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bulldozer

AMD FX -8150 Eight-Core testing with a ASUS SABERTOOTH 990FX and NVIDIA GeForce 8800 GT 512MB on Gentoo Base release 2.1 via the Phoronix Test Suite.

Test Systems:

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Processor: AMD FX -8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS SABERTOOTH 990FX, Memory: 4096MB, Disk: 300GB Western Digital WDC WD3000GLFS-0 + 500GB MAXTOR STM350032, Graphics: NVIDIA GeForce 8800 GT 512MB (660/950MHz), Network: Realtek RTL8111/8168B

OS: Gentoo Base release 2.1, Kernel: 3.0.6-gentoo (x86_64), Desktop: KDE 4.7.2, Display Server: X Server 1.10.4, Display Driver: NVIDIA 285.05.09, OpenGL: 3.3.0 NVIDIA 285.05.09, Compiler: GCC 4.5.3, File-System: ext4, Screen Resolution: 1680x1050

initial_test

Processor: AMD Athlon 64 X2 4800+ @ 2.40GHz (2 Cores), Motherboard: EPoX NF570 SLI DDR2: MF570 SLI, Chipset: NVIDIA MCP55, Memory: 8192MB, Disk: 4 x 1000GB Western Digital WDC WD1002FBYS-0 + 1000GB Western Digital WDC WD1001FALS-0, Graphics: NVIDIA GeForce 7950 GT 512MB (565/715MHz), Audio: Realtek ALC883

OS: Debian 6.0-updates, Kernel: 3.0.0-1-amd64 (x86_64), Desktop: GNOME 2.30.2, Display Server: X Server 1.11.1, Display Driver: NVIDIA 275.28, OpenGL: 2.1.2 NVIDIA 275.28, Compiler: GCC 4.6.1, File-System: ext4, Screen Resolution: 1920x1080

System Notes: AMD CnQ was enabled.

	bulldozer	initial_test
NAS Parallel Benchmarks - LU.A (Mop/s)	**11771**	**1572**
Normalized	100%	13.36%
Standard Deviation	0.7%	0.1%
C-Ray - Total Time (sec)	**51.07**	**346.67**
Normalized	100%	14.73%
Standard Deviation	0.1%	0.1%
Smallpt - G.I.R.1.S (sec)	**104**	**603**
Normalized	100%	17.25%
Standard Deviation	0.6%	0.5%
7-Zip Compression - C.S.T (MIPS)	**18209**	**3208**
Normalized	100%	17.62%
Standard Deviation	0.3%	4%
Parallel BZIP2 Compression - 2.F.C (sec)	**8.72**	**46.43**
Normalized	100%	18.78%
Standard Deviation	1.3%	1%
Tachyon - Total Time (sec)	**21.11**	**100.87**
Normalized	100%	20.93%
Standard Deviation	0.6%	0.7%
NAS Parallel Benchmarks - EP.B (Mop/s)	**151.52**	**33.65**
Normalized	100%	22.21%
Standard Deviation	2%	0.3%
NAS Parallel Benchmarks - UA.A (Mop/s)	**39.95**	**9.01**
Normalized	100%	22.55%
Standard Deviation	1.2%	0%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	**116.06**	**26.95**
Normalized	100%	23.22%
Standard Deviation	0.9%	0.1%
GraphicsMagick - L.A.T (Iterations/min)	**65**	**18**
Normalized	100%	27.69%
Standard Deviation	0.9%	0%
NAS Parallel Benchmarks - MG.B (Mop/s)	**5672**	**1634**
Normalized	100%	28.81%
Standard Deviation	0.5%	0.3%
John The Ripper - Traditional DES (Real C/S)	**3918000**	**1159000**
Normalized	100%	29.58%
Standard Deviation	0.8%	0.7%

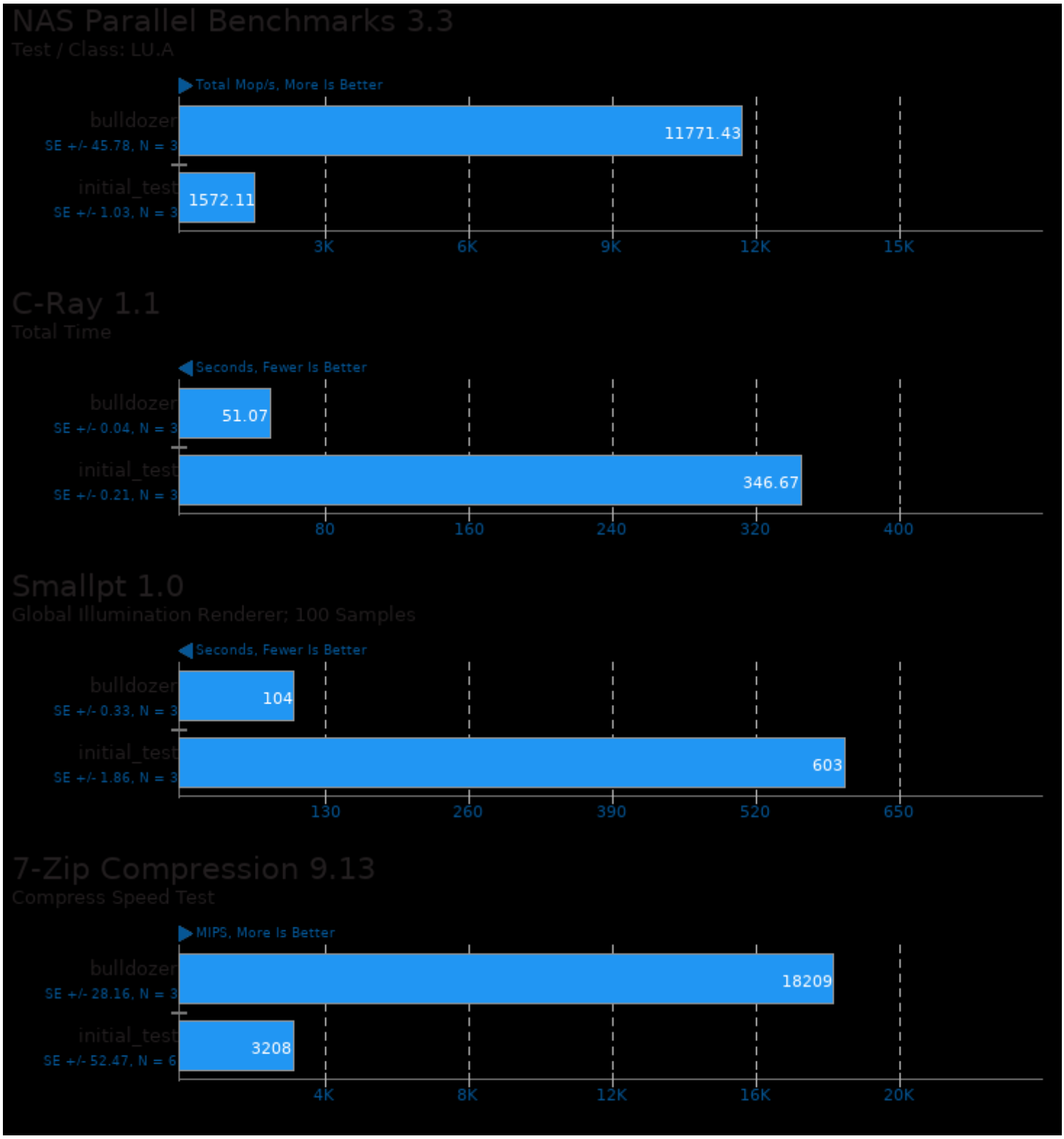
bulldozer

FFmpeg - AVI To NTSC VCD (sec)	**9.98**	**27.86**
Normalized	100%	35.82%
Standard Deviation	1.2%	0.3%
Apache Benchmark - S.W.P.S (Reqs/sec)	**17850**	**7087**
Normalized	100%	39.71%
Standard Deviation	0.5%	0.4%
Himeno Benchmark - P.P.S (MFLOPS)	**237.28**	**95.03**
Normalized	100%	40.05%
Standard Deviation	0.2%	0.2%
Stream - Copy (MB/s)	**12128**	**4944**
Normalized	100%	40.76%
Standard Deviation	0.5%	0.4%
Stream - Scale (MB/s)	**11667**	**4859**
Normalized	100%	41.65%
Standard Deviation	0.9%	0.3%
Stream - Triad (MB/s)	**12190**	**5165**
Normalized	100%	42.37%
Standard Deviation	0.2%	0.2%
Stream - Add (MB/s)	**11774**	**5139**
Normalized	100%	43.65%
Standard Deviation	0.1%	0.2%
World of Padman - 1680 x 1050 (FPS)	**431.10**	**202.90**
Normalized	100%	47.07%
Standard Deviation	0.7%	2.7%
GraphicsMagick - Resizing (Iterations/min)	**120**	**60**
Normalized	100%	50%
Standard Deviation	0%	0%
Crafty - Elapsed Time (sec)	**426.11**	**823.17**
Normalized	100%	51.76%
Standard Deviation	0.8%	3.9%
TSCP - A.C.P (Nodes/s)	**322772**	**168681**
Normalized	100%	52.26%
Standard Deviation	0.1%	0.1%
GraphicsMagick - HWB Color Space (Iterations/min)	**141**	**76**
Normalized	100%	53.9%
Standard Deviation	0.8%	0.8%
GraphicsMagick - Sharpen (Iterations/min)	**61**	**33**
Normalized	100%	54.1%
Standard Deviation	0%	0%
LAME MP3 Encoding - WAV To MP3 (sec)	**26.74**	**49.15**
Normalized	100%	54.4%
Standard Deviation	0.6%	0.4%
Timed MAFFT Alignment - M.S.A (sec)	**26.37**	**47.48**
Normalized	100%	55.54%
Standard Deviation	0.2%	0.2%
NAS Parallel Benchmarks - IS.C (Mop/s)	**111.59**	**64.60**
Normalized	100%	57.89%
Standard Deviation	0%	0.3%
OpenSSL - R.4.b.P (Signs/sec)	**68.68**	**45.63**
Normalized	100%	66.44%
Standard Deviation	0.9%	0.3%
FLAC Audio Encoding - WAV To FLAC (sec)	**8.25**	**11.97**
Normalized	100%	68.92%
Standard Deviation	0.2%	0.5%
John The Ripper - Blowfish (Real C/S)	**954**	**742**

