


**www.phoronix-test-suite.com**

# mini computers

Running pts/x11perf-1.1.1, pts/ramspeed-1.4.0, pts/c-ray-1.1.0, pts/dcraw-1.1.0, pts/encode-mp3-1.4.0, pts/sample-program-1.1.0, pts/pybench-1.0.0, pts/nginx-1.1.0, pts/phpbench-1.1.0 via the Phoronix Test Suite.

**Automated Executive Summary**

*AMD Radeon HD 8500M - Intel Core i5-3317U had the most wins, coming in first place for 46% of the tests.*

*Based on the geometric mean of all complete results, the fastest (AMD Radeon HD 8500M - Intel Core i5-3317U) was 46.588x the speed of the slowest (raspberry). intel sandy i5 was 0.931x the speed of AMD Radeon HD 8500M - Intel Core i5-3317U, Intel Broadwell-U - Intel Core i3-5010U was 0.804x the speed of intel sandy i5, odroid-x2 was 0.248x the speed of Intel Broadwell-U - Intel Core i3-5010U, raspberry was 0.116x the speed of odroid-x2.*

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

*x11perf (Test: Fill 300 x 300px AA Trapezoid) at 777.778x*
*x11perf (Test: Char in 80-char aa line) at 512.093x*
*RAMspeed SMP (Type: Triad - Benchmark: Floating Point) at 78.475x*
*RAMspeed SMP (Type: Add - Benchmark: Floating Point) at 78.343x*
*NGINX Benchmark (Static Web Page Serving) at 77.528x*
*RAMspeed SMP (Type: Triad - Benchmark: Integer) at 69.111x*
*RAMspeed SMP (Type: Add - Benchmark: Integer) at 68.664x*

*RAMspeed SMP (Type: Average - Benchmark: Floating Point) at 67.493x*
*C-Ray (Total Time) at 67.304x*
*RAMspeed SMP (Type: Average - Benchmark: Integer) at 66.632x.*

# Test Systems:

## raspberry

Processor: ARMv6-compatible rev 7 @ 0.70GHz (1 Core), Motherboard: BCM2708, Memory: 438MB, Disk: 16GB SU16G

OS: Debian Linux 7.0, Kernel: 3.6.11+ (armv6l), Desktop: LXDE 0.5.10, Display Server: X Server 1.12.4, Compiler: GCC 4.6, File-System: ext4, Screen Resolution: 1366x768

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: powersave
System Notes: Python 2.7.3.

## intel sandy i5

Processor: Intel Core i5-2410M @ 2.30GHz (4 Cores), Motherboard: ASUS N53SV v1.0, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 8192MB, Disk: 500GB Seagate ST9500325AS, Graphics: Intel 2nd Generation Core Family IGP, Audio: Realtek ALC269VB, Monitor: IPS224, Network: Realtek RTL8111/8168 + Atheros AR9285 Wireless

OS: Ubuntu 13.04, Kernel: 3.9.0-030900rc8-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.13.3, Display Driver: intel 2.21.6, OpenGL: 3.0 Mesa 9.2.0 (git-3900a0e quantal-oibaf-ppa), Compiler: GCC 4.7, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-cloog-version-check --disable-ppl-version-check --disable-werror --enable-checking=release --enable-clocale=gnu --enable-cloog-backend=ppl --enable-gnu-unique-object --enable-languages=c,c++,go,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-cloog --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: ondemand
Graphics Notes: SNA
System Notes: Python 2.7.4.

## odroid-x2

Processor: ARMv7 rev 0 @ 1.60GHz (1 Core), Motherboard: ODROIDX2, Memory: 2048MB, Disk: 16GB SU16G

OS: Ubuntu 12.11, Kernel: 3.0.60-odroidx2 (armv7l), Desktop: Unity 2D, Display Server: X Server 1.11.3, OpenGL: 2.1 Mesa 8.0.4, Compiler: GCC 4.6, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=arm-linux-gnueabihf --disable-sjlj-exceptions --disable-werror --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-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch=armv7-a --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v
Processor Notes: Scaling Governor: ondemand
System Notes: Python 2.7.3.

## AMD Radeon HD 8500M - Intel Core i5-3317U

Processor: Intel Core i5-3317U @ 2.60GHz (4 Cores), Motherboard: Dell 02XR30, Chipset: Intel 3rd Gen Core DRAM, Memory: 8192MB, Disk: 1000GB Western Digital WD10JPVT-75A, Graphics: AMD Radeon HD 8500M/8700M 2048MB (700/900MHz), Audio: Intel 7 /C210, Network: Realtek RTL8101E/RTL8102E + Qualcomm Atheros AR9485 Wireless

OS: Mageia 5, Kernel: 3.19.7-desktop-1.mga5 (x86_64), Desktop: KDE 4.14.5, Display Server: X Server 1.16.4, Display Driver: intel 2.99.917, OpenGL: 4.4.13283, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1366x768

Compiler Notes: --build=x86_64-mageia-linux-gnu --disable-libjava-multilib --disable-libssp --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-gtk-cairo --enable-java-awt=gtk --enable-languages=c,c++,ada,fortran,objc,obj-c++,java --enable-long-long --enable-lto --enable-objc-gc --enable-shared --enable-ssp --enable-threads=posix --host=x86_64-mageia-linux-gnu --mandir=/usr/share/man --with-cloog --with-cpu=generic --with-ppl --with-python-dir=/lib/python2.7/site-packages --with-slibdir=/lib64
Processor Notes: Scaling Governor: intel_pstate performance
Graphics Notes: UXA
System Notes: Python 2.7.9.

## Intel Broadwell-U - Intel Core i3-5010U

Processor: Intel Core i3-5010U @ 2.10GHz (4 Cores), Motherboard: Intel NUC5i3RYB, Chipset: Intel Broadwell-U-OPI, Memory: 8192MB, Disk: 120GB OCZ ARC100 + 16GB Cruzer Fit, Graphics: Intel Broadwell-U (900MHz), Audio: Intel Broadwell-U Audio, Network: Intel Connection + Intel Wireless 7265

OS: Ubuntu 14.04, Kernel: 3.19.0-26-generic (x86_64), Desktop: LXDE 0.6.1, Display Server: X Server 1.17.1, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 10.5.2, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1360x768

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-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-amd64 --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: SNA
System Notes: Python 2.7.6.

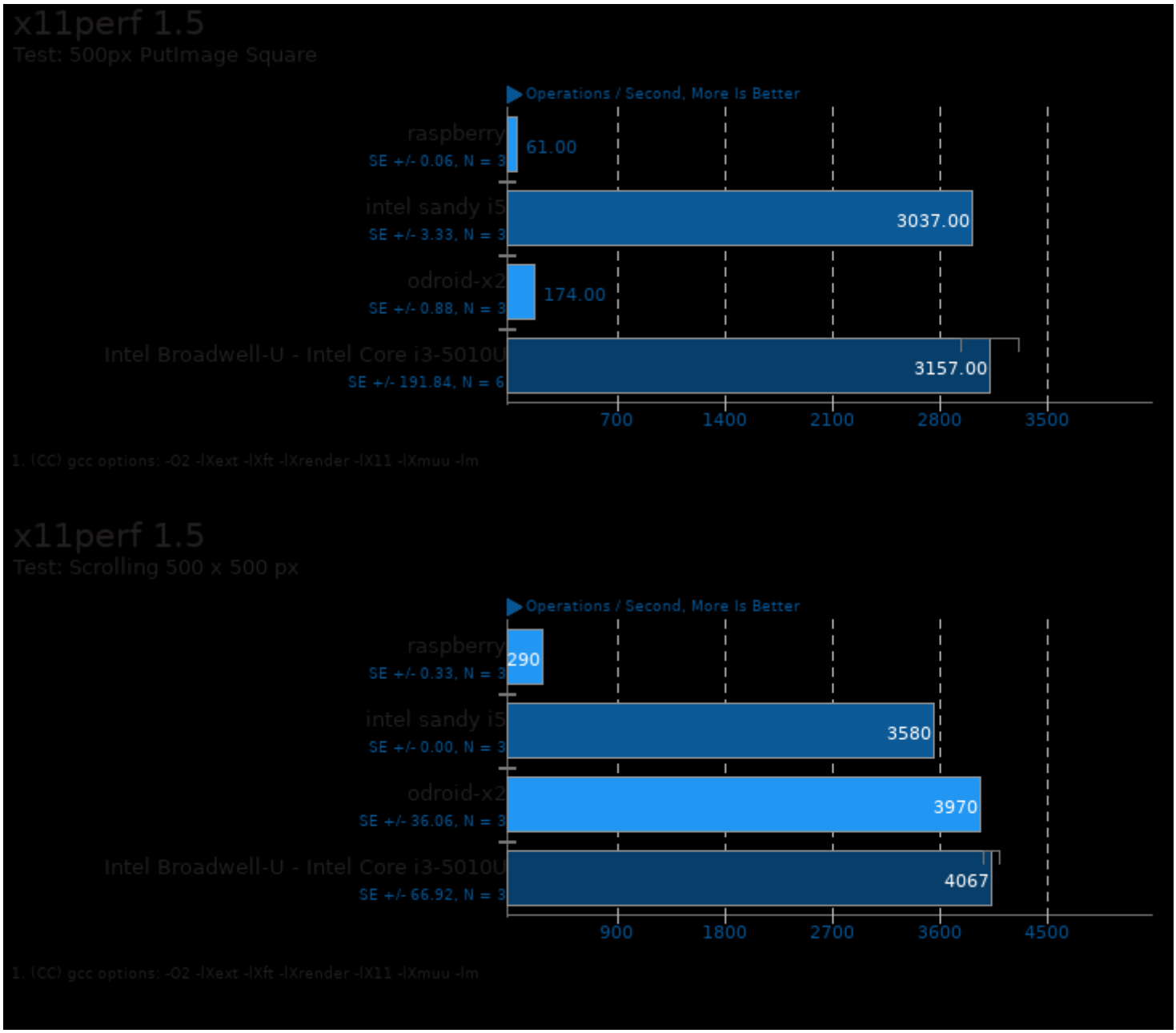
| | raspberry | intel sandy i5 | odroid-x2 | AMD Radeon HD 8500M - Intel Core i5-3317U | Intel Broadwell-U - Intel Core i3-5010U |
|---|---|---|---|---|---|
| **x11perf - 5.P.S (Operations / Second)** | **61.00** | 3037 | 174 | | **3157** |
| **Normalized** | 1.93% | 96.2% | 5.51% | | 100% |
| **Standard Deviation** | 0.2% | 0.2% | 0.9% | | 14.9% |
| **x11perf - S.5.x.5.p (Operations / Second)** | **290** | 3580 | 3970 | | **4067** |
| **Normalized** | 7.13% | 88.03% | 97.61% | | 100% |
| **Standard Deviation** | 0.2% | 0% | 1.6% | | 2.9% |
| **x11perf - C.i.8.c.a.l (Operations / Second)** | **31700** | **16233333** | 241333 | | 12733333 |
| **Normalized** | 0.2% | 100% | 1.49% | | 78.44% |
| **Standard Deviation** | 0.3% | 1.3% | 2.8% | | 1.2% |

