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20110514_dual_core_e7400

Running pts/compress-lzma-1.2.0, pts/compress-pbzip2-1.3.0, pts/apache-1.3.0, pts/encode-mp3-1.3.1, pts/encode-ogg-1.2.0, pts/ffmpeg-1.5.0, pts/gnupg-1.3.1, pts/gmpbench-1.0.1, pts/c-ray-1.0.0, pts/tachyon-1.0.0, pts/povray-1.0.0, pts/mafft-1.2.0, pts/hmmer-1.1.0, pts/tiobench-1.1.0, pts/postmark-1.0.0, pts/dbench-1.0.0, pts/graphics-magick-1.4.1, pts/openssl-1.5.0, pts/sunflow-1.1.0, pts/sudokut-1.0.0, pts/dcraw-1.0.0, pts/minion-1.2.0, pts/pybench-1.0.0, pts/sqlite-1.8.0.

Automated Executive Summary

ubuntu1104 had the most wins, coming in first place for 47% of the tests.

Based on the geometric mean of all complete results, the fastest (ubuntu1104) was 1.374x the speed of the slowest (wheezy). archlinux was 0.829x the speed of ubuntu1104 and wheezy was 0.878x the speed of archlinux.

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

OpenSSL (RSA 4096-bit Performance) at 2.319x
C-Ray (Total Time) at 2.274x
Ogg Encoding (WAV To Ogg) at 1.57x
GnuPG (1GB File Encryption) at 1.551x
Sudokut (Total Time) at 1.537x
GraphicsMagick (HWB Color Space) at 1.353x

Timed MAFFT Alignment (Multiple Sequence Alignment) at 1.35x
Timed HMMer Search (Pfam Database Search) at 1.247x
PyBench (Total For Average Test Times) at 1.225x
POV-Ray (Total Time) at 1.205x.

Test Systems:

wheezy

Processor: Intel Core 2 Duo E7400 @ 2.80GHz (2 Cores), Motherboard: ASUS P5N73-CM, Chipset: NVIDIA nForce 630i, Memory: 4096MB, Disk: 500GB Western Digital WDC WD5000AAVS-0, Graphics: NVIDIA GeForce 9600 GT 512MB (650/900MHz), Audio: VIA VT1708B 8-Ch

OS: Debian testing, Kernel: 2.6.38-2-686-bigmem (i686), Desktop: GNOME 2.30.2, Display Server: X Server 1.9.5, Display Driver: NVIDIA 270.41.06, OpenGL: 3.3.0 NVIDIA 270.41.06, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

System Notes: Disk Scheduler: CFQ. Python 2.6.6. Compiz was running on this system. Intel SpeedStep was enabled.

ubuntu1104

Processor: Intel Core 2 Duo E7400 @ 2.80GHz (2 Cores), Motherboard: ASUS P5N73-CM, Chipset: NVIDIA nForce 630i, Memory: 4096MB, Disk: 500GB Western Digital WDC WD5000AAVS-0, Graphics: NVIDIA GeForce 9600 GT 512MB (650/900MHz), Audio: VIA VT1708B 8-Ch

OS: Ubuntu 11.04, Kernel: 2.6.38-8-generic (x86_64), Desktop: Unity 3.8.12, Display Server: X Server 1.10.1, Display Driver: NVIDIA 270.41.06, OpenGL: 3.3.0 NVIDIA 270.41.06, Compiler: GCC 4.5.2, File-System: ext4, Screen Resolution: 1680x1050

System Notes: Disk Scheduler: CFQ. Python 2.7.1+. Compiz and BOINC were running on this system. Intel SpeedStep was enabled.

archlinux

Processor: Intel Core 2 Duo E7400 @ 2.80GHz (2 Cores), Motherboard: ASUS P5N73-CM, Chipset: NVIDIA nForce 630i, Memory: 4096MB, Disk: 500GB Western Digital WDC WD5000AAVS-0, Graphics: NVIDIA GeForce 9600 GT 512MB (650/900MHz), Audio: VIA VT1708B 8-Ch

OS: Arch, Kernel: 2.6.38-ARCH (x86_64), Display Server: X Server 1.10.1, Display Driver: NVIDIA 270.41.06, OpenGL: 3.3.0 NVIDIA 270.41.06, Compiler: GCC 4.6.0, File-System: ext4, Screen Resolution: 1680x1050

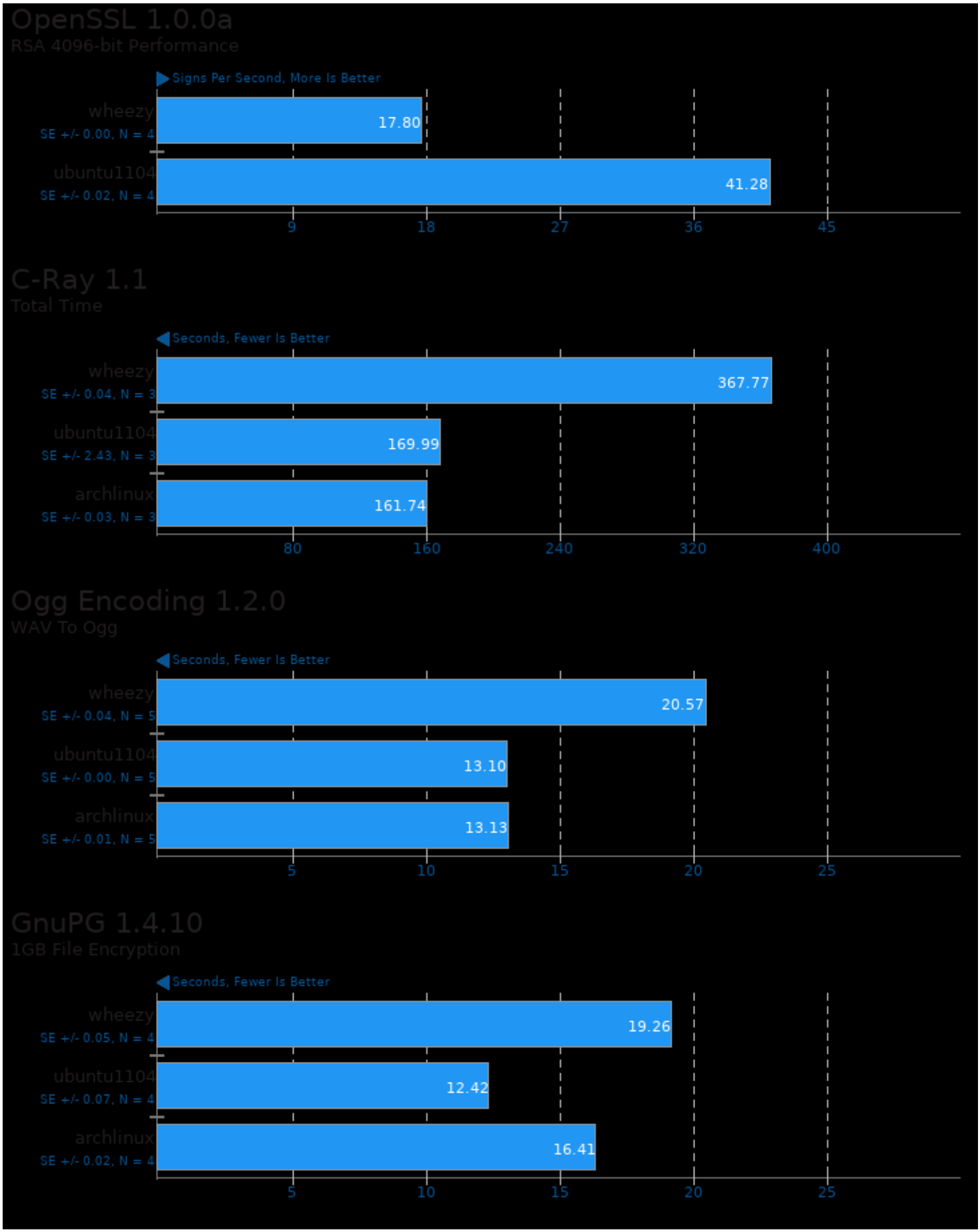
System Notes: Disk Scheduler: CFQ. Python 3.2.