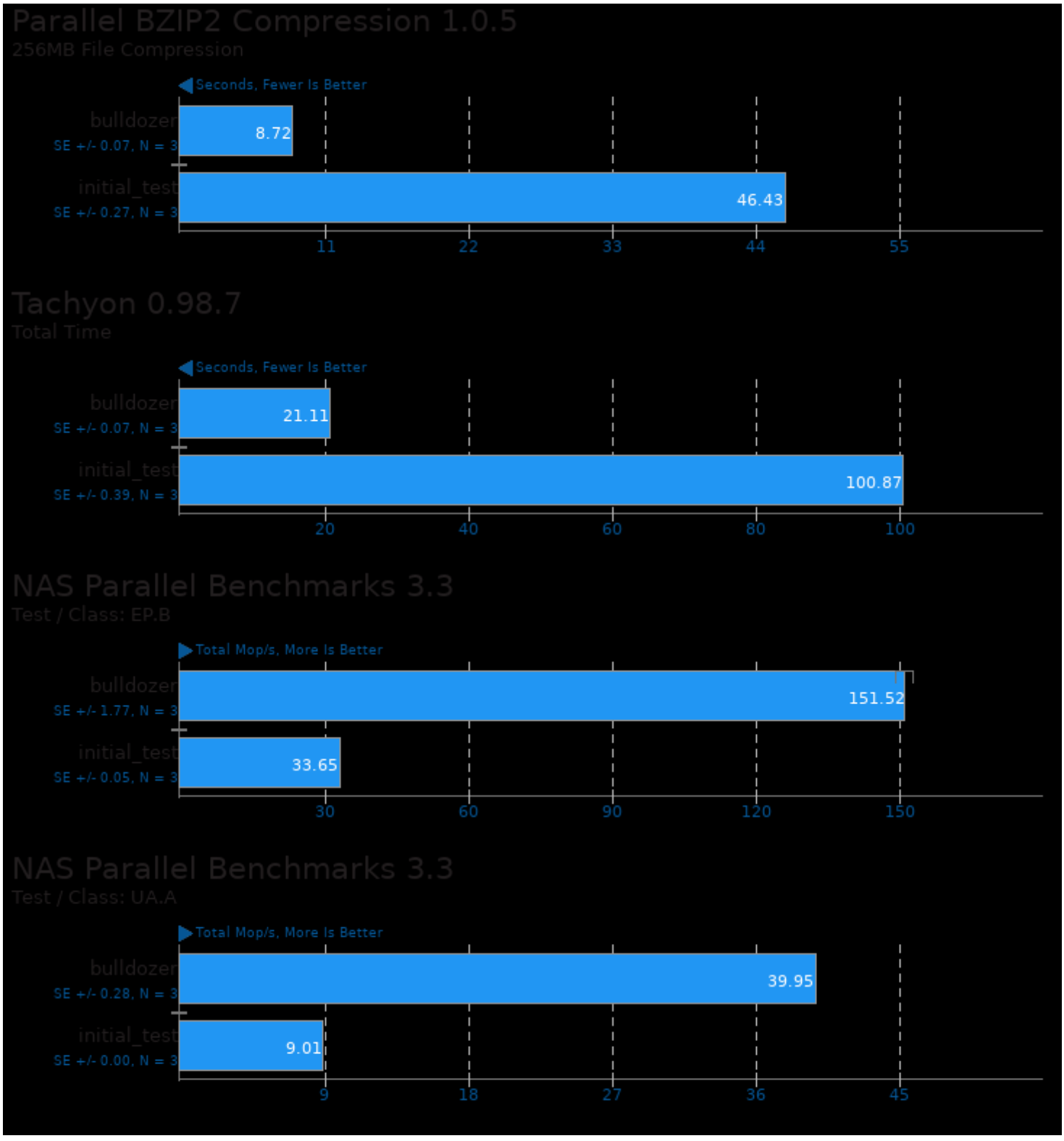
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Normalized	100%	77.78%
Standard Deviation	0.2%	0.2%
PostgreSQL pgbench - T.B.T.P.S (TPS)	**370.12**	**334.85**
Normalized	100%	90.47%
Standard Deviation	0.1%	1.4%
Gcrypt Library - C.E.C (us)	2807	
Standard Deviation	1%	
ET: Quake Wars Demo - 1680 x 1050 (FPS)	**71.75**	**51.93**
Normalized	100%	72.38%
Standard Deviation	40.8%	27.3%

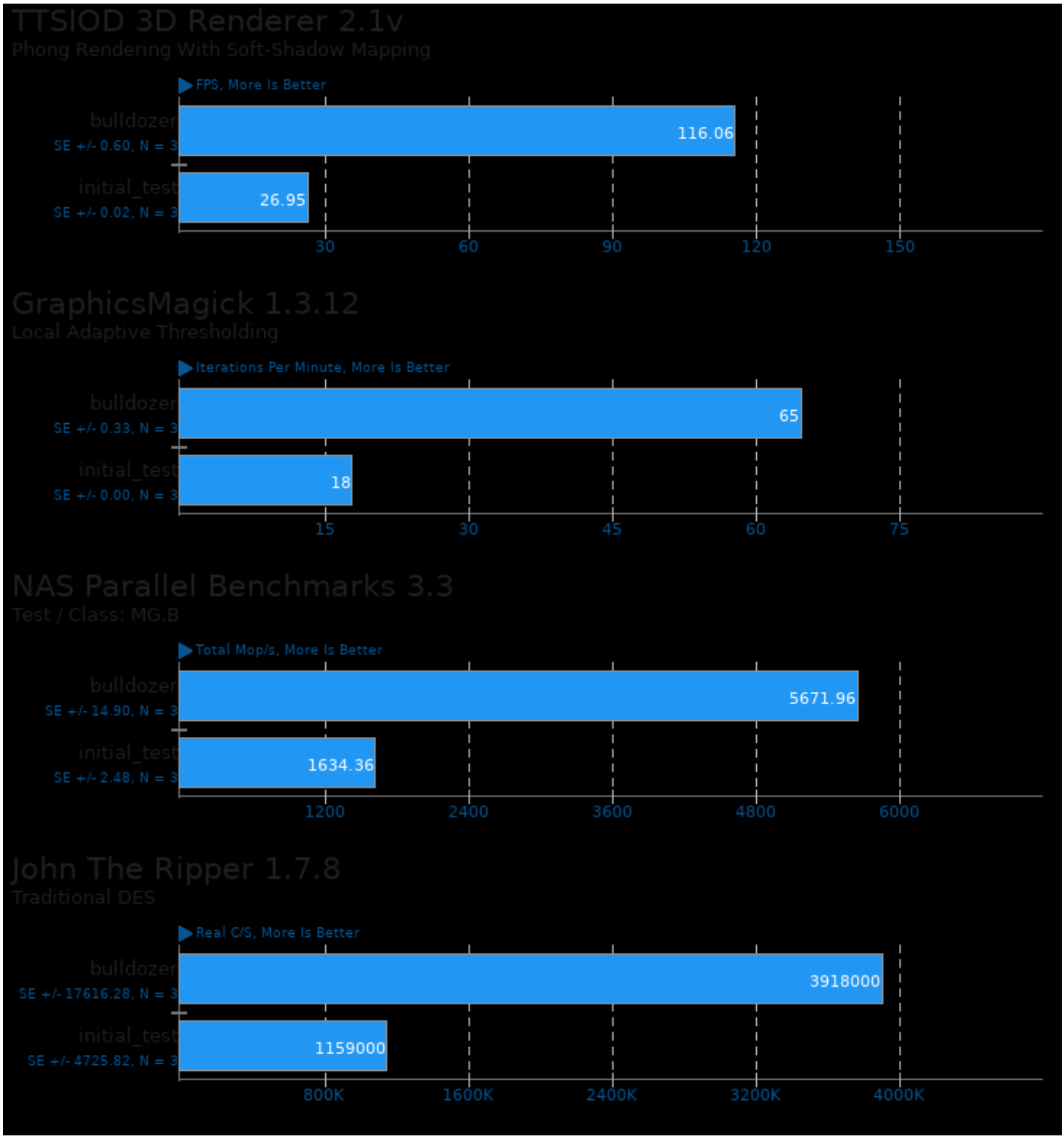
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NAS Parallel Benchmarks 3.3
Test / Class: LU.A
Total Mop/s, More Is Better
bulldozer
SE +/- 45.78, N = 3
11771.43
initial_test
SE +/- 1.03, N = 3
1572.11
3K
6K
9K
12K
15K
C-Ray 1.1
Total Time
Seconds, Fewer Is Better
bulldozer
SE +/- 0.04, N = 3
51.07
initial_test
SE +/- 0.21, N = 3
346.67
80
160
240
320
400
Smallpt 1.0
Global Illumination Renderer; 100 Samples
Seconds, Fewer Is Better
bulldozer
SE +/- 0.33, N = 3
104
initial_test
SE +/- 1.86, N = 3
603
130
260
390
520
650
7-Zip Compression 9.13
Compress Speed Test
MIPS, More Is Better
bulldozer
SE +/- 28.16, N = 3
18209
initial_test
SE +/- 52.47, N = 6
3208
4K
8K
12K
16K
20K

