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Intel AMD 39-way Linux Processor Benchmarks

The Intel Xeon E3 v5 Skylake benchmarks plus various other systems in the lab added in for reference. Tests by Michael Larabel for Phoronix. Note there are hardware/software differences in the non Skylake Xeon setups but still is a fun comparison for reference.

Automated Executive Summary

Intel Xeon E5-2687W v3 had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (Intel Xeon E5-2687W v3) was 12.642x the speed of the slowest (Athlon 5150).

Test Systems:

Intel Core i7-5960X

Processor: Intel Core i7-5960X @ 3.50GHz (16 Cores), Motherboard: Gigabyte X99-UD4-CF, Chipset: Intel Xeon E7 v3/Xeon, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: eVGA NVIDIA GeForce GTX 750 1024MB,

Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: nouveau 1.0.12, OpenGL: 3.3 Mesa 11.2.0-devel (git-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave

Intel 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: 16384MB, Disk: 120GB OCZ TRION150, Graphics: LLVMpipe, Audio: Realtek ALC887-VD, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: modesetting 1.17.3, OpenGL: 3.3 Mesa 11.2.0-devel (git-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, File-System: ext4, Screen Resolution: 1600x1200

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
Processor Notes: Scaling Governor: intel_pstate powersave

Intel Xeon E5-1680 v3

Processor: Intel Xeon E5-1680 v3 @ 3.80GHz (16 Cores), Motherboard: ASUS X99-A, Chipset: Intel Xeon E7 v3/Xeon, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: eVGA NVIDIA GeForce GT 740 1024MB, Audio: Realtek ALC1150, Monitor: DELL S2409W, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: nouveau 1.0.12, OpenGL: 4.1 Mesa 11.2.0-devel (git-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, 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
Processor Notes: Scaling Governor: intel_pstate powersave

Intel 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: 120GB OCZ TRION150 + 80GB INTEL SSDSCKGW08, Graphics: AMD FirePro V7900 2048MB, Audio: Realtek ALC892, Monitor: ASUS PB278, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, File-System: ext4, Screen Resolution: 2560x1440

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
Processor Notes: Scaling Governor: intel_pstate powersave

Intel Xeon E3-1220 v5

Processor: Intel Xeon E3-1220 v5 @ 3.50GHz (4 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Intel Xeon E3-1230 v5

Processor: Intel Xeon E3-1230 v5 @ 3.80GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave

Intel Xeon E3-1235L v5

Processor: Intel Xeon E3-1235L v5 @ 3.00GHz (4 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave

Intel Xeon E3-1240 v5

Processor: Intel Xeon E3-1240 v5 @ 3.90GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Intel Xeon E3-1240L v5

Processor: Intel Xeon E3-1240L v5 @ 3.20GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Intel Xeon E3-1245 v5

Processor: Intel Xeon E3-1245 v5 @ 3.90GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave

Intel Xeon E3-1260L v5

Processor: Intel Xeon E3-1260L v5 @ 3.90GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Intel Xeon E3-1270 v5

Processor: Intel Xeon E3-1270 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 120GB OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Intel 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 OCZ TRION150, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1150, Monitor: DELL P2415Q, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 xenial-oibaf-ppa) Gallium 0.4, OpenCL: OpenCL 1.2 beignet 1.1.1, Compiler: GCC 5.3.1 20160211, 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
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

AMD FX-8370

Processor: AMD FX-8370 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASRock 990FX Killer, Chipset: AMD RD890 bridge, Memory: 16384MB, Disk: 120GB SPCC Solid State, Graphics: AMD FirePro V8700 1024MB, Audio: Realtek ALC1150, Monitor: VE228, Network: Qualcomm Atheros Killer E220x Gigabit

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, 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-ff360a5 2016-02-22 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
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

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: 4.5.0-999-generic (x86_64) 20160224, 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
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: 4.5.0-999-generic (x86_64) 20160224, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: radeon 7.6.1, OpenGL: 4.1 Mesa 11.3.0-devel (git-d1509a5 2016-02-25 xenial-oibaf-ppa) Gallium 0.4, Compiler: GCC 5.3.1 20160222, 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
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: 4.5.0-999-generic (x86_64) 20160224, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: radeon 7.6.1, OpenGL: 4.1 Mesa 11.3.0-devel (git-d1509a5 2016-02-25 xenial-oibaf-ppa) Gallium 0.4, Compiler: GCC 5.3.1 20160222, 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
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

A10-7850K

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: 4.5.0-999-generic (x86_64) 20160224, 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
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: 4.5.0-0.rc4.git2.2.fc24.x86_64 (x86_64) 20160218, 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 20151207, 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
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 6.0.0 20160225, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
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: 4.5.0-999-generic (x86_64) 20160224, 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
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

Athlon 5150

Processor: AMD Athlon 5150 APU with Radeon R3 @ 1.60GHz (4 Cores), Motherboard: Gigabyte AM1M-S2H, Chipset: AMD Family 16h Root Complex, Memory: 1 x 4096 MB DDR3-1600MHz, Disk: 250GB Seagate ST3250310AS, Graphics: Gigabyte AMD Radeon HD 8400 / R3 512MB (267MHz), Audio: AMD Kabini HDMI/DP, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 3.19.0-18-generic (x86_64), Compiler: GCC 6.0.0 20160225, File-System: btrfs, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
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: 4.5.0-999-generic (x86_64) 20160224, 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
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: 1830GB, Graphics: Intel HD 2000 (1100MHz), Audio: Realtek ALC662 rev1, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.10, Kernel: 4.5.0-999-generic (x86_64) 20160224, 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
Processor Notes: Scaling Governor: intel_pstate powersave

Core i3 370M

Processor: Intel Core i3 370M @ 2.40GHz (4 Cores), Motherboard: ASRock HM55-MXM, Chipset: Intel Core DRAM, Memory: 2 x 2048 MB SDRAM, Disk: 500GB Western Digital WD5000BEKT-8, Graphics: NVIDIA GeForce GT 425M 512MB, Audio: Realtek ALC889A, Monitor: DELL S2409W + VE228, Network: Realtek RTL8111/8168/8411

OS: Fedora 21, Kernel: 4.1.13-100.fc21.x86_64 (x86_64), Display Server: X Server 1.16.3, Display Driver: nouveau 1.0.11, OpenGL: 3.3 Mesa 10.4.7 Gallium 0.4, Compiler: GCC 4.9.2 20150212, File-System: ext4, 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-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-linker-hash-style=gnu --with-tune=generic
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
System Notes: SELinux: Enabled.

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, Monitor: SAMSUNG, 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 6.0.0 20160225, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Processor Notes: Scaling Governor: intel_pstate powersave

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 6.0.0 20160225, File-System: xfs, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Processor Notes: Scaling Governor: intel_pstate powersave

Core i5 2500K

Processor: Intel Core i5-2500K @ 3.70GHz (4 Cores), Motherboard: SAPPHIRE Pure Black P67 Hydra, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 2 x 2048 MB DDR3-1333MHz, Disk: 120GB SanDisk SDSSDA12, Graphics: ASUS AMD Radeon HD 4890 1024MB (900/975MHz), Audio: Realtek ALC892, Network: Marvell 88E8057 PCI-E Gigabit

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160224, Desktop: Unity 7.4.0, Display Server: X Server 1.17.3, Display Driver: radeon 7.6.1, OpenGL: 3.3 Mesa 11.1.2 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
Processor Notes: Scaling Governor: intel_pstate powersave

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: 4.5.0-999-generic (x86_64) 20160224, 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
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 6.0.0 20160225, File-System: btrfs, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Processor Notes: Scaling Governor: intel_pstate powersave

Core i7 3960X

Processor: Intel Core i7-3960X @ 2.62GHz (12 Cores), Motherboard: Intel DX79SI, Chipset: Intel Xeon E5/Core, Memory: 2 x 4096 MB DDR3-1600MHz, Disk: 120GB KINGSTON SV300S3, Graphics: Sapphire AMD Radeon HD 6770 1024MB (157/300MHz), Audio: Realtek ALC892, Network: Intel 82579LM Gigabit Connection

OS: Ubuntu 15.10, Kernel: 4.5.0-999-generic (x86_64) 20160224, Desktop: Unity, Display Server: X Server 1.17.2, Display Driver: radeon 7.6.99, OpenGL: 3.3 Mesa 11.2.0-devel (git-30fcf24 2016-01-29 wily-oibaf-ppa) 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
Processor Notes: Scaling Governor: intel_pstate powersave

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: 4.5.0-999-generic (x86_64) 20160224, 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-d1509a5 2016-02-25 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
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: 4.5.0-0.rc4.git2.2.fc24.x86_64 (x86_64) 20160218, 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 20151207, 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
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: CFQ. 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: 4.5.0-999-generic (x86_64) 20160224, 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
Processor Notes: Scaling Governor: intel_pstate powersave

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 DDR3-65535MHz, Disk: 120GB CT120BX100SSD1, Graphics: Intel Broadwell-U (1150MHz), Audio: Intel Broadwell-U Audio, Network: Qualcomm Atheros Killer E220x Gigabit