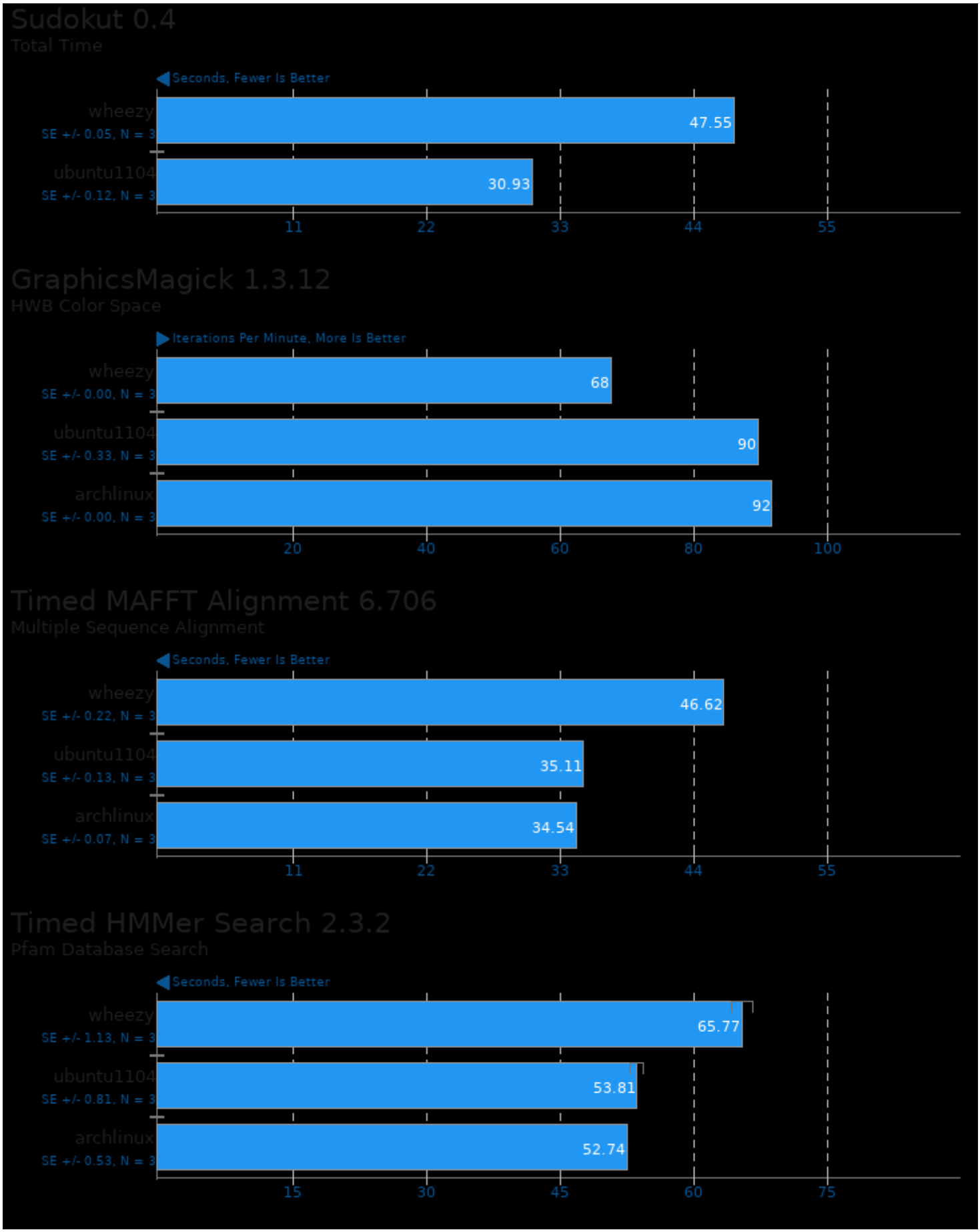
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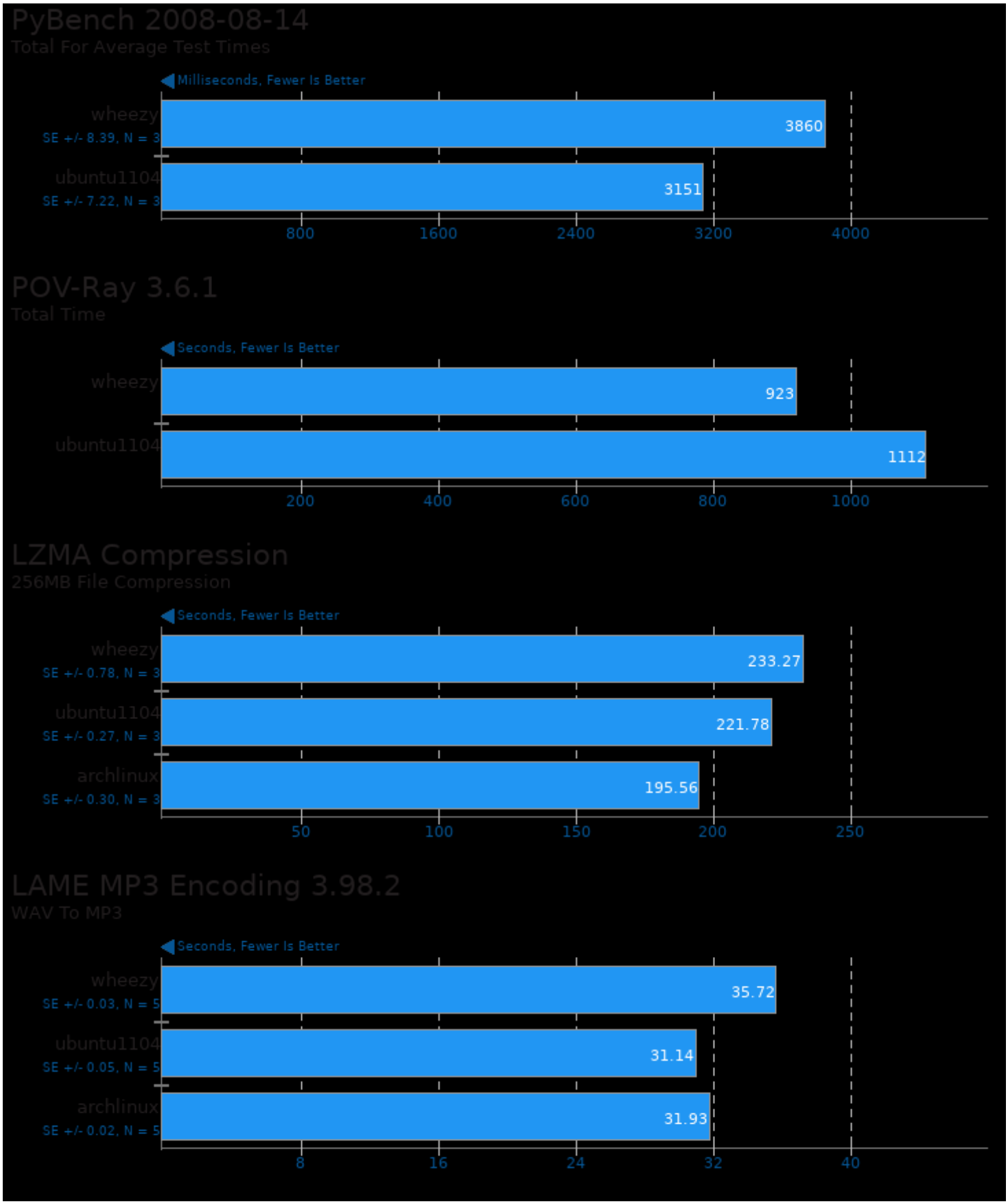
	wheezy	ubuntu1104	archlinux
OpenSSL - R.4.b.P (Signs/sec)	**17.80**	**41.28**	
Normalized	43.12%	100%	
Standard Deviation	0%	0.1%	
C-Ray - Total Time (sec)	**367.77**	169.99	**161.74**
Normalized	43.98%	95.15%	100%
Standard Deviation	0%	2.5%	0%
Ogg Encoding - WAV To Ogg (sec)	**20.57**	**13.10**	13.13
Normalized	63.68%	100%	99.77%
Standard Deviation	0.4%	0.1%	0.2%
GnuPG - 1.F.E (sec)	**19.26**	**12.42**	16.41
Normalized	64.49%	100%	75.69%
Standard Deviation	0.5%	1.2%	0.2%
Sudokut - Total Time (sec)	**47.55**	**30.93**	
Normalized	65.05%	100%	
Standard Deviation	0.2%	0.7%	
GraphicsMagick - HWB Color Space (Iterations/min)	**68**	90	**92**
Normalized	73.91%	97.83%	100%
Standard Deviation	0%	0.6%	0%
Timed MAFFT Alignment - M.S.A (sec)	**46.62**	35.11	**34.54**
Normalized	74.09%	98.38%	100%
Standard Deviation	0.8%	0.6%	0.4%
Timed HMMer Search - P.D.S (sec)	**65.77**	53.81	**52.74**
Normalized	80.19%	98.01%	100%
Standard Deviation	3%	2.6%	1.7%
PyBench - T.F.A.T.T (Milliseconds)	**3860**	**3151**	
Normalized	81.63%	100%	
Standard Deviation	0.4%	0.4%	
POV-Ray - Total Time (sec)	**923**	**1112**	
Normalized	100%	83%	
LZMA Compression - 2.F.C (sec)	**233.27**	221.78	**195.56**
Normalized	83.83%	88.18%	100%
Standard Deviation	0.6%	0.2%	0.3%
LAME MP3 Encoding - WAV To MP3 (sec)	**35.72**	**31.14**	31.93
Normalized	87.18%	100%	97.53%
Standard Deviation	0.2%	0.4%	0.1%
SQLite - 12,500 INSERTs (sec)	**1050**	**916.27**	954.04
Normalized	87.26%	100%	96.04%
Standard Deviation	0.3%	1.1%	1.7%
Threaded I/O Tester - 64MB Write - 32 Threads (MB/s)	31.11	**31.48**	**28.51**
Normalized	98.82%	100%	90.57%
Standard Deviation	1.5%	1.8%	1.6%
FFmpeg - AVI To NTSC VCD (sec)	**18.78**	17.29	**17.11**
Normalized	91.11%	98.96%	100%
Standard Deviation	1.5%	1.3%	0.9%
Dbench - 12 Clients (MB/s)	43.67	**46.10**	**42.71**
Normalized	94.73%	100%	92.65%
Standard Deviation	2.2%	2.4%	1.8%
GraphicsMagick - L.A.T (Iterations/min)	**25**	**24**	**24**
Normalized	100%	96%	96%
Standard Deviation	0%	0%	0%
Minion - Solitaire (sec)	**176.82**	**183.03**	
Normalized	100%	96.61%	

