www.phoronix-test-suite.com

Bay Trail screen

Running pts/sqlite-1.8.0, pts/ramspeed-1.4.0, pts/vpxenc-1.1.0, pts/c-ray-1.1.0, pts/dcraw-1.1.0, pts/ffmpeg-2.3.1, pts/pybench-1.0.0 via the Phoronix Test Suite.

Automated Executive Summary

Celeron J-1900 had the most wins, coming in first place for 90% of the tests.

Based on the geometric mean of all complete results, the fastest (Celeron J-1900) was 4.184x the speed of the slowest (Banana Pi M3). Flex 10 external display was 0.755x the speed of Celeron J-1900 and Banana Pi M3 was 0.316x the speed of Flex 10 external display.

Test Systems:

Flex 10 external display

Processor: Intel Celeron N2810 @ 1.50GHz (2 Cores), Motherboard: LENOVO MELON, Chipset: Intel Atom Z36xxx/Z37xxx, Memory: 2048MB, Disk: 320GB HGST HTS545032A7 + 120GB C50, Graphics: Intel Atom

Z36xxx/Z37xxx & Display (755MHz), Audio: Intel Atom Z36xxx/Z37xxx, Network: Qualcomm Atheros QCA9565 / AR9565

OS: Ubuntu 14.10, Kernel: 3.16.0-23-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.16.0, Display Driver: intel 2.99.914, OpenGL: 3.3 Mesa 10.3.0, Compiler: GCC 4.9.1, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: SNA
System Notes: Disk Scheduler: DEADLINE. Python 2.7.8.

Celeron J-1900

Processor: Intel Celeron J1900 @ 2.90GHz (4 Cores), Motherboard: ASRock Q1900B-ITX, Chipset: Intel Atom Z36xxx/Z37xxx, Memory: 8192MB, Disk: 120GB C50, Graphics: Intel Atom Z36xxx/Z37xxx & Display (854MHz), Audio: Intel Atom Z36xxx/Z37xxx, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.16.0-23-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.16.0, Display Driver: intel 2.99.914, OpenGL: 3.3 Mesa 10.3.0, Compiler: GCC 4.9.1, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: SNA
System Notes: Disk Scheduler: DEADLINE. Python 2.7.8.

Banana Pi M3

Processor: ARMv7 rev 5 @ 1.61GHz (8 Cores), Motherboard: sun8i, Memory: 2048MB, Disk: 8GB 8WPD3R + 16GB SD16G

OS: Ubuntu 15.10, Kernel: 3.4.39-BPI-M3-aufs (armv7l), Desktop: MATE 1.10.2, Display Server: X Server 1.17.2, OpenGL: 2.1 Mesa 10.5.4, Compiler: GCC 5.2.1 20151010, File-System: aufs, 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,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: sunxi-iks interactive
System Notes: Disk Scheduler: CFQ. Python 2.7.10.
Disk Scheduler Notes: CFQ

