



results-oldest-16-bios-old-fan

Intel Core i7-7820HQ testing with a Dell 0X41RR (1.16.0 BIOS) and Intel HD 630 KBL GT2 15GB on Fedora Linux 36 via the Phoronix Test Suite.

Test Systems:

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Processor: Intel Core i7-7820HQ @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Dell 0X41RR (1.16.0 BIOS), Chipset: Intel Xeon E3-1200 v6/7th, Memory: 16GB, Disk: Toshiba KXG50ZNV256G NVMe 256GB, Graphics: Intel HD 630 KBL GT2 15GB, Audio: Realtek ALC3266, Network: Intel 8265 / 8275

OS: Fedora Linux 36, Kernel: 5.19.13-200.fc36.x86_64 (x86_64), Desktop: GNOME Shell 42.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.1.7, Compiler: GCC 12.2.1 20220819, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-libstdcxx-backtrace

--enable-link-serialization=1 --enable-multilib --enable-offload-defaulted --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix
 --mandir=/usr/share/man --with-arch_32=i686 --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic
 --without-cuda-driver
 Processor Notes: Scaling Governor: intel_pstate powersave (EPP: performance) - CPU Microcode: 0xf0 - Thermald 2.4.8
 Python Notes: Python 3.10.7
 Security Notes: SELinux + itlb_multihit: KVM: Mitigation of VMX disabled + 11tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds:
 Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + mmio_stale_data: Mitigation of Clear buffers; SMT vulnerable + retbleed: Mitigation of IBRS +
 spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of
 IBRS IBPB: conditional RSB filling PBRSE-IBRS: Not affected + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of TSX disabled

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OpenArena - 1920 x 1080 (FPS)	28.7
Standard Deviation	0.7%
Tesseract - 1920 x 1080 (FPS)	27.67898
Standard Deviation	0.4%
Unigine Heaven - 1920 x 1080 - Fullscreen - OpenGL (FPS)	3.29557
Standard Deviation	0.1%
Unigine Valley - 1920 x 1080 - Fullscreen - OpenGL (FPS)	3.85917
Standard Deviation	0.2%
Xonotic - 1920 x 1080 - Low (FPS)	81.1289132
Standard Deviation	0.2%
Xonotic - 1920 x 1080 - High (FPS)	33.2097346
Standard Deviation	0%
Xonotic - 1920 x 1080 - Ultra (FPS)	27.7048331
Standard Deviation	0%
Xonotic - 1920 x 1080 - Ultimate (FPS)	20.1216832
Standard Deviation	0%
ParaView - Many Spheres - 1920 x 1080 (Frames / Sec)	2.48
Standard Deviation	0%
ParaView - Many Spheres - 1920 x 1080 (MiPolys / Sec)	248.949
Standard Deviation	0%
ParaView - Wavelet Volume - 1920 x 1080 (Frames / Sec)	7.65
Standard Deviation	0%
ParaView - Wavelet Volume - 1920 x 1080 (MiVoxels / Sec)	122.410
Standard Deviation	0%
ParaView - Wavelet Contour - 1920 x 1080 (Frames / Sec)	12.41
Standard Deviation	0%
ParaView - Wavelet Contour - 1920 x 1080 (MiPolys / Sec)	129.362
Standard Deviation	0.1%
RAMspeed SMP - Add - Integer (MB/s)	11733
Standard Deviation	0.6%
RAMspeed SMP - Copy - Integer (MB/s)	10687
Standard Deviation	0.2%
RAMspeed SMP - Scale - Integer (MB/s)	10380
Standard Deviation	0.1%
RAMspeed SMP - Triad - Integer (MB/s)	11654
Standard Deviation	0.6%
RAMspeed SMP - Average - Integer (MB/s)	11134
Standard Deviation	0.4%
RAMspeed SMP - Add - Floating Point (MB/s)	11496
Standard Deviation	0.4%
RAMspeed SMP - Copy - Floating Point (MB/s)	10687

	Standard Deviation	0.3%
RAMspeed SMP - Scale - Floating Point (MB/s)		10373
	Standard Deviation	0.2%
RAMspeed SMP - Triad - Floating Point (MB/s)		11808
	Standard Deviation	0.5%
RAMspeed SMP - Average - Floating Point (MB/s)		11095
	Standard Deviation	0.2%
Stream - Copy (MB/s)		14366
	Standard Deviation	0.7%
Stream - Scale (MB/s)		10332
	Standard Deviation	0%
Stream - Triad (MB/s)		11501
	Standard Deviation	0.1%
Stream - Add (MB/s)		11506
	Standard Deviation	0.1%
Tinymembench - Standard Memcpy (MB/s)		5071
	Standard Deviation	1.8%
Tinymembench - Standard Memset (MB/s)		6999
	Standard Deviation	0.9%
MBW - Memory Copy - 1024 MiB (MiB/s)		4903
	Standard Deviation	1.8%
MBW - M.C.F.B.S - 1024 MiB (MiB/s)		3618
	Standard Deviation	0.4%
t-test1 - 1 (sec)		135.741
	Standard Deviation	0.1%
t-test1 - 2 (sec)		42.157
	Standard Deviation	0.5%
LeelaChessZero - BLAS (Nodes/s)		111
	Standard Deviation	1.9%
CacheBench - Read Cache (MB/s)		668.867227
	Standard Deviation	0%
CacheBench - Write Cache (MB/s)		2924
	Standard Deviation	0%
Crafty - Elapsed Time (Nodes/s)		1598280
	Standard Deviation	0.4%
TSCP - A.C.P (Nodes/s)		272177
	Standard Deviation	0.1%
Stockfish - Total Time (Nodes/s)		2284911
	Standard Deviation	2.2%
asmFish - 1.H.M.2.D (Nodes/s)		2646235
	Standard Deviation	0.4%
m-queens - Time To Solve (sec)		1047
	Standard Deviation	0.2%
GEGL - Crop (sec)		40.694
	Standard Deviation	0.9%
GEGL - Scale (sec)		29.616
	Standard Deviation	0.2%
GEGL - Cartoon (sec)		523.686
	Standard Deviation	0.3%
GEGL - Reflect (sec)		180.881
	Standard Deviation	0.1%
GEGL - Antialias (sec)		213.018
	Standard Deviation	2.4%

