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openSUSE 12.3 Benchmarks

openSUSE 12.2 versus openSUSE 12.3 benchmarks from Intel Core i5 Sandy Bridge HP EliteBook laptop. Benchmarks by michael larabel of Phoronix for a future article on openSUSE Linux performance.

Automated Executive Summary

openSUSE 12.2 had the most wins, coming in first place for 56% of the tests.

Based on the geometric mean of all complete results, the fastest (openSUSE 12.2) was 1.098x the speed of the slowest (openSUSE 12.3).

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

Nexuiz (Resolution: 1600 x 900 - HDR: Yes - Sound: Off) at 2.667x
Open FMM Nero2D (Total Time) at 2.576x
NAS Parallel Benchmarks (Test / Class: EP.B) at 1.333x
Smallpt (Global Illumination Renderer; 100 Samples) at 1.096x
OpenArena (Resolution: 1600 x 900) at 1.065x
NAS Parallel Benchmarks (Test / Class: UA.A) at 1.059x
Dbench (Client Count: 1) at 1.041x
Timed MAFFT Alignment (Multiple Sequence Alignment) at 1.04x
OpenArena (Resolution: 1600 x 900) at 1.034x

NAS Parallel Benchmarks (Test / Class: SP.A) at 1.019x.

Test Systems:

openSUSE 12.2

Processor: Intel Core i5-2520M @ 2.50GHz (4 Cores), Motherboard: HP 161C, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 4096MB, Disk: 160GB INTEL SSDSA2M160, Graphics: Intel Sandybridge Mobile (GT2+) (1300MHz), Audio: IDT 92HD81B1X5, Network: Intel 82579LM Gigabit Connection + Intel Centrino Advanced-N 6205

OS: SUSE LINUX 12.2, Kernel: 3.4.6-2.10-desktop (x86_64), Desktop: GNOME Shell 3.4.2, Display Server: X Server 1.12.3, Display Driver: intel 2.20.0, OpenGL: 3.0 Mesa 8.0.4, Compiler: GCC 4.7, File-System: ext4, Screen Resolution: 1600x900

Compiler Notes: --build=x86_64-suse-linux --disable-libgcj --disable-libitm --disable-libmudflap --disable-libssp --disable-libstdcxx-pch --disable-plugin --enable-__cxa_atexit --enable-checking=release --enable-languages=c,c++,objc,fortran,obj-c++,java,ada --enable-libstdcxx-allocator=new --enable-linux-futex --enable-ssp --enable-version-specific-runtime-libs --mandir=/usr/share/man --with-arch-32=i586 --with-slibdir=/lib64 --with-tune=generic --without-system-libunwind
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: ondemand
Graphics Notes: UXA
System Notes: Disk Scheduler: CFQ.

openSUSE 12.3

Processor: Intel Core i5-2520M @ 2.50GHz (4 Cores), Motherboard: HP 161C, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 4096MB, Disk: 160GB INTEL SSDSA2M160, Graphics: Intel 2nd Generation Core Family IGP, Audio: IDT 92HD81B1X5, Network: Intel 82579LM Gigabit Connection + Intel Centrino Advanced-N 6205

OS: openSUSE project 12.3, Kernel: 3.7.10-1.1-desktop (x86_64), Desktop: GNOME Shell 3.6.3.1, Display Server: X Server 1.13.2, Display Driver: intel 2.20.19, OpenGL: 3.0 Mesa 9.0.2, Compiler: GCC 4.7, File-System: ext4, Screen Resolution: 1600x900

Compiler Notes: --build=x86_64-suse-linux --disable-libgcj --disable-libitm --disable-libmudflap --disable-libssp --disable-libstdcxx-pch --disable-plugin --enable-__cxa_atexit --enable-checking=release --enable-languages=c,c++,objc,fortran,obj-c++,java,ada --enable-libstdcxx-allocator=new --enable-linux-futex --enable-ssp --enable-version-specific-runtime-libs --mandir=/usr/share/man --with-arch-32=i586 --with-slibdir=/lib64 --with-tune=generic --without-system-libunwind
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: ondemand
Graphics Notes: UXA
System Notes: Disk Scheduler: CFQ.

	openSUSE 12.2	openSUSE 12.3
Dbench - 1 (MB/s)	**354.78**	**340.85**
Normalized	100%	96.07%
Standard Deviation	0.3%	0.5%
PostMark - D.T.P (TPS)	**1164**	**1159**
Normalized	100%	99.57%
Standard Deviation	0.7%	0.2%

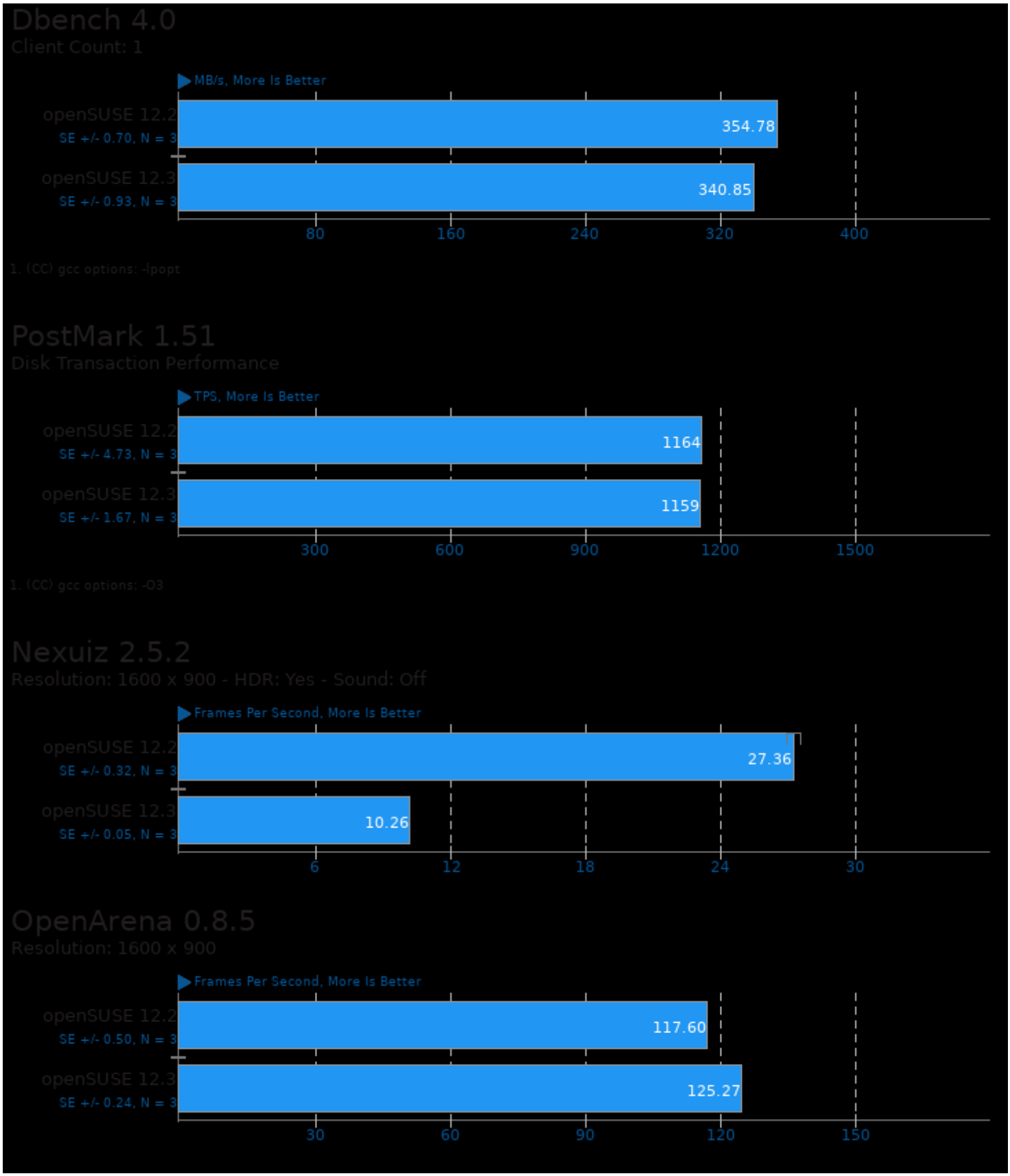
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Nexuiz - 1600 x 900 - Yes - Off (FPS)	**27.36**	**10.26**
Normalized	100%	37.5%
Standard Deviation	2.1%	0.8%
OpenArena - 1600 x 900 (FPS)	**117.60**	**125.27**
Normalized	93.88%	100%
Standard Deviation	0.7%	0.3%
OpenArena - 1600 x 900 (FPS)	**23.87**	**24.67**
Normalized	96.76%	100%
Standard Deviation	0.2%	0.6%
Warsow - 1600 x 900 (FPS)		30.53
Standard Deviation		0.7%
Xonotic - 1600 x 900 - High (FPS)	**36.85**	**40.87**
Normalized	90.16%	100%
Standard Deviation	1.4%	6.7%
NAS Parallel Benchmarks - EP.B (Mop/s)	**101.59**	**76.23**
Normalized	100%	75.04%
Standard Deviation	0.2%	3.3%
NAS Parallel Benchmarks - LU.A (Mop/s)	**3577**	**3214**
Normalized	100%	89.85%
Standard Deviation	0.6%	29.5%
NAS Parallel Benchmarks - MG.B (Mop/s)	**2764**	**2765**
Normalized	99.94%	100%
Standard Deviation	0.2%	0.1%
NAS Parallel Benchmarks - SP.A (Mop/s)	**2469**	**2424**
Normalized	100%	98.17%
Standard Deviation	0.6%	0.8%
NAS Parallel Benchmarks - UA.A (Mop/s)	**16.77**	**15.83**
Normalized	100%	94.39%
Standard Deviation	0%	0.2%
FFTE - N.6.1.C.F.R (MFLOPS)	**4683**	**4701**
Normalized	99.62%	100%
Standard Deviation	0.6%	0.5%
Timed MAFFT Alignment - M.S.A (sec)	**12.65**	**13.15**
Normalized	100%	96.2%
Standard Deviation	5.7%	5.6%
BLAKE2 - P.T.S.v.4.0 (Cycles/Byte)	4.64	4.64
Standard Deviation	0.2%	0.1%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	**53.30**	**52.80**
Normalized	100%	99.06%
Standard Deviation	0.1%	0.2%
x264 - H.2.V.E (FPS)		60.87
Standard Deviation		0.8%
Himeno Benchmark - P.P.S (MFLOPS)	**1260**	**1275**
Normalized	98.83%	100%
Standard Deviation	0.3%	0.2%
Timed Linux Kernel Compilation - Time To Compile	**225.30**	**226.94**
Normalized	100%	99.28%
Standard Deviation	0.7%	0.6%
C-Ray - Total Time (sec)	**87.96**	**86.79**
Normalized	98.67%	100%
Standard Deviation	0.7%	0.1%
Parallel BZIP2 Compression - 2.F.C (sec)	**23.63**	**23.56**
Normalized	99.7%	100%
Standard Deviation	2.3%	3.2%
Smallpt - G.I.R.1.S (sec)	**249**	**273**