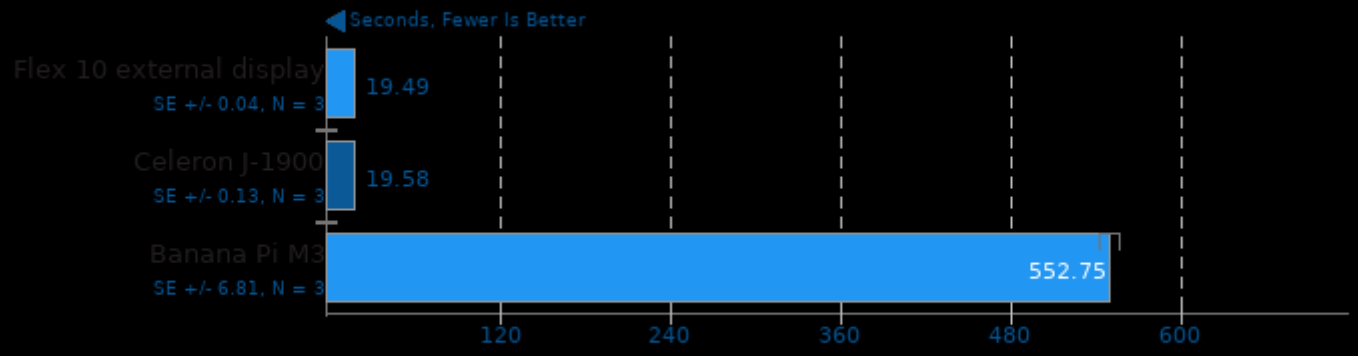
Bay Trail screen

	Flex 10 external display	Celeron J-1900	Banana Pi M3
SQLite - D.T.D (sec)	**19.49**	19.58	**552.75**
Normalized	100%	99.54%	3.53%
Standard Deviation	0.4%	1.1%	2.1%
OpenArena - 1920 x 1080 (FPS)	**9.26**	**13.27**	
Normalized	69.78%	100%	
Standard Deviation	3.4%	1.2%	
World of Padman - 1920 x 1080 (FPS)	**47.67**	**53.77**	
Normalized	88.66%	100%	
Standard Deviation	0.9%	0.9%	
Urban Terror - 1920 x 1080 (FPS)	**23.07**	**27.97**	
Normalized	82.48%	100%	
Standard Deviation	1%	0.2%	
Xonotic - 1920 x 1080 - Low (FPS)	**46.02**	**52.11**	
Normalized	88.31%	100%	
Standard Deviation	0.5%	0.4%	
RAMspeed SMP - Copy - Integer (MB/s)	3432	**4779**	**1877**
Normalized	71.83%	100%	39.29%
VP8 libvpx Encoding - vpxenc (FPS)	**5.30**	**9.83**	
Normalized	53.92%	100%	
Standard Deviation	1.7%	0.4%	
C-Ray - Total Time (sec)	**301.03**	**124.38**	214.84
Normalized	41.32%	100%	57.89%
Standard Deviation	0%	0.1%	0.1%
dcraw - R.T.P.I.C (sec)	257.12	**212.48**	**687.76**
Normalized	82.64%	100%	30.89%
Standard Deviation	0.2%	0%	6%
FFmpeg - H.2.H.T.N.D (sec)	59.44	**53.43**	**245.28**
Normalized	89.89%	100%	21.78%
Standard Deviation	1%	2.7%	1.4%
PyBench - T.F.A.T.T (Milliseconds)	7252	**6063**	**17717**
Normalized	83.6%	100%	34.22%
Standard Deviation	0.2%	0.3%	0.1%

