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AMD A10-7850K Kaveri APU Linux

Testing by Michael Larabel for a future article on Phoronix.com reviewing the AMD A10-7850K Kaveri APU on Ubuntu 14.04 Linux and being compared to various Intel and AMD processors.

Automated Executive Summary

Intel Core i7 4770K had the most wins, coming in first place for 71% of the tests.

Based on the geometric mean of all complete results, the fastest (Intel Core i7 4770K) was 2.296x the speed of the slowest (AMD A8-6500 - 3.4GHz).

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

Smallpt (Global Illumination Renderer; 100 Samples) at 8.8x
Primesieve (1e12 Prime Number Generation) at 5.062x
John The Ripper (Test: MD5) at 3.455x
Open Porous Media (OPM Benchmark: Upscale-Relperm) at 3.228x
John The Ripper (Test: Blowfish) at 3.175x
OpenSSL (RSA 4096-bit Performance) at 3.034x
Himeno Benchmark (Poisson Pressure Solver) at 2.984x
Timed Linux Kernel Compilation (Time To Compile) at 2.699x
x264 (H.264 Video Encoding) at 2.623x

Dolfyn (Computational Fluid Dynamics) at 2.36x.

Test Systems:

Intel Core i3 2120

Processor: Intel Core i3-2120 @ 3.30GHz (4 Cores), Motherboard: ASRock Z68 Pro3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: Intel HD 2000 (1100MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: intel 2.99.907, OpenGL: 3.1 Mesa 10.0.1, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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: intel_pstate performance

Intel Core i5 2500K

Processor: Intel Core i5-2500K @ 3.70GHz (4 Cores), Motherboard: ASRock Z68 Pro3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: Intel HD 3000 (1100MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: intel 2.99.907, OpenGL: 3.1 Mesa 10.0.1, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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: intel_pstate performance

Intel Core i5 3470

Processor: Intel Core i5-3470 @ 3.60GHz (4 Cores), Motherboard: ASRock Z68 Pro3, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: Intel HD 2500 (1100MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: intel 2.99.907, OpenGL: 3.3 Mesa 10.0.1, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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: intel_pstate performance

Intel Core i7 3770K

Processor: Intel Core i7-3770K @ 3.90GHz (8 Cores), Motherboard: ASRock Z68 Pro3, Chipset: Intel Xeon E3-1200

v2/3rd, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: Intel HD 4000 (1150MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: intel 2.99.907, OpenGL: 3.3 Mesa 10.0.1, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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: intel_pstate performance

Intel Core i3 4130

Processor: Intel Core i3-4130 @ 3.40GHz (4 Cores), Motherboard: ECS Z87H3-A2X EXTREME v1.0, Chipset: Intel 4th Gen Core DRAM, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: XFX AMD Radeon R9 290 4096MB, Audio: Realtek ALC1150, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 2560x1600

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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: intel_pstate performance

Intel Core i5 4670

Processor: Intel Core i5-4670 @ 3.80GHz (4 Cores), Motherboard: ECS Z87H3-A2X EXTREME v1.0, Chipset: Intel 4th Gen Core DRAM, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: Intel HD 4600 (1200MHz), Audio: Intel Haswell HDMI, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: intel 2.99.907, OpenGL: 3.3 Mesa 10.0.1, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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: intel_pstate performance

Intel Core i7 4770K

Processor: Intel Core i7-4770K @ 3.90GHz (8 Cores), Motherboard: ECS Z87H3-A2X EXTREME v1.0, Chipset: Intel 4th Gen Core DRAM, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: XFX AMD Radeon R9 290 4096MB, Audio: ATI R6xx HDMI, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 2560x1600

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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: intel_pstate performance

AMD FX-8350

Processor: AMD FX-8350 Eight-Core @ 4.01GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: Sapphire AMD Radeon HD 6570/7570 512MB, Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: radeon 7.2.0, OpenGL: 3.1 Mesa 10.0.1 Gallium 0.4, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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

AMD A10-6800K

Processor: AMD A10-6800K APU @ 4.10GHz (4 Cores), Motherboard: MSI FM2-A85XA-G65 (MS-7793) v1.0, Chipset: AMD Family 15h, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: MSI AMD Radeon HD 8670D 768MB, Audio: ATI R6xx HDMI, Monitor: VE228, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-999-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: radeon 7.2.0, OpenGL: 3.1 Mesa 10.0.1 Gallium 0.4, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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

AMD A10-7850K

Processor: AMD A10-7850K APU with Radeon R7 @ 4.00GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: ASUS AMD Radeon R7 1024MB (900/1066MHz), Audio: ATI R6xx HDMI, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.12.7-031207-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.30.1, OpenGL: 4.3.12682, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/i386-linux-gnu/dri:/usr/lib/x86_64-linux-gnu/dri
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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

AMD A10-7850K - 4.4GHz

Processor: AMD A10-7850K APU with Radeon R7 @ 4.40GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: ASUS AMD Radeon R7 1024MB (900/1066MHz), Audio: ATI R6xx HDMI, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.12.7-031207-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.30.1, OpenGL: 4.3.12682, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/i386-linux-gnu/dri:/usr/lib/x86_64-linux-gnu/dri
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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

AMD A10-7700K - 3.4GHz

Processor: AMD A10-7700K APU with Radeon R7 @ 3.39GHz (4 Cores), Motherboard: ASRock FM2A88X Extreme6+, Chipset: AMD Device 1422, Memory: 7168MB, Disk: 120GB Samsung SSD 840, Graphics: LLVMpipe, Audio: ATI R6xx HDMI, Network: Qualcomm Atheros QCA8171 Gigabit

OS: Debian Linux Jessie/sid, Kernel: 3.12-1-amd64 (x86_64), Desktop: Xfce 4.8, Display Server: X Server 1.12.4, Display Driver: radeon 6.14.99, OpenGL: 2.1 Mesa 8.0.5 Gallium 0.4, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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-multilib-list=m32,m64,mx32 --with-tune=generic -v

AMD A10-7700K - 3.8GHz

Processor: AMD A10-7700K APU with Radeon R7 @ 3.79GHz (4 Cores), Motherboard: ASRock FM2A88X Extreme6+, Chipset: AMD Device 1422, Memory: 7168MB, Disk: 120GB Samsung SSD 840, Graphics: AMD Kaveri 1024MB, Audio: ATI R6xx HDMI, Network: Qualcomm Atheros QCA8171 Gigabit

OS: Debian Linux Jessie/sid, Kernel: 3.12-1-amd64 (x86_64), Desktop: Xfce, Display Server: X Server 1.12.4, Display Driver: radeon 6.14.99, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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-multilib-list=m32,m64,mx32 --with-tune=generic -v

AMD A10-7700K - 4.0GHz

Processor: AMD A10-7700K APU with Radeon R7 @ 4.00GHz (4 Cores), Motherboard: ASRock FM2A88X Extreme6+, Chipset: AMD Device 1422, Memory: 7168MB, Disk: 1000GB Seagate ST1000LM024 HN-M + 120GB Samsung SSD 840, Graphics: LLVMpipe, Audio: ATI R6xx HDMI, Network: Realtek RTL8169 PCI Gigabit

OS: Debian Linux Jessie/sid, Kernel: 3.12-1-amd64 (x86_64), Desktop: Xfce 4.8, Display Server: X Server 1.12.4, Display Driver: radeon 6.14.99, OpenGL: 2.1 Mesa 8.0.5 Gallium 0.4, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1024x768

Environment Notes: LIBGLADE_MODULE_PATH=:
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

AMD A10-7700K - 4.2GHz

Processor: AMD A10-7700K APU with Radeon R7 @ 4.20GHz (4 Cores), Motherboard: ASRock FM2A88X Extreme6+, Chipset: AMD Device 1422, Memory: 7168MB, Disk: 1000GB Seagate ST1000LM024 HN-M + 120GB Samsung SSD 840, Graphics: LLVMpipe, Audio: ATI R6xx HDMI, Network: Realtek RTL8169 PCI Gigabit

OS: Debian Linux Jessie/sid, Kernel: 3.12-1-amd64 (x86_64), Desktop: Xfce 4.8, Display Server: X Server 1.12.4, Display Driver: radeon 6.14.99, OpenGL: 2.1 Mesa 8.0.5 Gallium 0.4, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1024x768

Environment Notes: LIBGLADE_MODULE_PATH=:
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

AMD A10-7700K - 4.4GHz

Processor: AMD A10-7700K APU with Radeon R7 @ 4.40GHz (4 Cores), Motherboard: ASRock FM2A88X Extreme6+, Chipset: AMD Device 1422, Memory: 7168MB, Disk: 1000GB Seagate ST1000LM024 HN-M + 120GB Samsung SSD 840, Graphics: AMD Kaveri, Audio: ATI R6xx HDMI, Network: Qualcomm Atheros QCA8171 Gigabit

OS: Debian Linux Jessie/sid, Kernel: 3.12-1-amd64 (x86_64), Desktop: Xfce, Display Server: X Server 1.12.4, Display Driver: radeon 6.14.99, Compiler: GCC 4.8, File-System: ext4

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

AMD A8-6500

Processor: AMD A8-6500 APU @ 3.50GHz (4 Cores), Motherboard: ASRock FM2A88X Extreme6+, Chipset: AMD Family 15h, Memory: 8192MB, Disk: 120GB Samsung SSD 840, Graphics: LLVMpipe, Audio: ATI R6xx HDMI, Network: Qualcomm Atheros QCA8171 Gigabit

OS: Debian Linux Jessie/sid, Kernel: 3.12-1-amd64 (x86_64), Desktop: Xfce 4.8, Display Server: X Server 1.12.4, Display Driver: radeon 6.14.99, OpenGL: 2.1 Mesa 8.0.5 Gallium 0.4, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

AMD A8-6500 - 3.4GHz

Processor: AMD A8-6500 APU @ 3.39GHz (4 Cores), Motherboard: ASRock FM2A88X Extreme6+, Chipset: AMD Family 15h, Memory: 8192MB, Disk: 120GB Samsung SSD 840, Graphics: LLVMpipe, Audio: ATI R6xx HDMI, Network: Qualcomm Atheros QCA8171 Gigabit

OS: Debian Linux Jessie/sid, Kernel: 3.12-1-amd64 (x86_64), Desktop: Xfce 4.8, Display Server: X Server 1.12.4, Display Driver: radeon 6.14.99, OpenGL: 2.1 Mesa 8.0.5 Gallium 0.4, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-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-multilib-list=m32,m64,mx32 --with-tune=generic -v

AMD A8-7670K - 3.4/1.6GHz

AMD A8-7670K - 3.4/1.8GHz

Processor: AMD A8-7670K Radeon R7 10 Compute Cores 4C+6G @ 3.40GHz (4 Cores), Motherboard: ASRock A88M-G/3.1, Chipset: AMD Family 15h, Memory: 2 x 4096 MB DDR3-1866MHz, Disk: 256GB SAMSUNG MZHPV256, Graphics: NVIDIA GeForce GTX 650 OEM 2048MB (324/648MHz), Audio: AMD FCH Azalia, Monitor: CTX PV722 DVI, Network: Realtek RTL8111/8168/8411

OS: Debian 8.3, Kernel: 3.16.0-4-amd64 (x86_64), Desktop: GNOME Shell 3.14.4, Display Server: X Server 1.16.4, Display Driver: nouveau 1.0.11, OpenGL: 3.3 Mesa 10.3.2 Gallium 0.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1280x1024

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,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=i586 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

AMD X4 845 - 3.4/1.3GHz

Processor: AMD Athlon X4 845 Quad Core @ 3.40GHz (4 Cores), Motherboard: ASRock A88M-G/3.1, Chipset: AMD Device 1576, Memory: 2 x 4096 MB DDR3-1866MHz, Disk: 256GB SAMSUNG MZHPV256, Graphics: NVIDIA GeForce GTX 650 OEM 2048MB (324/648MHz), Audio: AMD FCH Azalia, Monitor: CTX PV722 DVI, Network: Realtek RTL8111/8168/8411

OS: Debian 8.3, Kernel: 3.16.0-4-amd64 (x86_64), Desktop: GNOME Shell 3.14.4, Display Server: X Server 1.16.4, Display Driver: nouveau 1.0.11, OpenGL: 3.3 Mesa 10.3.2 Gallium 0.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1280x1024

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,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=i586 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

AMD X4 845 - 3.85-4.07/1.43GHz

AMD X4 845 - 3.815-4.033/1.417GHz

AMD X4 845 - 3.815-4.033/1.308GHz

AMD X4 845 - 3.675-3.885/1.365MHz

MD X4 845 - 3.745-3.959/1.391GHz

Processor: AMD Athlon X4 845 Quad Core @ 3.50GHz (4 Cores), Motherboard: ASRock A88M-G/3.1, Chipset: AMD Device 1576, Memory: 2 x 4096 MB DDR3-1600MHz, Disk: 256GB SAMSUNG MZHPV256, Graphics: NVIDIA GeForce GTX 650 OEM 2048MB (324/648MHz), Audio: AMD FCH Azalia, Monitor: CTX PV722 DVI, Network: Realtek RTL8111/8168/8411

OS: Debian 8.3, Kernel: 3.16.0-4-amd64 (x86_64), Desktop: GNOME Shell 3.14.4, Display Server: X Server 1.16.4, Display Driver: nouveau 1.0.11, OpenGL: 3.3 Mesa 10.3.2 Gallium 0.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1280x1024

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,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

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--target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i586 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

	Intel Core i3 2120	Intel Core i5 2500K	Intel Core i5 3470	Intel Core i7 3770K	Intel Core i3 4130	Intel Core i5 4670	Intel Core i7 4770K	AMD FX-8350	AMD A10-6800K	AMD A10-7850K	AMD A10-7850K - 4.4GHz	AMD A10-7700K - 3.4GHz	AMD A10-7700K - 3.8GHz	AMD A10-7700K - 4.0GHz	AMD A10-7700K - 4.2GHz	AMD A10-7700K - 4.4GHz	AMD A8-6500	AMD A8-6500 - 3.4GHz	AMD A8-7670K - 3.4/1.6GHz	AMD A8-7670K - 3.4/1.8GHz	AMD X4 845 - 3.4/1.3GHz	AMD X4 845 - 3.8/1.43GHz	AMD X4 845 - 3.8/1.4GHz	AMD X4 845 - 4.0/1.7GHz	AMD X4 845 - 4.0/1.8GHz	AMD X4 845 - 3.8/1.3GHz	AMD X4 845 - 3.6/1.3GHz	MDX4 845 - 3.7/3.9GHz
Rodinia - OpenMP CFD Solver (sec)	19.74	12.30	11.80	90.31	16.70	13.01	93.89	10.05	15.92	15.14	14.19	15.85	14.51	13.09	13.52	12.61	17.00	18.05	15.41	15.27	14.71	12.87	12.28	13.39	13.74	13.08	12.91	13.08
Normalized	45.7	73.3	76.4	100	53.9	68.5	96.1	89.8	56.4	59.6	63.6	57.0	62.2	64.9	66.7	69.6	52.9	50.0	58.5	59.1	61.3	70.5	70.4	68.7	67.5	68.3		
Standard Deviation	6%	6%	%	%	2%	2%	9%	2%	7%	3%	4%	3%	4%	3%	9%	8%	1%	5%	3%	2%	9%	2%	%	3%	3%	8%		
	0%	0.1	0.1	0.2	0.5	3.3	3.1	0.5	0.2	0.1	0.1	0.1	0.1	0.1	1.1	0.1	1.7	0.1	0.3	0.4	0.5	0.1	0.3	0.5	0.3	0.5		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		
Dolfyn - C.F.D (sec)	30.35	27.54	26.63	24.89	25.17		20.76	35.41	43.15	41.36	39.04	45.31	41.64	41.17	39.45	38.82	43.29	48.99	45.72	45.20	44.74	39.60	39.25	40.34	40.76	40.68		
Normalized	68.4	75.3	77.9	83.4	82.4		100	58.6	48.1	50.1	53.1	45.8	49.8	50.4	52.6	53.4	47.9	42.3	45.4	45.9	46.4	52.4	52.8	51.4	50.9	51.0		
Standard Deviation	%	8%	6%	1%	8%		%	3%	1%	9%	8%	2%	6%	3%	2%	8%	6%	8%	1%	3%	%	2%	9%	6%	3%	3%		
	0.1	4.8	6.1	2.3	0.6		0.3	0.5	0.3	0.3	0.9	0.6	0.5	0.6	0.4	2.4	1.2	0.5	0.7	0.4	0.6	3.1	0.8	0.6	0.8	1.8		
	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		

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LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein (Loop Time)	47.81	45.70	43.72	39.89	39.21	35.22	32.99	54.01	60.06	59.15	53.89	70.30	63.47	62.71	59.35	57.00	62.12	73.20	64.62	65.11	63.65	54.49	54.97	56.16	57.04	56.25
Normalized	69%	72.1	75.4	82.7	84.1	93.6	100	61.0	54.9	55.7	61.2	46.9	51.9	52.6	55.5	57.8	53.1	45.0	51.0	50.6	51.8	60.5	60.0	58.7	57.8	58.6
Deviation	%	9%	6%	%	4%	7%	%	8%	3%	7%	2%	3%	8%	1%	9%	8%	1%	7%	5%	7%	3%	4%	1%	4%	4%	5%
Standard	0.3	0.2	0.2	0.9	0.4	0%	0.2	0.1	0.2	0.5	0.1	1.4	0.3	0.6	0.4	0.5	0.3	0.2	0.4	2.1	0.1	0.1	0.2	0.3	0%	0.2
Deviation	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%
FFTE - N.6.1.C.F.R (MFLOPS)	48	48	49	52	52		61	36	38	44	49	37	42	45	47	49	38	32	37	37	41	49	50	49	48	48
	57	76	36	95	89		01	32	87	79	26	98	57	03	20	69	80	96	30	34	80	87	28	33	02	91
Normalized	79.6	79.9	80.9	86.7	86.6		100	59.5	63.7	73.4	80.7	62.2	69.7	73.8	77.3	81.4	63.5	54.0	61.1	61.2	68.5	81.7	82.4	80.8	78.7	80.1
Deviation	%	2%	1%	8%	9%		%	3%	%	1%	3%	5%	7%	%	6%	4%	8%	2%	3%	%	%	3%	%	5%	%	6%
Standard	0.1	1%	4.9	0%	0.5		0.1	8.2	1.8	1.1	0.7	0.8	1.1	1.4	0.4	0.4	2.2	6.8	2.1	2.3	0.1	0.7	0%	1.5	1.4	0.7
Deviation	%		%		%		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%	%	%
John The Ripper - Blowfish (Real C/S)	22	32	37	60	30	38	66	71	36	40	44	34	38	40	42	41	30	29	33	33	37	45	45	44	43	44
	65	23	03	05	26	74	19	92	84	53	62	39	32	42	40	98	71	77	68	45	95	52	42	97	90	59
Normalized	31.4	44.8	51.4	83.5	42.0	53.8	92.0	100	51.2	56.3	62.0	47.8	53.2	56.2	58.9	58.3	42.7	41.3	46.8	46.5	52.7	63.2	63.1	62.5	61.0	62%
Deviation	9%	1%	9%	%	7%	7%	3%	%	2%	5%	4%	2%	8%	%	5%	7%	%	9%	3%	1%	7%	9%	5%	3%	4%	
Standard	0%	0.1	0.1	0.1	0.3	0.4	0.1	0.2	0%	0.3	0.1	0.2	0.1	0.2	0.1	3.4	2.7	0.2	0.8	2.2	0%	0.7	0.6	0.4	0.2	0.1
Deviation		%	%	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
John The Ripper - MD5 (Real C/S)	31	52	61	83	38	65	84	10	55	66	72	56	62	66	69	67	47	44	53	53	71	84	83	81	81	82
	33	80	61	39	60	60	12	82	05	13	86	28	63	04	42	42	34	59	03	14	53	22	50	71	66	35
	4	3	7	1	4	9	9	55	4	0	0	2	8	2	5	5	5	5	8	1	6	1	3	5	0	6
Normalized	28.9	48.7	56.9	77.0	35.6	60.6	77.7	100	50.8	61.0	67.3	51.9	57.8	61.0	64.1	62.2	43.7	41.1	48.9	49.0	66.0	77.8	77.1	75.4	75.4	76.0
Deviation	4%	8%	2%	3%	6%	1%	1%	%	6%	9%	%	9%	6%	1%	3%	8%	3%	9%	9%	9%	8%	%	4%	8%	3%	8%
Standard	0%	0.1	0.3	0%	0.2	0.4	0.5	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.4	0.5	0.1	0%	0.2	0%	1.3	0.8	2%	0.6	0.7
Deviation		%	%		%	%	%	%	%	%	%	%	%	%	%	%	%	%		%		%	%		%	%
x264 - H.2.V.E (FPS)	69.85	10 5.8	11 3.4 0	15 6.4 1	89.83	13 6.5 9	18 3.2 3	15 8.9 9	83. 55	94. 05	10 2.2 7	85. 34	93. 63	97. 29	10 0.5 9	10 5.5 6	78. 47	73. 49	84. 25	84. 03	80. 25	93. 27	93. 19	92. 31	90. 58	91. 15
Normalized	38.1	57.6	61.8	85.3	49.0	74.5	100	86.7	45.6	51.3	55.8	46.5	51.1	53.1	54.9	57.6	42.8	40.1	45.9	45.8	43.8	50.9	50.8	50.3	49.4	49.7
Deviation	2%	2%	9%	6%	3%	5%	%	7%	%	3%	2%	8%	%	%	%	1%	3%	1%	8%	6%	%	%	6%	8%	4%	5%

