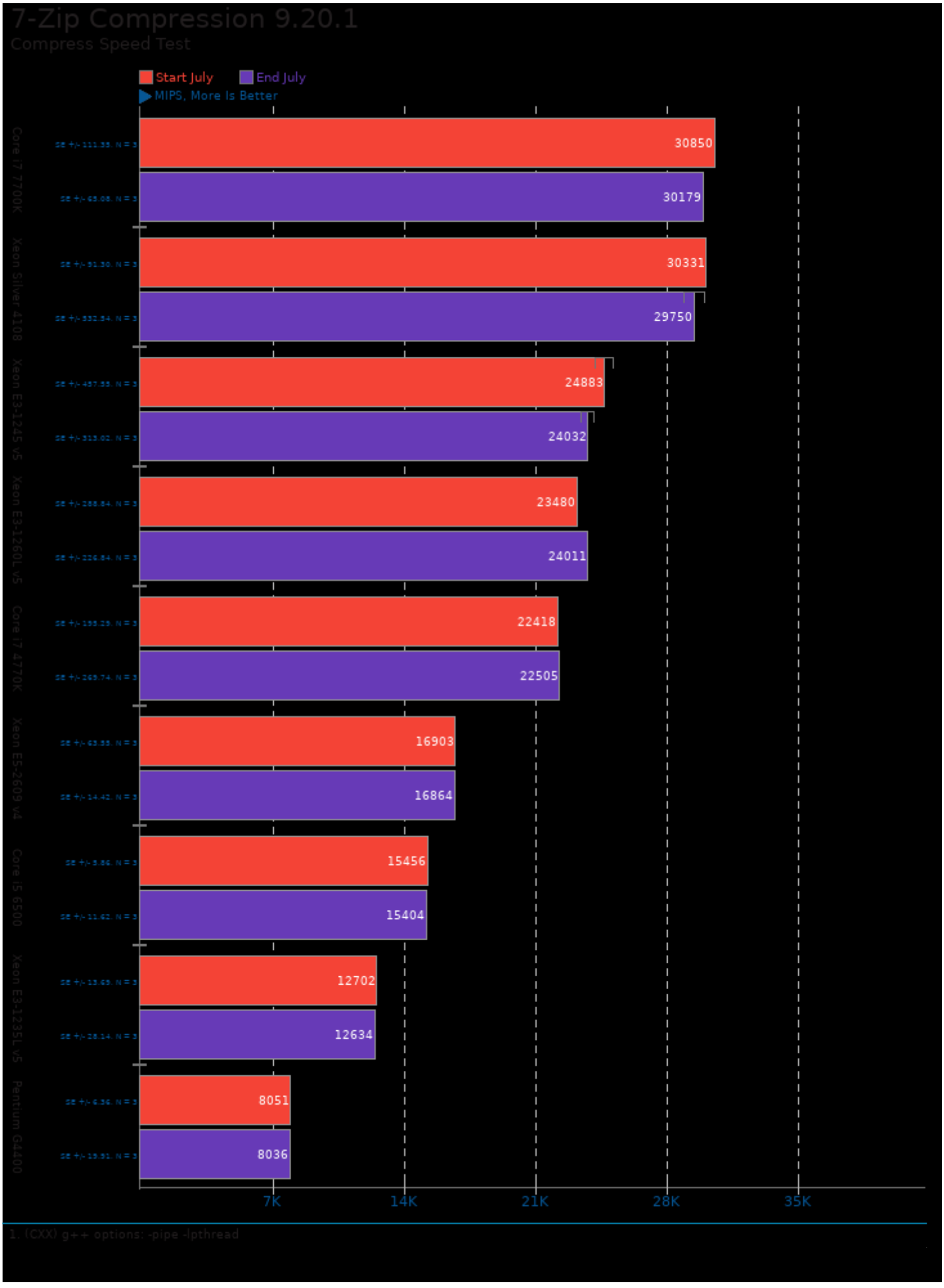
Systemd Total Boot Time - Total (ms)	14712	215292	273763	262598	16532	304565	353889	15107	81577	14711	318113	265870	342264	17193	392867	377092	156007	89047
Normalized	55.45%	3.79%	2.98%	3.11%	49.34%	2.68%	2.31%	54%	100%	55.45%	2.56%	3.07%	2.38%	47.45%	2.08%	2.16%	52.27%	91.61%
Systemd Total Boot Time - Kernel (ms)	856.40	1121	763.30	611.20	1141	897.70	707.90	836.70	555.50	1066	653.70	1389	777.40	1143	890.40	866.10	1059	854
Normalized	64.86%	49.56%	72.78%	90.89%	48.69%	61.88%	78.47%	66.39%	100%	52.11%	84.98%	40%	71.46%	48.6%	62.39%	64.14%	52.45%	65.05%
Tensorflow - Cifar10 (sec)	55.39	51.74	59.36	65.66	65.14	77.18	239.95	45.72	97.45	54.83	58.48	51.08	64.63	64.65	75.15	240.81	44.95	96.94
Normalized	81.15%	86.88%	75.72%	68.46%	69.01%	58.24%	18.73%	98.32%	46.13%	81.98%	76.86%	88%	69.55%	69.53%	59.81%	18.67%	100%	46.37%
Standard Deviation	0.1%	0.1%	0.1%	0.3%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.3%	1.3%	0.3%	0.2%	0.2%	0.1%	0.4%
Timed Apache Compilation - Time To Compile (sec)	25.65	29.98	26.06	30.97	45.53	36.97	52.44	20.80	26.98	25.89	26.36	30.16	31.37	45.98	37.34	53.02	21.04	26.91
Normalized	81.09%	69.38%	79.82%	67.16%	45.68%	56.26%	39.66%	100%	77.09%	80.34%	78.91%	68.97%	66.31%	45.24%	55.7%	39.23%	98.86%	77.29%
Standard Deviation	0.5%	0.5%	0.2%	0.6%	0.2%	0.3%	0.3%	0.1%	0.1%	0.4%	0.6%	0.5%	0.5%	0.3%	0.6%	0%	0.1%	0.5%
Tinymembench - - Standard Memcpy (MB/s)	14525	9462	13882	14321	8238	13551	12574	18969	6032	14588	13845	9774	14317	8162	13567	12567	18962	6031
Normalized	76.57%	49.88%	73.18%	75.5%	43.43%	71.43%	66.28%	100%	31.8%	76.9%	72.98%	51.53%	75.48%	43.03%	71.52%	66.25%	99.96%	31.79%
Tinymembench - - Standard Memset (MB/s)	32439	20345	32135	31065	10824	27682	31439	39573	15203	32389	32181	20922	31072	10836	27620	31395	39632	15205
Normalized	81.85%	51.34%	81.08%	78.38%	27.31%	69.85%	79.33%	99.85%	38.36%	81.72%	81.2%	52.79%	78.4%	27.34%	69.69%	79.22%	100%	38.36%
x264 - H.2.V.E (FPS)	210.82	216.63	205.01	154.54	151.01	126.73	75.04	272.42	207.74	213.59	205.14	218.10	155.26	151.75	126.91	75.32	273.31	206.16
Normalized	77.14%	79.26%	75.01%	56.54%	55.25%	46.37%	27.46%	99.67%	76.01%	78.15%	75.06%	79.8%	56.81%	55.52%	46.43%	27.56%	100%	75.43%
Standard Deviation	7.4%	0.4%	0.4%	1.7%	0.3%	0.5%	2.9%	1%	1.1%	3.6%	0.3%	0.5%	2.1%	0.1%	0.2%	3.2%	1.1%	1.1%

Clear Linux - July 2018 Performance

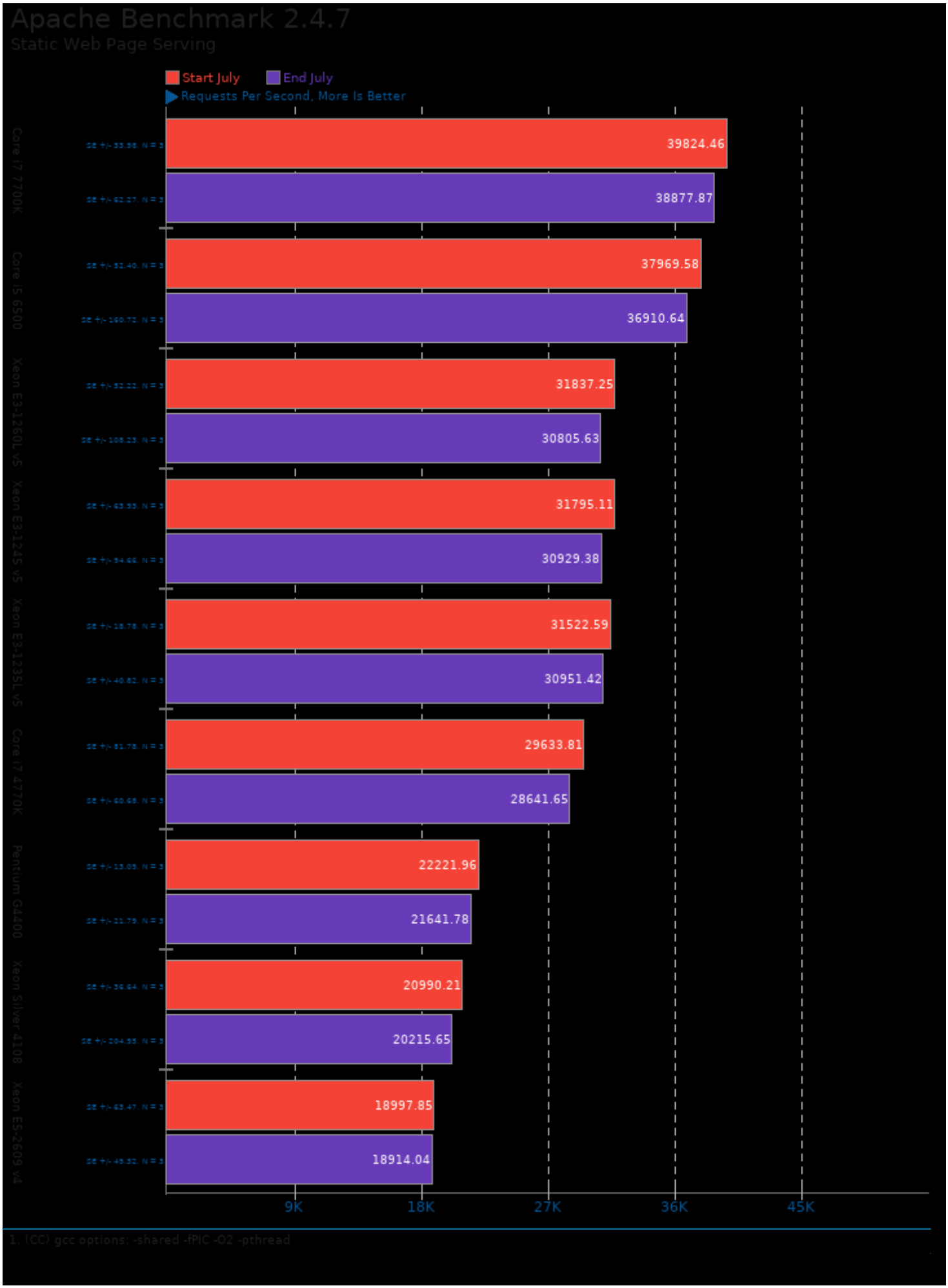
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1	112.93	137.50	107.56	110.27	151.11	120.62	123.30	**85.33**	107.83	113.11	107.25	137.92	110.51	**151.41**	120.77	123.35	85.78	108.03
Normalized	75.56%	62.06%	79.33%	77.38%	56.47%	70.74%	69.21%	100%	79.13%	75.44%	79.56%	61.87%	77.21%	56.36%	70.65%	69.18%	99.48%	78.99%
Standard Deviation	0.2%	0%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.3%	0.2%	0.4%	0%	0.1%	0.2%	0.1%	0.1%	0.3%	0.7%

