

www.phoronix-test-suite.com

40-Way Linux PC Benchmark Comparison

40-way Linux system comparison from the benchmark lab.

Automated Executive Summary

Xeon E3-1270 v5 had the most wins, coming in first place for 30% of the tests.

Based on the geometric mean of all complete results, the fastest (Xeon E3-1245 v5) was 4.237x the speed of the slowest (Phenom II X3 710).

Test Systems:

2 x Xeon E5540

Processor: 2 x Intel Xeon E5540 @ 2.53GHz (16 Cores), Motherboard: SUN ASSY X4170, Chipset: Intel 5520 I/O + ICH10R, Memory: 18 x 2048 MB DDR3-800MHz Hyundai, Disk: 2 x 147GB Seagate ST914603SSUN146G + 6 x 300GB H106030SDSUN300G, Graphics: ASPEED ASPEED Family, Network: Intel 82575EB Gigabit Connection

OS: Ubuntu 15.04, Kernel: 4.6.0-999-generic (x86_64) 20160506, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

A10-5800K

Processor: AMD A10-5800K APU @ 3.80GHz (4 Cores), Motherboard: Gigabyte F2A68HM-H, Chipset: AMD Family 15h, Memory: 1 x 8192 MB DDR3-1866MHz, Disk: 240GB OCZ ARC100, Graphics: ASUS AMD Radeon HD 7850 / R7 265 / R9 270 1024SP (300/150MHz), Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.6.0-999-generic (x86_64) 20160505, Desktop: Unity 7.4.0, Display Server: X Server 1.18.3, Display Driver: radeon 7.7.0, OpenGL: 4.1 Mesa 11.3.0-devel (git-a1f6988 2016-05-06 xenial-oibaf-ppa) Gallium 0.4, Compiler: GCC 5.3.1 20160413, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

A10-7800

Processor: AMD A10-7800 Radeon R7 12 Compute Cores 4C+8G @ 3.50GHz (4 Cores), Motherboard: MSI A78M-E35 (MS-7721) v6.0, Chipset: AMD Family 15h, Memory: 2 x 4096 MB DDR3-1333MHz Corsair CMZ16GX3M4A1600C9, Disk: 500GB Western Digital WD5000AZRX-0, Graphics: MSI AMD Radeon R7 1024MB (351MHz), Audio: AMD Kaveri HDMI/DP, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.6.0-999-generic (x86_64) 20160505, Desktop: Unity 7.4.0, Display Server: X Server 1.18.3, Display Driver: radeon 7.7.0, OpenGL: 4.1 Mesa 11.3.0-devel (git-a1f6988 2016-05-06 xenial-oibaf-ppa) Gallium 0.4, Compiler: GCC 5.3.1 20160413, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

A10-7850K #1

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Family 15h, Memory: 2 x 2048 MB DDR3-1600MHz, Disk: 120GB INTEL SSDSC2BW12, Graphics: ASUS AMD Radeon R7 512MB (351MHz), Audio: AMD Kaveri HDMI/DP, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.4.0-6-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: radeon 7.6.1, OpenGL: 4.1 Mesa 11.1.2 Gallium 0.4, Compiler: GCC 7.0.0 20160507, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran

Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

A10-7850K #2

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: Gigabyte F2A88XM-D3H, Chipset: AMD Family 15h, Memory: 2 x 4096 MB DDR3-1333MHz, Disk: 120GB KINGSTON SV300S3, Graphics: AMD Radeon R7 1024MB (351MHz), Audio: AMD Kaveri HDMI/DP, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.6.0-999-generic (x86_64) 20160506, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: radeon 7.6.1, OpenGL: 4.1 Mesa 11.2.0-devel (git-3c9ed20 2016-02-21 xenial-oibaf-ppa) Gallium 0.4, Compiler: GCC 5.3.1 20160211, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

A10-7870K

Processor: AMD A10-7870K Radeon R7 12 Compute Cores 4C+8G @ 3.90GHz (4 Cores), Motherboard: ASUS A88XM-E, Chipset: AMD Family 15h, Memory: 2 x 8192 MB DDR3-1333MHz, Disk: 250GB Samsung SSD 850, Graphics: ASUS AMD Radeon R7 1024MB (355MHz), Audio: AMD Kaveri HDMI/DP, Network: Realtek RTL8111/8168/8411

OS: Fedora 22, Kernel: 4.6.0-0.rc6.git2.1.fc25.x86_64 (x86_64) 20160504, Desktop: GNOME Shell 3.16.4, Display Server: X Server 1.17.4, Display Driver: radeon 7.5.0, OpenGL: 3.3 Mesa 10.6.9 (git-8957b69) Gallium 0.4, Compiler: GCC 5.3.1 20160406, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-redhat-linux --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,ada,go,lto --enable-libmpx --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-default-libstdcxx-abi=gcc4-compatible --with-isl --with-linker-hash-style=gnu --with-tune=generic
Disk Notes: CFQ / data=ordered,relatime,rw,seclabel
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
System Notes: SELinux: Enabled.

A6-7400K

Processor: AMD A6-7400K Radeon R5 6 Compute Cores 2C+4G @ 3.50GHz (2 Cores), Motherboard: ASRock FM2A58M-VG3+ R2.0, Chipset: AMD Family 15h, Memory: 2 x 4096 MB DDR3-2132MHz Kingston, Disk: 120GB OCZ VECTOR150, Graphics: AMD Radeon R5 1024MB (351MHz), Audio: AMD FCH Azalia, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 3.19.0-15-generic (x86_64), Compiler: GCC 7.0.0 20160507, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

A8-3870

Processor: AMD A8-3870 APU @ 3.00GHz (4 Cores), Motherboard: Gigabyte GA-A75M-UD2H, Chipset: AMD Family 12h Root Complex, Memory: 2 x 2048 MB 1333MHz, Disk: 120GB INTEL SSDSC2BW12, Graphics: Gigabyte AMD

Radeon HD 6550D 512MB (282MHz), Audio: AMD BeaverCreek HDMI Audio, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 4.6.0-999-generic (x86_64) 20160506, Desktop: Unity 7.3.2, Display Server: X Server 1.17.1, Display Driver: radeon 7.5.0, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

Core i3 2100

Processor: Intel Core i3-2100 @ 3.10GHz (4 Cores), Motherboard: MSI H61M-P31/W8 (MS-7788) v1.0, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 2 x 2048 MB DDR3-1067MHz OCZ3BE1600C8LV2G, Disk: 500GB Seagate ST500DM002-1BD14, Graphics: Intel HD 2000 (1100MHz), Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.6.0-999-generic (x86_64) 20160506, Display Server: X Server 1.17.3, Display Driver: intel 2.99.917, Compiler: GCC 5.3.1 20151219, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i3 2120

Processor: Intel Core i3-2120 @ 3.30GHz (4 Cores), Motherboard: BIOSTAR B75MU3B v5.0, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 1 x 4096 MB DDR3-1333MHz, Disk: 2000GB Seagate ST2000DM001-1E61, Graphics: Intel HD 2000 (1100MHz), Audio: Realtek ALC662 rev1, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.10, Kernel: 4.6.0-999-generic (x86_64) 20160506, Desktop: Unity, Display Server: X Server 1.17.2, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.0.2, Compiler: GCC 5.2.1 20151010, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i3 4130

Processor: Intel Core i3-4130 @ 3.40GHz (4 Cores), Motherboard: Intel DH87RL, Chipset: Intel 4th Gen Core DRAM, Memory: 2 x 1024 MB DDR3-1333MHz, Disk: 128GB TOSHIBA THNSNH12, Graphics: Intel Device 041e (1150MHz), Audio: Intel Xeon E3-1200 v3/4th, Network: Intel Connection I217-V

OS: Ubuntu 14.04, Kernel: 4.0.0-999-generic (x86_64) 20150310, Compiler: GCC 4.2.1 + Clang 3.9.0-svn267343-1~exp1, File-System: btrfs, Screen Resolution: 1024x768

Disk Notes: DEADLINE / relatime,rw,space_cache,ssd

Processor Notes: Scaling Governor: intel_pstate performance

Core i3 5010U

Processor: Intel Core i3-5010U @ 2.10GHz (4 Cores), Motherboard: Intel NUC5i3RYB, Chipset: Intel Broadwell-U-OPI, Memory: 8192MB, Disk: 256GB TS256GSSD370, Graphics: Intel Broadwell-U (900MHz), Audio: Intel Broadwell-U Audio, Network: Intel Connection + Intel Wireless 7265

OS: Ubuntu 15.04, Kernel: 4.1.0-999-generic (x86_64) 20150529, Desktop: Unity 7.3.2, Display Server: X Server 1.17.1, Display Driver: intel 2.99.917, Compiler: GCC 7.0.0 20160506, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: DEADLINE.

Core i5 2400S

Processor: Intel Core i5-2400S @ 3.30GHz (4 Cores), Motherboard: ASRock Z68 Pro3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 2 x 2048 MB DDR3-1600MHz, Disk: 250GB SAMSUNG HD253GJ, Graphics: Intel Gen6 (1100MHz), Audio: Intel 6 /C200, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 3.19.0-15-generic (x86_64), Compiler: GCC 7.0.0 20160507, File-System: xfs, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Disk Notes: DEADLINE / attr2,inode64,noquota,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i5 2500K

Processor: Intel Core i5-2500K @ 3.70GHz (4 Cores), Motherboard: ASRock H61M-VG3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 2048MB, Disk: 1000GB Western Digital WD10EZRX-00A, Graphics: Intel Gen6 (1100MHz), Audio: Realtek ALC662 rev1, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 4.1.0-999-generic (x86_64) 20150607, Compiler: GCC 4.2.1 + Clang 3.9.0-svn267343-1~exp1, File-System: ext4, Screen Resolution: 1024x768

Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i5 3470

Processor: Intel Core i5-3470 @ 3.20GHz (4 Cores), Motherboard: ECS H61H2-I3 v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 1 x 4096 MB DDR3-1600MHz, Disk: 1000GB Western Digital WD10EZEX-00K, Graphics: Intel Gen7 (1100MHz), Audio: VIA VT1705, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-32-generic (x86_64), Compiler: GCC 4.2.1 + Clang 3.9.0-svn267343-1~exp1, File-System: ext4, Screen Resolution: 1920x1080

Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

Core i5 4670

Processor: Intel Core i5-4670 @ 3.80GHz (4 Cores), Motherboard: MSI B85M-P33 (MS-7817) v1.0, Chipset: Intel 4th Gen Core DRAM, Memory: 2 x 4096 MB DDR3-1600MHz CMY8GX3M2B2133C9, Disk: 63GB SanDisk SDSSDP06, Graphics: Intel HD 4600 (1200MHz), Audio: Intel Xeon E3-1200 v3/4th, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.10, Kernel: 4.6.0-999-generic (x86_64) 20160506, Display Server: X Server 1.17.2, Display Driver: intel 2.99.917, Compiler: GCC 5.2.1 20151010, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i7 3770K

Processor: Intel Core i7-3770K @ 3.90GHz (8 Cores), Motherboard: ECS Z77H2-A2X v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8192MB, Disk: 160GB INTEL SSDSA2M160, Graphics: Intel HD 4000 (1150MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 4.1.0-999-generic (x86_64) 20150525, Desktop: Unity 7.3.2, Display Server: X Server 1.17.1, Display Driver: intel 2.99.917, Compiler: GCC 7.0.0 20160507, File-System: btrfs, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Disk Notes: DEADLINE / relatime,rw,space_cache,ssd
Processor Notes: Scaling Governor: intel_pstate powersave

Core i7 3960X

Processor: Intel Core i7-3960X @ 3.30GHz (12 Cores), Motherboard: Intel DX79SI, Chipset: Intel Xeon E5/Core, Memory: 8192MB, Disk: 120GB KINGSTON SV300S3, Graphics: Sapphire AMD Radeon HD 6770, Audio: Realtek ALC892, Network: Intel 82579LM Gigabit Connection

OS: Clear Linux 7820, Kernel: 4.5.2-202.native (x86_64), Display Server: X Server 1.18.3, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 800x600

Compiler Notes: --build=x86_64-generic-linux --disable-multiarch --disable-multilib --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-libmpx --enable-libstdcxx-pch --enable-lto --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-system-libunwind --with-tune=haswell
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq performance

Core i7 4600U

Processor: Intel Core i7-4600U @ 3.30GHz (4 Cores), Motherboard: CompuLab Intense-PC2 (IPC2), Chipset: Intel Haswell-ULT DRAM, Memory: 2 x 4096 MB DDR3-1600MHz, Disk: 120GB Micron_M500_MTFD, Graphics: Intel Haswell-ULT IGP (1100MHz), Audio: Intel Haswell-ULT HD Audio, Network: Intel Connection I218-LM + Intel Wireless 7260

OS: Ubuntu 16.04, Kernel: 4.6.0-999-generic (x86_64) 20160505, Desktop: Unity 7.4.0, Display Server: X Server 1.18.3, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.3.0-devel (git-a1f6988 2016-05-06 xenial-oibaf-ppa), Compiler: GCC 5.3.1 20160413, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx

--enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i7 4770K

Processor: Intel Core i7-4770K @ 3.90GHz (8 Cores), Motherboard: Gigabyte Z97-HD3, Chipset: Intel 4th Gen Core DRAM, Memory: 2 x 4096 MB DDR3-1600MHz Kingston, Disk: 128GB Crucial_CT128MX1, Graphics: Intel HD 4600 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Network: Realtek RTL8111/8168/8411

OS: Fedora 22, Kernel: 4.6.0-0.rc6.git2.1.fc25.x86_64 (x86_64) 20160504, Display Server: X Server 1.17.4, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 10.6.9 (git-8957b69), Compiler: GCC 5.3.1 20160406, File-System: btrfs, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-redhat-linux --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,ada,go,lto --enable-libmpx --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-default-libstdcxx-abi=gcc4-compatible --with-isl --with-linker-hash-style=gnu --with-tune=generic
Disk Notes: CFQ / relatime,rw,seclabel,space_cache,ssd,subvol=/root,subvolid=257
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: SELinux: Enabled.

Core i7 4790K

Processor: Intel Core i7-4790K @ 4.40GHz (8 Cores), Motherboard: Gigabyte Z97-HD3P, Chipset: Intel 4th Gen Core DRAM, Memory: 2 x 8192 MB DDR3-1600MHz, Disk: 120GB OCZ TRION100, Graphics: Intel HD 4600 (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.6.0-999-generic (x86_64) 20160506, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.0.7, Compiler: GCC 5.3.1 20151219, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i7 4960X

Processor: Intel Core i7-4960X @ 4.00GHz (12 Cores), Motherboard: MSI X79MA-GD45 (MS-7738) v1.0, Chipset: Intel Xeon E7 v2/Xeon, Memory: 2 x 4096 MB DDR3-1600MHz, Disk: 1000GB Seagate ST1000DX001-1CM1, Graphics: AMD FirePro V4800 1024MB (157/300MHz), Audio: Intel C600/X79, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.18.0-999-generic (x86_64) 20141203, Compiler: GCC 4.2.1 + Clang 3.9.0-svn267343-1~exp1, File-System: btrfs, Screen Resolution: 1024x768

Disk Notes: DEADLINE / relatime,rw,space_cache
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: DEADLINE.

Core i7 5775C

Processor: Intel Core i7-5775C @ 3.70GHz (8 Cores), Motherboard: MSI Z97-G45 GAMING (MS-7821) v1.0, Chipset: Intel Broadwell-U- DMI, Memory: 2 x 8192 MB DDR3-1800MHz, Disk: 120GB CT120BX100SSD1, Graphics: Intel

Broadwell-U (1150MHz), Audio: Intel Broadwell-U Audio, Network: Qualcomm Atheros Killer E220x Gigabit

OS: Ubuntu 16.04, Kernel: 4.6.0-999-generic (x86_64) 20160507, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.3.0-devel (git-4b7e219 2016-02-24 xenial-oibaf-ppa), Compiler: GCC 5.3.1 20160222, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: DEADLINE.

Core i7 5960X

Processor: Intel Core i7-5960X @ 3.50GHz (16 Cores), Motherboard: Gigabyte X99-UD4-CF, Chipset: Intel Xeon E7 v3/Xeon, Memory: 4 x 4096 MB 2133MHz CMK16GX4M4A2666C16, Disk: 120GB INTEL SSDSC2BW12, Graphics: AMD FirePro V7800 2048MB, Audio: Realtek ALC1150, Network: Intel Connection

OS: Debian testing, Kernel: 4.4.0-1-amd64 (x86_64), Display Server: X Server 1.18.2, Display Driver: modesetting 1.18.2, Compiler: GCC 5.3.1 20160323, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i586 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: CFQ / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i7 5960X Haswell-E

Processor: Intel Core i7-5960X @ 3.50GHz (16 Cores), Motherboard: ASRock X99 Extreme3, Chipset: Intel Xeon E5 v3/Core, Memory: 4 x 4096 MB 2400MHz, Disk: 256GB CORSAIR FORCE LX, Graphics: NVIDIA GeForce GTX 770 2048MB, Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 14.10, Kernel: 4.6.0-999-generic (x86_64) 20160506, Desktop: Xfce 4.10, Display Server: X Server 1.16.0, Display Driver: nouveau 1.0.11, OpenGL: 3.3 Mesa 10.3.0 Gallium 0.4, Compiler: GCC 4.9.1, File-System: btrfs, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / relatime,rw,space_cache,ssd,subvol=/@,subvolid=257
Processor Notes: Scaling Governor: intel_pstate powersave

FX-8150

Processor: AMD FX-8150 Eight-Core @ 3.60GHz (8 Cores), Motherboard: ASUS M5A78L-M LX PLUS, Chipset: AMD RS780 + SB7x0/SB8x0/SB9x0, Memory: 1 x 8192 MB 1600MHz, Disk: 120GB Samsung SSD 840, Graphics: AMD FirePro V5800 1024MB (157/300MHz), Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.10, Kernel: 4.6.0-999-generic (x86_64) 20160506, Desktop: Unity, Display Server: X Server 1.17.2, Display Driver: radeon 7.5.99, OpenGL: 3.3 Mesa 11.0.2 Gallium 0.4, Compiler: GCC 5.2.1 20151010, File-System: btrfs, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / relatime,rw,space_cache,ssd,subvol=/@,subvolid=257
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

FX-8350

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 2 x 4096 MB DDR3-2133MHz, Disk: 1000GB Western Digital WD10EARS-00M, Graphics: AMD FirePro V3800 512MB (157/200MHz), Audio: Realtek ALC889, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-40-generic (x86_64), Compiler: GCC 4.2.1 + Clang 3.9.0-svn267343-1~exp1, File-System: ext4, Screen Resolution: 1024x768

Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
System Notes: Disk Scheduler: DEADLINE.

