

www.phoronix-test-suite.com

testing5

Running pts/iozone-1.8.0, pts/unpack-linux-1.0.0, pts/unigine-heaven-1.5.3, pts/unigine-valley-1.0.3, pts/himeno-1.1.0, pts/compress-7zip-1.6.0, pts/build-linux-kernel-1.3.0, pts/compress-gzip-1.1.0, pts/ffmpeg-2.3.1, pts/sudokut-1.0.0, pts/tachyon-1.1.1, pts/pybench-1.0.0, pts/apache-1.6.1, pts/sunflow-1.1.0 via the Phoronix Test Suite.

Automated Executive Summary

testing6 had the most wins, coming in first place for 80% of the tests.

Based on the geometric mean of all complete results, the fastest (testing6) was 1.003x the speed of the slowest (SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770).

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

Himeno Benchmark (Poisson Pressure Solver) at 1.12x
Gzip Compression (2GB File Compression) at 1.037x
Unigine Valley (Resolution: 800 x 600) at 1.027x
Timed Linux Kernel Compilation (Time To Compile) at 1.023x
7-Zip Compression (Compress Speed Test) at 1.021x
Unpacking The Linux Kernel (linux-2.6.32.tar.bz2) at 1.02x
Sunflow Rendering System (Global Illumination + Image Synthesis) at 1.019x
Sudokut (Total Time) at 1.016x

Unigine Valley (Resolution: 1024 x 768) at 1.014x
IOzone (Record Size: 4Kb - File Size: 512MB - Disk Test: Write Performance) at 1.01x.

Test Systems:

SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770

Processor: Intel Core i5-4670K @ 3.40GHz (4 Cores), Motherboard: ASUS Z87I-DELUXE, Chipset: Intel Haswell DRAM, Memory: 16384MB, Disk: 480GB SanDisk SDSSDXP4, Graphics: MSI NVIDIA GeForce GTX 770, Audio: Realtek ALC1150, Monitor: Panasonic-TV, Network: Intel Connection I217-V + Broadcom Device 43b1

OS: Debian 7.5, Kernel: 3.10-3-amd64 (x86_64), Desktop: GNOME Shell 3.4.2, Display Server: X Server 1.12.4, Display Driver: NVIDIA 331.20, OpenGL: 4.4.0, Compiler: GCC 4.7.2, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,go,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-arch-32=i686 --with-tune=generic -v
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
System Notes: Disk Scheduler: CFQ. Python 2.7.3.

testing6

Processor: Intel Core i5-4670K @ 3.40GHz (4 Cores), Motherboard: ASUS Z87I-DELUXE, Chipset: Intel Haswell DRAM, Memory: 16384MB, Disk: 480GB SanDisk SDSSDXP4, Graphics: MSI NVIDIA GeForce GTX 770, Audio: Realtek ALC1150, Monitor: Panasonic-TV, Network: Intel Connection I217-V + Broadcom Device 43b1

OS: SteamOS 1.0, Kernel: 3.10-3-amd64 (x86_64), Desktop: GNOME Shell 3.4.2, Display Server: X Server 1.12.4, Display Driver: NVIDIA 331.20, OpenGL: 4.4.0, Compiler: GCC 4.7.2, File-System: ext4, Screen Resolution: 1920x1080

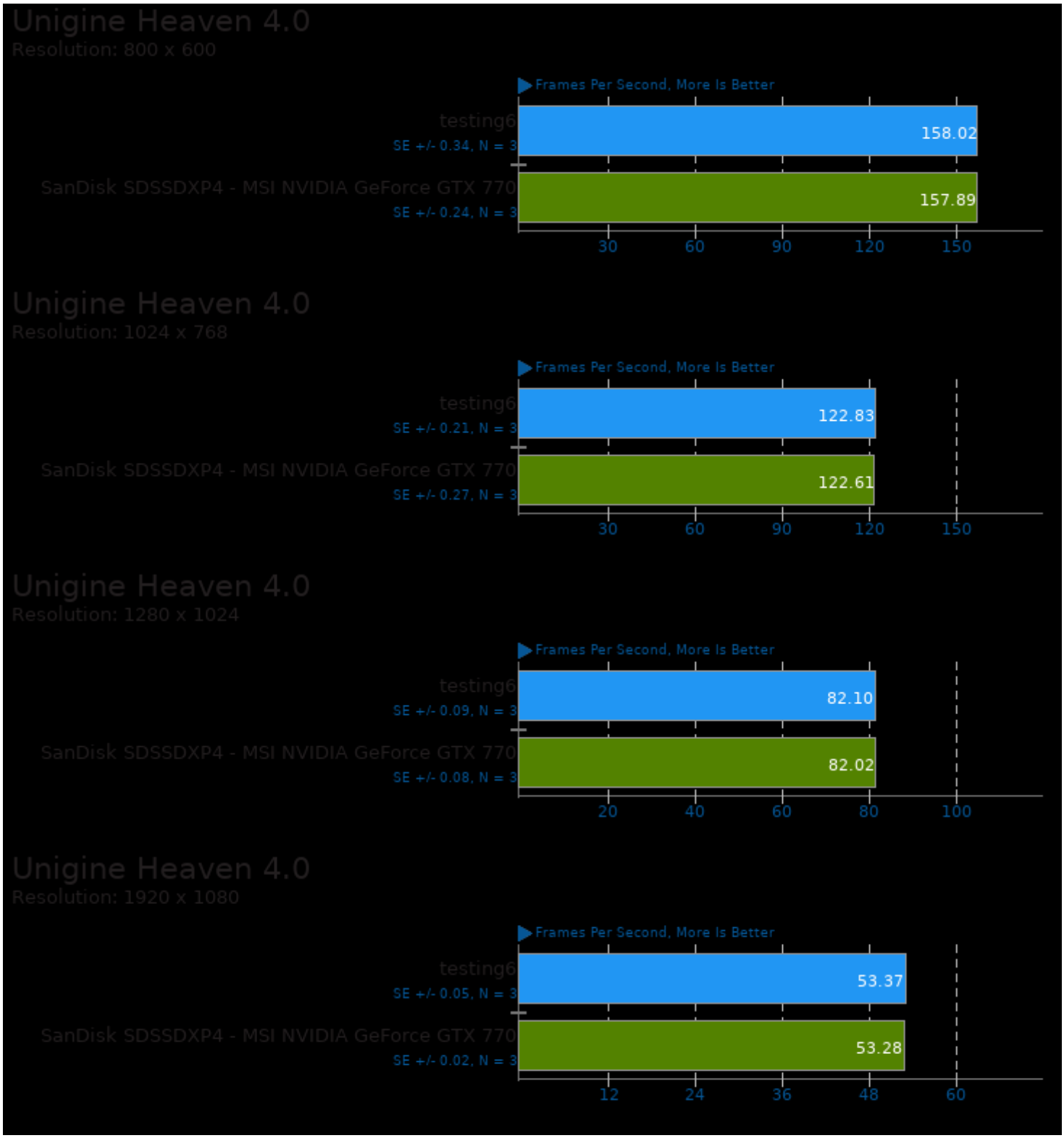
Compiler Notes: --build=x86_64-linux-gnu --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,go,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-arch-32=i686 --with-tune=generic -v
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
System Notes: Disk Scheduler: CFQ. Python 2.7.3.

	SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770	testing6
Unigine Heaven - 800 x 600 (FPS)	**157.89**	**158.02**
Normalized	99.92%	100%
Standard Deviation	0.3%	0.4%
Unigine Heaven - 1024 x 768 (FPS)	**122.61**	**122.83**
Normalized	99.82%	100%
Standard Deviation	0.4%	0.3%
Unigine Heaven - 1280 x 1024 (FPS)	**82.02**	**82.10**

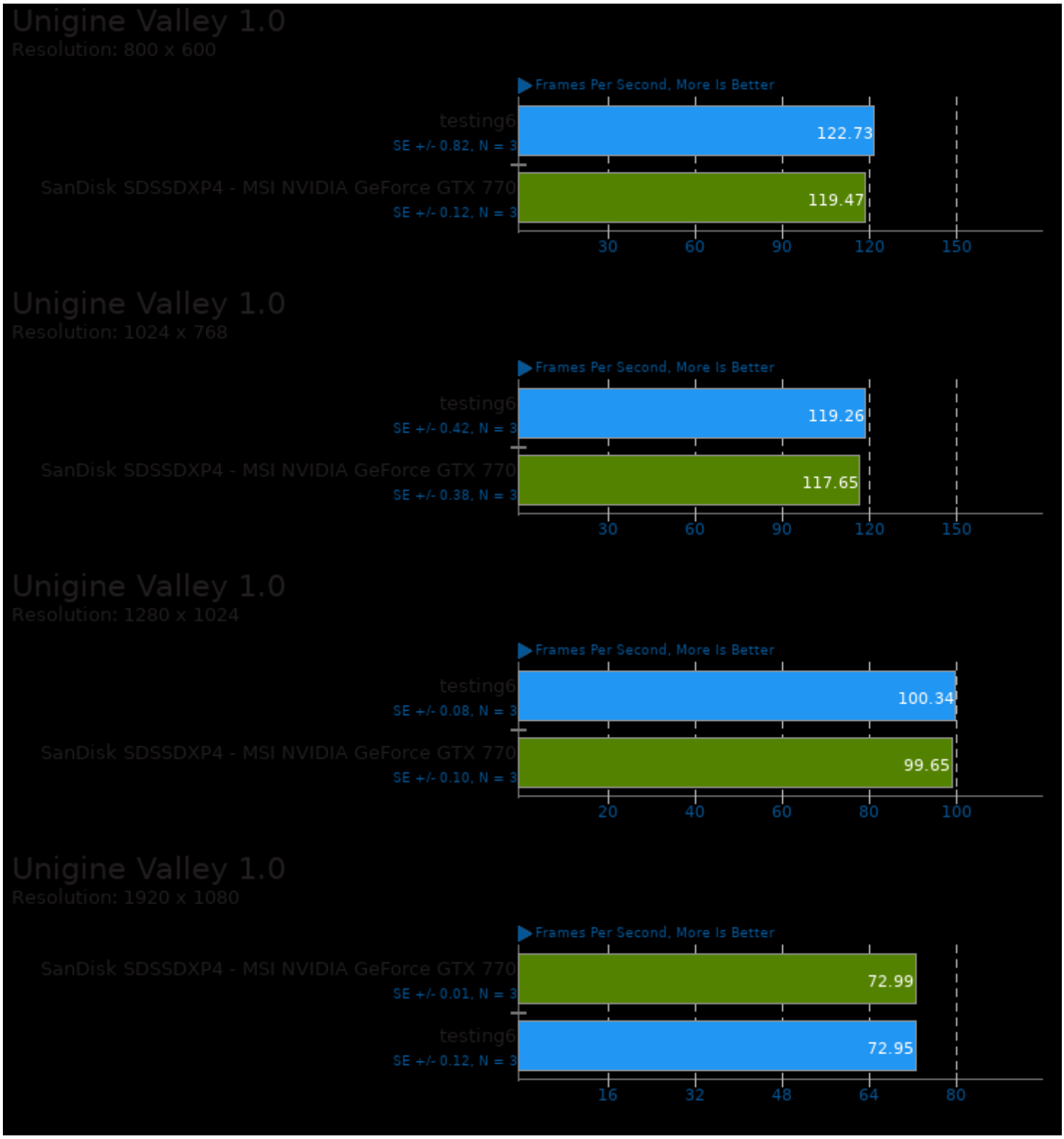
testing5

Normalized	99.9%	100%
Standard Deviation	0.2%	0.2%
Unigine Heaven - 1920 x 1080 (FPS)	**53.28**	**53.37**
Normalized	99.83%	100%
Standard Deviation	0.1%	0.2%
Unigine Valley - 800 x 600 (FPS)	**119.47**	**122.73**
Normalized	97.34%	100%
Standard Deviation	0.2%	1.2%
Unigine Valley - 1024 x 768 (FPS)	**117.65**	**119.26**
Normalized	98.65%	100%
Standard Deviation	0.6%	0.6%
Unigine Valley - 1280 x 1024 (FPS)	**99.65**	**100.34**
Normalized	99.31%	100%
Standard Deviation	0.2%	0.1%
Unigine Valley - 1920 x 1080 (FPS)	**72.99**	**72.95**
Normalized	100%	99.95%
Standard Deviation	0%	0.3%
IOzone - 4Kb - 512MB - Read Performance (MB/s)	**8125**	**8137**
Normalized	99.85%	100%
Standard Deviation	2.4%	3.2%
IOzone - 4Kb - 512MB - Write Performance (MB/s)	**385.92**	**389.82**
Normalized	99%	100%
Standard Deviation	0.5%	0.7%
Himeno Benchmark - P.P.S (MFLOPS)	**1767**	**1578**
Normalized	100%	89.28%
Standard Deviation	0.6%	0.5%
7-Zip Compression - C.S.T (MIPS)	**14919**	**15230**
Normalized	97.96%	100%
Standard Deviation	1%	1.9%
Apache Benchmark - S.W.P.S (Reqs/sec)	**26987**	**27108**
Normalized	99.55%	100%
Standard Deviation	0.2%	0.5%
PyBench - T.F.A.T.T (Milliseconds)	**1568**	**1556**
Normalized	99.23%	100%
Standard Deviation	0.3%	0.1%
Unpacking The Linux Kernel - linux-2.6.32.tar.bz2	**8.35**	**8.19**
Normalized	98.08%	100%
Standard Deviation	1.1%	2.3%
Timed Linux Kernel Compilation - Time To Compile	**91.85**	**89.77**
Normalized	97.74%	100%
Standard Deviation	1.2%	0.9%
Gzip Compression - 2.F.C (sec)	**10.97**	**10.58**
Normalized	96.44%	100%
Standard Deviation	2.8%	0.2%
FFmpeg - H.2.H.T.N.D (sec)	**12.93**	**12.97**
