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mint-vmware, virtualbox-mint

Linux Mint 2CPU 2GB VMWare

virtualbox-mint: Linux-tests

Automated Executive Summary

mint-vmware1 had the most wins, coming in first place for 90% of the tests.

Based on the geometric mean of all complete results, the fastest (mint-vmware1) was 1.208x the speed of the slowest (virtualbox-mint1).

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

SQLite (12,500 INSERTs) at 2.912x
Dbench (12 Clients) at 2.227x
Apache Benchmark (Static Web Page Serving) at 2.2x
GnuPG (1GB File Encryption) at 1.477x
Minion (Solitaire) at 1.034x
FFmpeg (AVI To NTSC VCD) at 1.029x
Sudokut (Total Time) at 1.028x
Timed HMMer Search (Pfam Database Search) at 1.023x

POV-Ray (Total Time) at 1.023x
C-Ray (Total Time) at 1.019x.

Test Systems:

mint-vmware1

Processor: Intel Core i7 920 @ 2.67GHz (2 Cores), Motherboard: Intel 440BX, Chipset: Intel 440BX/ZX/DX, Memory: 1 x 2048 MB, Disk: 11GB VMware Virtual S, Graphics: VMware SVGA II

OS: LinuxMint 11, Kernel: 2.6.38-8-generic (x86_64), Desktop: GNOME 2.32.1, Display Server: X Server 1.10.1, Display Driver: vmware 11.0.3, OpenGL: 2.1 Mesa 7.10.2, Compiler: GCC 4.5.2, File-System: ext4, Screen Resolution: 1024x768

System Notes: Disk Scheduler: CFQ. Python 2.7.1+. This was using VMware virtualization.

virtualbox-mint1

Processor: Intel Core i7 920 @ 2.73GHz (2 Cores), Motherboard: innotek VirtualBox v1.2, Chipset: Intel 440FX - 82441FX PMC, Memory: 2048MB, Disk: 11GB VBOX HDD, Graphics: Chromium, Monitor: VBOX monitor

OS: LinuxMint 11, Kernel: 2.6.38-8-generic (x86_64), Desktop: GNOME 2.32.1, Display Server: X Server 1.10.1, Display Driver: vboxvideo 1.0.1, OpenGL: 2.1, Compiler: GCC 4.5.2, File-System: ext4, Screen Resolution: 1280x960

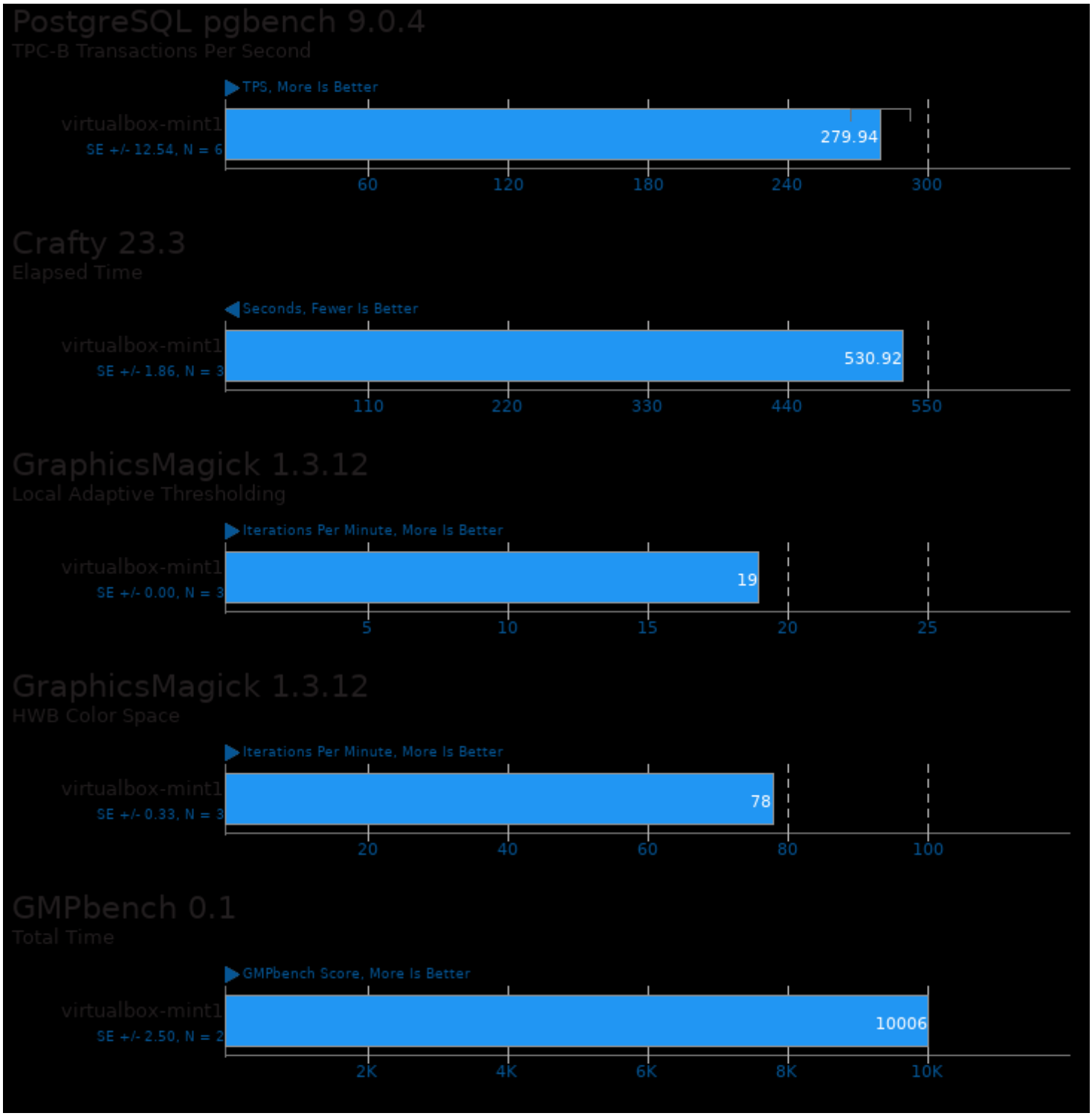
System Notes: Disk Scheduler: CFQ. Python 2.7.1+. Compiz was running on this system. This was using VirtualBox virtualization.

	mint-vmware1	virtualbox-mint1
PostgreSQL pgbench - T.B.T.P.S (TPS)		279.94
Standard Deviation		11%
Crafty - Elapsed Time (sec)		530.92
Standard Deviation		0.6%
GraphicsMagick - L.A.T (Iterations/min)		19
Standard Deviation		0%
GraphicsMagick - HWB Color Space (Iterations/min)		78
Standard Deviation		0.7%
GMPbench - Total Time (GMPbench Score)		10006
Standard Deviation		0%
SQLite - 12,500 INSERTs (sec)	**87.36**	**254.40**
Normalized	100%	34.34%
Standard Deviation	1.5%	4.6%
PyBench - T.F.A.T.T (Milliseconds)	**3292**	**3337**
Normalized	100%	98.65%
Standard Deviation	0.5%	0.6%

