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liquorix0

Intel Core i5-2300 testing with a Gigabyte Z68P-DS3 and NVIDIA GeForce GTX 560 Ti on Debian testing via the Phoronix Test Suite.

Automated Executive Summary

liquorix0 had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (liquorix0) was 1.402x the speed of the slowest (FX-4100). wheezy1 was 0.998x the speed of liquorix0, liquorix1 was 0.998x the speed of wheezy1, WHEEZY0 was 0.982x the speed of liquorix1, monserveur4.2GHz was 0.843x the speed of WHEEZY0, monserveur was 0.945x the speed of monserveur4.2GHz, FX-4100 was 0.914x the speed of monserveur.

Test Systems:

liquorix0

Processor: Intel Core i5-2300 @ 3.00GHz (4 Cores), Motherboard: Gigabyte Z68P-DS3, Chipset: Intel 2nd Generation

Core Family, Memory: 2 x 4096 MB 1600MHz, Disk: 120GB OCZ SOLID3 + 2000GB Hitachi HDS5C302, Graphics: NVIDIA GeForce GTX 560 Ti, Audio: NVIDIA GPU 16 HDMI/DP, Network: Realtek RTL8111/8168B

OS: Debian testing, Kernel: 3.0.0-8.dmz.1-liquorix-amd64 (x86_64), Display Driver: NVIDIA 1.0.0, Compiler: GCC 4.6, File-System: ext4

System Notes: Intel SpeedStep was enabled.

WHEEZY0

Processor: Intel Core i5-2300 @ 2.81GHz (4 Cores), Motherboard: Gigabyte Z68P-DS3, Chipset: Intel 2nd Generation Core Family, Memory: 2 x 4096 MB 1600MHz, Disk: 120GB OCZ SOLID3 + 2000GB Hitachi HDS5C302, Graphics: NVIDIA GeForce GTX 560 Ti, Audio: NVIDIA GPU 16 HDMI/DP, Network: Realtek RTL8111/8168B

OS: Debian testing, Kernel: 3.0.0-1-amd64 (x86_64), Display Driver: NVIDIA 1.0.0, Compiler: GCC 4.6, File-System: ext4

wheezy1

Processor: Intel Core i5-2300 @ 2.81GHz (4 Cores), Motherboard: Gigabyte Z68P-DS3, Chipset: Intel 2nd Generation Core Family, Memory: 2 x 4096 MB 1600MHz, Disk: 120GB OCZ SOLID3 + 2000GB Hitachi HDS5C302, Graphics: NVIDIA GeForce GTX 560 Ti, Audio: NVIDIA GPU 16 HDMI/DP, Network: Realtek RTL8111/8168B

OS: Debian testing, Kernel: 3.1.0-1-amd64 (x86_64), Display Driver: NVIDIA 1.0.0, Compiler: GCC 4.6, File-System: ext4

liquorix1

Processor: Intel Core i5-2300 @ 2.81GHz (4 Cores), Motherboard: Gigabyte Z68P-DS3, Chipset: Intel 2nd Generation Core Family, Memory: 2 x 4096 MB 1600MHz, Disk: 120GB OCZ SOLID3 + 2000GB Hitachi HDS5C302, Graphics: NVIDIA GeForce GTX 560 Ti, Audio: NVIDIA GPU 16 HDMI/DP, Network: Realtek RTL8111/8168B

OS: Debian testing, Kernel: 3.0.0-8.dmz.1-liquorix-amd64 (x86_64), Display Driver: NVIDIA 1.0.0, Compiler: GCC 4.6, File-System: ext4

FX-4100

Processor: AMD FX -4100 @ 3.60GHz (4 Cores), Motherboard: Gigabyte GA-970A-UD3, Memory: 8192MB, Disk: 200GB SAMSUNG SP2004C + 250GB SAMSUNG SP2504C, Graphics: NVIDIA GeForce 8600 GT/PCIe/SSE2 512MB (540/400MHz), Audio: Realtek ALC889

OS: Gentoo Base release 2.0.3, Kernel: 3.2.1-gentoo-r2 (x86_64), Desktop: GNOME 2.32.1, Display Server: X Server 1.11.2, Display Driver: NVIDIA 295.20, OpenGL: 3.3.0 NVIDIA 295.20, Compiler: llvm 2.9, File-System: ext3, Screen Resolution: 1920x1080

System Notes: Firefox, Thunderbird, and BOINC were running on this system. AMD CnQ was enabled.

monserveur

Processor: AMD FX-4100 @ 3.82GHz (4 Cores), Motherboard: Gigabyte GA-880GMA-USB3, Chipset: AMD RS880, Memory: 8192MB, Disk: 3 x 2000GB Seagate ST2000DL003-9VT1 + 2000GB Seagate ST2000DM001-9YN1 + 60GB Corsair Force 3, Graphics: ATI Radeon HD 4250 512MB (560/667MHz), Audio: Realtek ALC889, Monitor: CMC 22 W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 12.04, Kernel: 3.2.0-56-generic (x86_64), Desktop: Unity 5.20.0, Display Server: X Server 1.11.3, Display Driver: fglrx 8.96.4, Compiler: GCC 4.6, File-System: ext4, Screen Resolution: 1680x1050

System Notes: Compiz was running on this system.

monserveur4.2GHz

Processor: AMD FX-4100 @ 4.22GHz (4 Cores), Motherboard: Gigabyte GA-880GMA-USB3, Chipset: AMD RS880, Memory: 8192MB, Disk: 3 x 2000GB Seagate ST2000DL003-9VT1 + 2000GB Seagate ST2000DM001-9YN1 + 60GB Corsair Force 3, Graphics: ATI Radeon HD 4250 512MB (560/667MHz), Audio: Realtek ALC889, Monitor: CMC 22 W, Network: Realtek RTL8111/8168/8411

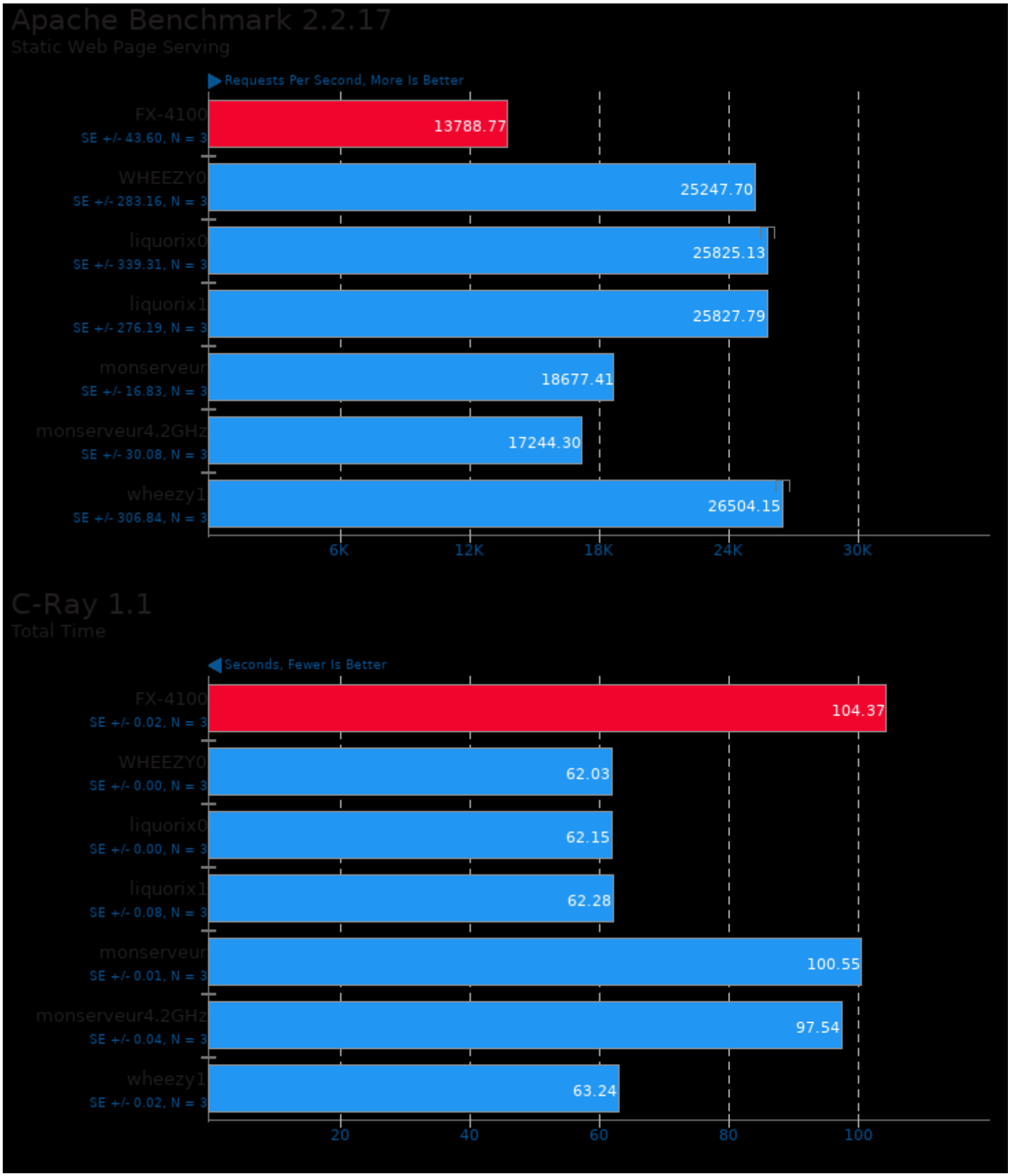
OS: Ubuntu 12.04, Kernel: 3.2.0-57-generic (x86_64), Desktop: Unity 2D 5.20.0, Display Server: X Server 1.11.3, Display Driver: fglrx 8.96.4, Compiler: GCC 4.6, File-System: ext4

	liquorix0	WHEEZY0	wheezy1	liquorix1	FX-4100	monserveur	monserveur 4.2GHz
Apache Benchmark - S.W.P.S (Reqs/sec)	25825	25248	**26504**	25828	**13789**	18677	17244
Normalized	97.44%	95.26%	100%	97.45%	52.02%	70.47%	65.06%
Standard Deviation	2.3%	1.9%	2%	1.9%	0.5%	0.2%	0.3%
C-Ray - Total Time (sec)	62.15	**62.03**	63.24	62.28	**104.37**	100.55	97.54
Normalized	99.81%	100%	98.09%	99.6%	59.43%	61.69%	63.59%
Standard Deviation	0%	0%	0.1%	0.2%	0%	0%	0.1%
Parallel BZIP2 Compression - 2.F.C (sec)	12.47	12.48	**12.32**	12.47	**17.49**	15.96	15.15
Normalized	98.8%	98.72%	100%	98.8%	70.44%	77.19%	81.32%
Standard Deviation	0.4%	0.4%	0.4%	0.8%	0.6%	1.3%	1.4%
x264 - H.2.V.E (FPS)	**69.57**	66.47	66.70	69.07	**50.35**		56.24
Normalized	100%	95.54%	95.87%	99.28%	72.37%		80.84%
Standard Deviation	0.1%	1.1%	1.1%	1.6%	2.7%		1.2%
LAME MP3 Encoding - WAV To MP3 (sec)	**22.73**	24.26	**22.73**	22.78	**30.53**	30.06	26.73
Normalized	100%	93.69%	100%	99.78%	74.45%	75.62%	85.04%
Standard Deviation	0.1%	0.2%	0.3%	0.4%	0.3%	0.2%	0.1%
Timed MAFFT Alignment - M.S.A (sec)	**22.92**	24.59	23.01	22.96	**30.19**		
Normalized	100%	93.21%	99.61%	99.83%	75.92%		
Standard Deviation	0.1%	0.4%	0.3%	0.5%	0.4%		

