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UP Board Linux Benchmark Comparison

UP Xtreme i7 4GB Benchmarks comparison for a future article on up-community.org

Test Systems:

UP2 N4200 4GB

Processor: Intel Pentium N4200 @ 2.50GHz (4 Cores), Motherboard: AAEON UP-APL01, Chipset: Intel Atom/Celeron/Pentium, Memory: 4 x 1024 MB DDR3 Unde, Disk: 31GB M52532, Graphics: Intel HD (Broxton) 3072MB, Audio: Intel Atom/Celeron/Pentium, Monitor: LP2151, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.10, Kernel: 4.8.0-30-generic (x86_64), Desktop: Unity 7.5.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.3 Mesa 12.0.3, Compiler: GCC 6.2.0 20161005, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-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-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v

Processor Notes: Scaling Governor: intel_pstate powersave

Up Board 2GB

Processor: Intel Atom x5-Z8350 @ 1.92GHz (4 Cores), Motherboard: AAEON UP-CHT01, Chipset: Intel Device 2280, Memory: 1 x 2048 MB DDR3-1600MHz 00000000, Disk: 16GB M52516, Graphics: Intel Device 22b0 (500MHz), Monitor: SAMSUNG, Network: Realtek RTL8111/8168/8411

OS: ubilinux 3.0, Kernel: 4.4.0-ubi3-amd64 (x86_64), Desktop: LXDE 0.7.2, Display Server: X Server 1.16.4, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 10.3.2, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1920x1080

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: intel_pstate powersave

Raspberry Pi 3

Processor: ARMv7 rev 4 @ 1.20GHz (4 Cores), Motherboard: BCM2709 Raspberry Pi 3 Model B Rev 1.2, Memory: 925MB, Disk: 16GB SD16G, Graphics: LLVMpipe

OS: Raspbian 8.0, Kernel: 4.1.18-v7+ (armv7l), Desktop: LXDE 0.7.2, Display Server: X Server 1.17.2, OpenGL: 3.0 Mesa 11.1.0 Gallium 0.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1824x984

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: BCM2835 Freq ondemand

Raspberry Pi 2

Processor: ARMv7 rev 5 @ 0.90GHz (4 Cores), Motherboard: BCM2709 Raspberry Pi 2 Model B Rev 1.1, Memory: 925MB, Disk: 8GB SD

OS: Raspbian 8.0, Kernel: 4.1.13-v7+ (armv7l), Desktop: LXDE 0.7.2, Display Server: X Server 1.16.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1824x984

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: BCM2835 Freq ondemand

Raspberry Pi Zero

Processor: ARMv6-compatible rev 7 @ 1.00GHz (1 Core), Motherboard: BCM2708 Raspberry Pi ? Rev 1.2, Memory: 434MB, Disk: 8GB SL08G

OS: Raspbian 8.0, Kernel: 4.1.13+ (armv6l), Desktop: LXDE 0.7.2, Display Server: X Server 1.16.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1776x952

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: BCM2835 Freq ondemand

Jetson TX1

Processor: Cortex A57 rev 1 @ 1.91GHz (4 Cores), Motherboard: jetson_tx1, Memory: 4096MB, Disk: 16GB 016G32, Graphics: NVIDIA Tegra X1 (nvgpu)/, Monitor: Acer G237HL

OS: Ubuntu 14.04, Kernel: 3.10.67-g3a5c467 (aarch64), Desktop: Unity 7.2.2, Display Server: X Server 1.15.1, Display Driver: NVIDIA 23.1.1, OpenGL: 4.3.0, Compiler: GCC 4.8.4 + Clang 3.4-1ubuntu3 + CUDA 7.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libmudflap --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,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=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv7-a --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v
Processor Notes: Scaling Governor: tegra interactive

Jetson TK1

Processor: ARMv7 rev 3 @ 2.32GHz (4 Cores), Motherboard: jetson-tk1, Memory: 2048MB, Disk: 16GB SEM16G, Graphics: GK20A/NullRM/AXI, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.10.40-gdacac96 (armv7l), Desktop: Unity 7.2.2, Display Server: X Server 1.15.1, Display Driver: NVIDIA 21.4, OpenGL: 4.3.0, Compiler: GCC 4.8.4 + CUDA 6.5, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libmudflap --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,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=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv7-a --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v
Processor Notes: Scaling Governor: tegra interactive

Banana Pi M2

Processor: ARMv7 rev 3 @ 1.01GHz (4 Cores), Motherboard: Allwinner sun6i (A31) Family Banana Pi BPI-M2, Memory: 1024MB, Disk: 8GB SD

OS: Debian 8.1, Kernel: 4.2.0-BPI-kernel+ (armv7l), Compiler: GCC 4.9.2, 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-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=armv7-a --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v
Processor Notes: Scaling Governor: cpufreq-dt ondemand

ODROID C1 Plus

Processor: ARMv7 rev 1 @ 1.54GHz (4 Cores), Motherboard: ODROIDC, Memory: 836MB, Disk: 8GB SD

OS: Ubuntu 14.04, Kernel: 3.10.80-135 (armv7l), Desktop: LXDE 0.6.1, Display Server: X Server 1.15.1, OpenGL: 2.1 Mesa 10.1.3, Compiler: GCC 4.9.3, File-System: ext4, Screen Resolution: 1920x1080

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,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-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v
Processor Notes: Scaling Governor: meson_cpufreq performance

Orange Pi PC

Processor: ARMv7 rev 5 @ 1.20GHz (4 Cores), Motherboard: sun8i, Memory: 1024MB, Disk: 16GB SL16G

OS: Raspbian GNU/Linux 7, Kernel: 3.4.39 (armv7l), Desktop: LXDE 0.7.1, Display Server: X Server 1.12.4, Compiler: GCC 4.6.3, File-System: ext4, Screen Resolution: 1280x720

Compiler Notes: --build=arm-linux-gnueabihf --disable-sjlj-exceptions --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch=armv6 --with-float=hard --with-fpu=vfp -v
Processor Notes: Scaling Governor: cpufreq-sunxi ondemand

Orange Pi Plus

Processor: ARMv7 rev 5 @ 1.20GHz (3 Cores), Motherboard: sun8i, Memory: 1024MB, Disk: 16GB SL16G

OS: Raspbian GNU/Linux 7, Kernel: 3.4.39 (armv7l), Desktop: LXDE 0.7.1, Display Server: X Server 1.12.4, Compiler: GCC 4.6.3, File-System: ext4, Screen Resolution: 1280x720

Compiler Notes: --build=arm-linux-gnueabihf --disable-sjlj-exceptions --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch=armv6 --with-float=hard --with-fpu=vfp -v
Processor Notes: Scaling Governor: cpufreq-sunxi ondemand

UP2 E3940 2GB

Processor: Intel Atom E3940 @ 1.80GHz (4 Cores), Motherboard: AAEON UP-APL01, Chipset: Intel Atom/Celeron/Pentium, Memory: 2 x 1024 MB DDR3 Unde, Disk: 31GB M52532, Graphics: Intel HD (Broxton 2x6) 1920MB, Audio: Intel Atom/Celeron/Pentium, Monitor: LP2151, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.10, Kernel: 4.8.0-30-generic (x86_64), Desktop: Unity 7.5.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.3 Mesa 12.0.3, Compiler: GCC 6.2.0 20161005, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-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-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate powersave

UP Xtreme i7 4GB

Processor: Intel 0000 @ 4.10GHz (4 Cores / 8 Threads), Motherboard: AAEON UP-WHL01 (UPW1AM0D BIOS), Chipset: Intel Device 9def, Memory: 4096MB, Disk: 31GB DA4032, Graphics: Intel UHD 620 (1150MHz), Audio: Realtek ALC892, Monitor: LG TV, Network: Intel I219-V + Intel I211

OS: Ubuntu 19.04, Kernel: 5.0.0-13-generic (x86_64), Desktop: GNOME Shell 3.32.0, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 4096x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave
Security Notes: __user pointer sanitization + Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + SSB disabled via prctl and seccomp