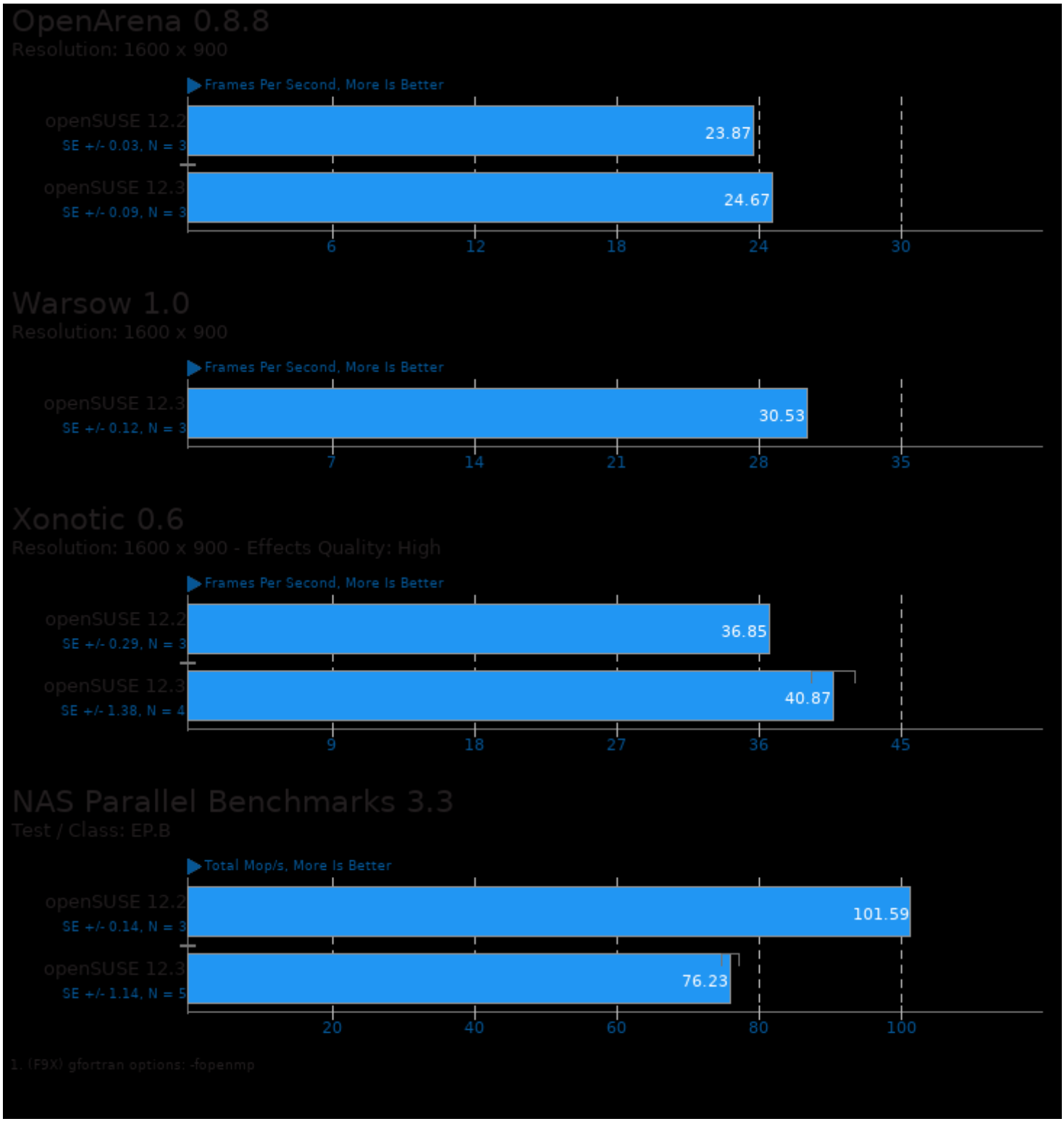
openSUSE 12.3 Benchmarks

Normalized	100%	91.21%
Standard Deviation	0.2%	0.2%
LAME MP3 Encoding - WAV To MP3 (sec)	**16.84**	**16.89**
Normalized	100%	99.7%
Standard Deviation	0.3%	0.3%
FFmpeg - H.2.H.T.N.D (sec)	**20.12**	**20.10**
Normalized	99.9%	100%
Standard Deviation	0.6%	0.3%
Open FMM Nero2D - Total Time (sec)	**552.19**	**1422**
Normalized	100%	38.82%
OpenSSL - R.4.b.P (Signs/sec)	**98.83**	**99.03**
Normalized	99.8%	100%
Standard Deviation	0.2%	0.6%
PostgreSQL pgbench - T.B.T.P.S (TPS)	**3638**	**3684**
Normalized	98.76%	100%
Standard Deviation	3.4%	3.2%