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160224, 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
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: 4.5.0-999-generic (x86_64) 20160224, 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
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 6.0.0 20160225, File-System: btrfs, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

Pentium G4400

Processor: Intel Pentium G4400 @ 3.30GHz (2 Cores), Motherboard: Gigabyte H110M-A-CF, Chipset: Intel Sky Lake, Memory: 8192MB, Disk: 120GB Samsung SSD 850, Graphics: Intel Device 1902 (1000MHz), Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Clear Linux 6430, Kernel: 4.4.2-171.native (x86_64), Compiler: GCC 5.3.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-generic-linux --disable-multiarch --disable-multilib --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --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-ppl=no --with-system-libunwind --with-tune=haswell
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 6.0.0 20160225, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --disable-multilib --enable-checking=release --enable-languages=c,c++,fortran
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

AMD FX-8320 xpander

Processor: AMD FX-8320 Eight-Core @ 4.40GHz (8 Cores), Motherboard: Gigabyte GA-970A-D3, Chipset: AMD RD890 bridge, Memory: 16384MB, Disk: 2 x 2000GB Seagate ST2000DM001-1CH1 + 128GB Samsung SSD 850 +

2000GB Seagate ST2000DM001-1ER1 + 500GB Samsung SSD 850, Graphics: ASUS NVIDIA GeForce GTX 970 4096MB (1113/3505MHz), Audio: NVIDIA GM204 HD Audio, Network: Realtek RTL8111/8168/8411

OS: Arch rolling, Kernel: 4.4.1-2-ARCH (x86_64), Desktop: MATE 1.12.1, Display Driver: NVIDIA 361.28, OpenGL: 4.5.0, Compiler: GCC 5.3.0 +, File-System: ext4, Screen Resolution: 3840x1080

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-libmpx --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance

AMD FX-8320 sterky

Processor: AMD FX-8320 Eight-Core @ 4.40GHz (8 Cores), Motherboard: Gigabyte 990XA-UD3, Chipset: AMD RD890 bridge, Memory: 16384MB, Disk: 128GB Samsung SSD 840 + 4001GB Seagate ST4000DM000-1F21, Graphics: MSI NVIDIA GeForce GTX 970 4096MB (135/324MHz), Audio: Realtek ALC889, Network: Realtek RTL8111/8168/8411

OS: Arch rolling, Kernel: 4.4.2-1-ARCH (x86_64), Desktop: MATE 1.12.1, Display Driver: NVIDIA 361.28, OpenGL: 4.5.0, Compiler: GCC 5.3.0 + Clang 3.7.1 + LLVM 3.7.1, File-System: ext4, Screen Resolution: 2560x1440

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-libmpx --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance

Core i7 4810MQ awatry

Processor: Intel Core i7-4810MQ @ 3.80GHz (8 Cores), Motherboard: LENOVO 20ANCTO1WW, Chipset: Intel Xeon E3-1200 v3/4th, Memory: 16384MB, Disk: 512GB SAMSUNG MZ7LN512, Graphics: Intel HD 4600 (1300MHz), Audio: Intel Xeon E3-1200 v3/4th, Network: Intel Connection I217-LM + Intel Wireless 7260

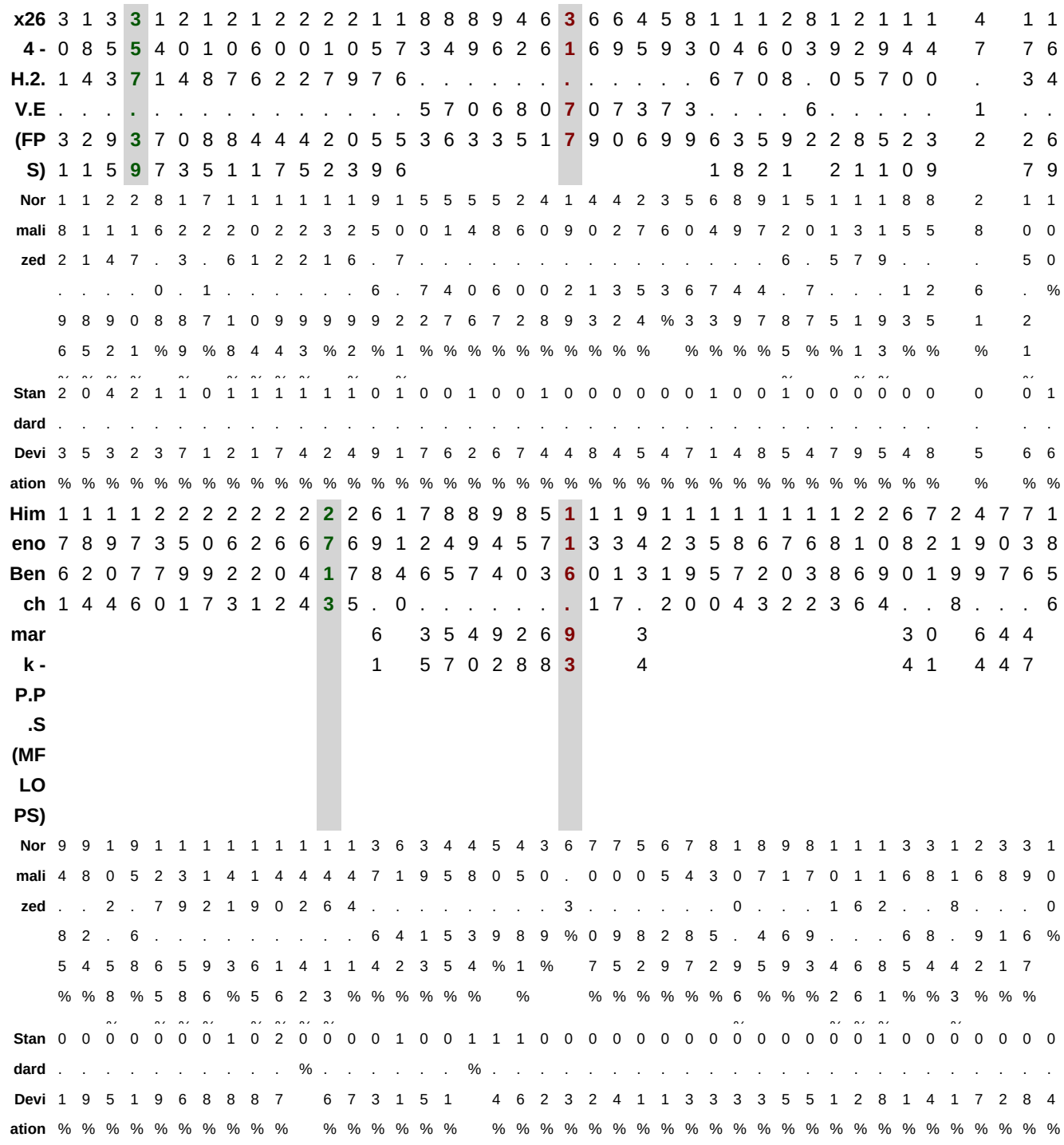
OS: Ubuntu 15.10, Kernel: 4.5.0-040500rc1-generic (x86_64), Desktop: GNOME Shell 3.16.4, Display Server: X Server 1.17.2, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.3.0-devel (git-aad48f8), Compiler: GCC 5.2.1 20151010, File-System: ext4, Screen Resolution: 3840x1080

Kernel Notes: i915.enable_fbc=1 i915.semaphores=1
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
Processor Notes: Scaling Governor: intel_pstate powersave

Intel AMD 39-way Linux Processor Benchmarks

| | Intel Core i7-5960X | Intel Core i3-6100 | Intel Core i5-6500 | Intel Core i5-6600K | Intel Core i7-7700K | Intel Core i7-8700K | Intel Core i3-8100 | Intel Core i5-8400 | Intel Core i5-8600K | Intel Core i7-8700K | Intel Core i9-9900K | Intel Core i9-10900K | AMD Ryzen 5 1600X | AMD Ryzen 7 1800X | AMD Ryzen 7 2700X | AMD Ryzen 5 2600X | AMD Ryzen 7 3700X | AMD Ryzen 9 3900X | AMD Ryzen 9 3950X | AMD Ryzen 9 3900XT