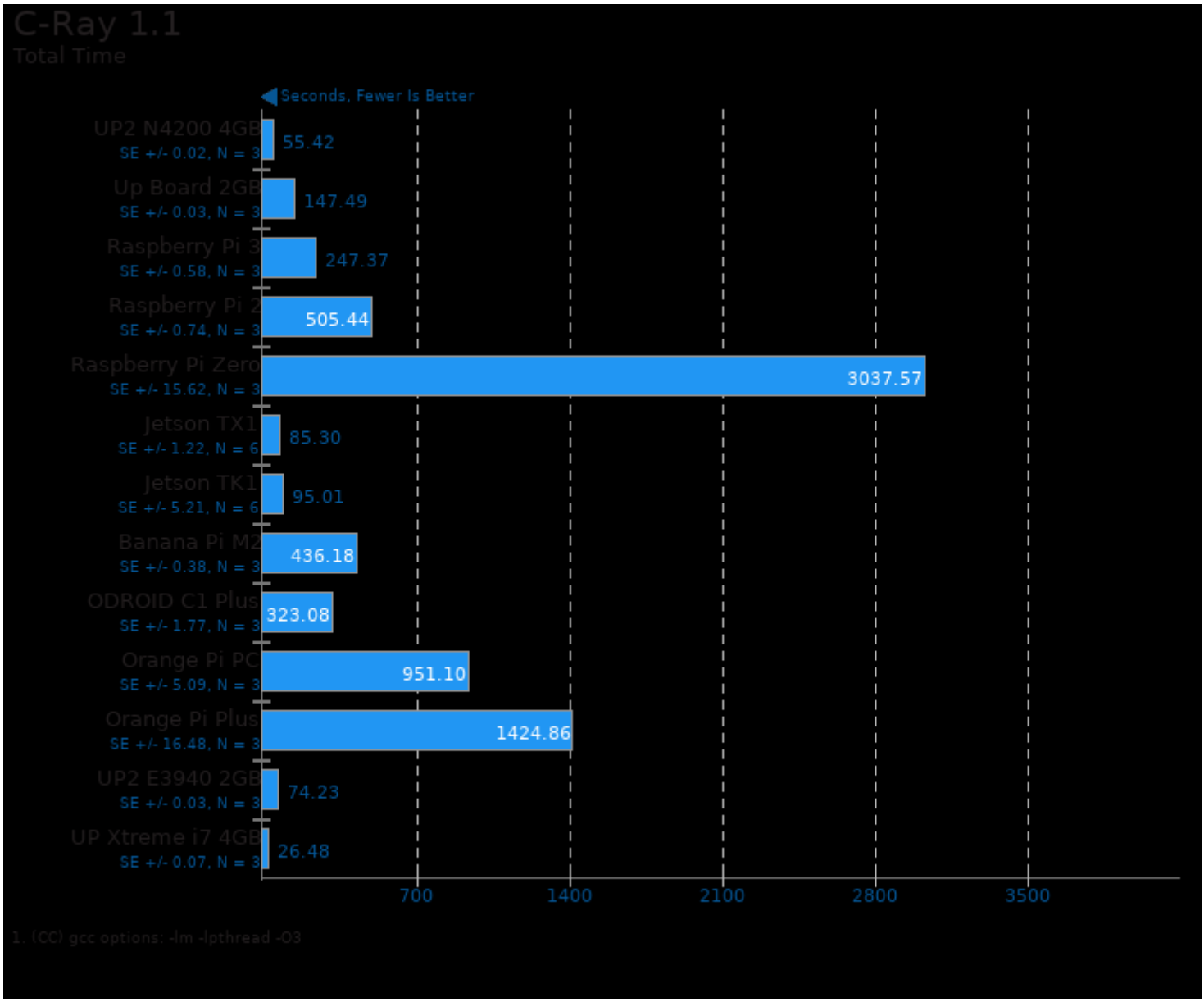
UP Board Linux Benchmark Comparison

	UP2 N4200 4GB	Up Board 2GB	Raspberry Pi 3	Raspberry Pi 2	Raspberry Pi Zero	Jetson TX1	Jetson TK1	Banana Pi M2	ODROID C1 Plus	Orange Pi PC	Orange Pi Plus	UP2 E3940 2GB	UP Xtreme i7 4GB
C-Ray - Total Time (sec)	55.42	147.49	247.37	505.44	3038	85.30	95.01	436.18	323.08	951.10	1425	74.23	26.48
Normalized	47.78%	17.95%	10.7%	5.24%	0.87%	31.04%	27.87%	6.07%	8.2%	2.78%	1.86%	35.67%	100%
Standard Deviation	0%	0%	0.4%	0.3%	0.9%	3.5%	13.4%	0.2%	0.9%	0.9%	2%	0.1%	0.5%
FLAC Audio Encoding - WAV To FLAC	14.53	36.30	228.37	314.58	606.76	47.64	50.29	269.63	200.50	261.83	257.87	19.34	5.71
Normalized	39.3%	15.73%	2.5%	1.82%	0.94%	11.99%	11.35%	2.12%	2.85%	2.18%	2.21%	29.52%	100%
Standard Deviation	0.1%	0%	0.3%	0.9%	1.5%	0.2%	0.1%	0.1%	2.7%	2.2%	1.1%	0.3%	0.4%
Himeno Benchmark - P.P.S (MFLOPS)	787.19	425.83	62.54	33.29	10.00	83.40	141.30	60.08	81.97	59.24	64.38	594.01	2448
Normalized	32.16%	17.4%	2.55%	1.36%	0.41%	3.41%	5.77%	2.45%	3.35%	2.42%	2.63%	24.27%	100%
Standard Deviation	0.1%	0.2%	5.9%	2.4%	1.2%	1.8%	1.8%	2.3%	3%	1.2%	0.1%	0.1%	0.6%
Himeno Benchmark - Performance / Cost - P.P.S (MFLOPS/Dollar)	3.96	4.30	1.79	0.90	2.00	0.14	0.74		1.82	2.37	1.43	3.51	
Normalized	92.09%	100%	41.63%	20.93%	46.51%	3.26%	17.21%		42.33%	55.12%	33.26%	81.63%	
John The Ripper - Blowfish (Real	2964	1447	629	387	88.73	1563	422	427	494	315	322	2110	5587
Normalized	53.05%	25.9%	11.26%	6.93%	1.59%	27.98%	7.55%	7.64%	8.84%	5.64%	5.76%	37.77%	100%
Standard Deviation	0.1%	0.1%	2.6%	0.3%	3.4%	0.2%	0.1%	0.1%	0.1%	11.3%	0%	9.5%	0.3%
John The Ripper - Performance / Cost - Blowfish	14.89	14.62	17.97	10.46	17.75	2.61	2.20		10.98	12.60	7.16	12.49	
Normalized	82.86%	81.36%	100%	58.21%	98.78%	14.52%	12.24%		61.1%	70.12%	39.84%	69.5%	
Meta Performance Per Dollar - P.P.D (Performance/D	6.65	6.56	6.78	3.58	8.08	0.79	1.03		4.07	5.07	2.92	5.66	
Normalized	82.3%	81.19%	83.91%	44.31%	100%	9.78%	12.75%		50.37%	62.75%	36.14%	70.05%	
OpenSSL - R.4.b.P (Signs/sec)	219.53	75.70	20.25	11.93	2.60	24.67	54.40	13.40	18.80	11.93	7.83	164.50	500.83
Normalized	43.83%	15.11%	4.04%	2.38%	0.52%	4.93%	10.86%	2.68%	3.75%	2.38%	1.56%	32.85%	100%
Standard Deviation	0.1%	0%	8.6%	0.5%	0%	0.2%	0.2%	0%	0%	0.5%	0.7%	0%	1.7%

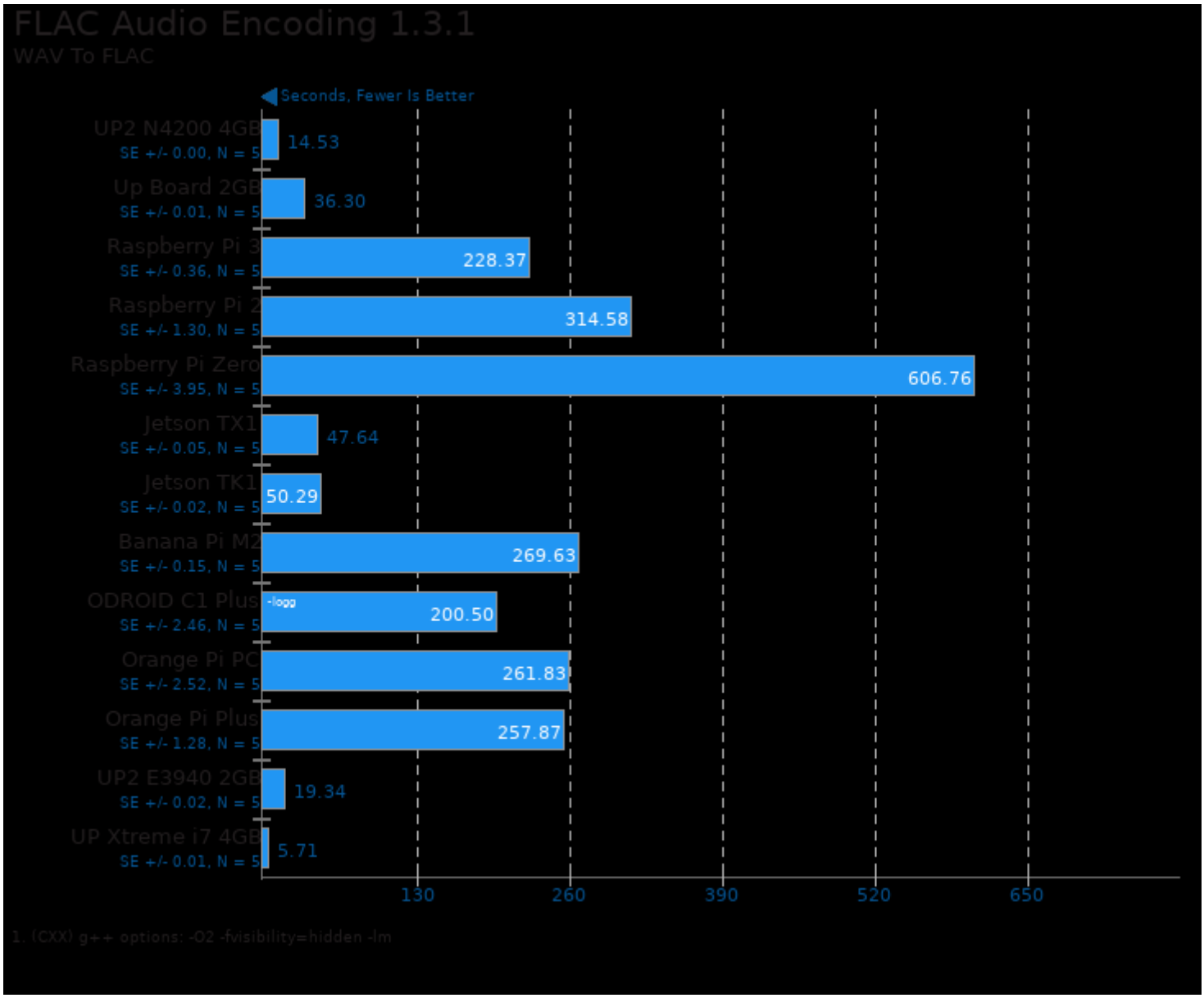
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OpenSSL - Performance / Cost - R.4.b.P (Signs/sec/Dollar)	**1.10**	0.76	0.58	0.32	0.52	**0.04**	0.28		0.42	0.48	0.17	0.97	
Normalized	100%	69.09%	52.73%	29.09%	47.27%	3.64%	25.45%		38.18%	43.64%	15.45%	88.18%	
Smallpt - G.I.R.1.S (sec)	254	529	1388	2175	**12029**	613	2888	1984	1590	1982	3042	340	**107**
Normalized	42.13%	20.23%	7.71%	4.92%	0.89%	17.46%	3.7%	5.39%	6.73%	5.4%	3.52%	31.47%	100%
Standard Deviation	0%	0.1%	0.4%	0.5%	0.5%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.3%	
Timed MAFFT Alignment - M.S.A (sec)	13.38	27.16	53.62	75.46	**501.11**	16.56	15.10	71.58	51.54	77.16	103.05	17.66	**6.81**
Normalized	50.9%	25.07%	12.7%	9.02%	1.36%	41.12%	45.1%	9.51%	13.21%	8.83%	6.61%	38.56%	100%
Standard Deviation	3.2%	0.4%	3.3%	2.3%	1.8%	0.7%	5.6%	7%	0.8%	0.9%	5.5%	4.4%	6.6%

