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Various ARM Linux Benchmarks - Spetember 2018

Quick test with ODROID-N1 on Ubuntu Bionic with CONFIG_HZ=250

Automated Executive Summary

Socionext Developerbox had the most wins, coming in first place for 33% of the tests.

Based on the geometric mean of all complete results, the fastest (ODROID-N1) was 5.247x the speed of the slowest (Raspberry Pi 2 B).

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

FLAC Audio Encoding (Performance / Cost - WAV To FLAC) at 67.581x
LAME MP3 Encoding (Performance / Cost - WAV To MP3) at 58.92x
Perl Benchmarks (Performance / Cost - Test: Pod2html) at 47.771x
PyBench (Performance / Cost - Total For Average Test Times) at 44.21x
AOBench (Performance / Cost - Size: 2048 x 2048 - Total Time) at 43.975x
Scikit-Learn (Performance / Cost -) at 40.034x
Hierarchical INTegration (Performance / Cost - Test: FLOAT) at 39.599x
Git (Performance / Cost - Time To Complete Common Git Commands) at 37.559x
Tinymembench (Performance / Cost - Standard Memcpy) at 36.093x
PHPBench (Performance / Cost - PHP Benchmark Suite) at 36.003x.

Test Systems:

ALL-H3-CC H2+

Processor: ARMv7 rev 5 @ 0.91GHz (4 Cores), Motherboard: Allwinner sun8i Family Libre Board ALL-H3-CC H3, Memory: 493MB, Disk: 32GB SC32G, Monitor: VE228

OS: Ubuntu 18.04, Kernel: 4.14.65-sunxi (armv7l), Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=arm-linux-gnueabihf --disable-libitm --disable-libquadmath --disable-libquadmath-support --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-multilib --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch=armv7-a --with-as=/usr/bin/arm-linux-gnueabihf-as --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfpv3-d16 --with-gcc-major-version-only --with-ld=/usr/bin/arm-linux-gnueabihf-ld --with-mode=thumb --with-target-system-zlib -v
Processor Notes: Scaling Governor: cpufreq-dt ondemand
Python Notes: Python 2.7.15rc1 + Python 3.6.5

ALL-H3-CC H3

Processor: ARMv7 rev 5 @ 0.91GHz (4 Cores), Motherboard: Allwinner sun8i Family Libre Board ALL-H3-CC H3, Memory: 1024MB, Disk: 32GB GB1QT

OS: Ubuntu 18.04, Kernel: 4.14.65-sunxi (armv7l), Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=arm-linux-gnueabihf --disable-libitm --disable-libquadmath --disable-libquadmath-support --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-multilib --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch=armv7-a --with-as=/usr/bin/arm-linux-gnueabihf-as --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfpv3-d16 --with-gcc-major-version-only --with-ld=/usr/bin/arm-linux-gnueabihf-ld --with-mode=thumb --with-target-system-zlib -v
Processor Notes: Scaling Governor: cpufreq-dt ondemand
Python Notes: Python 2.7.15rc1 + Python 3.6.5

ALL-H3-CC H5

Processor: ARMVv8 Cortex-A53 (4 Cores), Motherboard: Libre Board ALL-H3-CC H5, Memory: 2048MB, Disk: 32GB GB1QT

OS: Raspbian 9.4, Kernel: 4.18.0-rc3-gfc36def997cf-dirty (aarch64), Display Server: X Server 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv6 --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfp --with-target-system-zlib -v
Python Notes: Python 2.7.13 + Python 3.5.3

AML-S905X-CC Le Potato

Processor: Unknown @ 1.51GHz (4 Cores), Motherboard: Libre Board AML-S905X-CC, Memory: 2048MB, Disk: 32GB SC32G, Monitor: Acer P243W

OS: Raspbian 9.4, Kernel: 4.14.53-00653-gc01abe8ba6bc (aarch64), Desktop: LXDE, Display Server: X Server 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1200

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv6 --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfp --with-target-system-zlib -v
Processor Notes: Scaling Governor: arm-big-little ondemand
Python Notes: Python 2.7.13 + Python 3.5.3

Banana Pi M3

Processor: ARMv7 rev 5 @ 1.80GHz (8 Cores), Motherboard: sun8i, Memory: 2048MB, Disk: 32GB SC32G + 8GB M8G1GC, Graphics: PowerVR

OS: Raspbian 8.0, Kernel: 3.4.39-BPI-M3-Kernel (armv7l), Desktop: LXDE, Display Server: X Server 1.18.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1280x720

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --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=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv6 --with-float=hard --with-fpu=vfp -v
Processor Notes: Scaling Governor: sunxi-iks ondemand
Python Notes: Python 2.7.9 + Python 3.4.2

Firefly ROC-RK3328-CC

Processor: Rockchip @ 1.39GHz (4 Cores), Motherboard: Firefly ROC-RK3328-CC, Memory: 2048MB, Disk: 32GB GB1QT, Monitor: Acer P243W

OS: Ubuntu 18.04, Kernel: 4.4.114 (aarch64), Desktop: LXDE, Display Server: X Server 1.18.4, Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1920x1080p60

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-as=/usr/bin/aarch64-linux-gnu-as --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-ld=/usr/bin/aarch64-linux-gnu-ld -v
Processor Notes: Scaling Governor: cpufreq-dt performance
Python Notes: Python 2.7.15rc1 + Python 3.6.5

Jetson TX1

Processor: ARMv8 rev 1 @ 1.73GHz (4 Cores), Motherboard: jetson_tx1, Memory: 4096MB, Disk: 16GB 016G32, Graphics: NVIDIA TEGRA

OS: Ubuntu 16.04, Kernel: 4.4.38-tegra (aarch64), Desktop: Unity 7.4.5, Display Server: X Server 1.18.4, Display Driver: NVIDIA 1.0.0, Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1920x1200

Compiler Notes: --build=aarch64-linux-gnu --disable-browser-plugin --disable-libquadmath --disable-werror --enable-checking=release --enable-clocale=gnu --enable-fix-cortex-a53-843419 --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --target=aarch64-linux-gnu --with-arch-directory=aarch64 --with-default-libstdcxx-abi=new -v
Processor Notes: Scaling Governor: tegra-cpufreq interactive
Python Notes: Python 2.7.12 + Python 3.5.2

Jetson TX2

Processor: ARMv8 rev 3 @ 2.04GHz (6 Cores), Motherboard: quill, Memory: 8192MB, Disk: 31GB 032G34, Graphics: NVIDIA TEGRA, Monitor: DELL P2415Q

OS: Ubuntu 16.04, Kernel: 4.4.38-tegra (aarch64), Desktop: Unity 7.4.5, Display Server: X Server 1.18.4, Display Driver: NVIDIA 1.0.0, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=aarch64-linux-gnu --disable-browser-plugin --disable-libquadmath --disable-werror --enable-checking=release --enable-clocale=gnu --enable-fix-cortex-a53-843419 --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --target=aarch64-linux-gnu --with-arch-directory=aarch64 --with-default-libstdcxx-abi=new -v
Processor Notes: Scaling Governor: tegra_cpufreq schedutil
Disk Mount Options Notes: data=ordered,relatime,rw
Python Notes: Python 2.7.12 + Python 3.5.2

ODROID-C1+

Processor: ARMv7 rev 1 @ 1.54GHz (4 Cores), Motherboard: ODROIDC, Memory: 804MB, Disk: 32GB GB1QT, Graphics: ARM Mali

OS: Ubuntu 16.04, Kernel: 3.10.107-190 (armv7l), Display Server: X Server 1.18.4, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1920x2160

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv7-a --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v
Processor Notes: Scaling Governor: meson_cpufreq performance
Python Notes: Python 2.7.12 + Python 3.5.2

ODROID-C2

Processor: Amlogic @ 1.54GHz (4 Cores), Motherboard: ODROID-C2, Memory: 2048MB, Disk: 32GB GB1QT, Graphics: OSD

OS: Ubuntu 18.04, Kernel: 3.16.57-20 (aarch64), Display Server: X Server 1.19.6, Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1920x1200

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-as=/usr/bin/aarch64-linux-gnu-as --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-ld=/usr/bin/aarch64-linux-gnu-ld -v
Processor Notes: Scaling Governor: meson_cpufreq performance
Disk Mount Options Notes: errors=remount-ro,noatime,rw
Python Notes: Python 2.7.15rc1 + Python 3.6.5

Pine64 1GB

Processor: AArch64 rev 4 @ 1.15GHz (4 Cores), Motherboard: sun50iw1p1, Memory: 1024MB, Disk: 32GB SC32G

OS: Ubuntu 16.04, Kernel: 3.10.104 (aarch64), Display Server: X Server 1.18.4, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=aarch64-linux-gnu --disable-browser-plugin --disable-libquadmath --disable-werror --enable-checking=release --enable-clocale=gnu --enable-fix-cortex-a53-843419 --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --target=aarch64-linux-gnu --with-arch-directory=aarch64 --with-default-libstdcxx-abi=new -v
Processor Notes: Scaling Governor: cpufreq-sunxi interactive
Disk Mount Options Notes: data=ordered,noatime,rw,stripe=1024
Python Notes: Python 2.7.12 + Python 3.5.2

Raspberry Pi 2 B

Processor: ARMv7 rev 5 @ 0.90GHz (4 Cores), Motherboard: BCM2835 Raspberry Pi 2 Model B Rev 1.1, Memory: 927MB, Disk: 32GB GB2MW, Graphics: BCM2708

OS: Raspbian 9.4, Kernel: 4.14.50-v7+ (armv7l), Desktop: LXDE, Display Server: X Server 1.19.2, Compiler: GCC 6.3.0

20170516, File-System: ext4, Screen Resolution: 1920x1200

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv6 --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfp --with-target-system-zlib -v
Processor Notes: Scaling Governor: BCM2835 Freq ondemand
Disk Mount Options Notes: data=ordered,noatime,rw
Python Notes: Python 2.7.13 + Python 3.5.3

Raspberry Pi 3 B

Processor: ARMv7 rev 4 @ 1.20GHz (4 Cores), Motherboard: BCM2835 Raspberry Pi 3 Model B Rev 1.2, Memory: 927MB, Disk: 32GB GB1QT, Graphics: BCM2708

OS: Raspbian 9.4, Kernel: 4.14.62-v7+ (armv7l), Desktop: LXDE, Display Server: X Server 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 656x416

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv6 --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfp --with-target-system-zlib -v
Processor Notes: Scaling Governor: BCM2835 Freq ondemand
Disk Mount Options Notes: data=ordered,noatime,rw
Python Notes: Python 2.7.13 + Python 3.5.3

Raspberry Pi 3 B+

Processor: ARMv7 rev 4 @ 1.40GHz (4 Cores), Motherboard: BCM2835 Raspberry Pi 3 Model B Plus Rev 1.3, Memory: 927MB, Disk: 32GB GB2MW, Graphics: BCM2708

OS: Raspbian 9.4, Kernel: 4.14.62-v7+ (armv7l), Desktop: LXDE, Display Server: X Server 1.19.2, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1200

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv6 --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfp --with-target-system-zlib -v
Processor Notes: Scaling Governor: BCM2835 Freq ondemand
Disk Mount Options Notes: data=ordered,noatime,rw
Python Notes: Python 2.7.13 + Python 3.5.3

Socionext Developerbox

Processor: Unknown (24 Cores), Motherboard: Socionext SynQuacer E- DeveloperBox (build #38 BIOS), Memory: 32768MB, Disk: 8GB M32508 + 1000GB Samsung SSD 970 EVO 1TB, Graphics: ASUS NVIDIA GeForce GT 710B 1024MB, Audio: NVIDIA GK208 HDMI/DP, Monitor: ASUS VG236

OS: Ubuntu 18.04, Kernel: 4.15.0-33-generic (aarch64), Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-as=/usr/bin/aarch64-linux-gnu-as --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-ld=/usr/bin/aarch64-linux-gnu-ld -v
Disk Notes: NONE / data=ordered,errors=remount-ro,relatime,rw
Python Notes: Python 2.7.15rc1 + Python 3.6.5

Various ARM Linux Benchmarks - Spetember 2018

Tinker Board

Processor: ARMv7 rev 1 @ 1.80GHz (4 Cores), Motherboard: Rockchip (Device Tree), Memory: 2048MB, Disk: 32GB GB1QT, Monitor: Acer P243W

OS: Debian 9.0, Kernel: 4.4.16-00006-g4431f98-dirty (armv7l), Desktop: LXDE, Display Server: X Server 1.18.4, Compiler: GCC 6.3.0 20170516, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --enable-checking=release --enable-clocale=gnu --enable-default-pie --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv7-a --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb --with-target-system-zlib -v
Processor Notes: Scaling Governor: cpufreq-dt interactive
Disk Mount Options Notes: data=ordered,noatime,rw
Python Notes: Python 2.7.13 + Python 3.5.3

ODROID-N2

Processor: ARMv8 Cortex-A73 @ 1.90GHz (6 Cores), Motherboard: Hardkernel ODROID-N2, Memory: 4096MB, Disk: 16GB AJTD4R + 16GB SA16G, Graphics: OSD

OS: Debian 9.7, Kernel: 4.9.156-odroidn2-arm64 (aarch64), Compiler: GCC 6.3.0 20170516, File-System: overlayfs, Screen Resolution: 1920x2160, System Layer: Docker

Compiler Notes: --build=aarch64-linux-gnu --disable-browser-plugin --disable-libquadmath --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --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-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-arch-directory=aarch64 --with-default-libstdcxx-abi=new -v
Processor Notes: Scaling Governor: arm-big-little performance
Python Notes: Python 2.7.13 + Python 3.5.3

ODROID-N1

Processor: ARMv8 Cortex-A72 @ 1.51GHz (6 Cores), Motherboard: Hardkernel ODROID-N1, Memory: 4096MB, Disk: 32GB SE32G

OS: Ubuntu 18.04, Kernel: 4.4.154-1124-rockchip-ayufan-ged3ce4d15ec1 (aarch64), Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Processor Notes: Scaling Governor: cpufreq-dt performance
Python Notes: + Python 3.6.7

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Phoronix Test Suite

	ALL-H3-CC H2+	ALL-H3-CC H3	ALL-H3-CC H5	AML-S905X-CC Le Potato	Banana Pi M3	Firefly ROC-RK3328-CC	Jetson TX1	Jetson TX2	ODROID-C1+	ODROID-C2	Pine64 1GB	Raspberry Pi 2 B	Raspberry Pi 3 B	Raspberry Pi 3 B+	Socionext Developerbox	Tinker Board	ODROID-N2	ODROID-N1
Tinymembench - Standard Memcpy (MB/s)	827	912	1339	2095	738	1566	3862	3798	928	1688	1377	956	1297	1288	1543	1502	4103	3547
Normalized	20.16%	22.23%	32.63%	51.06%	17.99%	38.17%	94.13%	92.57%	22.62%	41.14%	33.56%	23.3%	31.61%	31.39%	37.61%	36.61%	100%	86.45%
Tinymembench - Standard Memset (MB/s)	2277	2278	2193	5535	1064	7336	10374	13913	2881	3604	3093	1177	1738	1871	7359	4192	8743	8388
Normalized	16.37%	16.37%	15.76%	39.78%	7.65%	52.73%	74.56%	100%	20.71%	25.9%	22.23%	8.46%	12.49%	13.45%	52.89%	30.13%	62.84%	60.29%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	10.73	10.83	11.91	20.30			45.05		14.15	23.07	15.73	10.94	15.66	16.82	89.28	27.80	54.80	
Normalized	12.02%	12.13%	13.34%	22.74%			50.46%		15.85%	25.84%	17.62%	12.25%	17.54%	18.84%	100%	31.14%	61.38%	
Standard Deviation	0.2%	0.1%	0.1%	0.1%			0.3%		0.8%	0.1%	0.5%	0.3%	3.2%	0.3%	0.1%	0.1%	0%	
x264 - H.2.V.E (FPS)	1.13	1.14				2.12	5.96		1.46	2.89	2.12	1.10	2.03	2.09	12.41	4.42	10.51	
Normalized	9.11%	9.19%				17.08%	48.03%		11.76%	23.29%	17.08%	8.86%	16.36%	16.84%	100%	35.62%	84.69%	
Standard Deviation	0%	0.5%				0.5%	1.7%		0.7%	0.5%	0.3%	0.9%	0.8%	0.3%	0.1%	2%	2.5%	
7-Zip Compression - C.S.T (MIPS)	1162	1197	1301	2209	2654	1951	4526	5650	1477	2198		1125	1863	1796	9368	3472	5904	4743
Normalized	12.4%	12.78%	13.89%	23.58%	28.33%	20.83%	48.31%	60.31%	15.77%	23.46%		12.01%	19.89%	19.17%	100%	37.06%	63.02%	50.63%
Standard Deviation	0.2%		0.2%	0.3%	4.9%	0.1%	1.1%	0.4%	1.6%	1.4%		1.4%	0.4%	1.6%	1.1%	1.8%	0.3%	3.4%
C-Ray - Total Time - 4.1.R.P.P (sec)	4166	4156	3088	1755	1669	1773	851	675	2720	1537	2342	4375	2357	2074	391	1048	510	620
Normalized	9.39%	9.41%	12.66%	22.28%	23.43%	22.05%	45.95%	57.93%	14.38%	25.44%	16.7%	8.94%	16.59%	18.85%	100%	37.31%	76.67%	63.06%
Standard Deviation	0.3%	0.1%	0.3%	0.2%	2.3%	1%	21.5%	27%	0.3%	0.1%	0.3%	0.3%	1.2%	0.2%	0.7%	1%	0.4%	3.4%

Various ARM Linux Benchmarks - Spetember 2018

Primesieve - 1.P.N.G (sec)	1975	1940	1623	891	876	934	401		1591	599	943	1897	1543	1113	133		214	322
Normalized	6.73%	6.86%	8.19%	14.93%	15.18%	14.24%	33.17%		8.36%	22.2%	14.1%	7.01%	8.62%	11.95%	100%		62.15%	41.3%
Standard Deviation	1.9%	1.3%	3.6%	1%	3.5%	2.9%	11.5%		3.4%	0.9%	3.5%	0.5%	3.1%	1.7%	0.2%		1%	2.7%
AOBench - 2048 x 2048 - Total Time (sec)	698	700	491	282	461	289	165	134	457	260	352	667	333	290	400	192	140	108
Normalized	15.47%	15.43%	22%	38.3%	23.43%	37.37%	65.45%	80.6%	23.63%	41.54%	30.68%	16.19%	32.43%	37.24%	27%	56.25%	77.14%	100%
Standard Deviation	0%	0.1%	0.4%	0.1%	2%	0.1%	0.1%	0.1%	0.8%	0%	0.1%	0.1%	0.2%	3.3%	0.1%	0%	0.2%	0%
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1	1407	1383	1219	808	1069	848	441	455	978	822	1034	1315	934	867	931	573	465	517
Normalized	31.34%	31.89%	36.18%	54.58%	41.25%	52%	100%	96.92%	45.09%	53.65%	42.65%	33.54%	47.22%	50.87%	47.37%	76.96%	94.84%	85.3%
Standard Deviation	0.2%	0%	0.2%	0.3%	0.5%	0.5%	0.8%	0%	1.1%	0.2%	0.2%	0.8%	0.1%	0.1%	0.5%	0.2%	0.1%	0.7%
FLAC Audio Encoding - WAV To	537.27	537.42	566.38	334.63	279.92	293.37	78.86	65.15	344.23	263.28	352.20	534.59	387.09	336.07	390.76	122.05	84.18	80.24
Normalized	12.13%	12.12%	11.5%	19.47%	23.27%	22.21%	82.61%	100%	18.93%	24.75%	18.5%	12.19%	16.83%	19.39%	16.67%	53.38%	77.39%	81.19%
Standard Deviation	0.3%	0.3%	0.1%	0.6%	0.9%	1.2%	1.1%	0.6%	1.1%	1.1%	0.1%	0.9%	0.3%	0.6%	0%	2.3%	0.6%	0.4%
LAME MP3 Encoding - WAV To MP3 (sec)	535.90	536.62	518.51	300.96	266.35	296.20	113.14	95.91	331.01	266.80	350.19	514.11	352.66	301.98	406.39	145.59	114.86	93.52
Normalized	17.45%	17.43%	18.04%	31.07%	35.11%	31.57%	82.66%	97.51%	28.25%	35.05%	26.71%	18.19%	26.52%	30.97%	23.01%	64.24%	81.42%	100%
Standard Deviation	0.1%	0.1%	0%	0.1%	1.6%	0.1%	0.2%	0.2%	0.5%	1.7%	0.1%	0.1%	0%	0.3%	0%	0.1%	0%	0.1%
Perl Benchmarks - Pod2html	2.27366229	2.26615629	2.57579869	1.49377750	2.59638113	1.31366123	0.60071034	0.48746904	1.73162418	1.11893361	1.40449621	2.46504575	1.29447902	1.11833973	1.57088061	0.69415680	0.49374637	0.44924779
Normalized	19.76%	19.82%	17.44%	30.07%	17.3%	34.2%	74.79%	92.16%	25.94%	40.15%	31.99%	18.22%	34.7%	40.17%	28.6%	64.72%	90.99%	100%
Standard Deviation	0.7%	0.7%	0.8%	0.4%	1.9%	1.4%	0.9%	1.4%	8.5%	3.4%	0.6%	5.2%	0.6%	3.3%	0.8%	0.2%	0.3%	0.6%

Various ARM Linux Benchmarks - Spetember 2018

Perl Benchmarks - Interpreter	0.010 1216 5	0.010 1096 5	0.010 5771 8	0.007 7608 0	**0.034 7324 5**	0.005 1476 1	**0.002 3586 9**	0.009 8703 1	0.008 1423 1	0.005 5119 3	0.010 2578 6	0.013 4515 5	0.008 4208 4	0.007 4290 1	0.006 5884 0	0.004 2808 1	0.005 7340 8	0.002 8909 0
Normalized	23.3%	23.33 %	22.3%	30.39 %	6.79%	45.82 %	100%	23.9%	28.97 %	42.79 %	22.99 %	17.53 %	28.01 %	31.75 %	35.8%	55.1%	41.13 %	81.59 %
Standard Deviation	0.2%	0.5%	0.2%	1.9%	0.6%	0.9%	1%	2.2%	0.1%	0.5%	1.9%	2.8%	8.3%	9.9%	0.4%	11.8%	5.9%	0.3%
PostgreSQL pgbench - Buffer Test - Normal Load - Read Only				5502		**2977**	16079	14427	5199	6059	4555	3856	6640	6526	**31506**	13309		13815
Normalized				17.46 %		9.45%	51.03 %	45.79 %	16.5%	19.23 %	14.46 %	12.24 %	21.08 %	20.71 %	100%	42.24 %		43.85 %
Standard Deviation				1%		0.5%	1.2%	0.4%	0.6%	3.4%	0.4%	2.6%	1.6%	3.1%	0.4%	1.9%		1.1%
PostgreSQL pgbench - Buffer Test - Normal Load - Read Write				603		263	1222	1793	345	719	456	**133**	409	144	**4166**	1142		842
Normalized				14.47 %		6.31%	29.33 %	43.04 %	8.28%	17.26 %	10.95 %	3.19%	9.82%	3.46%	100%	27.41 %		20.21 %
Standard Deviation				0.6%		11.1%	1.6%	1.6%	9.1%	12.5%	1.5%	1.7%	5.5%	3.4%	0.1%	10.5%		9%
Redis - GET (Reqs/sec)			**54779**	102953	124215	265608	484688	**660813**	167346	271547	255546	113111	213067	240761	235721	326351	569635	563758
Normalized			8.29%	15.58 %	18.8%	40.19 %	73.35 %	100%	25.32 %	41.09 %	38.67 %	17.12 %	32.24 %	36.43 %	35.67 %	49.39 %	86.2%	85.31 %
Standard Deviation			1.1%	0.4%	2.6%	3.3%	1%	0.7%	4.1%	0.5%	2.4%	2.9%	1%	0.8%	1.9%	2.4%	1.2%	1.3%
Redis - SET (Reqs/sec)			**37927**	71525	79881	189623	333535	**432278**	100561	194581	159810	67210	131764	150337	160053	218747	392671	428645
Normalized			8.77%	16.55 %	18.48 %	43.87 %	77.16 %	100%	23.26 %	45.01 %	36.97 %	15.55 %	30.48 %	34.78 %	37.03 %	50.6%	90.84 %	99.16 %
Standard Deviation			1.4%	1%	2.3%	0.3%	2%	0.2%	3.4%	2%	1.2%	1.9%	1.2%	0.8%	0.4%	2.2%	0.2%	0.6%
PyBench - T.F.A.T.T (Milliseconds)	2940 9	2938 9	**4068 0**	22876	15990	14030	6348	5357	23773	12775	20196	37907	24349	20923	19386	9256	6131	**4485**
Normalized	15.25 %	15.26 %	11.03 %	19.61 %	28.05 %	31.97 %	70.65 %	83.72 %	18.87 %	35.11 %	22.21 %	11.83 %	18.42 %	21.44 %	23.14 %	48.46 %	73.15 %	100%
Standard Deviation	0.3%	0.2%	0.2%	0.4%	0.7%	0.6%	0.6%	0.5%	0.3%	2.3%	0.3%	0.2%	0.2%	0.7%	0.1%	0.3%	0.3%	0.1%

Various ARM Linux Benchmarks - Spetember 2018

Hierarchical INTegration - FLOAT	34637880333	34640333	**34003720**	59121388	67935371	61129612	88381313	10398807	55729881	67673261	50185204	35952660	50009135	57957193	44150376	80755325	11292386	**12348596**
Normalized	28.05%	28.05%	27.54%	47.88%	55.01%	49.5%	71.57%	84.21%	45.13%	54.8%	40.64%	29.11%	40.5%	46.93%	35.75%	65.4%	91.45%	100%
Standard Deviation	0%	0%	0.1%	0%	0.3%	0.1%	0.9%	0.3%	1.1%	0%	0.1%	0.5%	0.3%	0.8%	0%	0%	0%	0.3%
PHPBench - P.B.S (Score)	26622	26642	21324	37855	**18202**	53802	111979	133175	34052	59176	36988	20836	34420	40165	38922	66398	109417	**155017**
Normalized	17.17%	17.19%	13.76%	24.42%	11.74%	34.71%	72.24%	85.91%	21.97%	38.17%	23.86%	13.44%	22.2%	25.91%	25.11%	42.83%	70.58%	100%
Standard Deviation	0.2%	0.2%	0.1%	0.2%	0.8%	0.8%	1.7%	1.1%	0.4%	0.8%	0.1%	1.2%	0.3%	0.3%	0.1%	0.6%	0.5%	0.5%
Git - T.T.C.C.G.C (sec)	91.83	87.37	77.19	54.41		40.04	23.66	**17.57**	69.23	38.99	52.64	**97.32**	57.19	51.84	46.37	26.06	19.99	30.92
Normalized	19.13%	20.11%	22.76%	32.29%		43.88%	74.26%	100%	25.38%	45.06%	33.38%	18.05%	30.72%	33.89%	37.89%	67.42%	87.89%	56.82%
Standard Deviation	1.5%	5.1%	5.6%	6%		7.9%	9.8%	2%	4.2%	10.4%	2.7%	4.6%	3.2%	10%	0%	9%	2.9%	16.2%
Scikit-Learn (sec)		2246	1515	954	**221**	650	434		1631	664	853	**2328**	844	785	899	474	343	
Normalized		9.84%	14.59%	23.17%	100%	34%	50.92%		13.55%	33.28%	25.91%	9.49%	26.18%	28.15%	24.58%	46.62%	64.43%	
Standard Deviation		0.1%	0.1%	0.3%	0.2%	0.3%	0.7%		0.2%	0.3%	0.1%	0.6%	0.2%	0.3%	0.1%	0.5%	0.2%	
Tinymembench - Performance / Cost - Standard Memcpy (MB/s/Dollar)	33.08	30.40	33.48	**46.56**		31.32	8.10	6.91	18.94	26.81			37.07	32.38	**1.29**	26.42		
Normalized	71.05%	65.29%	71.91%	100%		67.27%	17.4%	14.84%	40.68%	57.58%			79.62%	69.54%	2.77%	56.74%		
TTSIOD 3D Renderer - Performance / Cost - P.R.W.S.S.M (FPS/Dollar	0.43	0.36	0.30	0.45			0.09		0.29	0.37			0.45	0.42	**0.07**	**0.49**		
Normalized	87.76%	73.47%	61.22%	91.84%			18.37%		59.18%	75.51%			91.84%	85.71%	14.29%	100%		

Various ARM Linux Benchmarks - Spetember 2018

x264 - Performance / Cost - H.2.V.E (FPS/Dollar	0.05	0.04			0.04	**0.01**		0.03	0.05	0.06	0.05	**0.01**	**0.08**
Normalized	62.5%	50%			50%	12.5%		37.5%	62.5%	75%	62.5%	12.5%	100%
7-Zip Compression - Performance / Cost - C.S.T (MIPS/Dollar)	46.48	39.90	32.53	49.09	39.02	9.49	10.27	30.14	34.92	53.24	45.15	**7.81**	**61.07**
Normalized	76.11%	65.33%	53.27%	80.38%	63.89%	15.54%	16.82%	49.35%	57.18%	87.18%	73.93%	12.79%	100%
C-Ray - Performance / Cost - Total Time - 4.1.R.P.P (sec x Dollar)	104150	124680	123520	78975	88650	40591	37124	13328	96754	82471	82504	**469200**	**59579**
Normalized	57.2%	47.79%	48.23%	75.44%	67.21%	14.68%	16.05%	44.7%	61.58%	72.24%	72.21%	12.7%	100%
Primesieve - Performance / Cost - 1.P.N.G (sec x	49375	58200	64920	40095	46700	**19173**		77959	**37707**	53990	44275	159600	
Normalized	76.37%	64.79%	58.08%	94.04%	80.74%	19.71%		48.37%	100%	69.84%	85.17%	23.63%	
AOBench - Performance / Cost - 2048 x 2048 - Total Time (sec x Dollar)	17450	21000	19640	12690	14450	78703	73699	22393	16367	11652	11536	**480000**	**10915**
Normalized	62.55%	51.98%	55.58%	86.01%	75.54%	13.87%	14.81%	48.74%	66.69%	93.68%	94.62%	2.27%	100%