Intel AMD 39-way Linux Processor Benchmarks



Intel AMD 39-way Linux Processor Benchmarks

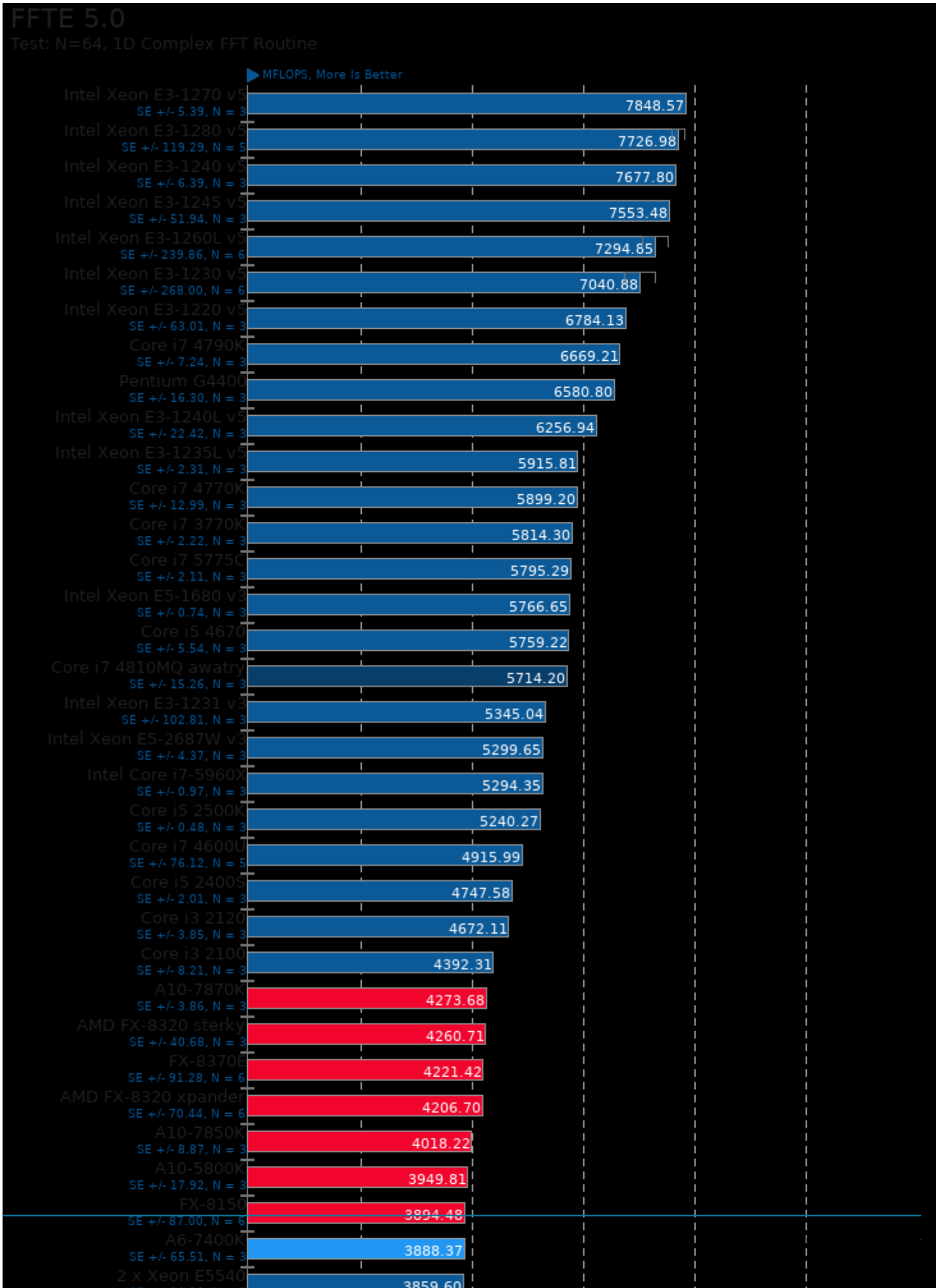
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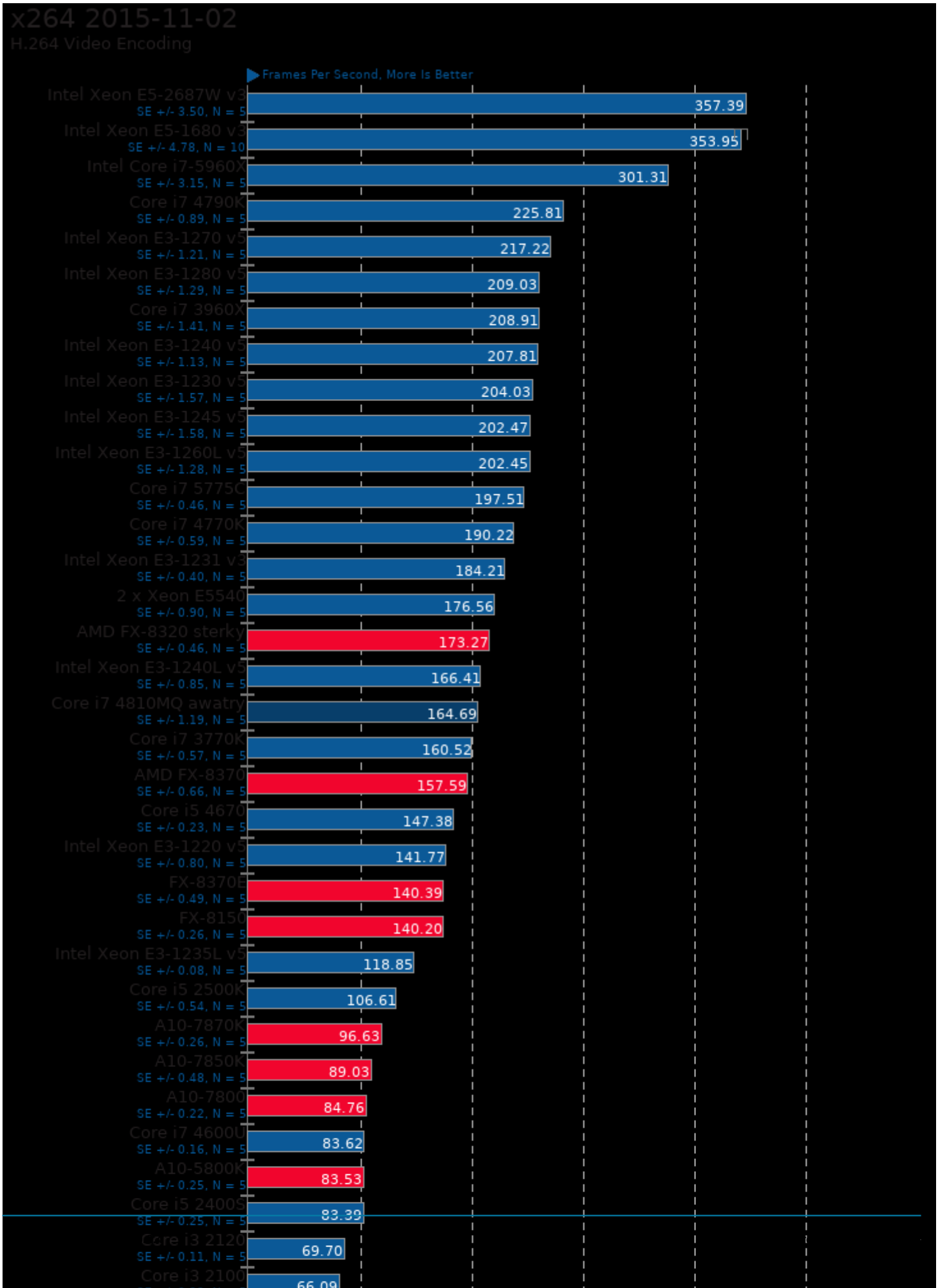
Intel AMD 39-way Linux Processor Benchmarks