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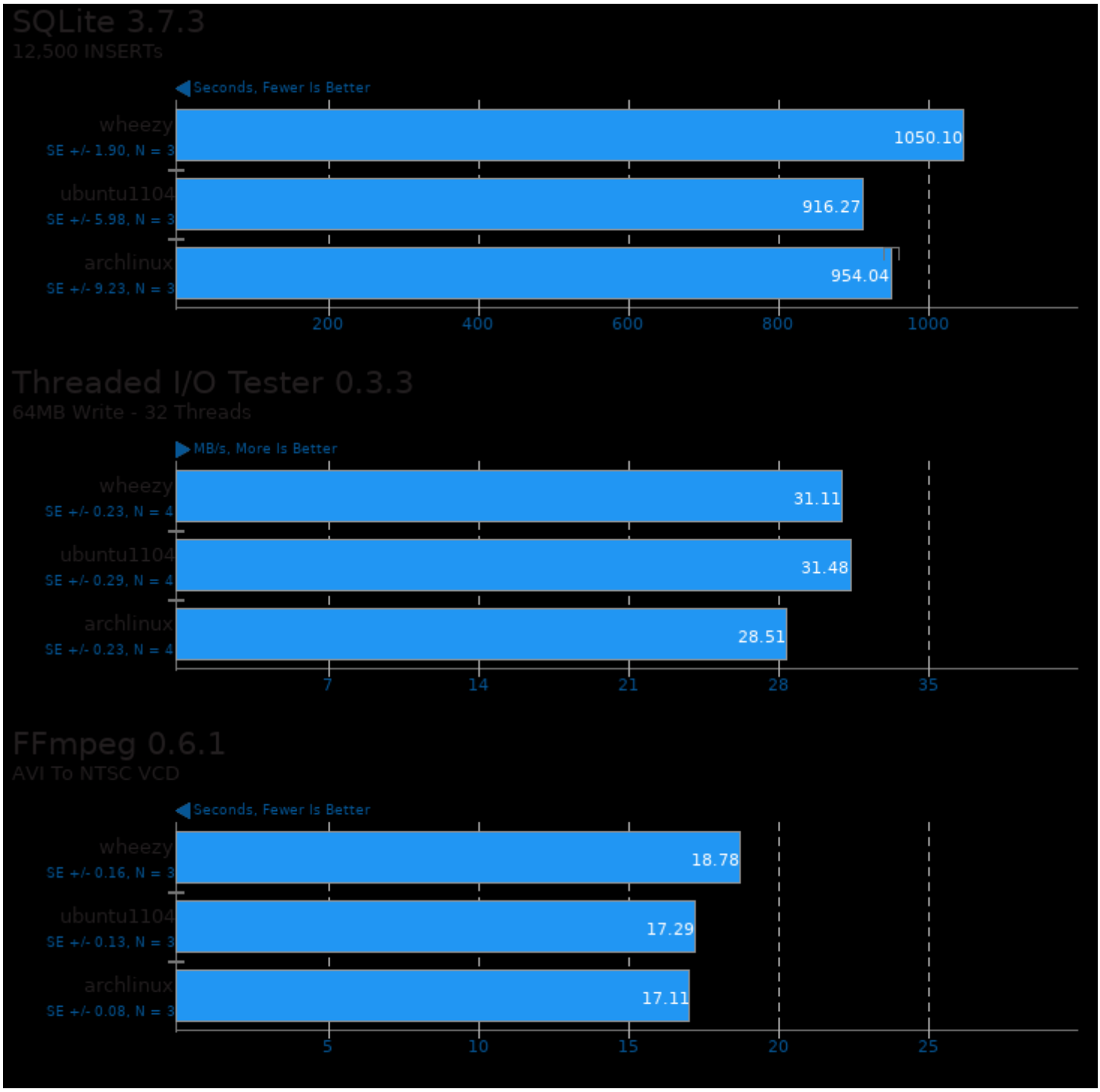
Standard Deviation	0.4%	1.1%	
GMPbench - Total Time (GMPbench Score)		11124	
Standard Deviation		0.2%	
Tachyon - Total Time (sec)	92.23		
Standard Deviation	0.1%		
dcraw - R.T.P.I.C (sec)	**38.34**	33.31	**32.93**
Normalized	85.89%	98.86%	100%
Standard Deviation	8.1%	8.1%	4.4%
PostMark - D.T.P (TPS)	**154**	1585	**2454**
Normalized	6.28%	64.59%	100%
Standard Deviation	4.5%	12.9%	3.9%
Threaded I/O Tester - 64MB Read - 32 Threads (MB/s)	**3855**	**3311**	3438
Normalized	100%	85.87%	89.17%
Standard Deviation	0.6%	39.3%	39.5%
Apache Benchmark - S.W.P.S (Reqs/sec)	11575	**11925**	**421.09**
Normalized	97.06%	100%	3.53%
Standard Deviation	1.2%	2.4%	6.8%
Parallel BZIP2 Compression - 2.F.C (sec)	**53.55**	**32.00**	40.82
Normalized	59.76%	100%	78.39%
Standard Deviation	1.3%	2.5%	11.4%