Clear Linux - July 2018 Performance

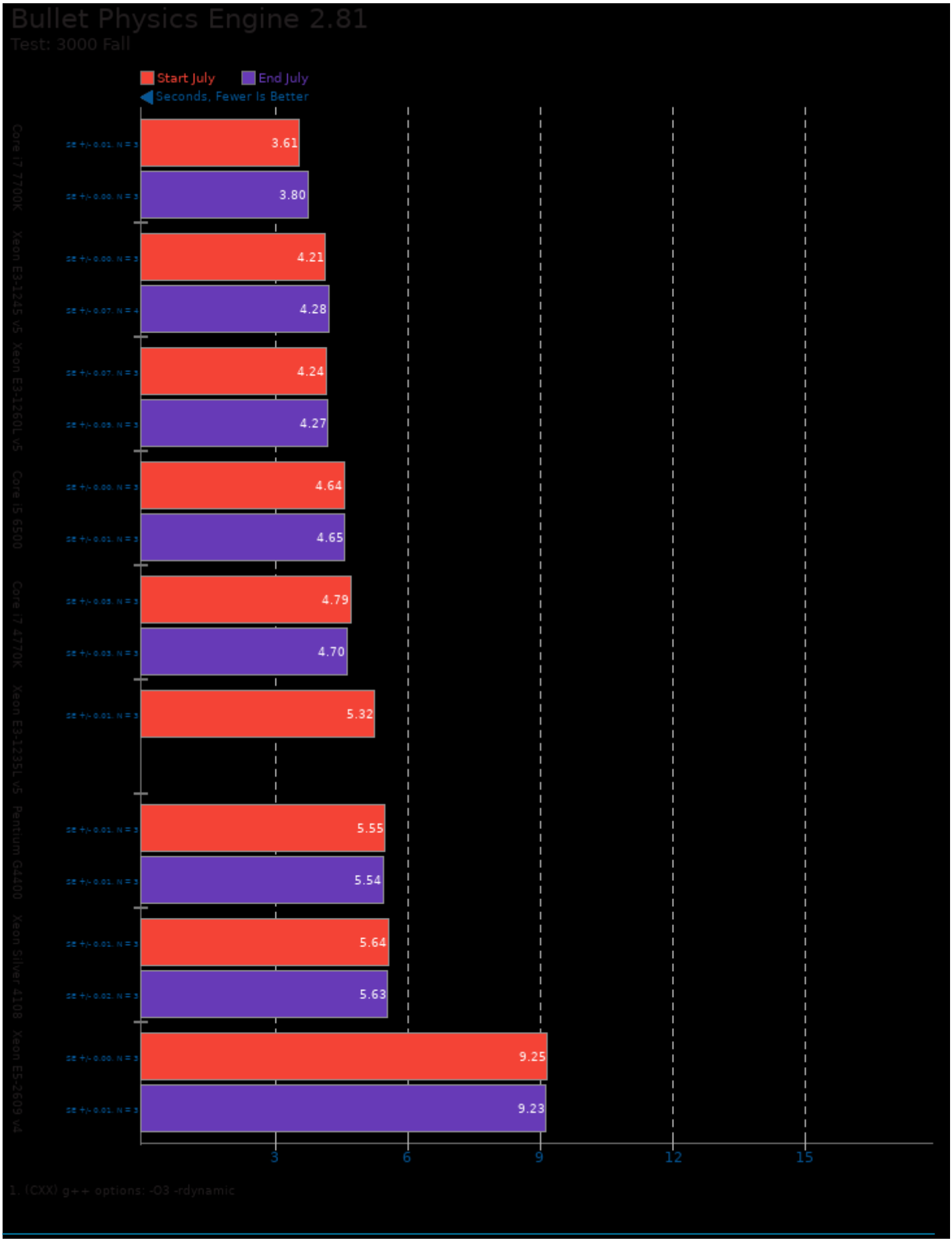
Clear Linux - July 2018 Performance



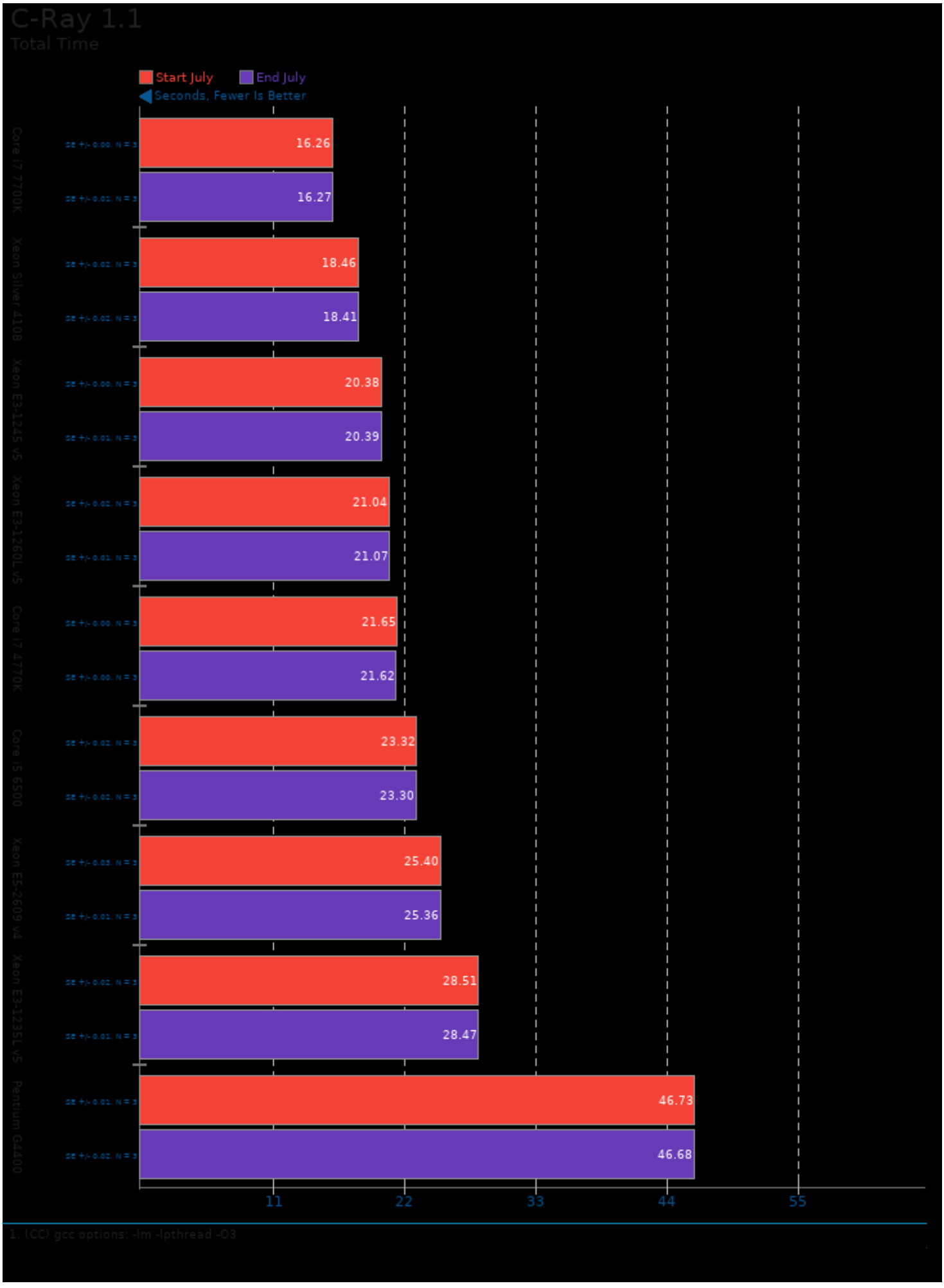
Clear Linux - July 2018 Performance



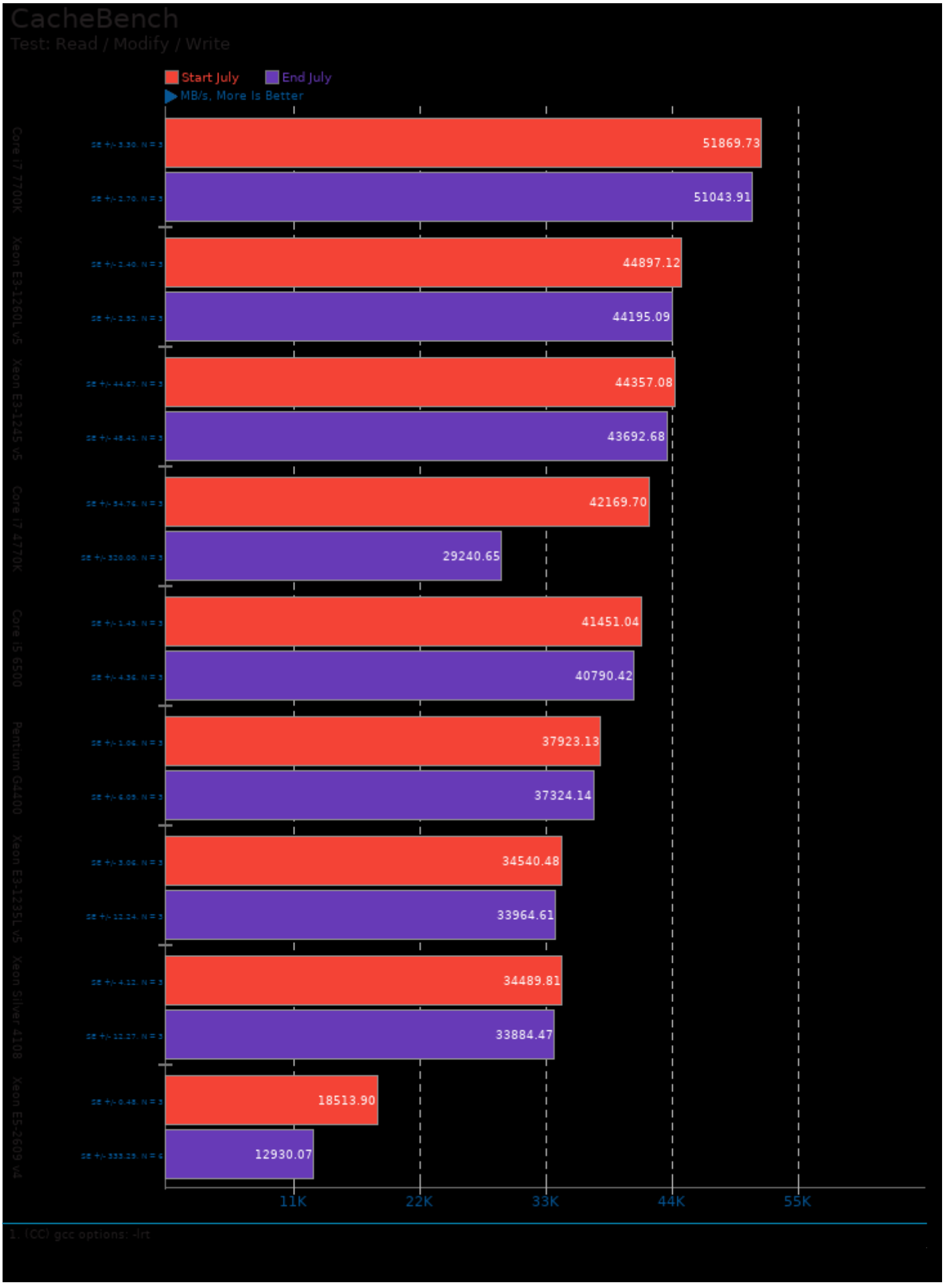
Clear Linux - July 2018 Performance



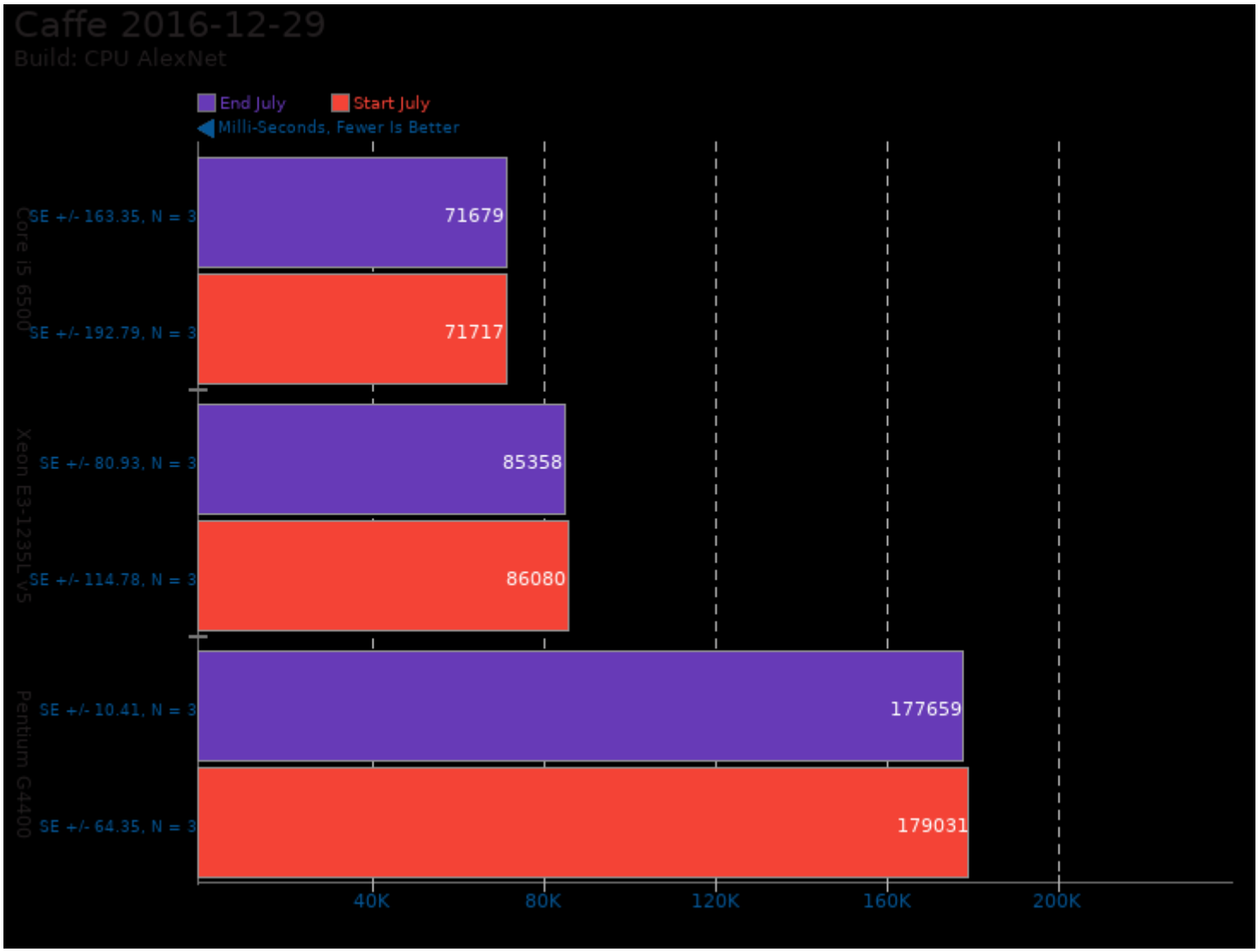
Clear Linux - July 2018 Performance



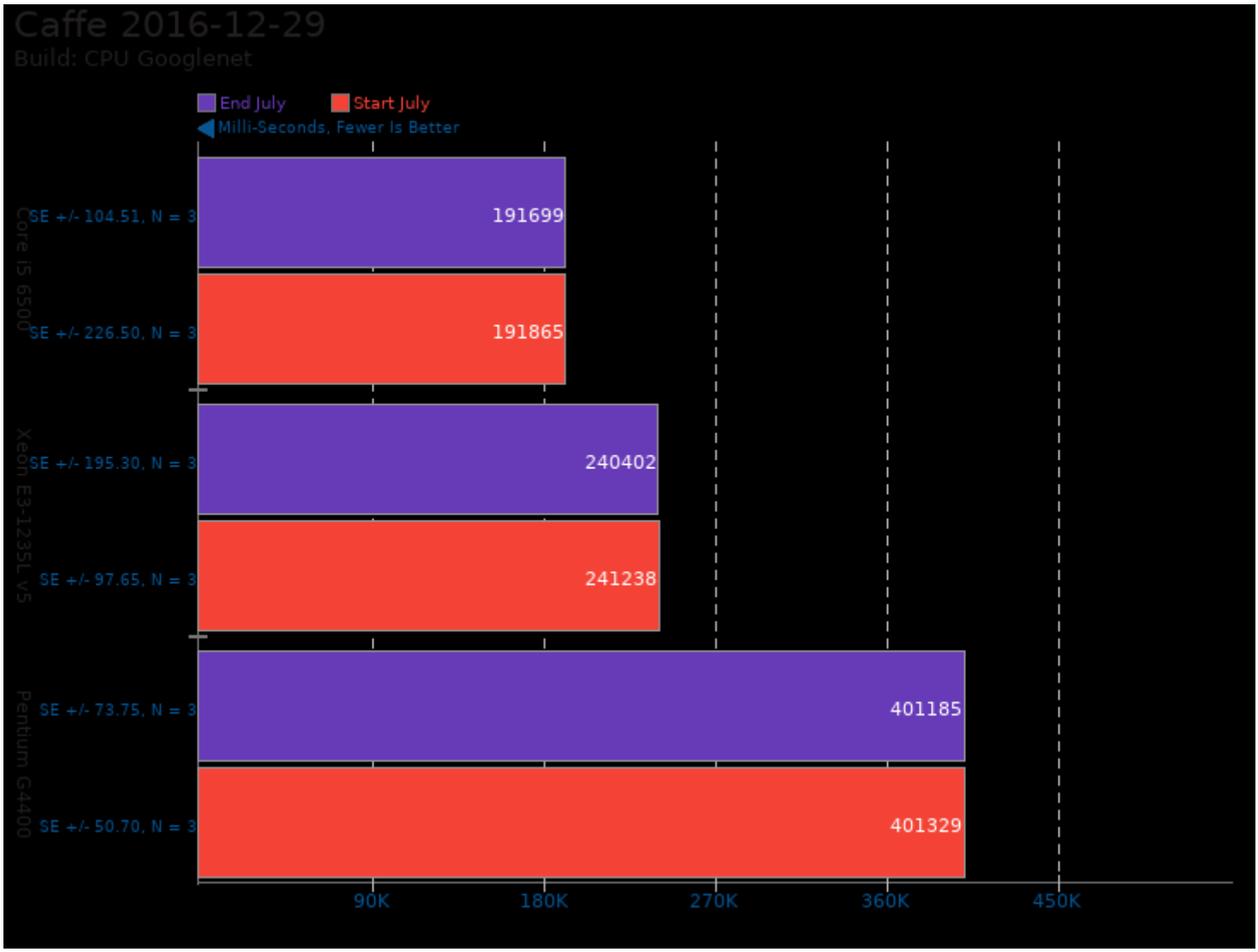
Clear Linux - July 2018 Performance



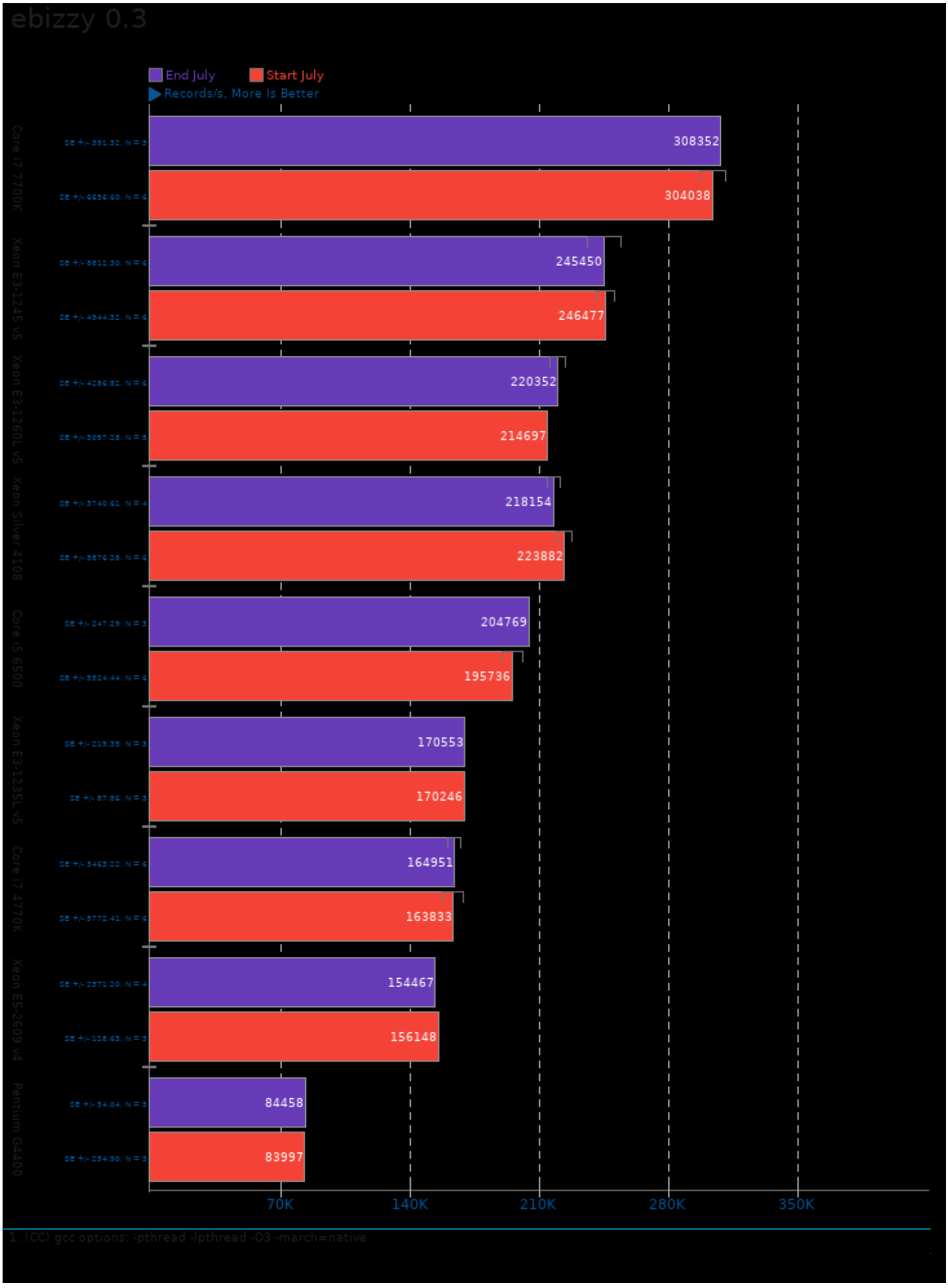
Clear Linux - July 2018 Performance



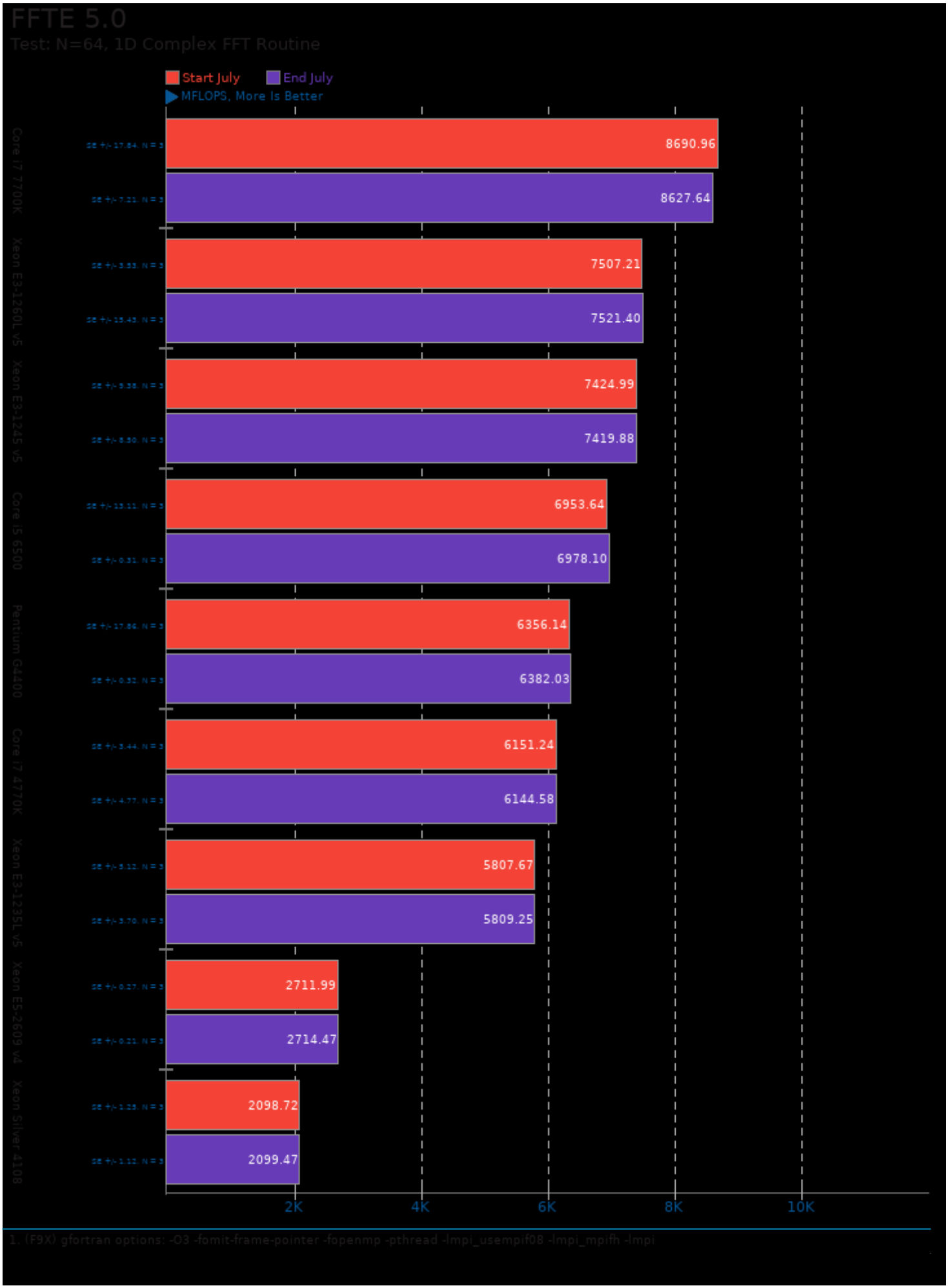
Clear Linux - July 2018 Performance



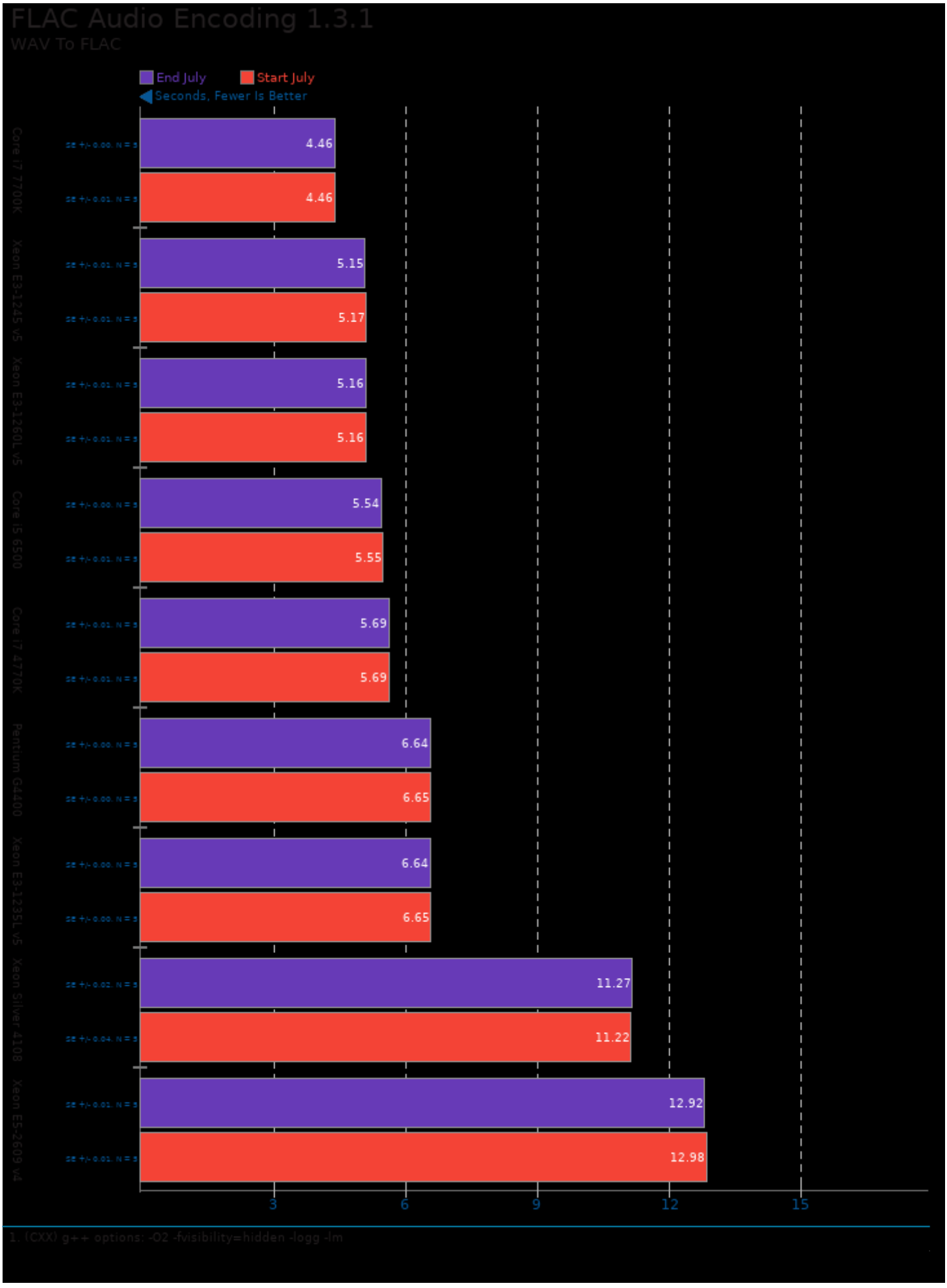
Clear Linux - July 2018 Performance



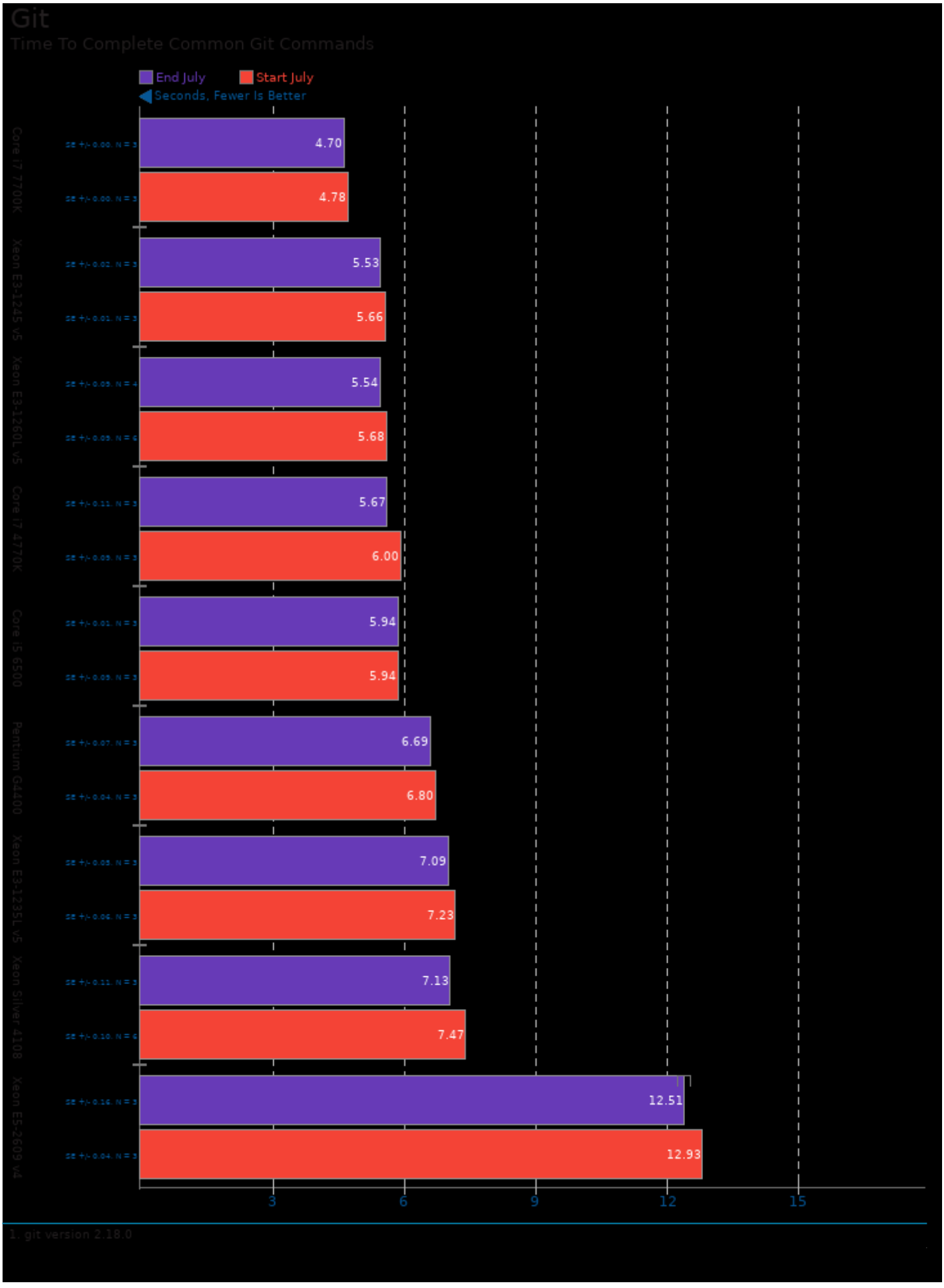
Clear Linux - July 2018 Performance



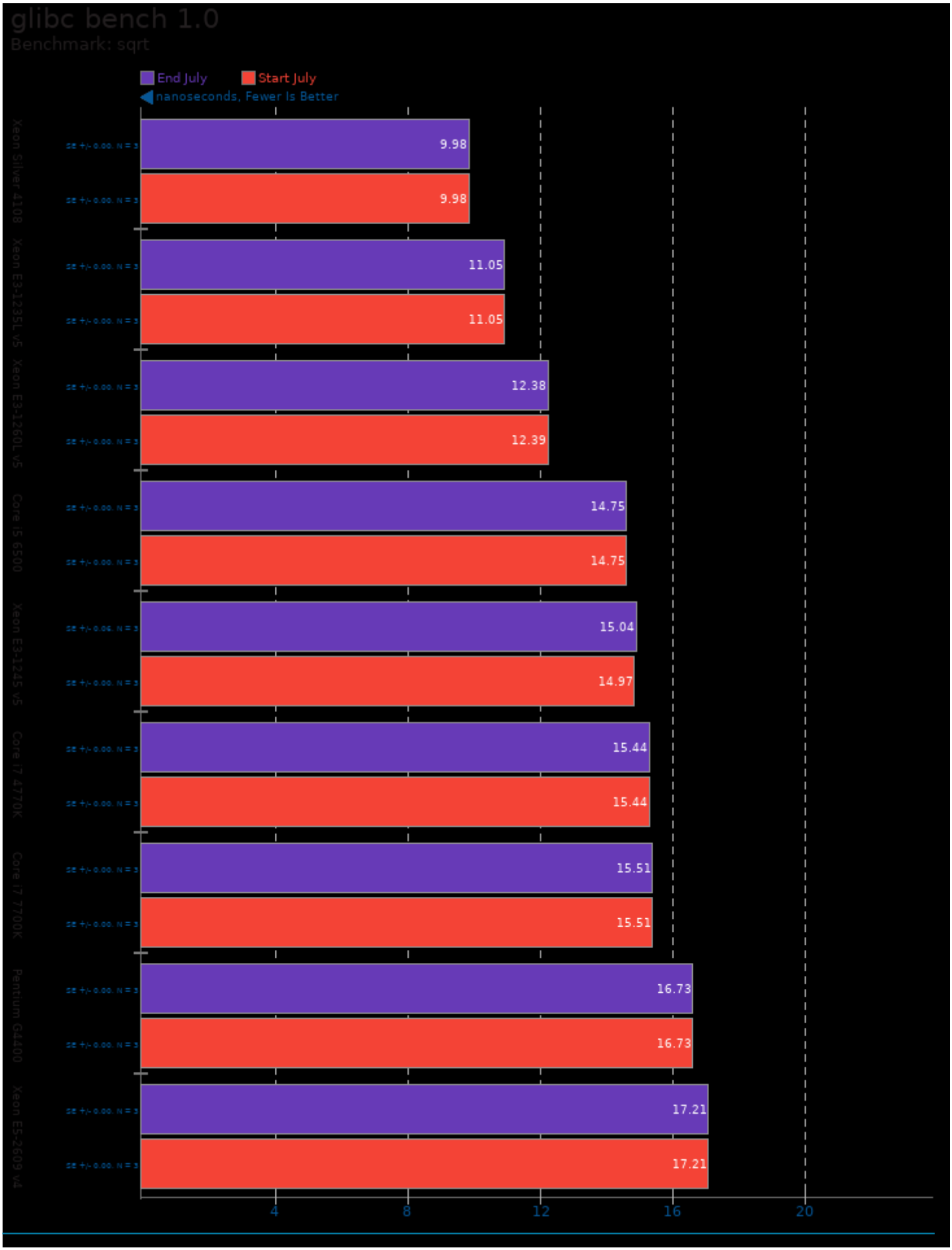
Clear Linux - July 2018 Performance



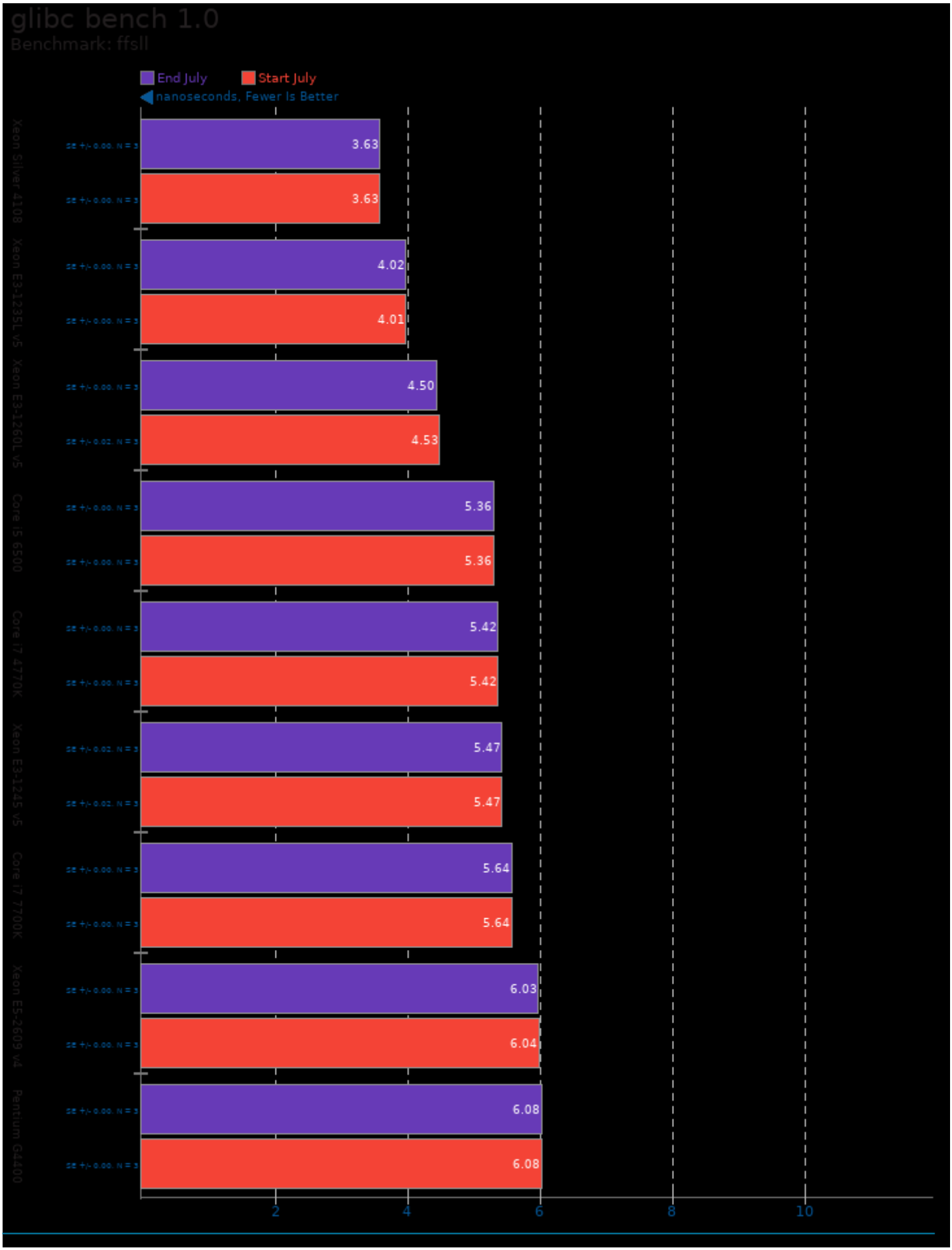
Clear Linux - July 2018 Performance



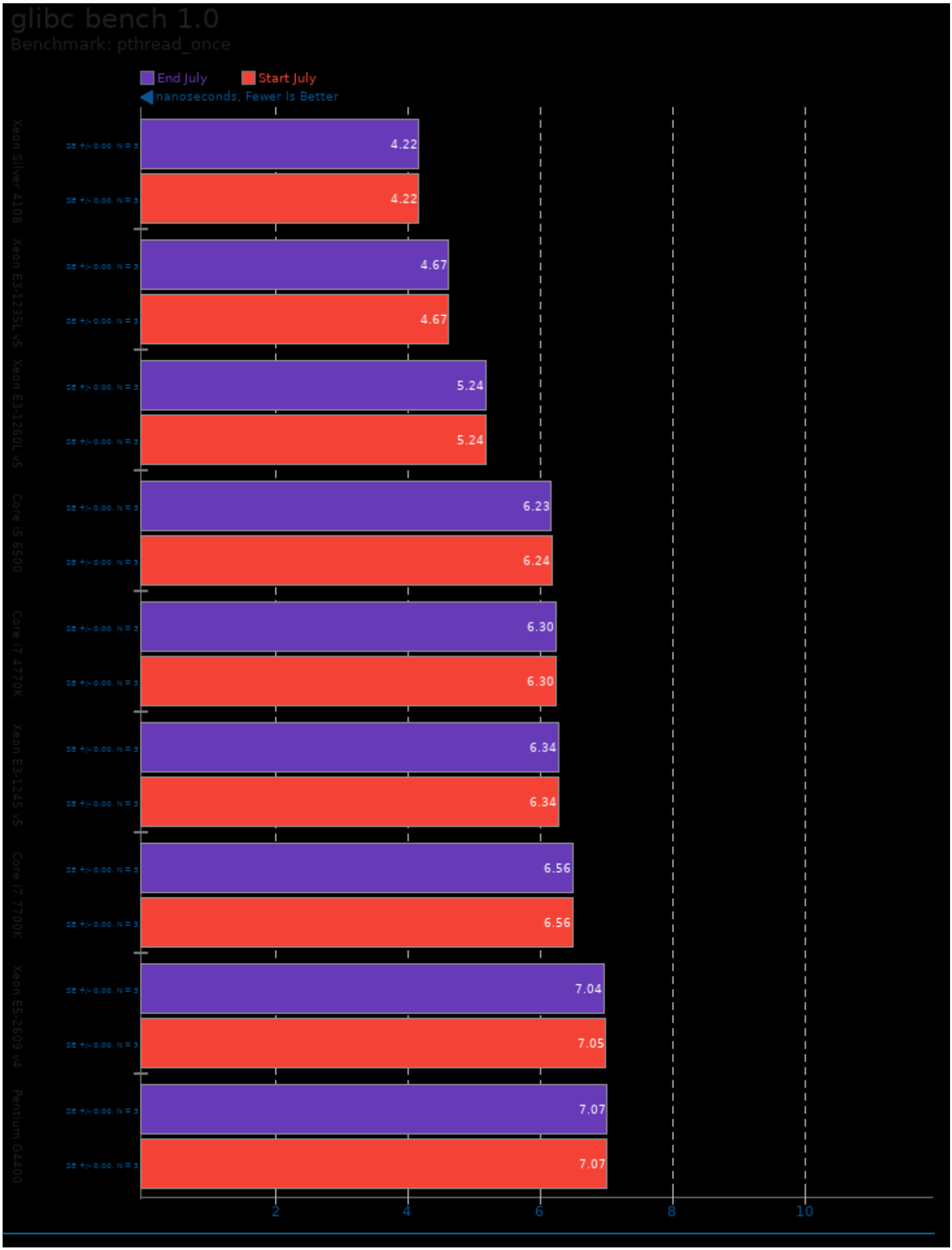
Clear Linux - July 2018 Performance



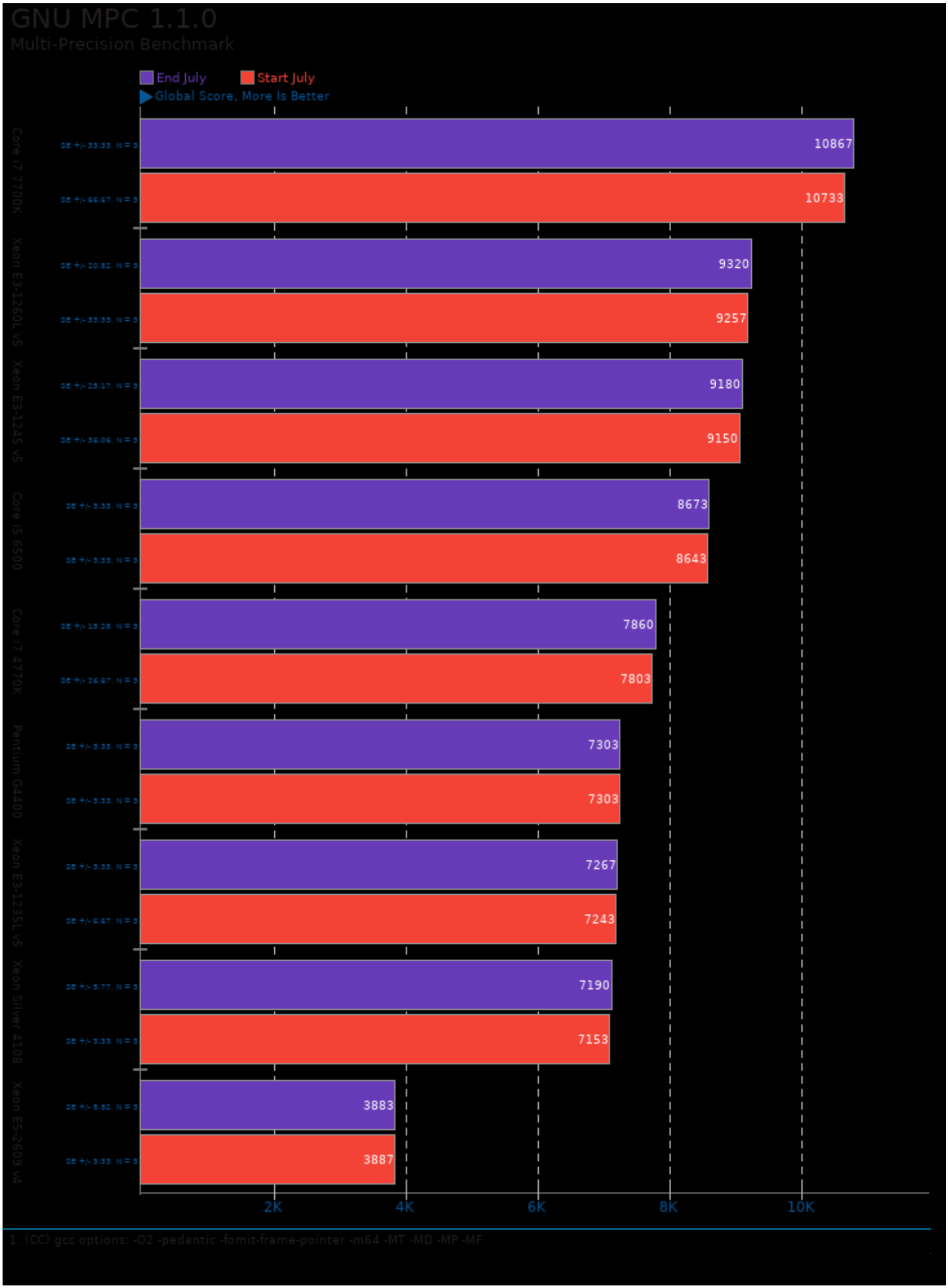
Clear Linux - July 2018 Performance