Normalized	100%	99.69%
Standard Deviation	0.7%	1.1%
Sudokut - Total Time (sec)	**16.13**	**15.87**
Normalized	98.39%	100%
Standard Deviation	1.4%	0.4%
Tachyon - Total Time (sec)	**16.28**	**16.15**
Normalized	99.2%	100%
Standard Deviation	0.4%	0.2%
Sunflow Rendering System - G.I.I.S (sec)	**3.21**	**3.27**
Normalized	100%	98.17%

Standard Deviation	0.5%	0.8%

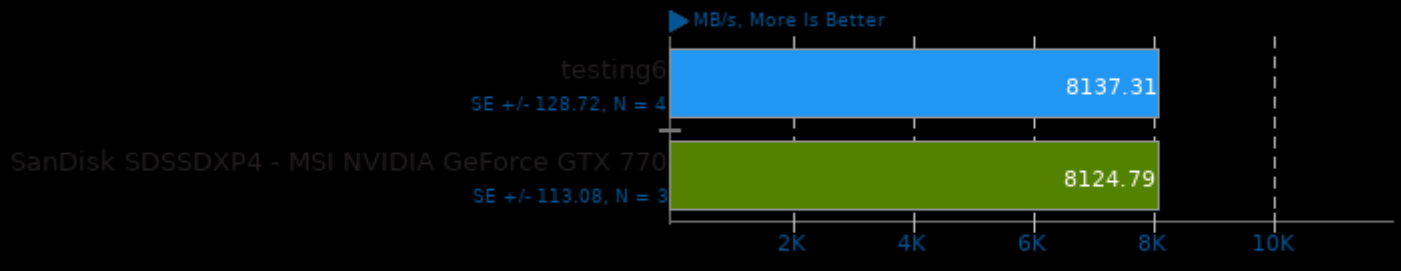

Unigine Heaven 4.0
Resolution: 800 x 600
Frames Per Second, More Is Better
testing6
SE +/- 0.34, N = 3
158.02
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.24, N = 3
157.89
30
60
90
120
150
Unigine Heaven 4.0
Resolution: 1024 x 768
Frames Per Second, More Is Better
testing6
SE +/- 0.21, N = 3
122.83
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.27, N = 3
122.61
30
60
90
120
150
Unigine Heaven 4.0
Resolution: 1280 x 1024
Frames Per Second, More Is Better
testing6
SE +/- 0.09, N = 3
82.10
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.08, N = 3
82.02
20
40
60
80
100
Unigine Heaven 4.0
Resolution: 1920 x 1080
Frames Per Second, More Is Better
testing6
SE +/- 0.05, N = 3
53.37
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.02, N = 3
53.28
12
24
36
48
60

testing5


Unigine Valley 1.0
Resolution: 800 x 600
Frames Per Second, More Is Better
testing6
SE +/- 0.82, N = 3
122.73
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.12, N = 3
119.47
30
60
90
120
150
Unigine Valley 1.0
Resolution: 1024 x 768
Frames Per Second, More Is Better
testing6
SE +/- 0.42, N = 3
119.26
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.38, N = 3
117.65
30
60
90
120
150
Unigine Valley 1.0
Resolution: 1280 x 1024
Frames Per Second, More Is Better
testing6
SE +/- 0.08, N = 3
100.34
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.10, N = 3
99.65
20
40
60
80
100
Unigine Valley 1.0
Resolution: 1920 x 1080
Frames Per Second, More Is Better
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.01, N = 3
72.99
testing6
SE +/- 0.12, N = 3
72.95
16
32
48
64
80