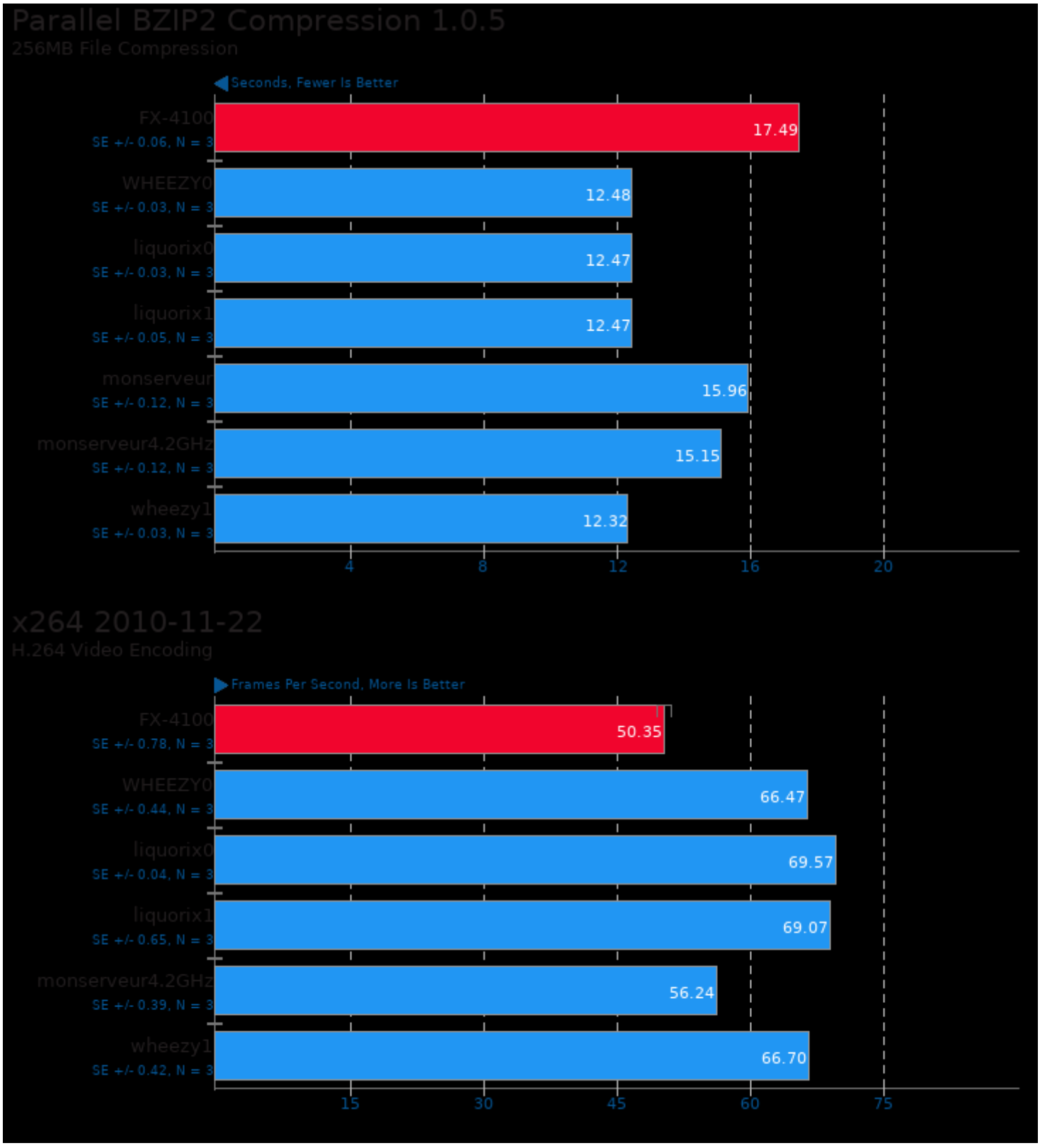
liquorix0

FLAC Audio Encoding - WAV To FLAC (sec)	**7.26**	7.76	7.28	7.27	**9.47**	8.77	7.83
Normalized	100%	93.56%	99.73%	99.86%	76.66%	82.78%	92.72%
Standard Deviation	0.1%	0.3%	0.5%	0.6%	0.4%	0%	0.1%
7-Zip Compression - C.S.T (MIPS)	11400	11241	11257	**11414**	**9047**	9433	10405
Normalized	99.88%	98.48%	98.62%	100%	79.26%	82.64%	91.16%
Standard Deviation	0.1%	0.4%	0.3%	0.1%	1.2%	0.1%	0.5%
Smallpt - G.I.R.1.S (sec)	**174**	**174**	**174**	176	**217**	200	195
Normalized	100%	100%	100%	98.86%	80.18%	87%	89.23%
Standard Deviation	0%	0.9%	0.3%	0.7%	0%	0%	0.3%
Crafty - Elapsed Time	385.56	411.35	385.24	**385.15**	**478.55**		
Normalized	99.89%	93.63%	99.98%	100%	80.48%		
Standard Deviation	0.6%	0.2%	0.2%	0.5%	0.3%		
FFmpeg - AVI To NTSC VCD (sec)	**9.80**	9.85	9.98	9.89	**12.04**	11.24	10.22
Normalized	100%	99.49%	98.2%	99.09%	81.4%	87.19%	95.89%
Standard Deviation	0.4%	2%	1.7%	2.2%	3.3%	0.4%	0.2%
GraphicsMagick - Resizing (Iterations/min)	110	103	108	**111**	**91**		
Normalized	99.1%	92.79%	97.3%	100%	81.98%		
Standard Deviation	0.5%	0%	0%	0%	0.6%		
GraphicsMagick - HWB Color Space	140	132	138	**141**	**120**		
Normalized	99.29%	93.62%	97.87%	100%	85.11%		
Standard Deviation	0%	0.4%	0%	0.4%	1%		
GraphicsMagick - Sharpen (Iterations/min)	**41**	40	**41**	**41**	**36**		
Normalized	100%	97.56%	100%	100%	87.8%		
Standard Deviation	0%	0%	0%	0%	0%		
POV-Ray - Total Time	829	883	825	825		**926**	**820**
Normalized	98.91%	92.87%	99.39%	99.39%		88.55%	100%
GraphicsMagick - L.A.T (Iterations/min)	**44**	43	**44**	**44**	**40**		
Normalized	100%	97.73%	100%	100%	90.91%		
Standard Deviation	0%	0%	0%	0%	1.4%		