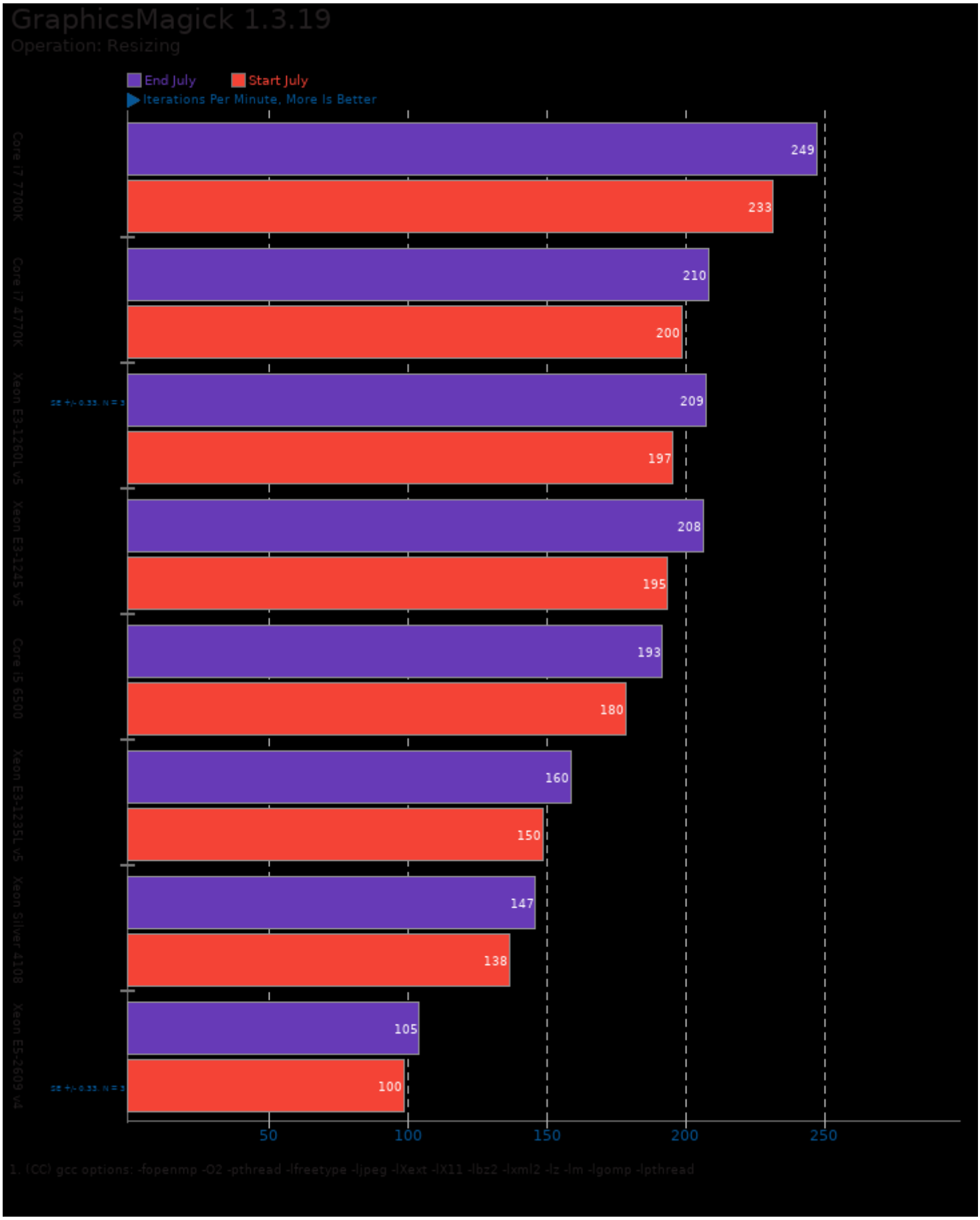
Clear Linux - July 2018 Performance



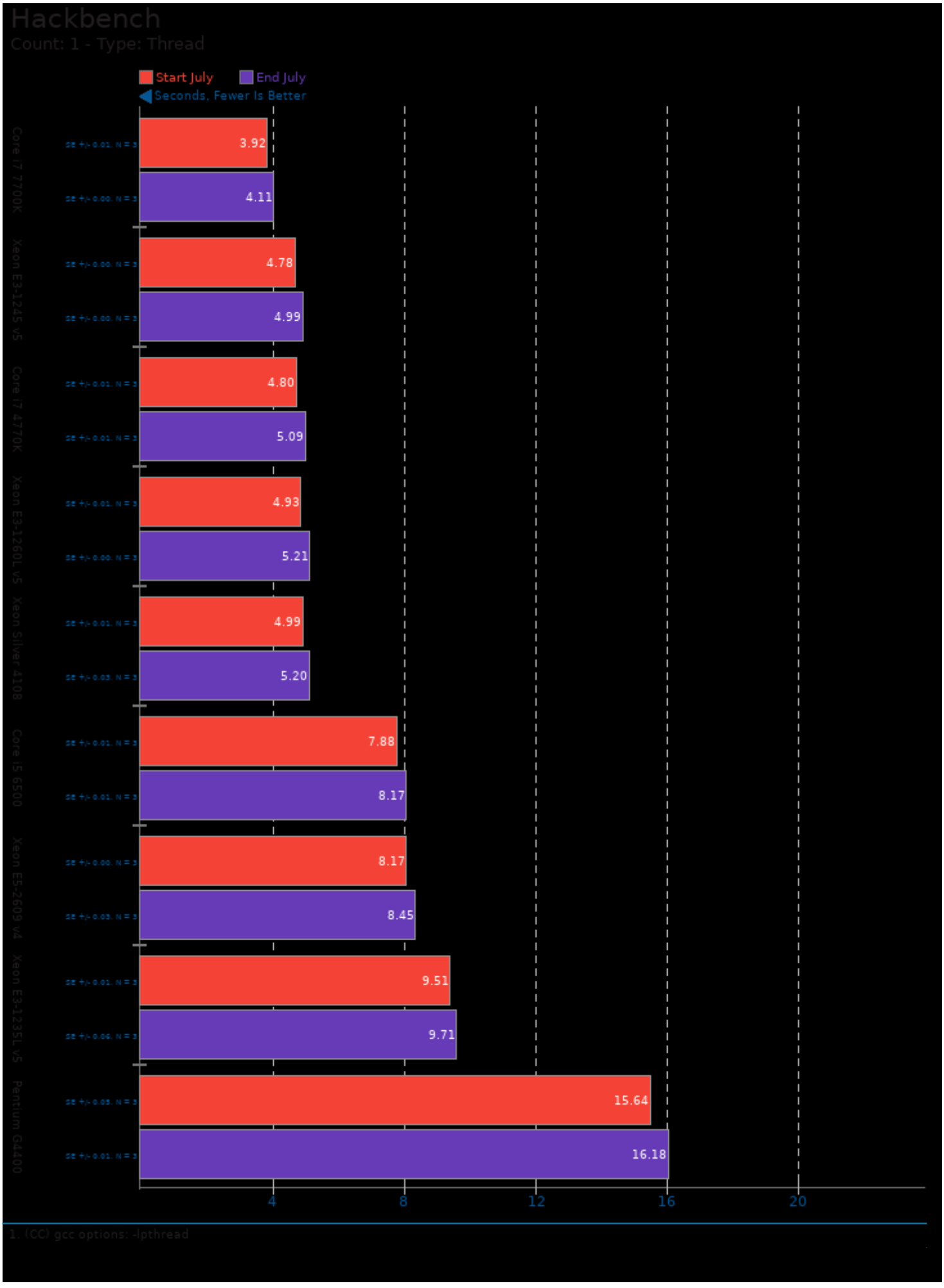
Clear Linux - July 2018 Performance



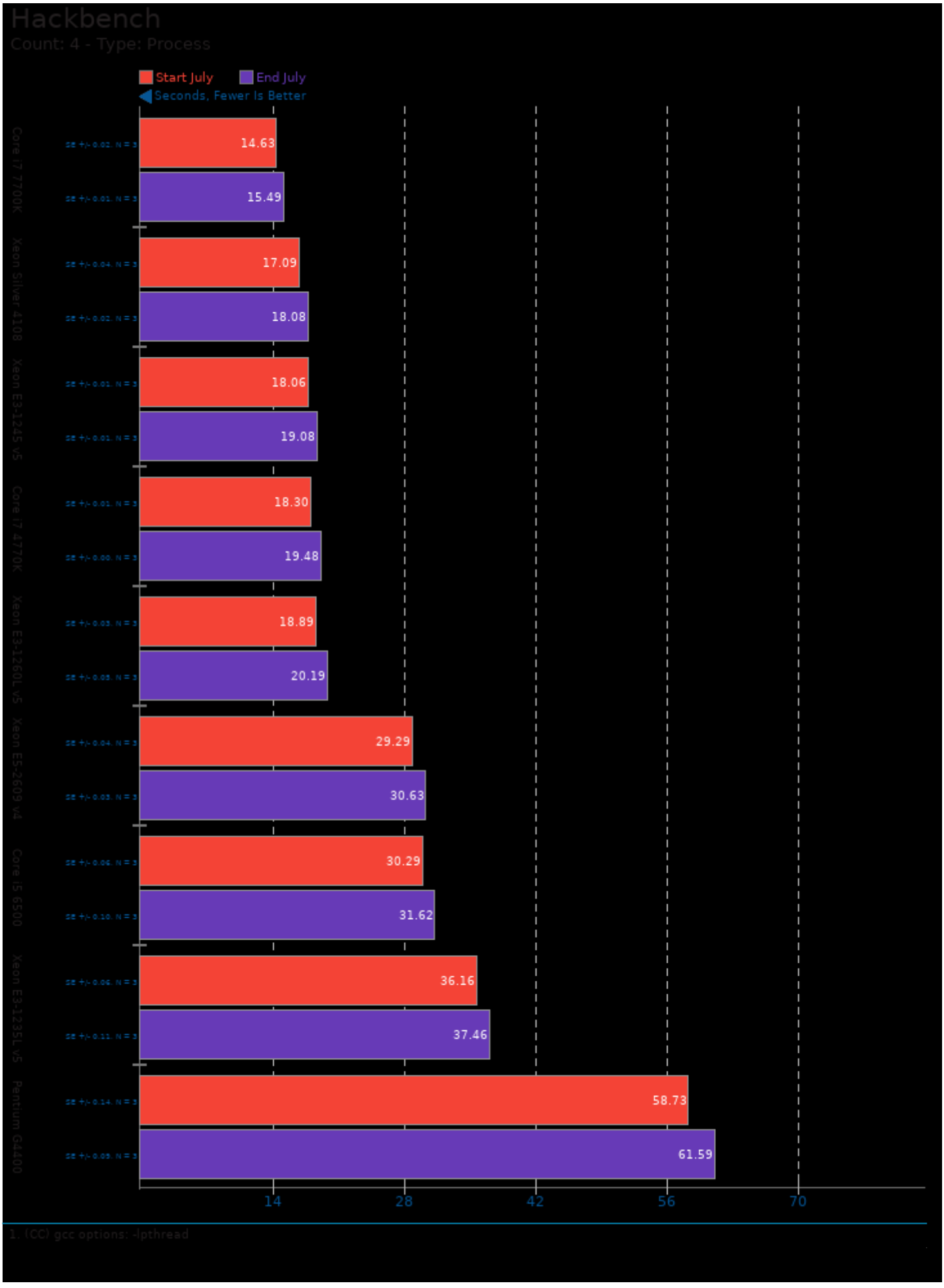
Clear Linux - July 2018 Performance



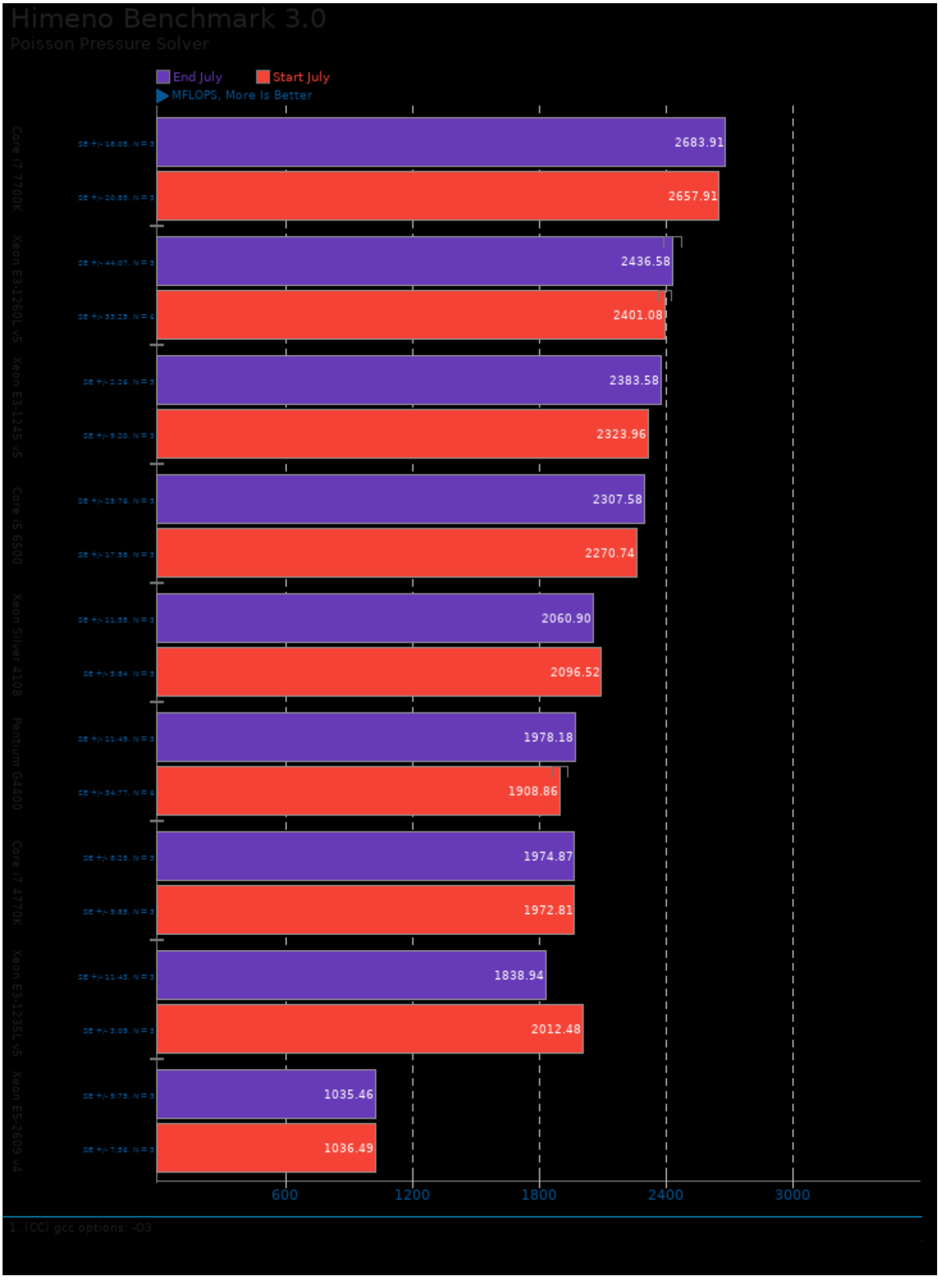
Clear Linux - July 2018 Performance



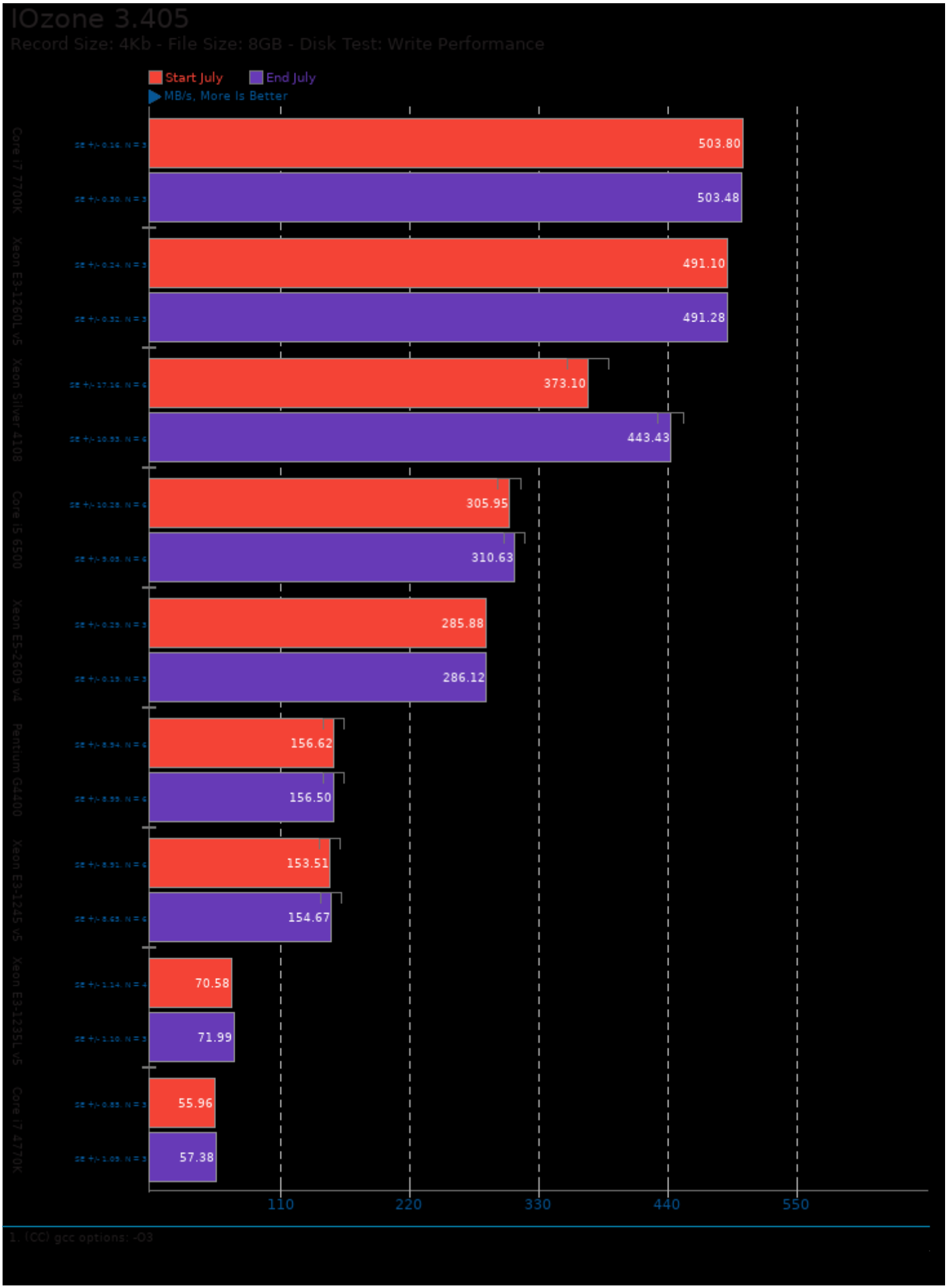
Clear Linux - July 2018 Performance



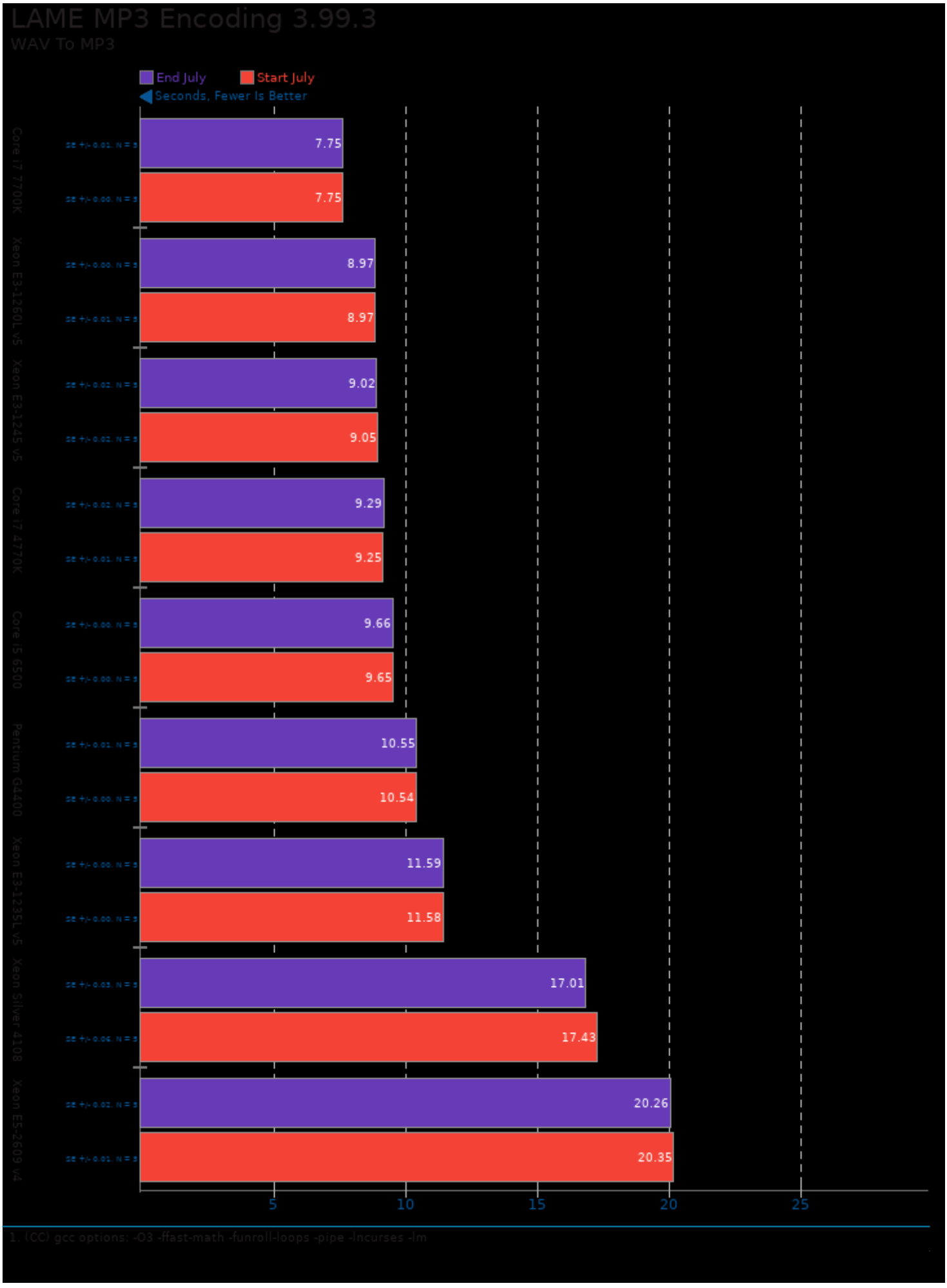
Clear Linux - July 2018 Performance



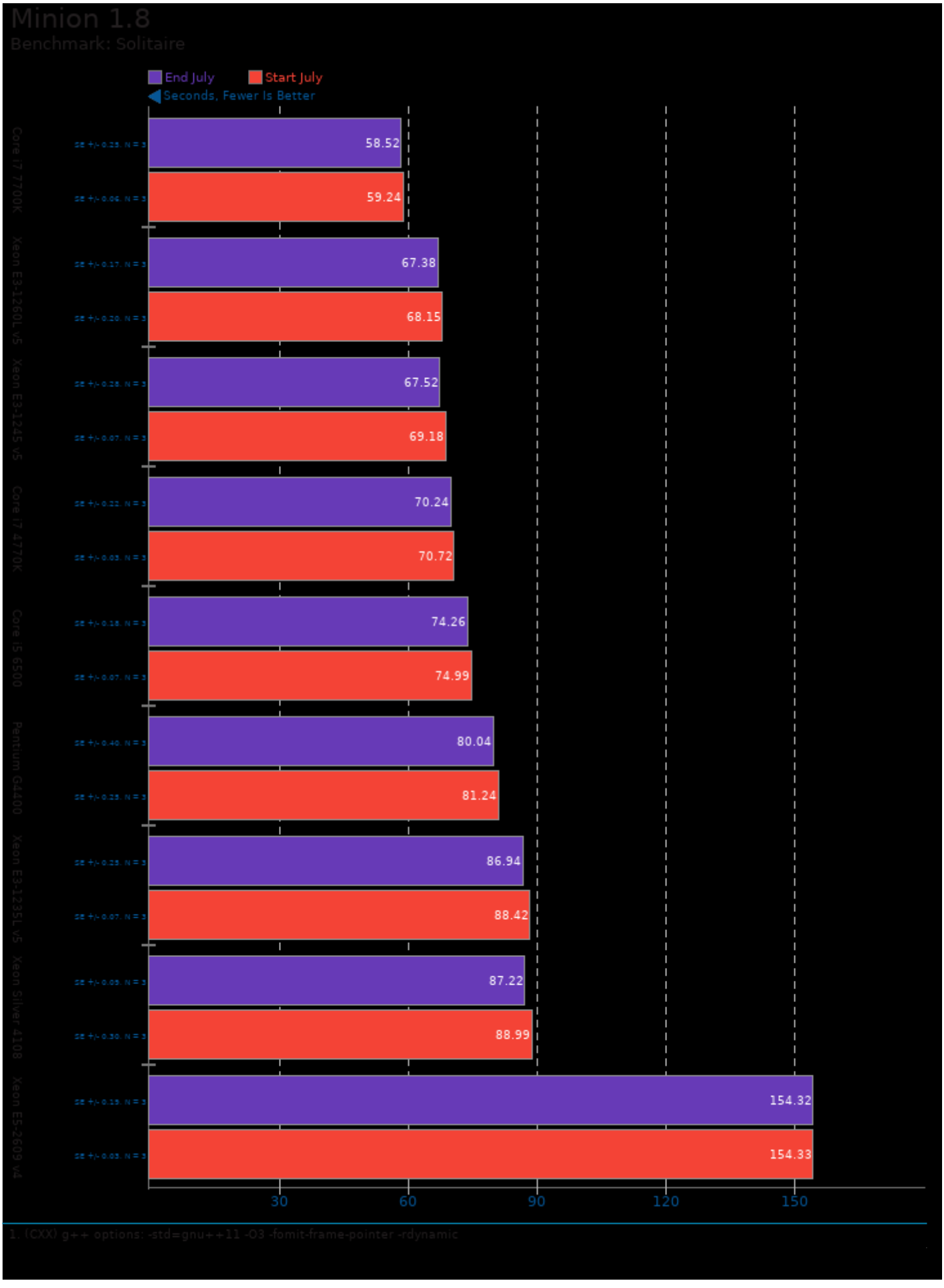
Clear Linux - July 2018 Performance

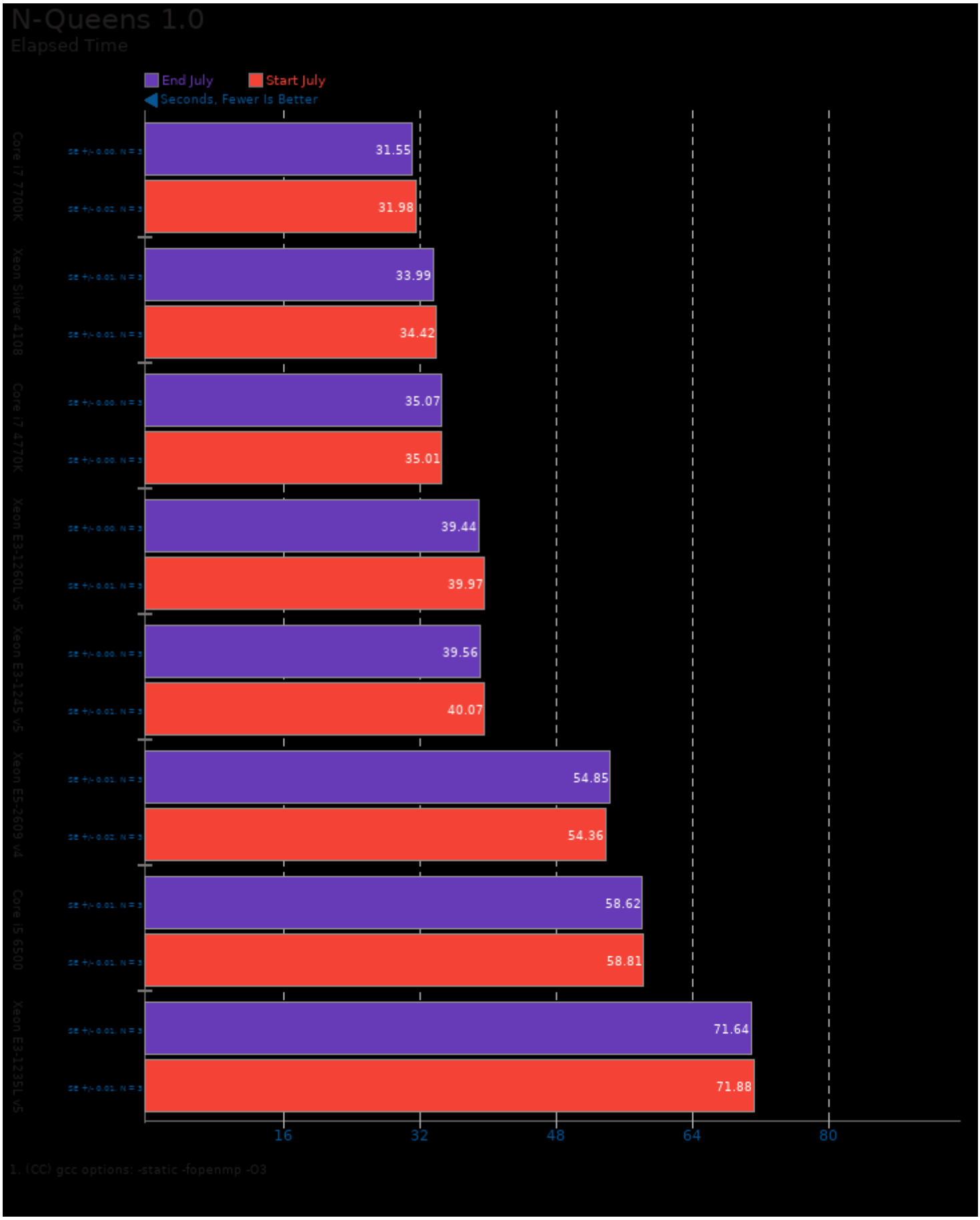


Clear Linux - July 2018 Performance

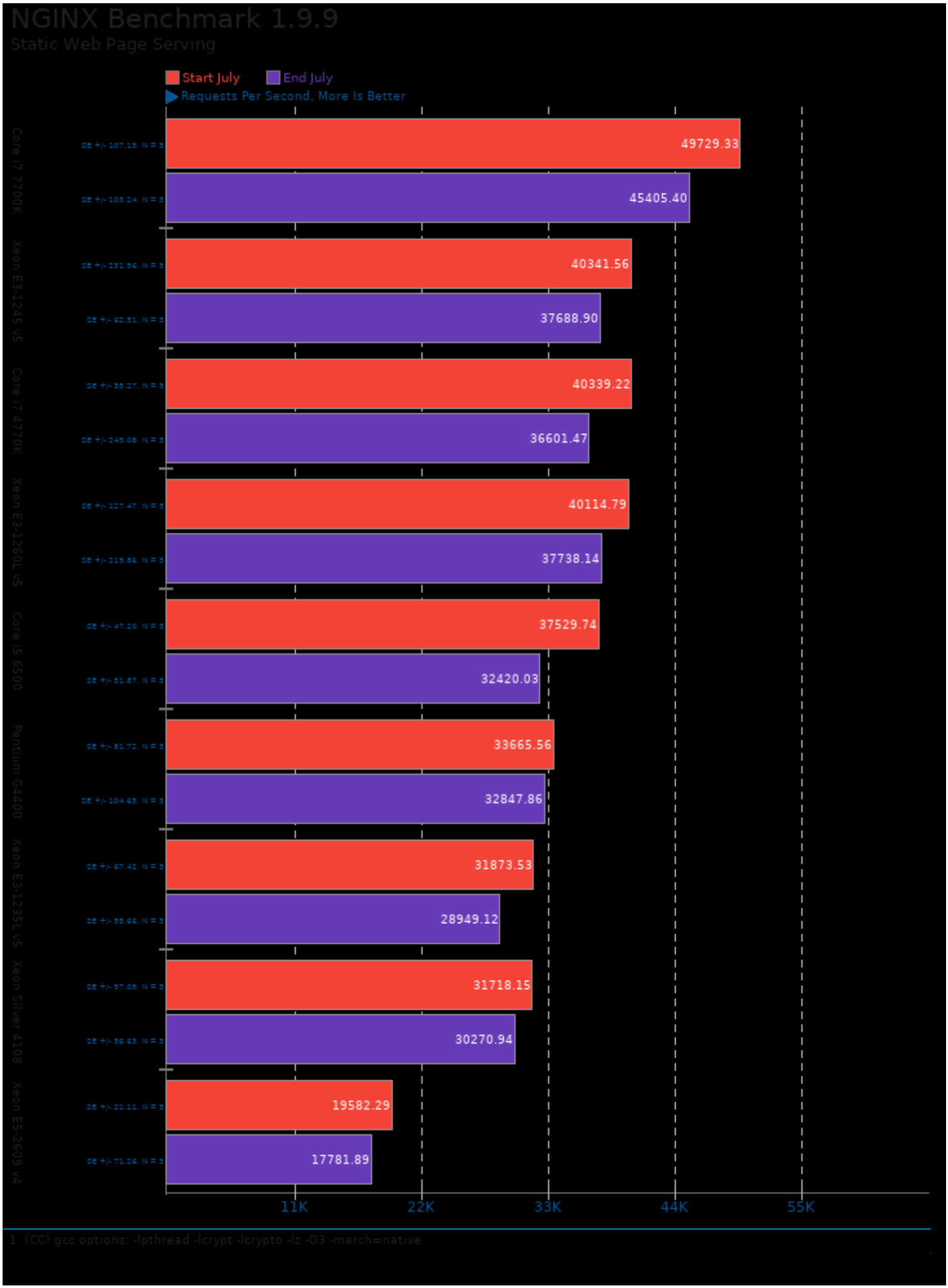


Clear Linux - July 2018 Performance

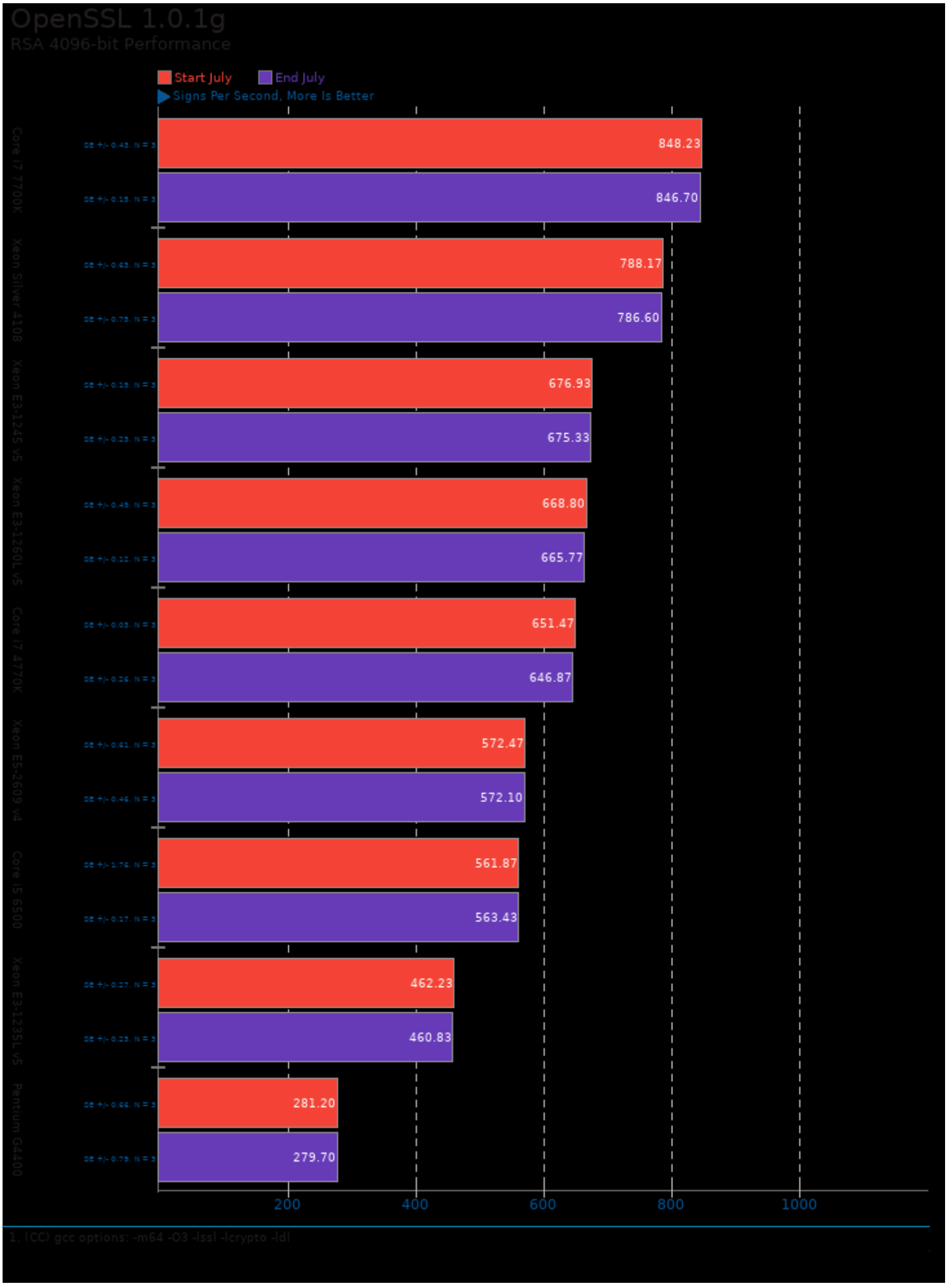



N-Queens 1.0
Elapsed Time
End July
Start July
Seconds, Fewer Is Better
Core i7 7700K
Xeon Silver 4108
Core i7 4770K
Xeon E3-1260L v5
Xeon E3-1245 v5
Xeon E5-2609 v4
Core i5 6500
Xeon E3-1235L v5
31.55
31.98
33.99
34.42
35.07
35.01
39.44
39.97
39.56
40.07
54.85
54.36
58.62
58.81
71.64
71.88
16
32
48
64
80
1. (CC) gcc options: -static -fopenmp -O3