Various ARM Linux Benchmarks - Spetember 2018

Zstd Compression - Performance / Cost - C.u.1.0.3.s.i.i.C.L.1 (sec x Dollar)	35175	41490	48760	36360	42400	210353	250245	47922	51745	32681	34489	**111720**	**32575**
Normalized	92.61%	78.51%	66.81%	89.59%	76.83%	15.49%	13.02%	67.98%	62.95%	99.68%	94.45%	2.92%	100%
FLAC Audio Encoding - Performance / Cost - WAV To FLAC (sec	13432	16123	22655	15058	14669	37615	35832	16867	16573	13544	13369	**46912**	**69393**
Normalized	51.66%	43.04%	30.63%	46.08%	47.3%	18.45%	19.36%	41.14%	41.87%	51.23%	51.9%	1.48%	100%
LAME MP3 Encoding - Performance / Cost - WAV To MP3 (sec x Dollar)	13398	16099	20740	13543	14810	53967	52750	16219	16795	12340	12013	**48766**	**82777**
Normalized	61.78%	51.41%	39.91%	61.11%	55.89%	15.34%	15.69%	51.03%	49.28%	67.08%	68.9%	1.7%	100%
Perl Benchmarks - Performance / Cost - Pod2html (sec x Dollar)	56.84	67.98	103.03	67.22	65.68	286.53	268.10	84.85	70.44	45.29	44.49	**1885**	**39.46**
Normalized	69.42%	58.05%	38.3%	58.7%	60.08%	13.77%	14.72%	46.51%	56.02%	87.13%	88.69%	2.09%	100%

Various ARM Linux Benchmarks - Spetember 2018

Perl Benchmarks - Performance / Cost - Interpreter (sec x Dollar)	0.25	0.30	0.42	0.35	0.26	1.13	5.43	0.40	0.35	0.29	0.30	**7.91**	**0.24**
Normalized	96%	80%	57.14%	68.57%	92.31%	21.24%	4.42%	60%	68.57%	82.76%	80%	3.03%	100%
PyBench - Performance / Cost - T.F.A.T.T (Milliseconds x Dollar)	735225	881670	162720042	102942086	701500	302793377	294629687	116487786	804186	851972	832317	**232632004**	**526204**
Normalized	71.57%	59.68%	32.34%	51.12%	75.01%	17.38%	17.86%	45.17%	65.43%	61.76%	63.22%	2.26%	100%
Hierarchical INTegration - Performance / Cost - FLOAT (QUIPs/Doll	1385515	1154678	850093	1313809	1222592	185290	189073	113734	1075032	1429241	**1456943**	**367932**	1420498
Normalized	95.1%	79.25%	58.35%	90.18%	83.91%	12.72%	12.98%	78.06%	73.79%	98.1%	100%	2.53%	97.5%
PHPBench - Performance / Cost - P.B.S (Score/Doll	1065	888.07	533.10	841.22	1076	234.76	242.14	694.94	940.05	983.71	1010	**32.44**	**1168**
Normalized	91.18%	76.04%	45.64%	72.03%	92.13%	20.1%	20.73%	59.5%	80.49%	84.23%	86.45%	2.78%	100%
Git - Performance / Cost - T.T.C.C.G.C (sec x Dollar)	2296	2621	3088	2448	2002	11286	9663	3392	2454	2001	2062	**55644**	**1482**
Normalized	64.53%	56.52%	47.98%	60.51%	74%	13.13%	15.33%	43.67%	60.36%	74.04%	71.84%	2.66%	100%

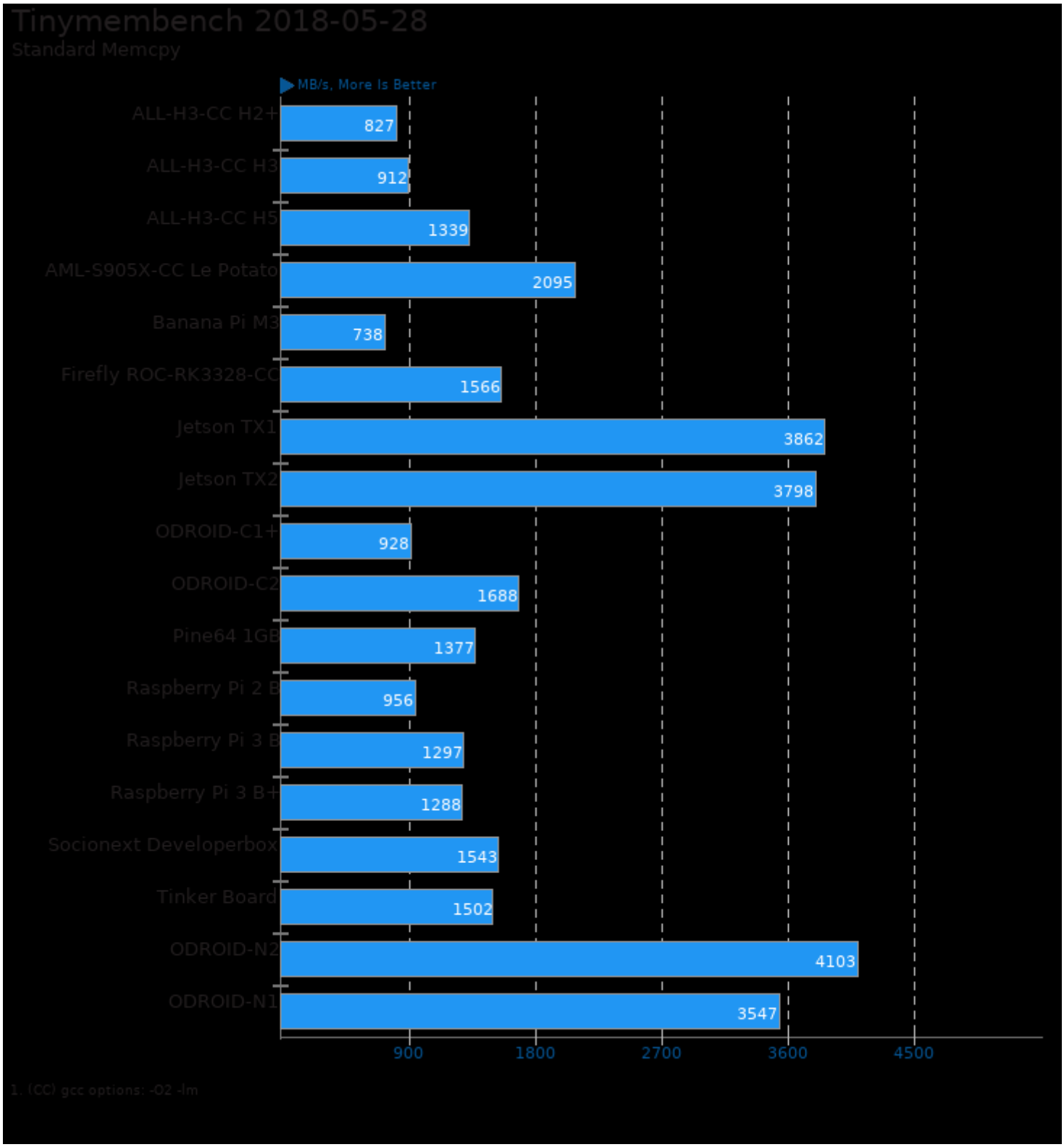
Various ARM Linux Benchmarks - Spetember 2018

Scikit-Learn - Performance / Cost - (sec x Dollar)	67380	60600	42930	32500	207014		79919	41799	29532	31227	**1078800**	**26947**
Normalized	39.99%	44.47%	62.77%	82.91%	13.02%		33.72%	64.47%	91.25%	86.29%	2.5%	100%
Redis - Performance / Cost - GET (Reqs/sec/ Dollar)		1369	2288	5312	1016	1202	3415	4314	**6089**	6052	**196.43**	5741
Normalized		22.49%	37.57%	87.24%	16.69%	19.73%	56.08%	70.84%	100%	99.39%	3.23%	94.27%
Redis - Performance / Cost - SET (Reqs/sec/ Dollar)		948.18	1589	3792	699.25	785.97	2052	3091	3766	3779	**133.38**	**3848**
Normalized		24.64%	41.31%	98.56%	18.17%	20.43%	53.34%	80.33%	97.87%	98.22%	3.47%	100%
PostgreSQL pgbench - Performance / Cost - Buffer Test - Normal Load - Read Only (TPS/Dollar			122.27	59.54	33.71	**26.23**	106.10	96.25	189.77	164.05	26.26	**234.11**
Normalized			52.23%	25.43%	14.4%	11.2%	45.32%	41.11%	81.06%	70.07%	11.22%	100%

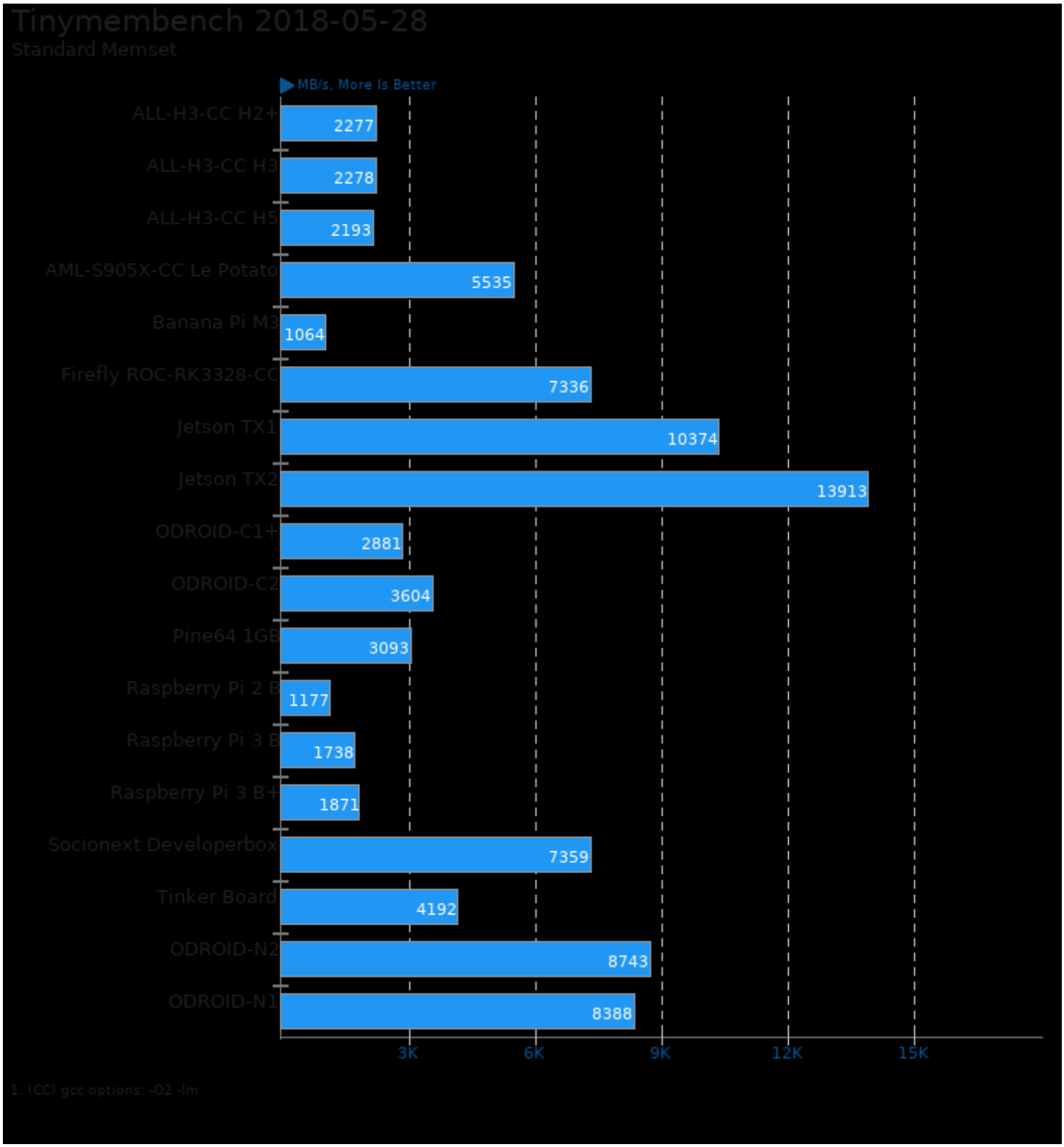
Various ARM Linux Benchmarks - Spetember 2018

PostgreSQL pgbench - Performance / Cost - Buffer Test - Normal Load - Read Write (TPS/Dollar	13.40	5.26	**2.56**	3.26	7.04	11.42	11.69	3.62	3.47	**20.09**
Normalized	66.7%	26.18 %	12.74 %	16.23 %	35.04 %	56.84 %	58.19 %	18.02 %	17.27 %	100%