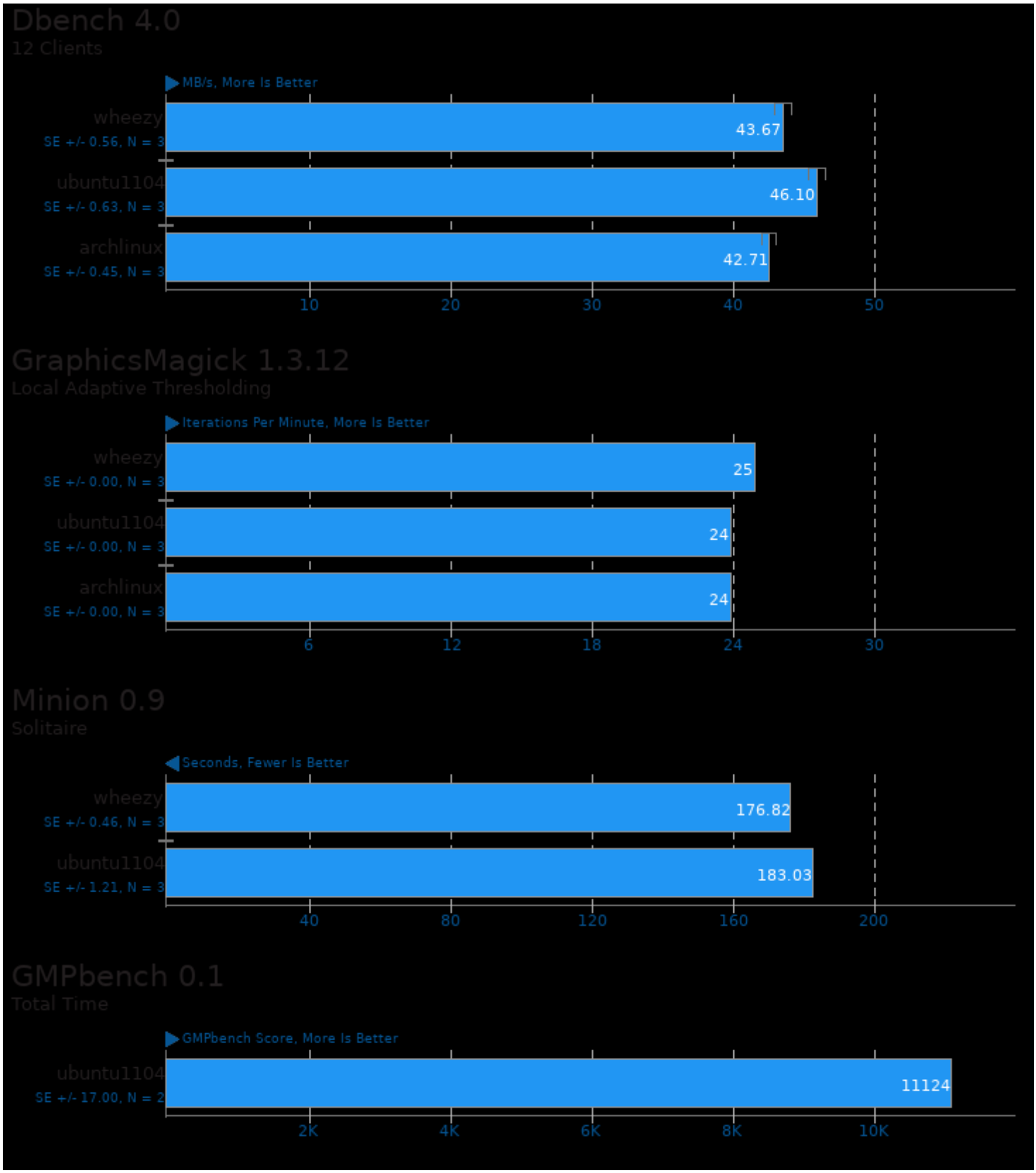

OpenSSL 1.0.0a
RSA 4096-bit Performance
Signs Per Second, More Is Better
wheezy
SE +/- 0.00, N = 4
17.80
ubuntu1104
SE +/- 0.02, N = 4
41.28
9
18
27
36
45
C-Ray 1.1
Total Time
Seconds, Fewer Is Better
wheezy
SE +/- 0.04, N = 3
367.77
ubuntu1104
SE +/- 2.43, N = 3
169.99
archlinux
SE +/- 0.03, N = 3
161.74
80
160
240
320
400
Ogg Encoding 1.2.0
WAV To Ogg
Seconds, Fewer Is Better
wheezy
SE +/- 0.04, N = 5
20.57
ubuntu1104
SE +/- 0.00, N = 5
13.10
archlinux
SE +/- 0.01, N = 5
13.13
5
10
15
20
25
GnuPG 1.4.10
1GB File Encryption
Seconds, Fewer Is Better
wheezy
SE +/- 0.05, N = 4
19.26
ubuntu1104
SE +/- 0.07, N = 4
12.42
archlinux
SE +/- 0.02, N = 4
16.41
5
10
15
20
25

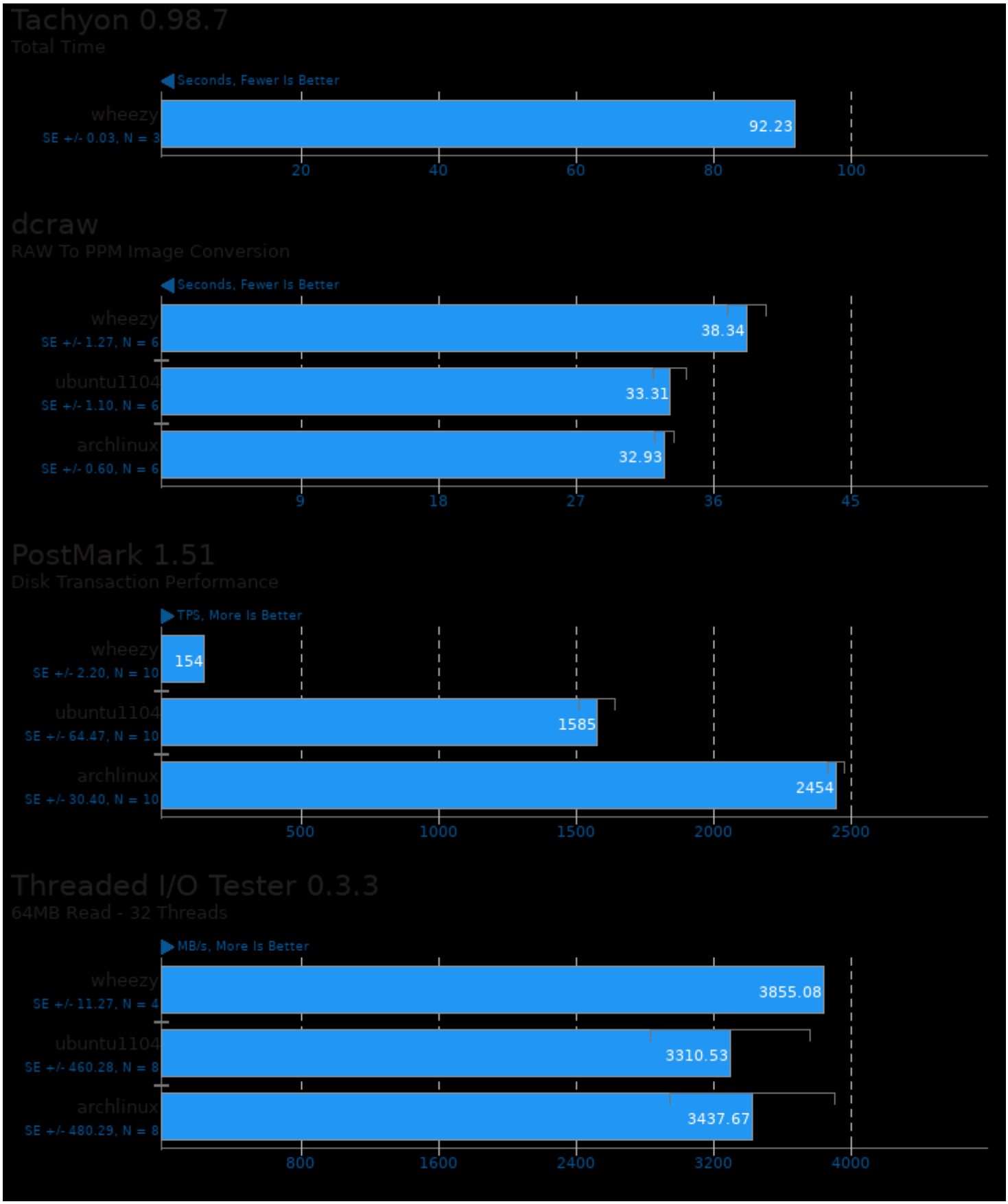

Sudokut 0.4
Total Time
Seconds, Fewer Is Better
wheezy
SE +/- 0.05, N = 3
47.55
ubuntu1104
SE +/- 0.12, N = 3
30.93
11
22
33
44
55
GraphicsMagick 1.3.12
HWB Color Space
Iterations Per Minute, More Is Better
wheezy
SE +/- 0.00, N = 3
68
ubuntu1104
SE +/- 0.33, N = 3
90
archlinux
SE +/- 0.00, N = 3
92
20
40
60
80
100
Timed MAFFT Alignment 6.706
Multiple Sequence Alignment
Seconds, Fewer Is Better
wheezy
SE +/- 0.22, N = 3
46.62
ubuntu1104
SE +/- 0.13, N = 3
35.11
archlinux
SE +/- 0.07, N = 3
34.54
11
22
33
44
55
Timed HMMer Search 2.3.2
Pfam Database Search
Seconds, Fewer Is Better
wheezy
SE +/- 1.13, N = 3
65.77
ubuntu1104
SE +/- 0.81, N = 3
53.81
archlinux
SE +/- 0.53, N = 3
52.74
15
30
45
60
75