Bay Trail screen

SQLite 3.7.3

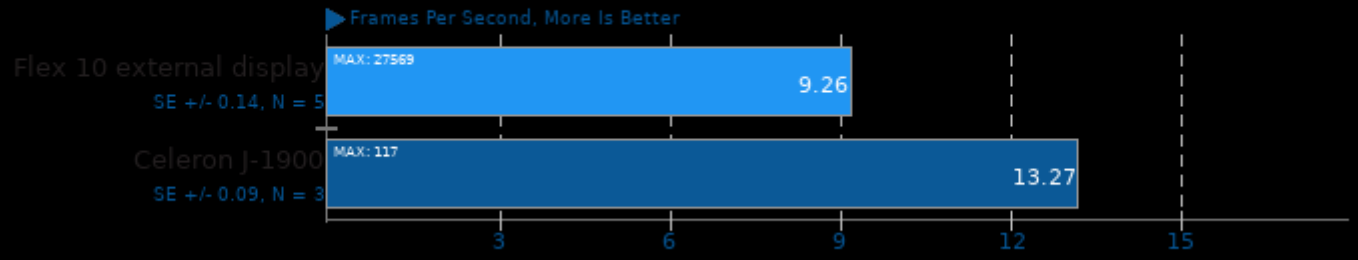
Test Target: Default Test Directory



1. (CC) gcc options: -O2 -ldl -lpthread

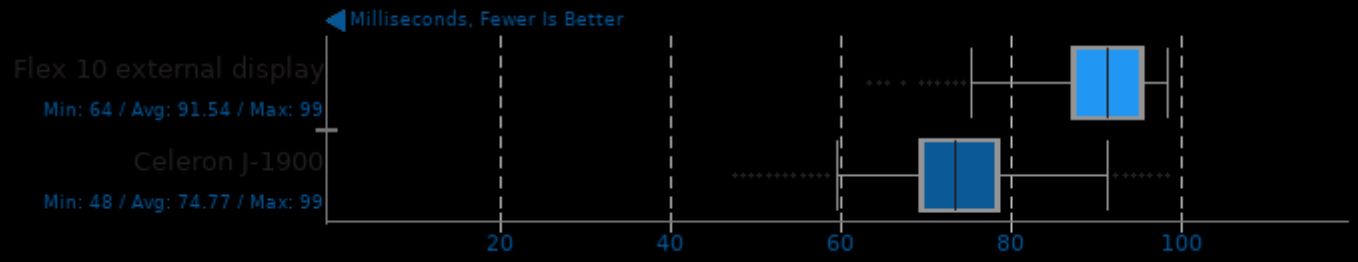
OpenArena 0.8.8

Resolution: 1920 x 1080