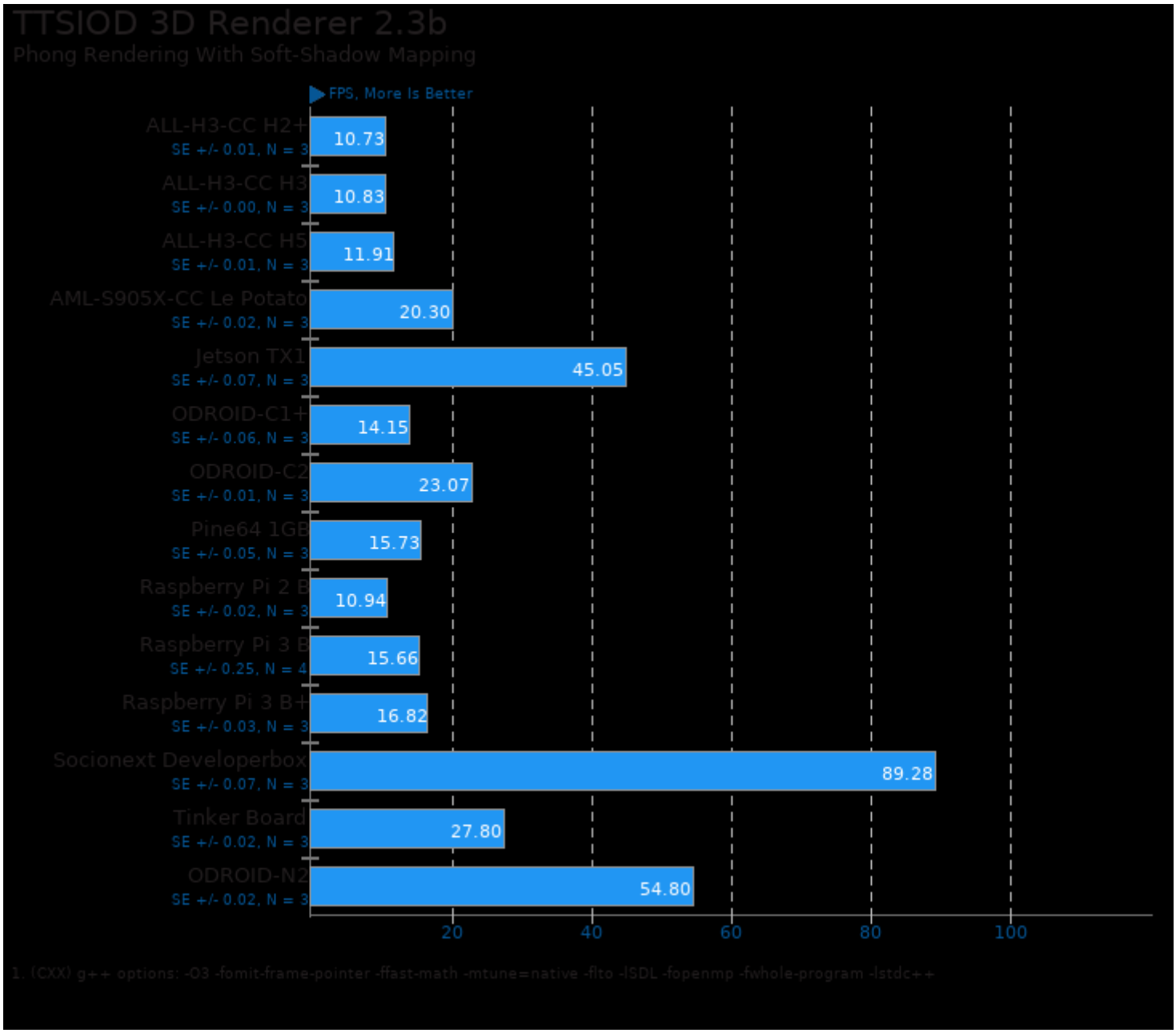
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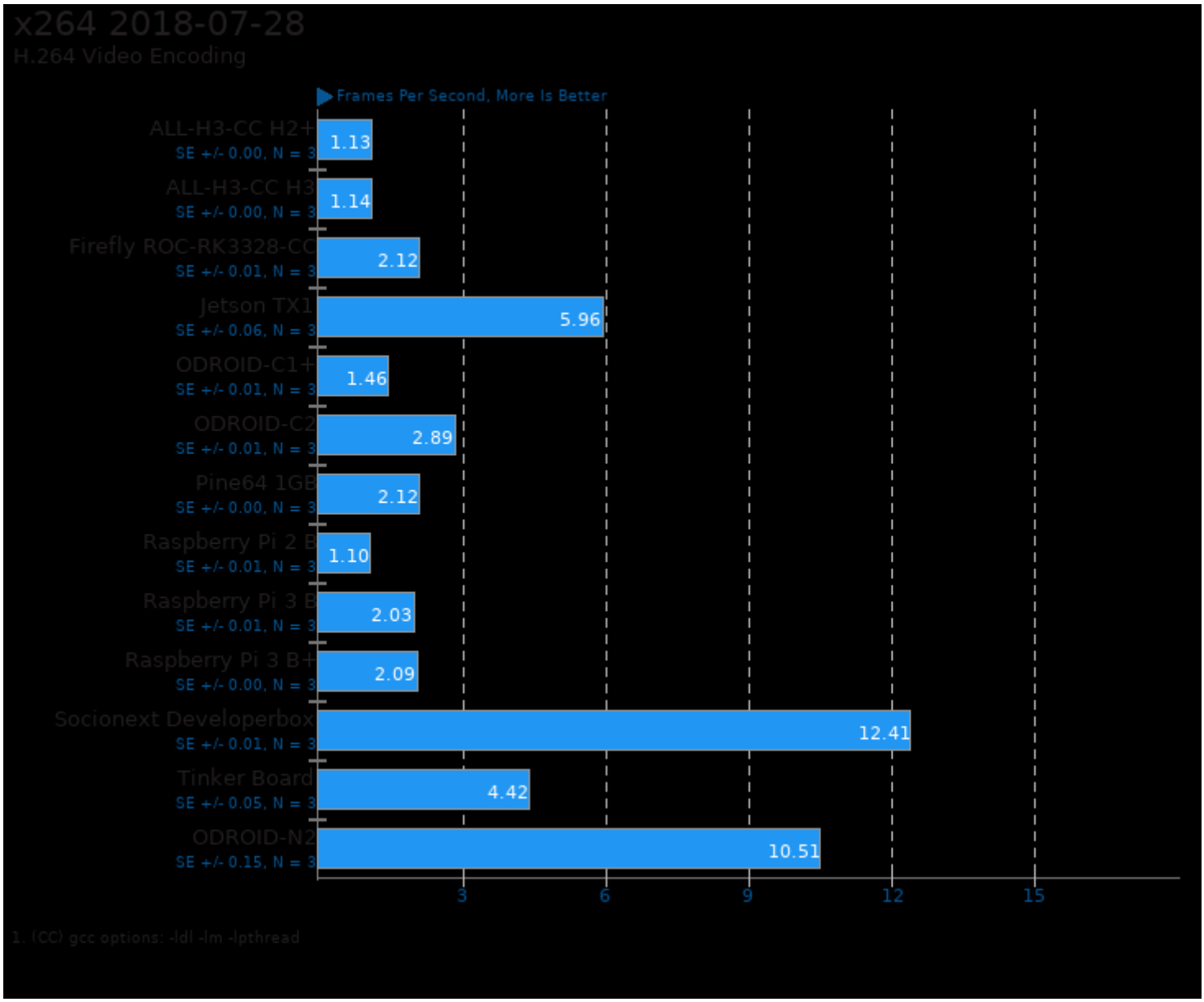
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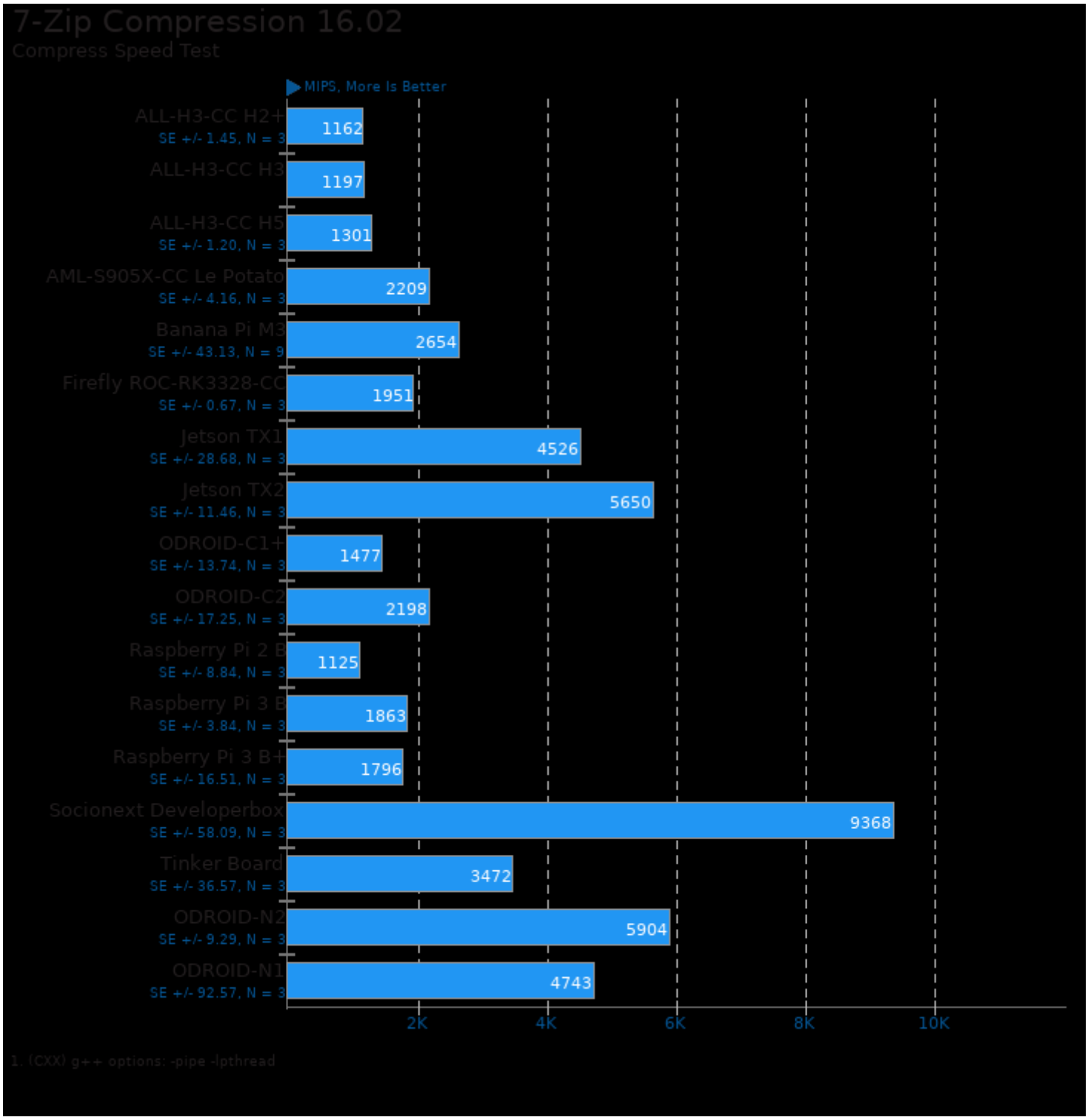
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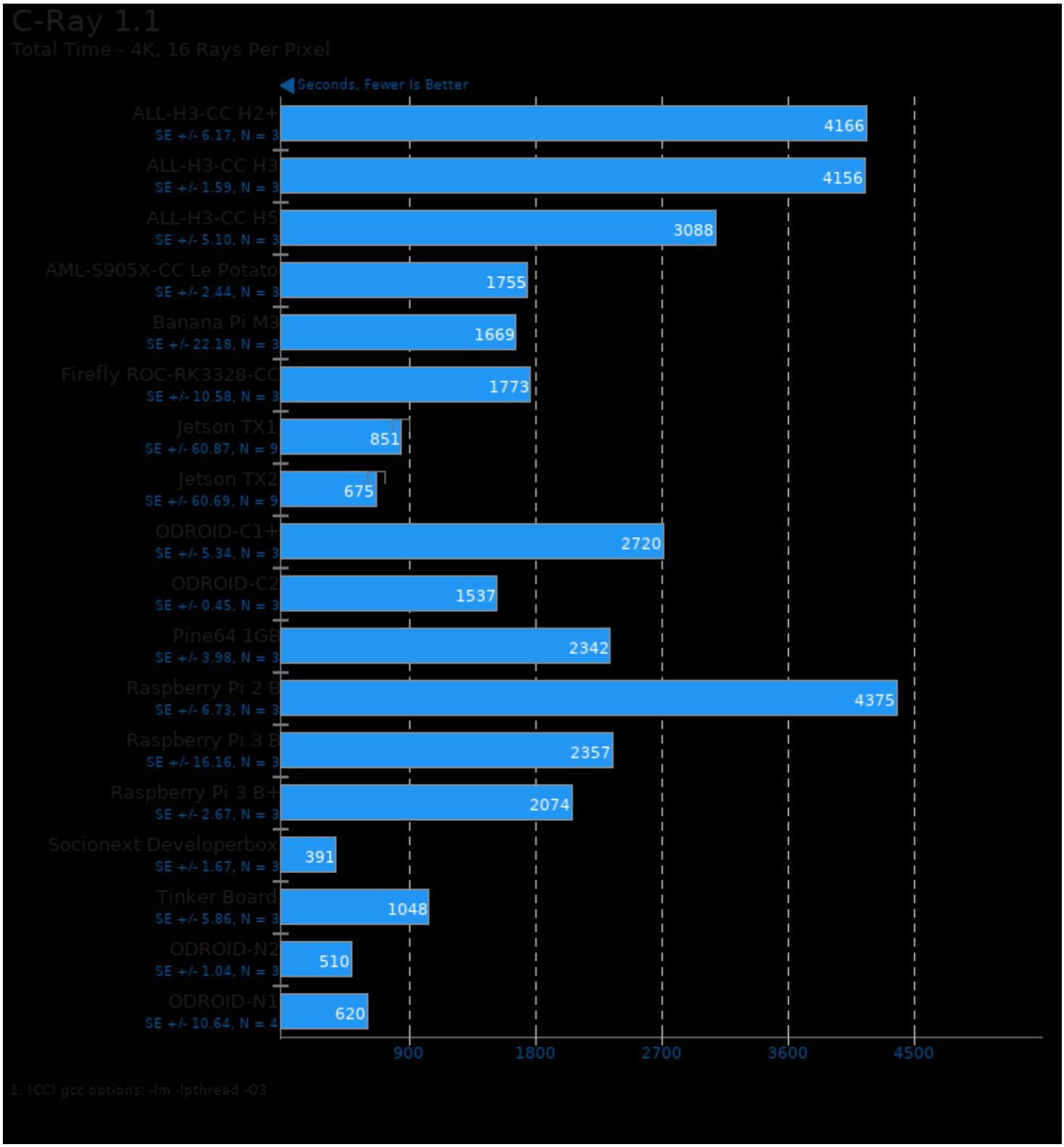
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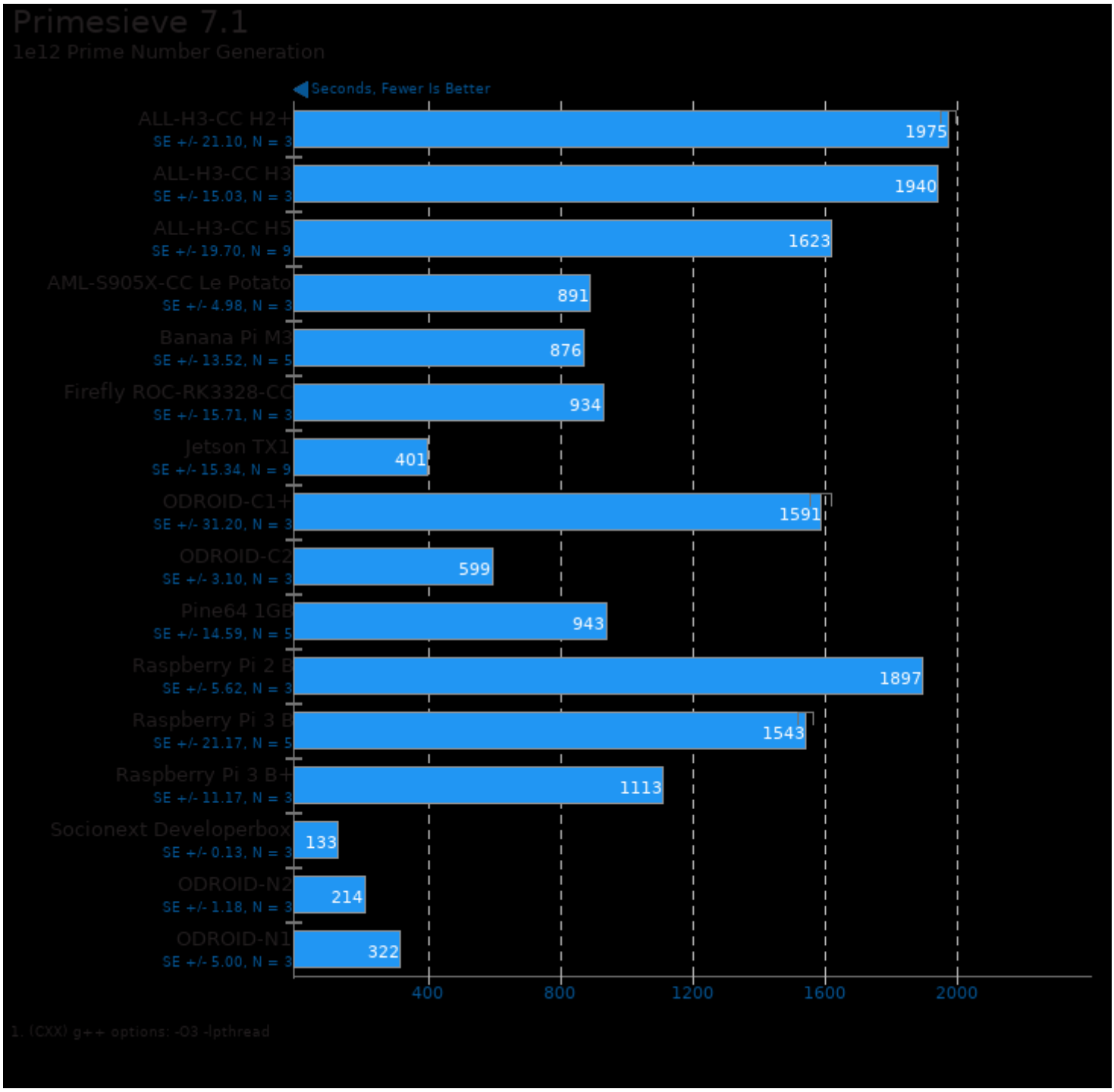
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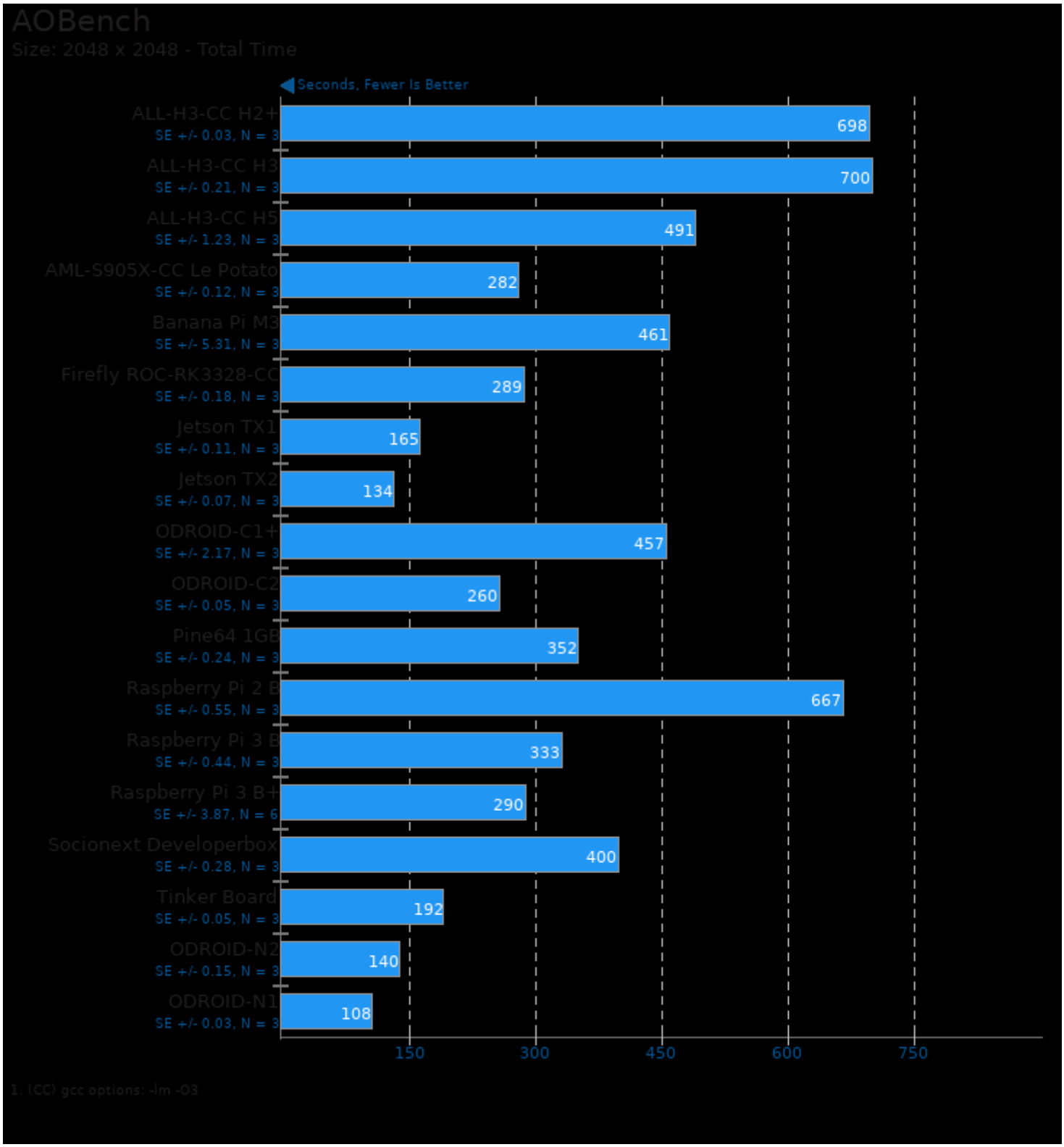
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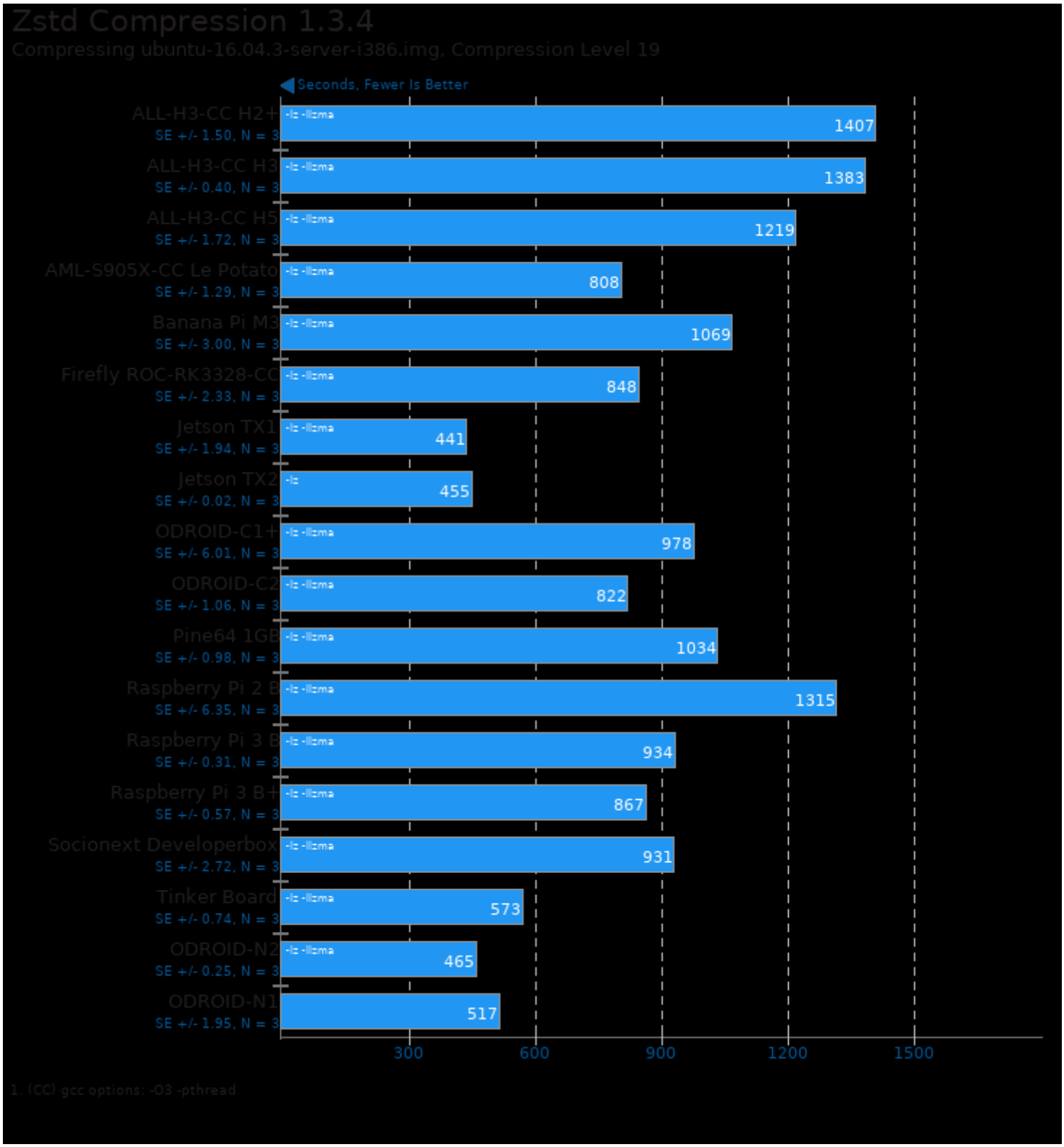
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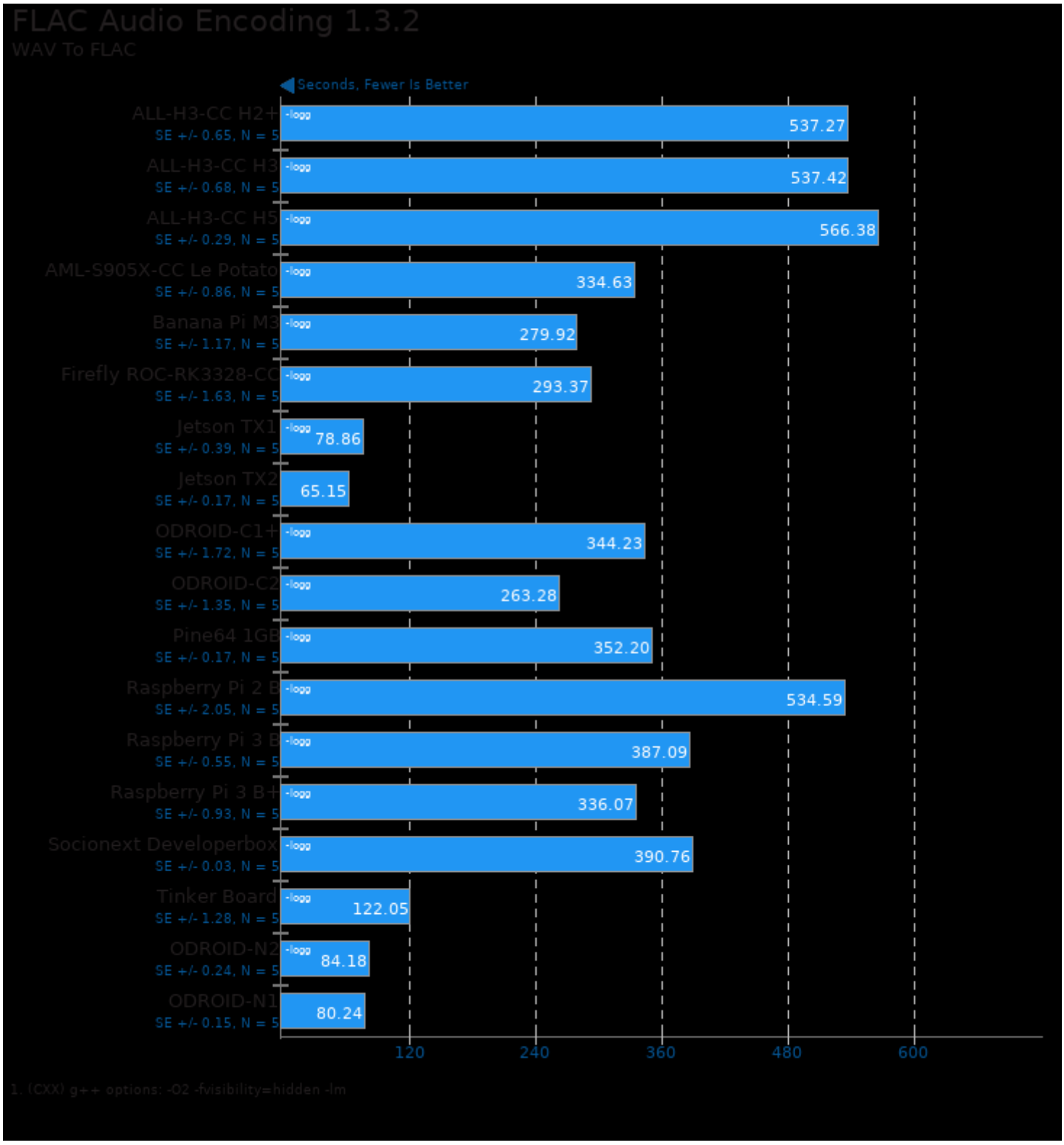
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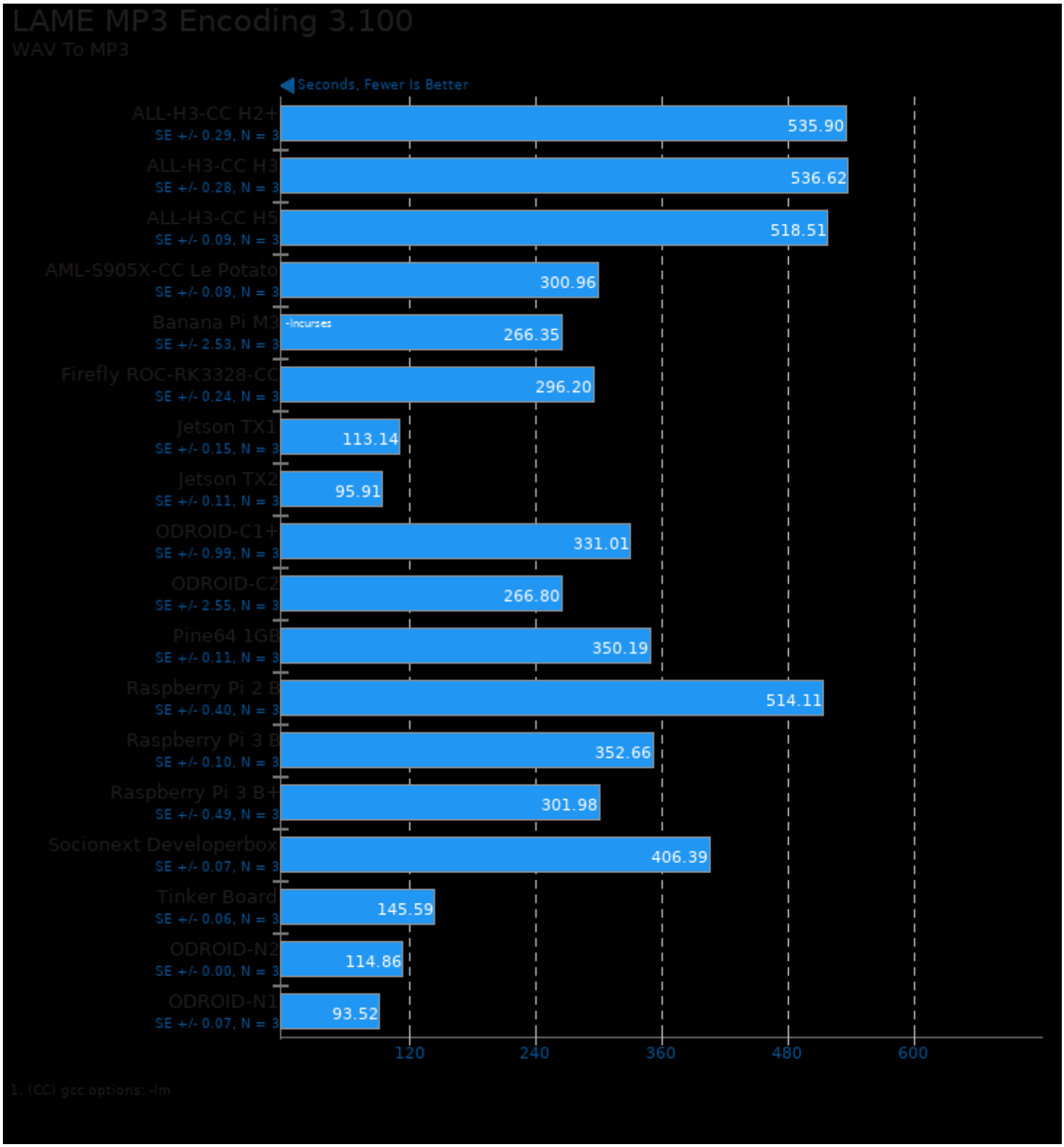
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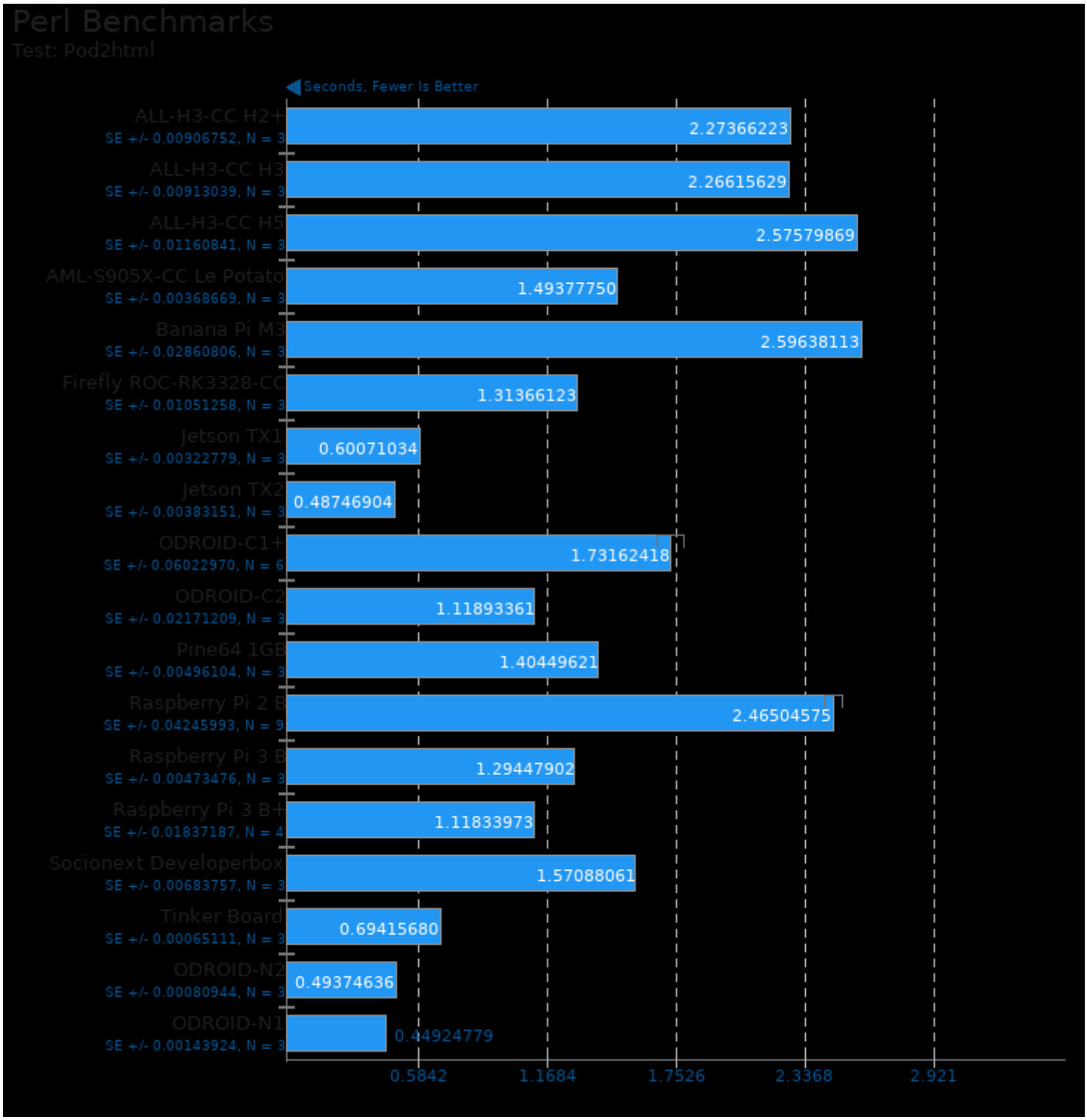
Various ARM Linux Benchmarks - Spetember 2018



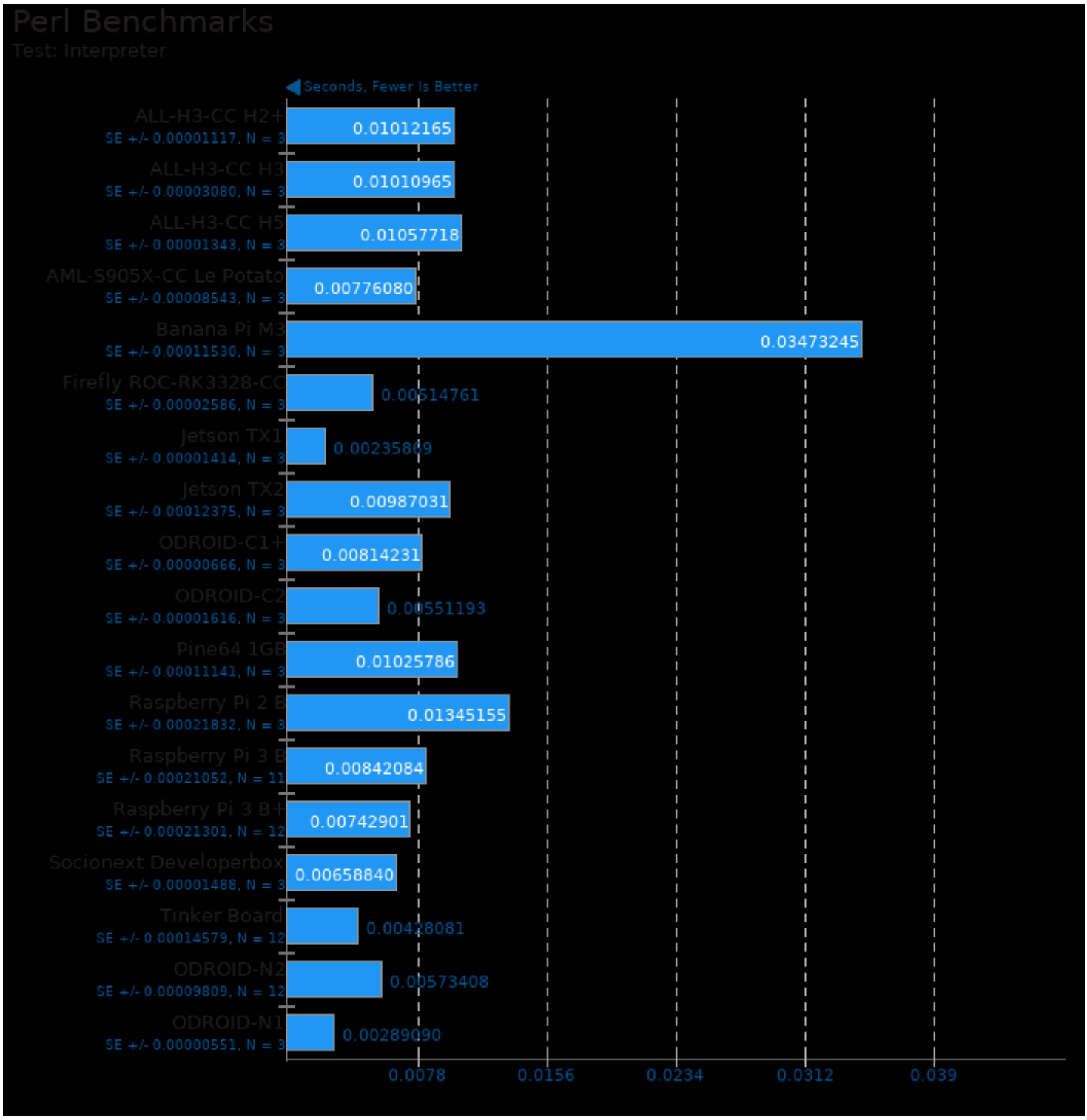
Various ARM Linux Benchmarks - Spetember 2018