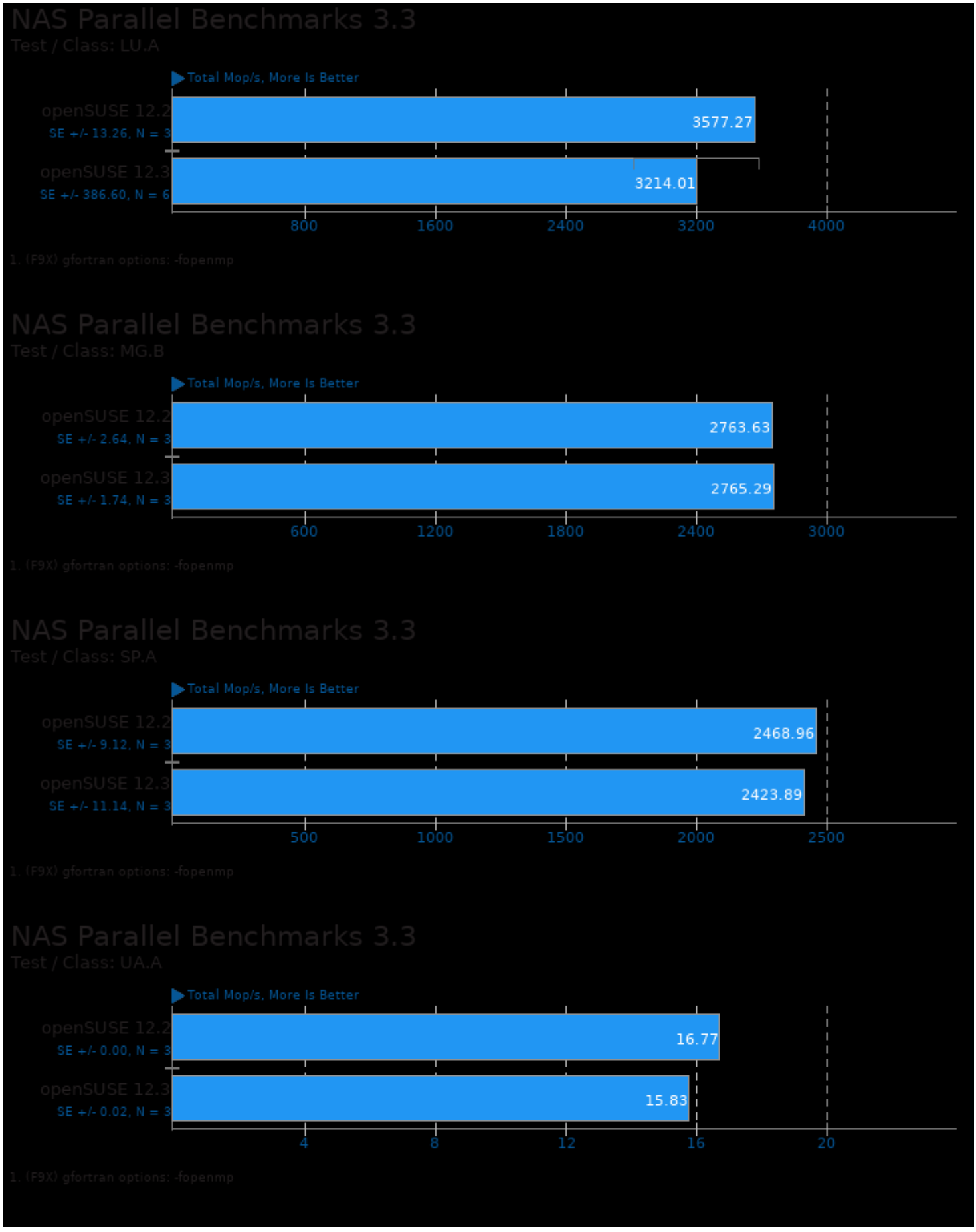
openSUSE 12.3 Benchmarks



openSUSE 12.3 Benchmarks

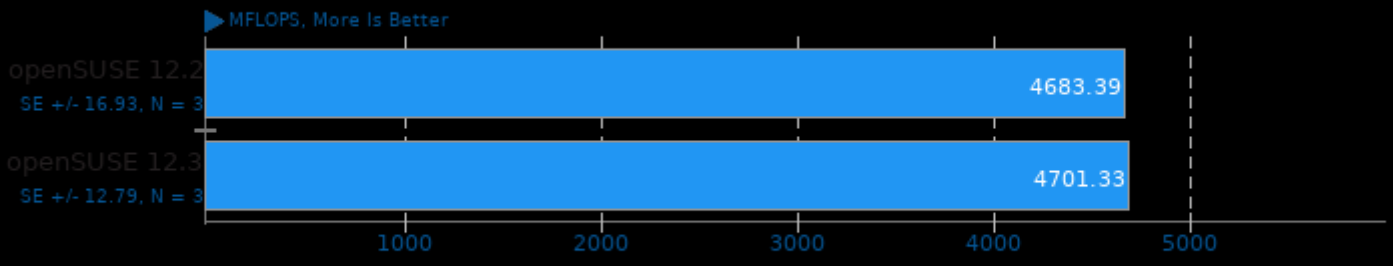


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FFTE 5.0

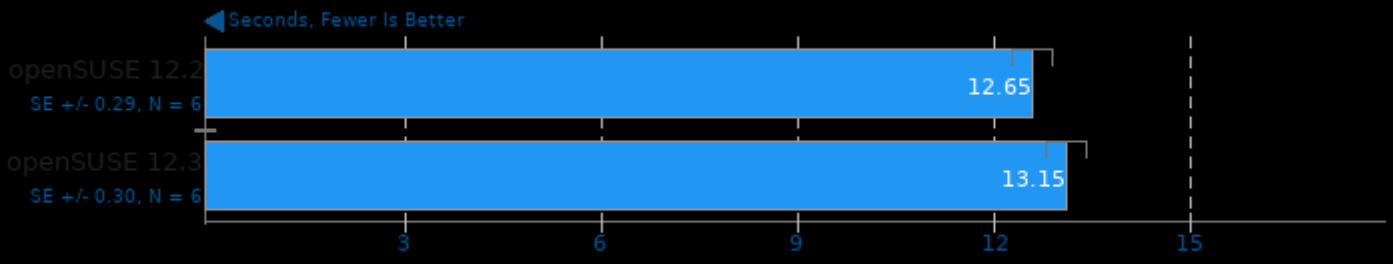
Test: N=64, 1D Complex FFT Routine



1. (F9X) gfortran options: -O3 -fomit-frame-pointer -fopenmp

Timed MAFFT Alignment 6.864

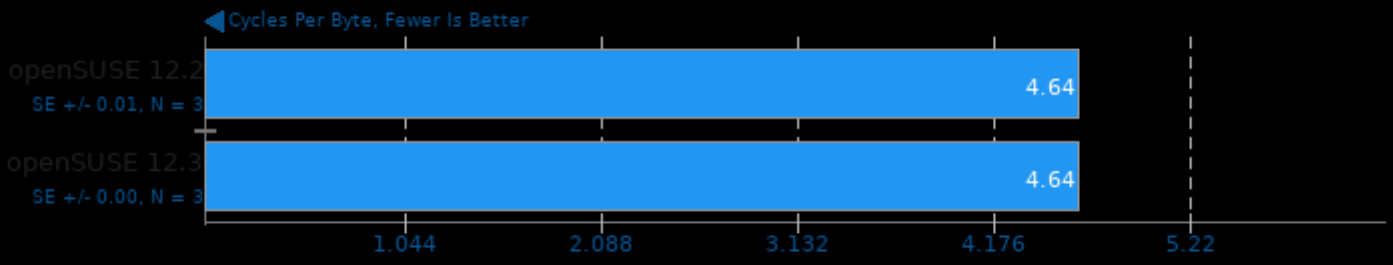
Multiple Sequence Alignment



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

BLAKE2 20121223

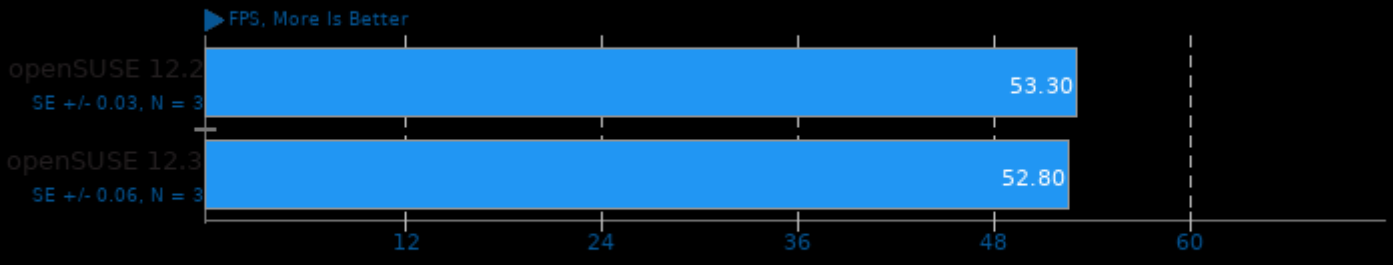
Phoronix Test Suite v4.4.0