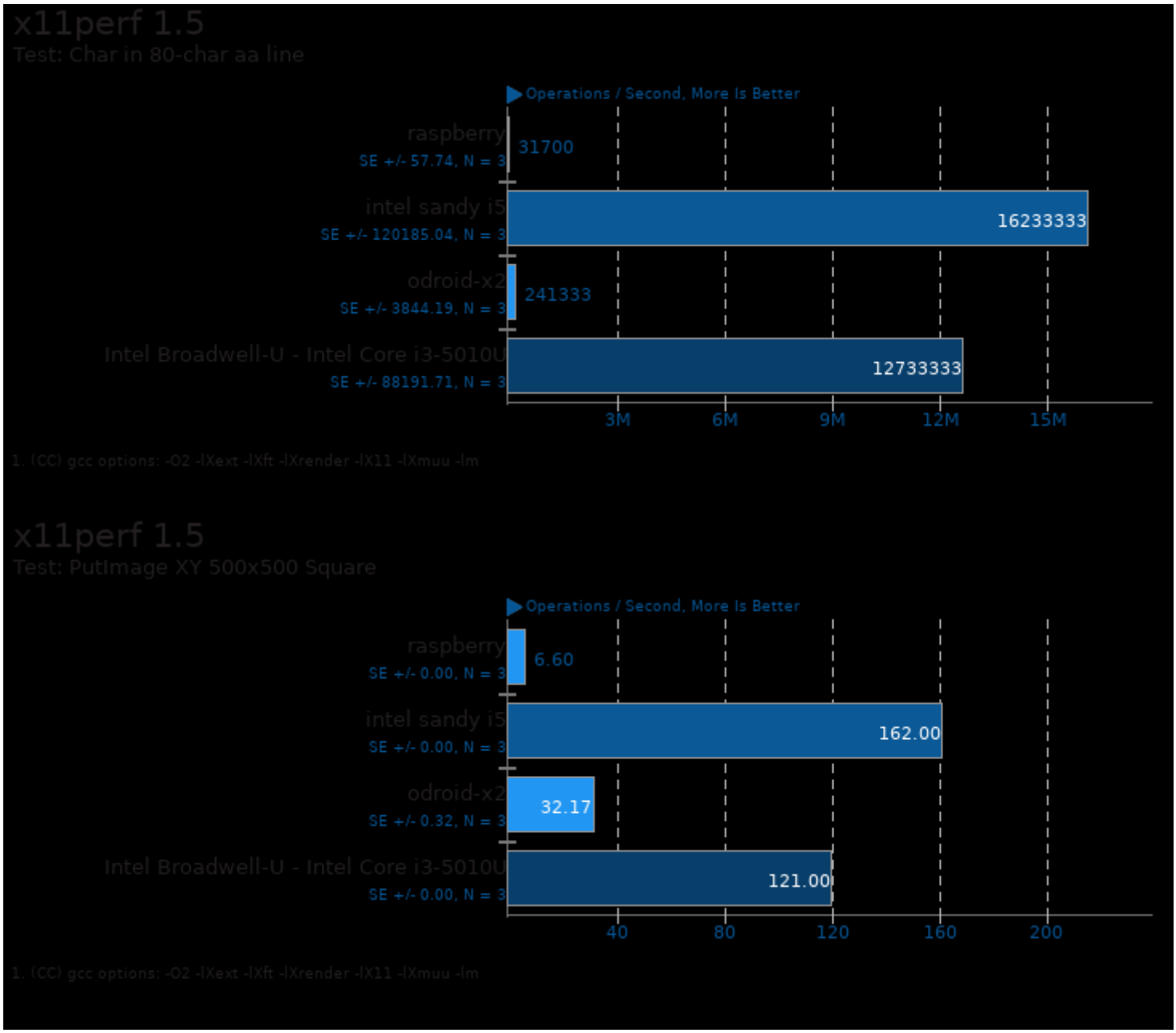
# mini computers

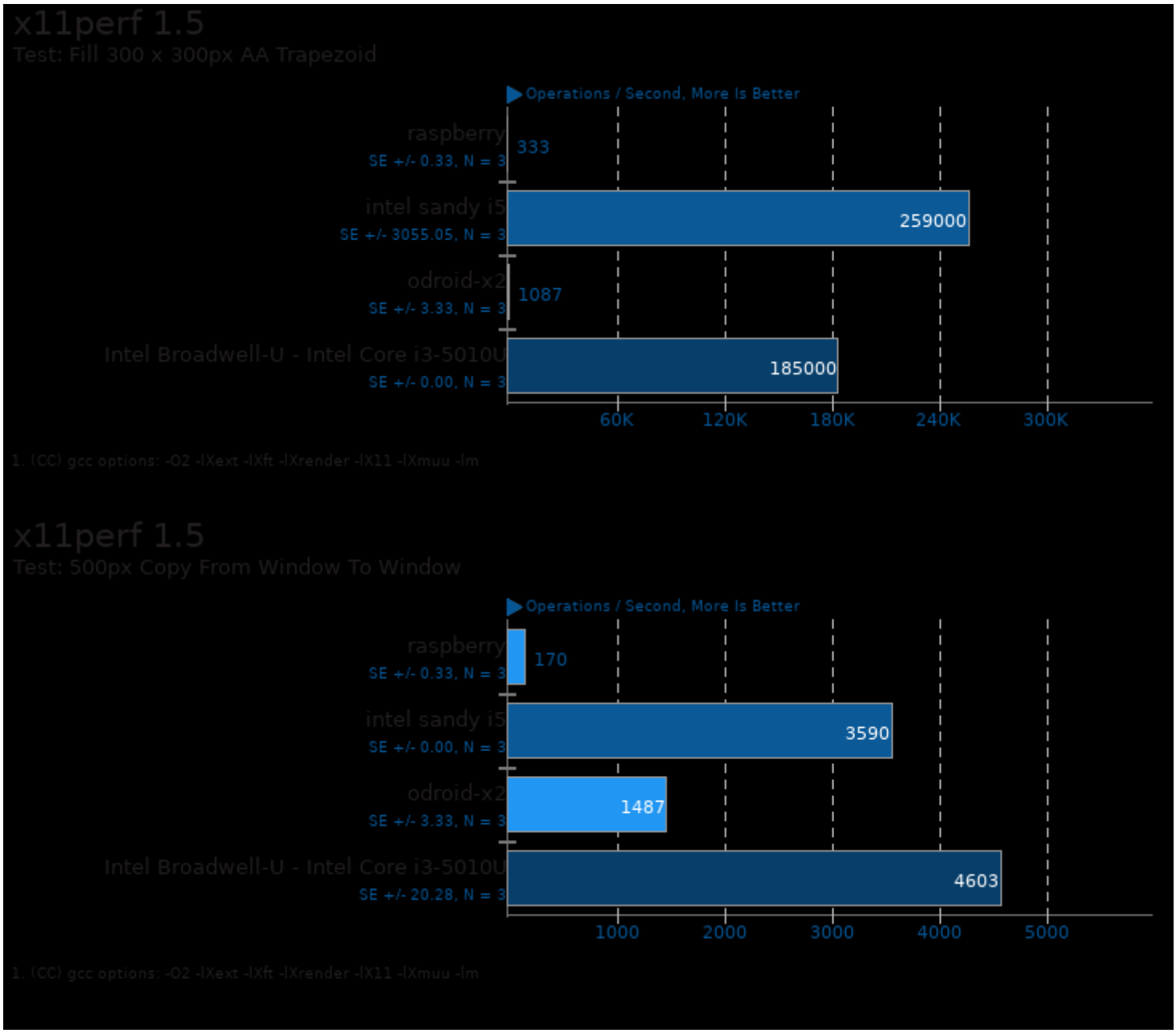
| | | | | | |
|---|---|---|---|---|---|
| **x11perf - P.X.5.S (Operations / Second)** | **6.60** | **162** | 32.17 | | 121 |
| **Normalized** | 4.07% | 100% | 19.86% | | 74.69% |
| **Standard Deviation** | 0% | 0% | 1.7% | | 0% |
| **x11perf - F.3.x.3.A.T (Operations / Second)** | **333** | **259000** | 1087 | | 185000 |
| **Normalized** | 0.13% | 100% | 0.42% | | 71.43% |
| **Standard Deviation** | 0.2% | 2% | 0.5% | | 0% |
| **x11perf - 5.C.F.W.T.W (Operations / Second)** | **170** | 3590 | 1487 | | **4603** |
| **Normalized** | 3.69% | 77.99% | 32.31% | | 100% |
| **Standard Deviation** | 0.3% | 0% | 0.4% | | 0.8% |
| **x11perf - C.5.F.P.T.P (Operations / Second)** | **199** | 4367 | 1940 | | **6020** |
| **Normalized** | 3.31% | 72.54% | 32.23% | | 100% |
| **Standard Deviation** | 0% | 25% | 1.4% | | 2.2% |
| **x11perf - 5.C.F.P.T.W (Operations / Second)** | **261** | 3610 | 1833 | | **5765** |
| **Normalized** | 4.53% | 62.62% | 31.8% | | 100% |
| **Standard Deviation** | 0% | 1% | 2.1% | | 7.1% |
| **x11perf - 5.C.F.W.T.W (Operations / Second)** | **268** | 3590 | 3510 | | **4620** |
| **Normalized** | 5.8% | 77.71% | 75.97% | | 100% |
| **Standard Deviation** | 0.2% | 0% | 1.7% | | 2.6% |
| **RAMspeed SMP - Add - Integer (MB/s)** | **187.92** | 11136 | 1576 | **12903** | 7365 |
| **Normalized** | 1.46% | 86.31% | 12.21% | 100% | 57.08% |
| **RAMspeed SMP - Copy - Integer (MB/s)** | **206.23** | 11222 | 2733 | **13168** | 7410 |
| **Normalized** | 1.57% | 85.23% | 20.76% | 100% | 56.28% |
| **RAMspeed SMP - Scale - Integer (MB/s)** | **207.46** | 11223 | 2662 | **13237** | 7413 |
| **Normalized** | 1.57% | 84.78% | 20.11% | 100% | 56% |
| **RAMspeed SMP - Triad - Integer (MB/s)** | **189.40** | 11108 | 1593 | **13090** | 7371 |
| **Normalized** | 1.45% | 84.86% | 12.17% | 100% | 56.31% |
| **RAMspeed SMP - Average - Integer (MB/s)** | **197.73** | 11161 | 2149 | **13175** | 7394 |
| **Normalized** | 1.5% | 84.72% | 16.31% | 100% | 56.12% |
| **RAMspeed SMP - Add - Floating Point (MB/s)** | **191.38** | 12550 | 1796 | **14993** | 8340 |
| **Normalized** | 1.28% | 83.7% | 11.98% | 100% | 55.63% |
| **RAMspeed SMP - Copy - Floating Point (MB/s)** | **241.79** | 11032 | 2216 | **13291** | 7375 |
| **Normalized** | 1.82% | 83% | 16.68% | 100% | 55.49% |
| **RAMspeed SMP - Scale - Floating Point (MB/s)** | **214** | 11236 | 2687 | **13235** | 7377 |
| **Normalized** | 1.62% | 84.89% | 20.31% | 100% | 55.74% |
| **RAMspeed SMP - Triad - Floating Point (MB/s)** | **191.27** | 12729 | 1848 | **15010** | 8346 |
| **Normalized** | 1.27% | 84.81% | 12.31% | 100% | 55.6% |