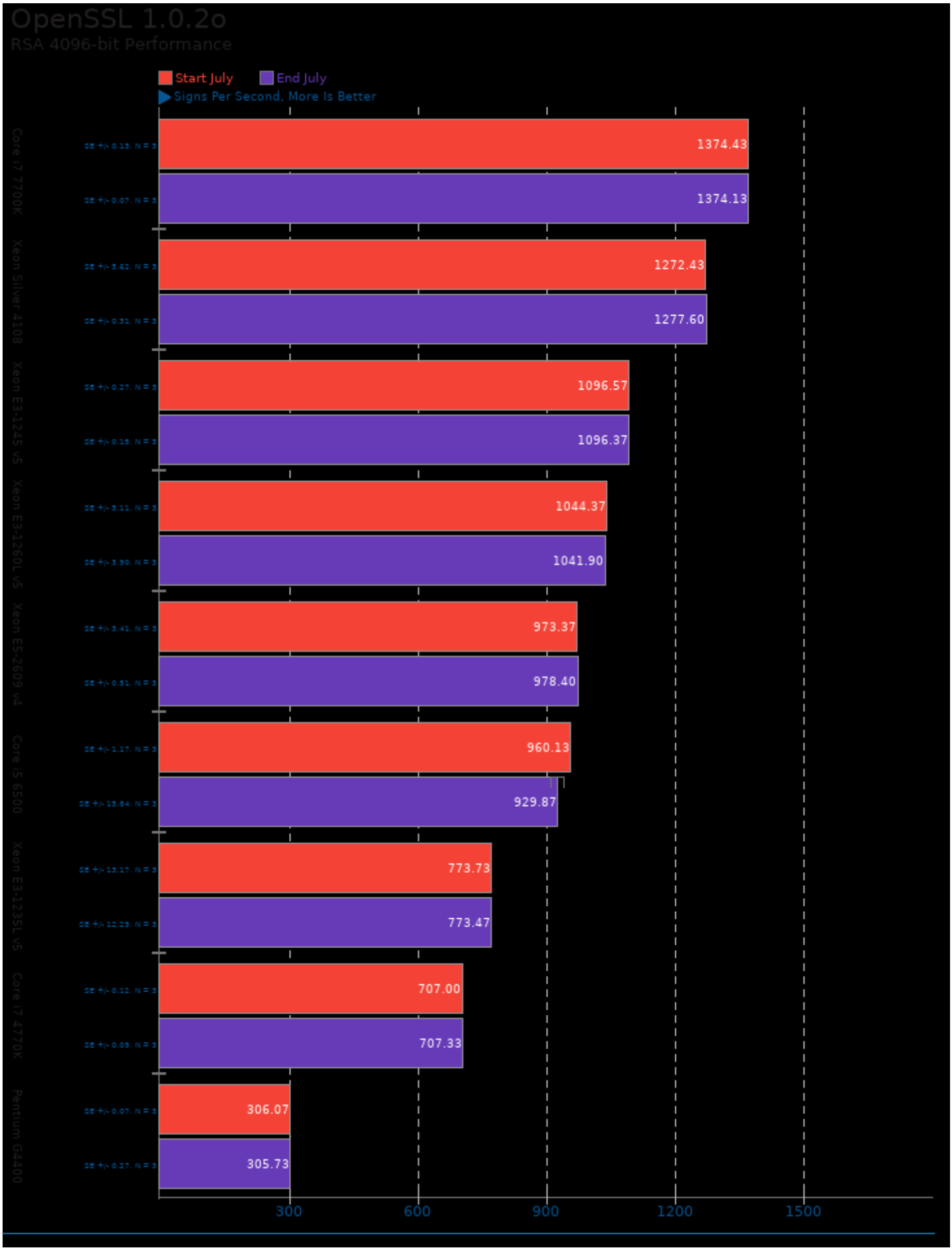
Clear Linux - July 2018 Performance



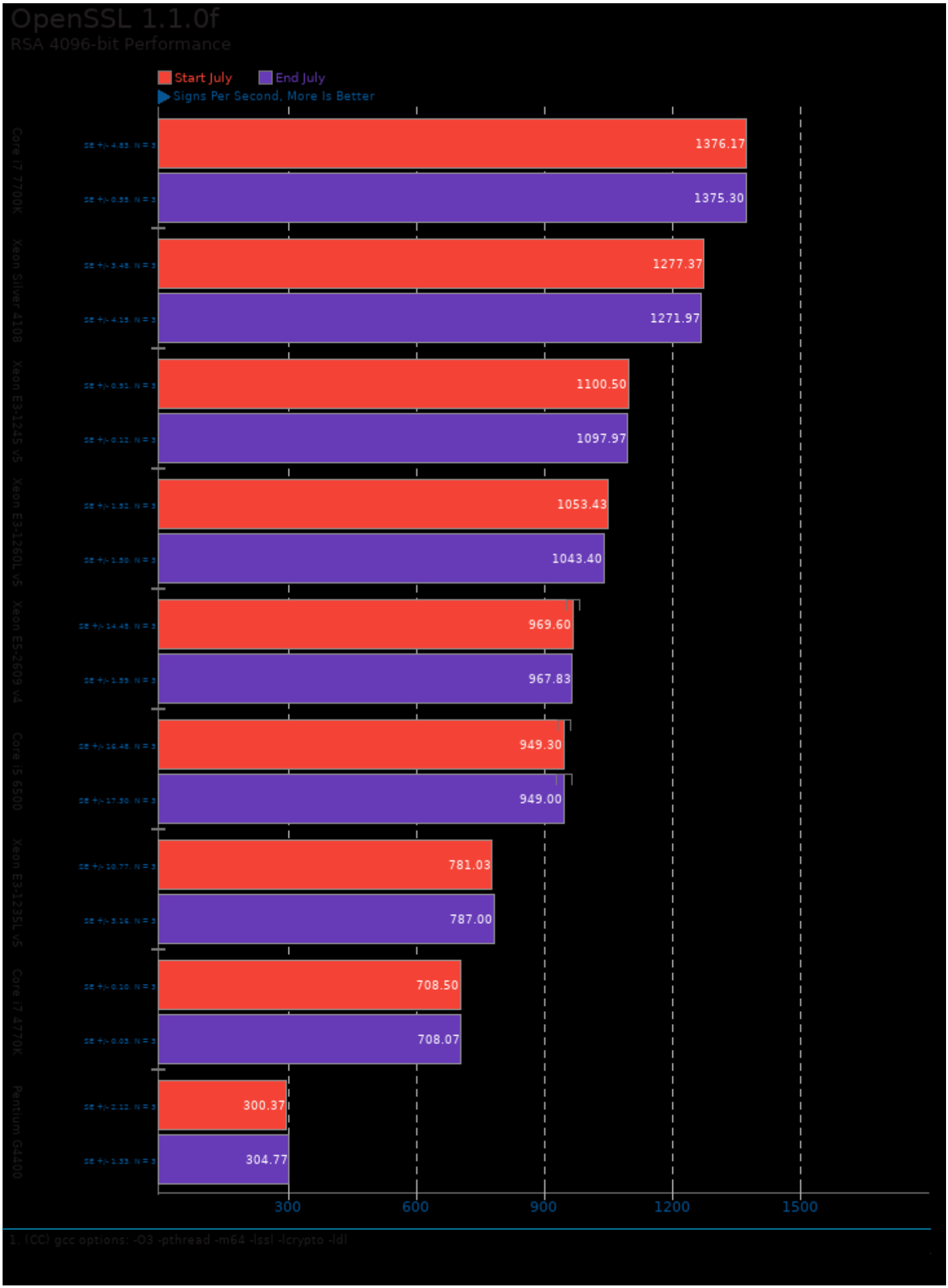
Clear Linux - July 2018 Performance



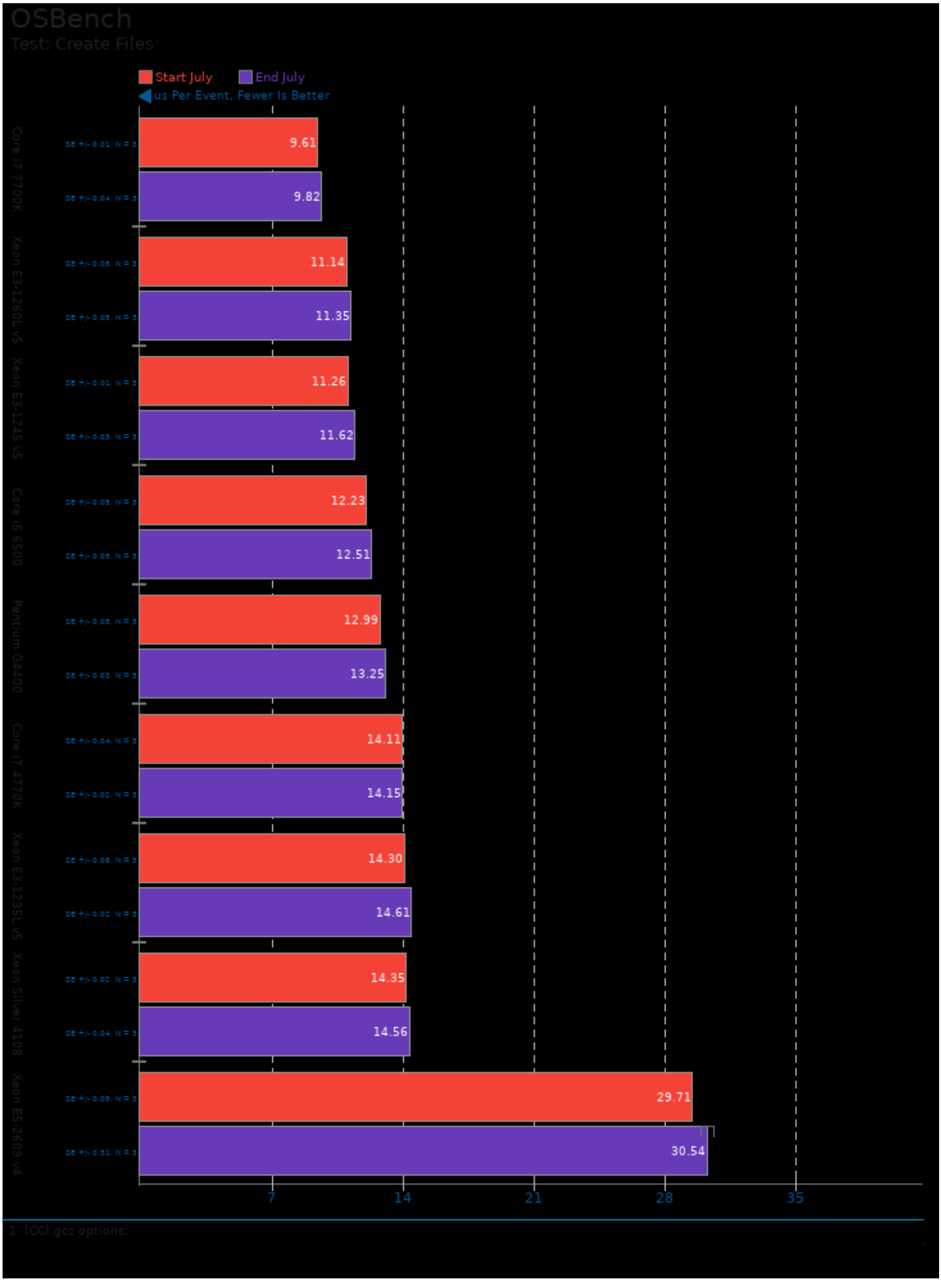
Clear Linux - July 2018 Performance



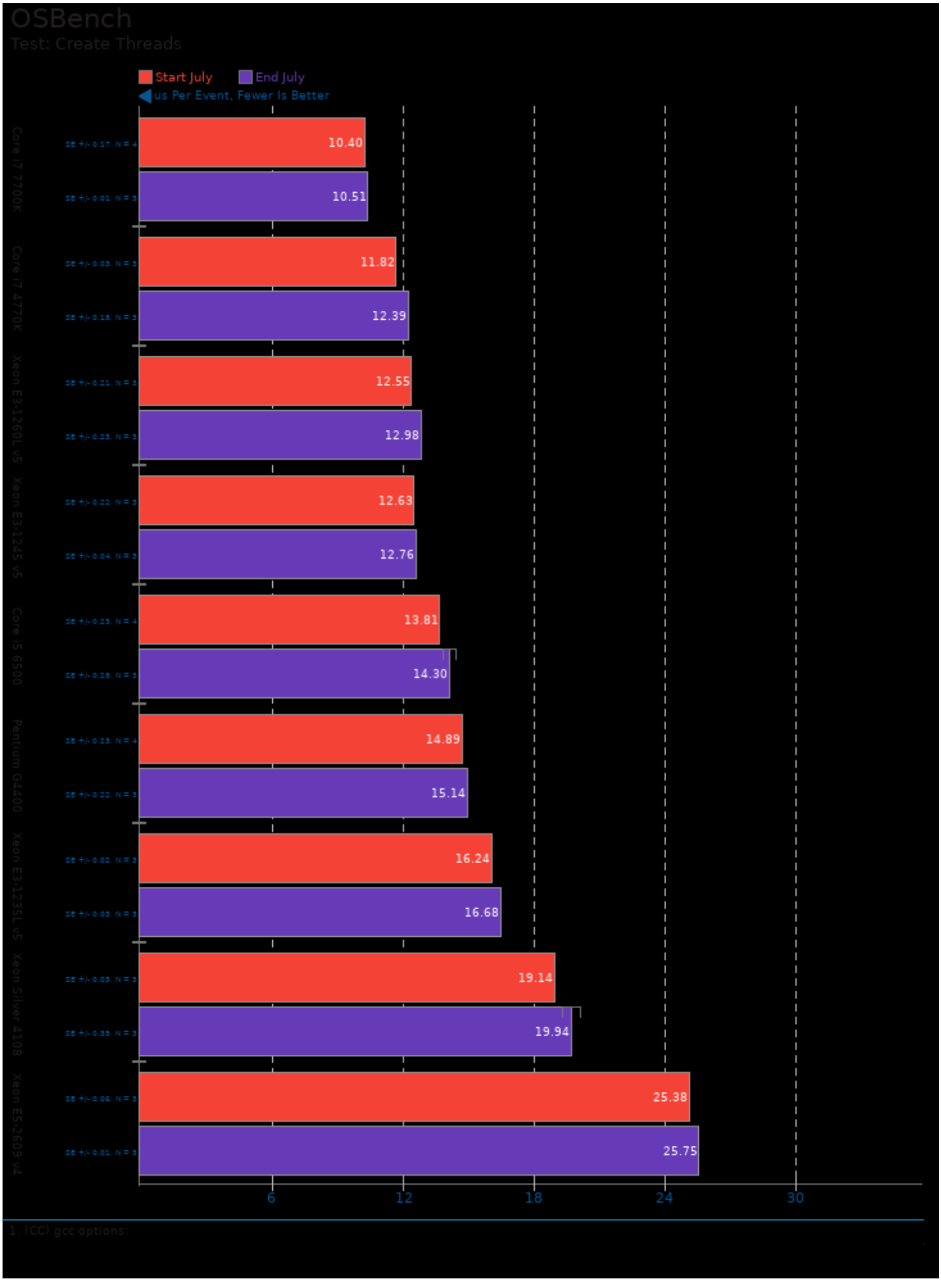
Clear Linux - July 2018 Performance



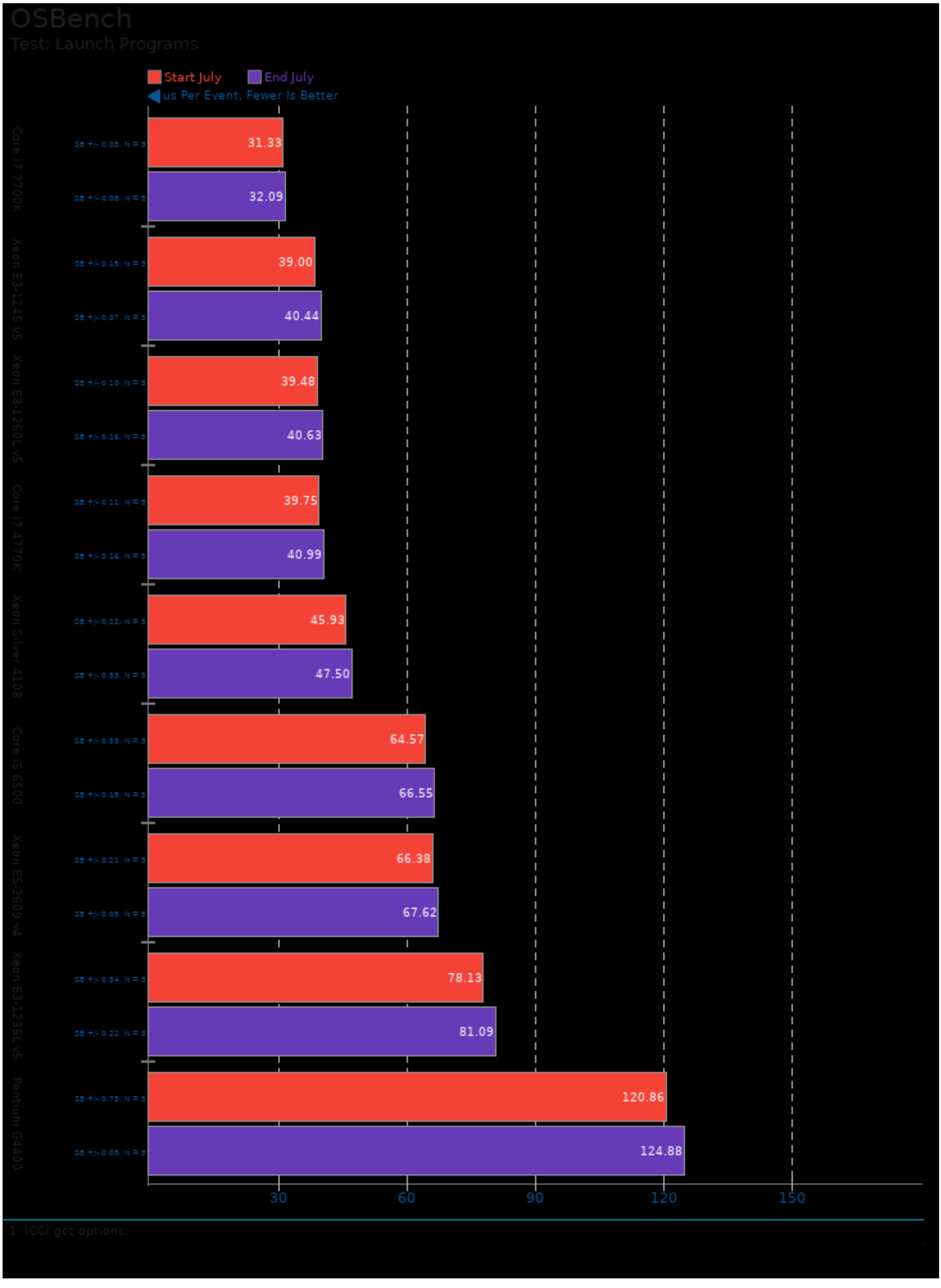
Clear Linux - July 2018 Performance



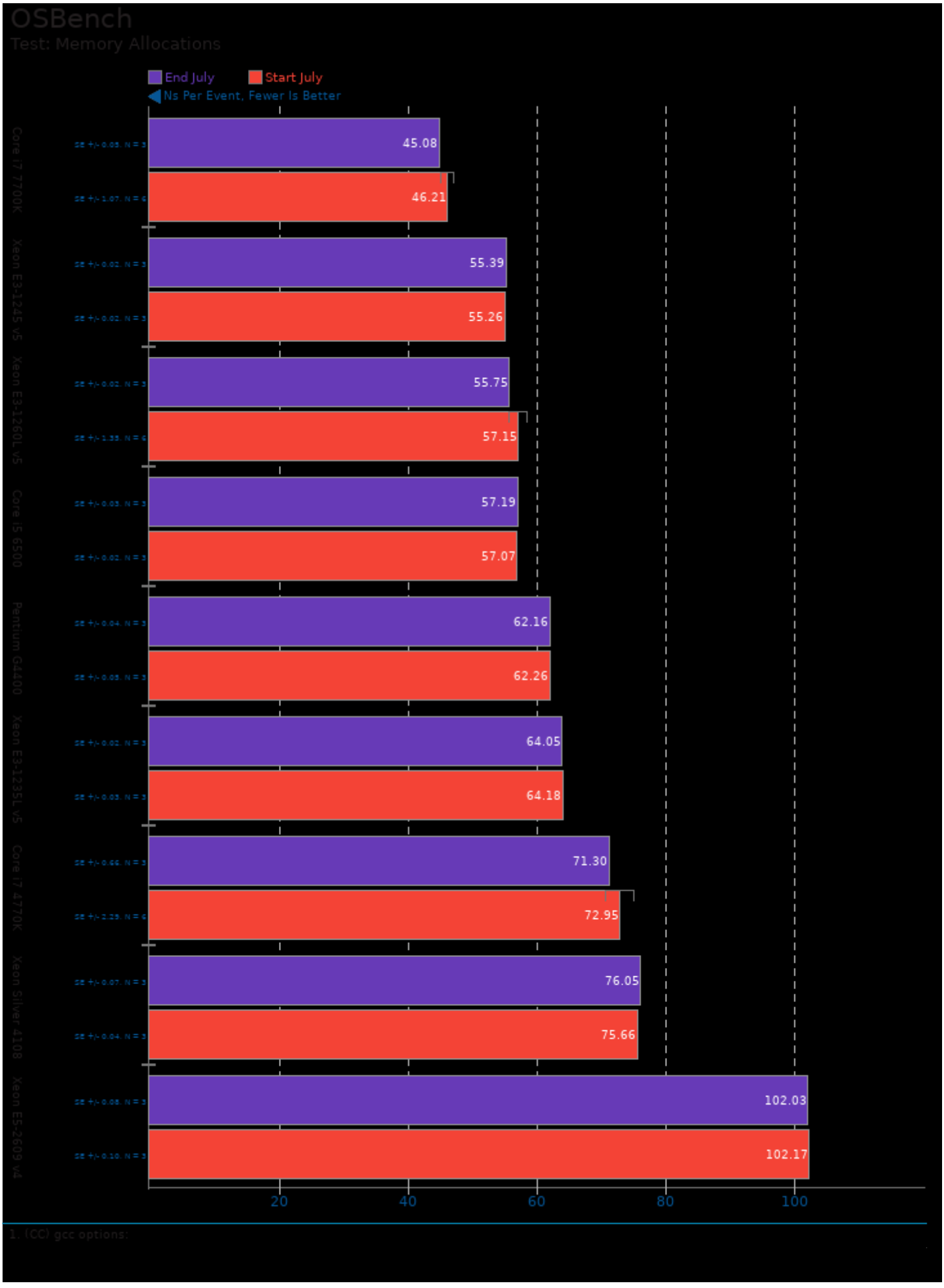
Clear Linux - July 2018 Performance



Clear Linux - July 2018 Performance

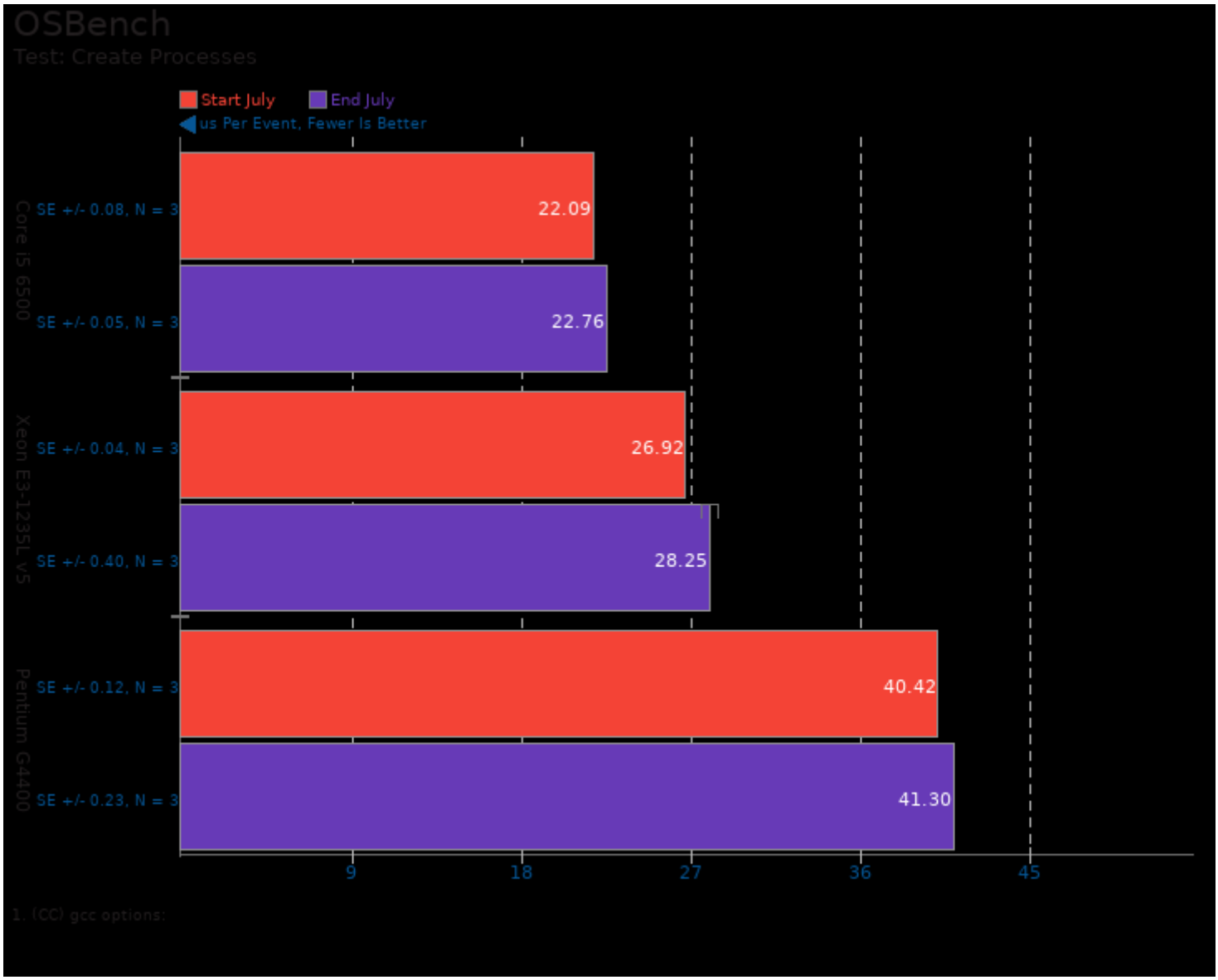


Clear Linux - July 2018 Performance

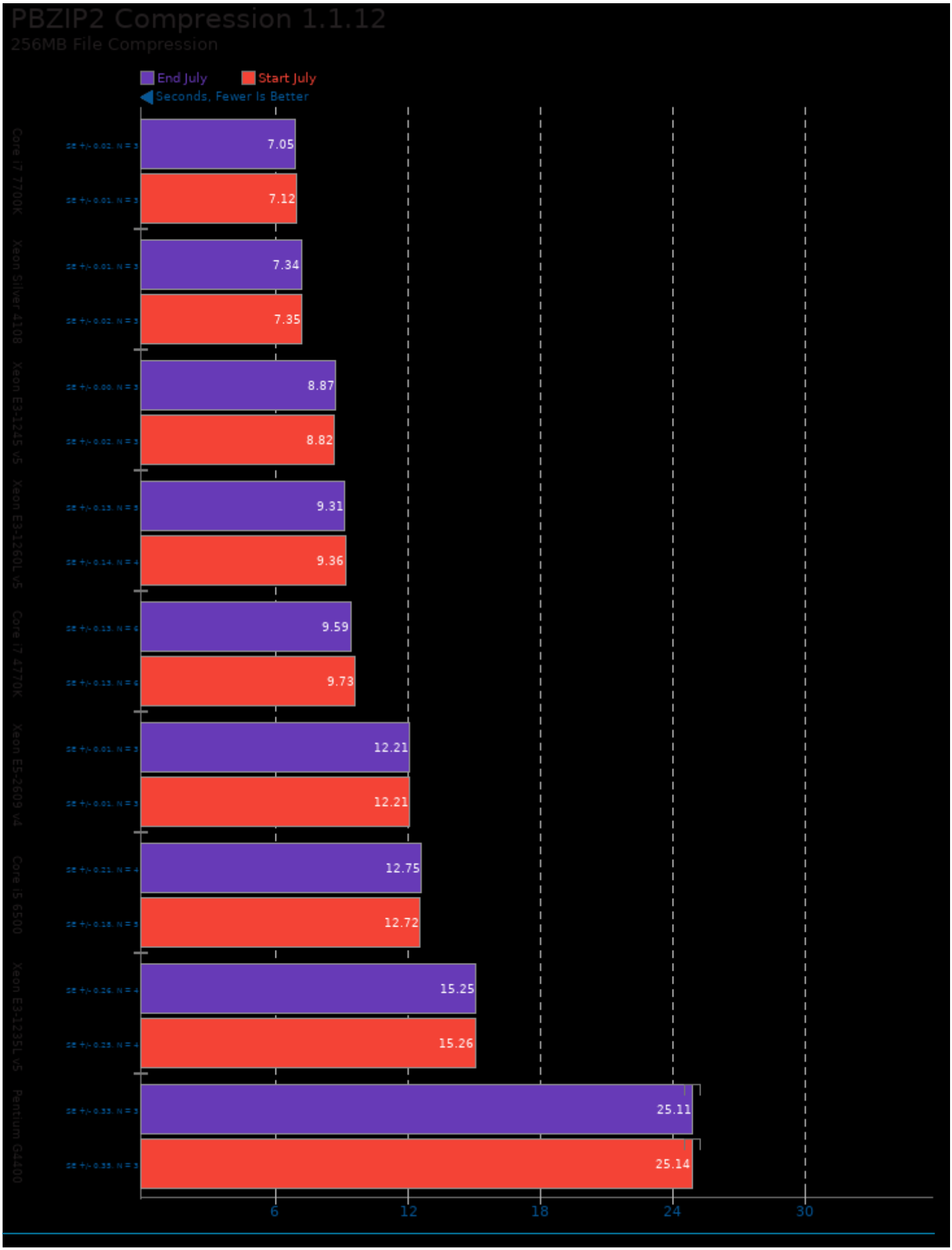


1. (CC) gcc options:

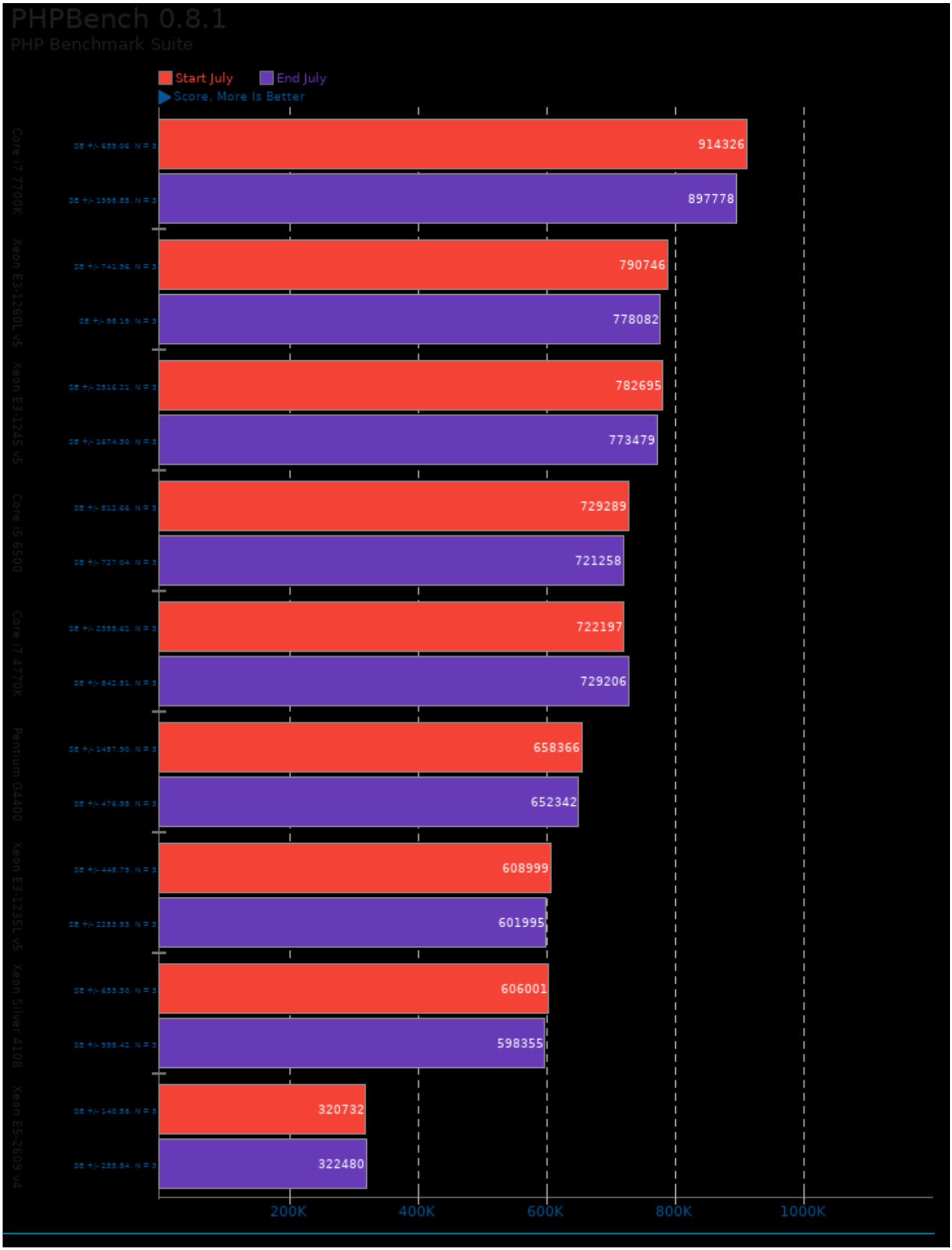
Clear Linux - July 2018 Performance



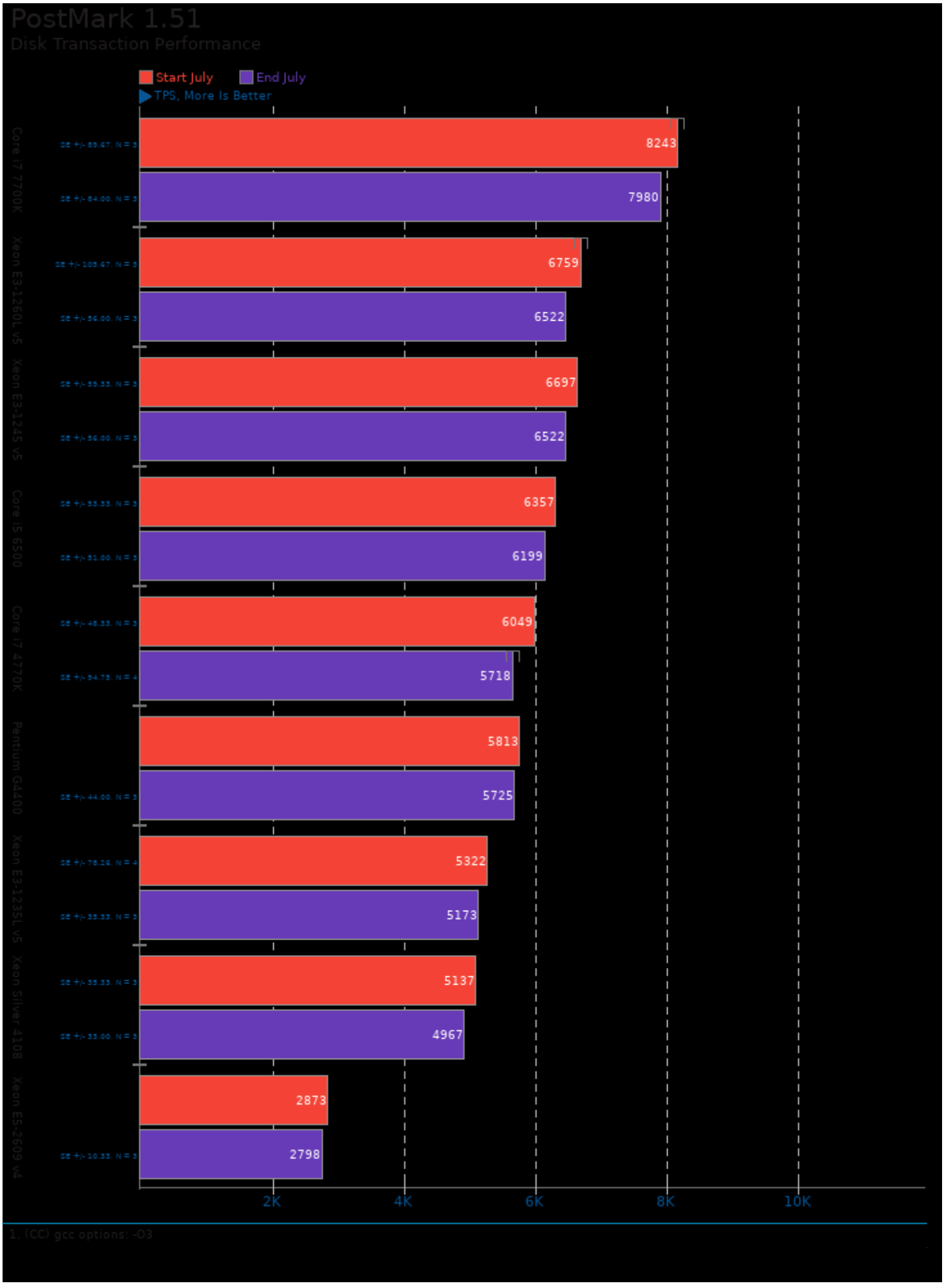
Clear Linux - July 2018 Performance



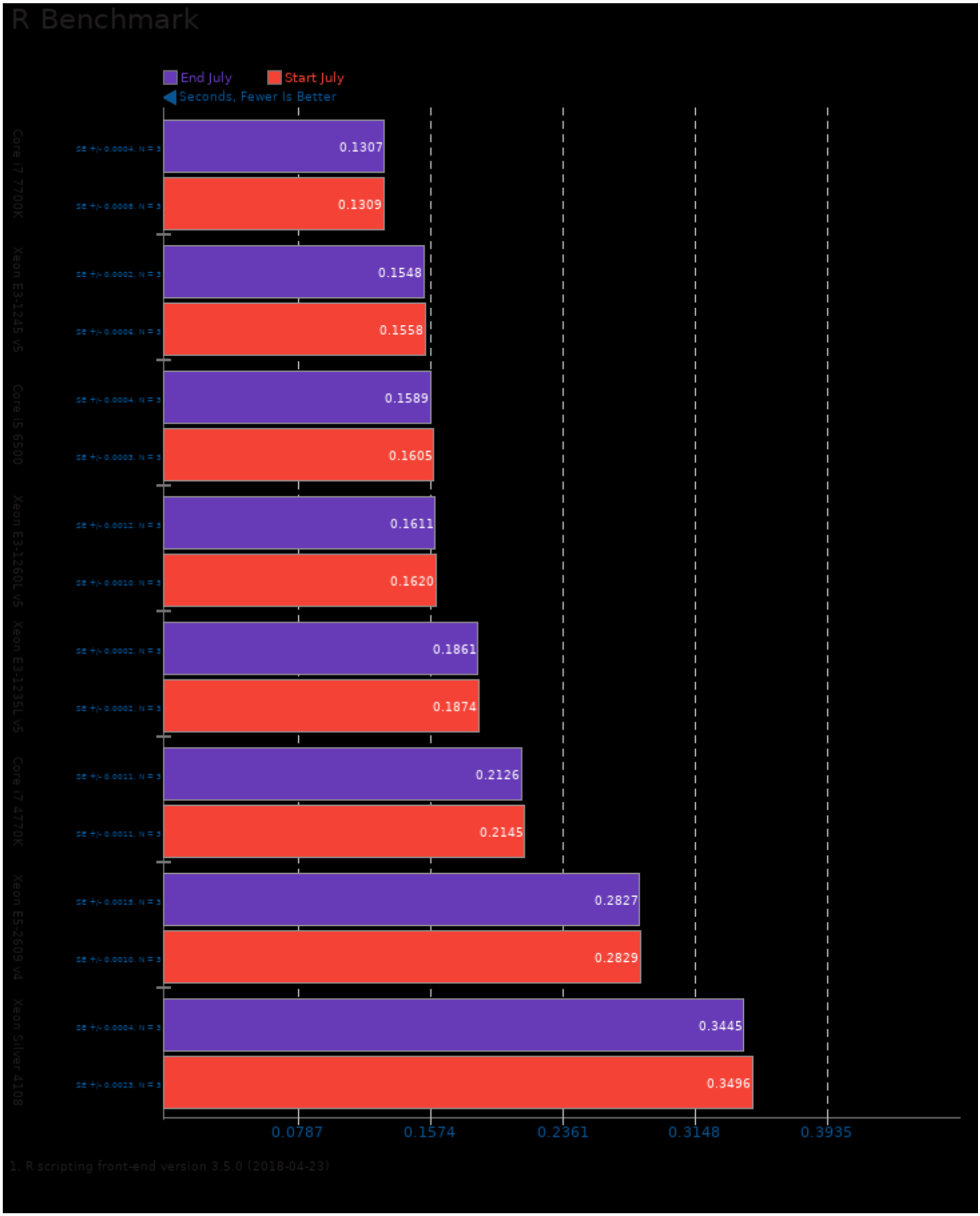
Clear Linux - July 2018 Performance



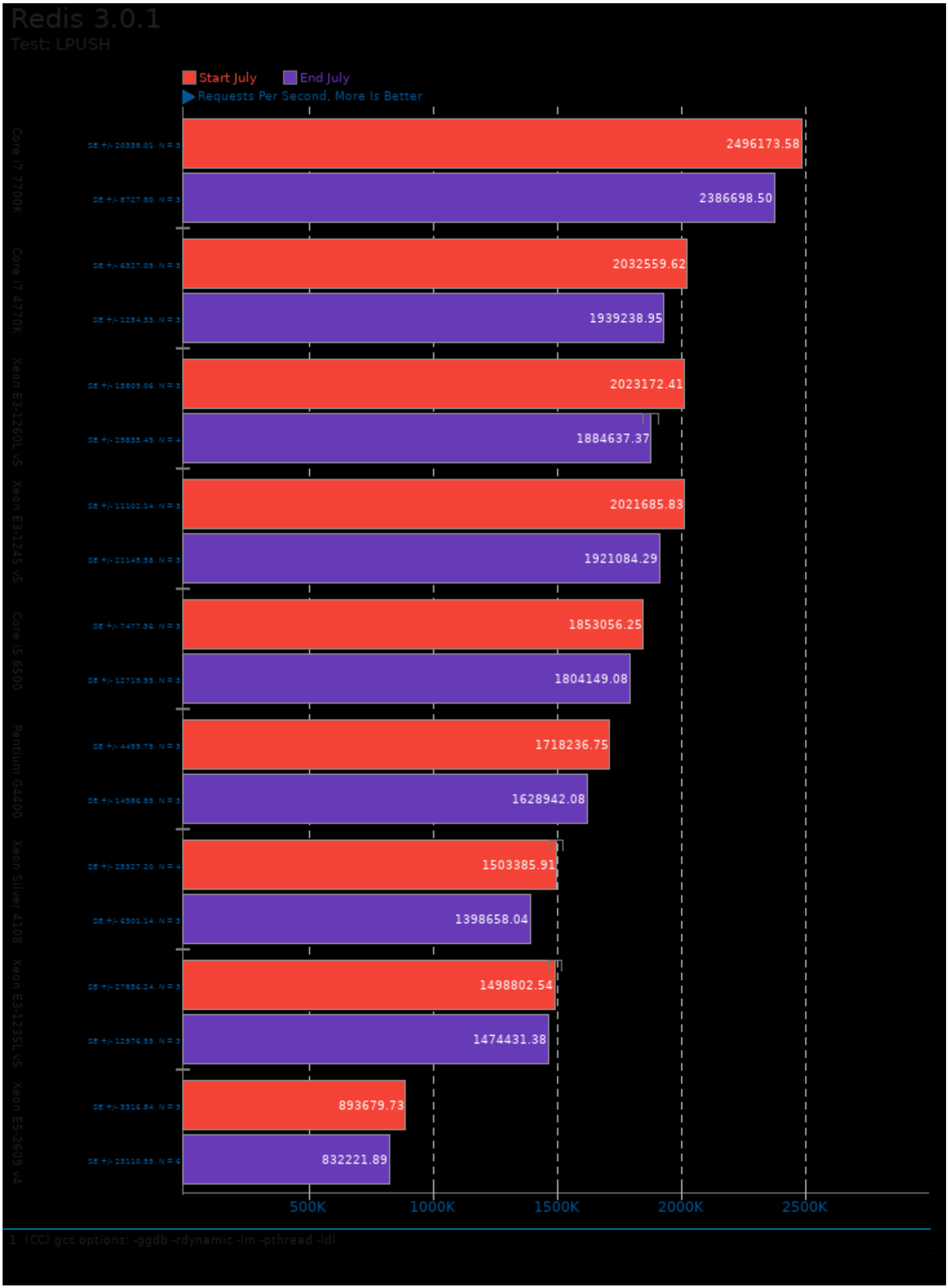
Clear Linux - July 2018 Performance



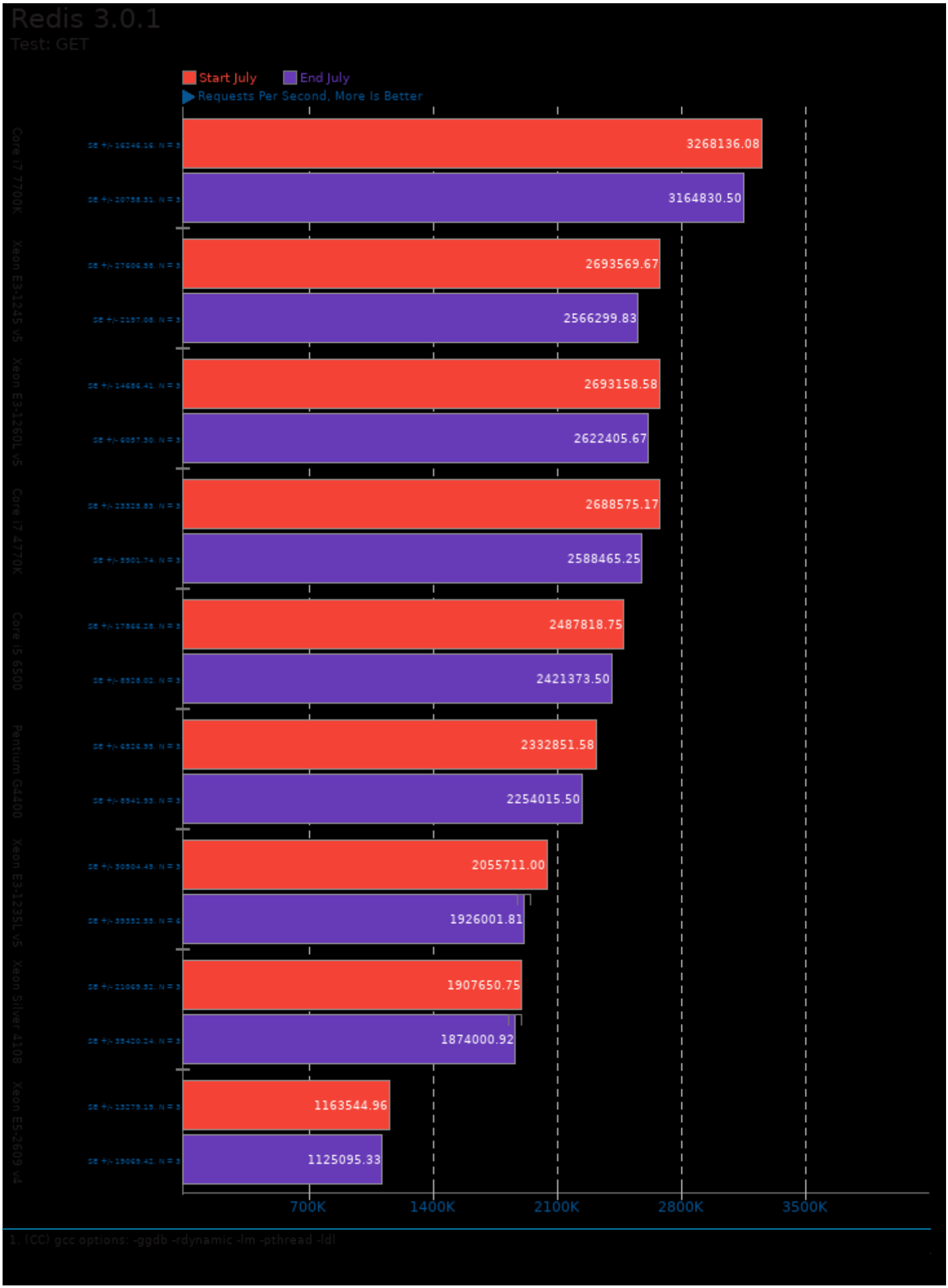
Clear Linux - July 2018 Performance



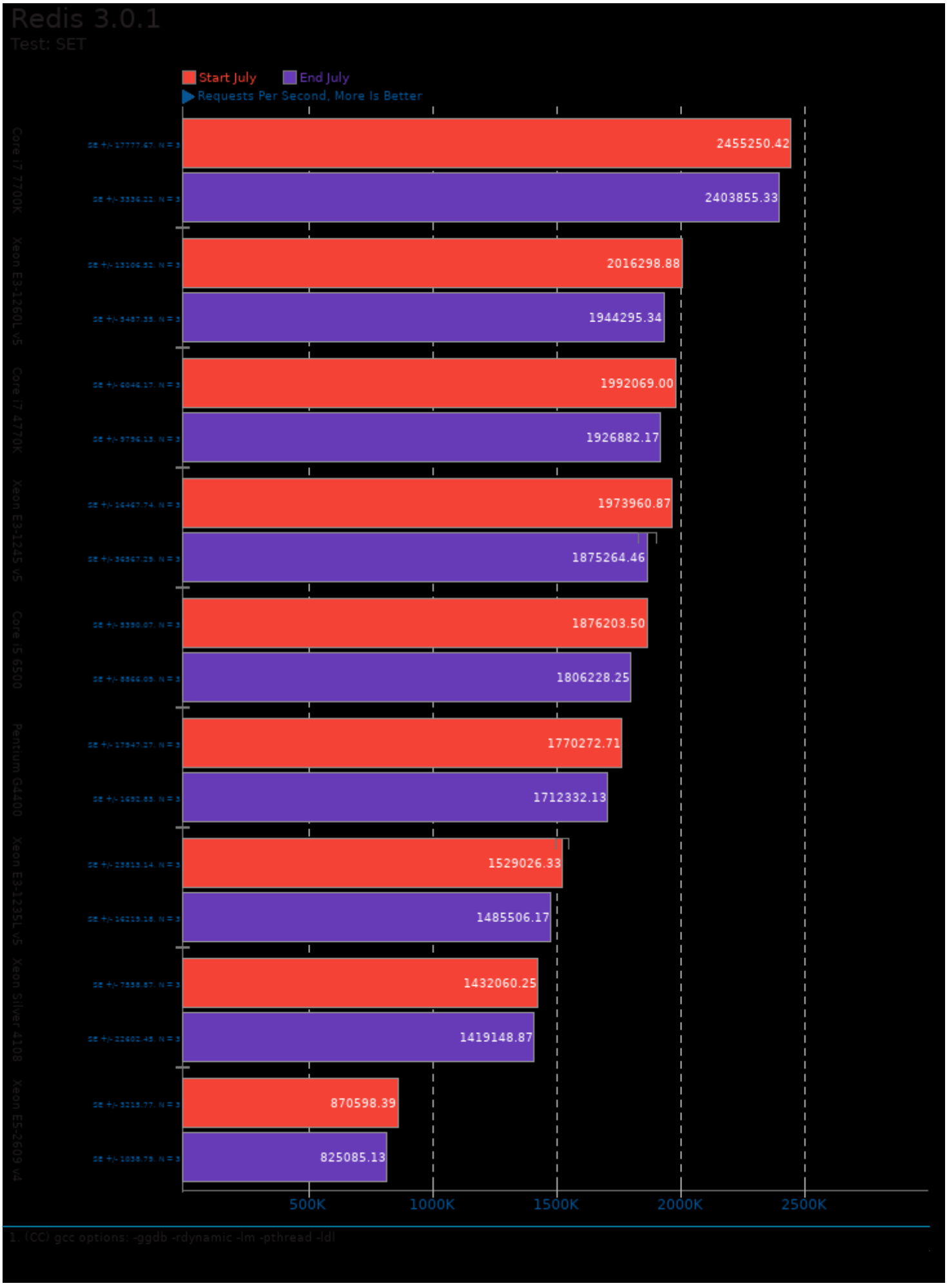
Clear Linux - July 2018 Performance



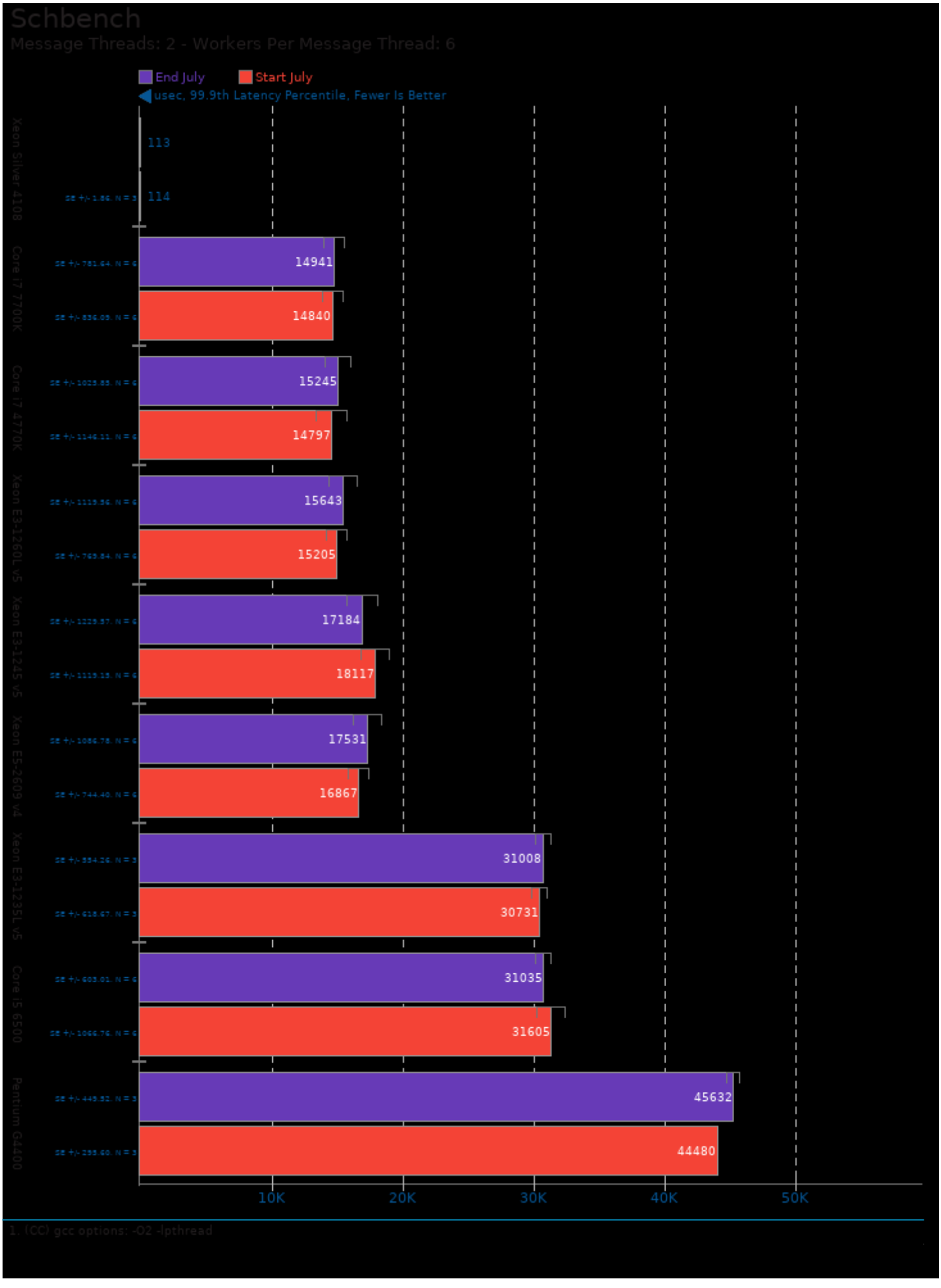
Clear Linux - July 2018 Performance



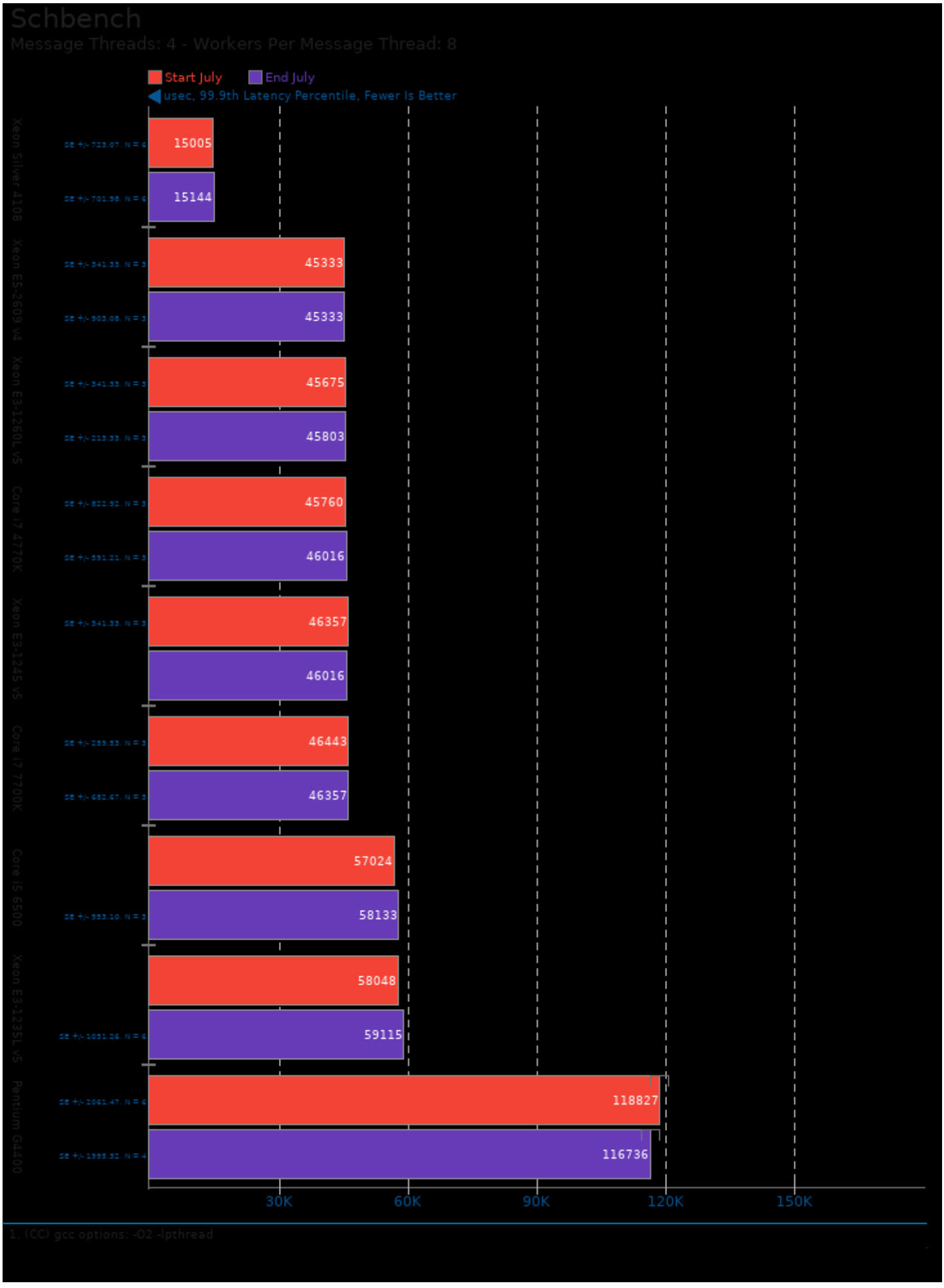
Clear Linux - July 2018 Performance



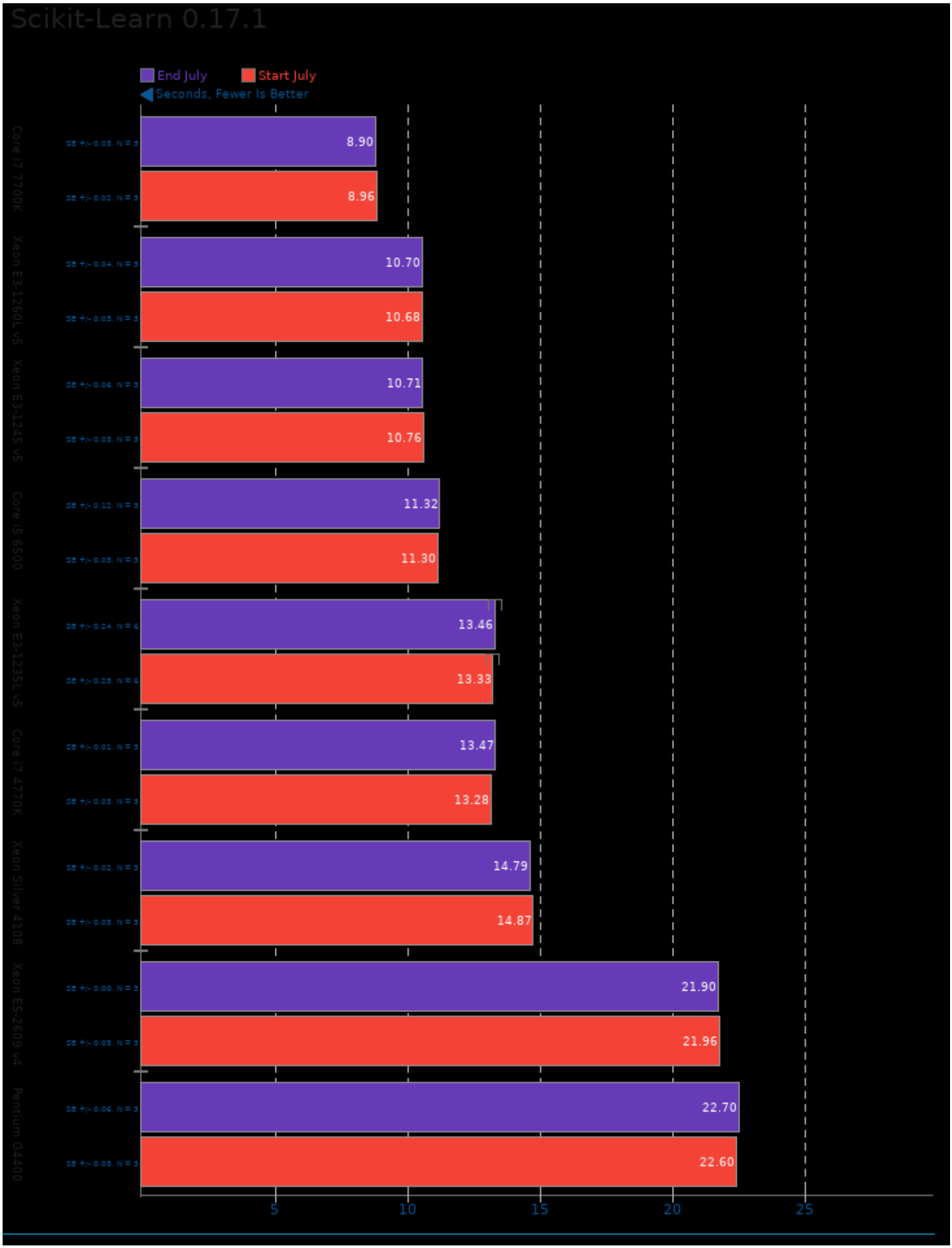
Clear Linux - July 2018 Performance



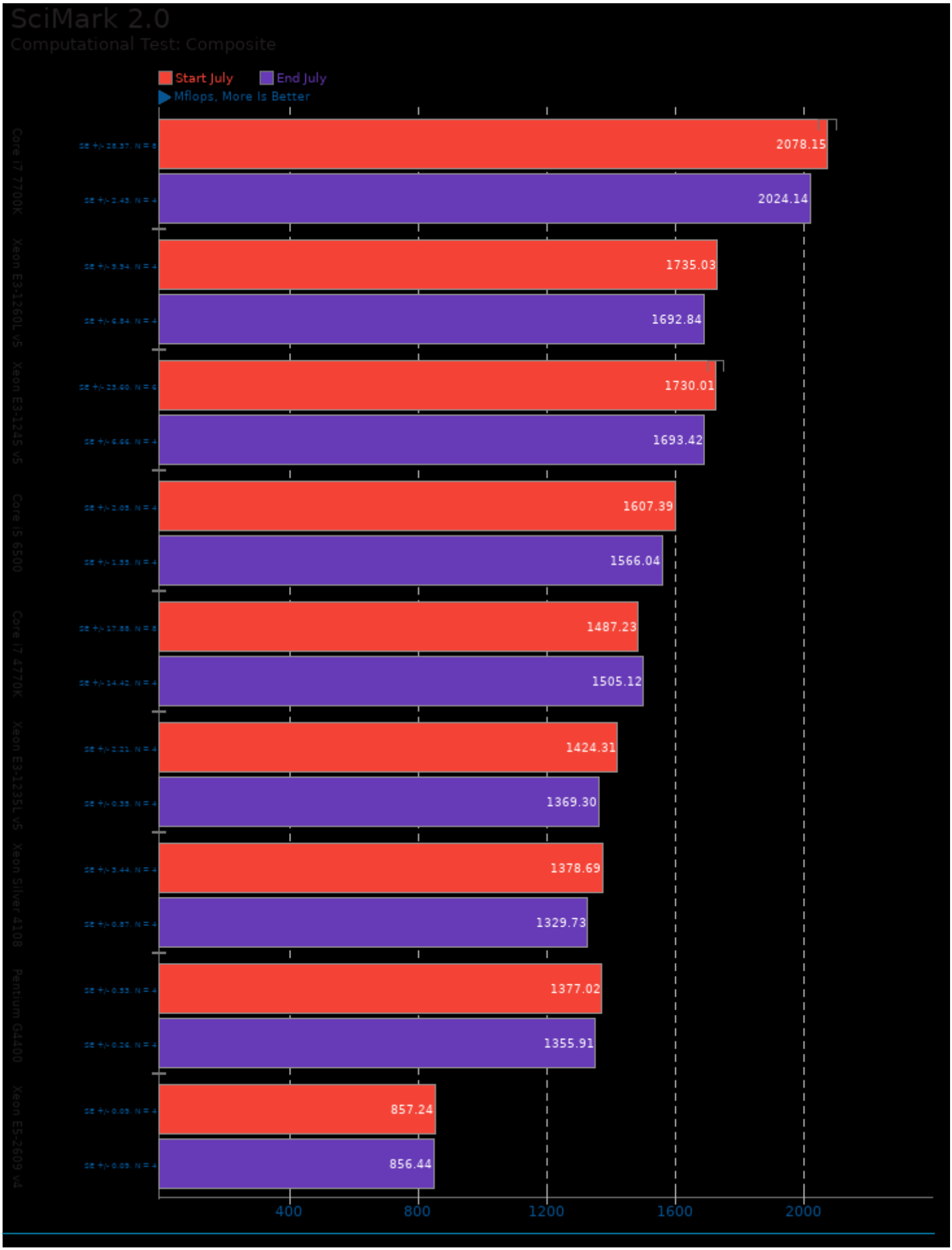
Clear Linux - July 2018 Performance



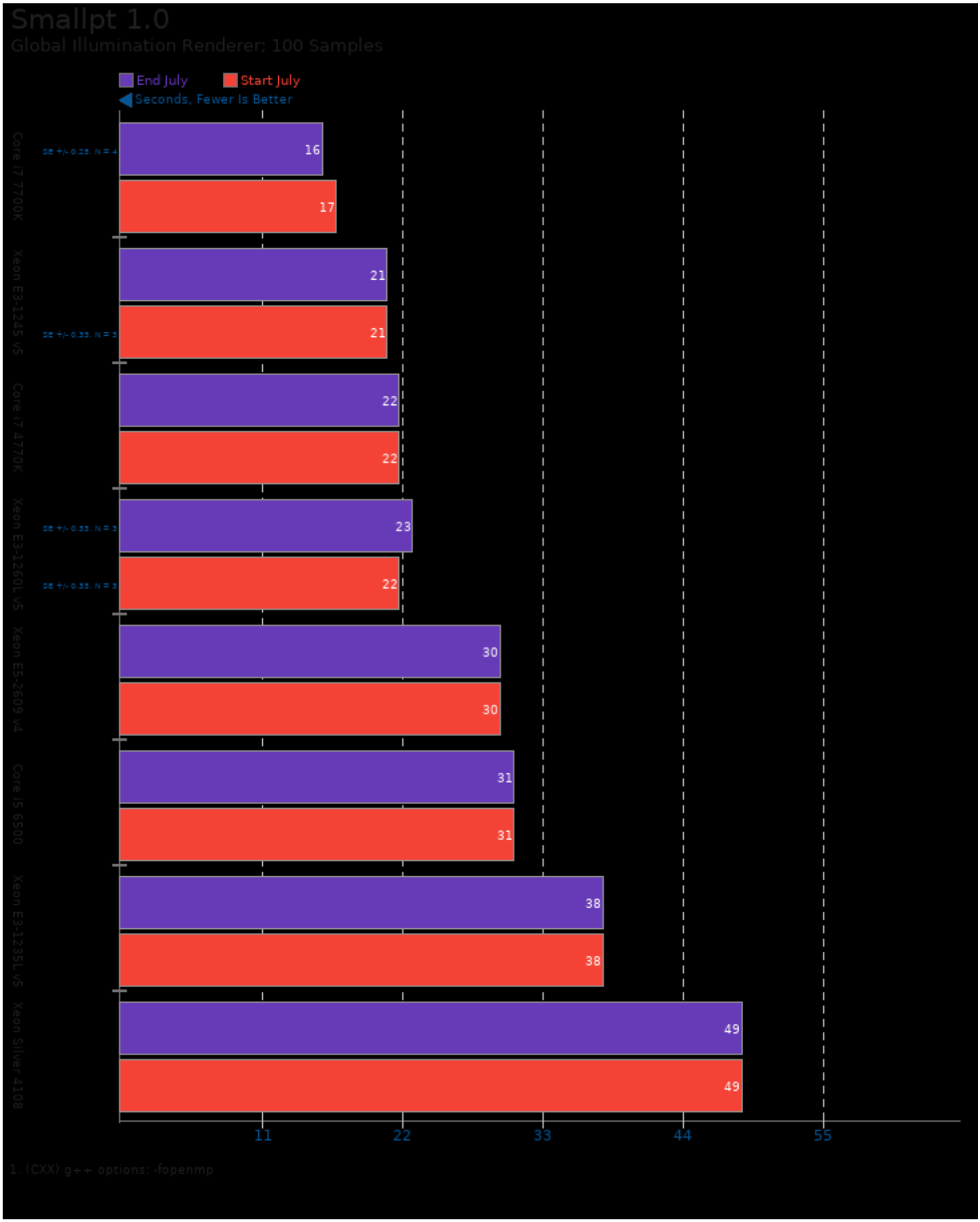
Clear Linux - July 2018 Performance



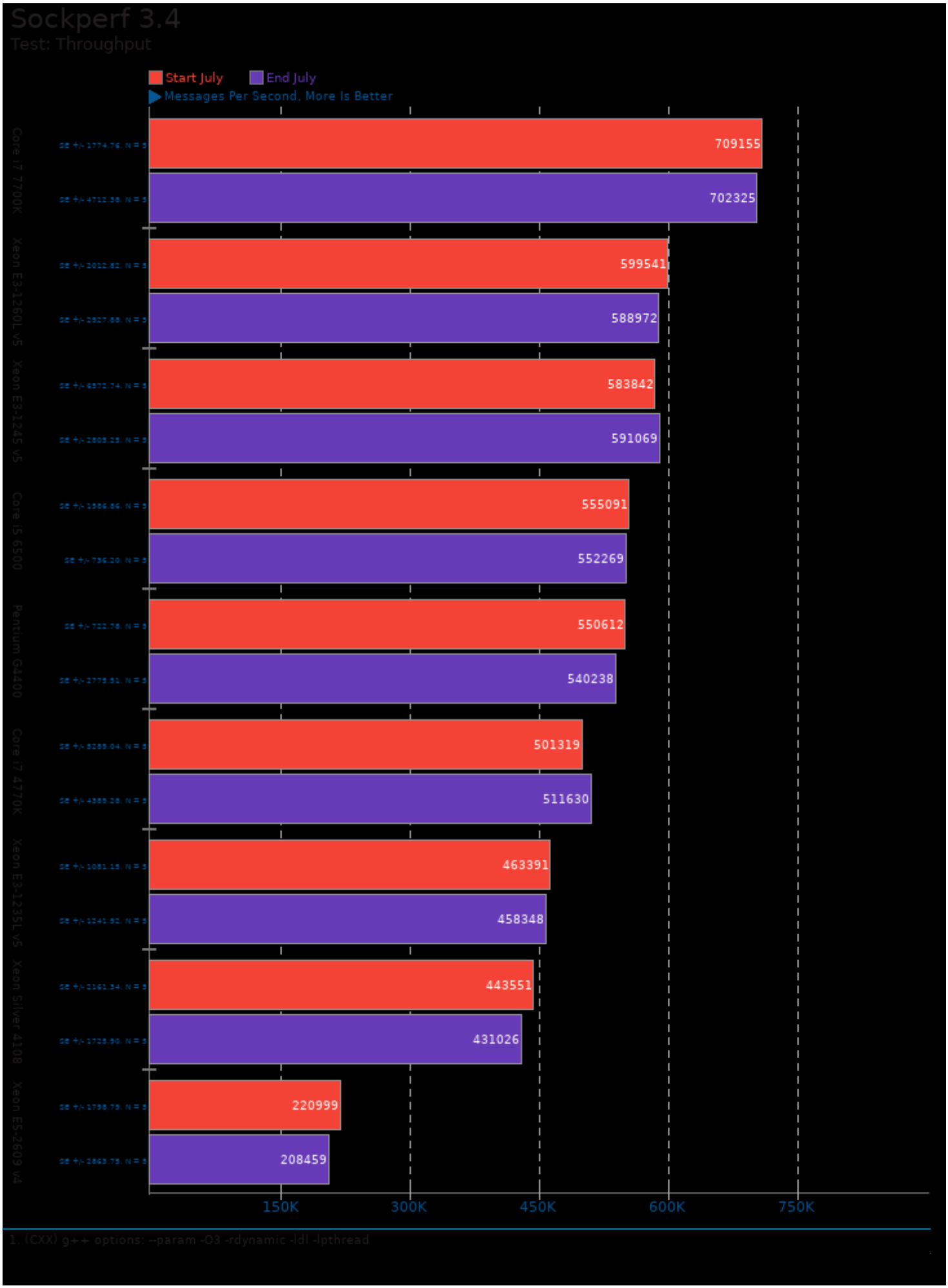