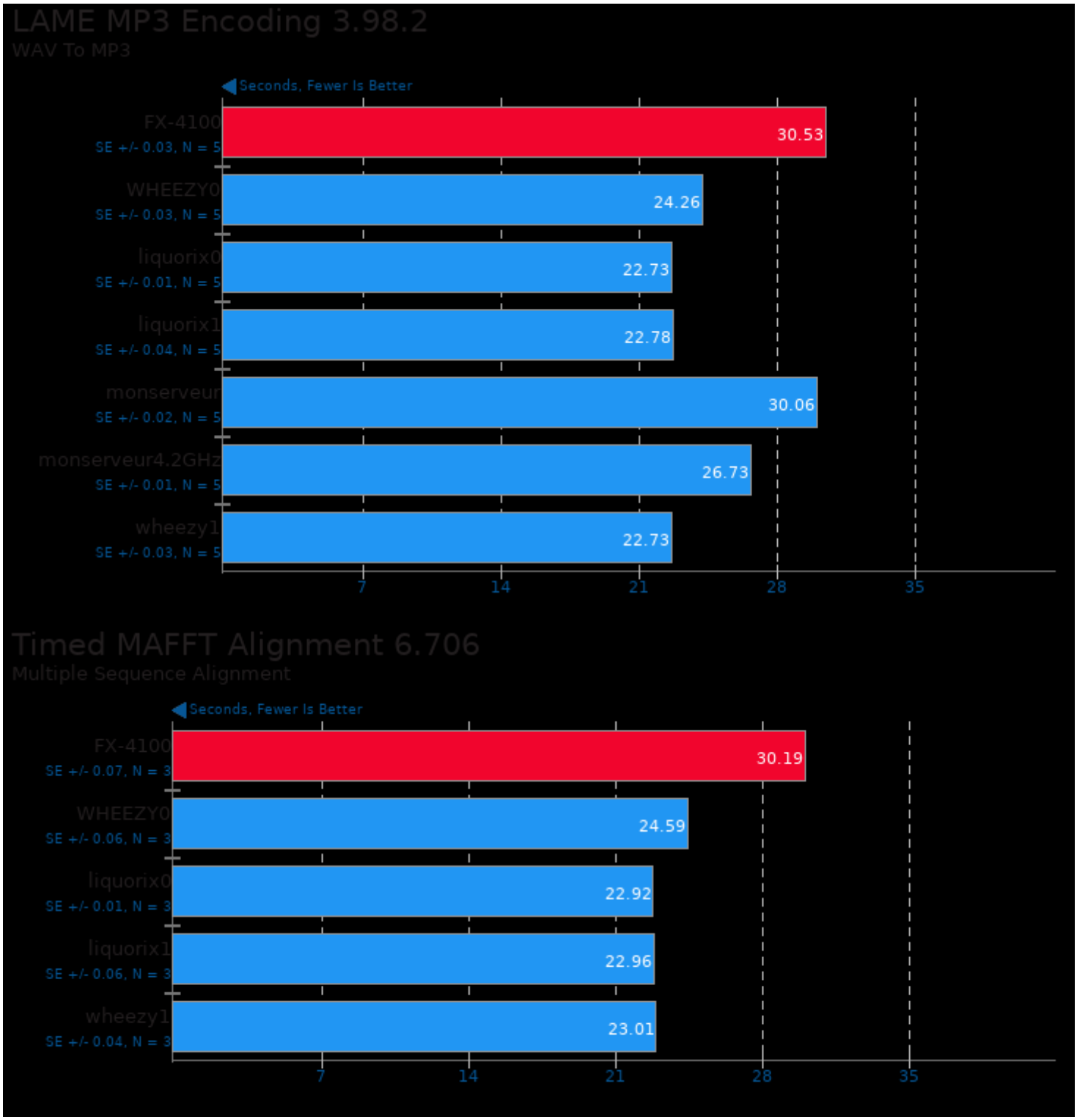
liquorix0


Apache Benchmark 2.2.17
Static Web Page Serving
Requests Per Second, More Is Better
FX-4100
SE +/- 43.60, N = 3
13788.77
WHEEZY0
SE +/- 283.16, N = 3
25247.70
liquorix0
SE +/- 339.31, N = 3
25825.13
liquorix1
SE +/- 276.19, N = 3
25827.79
monserveur
SE +/- 16.83, N = 3
18677.41
monserveur4.2GHz
SE +/- 30.08, N = 3
17244.30
wheezy1
SE +/- 306.84, N = 3
26504.15
6K
12K
18K
24K
30K
C-Ray 1.1
Total Time
Seconds, Fewer Is Better
FX-4100
SE +/- 0.02, N = 3
104.37
WHEEZY0
SE +/- 0.00, N = 3
62.03
liquorix0
SE +/- 0.00, N = 3
62.15
liquorix1
SE +/- 0.08, N = 3
62.28
monserveur
SE +/- 0.01, N = 3
100.55
monserveur4.2GHz
SE +/- 0.04, N = 3
97.54
wheezy1
SE +/- 0.02, N = 3
63.24
20
40
60
80
100

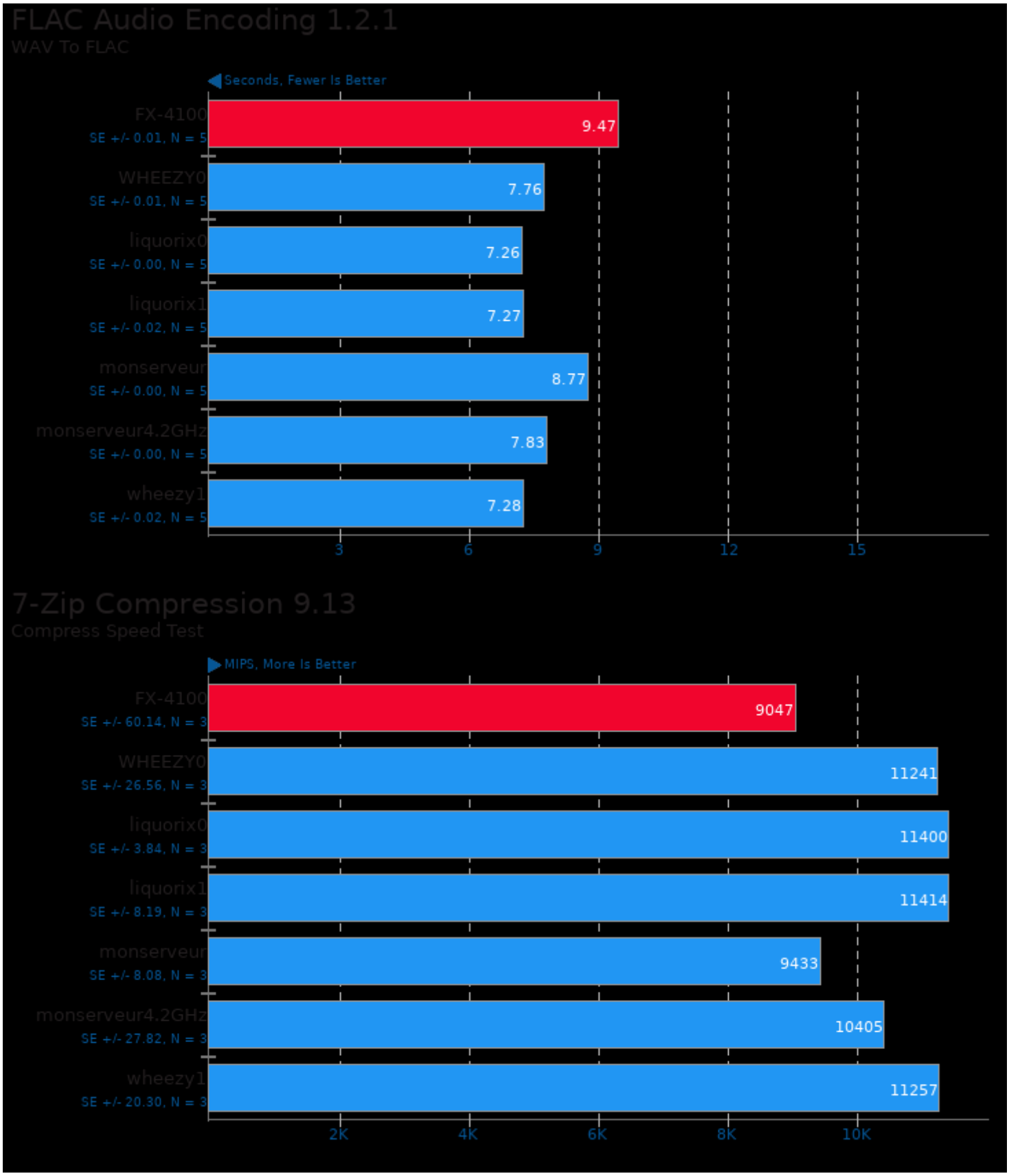
liquorix0


Parallel BZIP2 Compression 1.0.5
256MB File Compression
Seconds, Fewer Is Better
FX-4100
SE +/- 0.06, N = 3
17.49
WHEEZY0
SE +/- 0.03, N = 3
12.48
liquorix0
SE +/- 0.03, N = 3
12.47
liquorix1
SE +/- 0.05, N = 3
12.47
monserveur
SE +/- 0.12, N = 3
15.96
monserveur4.2GHz
SE +/- 0.12, N = 3
15.15
wheezy1
SE +/- 0.03, N = 3
12.32
4
8
12
16
20
x264 2010-11-22
H.264 Video Encoding
Frames Per Second, More Is Better
FX-4100
SE +/- 0.78, N = 3
50.35
WHEEZY0
SE +/- 0.44, N = 3
66.47
liquorix0
SE +/- 0.04, N = 3
69.57
liquorix1
SE +/- 0.65, N = 3
69.07
monserveur4.2GHz
SE +/- 0.39, N = 3
56.24
wheezy1
SE +/- 0.42, N = 3
66.70
15
30
45
60
75