1. (CC) gcc options: -std=gnu99 -O3 -march=native

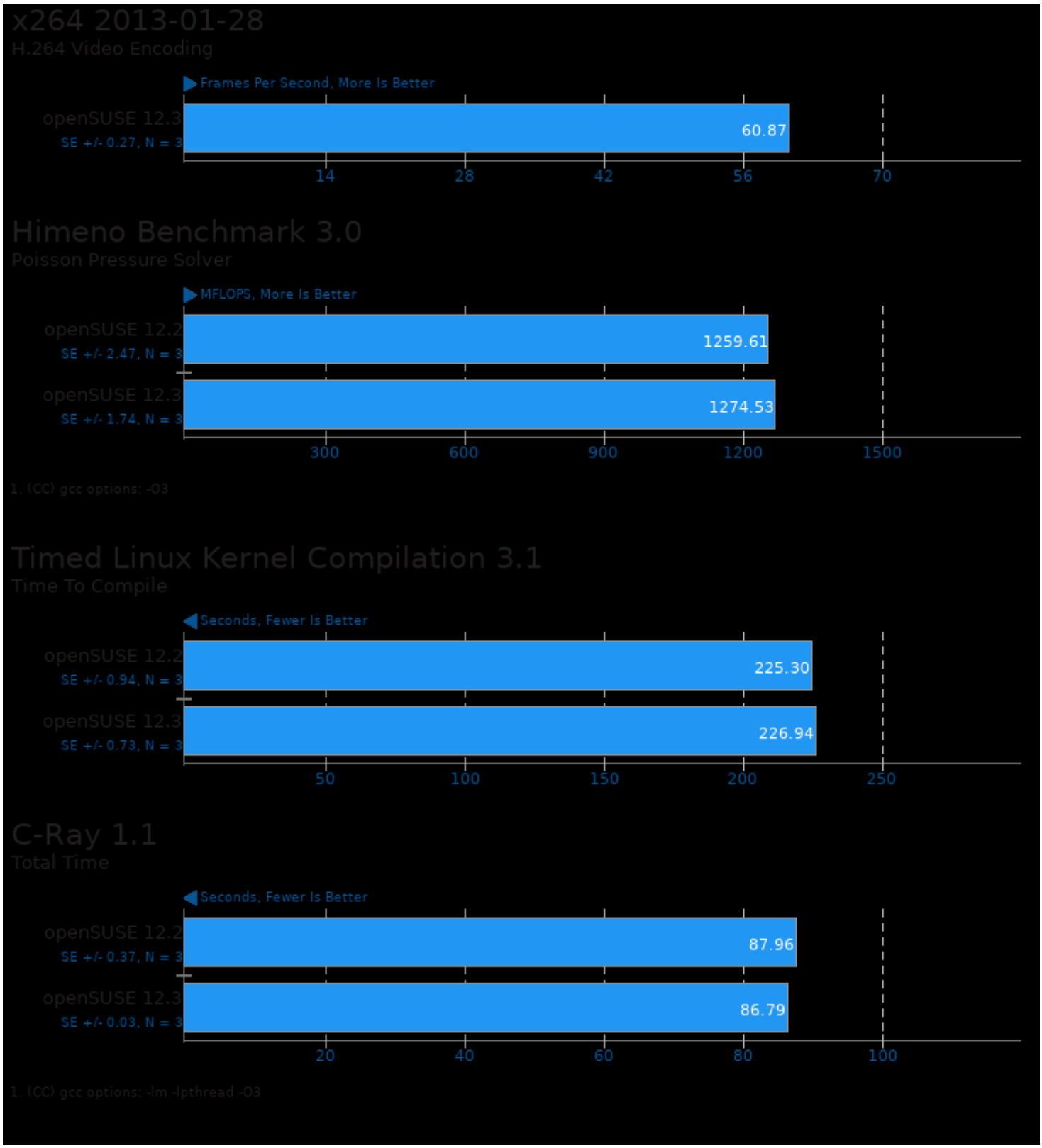
TTSIOD 3D Renderer 2.2z

Phong Rendering With Soft-Shadow Mapping



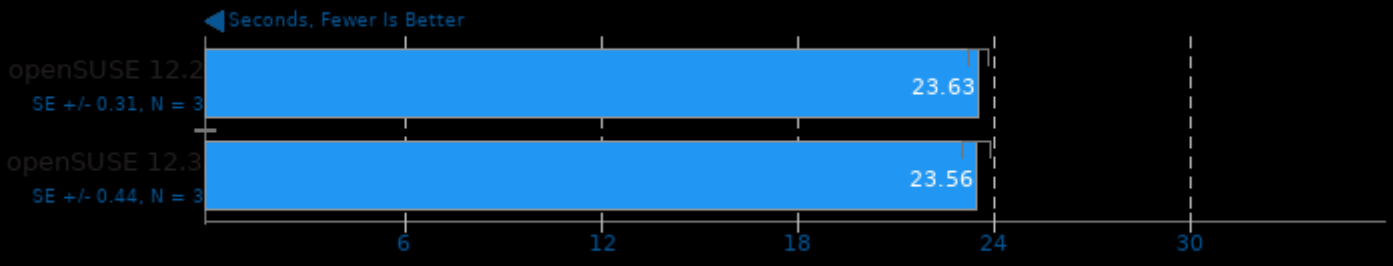
1. (CXX) g++ options: -O3 -fomit-frame-pointer -ffast-math -mtune=native -flto -msse -mrecip -mfpmath=sse -msse2 -mssse3 -lSDL -lpthread -lstdc++

openSUSE 12.3 Benchmarks



Parallel BZIP2 Compression 1.1.6

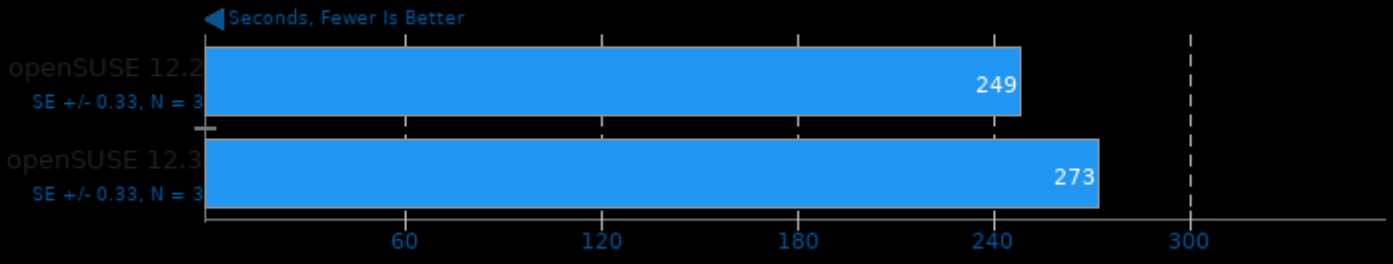
256MB File Compression



1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

Smallpt 1.0

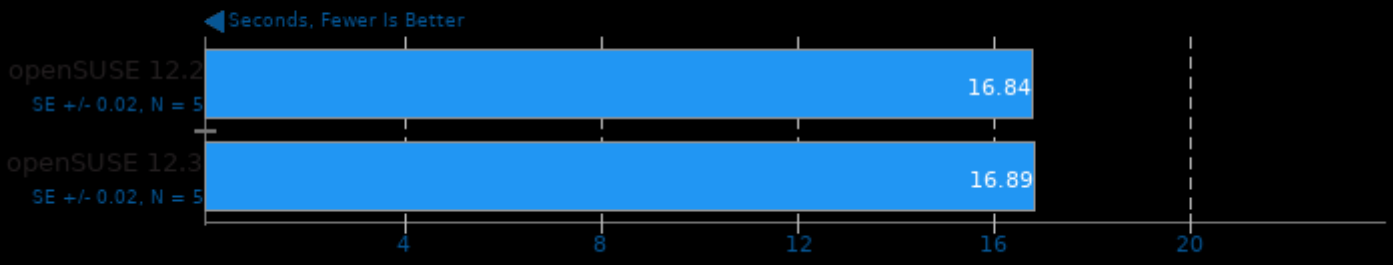
Global Illumination Renderer; 100 Samples