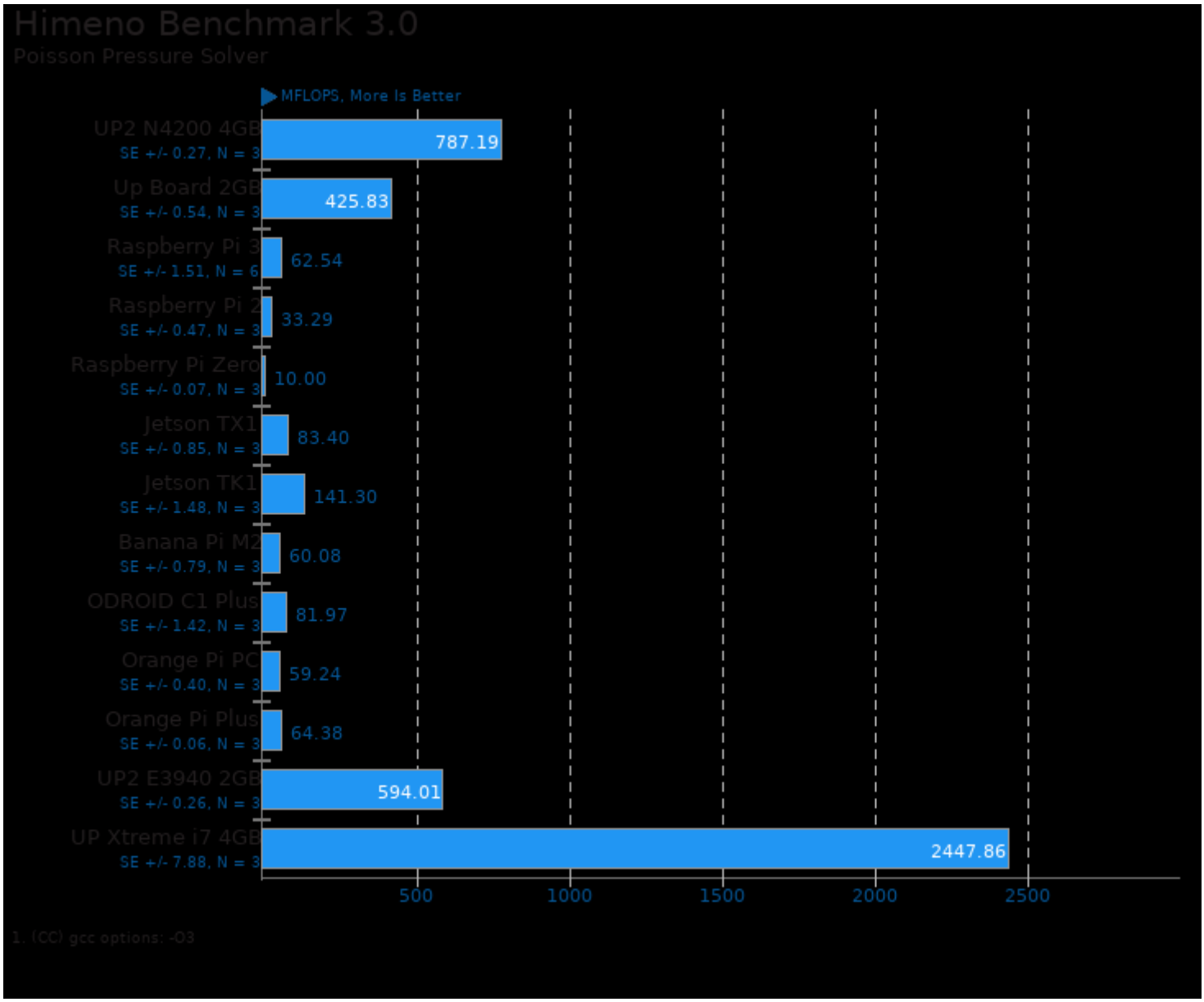
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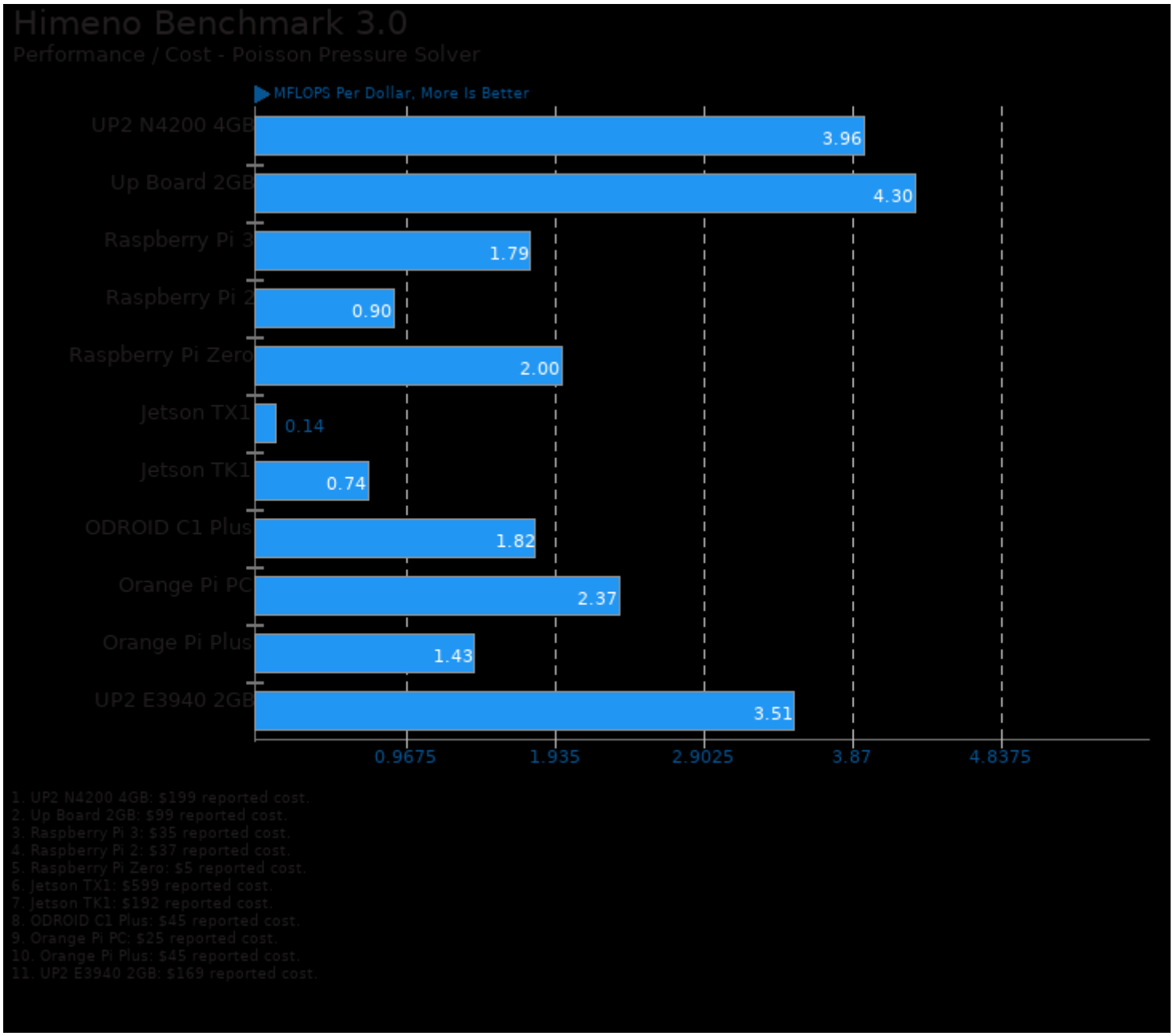
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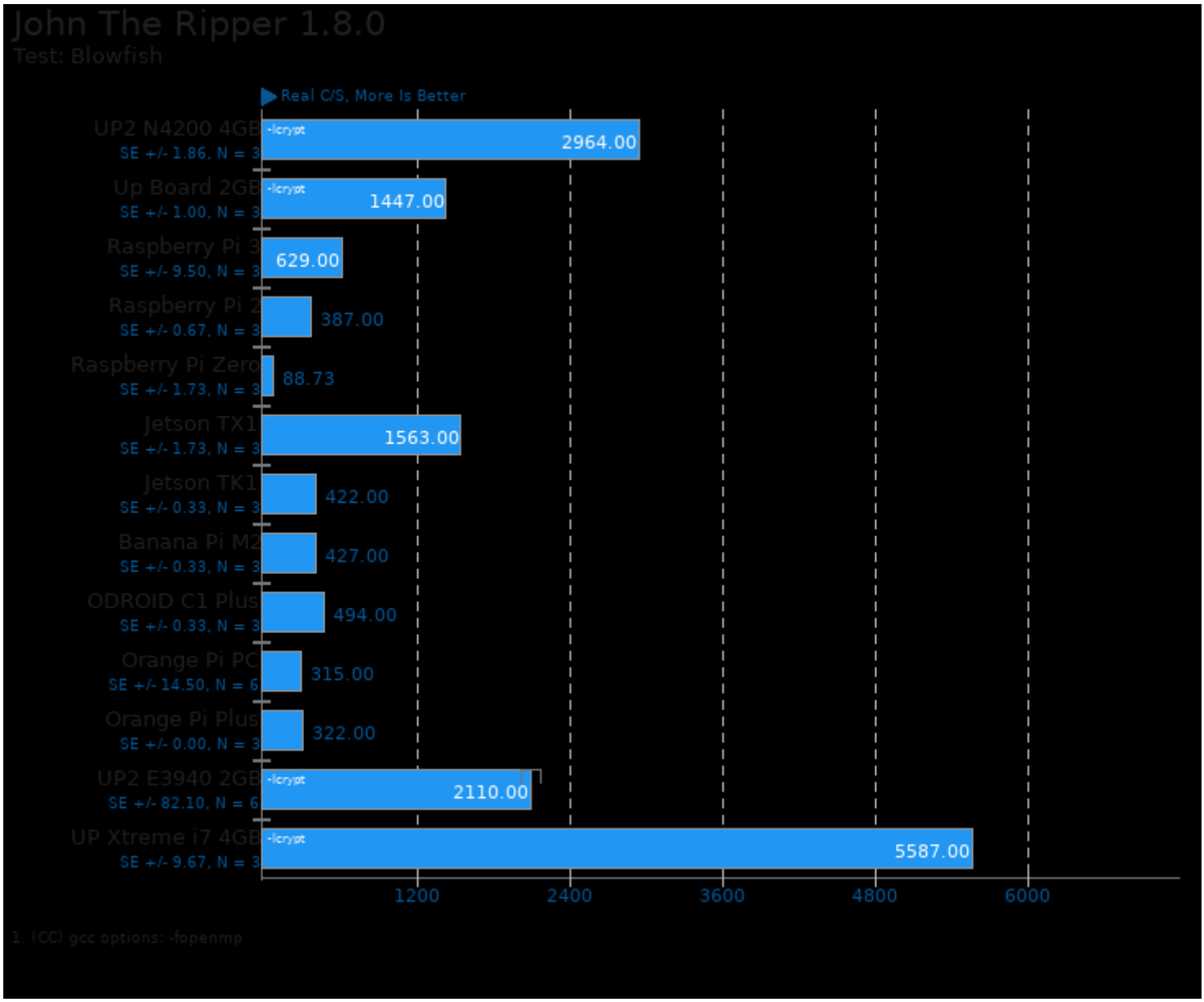
UP Board Linux Benchmark Comparison