IOzone 3.405

Record Size: 4Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.405

Record Size: 4Kb - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

Himeno Benchmark 3.0

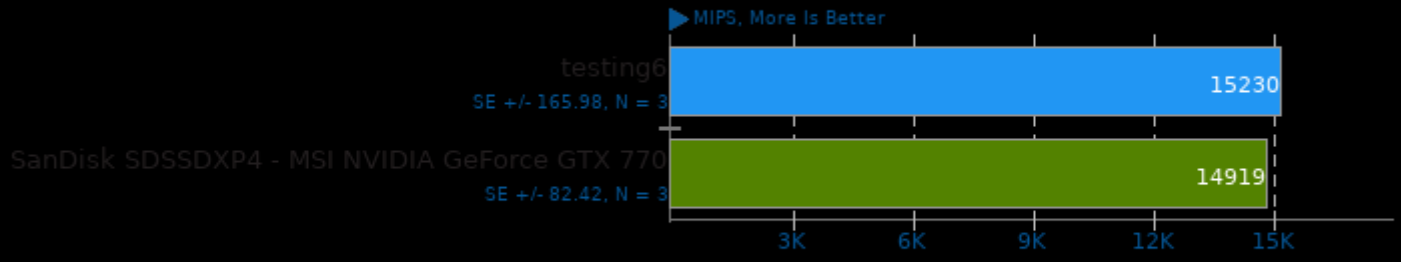
Poisson Pressure Solver



1. (CC) gcc options: -O3

7-Zip Compression 9.20.1

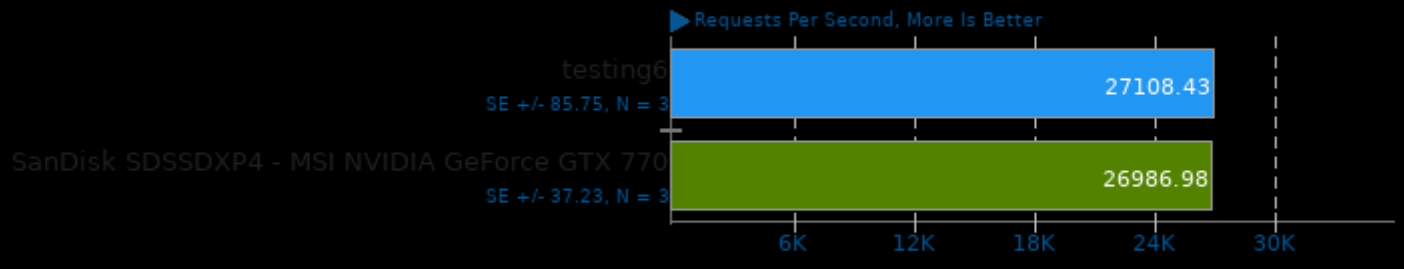
Compress Speed Test



1. (CXX) g++ options: -pipe -lpthread

Apache Benchmark 2.4.7

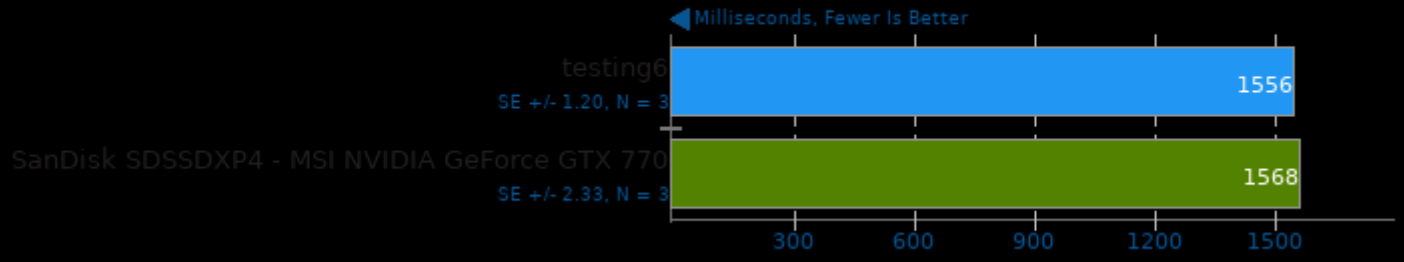
Static Web Page Serving



1. (CC) gcc options: -shared -fPIC -O2 -pthread

PyBench 2008-08-14

Total For Average Test Times



Unpacking The Linux Kernel

linux-2.6.32.tar.bz2



Timed Linux Kernel Compilation 3.1

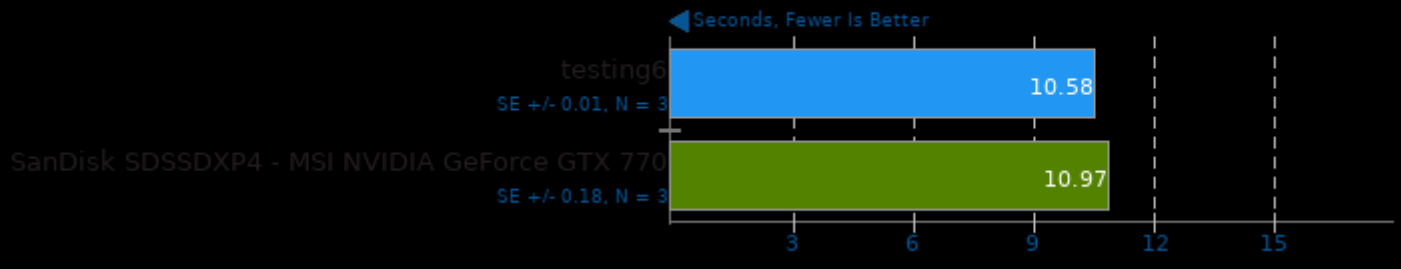
Time To Compile



testing5

Gzip Compression

2GB File Compression



FFmpeg 2.1.1

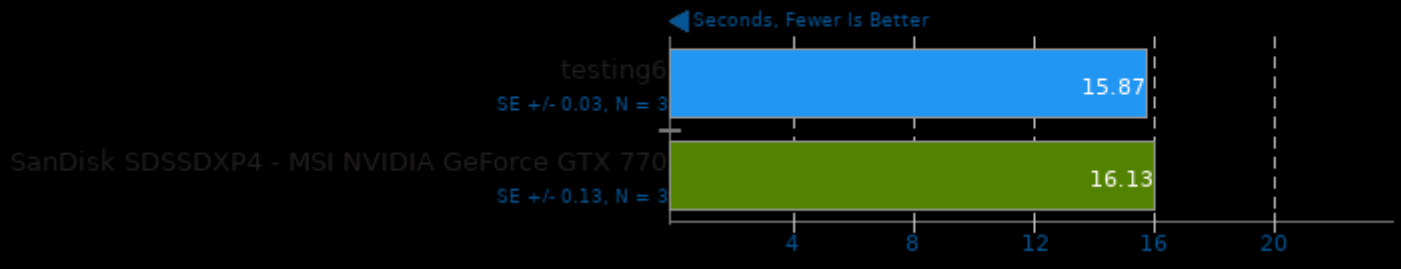
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -ldl -lm -pthread -std=c99 -fomit-frame-pointer -O3 -fno-mat