GEGL - Tile Glass (sec) 163.034
Standard Deviation 0%

GEGL - Wavelet Blur (sec) 309.686
Standard Deviation 0.6%

GEGL - Color Enhance (sec) 289.867
Standard Deviation 0.4%

GEGL - Rotate 90 Degrees (sec) 241.782
Standard Deviation 0.2%

GIMP - resize (sec) 88.618
Standard Deviation 0.3%

GIMP - rotate (sec) 97.325
Standard Deviation 0.1%

GIMP - auto-levels (sec) 99.635
Standard Deviation 0.1%

GIMP - unsharp-mask (sec) 111.347
Standard Deviation 0.1%

Inkscape - SVG Files To PNG (sec) 170.208
Standard Deviation 0.3%

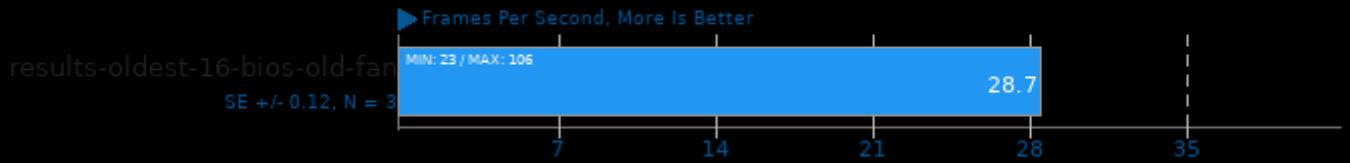
LibreOffice - 2.D.T.P (sec) 43.553
Standard Deviation 1.6%