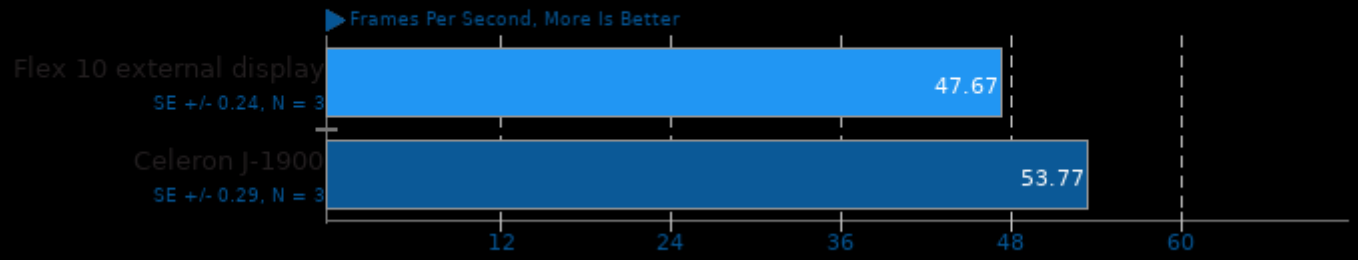
OpenArena 0.8.8

Resolution: 1920 x 1080 - Total Frame Time

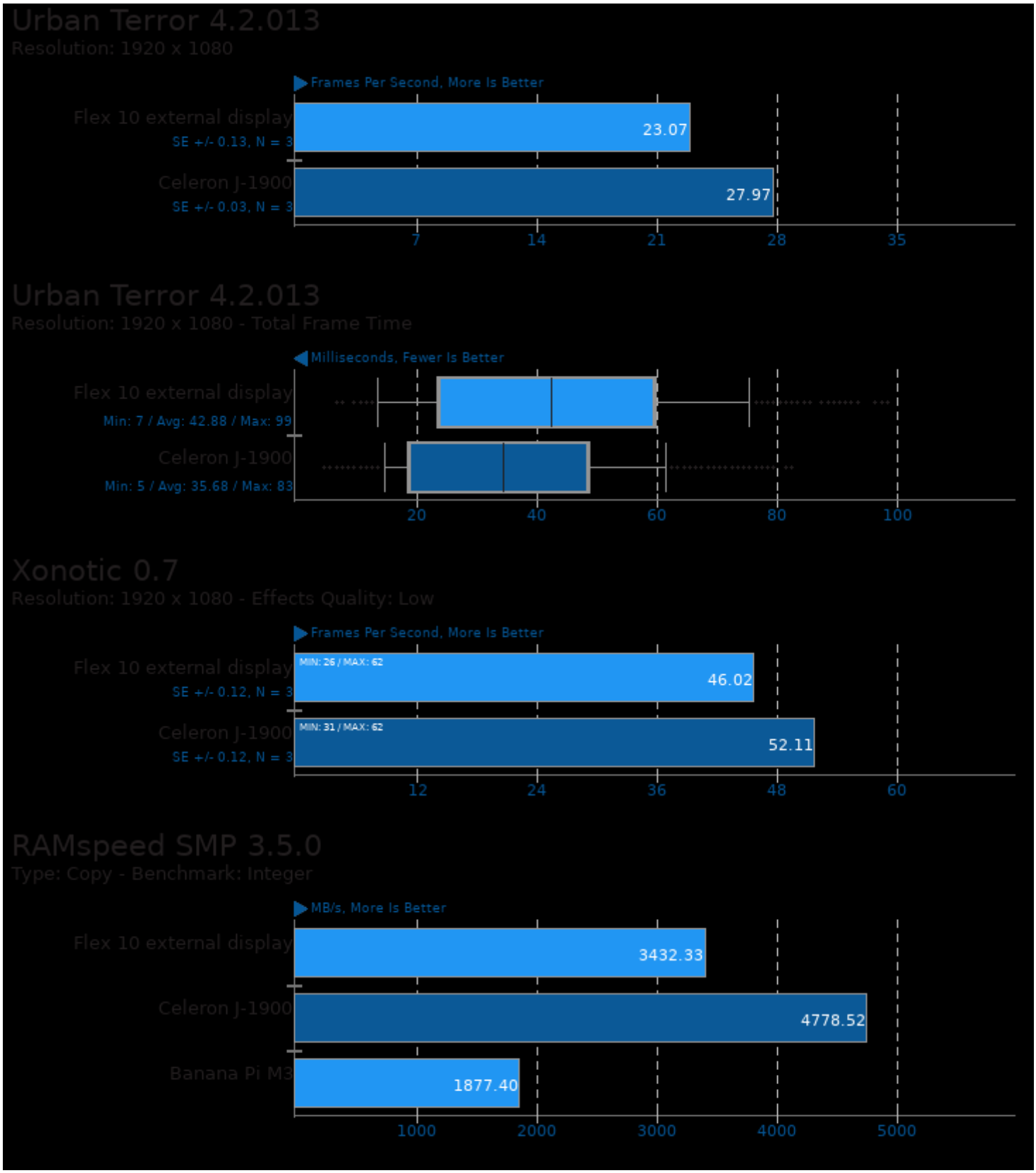


World of Padman 1.2

Resolution: 1920 x 1080