FX-8370

Processor: AMD FX-8370 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASRock 990FX Killer, Chipset: AMD RD890 bridge, Memory: 2 x 4096 MB DDR3-2400MHz, Disk: 120GB SPCC Solid State, Graphics: AMD FirePro V8700 1024MB (750/850MHz), Audio: Realtek ALC1150, Network: Qualcomm Atheros Killer E220x Gigabit

OS: Ubuntu 15.10, Kernel: 4.6.0-999-generic (x86_64) 20160506, Desktop: Unity, Display Server: X Server 1.17.2, Display Driver: radeon 7.5.99, OpenGL: 3.3 Mesa 11.0.2 Gallium 0.4, Compiler: GCC 5.2.1 20151010, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

FX-8370E

Processor: AMD FX-8370E Eight-Core @ 3.30GHz (8 Cores), Motherboard: ASUS M5A99FX PRO R2.0, Chipset: AMD RD890 bridge, Memory: 2 x 4096 MB DDR3-1866MHz, Disk: 120GB Samsung SSD 850, Graphics: AMD FirePro V5900 2048MB (250/500MHz), Audio: AMD SBx00 Azalia, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 3.19.0-15-generic (x86_64), Compiler: GCC 7.0.0 20160507, File-System: btrfs, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Disk Notes: DEADLINE / relatime,rw,space_cache,ssd
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

Pentium G3258

Processor: Intel Pentium G3258 @ 3.20GHz (2 Cores), Motherboard: Gigabyte H97M-D3H, Chipset: Intel 4th Gen Core DRAM, Memory: 2 x 4096 MB DDR3-1400MHz CMY8GX3M2A2400C11, Disk: 250GB SAMSUNG HD253GJ, Graphics: Intel HD (1100MHz), Audio: Intel Xeon E3-1200 v3/4th, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.10, Kernel: 4.6.0-999-generic (x86_64) 20160505, Desktop: Unity, Display Server: X Server 1.17.2, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.3.0-devel (git-a1f6988 2016-05-06 wily-oibaf-ppa), Compiler: GCC 5.2.1 20151010, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Pentium G4400

Processor: Intel Pentium G4400 @ 3.30GHz (2 Cores), Motherboard: MSI B150M MORTAR (MS-7972) v2.0, Chipset: Intel Skylake, Memory: 8192MB, Disk: 120GB Samsung SSD 850, Graphics: Intel Device 1902 (1000MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Clear Linux 7820, Kernel: 4.5.2-202.native (x86_64), Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-generic-linux --disable-multiarch --disable-multilib --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-libmpx --enable-libstdcxx-pch --enable-lto --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-system-libunwind --with-tune=haswell
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq performance

Phenom II X3 710

Processor: AMD Phenom II X3 710 @ 2.60GHz (3 Cores), Motherboard: MSI 890GXM-G65 (MS-7642) v1.0, Chipset: AMD RS880, Memory: 2 x 8192 MB 667MHz, Disk: 250GB Seagate ST3250310AS, Graphics: MSI AMD Radeon HD 4290 320MB (500/667MHz), Audio: AMD SBx00 Azalia, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 3.19.0-15-generic (x86_64), Compiler: GCC 7.0.0 20160507, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

Xeon E3-1231 v3

Processor: Intel Xeon E3-1231 v3 @ 3.80GHz (8 Cores), Motherboard: Gigabyte H81M-S1, Chipset: Intel Xeon E3-1200 v3 DRAM, Memory: 2 x 8192 MB DDR3-1600MHz, Disk: 120GB Samsung SSD 850, Graphics: Sapphire AMD Radeon HD 4550, Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Debian testing, Kernel: 4.3.0-1-amd64 (x86_64), Display Server: X Server 1.18.1, Display Driver: modesetting 1.18.1, Compiler: GCC 5.3.1 20160307, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i586 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: CFQ / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Xeon E3-1235L v5

Processor: Intel Xeon E3-1235L v5 @ 2.00GHz (4 Cores), Motherboard: ASRockRack C236M WS, Chipset: Intel Skylake, Memory: 8192MB, Disk: 120GB OCZ TRION150, Graphics: Intel Skylake (1000MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Clear Linux 7820, Kernel: 4.5.2-202.native (x86_64), Display Server: X Server 1.18.3, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-generic-linux --disable-multiarch --disable-multilib --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-libmpx --enable-libstdcxx-pch --enable-lto --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-system-libunwind --with-tune=haswell
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq performance

Xeon E3-1245 v5

Processor: Intel Xeon E3-1245 v5 @ 3.50GHz (8 Cores), Motherboard: Supermicro X11SAE-M v1.01, Chipset: Intel Skylake, Memory: 32768MB, Disk: 120GB Samsung SSD 850, Graphics: Intel Device 191d (1150MHz), Audio: Realtek ALC888-VD, Network: Intel Connection

OS: Clear Linux 7820, Kernel: 4.5.2-202.native (x86_64), Display Server: X Server 1.18.3, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-generic-linux --disable-multiarch --disable-multilib --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-libmpx --enable-libstdcxx-pch --enable-lto --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-system-libunwind --with-tune=haswell
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq performance

Xeon E3-1260L v5

Processor: Intel Xeon E3-1260L v5 @ 2.90GHz (8 Cores), Motherboard: ASRock E3V5 WS, Chipset: Intel Skylake, Memory: 8192MB, Disk: 120GB INTEL SSDSC2BW12, Graphics: XFX NVIDIA GeForce GT 220, Audio: Realtek ALC892, Network: Intel Connection

OS: Clear Linux 7820, Kernel: 4.5.2-202.native (x86_64), Display Server: X Server 1.18.3, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-generic-linux --disable-multiarch --disable-multilib --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-libmpx --enable-libstdcxx-pch --enable-lto --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-system-libunwind --with-tune=haswell
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq performance

Xeon E3-1270 v5

Processor: Intel Xeon E3-1270 v5 @ 4.00GHz (8 Cores), Motherboard: ASUS E3 PRO GAMING V5, Chipset: Intel Sky Lake, Memory: 2 x 4096 MB DDR4-2133MHz, Disk: 120GB Toshiba MKNSSDEC120GB, Graphics: AMD Radeon HD 5750, Audio: Realtek ALC1150, Network: Intel Connection

OS: Debian testing, Kernel: 4.4.0-1-amd64 (x86_64), Display Server: X Server 1.18.3, Display Driver: modesetting 1.18.3, Compiler: GCC 5.3.1 20160409 + Clang 3.6.2-3, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i586 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new

--with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: CFQ / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Xeon E3-1280 v5

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB Samsung SSD 850, Graphics: NVIDIA GeForce GTX 680 2048MB (324/324MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-22-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.3, Display Driver: NVIDIA 364.19, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0, Vulkan: 1.0.8, Compiler: GCC 5.3.1 20160413, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Xeon E5-1680 v3

Processor: Intel Xeon E5-1680 v3 @ 3.80GHz (16 Cores), Motherboard: ASUS X99-A, Chipset: Intel Xeon E5 v3/Core, Memory: 4 x 4096 MB 2400MHz, Disk: 120GB OCZ ARC100, Graphics: eVGA NVIDIA GeForce GT 740 1024MB, Audio: Intel C610/X99, Network: Intel Connection

OS: Ubuntu 15.04, Kernel: 3.19.0-49-generic (x86_64), Compiler: GCC 7.0.0 20160507, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Xeon E5-2687W v3

Processor: Intel Xeon E5-2687W v3 @ 3.50GHz (20 Cores), Motherboard: MSI X99S SLI PLUS (MS-7885) v1.0, Chipset: Intel Xeon E7 v3/Xeon, Memory: 16384MB, Disk: PNY CS1211 120GB + 80GB INTEL SSDSCKGW08, Graphics: AMD FirePro V7900 2048MB, Audio: Realtek ALC892, Monitor: ASUS PB278, Network: Intel Connection

OS: Debian testing, Kernel: 4.5.0-1-amd64 (x86_64), Display Server: X Server 1.18.3, Display Driver: modesetting 1.18.3, OpenGL: 3.3 Mesa 11.1.3 Gallium 0.4, Compiler: GCC 5.3.1 20160409, File-System: ext4, Screen Resolution: 2560x1440

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i586 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: CFQ / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

Core i5 3210M

Processor: Intel Core i5-3210M @ 3.10GHz (4 Cores), Motherboard: Sony VAIO, Chipset: Intel 3rd Gen Core DRAM, Memory: 2 x 4096 MB DDR3, Disk: 256GB Crucial_CT256MX1, Graphics: Intel Ivybridge Mobile 1536MB, Audio: Realtek ALC275, Network: Realtek RTL8111/8168/8411 + Intel Centrino Advanced-N 6235

OS: Ubuntu 16.04, Kernel: 4.4.0-51-generic (x86_64), Display Server: X Server 1.18.4, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.2.0, Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1366x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,noatime,nodiratime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

FX-8350 on Gigabyte 990FXA UD3

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: Gigabyte GA-990FXA-UD3, Chipset: AMD RD9x0/RX980, Memory: 16384MB, Disk: 4001GB Western Digital WD40EZRX-00S + 240GB ADATA SX930 + 512GB ADATA SP610 + 2000GB Western Digital WD20EARX-00P + 1500GB Western Digital WD15EARS-00M, Graphics: Gigabyte AMD Radeon R9 380X / R9 M295X 4096MB, Audio: Realtek ALC889, Monitor: ASUS PB278, Network: Realtek RTL8111/8168/8411 + Intel Wireless 7260

OS: Arch Linux, Kernel: 4.8.10-1-ARCH (x86_64), Desktop: Xfce 4.12, OpenGL: 4.3 Mesa 13.0.1 Gallium 0.4, Compiler: GCC 6.2.1 20160830, File-System: ext4, Screen Resolution: 2560x1440

Kernel Notes: amdgpu.powerplay=1
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

40-Way Linux PC Benchmark Comparison

	2xXeon E5540	AK1000-5788005KK	AAK1000-7748700KK#1#	AAK1600-7348700K	ACorei3-2240	ACorei3-2350	ACorei5-2500K	ACorei5-2550	ACorei5-2300	ACorei5-3470	ACorei5-3570K	ACorei5-3330	ACorei5-4670K	ACorei5-4430	ACorei7-3960X	ACorei7-4770K	ACorei7-4790K	ACorei7-4960X	ACorei7-5960X	ACorei7-5930K	ACorei7-5820K	ACorei7-5775C	ACorei7-5557U	ACorei7-5500U	ACorei7-5775C	FX-8150	FX-8350	FX-8370	FX-8370E	PGG34258	PPentium-G3258	PPentium-G3240	PPentium-G3220	XeonE3-1230v3	XeonE3-1245v3	XeonE3-1245Lv3	XeonE3-1246Lv3	XeonE3-1270v3	XeonE3-1275v3	XeonE3-1280v3	XeonE3-1265Lv3	XeonE3-1268Lv3	XeonE3-1275Wv3	Core-m3-6Y30	FX-8350 Gigabyte 990FXA UD3
SQLite - D.T.D (sec)	216.3	139.8	120.4	98.3	75.6	66.4	56.2	47.1	41.0	38.4	37.8	34.3	30.1	29.8	26.6	25.6	25.5	24.1	23.3	22.6	22.6	21.8	21.2	20.7	20.6	20.1	19.8	19.7	19.4	19.3	19.2	18.8	18.4	18.3	18.1	17.9	17.8	17.7	17.6	17.5	17.4	17.3	17.2	16.8
Normalized (%)	90.7%	66.0%	69.5%	85.2%	96.6%	98.8%	100.0%	94.6%	98.3%	100.0%	100.0%	96.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Standard Deviation	3.1%	0.1%	14.9%	1.2%	0%	4.1%	0.3%	0.3%	25.2%	11.8%	3.1%	0.3%	2.1%	0.5%	6.9%	3.3%	9.7%	0.3%	9.5%	9.1%	2%	1.7%	0.2%	1%	0.2%	2%	0.4%	2%	19.4%	1.4%	11.6%	1%	3.7%	0.7%	0.4%	0.2%	2.2%	0.5%	0.3%	0.7%	0.5%
LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein (Loop Tim	61.32							**85.23**		46.90	41.05			37.11	**32.12**	32.57					32.30			36.94	55.03	44.83	52.08		40.82								52.06		37.33		
Normalized	52.38%							37.69%		68.49%	78.25%			86.55%	100%	98.62%					99.44%			86.95%	58.37%	71.65%	61.67%		78.69%								61.7%		86.04%		
Standard Deviation	0.4%							1%		0.7%	0.8%			0.6%	0.2%	0.2%					0.2%			0.5%	0.6%	0.2%	1.1%		0.7%								0.9%		0.2%		

40-Way Linux PC Benchmark Comparison

FFT	3	3	3	4	3	4	3	3	4	4	5	3	4	4	5	5	5	5	4	5	6	5	5	5	5	3	3	3	3	4		**3**	5	6	7	**8**	7	3	5	5	4	4
E -	8	9	7	1	9	2	9	6	3	6	2	3	6	8	4	7	8	0	9	9	6	4	7	2	3	9	7	9	6	8		**1**	7	2	9	**0**	8	7	8	2	5	0
N.6.	4	4	6	6	8	3	1	5	6	8	7	0	8	6	4	6	2	0	4	1	6	2	7	9	1	8	5	1	9	5		**6**	5	7	4	**8**	3	9	0	2	4	2
1.C.	6	4	4	2	0	3	0	6	4	0	3	8	5	7	4	4	2	9	3	0	0	9	6	9	9	5	6	9	2	3		**5**	4	1	3	**4**	4	4	0	6	8	2
F.R																																										
(MF																																										
LO																																										
PS)																																										
Nor	4	4	4	5	4	5	4	4	5	5	6	4	5	6	6	7	7	6	6	7	8	6	7	6	6	4	4	4	4	6		3	7	7	9	1	9	4	7	6	5	4
mali	7	8	6	1	9	2	8	5	3	7	5	0	7	0	7	1	2	1	1	3	2	7	1	5	5	9	6	8	5	0		9	1	7	8	0	6	6	1	4	6	9
zed	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		.	.	.	.	0	.	.	.	.	.	.
	5	7	5	4	2	3	3	2	9	8	2	9	9	2	3	3	0	9	1	1	3	1	4	5	8	3	4	4	6	0		1	1	5	2	%	9	9	7	6	2	7
	7	9	6	8	3	6	6	3	8	9	3	2	5	%	5	%	2	6	4	%	8	6	5	4	%	%	6	8	7	3		5	7	7	5		%	3	5	5	6	5
	%	%	%	%	%	%	%	%	%	%	%	%	%		%		%	%	%		%	%	%	%			%	%	%	%		%	%	%	%			%	%	%	%	%
Stan	1	1	1	0	1	1	0	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	2	3	5	2	0		0	0	0	0	0	0	3	0	1	0	1
dard	.	%	.	.	%	.	.	.	.	%	%	.	.	.	.	.	%	.	.	.	.	.	.	%	.	.	.	.	2	.		.	%	.	.	.	.	%	.	.	.	.
Devi	3		5	5		8	7	8	8			1	7	1	3	1		3	1	1	3	2	2		1	9	3	5	.	1		6		1	5	2	1		2	6	1	7
ation	%		%	%		%	%	%	%			%	%	%	%	%		%	%	%	%	%	%		%	%	%	%	7	%		%		%	%	%	%		%	%	%	%
																													%													
Him	1	7	7	9	8	7	8	5	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	6	6	6	7	1	2	**5**	1	2	2	2	**2**	2	2	1	1	6
eno	1	1	9	0	3	5	4	4	2	3	0	2	3	2	3	8	5	4	6	7	1	3	1	7	7	8	0	9	1	5	1	**0**	9	0	5	6	**6**	2	0	7	3	7
Ben	3	2	6	7	0	3	9	2	7	1	8	0	7	6	3	6	6	1	1	4	6	7	1	9	8	1	7	4	9	9	5	**5**	1	9	6	0	**3**	3	2	7	1	1
ch	5	.	.	.	.	.	.	.	5	8	4	7	2	4	6	9	3	6	3	7	1	1	6	4	1	.	.	.	.	2	3	**.**	9	3	8	5	**9**	1	3	6	6	.
mar		5	8	1	5	0	6	8																		5	2	2	0			**2**										8
k -		3	3	7	7	2	6	5																		6	6	3	4			**0**										7
P.P																																										
.S																																										
(MF																																										
LO																																										
PS)																																										
Nor	4	2	3	3	3	2	3	2	4	4	4	4	5	4	5	7	5	5	6	6	8	5	8	6	6	2	2	2	2	6	8	1	7	7	9	9	1	8	7	6	4	2
mali	3	7	0	4	1	8	2	0	8	9	1	5	2	7	0	0	9	3	1	6	1	1	0	7	7	5	3	6	7	0	1	9	2	9	7	8	0	4	6	7	9	5
zed	.	%	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.	.	.	.	.
	0		2	3	4	5	2	5	3	9	1	7	0	9	6	8	2	6	1	2	9	9	1	9	5	8	0	3	2	3	6	1	7	3	3	7	%	5	6	3	8	4
	3		%	8	8	4	%	7	3	6	%	3	1	1	3	4	3	5	3	1	1	7	8	8	2	3	2	1	5	5	2	5	3	2	1	5		5	6	%	7	6
	%			%	%	%		%	%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%	%		%	%
Stan	0	0	4	3	7	1	2	3	3	0	0	0	0	0	0	0	3	0	0	4	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5	0	2	1	0	0	0
dard	.	.	.	%	.	1	.	.	.	.	.	.	.	.	.	.	.	%	.	.	.	.	.	.	.	.	.	.	.	.	.	.	%	.	.	.	.	%	.	.	.	.
Devi	7	5	4		7	.	7	5	4	2	6	5	3	2	2	4	3		1	8	5	2	3	1	3	3	1	4	8	1	9	4		4	7	6	4		9	3	4	4
ation	%	%	%		%	6	%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%		%	%	%	%		%	%	%	%
						%																																				

40-Way Linux PC Benchmark Comparison

Timed Linux Kernel Compilation - Time To Compile (sec)	106.90	248.16	238.02	277.09	221.22	212.04	**645.54**	259.99	291.86	323.39		426.43	268.91			141.83	161.35	111.08	242.05	107.36	86.23		97.32	61.76	68.70	173.17		127.70	175.45	321.40	273.83	415.57	101.50	162.89	101.11	107.76	86.44	93.32	71.13	**53.14**	317.25	141.06
Normalized	49.71%	21.41%	22.33%	19.18%	24.02%	25.06%	8.23%	20.44%	18.21%	16.43%		12.46%	19.76%			37.47%	32.93%	47.84%	21.95%	49.5%	61.63%		54.6%	86.04%	77.35%	30.69%		41.61%	30.29%	16.53%	19.41%	12.79%	52.35%	32.62%	52.56%	49.31%	61.38%	56.94%	74.71%	100%	16.75%	37.67%
Standard Deviation	2.13%	0.3%	1%	0.6%	1%	0.7%	0.4%	0.8%	0.7%	0.5%		0.4%	0.7%			3.3%	1%	2%	1.4%	1.3%	1.5%		1.7%	1.9%	2.5%	4.7%		1.6%	1.2%	1.3%	0.5%	1%	1%	0.7%	1.2%	0.8%	1.5%	1.6%	2.8%	2%	1.8%	1.7%
C-Ray - Total Time (sec)	18.39	54.12	57.06	53.35	53.36	50.76	**112.84**	43.22	70.08	66.13	61.46	79.64	45.71	54.58	48.54	24.54	28.67	22.40	56.17	28.80	19.15	23.05	22.61	12.99	12.96	32.21	34.13	25.19	30.35	50.13	64.38	69.41	34.18	38.80	23.39	24.74	19.14	26.04	11.15	**10.72**	72.40	25.50
Normalized	58.29%	19.81%	18.79%	20.09%	20.09%	21.12%	9.5%	24.8%	15.3%	16.21%	17.44%	13.46%	23.45%	19.64%	22.08%	43.68%	37.39%	47.86%	19.08%	47.02%	55.98%	46.51%	47.41%	82.53%	82.72%	33.28%	32.07%	42.56%	35.32%	19.44%	23.06%	15.79%	45.66%	28.36%	43.96%	43.36%	56.05%	41.15%	95.8%	100%	14.81%	42.04%