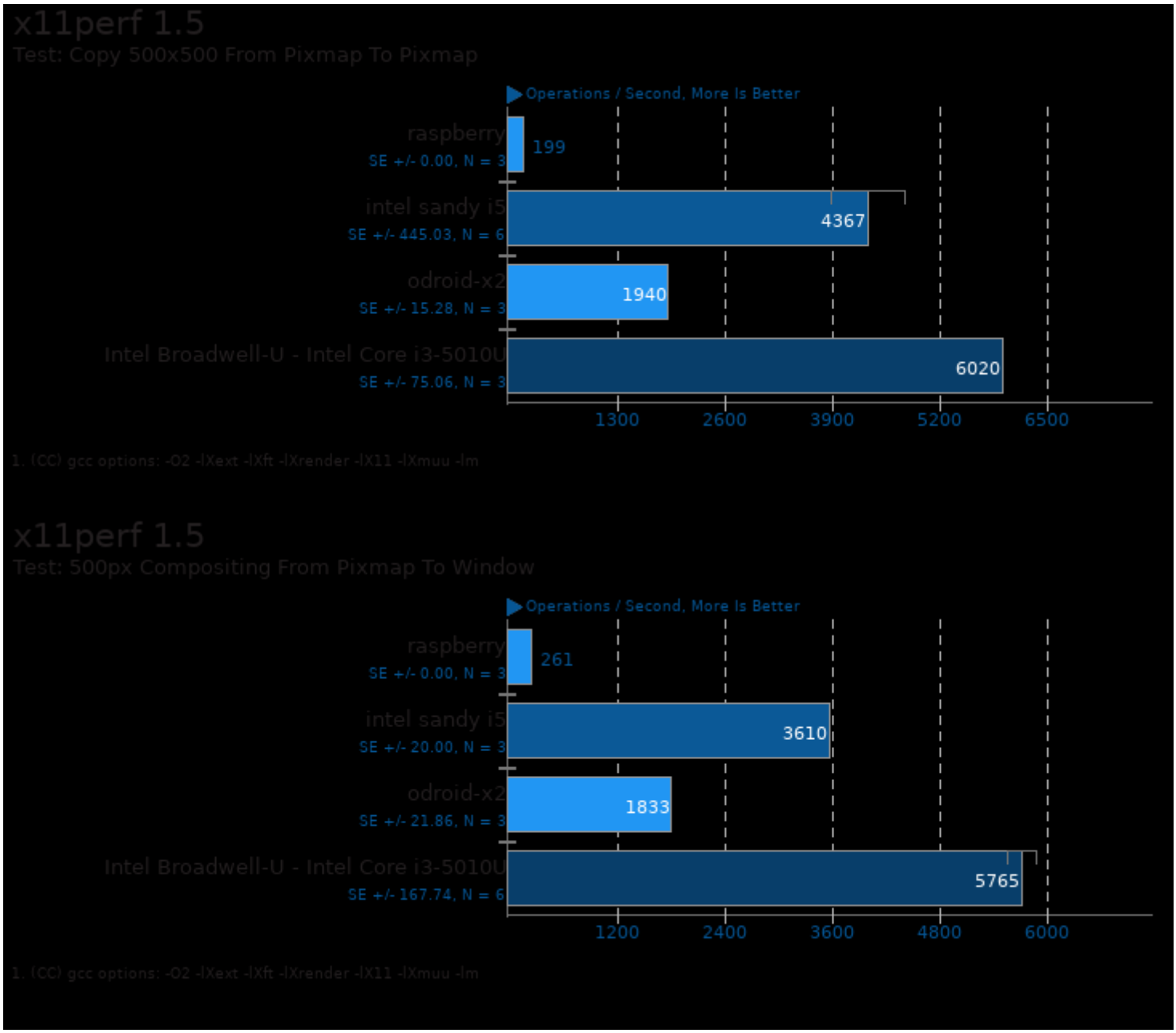
# mini computers

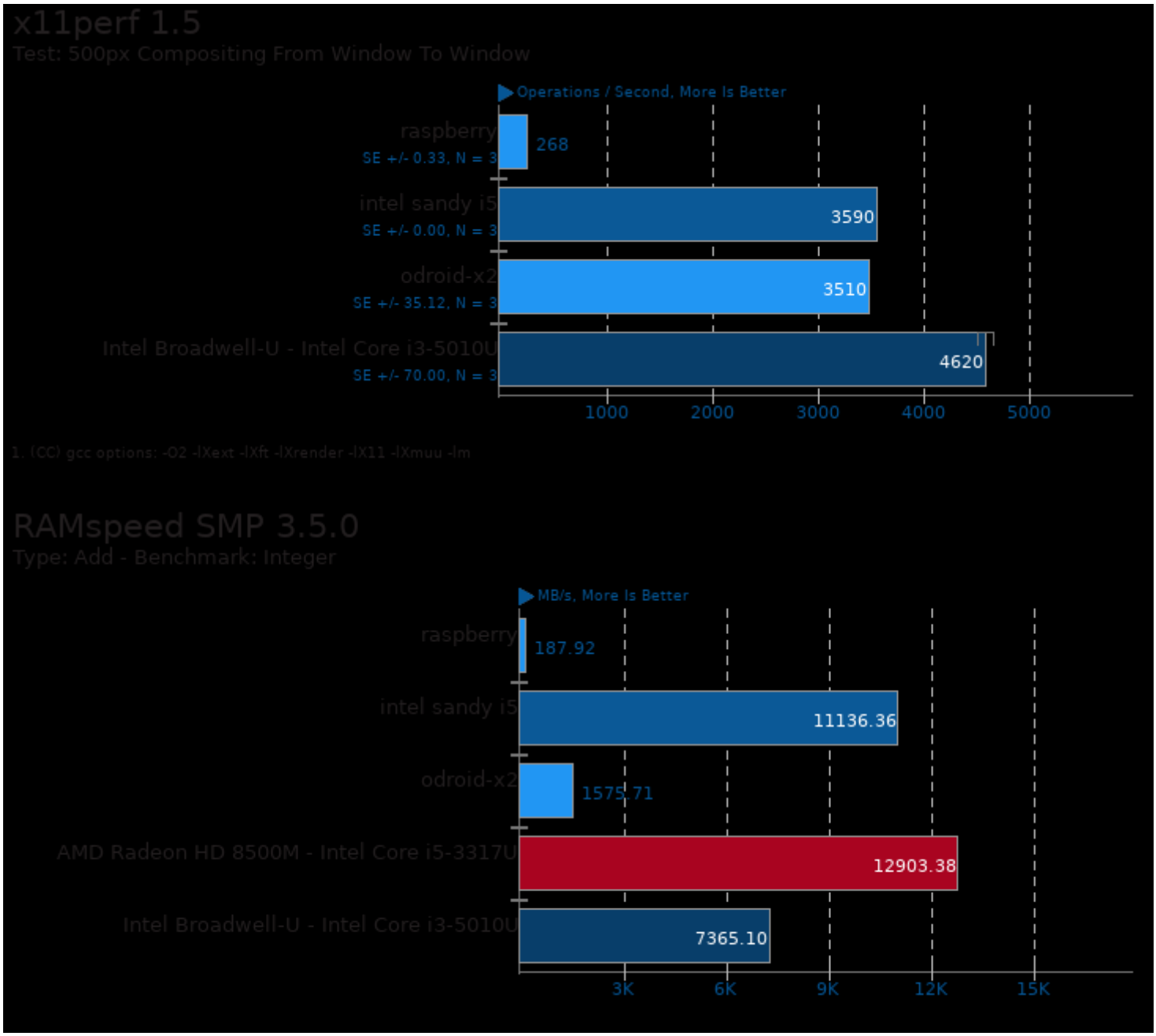
| | | | | | |
|---|---|---|---|---|---|
| **RAMspeed SMP - Average - Floating Point (MB/s)** | **209.55** | 11893 | 2150 | **14143** | 7859 |
| **Normalized** | 1.48% | 84.09% | 15.2% | 100% | 55.57% |
| **C-Ray - Total Time (sec)** | **5394** | 97.00 | 390.48 | 86.61 | **80.15** |
| **Normalized** | 1.49% | 82.63% | 20.53% | 92.54% | 100% |
| **Standard Deviation** | 0.3% | 0% | 0.5% | 0% | 0% |
| **dcraw - R.T.P.I.C (sec)** | **1713** | 80.47 | 438.81 | **79.06** | 85.69 |
| **Normalized** | 4.61% | 98.25% | 18.02% | 100% | 92.26% |
| **Standard Deviation** | 0.3% | 0.9% | 0.1% | 0.1% | 1% |
| **LAME MP3 Encoding - WAV To MP3 (sec)** | **389.13** | 18.40 | 79.11 | **18.11** | 21.99 |
| **Normalized** | 4.65% | 98.42% | 22.89% | 100% | 82.36% |
| **Standard Deviation** | 2.3% | 0.8% | 0.1% | 0.1% | 1.2% |
| **Sample Pi Program - P.T.S.v.4.1 (sec)** | **91.76** | 4.80 | 21.21 | 5.05 | **4.69** |
| **Normalized** | 5.11% | 97.71% | 22.11% | 92.87% | 100% |
| **Standard Deviation** | 0.2% | 0.1% | 0% | 0.3% | 1.5% |
| **PyBench - T.F.A.T.T** | **79878** | 2645 | 12200 | 3515 | **2539** |
| **Normalized** | 3.18% | 95.99% | 20.81% | 72.23% | 100% |
| **Standard Deviation** | 4.1% | 0.3% | 0.1% | 0.6% | 0.3% |
| **NGINX Benchmark - S.W.P.S (Reqs/sec)** | **377.34** | 18183 | 6206 | 15720 | **29254** |
| **Normalized** | 1.29% | 62.16% | 21.21% | 53.74% | 100% |
| **Standard Deviation** | 0.1% | 3.3% | 0.3% | 0.1% | 2% |
| **PHPBench - P.B.S (Score)** | **3103** | **88727** | 15480 | 78509 | 82658 |
| **Normalized** | 3.5% | 100% | 17.45% | 88.48% | 93.16% |
| **Standard Deviation** | 1.9% | 0.3% | 0% | 0.4% | 0.8% |