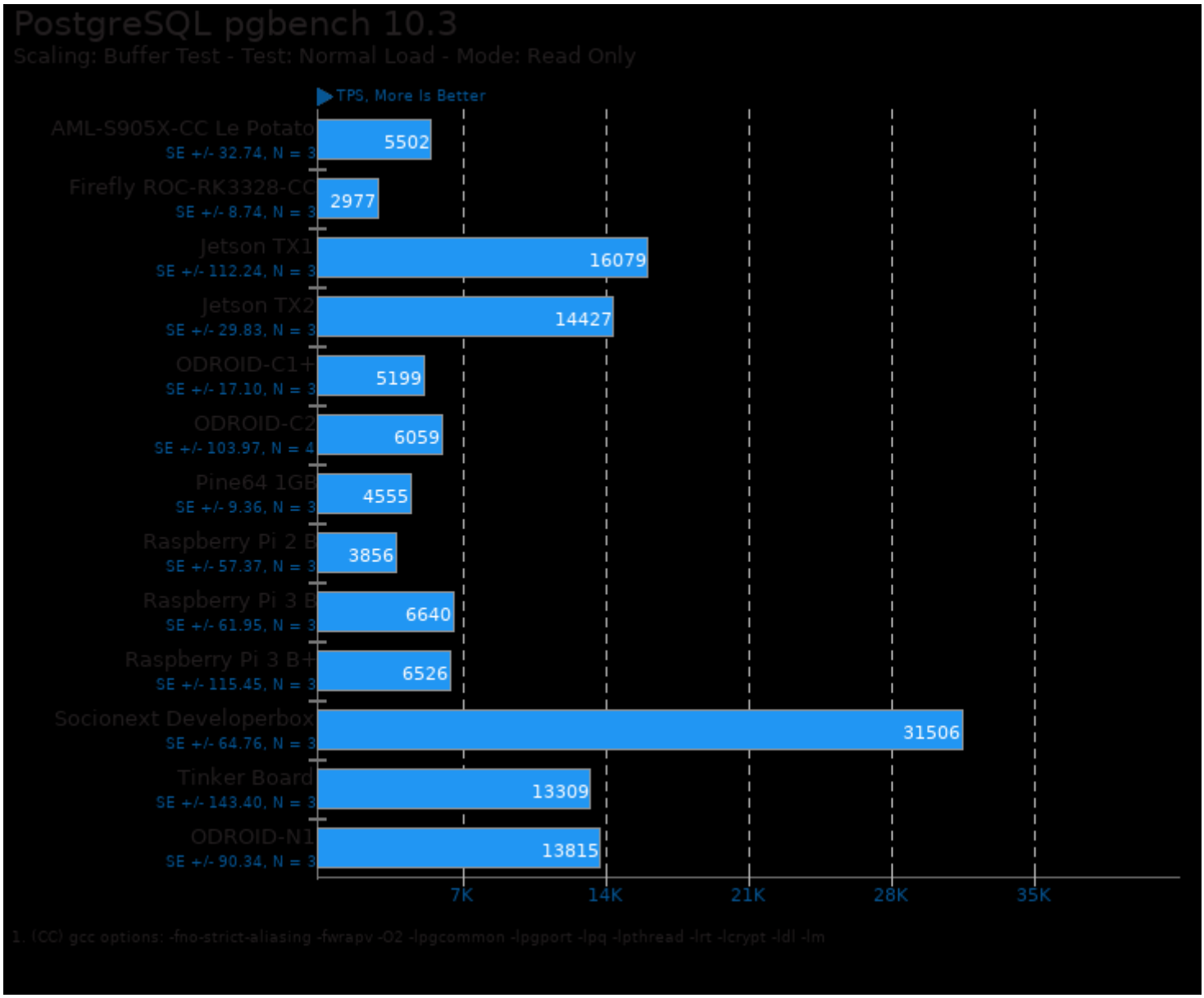
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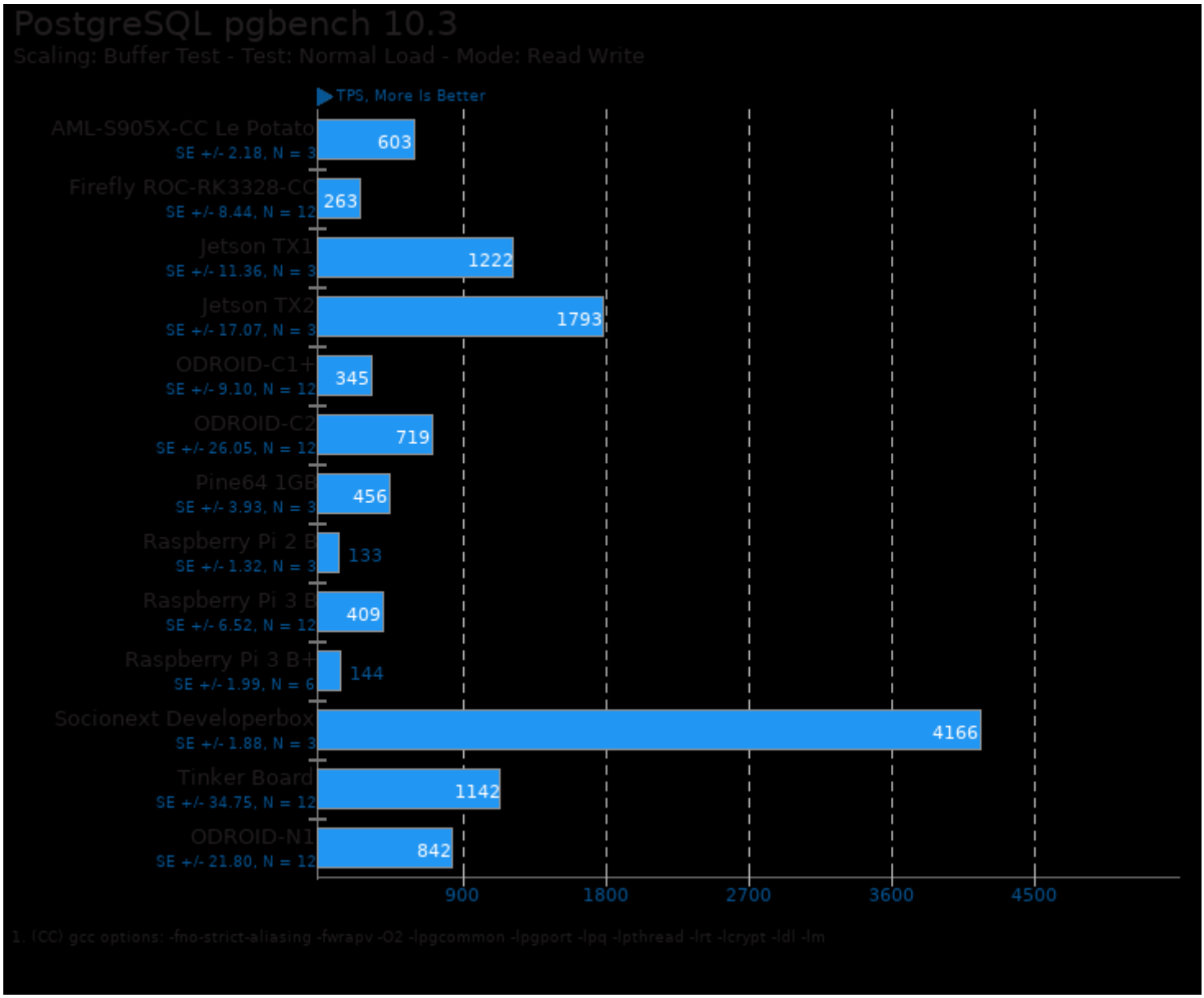
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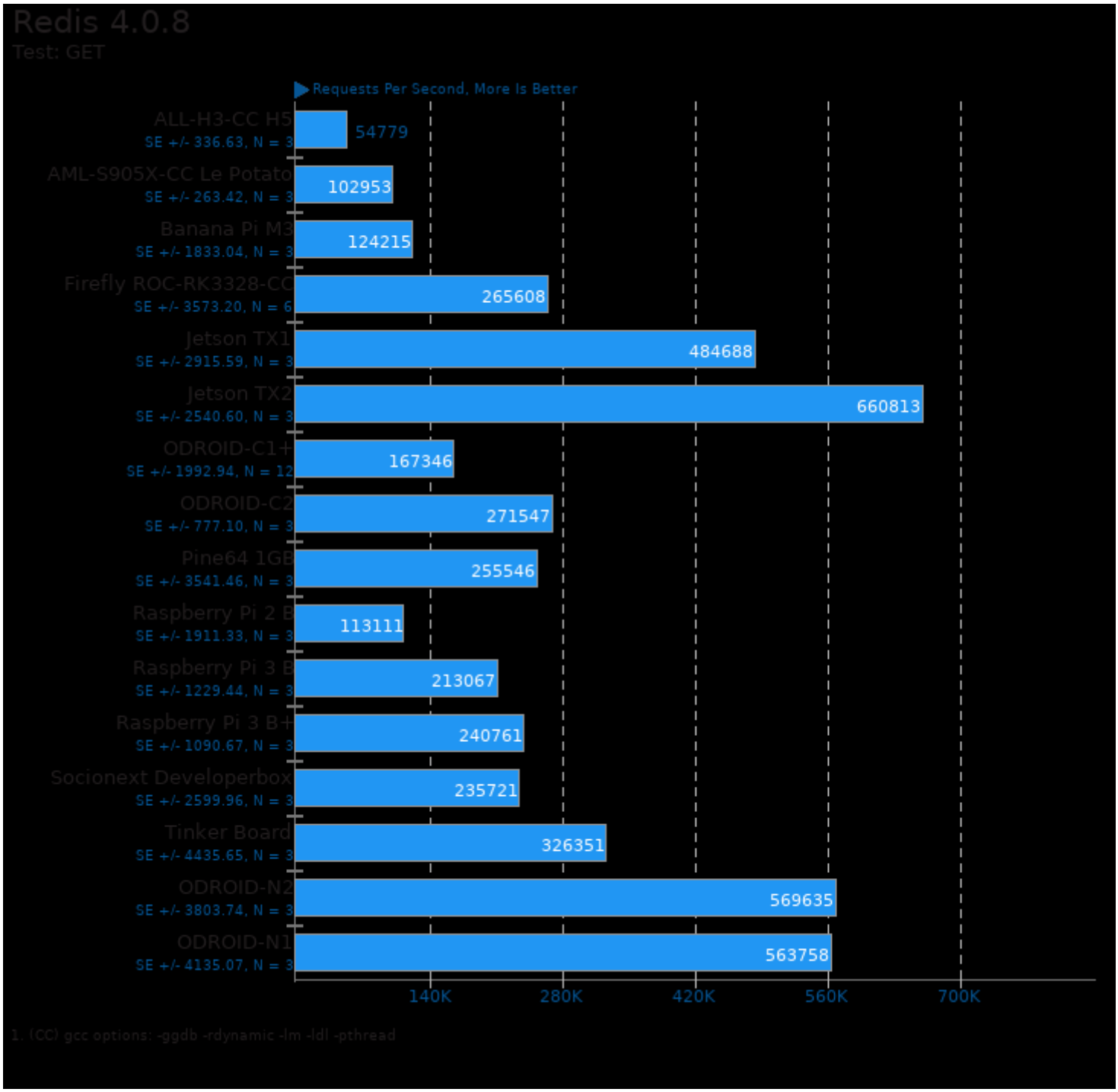
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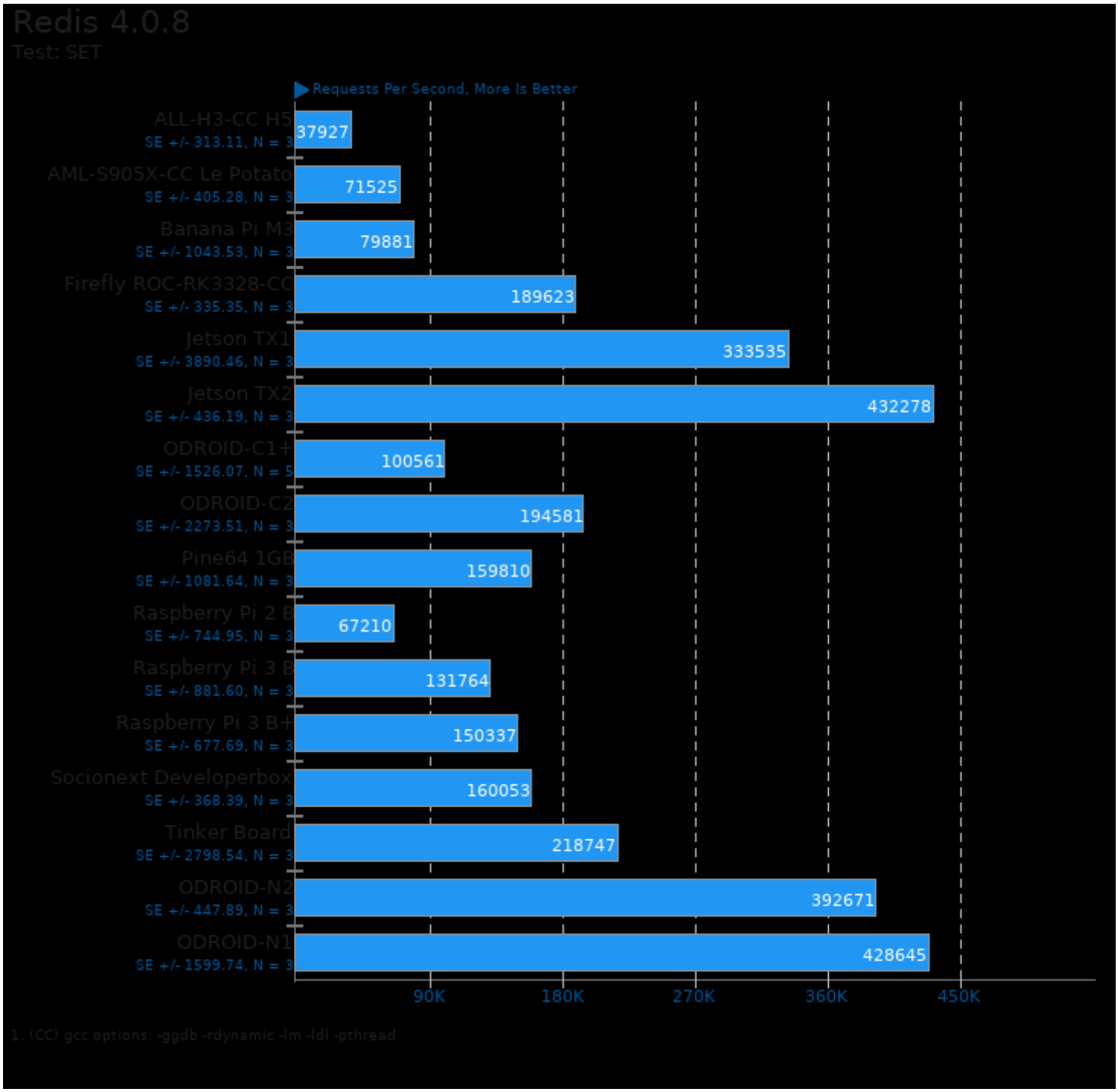
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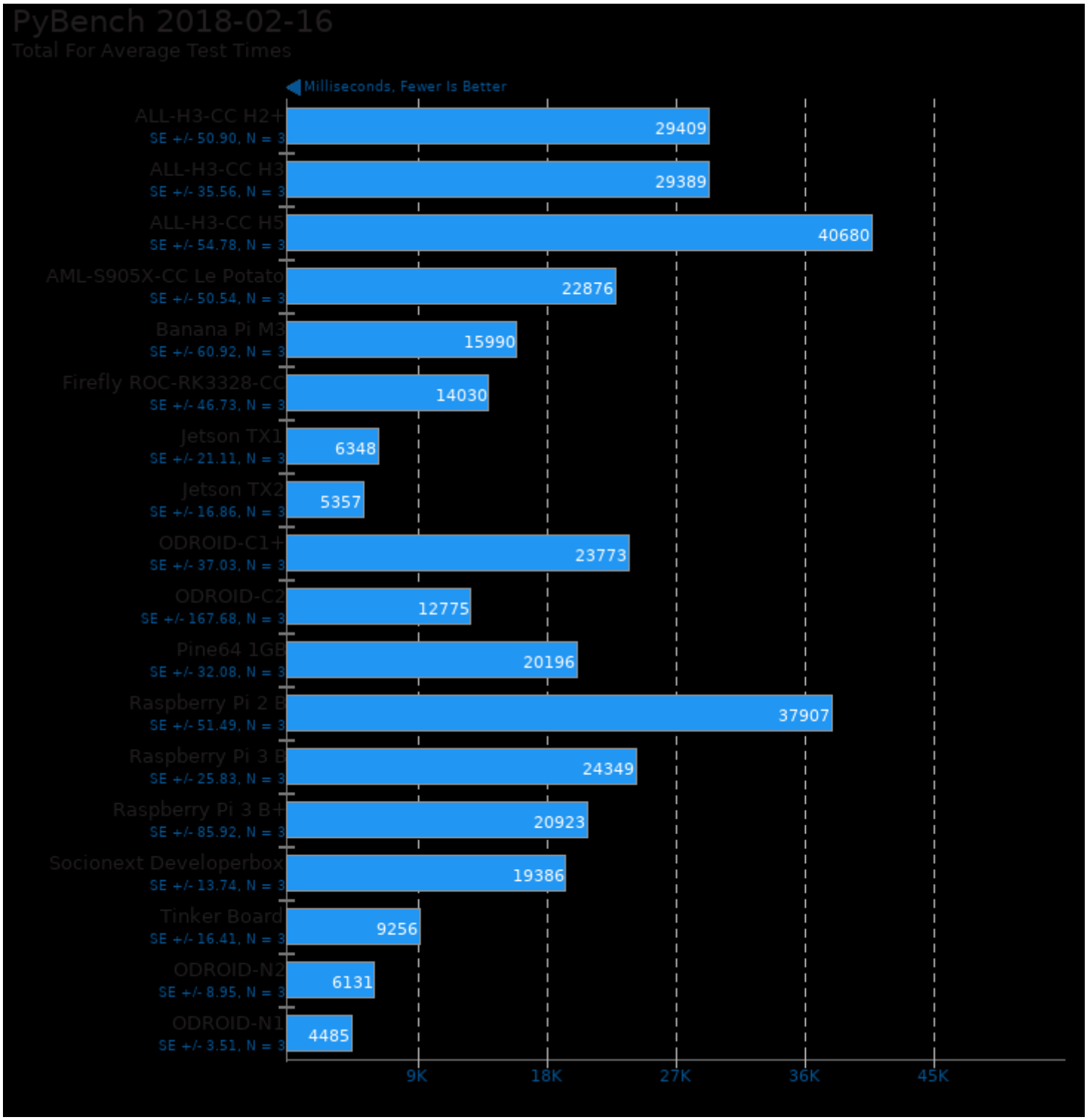
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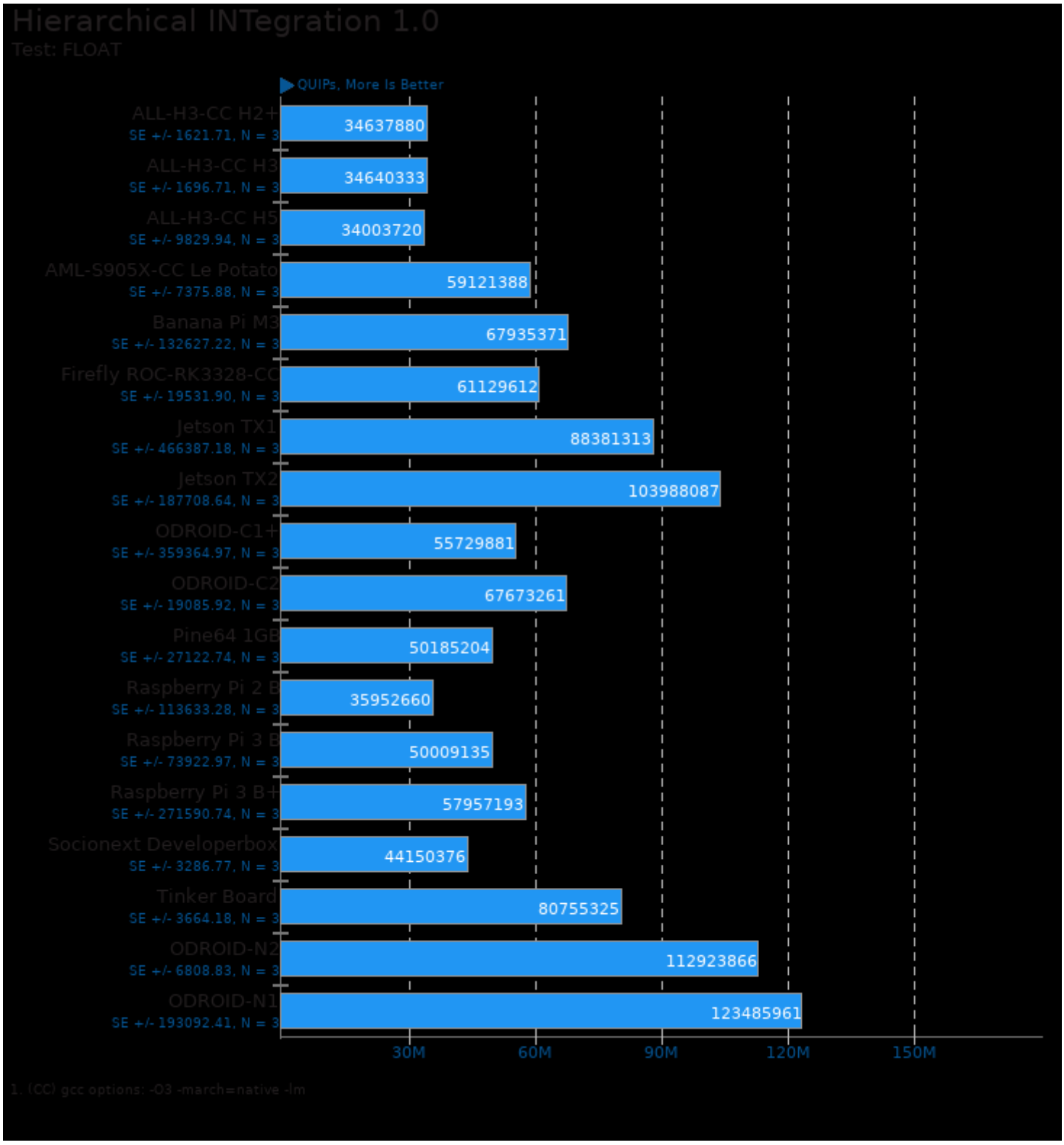
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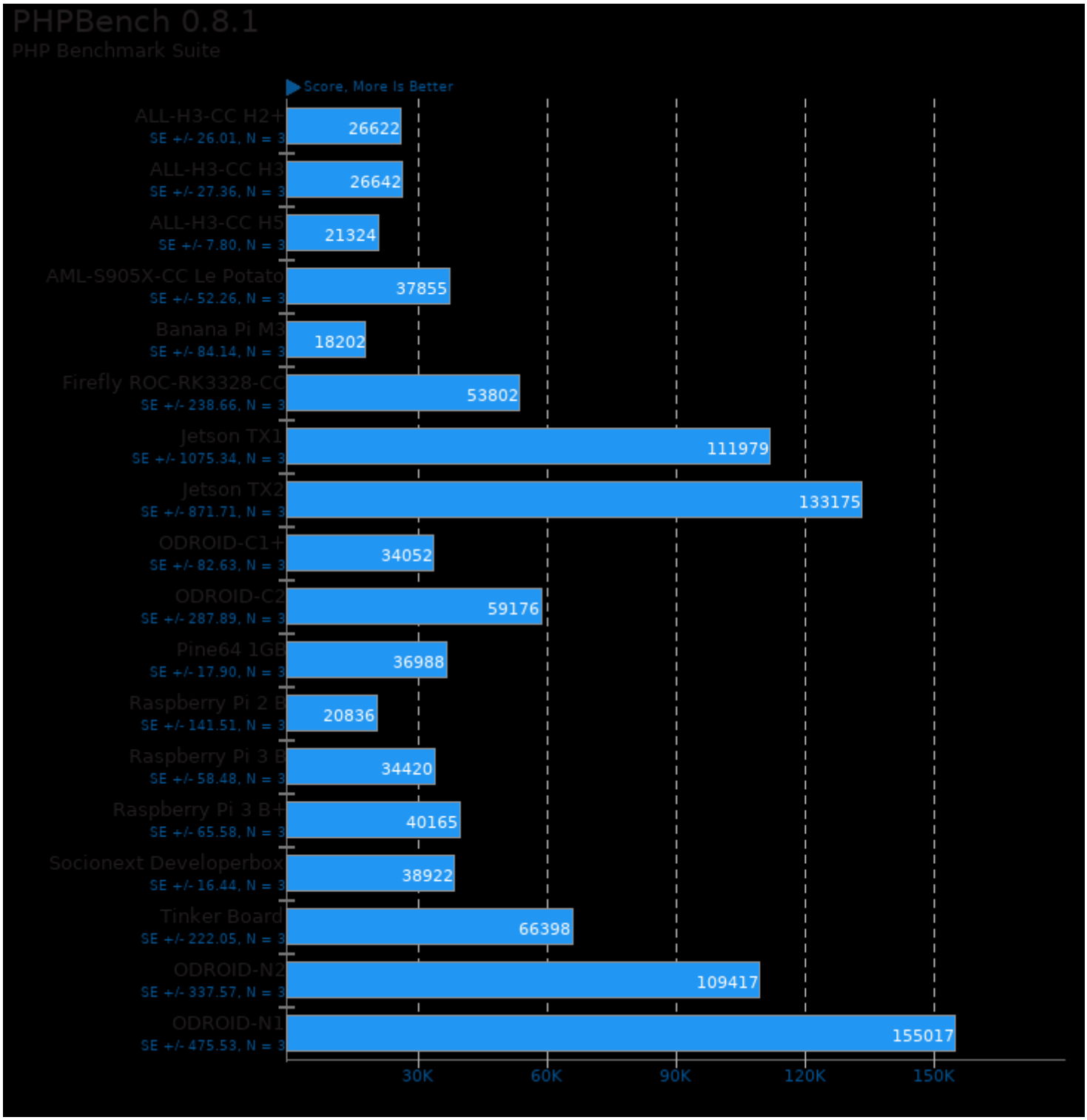
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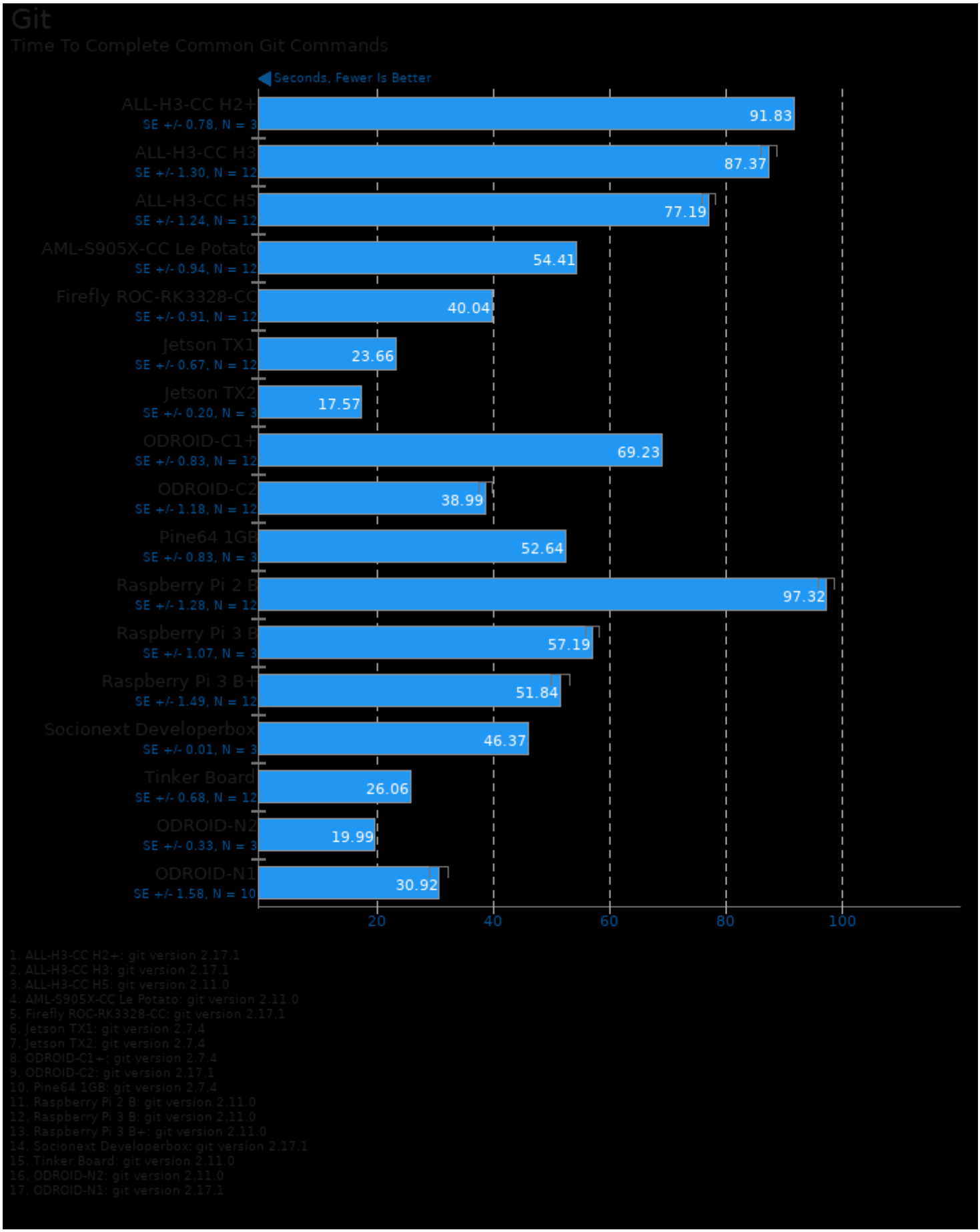
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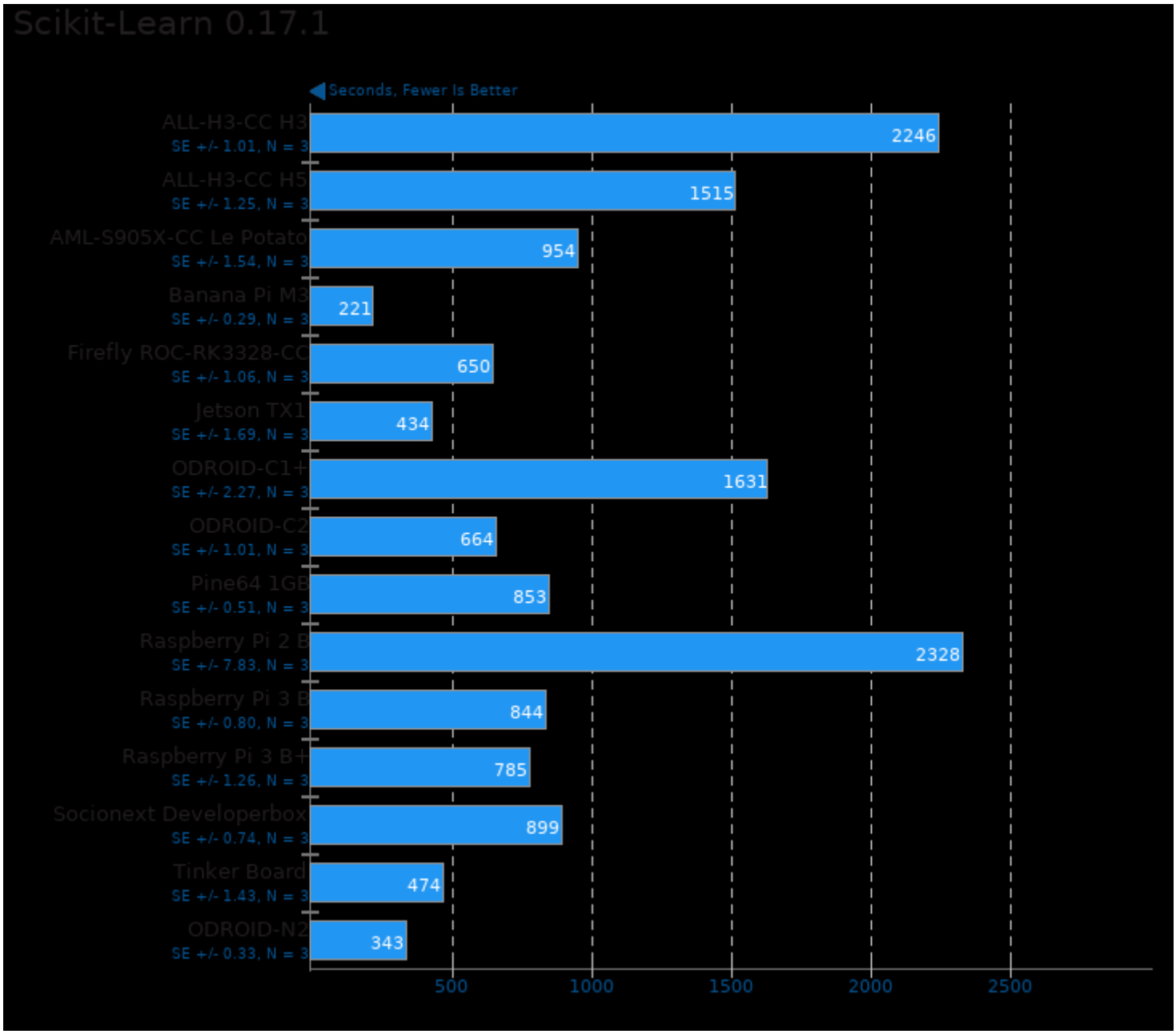
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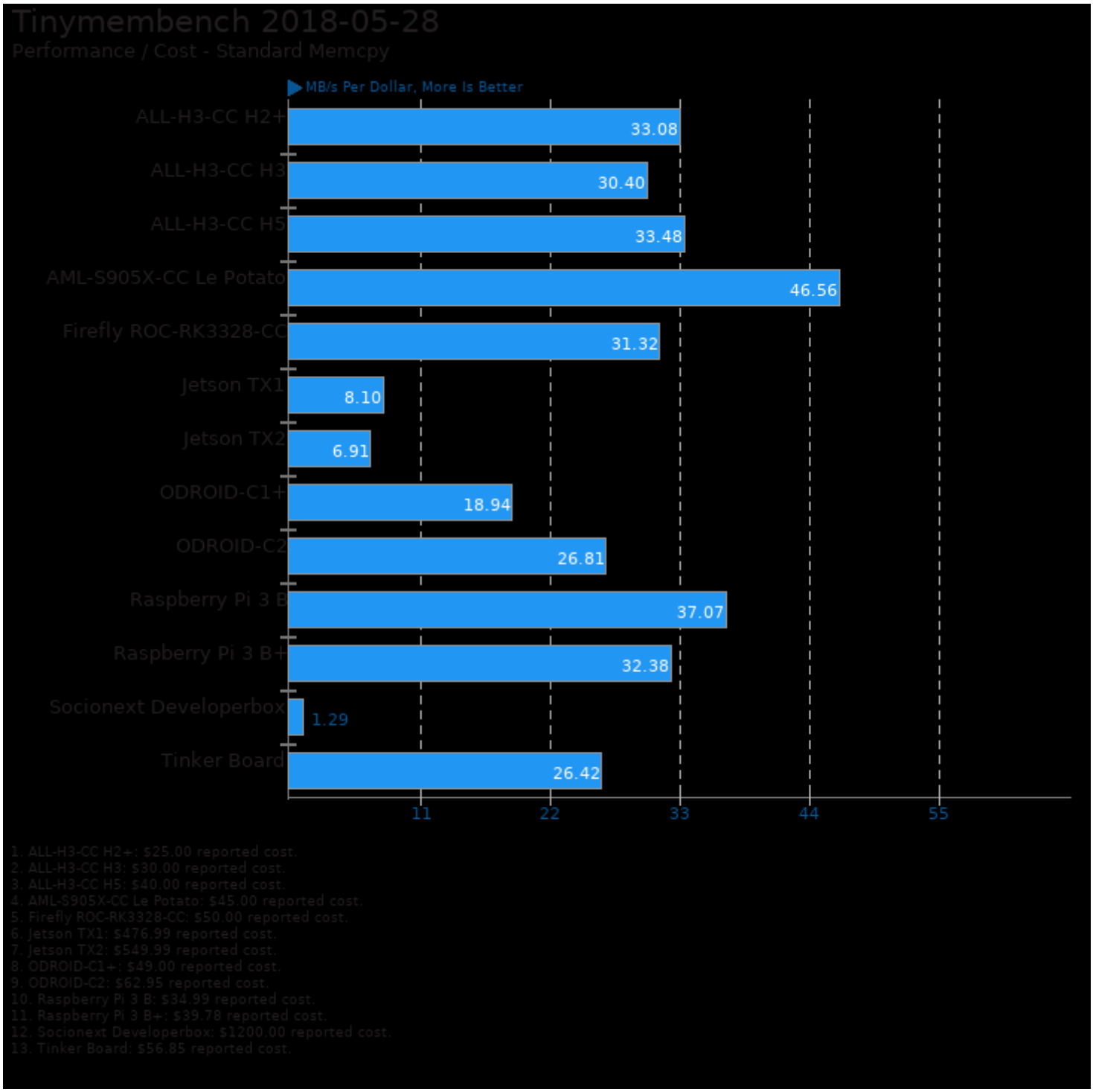
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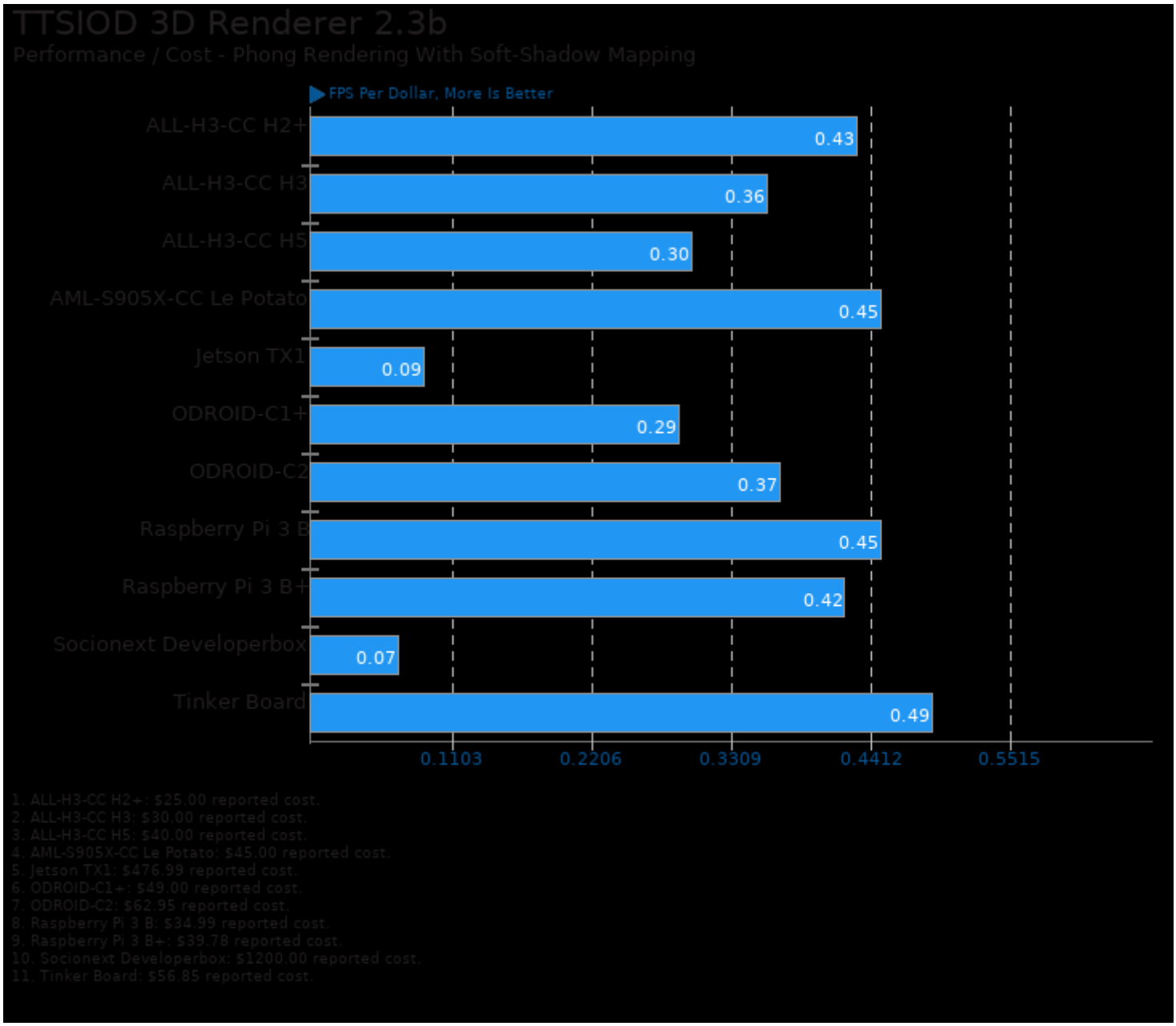
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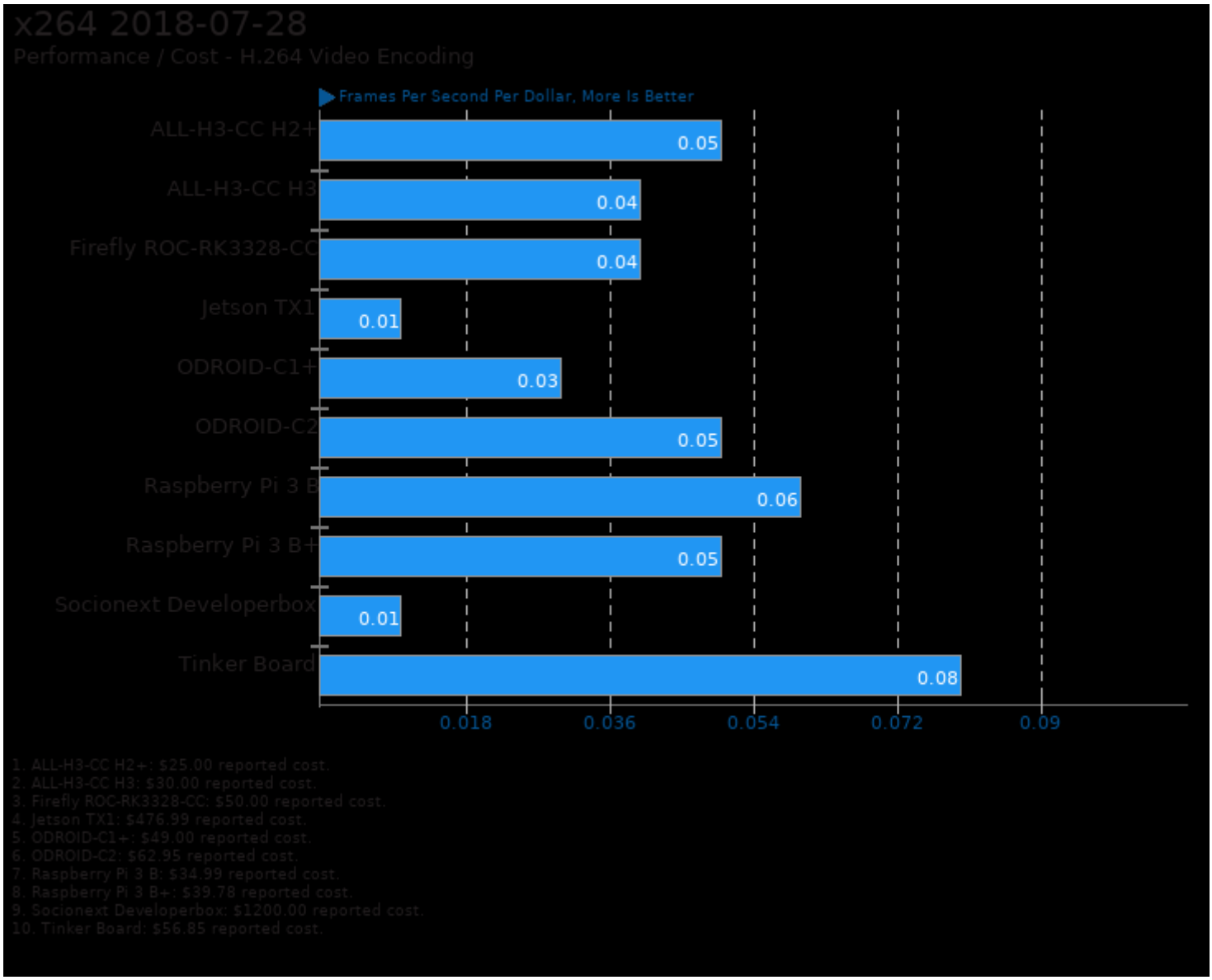
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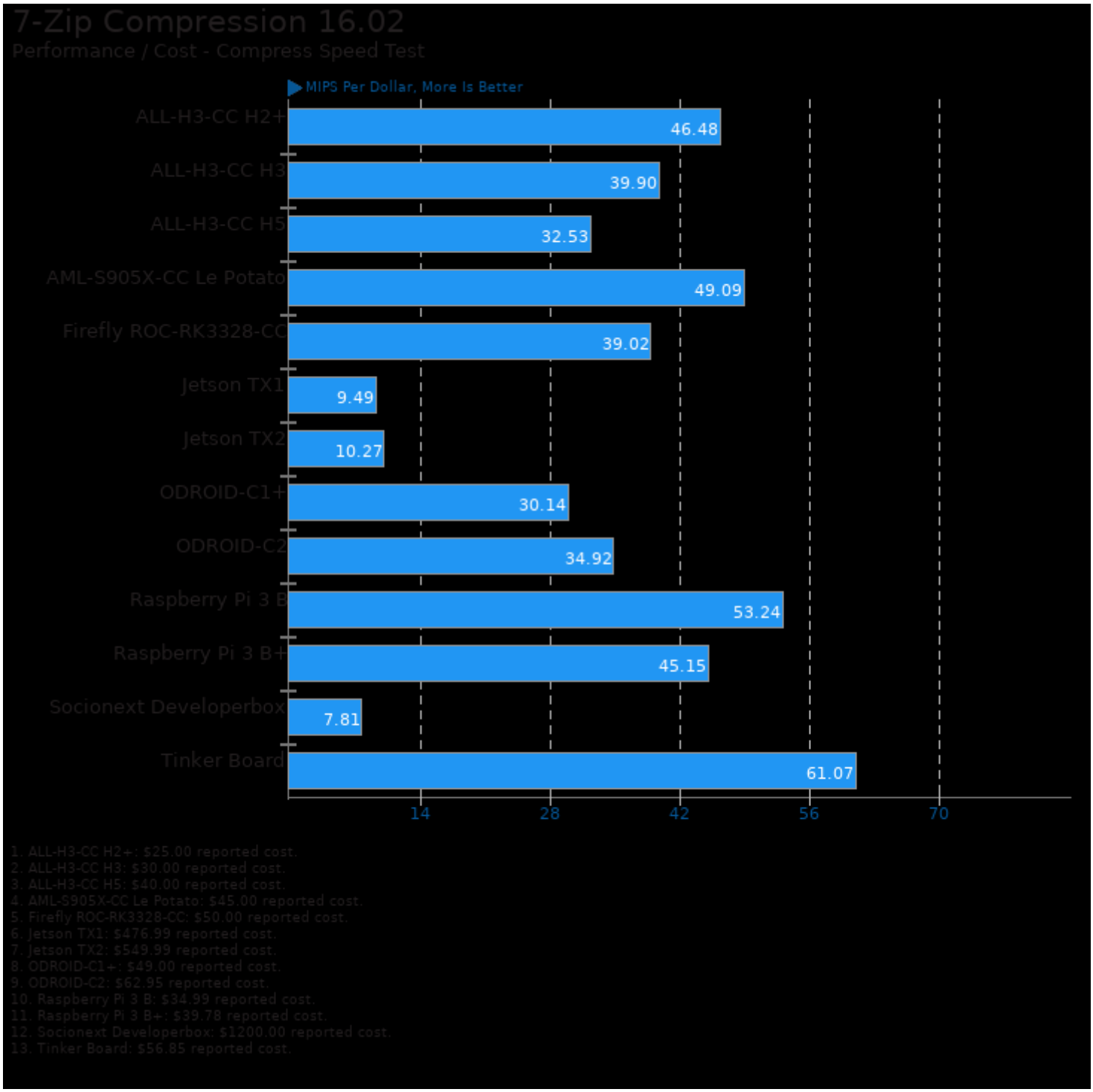
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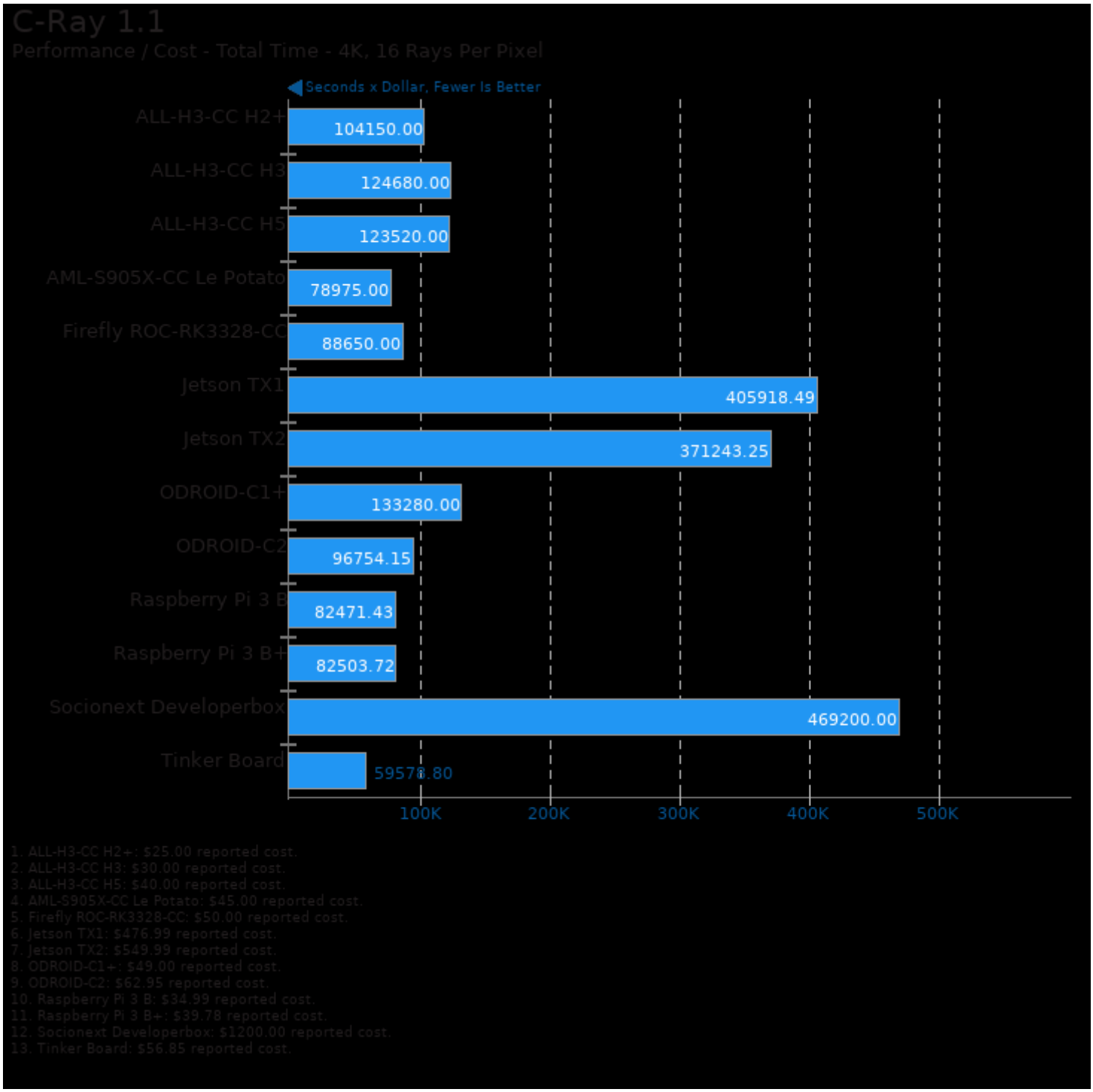
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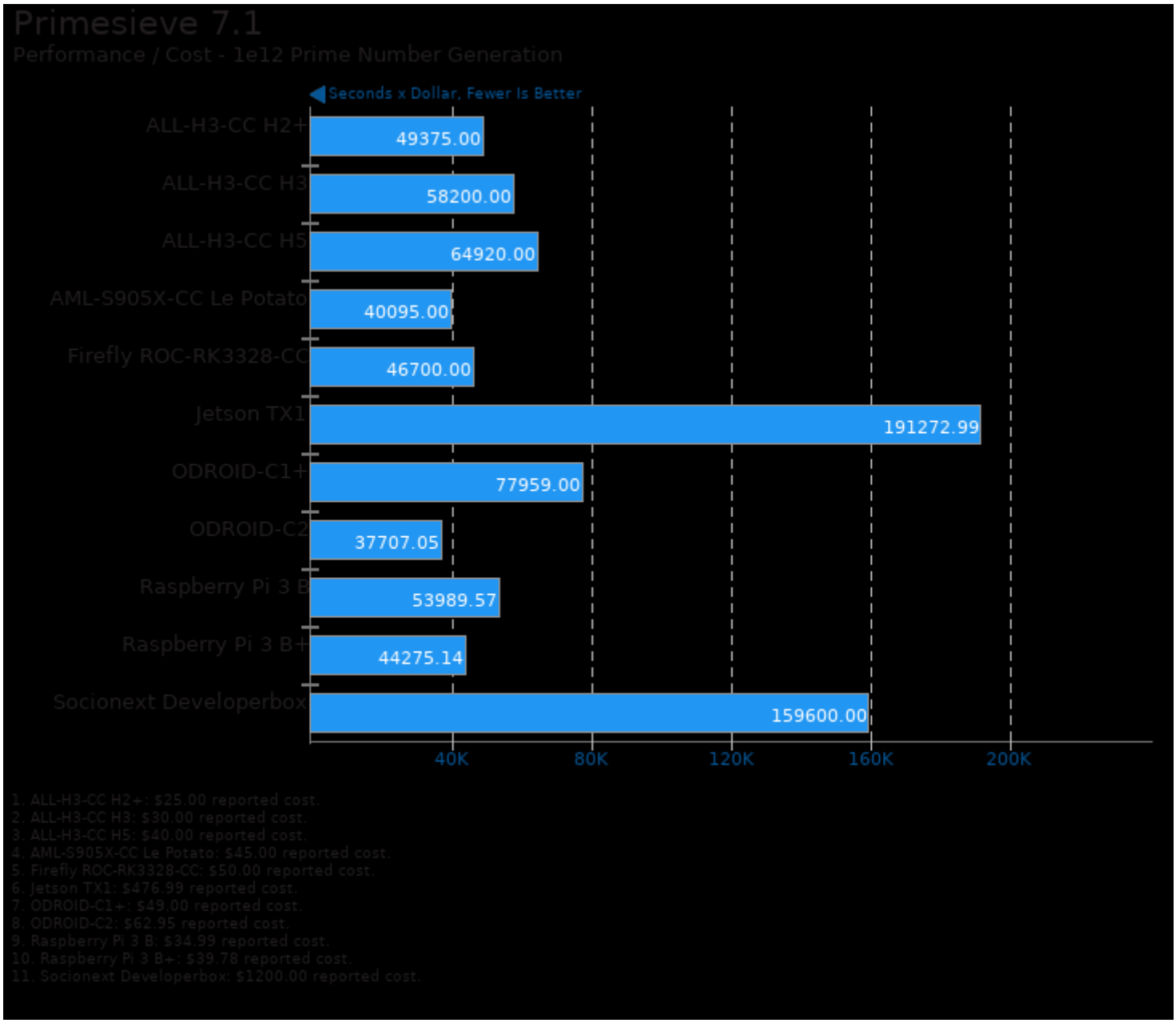
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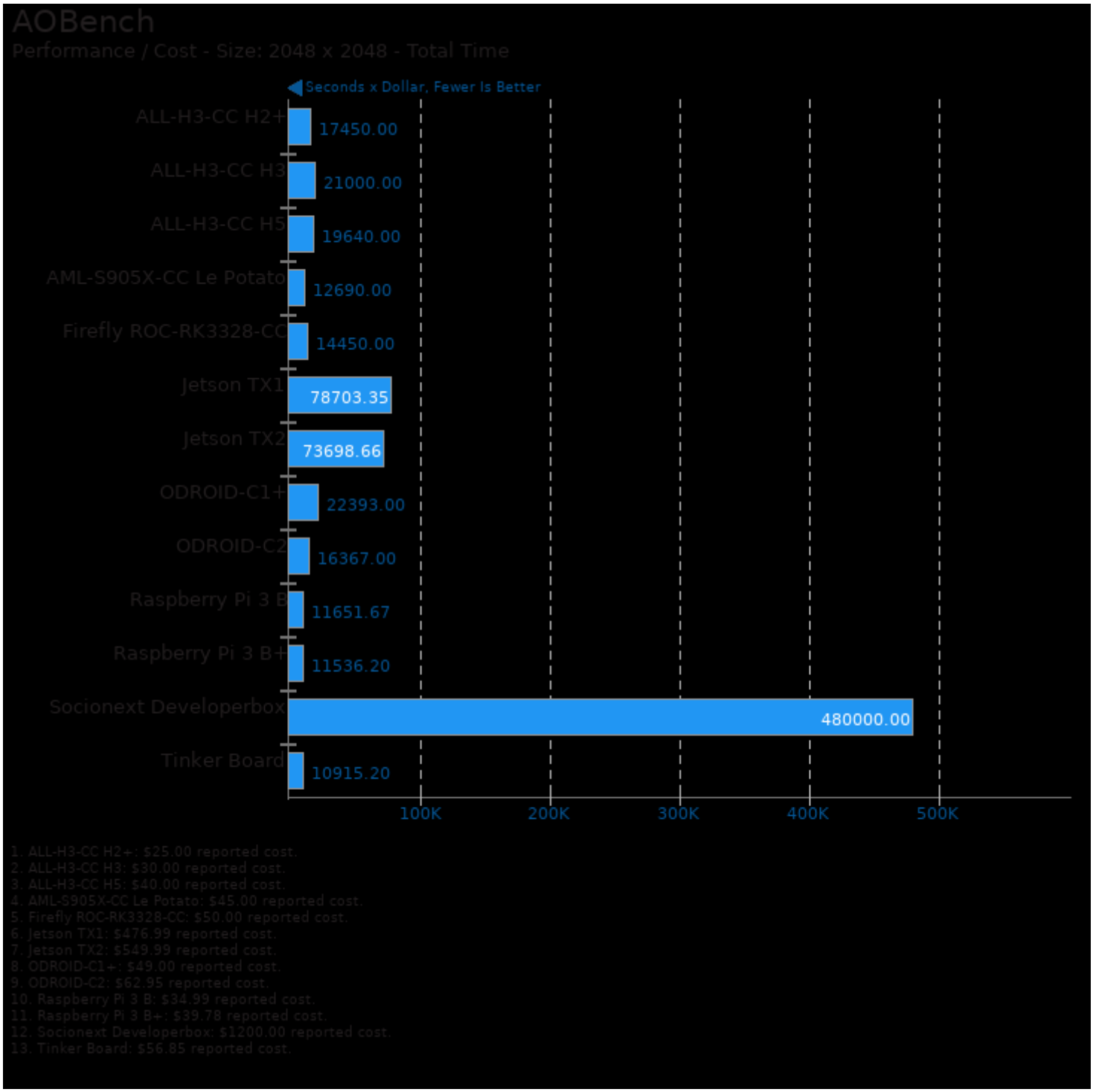
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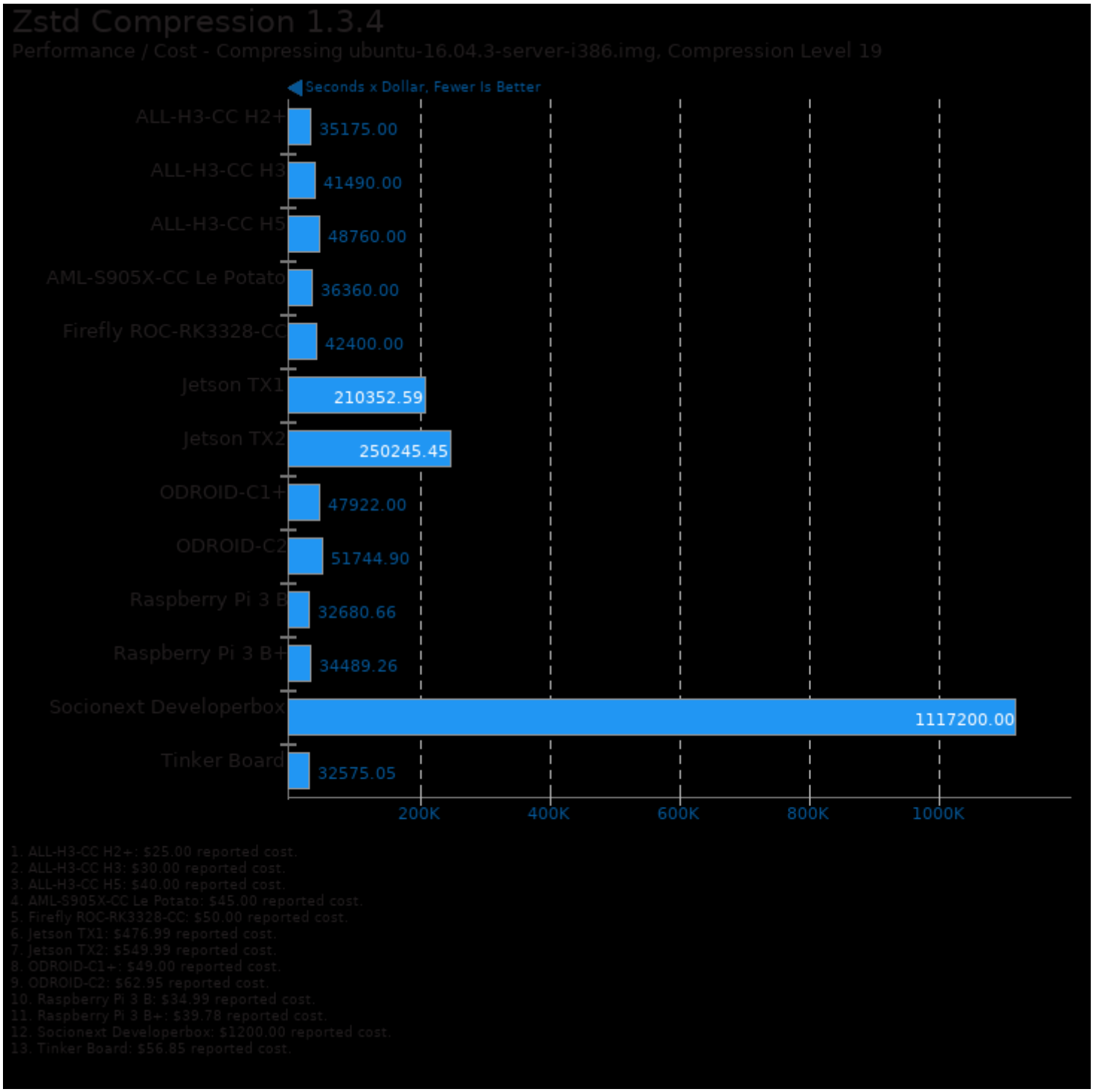
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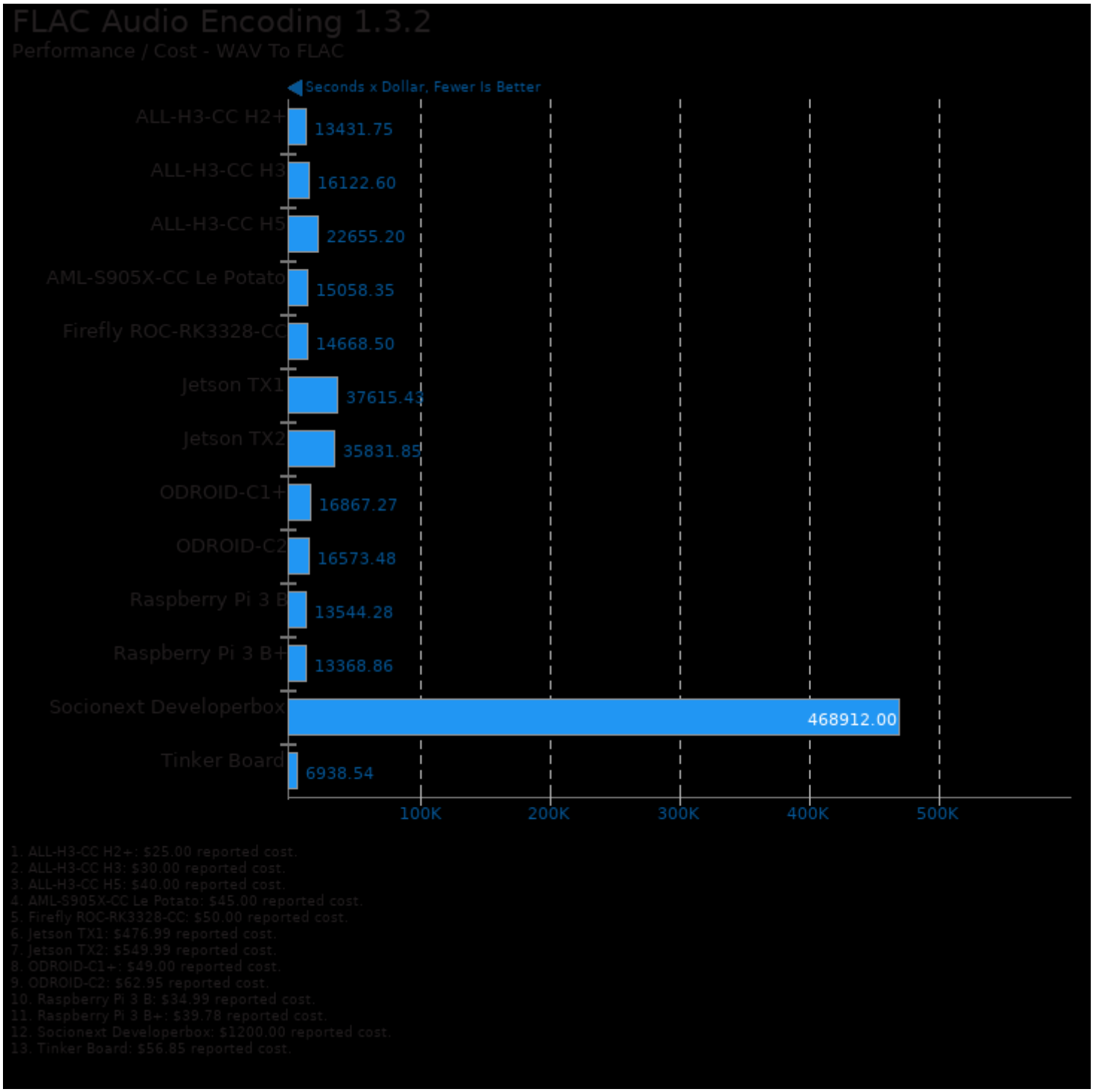
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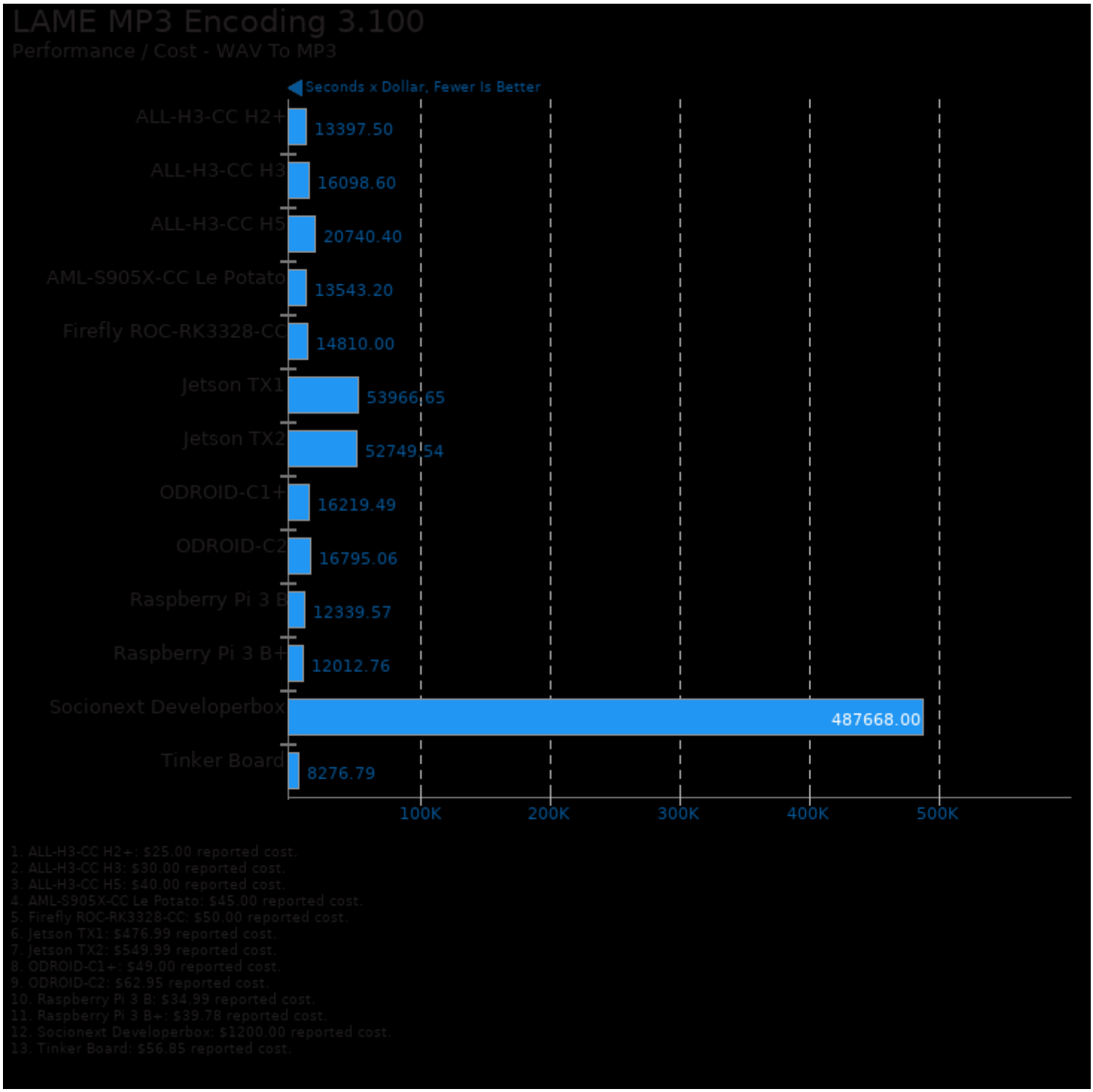
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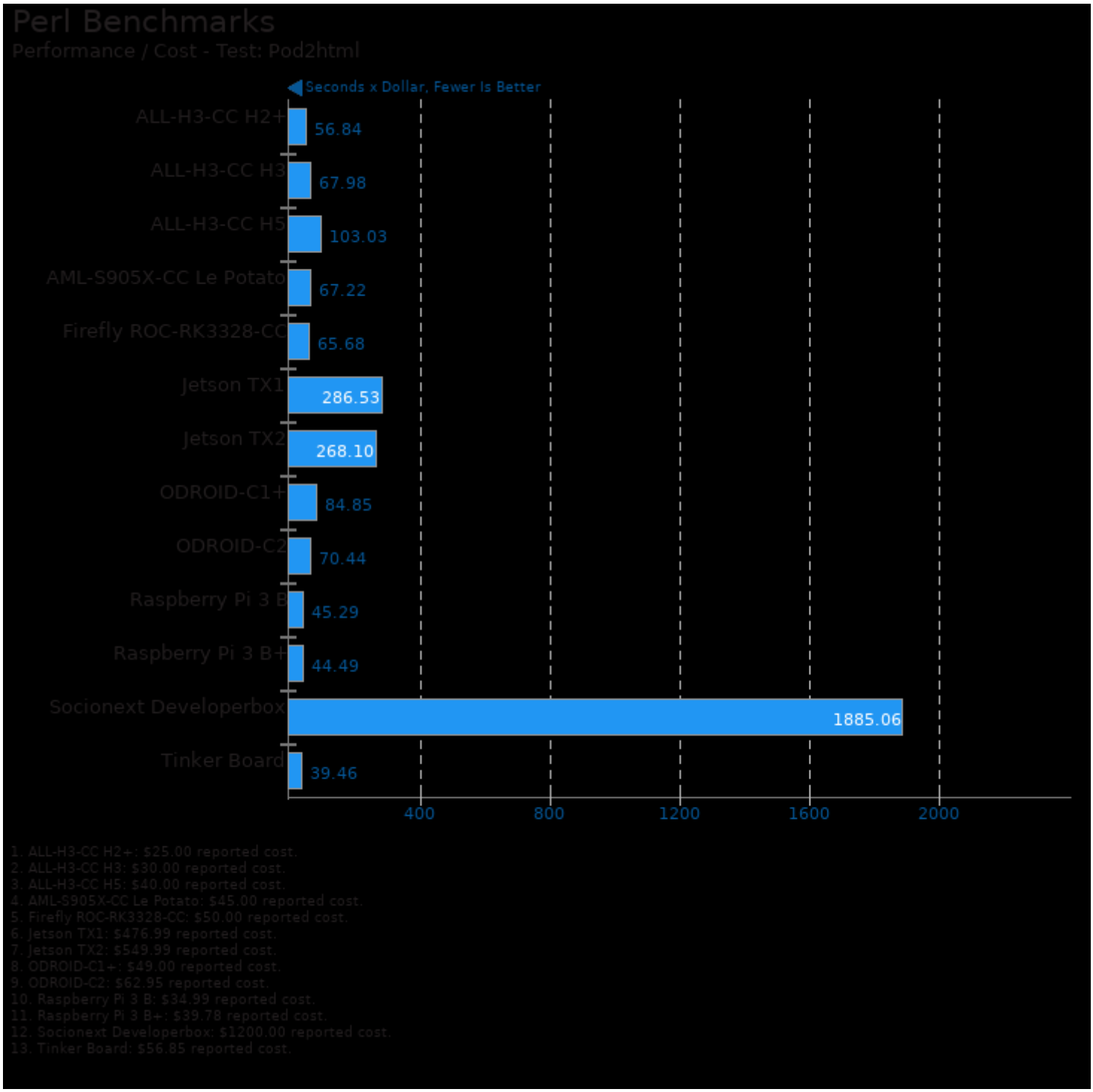
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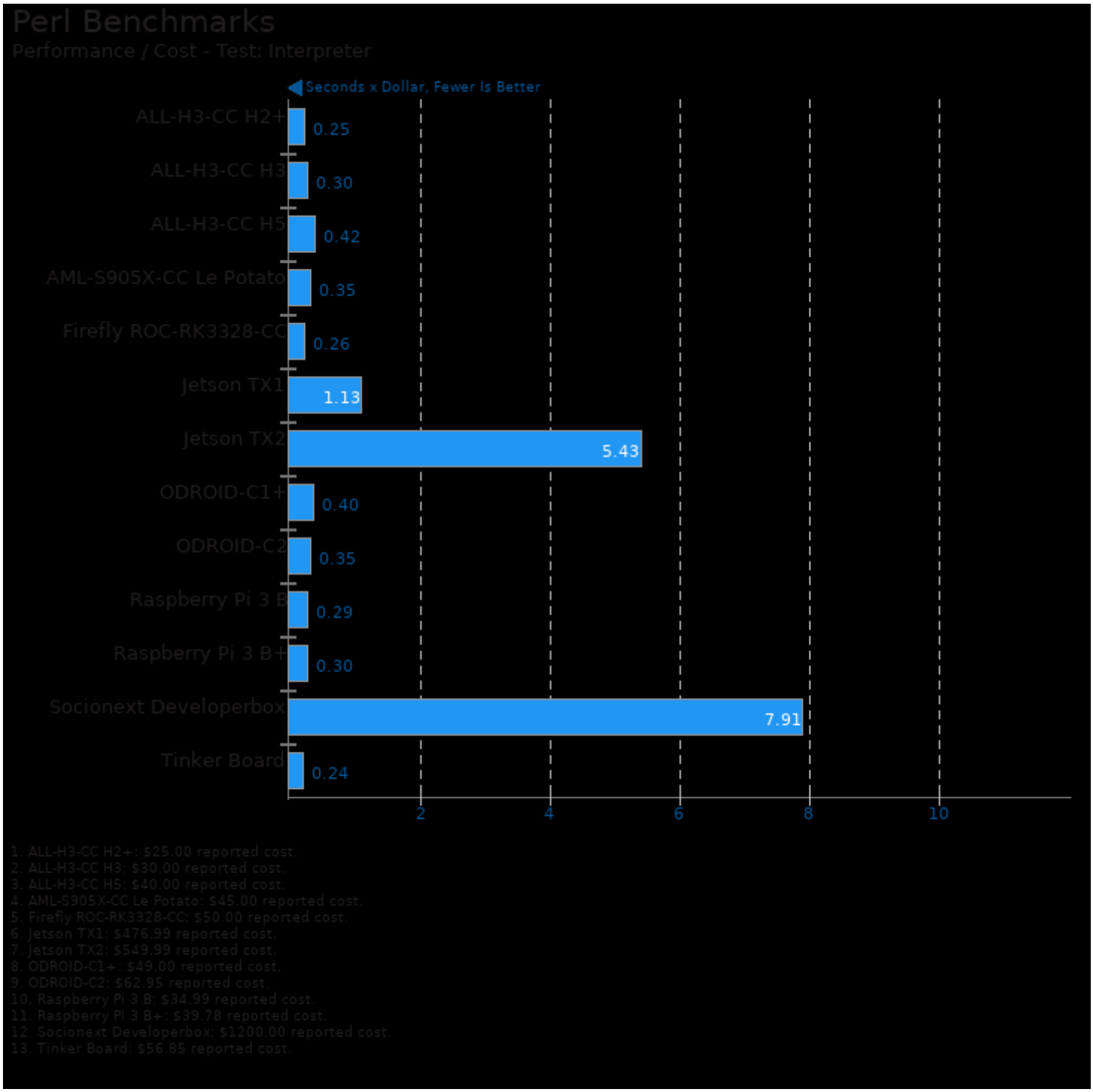
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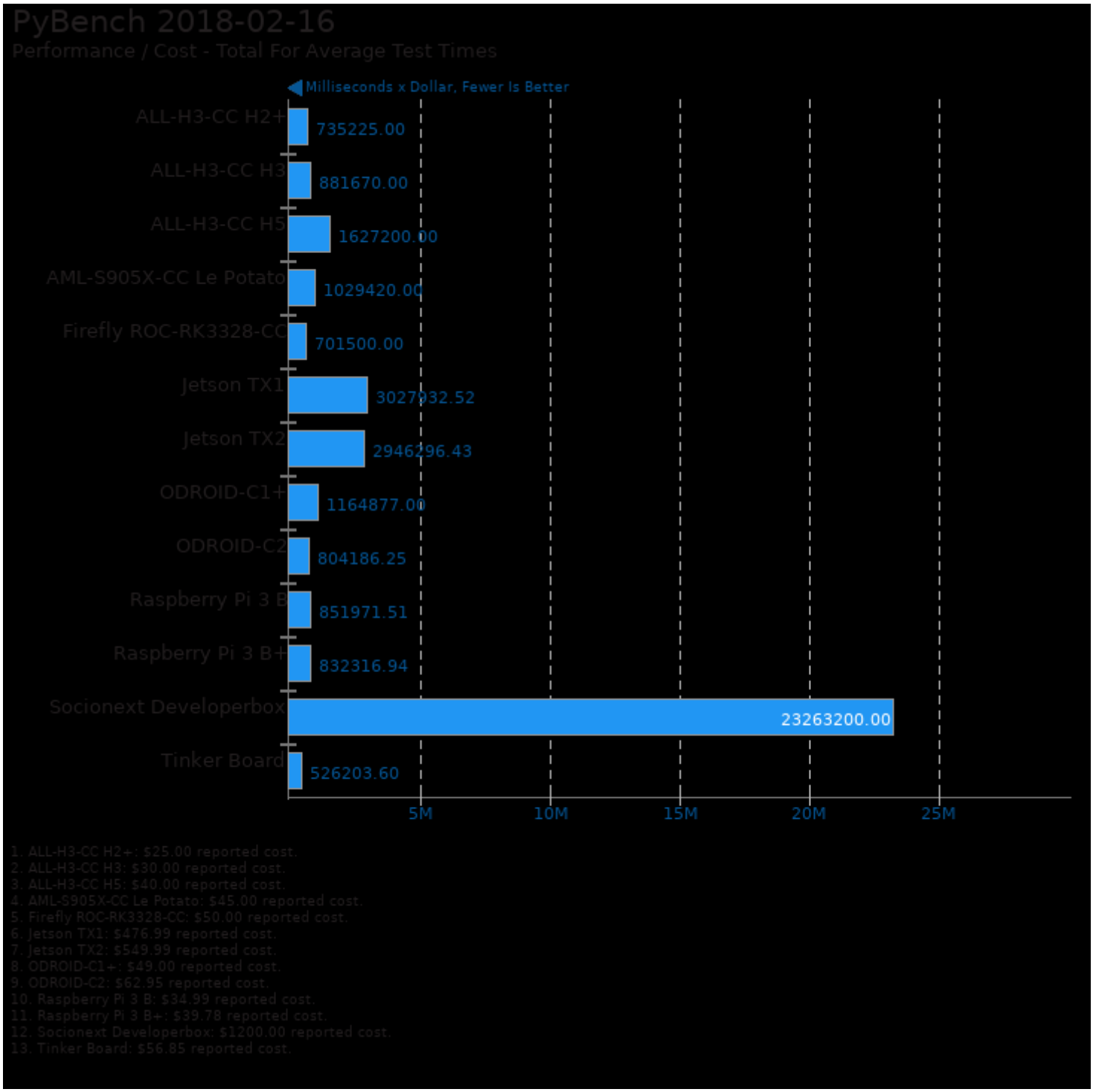
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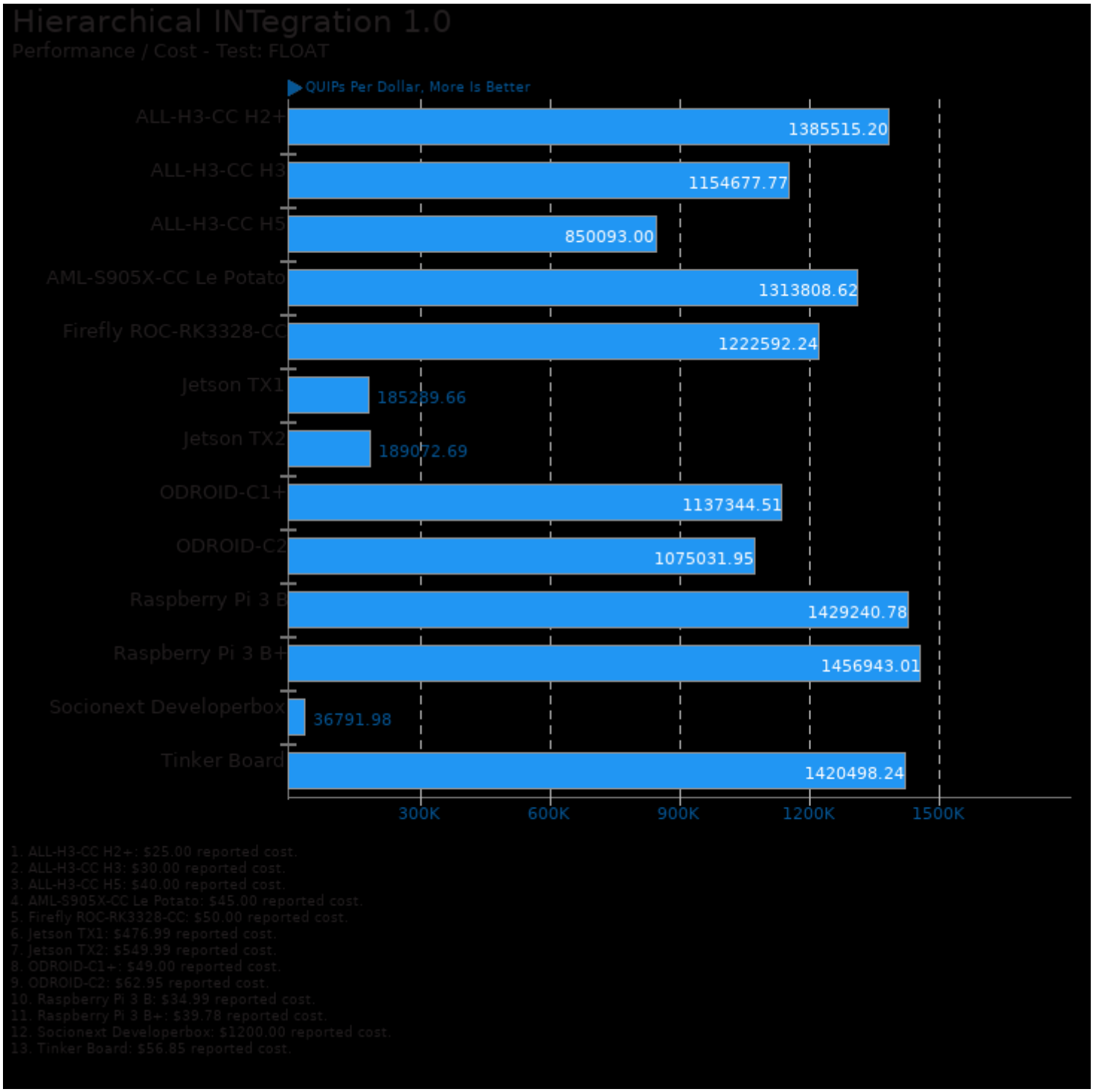
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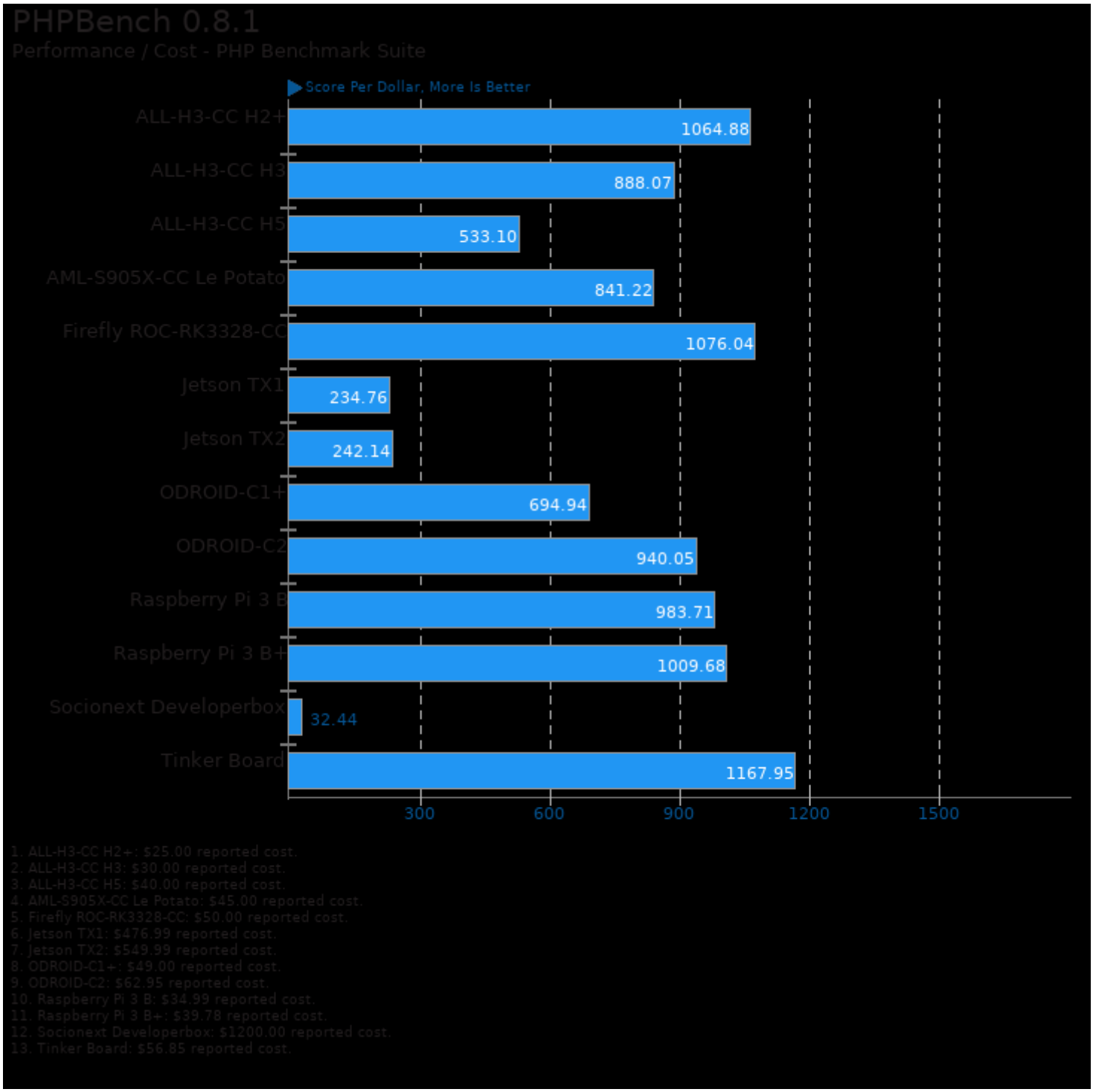
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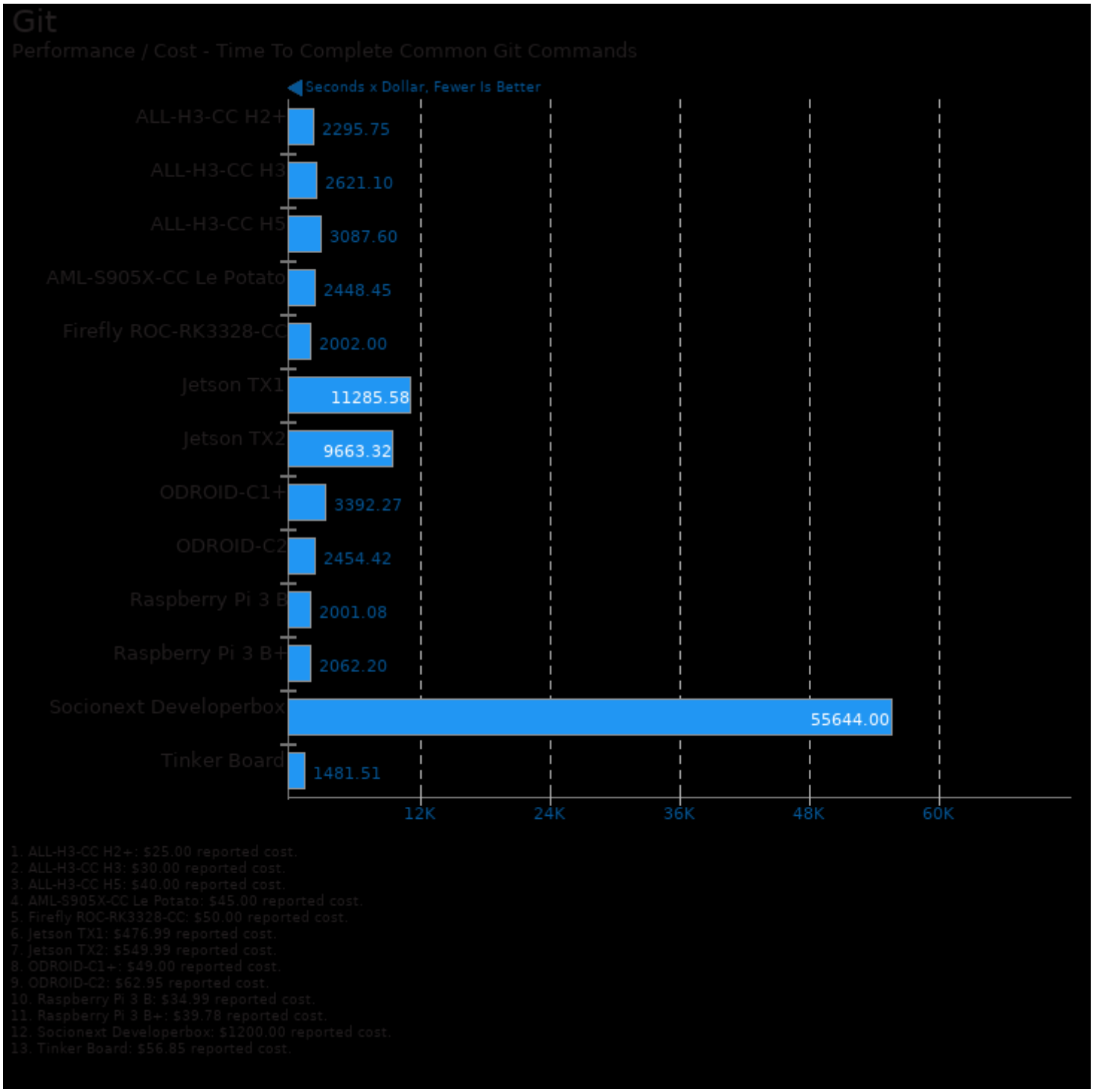
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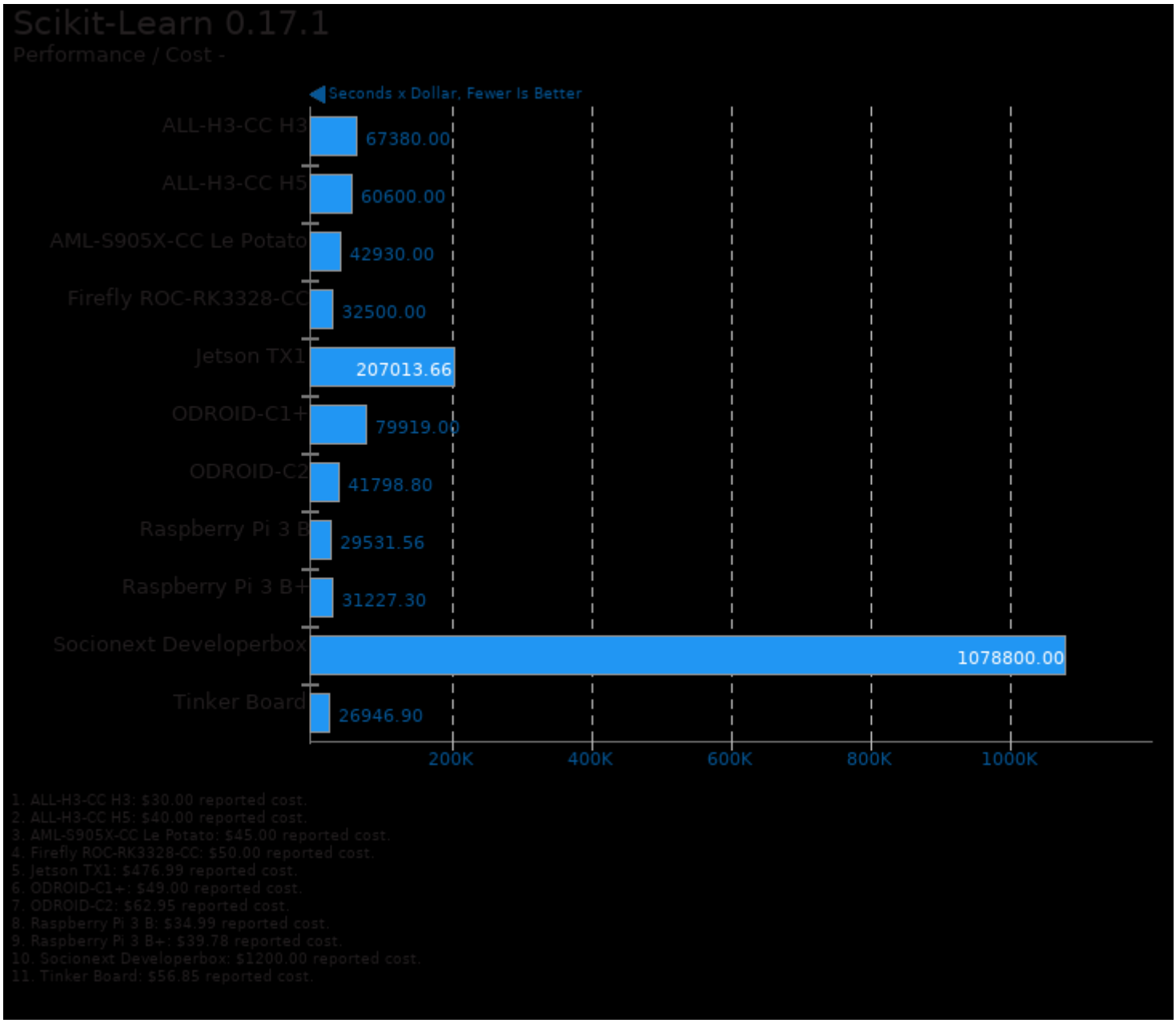
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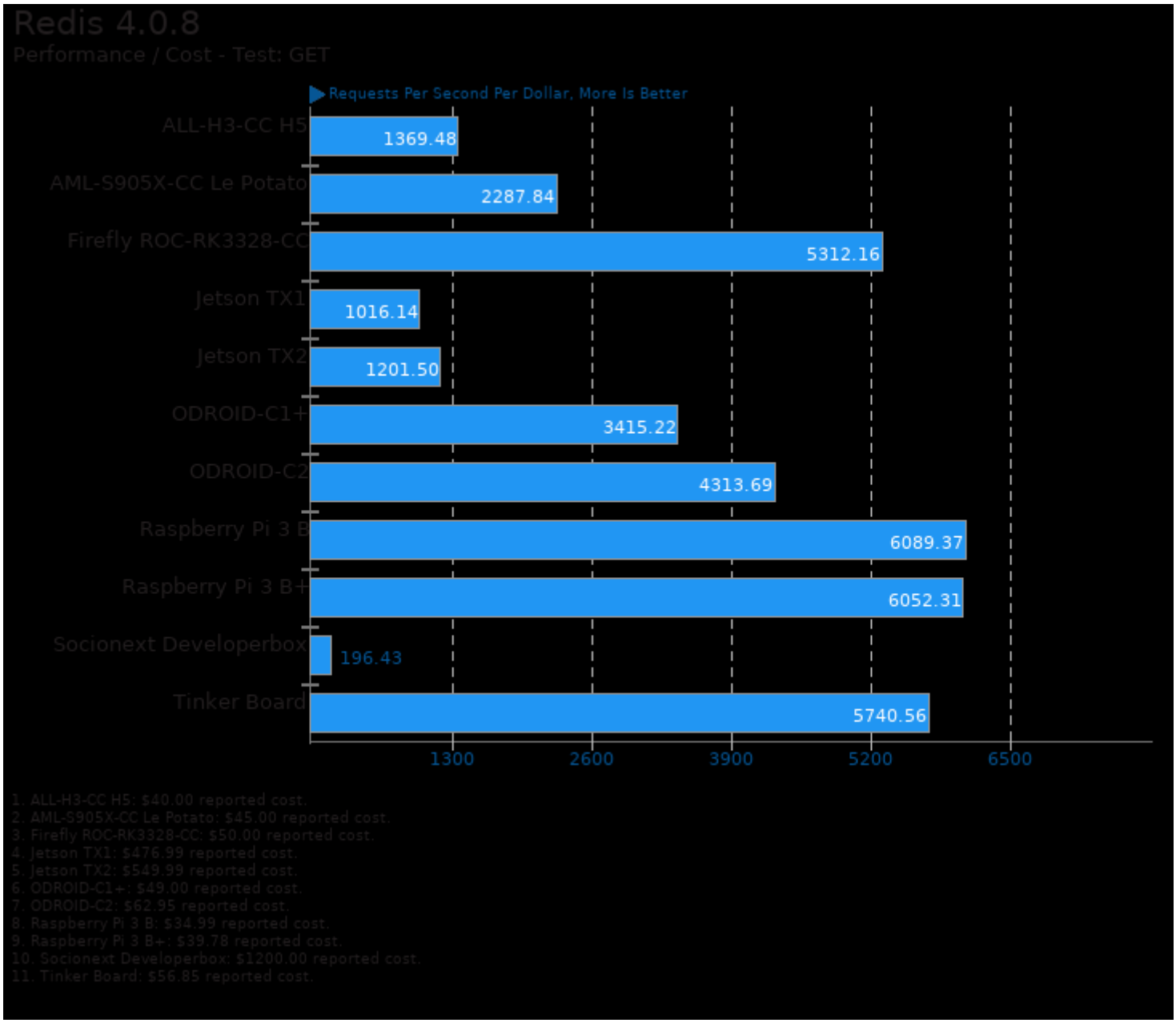
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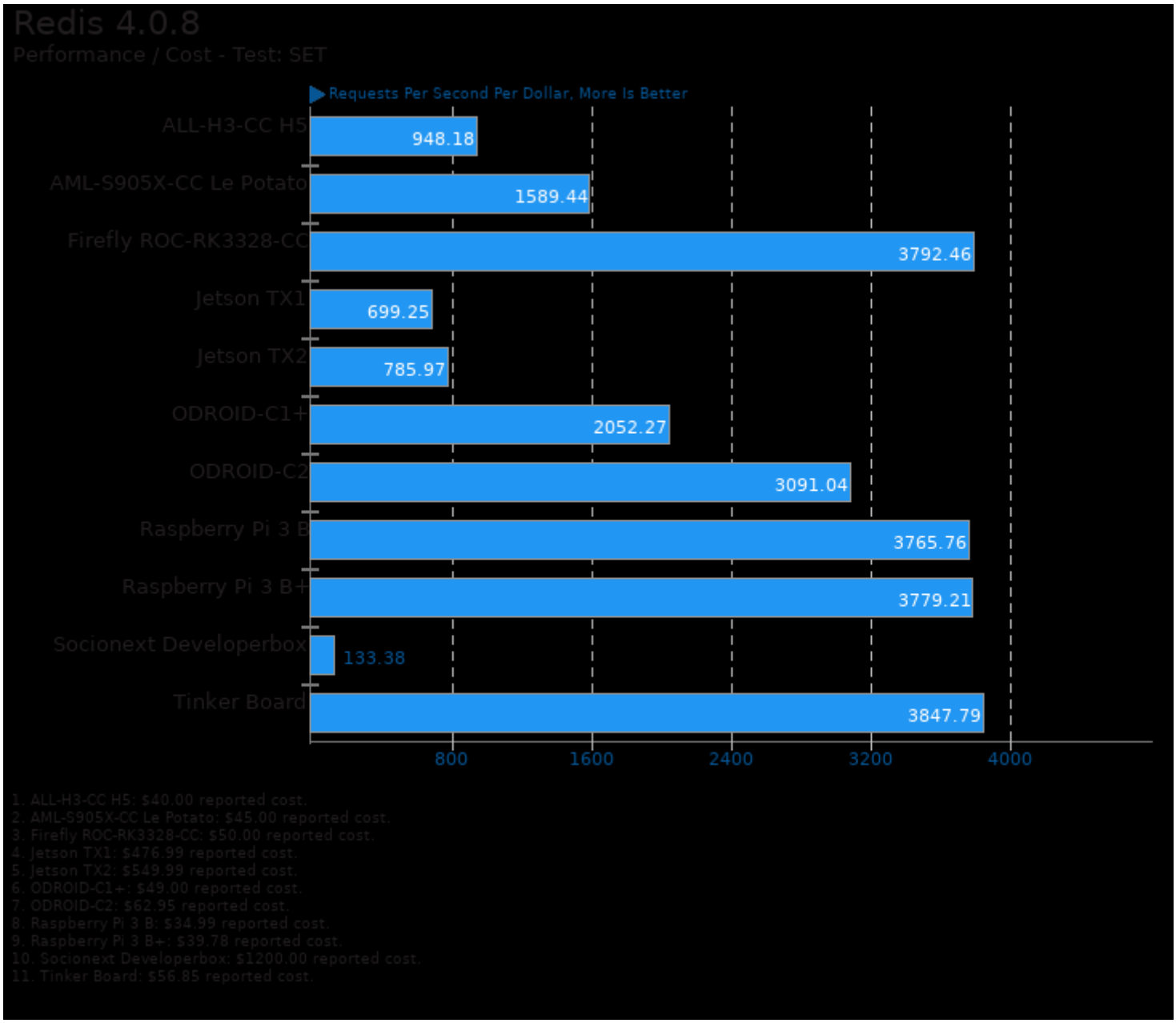
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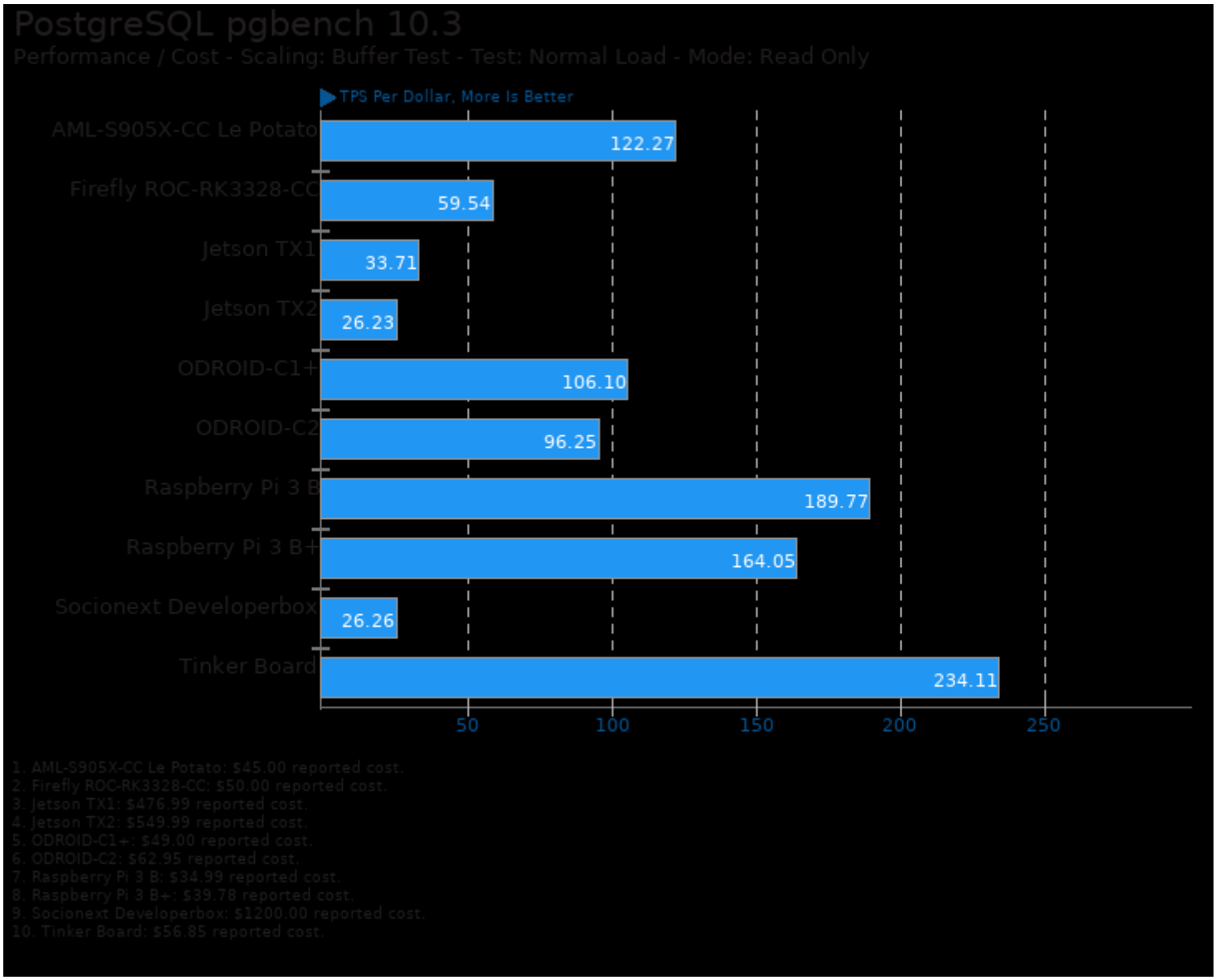
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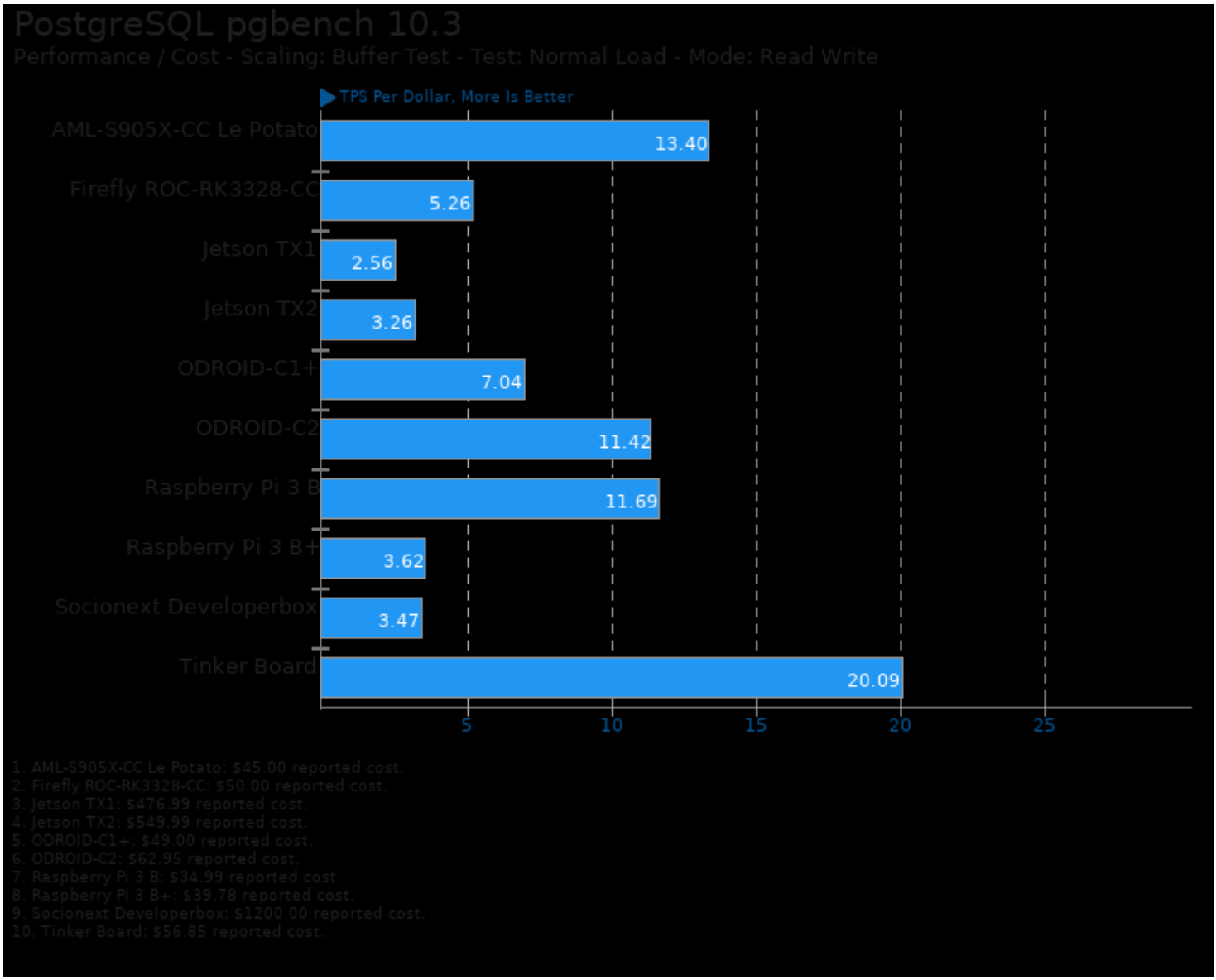
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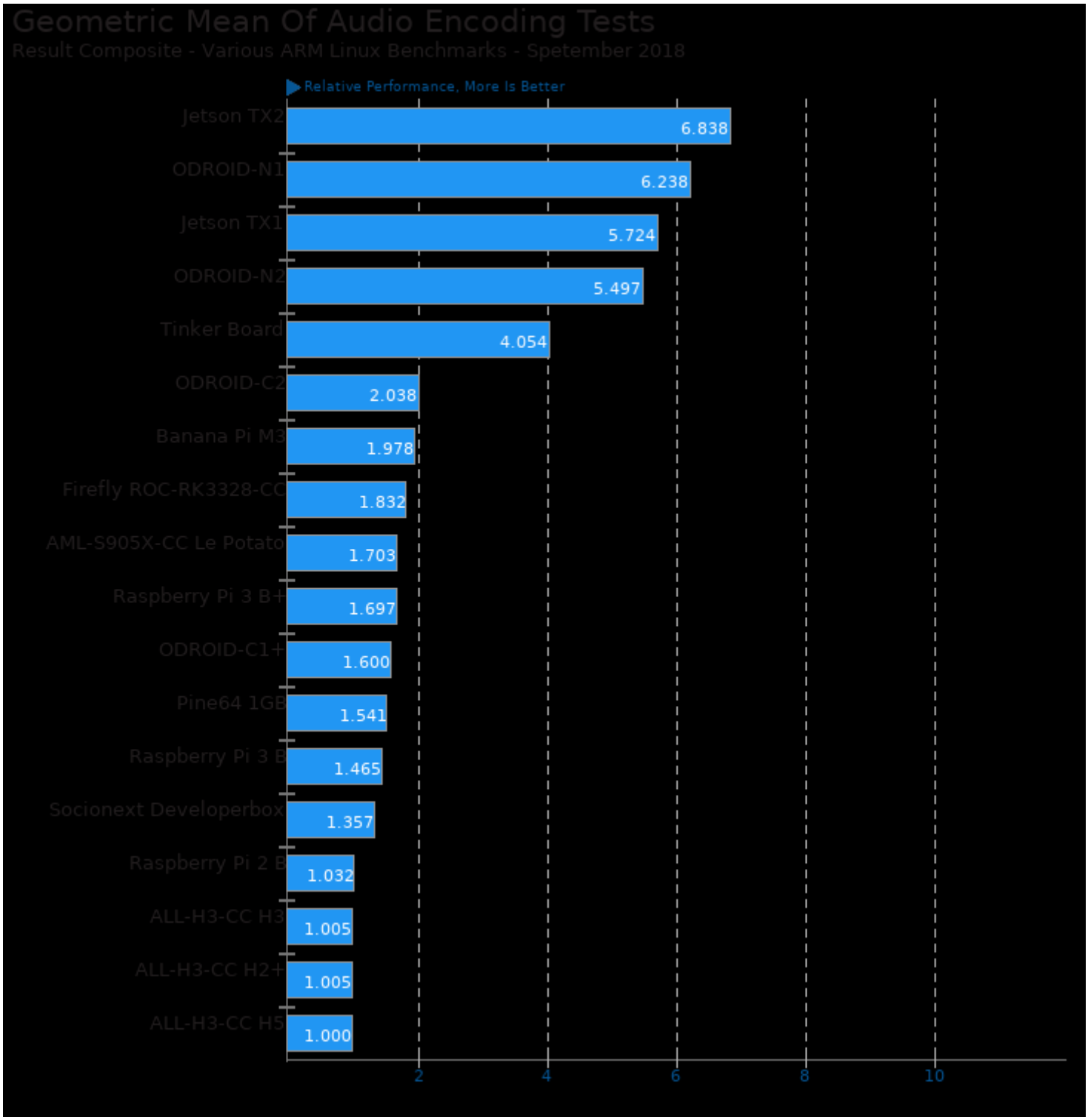