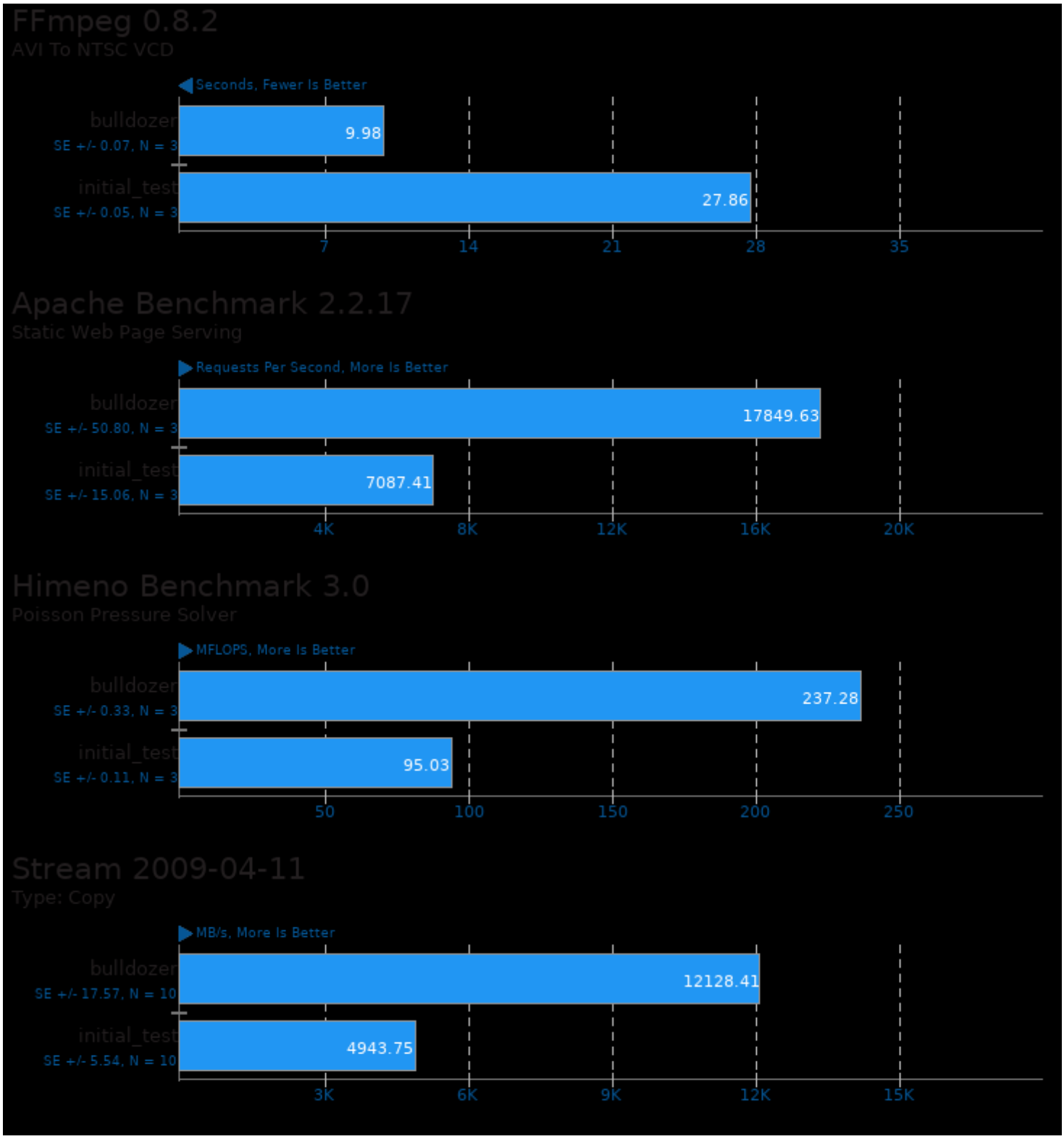
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Parallel BZIP2 Compression 1.0.5
256MB File Compression
Seconds, Fewer Is Better
bulldozer
SE +/- 0.07, N = 3
8.72
initial_test
SE +/- 0.27, N = 3
46.43
11
22
33
44
55
Tachyon 0.98.7
Total Time
Seconds, Fewer Is Better
bulldozer
SE +/- 0.07, N = 3
21.11
initial_test
SE +/- 0.39, N = 3
100.87
20
40
60
80
100
NAS Parallel Benchmarks 3.3
Test / Class: EP.B
Total Mop/s, More Is Better
bulldozer
SE +/- 1.77, N = 3
151.52
initial_test
SE +/- 0.05, N = 3
33.65
30
60
90
120
150
NAS Parallel Benchmarks 3.3
Test / Class: UA.A
Total Mop/s, More Is Better
bulldozer
SE +/- 0.28, N = 3
39.95
initial_test
SE +/- 0.00, N = 3
9.01
9
18
27
36
45

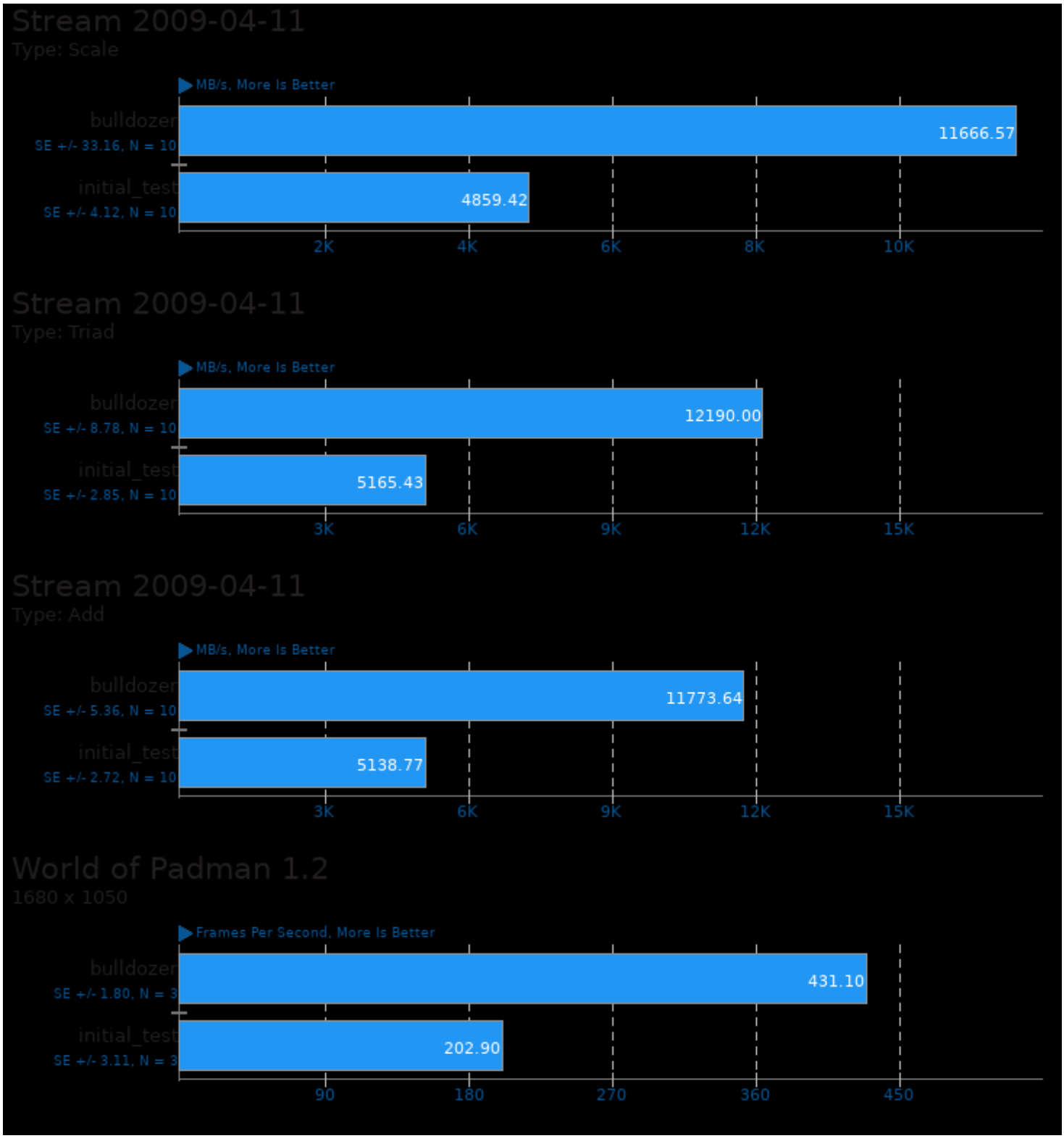
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TTSIOD 3D Renderer 2.1v
Phong Rendering With Soft-Shadow Mapping
FPS, More Is Better
bulldozer
SE +/- 0.60, N = 3
116.06
initial_test
SE +/- 0.02, N = 3
26.95
30
60
90
120
150
GraphicsMagick 1.3.12
Local Adaptive Thresholding
Iterations Per Minute, More Is Better
bulldozer
SE +/- 0.33, N = 3
65
initial_test
SE +/- 0.00, N = 3
18
15
30
45
60
75
NAS Parallel Benchmarks 3.3
Test / Class: MG.B
Total Mop/s, More Is Better
bulldozer
SE +/- 14.90, N = 3
5671.96
initial_test
SE +/- 2.48, N = 3
1634.36
1200
2400
3600
4800
6000
John The Ripper 1.7.8
Traditional DES
Real C/S, More Is Better
bulldozer
SE +/- 17616.28, N = 3
3918000
initial_test
SE +/- 4725.82, N = 3
1159000
800K
1600K
2400K
3200K
4000K