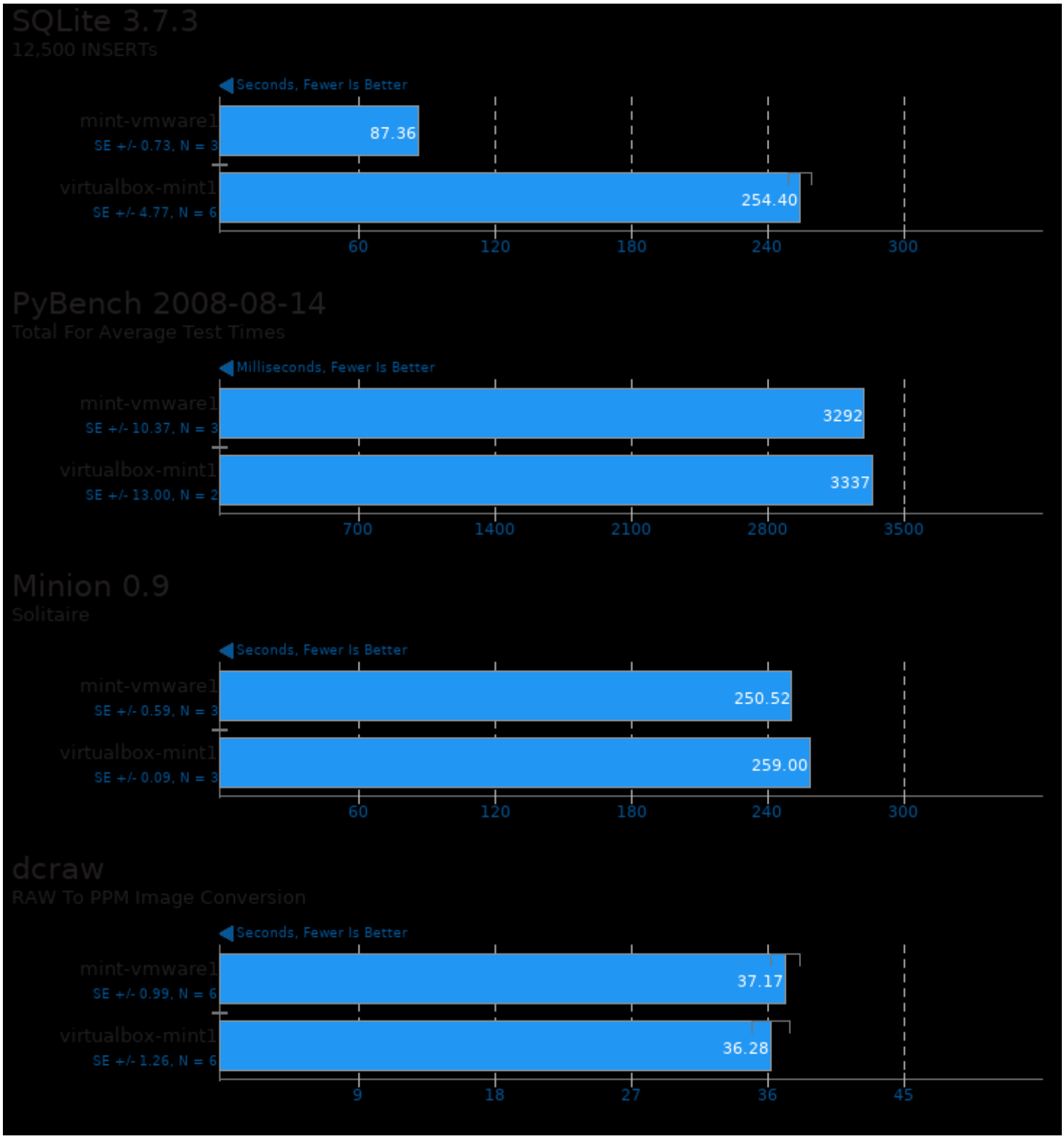
mint-vmware, virtualbox-mint

Minion - Solitaire (sec)	**250.52**	**259.00**
Normalized	100%	96.73%
Standard Deviation	0.4%	0.1%
dcraw - R.T.P.I.C (sec)	**37.17**	**36.28**
Normalized	97.61%	100%
Standard Deviation	6.5%	8.5%
Sudokut - Total Time (sec)	**36.35**	**37.36**
Normalized	100%	97.3%
Standard Deviation	0.4%	0.7%
OpenSSL - R.4.b.P (Signs/sec)	**37.08**	**36.73**
Normalized	100%	99.06%
Standard Deviation	0.9%	0.5%
Dbench - 12 Clients (MB/s)	**191.38**	**85.95**
Normalized	100%	44.91%
Standard Deviation	2.6%	1.2%
PostMark - D.T.P (TPS)	**512**	**318**
Normalized	100%	62.11%
Standard Deviation	2.2%	7.9%
Threaded I/O Tester - 64MB Read - 32 Threads (MB/s)	**118.83**	**70.01**
Normalized	100%	58.92%
Standard Deviation	20%	24.3%
Threaded I/O Tester - 64MB Write - 32 Threads (MB/s)	**155.64**	**96.14**
Normalized	100%	61.77%
Standard Deviation	20%	15.9%
Timed HMMer Search - P.D.S (sec)	**48.65**	**49.78**
Normalized	100%	97.73%
Standard Deviation	2.7%	3.5%
Timed MAFFT Alignment - M.S.A (sec)	**35.14**	**35.53**
Normalized	100%	98.9%
Standard Deviation	1%	0.5%
POV-Ray - Total Time (sec)	**1126**	**1152**
Normalized	100%	97.74%
C-Ray - Total Time (sec)	**178.95**	**182.40**
Normalized	100%	98.11%
Standard Deviation	0.3%	0.5%
GnuPG - 1.F.E (sec)	**22.62**	**15.31**
Normalized	67.68%	100%
Standard Deviation	1.9%	3.3%
FFmpeg - AVI To NTSC VCD (sec)	**19.32**	**19.88**
Normalized	100%	97.18%
Standard Deviation	1.8%	3%
Ogg Encoding - WAV To Ogg (sec)	**16.26**	**16.52**
Normalized	100%	98.43%
Standard Deviation	0.8%	0.6%
LAME MP3 Encoding - WAV To MP3 (sec)	**34.80**	**35.36**
Normalized	100%	98.42%
Standard Deviation	0.6%	1.1%
Apache Benchmark - S.W.P.S (Reqs/sec)	**9403**	**4275**
Normalized	100%	45.46%
Standard Deviation	1.4%	1%
Parallel BZIP2 Compression - 2.F.C (sec)	**33.45**	**33.87**
Normalized	100%	98.76%
Standard Deviation	0.5%	0.5%
LZMA Compression - 2.F.C (sec)	**224.85**	**226.48**
Normalized	100%	99.28%