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Standard Deviation	0.9 %	0.6 %	0.8 %	1.1 %	0.8 %	1.4 %	0.7 %	0.8 %	0.8 %	0.5 %	0.9 %	0.2 %	0.5 %	0.3 %	0.5 %	0.5 %	0.8 %	0.7 %	0.4 %	0.3 %	0.2 %	0.8 %	0.8 %	0.7 %	0.7 %	0.7 %
Himeno Benchmark - P.P.S (MFLOPS)	13 91	13 99	13 72	14 95	15 84	17 03	17 29	73 8.06	72 3.76	96 3.83	10 32	81 4.83	88 6.66	92 4.02	96 0.43	99 6.29	69 9.52	59 3.35	80 5.06	82 0.25	14 97	17 27	17 47	17 71	17 16	17 57
Normalized	78.5	79.0	77.4	84.4	89.4	96.1	97.6	41.6	40.8	54.4	58.3	46.0	50.0	52.1	54.2	56.2	39.5	33.5	45.4	46.3	84.5	97.5	98.6	100	96.9	99.2
d	9%	1%	9%	2%	6%	7%	3%	9%	8%	4%	1%	2%	8%	9%	5%	7%	1%	1%	7%	3%	3%	2%	6%	%	3%	6%
Standard Deviation	0.1 %	0.3 %	0.2 %	0.2 %	0.4 %	0.1 %	7.5 %	0.5 %	0.6 %	1.4 %	3.3 %	2.6 %	3.7 %	3.4 %	1.6 %	4.1 %	2%	1.5 %	4.1 %	1.8 %	0.9 %	5.5 %	3.6 %	3.2 %	0.2 %	0.8 %
Timed Apache Compilation - Time To Compil	57. 07	38. 35	38. 05	33. 05	47. 21	32. 06	27. 90	37. 50	57. 62	53. 42	49. 56	51. 34	46. 83	46. 68	44. 93	43. 20	54. 20	58. 09								
Normalized	48.8	72.7	73.3	84.4	59.1	87.0	100	74.4	48.4	52.2	56.3	54.3	59.5	59.7	62.1	64.5	51.4	48.0								
d	9%	5%	2%	2%	%	2%	%	%	2%	3%	%	4%	8%	7%	%	8%	8%	3%								
Standard Deviation	0.2 %	0.6 %	0.7 %	1%	0.1 %	0.6 %	0.8 %	0.1 %	0.5 %	0.7 %	0.3 %	0.3 %	0.5 %	0.2 %	0.4 %	0.1 %	1.1 %	0.1 %								
Timed Linux Kernel Compilation - Time To Compil	20 1.38	11 9.68	11 7.62	89. 43	15 9.96	97. 96	74. 60	89. 61	17 5.18	15 6.19	14 5.20	16 6.26	15 1.22	14 6.94	14 1.34	13 7.09	18 2.85	19 3.02	17 2.45	17 0.64	18 5.22	16 0.78	16 2.08	16 5.08	16 7.57	16 5.55
Normalized	37.0	62.3	63.4	83.4	46.6	76.1	100	83.2	42.5	47.7	51.3	44.8	49.3	50.7	52.7	54.4	40.8	38.6	43.2	43.7	40.2	46.4	46.0	45.1	44.5	45.0
d	4%	3%	2%	2%	4%	5%	%	5%	8%	6%	8%	7%	3%	7%	8%	2%	%	5%	6%	2%	8%	%	4%	9%	2%	6%
Standard Deviation	0.6 %	1%	1.1 %	1.6 %	0.6 %	0.8 %	1.2 %	1.2 %	0.9 %	0.8 %	0.8 %	0.8 %	0.7 %	0.8 %	0.9 %	0.4 %	0.4 %	0.9 %	1.1 %	0.9 %	0.7 %	0.9 %	0.8 %	0.9 %	0.9 %	0.7 %
Open Porous Media - Upscale-Relperm	74. 33	59. 45	57. 55	56. 28	10 8.35	10 2.54	99. 38	11 5.56	12 4.30	12 3.56	12 3.25	94. 23	89. 73	91. 75	88. 47	87. 61	91. 49	95. 56	18 1.65	17 7.08	15 7.77	15 2.43			15 9.07	15 6.72
Normalized	75.7	94.6	97.7	100	51.9	54.8	56.6	48.7	45.2	45.5	45.6	59.7	62.7	61.3	63.6	64.2	61.5	58.8	30.9	31.7	35.6	36.9			35.3	35.9
d	2%	7%	9%	%	4%	9%	3%	%	8%	5%	6%	3%	2%	4%	1%	4%	1%	9%	8%	8%	7%	2%			8%	1%
Standard Deviation	0.2 %	0.1 %	0.9 %	0.6 %	0.5 %	1.1 %	0.1 %	1.3 %	0.1 %	0.4 %	0.1 %	0.3 %	0.6 %	0.4 %	0.1 %	0.1 %	0.2 %	0.7 %	0.8 %	0.8 %	0.8 %	0.9			0.4 %	0.4 %

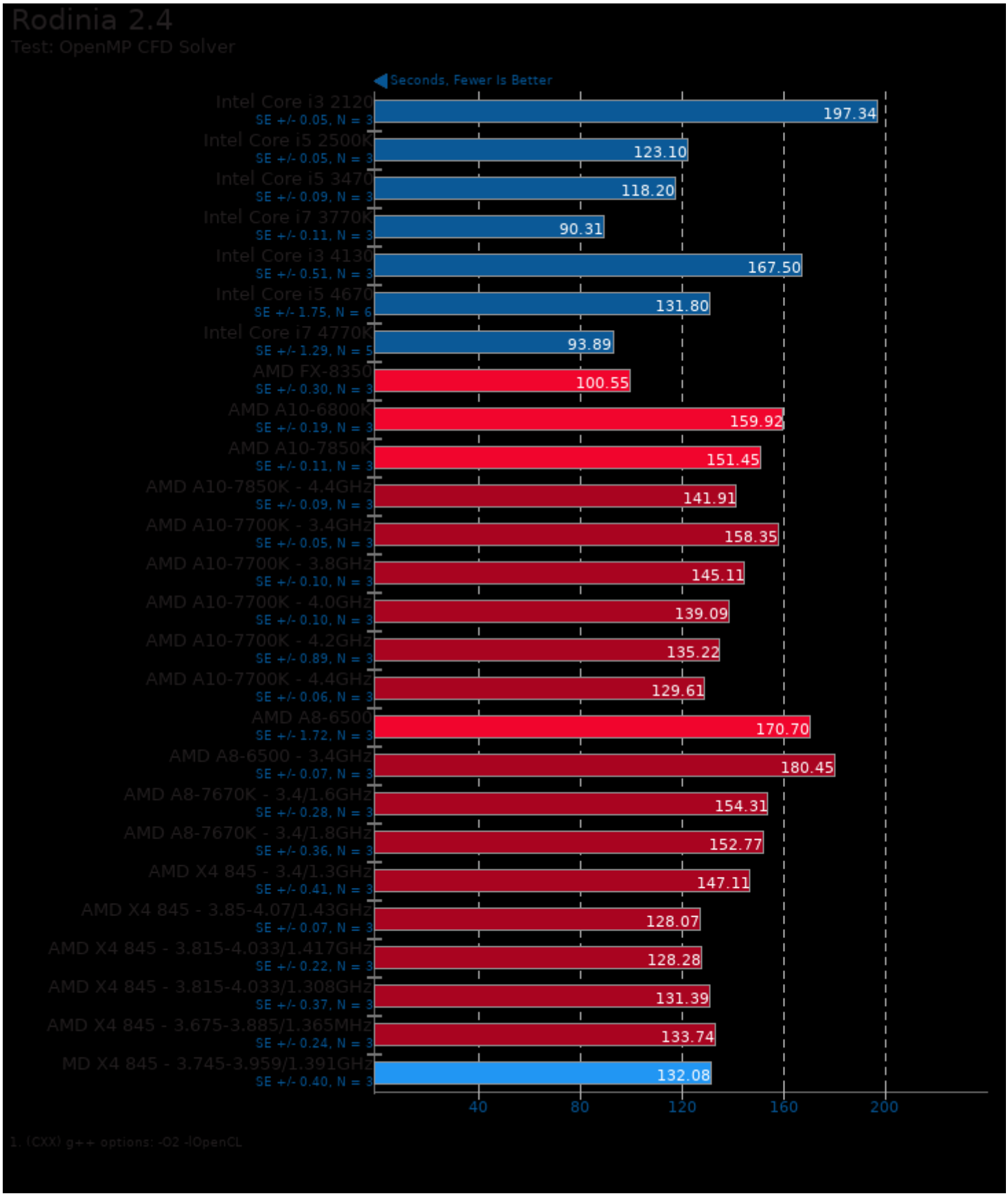
AMD A10-7850K Kaveri APU Linux

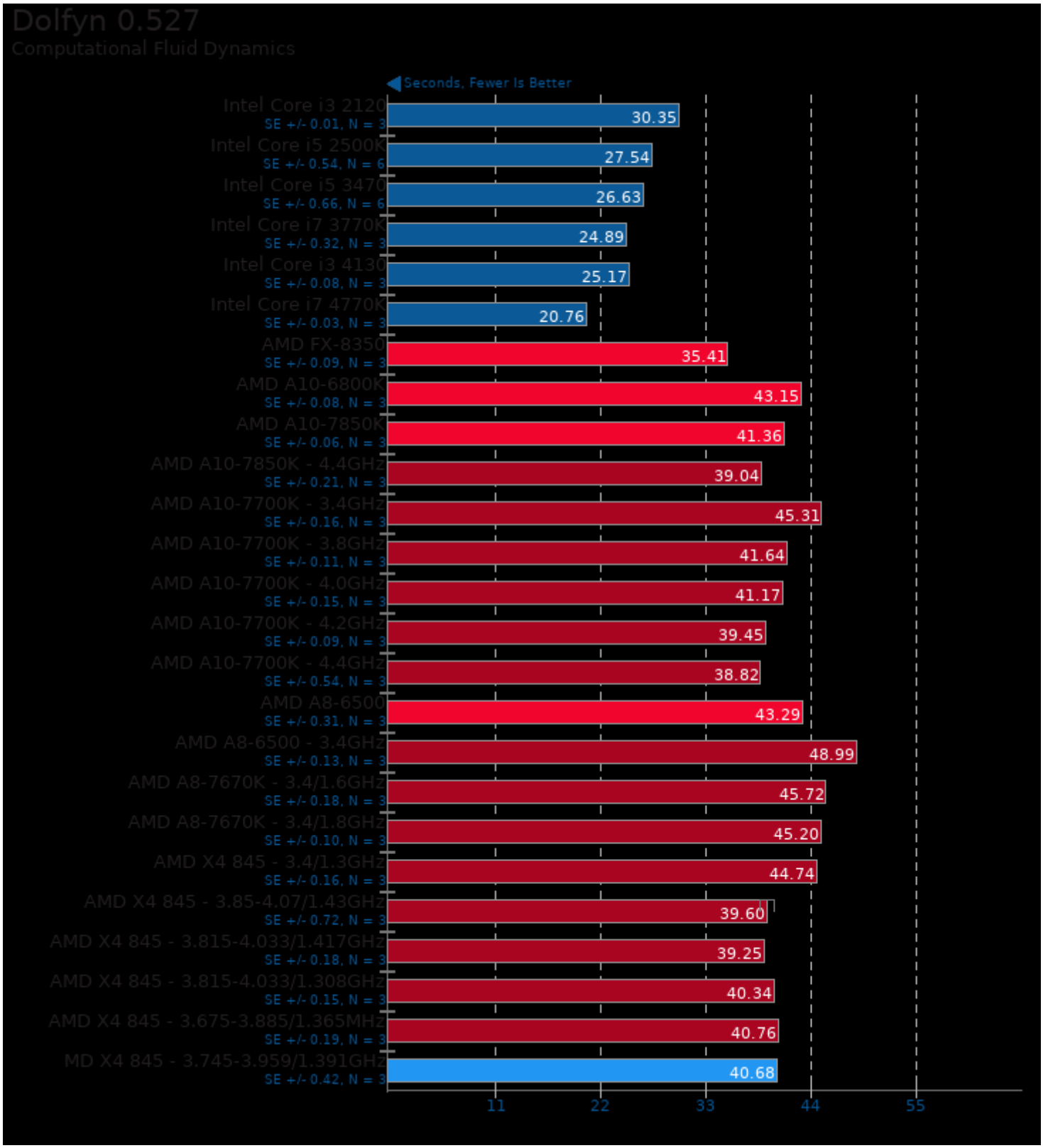
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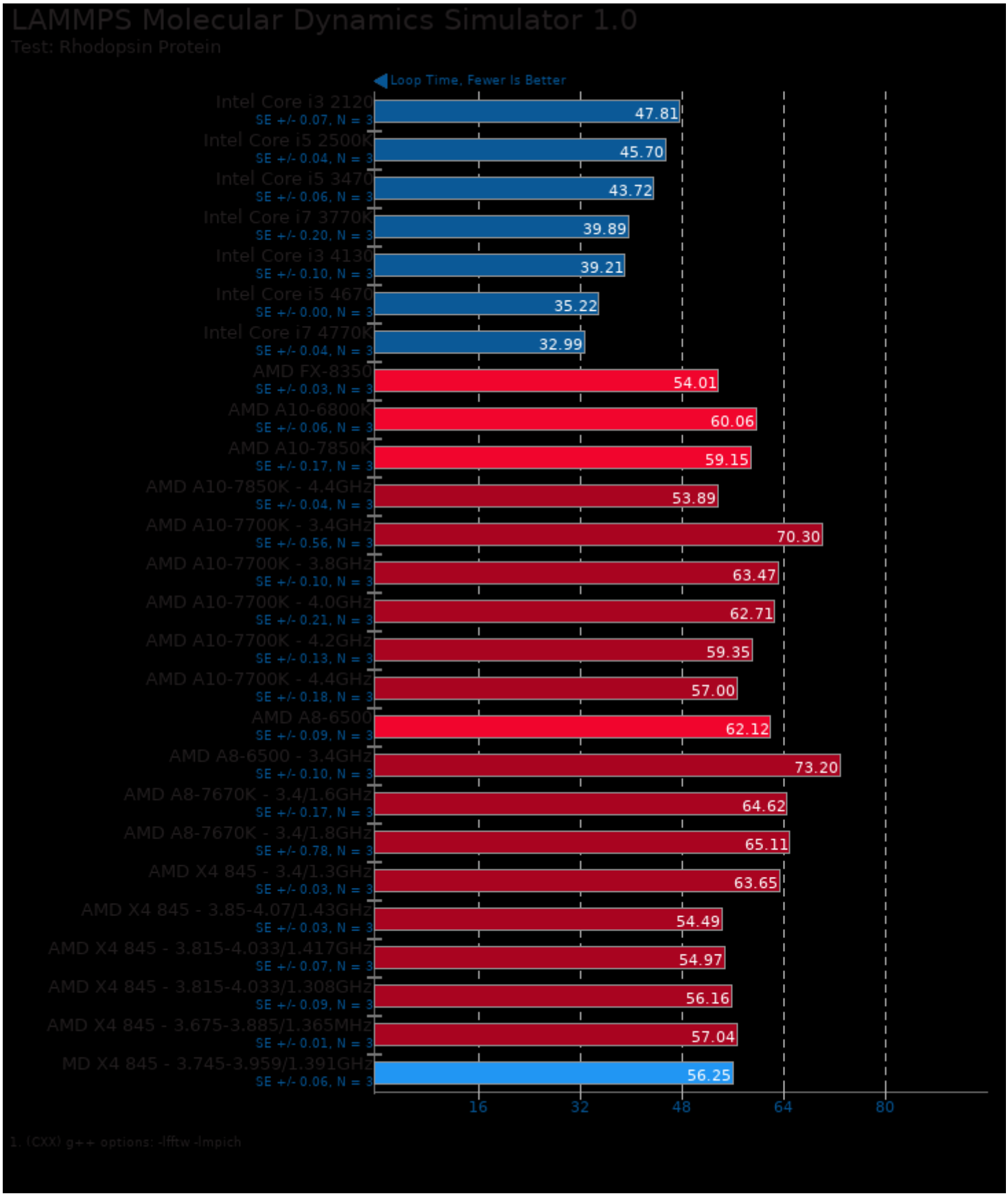
AMD A10-7850K Kaveri APU Linux