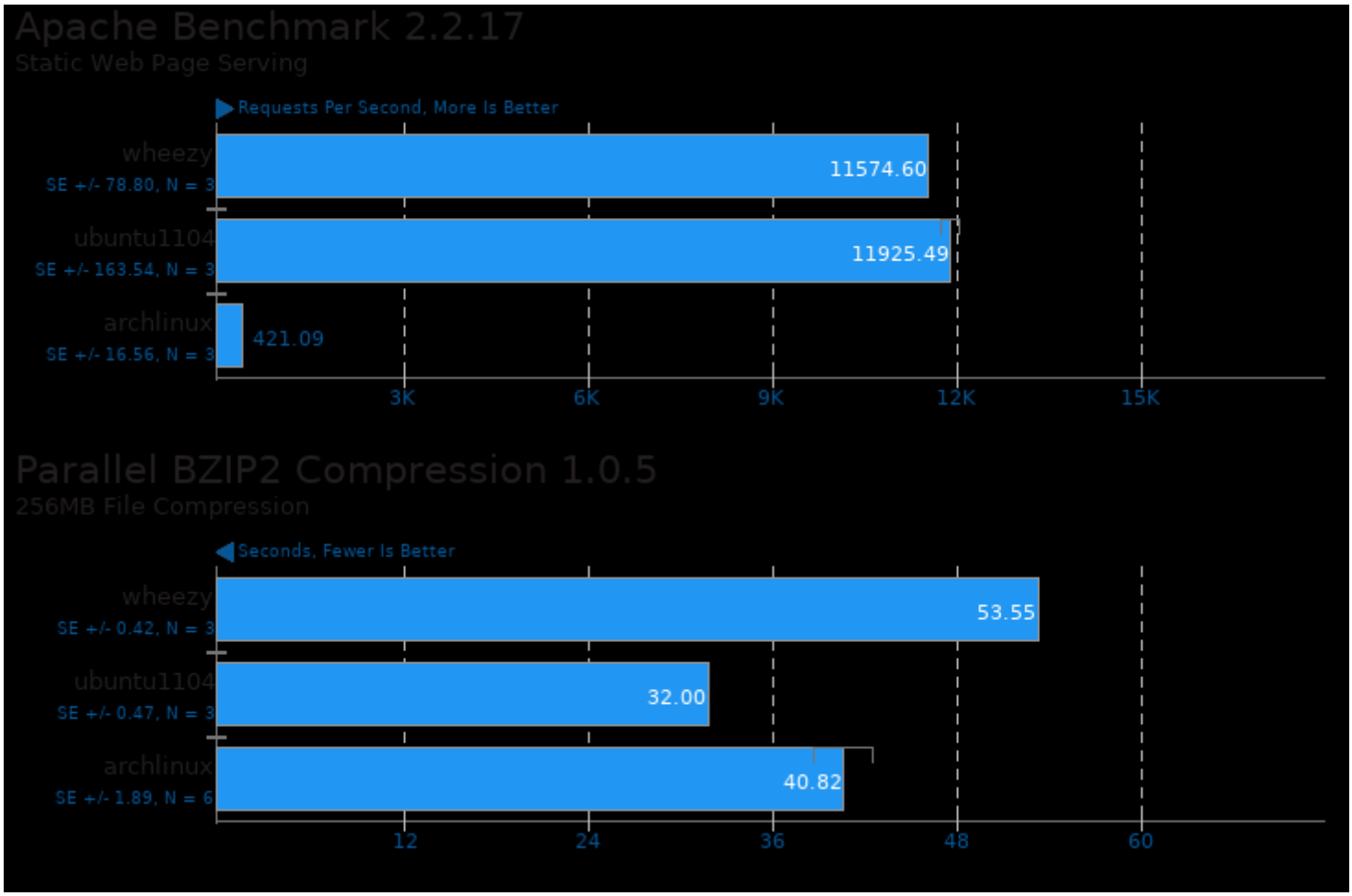

PyBench 2008-08-14
Total For Average Test Times
Milliseconds, Fewer Is Better
wheezy
SE +/- 8.39, N = 3
3860
ubuntu1104
SE +/- 7.22, N = 3
3151
800
1600
2400
3200
4000
POV-Ray 3.6.1
Total Time
Seconds, Fewer Is Better
wheezy
923
ubuntu1104
1112
200
400
600
800
1000
LZMA Compression
256MB File Compression
Seconds, Fewer Is Better
wheezy
SE +/- 0.78, N = 3
233.27
ubuntu1104
SE +/- 0.27, N = 3
221.78
archlinux
SE +/- 0.30, N = 3
195.56
50
100
150
200
250
LAME MP3 Encoding 3.98.2
WAV To MP3
Seconds, Fewer Is Better
wheezy
SE +/- 0.03, N = 5
35.72
ubuntu1104
SE +/- 0.05, N = 5
31.14
archlinux
SE +/- 0.02, N = 5
31.93
8
16
24
32
40

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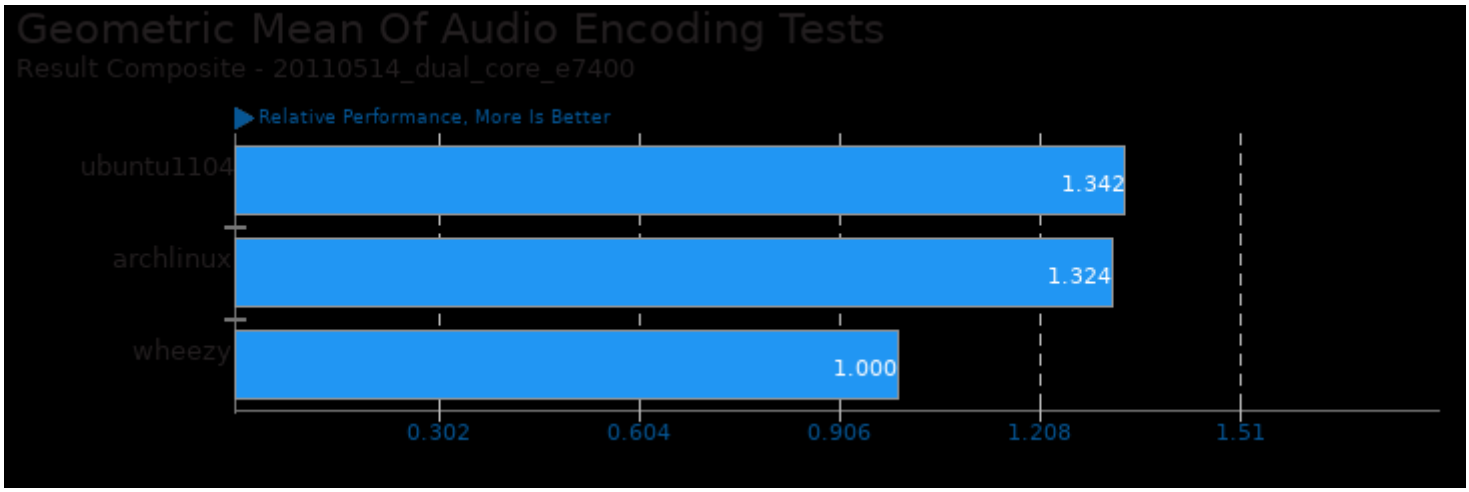

Dbench 4.0
12 Clients
MB/s, More Is Better
wheezy
SE +/- 0.56, N = 3
43.67
ubuntu1104
SE +/- 0.63, N = 3
46.10
archlinux
SE +/- 0.45, N = 3
42.71
10
20
30
40
50
GraphicsMagick 1.3.12
Local Adaptive Thresholding
Iterations Per Minute, More Is Better
wheezy
SE +/- 0.00, N = 3
25
ubuntu1104
SE +/- 0.00, N = 3
24
archlinux
SE +/- 0.00, N = 3
24
6
12
18
24
30
Minion 0.9
Solitaire
Seconds, Fewer Is Better
wheezy
SE +/- 0.46, N = 3
176.82
ubuntu1104
SE +/- 1.21, N = 3
183.03
40
80
120
160
200
GMPbench 0.1
Total Time
GMPbench Score, More Is Better
ubuntu1104
SE +/- 17.00, N = 2
11124
2K
4K
6K
8K
10K


Tachyon 0.98.7
Total Time
Seconds, Fewer Is Better
wheezy
SE +/- 0.03, N = 3
92.23
20
40
60
80
100
dcraw
RAW To PPM Image Conversion
Seconds, Fewer Is Better
wheezy
SE +/- 1.27, N = 6
38.34
ubuntu1104
SE +/- 1.10, N = 6
33.31
archlinux
SE +/- 0.60, N = 6
32.93
9
18
27
36
45
PostMark 1.51
Disk Transaction Performance
TPS, More Is Better
wheezy
SE +/- 2.20, N = 10
154
ubuntu1104
SE +/- 64.47, N = 10
1585
archlinux
SE +/- 30.40, N = 10
2454
500
1000
1500
2000
2500
Threaded I/O Tester 0.3.3
64MB Read - 32 Threads
MB/s, More Is Better
wheezy
SE +/- 11.27, N = 4
3855.08
ubuntu1104
SE +/- 460.28, N = 8
3310.53
archlinux
SE +/- 480.29, N = 8
3437.67
800
1600
2400
3200
4000

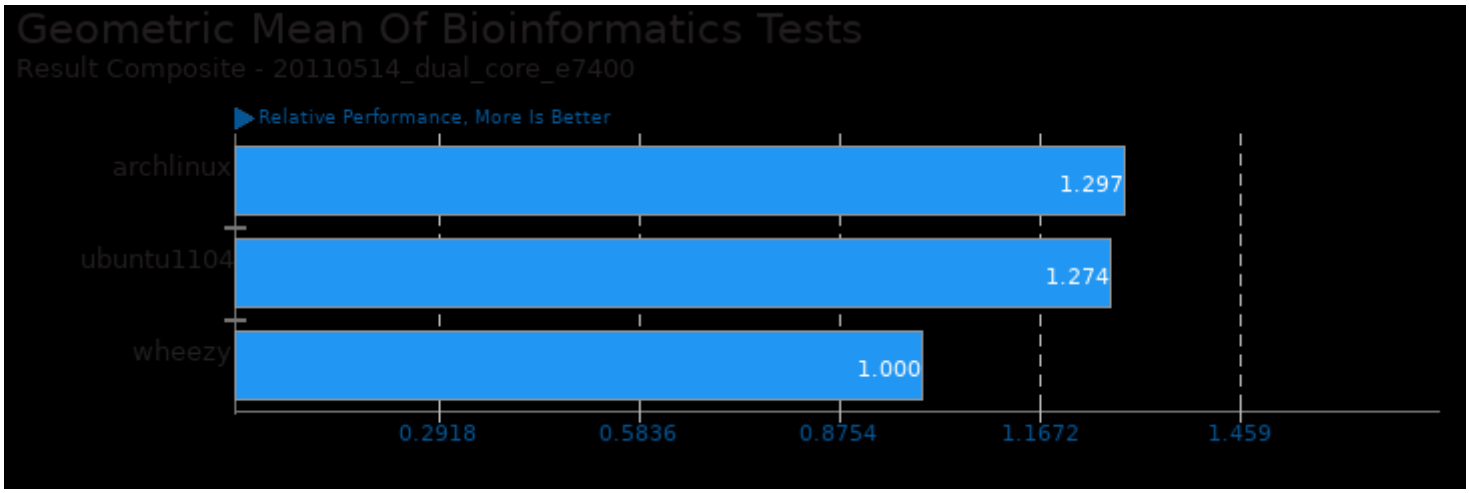

Apache Benchmark 2.2.17
Static Web Page Serving
Requests Per Second, More Is Better
wheezy
SE +/- 78.80, N = 3
11574.60
ubuntu1104
SE +/- 163.54, N = 3
11925.49
archlinux
SE +/- 16.56, N = 3
421.09
3K
6K
9K
12K
15K
Parallel BZIP2 Compression 1.0.5
256MB File Compression
Seconds, Fewer Is Better
wheezy
SE +/- 0.42, N = 3
53.55
ubuntu1104
SE +/- 0.47, N = 3
32.00
archlinux
SE +/- 1.89, N = 6
40.82
12
24
36
48
60