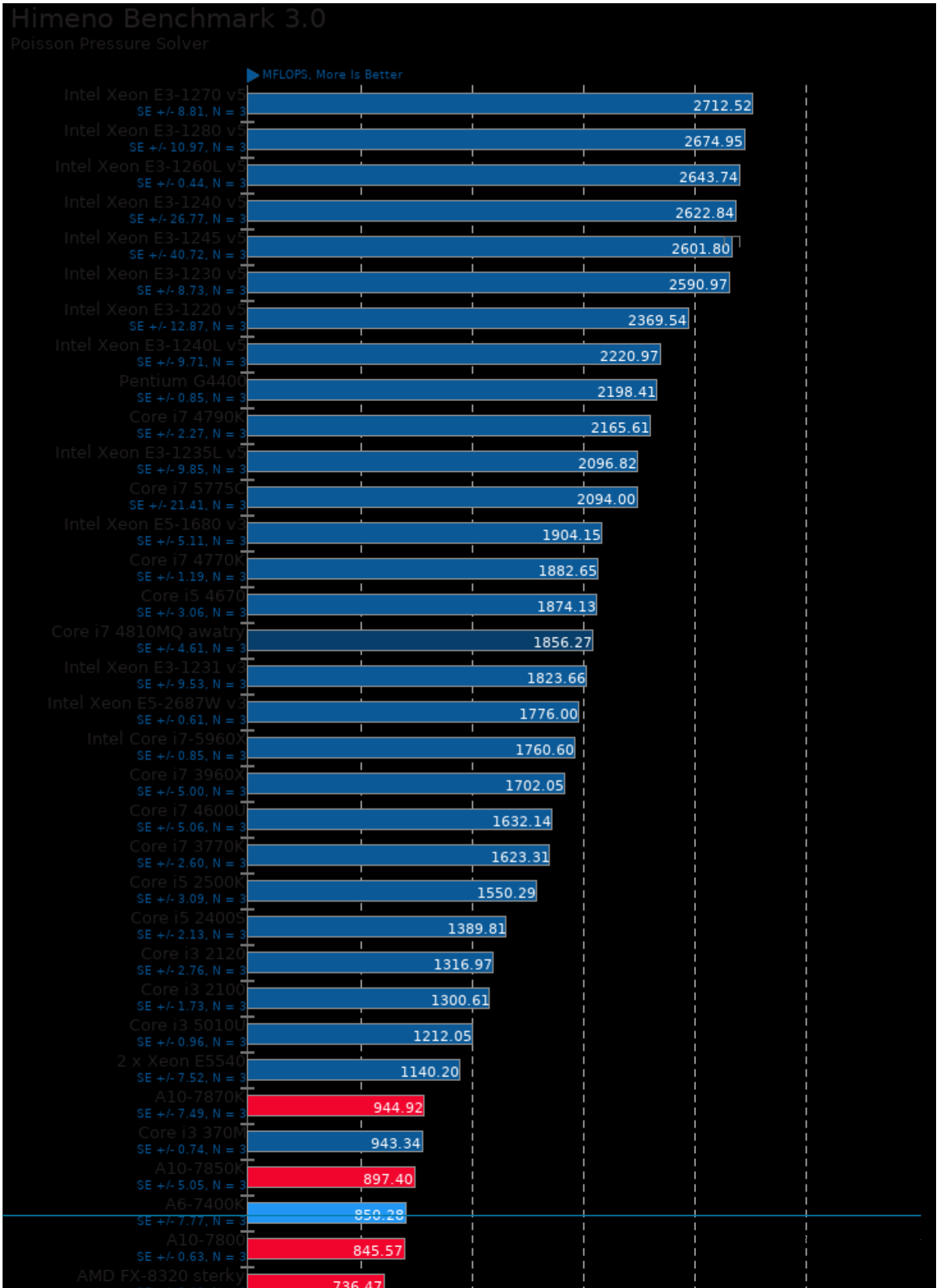


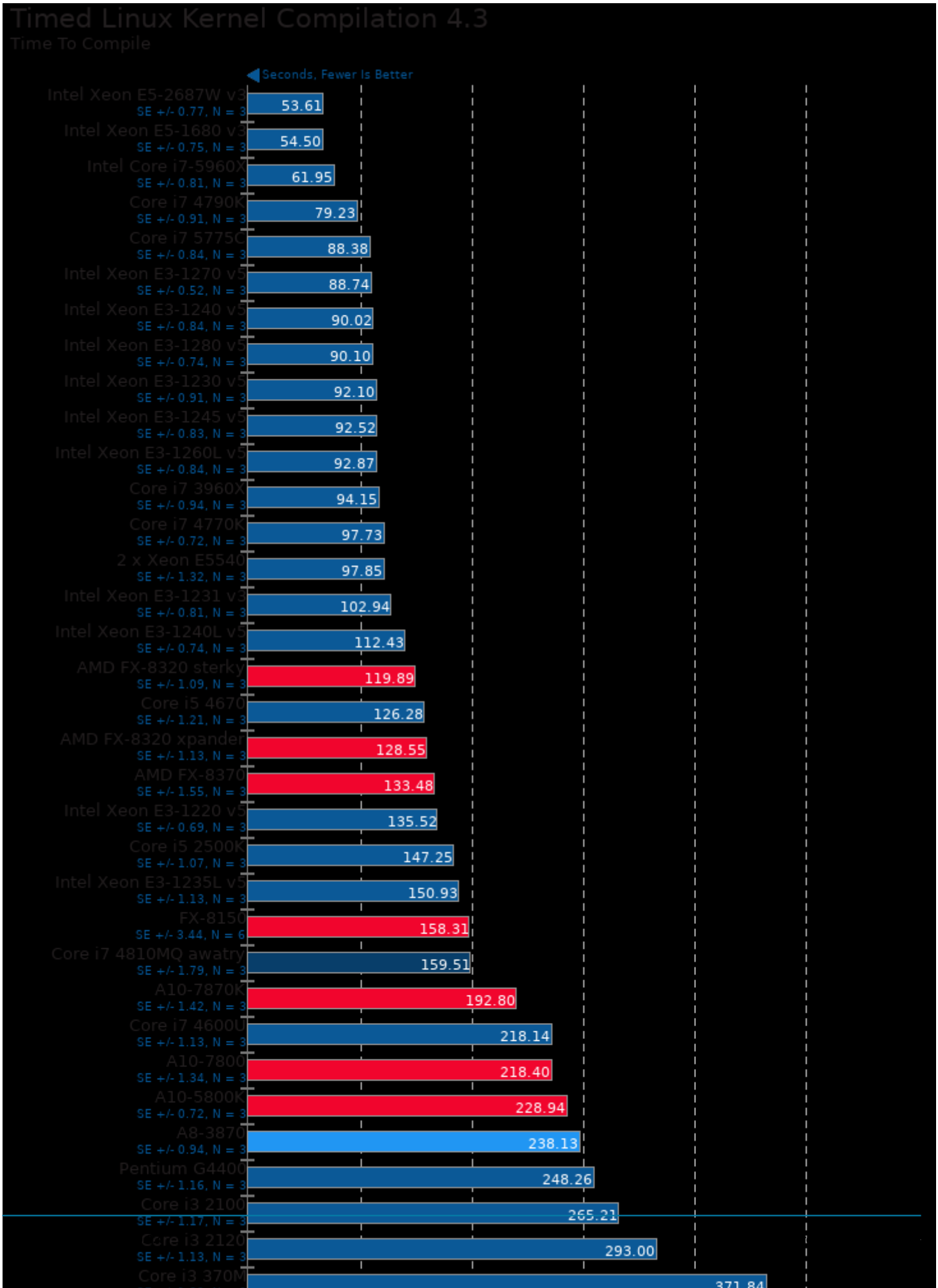
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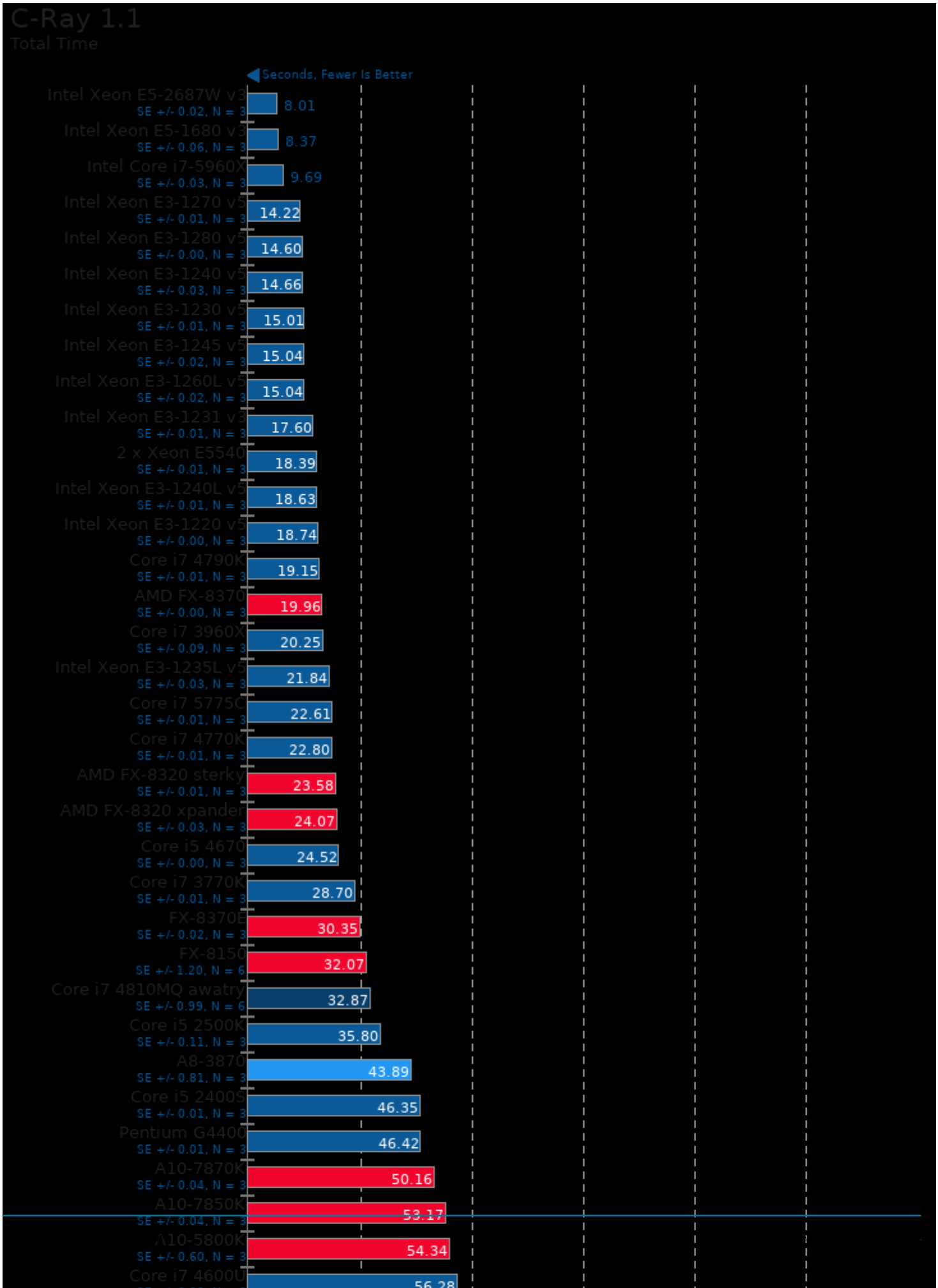
Intel AMD 39-way Linux Processor Benchmarks