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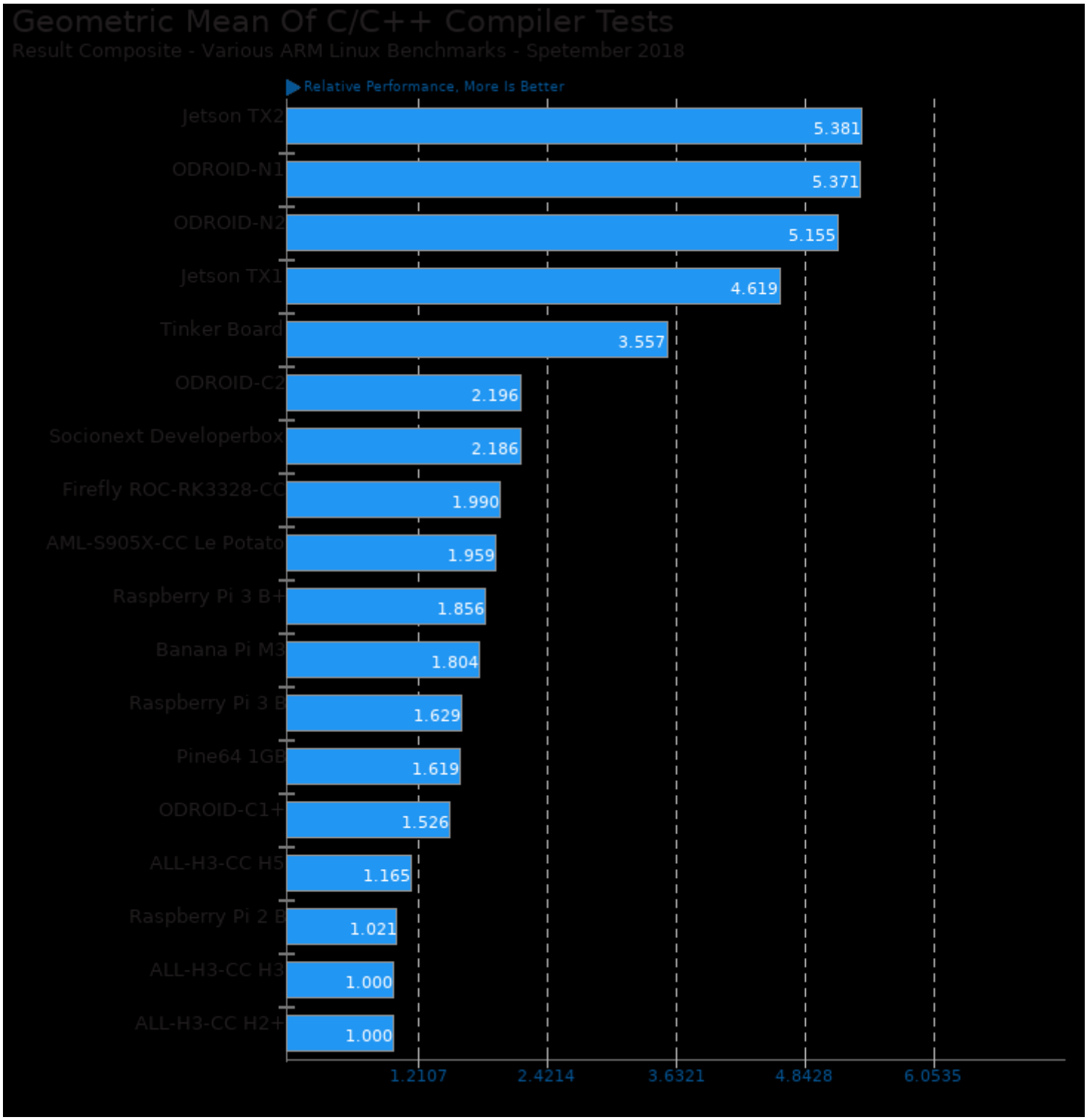
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These geometric means are based upon test groupings / test suites for this result file.