Clear Linux - July 2018 Performance



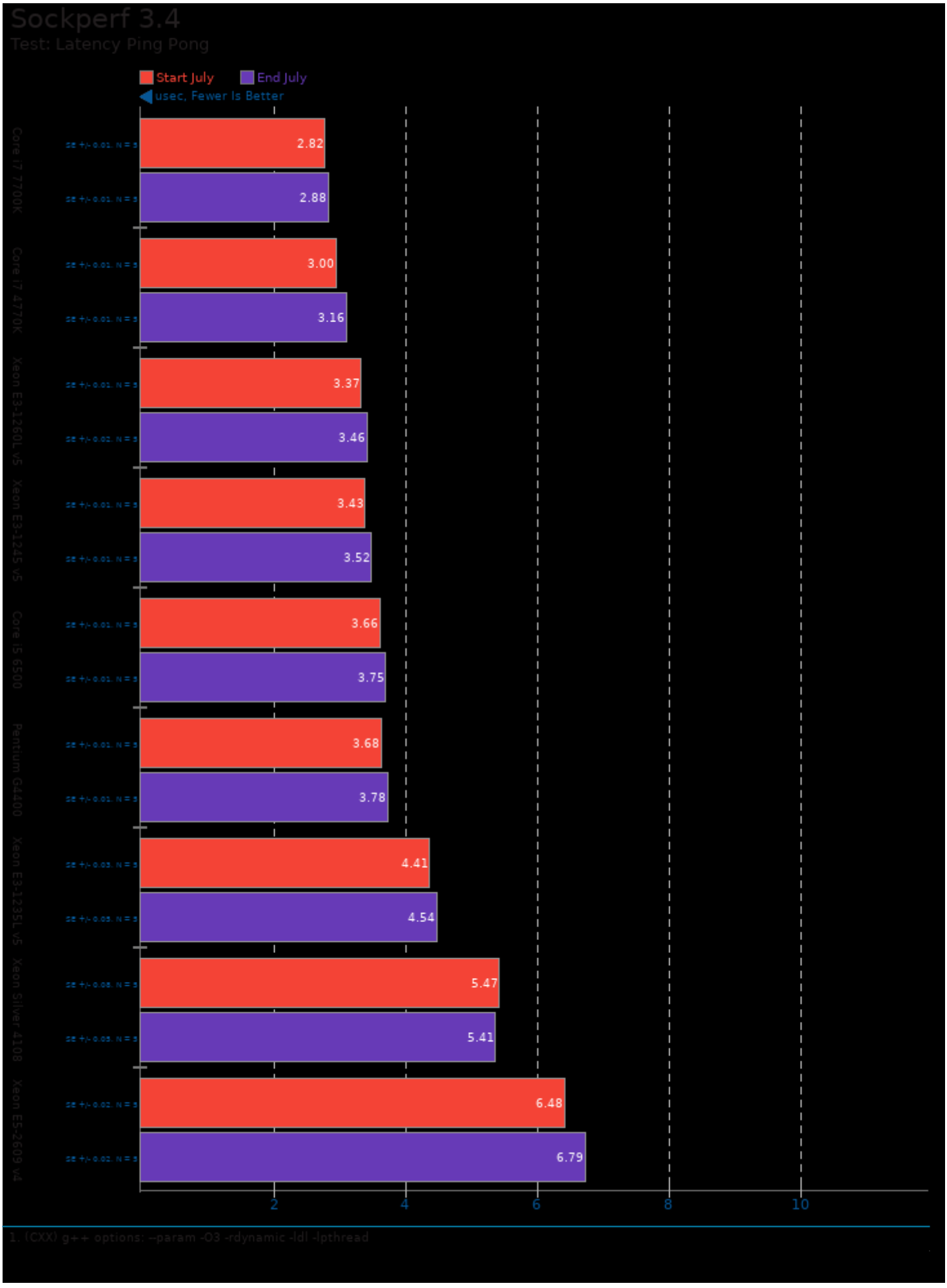
Clear Linux - July 2018 Performance



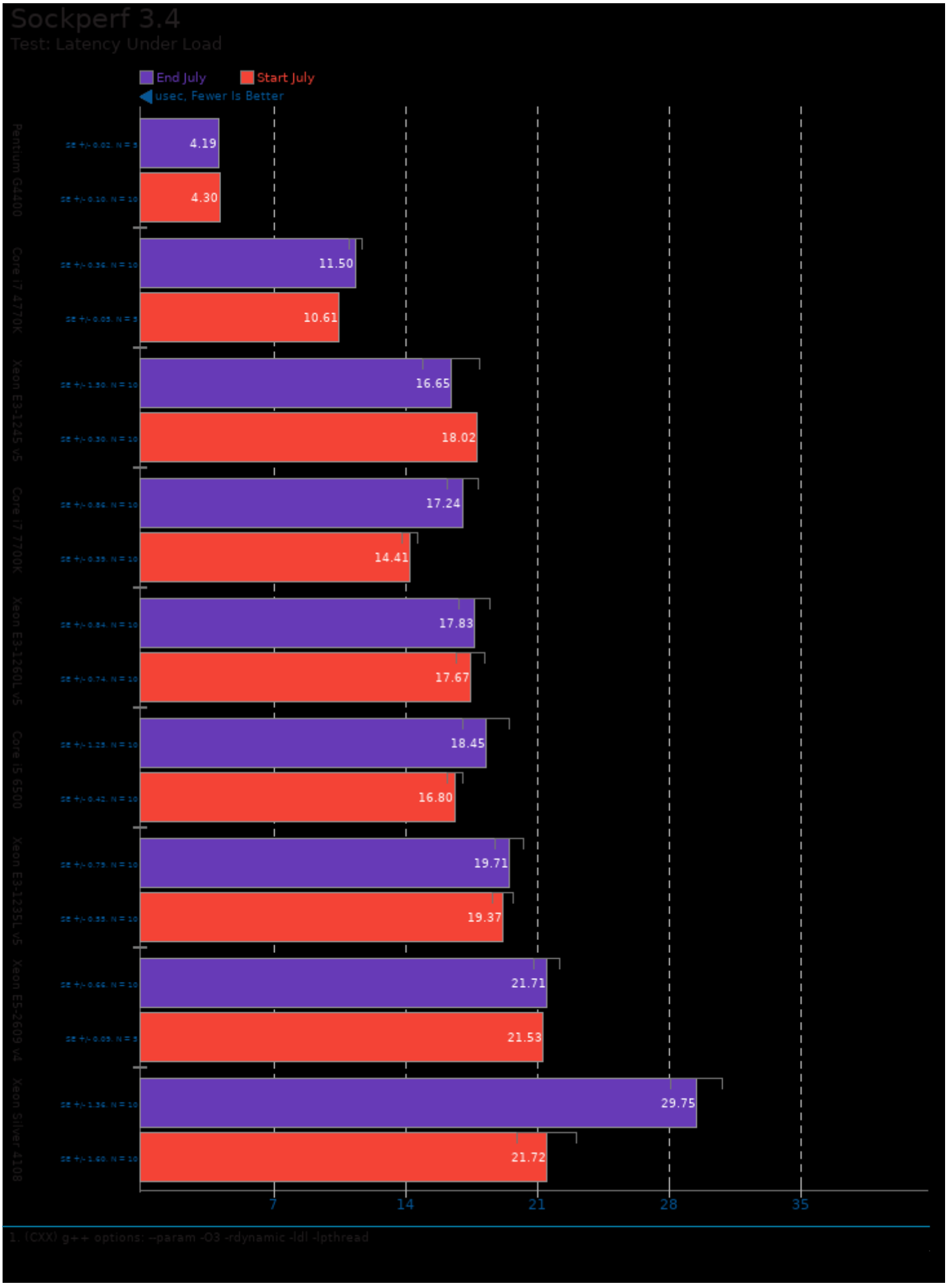
Clear Linux - July 2018 Performance



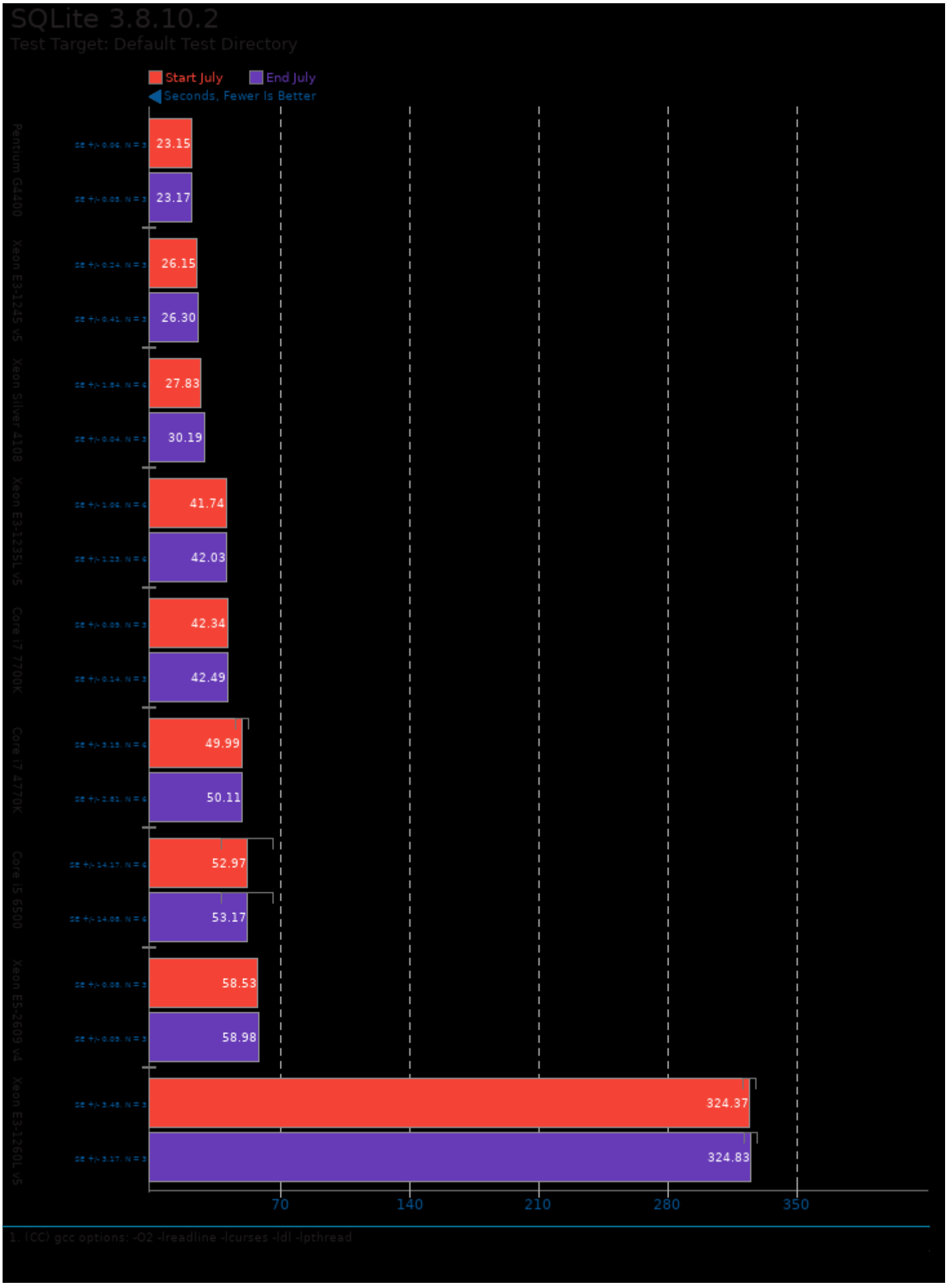
Clear Linux - July 2018 Performance



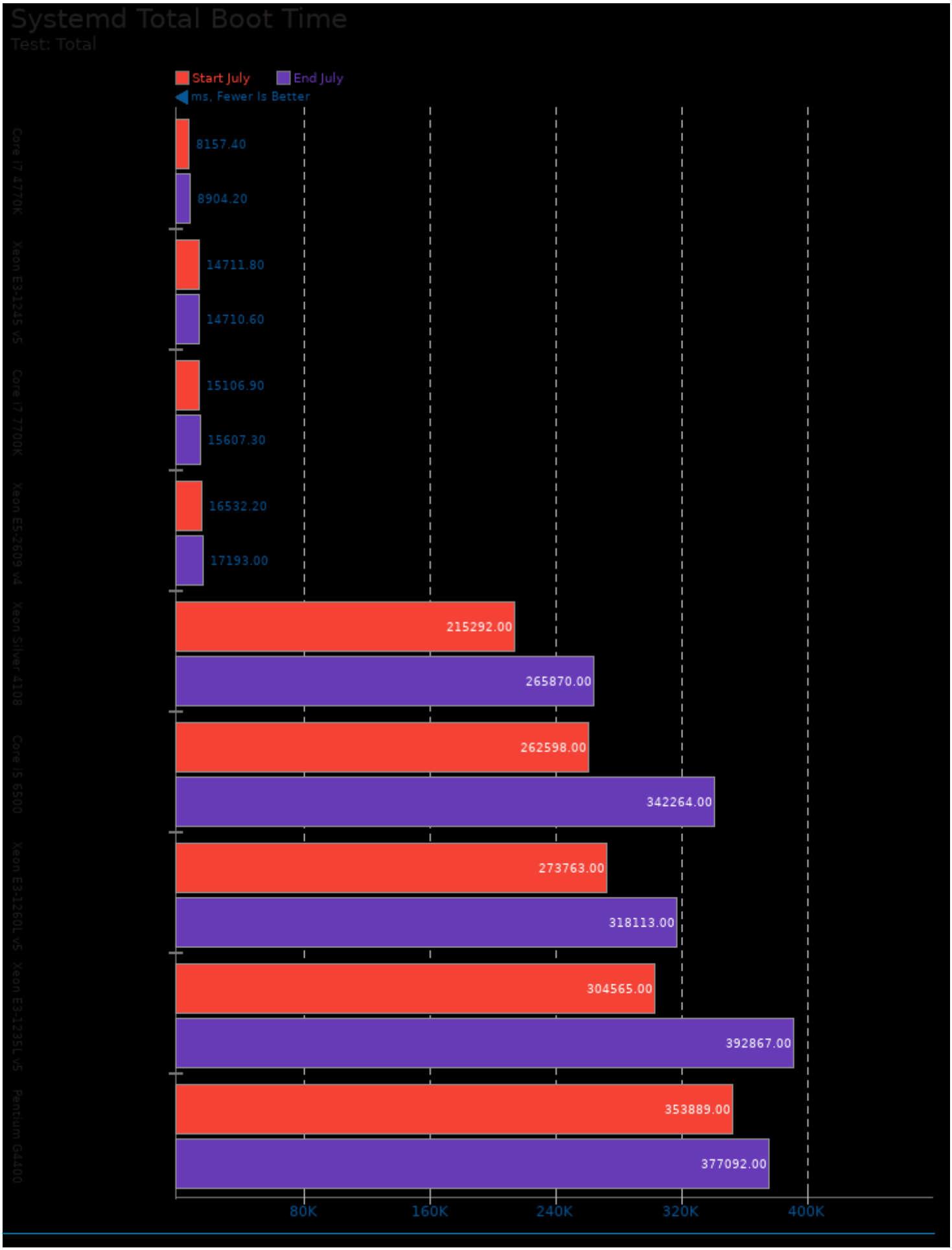
Clear Linux - July 2018 Performance

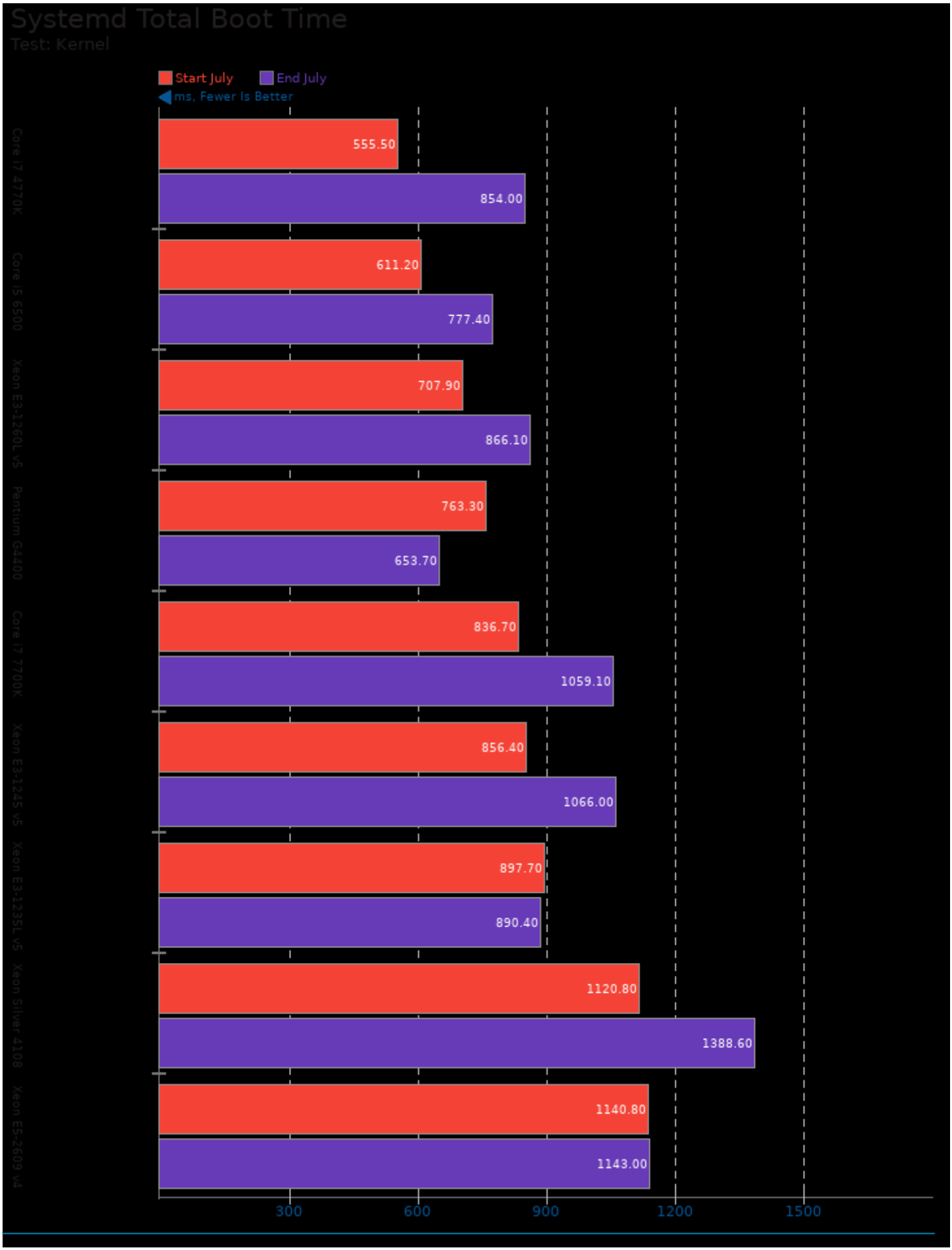


Clear Linux - July 2018 Performance

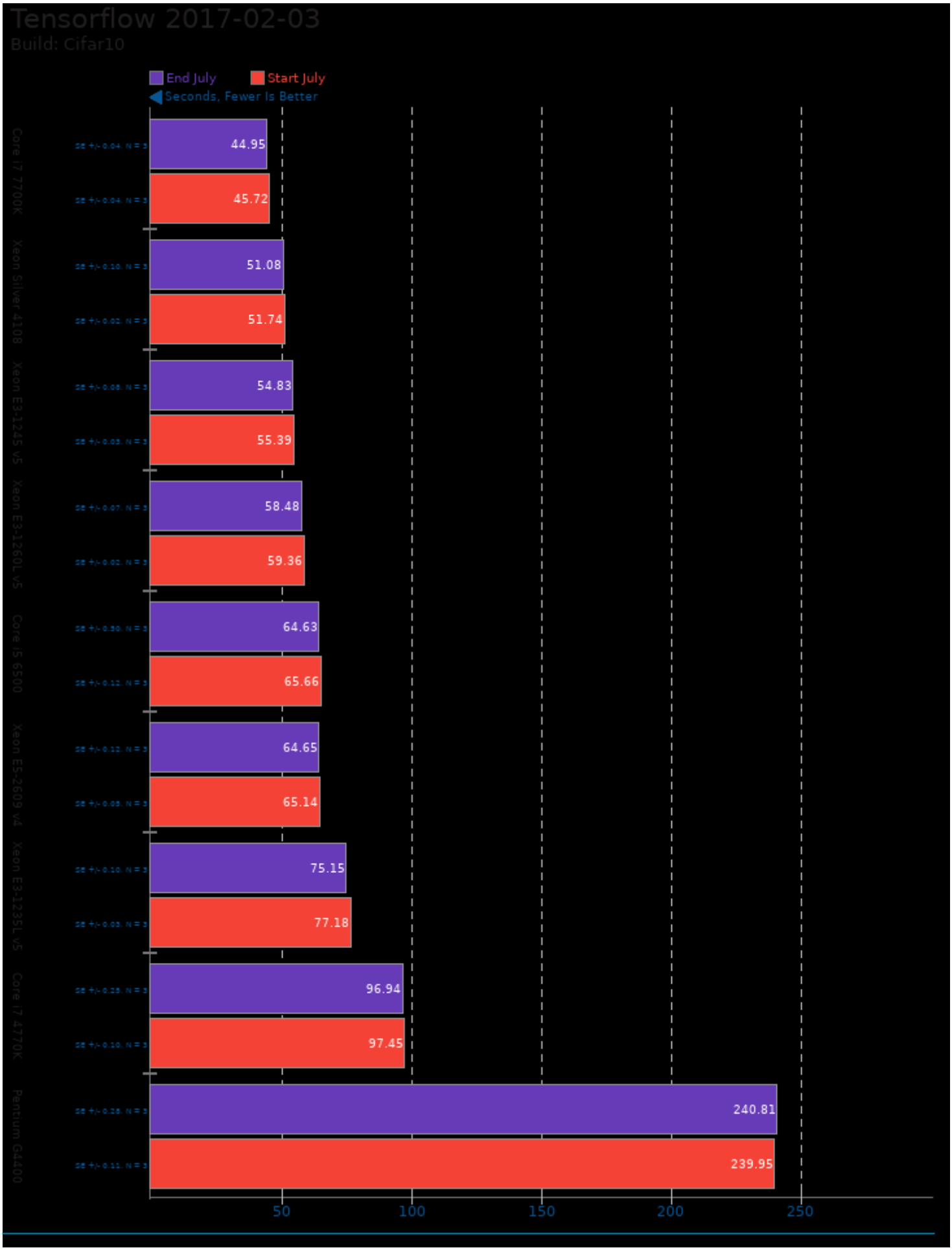


Clear Linux - July 2018 Performance

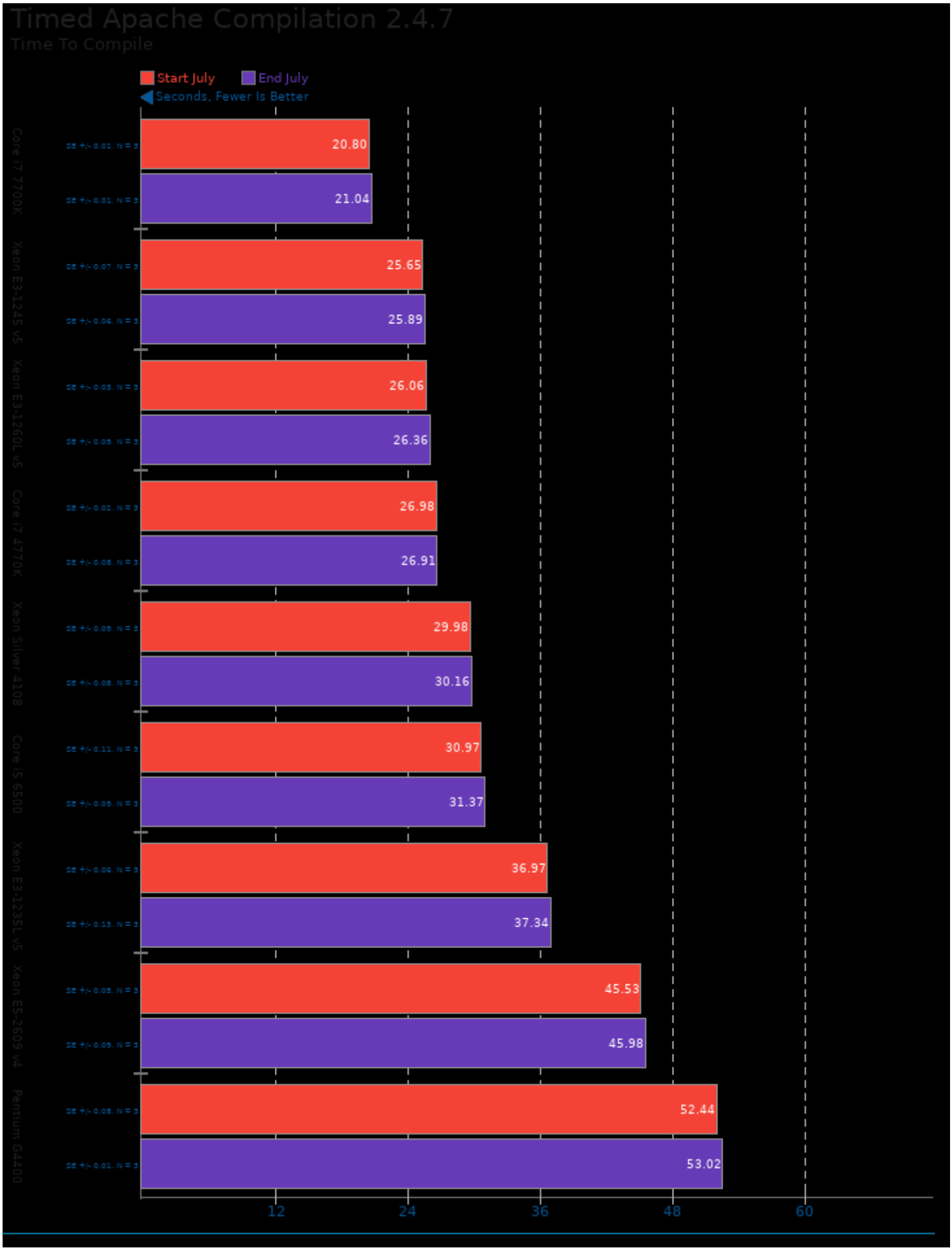



Systemd Total Boot Time
Test: Kernel
Start July
End July
ms, Fewer Is Better
Core i7 4770K
555.50
854.00
Core i5 6500
611.20
777.40
Xeon E3-1260L v5
707.90
866.10
Pentium G4400
763.30
653.70
Core i7 7700K
836.70
1059.10
Xeon E3-1245 v5
856.40
1066.00
Xeon E3-1235L v5
897.70
890.40
Xeon Silver 4108
1120.80
1388.60
Xeon E5-2609 v4
1140.80
1143.00
300
600
900
1200
1500