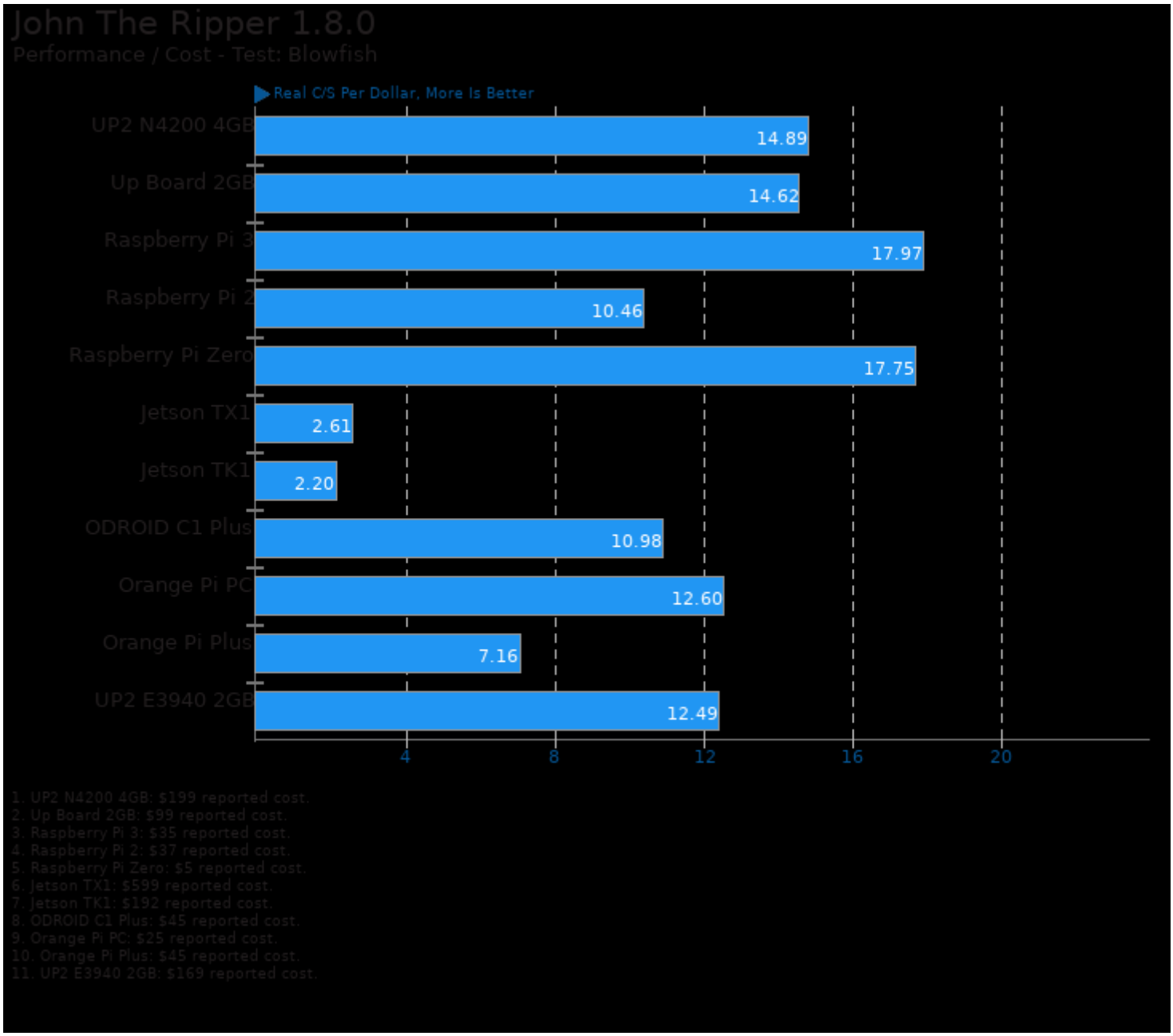
UP Board Linux Benchmark Comparison



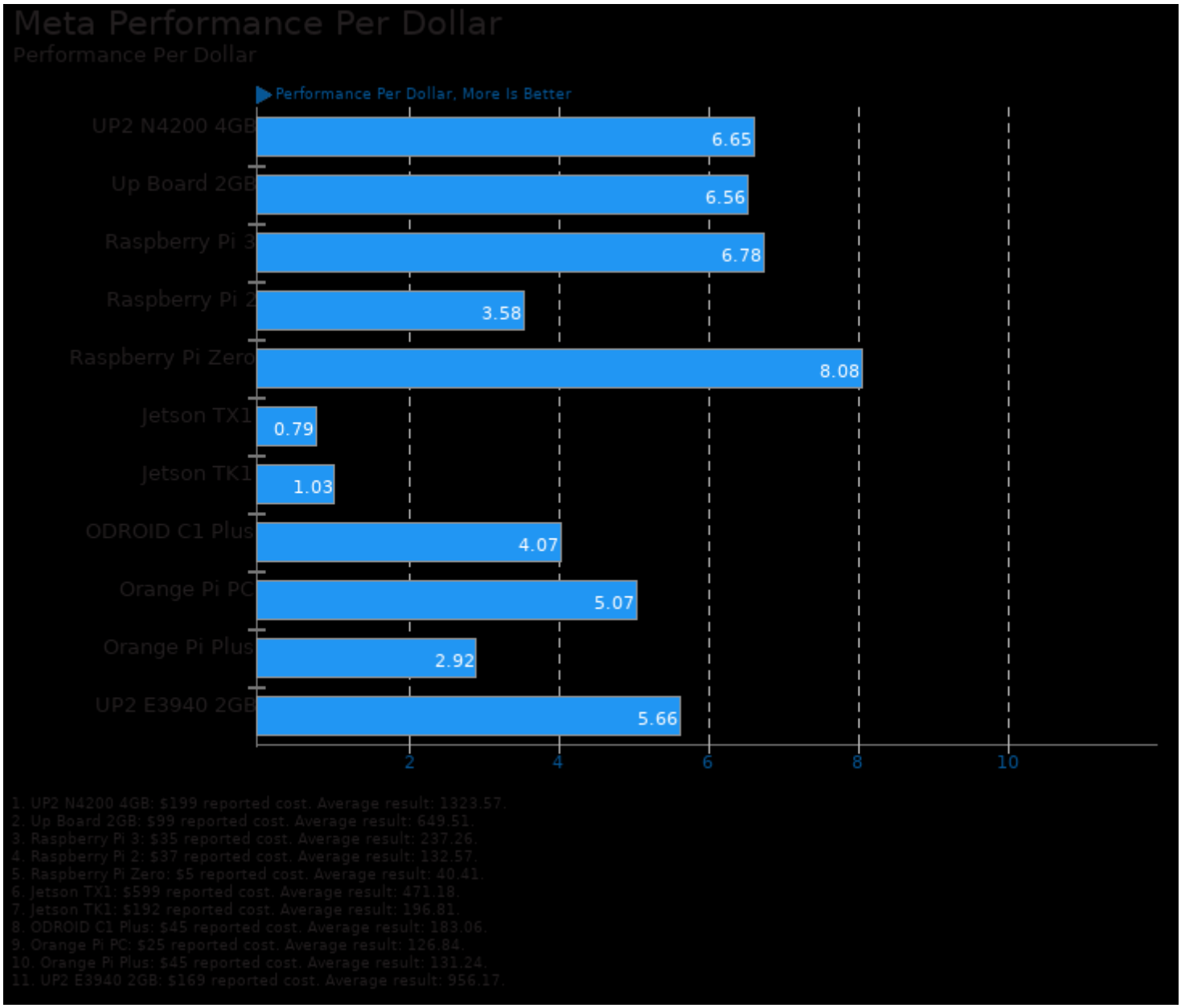
UP Board Linux Benchmark Comparison



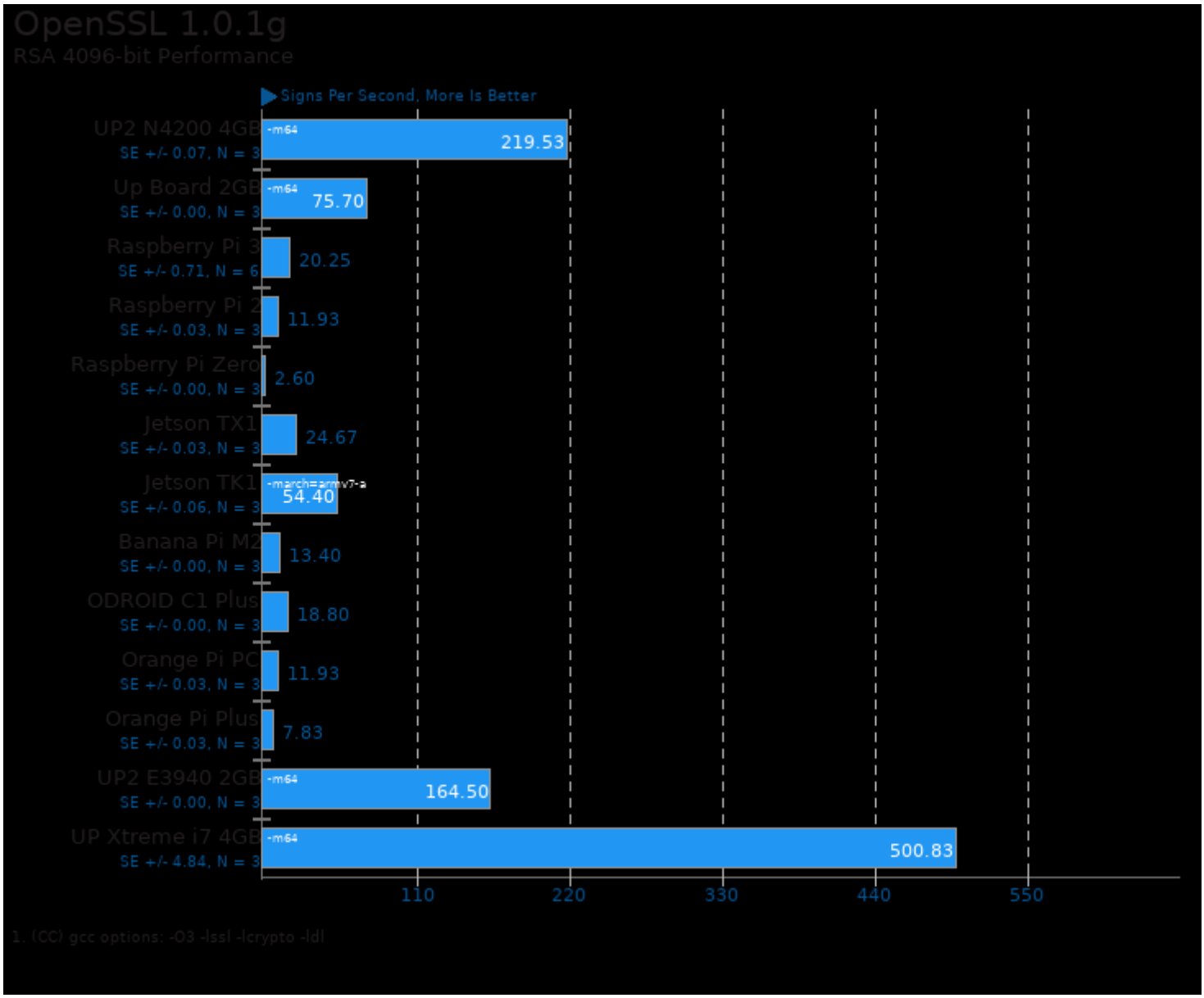
UP Board Linux Benchmark Comparison



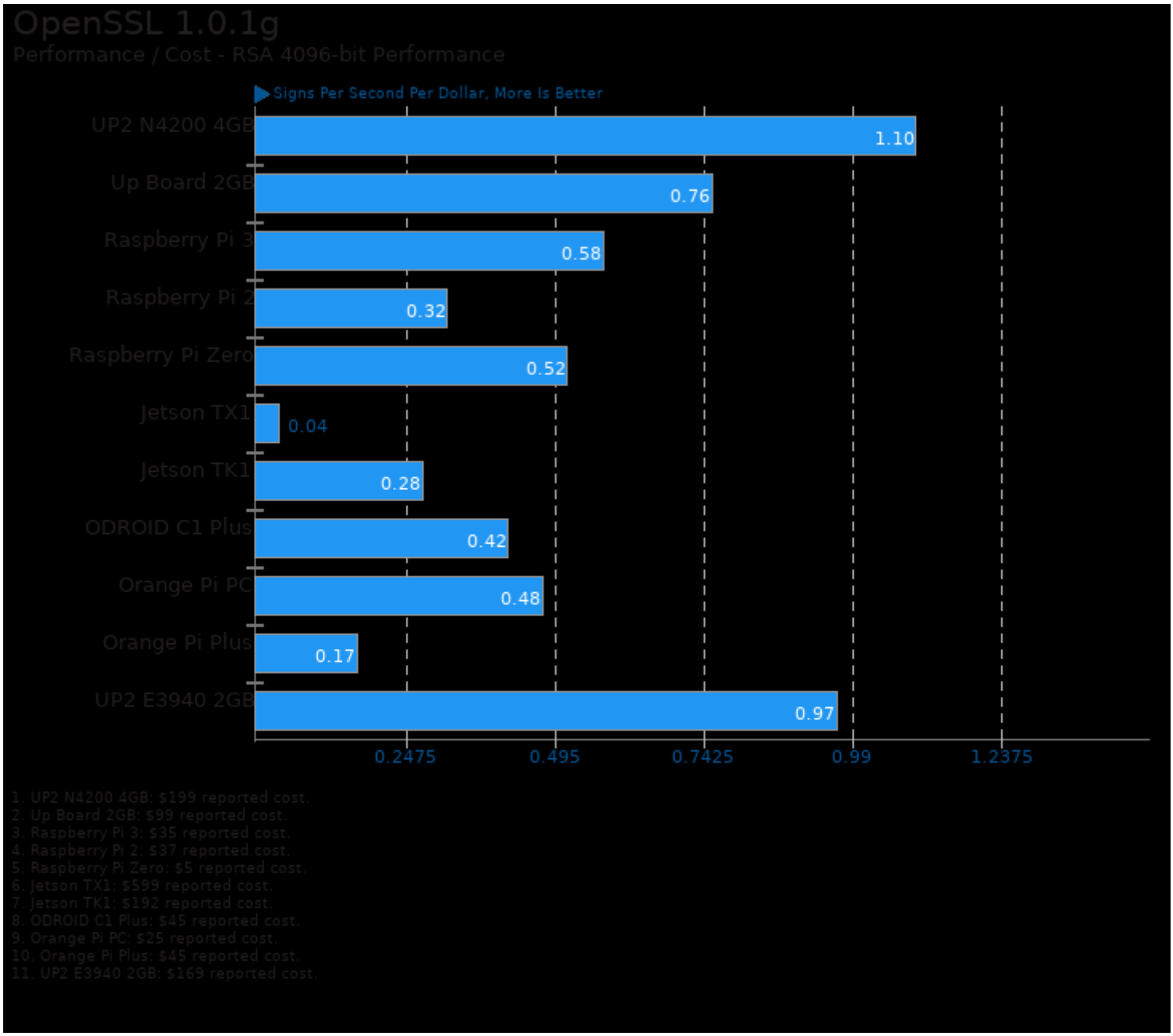
UP Board Linux Benchmark Comparison



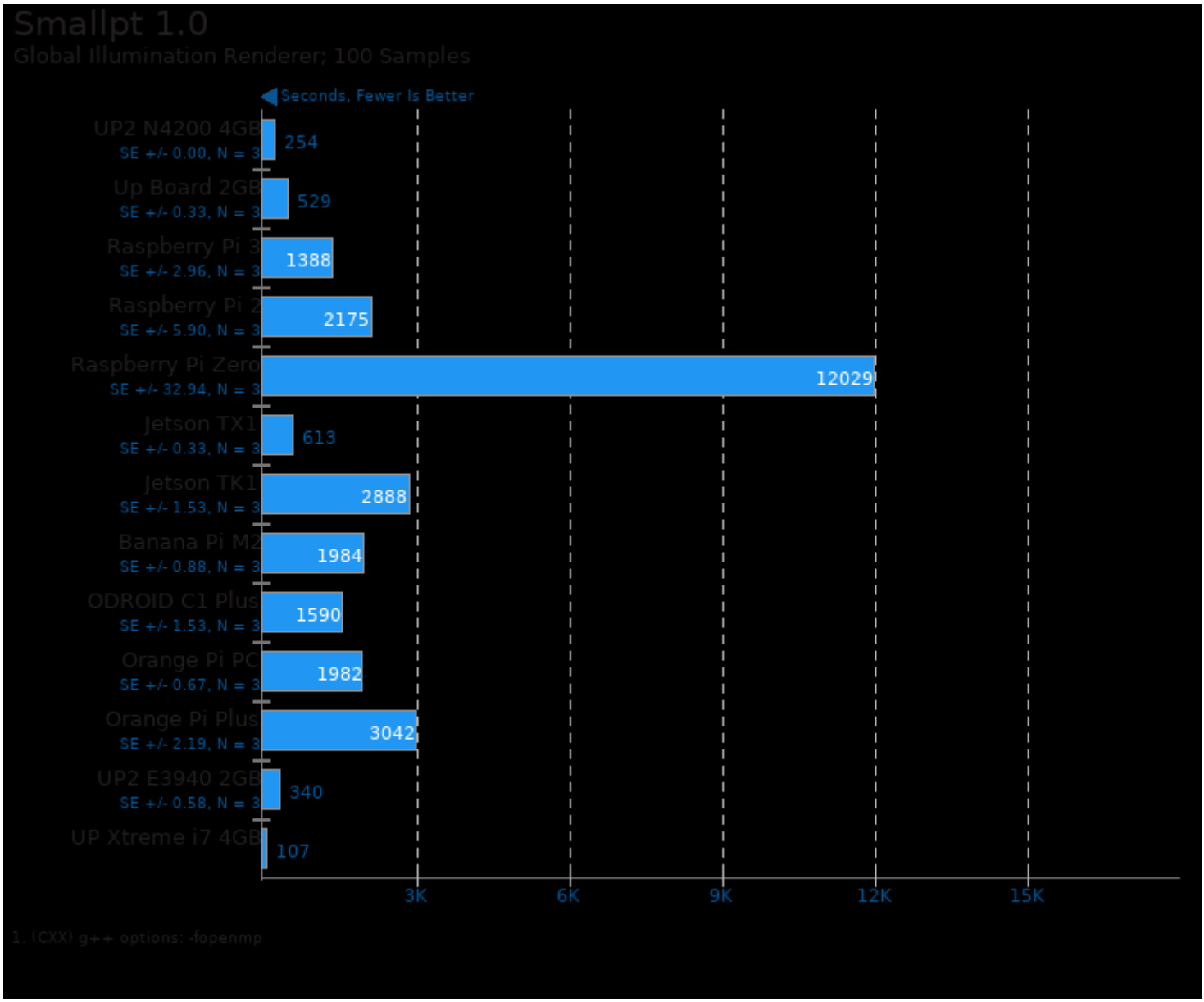