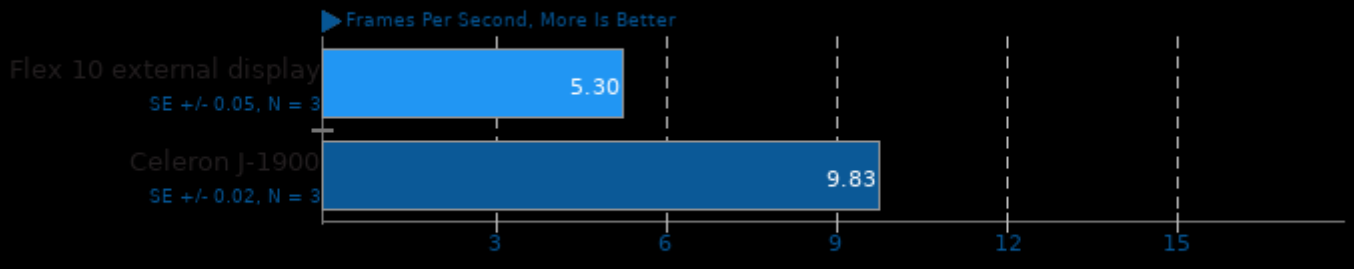
Bay Trail screen



Bay Trail screen

VP8 libvpx Encoding 1.1.0

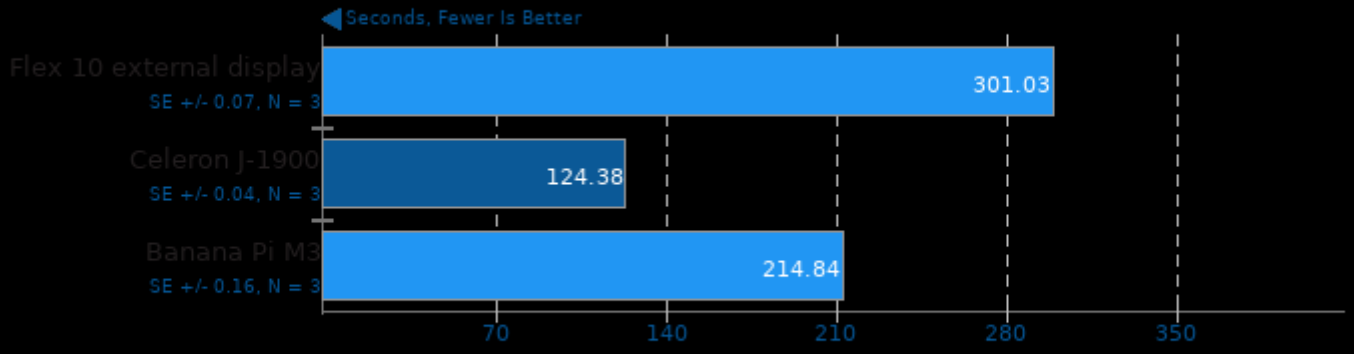
vpxenc



1. (CC) gcc options: -m64 -lvpx -lm -lpthread -fomit-frame-pointer -O3

C-Ray 1.1