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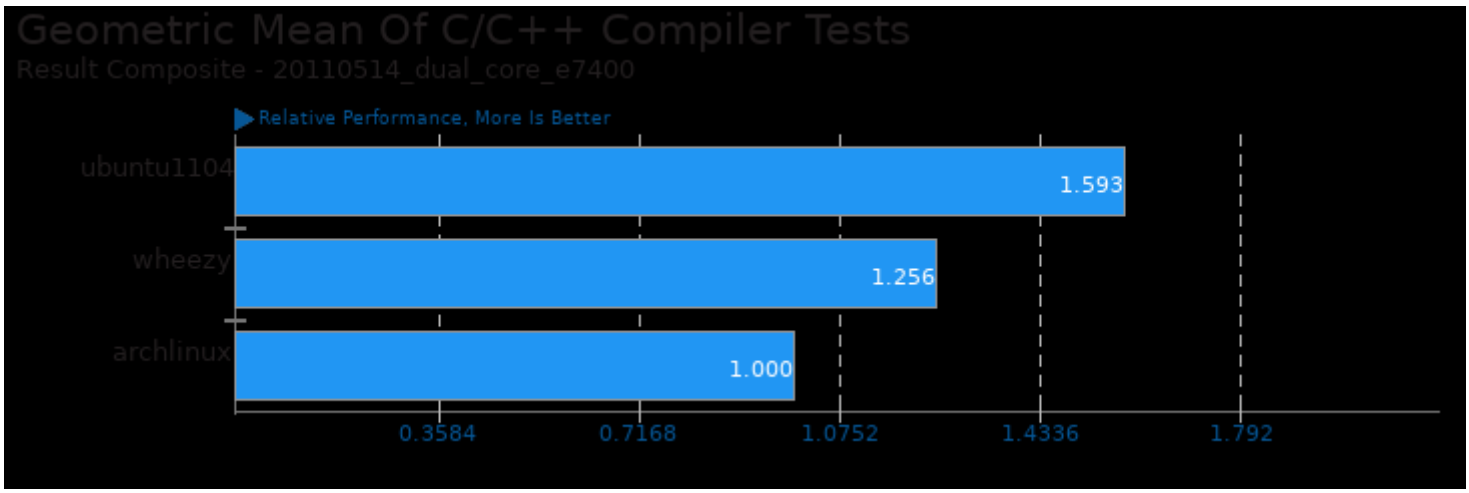
These geometric means are based upon test groupings / test suites for this result file.



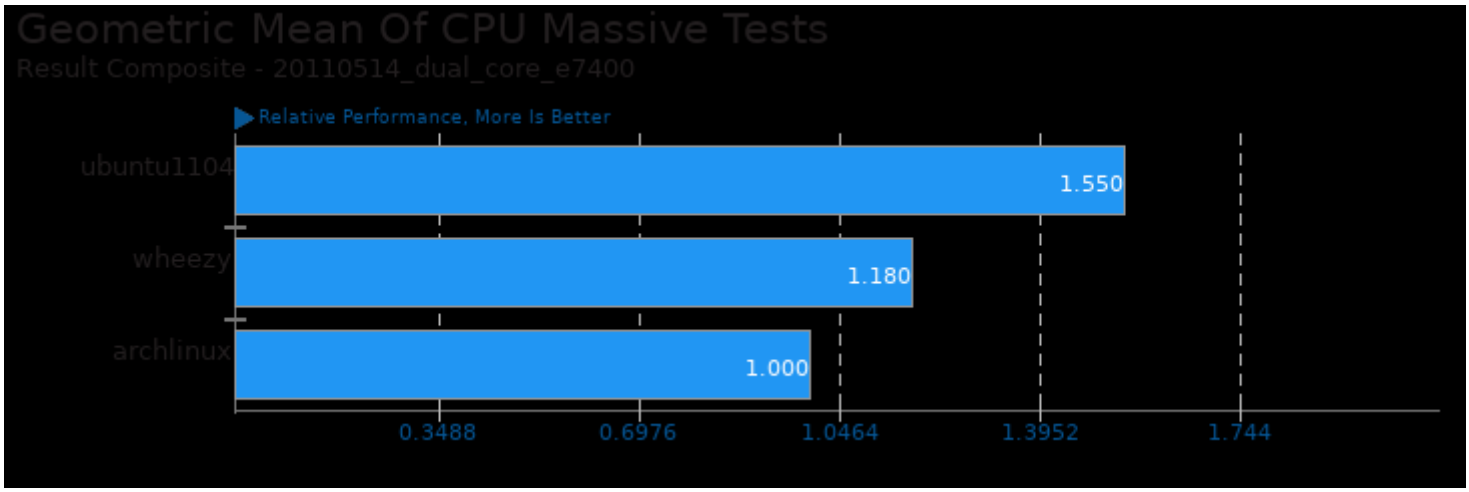
Geometric mean based upon tests: pts/encode-mp3 and pts/encode-ogg



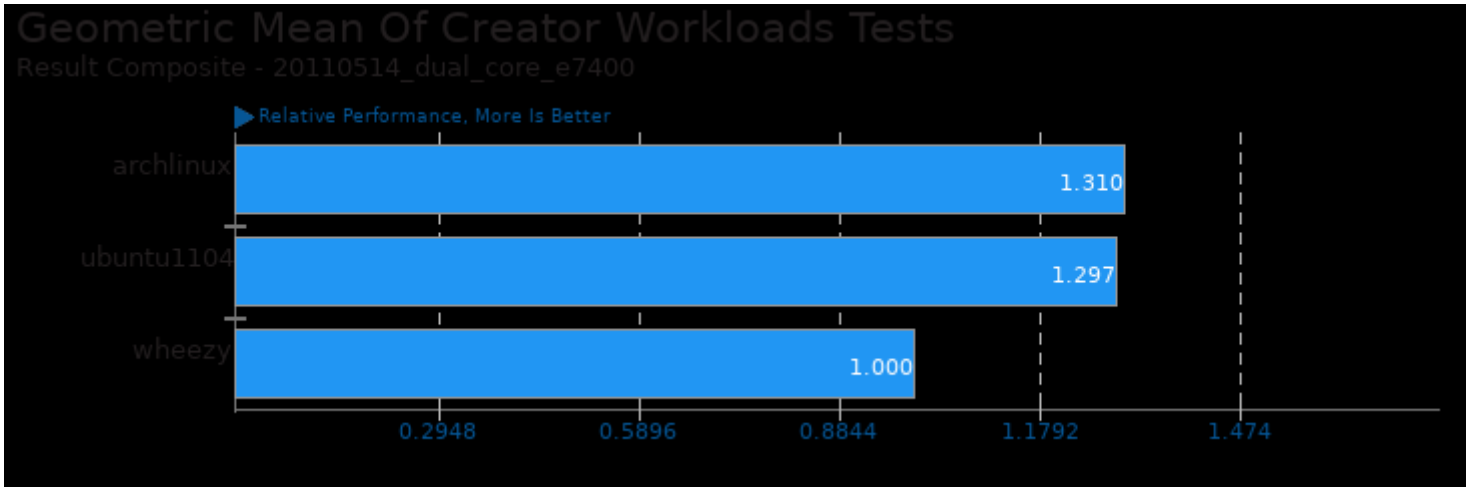
Geometric mean based upon tests: pts/hmmer and pts/mafft



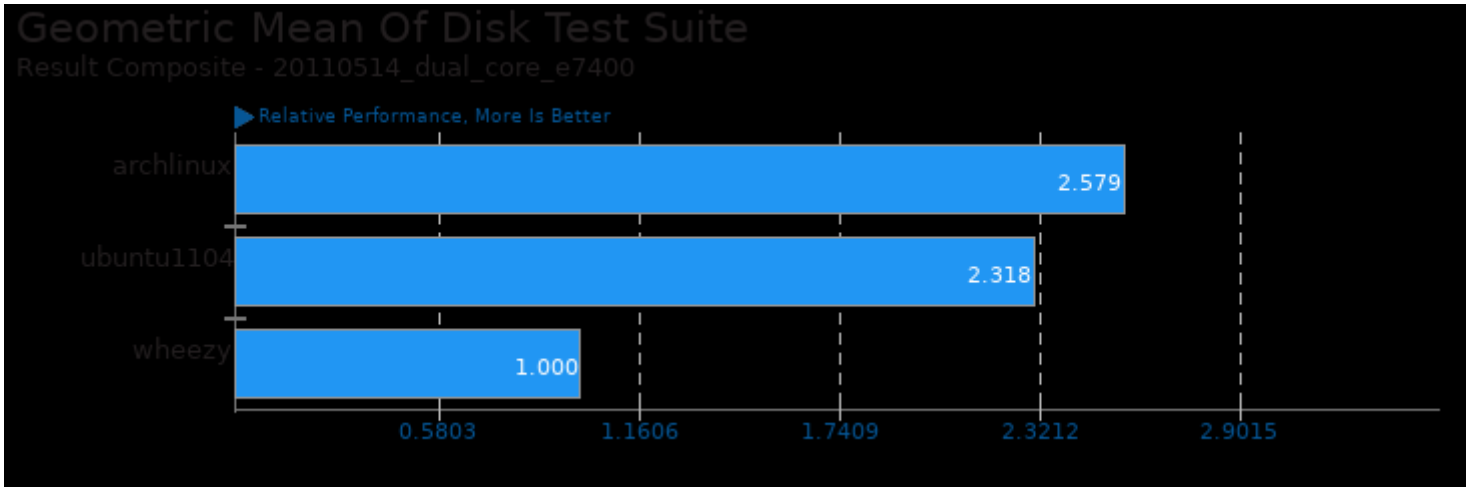
Geometric mean based upon tests: pts/mafft, pts/graphics-magick, pts/hmmer, pts/c-ray, pts/encode-mp3, pts/apache, pts/openssl and pts/tachyon