UP Board Linux Benchmark Comparison



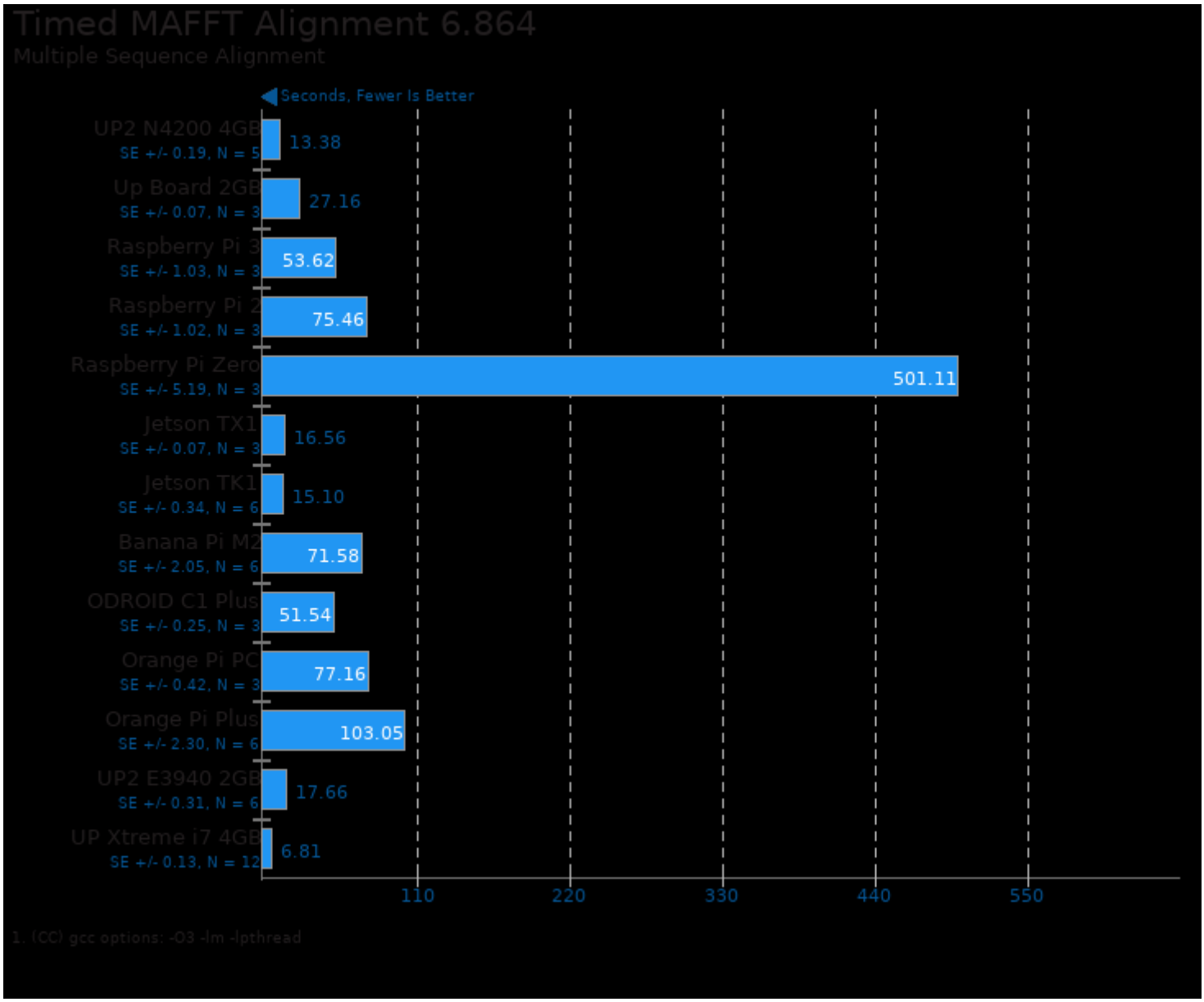
UP Board Linux Benchmark Comparison



UP Board Linux Benchmark Comparison

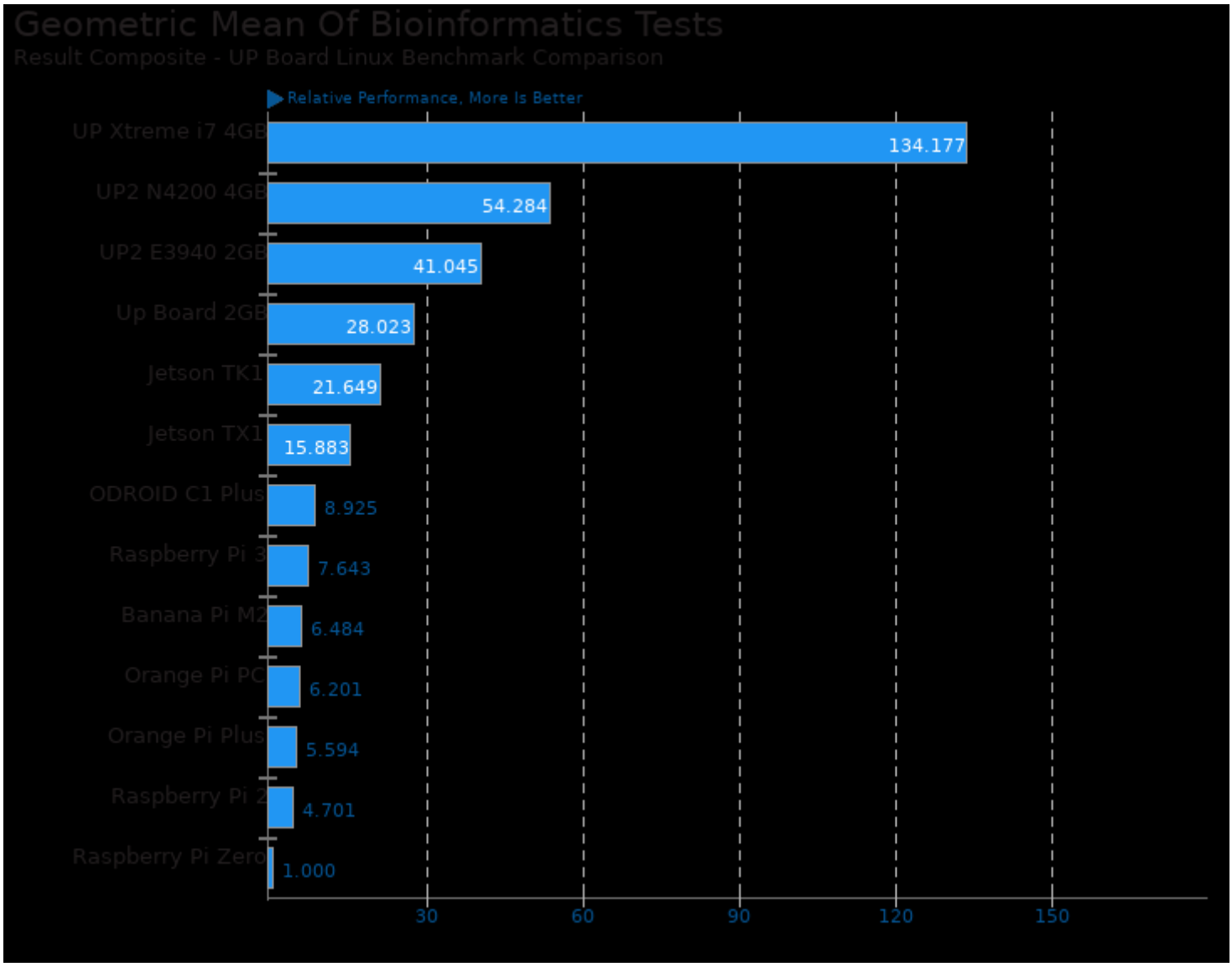


UP Board Linux Benchmark Comparison



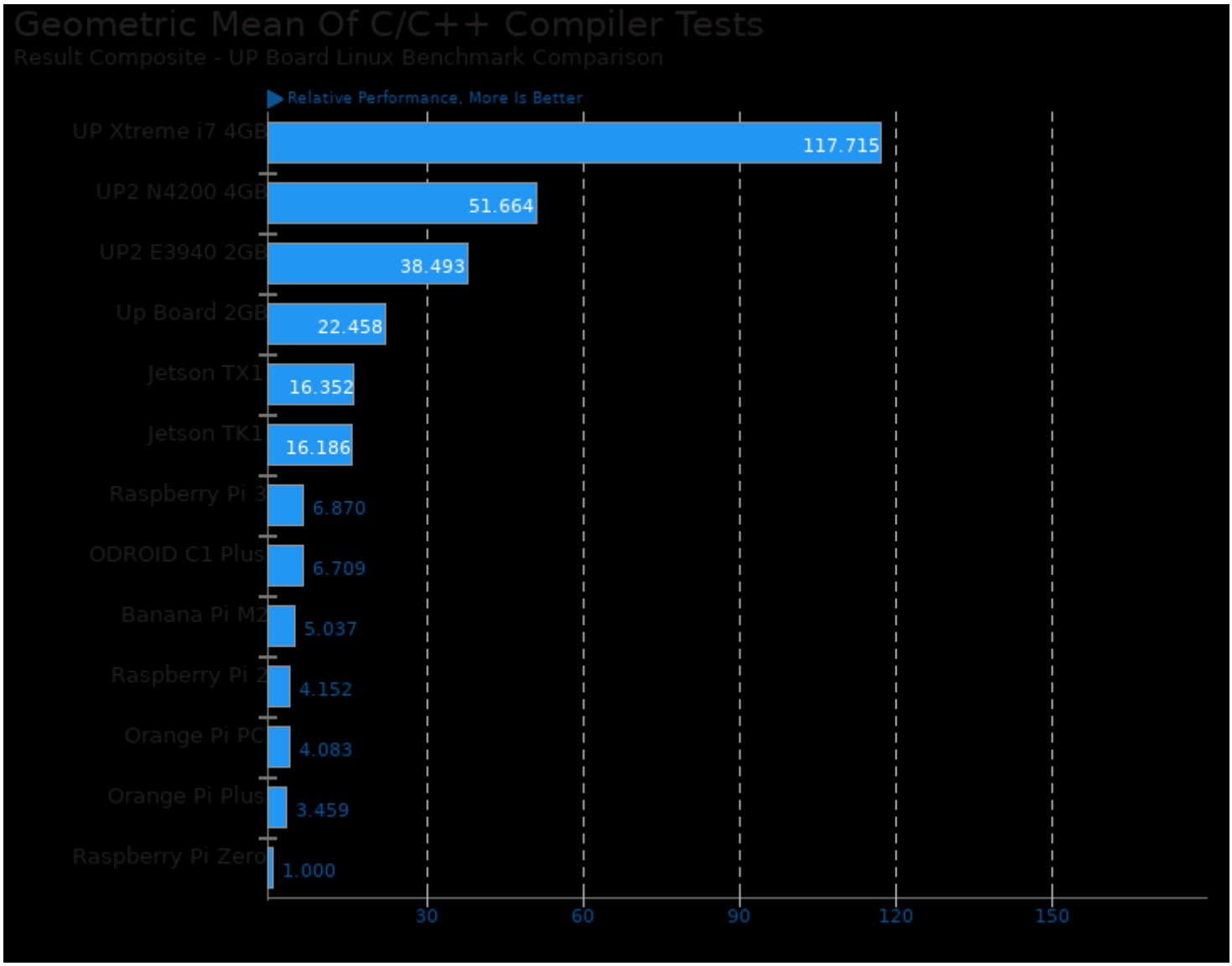
UP Board Linux Benchmark Comparison