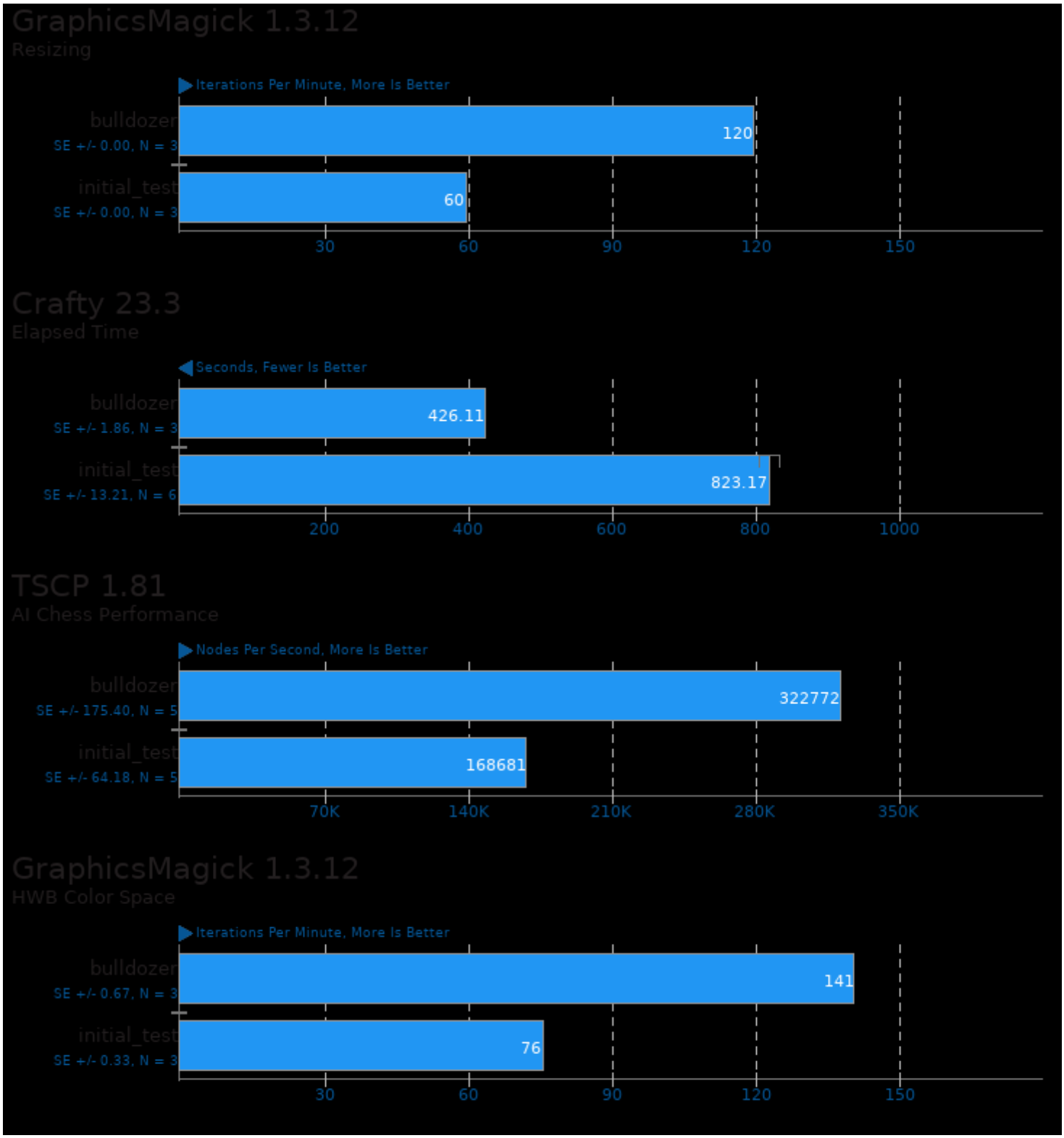
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FFmpeg 0.8.2
AVI To NTSC VCD
Seconds, Fewer Is Better
bulldozer
SE +/- 0.07, N = 3
9.98
initial_test
SE +/- 0.05, N = 3
27.86
7
14
21
28
35
Apache Benchmark 2.2.17
Static Web Page Serving
Requests Per Second, More Is Better
bulldozer
SE +/- 50.80, N = 3
17849.63
initial_test
SE +/- 15.06, N = 3
7087.41
4K
8K
12K
16K
20K
Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
bulldozer
SE +/- 0.33, N = 3
237.28
initial_test
SE +/- 0.11, N = 3
95.03
50
100
150
200
250
Stream 2009-04-11
Type: Copy
MB/s, More Is Better
bulldozer
SE +/- 17.57, N = 10
12128.41
initial_test
SE +/- 5.54, N = 10
4943.75
3K
6K
9K
12K
15K

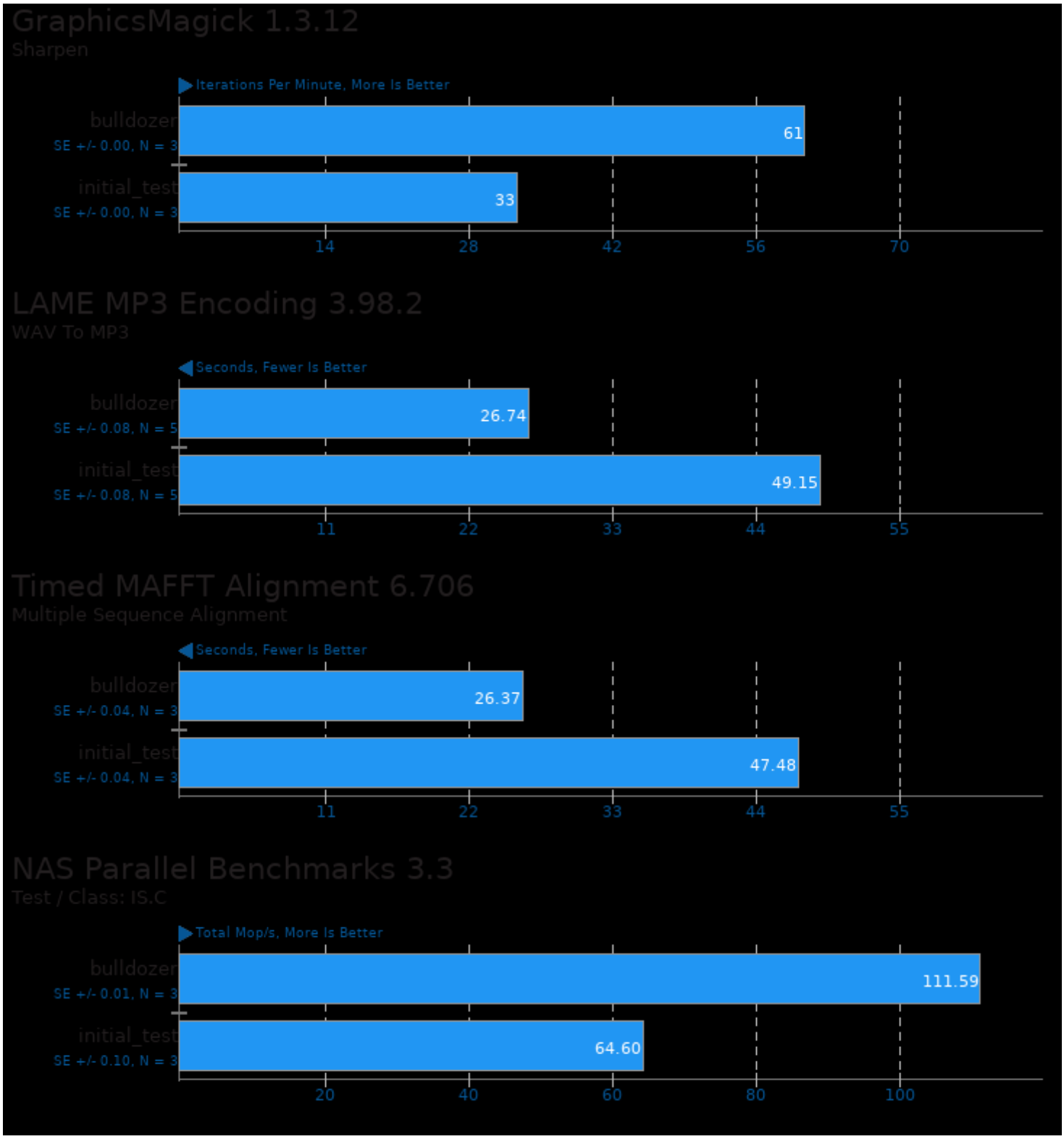
bulldozer


Stream 2009-04-11
Type: Scale
MB/s, More Is Better
bulldozer
SE +/- 33.16, N = 10
11666.57
initial_test
SE +/- 4.12, N = 10
4859.42
2K
4K
6K
8K
10K
Stream 2009-04-11
Type: Triad
MB/s, More Is Better
bulldozer
SE +/- 8.78, N = 10
12190.00
initial_test
SE +/- 2.85, N = 10
5165.43
3K
6K
9K
12K
15K
Stream 2009-04-11
Type: Add
MB/s, More Is Better
bulldozer
SE +/- 5.36, N = 10
11773.64
initial_test
SE +/- 2.72, N = 10
5138.77
3K
6K
9K
12K
15K
World of Padman 1.2
1680 x 1050
Frames Per Second, More Is Better
bulldozer
SE +/- 1.80, N = 3
431.10
initial_test
SE +/- 3.11, N = 3
202.90
90
180
270
360
450