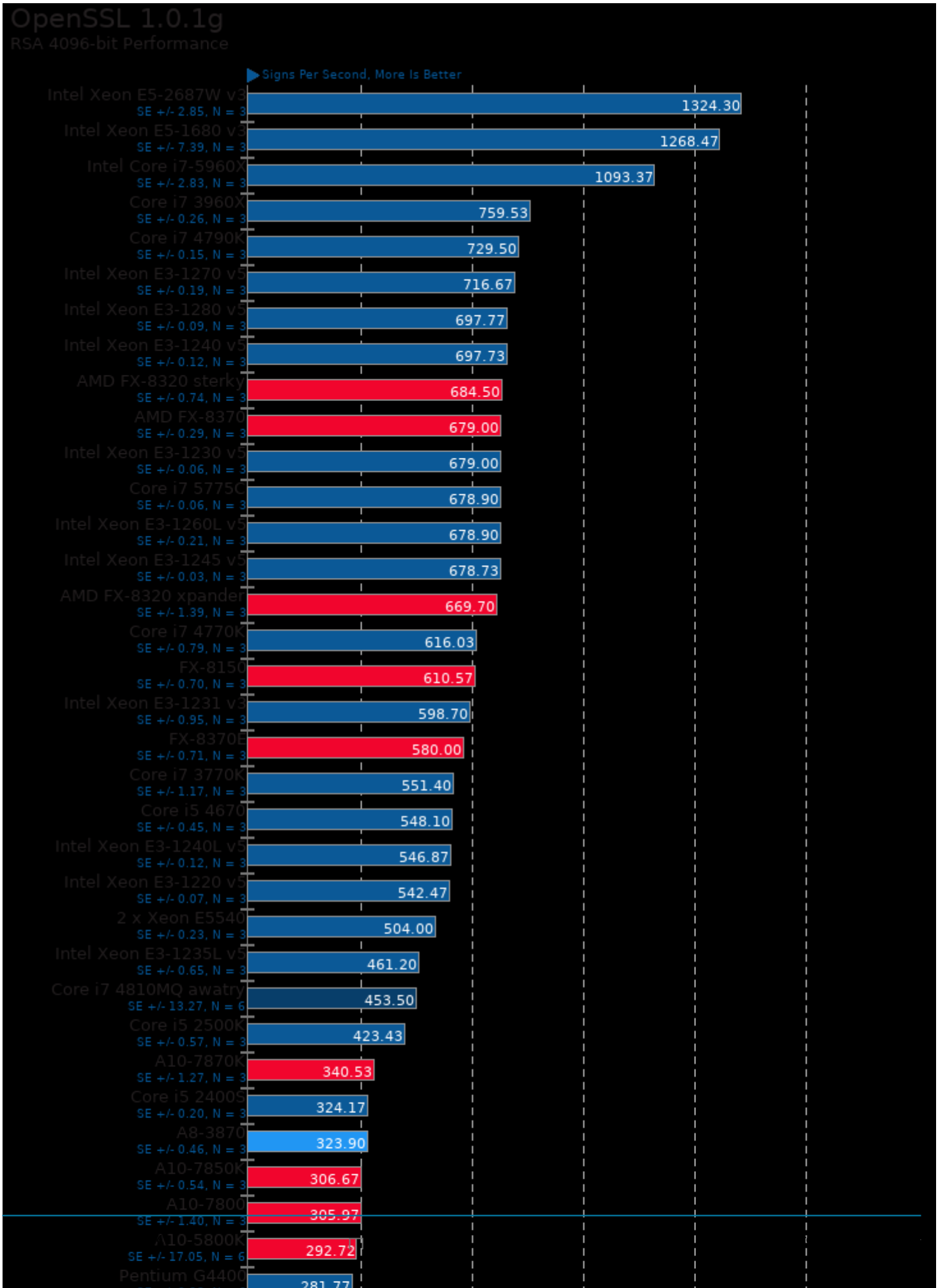

FFTE 5.0
Test: N=64, 1D Complex FFT Routine
MFLOPS, More Is Better
Intel Xeon E3-1270 v5
SE +/- 5.39, N = 3
7848.57
Intel Xeon E3-1280 v5
SE +/- 119.29, N = 5
7726.98
Intel Xeon E3-1240 v5
SE +/- 6.39, N = 3
7677.80
Intel Xeon E3-1245 v5
SE +/- 51.94, N = 3
7553.48
Intel Xeon E3-1260L v5
SE +/- 239.86, N = 6
7294.65
Intel Xeon E3-1230 v5
SE +/- 268.00, N = 6
7040.88
Intel Xeon E3-1220 v5
SE +/- 63.01, N = 3
6784.13
Core i7 4790K
SE +/- 7.24, N = 3
6669.21
Pentium G4400
SE +/- 16.30, N = 3
6580.80
Intel Xeon E3-1240L v5
SE +/- 22.42, N = 3
6256.94
Intel Xeon E3-1235L v5
SE +/- 2.31, N = 3
5915.81
Core i7 4770K
SE +/- 12.99, N = 3
5899.20
Core i7 3770K
SE +/- 2.22, N = 3
5814.30
Core i7 5775C
SE +/- 2.11, N = 3
5795.29
Intel Xeon E5-1680 v3
SE +/- 0.74, N = 3
5766.65
Core i5 4670
SE +/- 5.54, N = 3
5759.22
Core i7 4810MQ awatry
SE +/- 15.26, N = 3
5714.20
Intel Xeon E3-1231 v3
SE +/- 102.81, N = 3
5345.04
Intel Xeon E5-2687W v3
SE +/- 4.37, N = 3
5299.65
Intel Core i7-5960X
SE +/- 0.97, N = 3
5294.35
Core i5 2500K
SE +/- 0.48, N = 3
5240.27
Core i7 4600U
SE +/- 76.12, N = 5
4915.99
Core i5 2400S
SE +/- 2.01, N = 3
4747.58
Core i3 2120
SE +/- 3.85, N = 3
4672.11
Core i3 2100
SE +/- 8.21, N = 3
4392.31
A10-7870K
SE +/- 3.86, N = 3
4273.68
AMD FX-8320 sterky
SE +/- 40.68, N = 3
4260.71
FX-8370E
SE +/- 91.28, N = 6
4221.42
AMD FX-8320 xpander
SE +/- 70.44, N = 6
4206.70
A10-7850K
SE +/- 8.87, N = 3
4018.22
A10-5800K
SE +/- 17.92, N = 3
3949.81
FX-8150
SE +/- 87.00, N = 6
3894.48
A6-7400K
SE +/- 65.51, N = 3
3888.37
2 x Xeon E5540
3859.60


x264 2015-11-02
H.264 Video Encoding
Frames Per Second, More Is Better
Intel Xeon E5-2687W v3
SE +/- 3.50, N = 5
357.39
Intel Xeon E5-1680 v3
SE +/- 4.78, N = 10
353.95
Intel Core i7-5960X
SE +/- 3.15, N = 5
301.31
Core i7 4790K
SE +/- 0.89, N = 5
225.81
Intel Xeon E3-1270 v3
SE +/- 1.21, N = 5
217.22
Intel Xeon E3-1280 v3
SE +/- 1.29, N = 5
209.03
Core i7 3960X
SE +/- 1.41, N = 5
208.91
Intel Xeon E3-1240 v3
SE +/- 1.13, N = 5
207.81
Intel Xeon E3-1230 v3
SE +/- 1.57, N = 5
204.03
Intel Xeon E3-1245 v3
SE +/- 1.58, N = 5
202.47
Intel Xeon E3-1260L v3
SE +/- 1.28, N = 5
202.45
Core i7 5775C
SE +/- 0.46, N = 5
197.51
Core i7 4770K
SE +/- 0.59, N = 5
190.22
Intel Xeon E3-1231 v3
SE +/- 0.40, N = 5
184.21
2 x Xeon E5540
SE +/- 0.90, N = 5
176.56
AMD FX-8320 sterky
SE +/- 0.46, N = 5
173.27
Intel Xeon E3-1240L v3
SE +/- 0.85, N = 5
166.41
Core i7 4810MQ awatry
SE +/- 1.19, N = 5
164.69
Core i7 3770K
SE +/- 0.57, N = 5
160.52
AMD FX-8370
SE +/- 0.66, N = 5
157.59
Core i5 4670
SE +/- 0.23, N = 5
147.38
Intel Xeon E3-1220 v3
SE +/- 0.80, N = 5
141.77
FX-8370E
SE +/- 0.49, N = 5
140.39
FX-8150
SE +/- 0.26, N = 5
140.20
Intel Xeon E3-1235L v3
SE +/- 0.08, N = 5
118.85
Core i5 2500K
SE +/- 0.54, N = 5
106.61
A10-7870K
SE +/- 0.26, N = 5
96.63
A10-7850K
SE +/- 0.48, N = 5
89.03
A10-7800
SE +/- 0.22, N = 5
84.76
Core i7 4600U
SE +/- 0.16, N = 5
83.62
A10-5800K
SE +/- 0.25, N = 5
83.53
Core i5 2400S
SE +/- 0.25, N = 5
83.39
Core i3 2120
SE +/- 0.11, N = 5
69.70
Core i3 2100
66.09