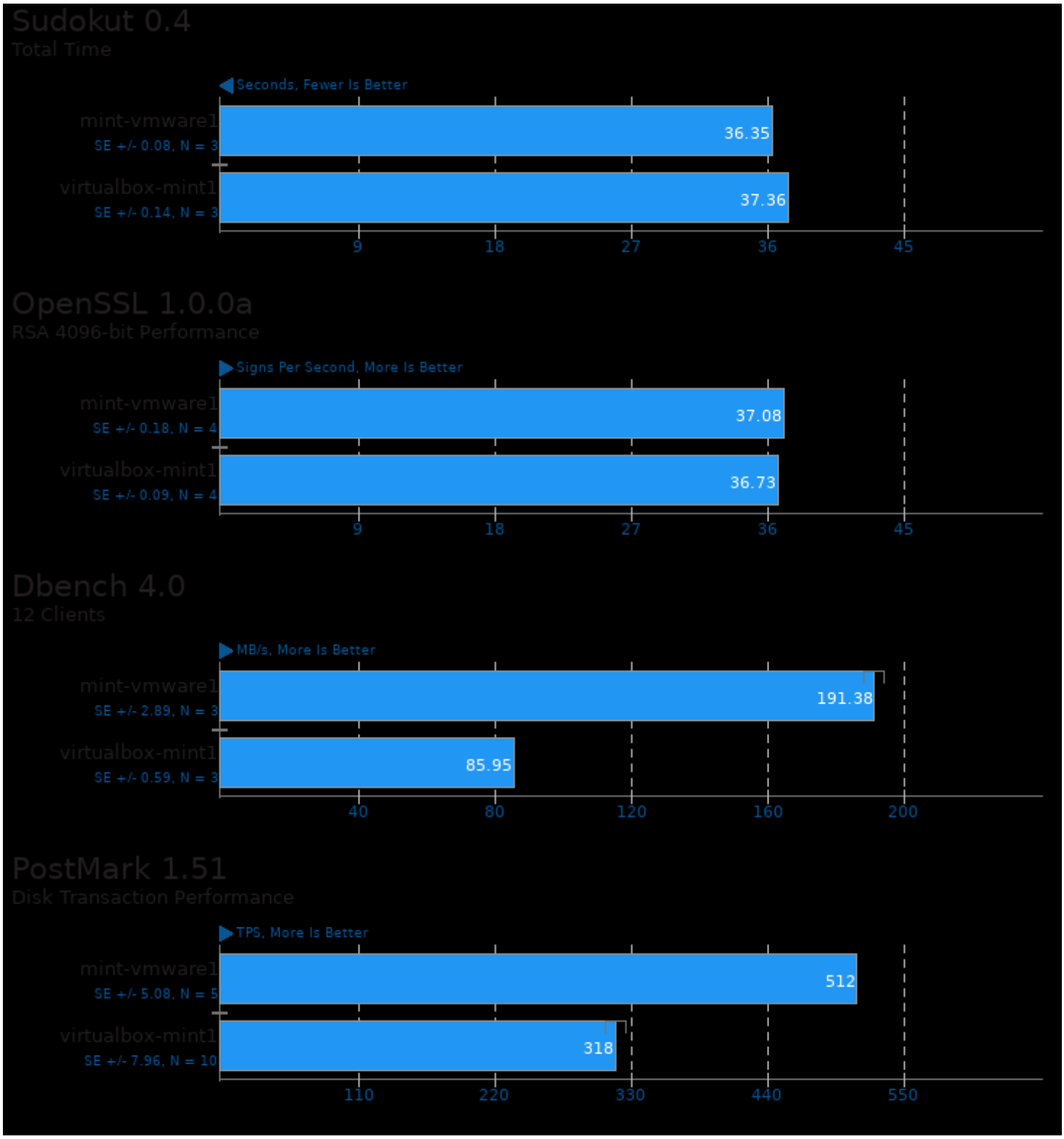
Standard Deviation	0.3%	0.5%

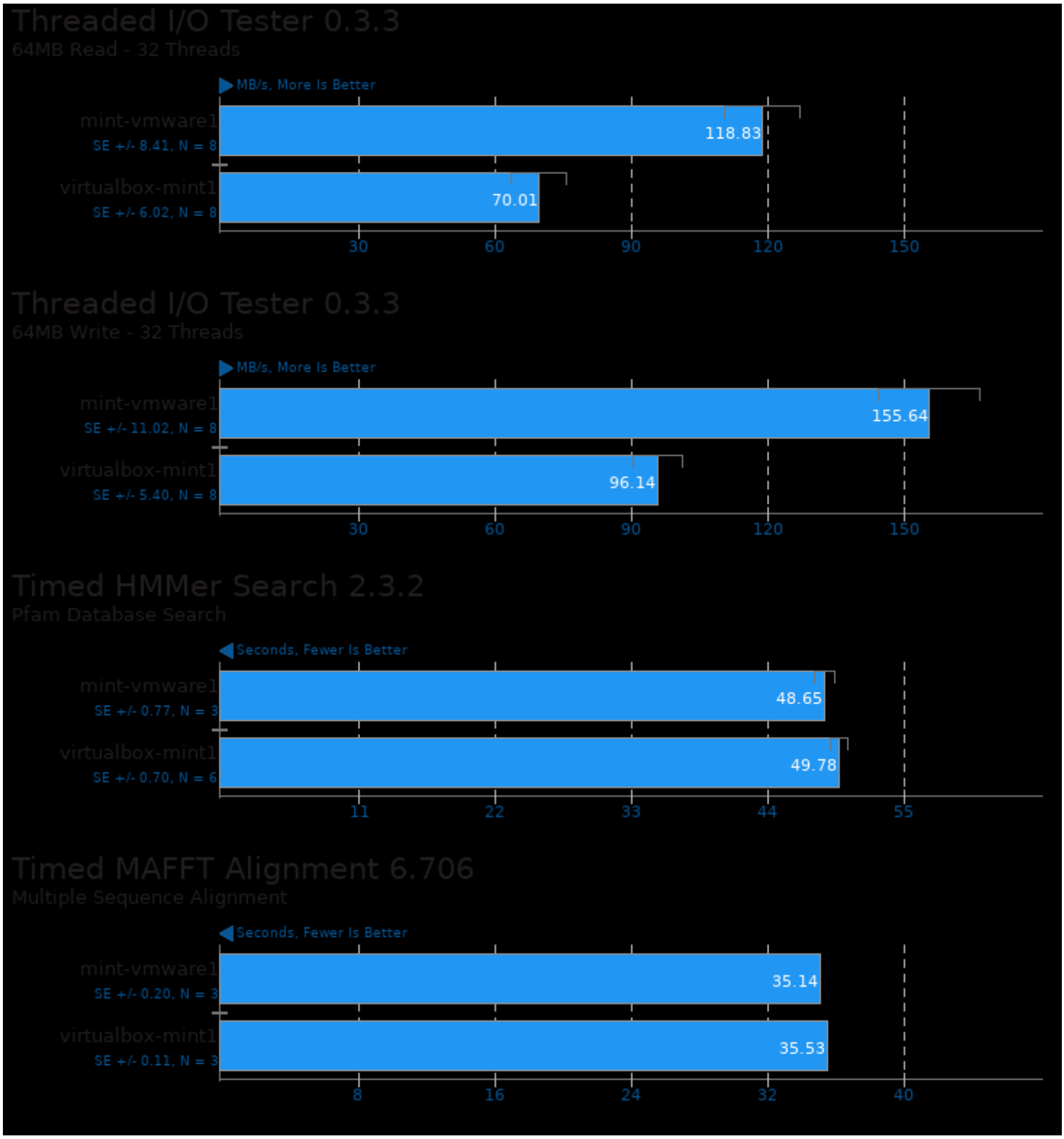

PostgreSQL pgbench 9.0.4
TPC-B Transactions Per Second
TPS, More Is Better
virtualbox-mint1
SE +/- 12.54, N = 6
279.94
60
120
180
240
300
Crafty 23.3
Elapsed Time
Seconds, Fewer Is Better
virtualbox-mint1
SE +/- 1.86, N = 3
530.92
110
220
330
440
550
GraphicsMagick 1.3.12
Local Adaptive Thresholding
Iterations Per Minute, More Is Better
virtualbox-mint1
SE +/- 0.00, N = 3
19
5
10
15
20
25
GraphicsMagick 1.3.12
HWB Color Space
Iterations Per Minute, More Is Better
virtualbox-mint1
SE +/- 0.33, N = 3
78
20
40
60
80
100
GMPbench 0.1
Total Time
GMPbench Score, More Is Better
virtualbox-mint1
SE +/- 2.50, N = 2
10006
2K
4K
6K
8K
10K