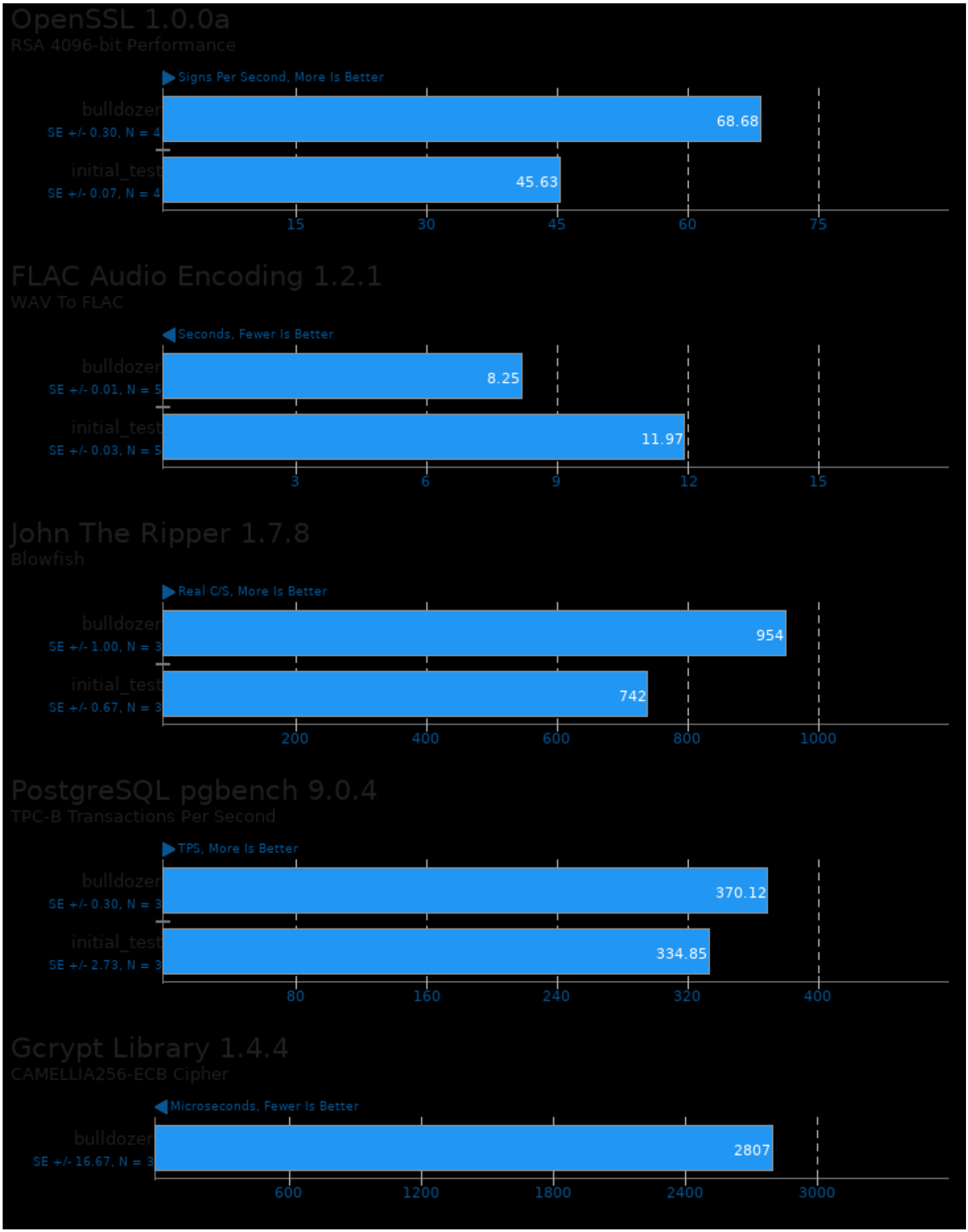
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GraphicsMagick 1.3.12
Resizing
Iterations Per Minute, More Is Better
bulldozer
SE +/- 0.00, N = 3
120
initial_test
SE +/- 0.00, N = 3
60
30
60
90
120
150
Crafty 23.3
Elapsed Time
Seconds, Fewer Is Better
bulldozer
SE +/- 1.86, N = 3
426.11
initial_test
SE +/- 13.21, N = 6
823.17
200
400
600
800
1000
TSCP 1.81
AI Chess Performance
Nodes Per Second, More Is Better
bulldozer
SE +/- 175.40, N = 5
322772
initial_test
SE +/- 64.18, N = 5
168681
70K
140K
210K
280K
350K
GraphicsMagick 1.3.12
HWB Color Space
Iterations Per Minute, More Is Better
bulldozer
SE +/- 0.67, N = 3
141
initial_test
SE +/- 0.33, N = 3
76
30
60
90
120
150

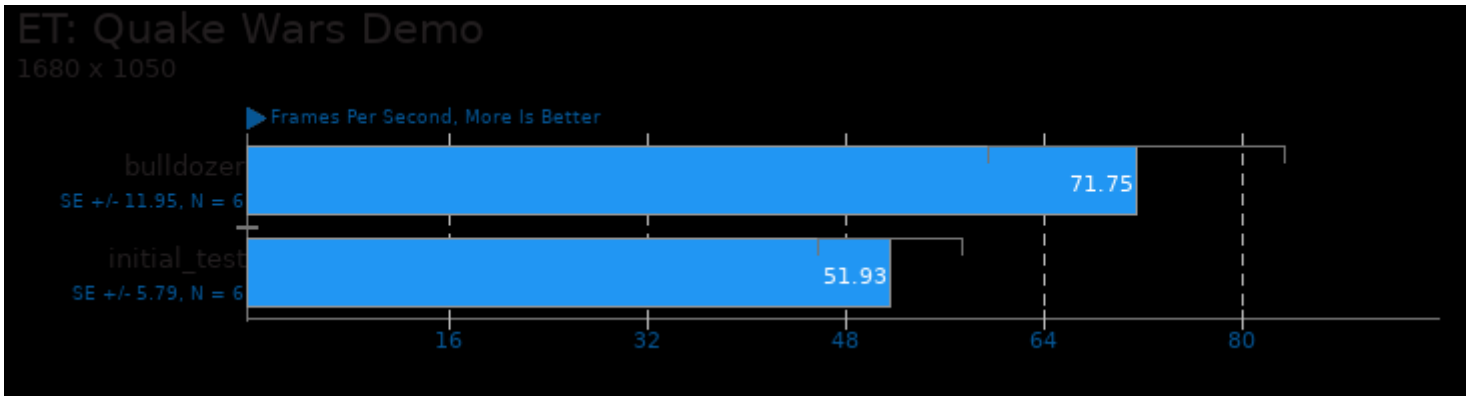
bulldozer


GraphicsMagick 1.3.12
Sharpen
Iterations Per Minute, More Is Better
bulldozer
SE +/- 0.00, N = 3
61
initial_test
SE +/- 0.00, N = 3
33
14
28
42
56
70
LAME MP3 Encoding 3.98.2
WAV To MP3
Seconds, Fewer Is Better
bulldozer
SE +/- 0.08, N = 5
26.74
initial_test
SE +/- 0.08, N = 5
49.15
11
22
33
44
55
Timed MAFFT Alignment 6.706
Multiple Sequence Alignment
Seconds, Fewer Is Better
bulldozer
SE +/- 0.04, N = 3
26.37
initial_test
SE +/- 0.04, N = 3
47.48
11
22
33
44
55
NAS Parallel Benchmarks 3.3
Test / Class: IS.C
Total Mop/s, More Is Better
bulldozer
SE +/- 0.01, N = 3
111.59
initial_test
SE +/- 0.10, N = 3
64.60
20
40
60
80
100

bulldozer

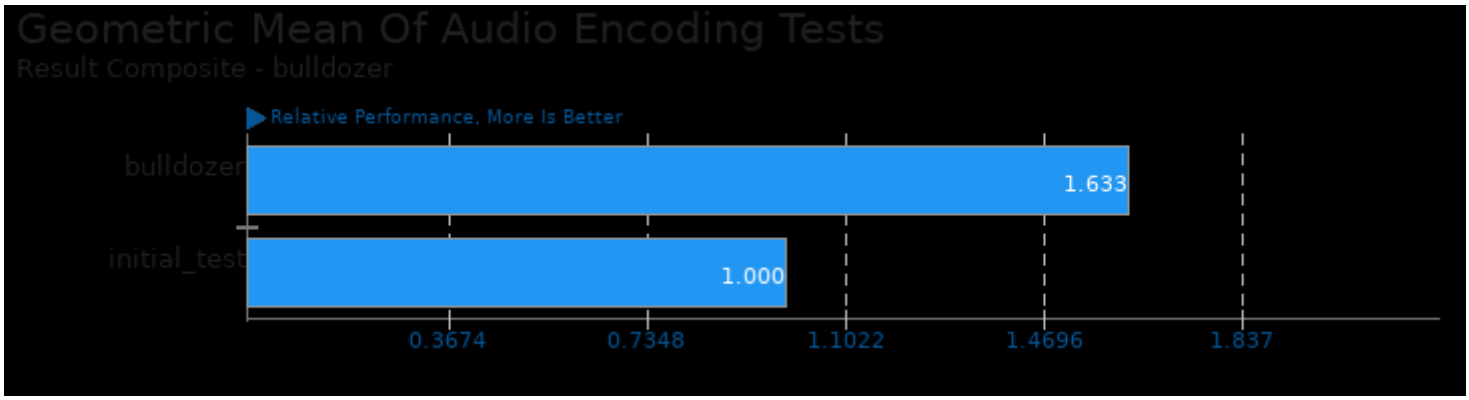

OpenSSL 1.0.0a
RSA 4096-bit Performance
Signs Per Second, More Is Better
bulldozer
SE +/- 0.30, N = 4
68.68
initial_test
SE +/- 0.07, N = 4
45.63
15
30
45
60
75
FLAC Audio Encoding 1.2.1
WAV To FLAC
Seconds, Fewer Is Better
bulldozer
SE +/- 0.01, N = 5
8.25
initial_test
SE +/- 0.03, N = 5
11.97
3
6
9
12
15
John The Ripper 1.7.8
Blowfish
Real C/S, More Is Better
bulldozer
SE +/- 1.00, N = 3
954
initial_test
SE +/- 0.67, N = 3
742
200
400
600
800
1000
PostgreSQL pgbench 9.0.4
TPC-B Transactions Per Second
TPS, More Is Better
bulldozer
SE +/- 0.30, N = 3
370.12
initial_test
SE +/- 2.73, N = 3
334.85
80
160
240
320
400
Gcrypt Library 1.4.4
CAMELLIA256-ECB Cipher
Microseconds, Fewer Is Better
bulldozer
SE +/- 16.67, N = 3
2807
600
1200
1800
2400
3000