1. (CXX) g++ options: -fopenmp

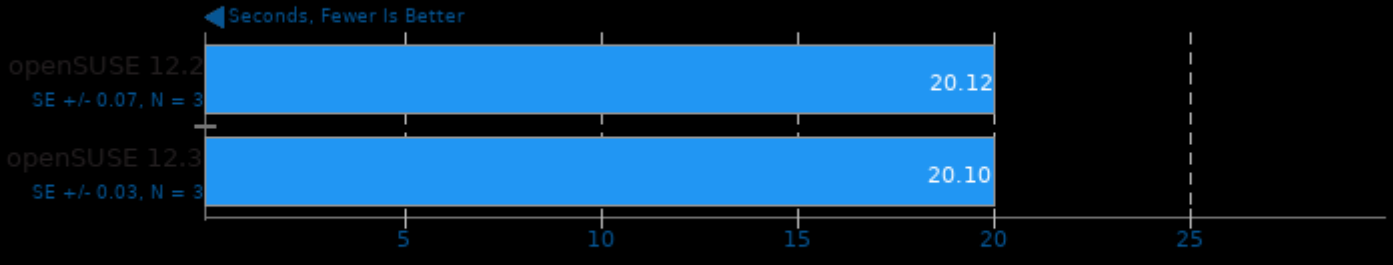
LAME MP3 Encoding 3.99.3

WAV To MP3



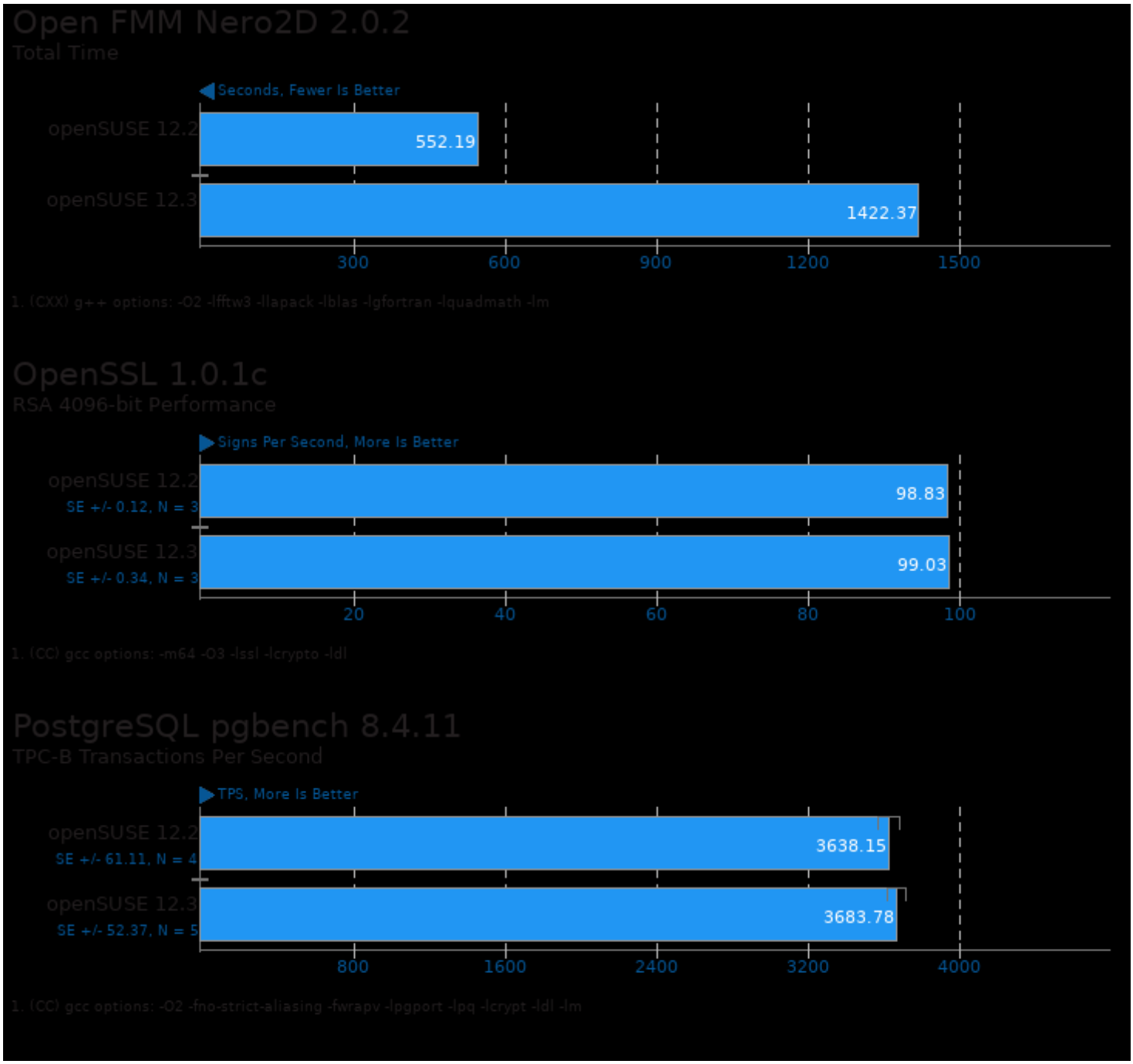
FFmpeg 1.1

H.264 HD To NTSC DV

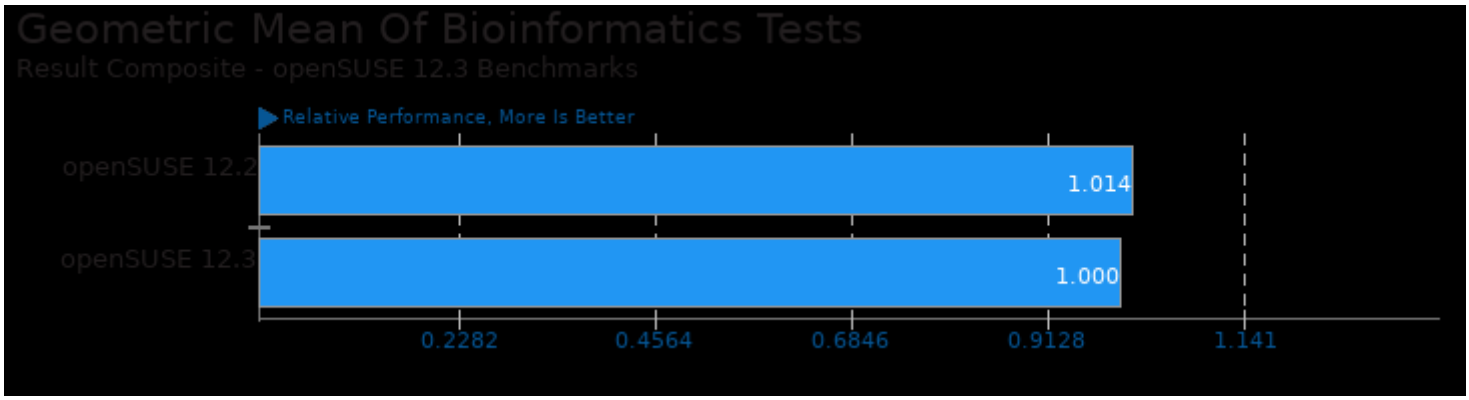


1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -ldl -lasound -lSDL -lpthread -lm -pthread

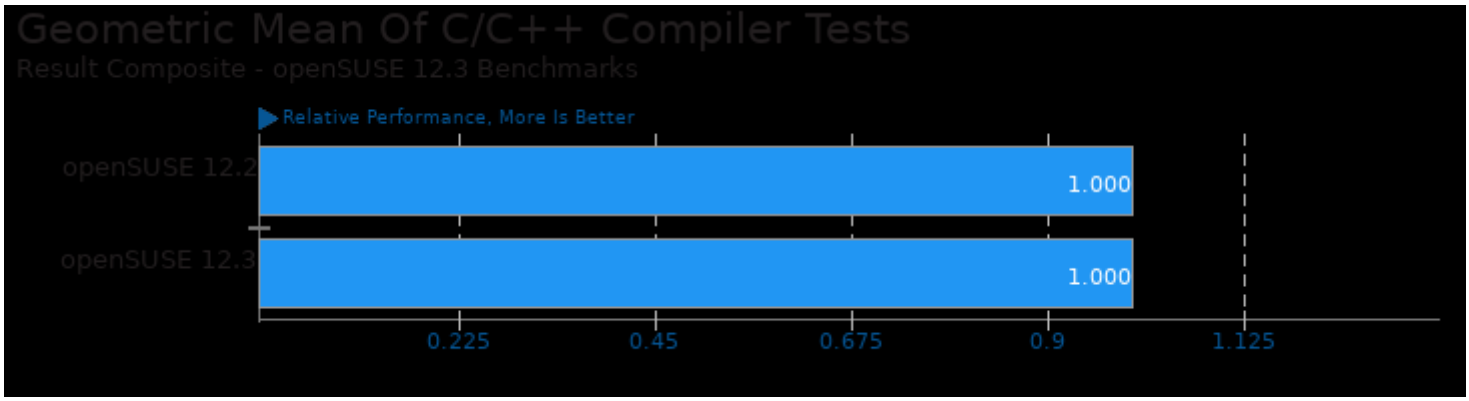
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These geometric means are based upon test groupings / test suites for this result file.