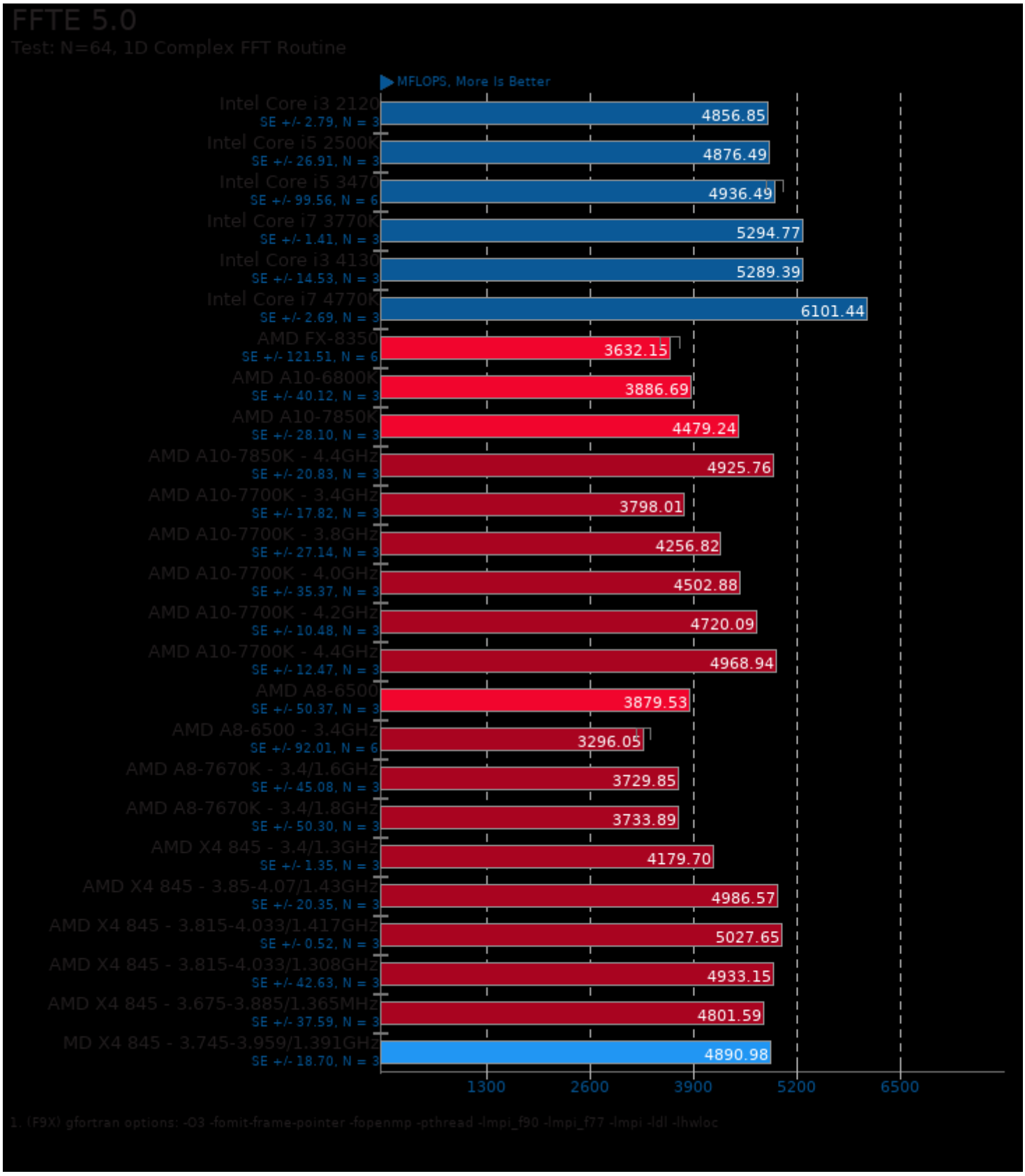
Phoronix Test Suite

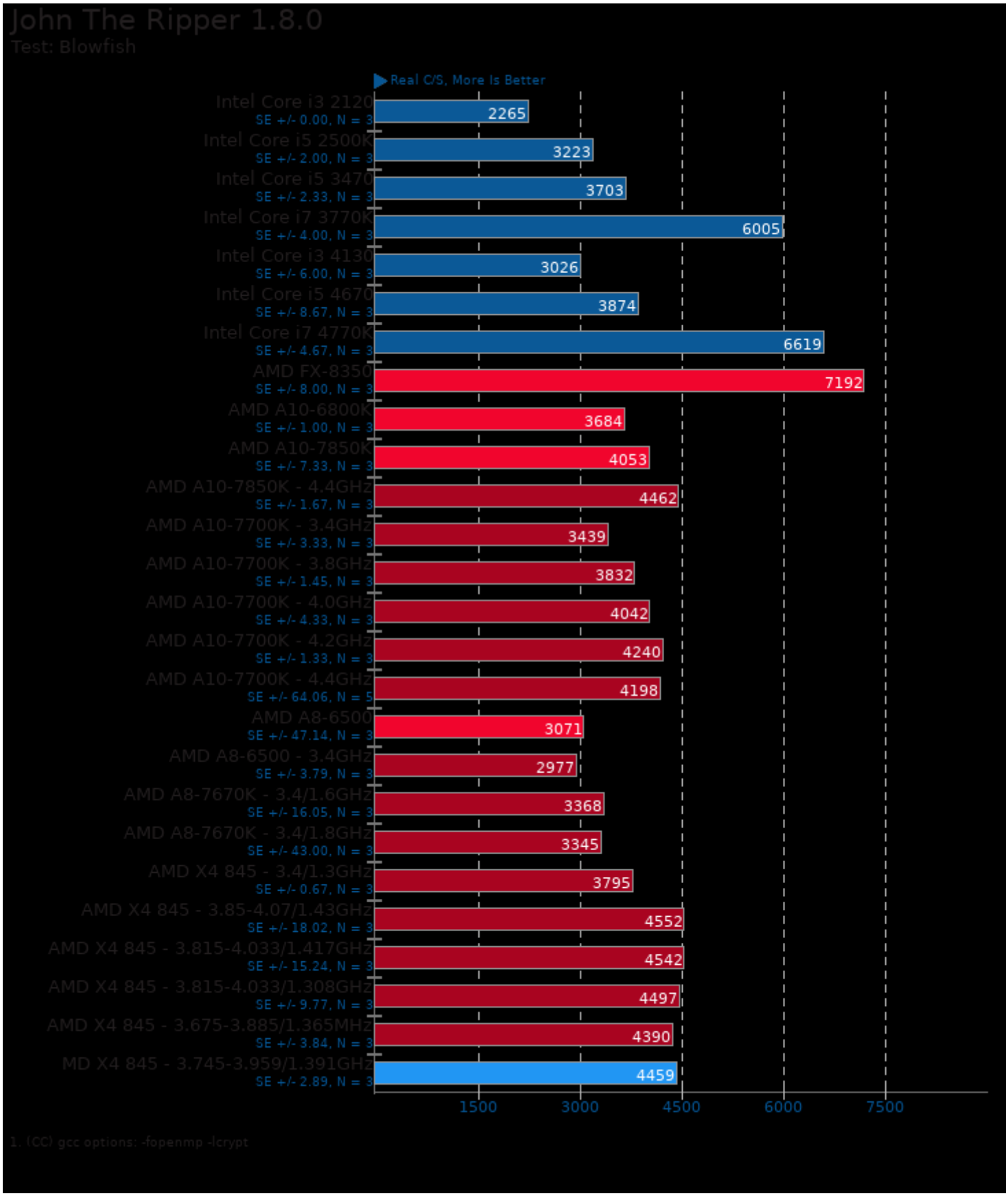
Bullet Physics Engine - Prim Times	1.33	1.31	1.32	1.21	1.18	1.07	**1.02**	1.40	1.51	1.42	1.31	1.69	1.54	1.46	1.41	1.37	1.55	1.83	1.69	1.70	**1.90**			1.71	1.69
Normalized	76.6	77.8	77.2	84.3	86.4	95.3	100	72.8	67.5	71.8	77.8	60.3	66.2	69.8	72.3	74.4	65.8	55.7	60.3	60%	53.6			59.6	60.3
Standard Deviation	9%	6%	7%	%	4%	3%	%	6%	5%	3%	6%	6%	3%	6%	4%	5%	1%	4%	6%		8%			5%	6%
	0.4	0.2	0.1	0.1	0.4	0.6	0.2	0.4	0.5	0.6	0.2	1%	0.7	0.6	1.5	0.9	0.8	1%	0.8	0.7	0.2			0.4	0.1
	%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%		%	%	%			%	%
FLAC Audio Encoding - WAV To FLAC	7.09	6.98	6.78	6.14	5.44	4.93	**4.76**	7.50	7.70	7.42	6.75	8.26	7.40	7.03	6.70	6.40	7.21	**8.66**	6.54	6.54	5.85			5.06	5.00
Normalized	67.1	68.1	70.2	77.5	87.5	96.5	100	63.4	61.8	64.1	70.5	57.6	64.3	67.7	71.0	74.3	66.0	54.9	72.7	72.7	81.3			94.0	95.2
Standard Deviation	4%	9%	1%	2%	%	5%	%	7%	2%	5%	2%	3%	2%	1%	4%	8%	2%	7%	8%	8%	7%			7%	%
	0.2	3.4	0.3	0.8	0.1	0.1	0.7	0.3	0.3	0%	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.1	0.3	0.3	0.2			0.3	0.8
	%	%	%	%	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%			%	%
Opus Codec Encoding - W.O.E.O.D (sec)	10.99	10.88	10.84	10.04	10.47	9.47	**9.12**	12.06	12.37	12.41	11.27								14.98	**15.09**	13.91			12.03	11.80
Normalized	82.9	83.8	84.1	90.8	87.1	96.3	100	75.6	73.7	73.4	80.9								60.8	60.4	65.5			75.8	77.2
Standard Deviation	8%	2%	3%	4%	1%	%	%	2%	3%	9%	2%								8%	4%	6%			1%	9%
	0.1	3.4	3.1	0%	0.3	0.3	0.3	0.2	0.1	0.2	0.3								0.3	0.9	0.2			0.1	0.3
	%	%	%		%	%	%	%	%	%	%								%	%	%			%	%
Hierarchical INTegration - FLOAT (QUIPs)	26.63	26.92	26.98	29.48	32.01	35.53	**36.76**	27.67	26.91	21.27	22.35	**17.56**	19.95	21.02	22.15	23.07	26.87	22.25	22.03	22.16	23.02			26.24	27.00
Normalized	72.4	73.2	73.3	80.2	87.0	96.6	100	75.2	73.2	57.8	60.8	47.7	54.2	57.2	60.2	62.7	73.1	60.5	59.9	60.3	62.6			71.3	73.4
Standard Deviation	5%	4%	9%	%	9%	7%	%	8%	2%	7%	1%	7%	9%	%	6%	7%	1%	3%	3%	%	2%			9%	5%
	0.1	0.2	0.2	0.2	0.2	0.1	0.9	0.5	0.9	1.9	1.6	2.2	0.5	0.9	1.6	0.8	0.5	1.5	0.9	0.4	0.6			0.9	0.8
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%			%	%
OpenSSL - R.4.b.P (Signs/sec)	**23.27**	42.04	45.70	55.27	28.03	53.67	61.81	**70.60**	36.50	35.23	38.76	29.79	33.00	35.40	36.80	38.40	31.99	29.06	29.03	29.16	27.02			36.24	36.87
Normalized	32.9	60.0	64.2	78.2	39.7	75.9	86.6	100	51.0	49.8	54.8	42.1	47.0	49.6	52.1	54.7	44.8	41.9	42.2	42.2	39.2			51.4	52.2
Standard Deviation	6%	7%	7%	6%	%	8%	4%	%	6%	5%	9%	8%	4%	2%	4%	2%	8%	3%	1%	4%	9%			5%	2%
	0.1	0%	0.1	0%	0.1	0.2	0%	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.2	0.1	2%	0.1	0.1	0%	10.5			0.2	0.2
	%		%		%	%		%	%	%	%	%	%	%	%	%		%	%		%			%	%

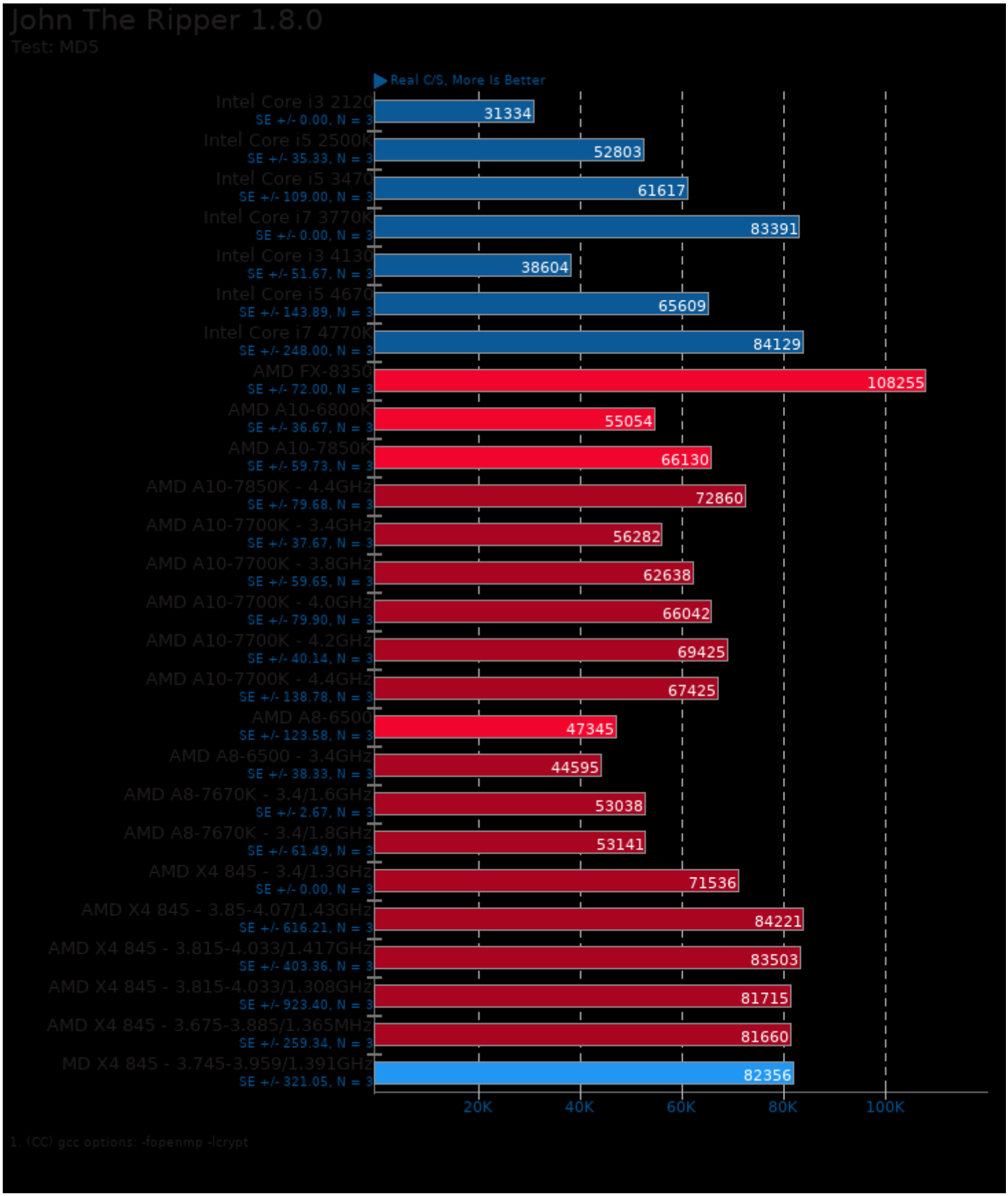

Rodinia 2.4
Test: OpenMP CFD Solver
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.05, N = 3
197.34
Intel Core i5 2500K
SE +/- 0.05, N = 3
123.10
Intel Core i5 3470
SE +/- 0.09, N = 3
118.20
Intel Core i7 3770K
SE +/- 0.11, N = 3
90.31
Intel Core i3 4130
SE +/- 0.51, N = 3
167.50
Intel Core i5 4670
SE +/- 1.75, N = 6
131.80
Intel Core i7 4770K
SE +/- 1.29, N = 5
93.89
AMD FX-8350
SE +/- 0.30, N = 3
100.55
AMD A10-6800K
SE +/- 0.19, N = 3
159.92
AMD A10-7850K
SE +/- 0.11, N = 3
151.45
AMD A10-7850K - 4.4GHz
SE +/- 0.09, N = 3
141.91
AMD A10-7700K - 3.4GHz
SE +/- 0.05, N = 3
158.35
AMD A10-7700K - 3.8GHz
SE +/- 0.10, N = 3
145.11
AMD A10-7700K - 4.0GHz
SE +/- 0.10, N = 3
139.09
AMD A10-7700K - 4.2GHz
SE +/- 0.89, N = 3
135.22
AMD A10-7700K - 4.4GHz
SE +/- 0.06, N = 3
129.61
AMD A8-6500
SE +/- 1.72, N = 3
170.70
AMD A8-6500 - 3.4GHz
SE +/- 0.07, N = 3
180.45
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.28, N = 3
154.31
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.36, N = 3
152.77
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.41, N = 3
147.11
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 0.07, N = 3
128.07
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 0.22, N = 3
128.28
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 0.37, N = 3
131.39
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.24, N = 3
133.74
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.40, N = 3
132.08
40
80
120
160
200
1. (CXX) g++ options: -O2 -lOpenCL

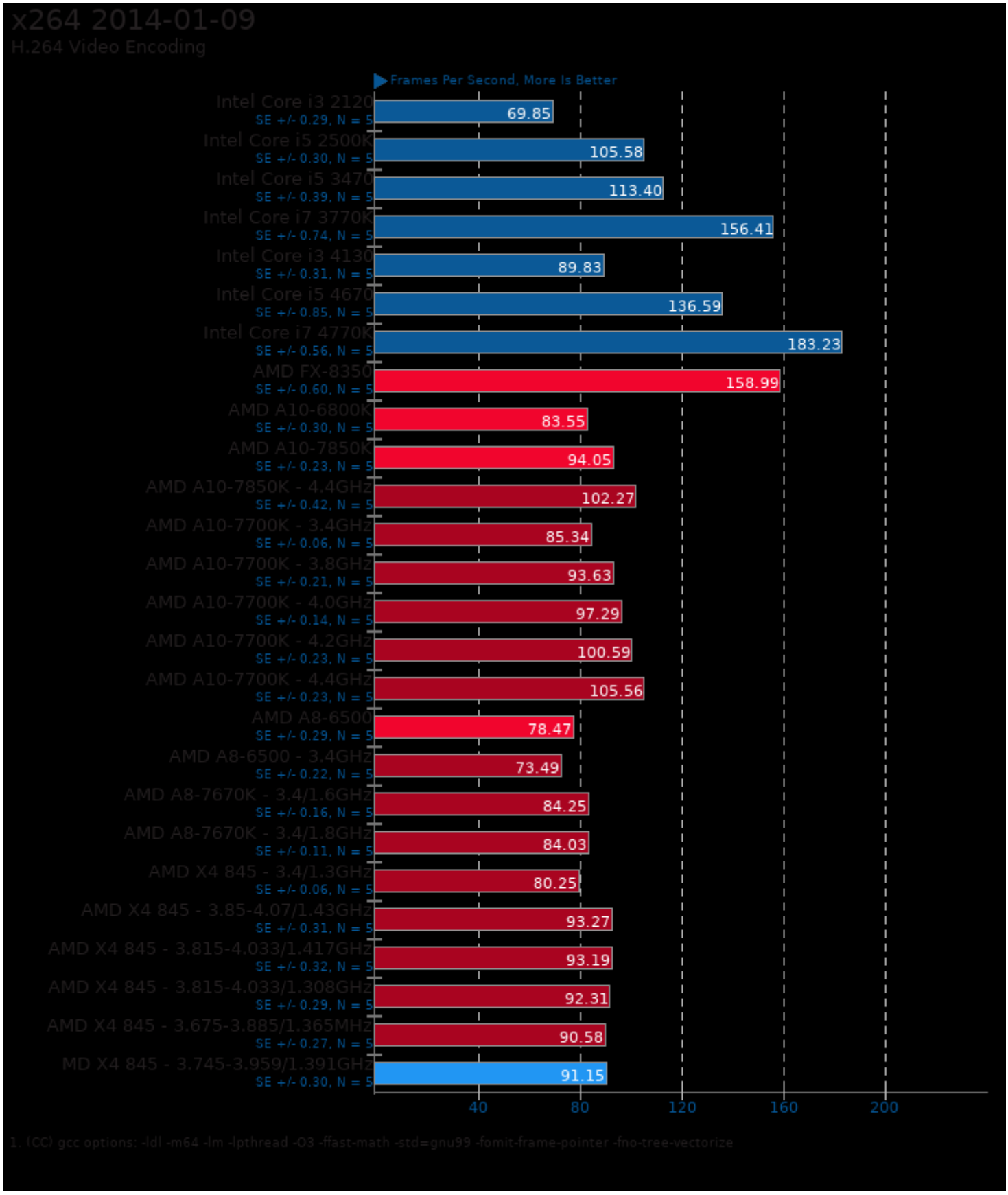

Dolfyn 0.527
Computational Fluid Dynamics
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.01, N = 3
30.35
Intel Core i5 2500K
SE +/- 0.54, N = 6
27.54
Intel Core i5 3470
SE +/- 0.66, N = 6
26.63
Intel Core i7 3770K
SE +/- 0.32, N = 3
24.89
Intel Core i3 4130
SE +/- 0.08, N = 3
25.17
Intel Core i7 4770K
SE +/- 0.03, N = 3
20.76
AMD FX-8350
SE +/- 0.09, N = 3
35.41
AMD A10-6800K
SE +/- 0.08, N = 3
43.15
AMD A10-7850K
SE +/- 0.06, N = 3
41.36
AMD A10-7850K - 4.4GHz
SE +/- 0.21, N = 3
39.04
AMD A10-7700K - 3.4GHz
SE +/- 0.16, N = 3
45.31
AMD A10-7700K - 3.8GHz
SE +/- 0.11, N = 3
41.64
AMD A10-7700K - 4.0GHz
SE +/- 0.15, N = 3
41.17
AMD A10-7700K - 4.2GHz
SE +/- 0.09, N = 3
39.45
AMD A10-7700K - 4.4GHz
SE +/- 0.54, N = 3
38.82
AMD A8-6500
SE +/- 0.31, N = 3
43.29
AMD A8-6500 - 3.4GHz
SE +/- 0.13, N = 3
48.99
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.18, N = 3
45.72
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.10, N = 3
45.20
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.16, N = 3
44.74
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 0.72, N = 3
39.60
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 0.18, N = 3
39.25
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 0.15, N = 3
40.34
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.19, N = 3
40.76
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.42, N = 3
40.68
11
22
33
44
55

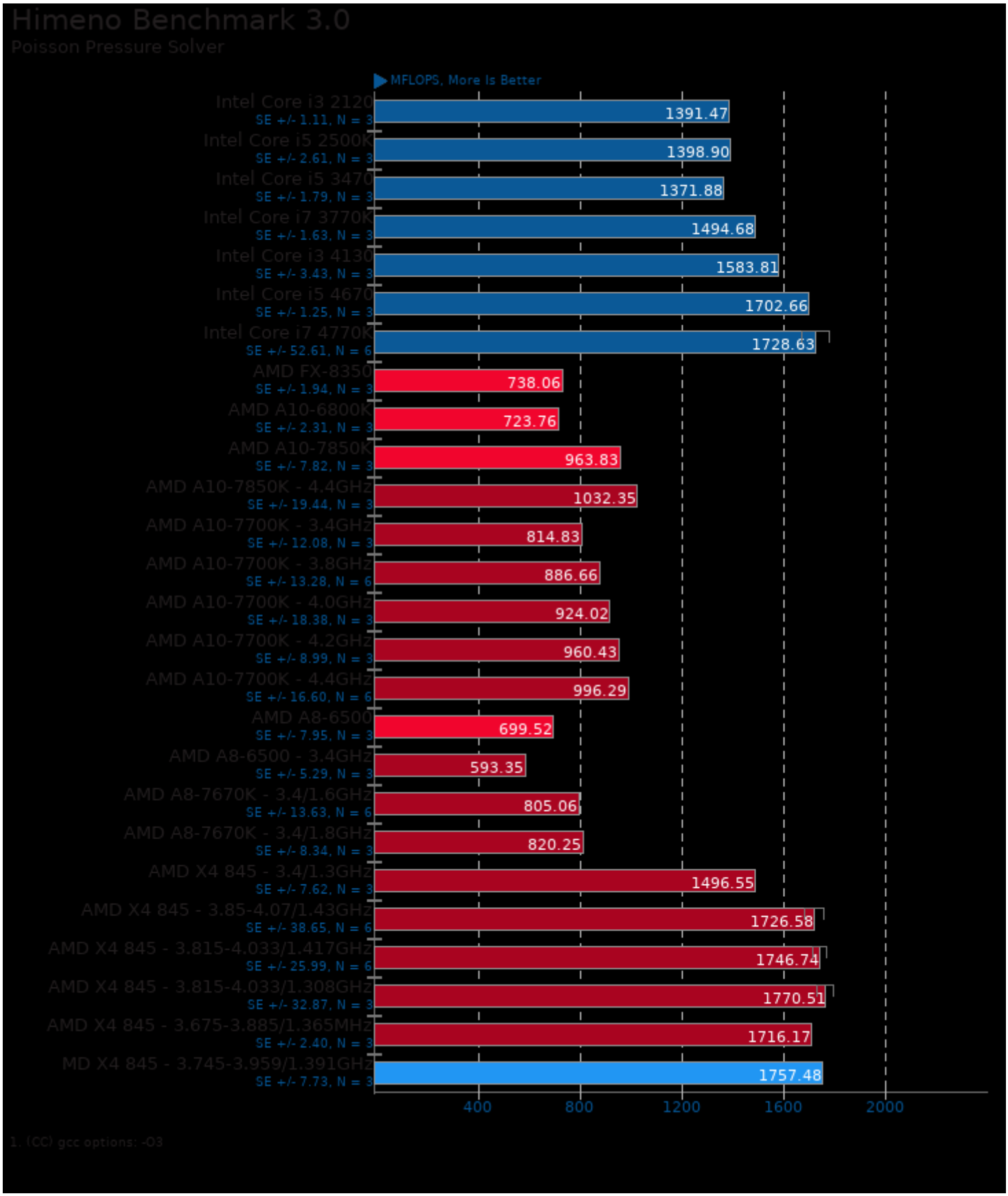

LAMMPS Molecular Dynamics Simulator 1.0
Test: Rhodopsin Protein
Loop Time, Fewer Is Better
Intel Core i3 2120
SE +/- 0.07, N = 3
47.81
Intel Core i5 2500K
SE +/- 0.04, N = 3
45.70
Intel Core i5 3470
SE +/- 0.06, N = 3
43.72
Intel Core i7 3770K
SE +/- 0.20, N = 3
39.89
Intel Core i3 4130
SE +/- 0.10, N = 3
39.21
Intel Core i5 4670
SE +/- 0.00, N = 3
35.22
Intel Core i7 4770K
SE +/- 0.04, N = 3
32.99
AMD FX-8350
SE +/- 0.03, N = 3
54.01
AMD A10-6800K
SE +/- 0.06, N = 3
60.06
AMD A10-7850K
SE +/- 0.17, N = 3
59.15
AMD A10-7850K - 4.4GHz
SE +/- 0.04, N = 3
53.89
AMD A10-7700K - 3.4GHz
SE +/- 0.56, N = 3
70.30
AMD A10-7700K - 3.8GHz
SE +/- 0.10, N = 3
63.47
AMD A10-7700K - 4.0GHz
SE +/- 0.21, N = 3
62.71
AMD A10-7700K - 4.2GHz
SE +/- 0.13, N = 3
59.35
AMD A10-7700K - 4.4GHz
SE +/- 0.18, N = 3
57.00
AMD A8-6500
SE +/- 0.09, N = 3
62.12
AMD A8-6500 - 3.4GHz
SE +/- 0.10, N = 3
73.20
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.17, N = 3
64.62
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.78, N = 3
65.11
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.03, N = 3
63.65
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 0.03, N = 3
54.49
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 0.07, N = 3
54.97
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 0.09, N = 3
56.16
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.01, N = 3
57.04
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.06, N = 3
56.25
16
32
48
64
80
1. (CXX) g++ options: -lfftw -lmpich