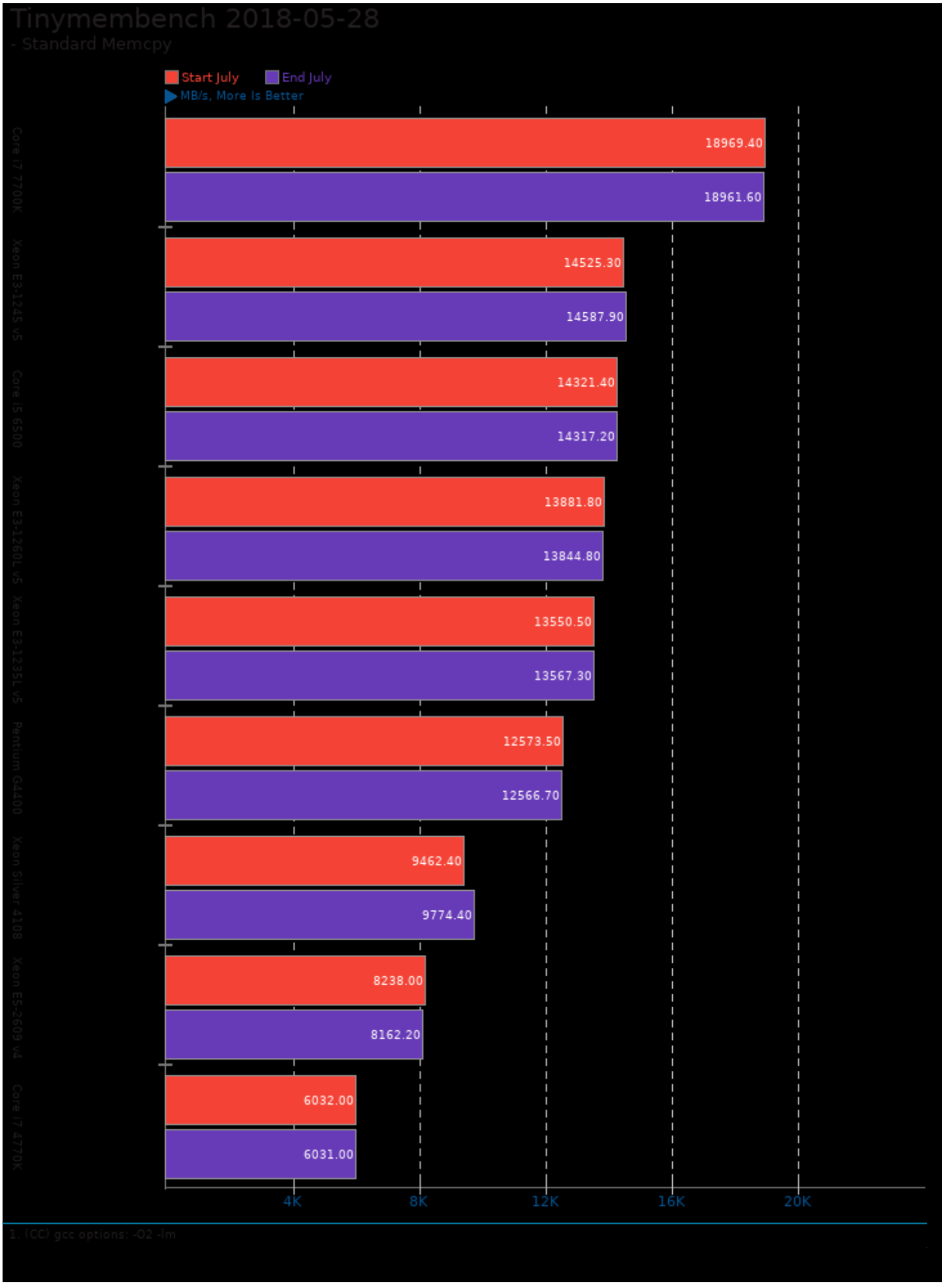
Clear Linux - July 2018 Performance



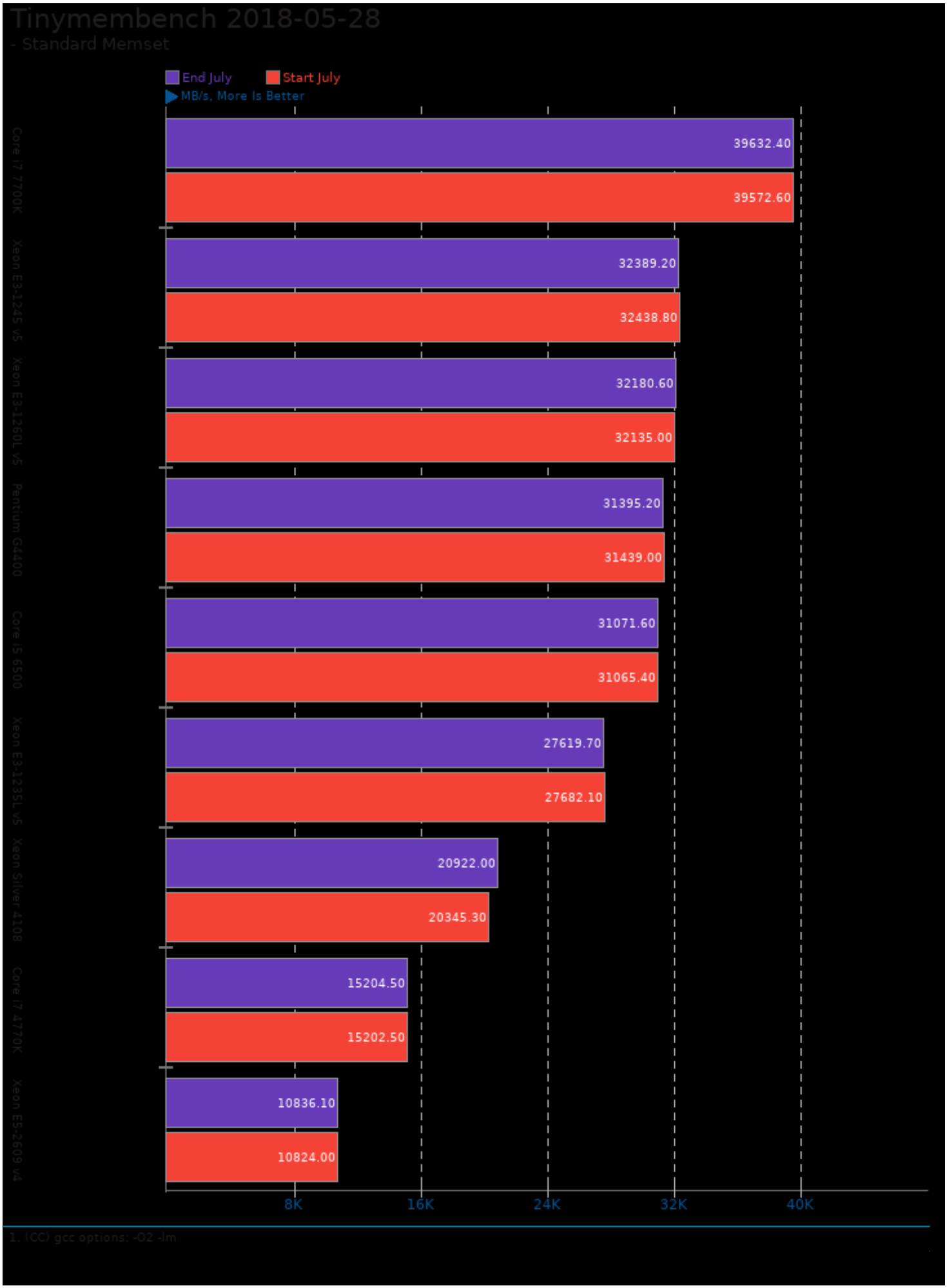
Clear Linux - July 2018 Performance



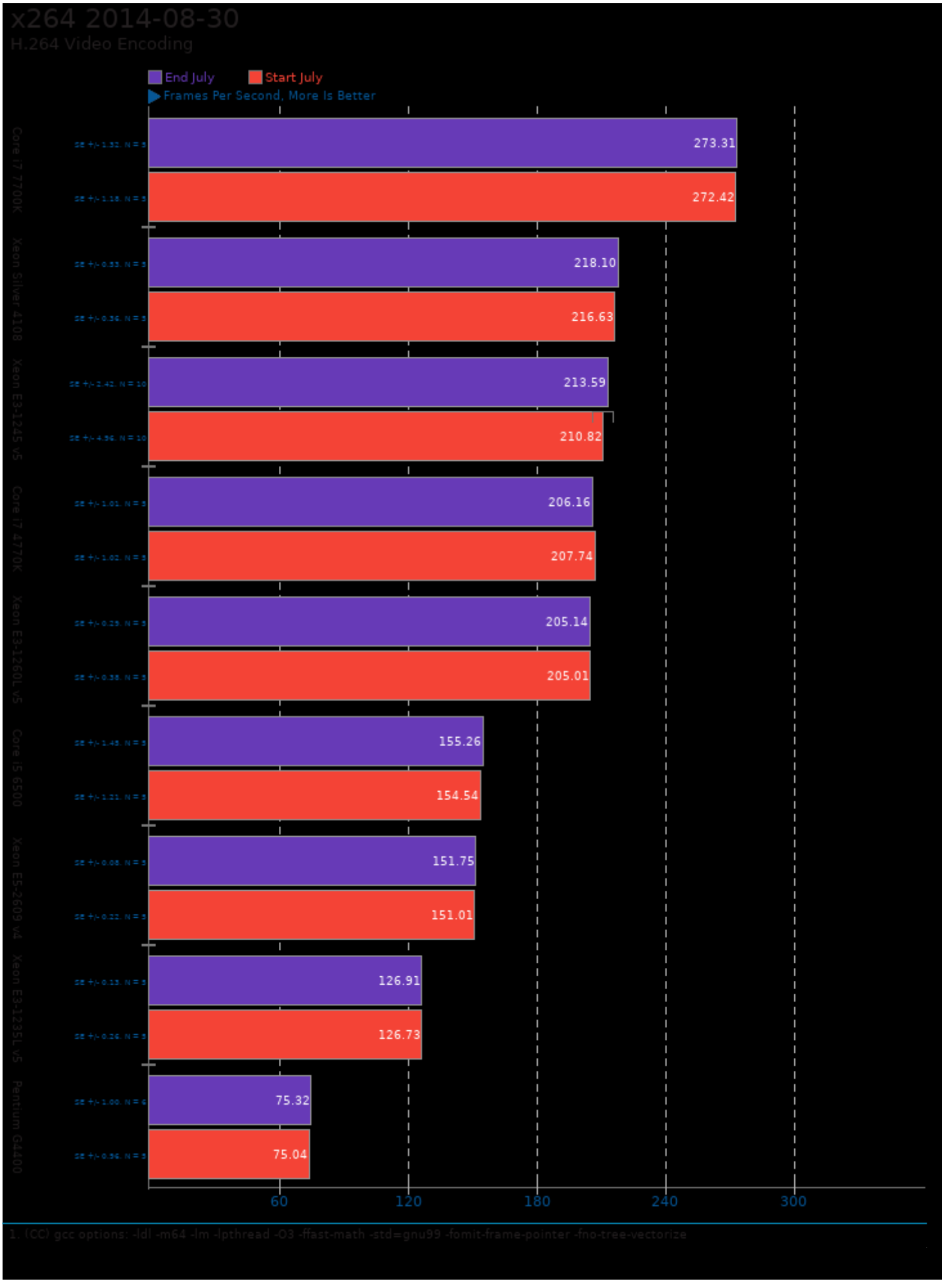
Clear Linux - July 2018 Performance

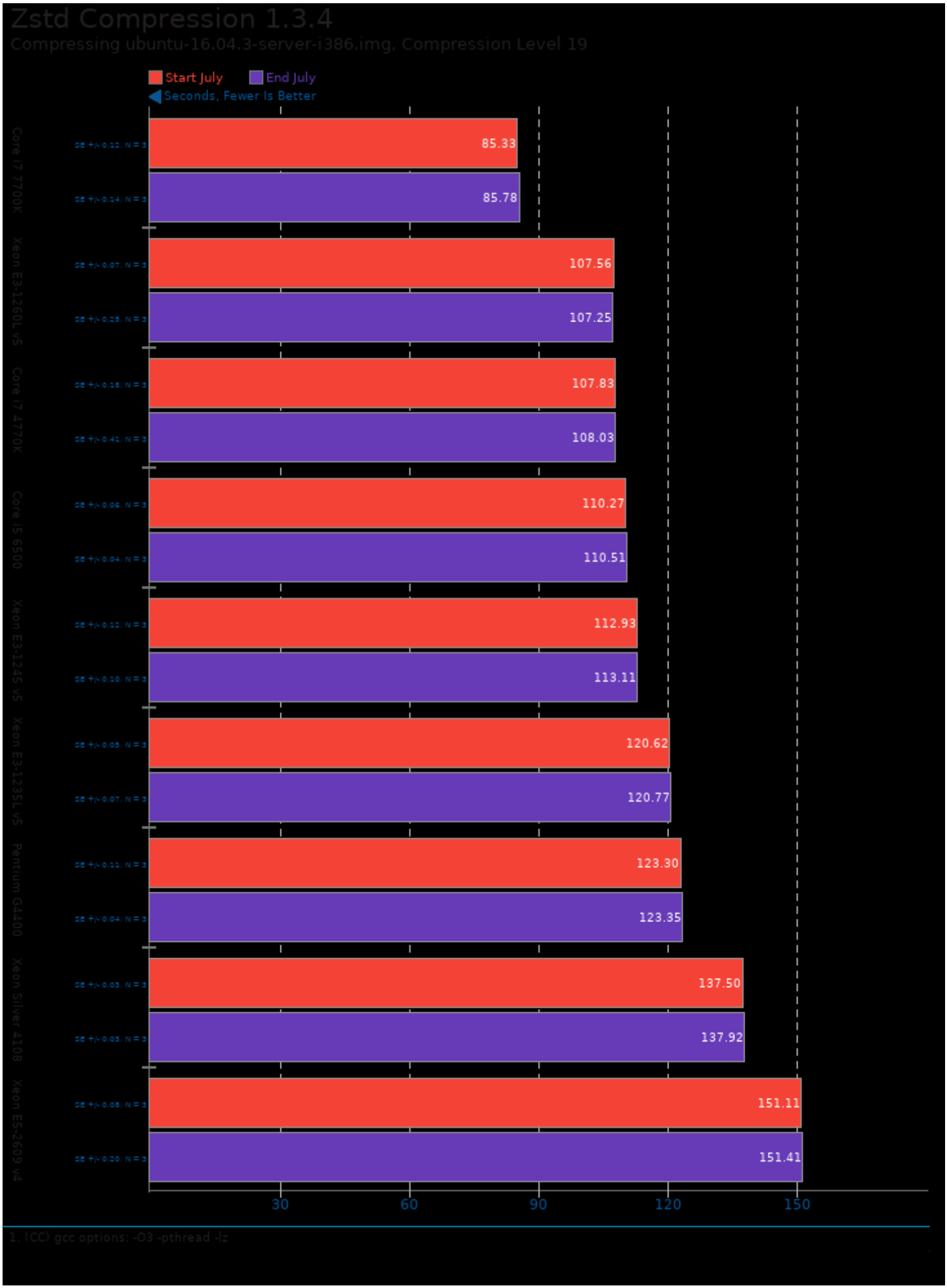


Clear Linux - July 2018 Performance

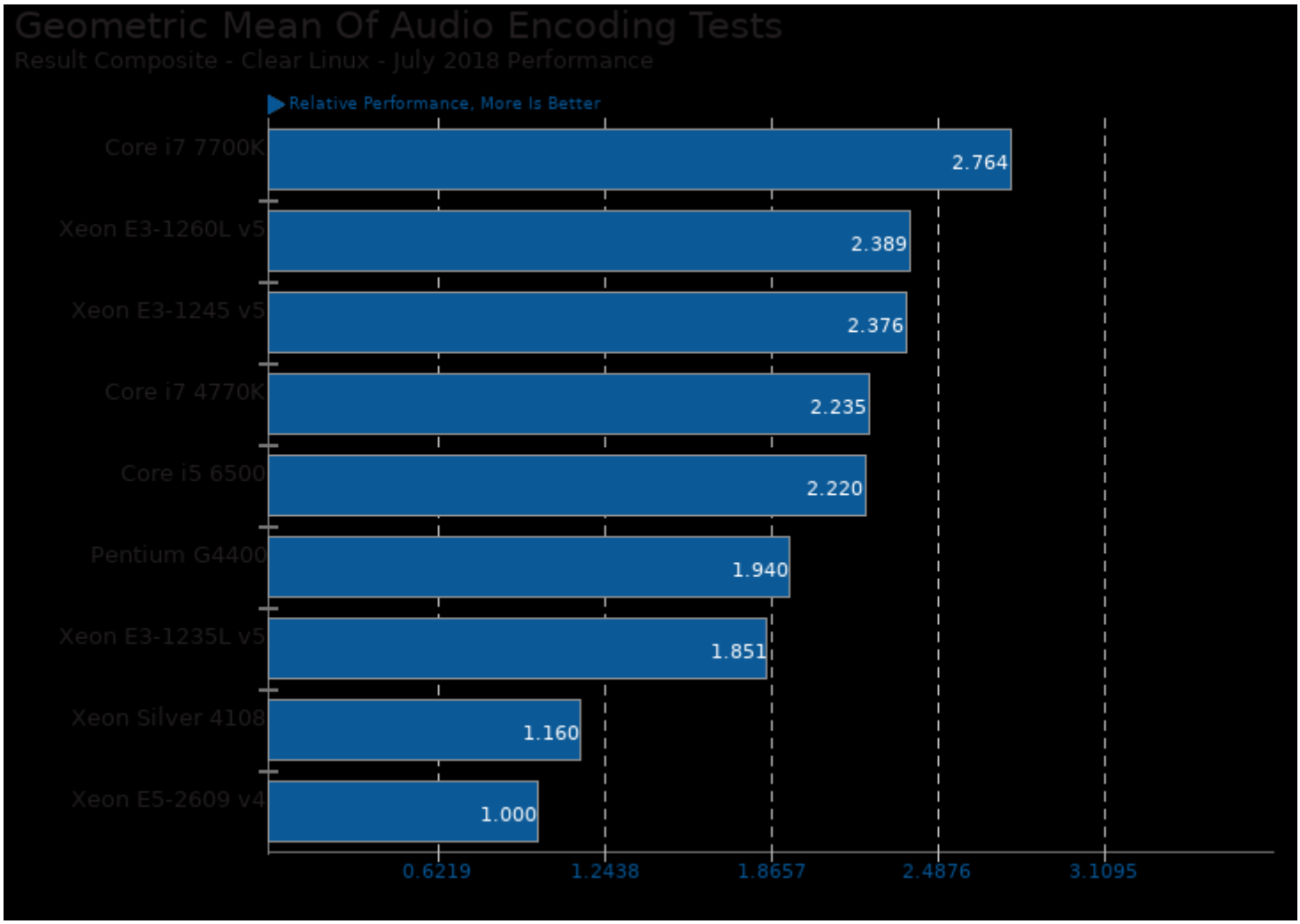


Clear Linux - July 2018 Performance



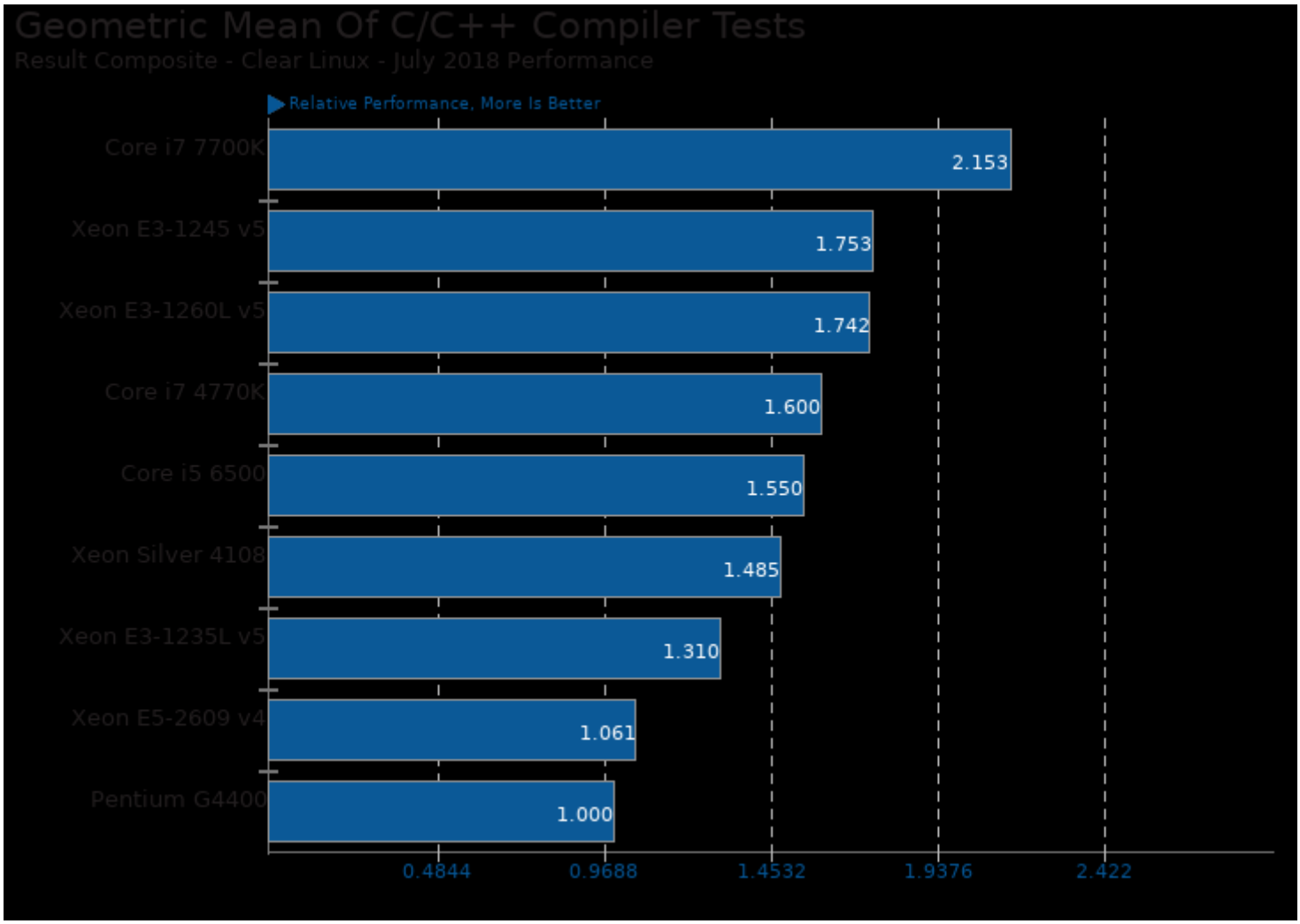

Zstd Compression 1.3.4
Compressing ubuntu-16.04.3-server-i386.img, Compression Level 19
Start July
End July
Seconds, Fewer Is Better
Core i7 7700K
Xeon E3-1260L v5
Core i7 4770K
Core i5 6500
Xeon E3-1245 v5
Xeon E3-1235L v5
Pentium G4400
Xeon Silver 4108
Xeon E5-2609 v4
85.33
85.78
107.56
107.25
107.83
108.03
110.27
110.51
112.93
113.11
120.62
120.77
123.30
123.35
137.50
137.92
151.11
151.41
30
60
90
120
150
1. (CC) gcc options: -O3 -pthread -lz

These geometric means are based upon test groupings / test suites for this result file.



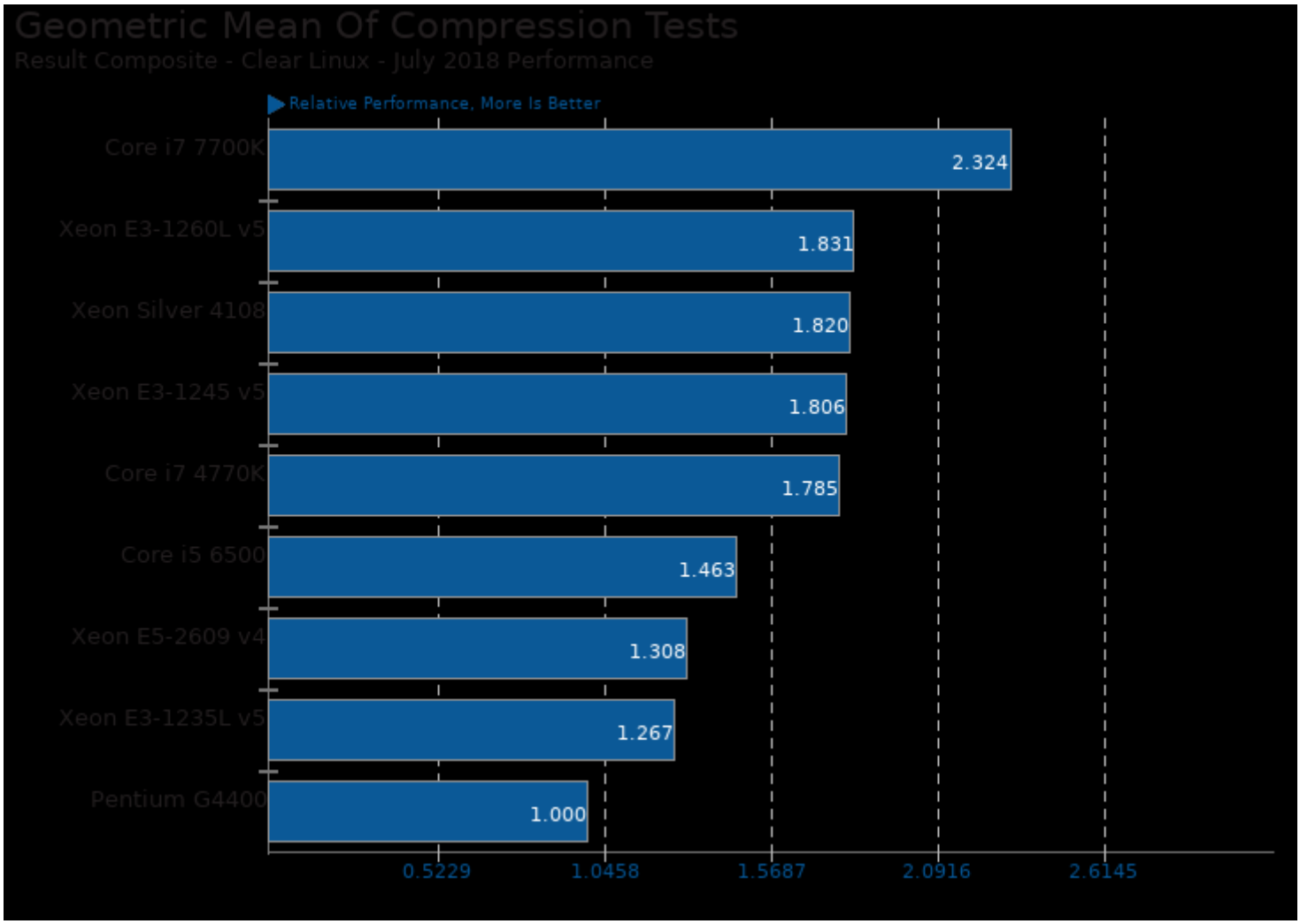
Geometric mean based upon tests: pts/encode-mp3 and pts/encode-flac

Clear Linux - July 2018 Performance

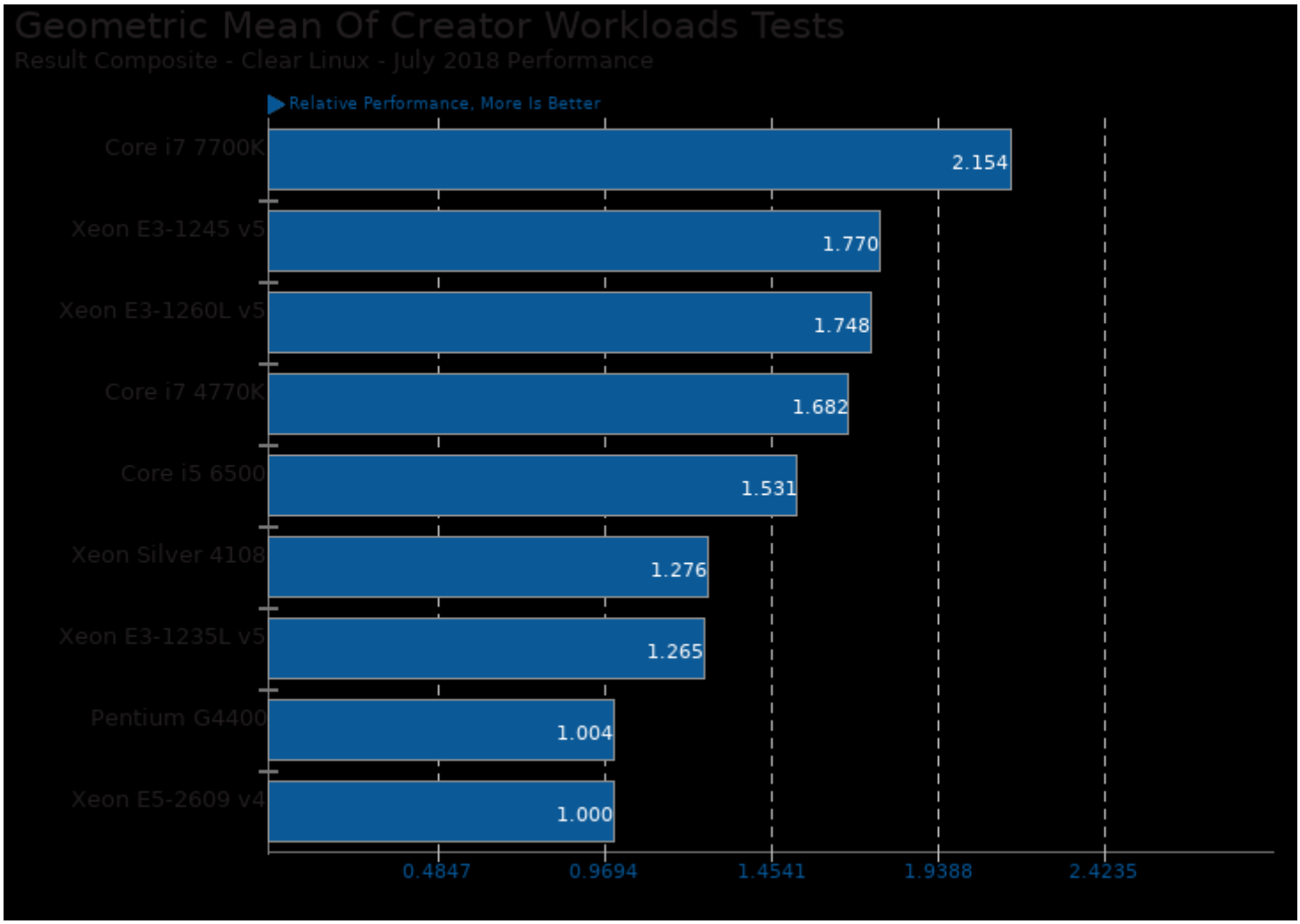


Geometric mean based upon tests: pts/scimark2, pts/graphics-magick, pts/himeno, pts/c-ray, pts/bullet, pts/compress-7zip, pts/encode-mp3, pts/encode-flac, pts/apache, pts/x264, pts/compress-zstd, pts/openssl, pts/nginx and pts/build-apache

Clear Linux - July 2018 Performance

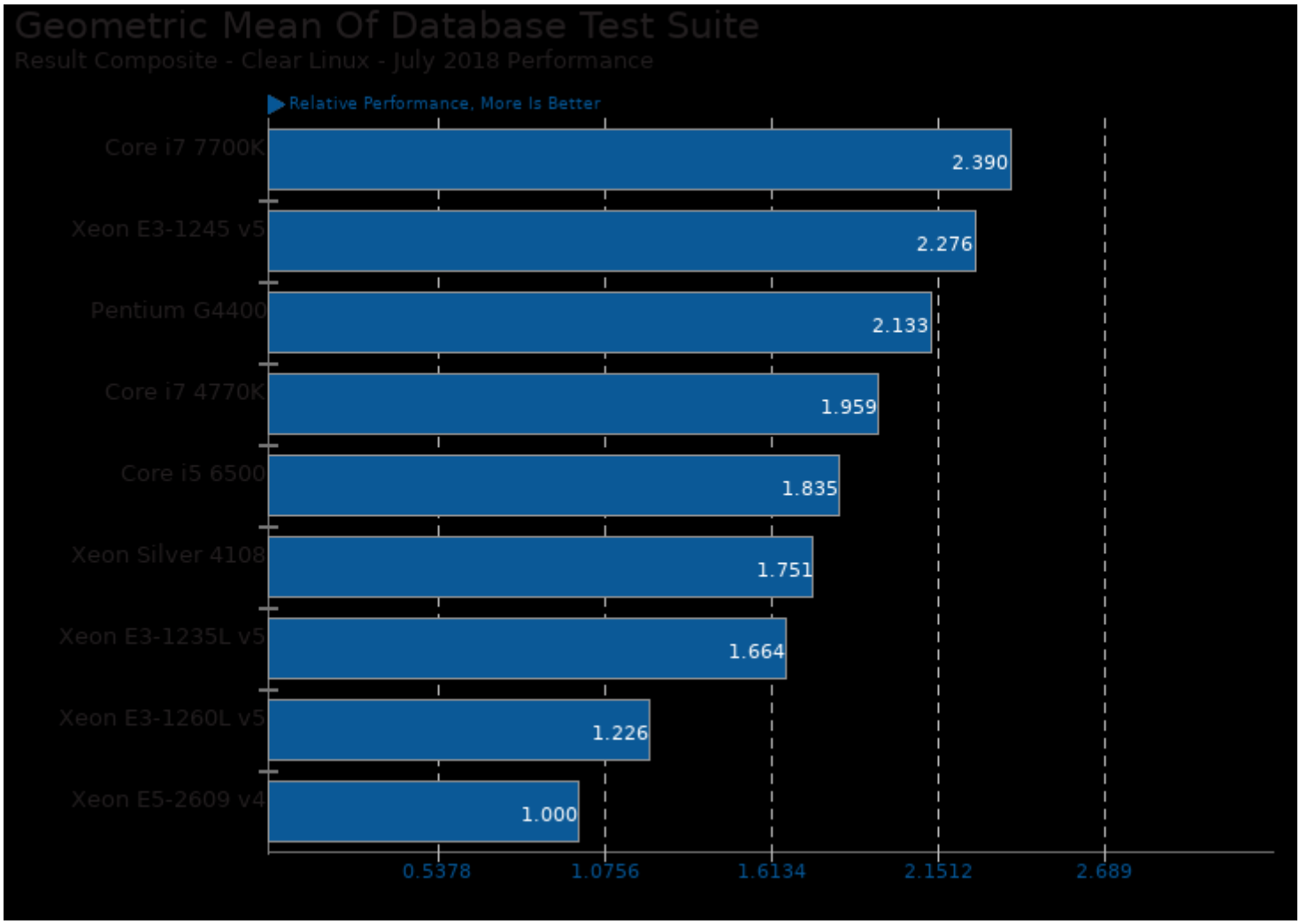


Geometric mean based upon tests: pts/compress-7zip and pts/compress-zstd



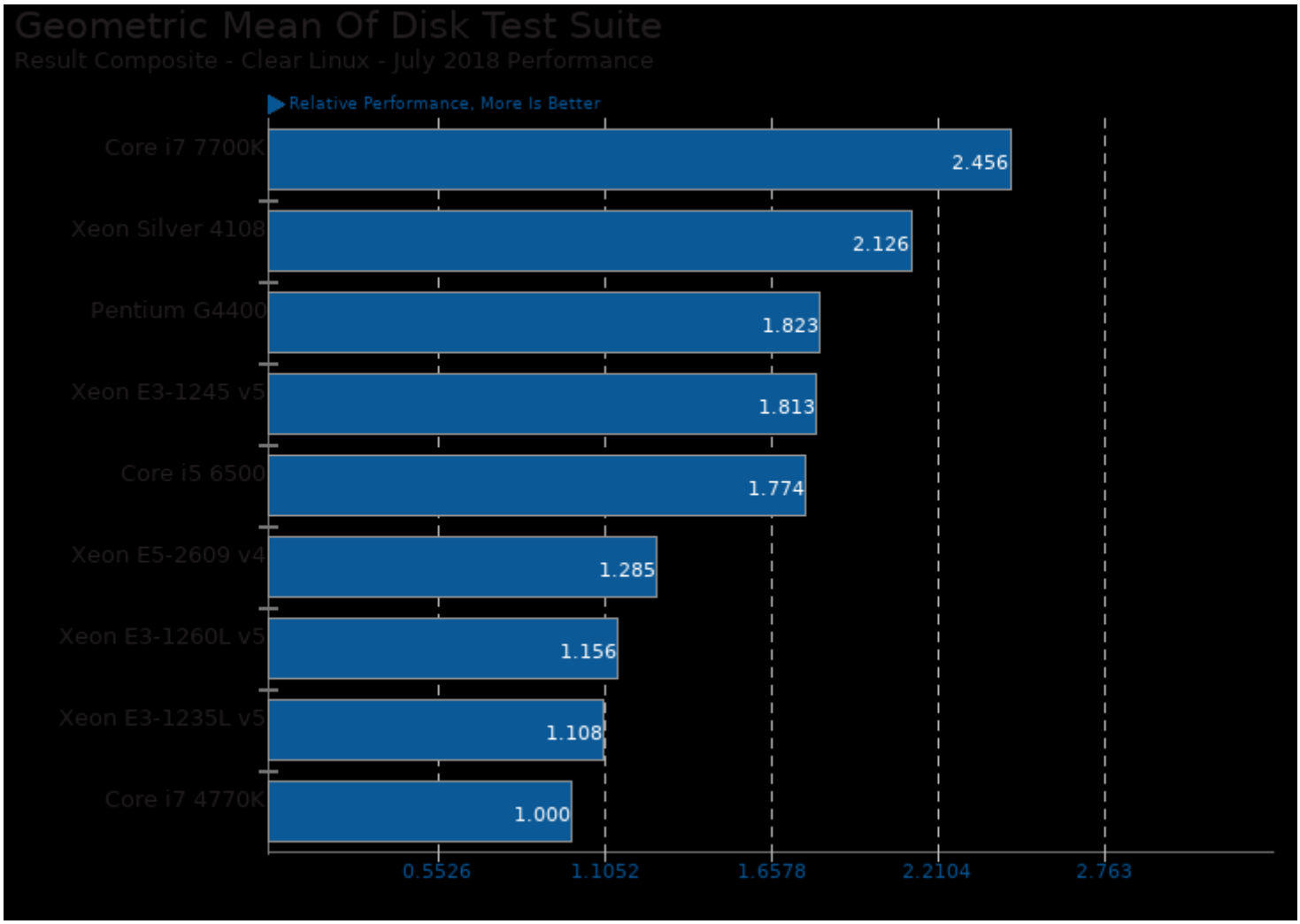
Geometric mean based upon tests: pts/c-ray, pts/smallpt, pts/x264, pts/encode-mp3, pts/encode-flac and pts/graphics-magick

Clear Linux - July 2018 Performance



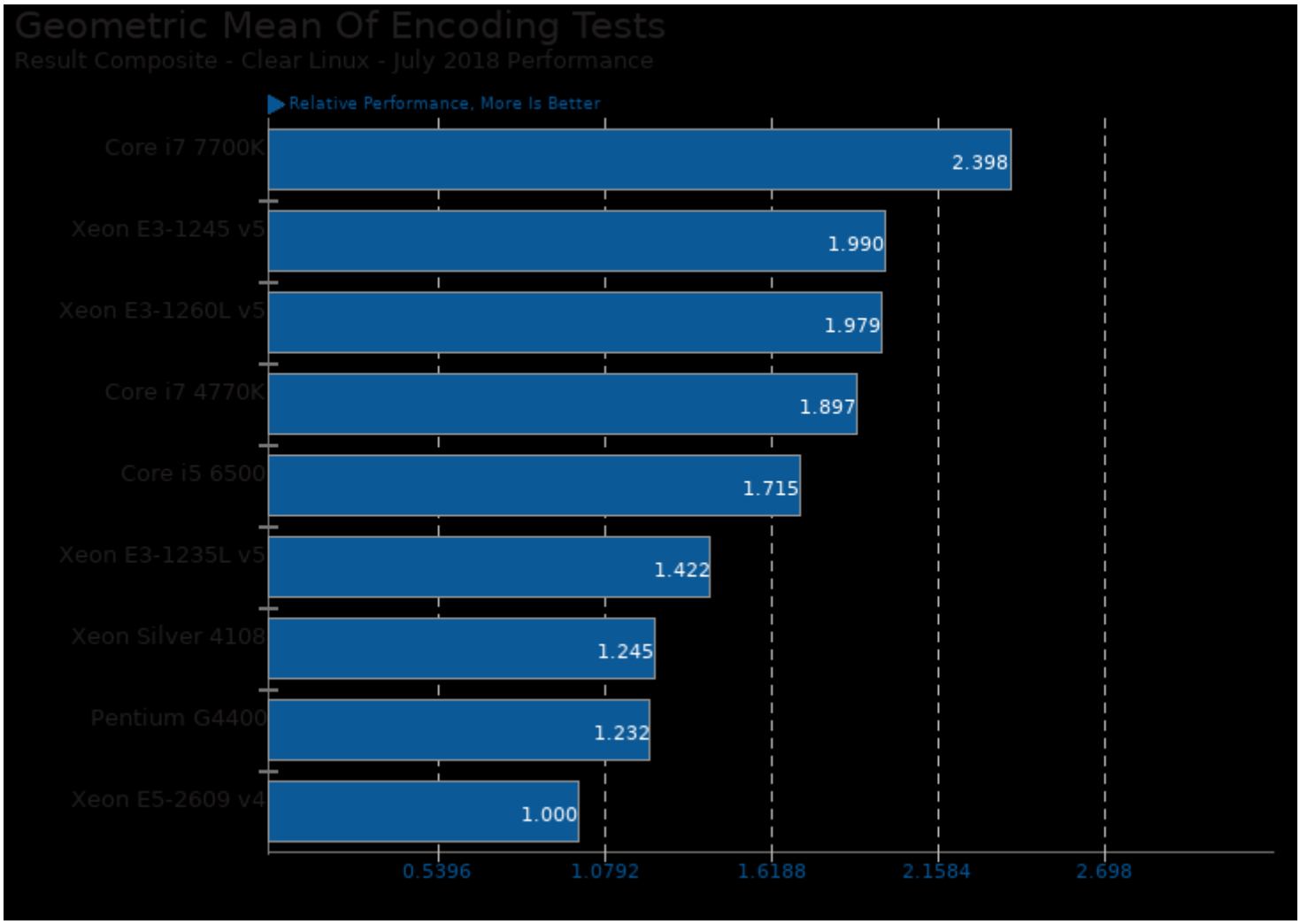
Geometric mean based upon tests: pts/sqlite and pts/redis

Clear Linux - July 2018 Performance



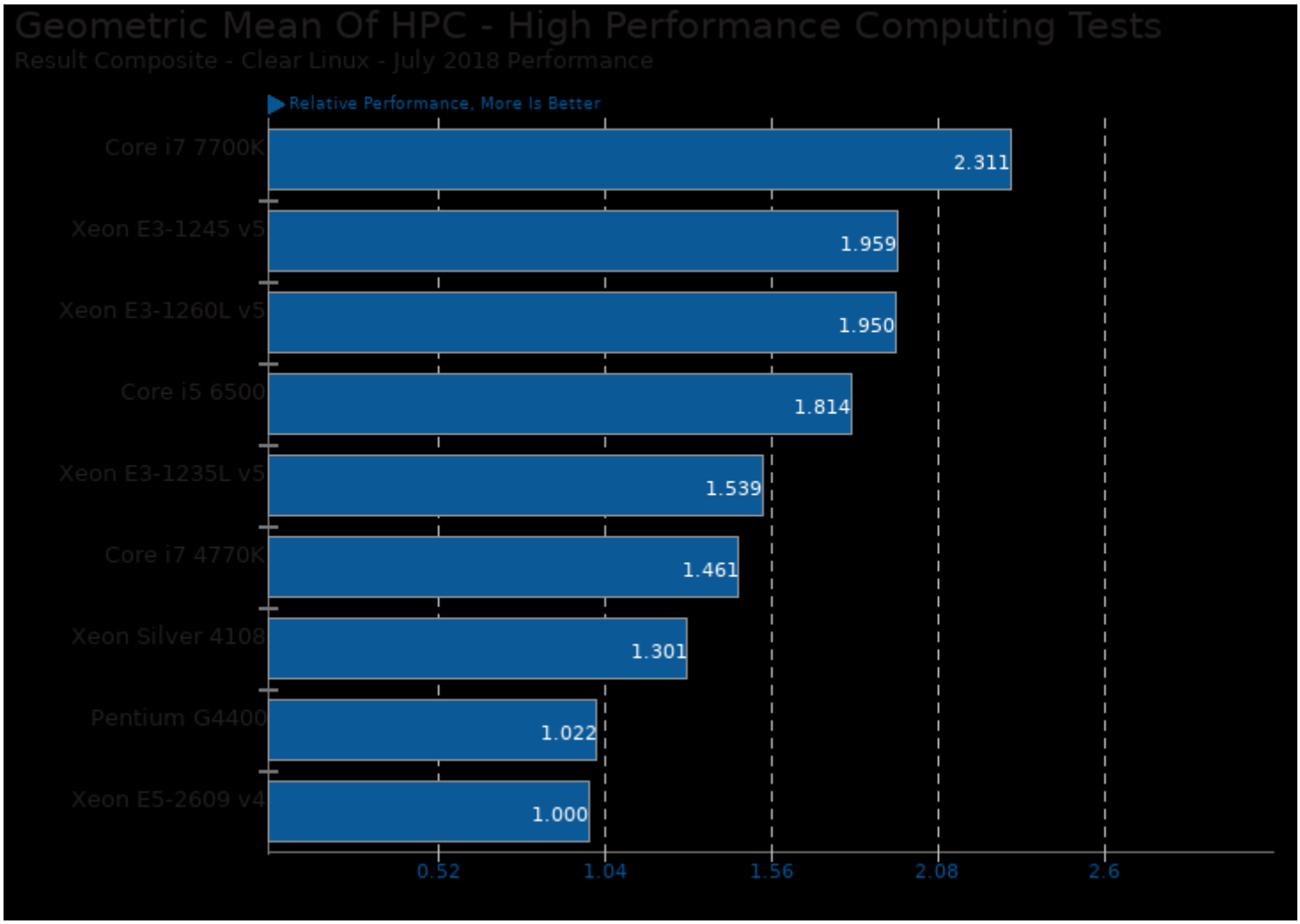
Geometric mean based upon tests: pts/sqlite, pts/iozone and pts/postmark

Clear Linux - July 2018 Performance



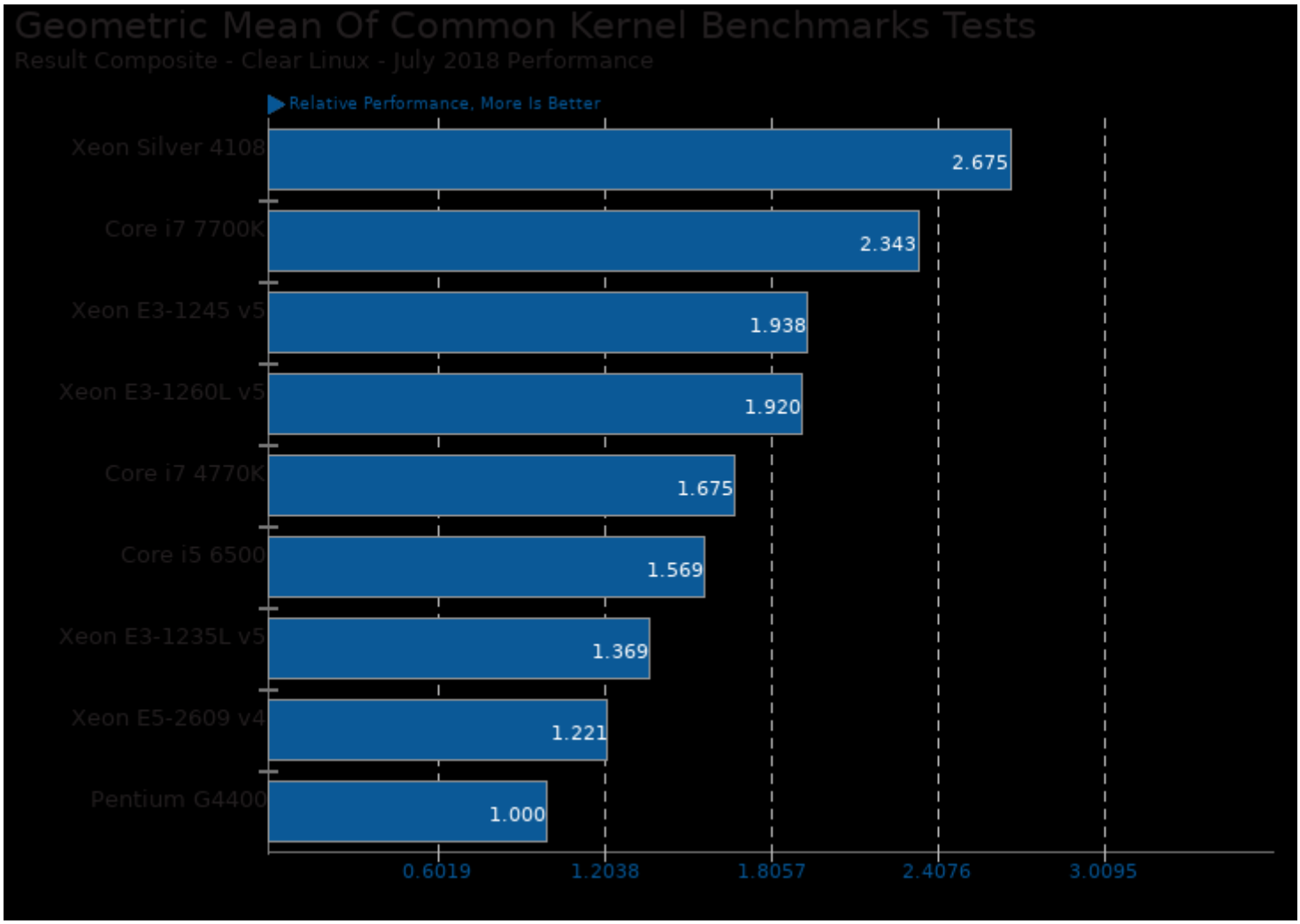
Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/x264

Clear Linux - July 2018 Performance



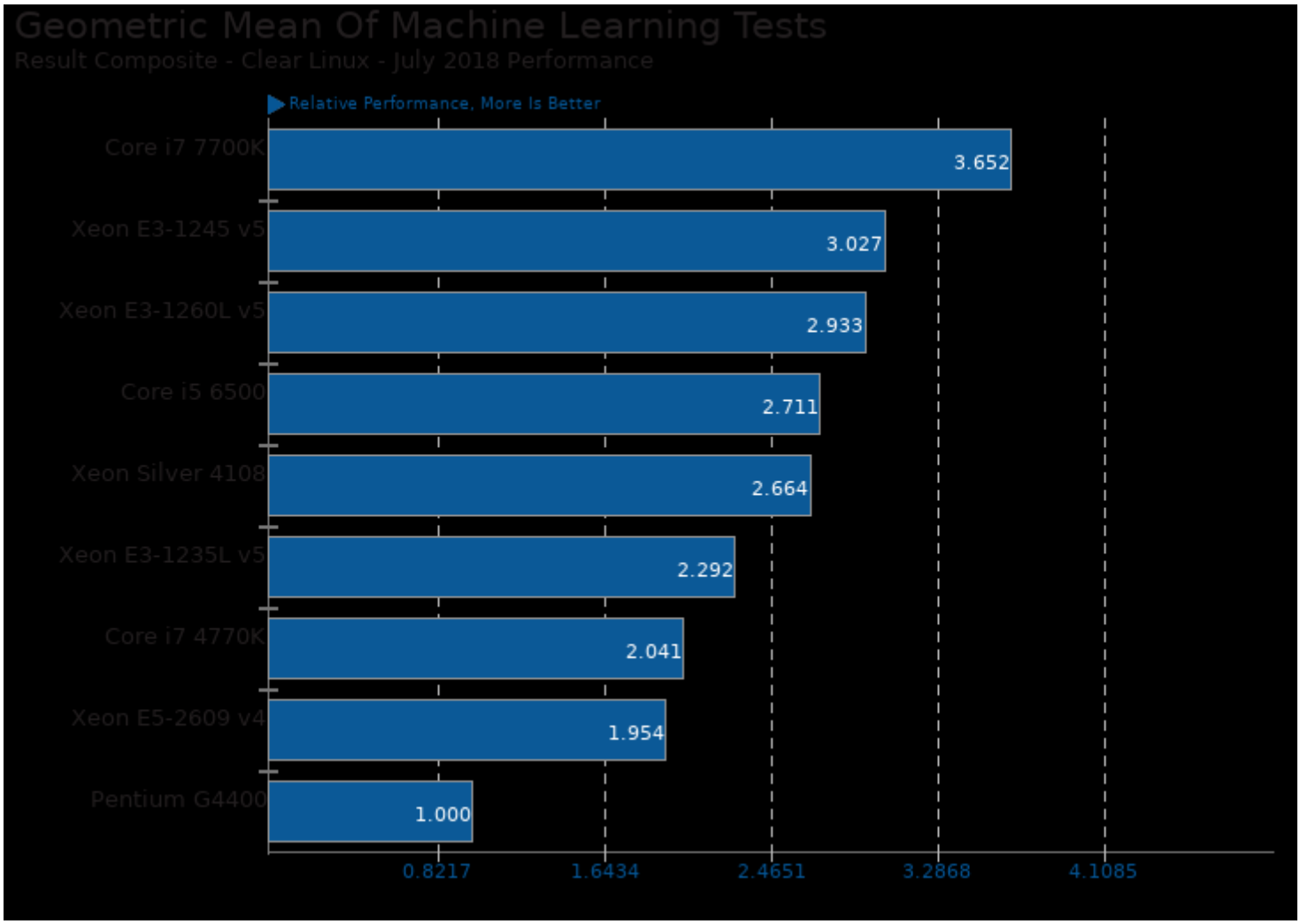
Geometric mean based upon tests: pts/ffte, pts/himeno, pts/caffe, pts/rbenchmark, pts/scikit-learn and pts/tensorflow