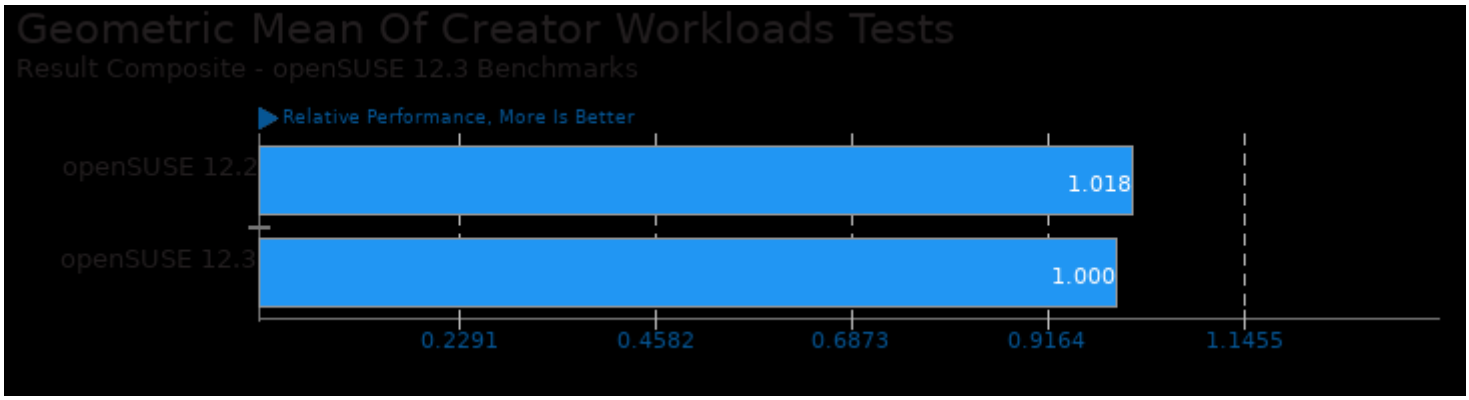
Geometric mean based upon tests: pts/himeno and pts/mafft



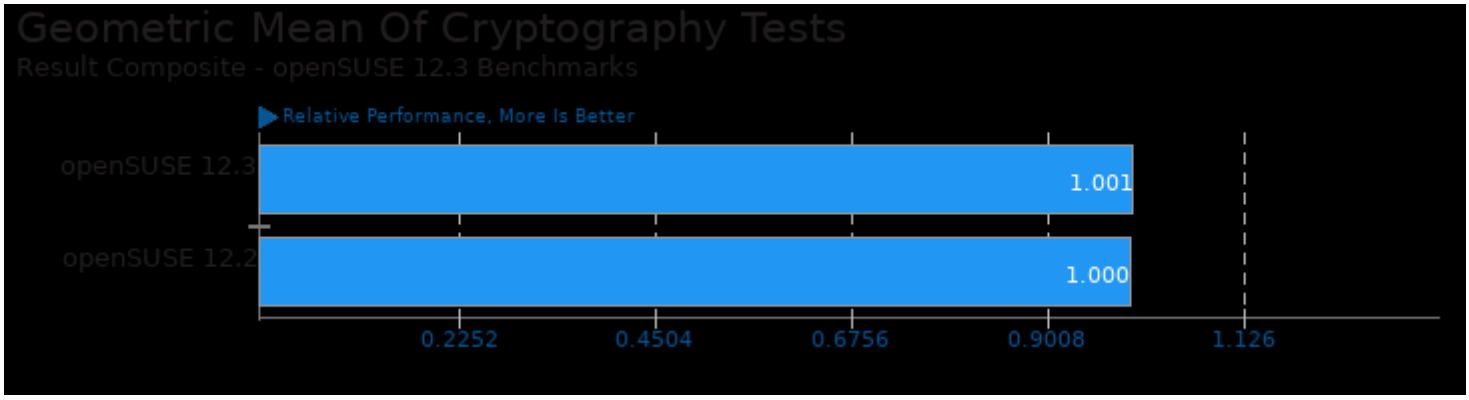
Geometric mean based upon tests: pts/mafft, pts/himeno, pts/c-ray, pts/encode-mp3, pts/pgbench, pts/x264 and pts/openssl



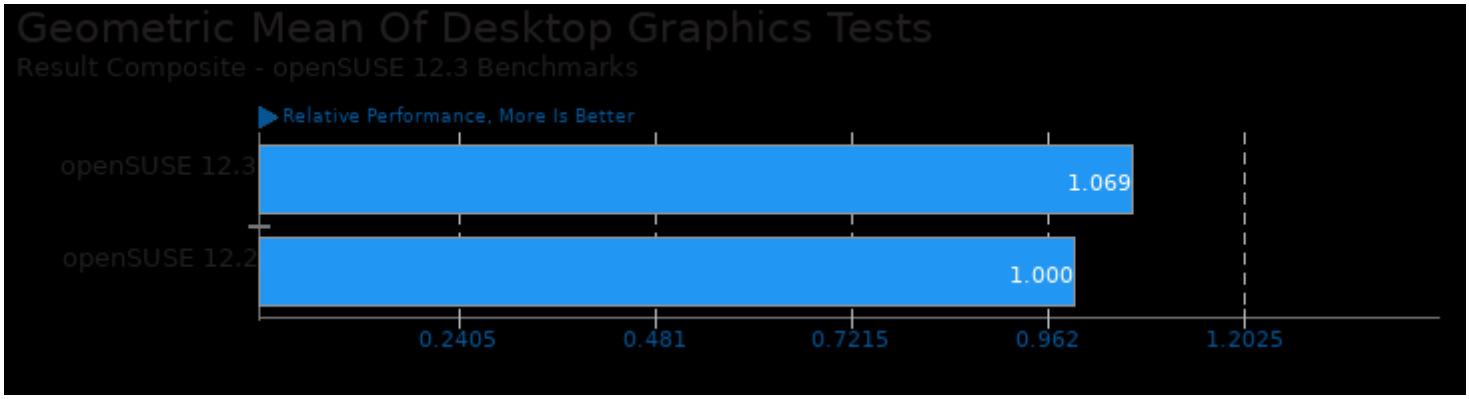
Geometric mean based upon tests: pts/blake2, pts/build-linux-kernel, pts/c-ray, pts/compress-pbzip2, pts/x264, pts/encode-mp3, pts/himeno, pts/openssl, pts/mafft, pts/nero2d, pts/npb, pts/pgbench and pts/ttsiod-renderer



Geometric mean based upon tests: pts/c-ray, pts/smallpt, pts/ttsiod-renderer, pts/x264, pts/ffmpeg and pts/encode-mp3