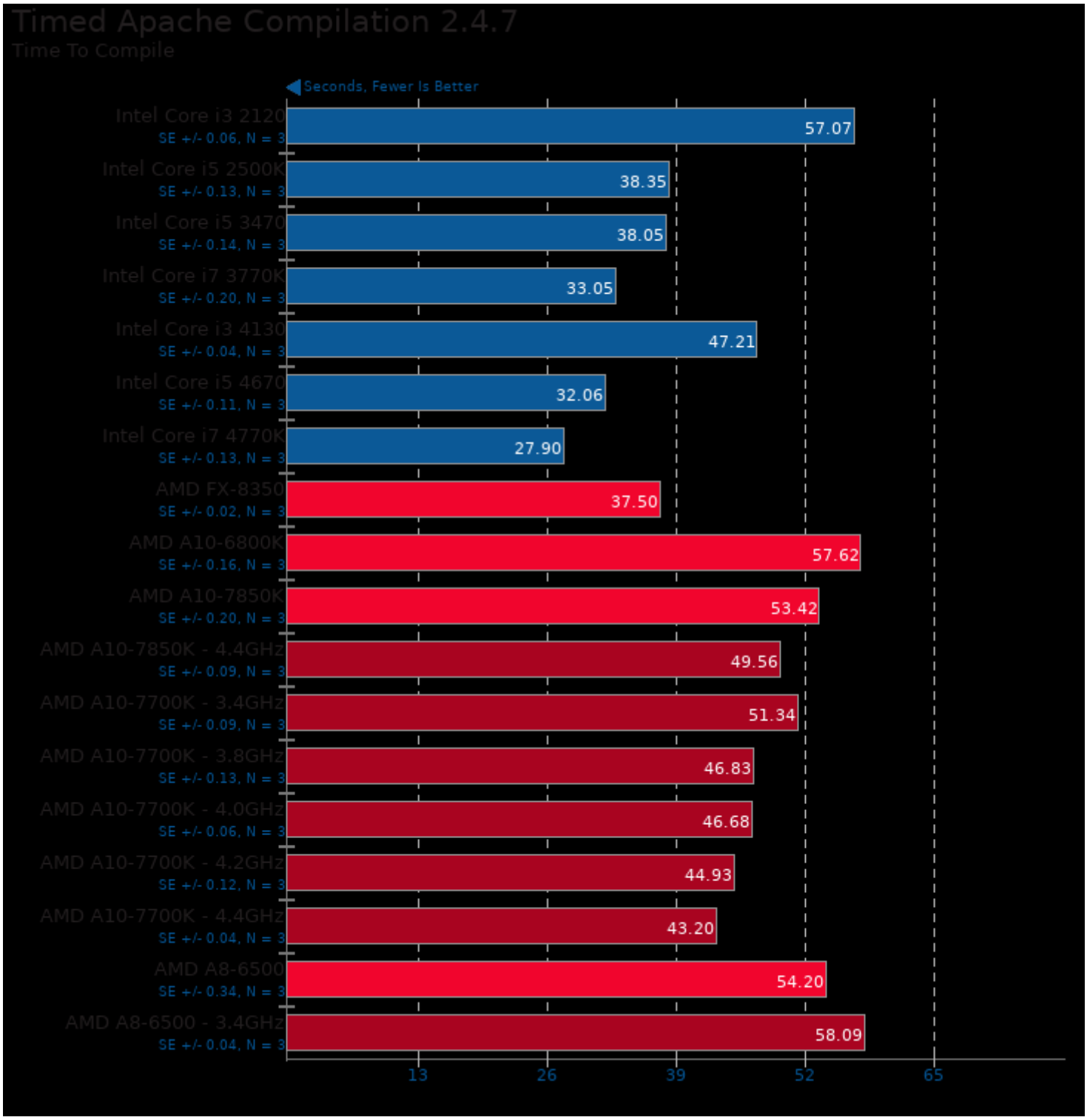

FFTE 5.0
Test: N=64, 1D Complex FFT Routine
MFLOPS, More Is Better
Intel Core i3 2120
SE +/- 2.79, N = 3
4856.85
Intel Core i5 2500K
SE +/- 26.91, N = 3
4876.49
Intel Core i5 3470
SE +/- 99.56, N = 6
4936.49
Intel Core i7 3770K
SE +/- 1.41, N = 3
5294.77
Intel Core i3 4130
SE +/- 14.53, N = 3
5289.39
Intel Core i7 4770K
SE +/- 2.69, N = 3
6101.44
AMD FX-8350
SE +/- 121.51, N = 6
3632.15
AMD A10-6800K
SE +/- 40.12, N = 3
3886.69
AMD A10-7850K
SE +/- 28.10, N = 3
4479.24
AMD A10-7850K - 4.4GHz
SE +/- 20.83, N = 3
4925.76
AMD A10-7700K - 3.4GHz
SE +/- 17.82, N = 3
3798.01
AMD A10-7700K - 3.8GHz
SE +/- 27.14, N = 3
4256.82
AMD A10-7700K - 4.0GHz
SE +/- 35.37, N = 3
4502.88
AMD A10-7700K - 4.2GHz
SE +/- 10.48, N = 3
4720.09
AMD A10-7700K - 4.4GHz
SE +/- 12.47, N = 3
4968.94
AMD A8-6500
SE +/- 50.37, N = 3
3879.53
AMD A8-6500 - 3.4GHz
SE +/- 92.01, N = 6
3296.05
AMD A8-7670K - 3.4/1.6GHz
SE +/- 45.08, N = 3
3729.85
AMD A8-7670K - 3.4/1.8GHz
SE +/- 50.30, N = 3
3733.89
AMD X4 845 - 3.4/1.3GHz
SE +/- 1.35, N = 3
4179.70
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 20.35, N = 3
4986.57
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 0.52, N = 3
5027.65
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 42.63, N = 3
4933.15
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 37.59, N = 3
4801.59
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 18.70, N = 3
4890.98
1300
2600
3900
5200
6500
1. (F9X) gfortran options: -O3 -fomit-frame-pointer -fopenmp -pthread -lmpi_f90 -lmpi_f77 -lmpi -ldl -lhwloc

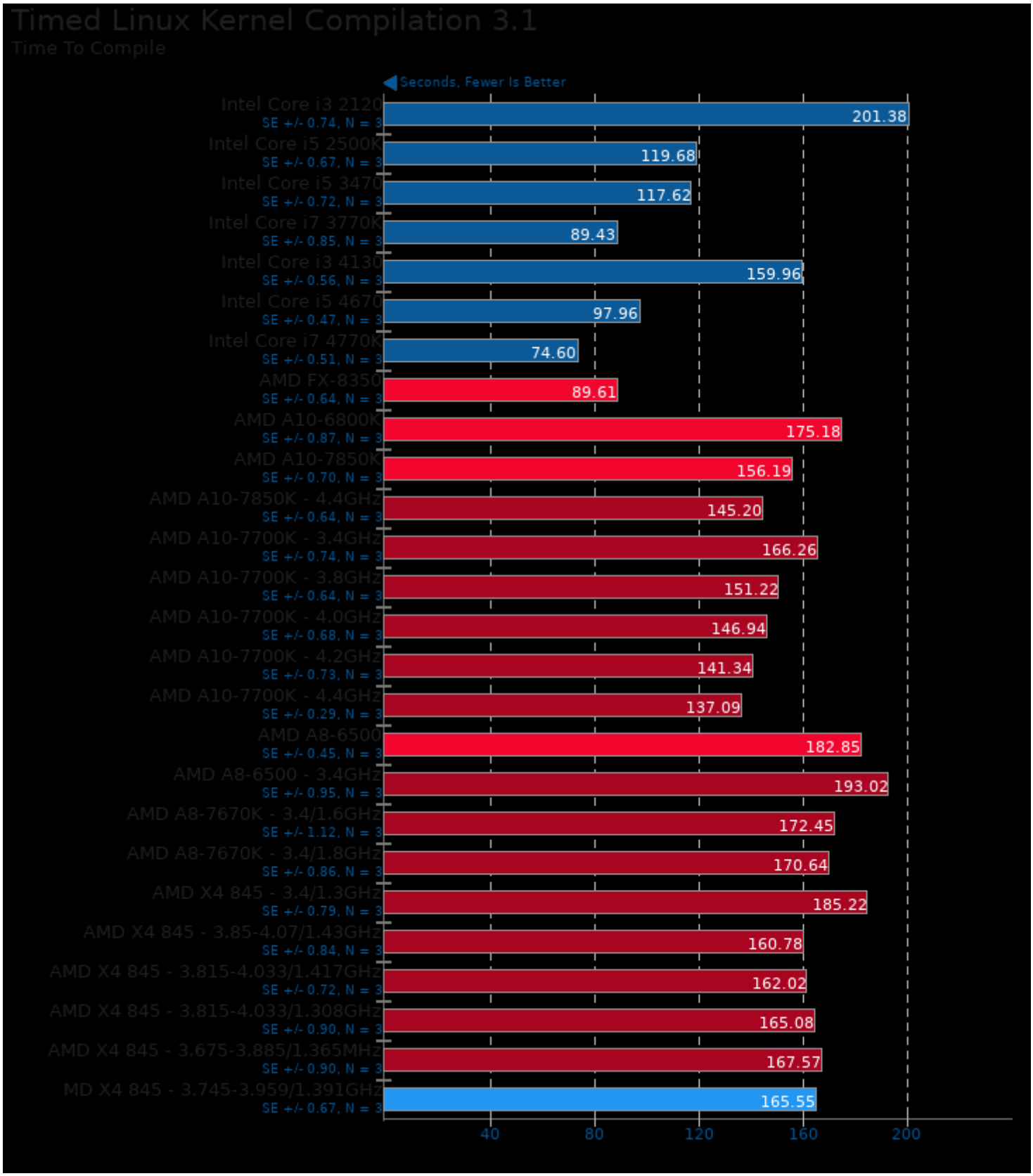

John The Ripper 1.8.0
Test: Blowfish
Real C/S, More Is Better
Intel Core i3 2120
SE +/- 0.00, N = 3
2265
Intel Core i5 2500K
SE +/- 2.00, N = 3
3223
Intel Core i5 3470
SE +/- 2.33, N = 3
3703
Intel Core i7 3770K
SE +/- 4.00, N = 3
6005
Intel Core i3 4130
SE +/- 6.00, N = 3
3026
Intel Core i5 4670
SE +/- 8.67, N = 3
3874
Intel Core i7 4770K
SE +/- 4.67, N = 3
6619
AMD FX-8350
SE +/- 8.00, N = 3
7192
AMD A10-6800K
SE +/- 1.00, N = 3
3684
AMD A10-7850K
SE +/- 7.33, N = 3
4053
AMD A10-7850K - 4.4GHz
SE +/- 1.67, N = 3
4462
AMD A10-7700K - 3.4GHz
SE +/- 3.33, N = 3
3439
AMD A10-7700K - 3.8GHz
SE +/- 1.45, N = 3
3832
AMD A10-7700K - 4.0GHz
SE +/- 4.33, N = 3
4042
AMD A10-7700K - 4.2GHz
SE +/- 1.33, N = 3
4240
AMD A10-7700K - 4.4GHz
SE +/- 64.06, N = 5
4198
AMD A8-6500
SE +/- 47.14, N = 3
3071
AMD A8-6500 - 3.4GHz
SE +/- 3.79, N = 3
2977
AMD A8-7670K - 3.4/1.6GHz
SE +/- 16.05, N = 3
3368
AMD A8-7670K - 3.4/1.8GHz
SE +/- 43.00, N = 3
3345
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.67, N = 3
3795
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 18.02, N = 3
4552
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 15.24, N = 3
4542
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 9.77, N = 3
4497
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 3.84, N = 3
4390
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 2.89, N = 3
4459
1500
3000
4500
6000
7500
1. (CC) gcc options: -fopenmp -lcrypt

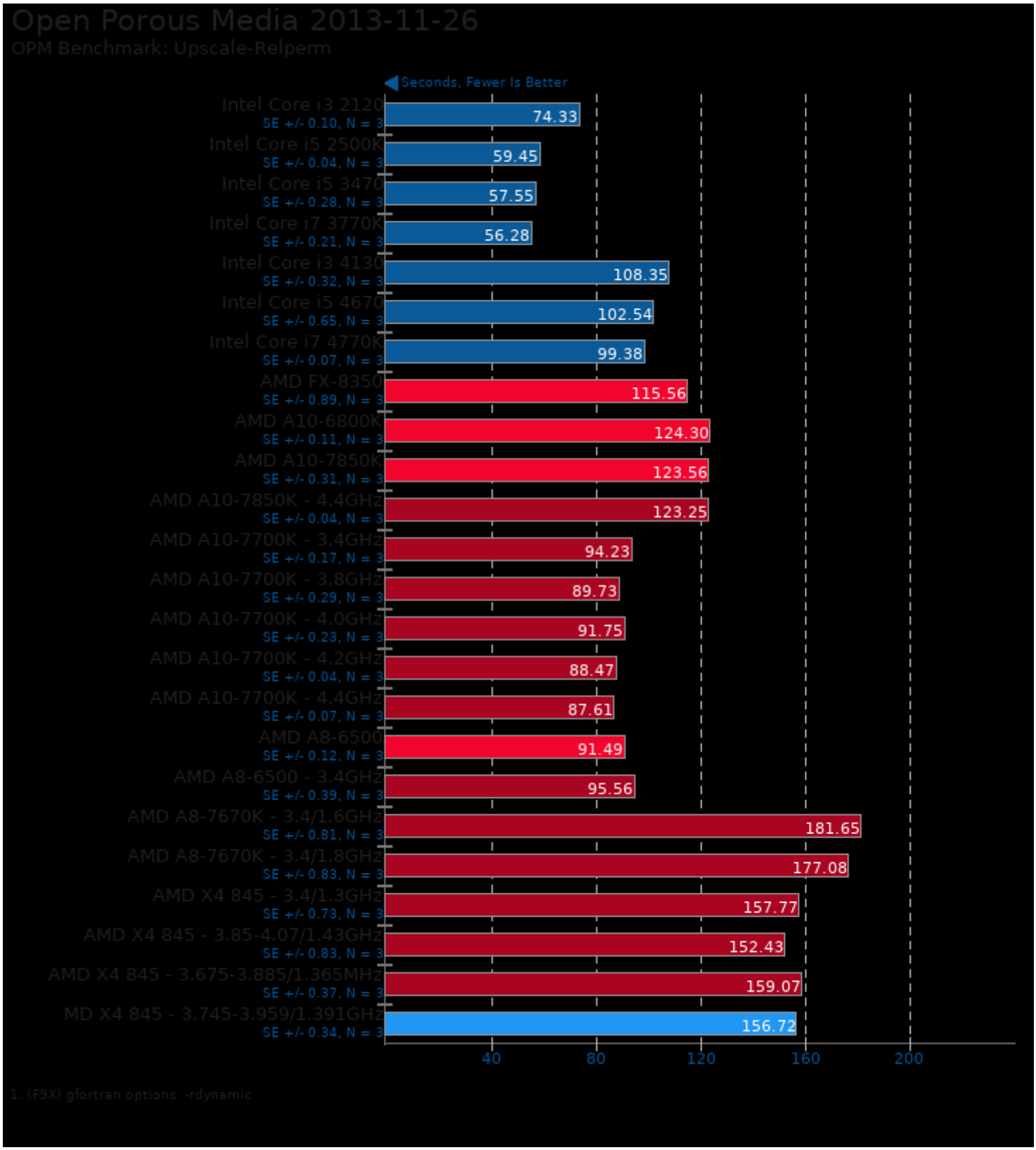

John The Ripper 1.8.0
Test: MD5
Real C/S, More Is Better
Intel Core i3 2120
SE +/- 0.00, N = 3
31334
Intel Core i5 2500K
SE +/- 35.33, N = 3
52803
Intel Core i5 3470
SE +/- 109.00, N = 3
61617
Intel Core i7 3770K
SE +/- 0.00, N = 3
83391
Intel Core i3 4130
SE +/- 51.67, N = 3
38604
Intel Core i5 4670
SE +/- 143.89, N = 3
65609
Intel Core i7 4770K
SE +/- 248.00, N = 3
84129
AMD FX-8350
SE +/- 72.00, N = 3
108255
AMD A10-6800K
SE +/- 36.67, N = 3
55054
AMD A10-7850K
SE +/- 59.73, N = 3
66130
AMD A10-7850K - 4.4GHz
SE +/- 79.68, N = 3
72860
AMD A10-7700K - 3.4GHz
SE +/- 37.67, N = 3
56282
AMD A10-7700K - 3.8GHz
SE +/- 59.65, N = 3
62638
AMD A10-7700K - 4.0GHz
SE +/- 79.90, N = 3
66042
AMD A10-7700K - 4.2GHz
SE +/- 40.14, N = 3
69425
AMD A10-7700K - 4.4GHz
SE +/- 138.78, N = 3
67425
AMD A8-6500
SE +/- 123.58, N = 3
47345
AMD A8-6500 - 3.4GHz
SE +/- 38.33, N = 3
44595
AMD A8-7670K - 3.4/1.6GHz
SE +/- 2.67, N = 3
53038
AMD A8-7670K - 3.4/1.8GHz
SE +/- 61.49, N = 3
53141
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.00, N = 3
71536
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 616.21, N = 3
84221
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 403.36, N = 3
83503
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 923.40, N = 3
81715
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 259.34, N = 3
81660
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 321.05, N = 3
82356
20K
40K
60K
80K
100K
1. (CC) gcc options: -fopenmp -lcrypt

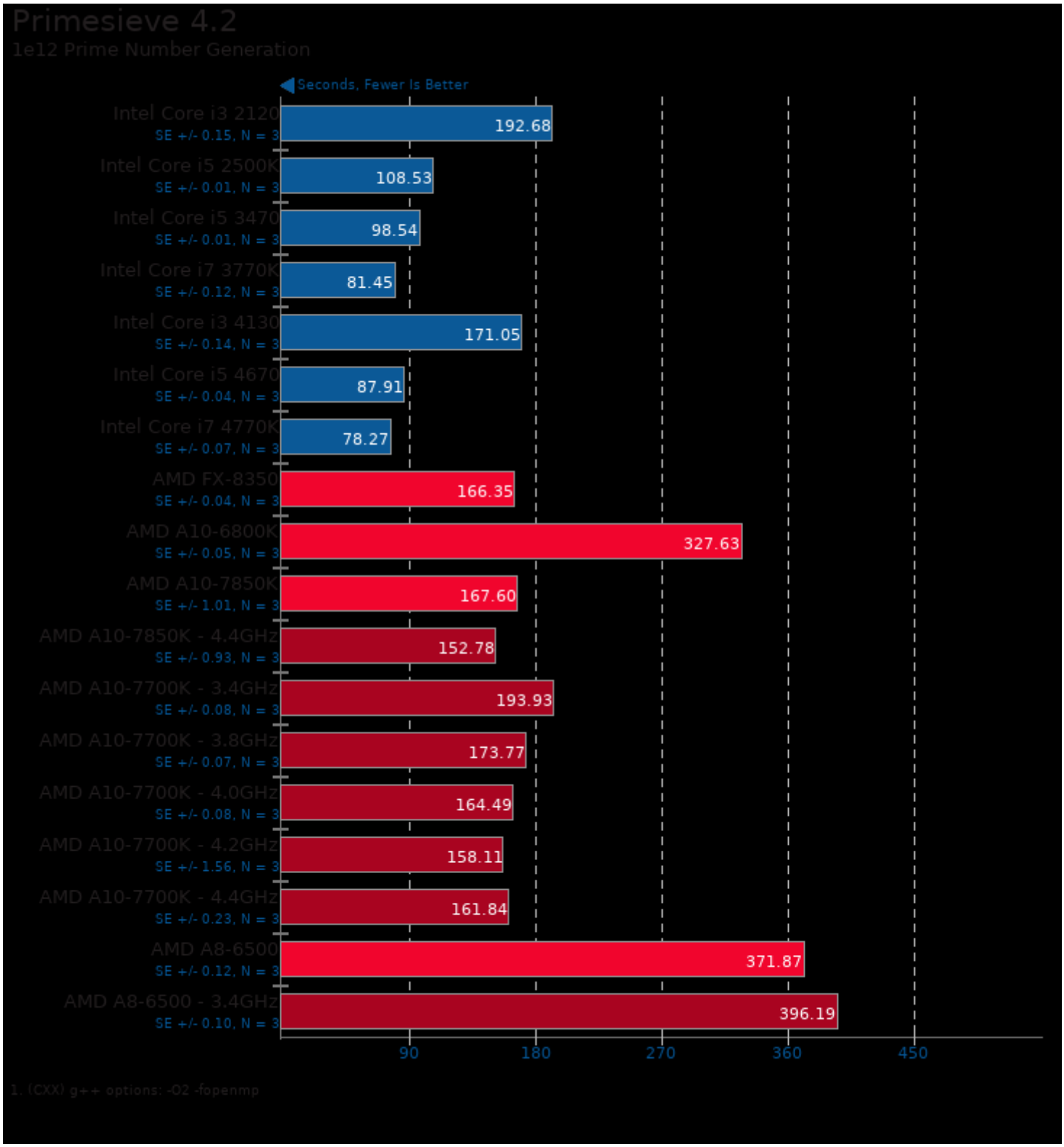

x264 2014-01-09
H.264 Video Encoding
Frames Per Second, More Is Better
Intel Core i3 2120
SE +/- 0.29, N = 5
69.85
Intel Core i5 2500K
SE +/- 0.30, N = 5
105.58
Intel Core i5 3470
SE +/- 0.39, N = 5
113.40
Intel Core i7 3770K
SE +/- 0.74, N = 5
156.41
Intel Core i3 4130
SE +/- 0.31, N = 5
89.83
Intel Core i5 4670
SE +/- 0.85, N = 5
136.59
Intel Core i7 4770K
SE +/- 0.56, N = 5
183.23
AMD FX-8350
SE +/- 0.60, N = 5
158.99
AMD A10-6800K
SE +/- 0.30, N = 5
83.55
AMD A10-7850K
SE +/- 0.23, N = 5
94.05
AMD A10-7850K - 4.4GHz
SE +/- 0.42, N = 5
102.27
AMD A10-7700K - 3.4GHz
SE +/- 0.06, N = 5
85.34
AMD A10-7700K - 3.8GHz
SE +/- 0.21, N = 5
93.63
AMD A10-7700K - 4.0GHz
SE +/- 0.14, N = 5
97.29
AMD A10-7700K - 4.2GHz
SE +/- 0.23, N = 5
100.59
AMD A10-7700K - 4.4GHz
SE +/- 0.23, N = 5
105.56
AMD A8-6500
SE +/- 0.29, N = 5
78.47
AMD A8-6500 - 3.4GHz
SE +/- 0.22, N = 5
73.49
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.16, N = 5
84.25
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.11, N = 5
84.03
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.06, N = 5
80.25
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 0.31, N = 5
93.27
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 0.32, N = 5
93.19
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 0.29, N = 5
92.31
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.27, N = 5
90.58
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.30, N = 5
91.15
40
80
120
160
200
1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fomit-frame-pointer -fno-tree-vectorize