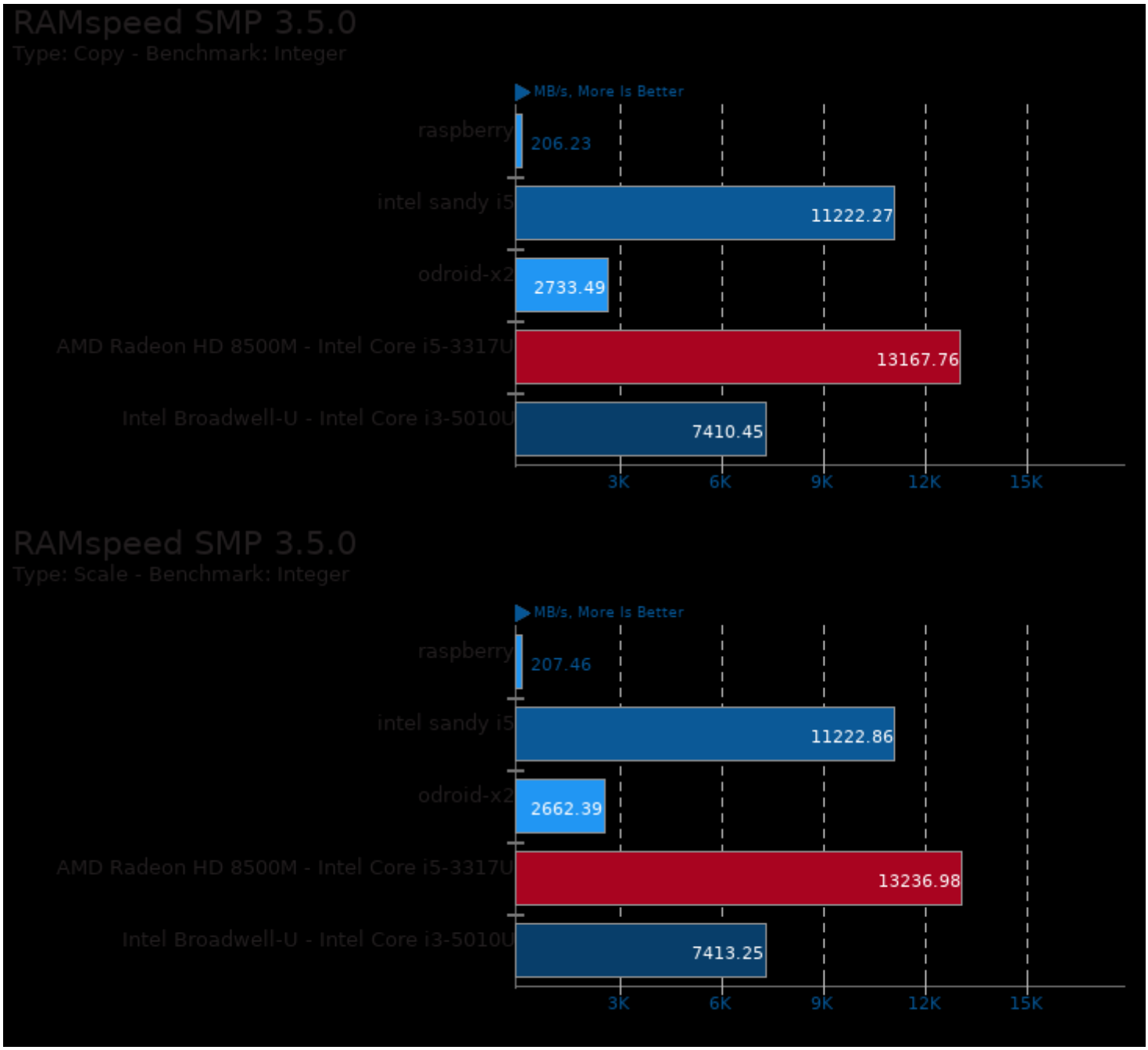

x11perf 1.5
Test: 500px PutImage Square
Operations / Second, More Is Better
raspberry
SE +/- 0.06, N = 3
61.00
intel sandy i5
SE +/- 3.33, N = 3
3037.00
odroid-x2
SE +/- 0.88, N = 3
174.00
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 191.84, N = 6
3157.00
700
1400
2100
2800
3500
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm
x11perf 1.5
Test: Scrolling 500 x 500 px
Operations / Second, More Is Better
raspberry
SE +/- 0.33, N = 3
290
intel sandy i5
SE +/- 0.00, N = 3
3580
odroid-x2
SE +/- 36.06, N = 3
3970
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 66.92, N = 3
4067
900
1800
2700
3600
4500
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm

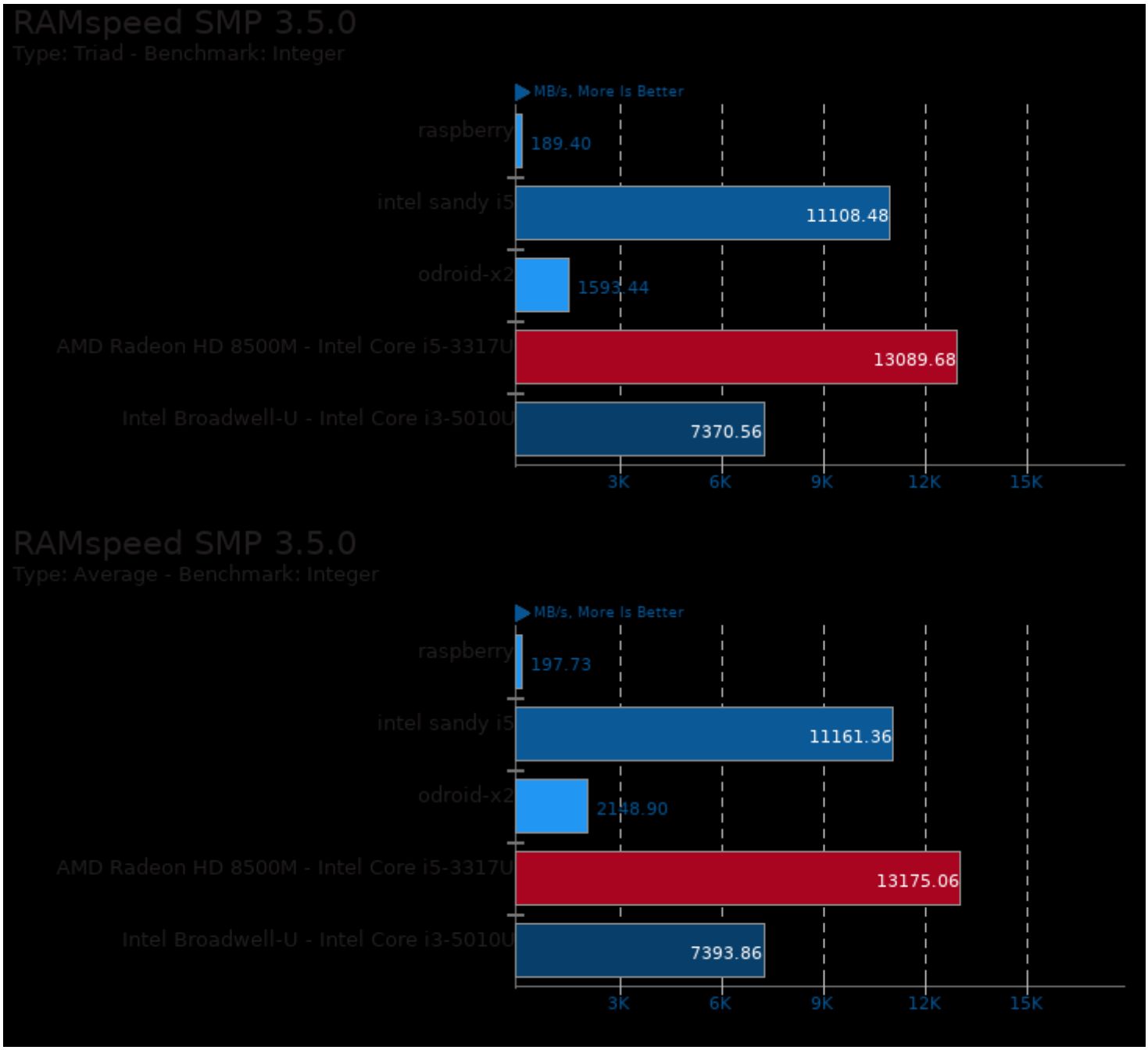

x11perf 1.5
Test: Char in 80-char aa line
Operations / Second, More Is Better
raspberry
SE +/- 57.74, N = 3
31700
intel sandy i5
SE +/- 120185.04, N = 3
16233333
odroid-x2
SE +/- 3844.19, N = 3
241333
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 88191.71, N = 3
12733333
3M
6M
9M
12M
15M
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm
x11perf 1.5
Test: PutImage XY 500x500 Square
Operations / Second, More Is Better
raspberry
SE +/- 0.00, N = 3
6.60
intel sandy i5
SE +/- 0.00, N = 3
162.00
odroid-x2
SE +/- 0.32, N = 3
32.17
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 0.00, N = 3
121.00
40
80
120
160
200
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm

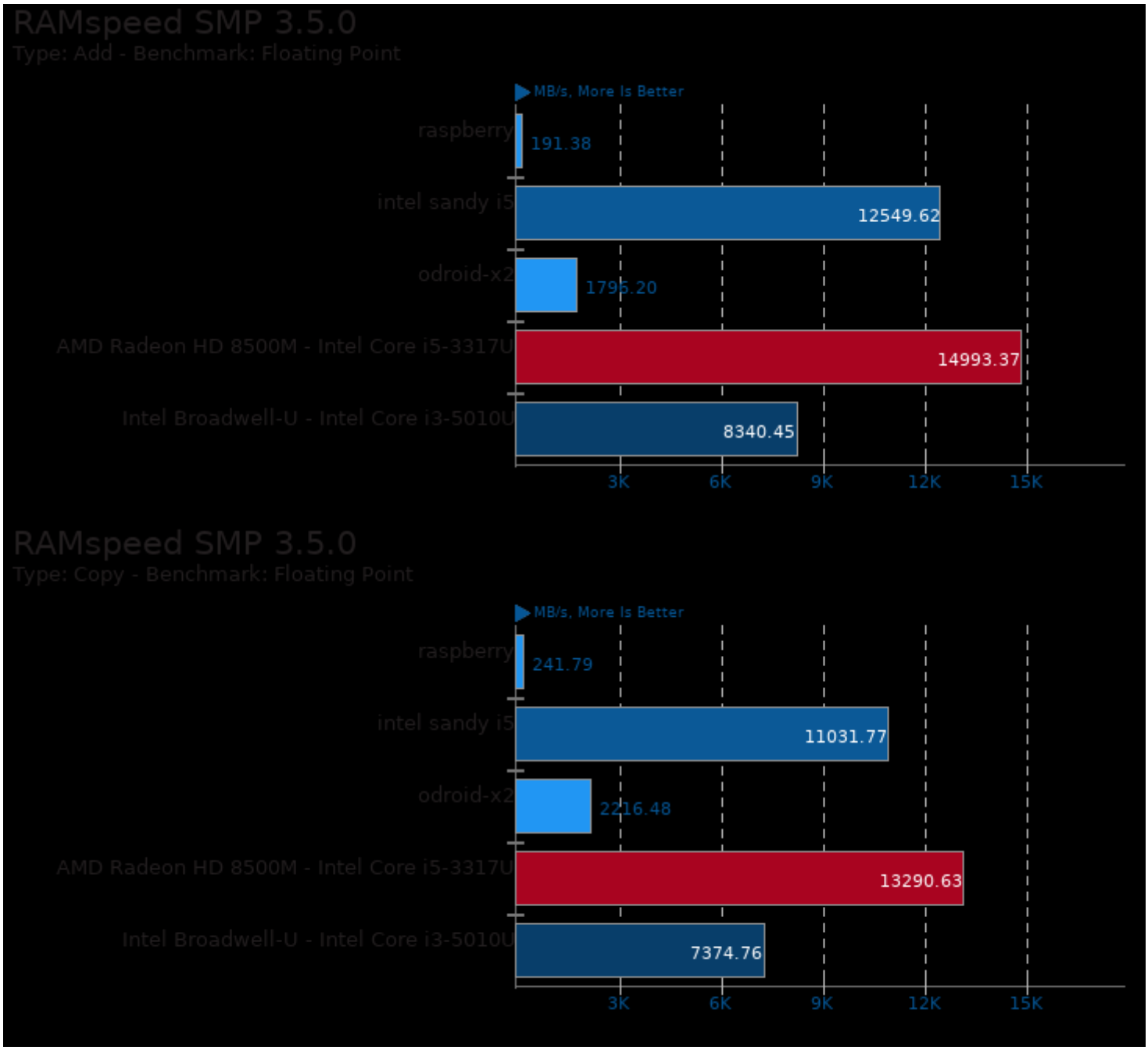

x11perf 1.5
Test: Fill 300 x 300px AA Trapezoid
Operations / Second, More Is Better
raspberry
SE +/- 0.33, N = 3
333
intel sandy i5
SE +/- 3055.05, N = 3
259000
odroid-x2
SE +/- 3.33, N = 3
1087
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 0.00, N = 3
185000
60K
120K
180K
240K
300K
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm
x11perf 1.5
Test: 500px Copy From Window To Window
Operations / Second, More Is Better
raspberry
SE +/- 0.33, N = 3
170
intel sandy i5
SE +/- 0.00, N = 3
3590
odroid-x2
SE +/- 3.33, N = 3
1487
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 20.28, N = 3
4603
1000
2000
3000
4000
5000
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm