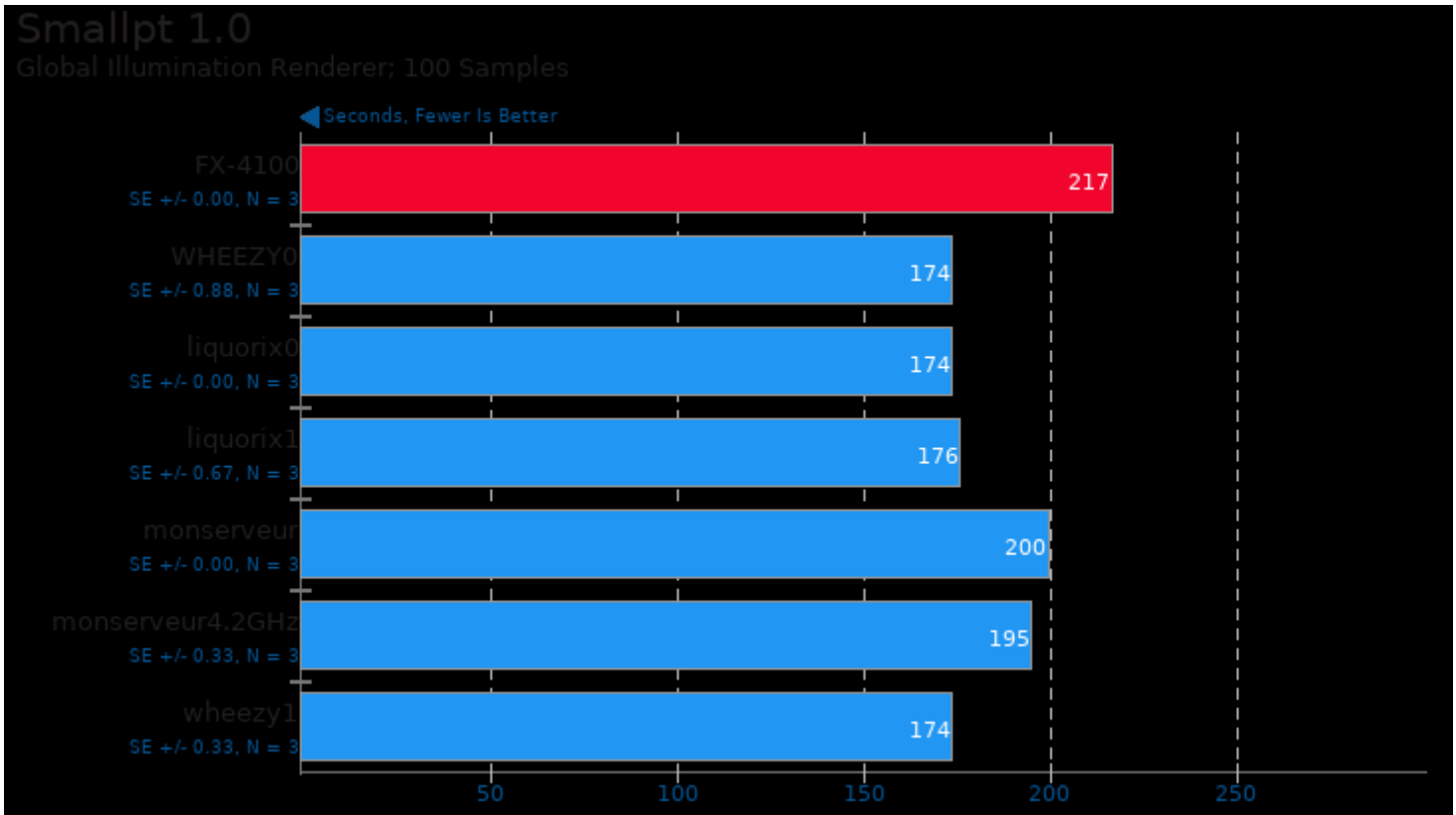
liquorix0

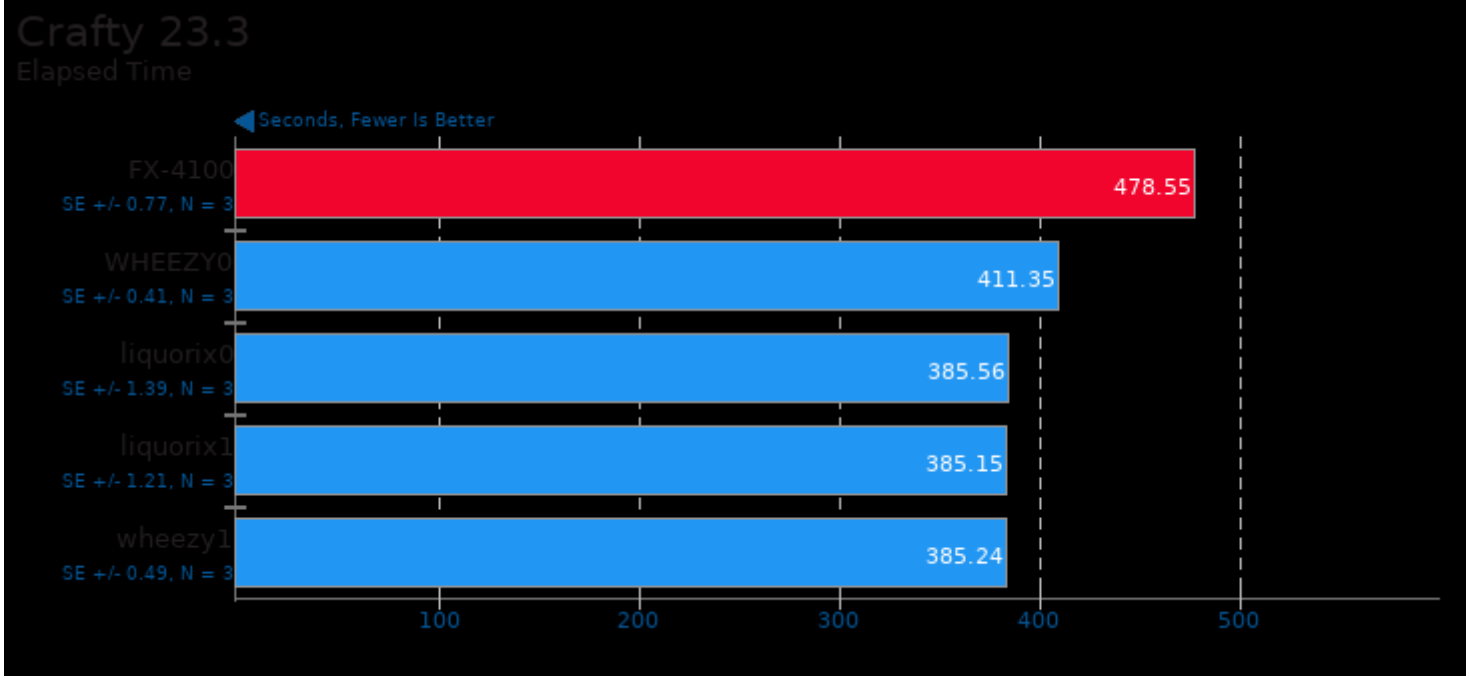

LAME MP3 Encoding 3.98.2
WAV To MP3
Seconds, Fewer Is Better
FX-4100
SE +/- 0.03, N = 5
30.53
WHEEZY0
SE +/- 0.03, N = 5
24.26
liquorix0
SE +/- 0.01, N = 5
22.73
liquorix1
SE +/- 0.04, N = 5
22.78
monserveur
SE +/- 0.02, N = 5
30.06
monserveur4.2GHz
SE +/- 0.01, N = 5
26.73
wheezy1
SE +/- 0.03, N = 5
22.73
7
14
21
28
35
Timed MAFFT Alignment 6.706
Multiple Sequence Alignment
Seconds, Fewer Is Better
FX-4100
SE +/- 0.07, N = 3
30.19
WHEEZY0
SE +/- 0.06, N = 3
24.59
liquorix0
SE +/- 0.01, N = 3
22.92
liquorix1
SE +/- 0.06, N = 3
22.96
wheezy1
SE +/- 0.04, N = 3
23.01
7
14
21
28
35

liquorix0

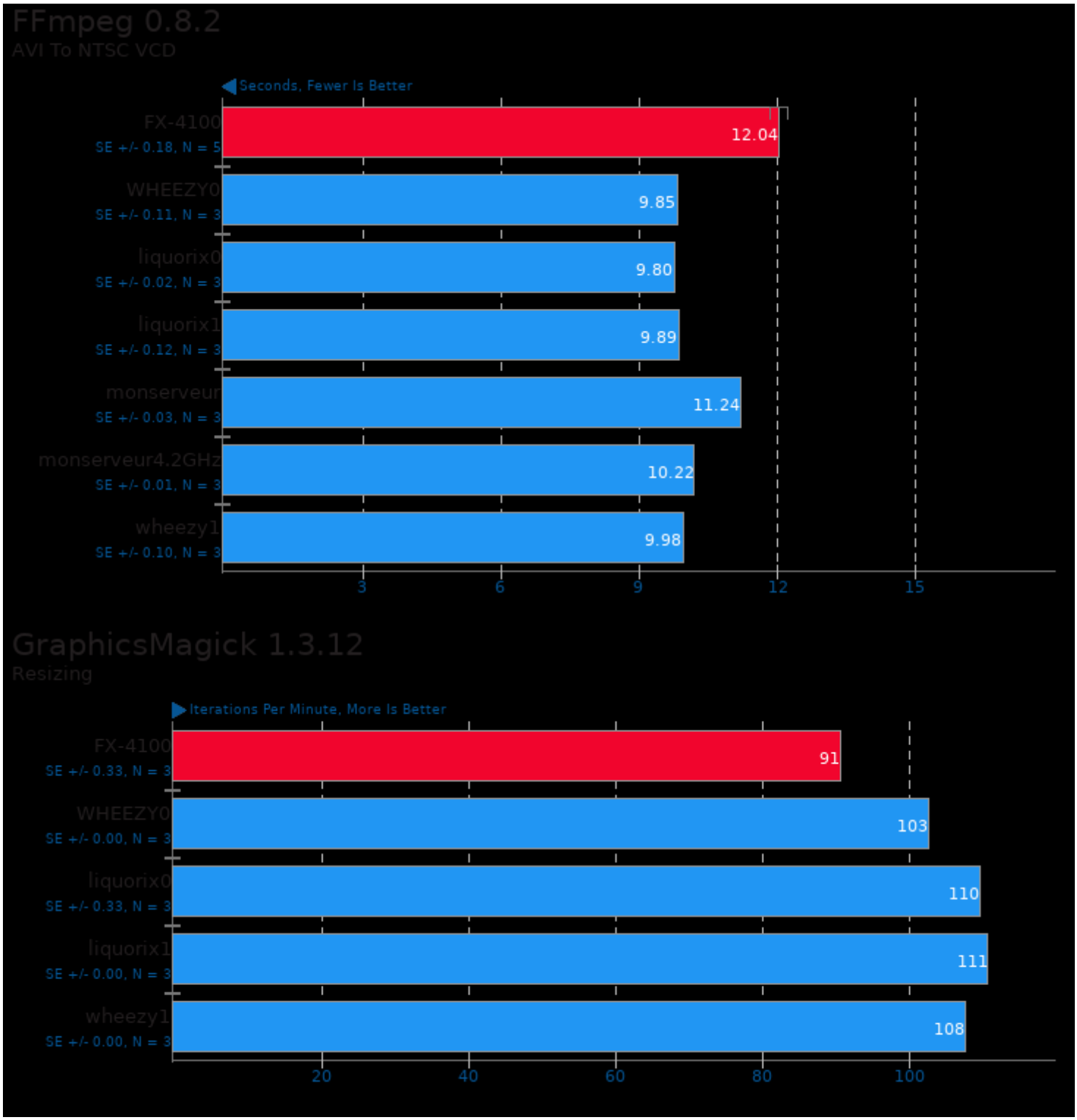

FLAC Audio Encoding 1.2.1
WAV To FLAC
Seconds, Fewer Is Better
FX-4100
SE +/- 0.01, N = 5
9.47
WHEEZY0
SE +/- 0.01, N = 5
7.76
liquorix0
SE +/- 0.00, N = 5
7.26
liquorix1
SE +/- 0.02, N = 5
7.27
monserveur
SE +/- 0.00, N = 5
8.77
monserveur4.2GHz
SE +/- 0.00, N = 5
7.83
wheezy1
SE +/- 0.02, N = 5
7.28
3
6
9
12
15
7-Zip Compression 9.13
Compress Speed Test
MIPS, More Is Better
FX-4100
SE +/- 60.14, N = 3
9047
WHEEZY0
SE +/- 26.56, N = 3
11241
liquorix0
SE +/- 3.84, N = 3
11400
liquorix1
SE +/- 8.19, N = 3
11414
monserveur
SE +/- 8.08, N = 3
9433
monserveur4.2GHz
SE +/- 27.82, N = 3
10405
wheezy1
SE +/- 20.30, N = 3
11257
2K
4K
6K
8K
10K