mint-vmware, virtualbox-mint

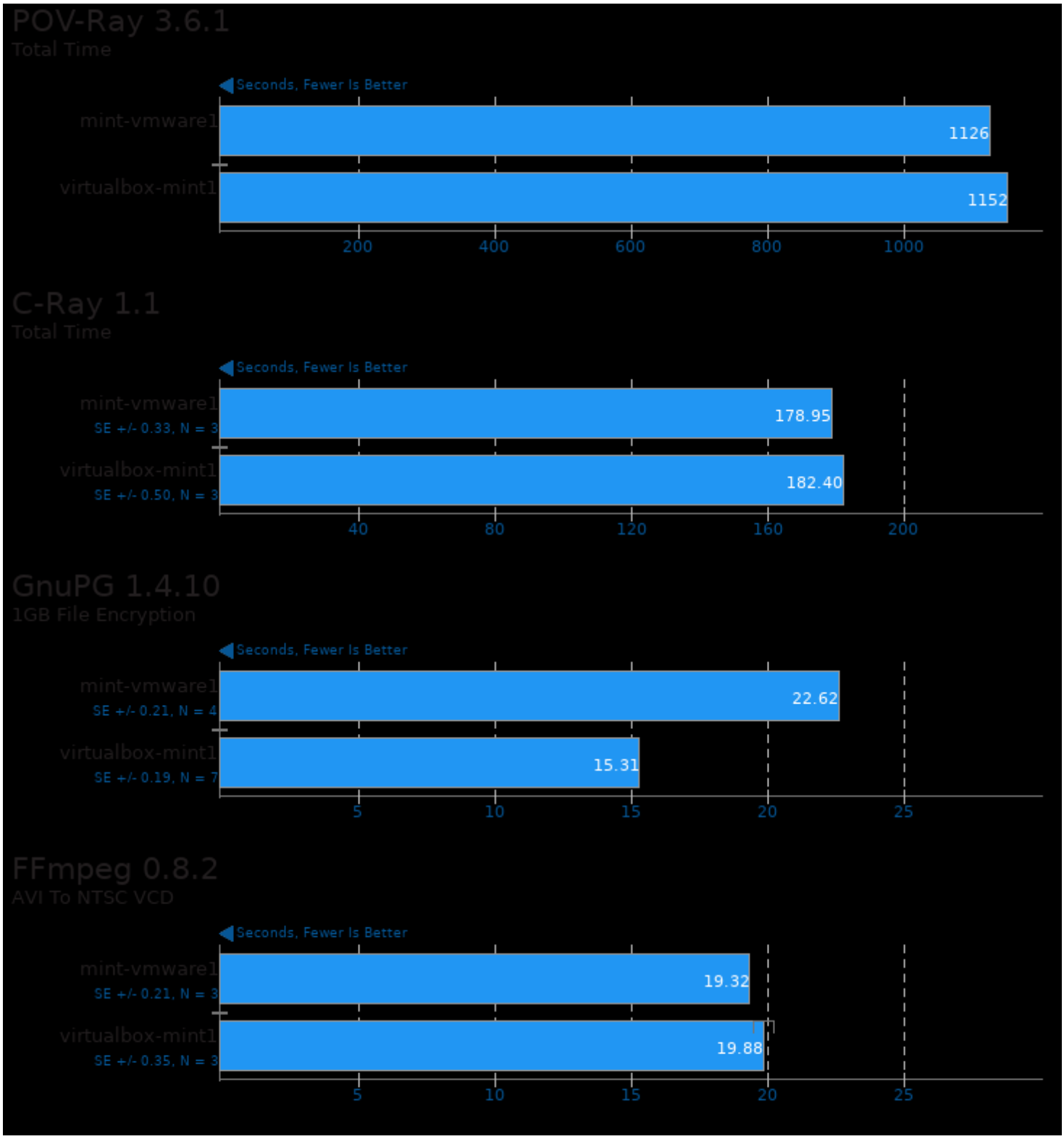


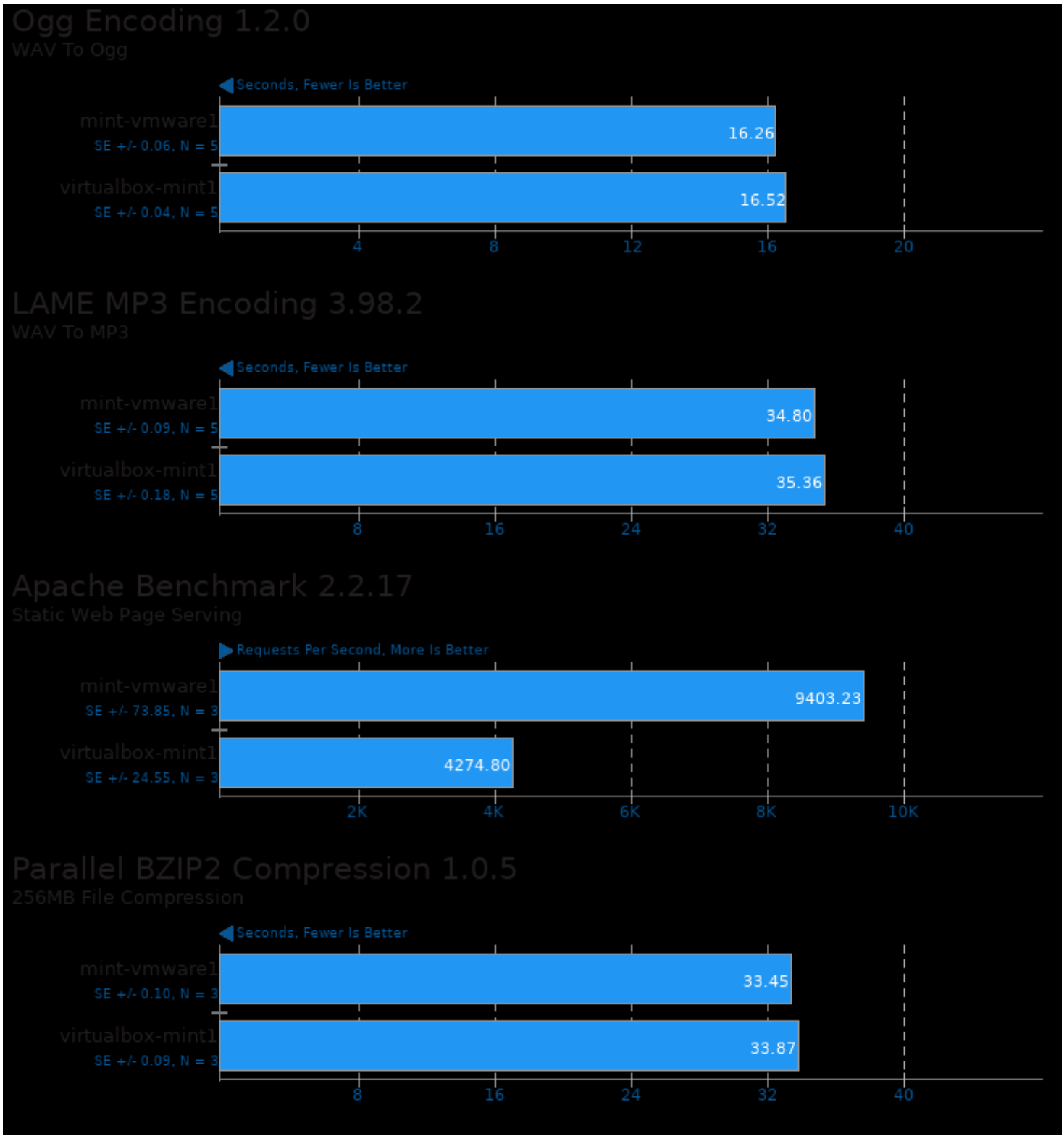
mint-vmware, virtualbox-mint



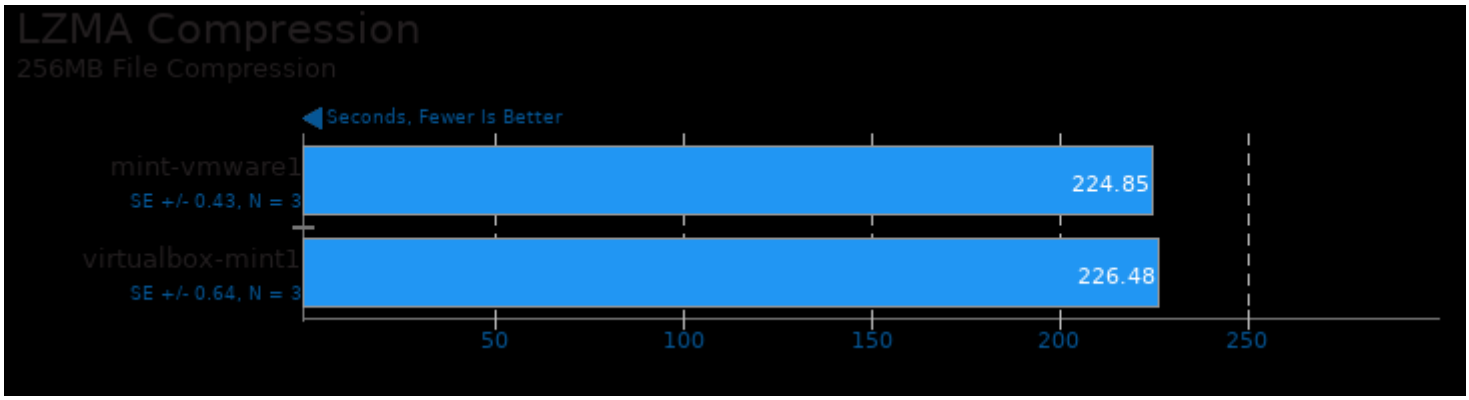

Threaded I/O Tester 0.3.3
64MB Read - 32 Threads
MB/s, More Is Better
mint-vmware1
SE +/- 8.41, N = 8
118.83
virtualbox-mint1
SE +/- 6.02, N = 8
70.01
30
60
90
120
150
Threaded I/O Tester 0.3.3
64MB Write - 32 Threads
MB/s, More Is Better
mint-vmware1
SE +/- 11.02, N = 8
155.64
virtualbox-mint1
SE +/- 5.40, N = 8
96.14
30
60
90
120
150
Timed HMMer Search 2.3.2
Pfam Database Search
Seconds, Fewer Is Better
mint-vmware1
SE +/- 0.77, N = 3
48.65
virtualbox-mint1
SE +/- 0.70, N = 6
49.78
11
22
33
44
55
Timed MAFFT Alignment 6.706
Multiple Sequence Alignment
Seconds, Fewer Is Better
mint-vmware1
SE +/- 0.20, N = 3
35.14
virtualbox-mint1
SE +/- 0.11, N = 3
35.53
8
16
24
32
40