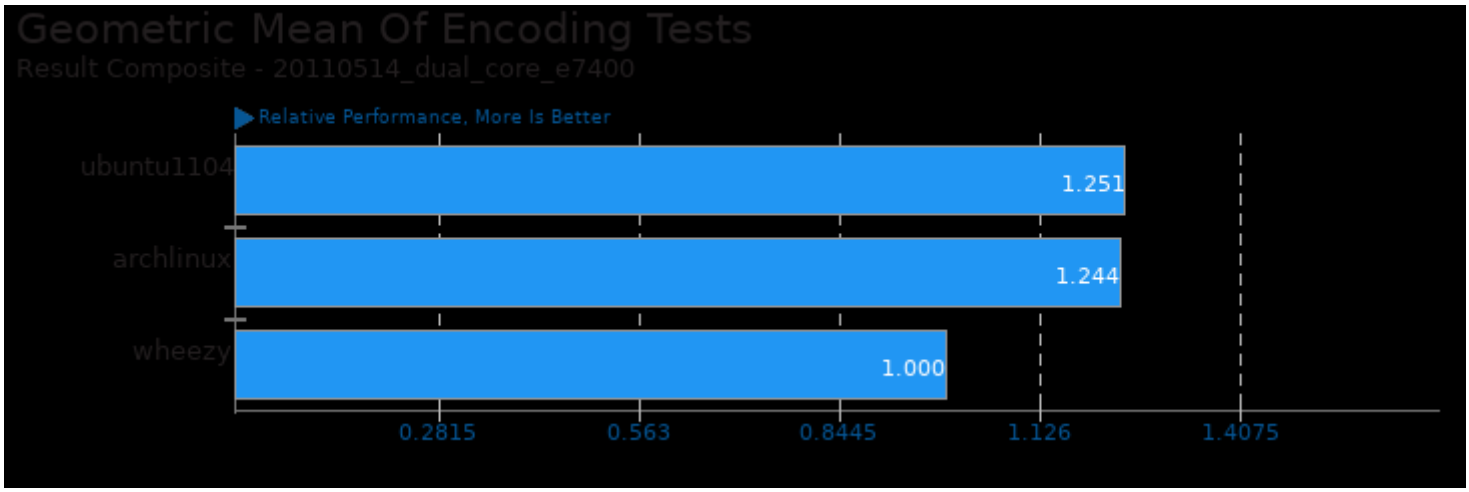
Geometric mean based upon tests: pts/apache, pts/c-ray, pts/compress-pbzip2, pts/encode-mp3, pts/graphics-magick, pts/hmmer, pts/openssl, pts/mafft, pts/minion, pts/povray and pts/tachyon



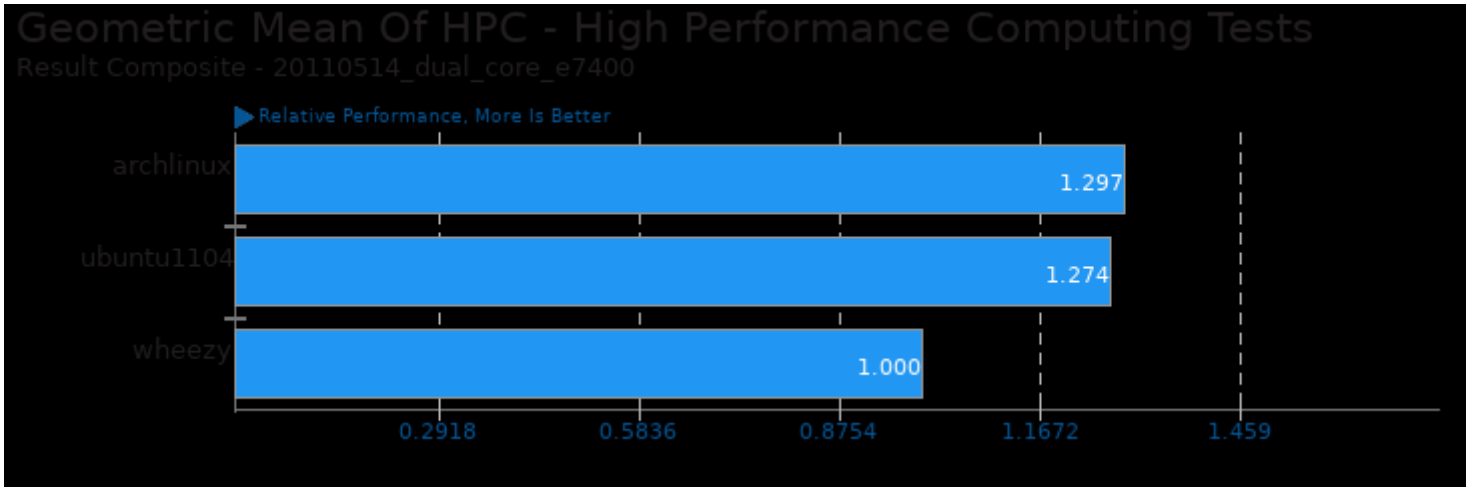
Geometric mean based upon tests: pts/c-ray, pts/tachyon, pts/povray, pts/ffmpeg, pts/encode-mp3, pts/encode-ogg, pts/graphics-magick and pts/dcraw



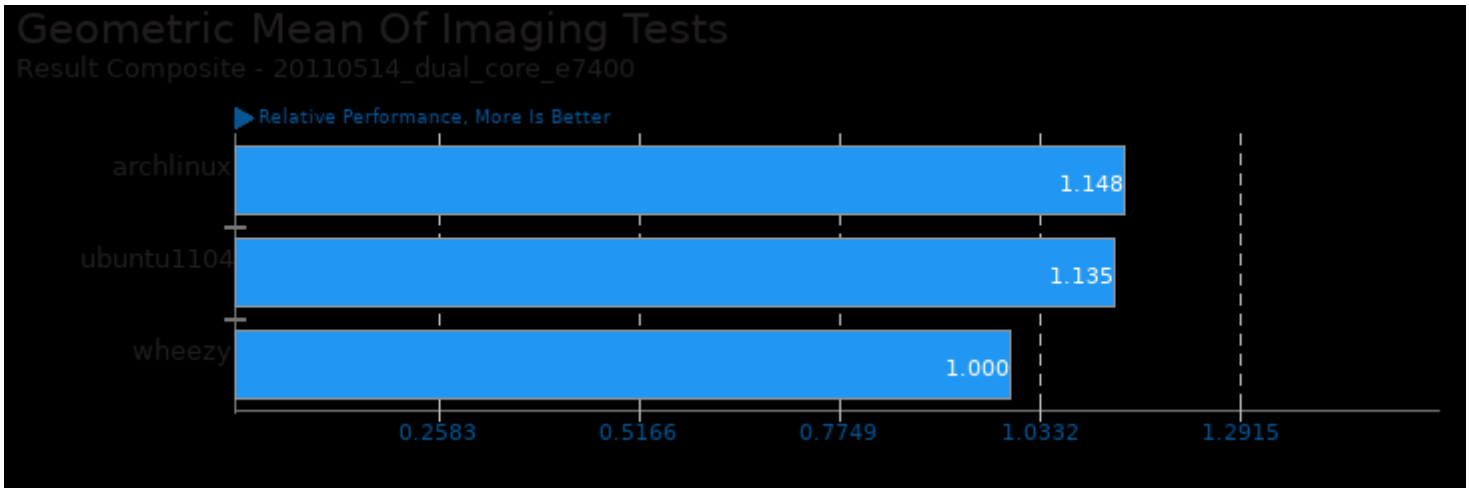
Geometric mean based upon tests: pts/sqlite, pts/dbench and pts/postmark