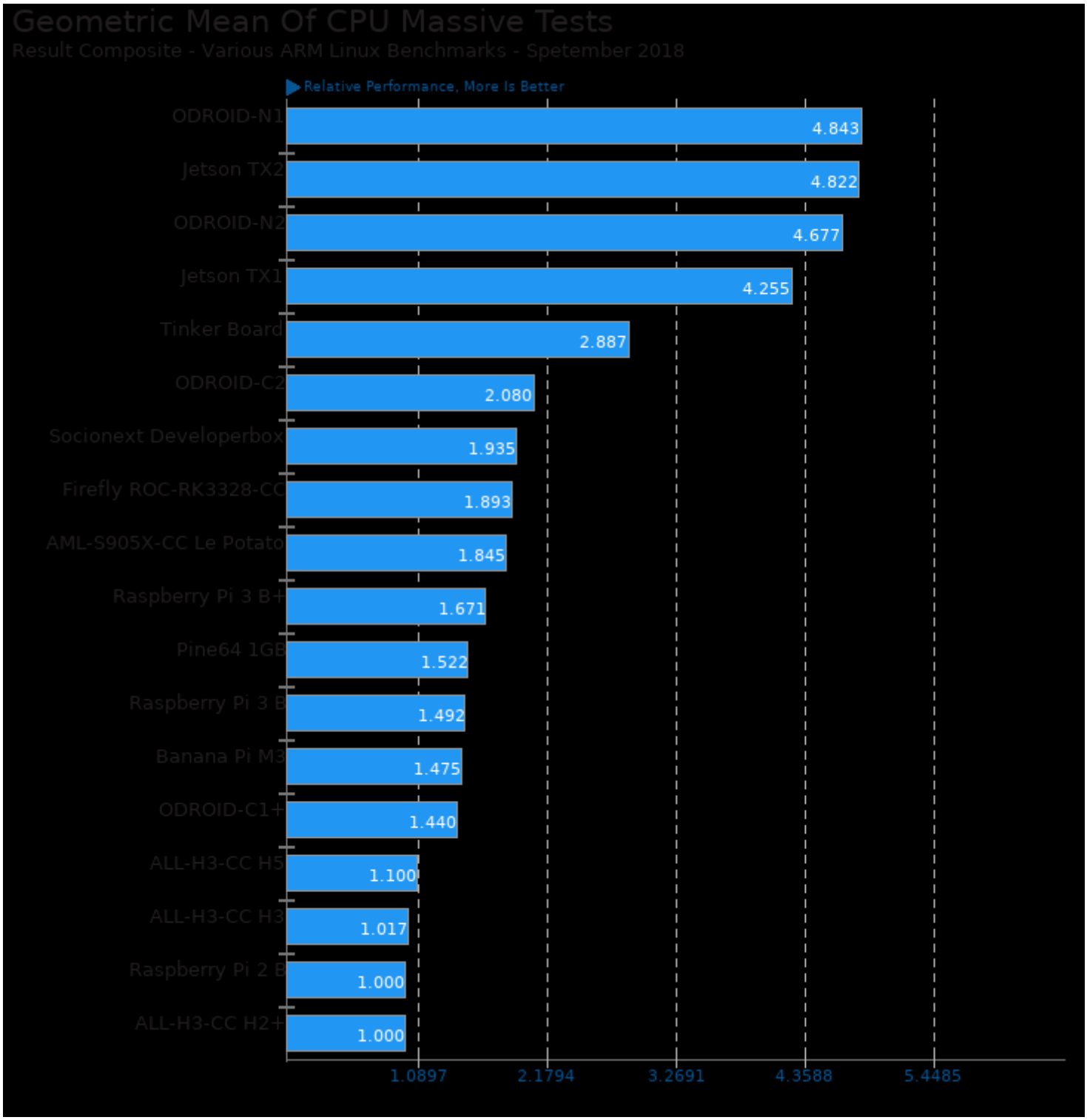
Geometric mean based upon tests: pts/encode-mp3 and pts/encode-flac