liquorix0

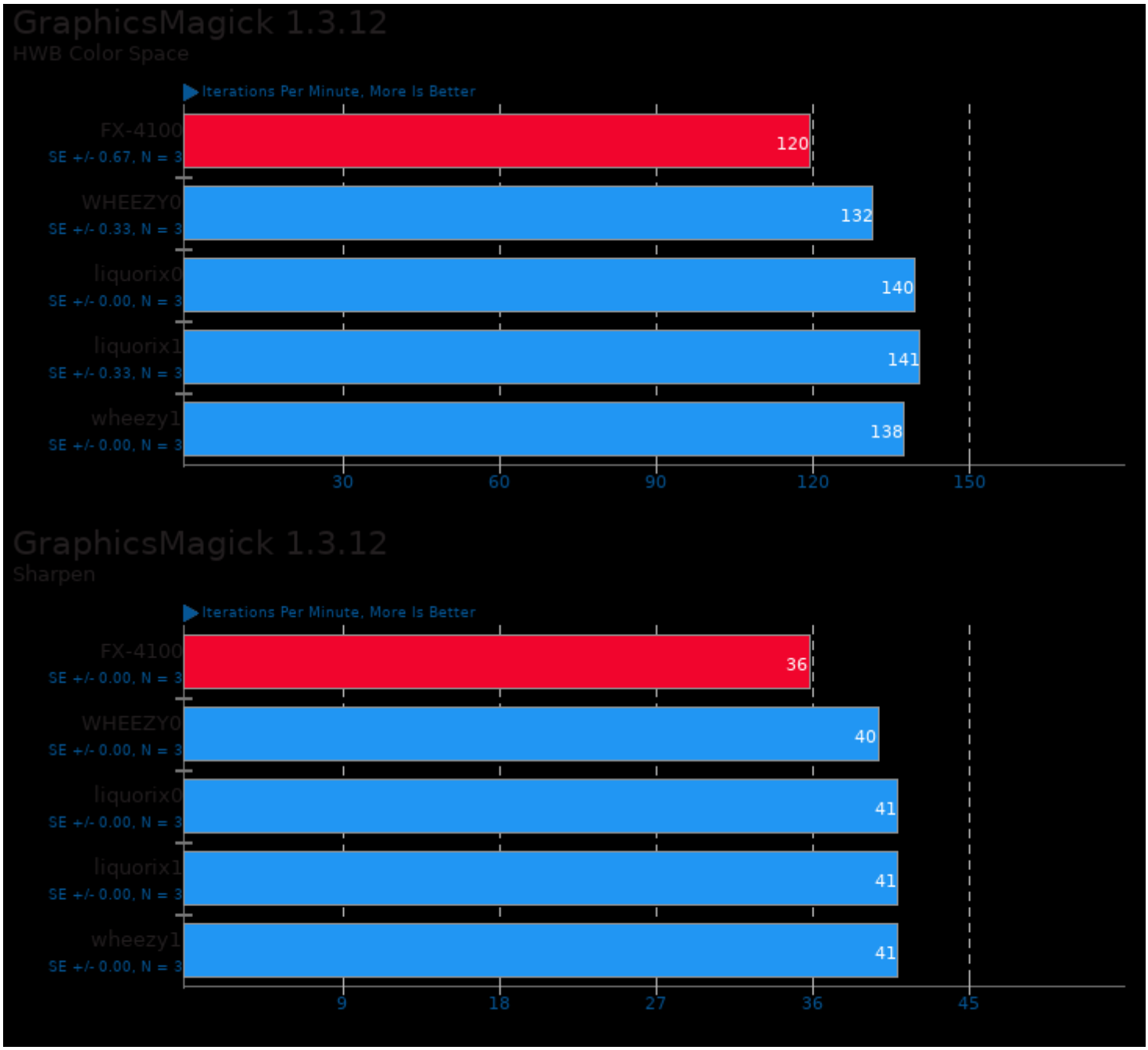

Smallpt 1.0
Global Illumination Renderer; 100 Samples
Seconds, Fewer Is Better
FX-4100
SE +/- 0.00, N = 3
217
WHEEZY0
SE +/- 0.88, N = 3
174
liquorix0
SE +/- 0.00, N = 3
174
liquorix1
SE +/- 0.67, N = 3
176
monserveur
SE +/- 0.00, N = 3
200
monserveur4.2GHz
SE +/- 0.33, N = 3
195
wheezy1
SE +/- 0.33, N = 3
174
50
100
150
200
250


Crafty 23.3
Elapsed Time
Seconds, Fewer Is Better
FX-4100
SE +/- 0.77, N = 3
478.55
WHEEZY0
SE +/- 0.41, N = 3
411.35
liquorix0
SE +/- 1.39, N = 3
385.56
liquorix1
SE +/- 1.21, N = 3
385.15
wheezy1
SE +/- 0.49, N = 3
385.24
100
200
300
400
500

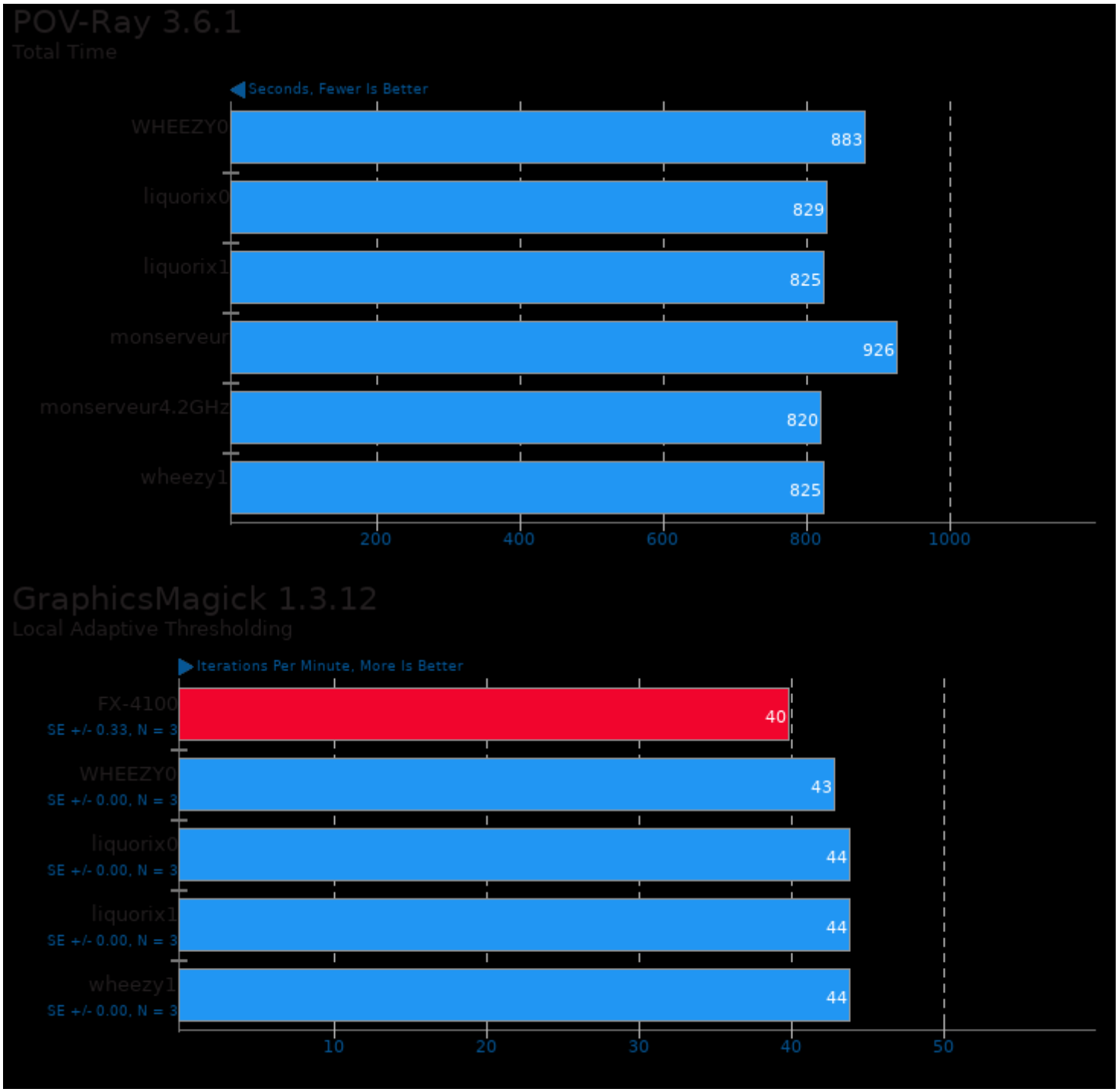
liquorix0


FFmpeg 0.8.2
AVI To NTSC VCD
Seconds, Fewer Is Better
FX-4100
SE +/- 0.18, N = 5
12.04
WHEEZY0
SE +/- 0.11, N = 3
9.85
liquorix0
SE +/- 0.02, N = 3
9.80
liquorix1
SE +/- 0.12, N = 3
9.89
monserveur
SE +/- 0.03, N = 3
11.24
monserveur4.2GHz
SE +/- 0.01, N = 3
10.22
wheezy1
SE +/- 0.10, N = 3
9.98
3
6
9
12
15
GraphicsMagick 1.3.12
Resizing
Iterations Per Minute, More Is Better
FX-4100
SE +/- 0.33, N = 3
91
WHEEZY0
SE +/- 0.00, N = 3
103
liquorix0
SE +/- 0.33, N = 3
110
liquorix1
SE +/- 0.00, N = 3
111
wheezy1
SE +/- 0.00, N = 3
108
20
40
60
80
100