Stan	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
dard	.	.	.	.	.	.	.	.	.	.	.	%	.	.	.	.	.	.	%	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	%	.	%	.	%	.
Devi	1	5	1	2	8	1	1	8	7	9	1		1	2	1	1	2	5		1	1	1	1	5	3	2	1	1	1	1	1	1	1	3	2	3		1		2		1
ation	%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%		%		%
FL	1	9	1	1	1	1	1	1	9	9	8	1	8	1	8	5	6	9	6	5	5	8	6	6	6	9	1	1	9	7	6	**1**	5	6	5	5	**5**	5	6	6	8	1
AC	1	.	1	0	1	0	1	3	.	.	.	0	.	0	.	.	.	.	.	.	.	.	.	.	.	.	1	0	.	.	.	**5**	.	.	.	.	**.**	.	.	.	.	0
Au	.	7	.	.	.	.	.	.	7	2	8	.	6	.	7	8	6	4	8	7	1	9	0	7	8	5	.	.	4	9	6	**.**	9	6	1	1	**0**	4	0	9	7	.
dio	7	7	4	5	0	3	1	1	9	1	0	5	4	5	2	9	9	9	7	7	4	4	4	0	9	7	7	0	4	4	4	**3**	1	2	7	1	**1**	8	2	2	3	1
Enc	6		8	5	8	2	8	1				0		6													5	4				**6**										5
odi																																										
ng -																																										
WA																																										
V																																										
To																																										
FL																																										
AC																																										
(se																																										
c)																																										
Nor	4	5	4	4	4	4	4	3	5	5	5	4	5	4	5	8	7	5	7	8	9	5	8	7	7	5	4	4	5	6	7	3	8	7	9	9	1	9	8	7	5	4
mali	2	1	3	7	5	8	4	8	1	4	6	7	7	7	7	5	4	2	2	6	7	6	2	4	2	2	2	9	3	3	5	2	4	5	6	8	0	1	3	2	7	9
zed	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.	.	.	.	.
	6	2	6	4	2	5	8	2	1	4	9	7	9	4	4	0	8	7	9	8	4	0	9	7	7	3	6	9	0	1	4	6	7	6	9	0	%	4	2	4	3	3
	%	8	4	9	2	5	1	2	7	%	3	1	9	4	5	6	9	9	3	3	7	4	5	8	1	5	4	%	7	%	5	2	7	8	1	4		2	2	%	9	6
		%	%	%	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%		%	%	%	%	%	%		%	%		%	%
Stan	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	5	2	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	1	1	0	0
dard	%	.	.	.	.	.	.	.	.	.	.	.	.	.	%	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	%	.	.	.	.	.	.	.	.	.	.	.
Devi		1	7	6	7	5	3	1	6	4	1	3	3	1		1	7	3	3	1	5	3	1	8	7	3	1	2	2	1		1	4	1	1	4	3	4	5	5	3	4
ation		%	%	%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%

PostgreSQL pgbench - Buffer Test - Normal Load - Read Write (TPS)	481.17	1138	369.44	339.63	1347	1336	981.26	328.18	171.65	251.01	681.44	2293	258.51	212.63
Normalized	4.65%	10.99%	3.57%	3.28%	13.01%	12.91%	9.48%	3.17%	1.66%	2.43%	6.58%	22.16%	2.5%	2.05%
Standard Deviation	6.9%	0.9%	2.3%	1.2%	2%	3.5%	1.4%	2.6%	54.8%	6.2%	1.9%	1%	40.3%	1.7%
Redis - GET (Reqs/sec)	1513351	1385795	1122118	1204371	1210310	1147789	1177861	1112461	1816069	1574477	1880970	1467023	1765958	1902403

PostgreSQL pgbench - Buffer Test - Normal Load - Read Write (TPS)	416.63	758.41	3066	10349	732.58	639.84	1871	344.99	3418	2490	2565	697.58	415.15	2364
Normalized	4.03%	7.33%	29.63%	100%	7.08%	6.18%	18.08%	3.33%	33.03%	24.06%	24.78%	6.74%	4.01%	22.84%
Standard Deviation	3.3%	8%	3.1%	3.1%	19.1%	4.3%	15%	57.1%	2.6%	1.1%	1.7%	7.1%	1.9%	1.3%
Redis - GET (Reqs/sec)	552084	2375702	2079665	1485164	2147712	2491926	2399230	599355	2154295	633169	622992	1209200	1258398	500027

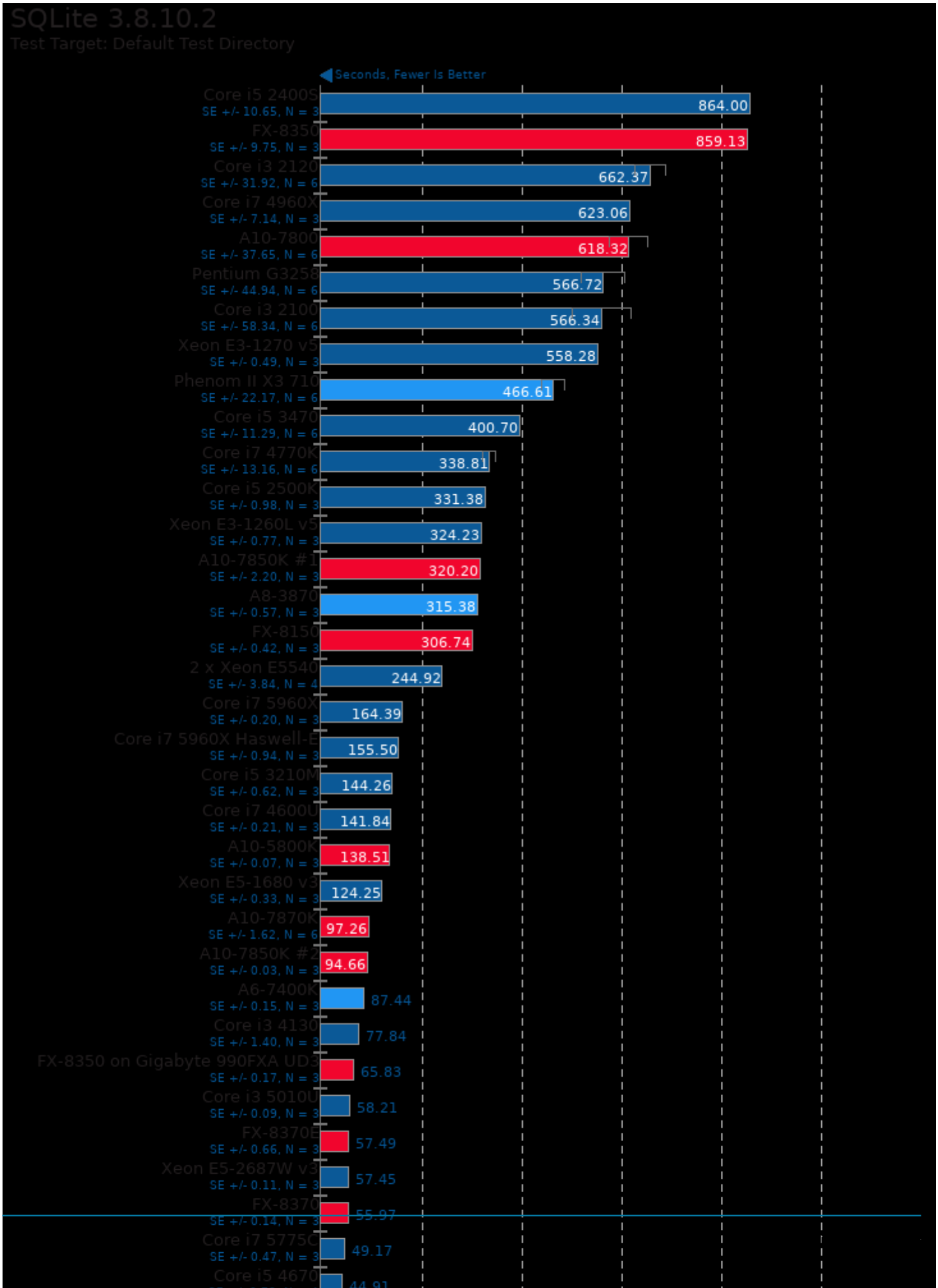
PostgreSQL pgbench - Buffer Test - Normal Load - Read Write (TPS)	1010	349.05	3017	232.19	6840	3502	3491	764.50	398.48	4352	2974	4571	1081	3294
Normalized	9.76%	3.37%	29.15%	2.24%	66.09%	33.84%	33.73%	7.39%	3.85%	42.05%	28.74%	44.17%	10.45%	31.82%
Standard Deviation	24%	2.3%	0.7%	4.2%	0.6%	4.5%	8.5%	3.1%	1.7%	21.3%	0.9%	3.3%	2.4%	2.5%
Redis - GET (Reqs/sec)	1310867	1991426	2732525	1021057	2515137	2340965	3209832	3092810	3051843	2989593	2002672	657796	1487655	1345169

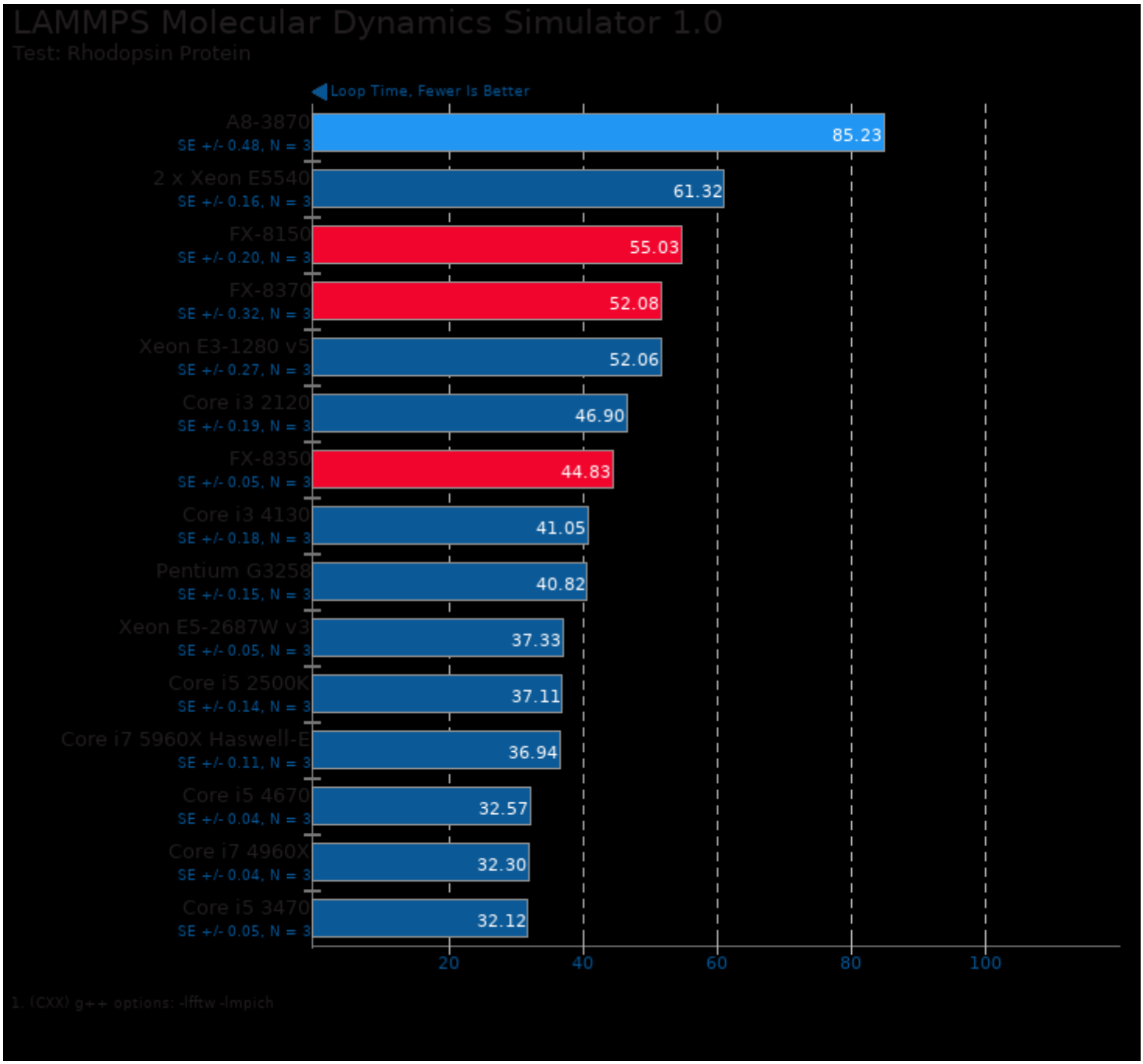
40-Way Linux PC Benchmark Comparison

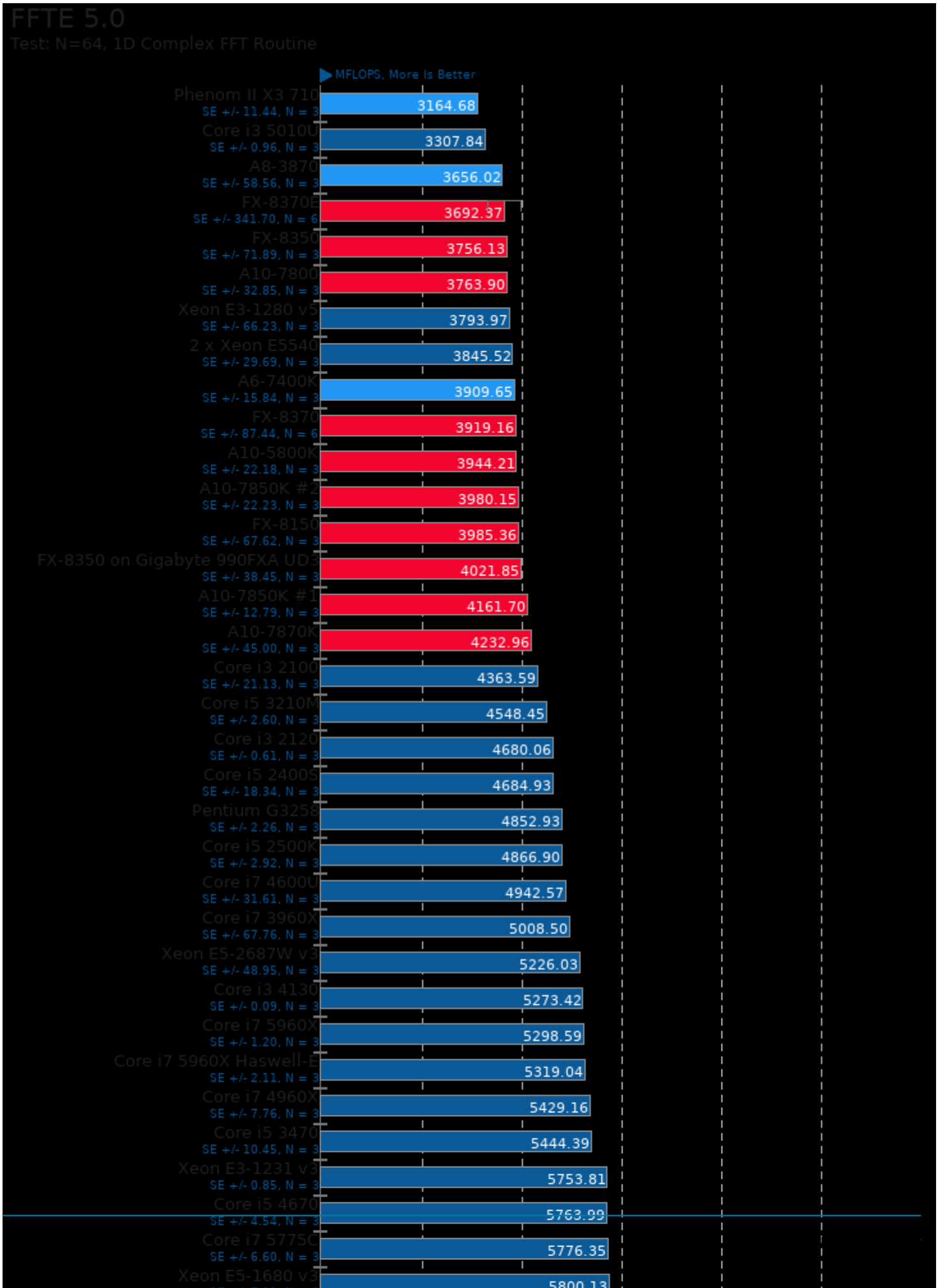
40-Way Linux PC Benchmark Comparison

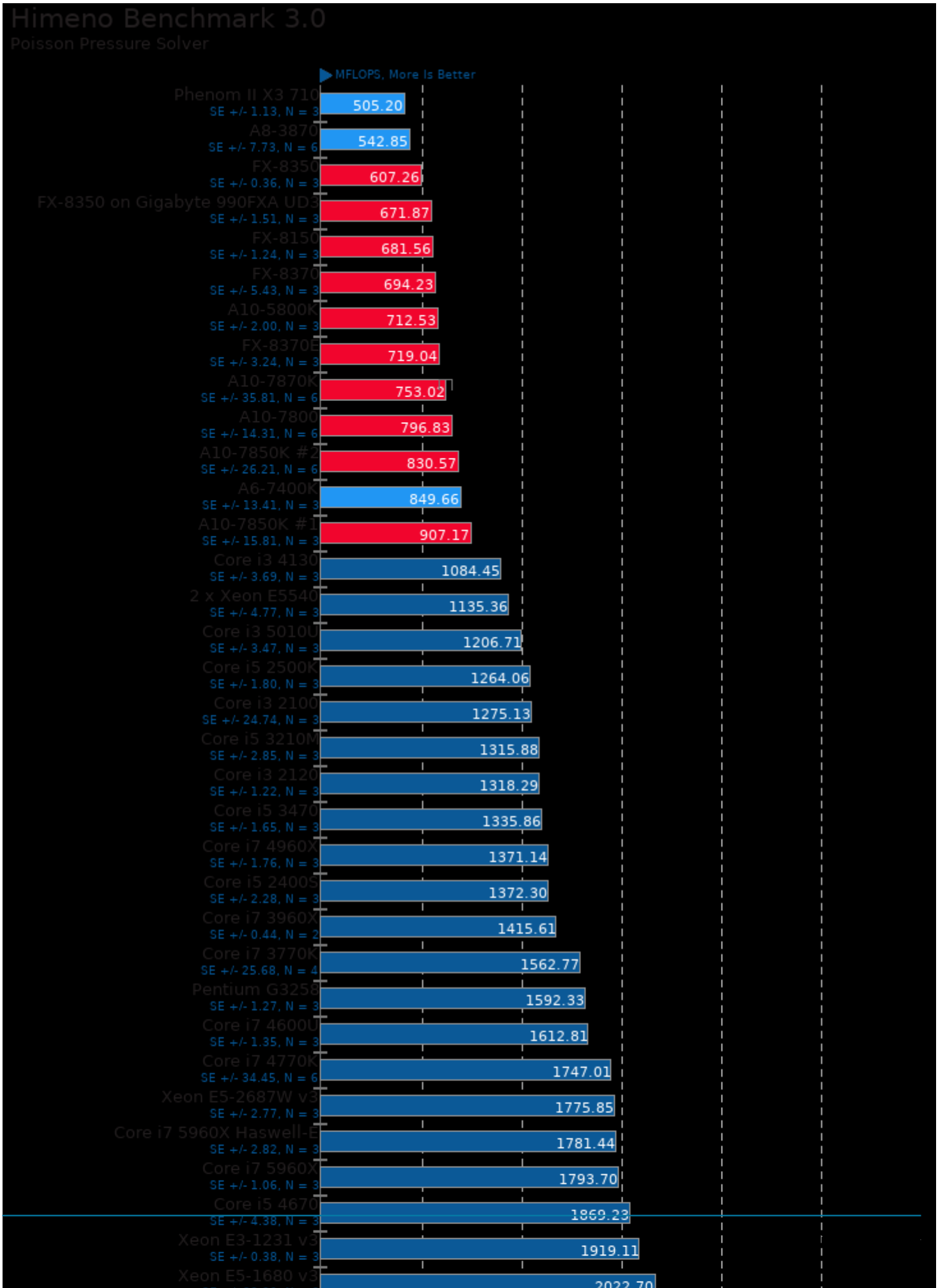
Apache Benchmark - S.W.P.S (Reqs/sec	16393	20772	22261	19324	19715	14040	**10842**	18932	20260	20983	17346	20034	25053	30653	17592	**52502**	28817	20330	27335	22565	48265	19033	40177	18658	20324	20393	16817	19034	20831	20833	42929	41091	42014	47405	45027	19521
Normalized	31.22%	39.48%	42.4%	36.81%	37.55%	26.74%	20.65%	36.06%	38.59%	39.97%	33.04%	38.16%	47.72%	58.38%	33.51%	100%	54.89%	38.72%	52.06%	42.98%	91.93%	36.25%	76.52%	35.54%	38.71%	38.84%	32.03%	36.25%	39.68%	39.68%	81.77%	78.27%	80.02%	90.29%	85.76%	37.18%
Standard Deviation	0.7%	0.2%	0.4%	1.9%	3.2%	0.2%	0.3%	0.3%	0.7%	0.8%	0.6%	0.2%	0.3%	0.6%	0.2%	1.1%	0.8%	17.2%	0.5%	1%	4.4%	0.8%	0.1%	4.7%	0.3%	0.1%	0.1%	0.9%	1.2%	0.4%	0.1%	1%	3.4%	0.9%	0.2%	0.6%