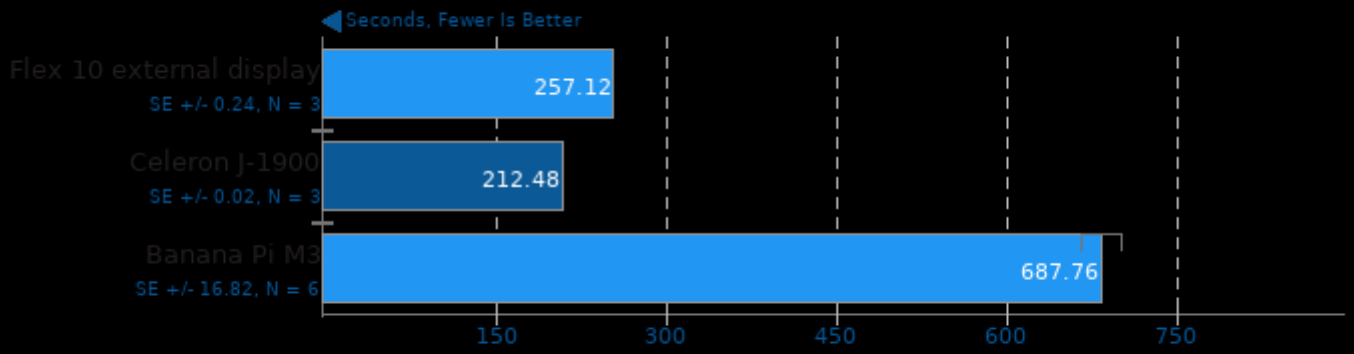
Total Time



1. (CC) gcc options: -lm -lpthread -O3

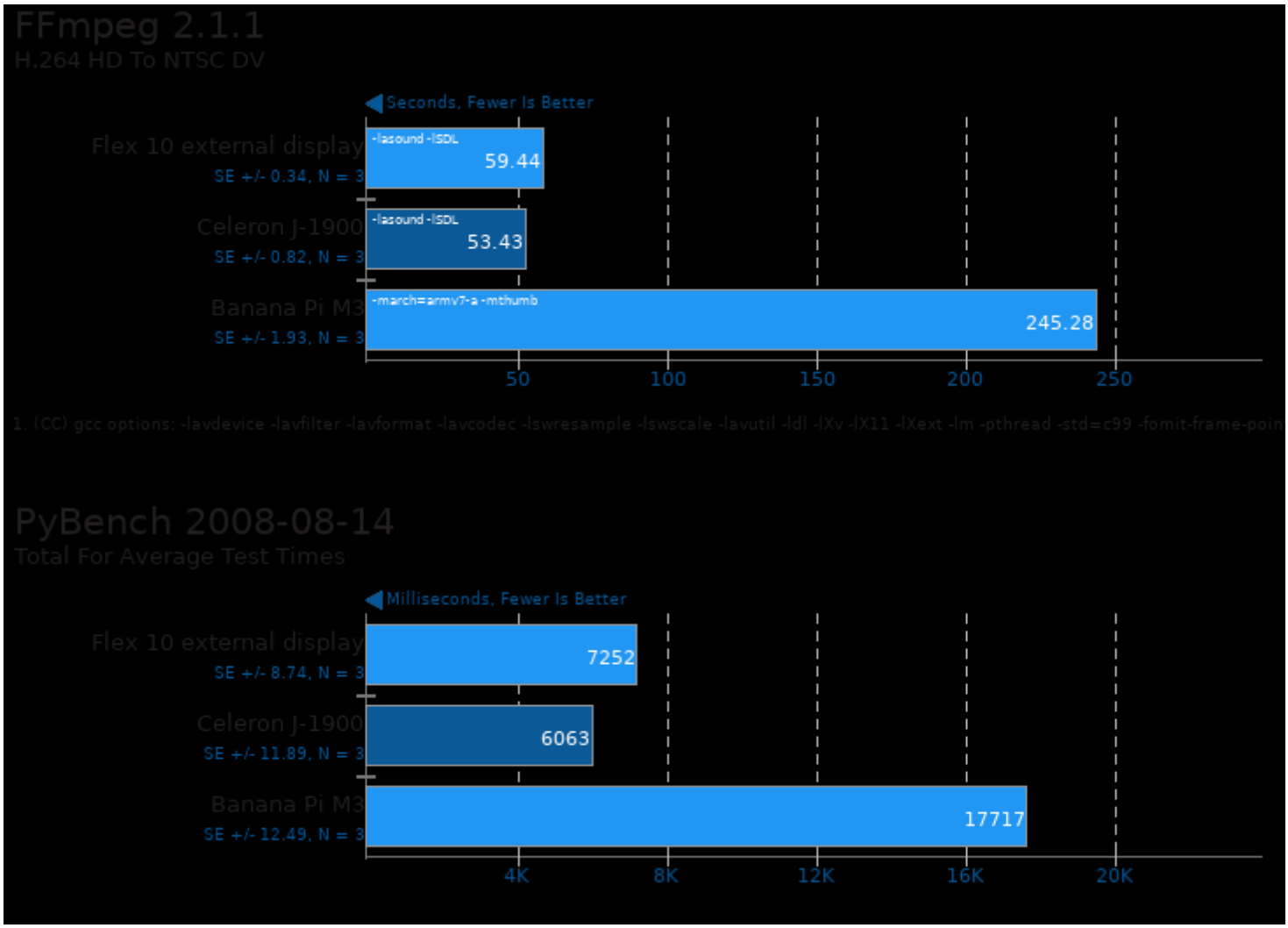
dcraw

RAW To PPM Image Conversion



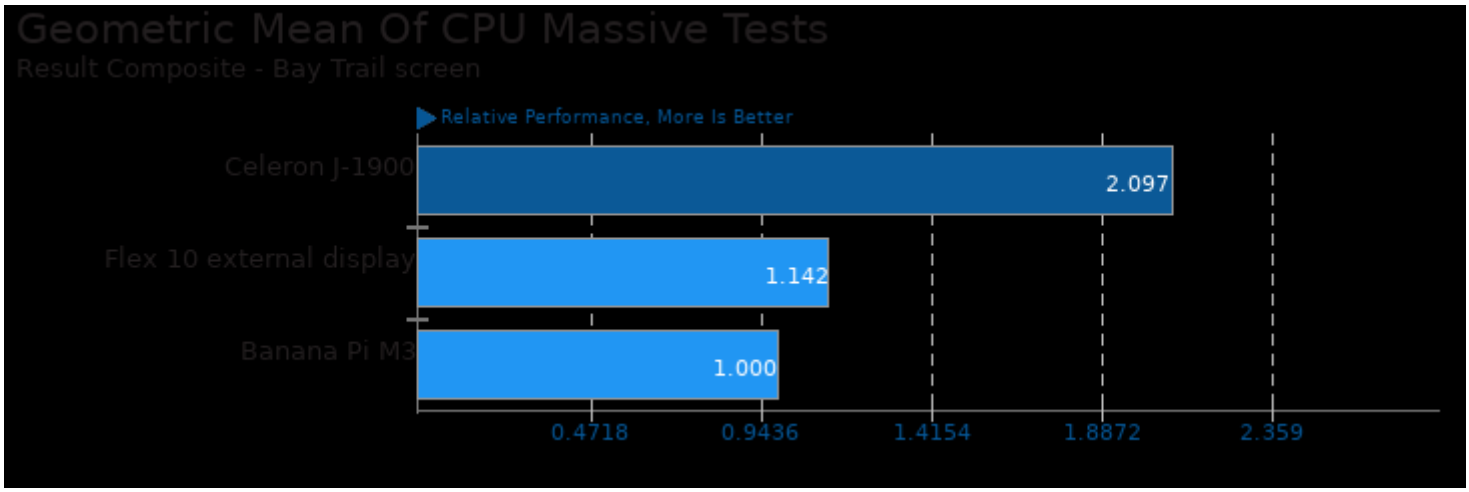