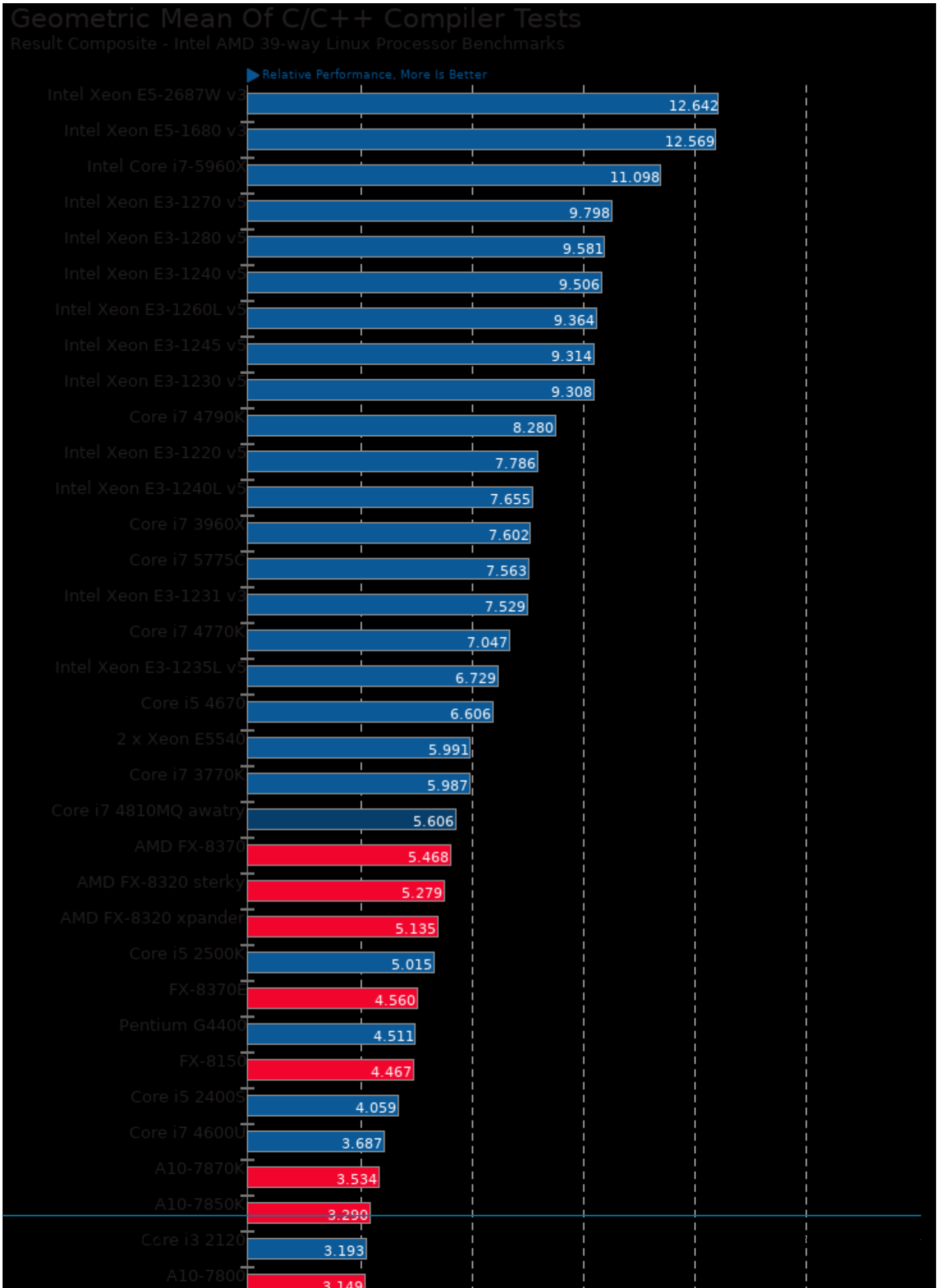

Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
Intel Xeon E3-1270 v5
SE +/- 8.81, N = 3
2712.52
Intel Xeon E3-1280 v5
SE +/- 10.97, N = 3
2674.95
Intel Xeon E3-1260L v5
SE +/- 0.44, N = 3
2643.74
Intel Xeon E3-1240 v5
SE +/- 26.77, N = 3
2622.84
Intel Xeon E3-1245 v5
SE +/- 40.72, N = 3
2601.80
Intel Xeon E3-1230 v5
SE +/- 8.73, N = 3
2590.97
Intel Xeon E3-1220 v5
SE +/- 12.87, N = 3
2369.54
Intel Xeon E3-1240L v5
SE +/- 9.71, N = 3
2220.97
Pentium G4400
SE +/- 0.85, N = 3
2198.41
Core i7 4790K
SE +/- 2.27, N = 3
2165.61
Intel Xeon E3-1235L v5
SE +/- 9.85, N = 3
2096.82
Core i7 5775C
SE +/- 21.41, N = 3
2094.00
Intel Xeon E5-1680 v3
SE +/- 5.11, N = 3
1904.15
Core i7 4770K
SE +/- 1.19, N = 3
1882.65
Core i5 4670
SE +/- 3.06, N = 3
1874.13
Core i7 4810MQ awatry
SE +/- 4.61, N = 3
1856.27
Intel Xeon E3-1231 v3
SE +/- 9.53, N = 3
1823.66
Intel Xeon E5-2687W v3
SE +/- 0.61, N = 3
1776.00
Intel Core i7-5960X
SE +/- 0.85, N = 3
1760.60
Core i7 3960X
SE +/- 5.00, N = 3
1702.05
Core i7 4600U
SE +/- 5.06, N = 3
1632.14
Core i7 3770K
SE +/- 2.60, N = 3
1623.31
Core i5 2500K
SE +/- 3.09, N = 3
1550.29
Core i5 2400S
SE +/- 2.13, N = 3
1389.81
Core i3 2120
SE +/- 2.76, N = 3
1316.97
Core i3 2100
SE +/- 1.73, N = 3
1300.61
Core i3 5010U
SE +/- 0.96, N = 3
1212.05
2 x Xeon E5540
SE +/- 7.52, N = 3
1140.20
A10-7870K
SE +/- 7.49, N = 3
944.92
Core i3 370M
SE +/- 0.74, N = 3
943.34
A10-7850K
SE +/- 5.05, N = 3
897.40
A6-7400K
SE +/- 7.77, N = 3
850.28
A10-7800
SE +/- 0.63, N = 3
845.57
AMD FX-8320 sterky
736.47


Timed Linux Kernel Compilation 4.3
Time To Compile
Seconds, Fewer Is Better
Intel Xeon E5-2687W v3
SE +/- 0.77, N = 3
53.61
Intel Xeon E5-1680 v3
SE +/- 0.75, N = 3
54.50
Intel Core i7-5960X
SE +/- 0.81, N = 3
61.95
Core i7 4790K
SE +/- 0.91, N = 3
79.23
Core i7 5775C
SE +/- 0.84, N = 3
88.38
Intel Xeon E3-1270 v5
SE +/- 0.52, N = 3
88.74
Intel Xeon E3-1240 v5
SE +/- 0.84, N = 3
90.02
Intel Xeon E3-1280 v5
SE +/- 0.74, N = 3
90.10
Intel Xeon E3-1230 v5
SE +/- 0.91, N = 3
92.10
Intel Xeon E3-1245 v5
SE +/- 0.83, N = 3
92.52
Intel Xeon E3-1260L v5
SE +/- 0.84, N = 3
92.87
Core i7 3960X
SE +/- 0.94, N = 3
94.15
Core i7 4770K
SE +/- 0.72, N = 3
97.73
2 x Xeon E5540
SE +/- 1.32, N = 3
97.85
Intel Xeon E3-1231 v3
SE +/- 0.81, N = 3
102.94
Intel Xeon E3-1240L v5
SE +/- 0.74, N = 3
112.43
AMD FX-8320 sterky
SE +/- 1.09, N = 3
119.89
Core i5 4670
SE +/- 1.21, N = 3
126.28
AMD FX-8320 xpander
SE +/- 1.13, N = 3
128.55
AMD FX-8370
SE +/- 1.55, N = 3
133.48
Intel Xeon E3-1220 v5
SE +/- 0.69, N = 3
135.52
Core i5 2500K
SE +/- 1.07, N = 3
147.25
Intel Xeon E3-1235L v5
SE +/- 1.13, N = 3
150.93
FX-8150
SE +/- 3.44, N = 6
158.31
Core i7 4810MQ awatry
SE +/- 1.79, N = 3
159.51
A10-7870K
SE +/- 1.42, N = 3
192.80
Core i7 4600U
SE +/- 1.13, N = 3
218.14
A10-7800
SE +/- 1.34, N = 3
218.40
A10-5800K
SE +/- 0.72, N = 3
228.94
A8-3870
SE +/- 0.94, N = 3
238.13
Pentium G4400
SE +/- 1.16, N = 3
248.26
Core i3 2100
SE +/- 1.17, N = 3
265.21
Core i3 2120
SE +/- 1.13, N = 3
293.00
Core i3 370M
371.84