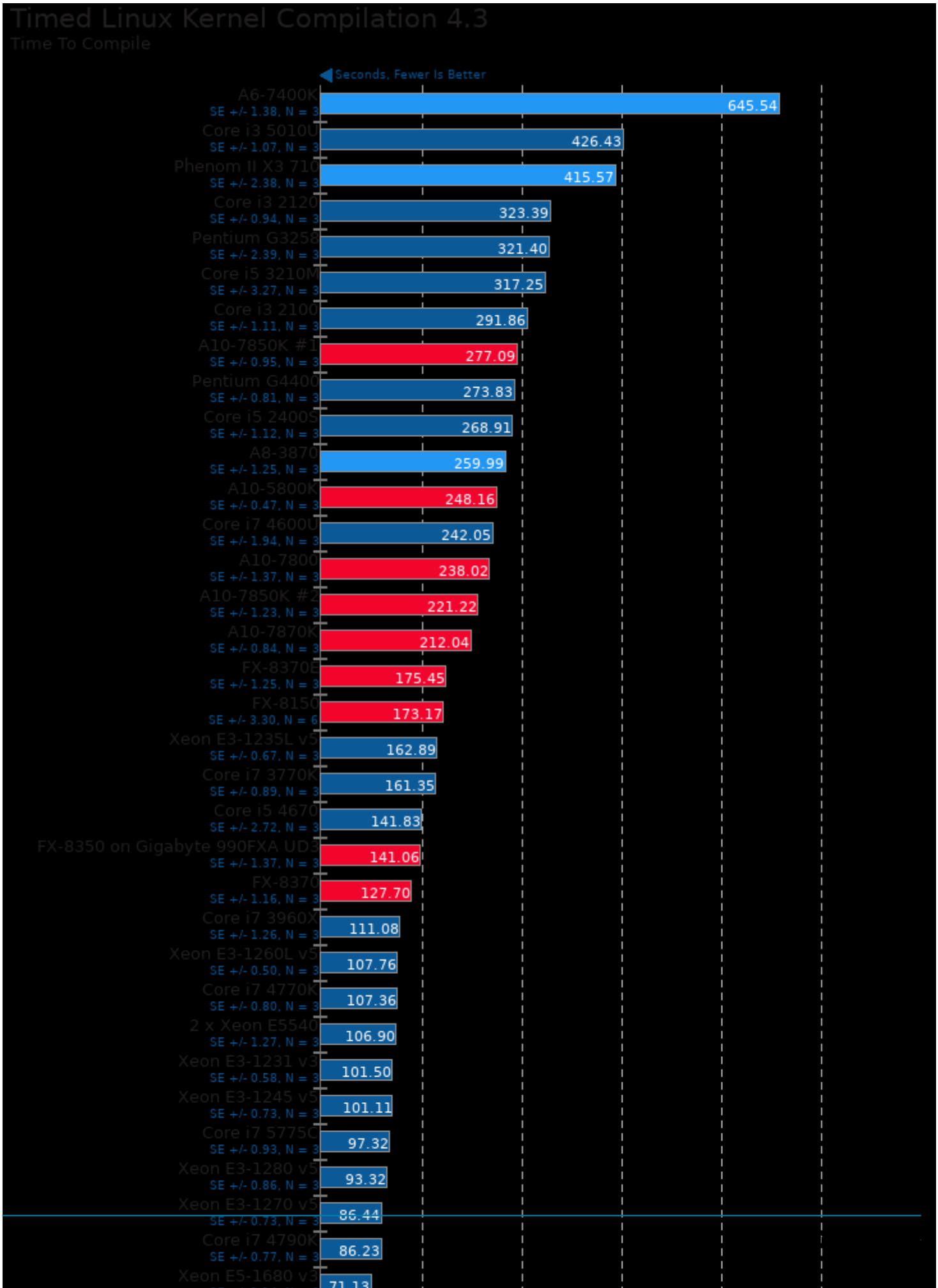
40-Way Linux PC Benchmark Comparison

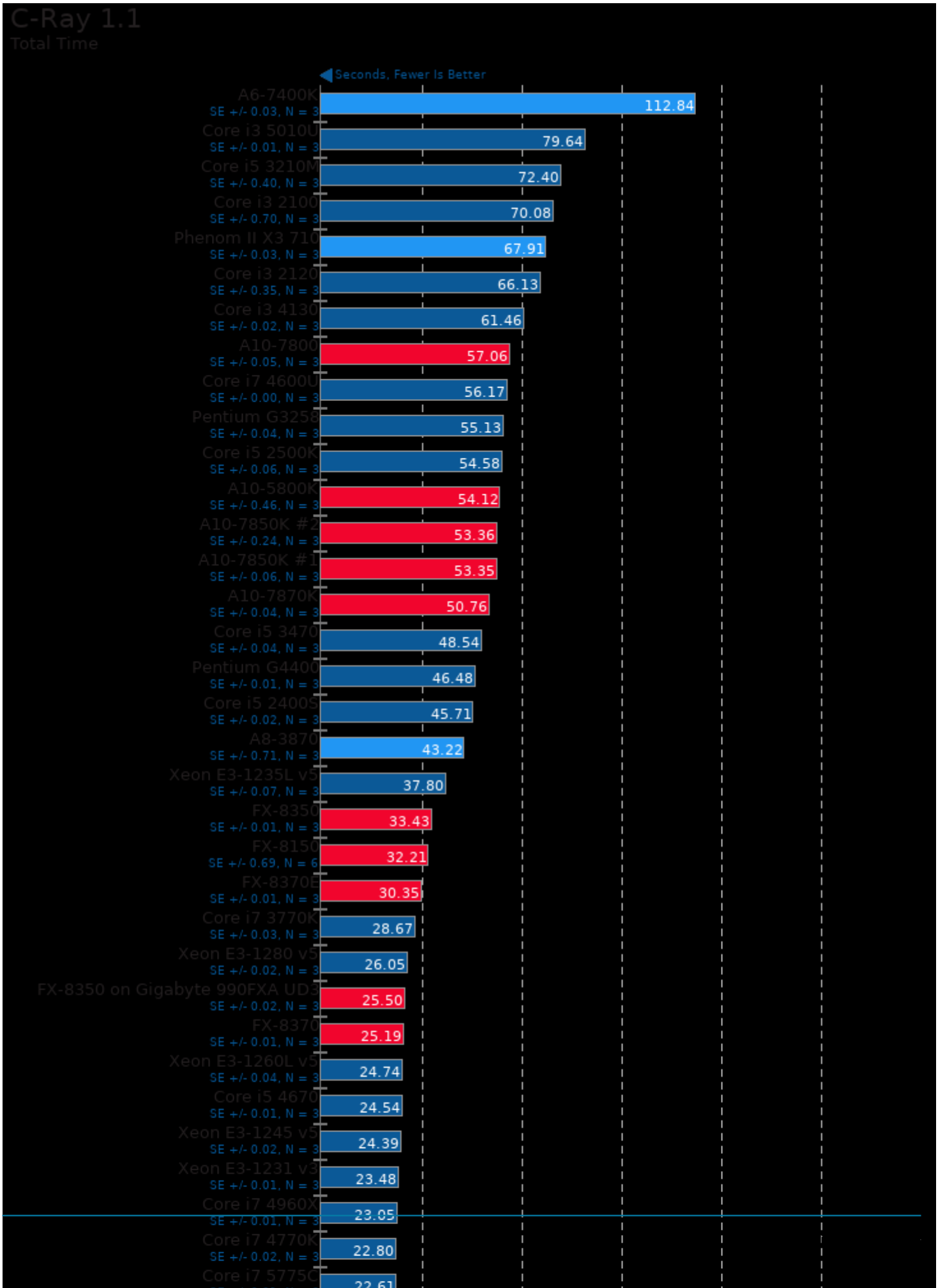

SQLite 3.8.10.2
Test Target: Default Test Directory
Seconds, Fewer Is Better
Core i5 2400S
SE +/- 10.65, N = 3
864.00
FX-8350
SE +/- 9.75, N = 3
859.13
Core i3 2120
SE +/- 31.92, N = 6
662.37
Core i7 4960X
SE +/- 7.14, N = 3
623.06
A10-7800
SE +/- 37.65, N = 6
618.32
Pentium G3258
SE +/- 44.94, N = 6
566.72
Core i3 2100
SE +/- 58.34, N = 6
566.34
Xeon E3-1270 v3
SE +/- 0.49, N = 3
558.28
Phenom II X3 710
SE +/- 22.17, N = 6
466.61
Core i5 3470
SE +/- 11.29, N = 6
400.70
Core i7 4770K
SE +/- 13.16, N = 6
338.81
Core i5 2500K
SE +/- 0.98, N = 3
331.38
Xeon E3-1260L v3
SE +/- 0.77, N = 3
324.23
A10-7850K #1
SE +/- 2.20, N = 3
320.20
A8-3870
SE +/- 0.57, N = 3
315.38
FX-8150
SE +/- 0.42, N = 3
306.74
2 x Xeon E5540
SE +/- 3.84, N = 4
244.92
Core i7 5960X
SE +/- 0.20, N = 3
164.39
Core i7 5960X Haswell-E
SE +/- 0.94, N = 3
155.50
Core i5 3210M
SE +/- 0.62, N = 3
144.26
Core i7 4600U
SE +/- 0.21, N = 3
141.84
A10-5800K
SE +/- 0.07, N = 3
138.51
Xeon E5-1680 v3
SE +/- 0.33, N = 3
124.25
A10-7870K
SE +/- 1.62, N = 6
97.26
A10-7850K #2
SE +/- 0.03, N = 3
94.66
A6-7400K
SE +/- 0.15, N = 3
87.44
Core i3 4130
SE +/- 1.40, N = 3
77.84
FX-8350 on Gigabyte 990FXA UD3
SE +/- 0.17, N = 3
65.83
Core i3 5010U
SE +/- 0.09, N = 3
58.21
FX-8370E
SE +/- 0.66, N = 3
57.49
Xeon E5-2687W v3
SE +/- 0.11, N = 3
57.45
FX-8370
SE +/- 0.14, N = 3
55.97
Core i7 5775C
SE +/- 0.47, N = 3
49.17
Core i5 4670
44.91

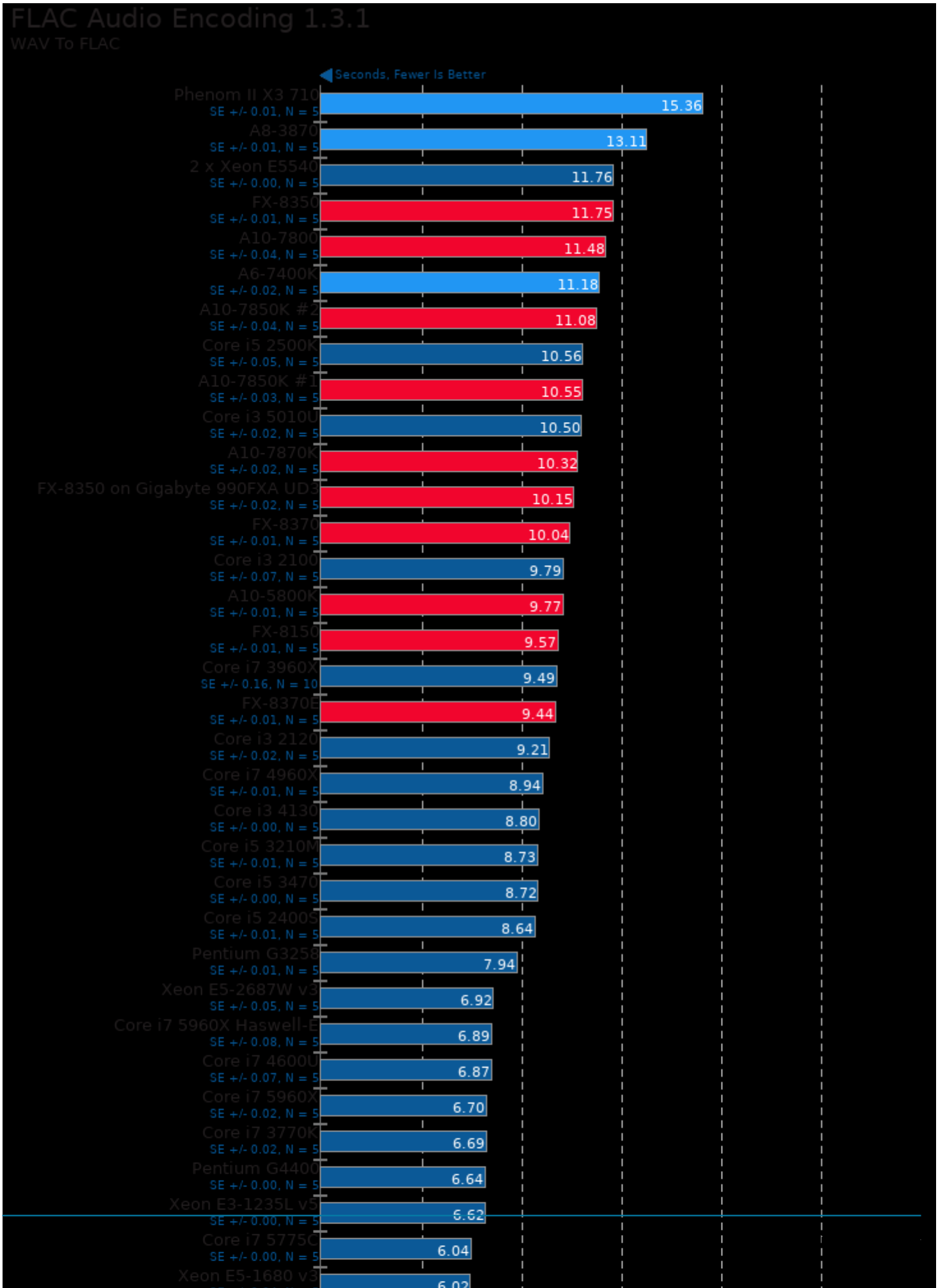

LAMMPS Molecular Dynamics Simulator 1.0
Test: Rhodopsin Protein
Loop Time, Fewer Is Better
A8-3870
SE +/- 0.48, N = 3
85.23
2 x Xeon E5540
SE +/- 0.16, N = 3
61.32
FX-8150
SE +/- 0.20, N = 3
55.03
FX-8370
SE +/- 0.32, N = 3
52.08
Xeon E3-1280 v5
SE +/- 0.27, N = 3
52.06
Core i3 2120
SE +/- 0.19, N = 3
46.90
FX-8350
SE +/- 0.05, N = 3
44.83
Core i3 4130
SE +/- 0.18, N = 3
41.05
Pentium G3258
SE +/- 0.15, N = 3
40.82
Xeon E5-2687W v3
SE +/- 0.05, N = 3
37.33
Core i5 2500K
SE +/- 0.14, N = 3
37.11
Core i7 5960X Haswell-E
SE +/- 0.11, N = 3
36.94
Core i5 4670
SE +/- 0.04, N = 3
32.57
Core i7 4960X
SE +/- 0.04, N = 3
32.30
Core i5 3470
SE +/- 0.05, N = 3
32.12
20
40
60
80
100
1. (CXX) g++ options: -lfftw -lmpich