bulldozer

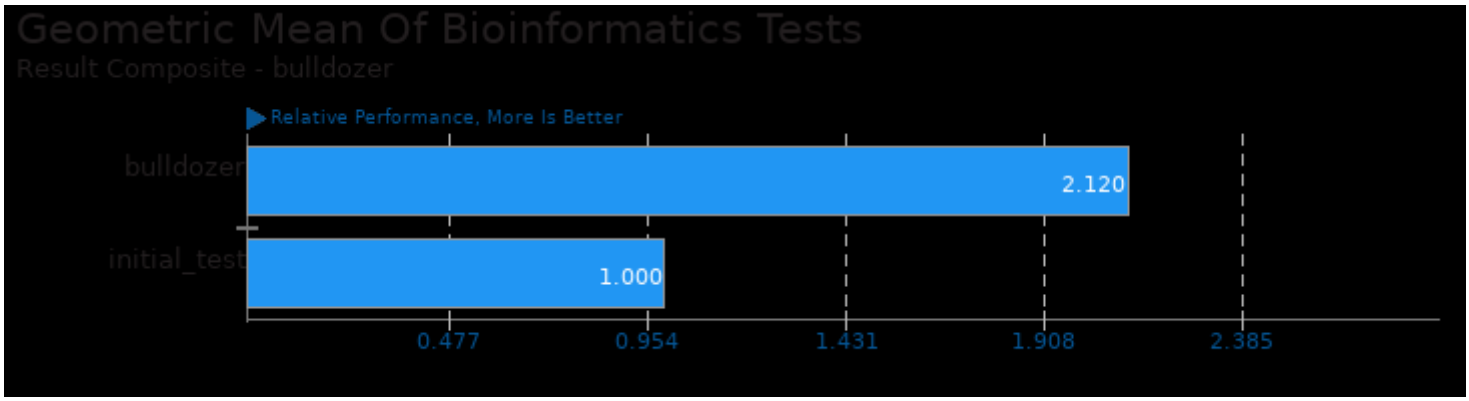

ET: Quake Wars Demo
1680 x 1050
Frames Per Second, More Is Better
bulldozer
SE +/- 11.95, N = 6
71.75
initial_test
SE +/- 5.79, N = 6
51.93
16
32
48
64
80

bulldozer

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

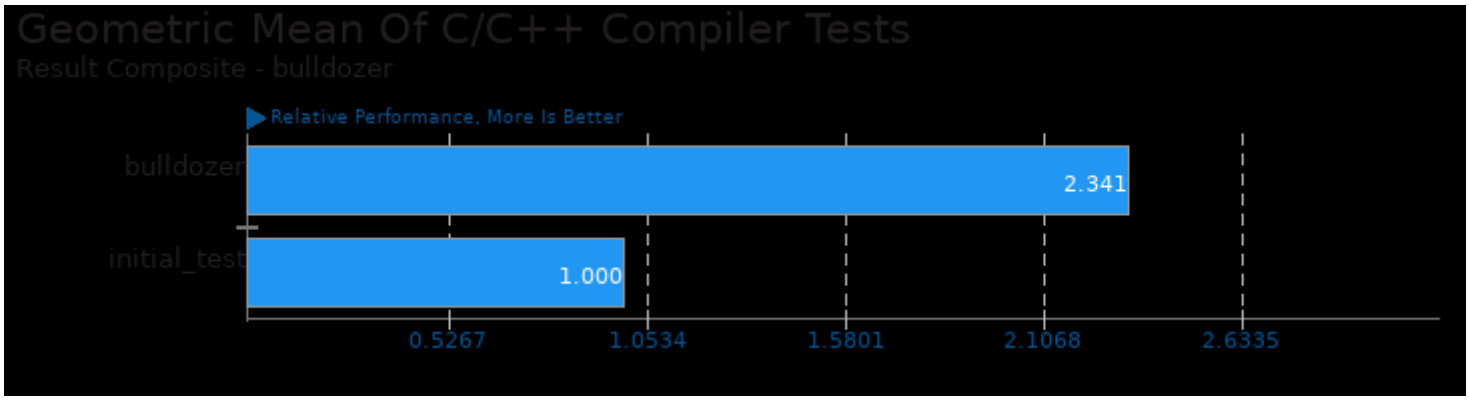


Geometric mean based upon tests: pts/himeno and pts/mafft

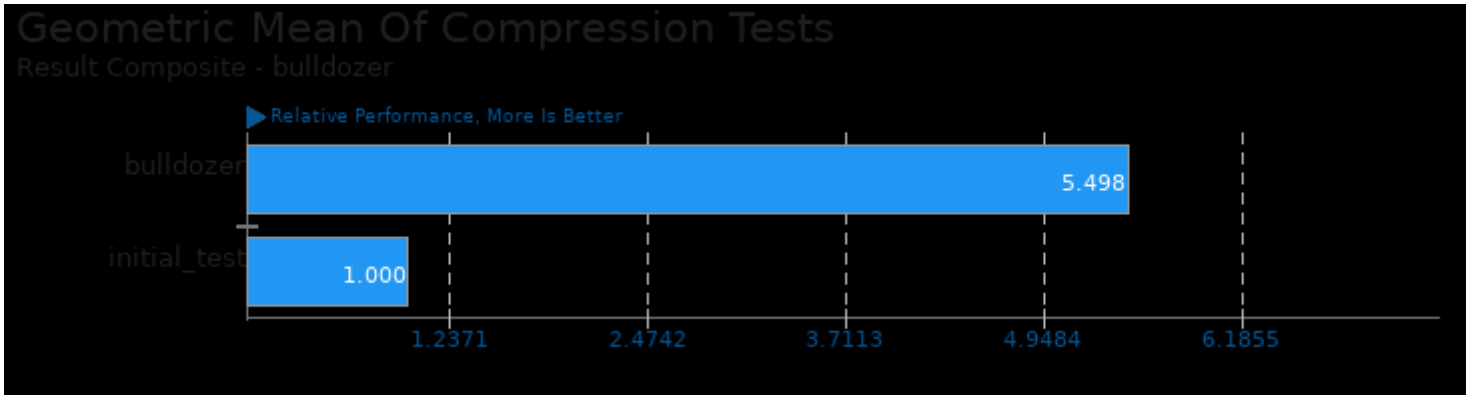


Geometric mean based upon tests: pts/crafty and pts/tscp

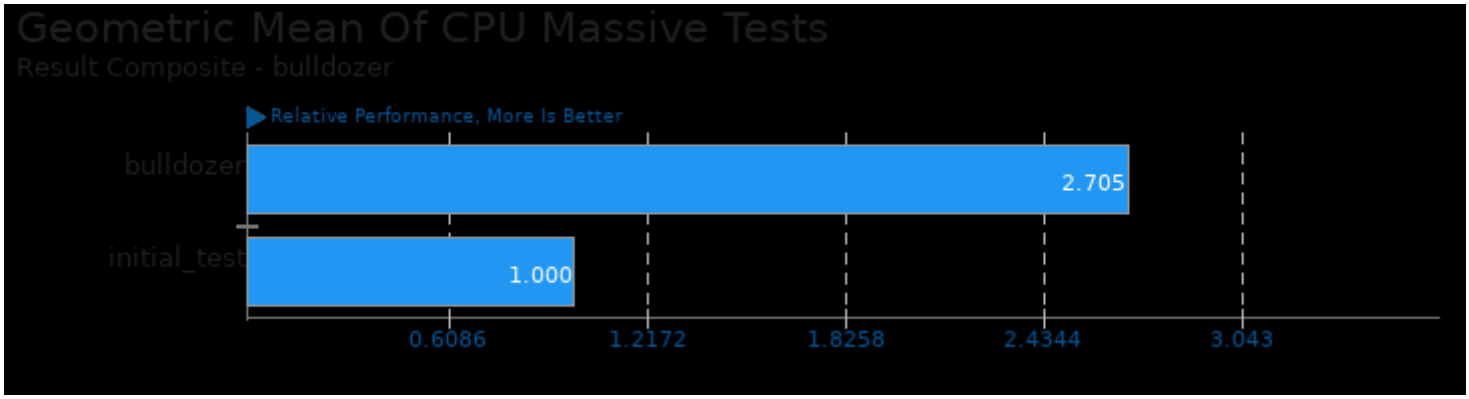
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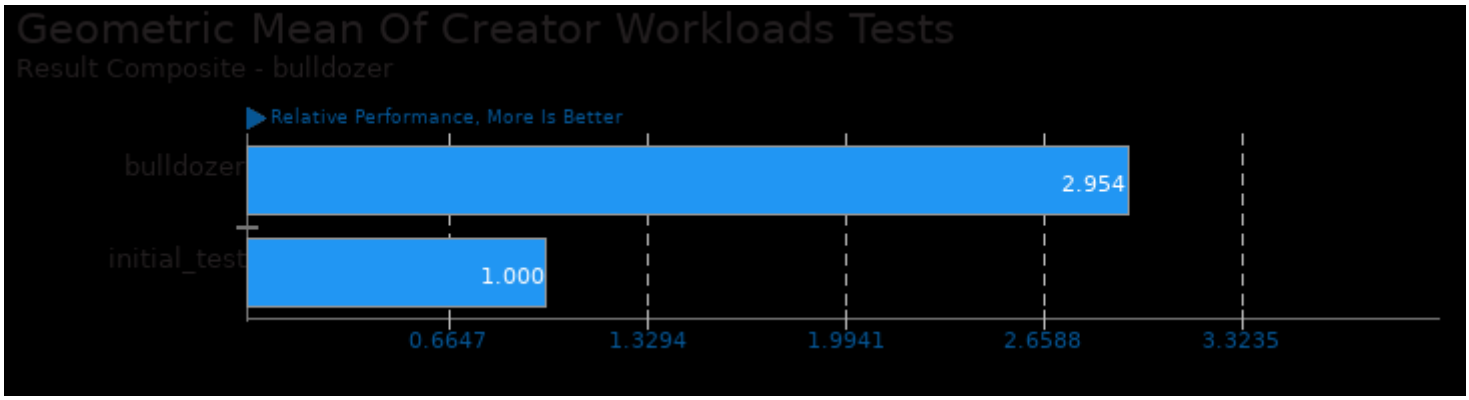
Geometric mean based upon tests: pts/mafft, pts/tscp, pts/graphics-magick, pts/himeno, pts/c-ray, pts/compress-7zip, pts/encode-mp3, pts/encode-flac, pts/pgbench, pts/apache, pts/john-the-ripper, pts/openssl and pts/tachyon