Clear Linux - July 2018 Performance



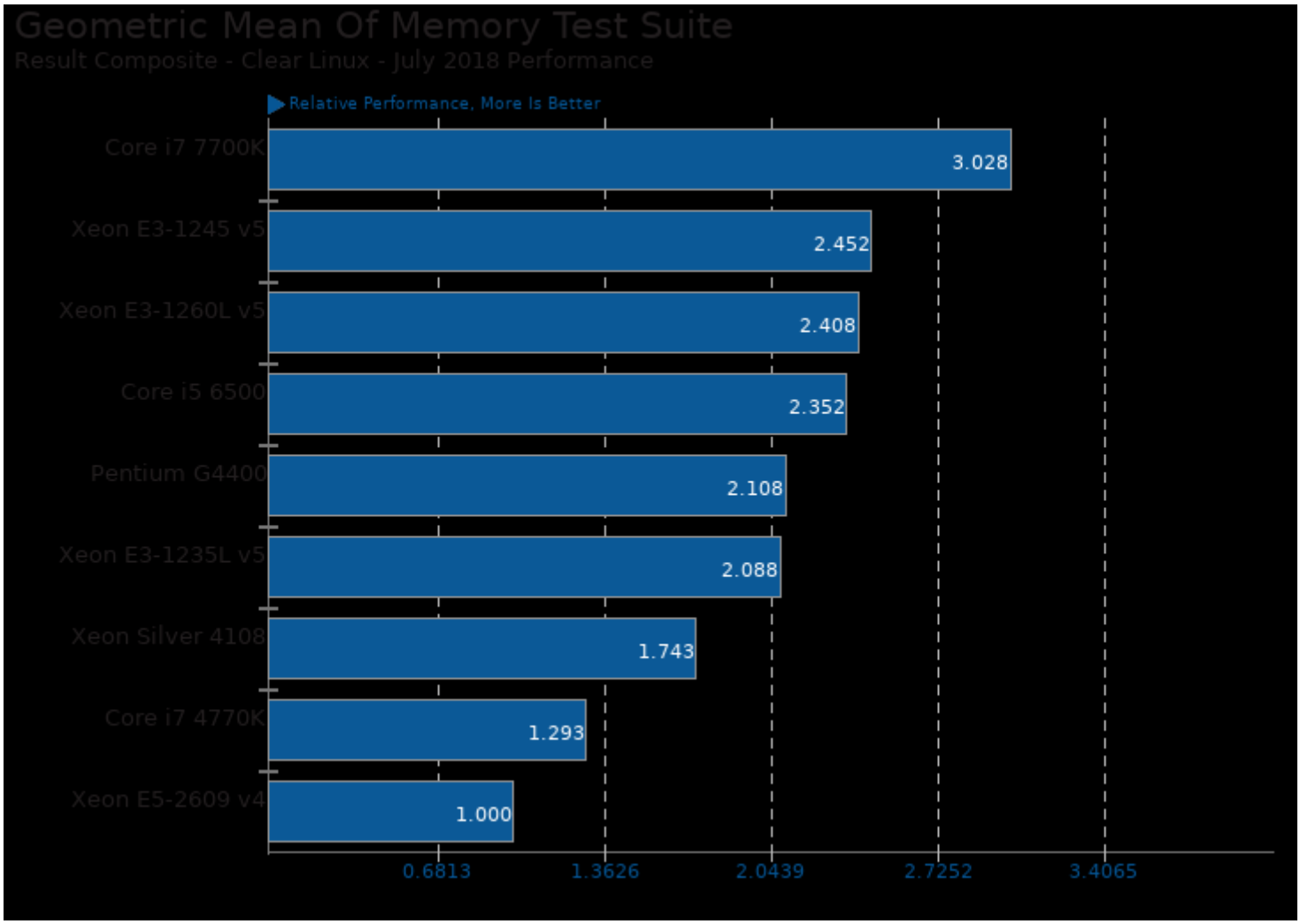
Geometric mean based upon tests: pts/apache, pts/postmark, pts/tinymembench, pts/openssl, pts/hackbench, pts/schbench and pts/osbench

Clear Linux - July 2018 Performance



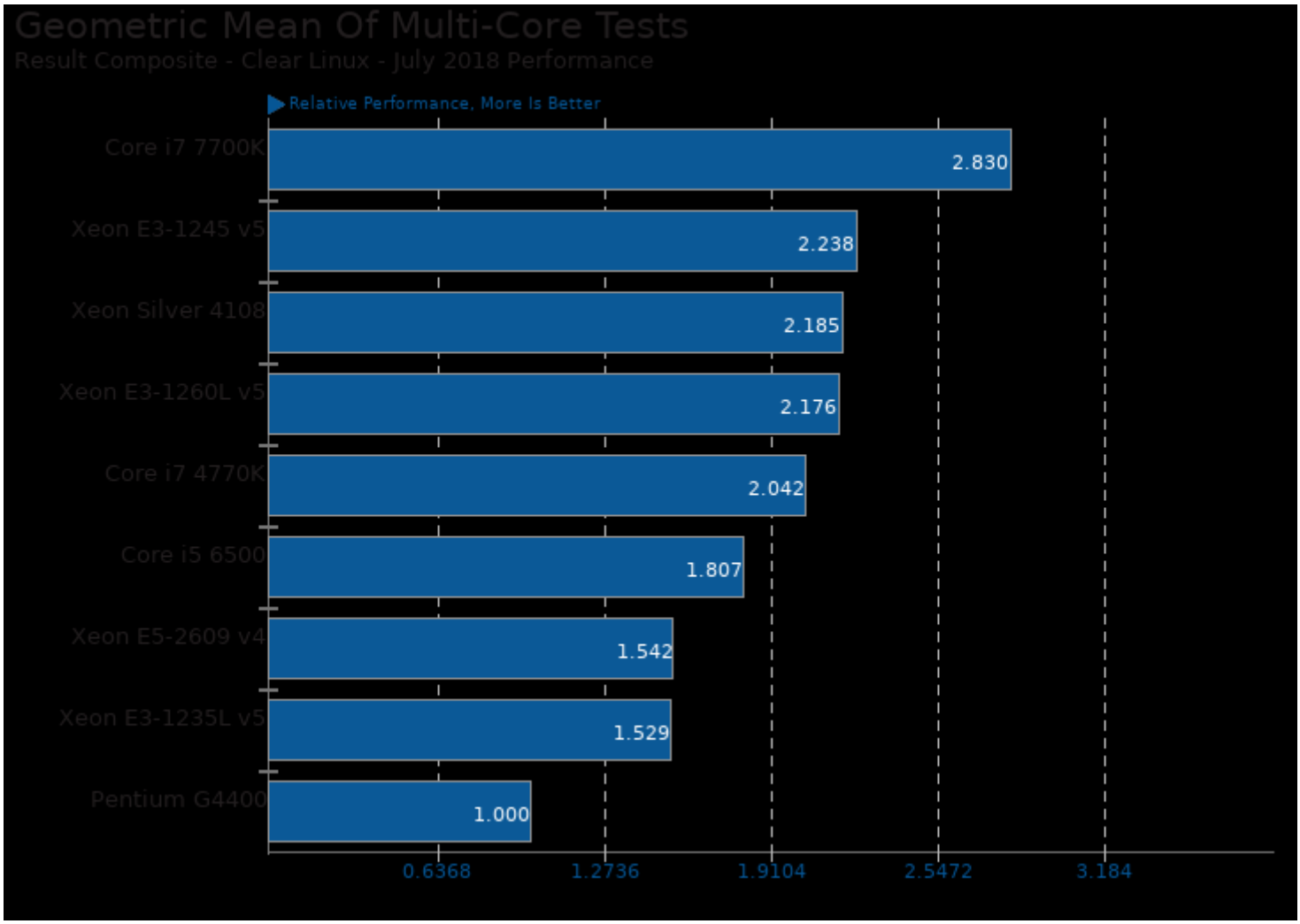
Geometric mean based upon tests: pts/caffe, pts/rbenchmark, pts/scikit-learn and pts/tensorflow

Clear Linux - July 2018 Performance



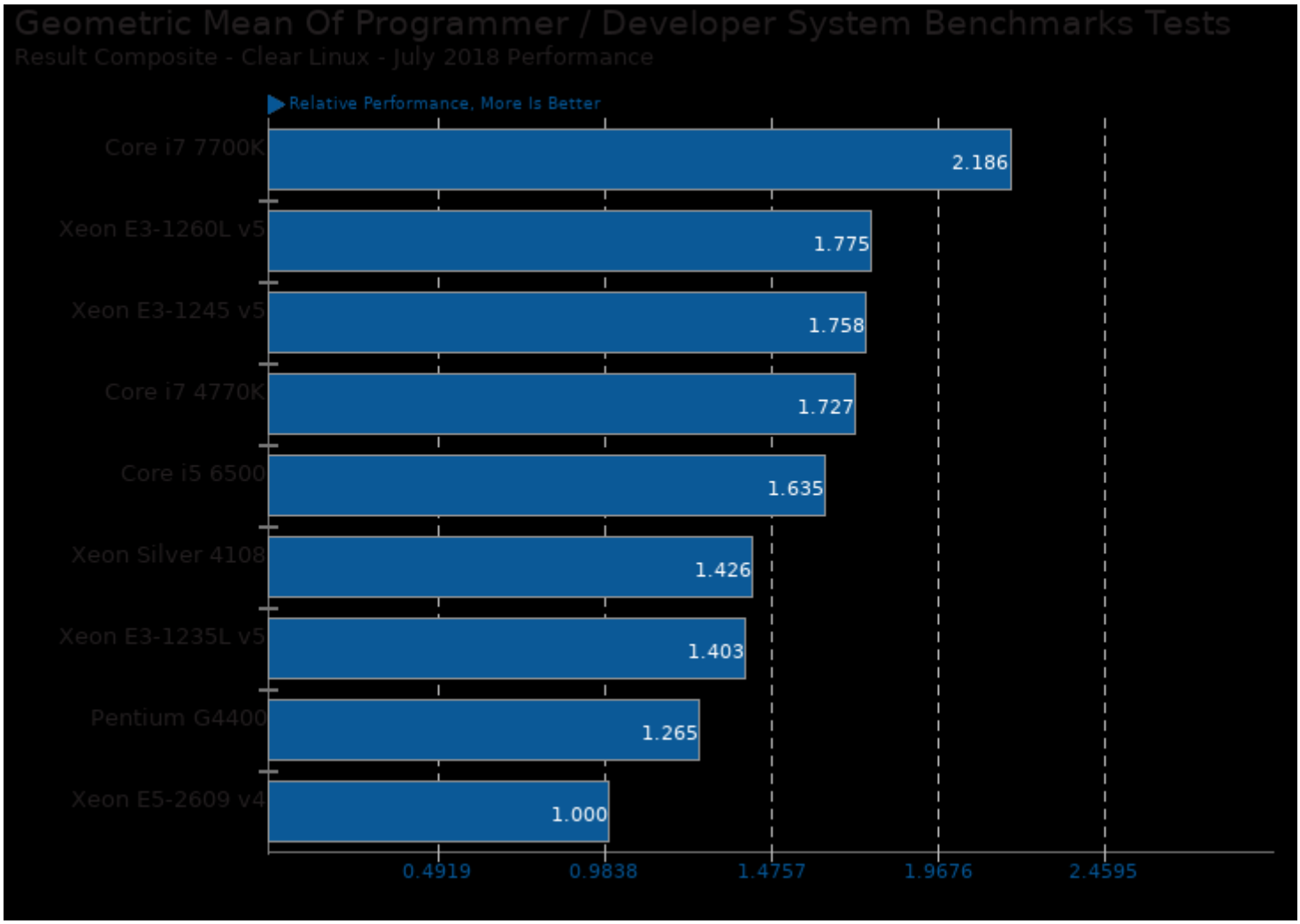
Geometric mean based upon tests: pts/cachebench and pts/tinymembench

Clear Linux - July 2018 Performance



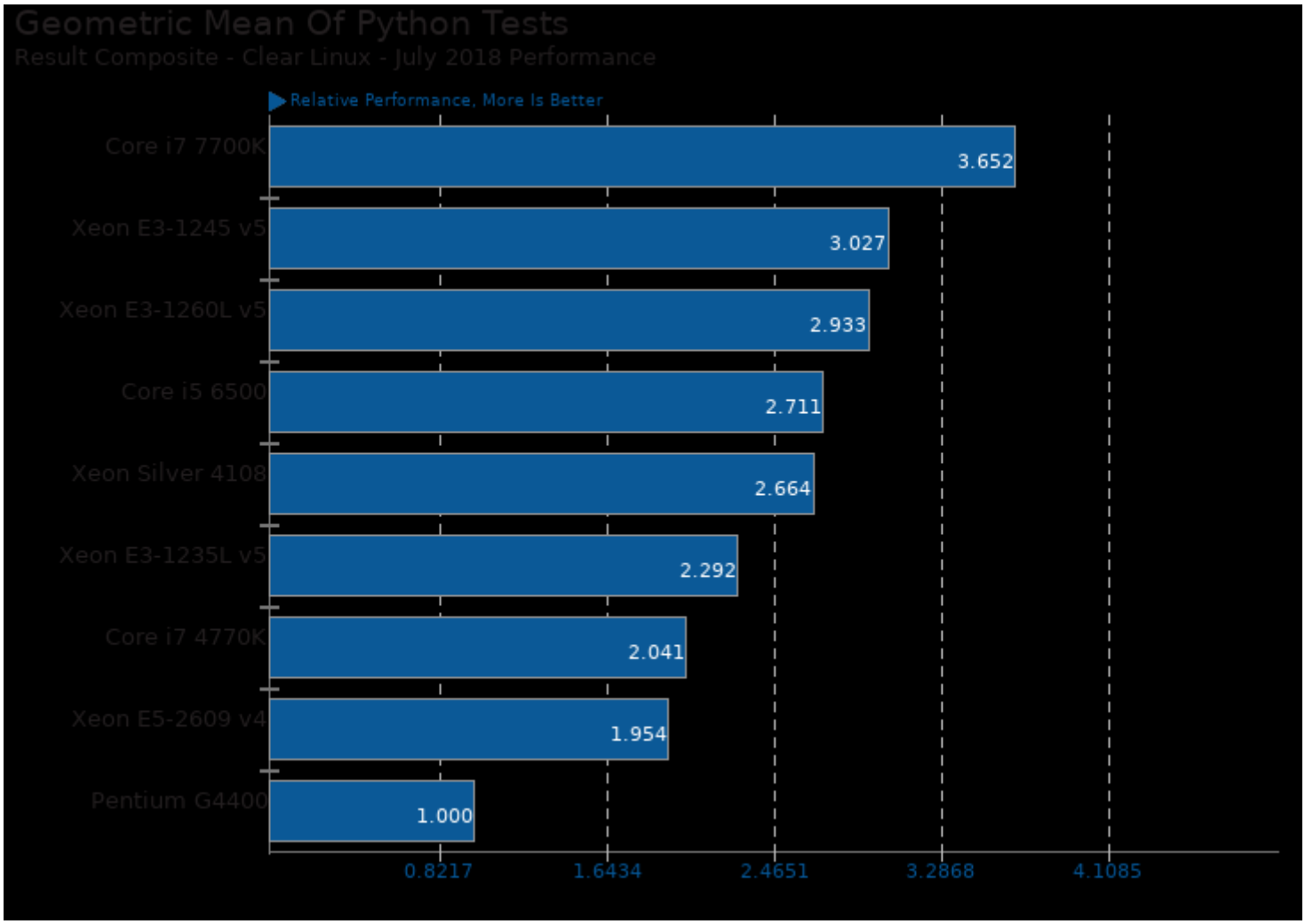
Geometric mean based upon tests: pts/c-ray, pts/n-queens, pts/x264, pts/smallpt, pts/ebizzy, pts/graphics-magick, pts/compress-7zip, pts/compress-zstd and pts/build-apache

Clear Linux - July 2018 Performance



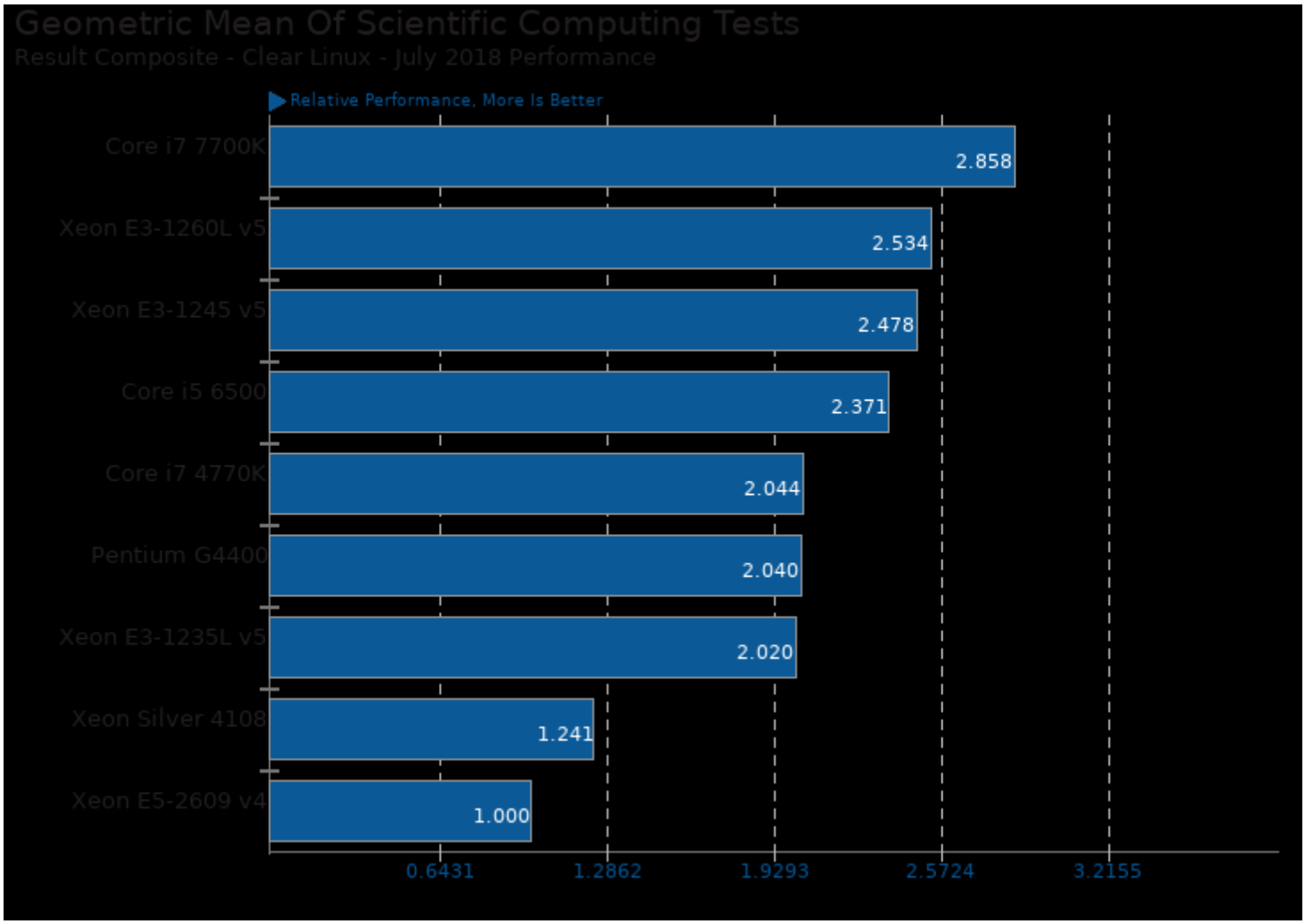
Geometric mean based upon tests: pts/git, pts/compress-zstd and pts/build-apache

Clear Linux - July 2018 Performance



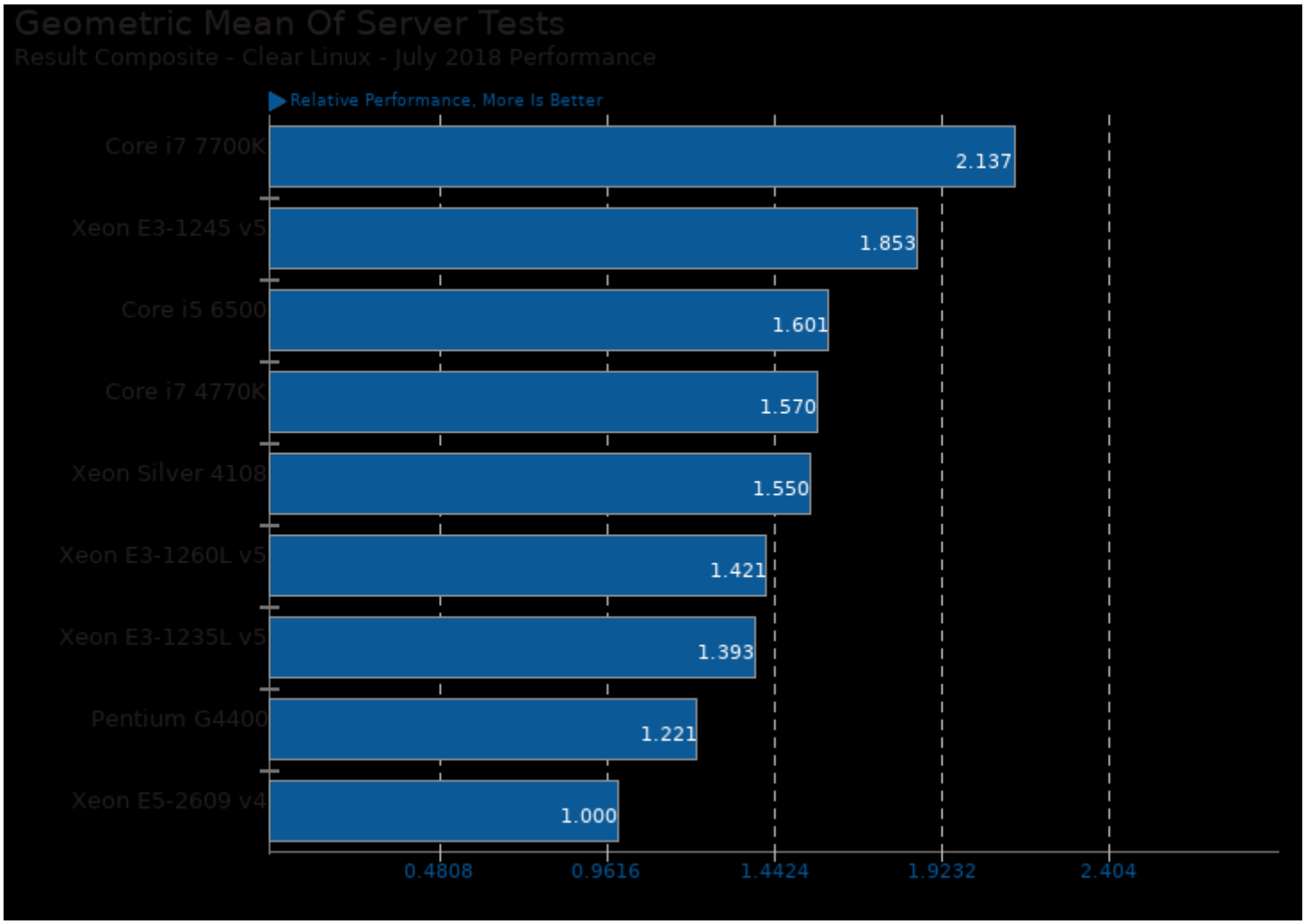
Geometric mean based upon tests: pts/caffe, pts/scikit-learn and pts/tensorflow

Clear Linux - July 2018 Performance



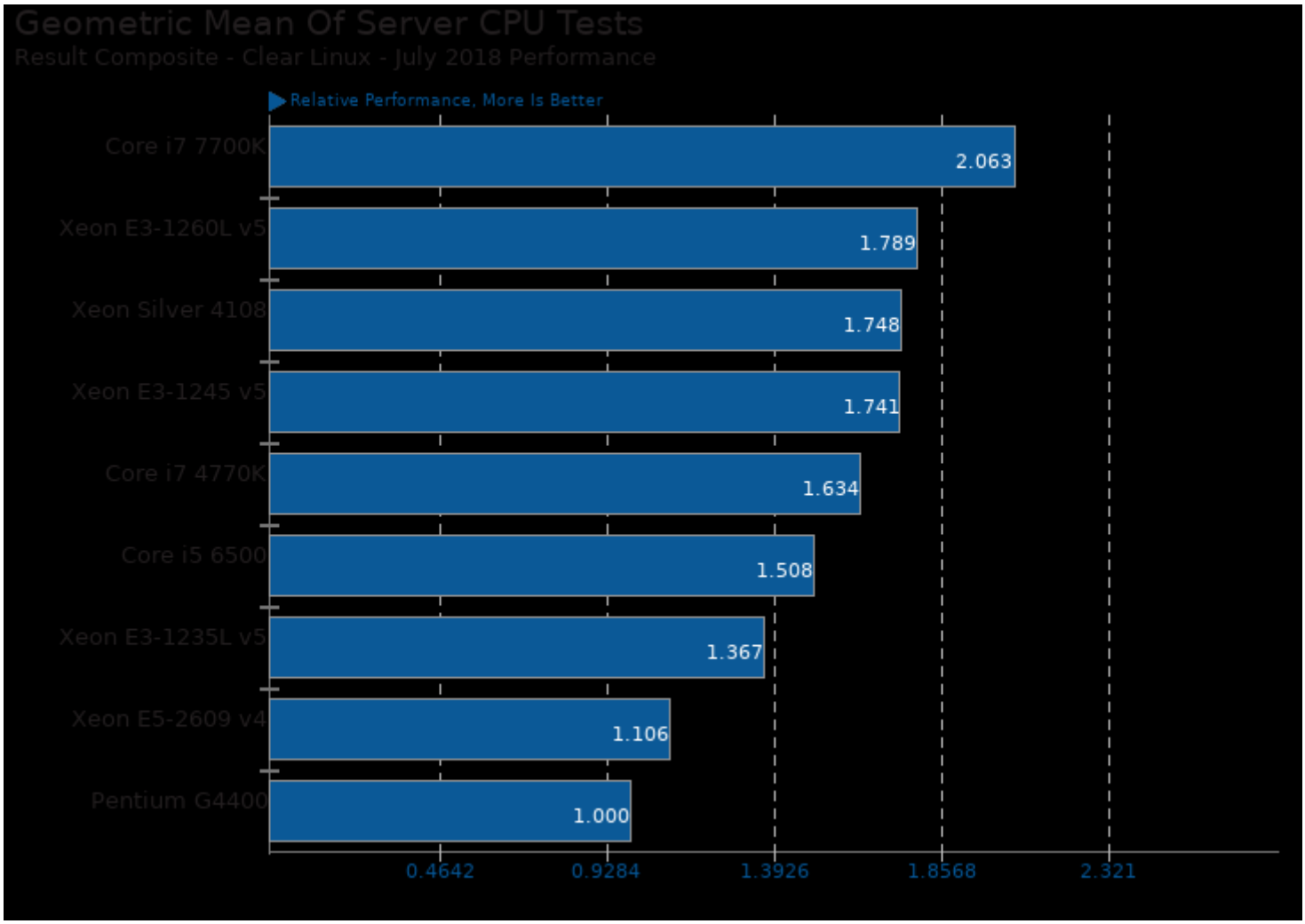
Geometric mean based upon tests: pts/ffte and pts/himeno

Clear Linux - July 2018 Performance



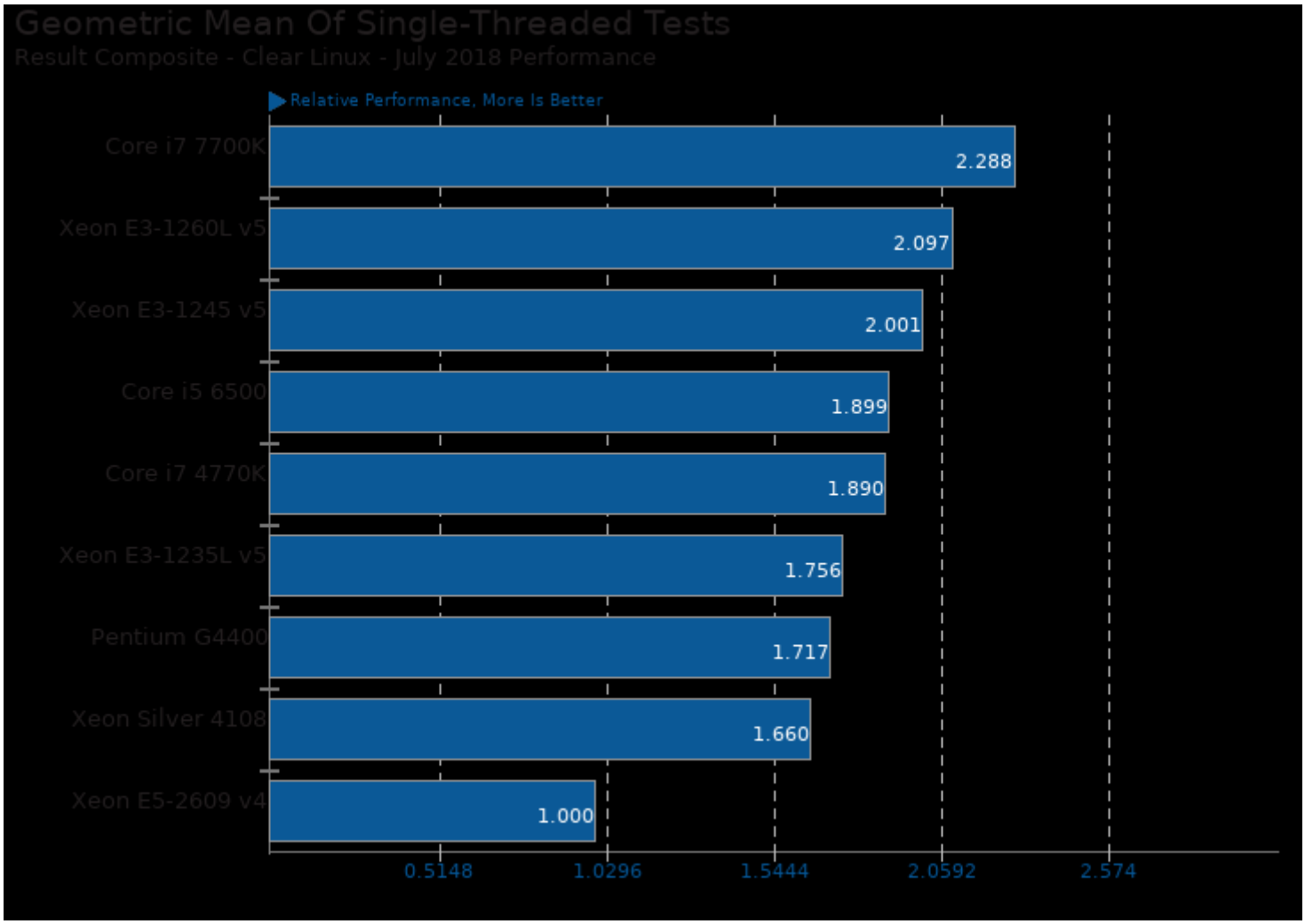
Geometric mean based upon tests: pts/apache, pts/nginx, pts/ebizzy, pts/redis, pts/phpbench, pts/openssl and pts/sqlite

Clear Linux - July 2018 Performance



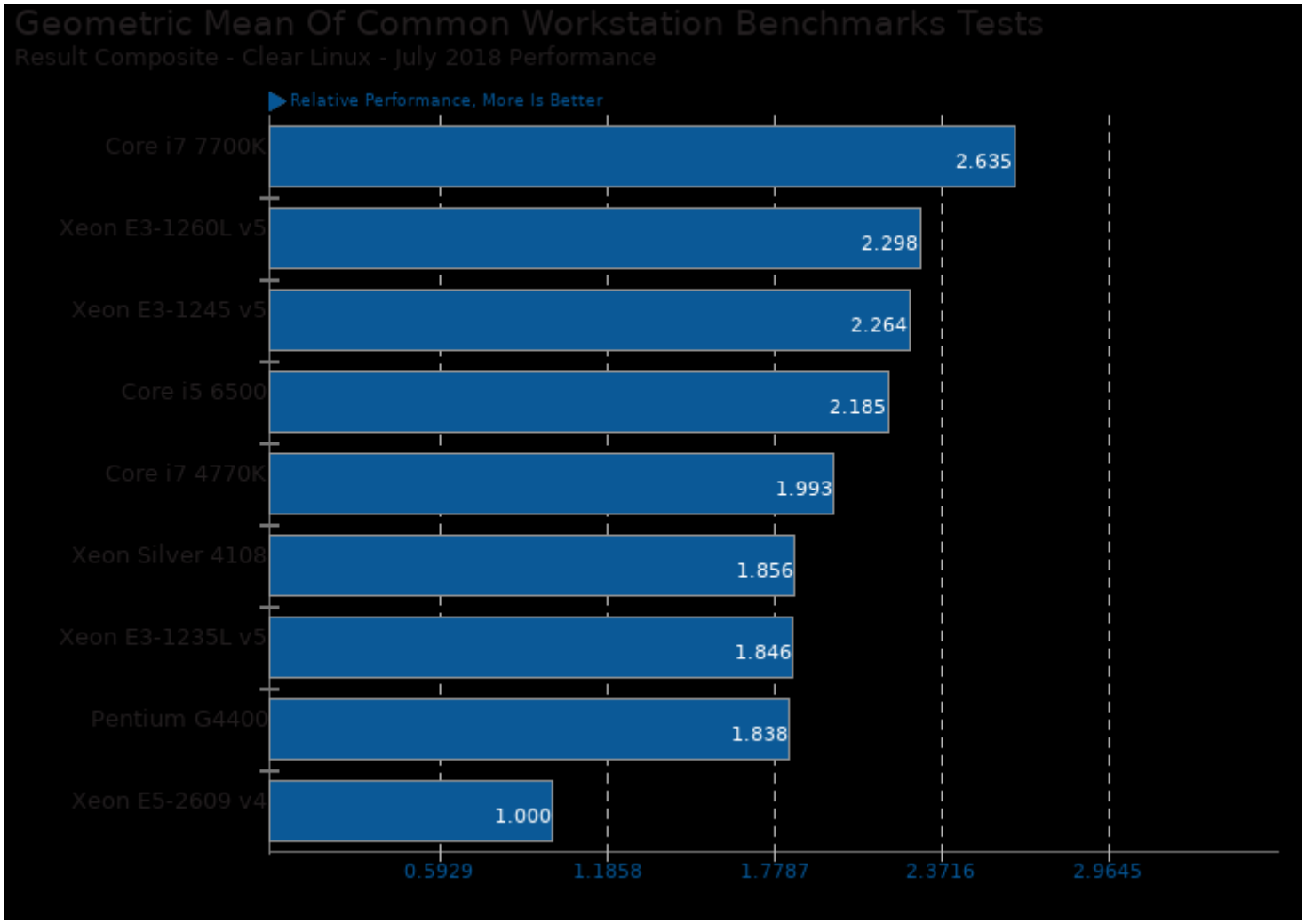
Geometric mean based upon tests: pts/x264, pts/himeno, pts/compress-7zip, pts/c-ray, pts/compress-zstd, pts/hackbench, pts/openssl, pts/glibc-bench, pts/redis, pts/phpbench and pts/scikit-learn

Clear Linux - July 2018 Performance



Geometric mean based upon tests: pts/cachebench, pts/scimark2, pts/encode-flac, pts/encode-mp3, pts/minion, pts/rbenchmark, pts/glibc-bench, pts/redis, pts/phpbench, pts/nginx and pts/git

Clear Linux - July 2018 Performance



Geometric mean based upon tests: pts/himeno and pts/git

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:37.