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



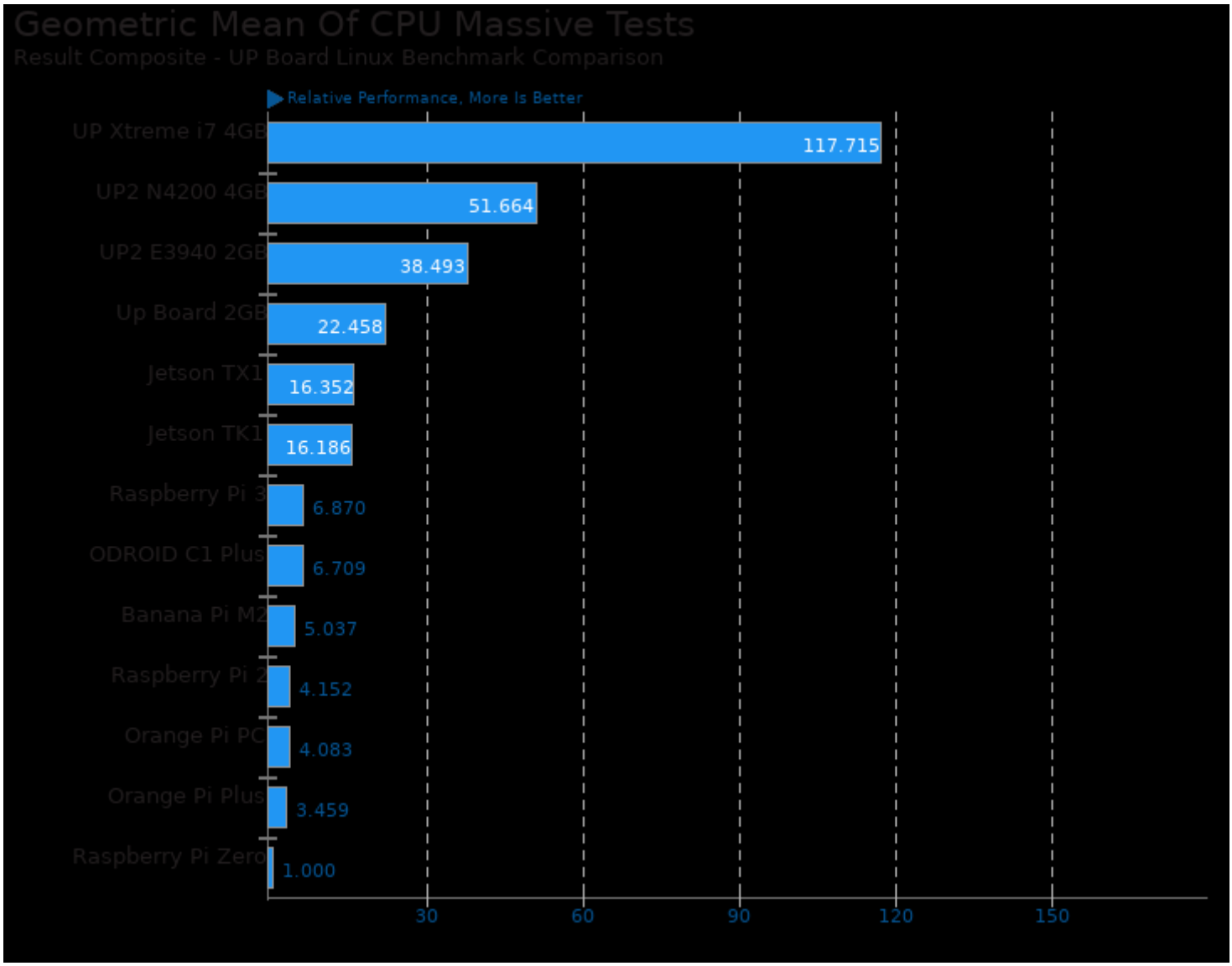
Geometric mean based upon tests: pts/himeno and pts/mafft

UP Board Linux Benchmark Comparison



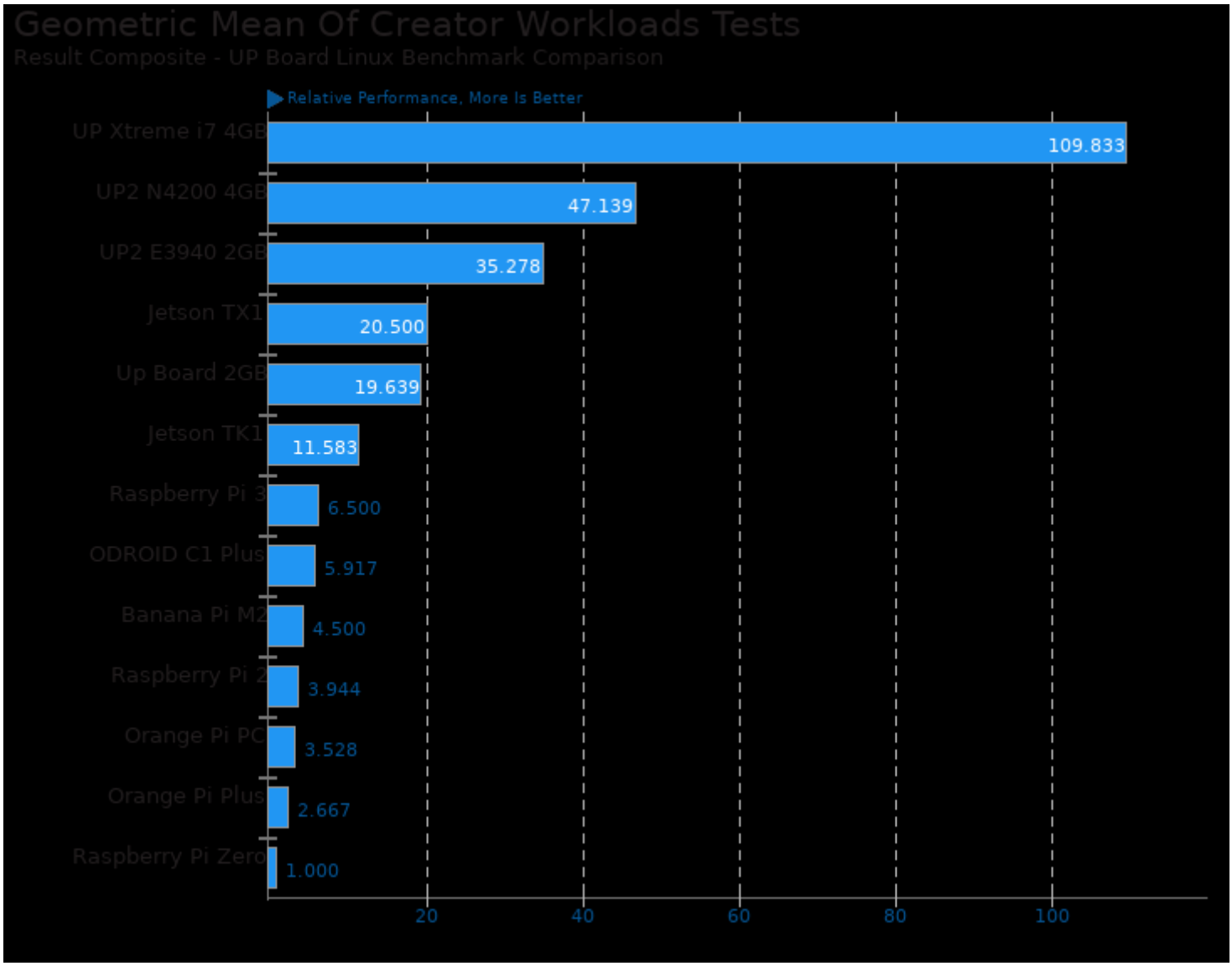
Geometric mean based upon tests: pts/mafft, pts/himeno, pts/c-ray, pts/encode-flac, pts/john-the-ripper and pts/openssl