1. (CC) gcc options: -lm

Bay Trail screen

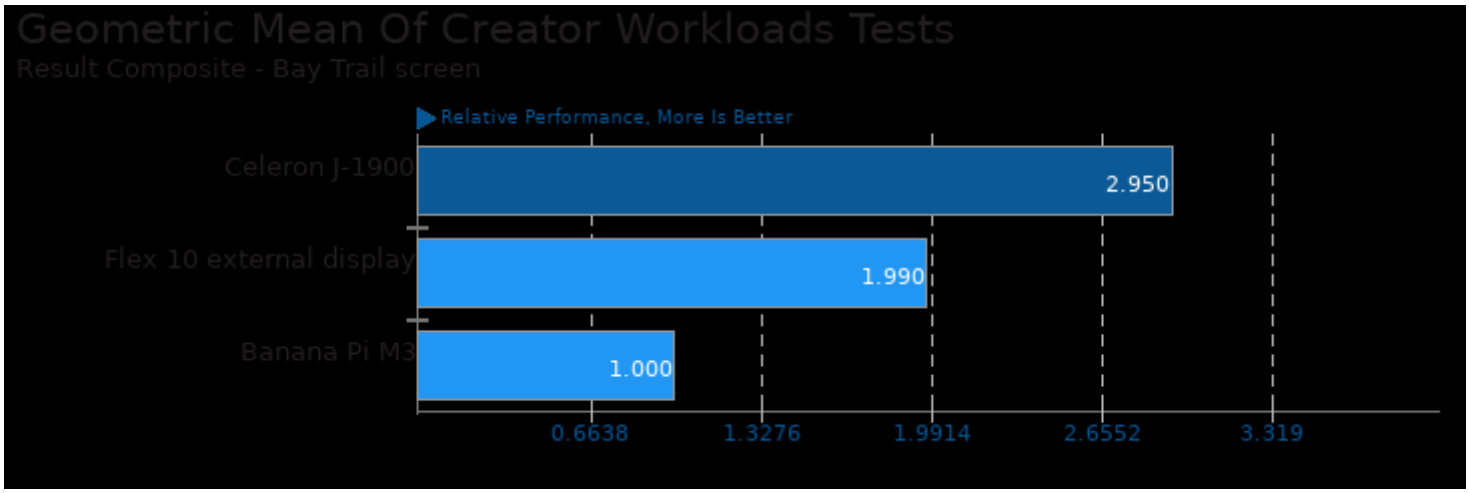


Bay Trail screen

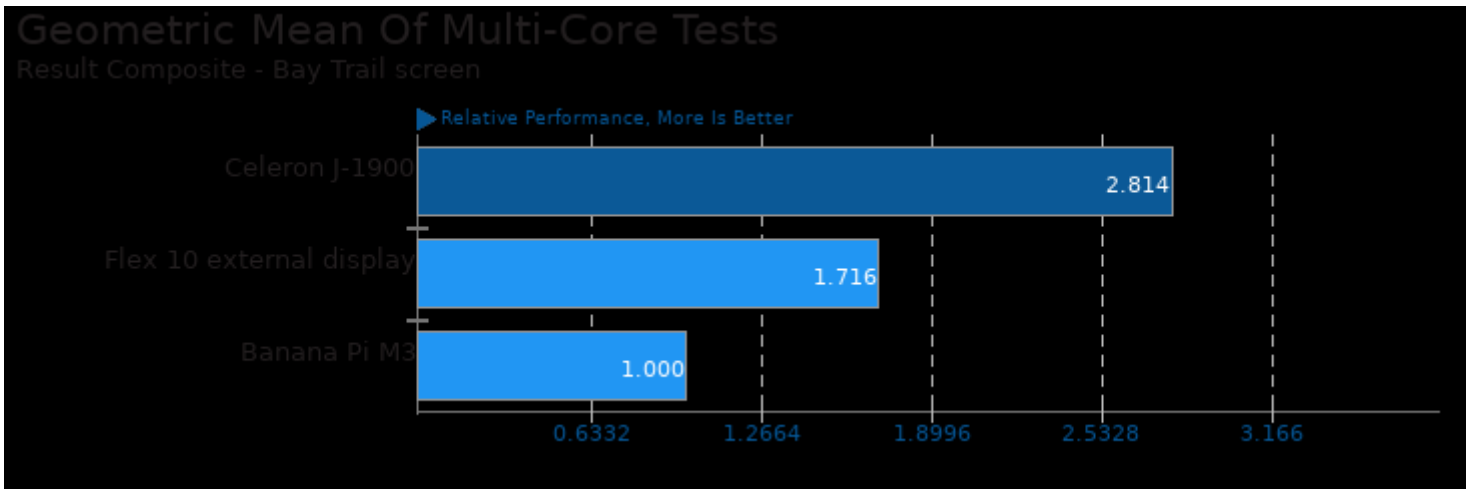
These geometric means are based upon test groupings / test suites for this result file.