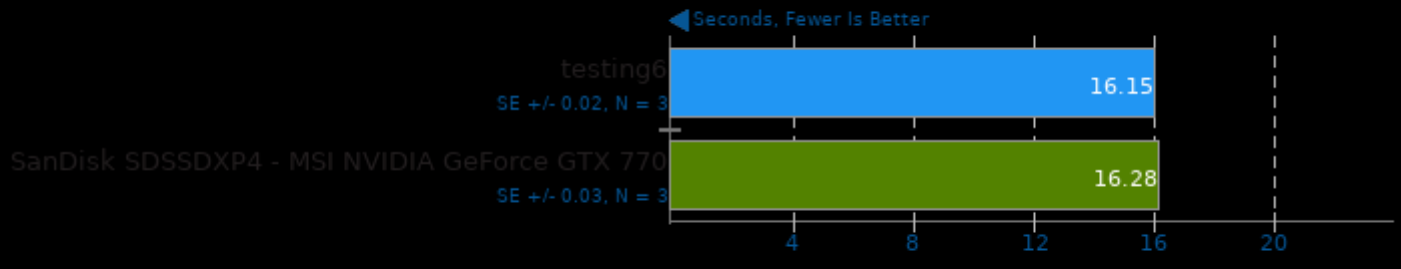
Sudokut 0.4

Total Time

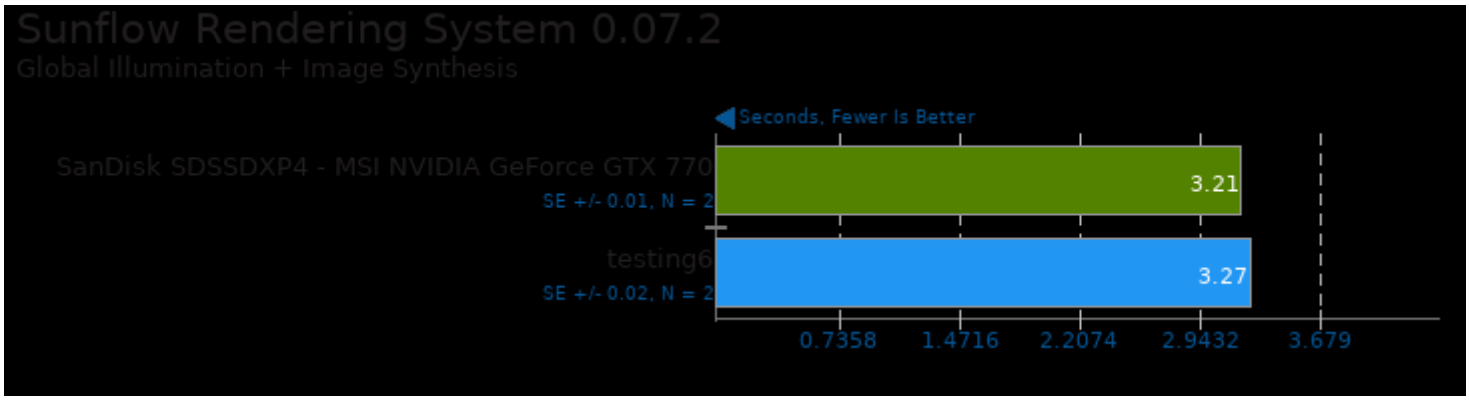


Tachyon 0.98.9

Total Time

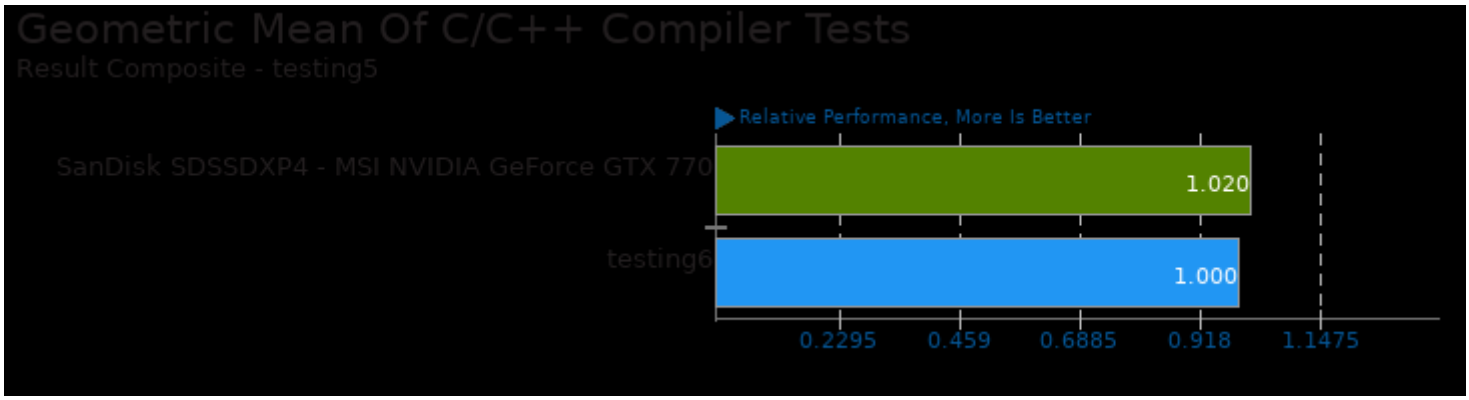


1. (CC) gcc options: -m32 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread

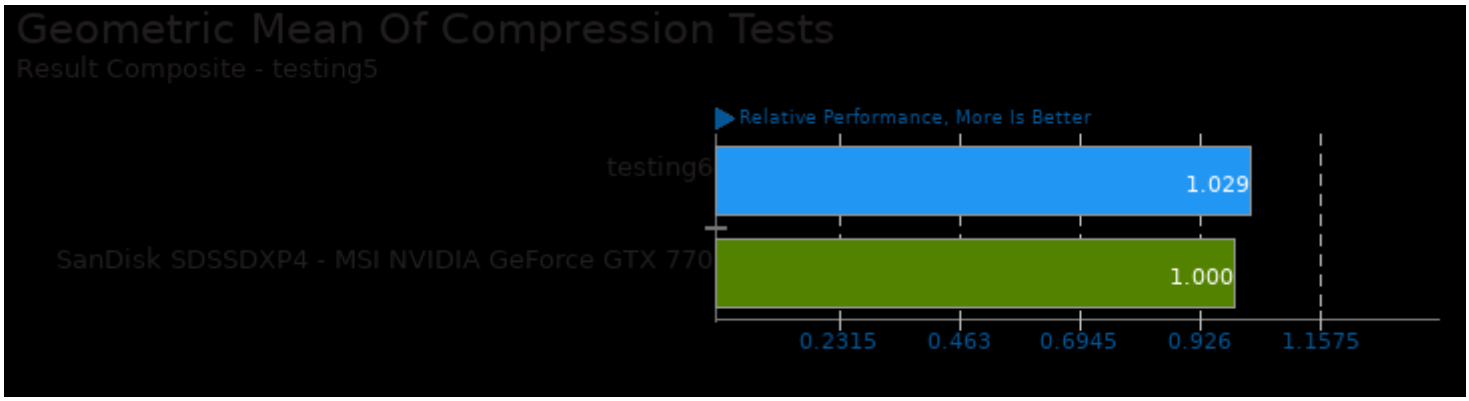

Sunflow Rendering System 0.07.2
Global Illumination + Image Synthesis
Seconds, Fewer Is Better
SanDisk SDSSDXP4 - MSI NVIDIA GeForce GTX 770
SE +/- 0.01, N = 2
3.21
testing6
SE +/- 0.02, N = 2
3.27
0.7358
1.4716
2.2074
2.9432
3.679