GNU Octave Benchmark (sec) 36.444
Standard Deviation 1%

librsvg - SVG Files To PNG (sec) 116.583
Standard Deviation 0.1%

OpenArena 0.8.8

Resolution: 1920 x 1080



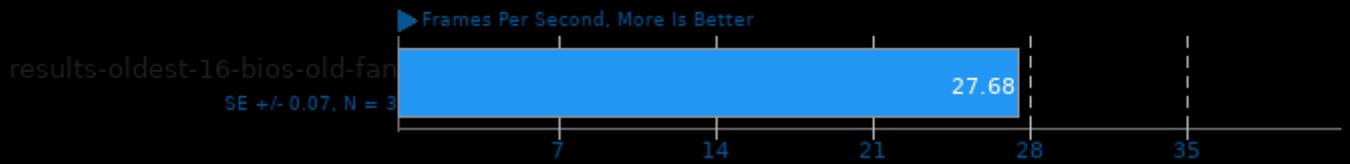
OpenArena 0.8.8

Resolution: 1920 x 1080 - Total Frame Time



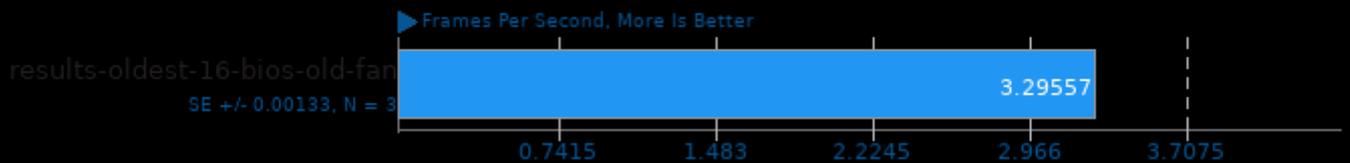
Tesseract 2014-05-12

Resolution: 1920 x 1080



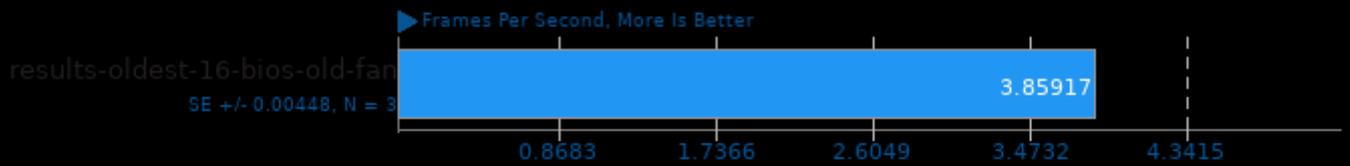
Unigine Heaven 4.0

Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL



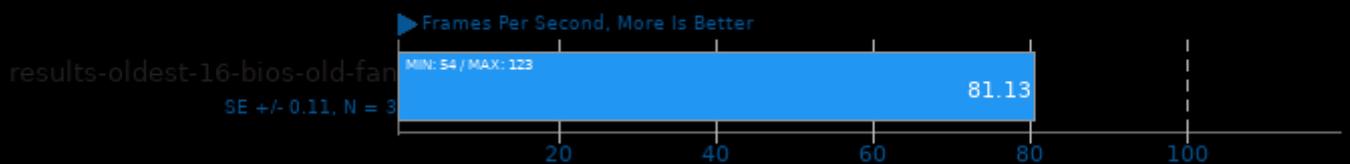
Unigine Valley 1.0

Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL



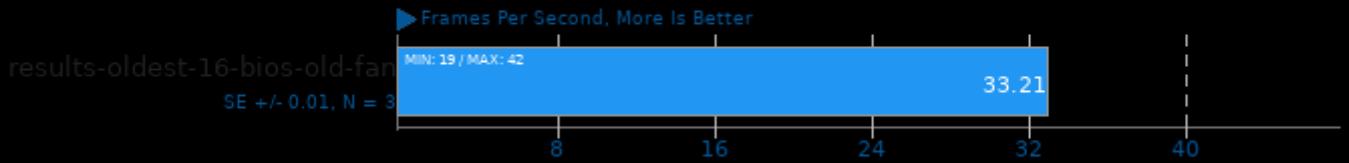
Xonotic 0.8.5

Resolution: 1920 x 1080 - Effects Quality: Low



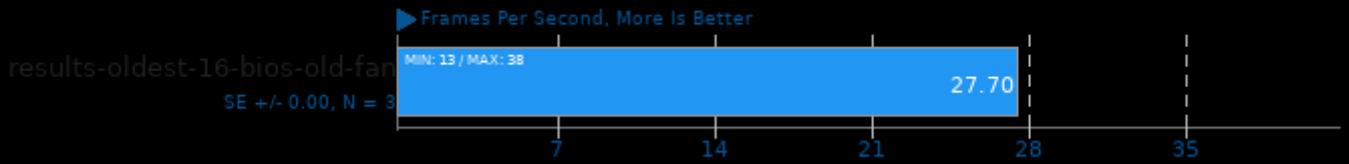
Xonotic 0.8.5

Resolution: 1920 x 1080 - Effects Quality: High



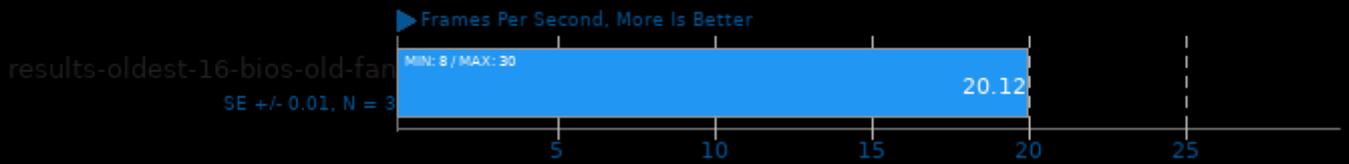
Xonotic 0.8.5

Resolution: 1920 x 1080 - Effects Quality: Ultra



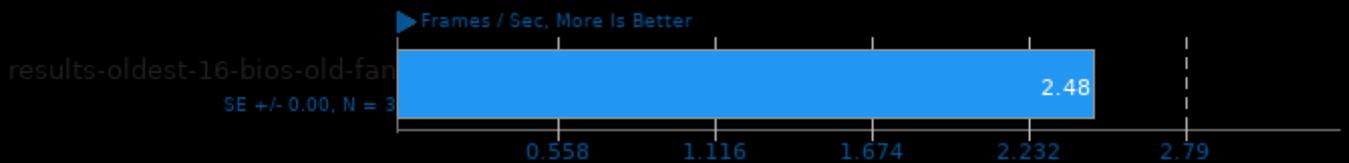
Xonotic 0.8.5

Resolution: 1920 x 1080 - Effects Quality: Ultimate



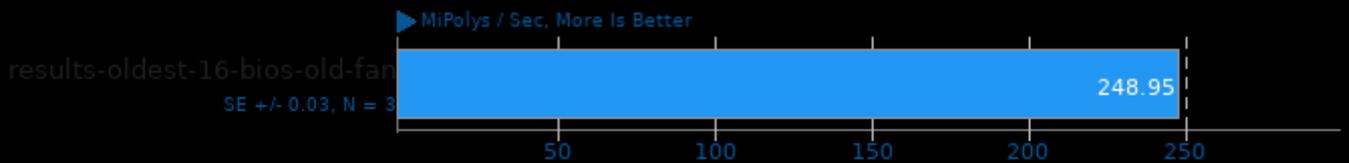
ParaView 5.10.1

Test: Many Spheres - Resolution: 1920 x 1080



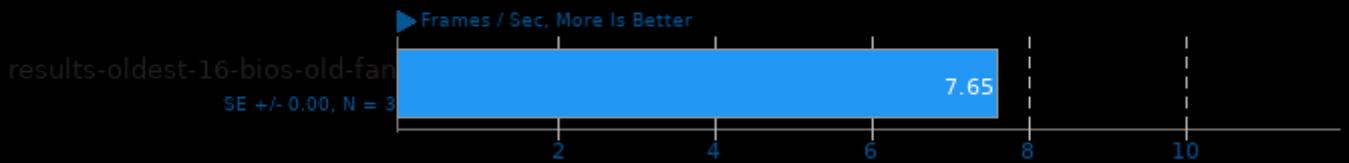
ParaView 5.10.1

Test: Many Spheres - Resolution: 1920 x 1080



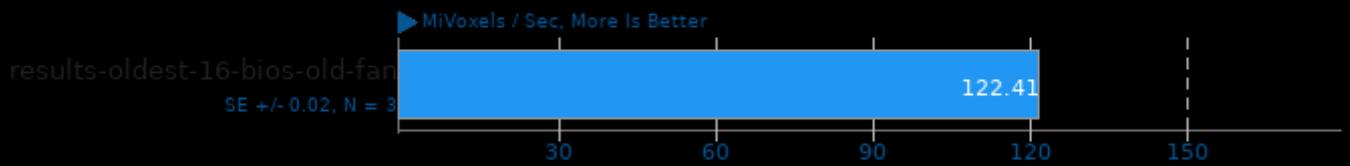
ParaView 5.10.1

Test: Wavelet Volume - Resolution: 1920 x 1080