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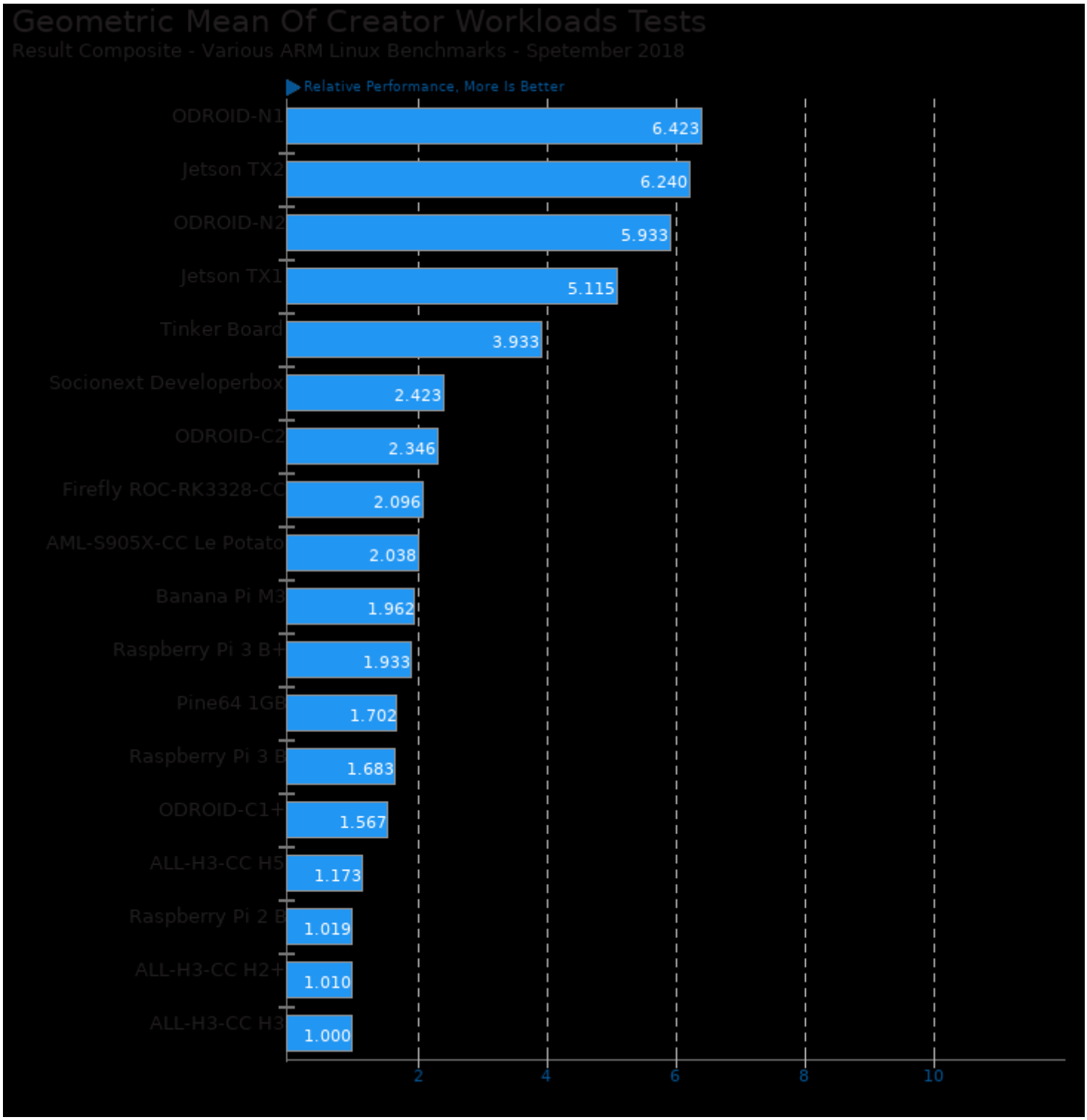
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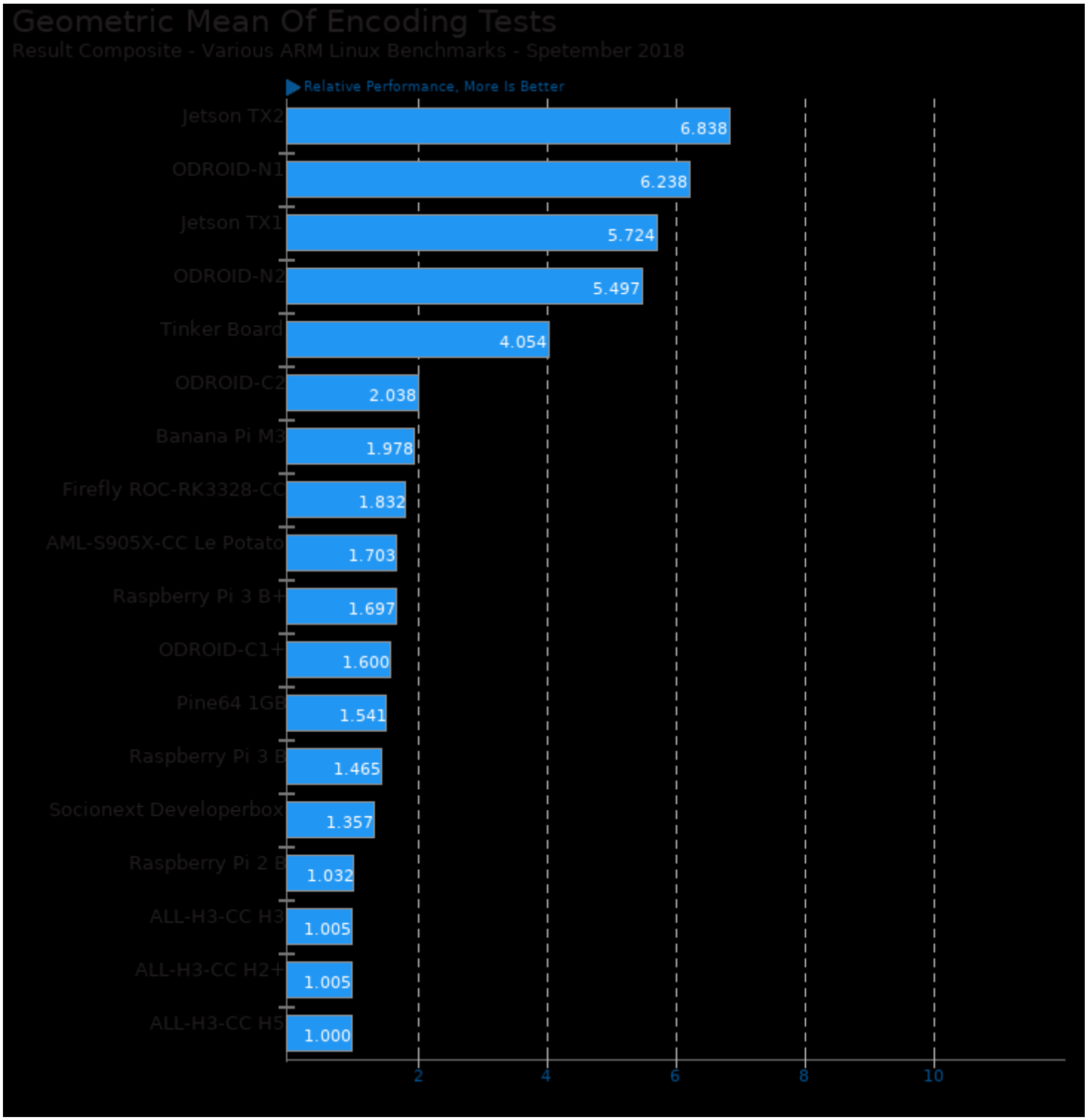
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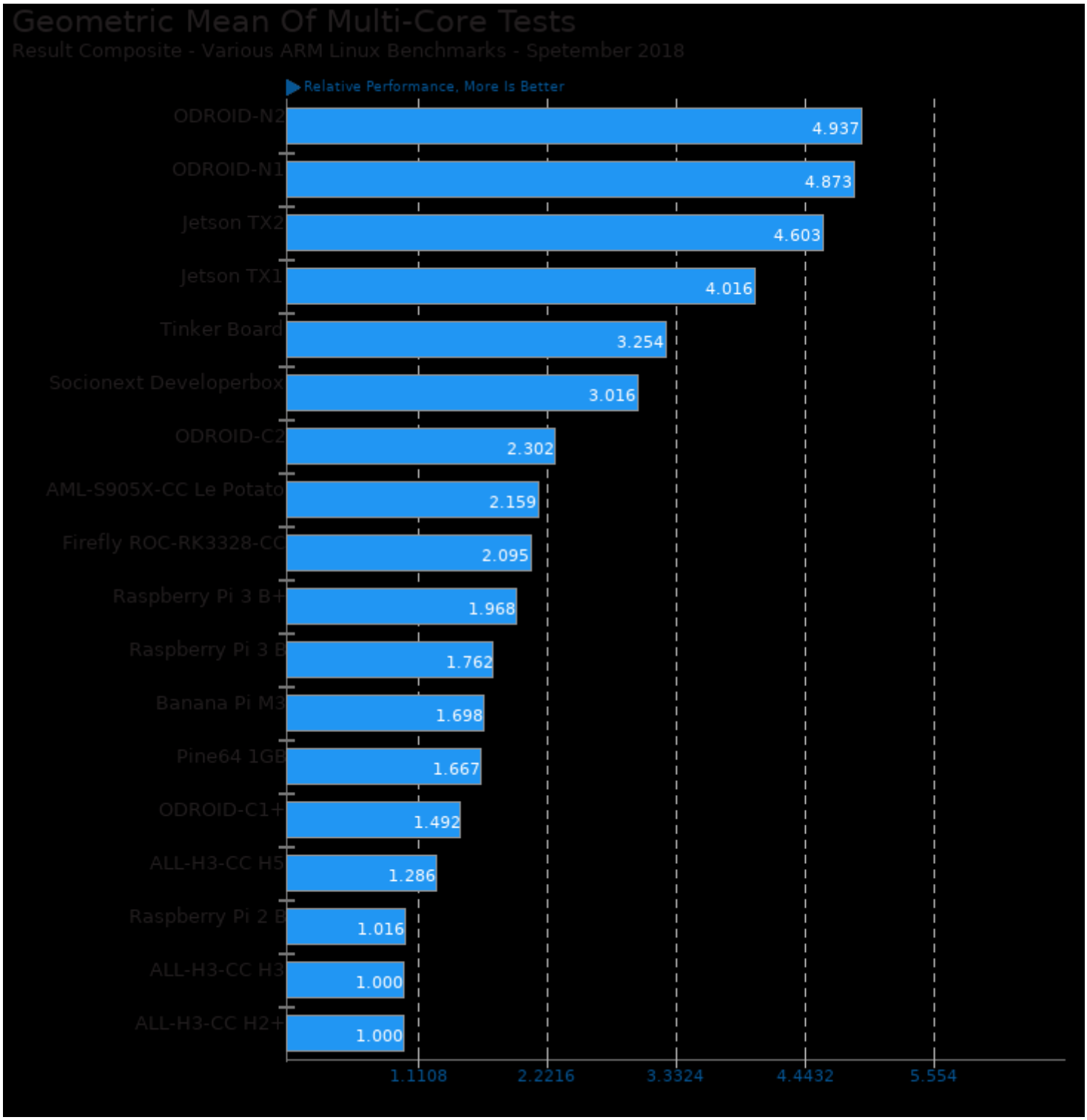
Geometric mean based upon tests: pts/c-ray, pts/aobench, pts/ttsiod-renderer, pts/x264, pts/encode-mp3 and pts/encode-flac