mint-vmware, virtualbox-mint

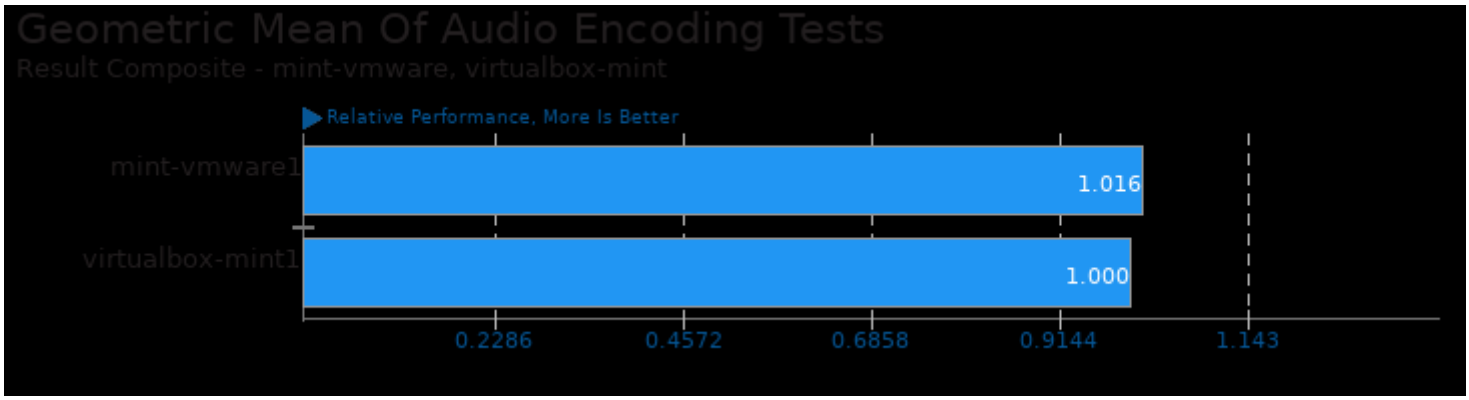



Ogg Encoding 1.2.0
WAV To Ogg
Seconds, Fewer Is Better
mint-vmware1
SE +/- 0.06, N = 5
16.26
virtualbox-mint1
SE +/- 0.04, N = 5
16.52
4
8
12
16
20
LAME MP3 Encoding 3.98.2
WAV To MP3
Seconds, Fewer Is Better
mint-vmware1
SE +/- 0.09, N = 5
34.80
virtualbox-mint1
SE +/- 0.18, N = 5
35.36
8
16
24
32
40
Apache Benchmark 2.2.17
Static Web Page Serving
Requests Per Second, More Is Better
mint-vmware1
SE +/- 73.85, N = 3
9403.23
virtualbox-mint1
SE +/- 24.55, N = 3
4274.80
2K
4K
6K
8K
10K
Parallel BZIP2 Compression 1.0.5
256MB File Compression
Seconds, Fewer Is Better
mint-vmware1
SE +/- 0.10, N = 3
33.45
virtualbox-mint1
SE +/- 0.09, N = 3
33.87
8
16
24
32
40

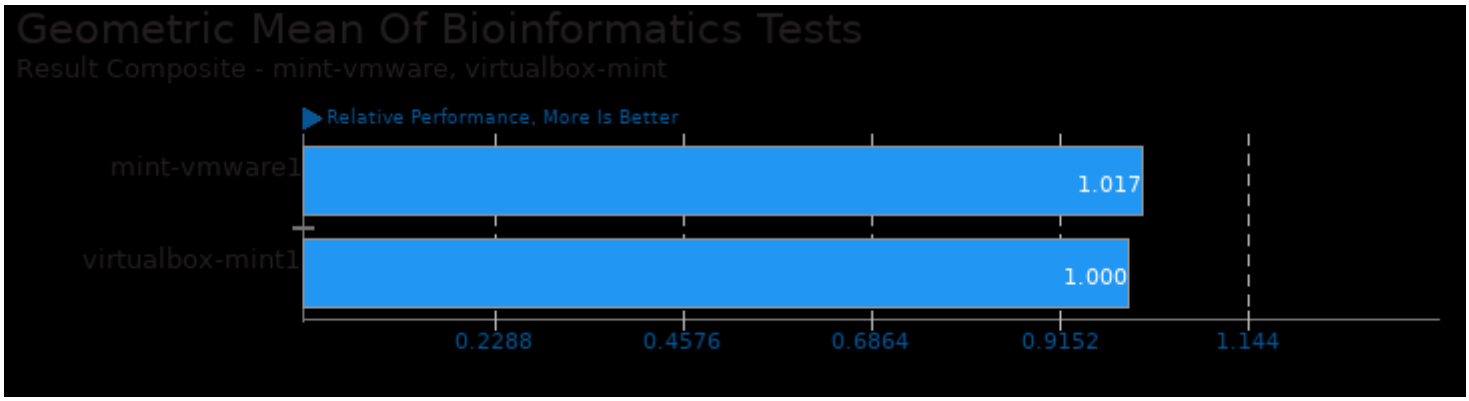
mint-vmware, virtualbox-mint



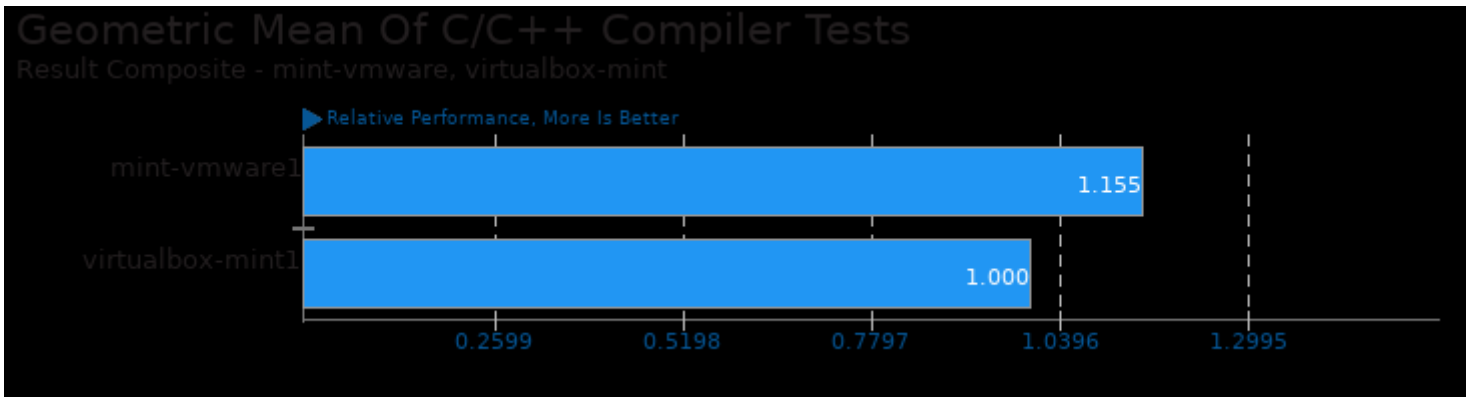
These geometric means are based upon test groupings / test suites for this result file.



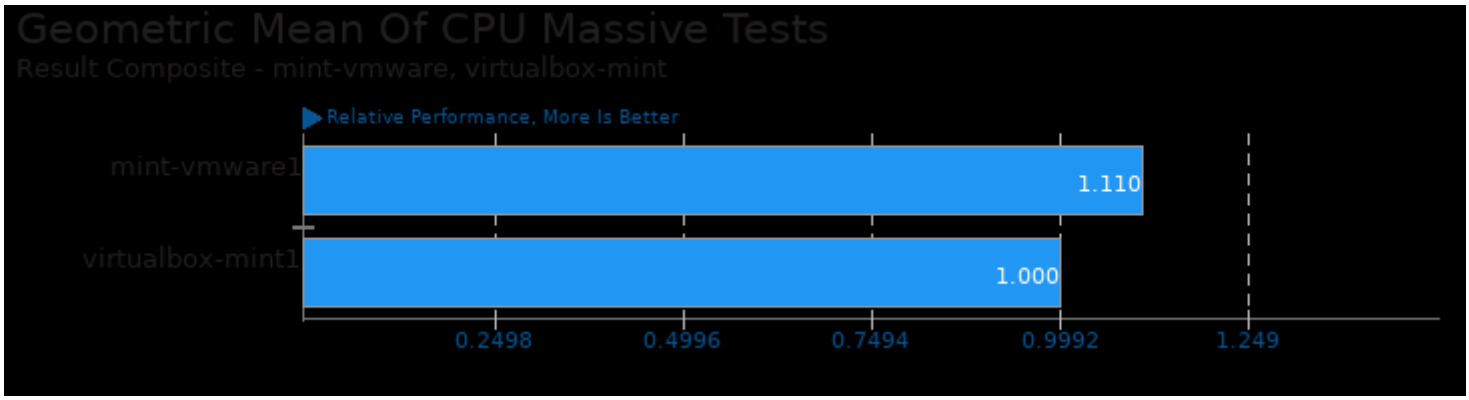
Geometric mean based upon tests: pts/encode-mp3 and pts/encode-ogg



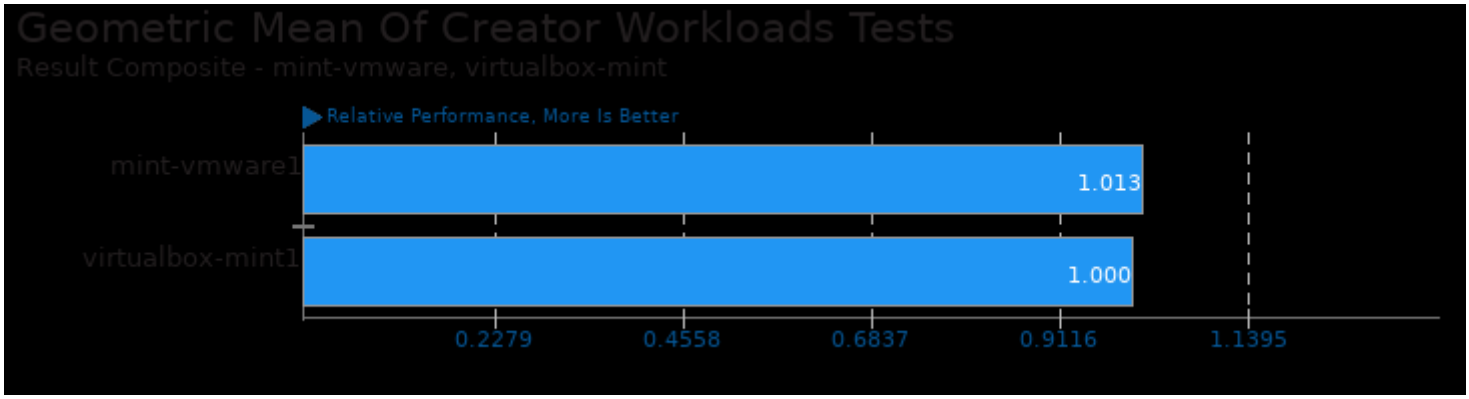
Geometric mean based upon tests: pts/hmmer and pts/mafft