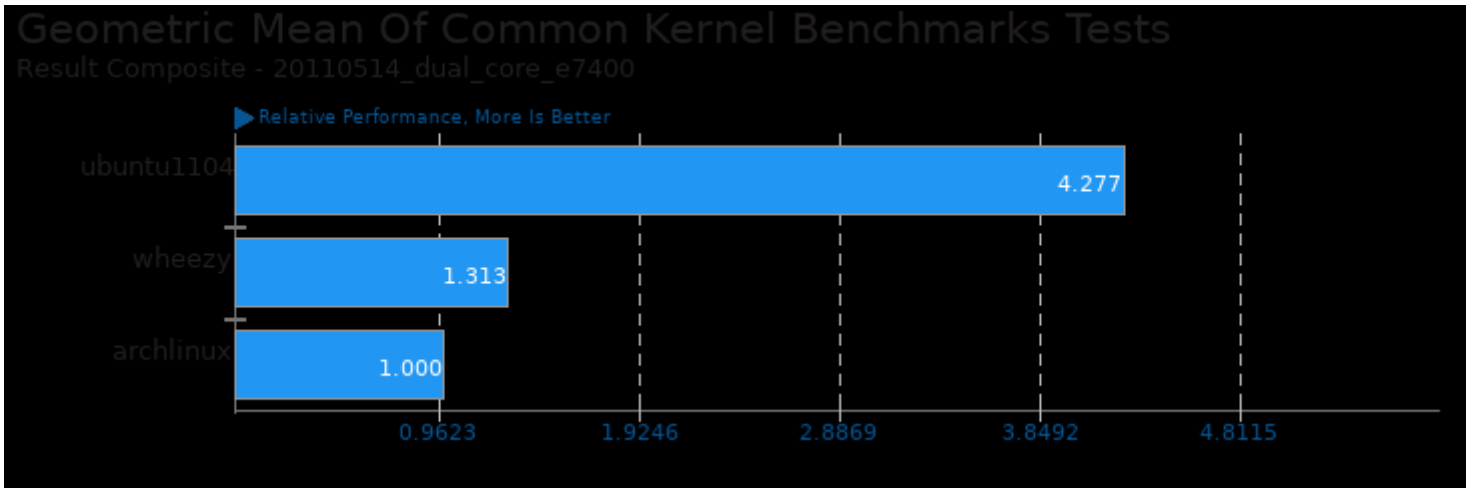
Geometric mean based upon tests: pts/encode-mp3, pts/encode-ogg and pts/ffmpeg



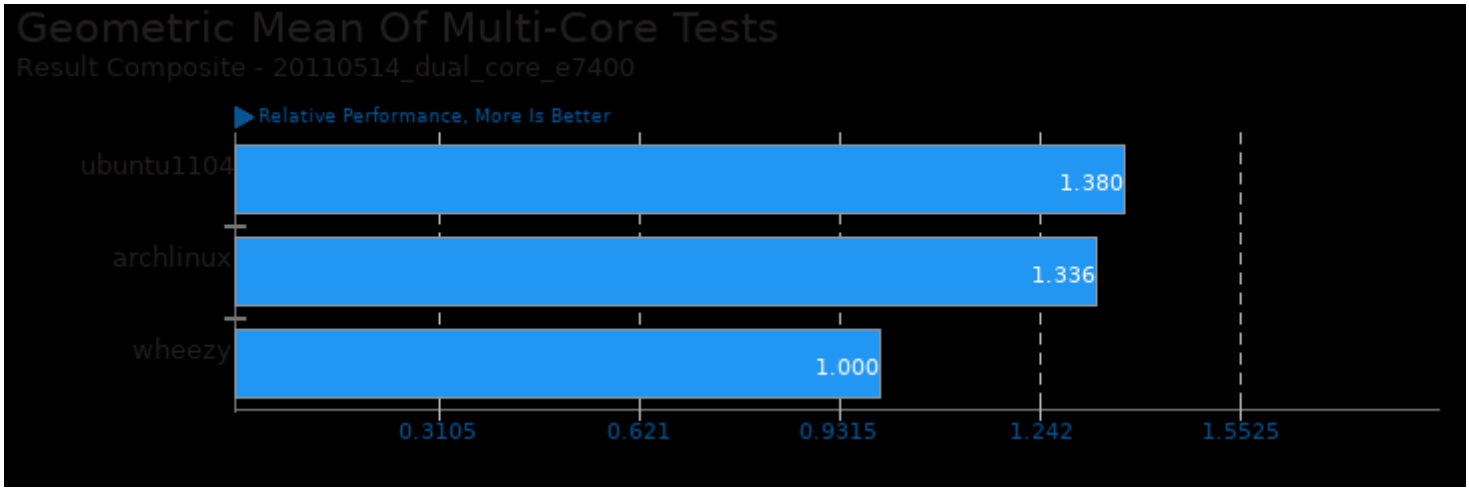
Geometric mean based upon tests: pts/hmmer and pts/mafft



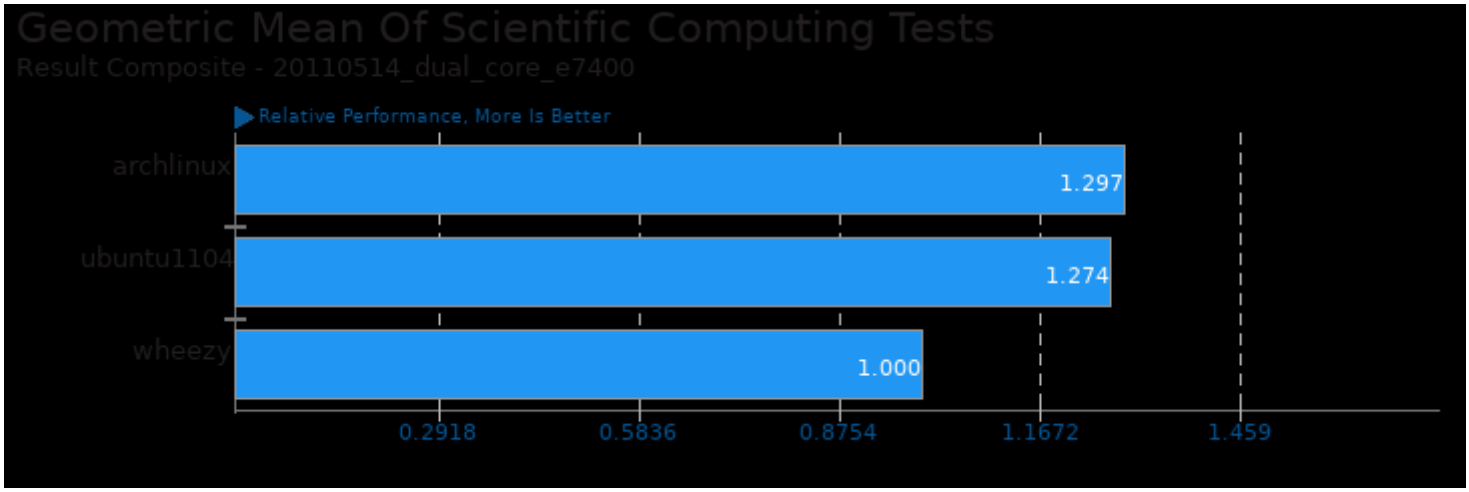
Geometric mean based upon tests: pts/graphics-magick and pts/dcraw



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



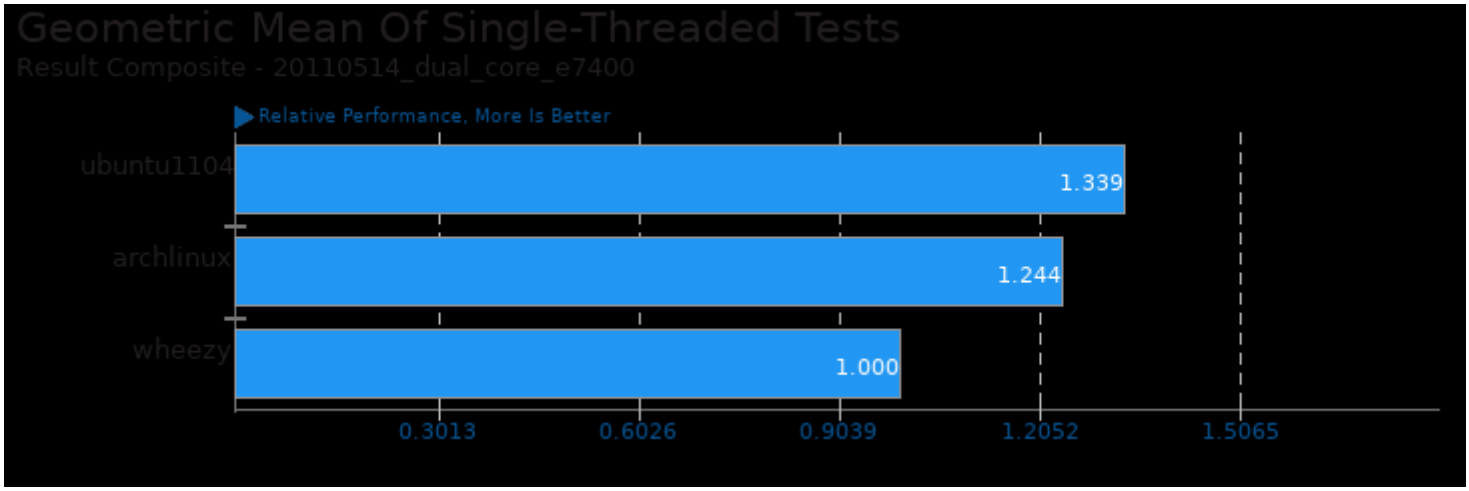
Geometric mean based upon tests: pts/c-ray, pts/tachyon, pts/povray, pts/ffmpeg, pts/graphics-magick and pts/compress-pbzip2



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



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



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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