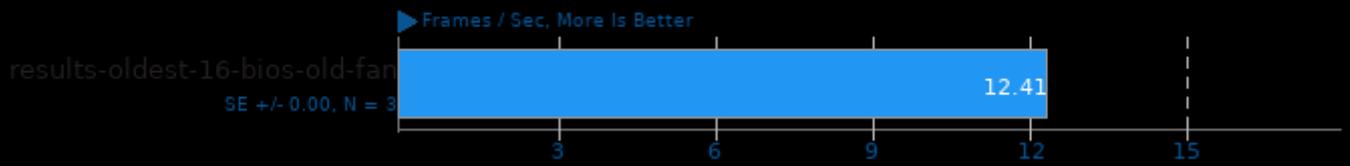
ParaView 5.10.1

Test: Wavelet Volume - Resolution: 1920 x 1080



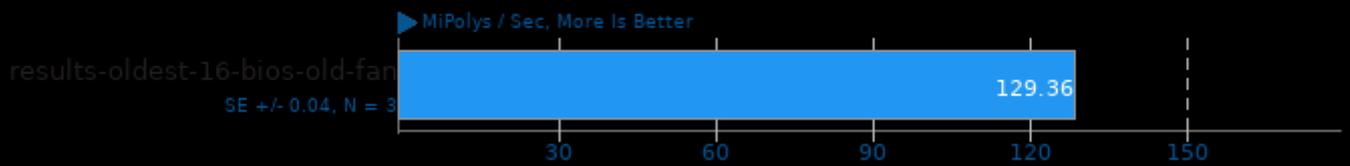
ParaView 5.10.1

Test: Wavelet Contour - Resolution: 1920 x 1080



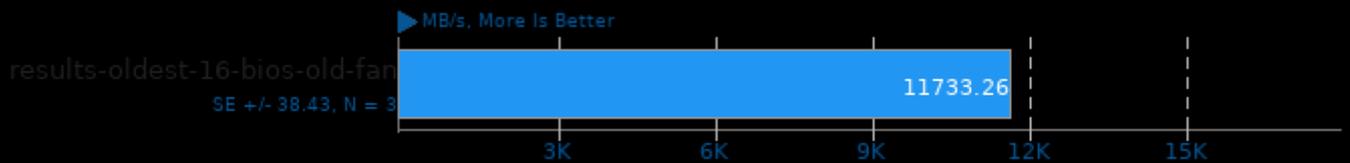
ParaView 5.10.1

Test: Wavelet Contour - Resolution: 1920 x 1080



RAMspeed SMP 3.5.0

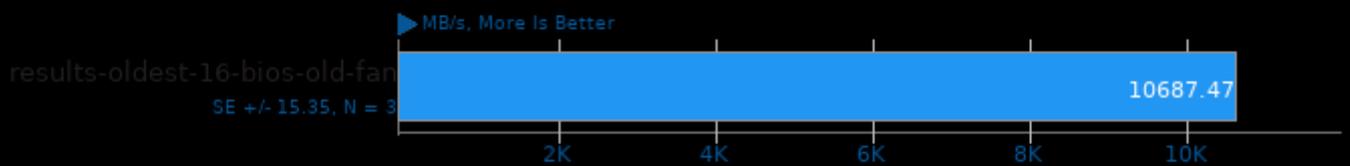
Type: Add - Benchmark: Integer



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

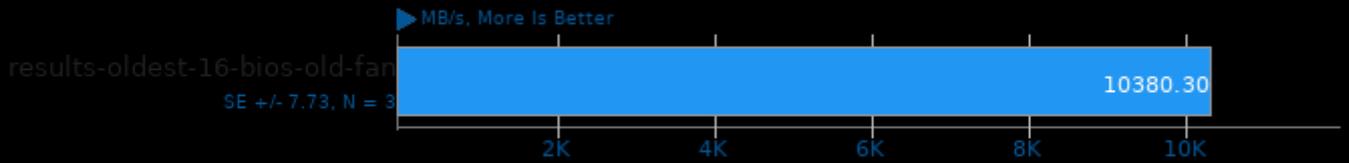
Type: Copy - Benchmark: Integer



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

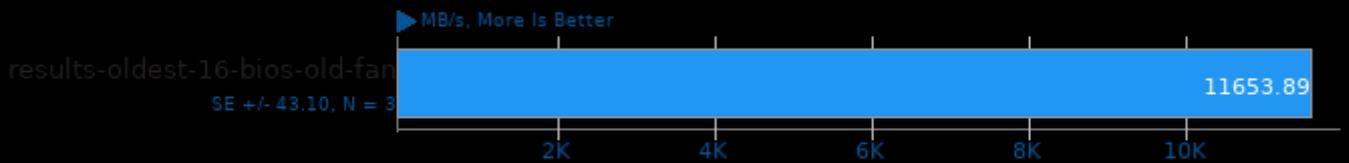
Type: Scale - Benchmark: Integer



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

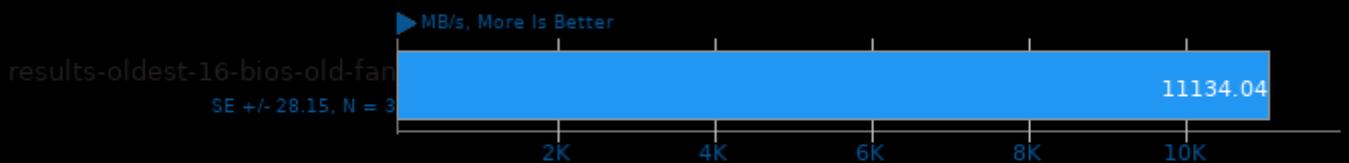
Type: Triad - Benchmark: Integer



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

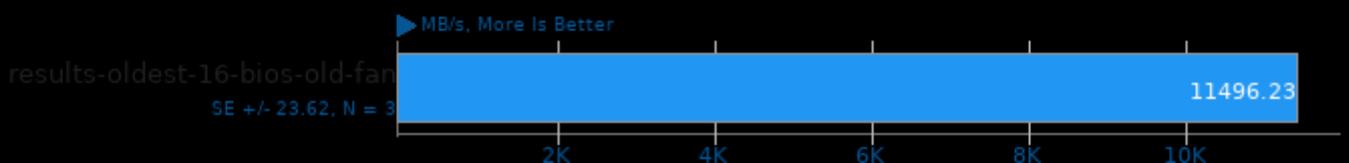
Type: Average - Benchmark: Integer



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

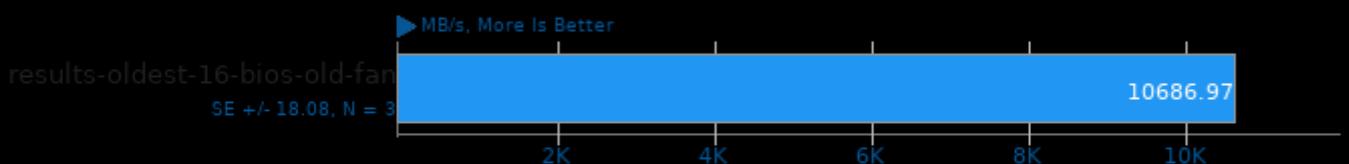
Type: Add - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

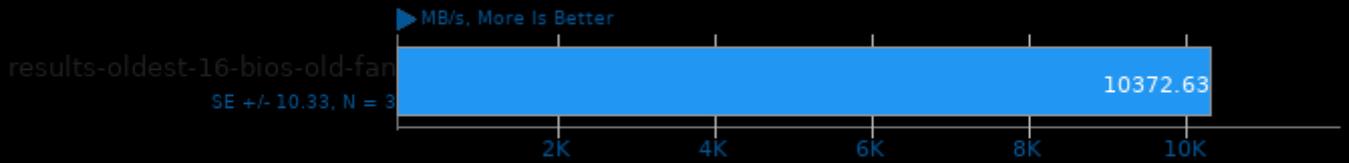
Type: Copy - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

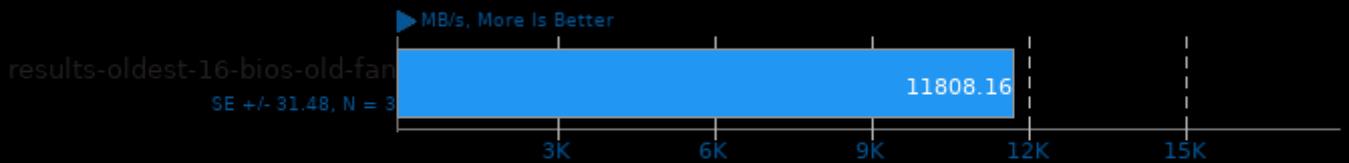
Type: Scale - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