liquorix0

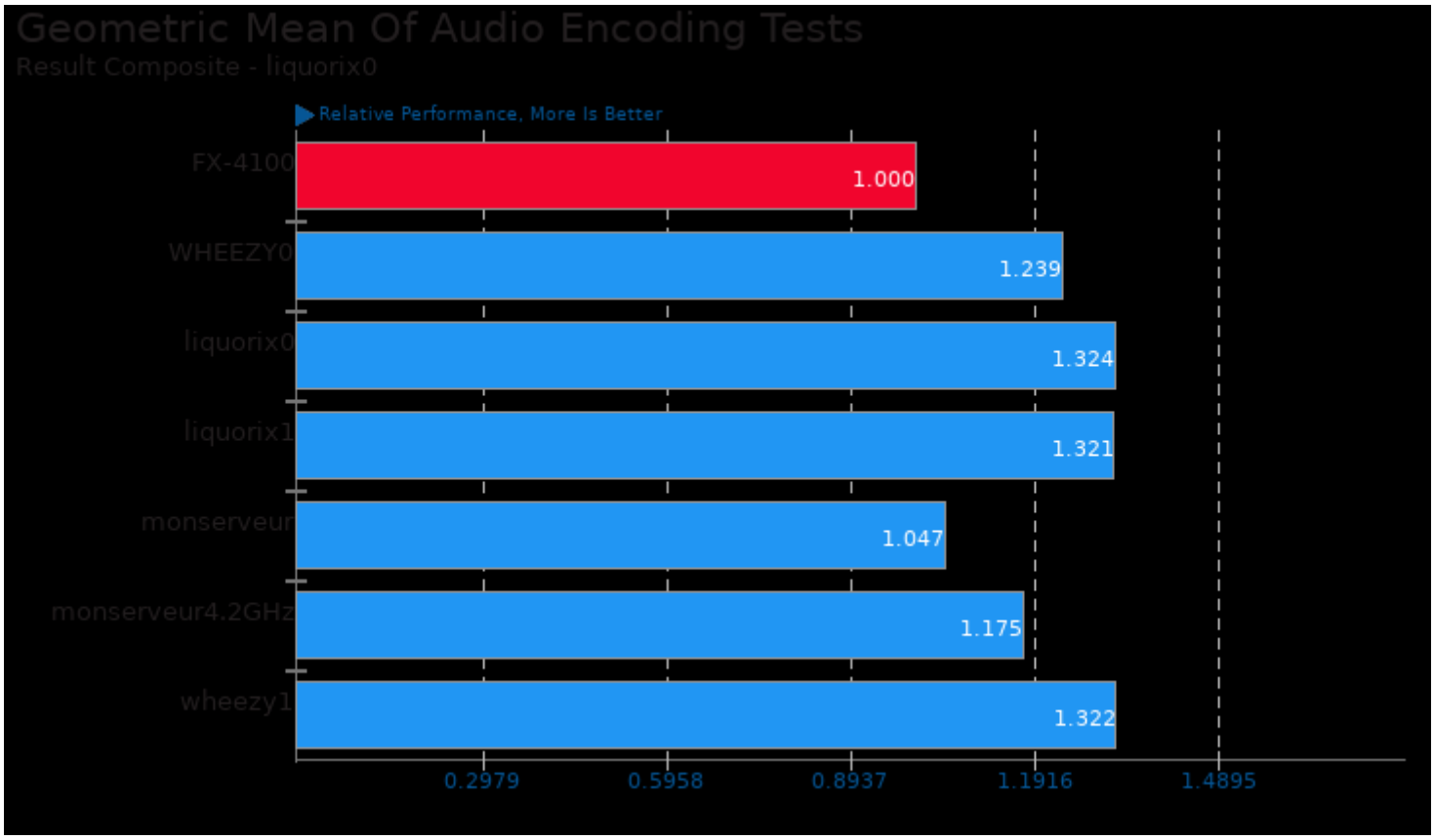

GraphicsMagick 1.3.12
HWB Color Space
Iterations Per Minute, More Is Better
FX-4100
SE +/- 0.67, N = 3
120
WHEEZY0
SE +/- 0.33, N = 3
132
liquorix0
SE +/- 0.00, N = 3
140
liquorix1
SE +/- 0.33, N = 3
141
wheezy1
SE +/- 0.00, N = 3
138
30
60
90
120
150
GraphicsMagick 1.3.12
Sharpen
Iterations Per Minute, More Is Better
FX-4100
SE +/- 0.00, N = 3
36
WHEEZY0
SE +/- 0.00, N = 3
40
liquorix0
SE +/- 0.00, N = 3
41
liquorix1
SE +/- 0.00, N = 3
41
wheezy1
SE +/- 0.00, N = 3
41
9
18
27
36
45

liquorix0

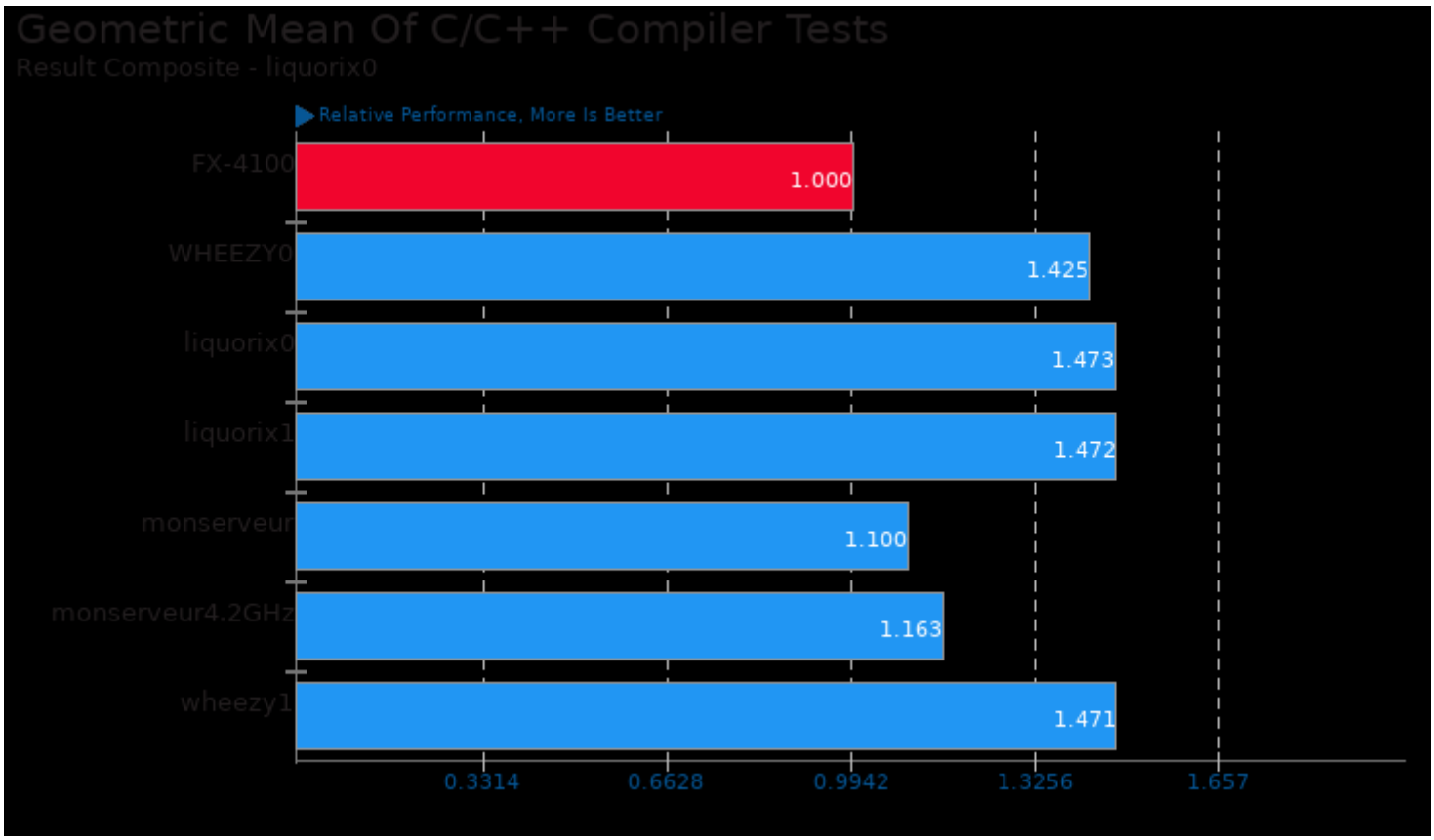

POV-Ray 3.6.1
Total Time
Seconds, Fewer Is Better
WHEEZY0
883
liquorix0
829
liquorix1
825
monserveur
926
monserveur4.2GHz
820
wheezy1
825
200
400
600
800
1000
GraphicsMagick 1.3.12
Local Adaptive Thresholding
Iterations Per Minute, More Is Better
FX-4100
SE +/- 0.33, N = 3
40
WHEEZY0
SE +/- 0.00, N = 3
43
liquorix0
SE +/- 0.00, N = 3
44
liquorix1
SE +/- 0.00, N = 3
44
wheezy1
SE +/- 0.00, N = 3
44
10
20
30
40
50