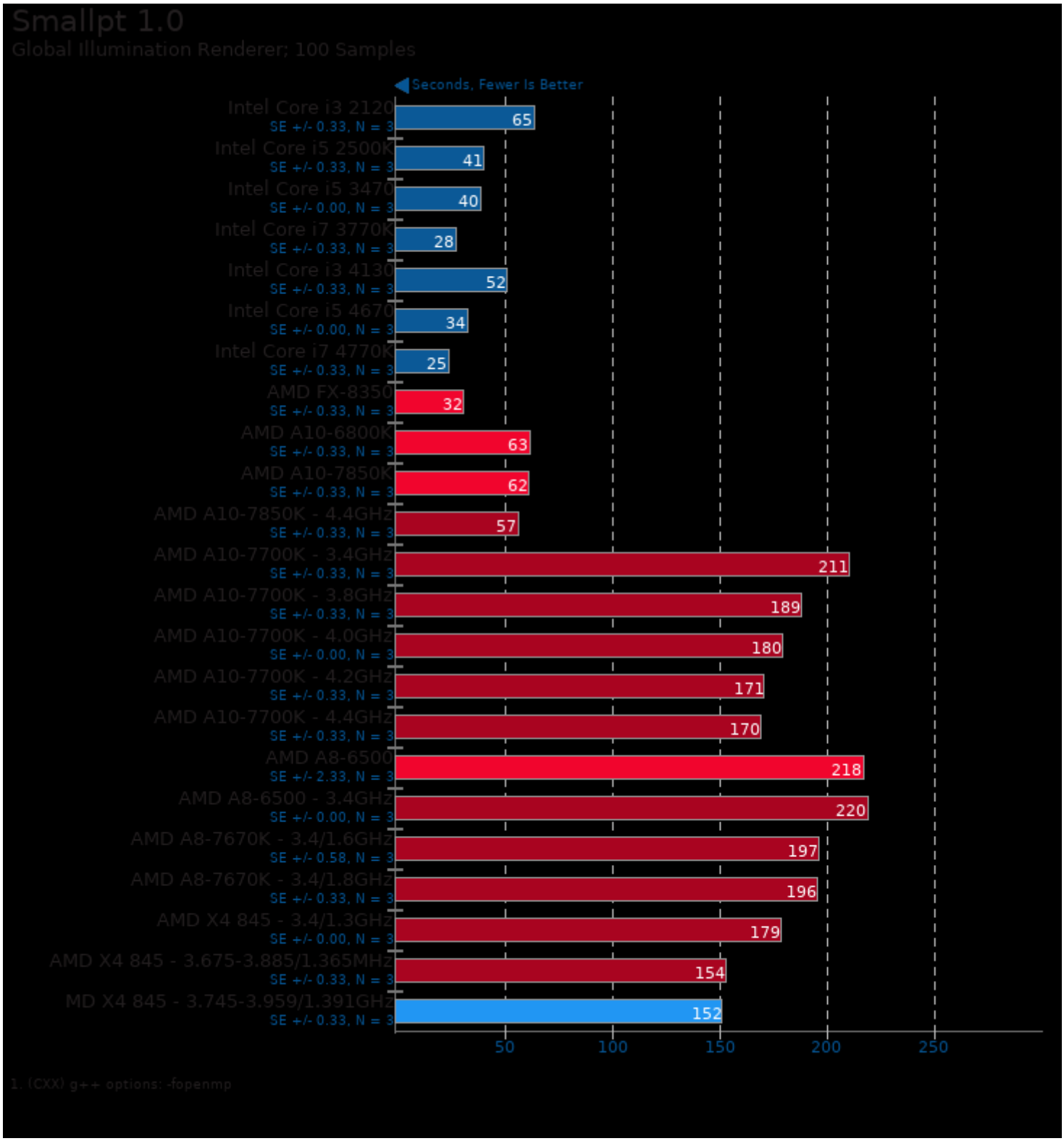

Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
Intel Core i3 2120
SE +/- 1.11, N = 3
1391.47
Intel Core i5 2500K
SE +/- 2.61, N = 3
1398.90
Intel Core i5 3470
SE +/- 1.79, N = 3
1371.88
Intel Core i7 3770K
SE +/- 1.63, N = 3
1494.68
Intel Core i3 4130
SE +/- 3.43, N = 3
1583.81
Intel Core i5 4670
SE +/- 1.25, N = 3
1702.66
Intel Core i7 4770K
SE +/- 52.61, N = 6
1728.63
AMD FX-8350
SE +/- 1.94, N = 3
738.06
AMD A10-6800K
SE +/- 2.31, N = 3
723.76
AMD A10-7850K
SE +/- 7.82, N = 3
963.83
AMD A10-7850K - 4.4GHz
SE +/- 19.44, N = 3
1032.35
AMD A10-7700K - 3.4GHz
SE +/- 12.08, N = 3
814.83
AMD A10-7700K - 3.8GHz
SE +/- 13.28, N = 6
886.66
AMD A10-7700K - 4.0GHz
SE +/- 18.38, N = 3
924.02
AMD A10-7700K - 4.2GHz
SE +/- 8.99, N = 3
960.43
AMD A10-7700K - 4.4GHz
SE +/- 16.60, N = 6
996.29
AMD A8-6500
SE +/- 7.95, N = 3
699.52
AMD A8-6500 - 3.4GHz
SE +/- 5.29, N = 3
593.35
AMD A8-7670K - 3.4/1.6GHz
SE +/- 13.63, N = 6
805.06
AMD A8-7670K - 3.4/1.8GHz
SE +/- 8.34, N = 3
820.25
AMD X4 845 - 3.4/1.3GHz
SE +/- 7.62, N = 3
1496.55
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 38.65, N = 6
1726.58
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 25.99, N = 6
1746.74
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 32.87, N = 3
1770.51
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 2.40, N = 3
1716.17
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 7.73, N = 3
1757.48
400
800
1200
1600
2000
1. (CC) gcc options: -O3

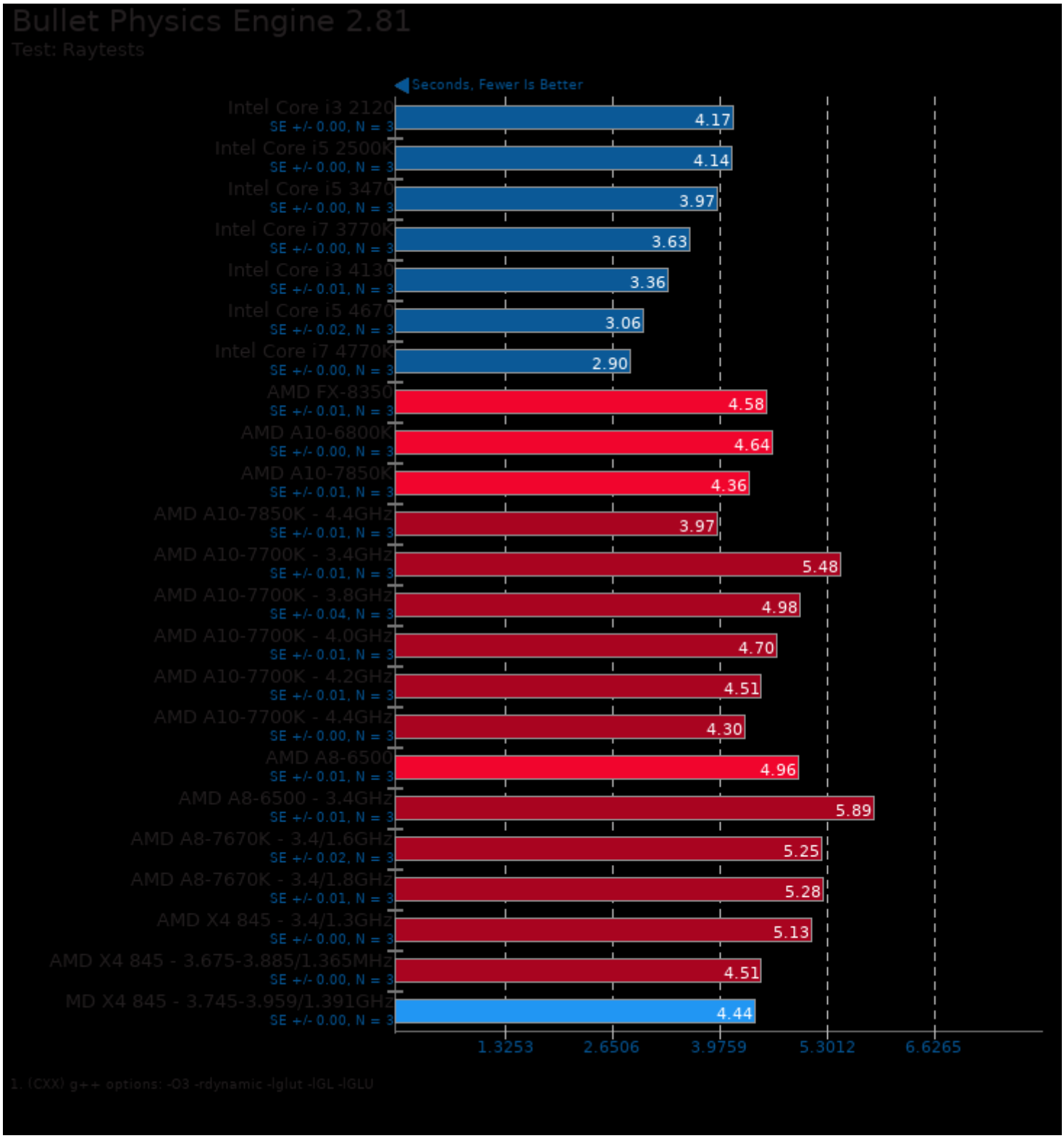

Timed Apache Compilation 2.4.7
Time To Compile
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.06, N = 3
57.07
Intel Core i5 2500K
SE +/- 0.13, N = 3
38.35
Intel Core i5 3470
SE +/- 0.14, N = 3
38.05
Intel Core i7 3770K
SE +/- 0.20, N = 3
33.05
Intel Core i3 4130
SE +/- 0.04, N = 3
47.21
Intel Core i5 4670
SE +/- 0.11, N = 3
32.06
Intel Core i7 4770K
SE +/- 0.13, N = 3
27.90
AMD FX-8350
SE +/- 0.02, N = 3
37.50
AMD A10-6800K
SE +/- 0.16, N = 3
57.62
AMD A10-7850K
SE +/- 0.20, N = 3
53.42
AMD A10-7850K - 4.4GHz
SE +/- 0.09, N = 3
49.56
AMD A10-7700K - 3.4GHz
SE +/- 0.09, N = 3
51.34
AMD A10-7700K - 3.8GHz
SE +/- 0.13, N = 3
46.83
AMD A10-7700K - 4.0GHz
SE +/- 0.06, N = 3
46.68
AMD A10-7700K - 4.2GHz
SE +/- 0.12, N = 3
44.93
AMD A10-7700K - 4.4GHz
SE +/- 0.04, N = 3
43.20
AMD A8-6500
SE +/- 0.34, N = 3
54.20
AMD A8-6500 - 3.4GHz
SE +/- 0.04, N = 3
58.09
13
26
39
52
65

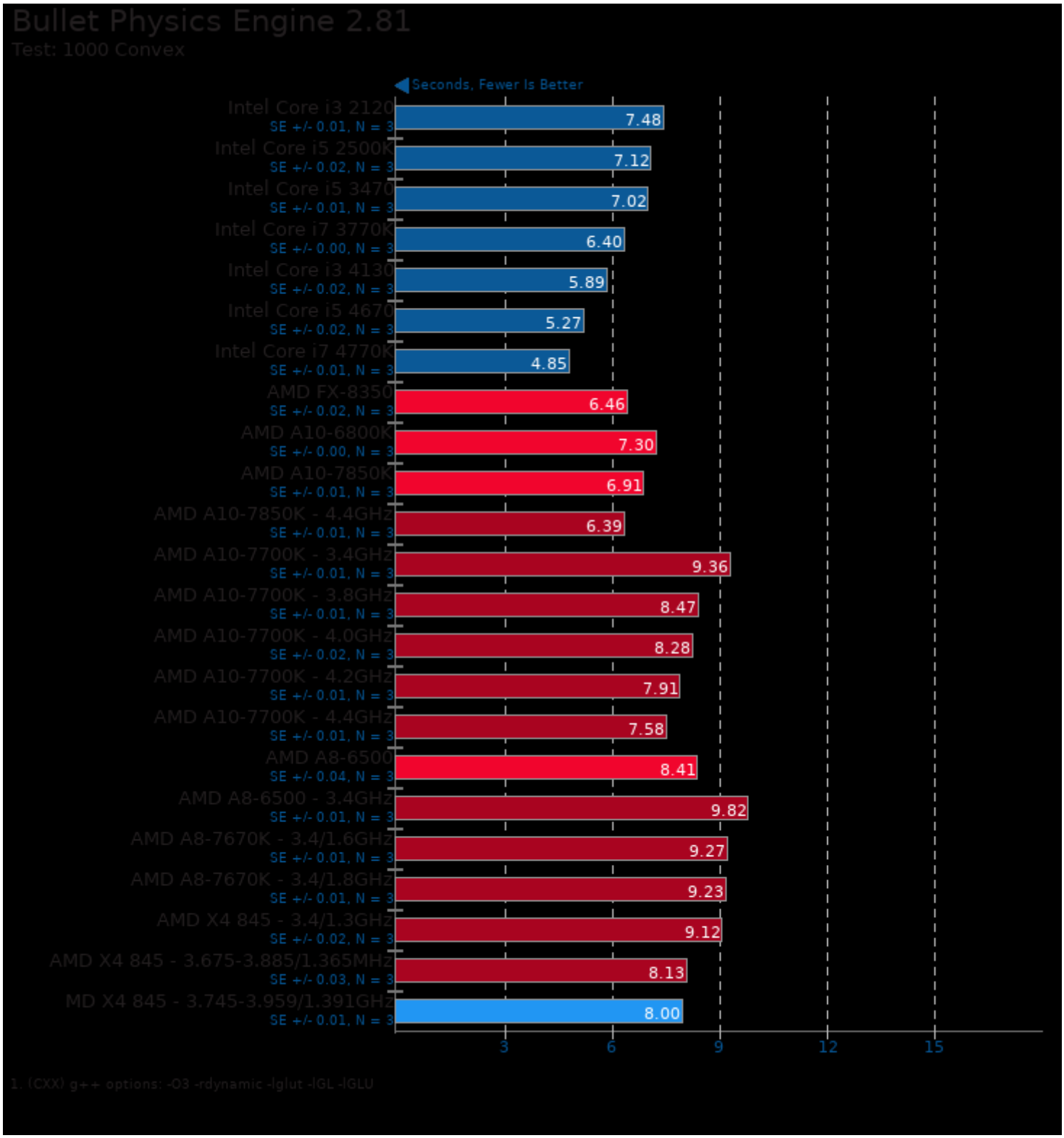

Timed Linux Kernel Compilation 3.1
Time To Compile
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.74, N = 3
201.38
Intel Core i5 2500K
SE +/- 0.67, N = 3
119.68
Intel Core i5 3470
SE +/- 0.72, N = 3
117.62
Intel Core i7 3770K
SE +/- 0.85, N = 3
89.43
Intel Core i3 4130
SE +/- 0.56, N = 3
159.96
Intel Core i5 4670
SE +/- 0.47, N = 3
97.96
Intel Core i7 4770K
SE +/- 0.51, N = 3
74.60
AMD FX-8350
SE +/- 0.64, N = 3
89.61
AMD A10-6800K
SE +/- 0.87, N = 3
175.18
AMD A10-7850K
SE +/- 0.70, N = 3
156.19
AMD A10-7850K - 4.4GHz
SE +/- 0.64, N = 3
145.20
AMD A10-7700K - 3.4GHz
SE +/- 0.74, N = 3
166.26
AMD A10-7700K - 3.8GHz
SE +/- 0.64, N = 3
151.22
AMD A10-7700K - 4.0GHz
SE +/- 0.68, N = 3
146.94
AMD A10-7700K - 4.2GHz
SE +/- 0.73, N = 3
141.34
AMD A10-7700K - 4.4GHz
SE +/- 0.29, N = 3
137.09
AMD A8-6500
SE +/- 0.45, N = 3
182.85
AMD A8-6500 - 3.4GHz
SE +/- 0.95, N = 3
193.02
AMD A8-7670K - 3.4/1.6GHz
SE +/- 1.12, N = 3
172.45
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.86, N = 3
170.64
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.79, N = 3
185.22
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 0.84, N = 3
160.78
AMD X4 845 - 3.815-4.033/1.417GHz
SE +/- 0.72, N = 3
162.02
AMD X4 845 - 3.815-4.033/1.308GHz
SE +/- 0.90, N = 3
165.08
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.90, N = 3
167.57
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.67, N = 3
165.55
40
80
120
160
200

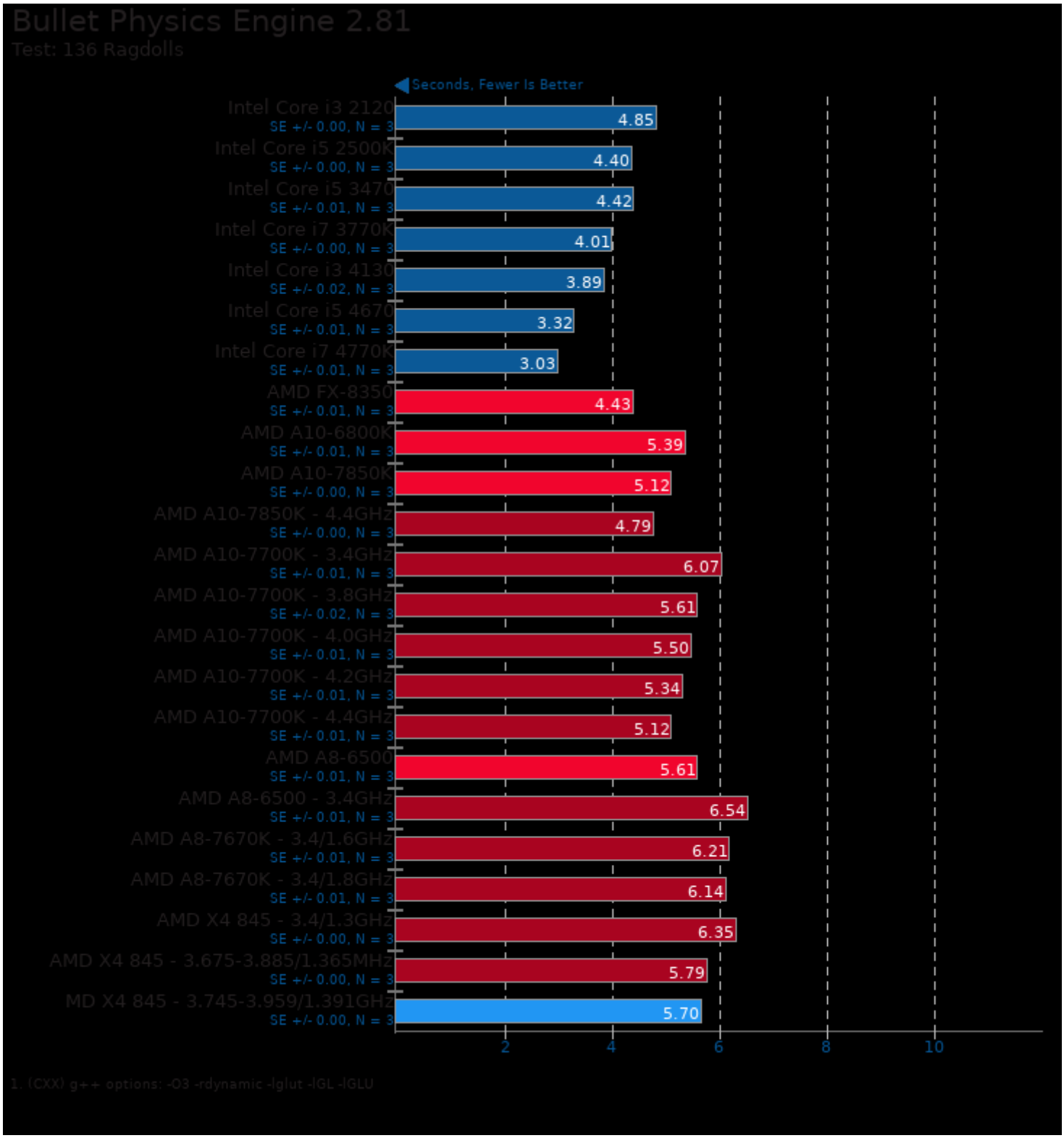

Open Porous Media 2013-11-26
OPM Benchmark: Upscale-Relperm
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.10, N = 3
74.33
Intel Core i5 2500K
SE +/- 0.04, N = 3
59.45
Intel Core i5 3470
SE +/- 0.28, N = 3
57.55
Intel Core i7 3770K
SE +/- 0.21, N = 3
56.28
Intel Core i3 4130
SE +/- 0.32, N = 3
108.35
Intel Core i5 4670
SE +/- 0.65, N = 3
102.54
Intel Core i7 4770K
SE +/- 0.07, N = 3
99.38
AMD FX-8350
SE +/- 0.89, N = 3
115.56
AMD A10-6800K
SE +/- 0.11, N = 3
124.30
AMD A10-7850K
SE +/- 0.31, N = 3
123.56
AMD A10-7850K - 4.4GHz
SE +/- 0.04, N = 3
123.25
AMD A10-7700K - 3.4GHz
SE +/- 0.17, N = 3
94.23
AMD A10-7700K - 3.8GHz
SE +/- 0.29, N = 3
89.73
AMD A10-7700K - 4.0GHz
SE +/- 0.23, N = 3
91.75
AMD A10-7700K - 4.2GHz
SE +/- 0.04, N = 3
88.47
AMD A10-7700K - 4.4GHz
SE +/- 0.07, N = 3
87.61
AMD A8-6500
SE +/- 0.12, N = 3
91.49
AMD A8-6500 - 3.4GHz
SE +/- 0.39, N = 3
95.56
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.81, N = 3
181.65
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.83, N = 3
177.08
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.73, N = 3
157.77
AMD X4 845 - 3.85-4.07/1.43GHz
SE +/- 0.83, N = 3
152.43
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.37, N = 3
159.07
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.34, N = 3
156.72
40
80
120
160
200
1. (F9X) gfortran options: -rdynamic