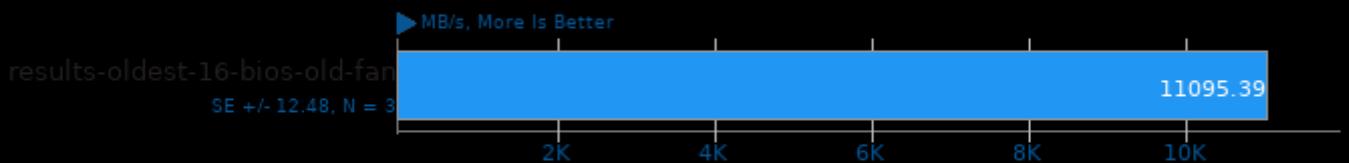
Type: Triad - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

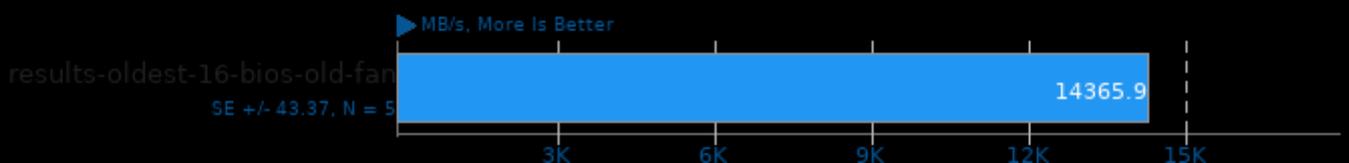
Type: Average - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native

Stream 2013-01-17

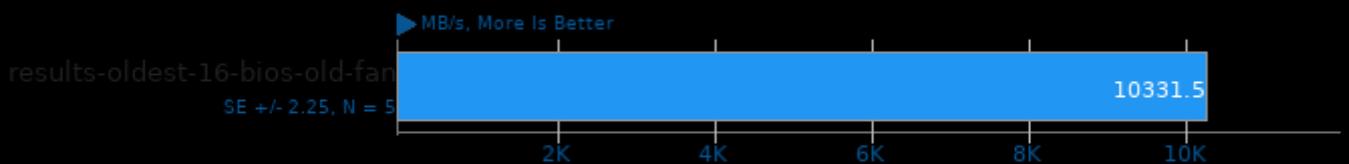
Type: Copy



1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

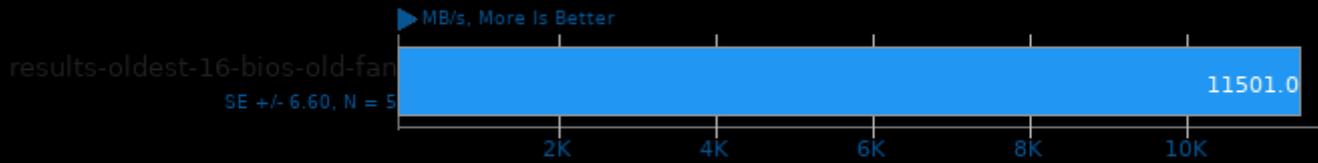
Type: Scale



1. (CC) gcc options: -O3 -march=native -fopenmp

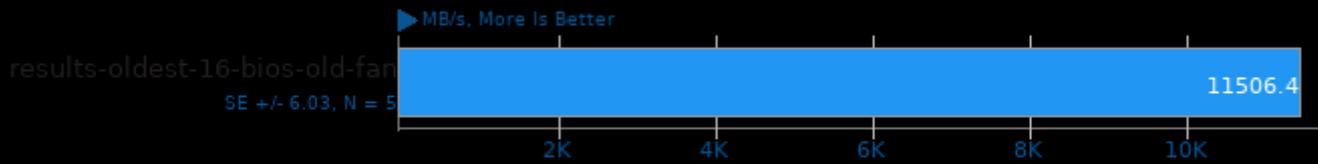
Stream 2013-01-17

Type: Triad



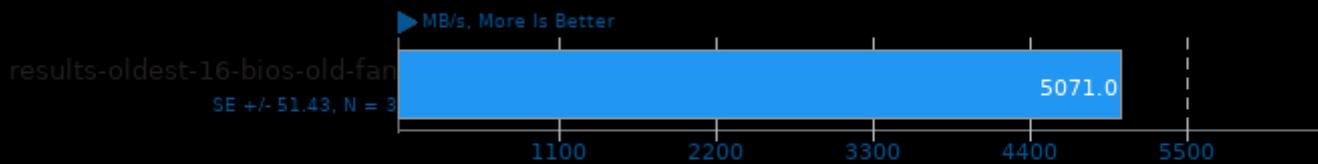
Stream 2013-01-17

Type: Add



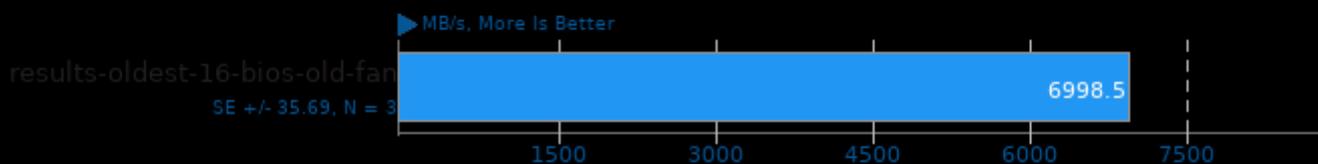
Tinymembench 2018-05-28

Standard Memcpy



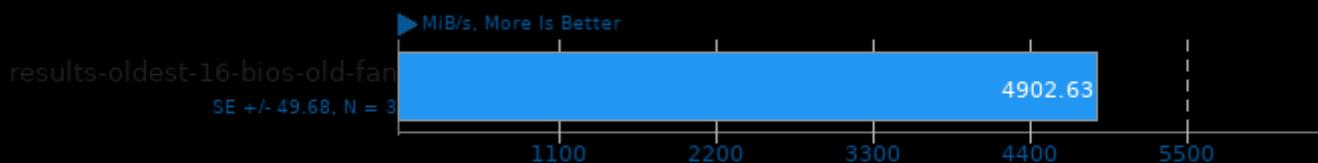
Tinymembench 2018-05-28

Standard Memset



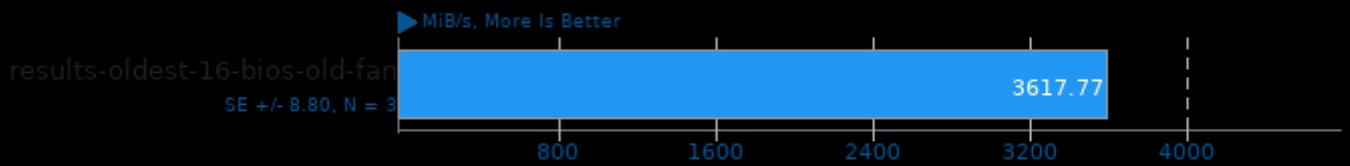
MBW 2018-09-08

Test: Memory Copy - Array Size: 1024 MiB



MBW 2018-09-08

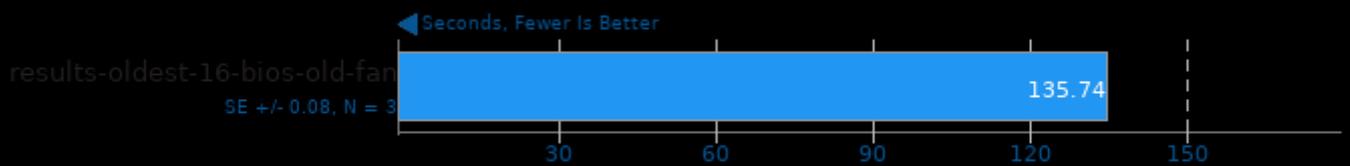
Test: Memory Copy, Fixed Block Size - Array Size: 1024 MiB