liquorix0

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

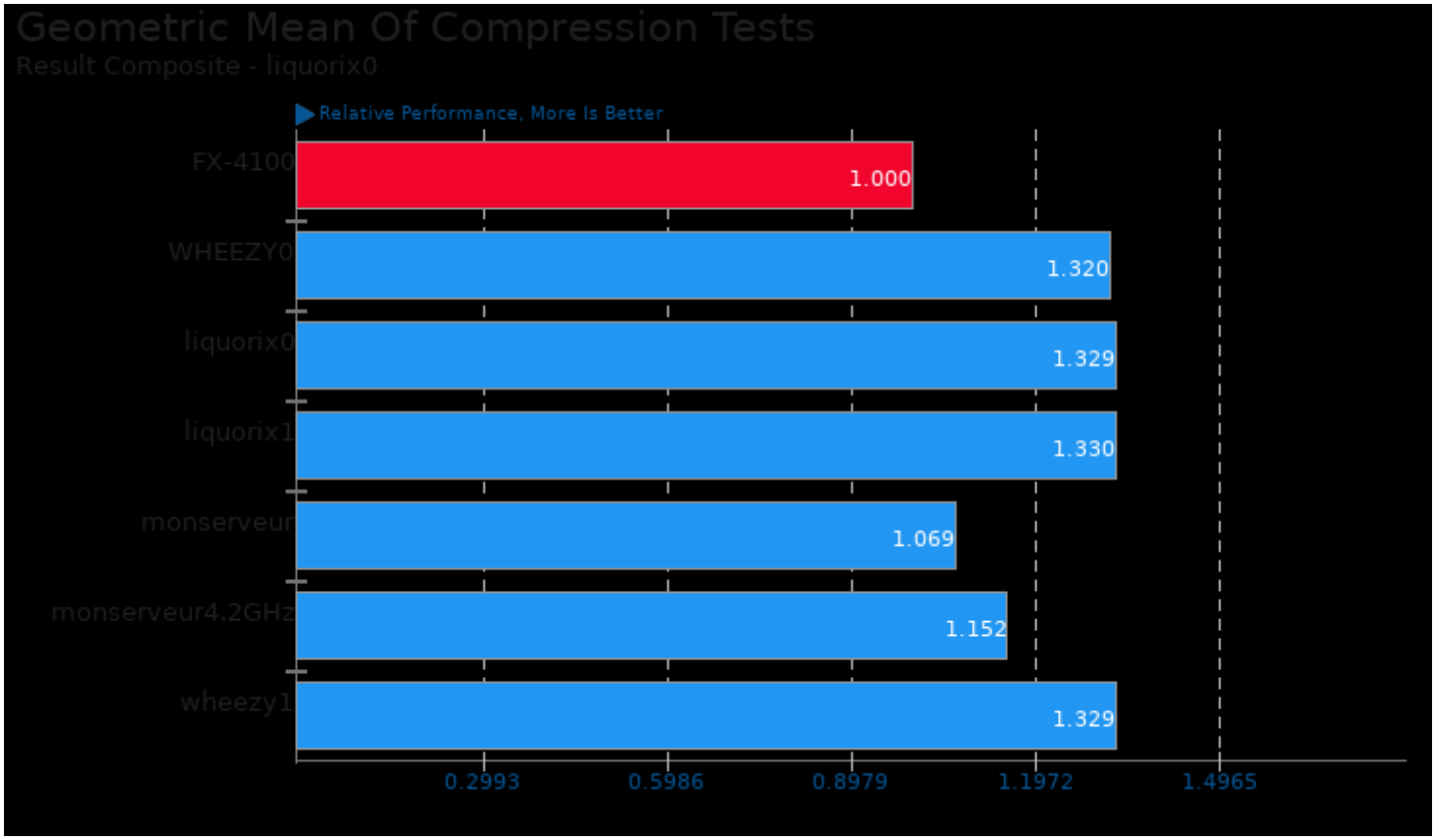


Geometric mean based upon tests: pts/encode-mp3 and pts/encode-flac



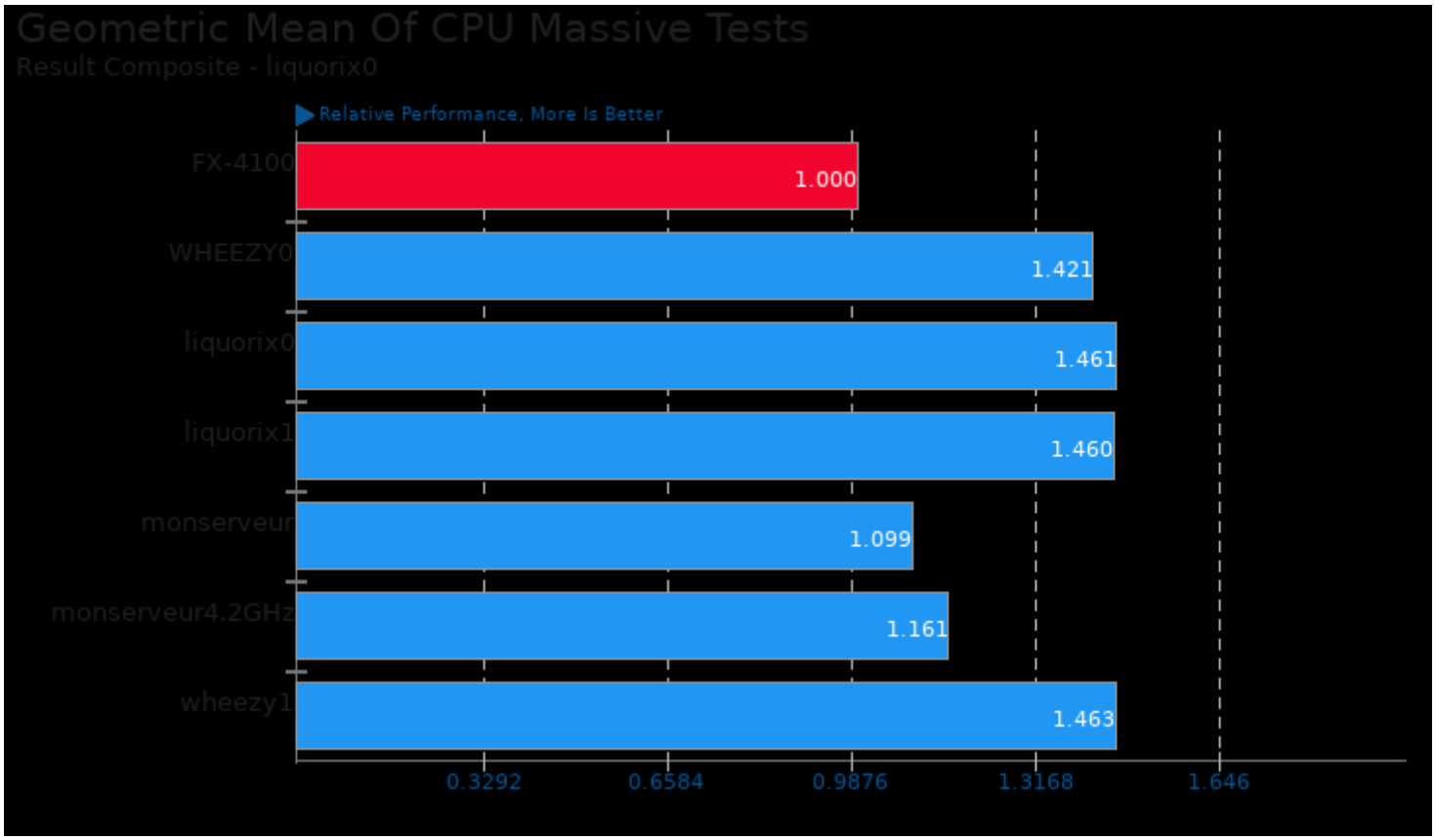
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Geometric mean based upon tests: pts/mafft, pts/graphics-magick, pts/c-ray, pts/compress-7zip, pts/encode-mp3, pts/encode-flac, pts/apache and pts/x264