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



Geometric mean based upon tests: pts/apache, pts/c-ray, pts/compress-7zip, pts/compress-pbzip2, pts/crafty, pts/encode-flac, pts/encode-mp3, pts/graphics-magick, pts/himeno, pts/john-the-ripper, pts/openssl, pts/mafft, pts/npb, pts/pgbench, pts/stream, pts/tachyon and pts/ttsiod-renderer



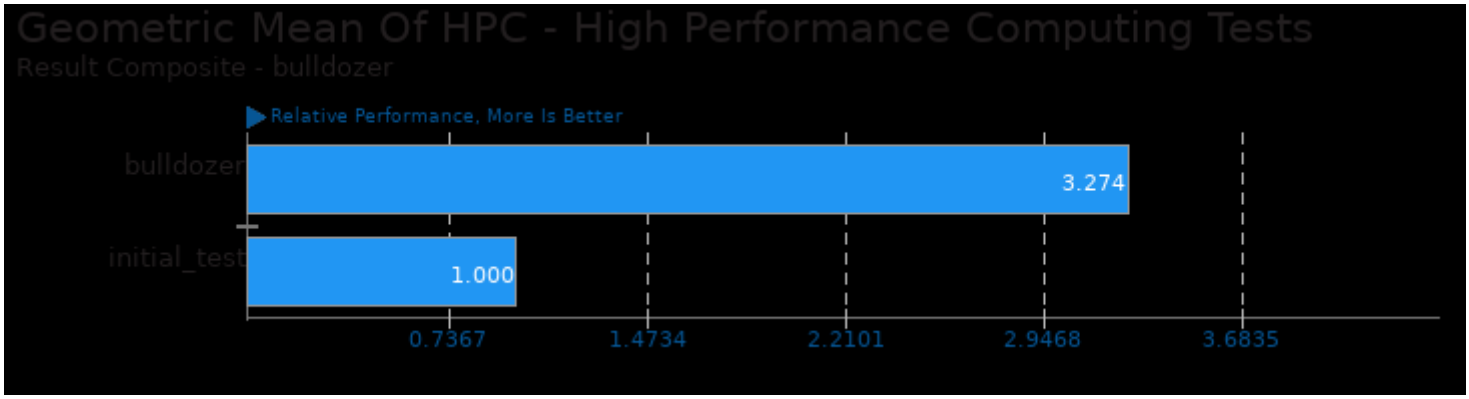
Geometric mean based upon tests: pts/c-ray, pts/tachyon, pts/smallpt, pts/ttsiod-renderer, pts/ffmpeg, pts/encode-mp3, pts/encode-flac and pts/graphics-magick



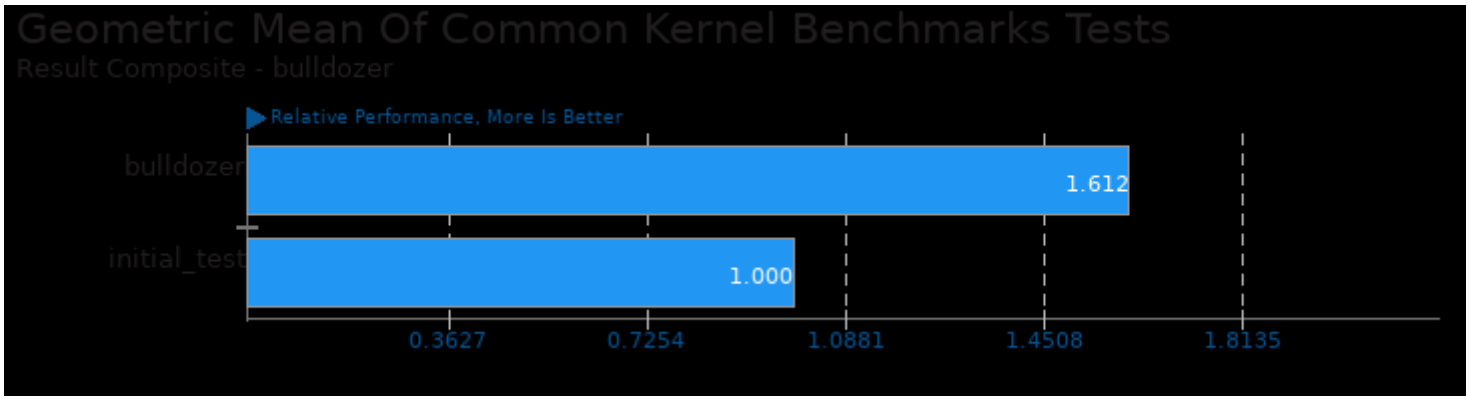
Geometric mean based upon tests: pts/openssl, pts/gcrypt and pts/john-the-ripper



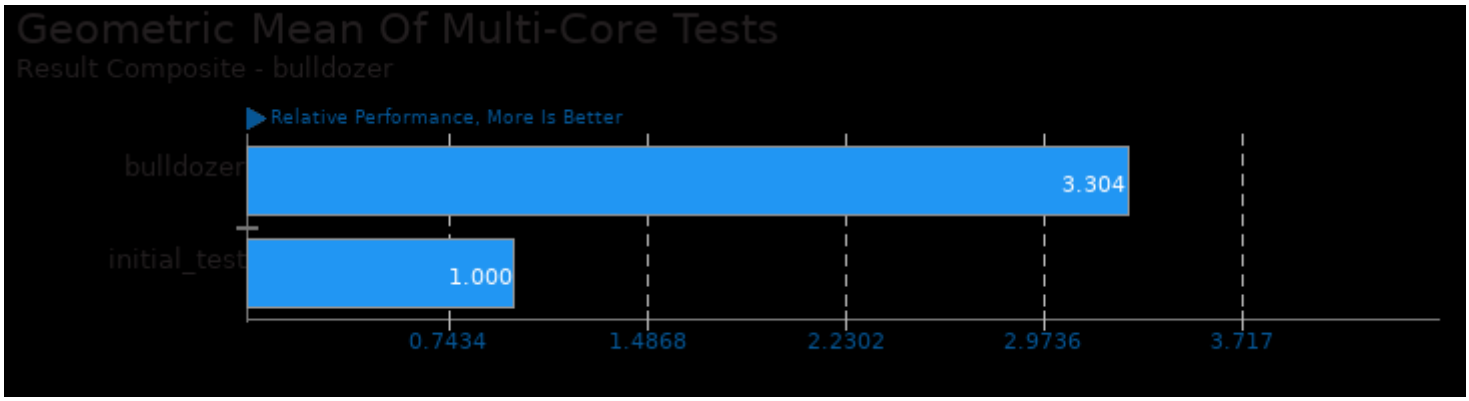
Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/ffmpeg