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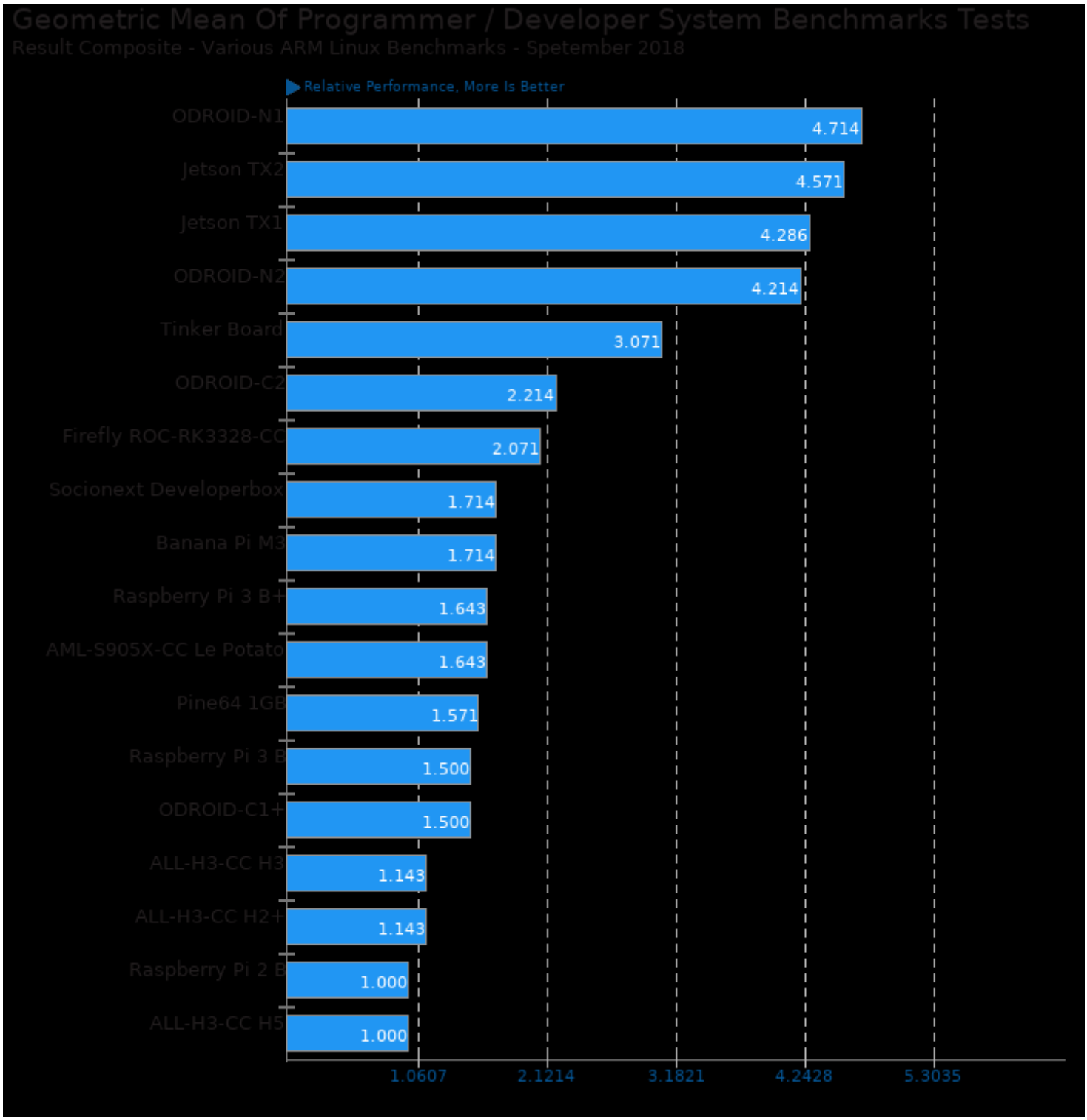
Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/x264

Various ARM Linux Benchmarks - Spetember 2018



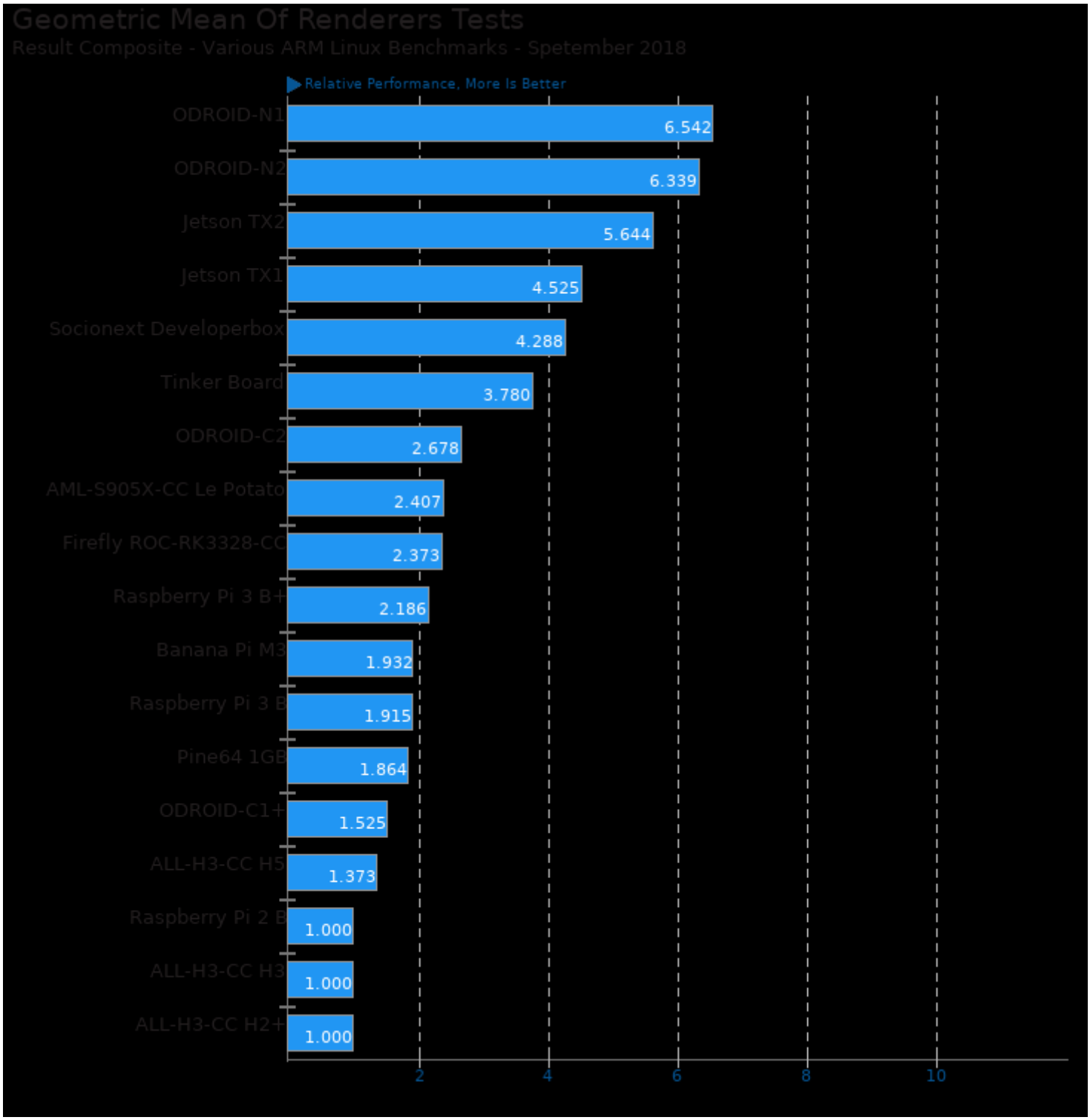
Geometric mean based upon tests: pts/c-ray, pts/x264, pts/primesieve, pts/compress-7zip, pts/compress-zstd, pts/aobench, pts/ttsiod-renderer and pts/pgbench

Various ARM Linux Benchmarks - Spetember 2018



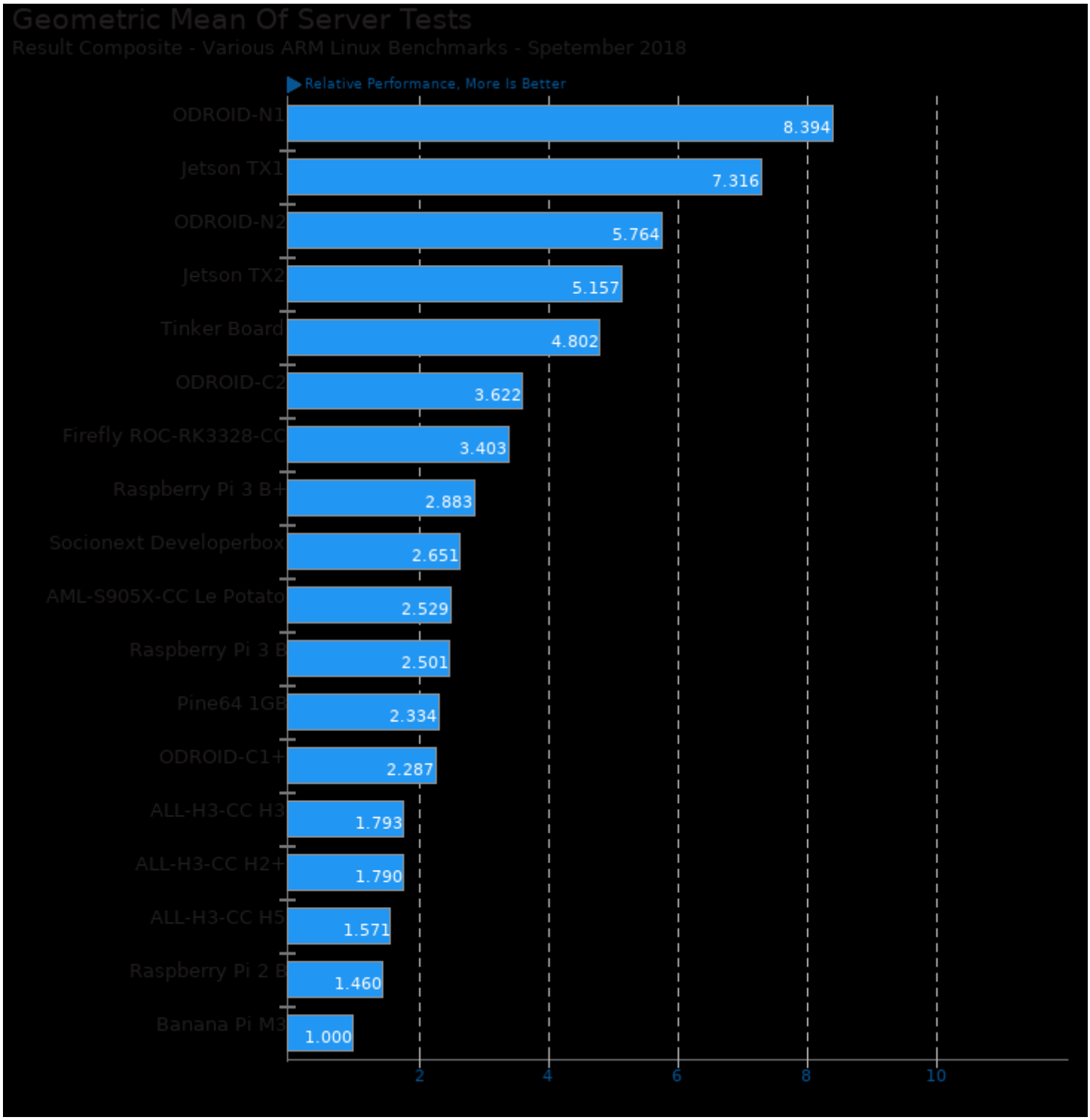
Geometric mean based upon tests: pts/git, pts/compress-zstd and pts/pybench

Various ARM Linux Benchmarks - Spetember 2018



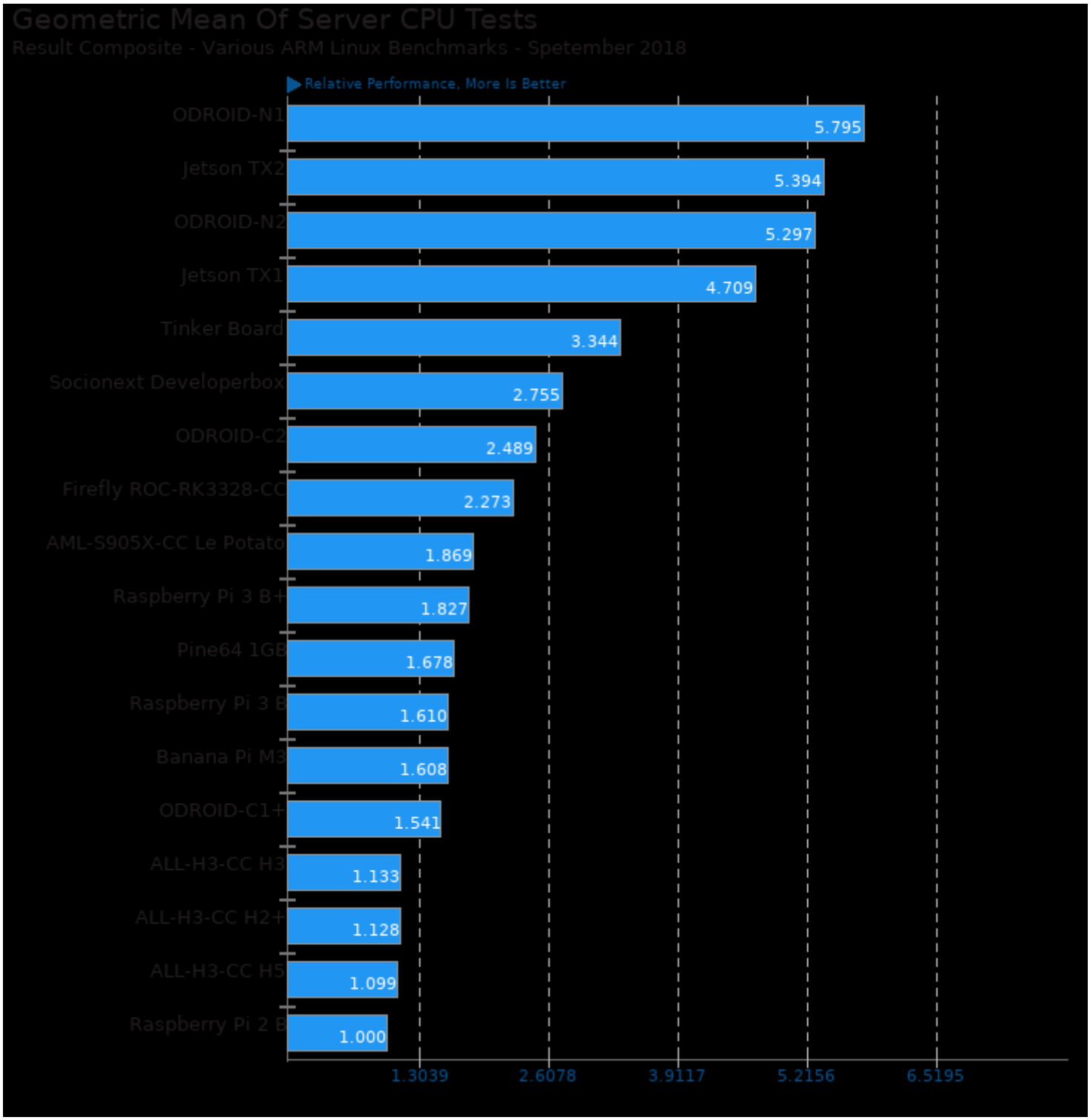
Geometric mean based upon tests: pts/c-ray, pts/aobench and pts/ttsiod-renderer

Various ARM Linux Benchmarks - Spetember 2018



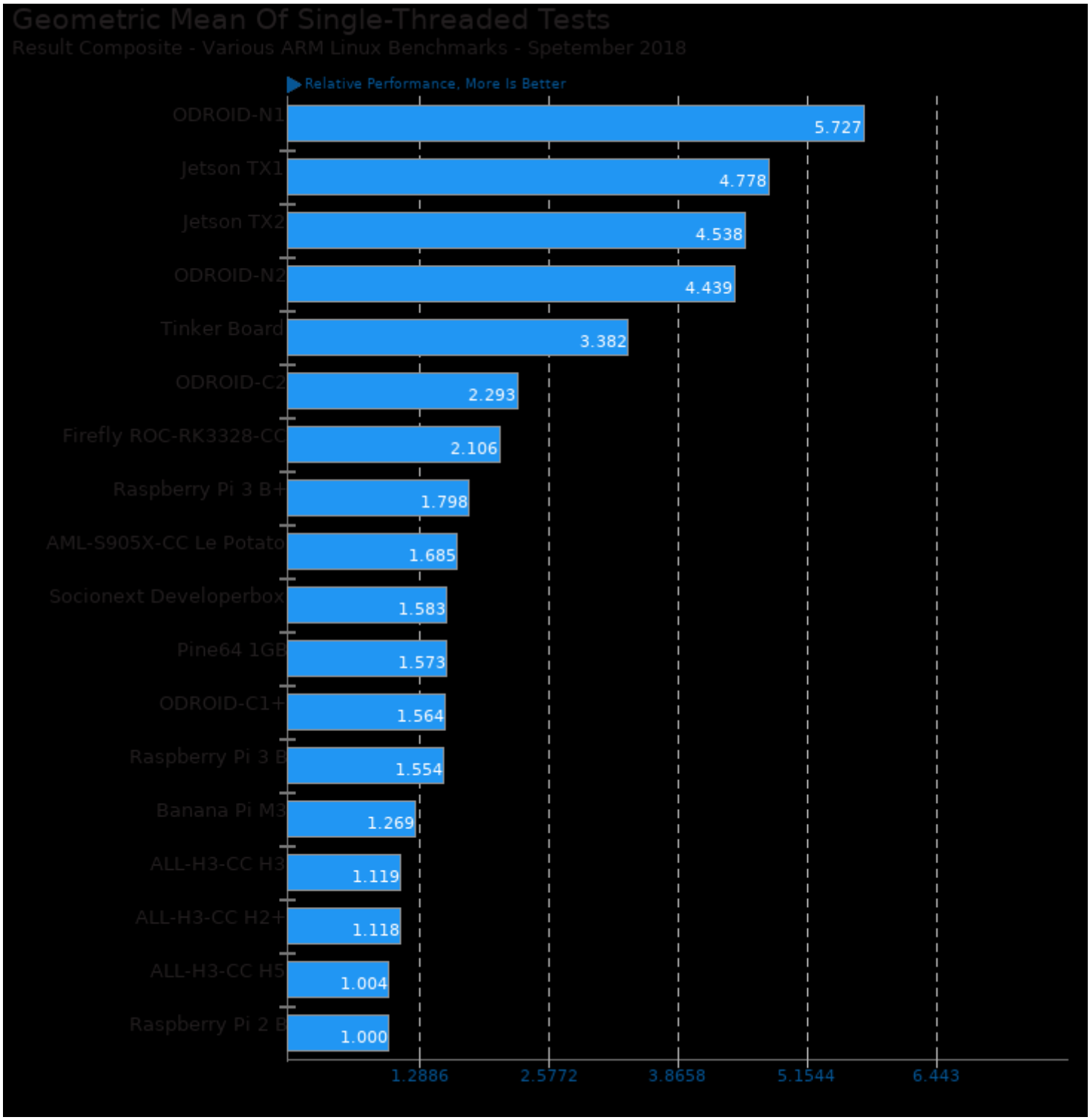
Geometric mean based upon tests: pts/pgbench, pts/redis, pts/phpbench and pts/perl-benchmark

Various ARM Linux Benchmarks - Spetember 2018



Geometric mean based upon tests: pts/x264, pts/compress-7zip, pts/c-ray, pts/compress-zstd, pts/redis, pts/pybench, pts/phpbench and pts/scikit-learn

Various ARM Linux Benchmarks - Spetember 2018



Geometric mean based upon tests: pts/encode-flac, pts/encode-mp3, pts/perl-benchmark, pts/redis, pts/pybench, pts/phpbench, pts/hint and pts/git

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