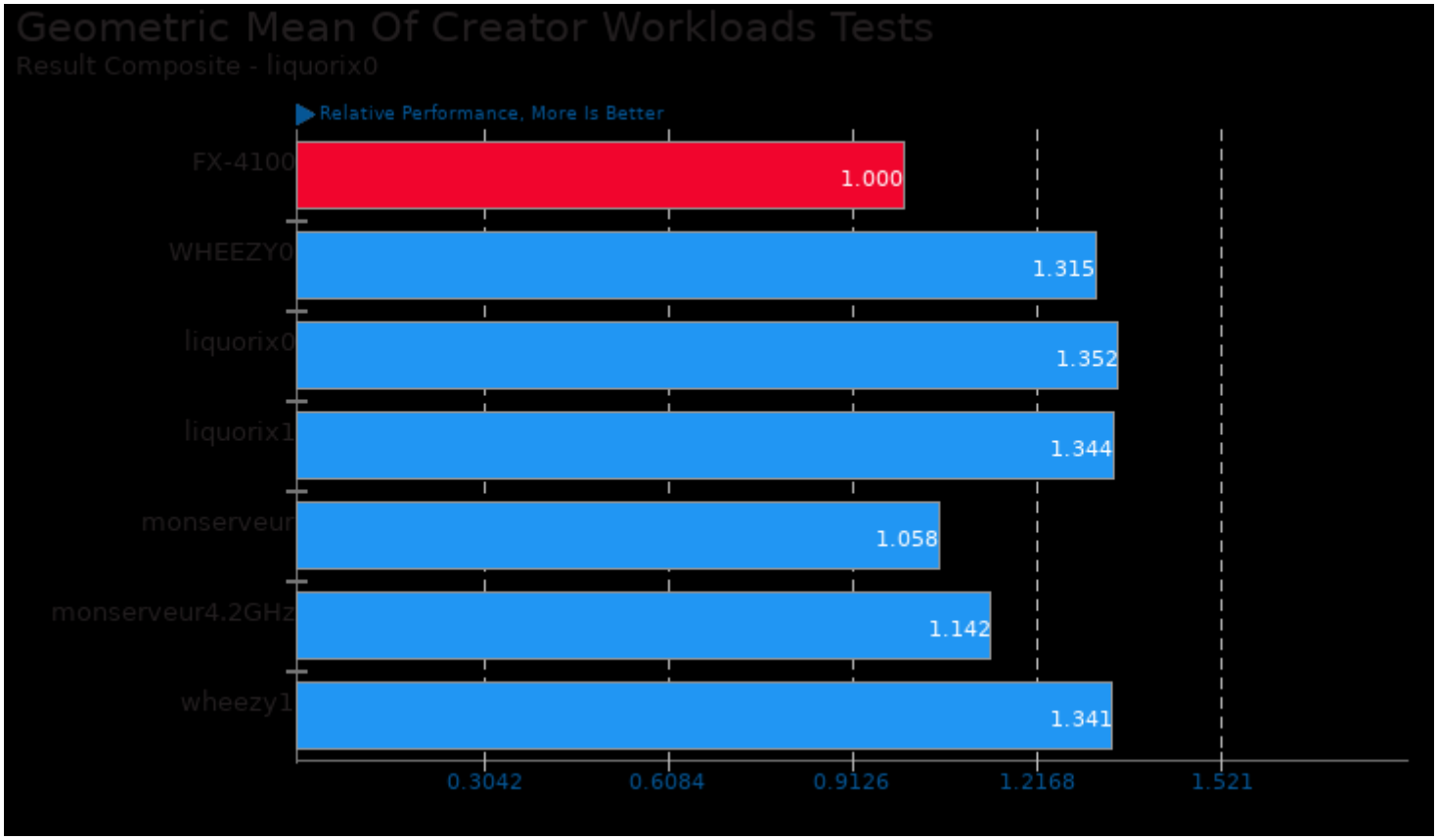


Geometric mean based upon tests: pts/compress-7zip and pts/compress-pbzip2

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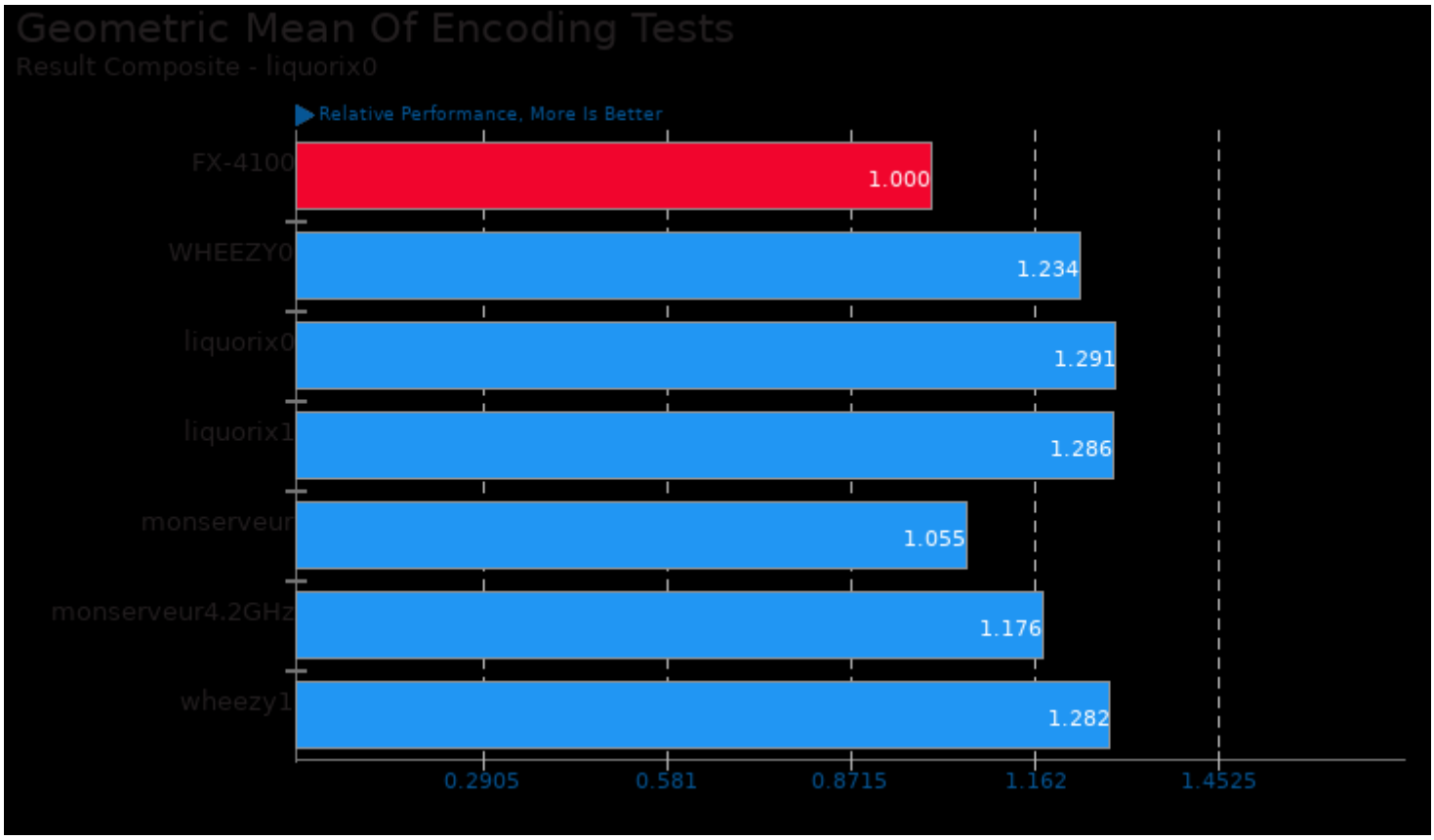
Geometric mean based upon tests: pts/apache, pts/c-ray, pts/compress-7zip, pts/compress-pbzip2, pts/crafty, pts/x264, pts/encode-flac, pts/encode-mp3, pts/graphics-magick, pts/mafft and pts/povray



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

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pts/encode-flac and pts/graphics-magick



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



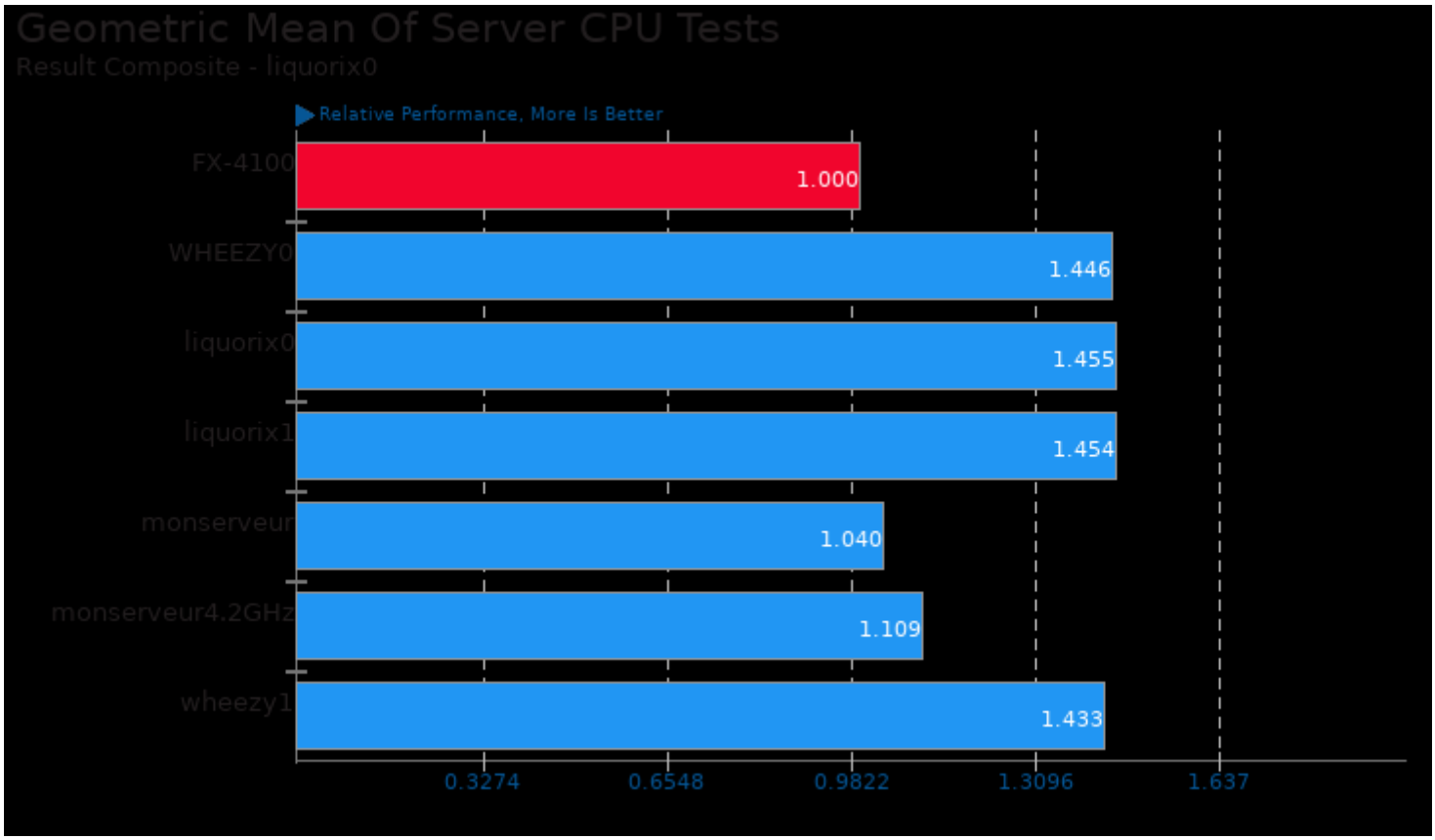
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Geometric mean based upon tests: pts/c-ray, pts/povray, pts/x264, pts/ffmpeg, pts/smallpt, pts/graphics-magick, pts/compress-7zip and pts/compress-pbzip2

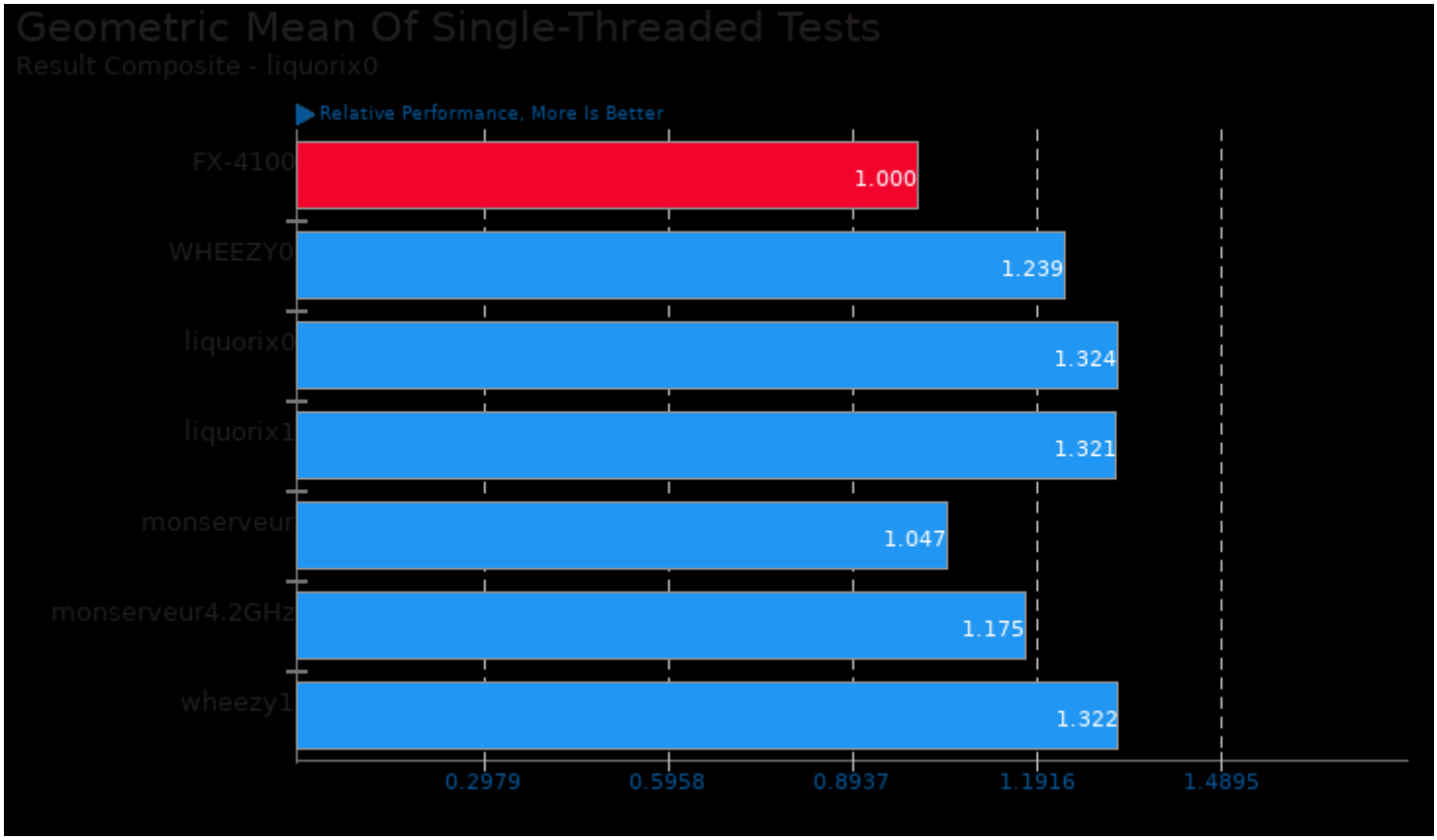


Geometric mean based upon tests: pts/c-ray, pts/povray and pts/smallpt

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Geometric mean based upon tests: pts/x264, pts/compress-7zip, pts/c-ray and pts/povray



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

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