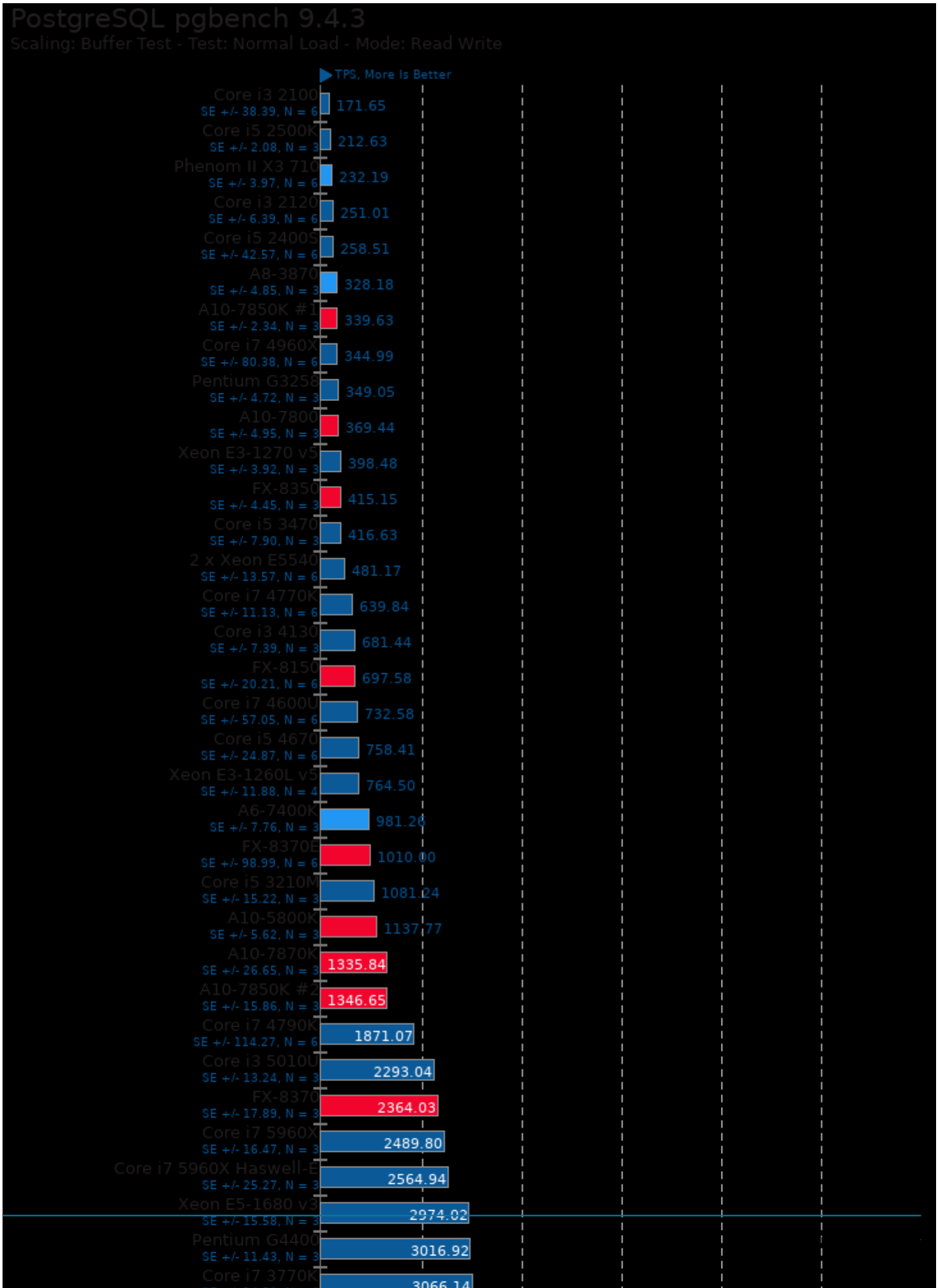

FFTE 5.0
Test: N=64, 1D Complex FFT Routine
MFLOPS, More Is Better
Phenom II X3 710
SE +/- 11.44, N = 3
3164.68
Core i3 5010U
SE +/- 0.96, N = 3
3307.84
A8-3870
SE +/- 58.56, N = 3
3656.02
FX-8370E
SE +/- 341.70, N = 6
3692.37
FX-8350
SE +/- 71.89, N = 3
3756.13
A10-7800
SE +/- 32.85, N = 3
3763.90
Xeon E3-1280 v5
SE +/- 66.23, N = 3
3793.97
2 x Xeon E5540
SE +/- 29.69, N = 3
3845.52
A6-7400K
SE +/- 15.84, N = 3
3909.65
FX-8370
SE +/- 87.44, N = 6
3919.16
A10-5800K
SE +/- 22.18, N = 3
3944.21
A10-7850K #2
SE +/- 22.23, N = 3
3980.15
FX-8150
SE +/- 67.62, N = 3
3985.36
FX-8350 on Gigabyte 990FXA UD3
SE +/- 38.45, N = 3
4021.85
A10-7850K #1
SE +/- 12.79, N = 3
4161.70
A10-7870K
SE +/- 45.00, N = 3
4232.96
Core i3 2100
SE +/- 21.13, N = 3
4363.59
Core i5 3210M
SE +/- 2.60, N = 3
4548.45
Core i3 2120
SE +/- 0.61, N = 3
4680.06
Core i5 2400S
SE +/- 18.34, N = 3
4684.93
Pentium G3258
SE +/- 2.26, N = 3
4852.93
Core i5 2500K
SE +/- 2.92, N = 3
4866.90
Core i7 4600U
SE +/- 31.61, N = 3
4942.57
Core i7 3960X
SE +/- 67.76, N = 3
5008.50
Xeon E5-2687W v3
SE +/- 48.95, N = 3
5226.03
Core i3 4130
SE +/- 0.09, N = 3
5273.42
Core i7 5960X
SE +/- 1.20, N = 3
5298.59
Core i7 5960X Haswell-E
SE +/- 2.11, N = 3
5319.04
Core i7 4960X
SE +/- 7.76, N = 3
5429.16
Core i5 3470
SE +/- 10.45, N = 3
5444.39
Xeon E3-1231 v3
SE +/- 0.85, N = 3
5753.81
Core i5 4670
SE +/- 4.54, N = 3
5763.99
Core i7 5775C
SE +/- 6.60, N = 3
5776.35
Xeon E5-1680 v3
5800.13

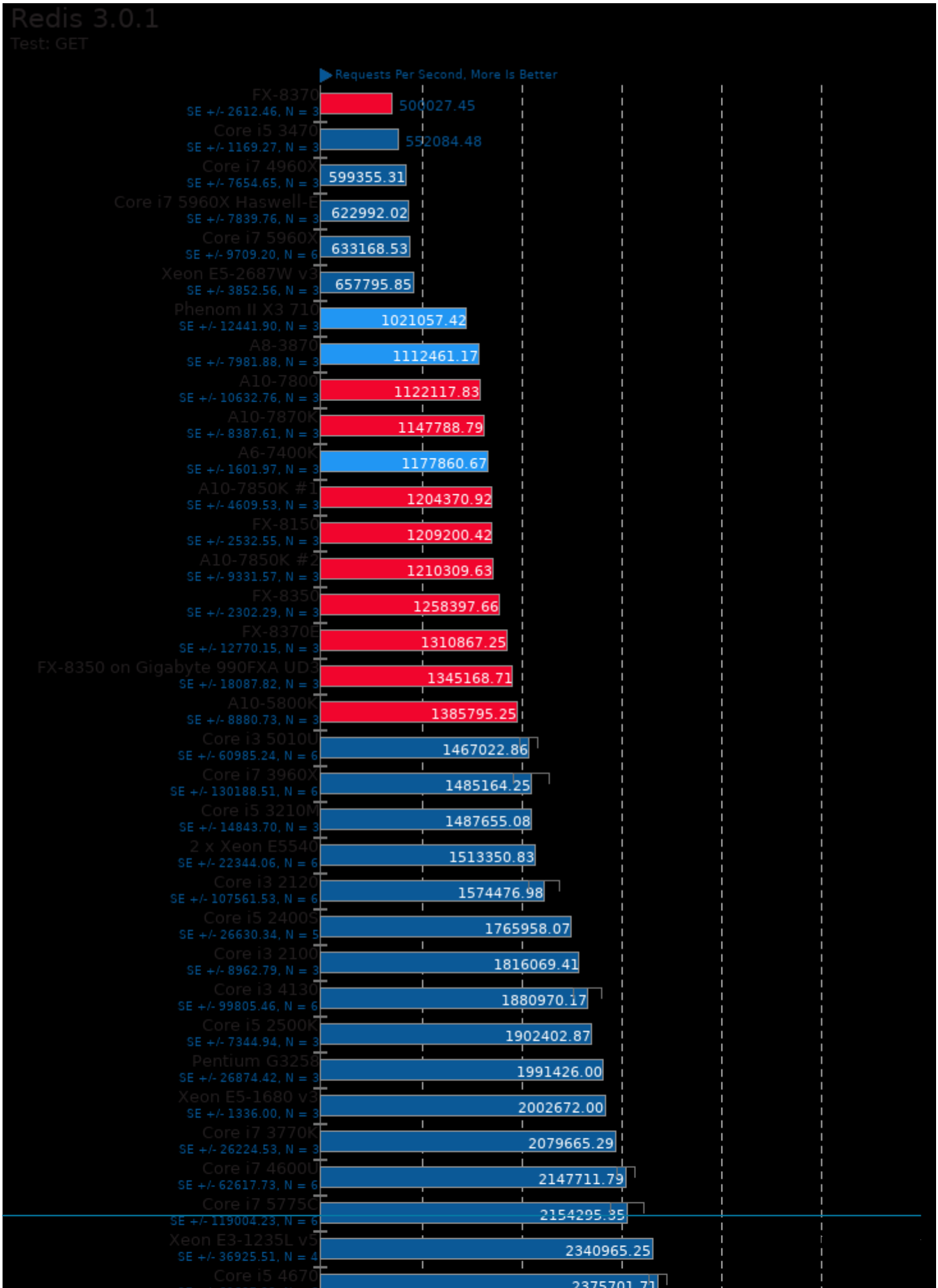

Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
Phenom II X3 710
SE +/- 1.13, N = 3
505.20
A8-3870
SE +/- 7.73, N = 6
542.85
FX-8350
SE +/- 0.36, N = 3
607.26
FX-8350 on Gigabyte 990FXA UD3
SE +/- 1.51, N = 3
671.87
FX-8150
SE +/- 1.24, N = 3
681.56
FX-8370
SE +/- 5.43, N = 3
694.23
A10-5800K
SE +/- 2.00, N = 3
712.53
FX-8370E
SE +/- 3.24, N = 3
719.04
A10-7870K
SE +/- 35.81, N = 6
753.02
A10-7800
SE +/- 14.31, N = 6
796.83
A10-7850K #2
SE +/- 26.21, N = 6
830.57
A6-7400K
SE +/- 13.41, N = 3
849.66
A10-7850K #1
SE +/- 15.81, N = 3
907.17
Core i3 4130
SE +/- 3.69, N = 3
1084.45
2 x Xeon E5540
SE +/- 4.77, N = 3
1135.36
Core i3 5010U
SE +/- 3.47, N = 3
1206.71
Core i5 2500K
SE +/- 1.80, N = 3
1264.06
Core i3 2100
SE +/- 24.74, N = 3
1275.13
Core i5 3210M
SE +/- 2.85, N = 3
1315.88
Core i3 2120
SE +/- 1.22, N = 3
1318.29
Core i5 3470
SE +/- 1.65, N = 3
1335.86
Core i7 4960X
SE +/- 1.76, N = 3
1371.14
Core i5 2400S
SE +/- 2.28, N = 3
1372.30
Core i7 3960X
SE +/- 0.44, N = 2
1415.61
Core i7 3770K
SE +/- 25.68, N = 4
1562.77
Pentium G3258
SE +/- 1.27, N = 3
1592.33
Core i7 4600U
SE +/- 1.35, N = 3
1612.81
Core i7 4770K
SE +/- 34.45, N = 6
1747.01
Xeon E5-2687W v3
SE +/- 2.77, N = 3
1775.85
Core i7 5960X Haswell-E
SE +/- 2.82, N = 3
1781.44
Core i7 5960X
SE +/- 1.06, N = 3
1793.70
Core i5 4670
SE +/- 4.38, N = 3
1869.23
Xeon E3-1231 v3
SE +/- 0.38, N = 3
1919.11
Xeon E5-1680 v3
2022.70

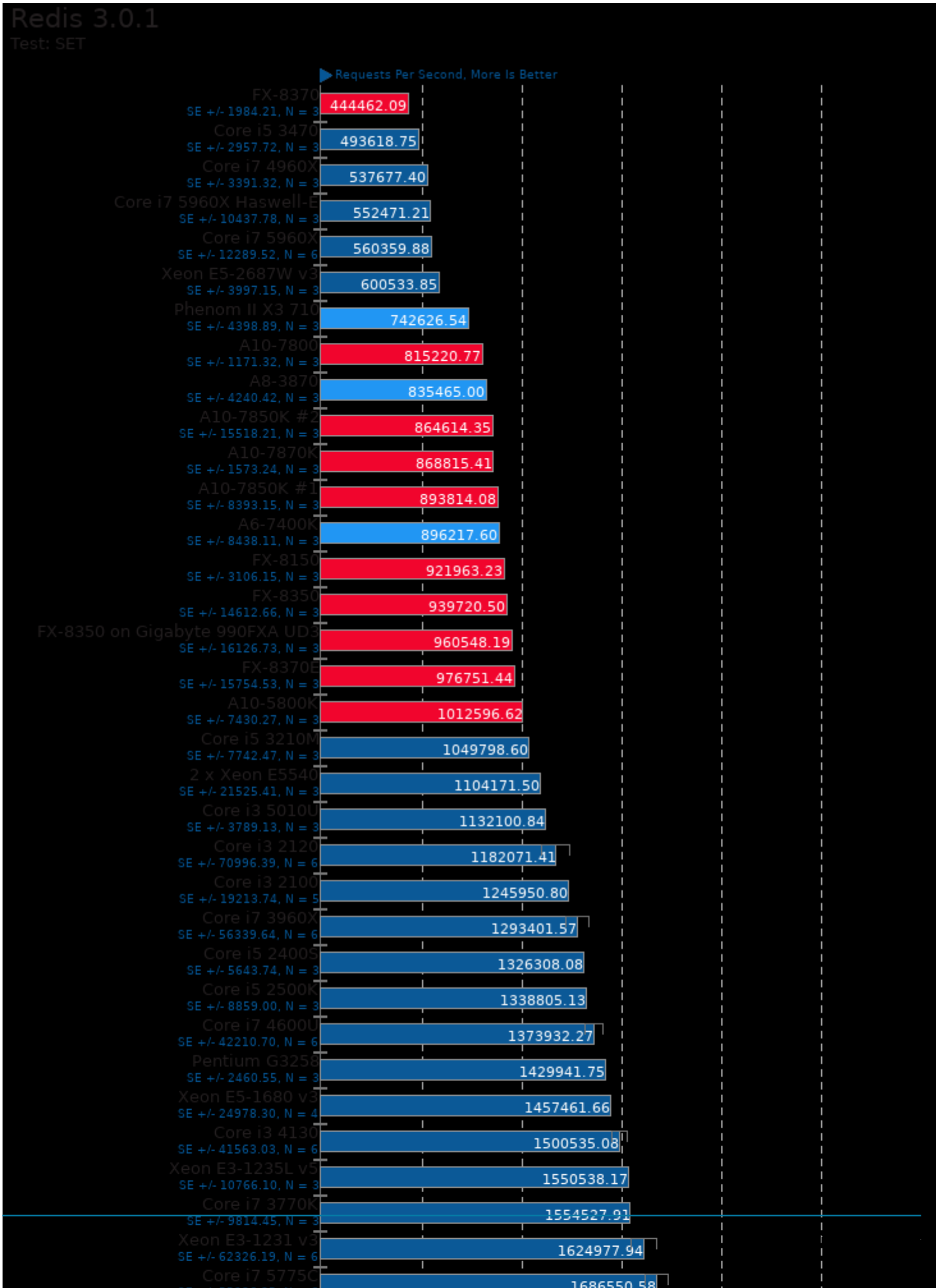

Timed Linux Kernel Compilation 4.3
Time To Compile
Seconds, Fewer Is Better
A6-7400K
SE +/- 1.38, N = 3
645.54
Core i3 5010U
SE +/- 1.07, N = 3
426.43
Phenom II X3 710
SE +/- 2.38, N = 3
415.57
Core i3 2120
SE +/- 0.94, N = 3
323.39
Pentium G3258
SE +/- 2.39, N = 3
321.40
Core i5 3210M
SE +/- 3.27, N = 3
317.25
Core i3 2100
SE +/- 1.11, N = 3
291.86
A10-7850K #1
SE +/- 0.95, N = 3
277.09
Pentium G4400
SE +/- 0.81, N = 3
273.83
Core i5 2400S
SE +/- 1.12, N = 3
268.91
A8-3870
SE +/- 1.25, N = 3
259.99
A10-5800K
SE +/- 0.47, N = 3
248.16
Core i7 4600U
SE +/- 1.94, N = 3
242.05
A10-7800
SE +/- 1.37, N = 3
238.02
A10-7850K #2
SE +/- 1.23, N = 3
221.22
A10-7870K
SE +/- 0.84, N = 3
212.04
FX-8370E
SE +/- 1.25, N = 3
175.45
FX-8150
SE +/- 3.30, N = 6
173.17
Xeon E3-1235L v5
SE +/- 0.67, N = 3
162.89
Core i7 3770K
SE +/- 0.89, N = 3
161.35
Core i5 4670
SE +/- 2.72, N = 3
141.83
FX-8350 on Gigabyte 990FXA UD3
SE +/- 1.37, N = 3
141.06
FX-8370
SE +/- 1.16, N = 3
127.70
Core i7 3960X
SE +/- 1.26, N = 3
111.08
Xeon E3-1260L v5
SE +/- 0.50, N = 3
107.76
Core i7 4770K
SE +/- 0.80, N = 3
107.36
2 x Xeon E5540
SE +/- 1.27, N = 3
106.90
Xeon E3-1231 v3
SE +/- 0.58, N = 3
101.50
Xeon E3-1245 v5
SE +/- 0.73, N = 3
101.11
Core i7 5775C
SE +/- 0.93, N = 3
97.32
Xeon E3-1280 v5
SE +/- 0.86, N = 3
93.32
Xeon E3-1270 v5
SE +/- 0.73, N = 3
86.44
Core i7 4790K
SE +/- 0.77, N = 3
86.23
Xeon E5-1680 v3
71.13