C-Ray 1.1
Total Time
Seconds, Fewer Is Better
Intel Xeon E5-2687W v3
SE +/- 0.02, N = 3
8.01
Intel Xeon E5-1680 v3
SE +/- 0.06, N = 3
8.37
Intel Core i7-5960X
SE +/- 0.03, N = 3
9.69
Intel Xeon E3-1270 v5
SE +/- 0.01, N = 3
14.22
Intel Xeon E3-1280 v5
SE +/- 0.00, N = 3
14.60
Intel Xeon E3-1240 v5
SE +/- 0.03, N = 3
14.66
Intel Xeon E3-1230 v5
SE +/- 0.01, N = 3
15.01
Intel Xeon E3-1245 v5
SE +/- 0.02, N = 3
15.04
Intel Xeon E3-1260L v5
SE +/- 0.02, N = 3
15.04
Intel Xeon E3-1231 v3
SE +/- 0.01, N = 3
17.60
2 x Xeon E5540
SE +/- 0.01, N = 3
18.39
Intel Xeon E3-1240L v5
SE +/- 0.01, N = 3
18.63
Intel Xeon E3-1220 v5
SE +/- 0.00, N = 3
18.74
Core i7 4790K
SE +/- 0.01, N = 3
19.15
AMD FX-8370
SE +/- 0.00, N = 3
19.96
Core i7 3960X
SE +/- 0.09, N = 3
20.25
Intel Xeon E3-1235L v5
SE +/- 0.03, N = 3
21.84
Core i7 5775C
SE +/- 0.01, N = 3
22.61
Core i7 4770K
SE +/- 0.01, N = 3
22.80
AMD FX-8320 sterky
SE +/- 0.01, N = 3
23.58
AMD FX-8320 xpander
SE +/- 0.03, N = 3
24.07
Core i5 4670
SE +/- 0.00, N = 3
24.52
Core i7 3770K
SE +/- 0.01, N = 3
28.70
FX-8370E
SE +/- 0.02, N = 3
30.35
FX-8150
SE +/- 1.20, N = 6
32.07
Core i7 4810MQ awatry
SE +/- 0.99, N = 6
32.87
Core i5 2500K
SE +/- 0.11, N = 3
35.80
A8-3870
SE +/- 0.81, N = 3
43.89
Core i5 2400S
SE +/- 0.01, N = 3
46.35
Pentium G4400
SE +/- 0.01, N = 3
46.42
A10-7870K
SE +/- 0.04, N = 3
50.16
A10-7850K
SE +/- 0.04, N = 3
53.17
A10-5800K
SE +/- 0.60, N = 3
54.34
Core i7 4600U
56.28

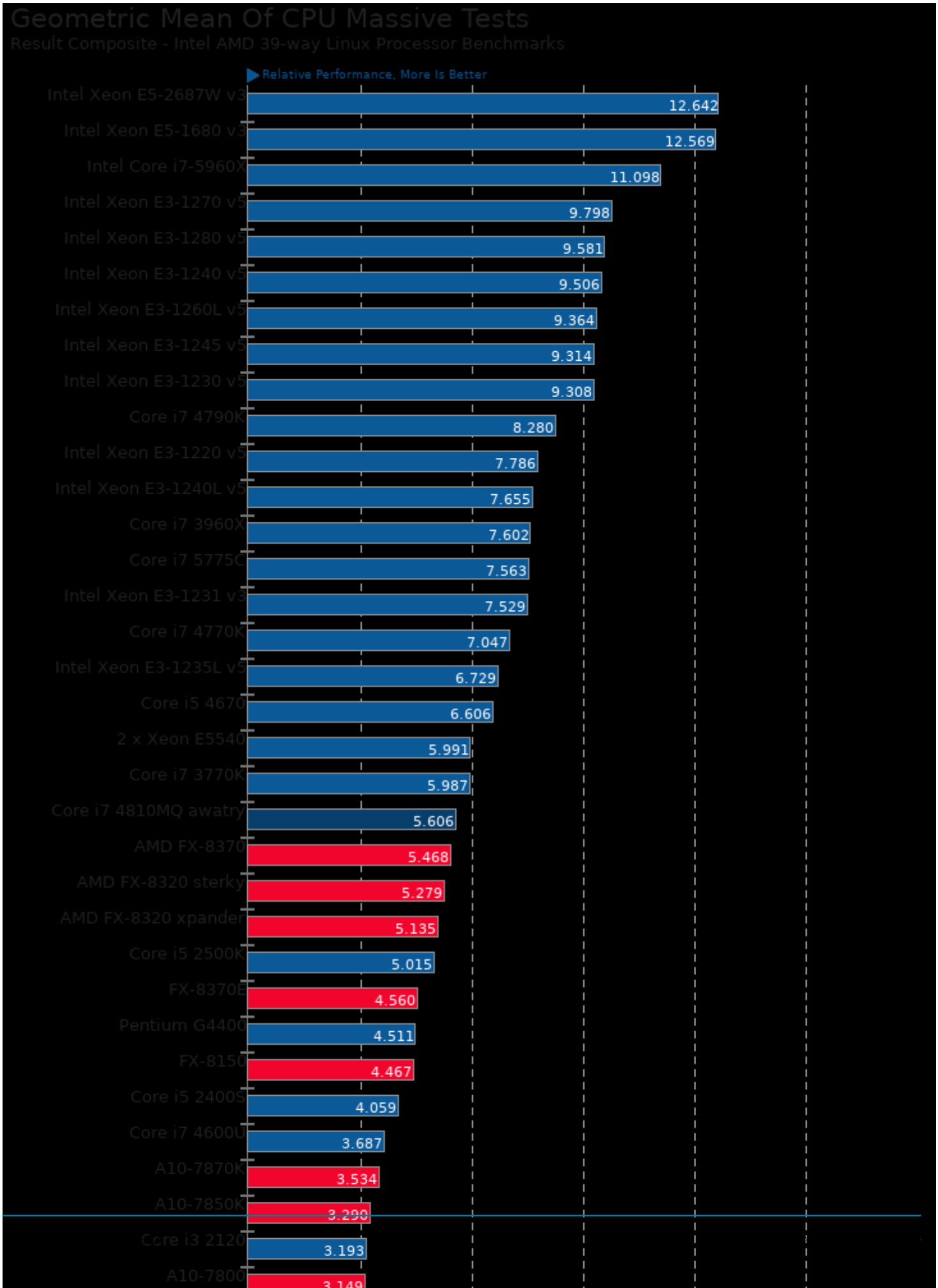

OpenSSL 1.0.1g
RSA 4096-bit Performance
Signs Per Second, More Is Better
Intel Xeon E5-2687W v3
SE +/- 2.85, N = 3
1324.30
Intel Xeon E5-1680 v3
SE +/- 7.39, N = 3
1268.47
Intel Core i7-5960X
SE +/- 2.83, N = 3
1093.37
Core i7 3960X
SE +/- 0.26, N = 3
759.53
Core i7 4790K
SE +/- 0.15, N = 3
729.50
Intel Xeon E3-1270 v3
SE +/- 0.19, N = 3
716.67
Intel Xeon E3-1280 v3
SE +/- 0.09, N = 3
697.77
Intel Xeon E3-1240 v3
SE +/- 0.12, N = 3
697.73
AMD FX-8320 sterky
SE +/- 0.74, N = 3
684.50
AMD FX-8370
SE +/- 0.29, N = 3
679.00
Intel Xeon E3-1230 v3
SE +/- 0.06, N = 3
679.00
Core i7 5775C
SE +/- 0.06, N = 3
678.90
Intel Xeon E3-1260L v3
SE +/- 0.21, N = 3
678.90
Intel Xeon E3-1245 v3
SE +/- 0.03, N = 3
678.73
AMD FX-8320 xpander
SE +/- 1.39, N = 3
669.70
Core i7 4770K
SE +/- 0.79, N = 3
616.03
FX-8150
SE +/- 0.70, N = 3
610.57
Intel Xeon E3-1231 v3
SE +/- 0.95, N = 3
598.70
FX-8370E
SE +/- 0.71, N = 3
580.00
Core i7 3770K
SE +/- 1.17, N = 3
551.40
Core i5 4670
SE +/- 0.45, N = 3
548.10
Intel Xeon E3-1240L v3
SE +/- 0.12, N = 3
546.87
Intel Xeon E3-1220 v3
SE +/- 0.07, N = 3
542.47
2 x Xeon E5540
SE +/- 0.23, N = 3
504.00
Intel Xeon E3-1235L v3
SE +/- 0.65, N = 3
461.20
Core i7 4810MQ awatry
SE +/- 13.27, N = 6
453.50
Core i5 2500K
SE +/- 0.57, N = 3
423.43
A10-7870K
SE +/- 1.27, N = 3
340.53
Core i5 2400S
SE +/- 0.20, N = 3
324.17
A8-3870
SE +/- 0.46, N = 3
323.90
A10-7850K
SE +/- 0.54, N = 3
306.67
A10-7800
SE +/- 1.40, N = 3
305.97
A10-5800K
SE +/- 17.05, N = 6
292.72
Pentium G4400
281.77