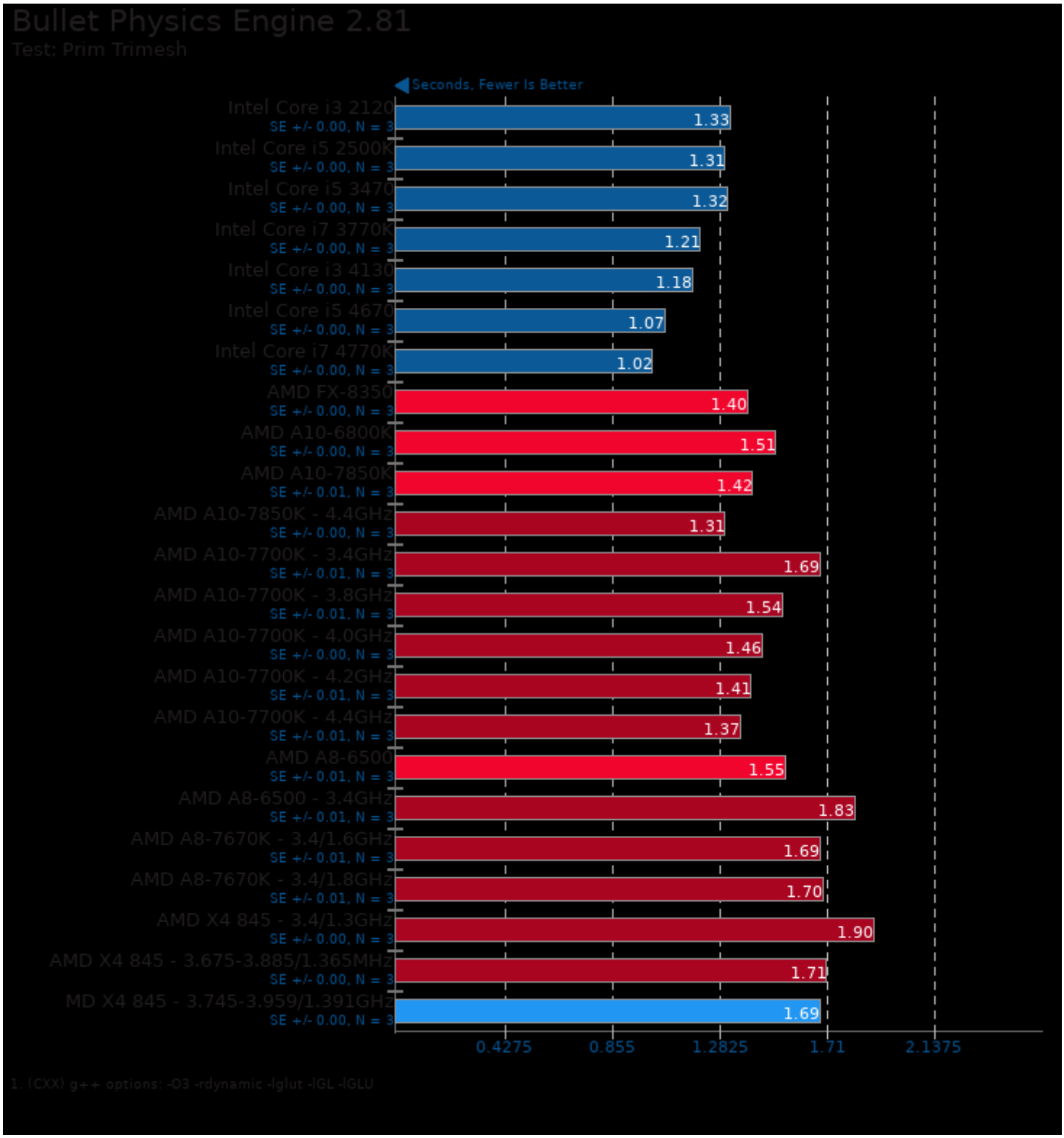

Primesieve 4.2
1e12 Prime Number Generation
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.15, N = 3
192.68
Intel Core i5 2500K
SE +/- 0.01, N = 3
108.53
Intel Core i5 3470
SE +/- 0.01, N = 3
98.54
Intel Core i7 3770K
SE +/- 0.12, N = 3
81.45
Intel Core i3 4130
SE +/- 0.14, N = 3
171.05
Intel Core i5 4670
SE +/- 0.04, N = 3
87.91
Intel Core i7 4770K
SE +/- 0.07, N = 3
78.27
AMD FX-8350
SE +/- 0.04, N = 3
166.35
AMD A10-6800K
SE +/- 0.05, N = 3
327.63
AMD A10-7850K
SE +/- 1.01, N = 3
167.60
AMD A10-7850K - 4.4GHz
SE +/- 0.93, N = 3
152.78
AMD A10-7700K - 3.4GHz
SE +/- 0.08, N = 3
193.93
AMD A10-7700K - 3.8GHz
SE +/- 0.07, N = 3
173.77
AMD A10-7700K - 4.0GHz
SE +/- 0.08, N = 3
164.49
AMD A10-7700K - 4.2GHz
SE +/- 1.56, N = 3
158.11
AMD A10-7700K - 4.4GHz
SE +/- 0.23, N = 3
161.84
AMD A8-6500
SE +/- 0.12, N = 3
371.87
AMD A8-6500 - 3.4GHz
SE +/- 0.10, N = 3
396.19
90
180
270
360
450
1. (CXX) g++ options: -O2 -fopenmp

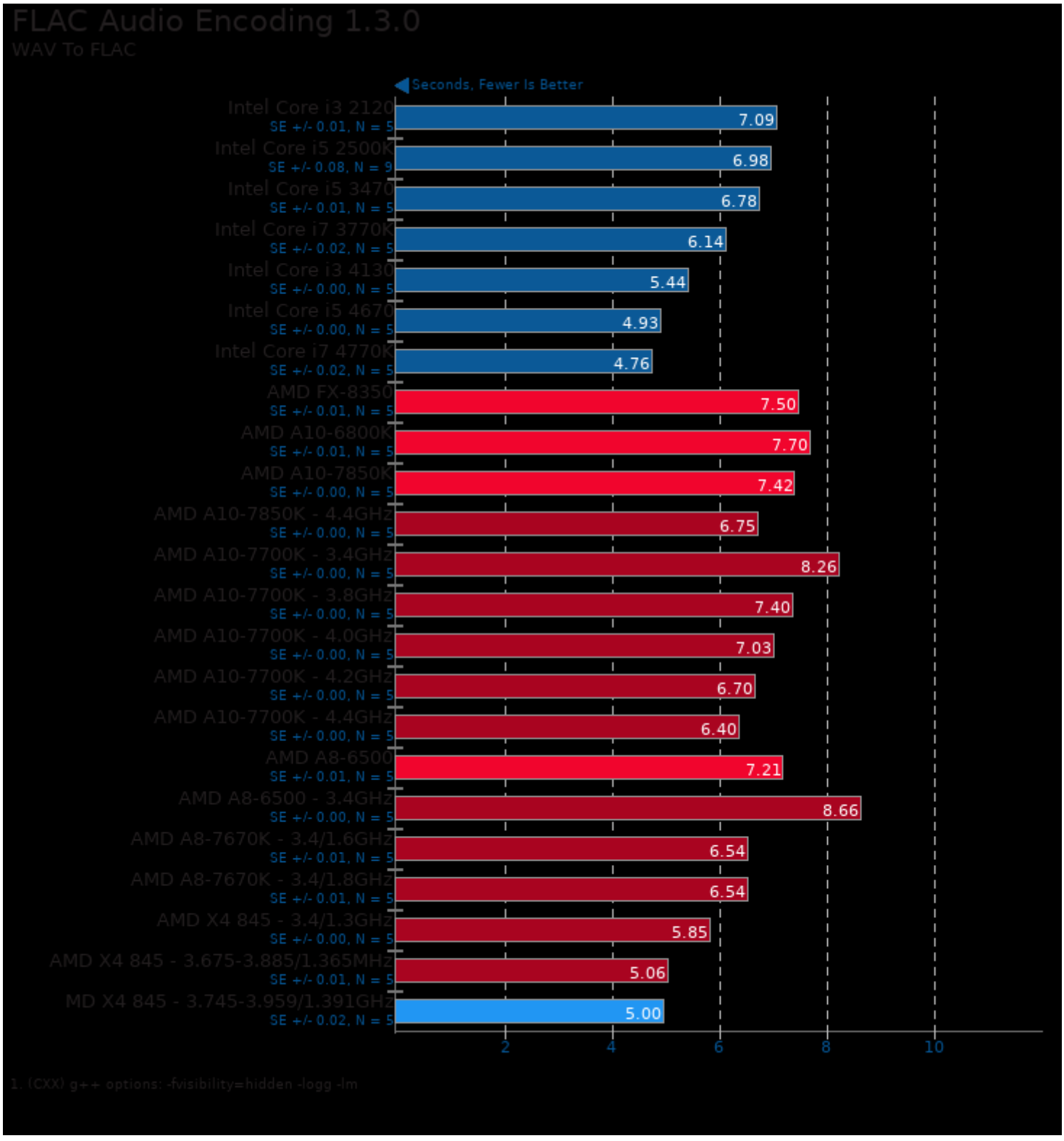

Smallpt 1.0
Global Illumination Renderer; 100 Samples
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.33, N = 3
65
Intel Core i5 2500K
SE +/- 0.33, N = 3
41
Intel Core i5 3470
SE +/- 0.00, N = 3
40
Intel Core i7 3770K
SE +/- 0.33, N = 3
28
Intel Core i3 4130
SE +/- 0.33, N = 3
52
Intel Core i5 4670
SE +/- 0.00, N = 3
34
Intel Core i7 4770K
SE +/- 0.33, N = 3
25
AMD FX-8350
SE +/- 0.33, N = 3
32
AMD A10-6800K
SE +/- 0.33, N = 3
63
AMD A10-7850K
SE +/- 0.33, N = 3
62
AMD A10-7850K - 4.4GHz
SE +/- 0.33, N = 3
57
AMD A10-7700K - 3.4GHz
SE +/- 0.33, N = 3
211
AMD A10-7700K - 3.8GHz
SE +/- 0.33, N = 3
189
AMD A10-7700K - 4.0GHz
SE +/- 0.00, N = 3
180
AMD A10-7700K - 4.2GHz
SE +/- 0.33, N = 3
171
AMD A10-7700K - 4.4GHz
SE +/- 0.33, N = 3
170
AMD A8-6500
SE +/- 2.33, N = 3
218
AMD A8-6500 - 3.4GHz
SE +/- 0.00, N = 3
220
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.58, N = 3
197
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.33, N = 3
196
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.00, N = 3
179
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.33, N = 3
154
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.33, N = 3
152
50
100
150
200
250
1. (CXX) g++ options: -fopenmp

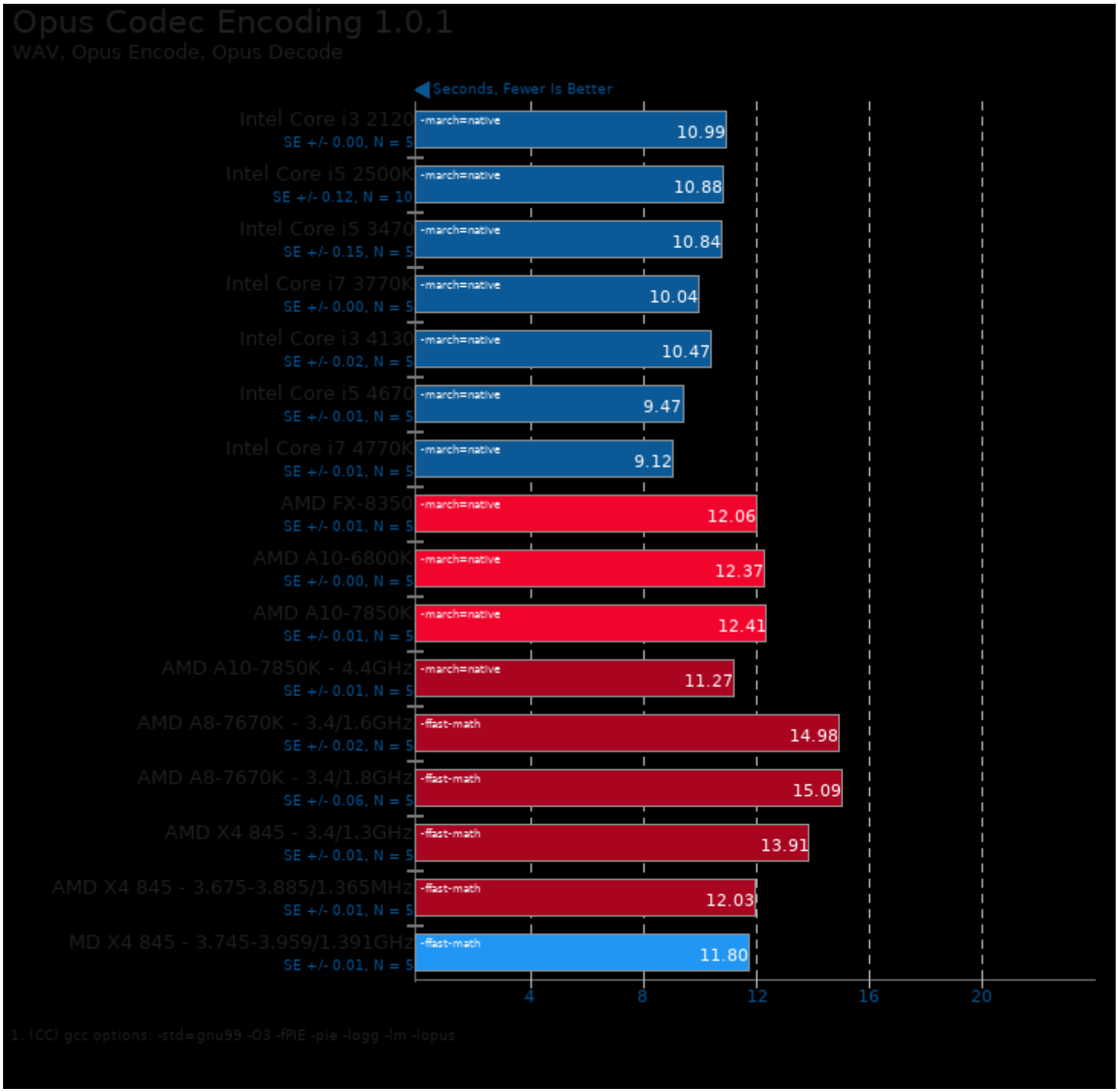

Bullet Physics Engine 2.81
Test: Raytests
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.00, N = 3
4.17
Intel Core i5 2500K
SE +/- 0.00, N = 3
4.14
Intel Core i5 3470
SE +/- 0.00, N = 3
3.97
Intel Core i7 3770K
SE +/- 0.00, N = 3
3.63
Intel Core i3 4130
SE +/- 0.01, N = 3
3.36
Intel Core i5 4670
SE +/- 0.02, N = 3
3.06
Intel Core i7 4770K
SE +/- 0.00, N = 3
2.90
AMD FX-8350
SE +/- 0.01, N = 3
4.58
AMD A10-6800K
SE +/- 0.00, N = 3
4.64
AMD A10-7850K
SE +/- 0.01, N = 3
4.36
AMD A10-7850K - 4.4GHz
SE +/- 0.01, N = 3
3.97
AMD A10-7700K - 3.4GHz
SE +/- 0.01, N = 3
5.48
AMD A10-7700K - 3.8GHz
SE +/- 0.04, N = 3
4.98
AMD A10-7700K - 4.0GHz
SE +/- 0.01, N = 3
4.70
AMD A10-7700K - 4.2GHz
SE +/- 0.01, N = 3
4.51
AMD A10-7700K - 4.4GHz
SE +/- 0.00, N = 3
4.30
AMD A8-6500
SE +/- 0.01, N = 3
4.96
AMD A8-6500 - 3.4GHz
SE +/- 0.01, N = 3
5.89
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.02, N = 3
5.25
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.01, N = 3
5.28
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.00, N = 3
5.13
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.00, N = 3
4.51
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.00, N = 3
4.44
1.3253
2.6506
3.9759
5.3012
6.6265
1. (CXX) g++ options: -O3 -rdynamic -lglut -lGL -lGLU

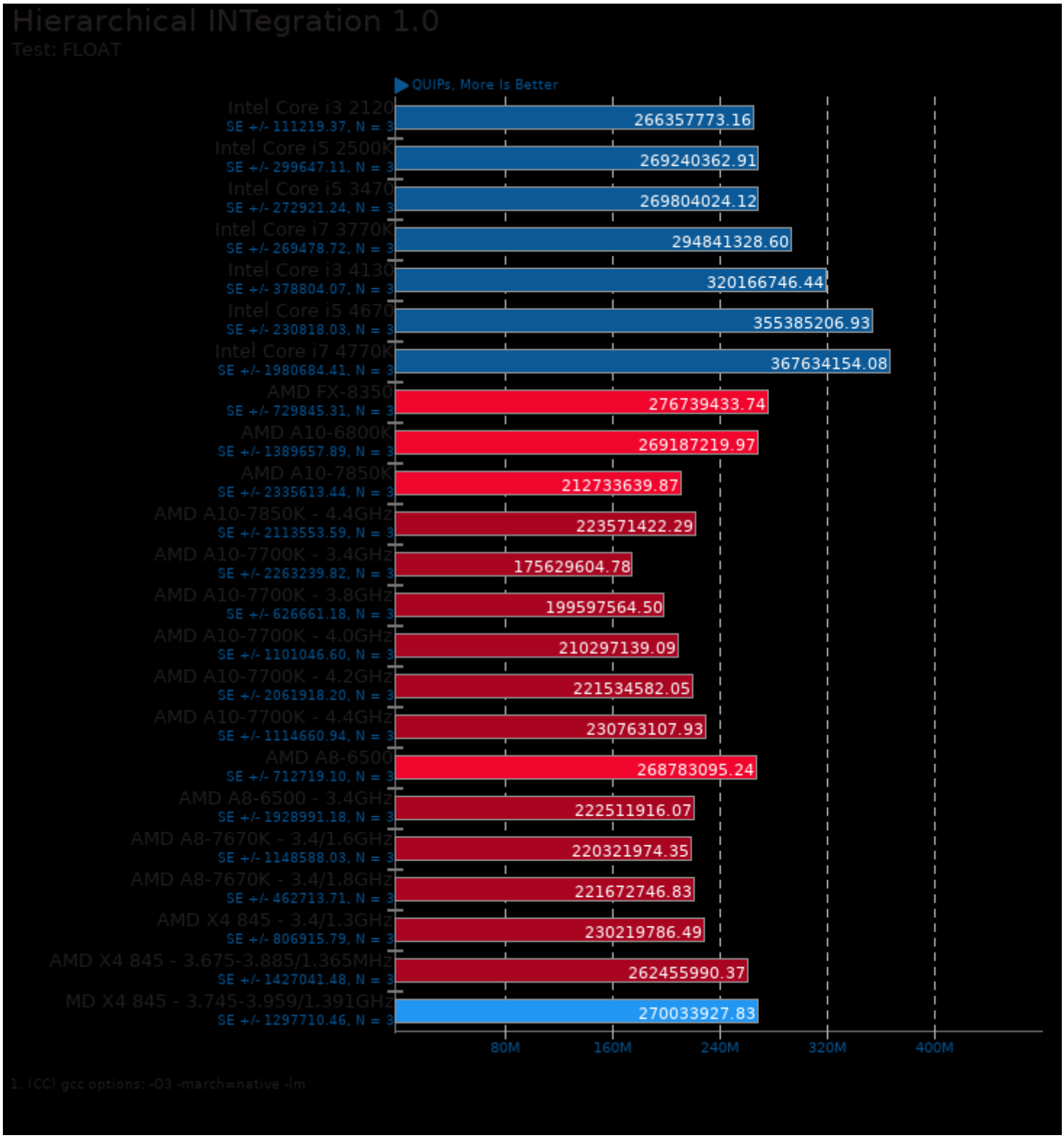

Bullet Physics Engine 2.81
Test: 1000 Convex
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.01, N = 3
7.48
Intel Core i5 2500K
SE +/- 0.02, N = 3
7.12
Intel Core i5 3470
SE +/- 0.01, N = 3
7.02
Intel Core i7 3770K
SE +/- 0.00, N = 3
6.40
Intel Core i3 4130
SE +/- 0.02, N = 3
5.89
Intel Core i5 4670
SE +/- 0.02, N = 3
5.27
Intel Core i7 4770K
SE +/- 0.01, N = 3
4.85
AMD FX-8350
SE +/- 0.02, N = 3
6.46
AMD A10-6800K
SE +/- 0.00, N = 3
7.30
AMD A10-7850K
SE +/- 0.01, N = 3
6.91
AMD A10-7850K - 4.4GHz
SE +/- 0.01, N = 3
6.39
AMD A10-7700K - 3.4GHz
SE +/- 0.01, N = 3
9.36
AMD A10-7700K - 3.8GHz
SE +/- 0.01, N = 3
8.47
AMD A10-7700K - 4.0GHz
SE +/- 0.02, N = 3
8.28
AMD A10-7700K - 4.2GHz
SE +/- 0.01, N = 3
7.91
AMD A10-7700K - 4.4GHz
SE +/- 0.01, N = 3
7.58
AMD A8-6500
SE +/- 0.04, N = 3
8.41
AMD A8-6500 - 3.4GHz
SE +/- 0.01, N = 3
9.82
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.01, N = 3
9.27
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.01, N = 3
9.23
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.02, N = 3
9.12
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.03, N = 3
8.13
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.01, N = 3
8.00
3
6
9
12
15
1. (CXX) g++ options: -O3 -rdynamic -lglut -lGL -lGLU