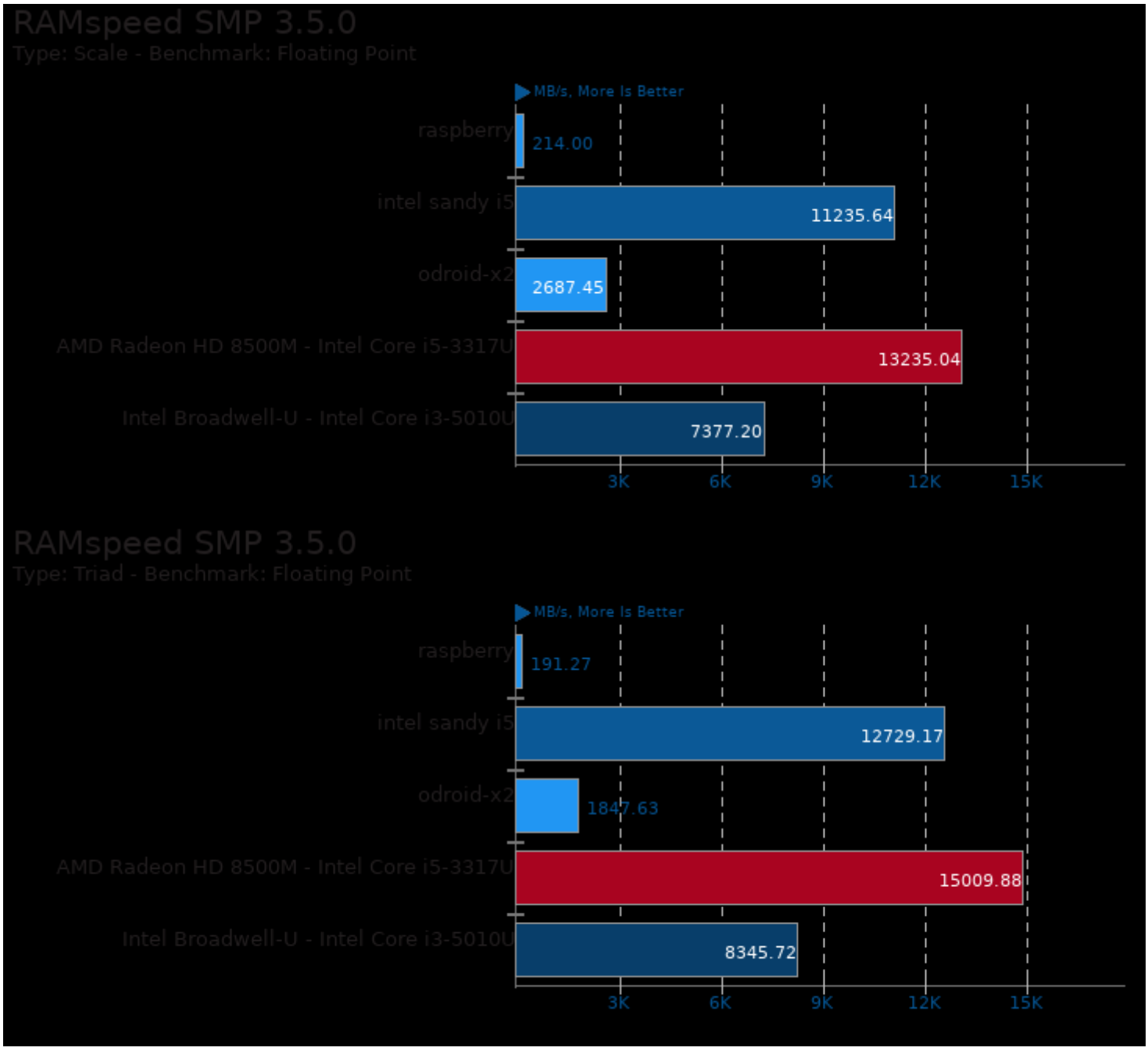

x11perf 1.5
Test: Copy 500x500 From Pixmap To Pixmap
Operations / Second, More Is Better
raspberry
SE +/- 0.00, N = 3
199
intel sandy i5
SE +/- 445.03, N = 6
4367
odroid-x2
SE +/- 15.28, N = 3
1940
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 75.06, N = 3
6020
1300
2600
3900
5200
6500
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm
x11perf 1.5
Test: 500px Compositing From Pixmap To Window
Operations / Second, More Is Better
raspberry
SE +/- 0.00, N = 3
261
intel sandy i5
SE +/- 20.00, N = 3
3610
odroid-x2
SE +/- 21.86, N = 3
1833
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 167.74, N = 6
5765
1200
2400
3600
4800
6000
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm

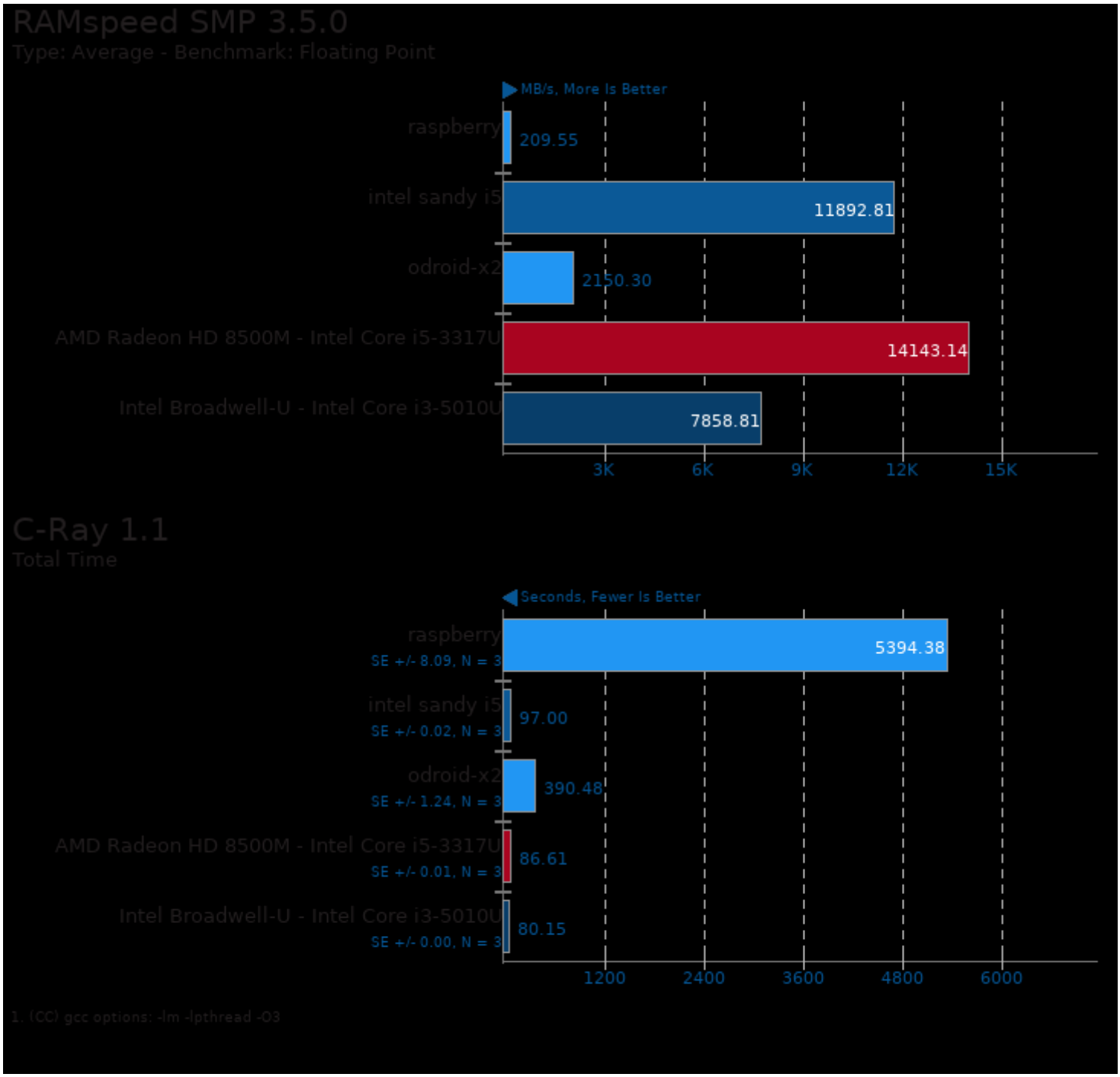

x11perf 1.5
Test: 500px Compositing From Window To Window
Operations / Second, More Is Better
raspberry
SE +/- 0.33, N = 3
268
intel sandy i5
SE +/- 0.00, N = 3
3590
odroid-x2
SE +/- 35.12, N = 3
3510
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 70.00, N = 3
4620
1000
2000
3000
4000
5000
1. (CC) gcc options: -O2 -lXext -lXft -lXrender -lX11 -lXmuu -lm
RAMspeed SMP 3.5.0
Type: Add - Benchmark: Integer
MB/s, More Is Better
raspberry
187.92
intel sandy i5
11136.36
odroid-x2
1575.71
AMD Radeon HD 8500M - Intel Core i5-3317U
12903.38
Intel Broadwell-U - Intel Core i3-5010U
7365.10
3K
6K
9K
12K
15K

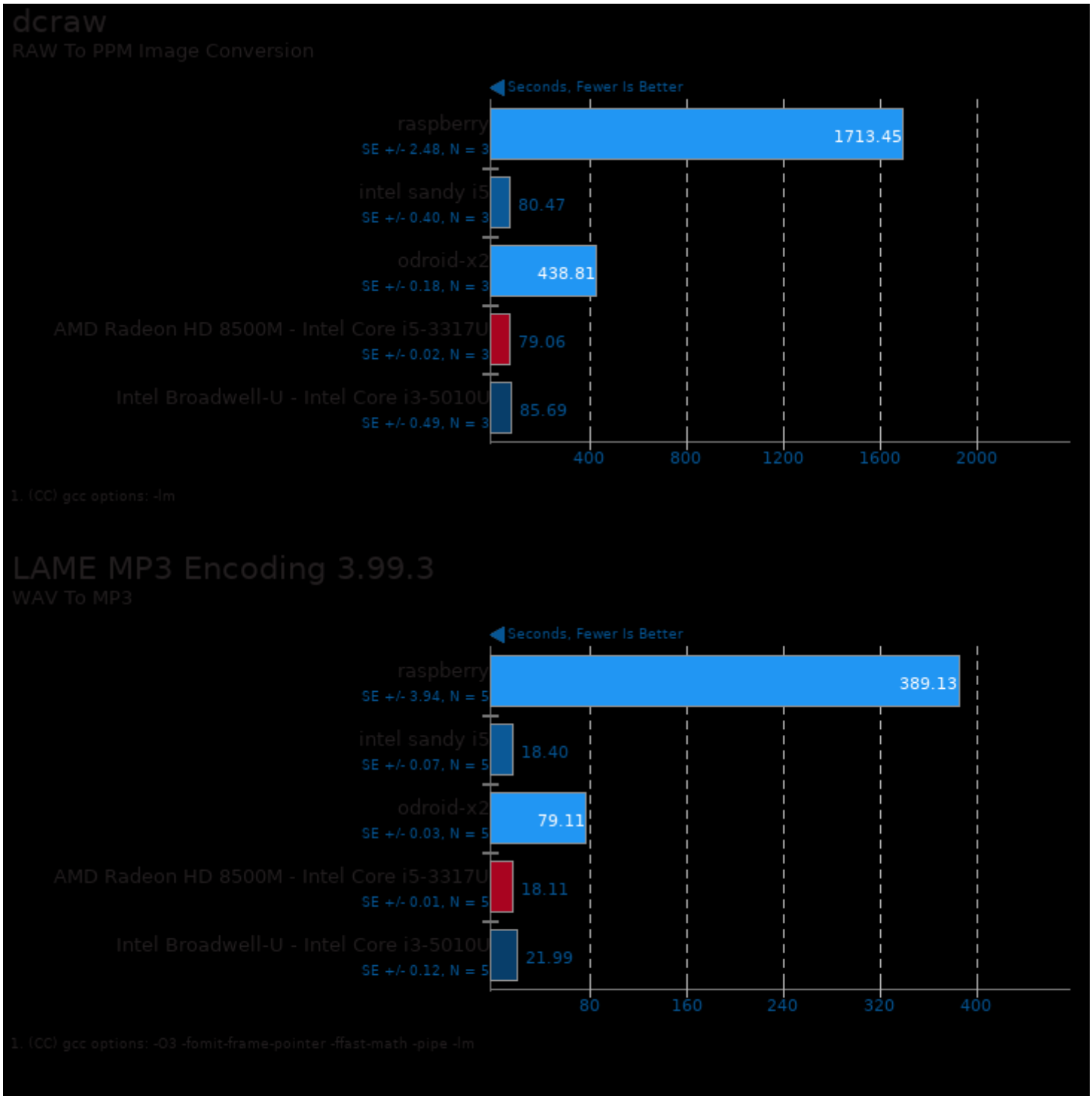

RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Integer
MB/s, More Is Better
raspberry
206.23
intel sandy i5
11222.27
odroid-x2
2733.49
AMD Radeon HD 8500M - Intel Core i5-3317U
13167.76
Intel Broadwell-U - Intel Core i3-5010U
7410.45
3K
6K
9K
12K
15K
RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Integer
MB/s, More Is Better
raspberry
207.46
intel sandy i5
11222.86
odroid-x2
2662.39
AMD Radeon HD 8500M - Intel Core i5-3317U
13236.98
Intel Broadwell-U - Intel Core i3-5010U
7413.25
3K
6K
9K
12K
15K