Geometric mean based upon tests: pts/openssl and pts/blake2



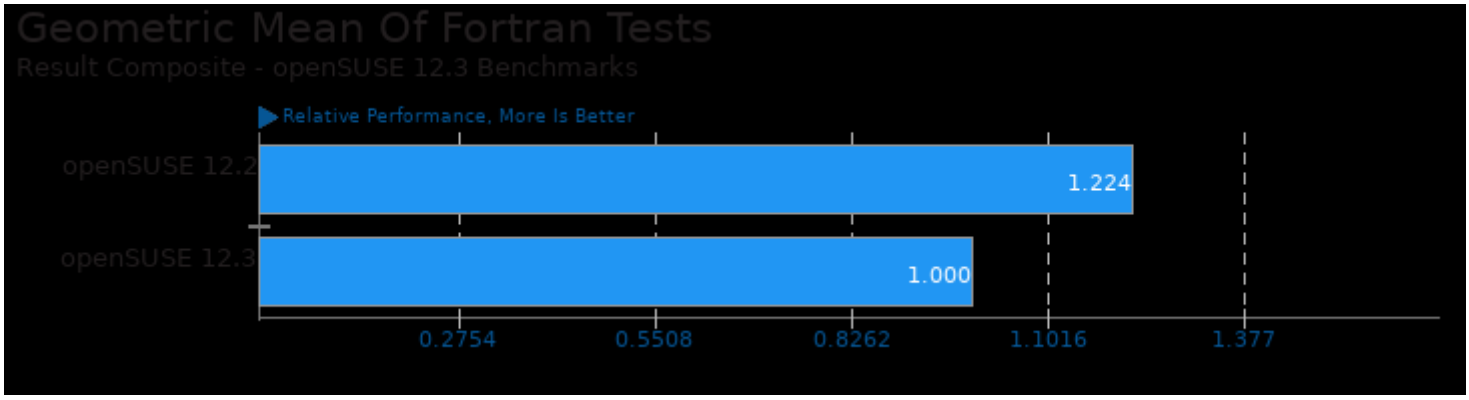
Geometric mean based upon tests: pts/xonotic and pts/openarena



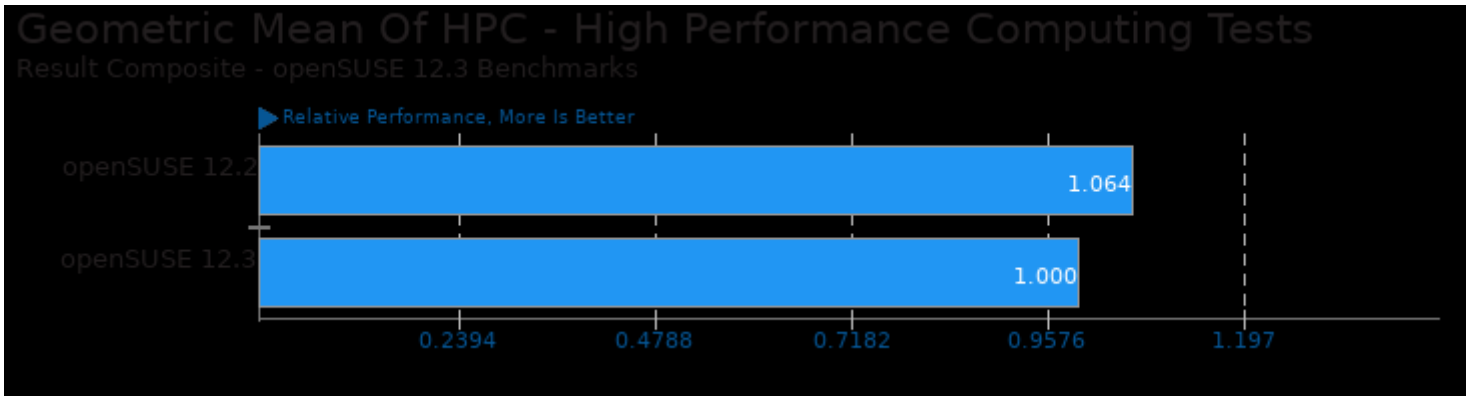
Geometric mean based upon tests: pts/dbench and pts/postmark



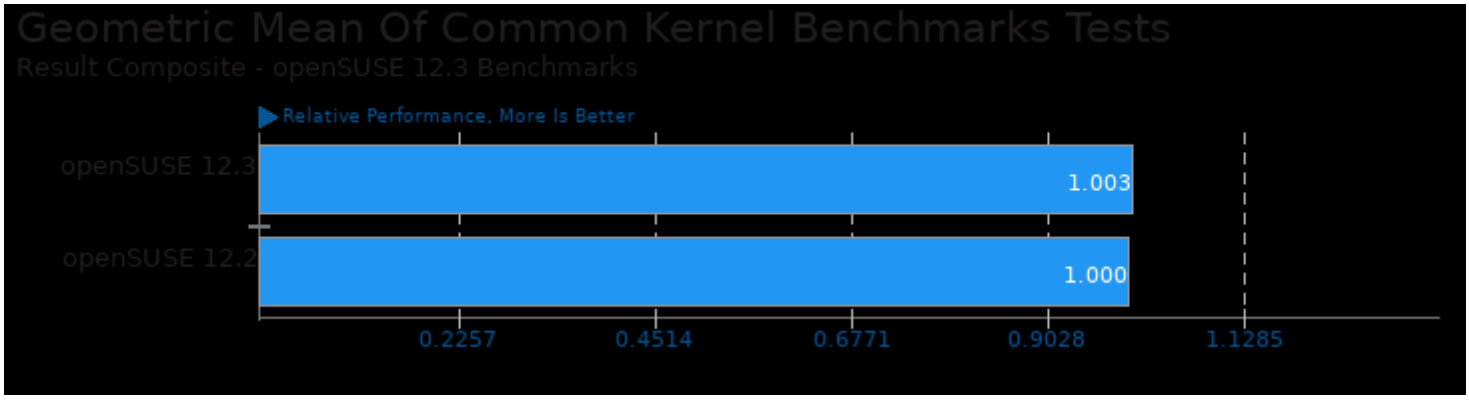
Geometric mean based upon tests: pts/encode-mp3, pts/x264 and pts/ffmpeg



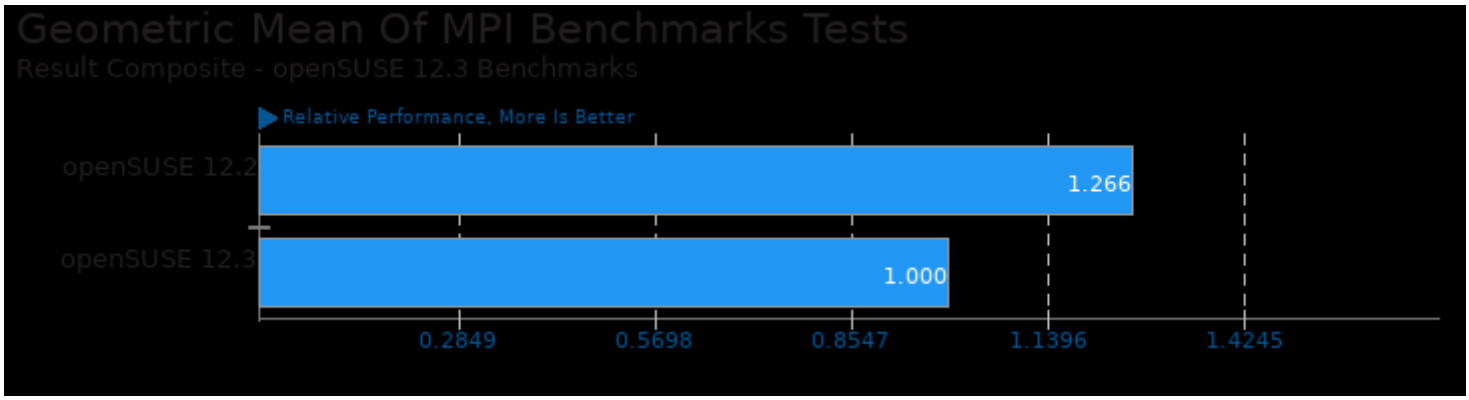
Geometric mean based upon tests: pts/npb, pts/ffte and pts/nero2d