1. (CC) gcc options: -O3 -march=native

t-test1 2017-01-13

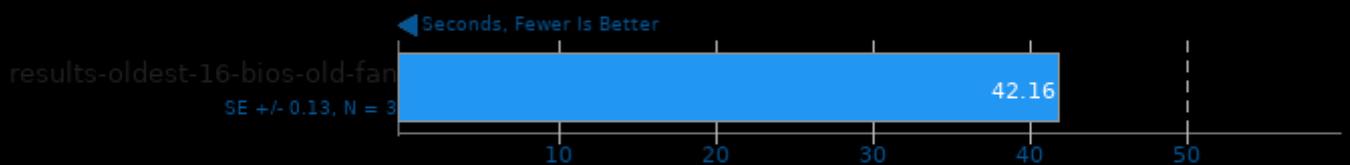
Threads: 1



1. (CC) gcc options: -pthread

t-test1 2017-01-13

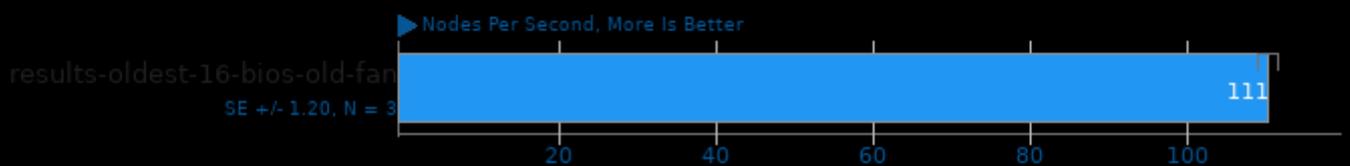
Threads: 2



1. (CC) gcc options: -pthread

LeelaChessZero 0.28

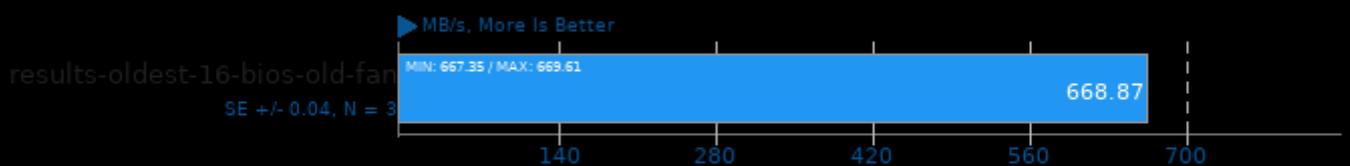
Backend: BLAS



1. (CXX) g++ options: -fno -pthread

CacheBench

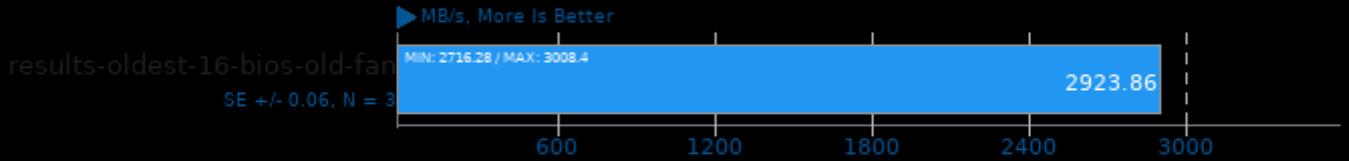
Read Cache



1. (CC) gcc options: -lrt

CacheBench

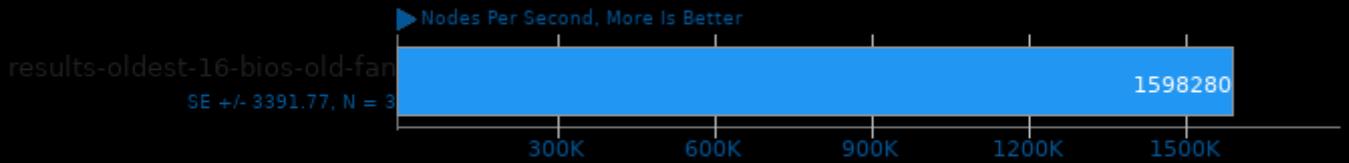
Write Cache



1. (CC) gcc options: -lrt

Crafty 25.2

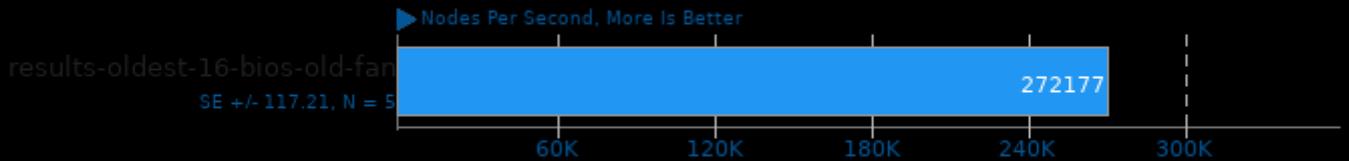
Elapsed Time



1. (CC) gcc options: -pthread -lstdc++ -fprofile-use -lm

TSCP 1.81

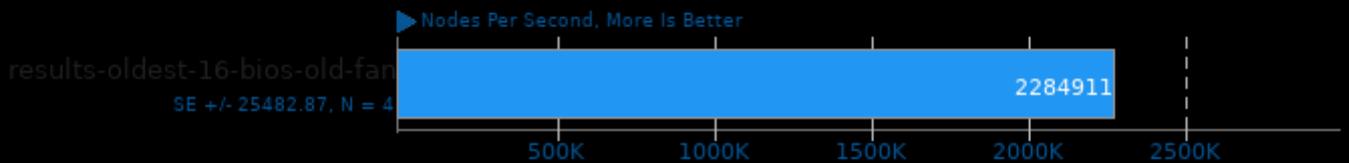
AI Chess Performance



1. (CC) gcc options: -O3 -march=native

Stockfish 15

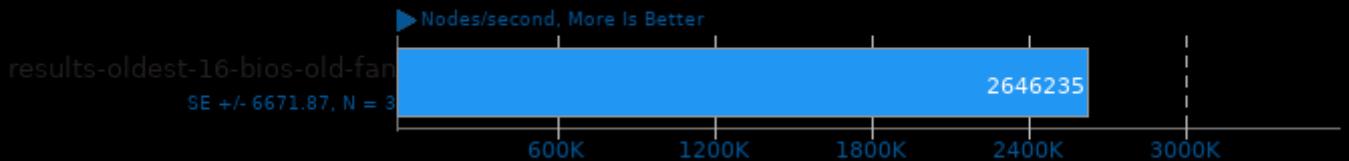
Total Time



1. (CXX) g++ options: -lgcov -m64 -lpthread -fno-exceptions -std=c++17 -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt -mavx2 -msse4.1