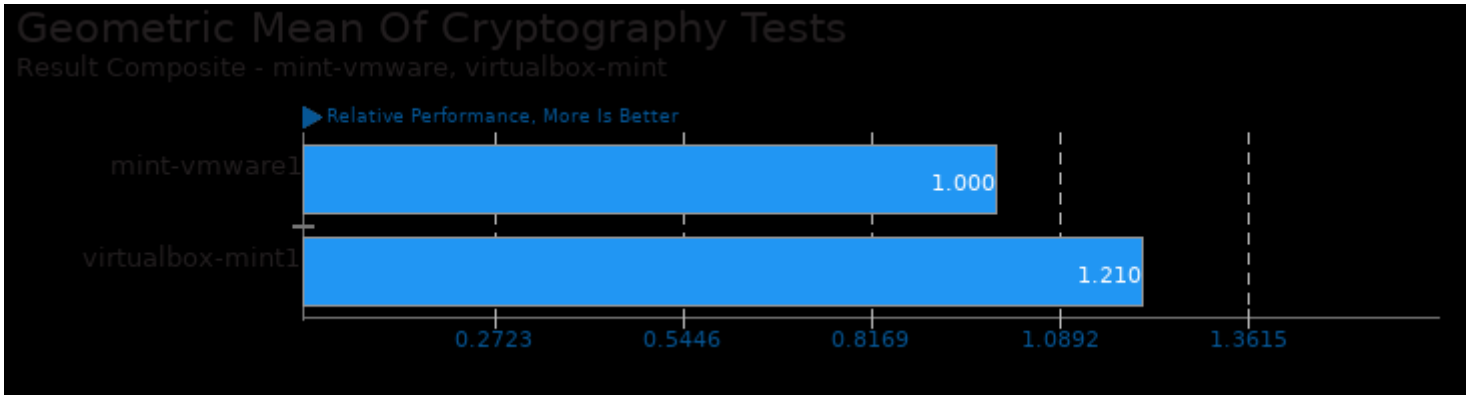
Geometric mean based upon tests: pts/mafft, pts/graphics-magick, pts/hmmer, pts/c-ray, pts/encode-mp3, pts/pgbench, pts/apache and pts/openssl



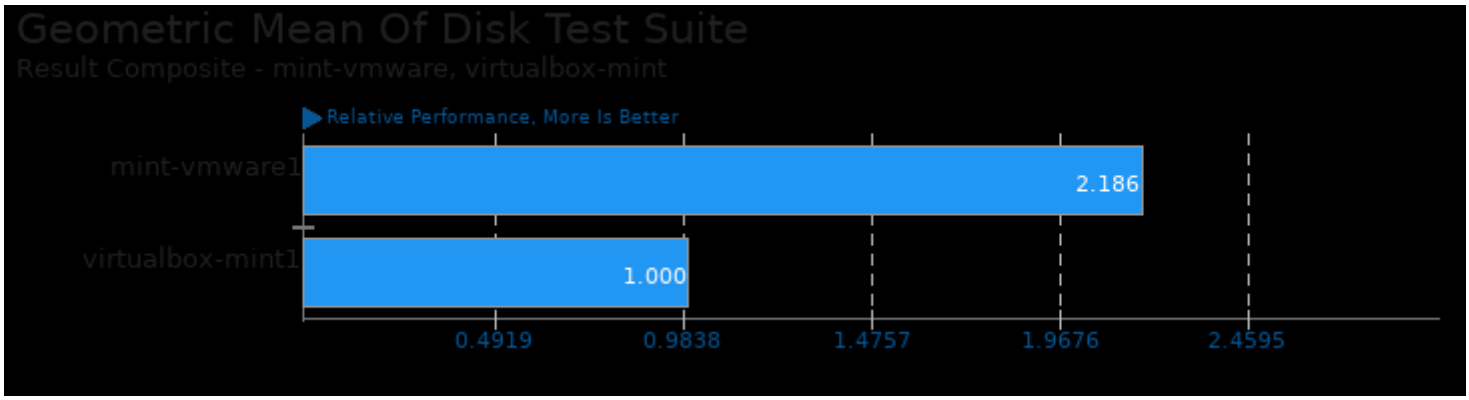
Geometric mean based upon tests: pts/apache, pts/c-ray, pts/compress-pbzip2, pts/crafty, pts/encode-mp3, pts/graphics-magick, pts/hmmer, pts/openssl, pts/mafft, pts/minion, pts/pgbench and pts/povray



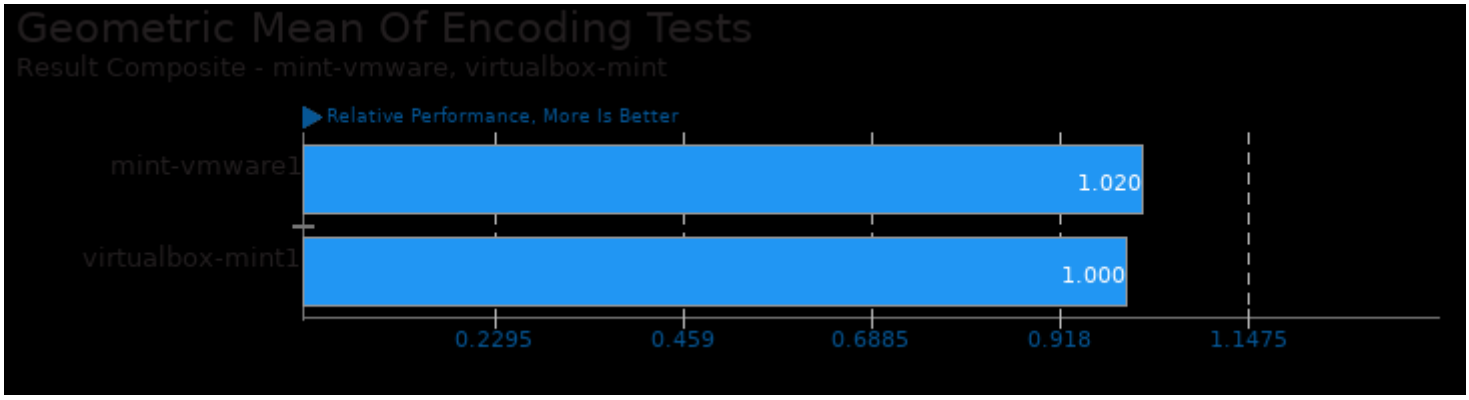
Geometric mean based upon tests: pts/c-ray, pts/povray, pts/ffmpeg, pts/encode-mp3, pts/encode-ogg, pts/graphics-magick and pts/dcraw



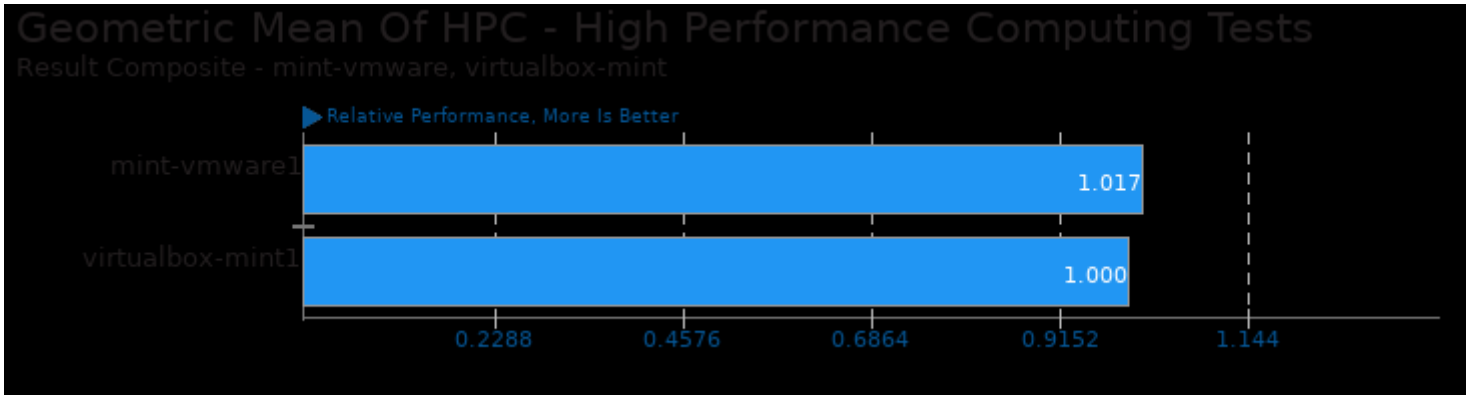
Geometric mean based upon tests: pts/gnupg and pts/openssl