testing5

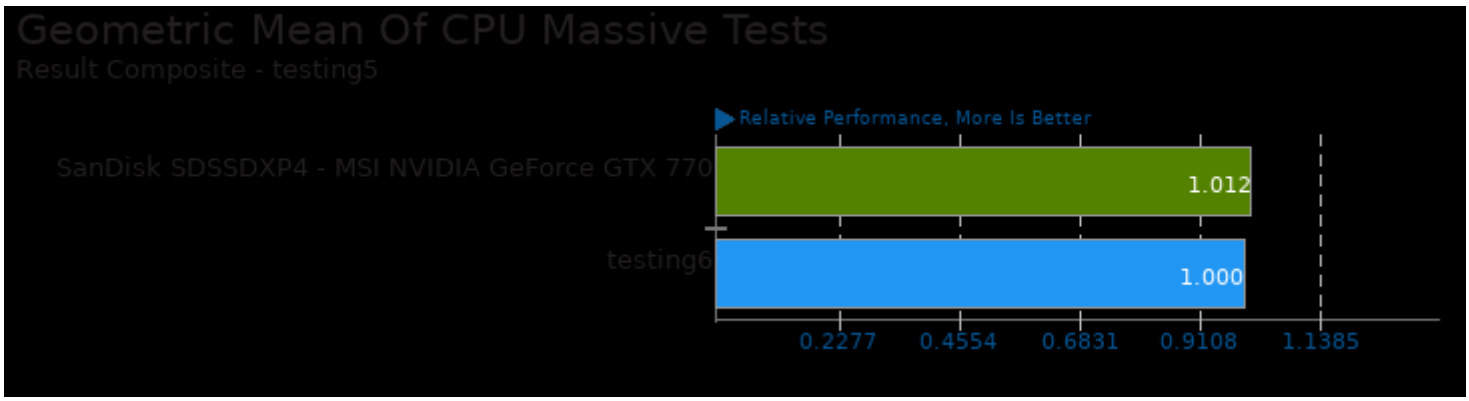
These geometric means are based upon test groupings / test suites for this result file.



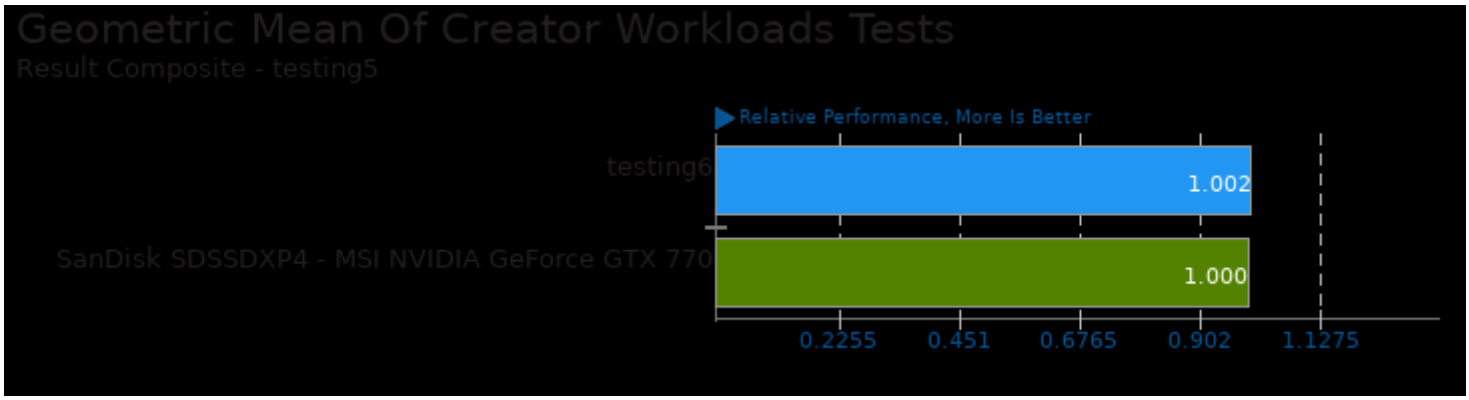
Geometric mean based upon tests: pts/himeno, pts/compress-7zip, pts/apache and pts/tachyon



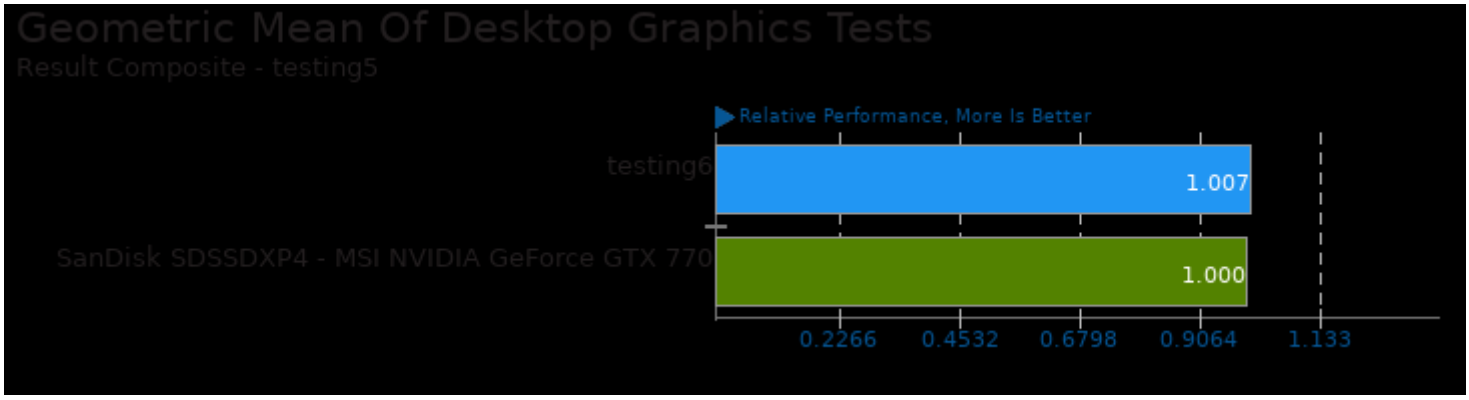
Geometric mean based upon tests: pts/compress-7zip and pts/compress-gzip