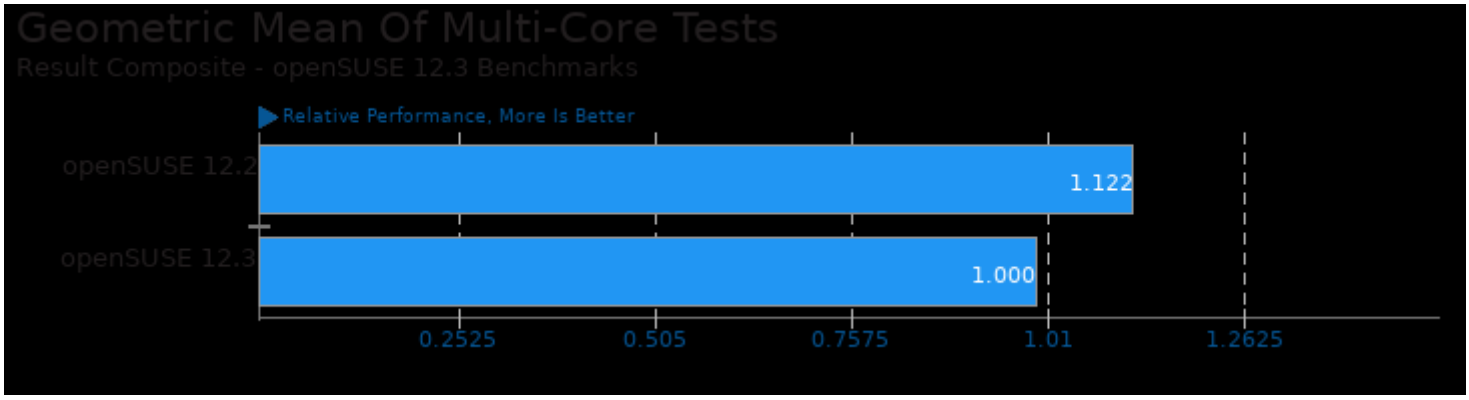
Geometric mean based upon tests: pts/npb, pts/ffte, pts/himeno and pts/mafft



Geometric mean based upon tests: pts/postmark, pts/pgbench and pts/openssl



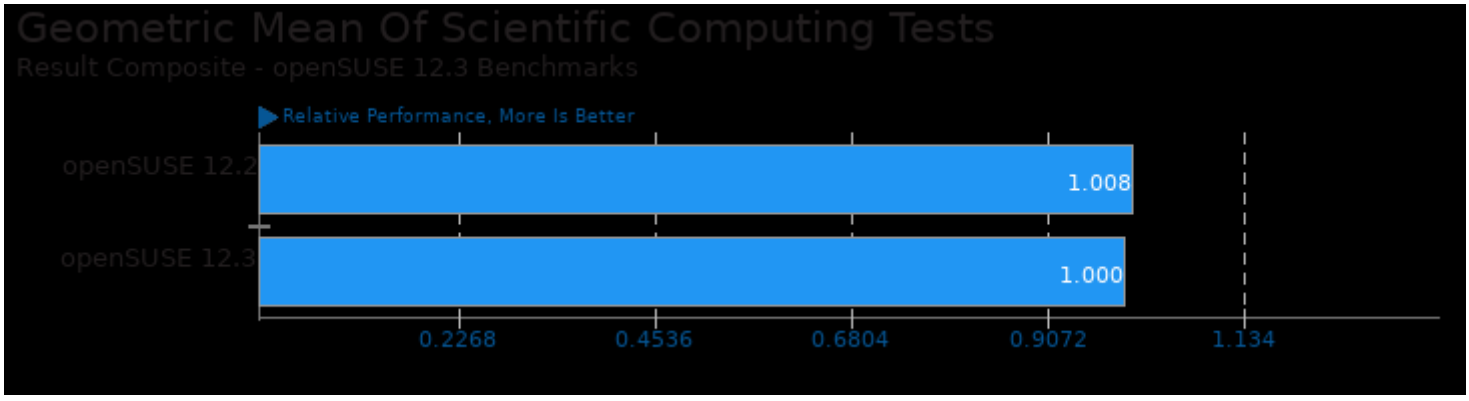
Geometric mean based upon tests: pts/nero2d and pts/npb



Geometric mean based upon tests: pts/c-ray, pts/x264, pts/ffmpeg, pts/npb, pts/smallpt, pts/nero2d, pts/compress-pbzip2, pts/build-linux-kernel, pts/ttsiod-renderer and pts/pgbench



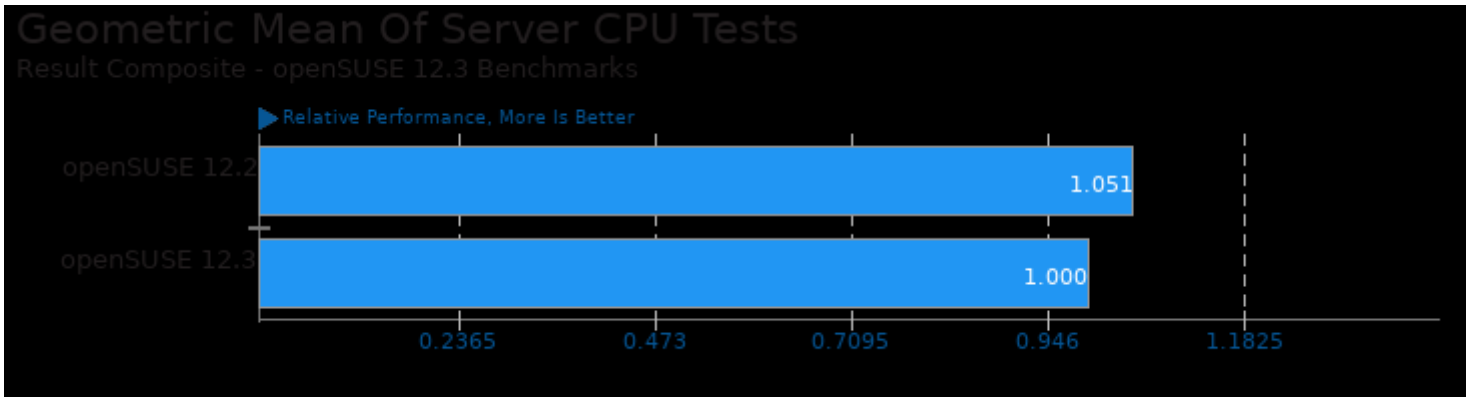
Geometric mean based upon tests: pts/c-ray, pts/smallpt and pts/ttsiod-renderer



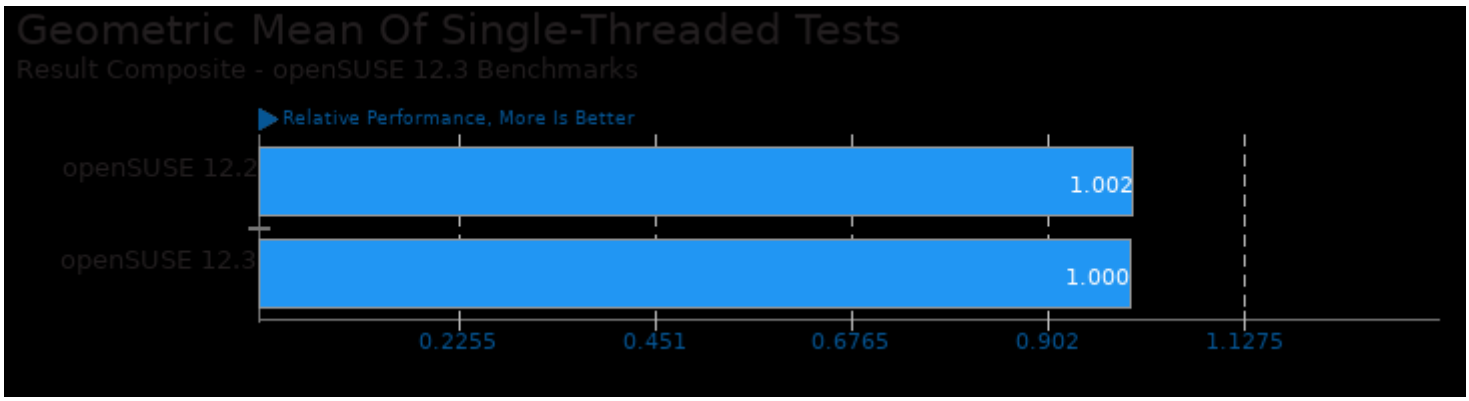
Geometric mean based upon tests: pts/ffte, pts/himeno and pts/mafft



Geometric mean based upon tests: pts/pgbench and pts/openssl



Geometric mean based upon tests: pts/npb, pts/x264, pts/himeno, pts/build-linux-kernel, pts/c-ray and pts/openssl



Geometric mean based upon tests: pts/blake2 and pts/encode-mp3

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:16.