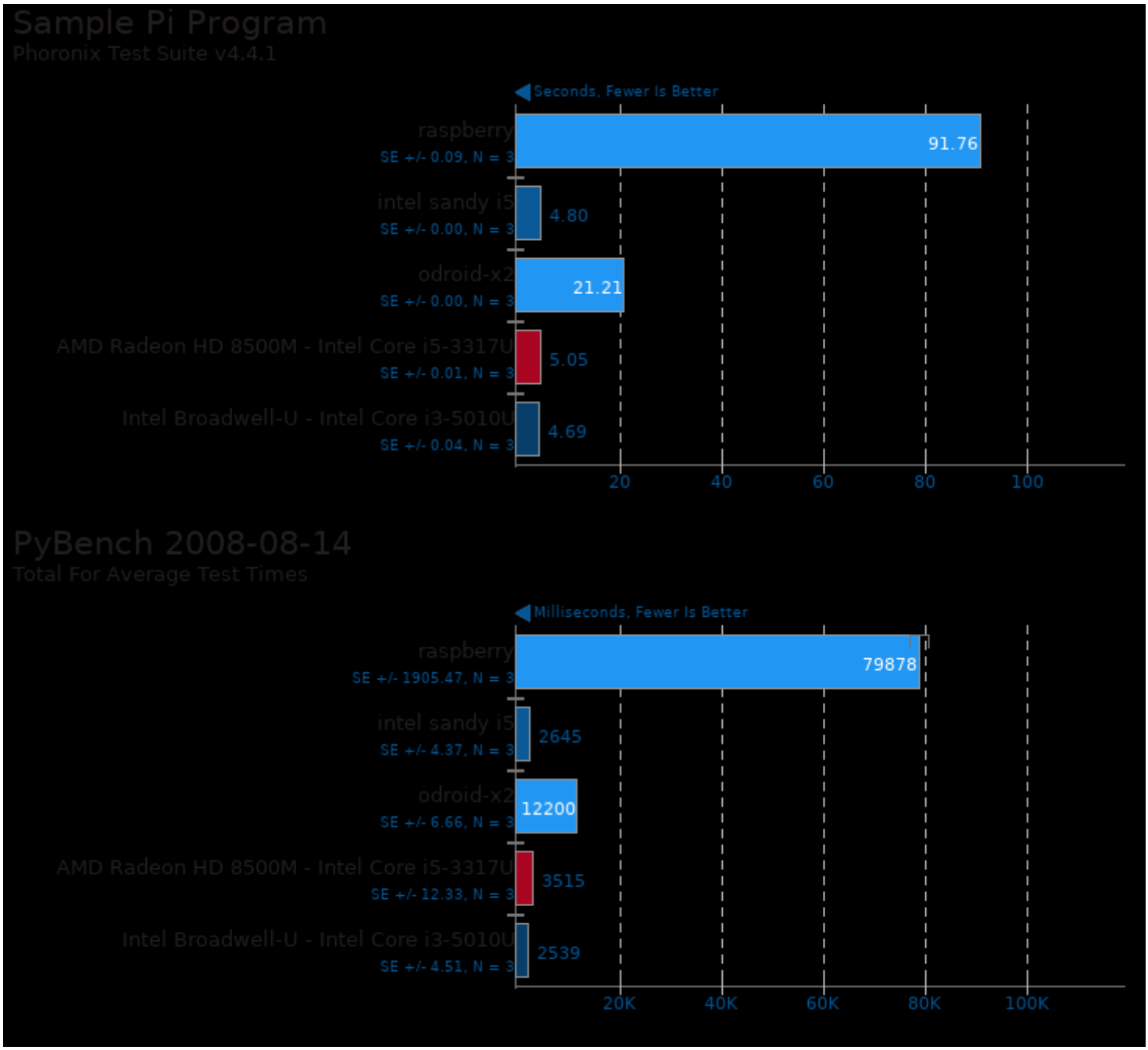

RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Integer
MB/s, More Is Better
raspberry
189.40
intel sandy i5
11108.48
odroid-x2
1593.44
AMD Radeon HD 8500M - Intel Core i5-3317U
13089.68
Intel Broadwell-U - Intel Core i3-5010U
7370.56
3K
6K
9K
12K
15K
RAMspeed SMP 3.5.0
Type: Average - Benchmark: Integer
MB/s, More Is Better
raspberry
197.73
intel sandy i5
11161.36
odroid-x2
2148.90
AMD Radeon HD 8500M - Intel Core i5-3317U
13175.06
Intel Broadwell-U - Intel Core i3-5010U
7393.86
3K
6K
9K
12K
15K

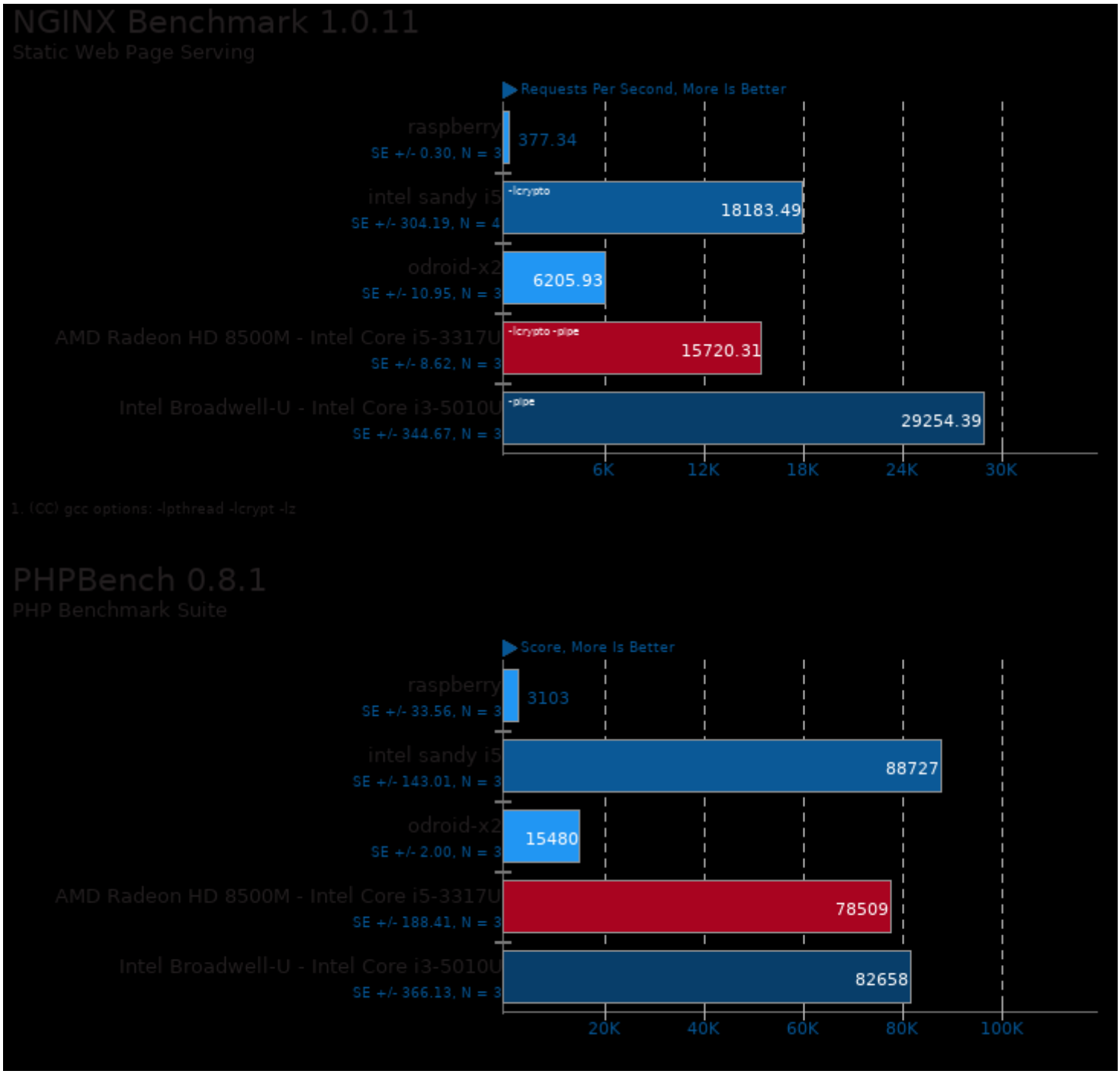

RAMspeed SMP 3.5.0
Type: Add - Benchmark: Floating Point
MB/s, More Is Better
raspberry
191.38
intel sandy i5
12549.62
odroid-x2
1795.20
AMD Radeon HD 8500M - Intel Core i5-3317U
14993.37
Intel Broadwell-U - Intel Core i3-5010U
8340.45
3K
6K
9K
12K
15K
RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Floating Point
MB/s, More Is Better
raspberry
241.79
intel sandy i5
11031.77
odroid-x2
2216.48
AMD Radeon HD 8500M - Intel Core i5-3317U
13290.63
Intel Broadwell-U - Intel Core i3-5010U
7374.76
3K
6K
9K
12K
15K


RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Floating Point
MB/s, More Is Better
raspberry
214.00
intel sandy i5
11235.64
odroid-x2
2687.45
AMD Radeon HD 8500M - Intel Core i5-3317U
13235.04
Intel Broadwell-U - Intel Core i3-5010U
7377.20
3K
6K
9K
12K
15K
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Floating Point
MB/s, More Is Better
raspberry
191.27
intel sandy i5
12729.17
odroid-x2
1847.63
AMD Radeon HD 8500M - Intel Core i5-3317U
15009.88
Intel Broadwell-U - Intel Core i3-5010U
8345.72
3K
6K
9K
12K
15K


RAMspeed SMP 3.5.0
Type: Average - Benchmark: Floating Point
MB/s, More Is Better
raspberry
209.55
intel sandy i5
11892.81
odroid-x2
2150.30
AMD Radeon HD 8500M - Intel Core i5-3317U
14143.14
Intel Broadwell-U - Intel Core i3-5010U
7858.81
3K
6K
9K
12K
15K
C-Ray 1.1
Total Time
Seconds, Fewer Is Better
raspberry
SE +/- 8.09, N = 3
5394.38
intel sandy i5
SE +/- 0.02, N = 3
97.00
odroid-x2
SE +/- 1.24, N = 3
390.48
AMD Radeon HD 8500M - Intel Core i5-3317U
SE +/- 0.01, N = 3
86.61
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 0.00, N = 3
80.15
1200
2400
3600
4800
6000
1. (CC) gcc options: -lm -lpthread -O3