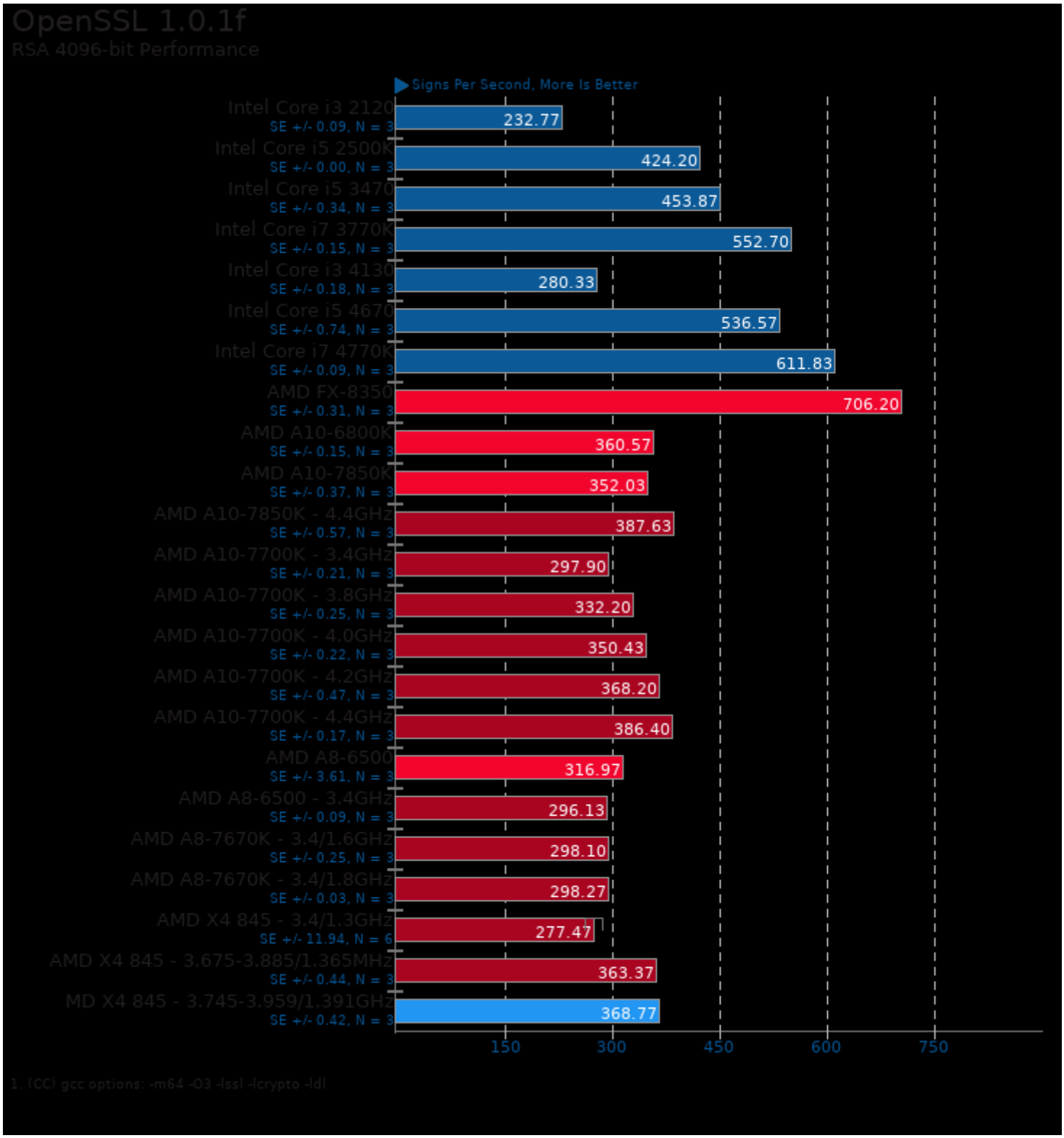

Bullet Physics Engine 2.81
Test: 136 Ragdolls
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.00, N = 3
4.85
Intel Core i5 2500K
SE +/- 0.00, N = 3
4.40
Intel Core i5 3470
SE +/- 0.01, N = 3
4.42
Intel Core i7 3770K
SE +/- 0.00, N = 3
4.01
Intel Core i3 4130
SE +/- 0.02, N = 3
3.89
Intel Core i5 4670
SE +/- 0.01, N = 3
3.32
Intel Core i7 4770K
SE +/- 0.01, N = 3
3.03
AMD FX-8350
SE +/- 0.01, N = 3
4.43
AMD A10-6800K
SE +/- 0.01, N = 3
5.39
AMD A10-7850K
SE +/- 0.00, N = 3
5.12
AMD A10-7850K - 4.4GHz
SE +/- 0.00, N = 3
4.79
AMD A10-7700K - 3.4GHz
SE +/- 0.01, N = 3
6.07
AMD A10-7700K - 3.8GHz
SE +/- 0.02, N = 3
5.61
AMD A10-7700K - 4.0GHz
SE +/- 0.01, N = 3
5.50
AMD A10-7700K - 4.2GHz
SE +/- 0.01, N = 3
5.34
AMD A10-7700K - 4.4GHz
SE +/- 0.01, N = 3
5.12
AMD A8-6500
SE +/- 0.01, N = 3
5.61
AMD A8-6500 - 3.4GHz
SE +/- 0.01, N = 3
6.54
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.01, N = 3
6.21
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.01, N = 3
6.14
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.00, N = 3
6.35
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.00, N = 3
5.79
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.00, N = 3
5.70
2
4
6
8
10
1. (CXX) g++ options: -O3 -rdynamic -lglut -lGL -lGLU


Bullet Physics Engine 2.81
Test: Prim Trimesh
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.00, N = 3
1.33
Intel Core i5 2500K
SE +/- 0.00, N = 3
1.31
Intel Core i5 3470
SE +/- 0.00, N = 3
1.32
Intel Core i7 3770K
SE +/- 0.00, N = 3
1.21
Intel Core i3 4130
SE +/- 0.00, N = 3
1.18
Intel Core i5 4670
SE +/- 0.00, N = 3
1.07
Intel Core i7 4770K
SE +/- 0.00, N = 3
1.02
AMD FX-8350
SE +/- 0.00, N = 3
1.40
AMD A10-6800K
SE +/- 0.00, N = 3
1.51
AMD A10-7850K
SE +/- 0.01, N = 3
1.42
AMD A10-7850K - 4.4GHz
SE +/- 0.00, N = 3
1.31
AMD A10-7700K - 3.4GHz
SE +/- 0.01, N = 3
1.69
AMD A10-7700K - 3.8GHz
SE +/- 0.01, N = 3
1.54
AMD A10-7700K - 4.0GHz
SE +/- 0.00, N = 3
1.46
AMD A10-7700K - 4.2GHz
SE +/- 0.01, N = 3
1.41
AMD A10-7700K - 4.4GHz
SE +/- 0.01, N = 3
1.37
AMD A8-6500
SE +/- 0.01, N = 3
1.55
AMD A8-6500 - 3.4GHz
SE +/- 0.01, N = 3
1.83
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.01, N = 3
1.69
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.01, N = 3
1.70
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.00, N = 3
1.90
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.00, N = 3
1.71
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.00, N = 3
1.69
0.4275
0.855
1.2825
1.71
2.1375
1. (CXX) g++ options: -O3 -rdynamic -lglut -lGL -lGLU

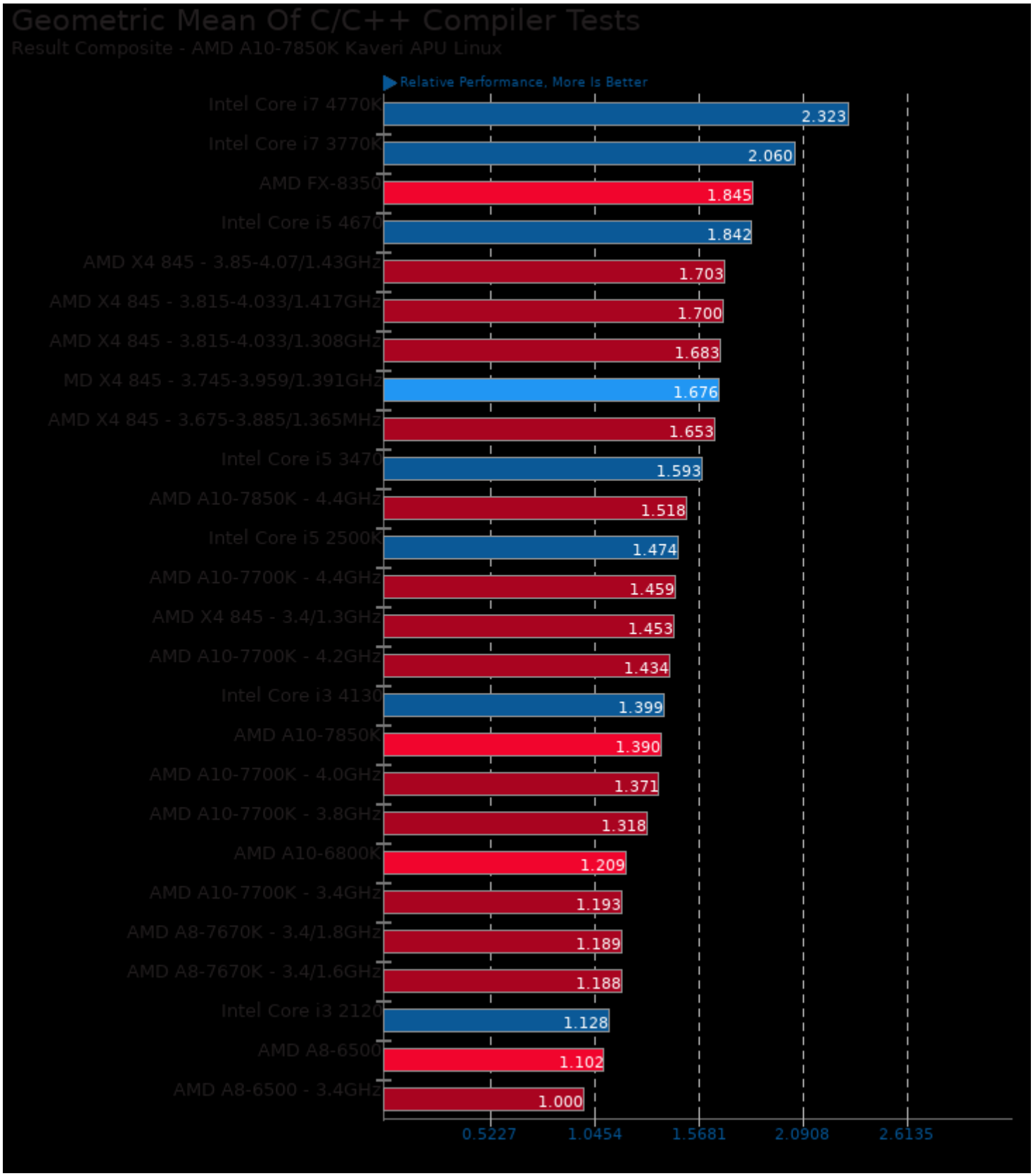

FLAC Audio Encoding 1.3.0
WAV To FLAC
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.01, N = 5
7.09
Intel Core i5 2500K
SE +/- 0.08, N = 9
6.98
Intel Core i5 3470
SE +/- 0.01, N = 5
6.78
Intel Core i7 3770K
SE +/- 0.02, N = 5
6.14
Intel Core i3 4130
SE +/- 0.00, N = 5
5.44
Intel Core i5 4670
SE +/- 0.00, N = 5
4.93
Intel Core i7 4770K
SE +/- 0.02, N = 5
4.76
AMD FX-8350
SE +/- 0.01, N = 5
7.50
AMD A10-6800K
SE +/- 0.01, N = 5
7.70
AMD A10-7850K
SE +/- 0.00, N = 5
7.42
AMD A10-7850K - 4.4GHz
SE +/- 0.00, N = 5
6.75
AMD A10-7700K - 3.4GHz
SE +/- 0.00, N = 5
8.26
AMD A10-7700K - 3.8GHz
SE +/- 0.00, N = 5
7.40
AMD A10-7700K - 4.0GHz
SE +/- 0.00, N = 5
7.03
AMD A10-7700K - 4.2GHz
SE +/- 0.00, N = 5
6.70
AMD A10-7700K - 4.4GHz
SE +/- 0.00, N = 5
6.40
AMD A8-6500
SE +/- 0.01, N = 5
7.21
AMD A8-6500 - 3.4GHz
SE +/- 0.00, N = 5
8.66
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.01, N = 5
6.54
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.01, N = 5
6.54
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.00, N = 5
5.85
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.01, N = 5
5.06
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.02, N = 5
5.00
2
4
6
8
10
1. (CXX) g++ options: -fvisibility=hidden -logg -lm


Opus Codec Encoding 1.0.1
WAV, Opus Encode, Opus Decode
Seconds, Fewer Is Better
Intel Core i3 2120
SE +/- 0.00, N = 5
-march=native
10.99
Intel Core i5 2500K
SE +/- 0.12, N = 10
-march=native
10.88
Intel Core i5 3470
SE +/- 0.15, N = 5
-march=native
10.84
Intel Core i7 3770K
SE +/- 0.00, N = 5
-march=native
10.04
Intel Core i3 4130
SE +/- 0.02, N = 5
-march=native
10.47
Intel Core i5 4670
SE +/- 0.01, N = 5
-march=native
9.47
Intel Core i7 4770K
SE +/- 0.01, N = 5
-march=native
9.12
AMD FX-8350
SE +/- 0.01, N = 5
-march=native
12.06
AMD A10-6800K
SE +/- 0.00, N = 5
-march=native
12.37
AMD A10-7850K
SE +/- 0.01, N = 5
-march=native
12.41
AMD A10-7850K - 4.4GHz
SE +/- 0.01, N = 5
-march=native
11.27
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.02, N = 5
-ffast-math
14.98
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.06, N = 5
-ffast-math
15.09
AMD X4 845 - 3.4/1.3GHz
SE +/- 0.01, N = 5
-ffast-math
13.91
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.01, N = 5
-ffast-math
12.03
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.01, N = 5
-ffast-math
11.80
4
8
12
16
20
1. (CC) gcc options: -std=gnu99 -O3 -fPIE -pie -logg -lm -lopus

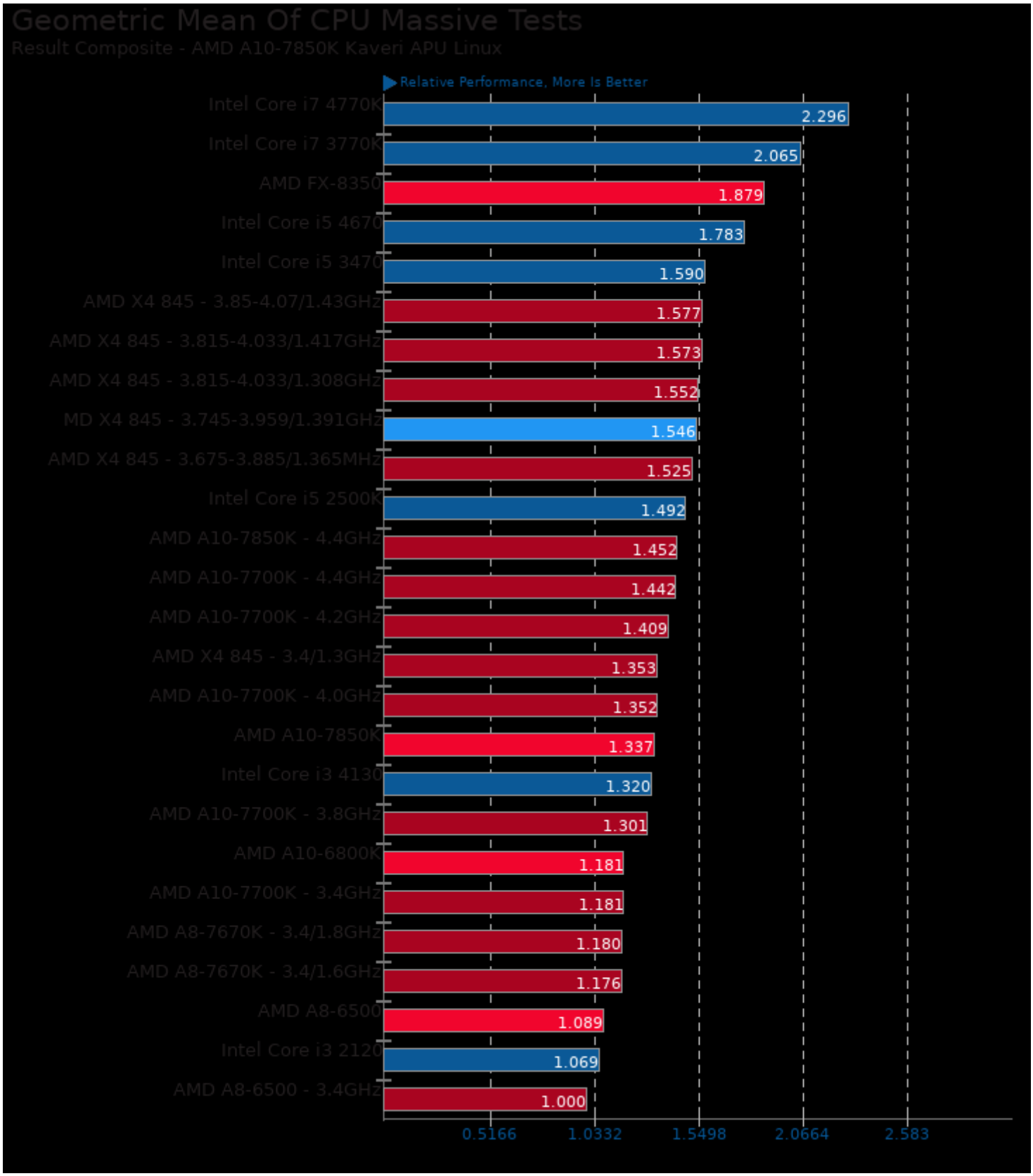

Hierarchical INTegration 1.0
Test: FLOAT
QUIPs, More Is Better
Intel Core i3 2120
SE +/- 111219.37, N = 3
266357773.16
Intel Core i5 2500K
SE +/- 299647.11, N = 3
269240362.91
Intel Core i5 3470
SE +/- 272921.24, N = 3
269804024.12
Intel Core i7 3770K
SE +/- 269478.72, N = 3
294841328.60
Intel Core i3 4130
SE +/- 378804.07, N = 3
320166746.44
Intel Core i5 4670
SE +/- 230818.03, N = 3
355385206.93
Intel Core i7 4770K
SE +/- 1980684.41, N = 3
367634154.08
AMD FX-8350
SE +/- 729845.31, N = 3
276739433.74
AMD A10-6800K
SE +/- 1389657.89, N = 3
269187219.97
AMD A10-7850K
SE +/- 2335613.44, N = 3
212733639.87
AMD A10-7850K - 4.4GHz
SE +/- 2113553.59, N = 3
223571422.29
AMD A10-7700K - 3.4GHz
SE +/- 2263239.82, N = 3
175629604.78
AMD A10-7700K - 3.8GHz
SE +/- 626661.18, N = 3
199597564.50
AMD A10-7700K - 4.0GHz
SE +/- 1101046.60, N = 3
210297139.09
AMD A10-7700K - 4.2GHz
SE +/- 2061918.20, N = 3
221534582.05
AMD A10-7700K - 4.4GHz
SE +/- 1114660.94, N = 3
230763107.93
AMD A8-6500
SE +/- 712719.10, N = 3
268783095.24
AMD A8-6500 - 3.4GHz
SE +/- 1928991.18, N = 3
222511916.07
AMD A8-7670K - 3.4/1.6GHz
SE +/- 1148588.03, N = 3
220321974.35
AMD A8-7670K - 3.4/1.8GHz
SE +/- 462713.71, N = 3
221672746.83
AMD X4 845 - 3.4/1.3GHz
SE +/- 806915.79, N = 3
230219786.49
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 1427041.48, N = 3
262455990.37
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 1297710.46, N = 3
270033927.83
80M
160M
240M
320M
400M
1. (CC) gcc options: -O3 -march=native -lm


OpenSSL 1.0.1f
RSA 4096-bit Performance
Signs Per Second, More Is Better
Intel Core i3 2120
SE +/- 0.09, N = 3
232.77
Intel Core i5 2500K
SE +/- 0.00, N = 3
424.20
Intel Core i5 3470
SE +/- 0.34, N = 3
453.87
Intel Core i7 3770K
SE +/- 0.15, N = 3
552.70
Intel Core i3 4130
SE +/- 0.18, N = 3
280.33
Intel Core i5 4670
SE +/- 0.74, N = 3
536.57
Intel Core i7 4770K
SE +/- 0.09, N = 3
611.83
AMD FX-8350
SE +/- 0.31, N = 3
706.20
AMD A10-6800K
SE +/- 0.15, N = 3
360.57
AMD A10-7850K
SE +/- 0.37, N = 3
352.03
AMD A10-7850K - 4.4GHz
SE +/- 0.57, N = 3
387.63
AMD A10-7700K - 3.4GHz
SE +/- 0.21, N = 3
297.90
AMD A10-7700K - 3.8GHz
SE +/- 0.25, N = 3
332.20
AMD A10-7700K - 4.0GHz
SE +/- 0.22, N = 3
350.43
AMD A10-7700K - 4.2GHz
SE +/- 0.47, N = 3
368.20
AMD A10-7700K - 4.4GHz
SE +/- 0.17, N = 3
386.40
AMD A8-6500
SE +/- 3.61, N = 3
316.97
AMD A8-6500 - 3.4GHz
SE +/- 0.09, N = 3
296.13
AMD A8-7670K - 3.4/1.6GHz
SE +/- 0.25, N = 3
298.10
AMD A8-7670K - 3.4/1.8GHz
SE +/- 0.03, N = 3
298.27
AMD X4 845 - 3.4/1.3GHz
SE +/- 11.94, N = 6
277.47
AMD X4 845 - 3.675-3.885/1.365MHz
SE +/- 0.44, N = 3
363.37
MD X4 845 - 3.745-3.959/1.391GHz
SE +/- 0.42, N = 3
368.77
150
300
450
600
750
1. (CC) gcc options: -m64 -O3 -lssl -lcrypto -ldl

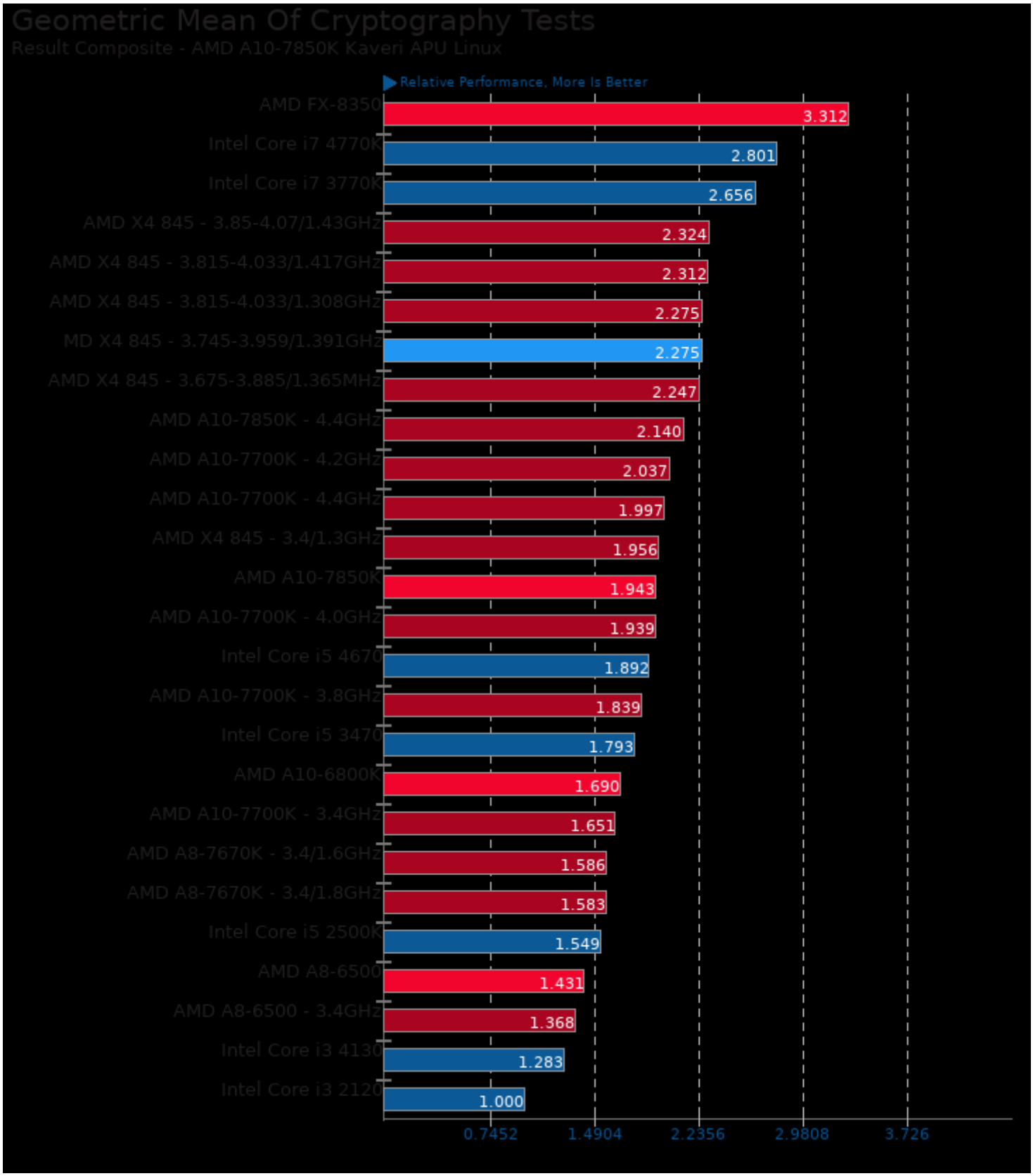
These geometric means are based upon test groupings / test suites for this result file.