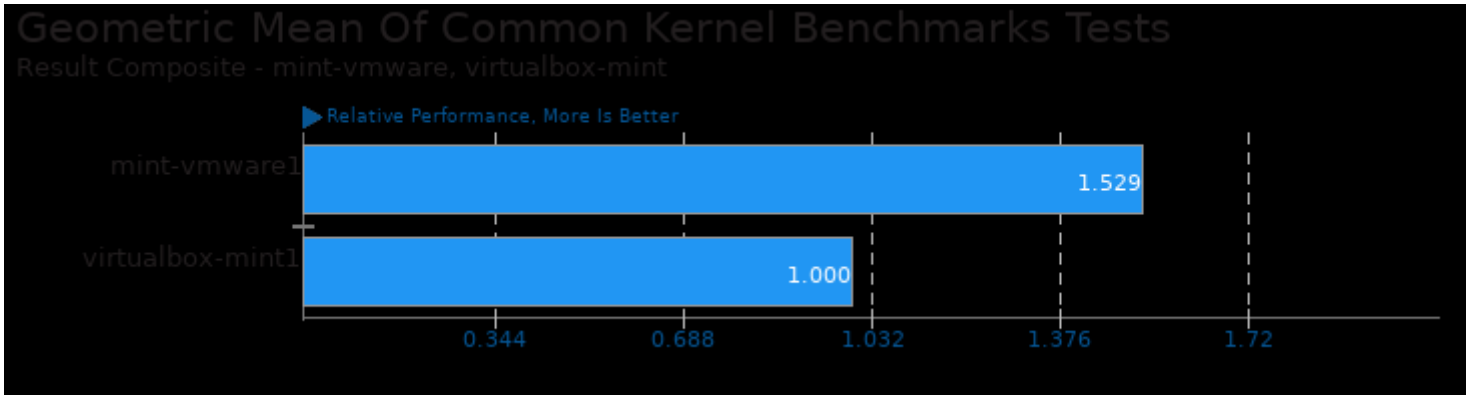
Geometric mean based upon tests: pts/sqlite, pts/dbench and pts/postmark



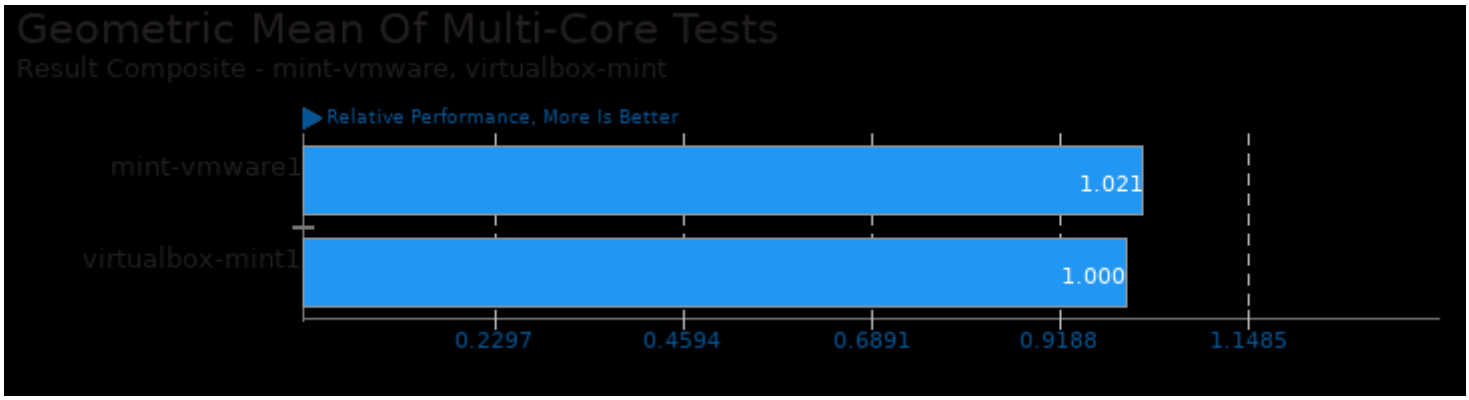
Geometric mean based upon tests: pts/encode-mp3, pts/encode-ogg and pts/ffmpeg



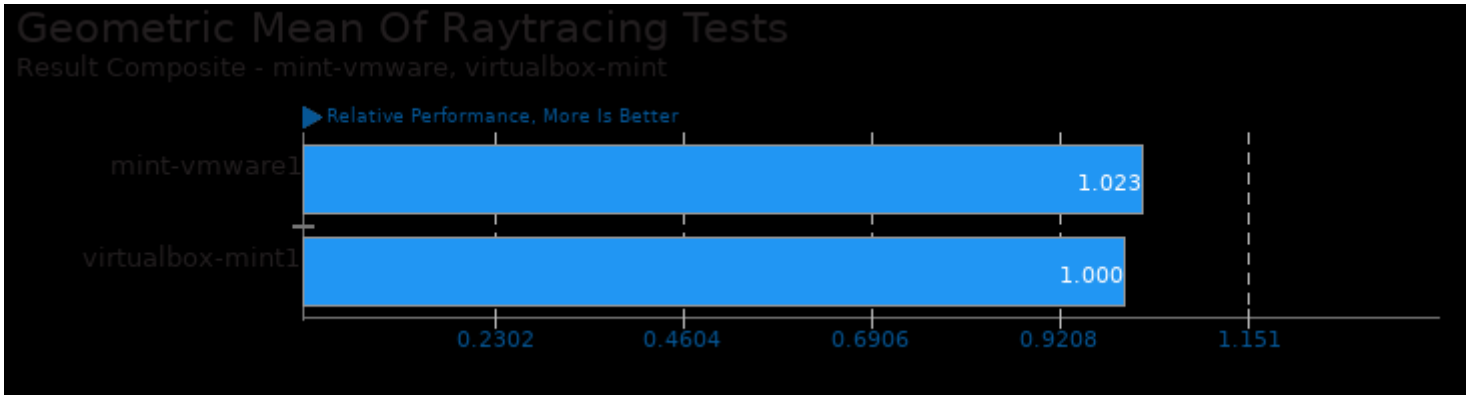
Geometric mean based upon tests: pts/hmmer and pts/mafft



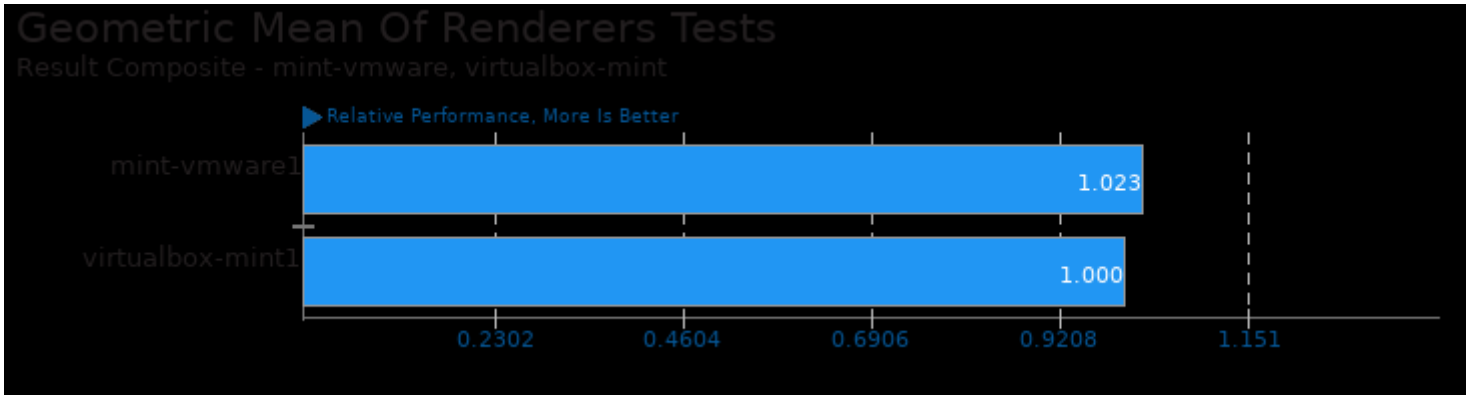
Geometric mean based upon tests: pts/apache, pts/postmark, pts/pgbench and pts/openssl