UP Board Linux Benchmark Comparison



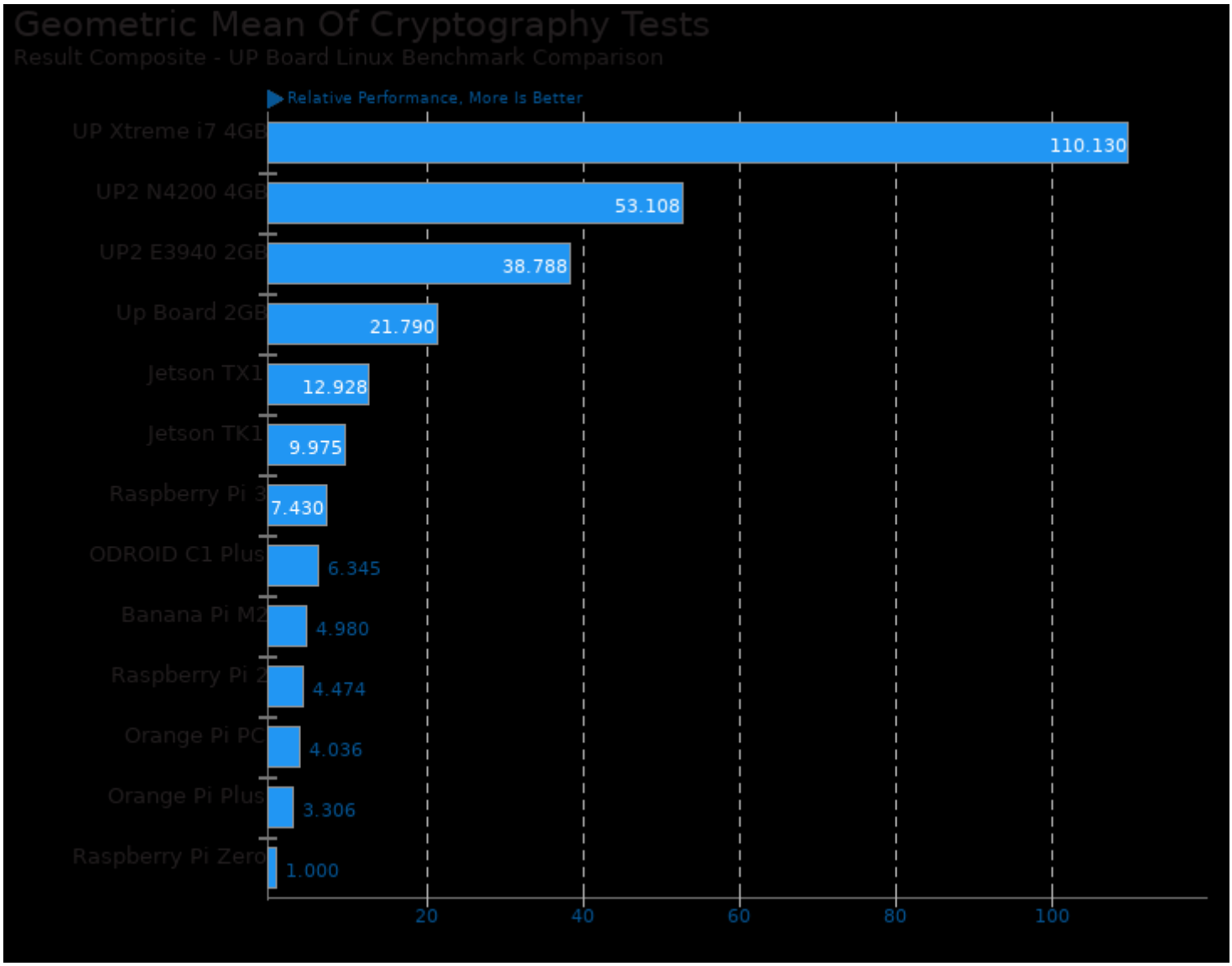
Geometric mean based upon tests: pts/c-ray, pts/encode-flac, pts/himeno, pts/john-the-ripper, pts/openssl and pts/mafft