asmFish 2018-07-23

1024 Hash Memory, 26 Depth



m-queens 1.2

Time To Solve

← Seconds, Fewer Is Better

results-oldest-16-bios-old-fan

SE +/- 0.93, N = 3

1047.06

200 400 600 800 1000

1. (CXX) g++ options: -fopenmp -O2 -march=native

GEGL

Operation: Crop

← Seconds, Fewer Is Better

results-oldest-16-bios-old-fan

SE +/- 0.21, N = 3

40.69

9 18 27 36 45

GEGL

Operation: Scale

← Seconds, Fewer Is Better

results-oldest-16-bios-old-fan

SE +/- 0.03, N = 3

29.62

7 14 21 28 35

GEGL

Operation: Cartoon

← Seconds, Fewer Is Better

results-oldest-16-bios-old-fan

SE +/- 0.91, N = 3

523.69

110 220 330 440 550

GEGL

Operation: Reflect

← Seconds, Fewer Is Better

results-oldest-16-bios-old-fan

SE +/- 0.13, N = 3

180.88

40 80 120 160 200

GEGL

Operation: Antialias

← Seconds, Fewer Is Better

results-oldest-16-bios-old-fan

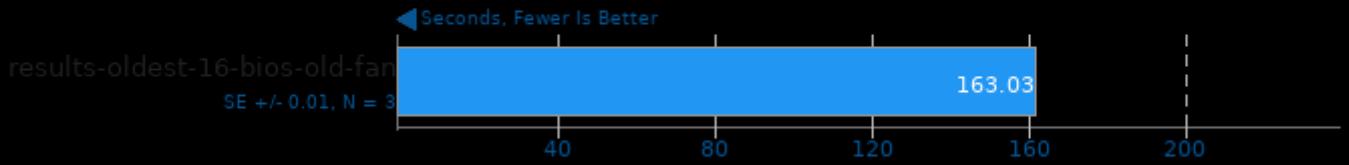
SE +/- 3.01, N = 3

213.02

50 100 150 200 250