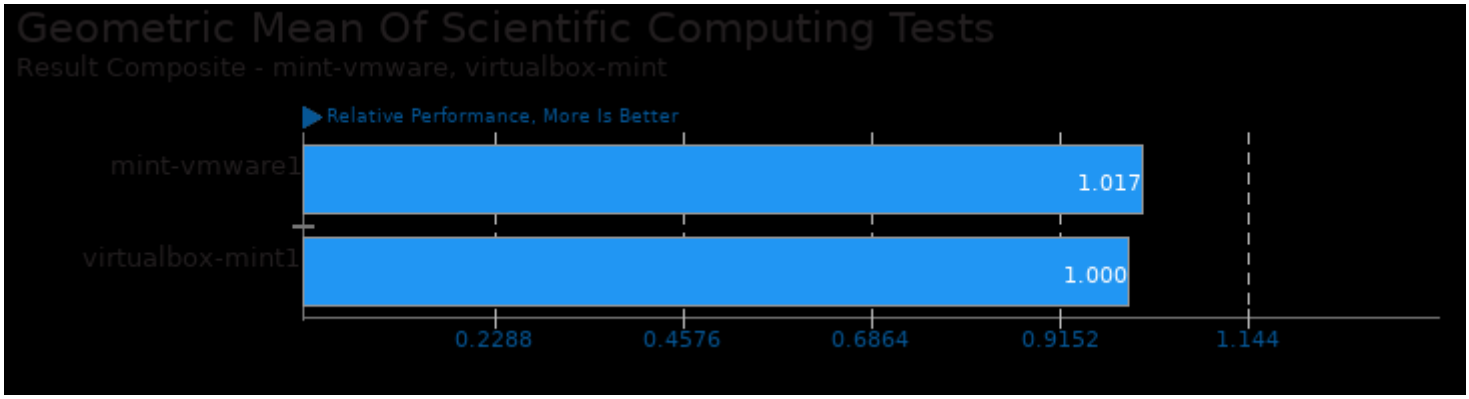
Geometric mean based upon tests: pts/c-ray, pts/povray, pts/ffmpeg, pts/graphics-magick, pts/compress-pbzip2 and pts/pgbench



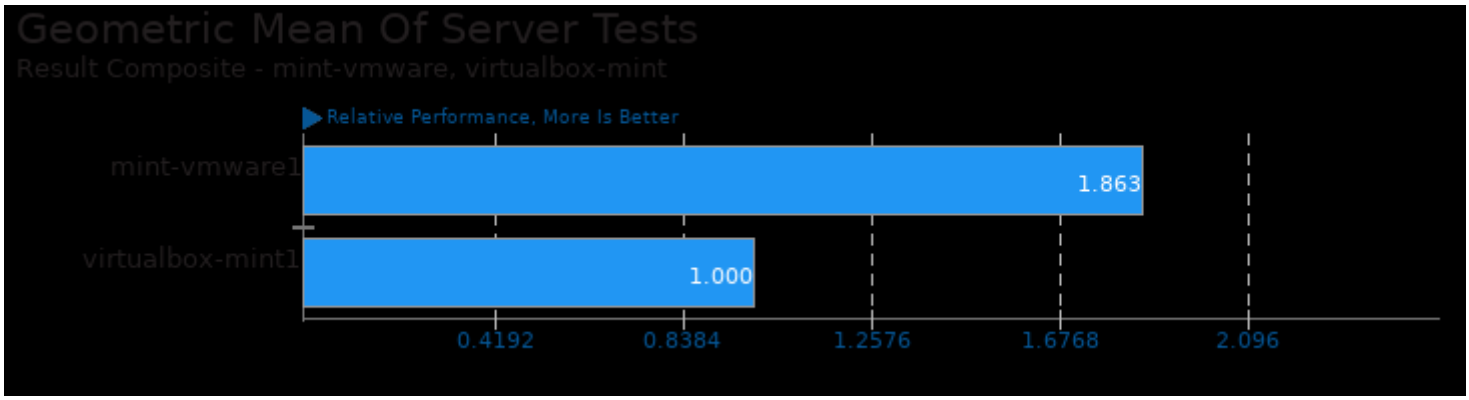
Geometric mean based upon tests: pts/c-ray and pts/povray



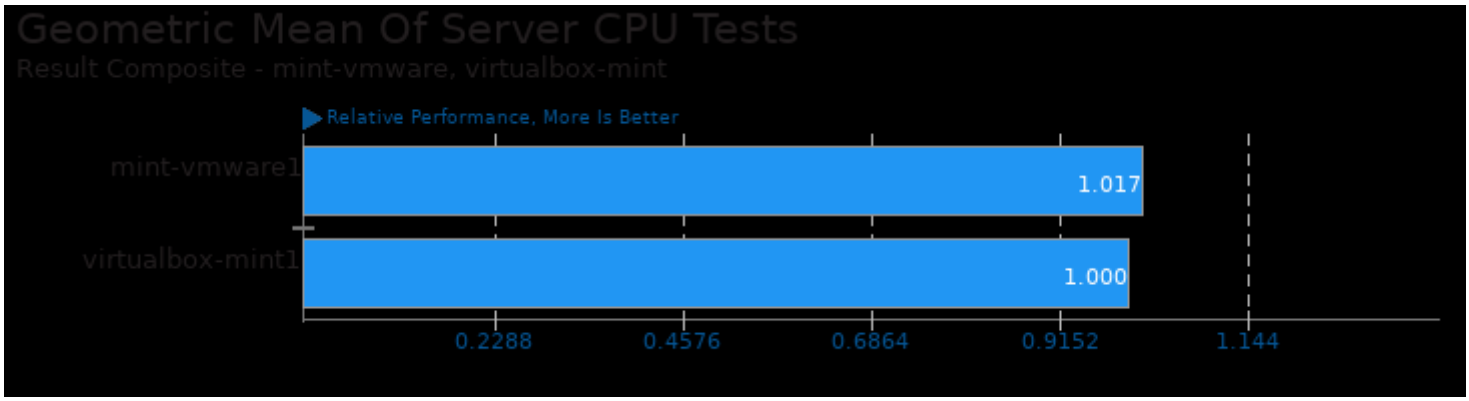
Geometric mean based upon tests: pts/c-ray and pts/povray



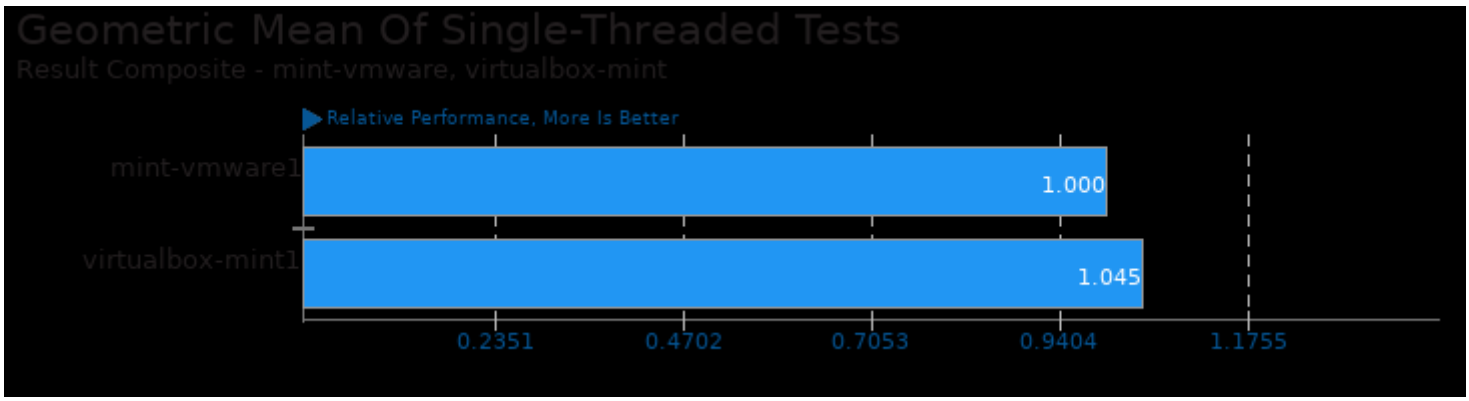
Geometric mean based upon tests: pts/hmmer and pts/mafft



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



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



Geometric mean based upon tests: pts/gmpbench, pts/dcraw, pts/encode-mp3, pts/encode-ogg, pts/gnupg, pts/minion, pts/sudokut and pts/pybench

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