UP Board Linux Benchmark Comparison

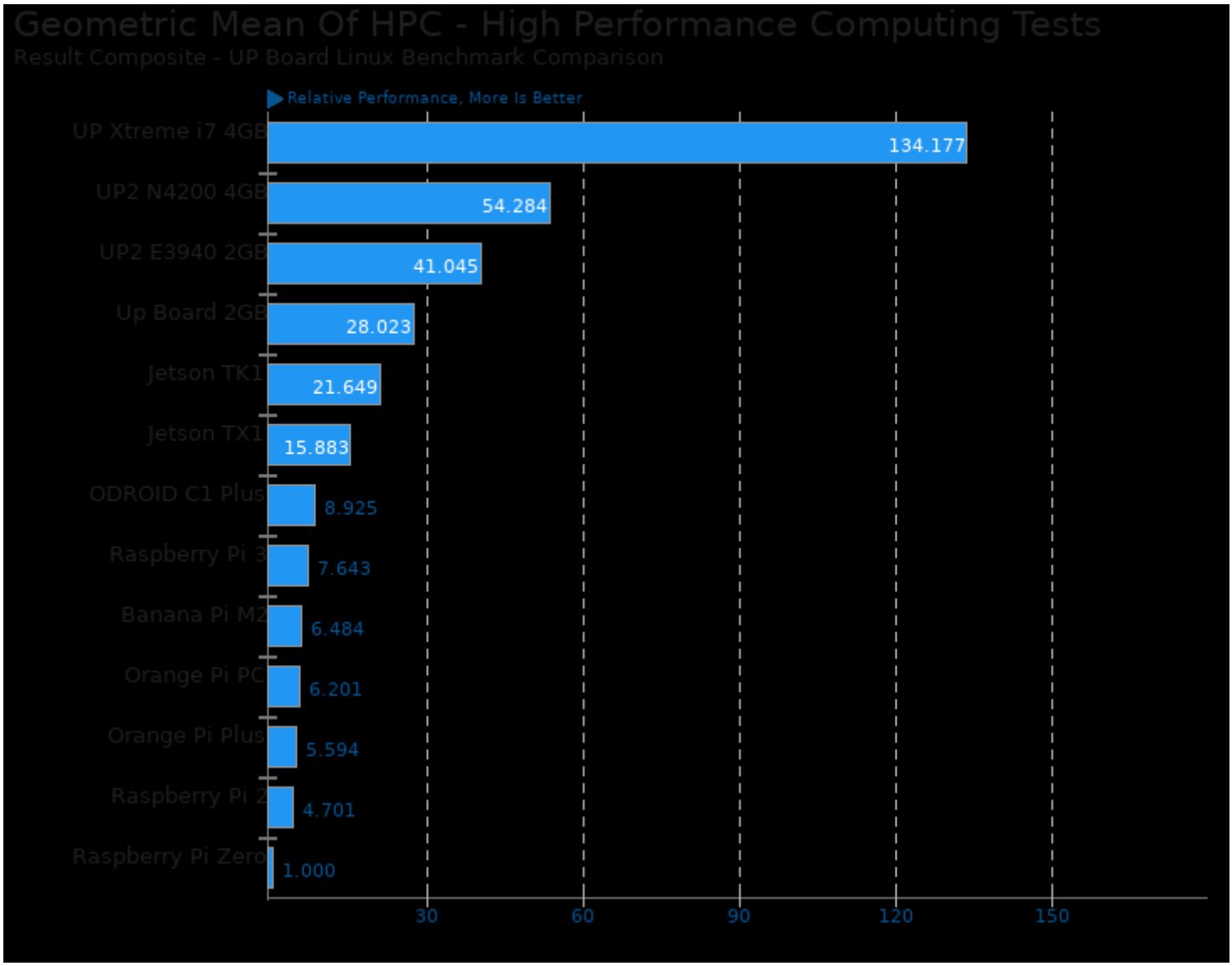


Geometric mean based upon tests: pts/c-ray, pts/smallpt and pts/encode-flac

UP Board Linux Benchmark Comparison

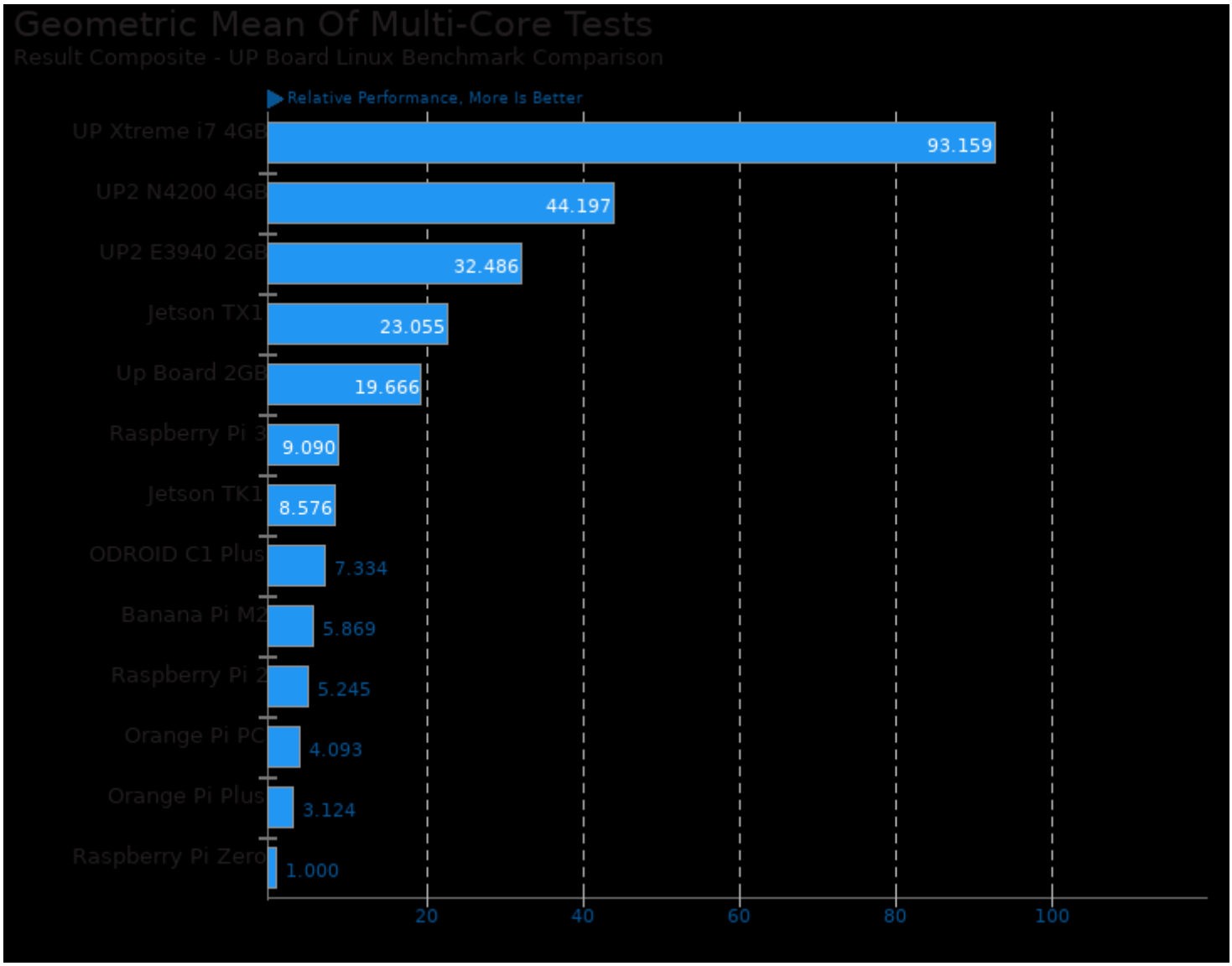


Geometric mean based upon tests: pts/openssl and pts/john-the-ripper



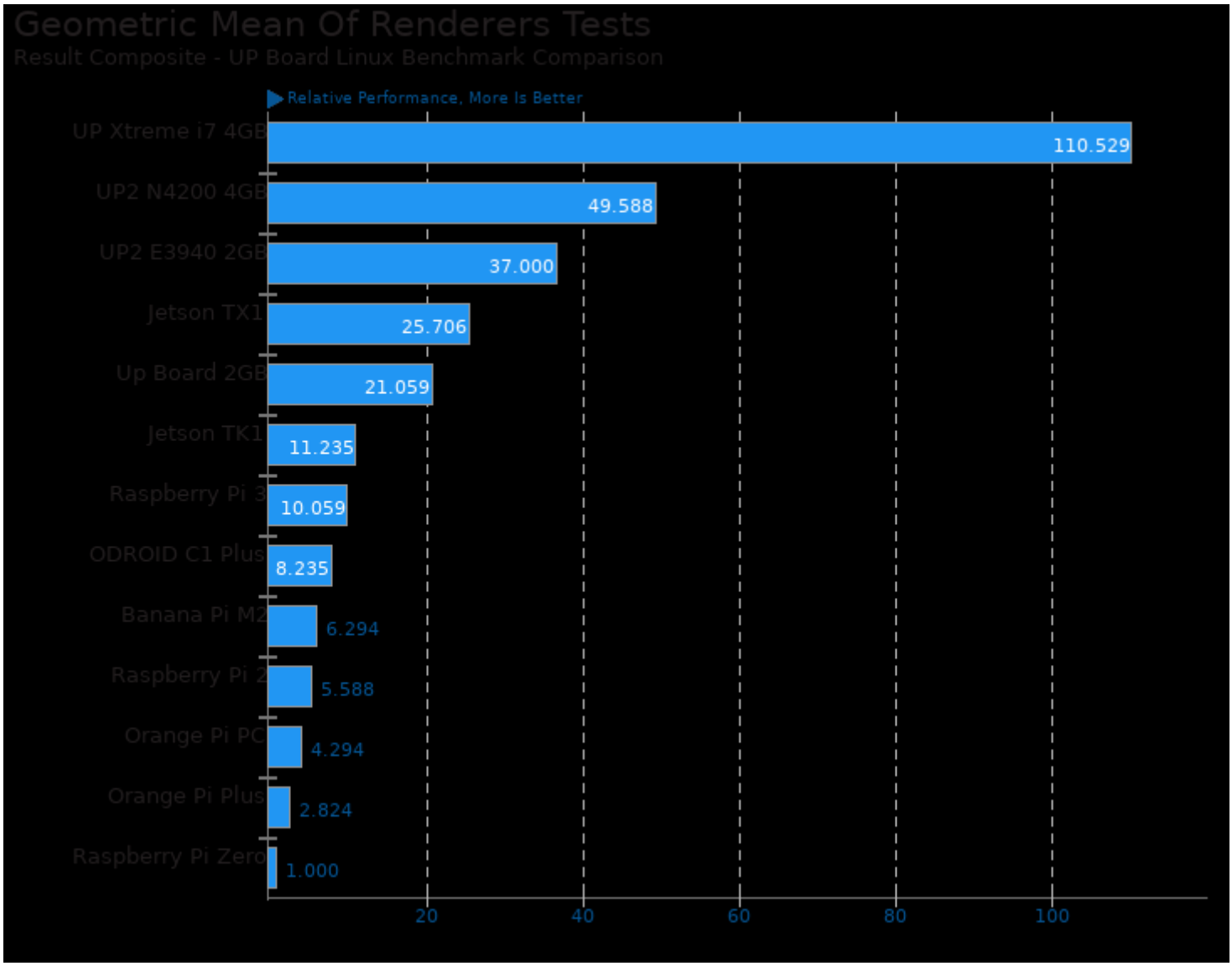
Geometric mean based upon tests: pts/himeno and pts/mafft

UP Board Linux Benchmark Comparison



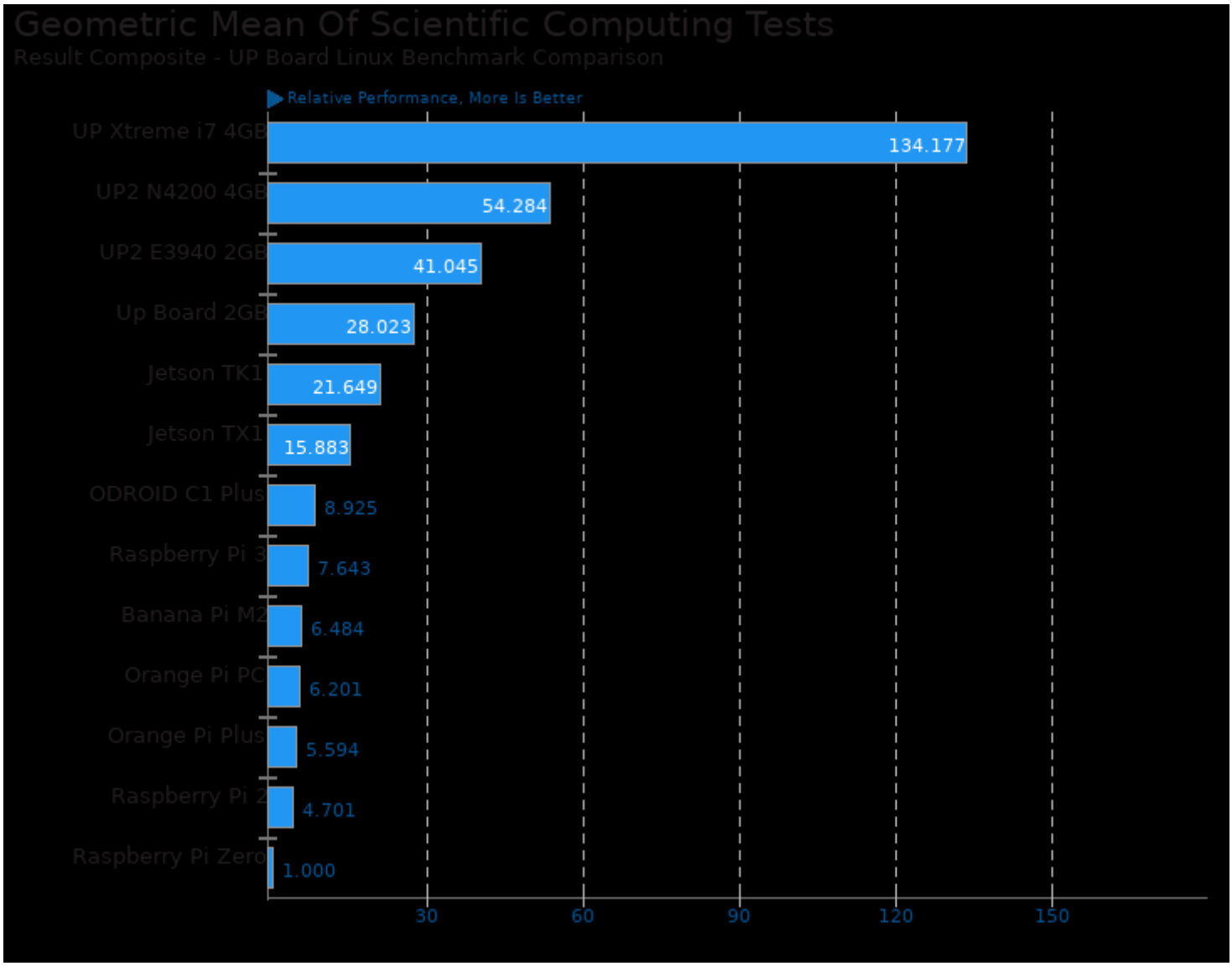
Geometric mean based upon tests: pts/c-ray, pts/john-the-ripper and pts/smallpt

UP Board Linux Benchmark Comparison



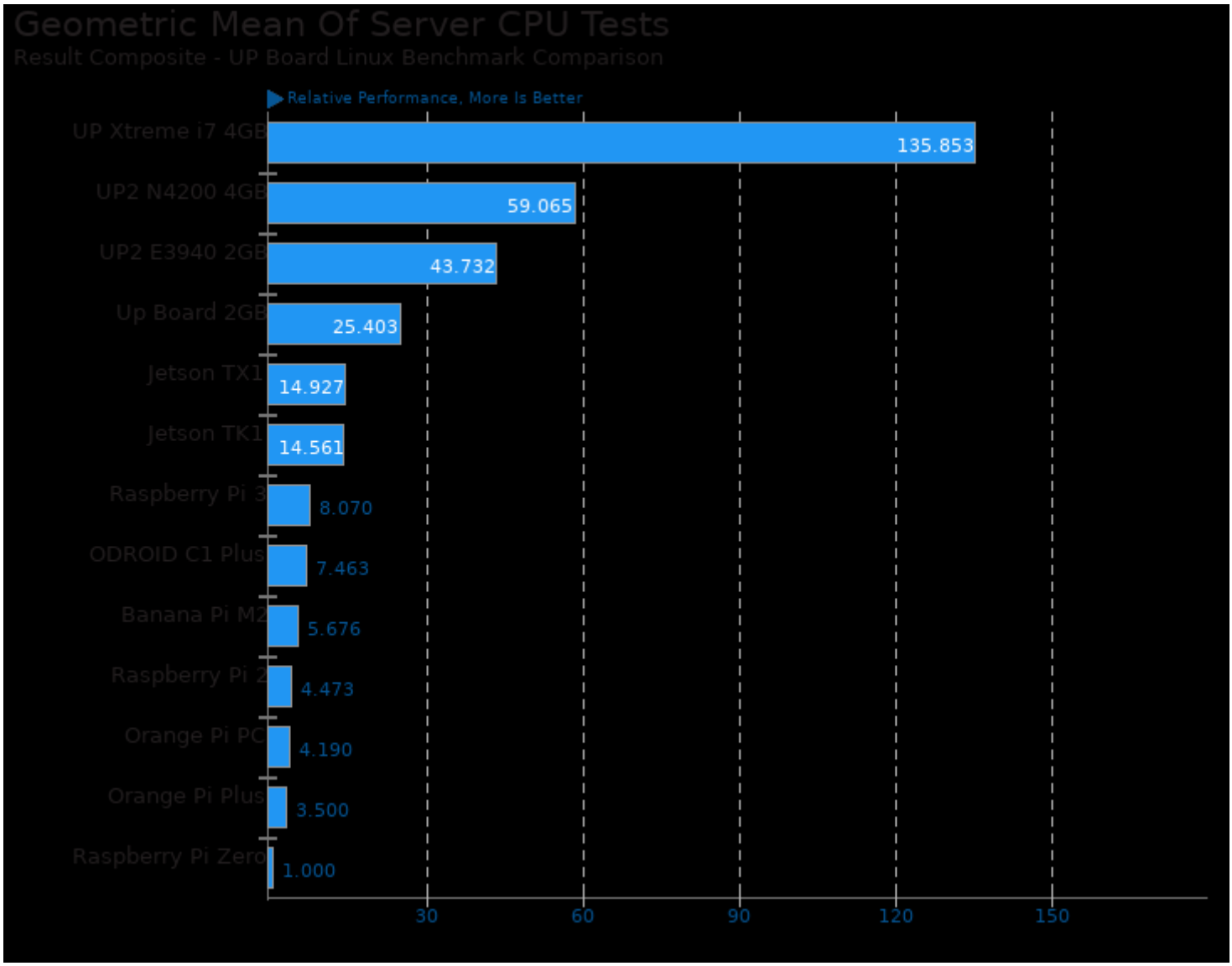
Geometric mean based upon tests: pts/c-ray and pts/smallpt

UP Board Linux Benchmark Comparison



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

UP Board Linux Benchmark Comparison



Geometric mean based upon tests: pts/john-the-ripper, pts/himeno, pts/c-ray and pts/openssl

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:10.