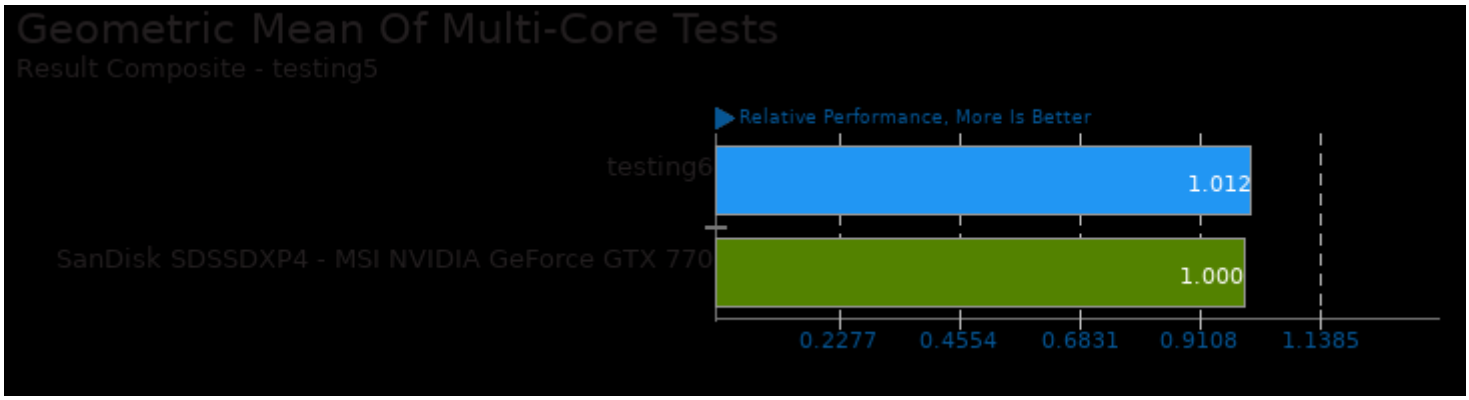
Geometric mean based upon tests: pts/apache, pts/build-linux-kernel, pts/compress-7zip, pts/himeno and pts/tachyon



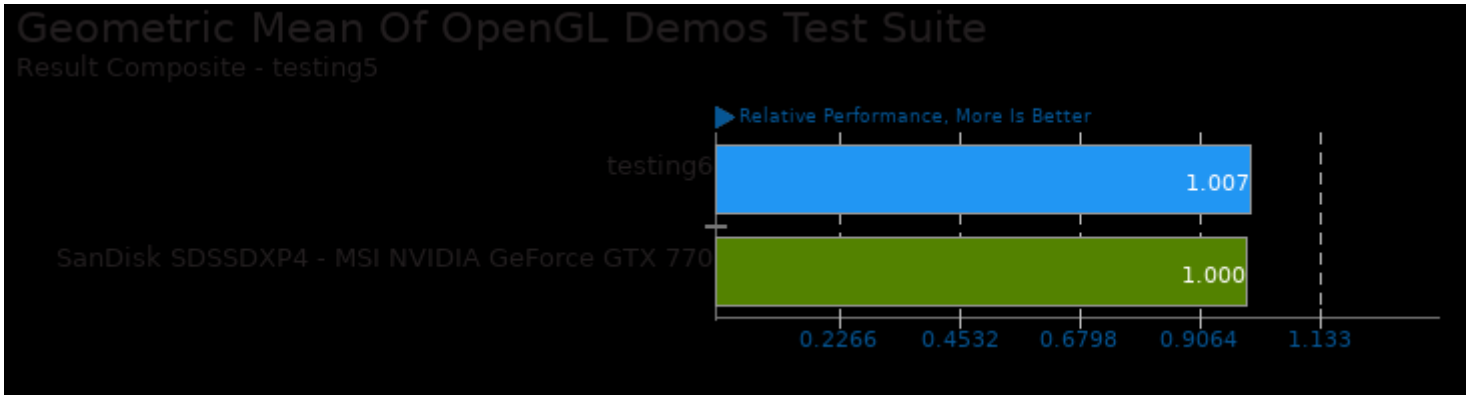
Geometric mean based upon tests: pts/tachyon and pts/ffmpeg



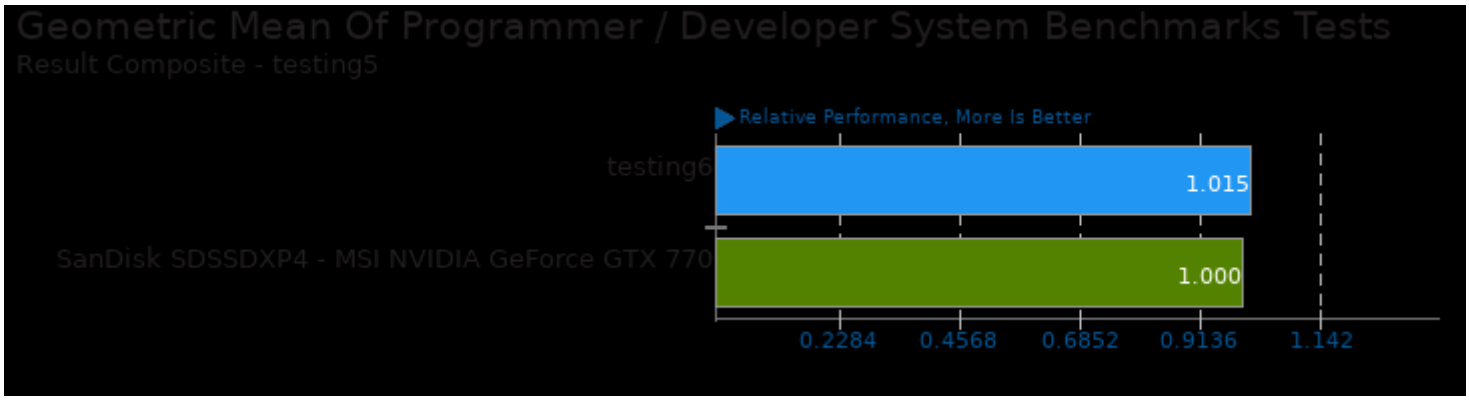
Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven