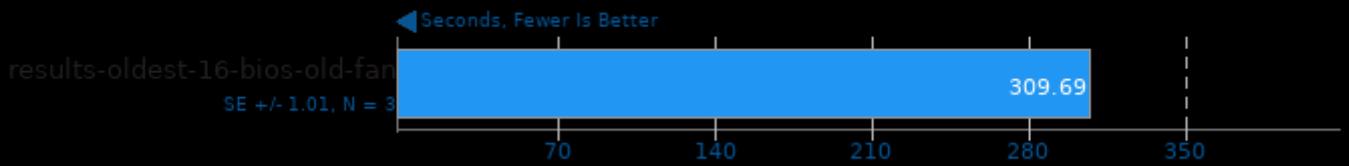
GEGL

Operation: Tile Glass



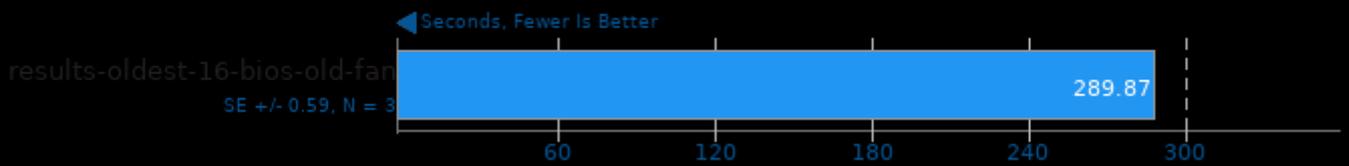
GEGL

Operation: Wavelet Blur



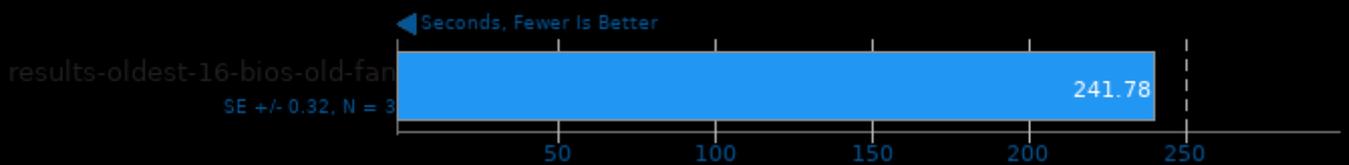
GEGL

Operation: Color Enhance



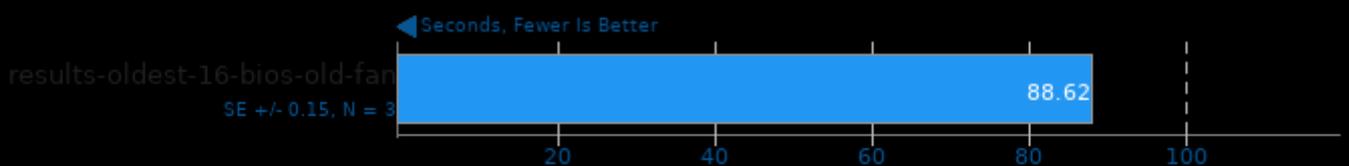
GEGL

Operation: Rotate 90 Degrees



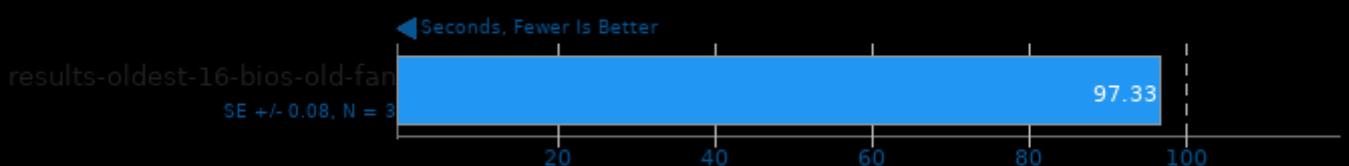
GIMP 2.10.32

Test: resize



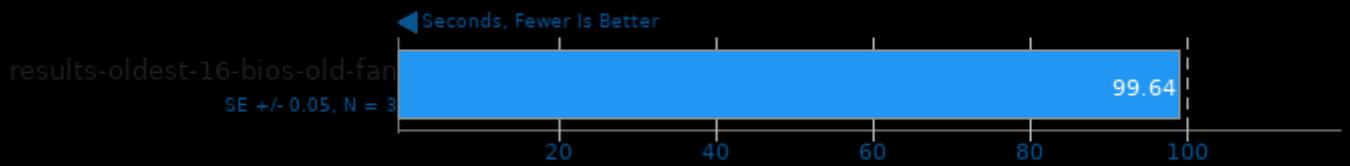
GIMP 2.10.32

Test: rotate



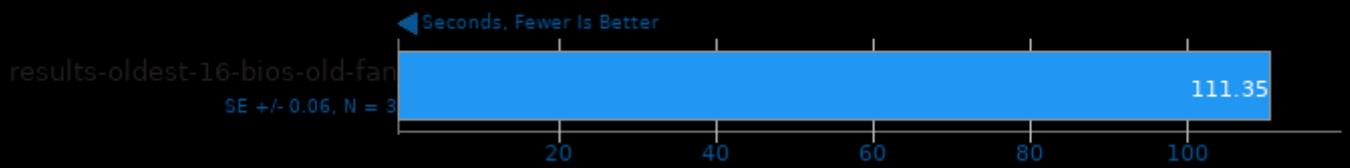
GIMP 2.10.32

Test: auto-levels



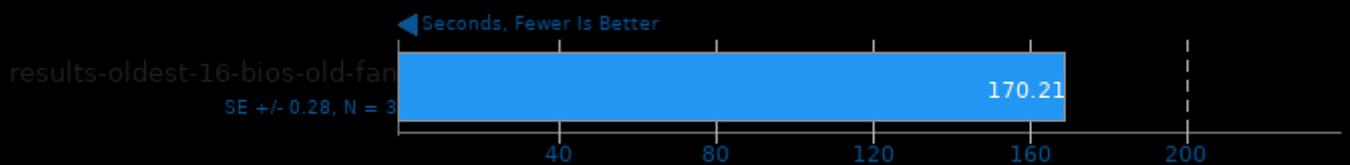
GIMP 2.10.32

Test: unsharp-mask



Inkscape

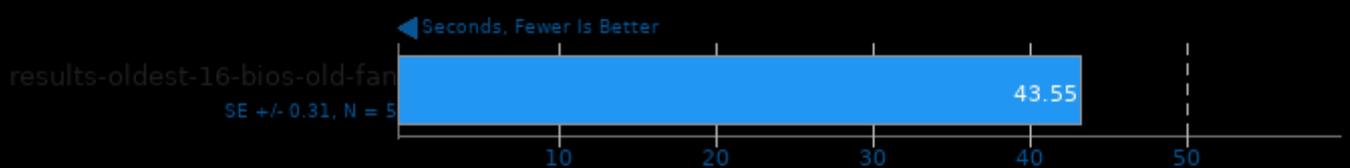
Operation: SVG Files To PNG



1. Inkscape 1.2.1 (9c6d41e410, 2022-07-14)

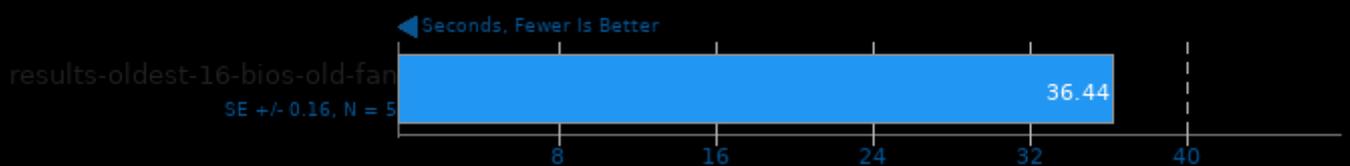
LibreOffice

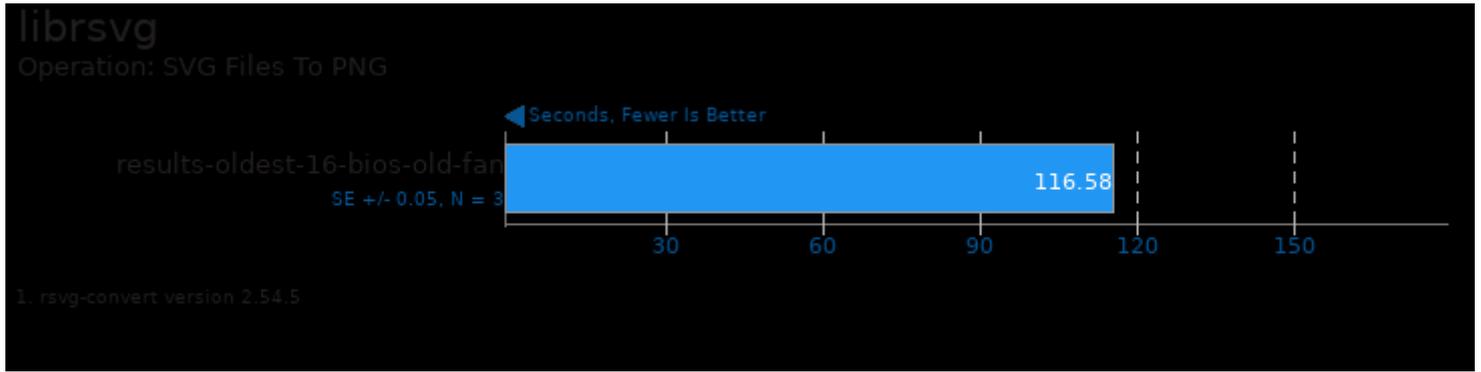
Test: 20 Documents To PDF



1. LibreOffice 7.3.6.2 30(Build:2)

GNU Octave Benchmark 6.4.0





This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 13:55.