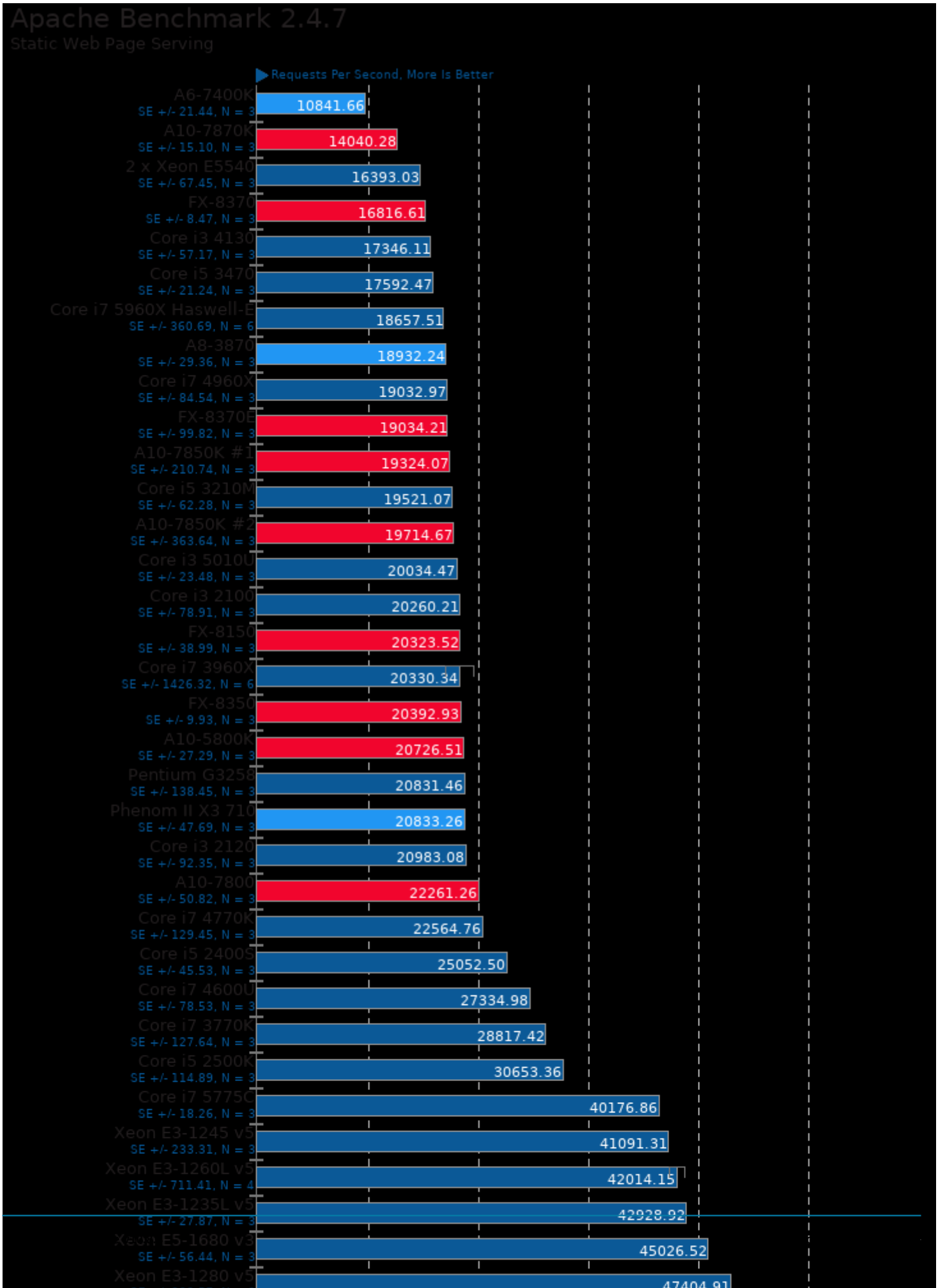

C-Ray 1.1
Total Time
Seconds, Fewer Is Better
A6-7400K
SE +/- 0.03, N = 3
112.84
Core i3 5010U
SE +/- 0.01, N = 3
79.64
Core i5 3210M
SE +/- 0.40, N = 3
72.40
Core i3 2100
SE +/- 0.70, N = 3
70.08
Phenom II X3 710
SE +/- 0.03, N = 3
67.91
Core i3 2120
SE +/- 0.35, N = 3
66.13
Core i3 4130
SE +/- 0.02, N = 3
61.46
A10-7800
SE +/- 0.05, N = 3
57.06
Core i7 4600U
SE +/- 0.00, N = 3
56.17
Pentium G3258
SE +/- 0.04, N = 3
55.13
Core i5 2500K
SE +/- 0.06, N = 3
54.58
A10-5800K
SE +/- 0.46, N = 3
54.12
A10-7850K #2
SE +/- 0.24, N = 3
53.36
A10-7850K #1
SE +/- 0.06, N = 3
53.35
A10-7870K
SE +/- 0.04, N = 3
50.76
Core i5 3470
SE +/- 0.04, N = 3
48.54
Pentium G4400
SE +/- 0.01, N = 3
46.48
Core i5 2400S
SE +/- 0.02, N = 3
45.71
A8-3870
SE +/- 0.71, N = 3
43.22
Xeon E3-1235L v5
SE +/- 0.07, N = 3
37.80
FX-8350
SE +/- 0.01, N = 3
33.43
FX-8150
SE +/- 0.69, N = 6
32.21
FX-8370E
SE +/- 0.01, N = 3
30.35
Core i7 3770K
SE +/- 0.03, N = 3
28.67
Xeon E3-1280 v5
SE +/- 0.02, N = 3
26.05
FX-8350 on Gigabyte 990FXA UD3
SE +/- 0.02, N = 3
25.50
FX-8370
SE +/- 0.01, N = 3
25.19
Xeon E3-1260L v5
SE +/- 0.04, N = 3
24.74
Core i5 4670
SE +/- 0.01, N = 3
24.54
Xeon E3-1245 v5
SE +/- 0.02, N = 3
24.39
Xeon E3-1231 v3
SE +/- 0.01, N = 3
23.48
Core i7 4960X
SE +/- 0.01, N = 3
23.05
Core i7 4770K
SE +/- 0.02, N = 3
22.80
Core i7 5775C
22.61


FLAC Audio Encoding 1.3.1
WAV To FLAC
Seconds, Fewer Is Better
Phenom II X3 710
SE +/- 0.01, N = 5
15.36
A8-3870
SE +/- 0.01, N = 5
13.11
2 x Xeon E5540
SE +/- 0.00, N = 5
11.76
FX-8350
SE +/- 0.01, N = 5
11.75
A10-7800
SE +/- 0.04, N = 5
11.48
A6-7400K
SE +/- 0.02, N = 5
11.18
A10-7850K #2
SE +/- 0.04, N = 5
11.08
Core i5 2500K
SE +/- 0.05, N = 5
10.56
A10-7850K #1
SE +/- 0.03, N = 5
10.55
Core i3 5010U
SE +/- 0.02, N = 5
10.50
A10-7870K
SE +/- 0.02, N = 5
10.32
FX-8350 on Gigabyte 990FXA UD3
SE +/- 0.02, N = 5
10.15
FX-8370
SE +/- 0.01, N = 5
10.04
Core i3 2100
SE +/- 0.07, N = 5
9.79
A10-5800K
SE +/- 0.01, N = 5
9.77
FX-8150
SE +/- 0.01, N = 5
9.57
Core i7 3960X
SE +/- 0.16, N = 10
9.49
FX-8370E
SE +/- 0.01, N = 5
9.44
Core i3 2120
SE +/- 0.02, N = 5
9.21
Core i7 4960X
SE +/- 0.01, N = 5
8.94
Core i3 4130
SE +/- 0.00, N = 5
8.80
Core i5 3210M
SE +/- 0.01, N = 5
8.73
Core i5 3470
SE +/- 0.00, N = 5
8.72
Core i5 2400S
SE +/- 0.01, N = 5
8.64
Pentium G3258
SE +/- 0.01, N = 5
7.94
Xeon E5-2687W v3
SE +/- 0.05, N = 5
6.92
Core i7 5960X Haswell-E
SE +/- 0.08, N = 5
6.89
Core i7 4600U
SE +/- 0.07, N = 5
6.87
Core i7 5960X
SE +/- 0.02, N = 5
6.70
Core i7 3770K
SE +/- 0.02, N = 5
6.69
Pentium G4400
SE +/- 0.00, N = 5
6.64
Xeon E3-1235L v5
SE +/- 0.00, N = 5
6.62
Core i7 5775C
SE +/- 0.00, N = 5
6.04
Xeon E5-1680 v3
6.02


PostgreSQL pgbench 9.4.3
Scaling: Buffer Test - Test: Normal Load - Mode: Read Write
TPS, More Is Better
Core i3 2100
SE +/- 38.39, N = 6
171.65
Core i5 2500K
SE +/- 2.08, N = 3
212.63
Phenom II X3 710
SE +/- 3.97, N = 6
232.19
Core i3 2120
SE +/- 6.39, N = 6
251.01
Core i5 2400S
SE +/- 42.57, N = 6
258.51
A8-3870
SE +/- 4.85, N = 3
328.18
A10-7850K #1
SE +/- 2.34, N = 3
339.63
Core i7 4960X
SE +/- 80.38, N = 6
344.99
Pentium G3258
SE +/- 4.72, N = 3
349.05
A10-7800
SE +/- 4.95, N = 3
369.44
Xeon E3-1270 v5
SE +/- 3.92, N = 3
398.48
FX-8350
SE +/- 4.45, N = 3
415.15
Core i5 3470
SE +/- 7.90, N = 3
416.63
2 x Xeon E5540
SE +/- 13.57, N = 6
481.17
Core i7 4770K
SE +/- 11.13, N = 6
639.84
Core i3 4130
SE +/- 7.39, N = 3
681.44
FX-8150
SE +/- 20.21, N = 6
697.58
Core i7 4600U
SE +/- 57.05, N = 6
732.58
Core i5 4670
SE +/- 24.87, N = 6
758.41
Xeon E3-1260L v5
SE +/- 11.88, N = 4
764.50
A6-7400K
SE +/- 7.76, N = 3
981.26
FX-8370E
SE +/- 98.99, N = 6
1010.00
Core i5 3210M
SE +/- 15.22, N = 3
1081.24
A10-5800K
SE +/- 5.62, N = 3
1137.77
A10-7870K
SE +/- 26.65, N = 3
1335.84
A10-7850K #2
SE +/- 15.86, N = 3
1346.65
Core i7 4790K
SE +/- 114.27, N = 6
1871.07
Core i3 5010U
SE +/- 13.24, N = 3
2293.04
FX-8370
SE +/- 17.89, N = 3
2364.03
Core i7 5960X
SE +/- 16.47, N = 3
2489.80
Core i7 5960X Haswell-E
SE +/- 25.27, N = 3
2564.94
Xeon E5-1680 v3
SE +/- 15.58, N = 3
2974.02
Pentium G4400
SE +/- 11.43, N = 3
3016.92
Core i7 3770K
3066.14

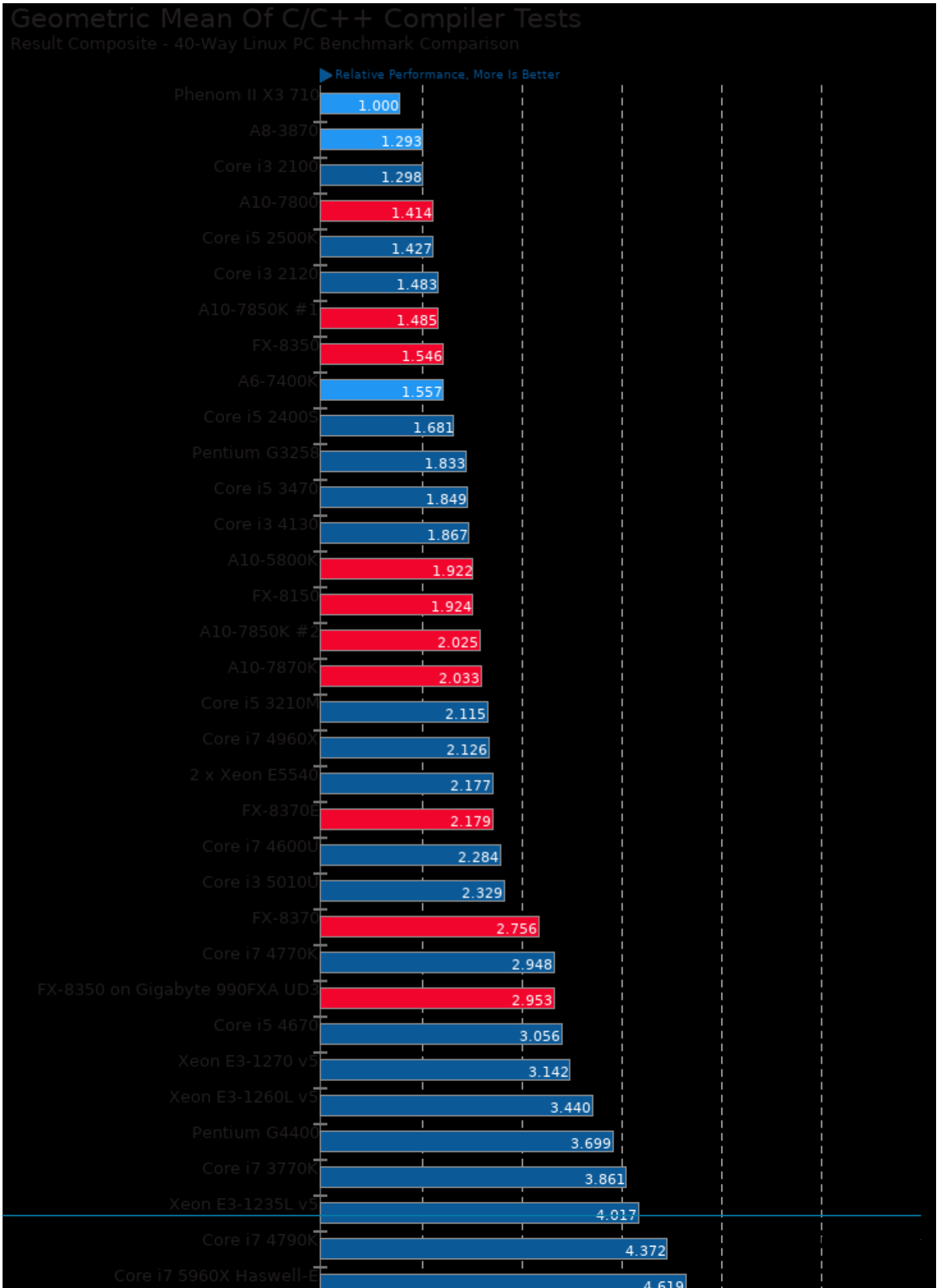

Redis 3.0.1
Test: GET
Requests Per Second, More Is Better
FX-8370
SE +/- 2612.46, N = 3
500027.45
Core i5 3470
SE +/- 1169.27, N = 3
592084.48
Core i7 4960X
SE +/- 7654.65, N = 3
599355.31
Core i7 5960X Haswell-E
SE +/- 7839.76, N = 3
622992.02
Core i7 5960X
SE +/- 9709.20, N = 6
633168.53
Xeon E5-2687W v3
SE +/- 3852.56, N = 3
657795.85
Phenom II X3 710
SE +/- 12441.90, N = 3
1021057.42
A8-3870
SE +/- 7981.88, N = 3
1112461.17
A10-7800
SE +/- 10632.76, N = 3
1122117.83
A10-7870K
SE +/- 8387.61, N = 3
1147788.79
A6-7400K
SE +/- 1601.97, N = 3
1177860.67
A10-7850K #1
SE +/- 4609.53, N = 3
1204370.92
FX-8150
SE +/- 2532.55, N = 3
1209200.42
A10-7850K #2
SE +/- 9331.57, N = 3
1210309.63
FX-8350
SE +/- 2302.29, N = 3
1258397.66
FX-8370E
SE +/- 12770.15, N = 3
1310867.25
FX-8350 on Gigabyte 990FXA UD3
SE +/- 18087.82, N = 3
1345168.71
A10-5800K
SE +/- 8880.73, N = 3
1385795.25
Core i3 5010U
SE +/- 60985.24, N = 6
1467022.86
Core i7 3960X
SE +/- 130188.51, N = 6
1485164.25
Core i5 3210M
SE +/- 14843.70, N = 3
1487655.08
2 x Xeon E5540
SE +/- 22344.06, N = 6
1513350.83
Core i3 2120
SE +/- 107561.53, N = 6
1574476.98
Core i5 2400S
SE +/- 26630.34, N = 5
1765958.07
Core i3 2100
SE +/- 8962.79, N = 3
1816069.41
Core i3 4130
SE +/- 99805.46, N = 6
1880970.17
Core i5 2500K
SE +/- 7344.94, N = 3
1902402.87
Pentium G3258
SE +/- 26874.42, N = 3
1991426.00
Xeon E5-1680 v3
SE +/- 1336.00, N = 3
2002672.00
Core i7 3770K
SE +/- 26224.53, N = 3
2079665.29
Core i7 4600U
SE +/- 62617.73, N = 6
2147711.79
Core i7 5775C
SE +/- 119004.23, N = 6
2154295.35
Xeon E3-1235L v5
SE +/- 36925.51, N = 4
2340965.25
Core i5 4670
2375701.71


Redis 3.0.1
Test: SET
Requests Per Second, More Is Better
FX-8370
SE +/- 1984.21, N = 3
444462.09
Core i5 3470
SE +/- 2957.72, N = 3
493618.75
Core i7 4960X
SE +/- 3391.32, N = 3
537677.40
Core i7 5960X Haswell-E
SE +/- 10437.78, N = 3
552471.21
Core i7 5960X
SE +/- 12289.52, N = 6
560359.88
Xeon E5-2687W v3
SE +/- 3997.15, N = 3
600533.85
Phenom II X3 710
SE +/- 4398.89, N = 3
742626.54
A10-7800
SE +/- 1171.32, N = 3
815220.77
A8-3870
SE +/- 4240.42, N = 3
835465.00
A10-7850K #2
SE +/- 15518.21, N = 3
864614.35
A10-7870K
SE +/- 1573.24, N = 3
868815.41
A10-7850K #1
SE +/- 8393.15, N = 3
893814.08
A6-7400K
SE +/- 8438.11, N = 3
896217.60
FX-8150
SE +/- 3106.15, N = 3
921963.23
FX-8350
SE +/- 14612.66, N = 3
939720.50
FX-8350 on Gigabyte 990FXA UD3
SE +/- 16126.73, N = 3
960548.19
FX-8370E
SE +/- 15754.53, N = 3
976751.44
A10-5800K
SE +/- 7430.27, N = 3
1012596.62
Core i5 3210M
SE +/- 7742.47, N = 3
1049798.60
2 x Xeon E5540
SE +/- 21525.41, N = 3
1104171.50
Core i3 5010U
SE +/- 3789.13, N = 3
1132100.84
Core i3 2120
SE +/- 70996.39, N = 6
1182071.41
Core i3 2100
SE +/- 19213.74, N = 5
1245950.80
Core i7 3960X
SE +/- 56339.64, N = 6
1293401.57
Core i5 2400S
SE +/- 5643.74, N = 3
1326308.08
Core i5 2500K
SE +/- 8859.00, N = 3
1338805.13
Core i7 4600U
SE +/- 42210.70, N = 6
1373932.27
Pentium G3258
SE +/- 2460.55, N = 3
1429941.75
Xeon E5-1680 v3
SE +/- 24978.30, N = 4
1457461.66
Core i3 4130
SE +/- 41563.03, N = 6
1500535.08
Xeon E3-1235L v5
SE +/- 10766.10, N = 3
1550538.17
Core i7 3770K
SE +/- 9814.45, N = 3
1554527.91
Xeon E3-1231 v3
SE +/- 62326.19, N = 6
1624977.94
Core i7 5775C
1686550.58


Apache Benchmark 2.4.7
Static Web Page Serving
Requests Per Second, More Is Better
A6-7400K
SE +/- 21.44, N = 3
10841.66
A10-7870K
SE +/- 15.10, N = 3
14040.28
2 x Xeon E5540
SE +/- 67.45, N = 3
16393.03
FX-8370
SE +/- 8.47, N = 3
16816.61
Core i3 4130
SE +/- 57.17, N = 3
17346.11
Core i5 3470
SE +/- 21.24, N = 3
17592.47
Core i7 5960X Haswell-E
SE +/- 360.69, N = 6
18657.51
A8-3870
SE +/- 29.36, N = 3
18932.24
Core i7 4960X
SE +/- 84.54, N = 3
19032.97
FX-8370E
SE +/- 99.82, N = 3
19034.21
A10-7850K #1
SE +/- 210.74, N = 3
19324.07
Core i5 3210M
SE +/- 62.28, N = 3
19521.07
A10-7850K #2
SE +/- 363.64, N = 3
19714.67
Core i3 5010U
SE +/- 23.48, N = 3
20034.47
Core i3 2100
SE +/- 78.91, N = 3
20260.21
FX-8150
SE +/- 38.99, N = 3
20323.52
Core i7 3960X
SE +/- 1426.32, N = 6
20330.34
FX-8350
SE +/- 9.93, N = 3
20392.93
A10-5800K
SE +/- 27.29, N = 3
20726.51
Pentium G3258
SE +/- 138.45, N = 3
20831.46
Phenom II X3 710
SE +/- 47.69, N = 3
20833.26
Core i3 2120
SE +/- 92.35, N = 3
20983.08
A10-7800
SE +/- 50.82, N = 3
22261.26
Core i7 4770K
SE +/- 129.45, N = 3
22564.76
Core i5 2400S
SE +/- 45.53, N = 3
25052.50
Core i7 4600U
SE +/- 78.53, N = 3
27334.98
Core i7 3770K
SE +/- 127.64, N = 3
28817.42
Core i5 2500K
SE +/- 114.89, N = 3
30653.36
Core i7 5775C
SE +/- 18.26, N = 3
40176.86
Xeon E3-1245 v5
SE +/- 233.31, N = 3
41091.31
Xeon E3-1260L v5
SE +/- 711.41, N = 4
42014.15
Xeon E3-1235L v5
SE +/- 27.87, N = 3
42928.92
Xeon E5-1680 v3
SE +/- 56.44, N = 3
45026.52
Xeon E3-1280 v5
47404.91