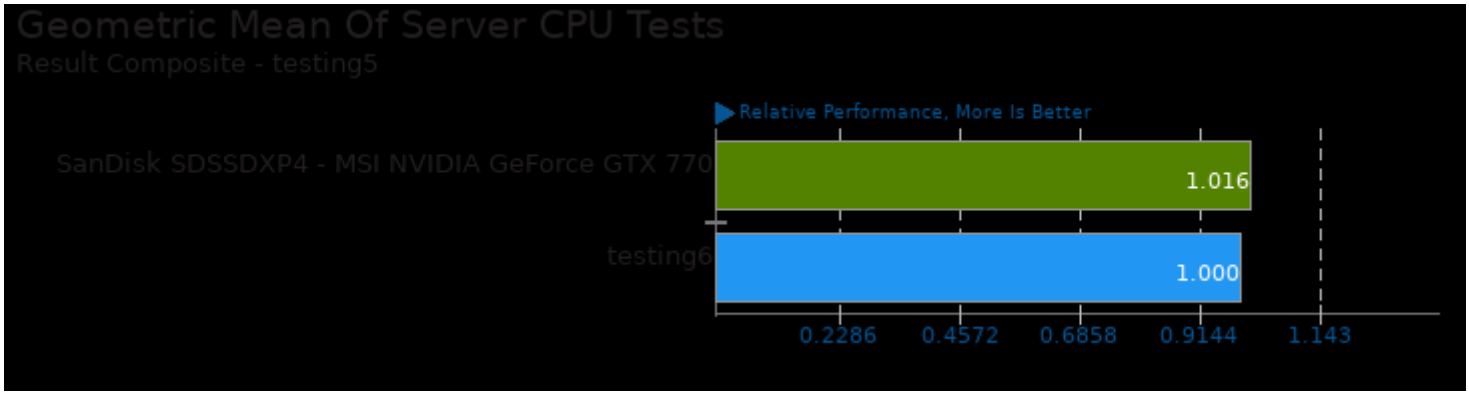
Geometric mean based upon tests: pts/tachyon, pts/ffmpeg, pts/compress-7zip and pts/build-linux-kernel



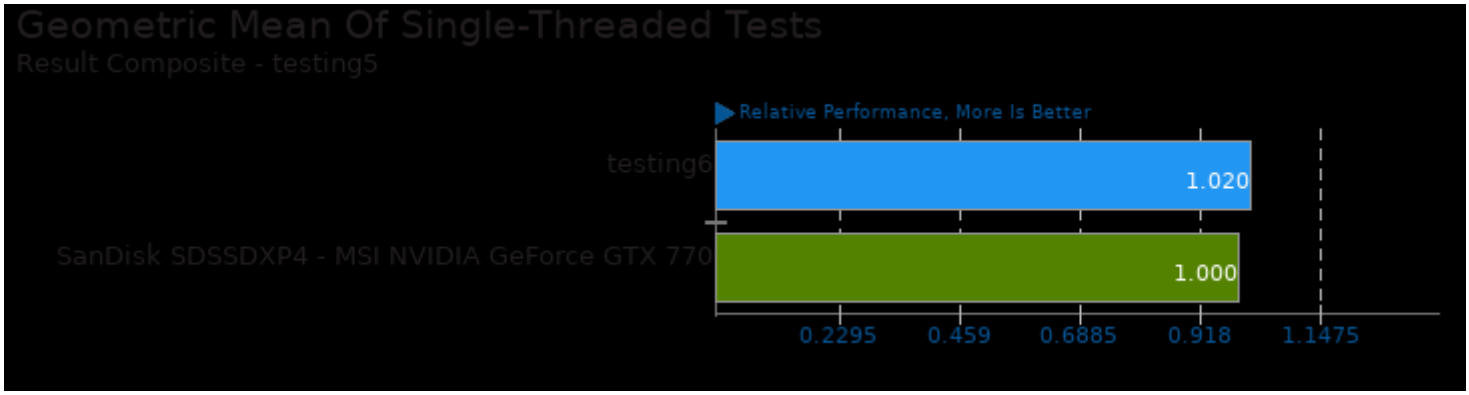
Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven



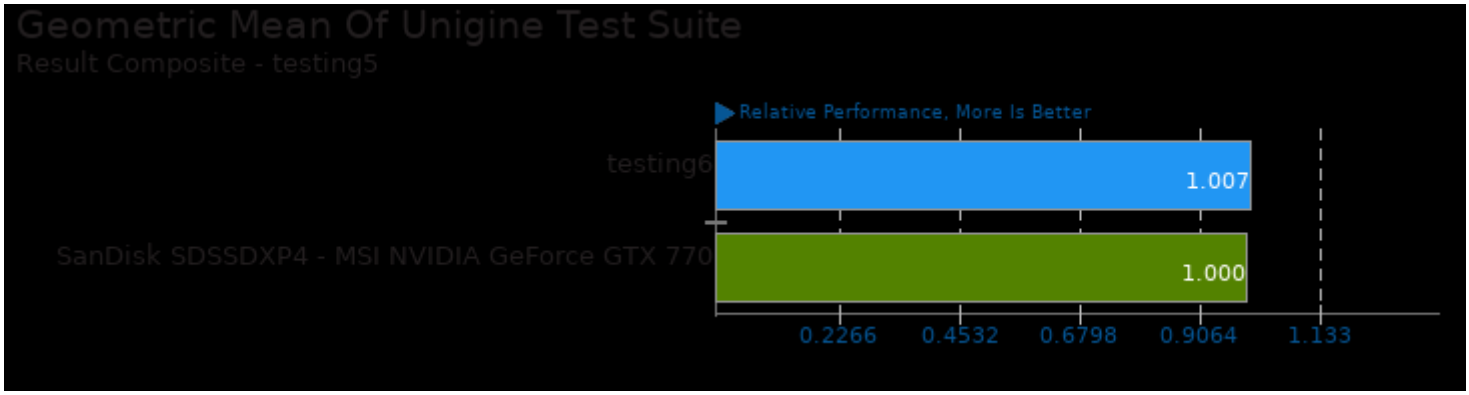
Geometric mean based upon tests: pts/pybench and pts/build-linux-kernel



Geometric mean based upon tests: pts/himeno, pts/compress-7zip, pts/build-linux-kernel and pts/pybench



Geometric mean based upon tests: pts/compress-gzip, pts/sudokut and pts/pybench



Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven

testing5

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 07:11.