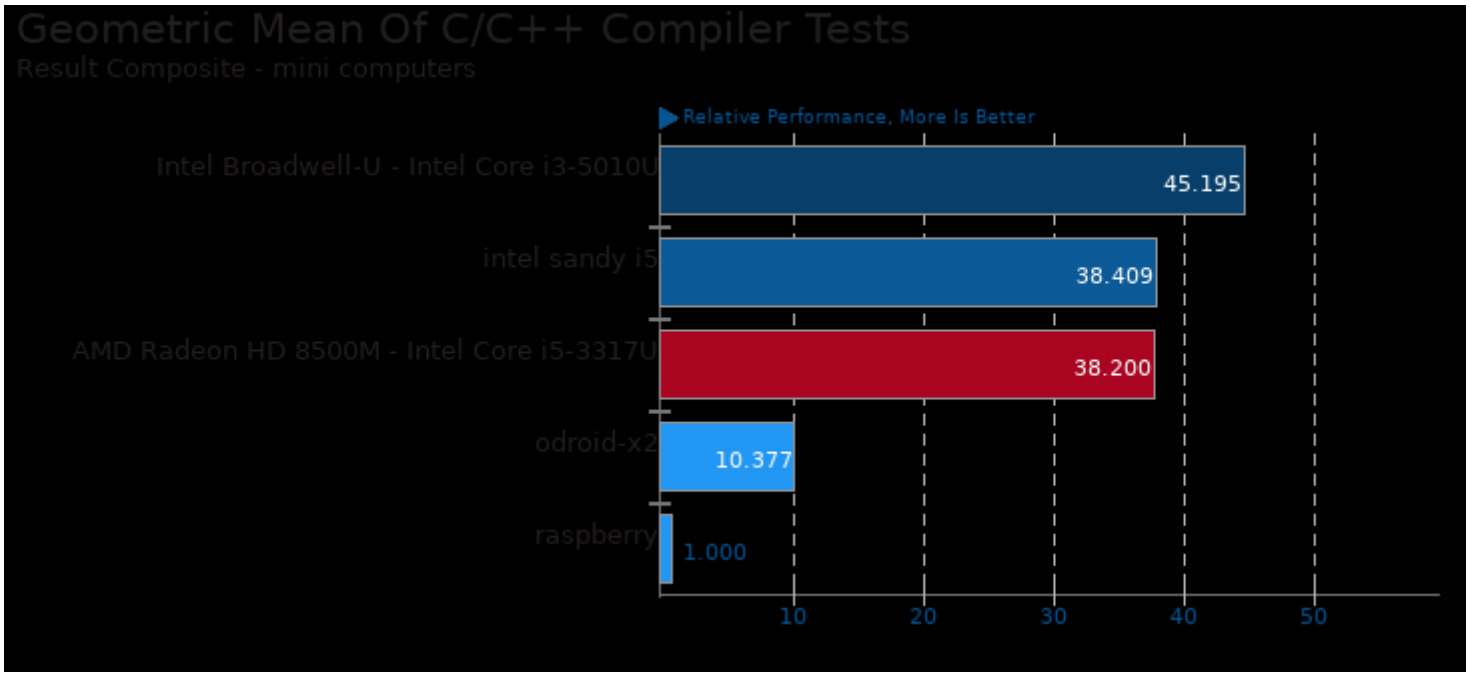

dcraw
RAW To PPM Image Conversion
Seconds, Fewer Is Better
raspberry
SE +/- 2.48, N = 3
1713.45
intel sandy i5
SE +/- 0.40, N = 3
80.47
odroid-x2
SE +/- 0.18, N = 3
438.81
AMD Radeon HD 8500M - Intel Core i5-3317U
SE +/- 0.02, N = 3
79.06
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 0.49, N = 3
85.69
400
800
1200
1600
2000
1. (CC) gcc options: -lm
LAME MP3 Encoding 3.99.3
WAV To MP3
Seconds, Fewer Is Better
raspberry
SE +/- 3.94, N = 5
389.13
intel sandy i5
SE +/- 0.07, N = 5
18.40
odroid-x2
SE +/- 0.03, N = 5
79.11
AMD Radeon HD 8500M - Intel Core i5-3317U
SE +/- 0.01, N = 5
18.11
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 0.12, N = 5
21.99
80
160
240
320
400
1. (CC) gcc options: -O3 -fomit-frame-pointer -ffast-math -pipe -lm


Sample Pi Program
Phoronix Test Suite v4.4.1
Seconds, Fewer Is Better
raspberry
SE +/- 0.09, N = 3
91.76
intel sandy i5
SE +/- 0.00, N = 3
4.80
odroid-x2
SE +/- 0.00, N = 3
21.21
AMD Radeon HD 8500M - Intel Core i5-3317U
SE +/- 0.01, N = 3
5.05
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 0.04, N = 3
4.69
20
40
60
80
100
PyBench 2008-08-14
Total For Average Test Times
Milliseconds, Fewer Is Better
raspberry
SE +/- 1905.47, N = 3
79878
intel sandy i5
SE +/- 4.37, N = 3
2645
odroid-x2
SE +/- 6.66, N = 3
12200
AMD Radeon HD 8500M - Intel Core i5-3317U
SE +/- 12.33, N = 3
3515
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 4.51, N = 3
2539
20K
40K
60K
80K
100K

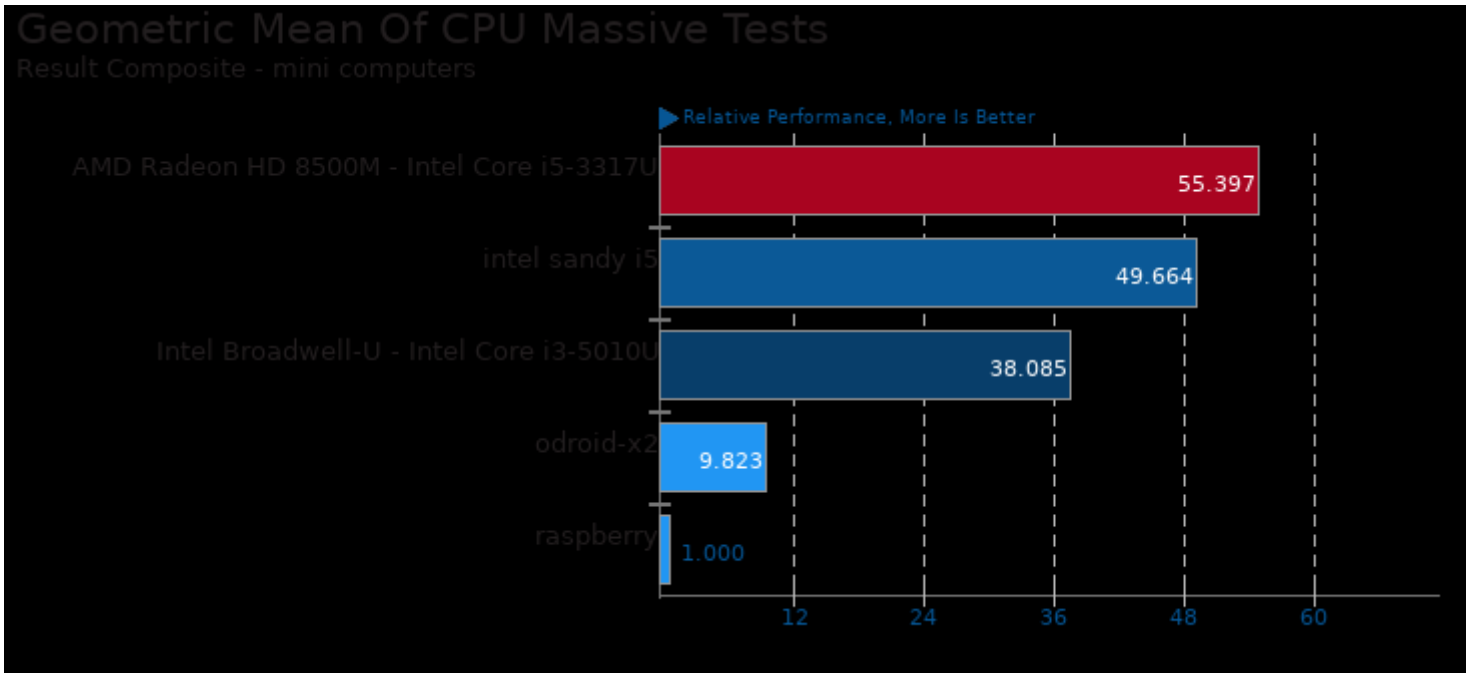

NGINX Benchmark 1.0.11
Static Web Page Serving
Requests Per Second, More Is Better
raspberry
SE +/- 0.30, N = 3
377.34
intel sandy i5
SE +/- 304.19, N = 4
-lcrypto
18183.49
odroid-x2
SE +/- 10.95, N = 3
6205.93
AMD Radeon HD 8500M - Intel Core i5-3317U
SE +/- 8.62, N = 3
-lcrypto -pipe
15720.31
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 344.67, N = 3
-pipe
29254.39
6K
12K
18K
24K
30K
1. (CC) gcc options: -lpthread -lcrypt -lz
PHPBench 0.8.1
PHP Benchmark Suite
Score, More Is Better
raspberry
SE +/- 33.56, N = 3
3103
intel sandy i5
SE +/- 143.01, N = 3
88727
odroid-x2
SE +/- 2.00, N = 3
15480
AMD Radeon HD 8500M - Intel Core i5-3317U
SE +/- 188.41, N = 3
78509
Intel Broadwell-U - Intel Core i3-5010U
SE +/- 366.13, N = 3
82658
20K
40K
60K
80K
100K

# mini computers

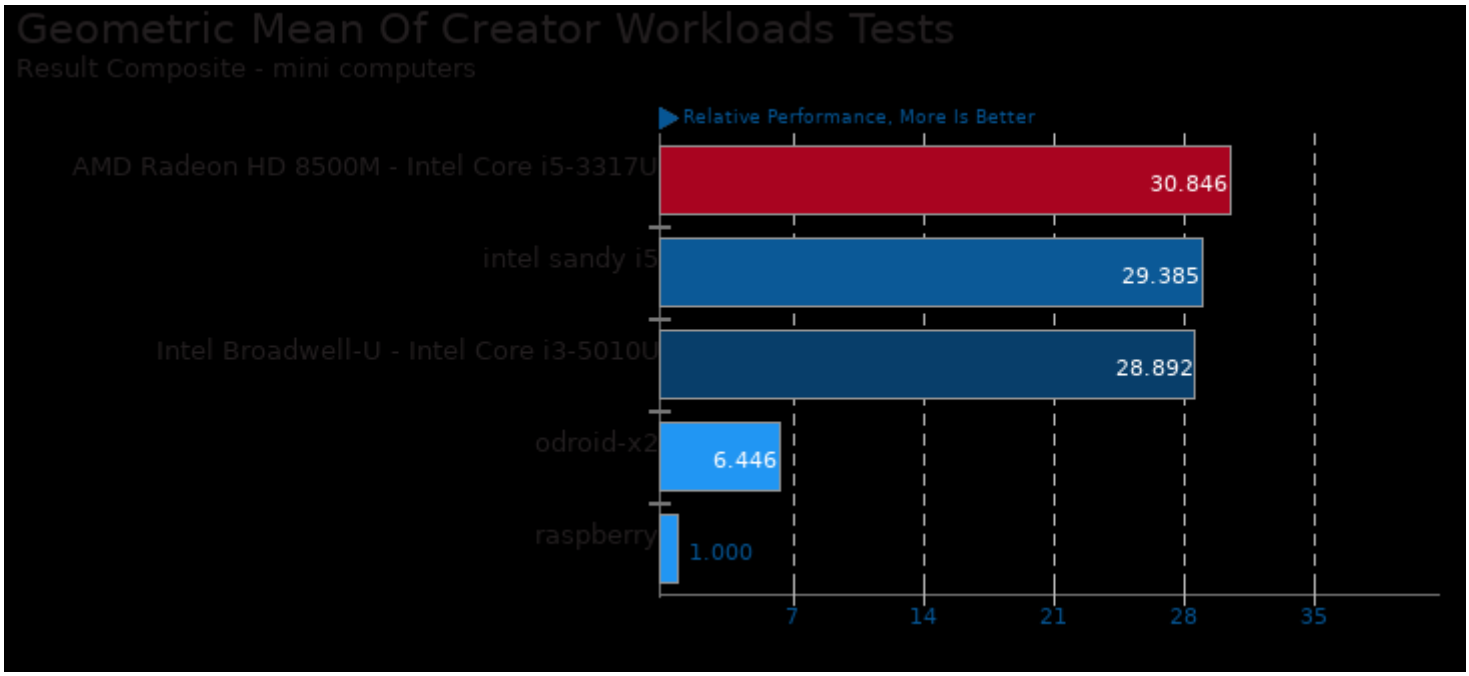
These geometric means are based upon test groupings / test suites for this result file.