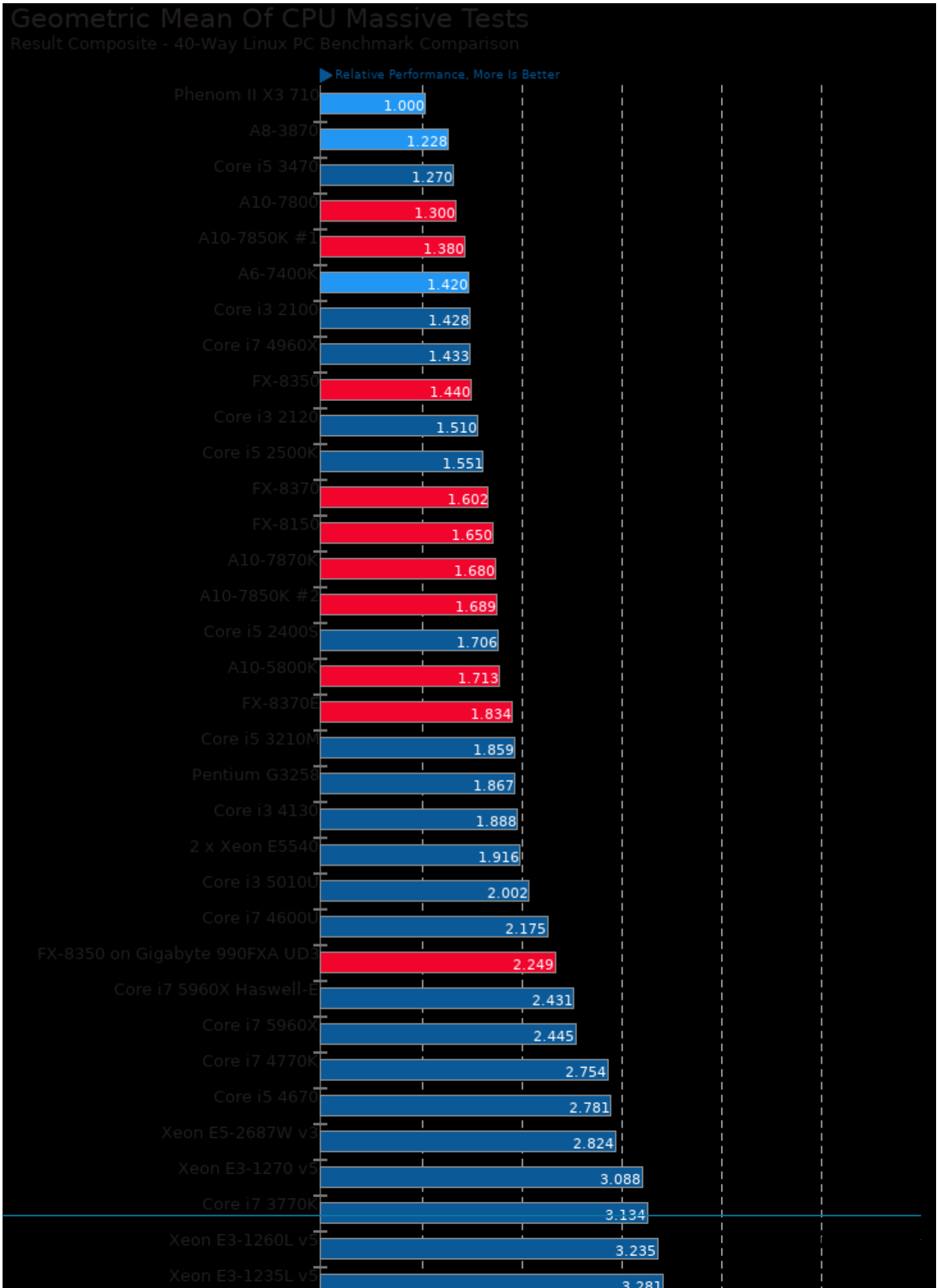
40-Way Linux PC Benchmark Comparison

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


Geometric Mean Of C/C++ Compiler Tests
Result Composite - 40-Way Linux PC Benchmark Comparison
Relative Performance, More Is Better
Phenom II X3 710
1.000
A8-3870
1.293
Core i3 2100
1.298
A10-7800
1.414
Core i5 2500K
1.427
Core i3 2120
1.483
A10-7850K #1
1.485
FX-8350
1.546
A6-7400K
1.557
Core i5 2400S
1.681
Pentium G3258
1.833
Core i5 3470
1.849
Core i3 4130
1.867
A10-5800K
1.922
FX-8150
1.924
A10-7850K #2
2.025
A10-7870K
2.033
Core i5 3210M
2.115
Core i7 4960X
2.126
2 x Xeon E5540
2.177
FX-8370E
2.179
Core i7 4600U
2.284
Core i3 5010U
2.329
FX-8370
2.756
Core i7 4770K
2.948
FX-8350 on Gigabyte 990FXA UD3
2.953
Core i5 4670
3.056
Xeon E3-1270 v5
3.142
Xeon E3-1260L v5
3.440
Pentium G4400
3.699
Core i7 3770K
3.861
Xeon E3-1235L v5
4.017
Core i7 4790K
4.372
Core i7 5960X Haswell-E
4.619

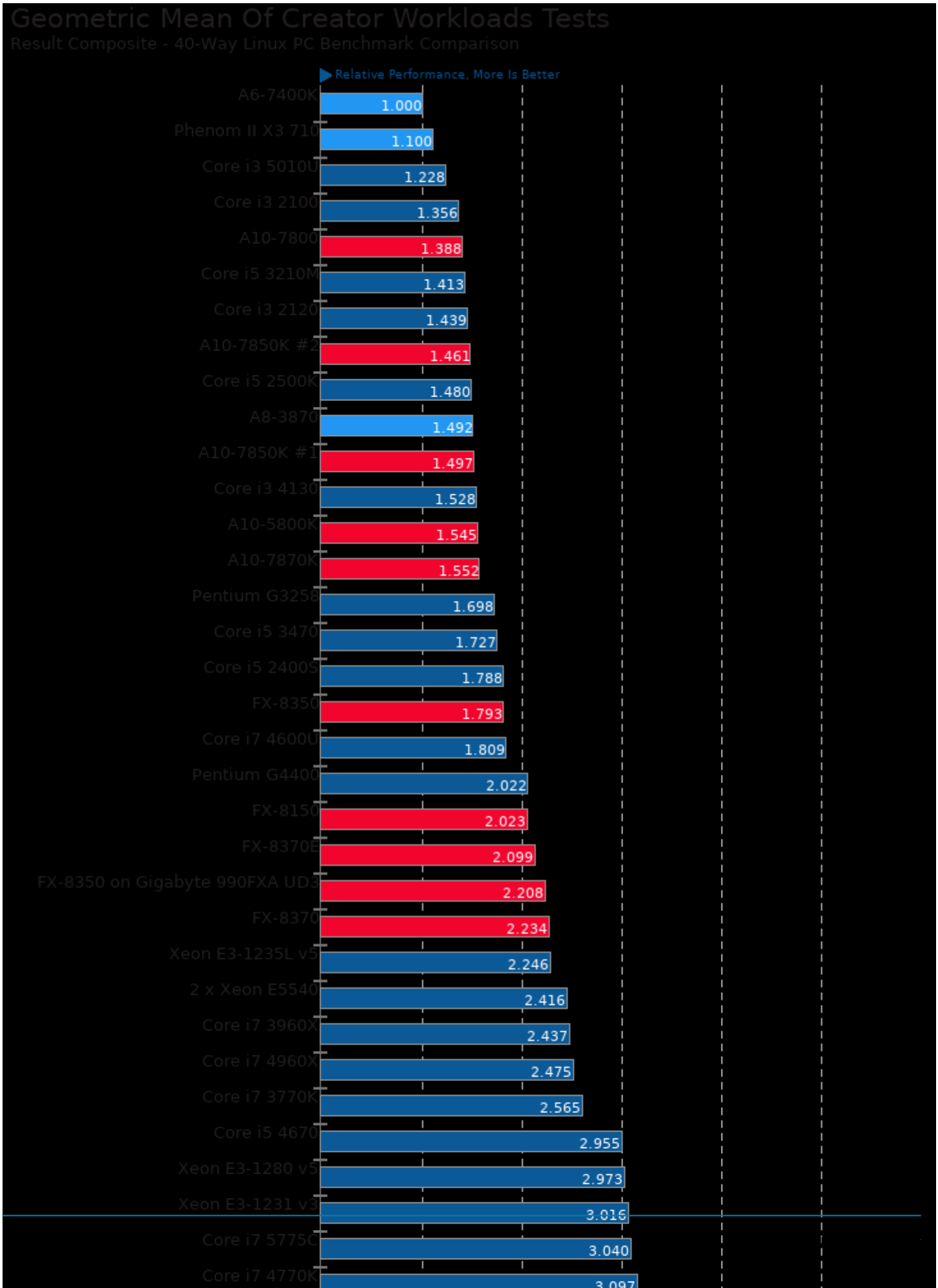
40-Way Linux PC Benchmark Comparison

Geometric mean based upon tests: pts/himeno, pts/c-ray, pts/encode-flac, pts/pgbench, pts/apache and pts/lammps


Geometric Mean Of CPU Massive Tests
Result Composite - 40-Way Linux PC Benchmark Comparison
Relative Performance, More Is Better
Phenom II X3 710 1.000
A8-3870 1.228
Core i5 3470 1.270
A10-7800 1.300
A10-7850K #1 1.380
A6-7400K 1.420
Core i3 2100 1.428
Core i7 4960X 1.433
FX-8350 1.440
Core i3 2120 1.510
Core i5 2500K 1.551
FX-8370 1.602
FX-8150 1.650
A10-7870K 1.680
A10-7850K #2 1.689
Core i5 2400S 1.706
A10-5800K 1.713
FX-8370E 1.834
Core i5 3210M 1.859
Pentium G3258 1.867
Core i3 4130 1.888
2 x Xeon E5540 1.916
Core i3 5010U 2.002
Core i7 4600U 2.175
FX-8350 on Gigabyte 990FXA UD3 2.249
Core i7 5960X Haswell-E 2.431
Core i7 5960X 2.445
Core i7 4770K 2.754
Core i5 4670 2.781
Xeon E5-2687W v3 2.824
Xeon E3-1270 v5 3.088
Core i7 3770K 3.134
Xeon E3-1260L v5 3.235
Xeon E3-1235L v5 3.281

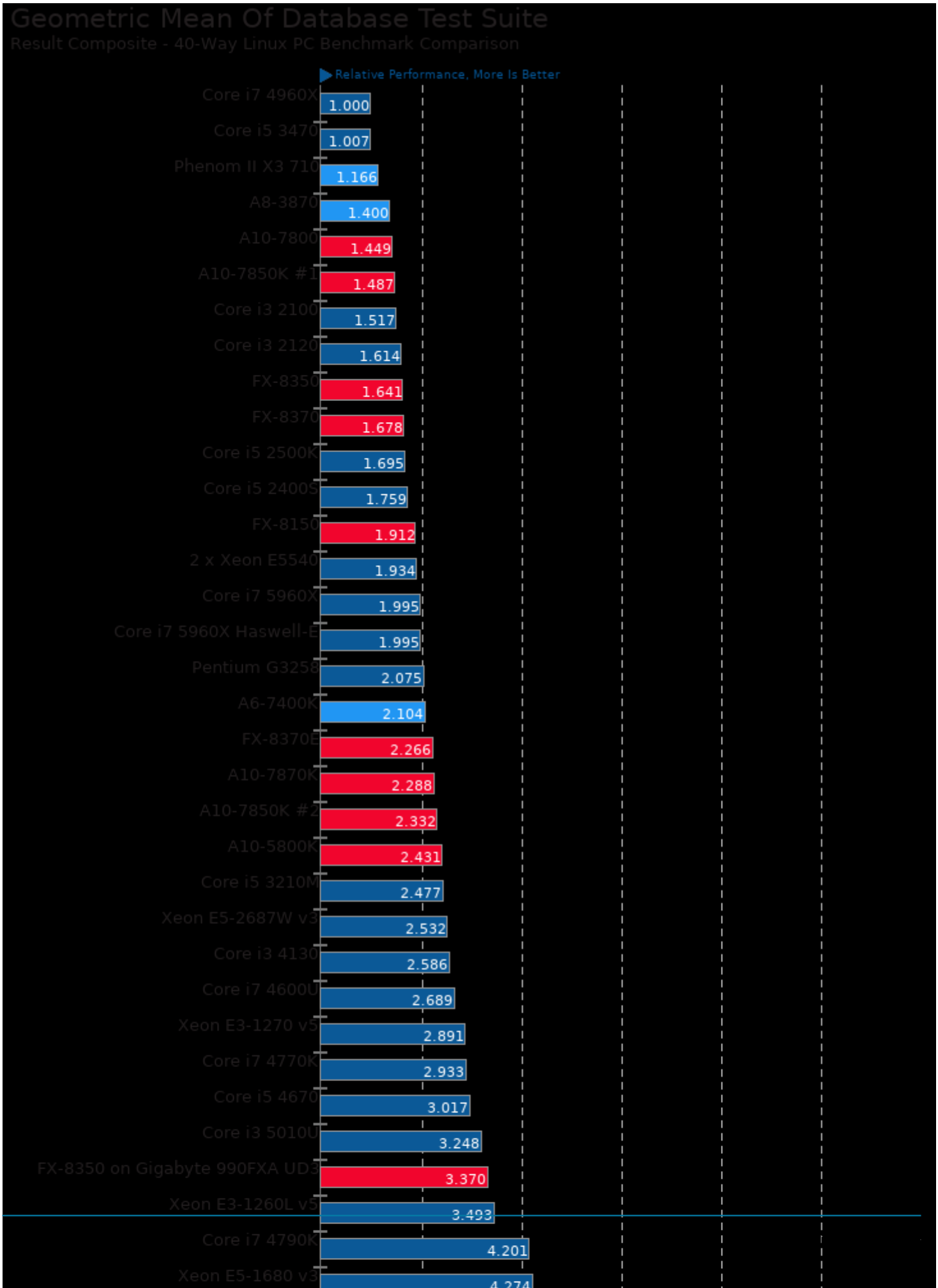
40-Way Linux PC Benchmark Comparison

Geometric mean based upon tests: pts/apache, pts/build-linux-kernel, pts/c-ray, pts/encode-flac, pts/himeno, pts/lammps, pts/pgbench and pts/redis


Geometric Mean Of Creator Workloads Tests
Result Composite - 40-Way Linux PC Benchmark Comparison
Relative Performance, More Is Better
A6-7400K
1.000
Phenom II X3 710
1.100
Core i3 5010U
1.228
Core i3 2100
1.356
A10-7800
1.388
Core i5 3210M
1.413
Core i3 2120
1.439
A10-7850K #2
1.461
Core i5 2500K
1.480
A8-3870
1.492
A10-7850K #1
1.497
Core i3 4130
1.528
A10-5800K
1.545
A10-7870K
1.552
Pentium G3258
1.698
Core i5 3470
1.727
Core i5 2400S
1.788
FX-8350
1.793
Core i7 4600U
1.809
Pentium G4400
2.022
FX-8150
2.023
FX-8370E
2.099
FX-8350 on Gigabyte 990FXA UD3
2.208
FX-8370
2.234
Xeon E3-1235L v5
2.246
2 x Xeon E5540
2.416
Core i7 3960X
2.437
Core i7 4960X
2.475
Core i7 3770K
2.565
Core i5 4670
2.955
Xeon E3-1280 v5
2.973
Xeon E3-1231 v3
3.016
Core i7 5775C
3.040
Core i7 4770K
3.097

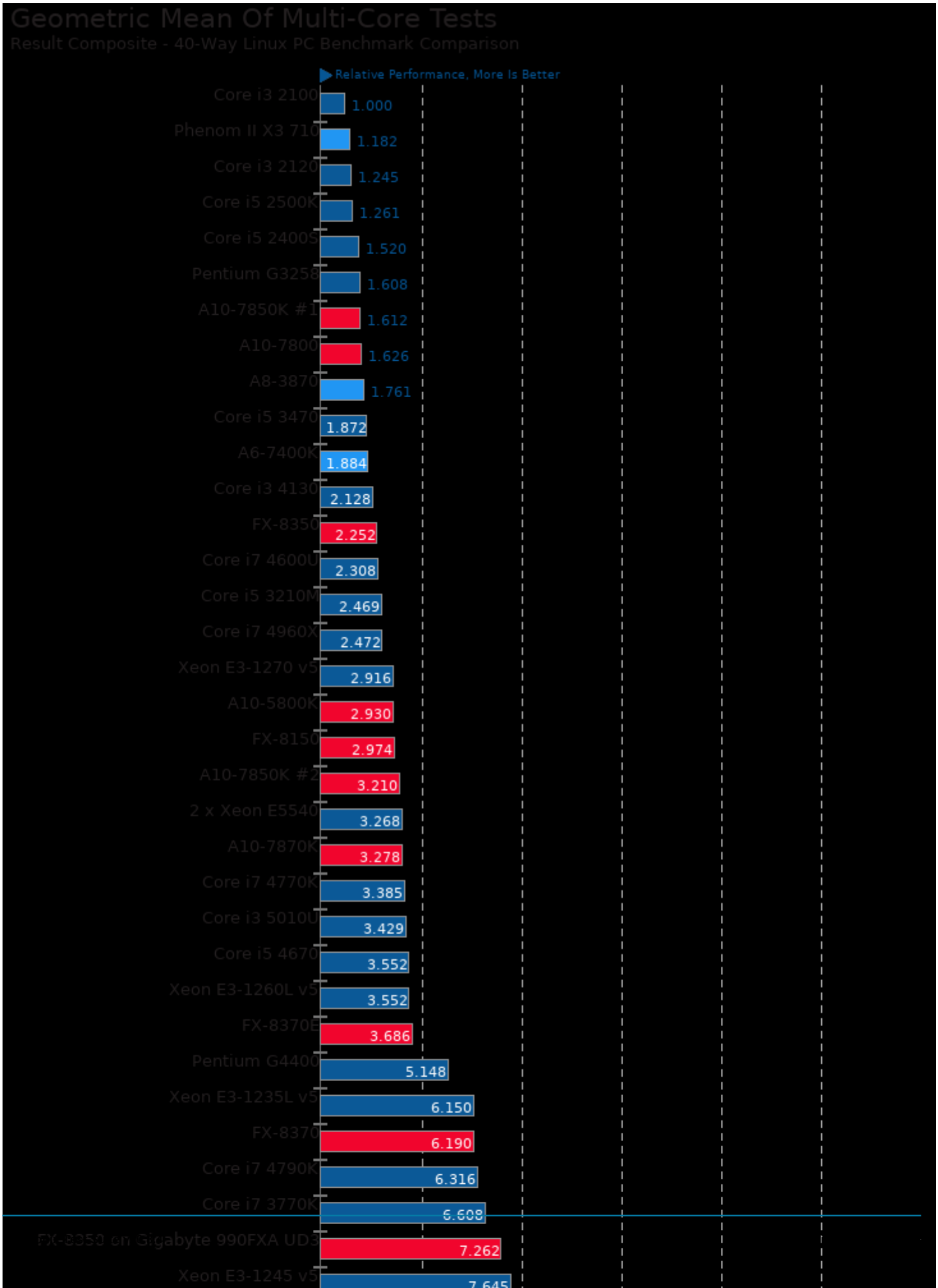
40-Way Linux PC Benchmark Comparison

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


Geometric Mean Of Database Test Suite
Result Composite - 40-Way Linux PC Benchmark Comparison
Relative Performance, More Is Better
Core i7 4960X 1.000
Core i5 3470 1.007
Phenom II X3 710 1.166
A8-3870 1.400
A10-7800 1.449
A10-7850K #1 1.487
Core i3 2100 1.517
Core i3 2120 1.614
FX-8350 1.641
FX-8370 1.678
Core i5 2500K 1.695
Core i5 2400S 1.759
FX-8150 1.912
2 x Xeon E5540 1.934
Core i7 5960X 1.995
Core i7 5960X Haswell-E 1.995
Pentium G3258 2.075
A6-7400K 2.104
FX-8370E 2.266
A10-7870K 2.288
A10-7850K #2 2.332
A10-5800K 2.431
Core i5 3210M 2.477
Xeon E5-2687W v3 2.532
Core i3 4130 2.586
Core i7 4600U 2.689
Xeon E3-1270 v5 2.891
Core i7 4770K 2.933
Core i5 4670 3.017
Core i3 5010U 3.248
FX-8350 on Gigabyte 990FXA UD3 3.370
Xeon E3-1260L v5 3.493
Core i7 4790K 4.201
Xeon E5-1680 v3 4.274