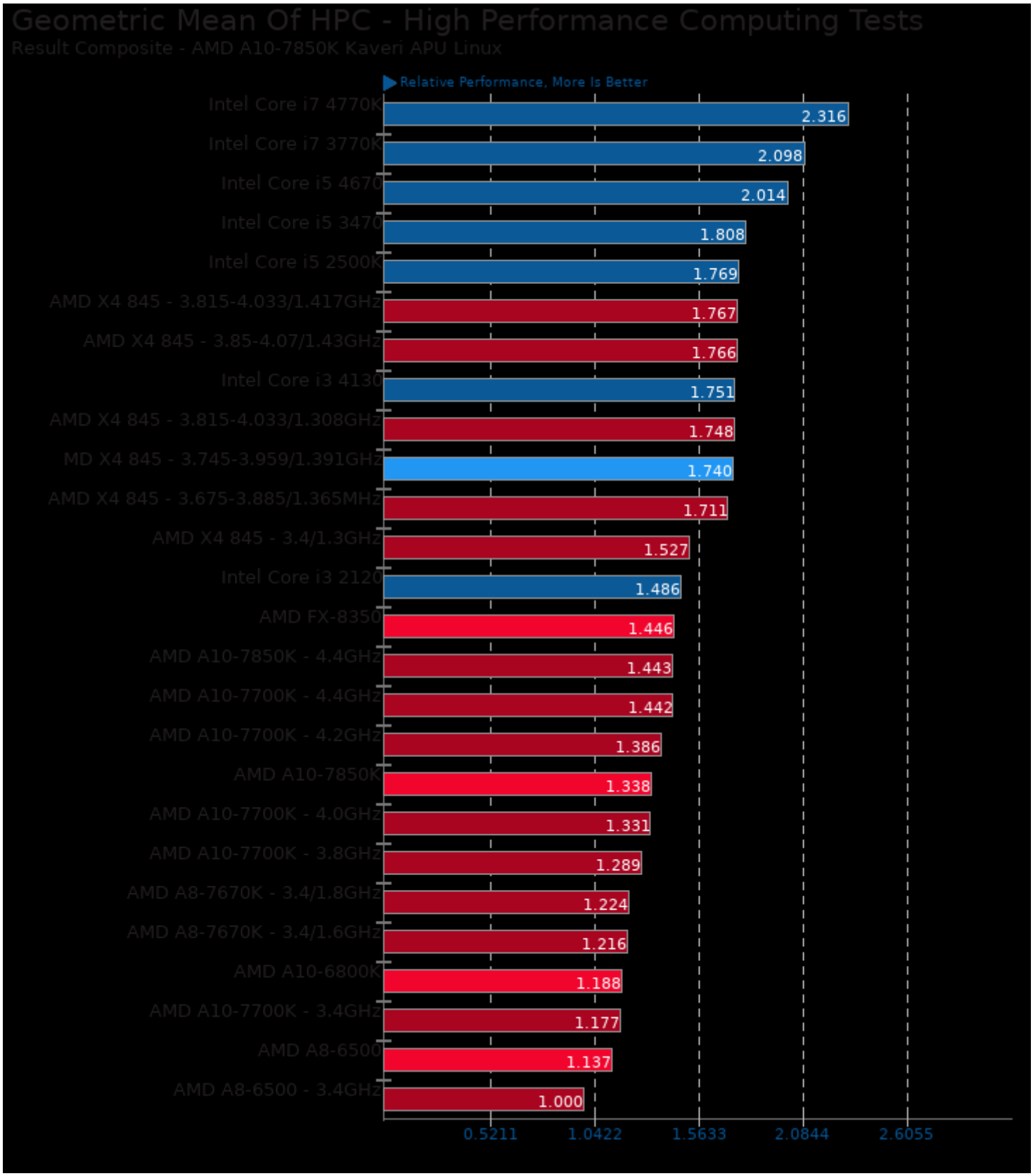
Geometric mean based upon tests: pts/himeno, pts/bullet, pts/encode-flac, pts/john-the-ripper, pts/x264, pts/openssl, pts/lammps and pts/build-apache



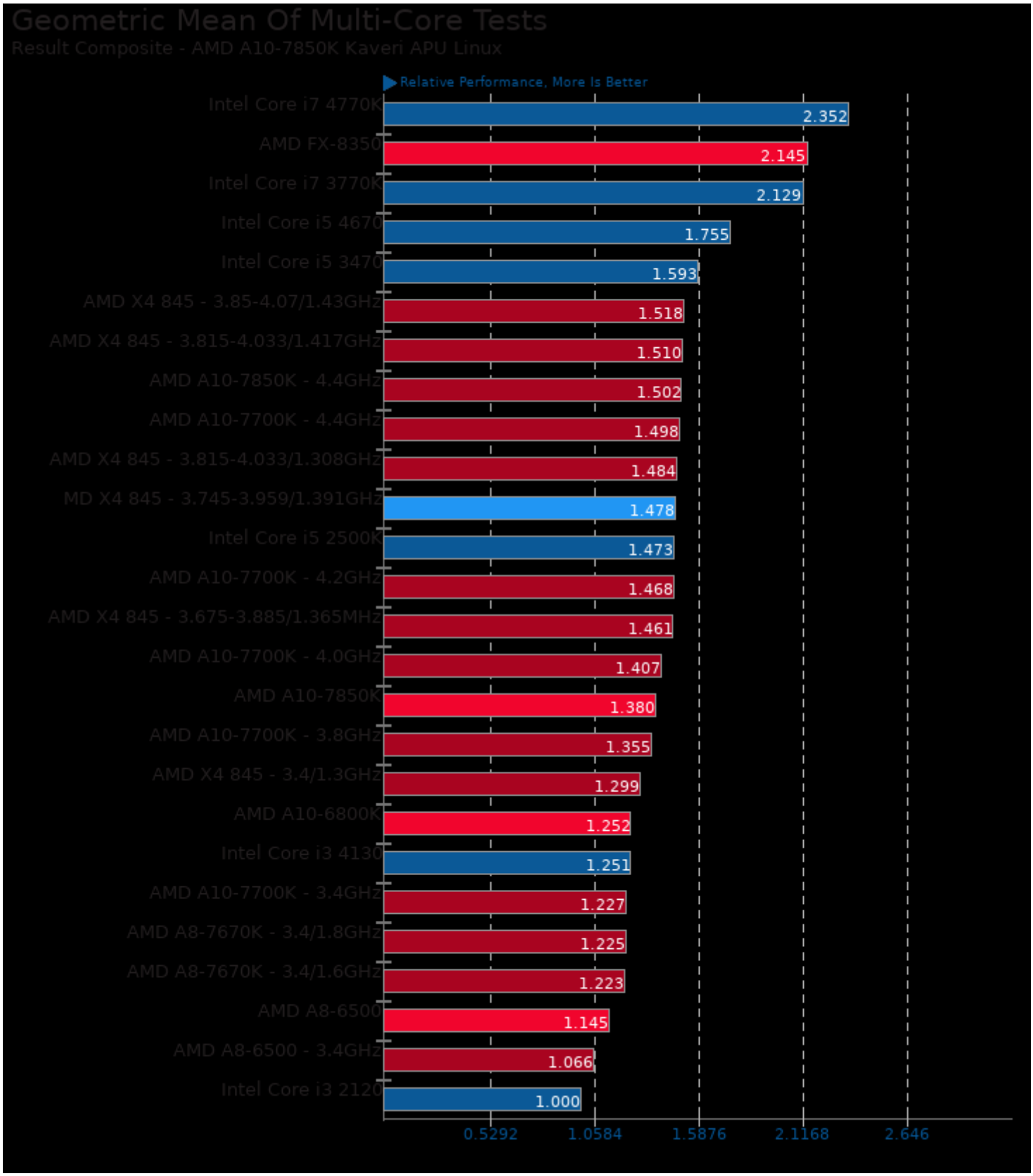
Geometric mean based upon tests: pts/build-apache, pts/build-linux-kernel, pts/x264, pts/dolfyn, pts/encode-flac, pts/himeno, pts/hint, pts/john-the-ripper, pts/openssl, pts/lammps, pts/primesieve and pts/rodinia



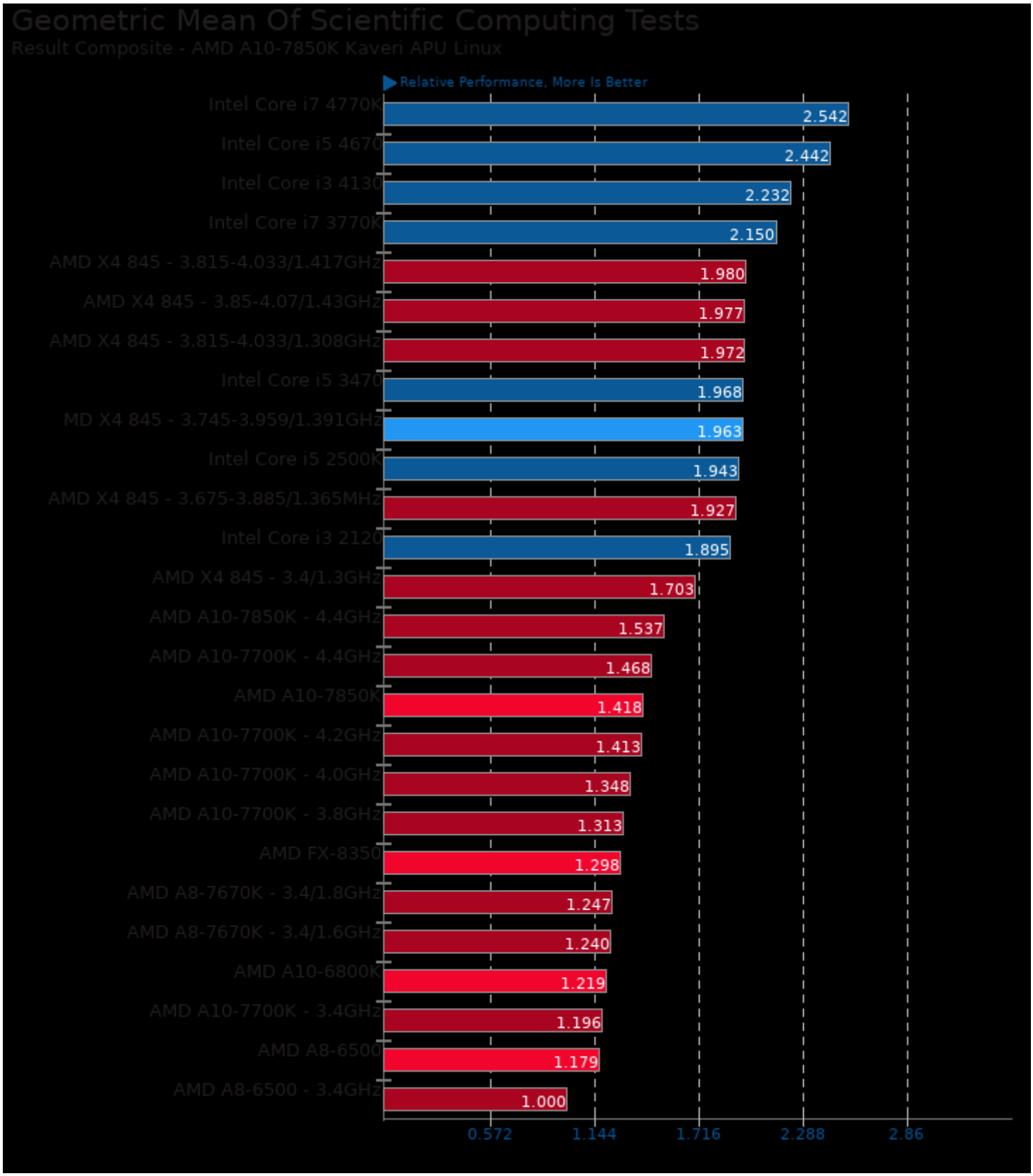
Geometric mean based upon tests: pts/openssl and pts/john-the-ripper



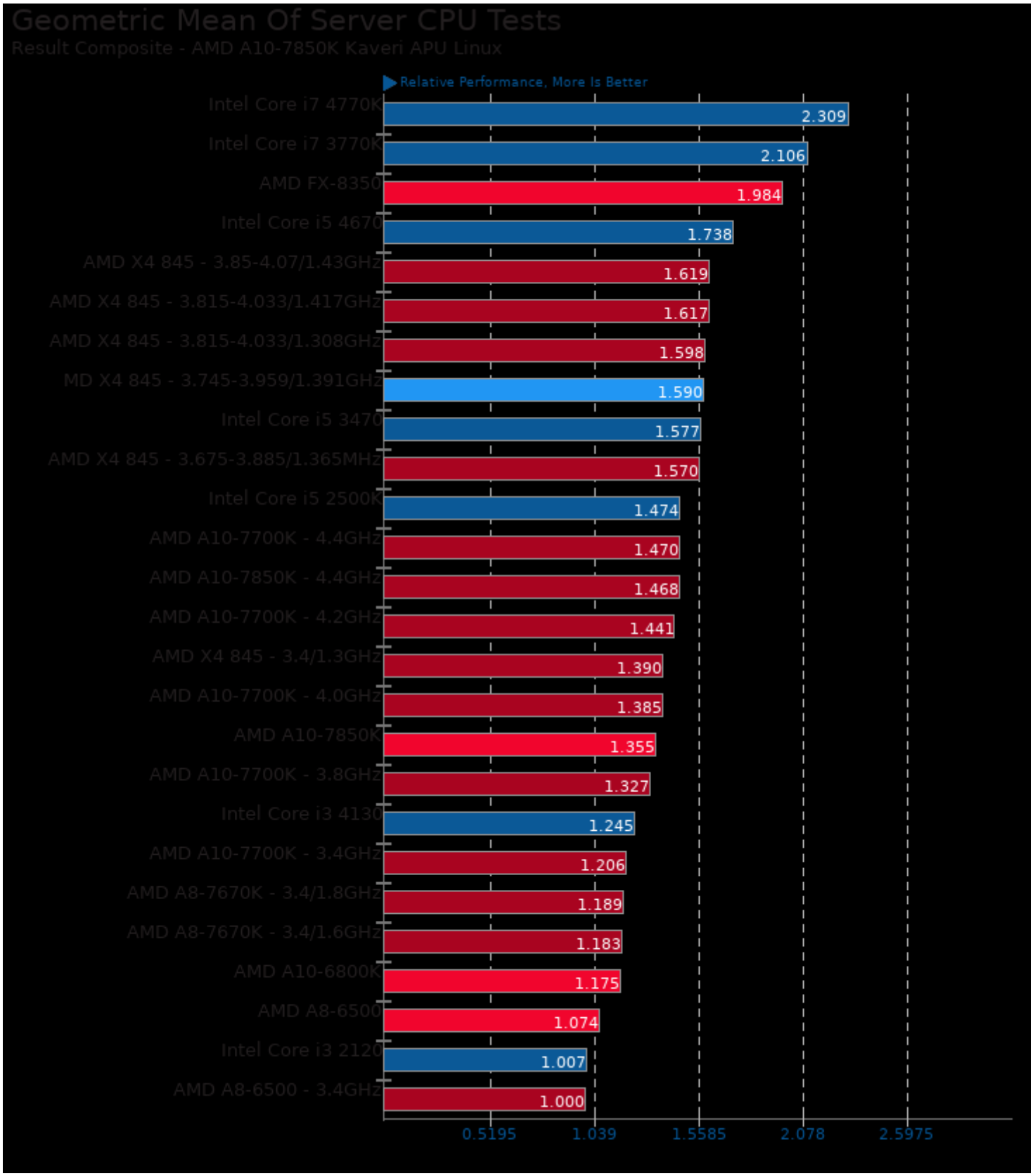
Geometric mean based upon tests: pts/rodinia, pts/ffte, pts/dolfyn, pts/lammps and pts/himeno



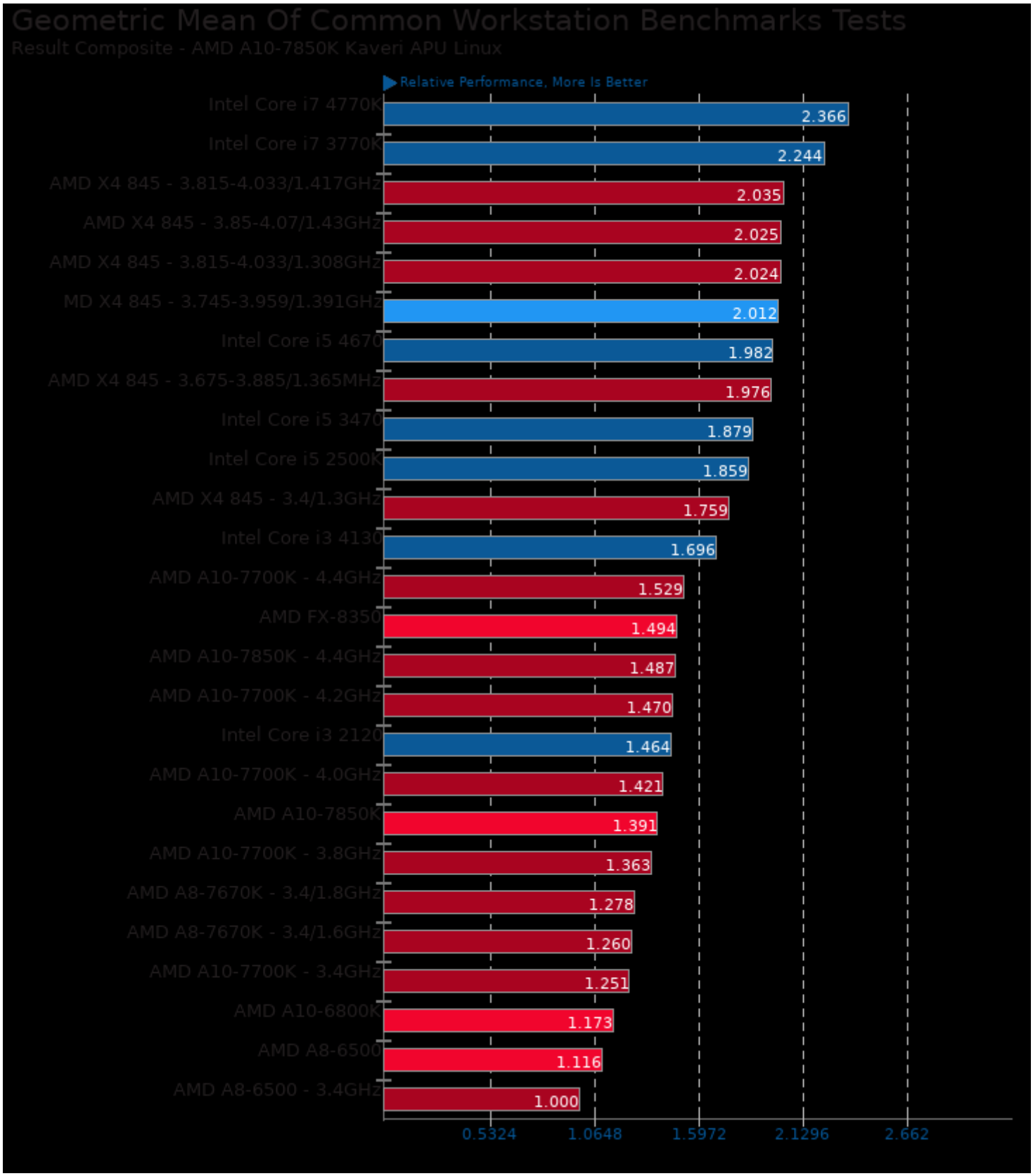
Geometric mean based upon tests: pts/x264, pts/primesieve, pts/rodinia, pts/john-the-ripper, pts/smallpt, pts/lammps, pts/build-apache and pts/build-linux-kernel



Geometric mean based upon tests: pts/ffte, pts/dolfyn, pts/lammps and pts/himeno



Geometric mean based upon tests: pts/rodinia, pts/john-the-ripper, pts/x264, pts/himeno, pts/build-linux-kernel and pts/openssl



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:29.