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


Geometric Mean Of C/C++ Compiler Tests
Result Composite - Intel AMD 39-way Linux Processor Benchmarks
Relative Performance, More Is Better
Intel Xeon E5-2687W v3
12.642
Intel Xeon E5-1680 v3
12.569
Intel Core i7-5960X
11.098
Intel Xeon E3-1270 v5
9.798
Intel Xeon E3-1280 v5
9.581
Intel Xeon E3-1240 v5
9.506
Intel Xeon E3-1260L v5
9.364
Intel Xeon E3-1245 v5
9.314
Intel Xeon E3-1230 v5
9.308
Core i7 4790K
8.280
Intel Xeon E3-1220 v5
7.786
Intel Xeon E3-1240L v5
7.655
Core i7 3960X
7.602
Core i7 5775C
7.563
Intel Xeon E3-1231 v3
7.529
Core i7 4770K
7.047
Intel Xeon E3-1235L v5
6.729
Core i5 4670
6.606
2 x Xeon E5540
5.991
Core i7 3770K
5.987
Core i7 4810MQ awatry
5.606
AMD FX-8370
5.468
AMD FX-8320 sterky
5.279
AMD FX-8320 xpander
5.135
Core i5 2500K
5.015
FX-8370E
4.560
Pentium G4400
4.511
FX-8150
4.467
Core i5 2400S
4.059
Core i7 4600U
3.687
A10-7870K
3.534
A10-7850K
3.290
Core i3 2120
3.193
A10-7800
3.149

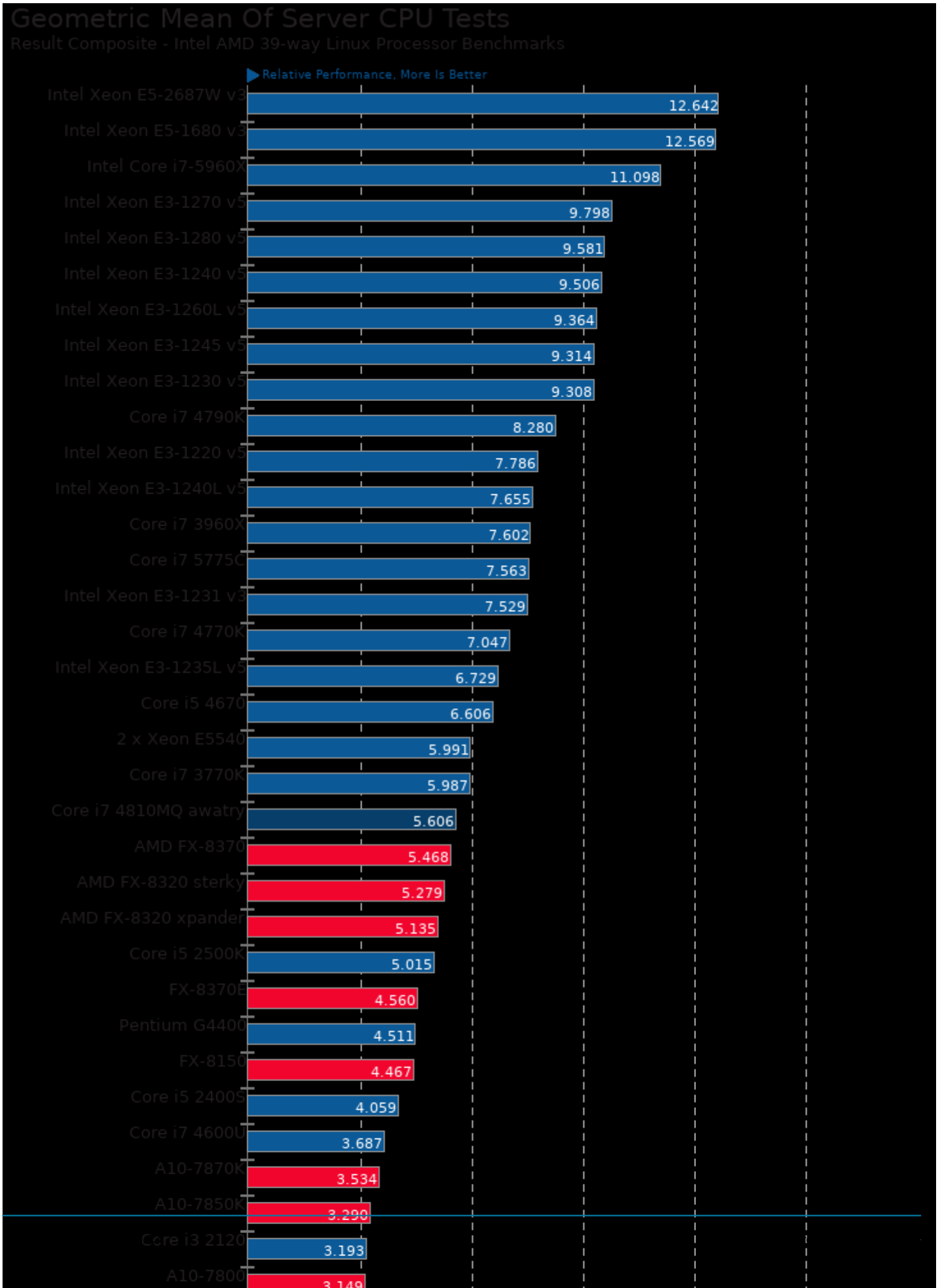
Intel AMD 39-way Linux Processor Benchmarks

Geometric mean based upon tests: pts/himeno, pts/c-ray, pts/x264 and pts/openssl


Geometric Mean Of CPU Massive Tests
Result Composite - Intel AMD 39-way Linux Processor Benchmarks
Relative Performance, More Is Better
Intel Xeon E5-2687W v3 12.642
Intel Xeon E5-1680 v3 12.569
Intel Core i7-5960X 11.098
Intel Xeon E3-1270 v5 9.798
Intel Xeon E3-1280 v5 9.581
Intel Xeon E3-1240 v5 9.506
Intel Xeon E3-1260L v5 9.364
Intel Xeon E3-1245 v5 9.314
Intel Xeon E3-1230 v5 9.308
Core i7 4790K 8.280
Intel Xeon E3-1220 v5 7.786
Intel Xeon E3-1240L v5 7.655
Core i7 3960X 7.602
Core i7 5775C 7.563
Intel Xeon E3-1231 v3 7.529
Core i7 4770K 7.047
Intel Xeon E3-1235L v5 6.729
Core i5 4670 6.606
2 x Xeon E5540 5.991
Core i7 3770K 5.987
Core i7 4810MQ awatry 5.606
AMD FX-8370 5.468
AMD FX-8320 sterky 5.279
AMD FX-8320 xpander 5.135
Core i5 2500K 5.015
FX-8370E 4.560
Pentium G4400 4.511
FX-8150 4.467
Core i5 2400S 4.059
Core i7 4600U 3.687
A10-7870K 3.534
A10-7850K 3.290
Core i3 2120 3.193
A10-7800 3.149

Intel AMD 39-way Linux Processor Benchmarks

Geometric mean based upon tests: pts/build-linux-kernel, pts/c-ray, pts/x264, pts/himeno and pts/openssl


Geometric Mean Of Server CPU Tests
Result Composite - Intel AMD 39-way Linux Processor Benchmarks
Relative Performance, More Is Better
Intel Xeon E5-2687W v3
12.642
Intel Xeon E5-1680 v3
12.569
Intel Core i7-5960X
11.098
Intel Xeon E3-1270 v5
9.798
Intel Xeon E3-1280 v5
9.581
Intel Xeon E3-1240 v5
9.506
Intel Xeon E3-1260L v5
9.364
Intel Xeon E3-1245 v5
9.314
Intel Xeon E3-1230 v5
9.308
Core i7 4790K
8.280
Intel Xeon E3-1220 v5
7.786
Intel Xeon E3-1240L v5
7.655
Core i7 3960X
7.602
Core i7 5775C
7.563
Intel Xeon E3-1231 v3
7.529
Core i7 4770K
7.047
Intel Xeon E3-1235L v5
6.729
Core i5 4670
6.606
2 x Xeon E5540
5.991
Core i7 3770K
5.987
Core i7 4810MQ awatry
5.606
AMD FX-8370
5.468
AMD FX-8320 sterky
5.279
AMD FX-8320 xpander
5.135
Core i5 2500K
5.015
FX-8370E
4.560
Pentium G4400
4.511
FX-8150
4.467
Core i5 2400S
4.059
Core i7 4600U
3.687
A10-7870K
3.534
A10-7850K
3.290
Core i3 2120
3.193
A10-7800
3.149

Intel AMD 39-way Linux Processor Benchmarks

Geometric mean based upon tests: pts/x264, pts/himeno, pts/build-linux-kernel, pts/c-ray and pts/openssl

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 07:16.