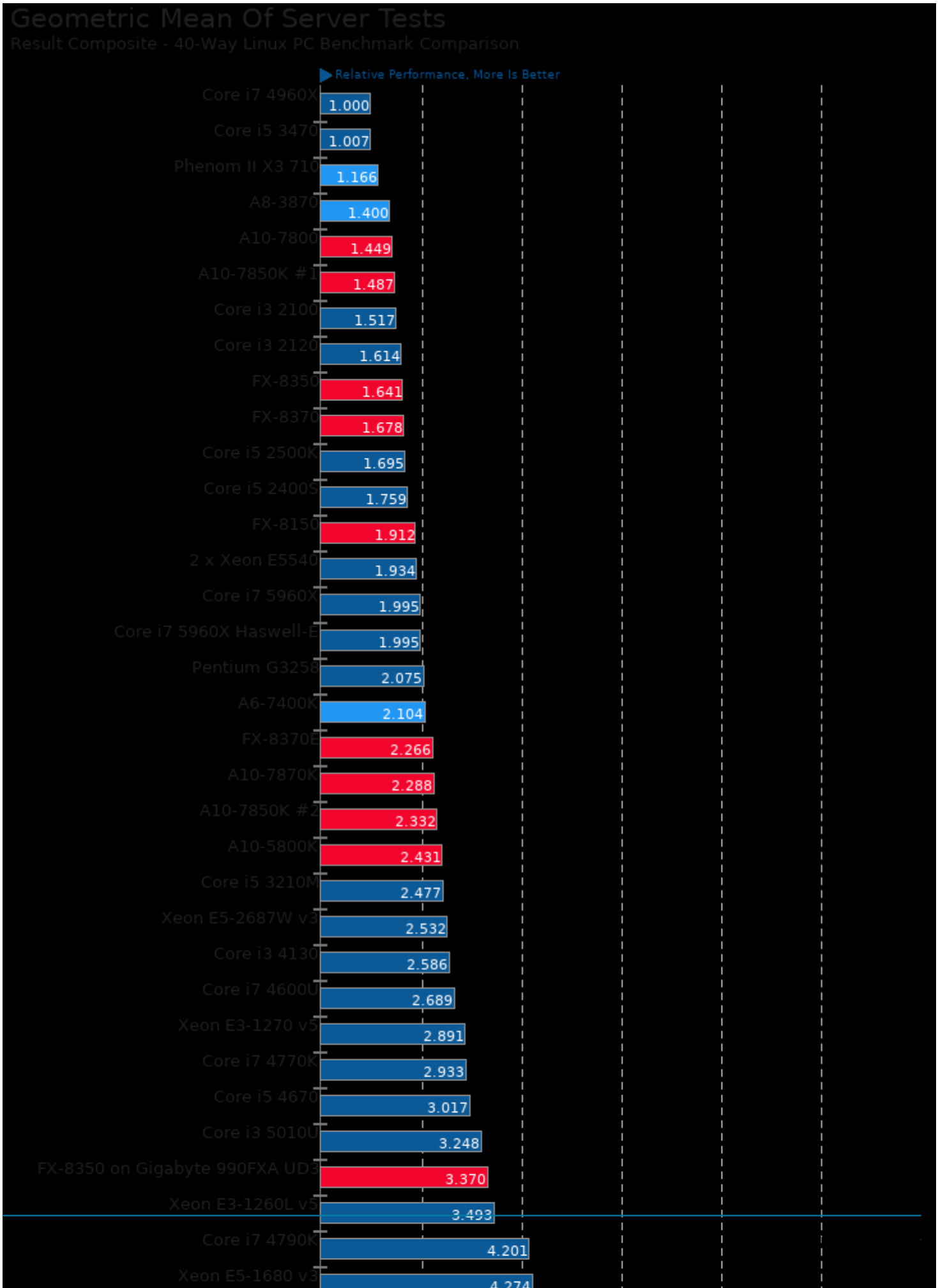
40-Way Linux PC Benchmark Comparison

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


Geometric Mean Of Multi-Core Tests
Result Composite - 40-Way Linux PC Benchmark Comparison
Relative Performance, More Is Better
Core i3 2100 1.000
Phenom II X3 710 1.182
Core i3 2120 1.245
Core i5 2500K 1.261
Core i5 2400S 1.520
Pentium G3258 1.608
A10-7850K #1 1.612
A10-7800 1.626
A8-3870 1.761
Core i5 3470 1.872
A6-7400K 1.884
Core i3 4130 2.128
FX-8350 2.252
Core i7 4600U 2.308
Core i5 3210M 2.469
Core i7 4960X 2.472
Xeon E3-1270 v5 2.916
A10-5800K 2.930
FX-8150 2.974
A10-7850K #2 3.210
2 x Xeon E5540 3.268
A10-7870K 3.278
Core i7 4770K 3.385
Core i3 5010U 3.429
Core i5 4670 3.552
Xeon E3-1260L v5 3.552
FX-8370E 3.686
Pentium G4400 5.148
Xeon E3-1235L v5 6.150
FX-8370 6.190
Core i7 4790K 6.316
Core i7 3770K 6.608
FX-8350 on Gigabyte 990FXA UD3 7.262
Xeon E3-1245 v5 7.645

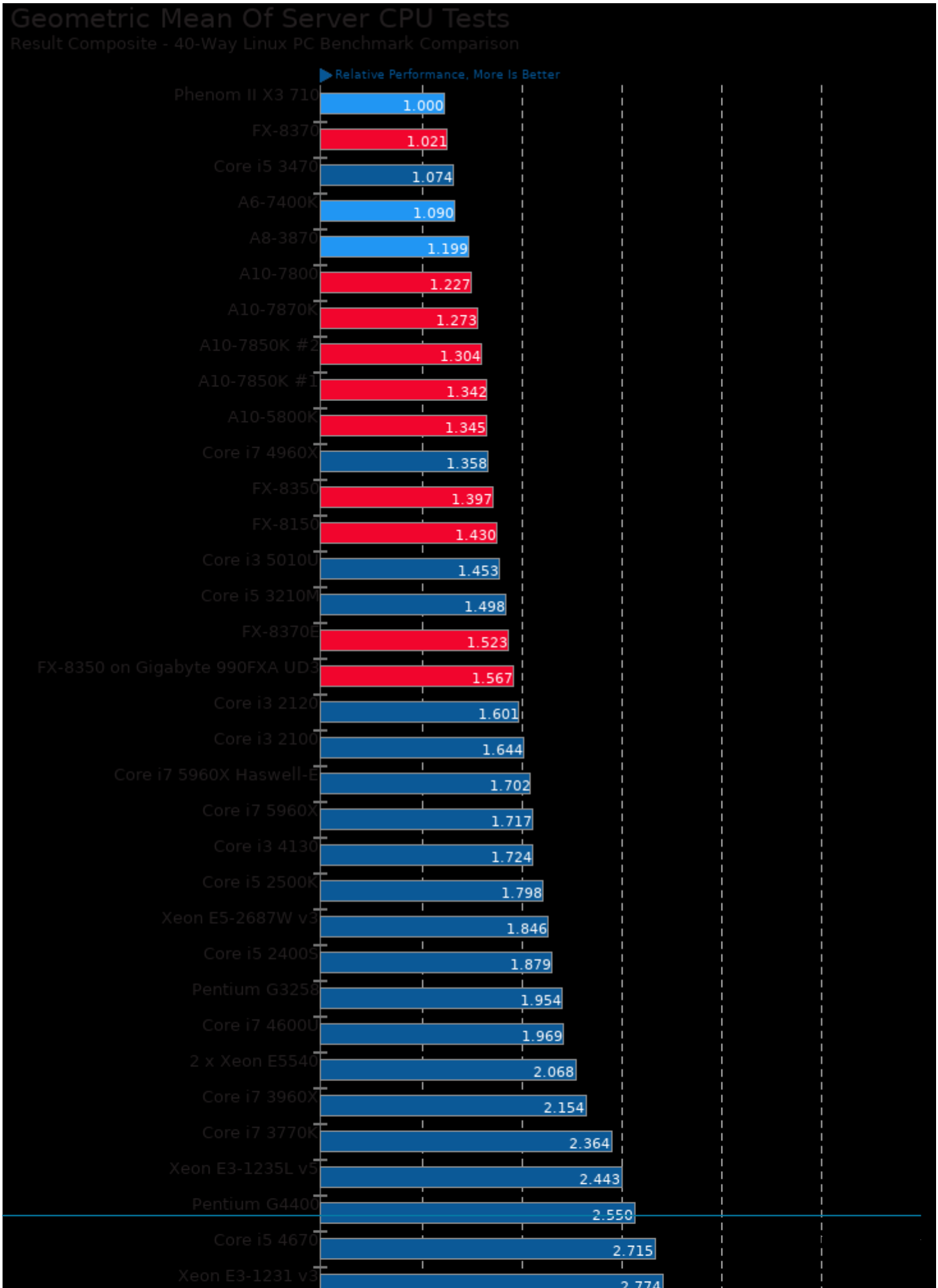
40-Way Linux PC Benchmark Comparison

Geometric mean based upon tests: pts/c-ray, pts/lammps, pts/build-linux-kernel and pts/pgbench


Geometric Mean Of Server Tests
Result Composite - 40-Way Linux PC Benchmark Comparison
Relative Performance, More Is Better
Core i7 4960X 1.000
Core i5 3470 1.007
Phenom II X3 710 1.166
A8-3870 1.400
A10-7800 1.449
A10-7850K #1 1.487
Core i3 2100 1.517
Core i3 2120 1.614
FX-8350 1.641
FX-8370 1.678
Core i5 2500K 1.695
Core i5 2400S 1.759
FX-8150 1.912
2 x Xeon E5540 1.934
Core i7 5960X 1.995
Core i7 5960X Haswell-E 1.995
Pentium G3258 2.075
A6-7400K 2.104
FX-8370E 2.266
A10-7870K 2.288
A10-7850K #2 2.332
A10-5800K 2.431
Core i5 3210M 2.477
Xeon E5-2687W v3 2.532
Core i3 4130 2.586
Core i7 4600U 2.689
Xeon E3-1270 v5 2.891
Core i7 4770K 2.933
Core i5 4670 3.017
Core i3 5010U 3.248
FX-8350 on Gigabyte 990FXA UD3 3.370
Xeon E3-1260L v5 3.493
Core i7 4790K 4.201
Xeon E5-1680 v3 4.274

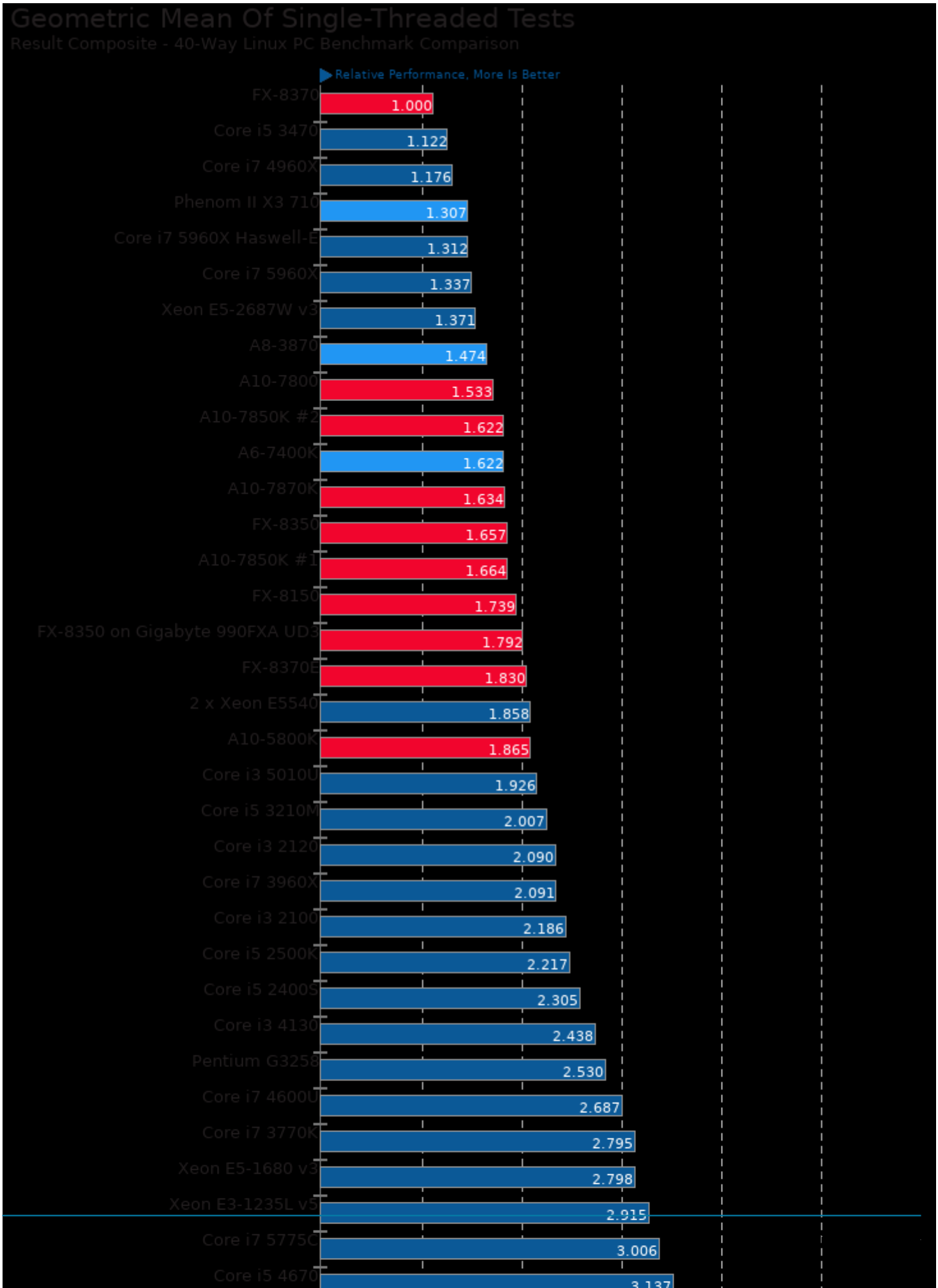
40-Way Linux PC Benchmark Comparison

Geometric mean based upon tests: pts/apache, pts/pgbench, pts/redis and pts/sqlite


Geometric Mean Of Server CPU Tests
Result Composite - 40-Way Linux PC Benchmark Comparison
Relative Performance, More Is Better
Phenom II X3 710
1.000
FX-8370
1.021
Core i5 3470
1.074
A6-7400K
1.090
A8-3870
1.199
A10-7800
1.227
A10-7870K
1.273
A10-7850K #2
1.304
A10-7850K #1
1.342
A10-5800K
1.345
Core i7 4960X
1.358
FX-8350
1.397
FX-8150
1.430
Core i3 5010U
1.453
Core i5 3210M
1.498
FX-8370E
1.523
FX-8350 on Gigabyte 990FXA UD3
1.567
Core i3 2120
1.601
Core i3 2100
1.644
Core i7 5960X Haswell-E
1.702
Core i7 5960X
1.717
Core i3 4130
1.724
Core i5 2500K
1.798
Xeon E5-2687W v3
1.846
Core i5 2400S
1.879
Pentium G3258
1.954
Core i7 4600U
1.969
2 x Xeon E5540
2.068
Core i7 3960X
2.154
Core i7 3770K
2.364
Xeon E3-1235L v5
2.443
Pentium G4400
2.550
Core i5 4670
2.715
Xeon E3-1231 v3
2.774

40-Way Linux PC Benchmark Comparison

Geometric mean based upon tests: pts/himeno, pts/build-linux-kernel, pts/c-ray and pts/redis


Geometric Mean Of Single-Threaded Tests
Result Composite - 40-Way Linux PC Benchmark Comparison
Relative Performance, More Is Better
FX-8370 1.000
Core i5 3470 1.122
Core i7 4960X 1.176
Phenom II X3 710 1.307
Core i7 5960X Haswell-E 1.312
Core i7 5960X 1.337
Xeon E5-2687W v3 1.371
A8-3870 1.474
A10-7800 1.533
A10-7850K #2 1.622
A6-7400K 1.622
A10-7870K 1.634
FX-8350 1.657
A10-7850K #1 1.664
FX-8150 1.739
FX-8350 on Gigabyte 990FXA UD3 1.792
FX-8370E 1.830
2 x Xeon E5540 1.858
A10-5800K 1.865
Core i3 5010U 1.926
Core i5 3210M 2.007
Core i3 2120 2.090
Core i7 3960X 2.091
Core i3 2100 2.186
Core i5 2500K 2.217
Core i5 2400S 2.305
Core i3 4130 2.438
Pentium G3258 2.530
Core i7 4600U 2.687
Core i7 3770K 2.795
Xeon E5-1680 v3 2.798
Xeon E3-1235L v5 2.915
Core i7 5775C 3.006
Core i5 4670 3.137

40-Way Linux PC Benchmark Comparison

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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 22:39.