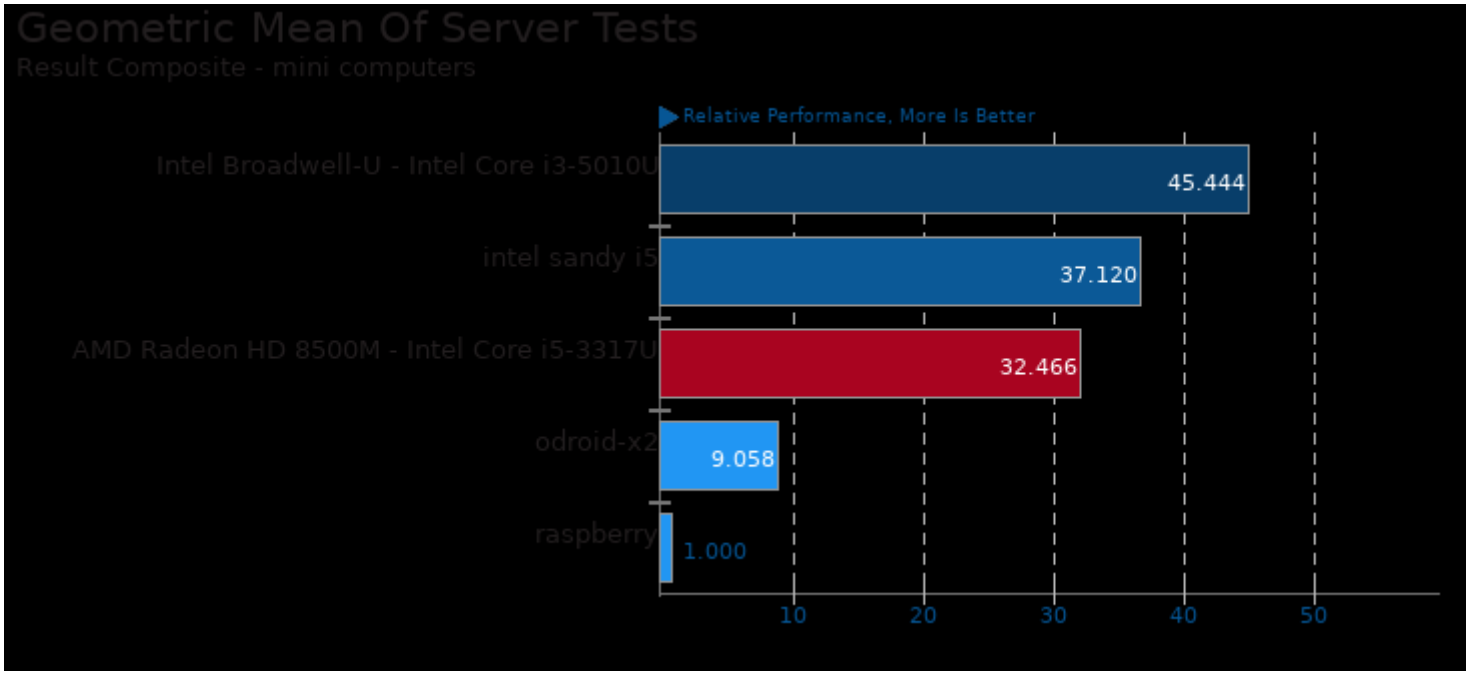

Geometric mean based upon tests: pts/c-ray, pts/encode-mp3 and pts/nginx



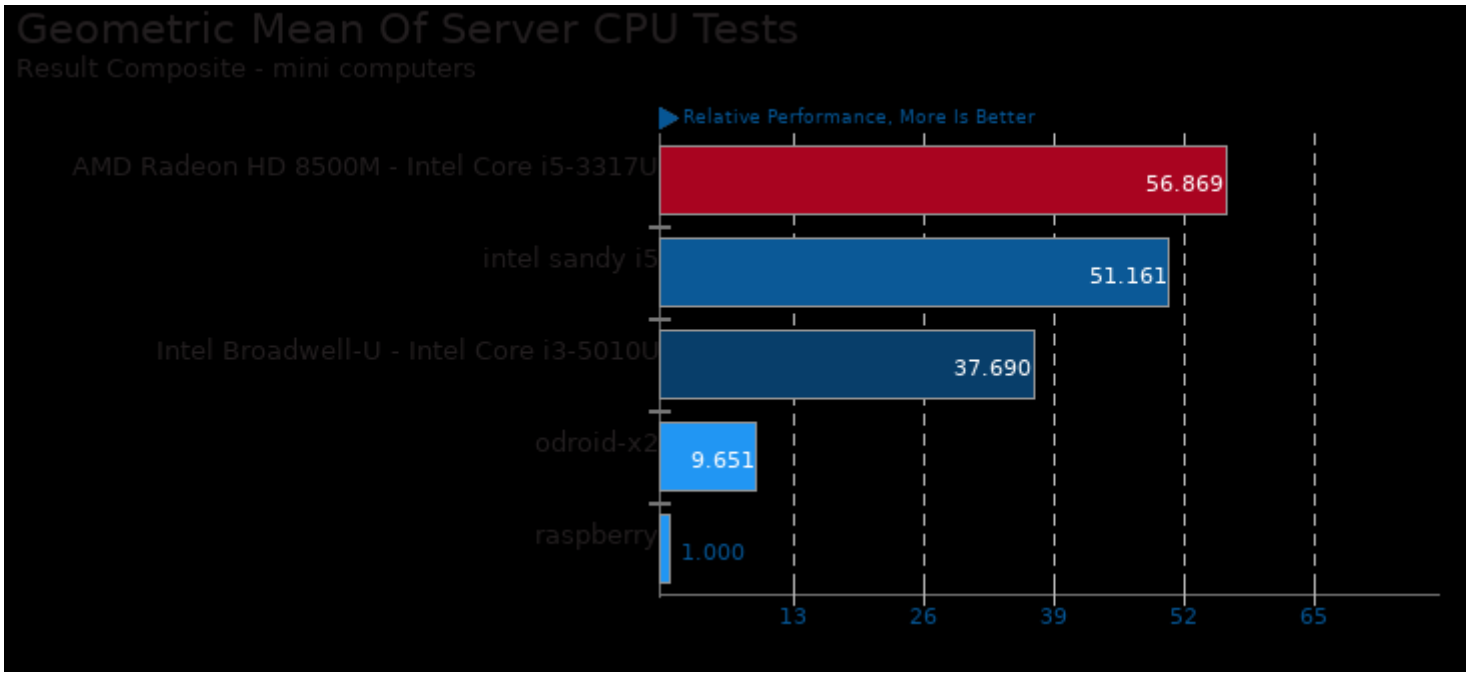

Geometric mean based upon tests: pts/c-ray, pts/encode-mp3, pts/nginx, pts/phpbench and pts/ramspeed



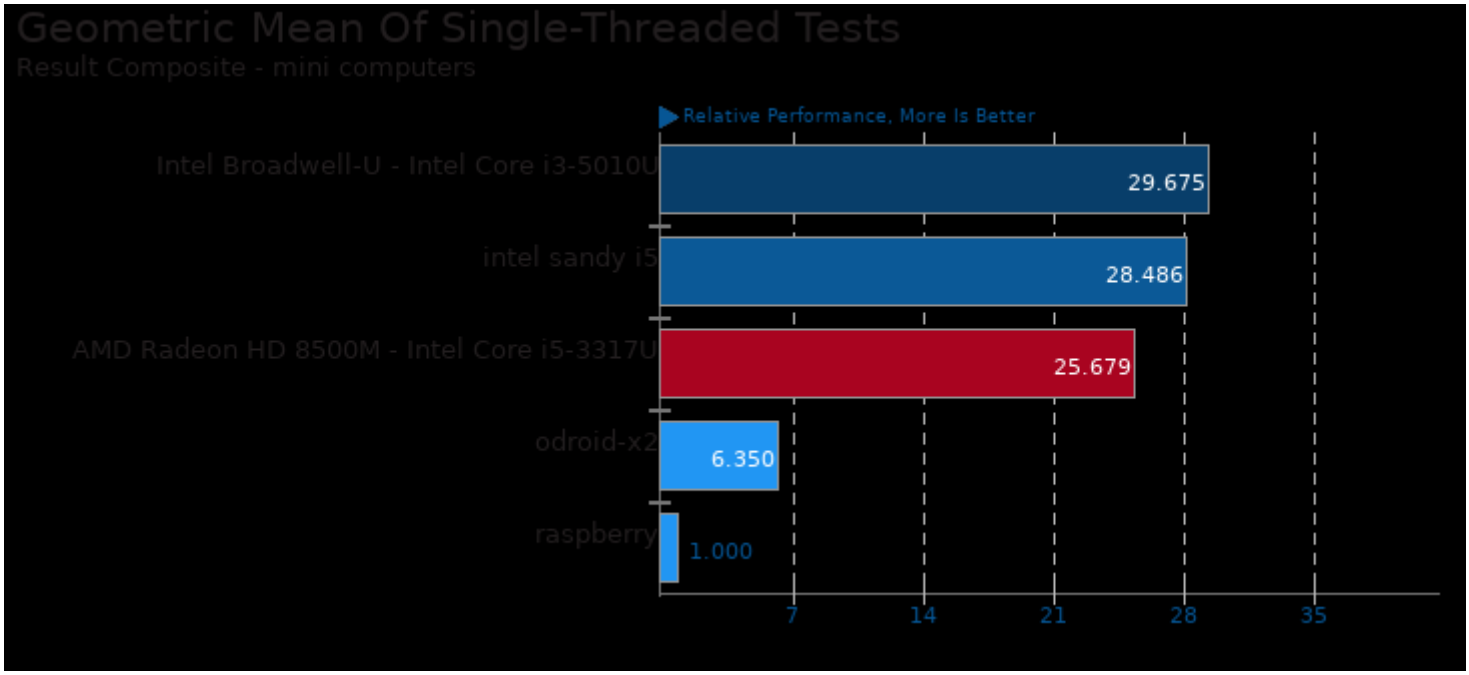

Geometric mean based upon tests: pts/c-ray, pts/encode-mp3 and pts/dcraw




Geometric mean based upon tests: pts/nginx and pts/phpbench




Geometric mean based upon tests: pts/c-ray, pts/pybench, pts/phpbench and pts/ramspeed




Geometric mean based upon tests: pts/dcraw, pts/encode-mp3, pts/pybench, pts/phpbench and pts/nginx

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:44.*