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

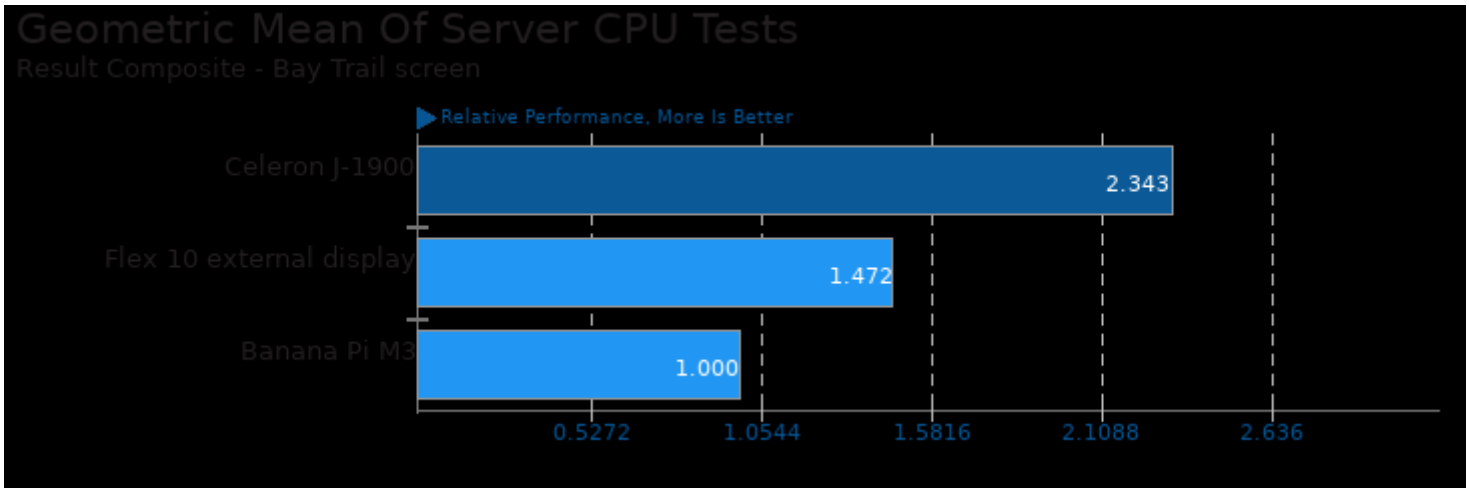


Geometric mean based upon tests: pts/c-ray, pts/ffmpeg, pts/vpxenc and pts/dcraw

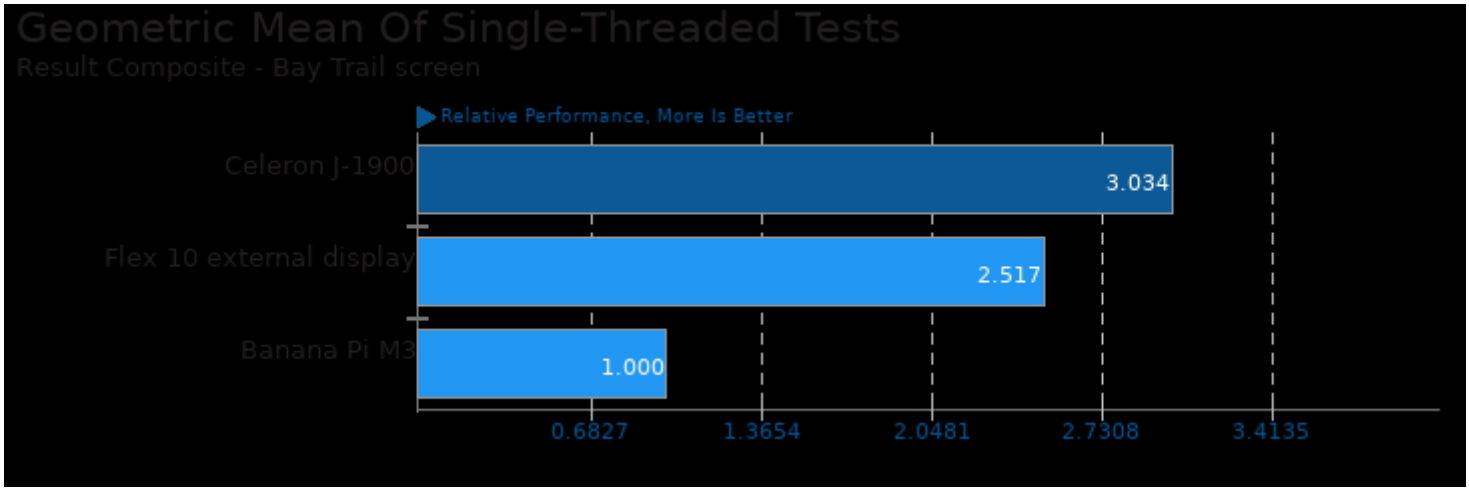


Geometric mean based upon tests: pts/c-ray, pts/ffmpeg and pts/vpxenc

Bay Trail screen



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



Geometric mean based upon tests: pts/dcraw and pts/pybench

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:06.