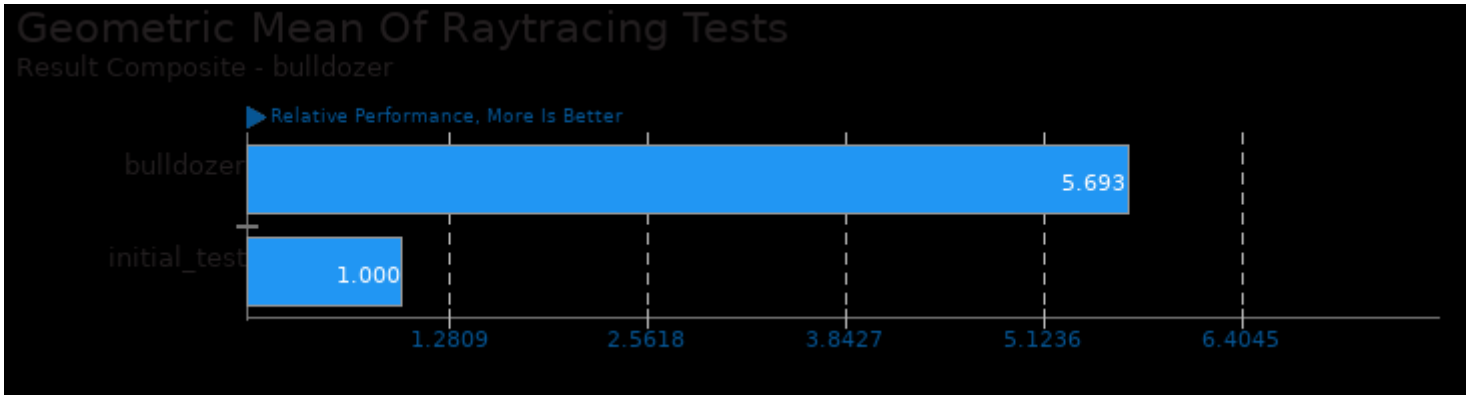
Geometric mean based upon tests: pts/npb, pts/himeno and pts/mafft



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



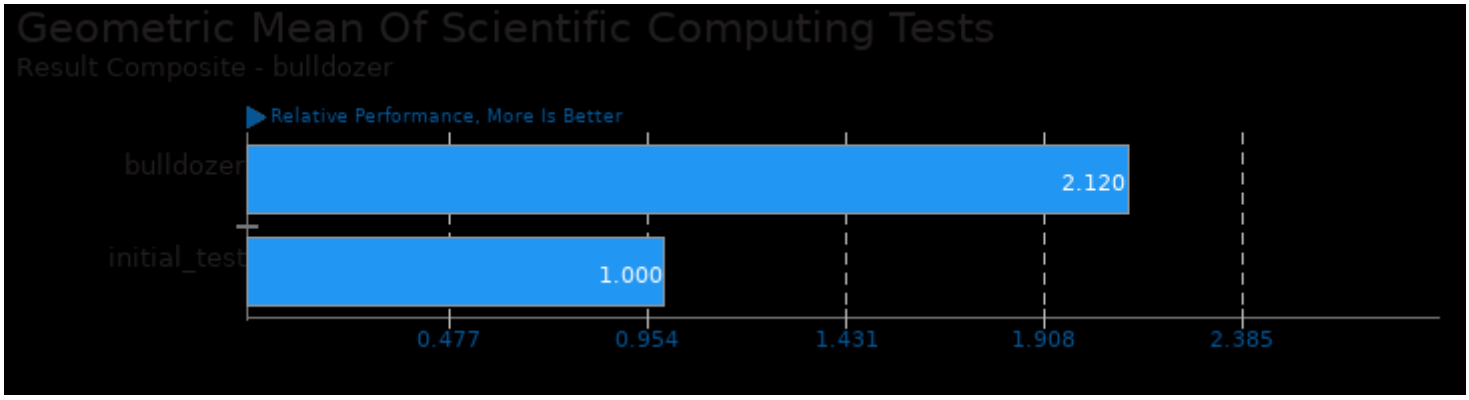
Geometric mean based upon tests: pts/c-ray, pts/tachyon, pts/ffmpeg, pts/npb, pts/john-the-ripper, pts/smallpt, pts/graphics-magick, pts/compress-7zip, pts/compress-pbzip2, pts/ttsiod-renderer and pts/pgbench



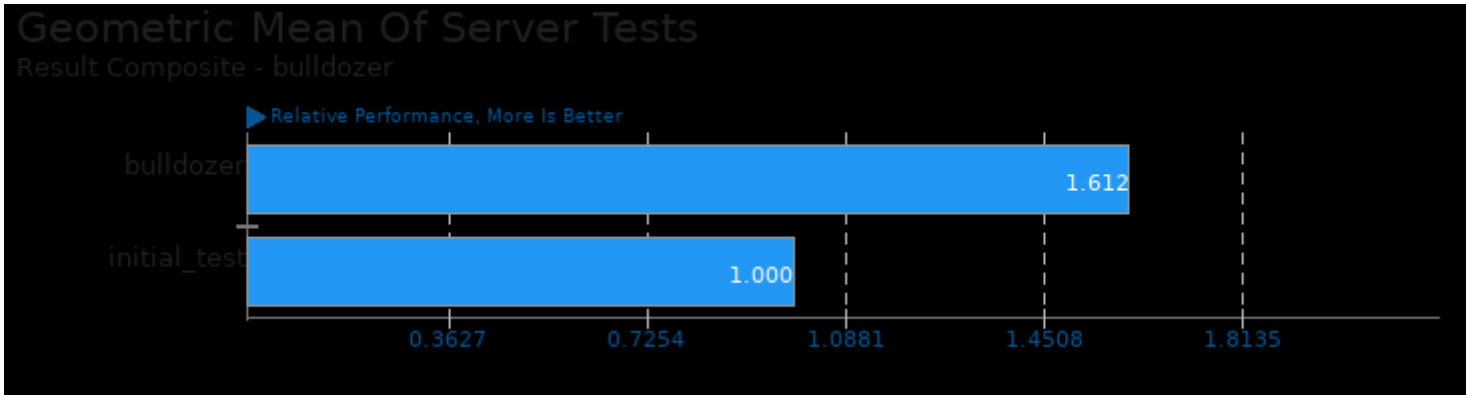
Geometric mean based upon tests: pts/c-ray and pts/tachyon



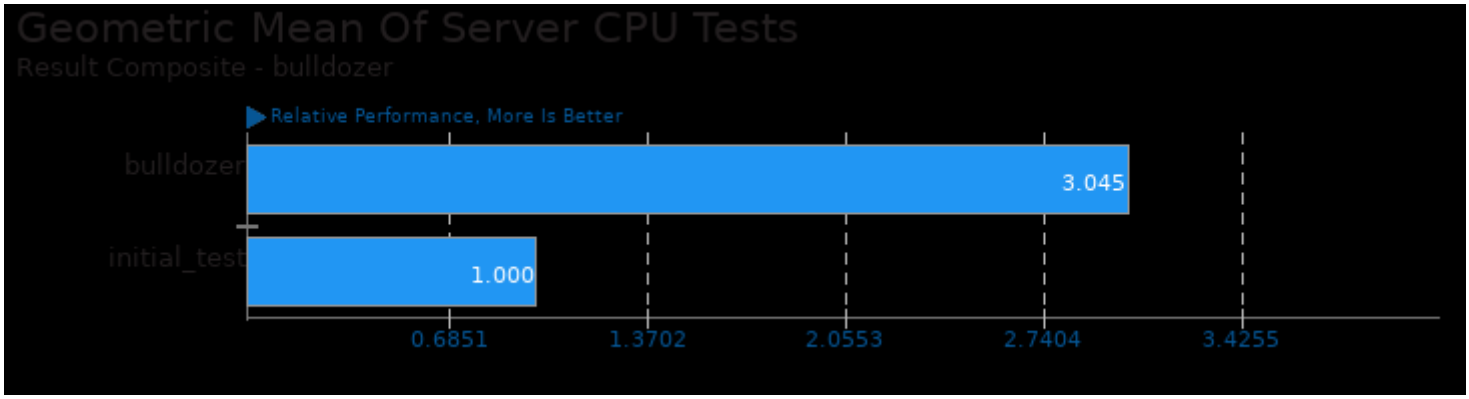
Geometric mean based upon tests: pts/c-ray, pts/tachyon, pts/smallpt and pts/ttsiod-renderer



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

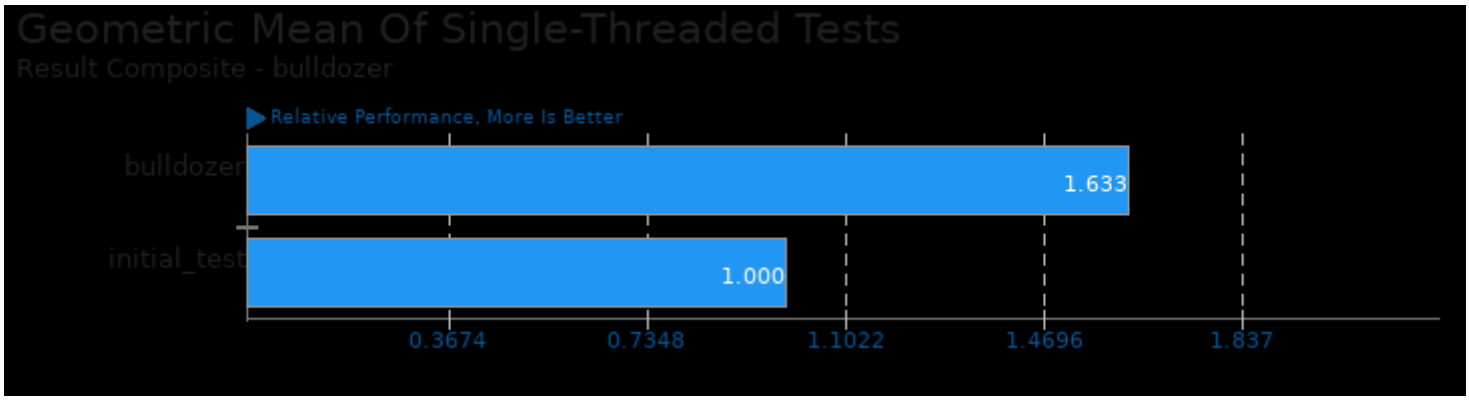


Geometric mean based upon tests: pts/apache, pts/pgbench and pts/openssl



Geometric mean based upon tests: pts/npb, pts/john-the-ripper, pts/himeno, pts/compress-7zip, pts/c-ray, pts/openssl

and pts/stream



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 19:39.