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batchws

Intel Core i7-2600K testing with a ASUS MAXIMUS IV GENE-Z/GEN3 and AMD Radeon HD 6900 2048MB on Ubuntu 12.04 via the Phoronix Test Suite.

Automated Executive Summary

t4b_01 had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (t4b_01) was 1.03x the speed of the slowest (t4b_02).

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

Apache Benchmark (Static Web Page Serving) at 1.037x
NGINX Benchmark (Static Web Page Serving) at 1.033x
Timed MAFFT Alignment (Multiple Sequence Alignment) at 1.026x
Parallel BZIP2 Compression (256MB File Compression) at 1.019x
Himeno Benchmark (Poisson Pressure Solver) at 1.012x
SPECViewPerf 9 (Pro/Engineer) at 1.01x
NAS Parallel Benchmarks (Test / Class: LU.A) at 1.01x
John The Ripper (Blowfish) at 1.009x
LAME MP3 Encoding (WAV To MP3) at 1.007x
Stream (Type: Add) at 1.006x.

Test Systems:

t4b_01

Processor: Intel Core i7-2600K @ 3.40GHz (4 Cores), Motherboard: ASUS MAXIMUS IV GENE-Z/GEN3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 16384MB, Disk: 2500GB Western Digital WD25EZRX-00M + 2 x 750GB Western Digital WD7500AACS-0, Graphics: AMD Radeon HD 6900 2048MB, Audio: Realtek ALC889, Monitor: S2433W, Network: Intel 82579V Gigabit Connection

OS: Ubuntu 12.04, Kernel: 3.2.0-27-generic (x86_64), Desktop: KDE 4.8.4, Display Server: X Server 1.11.3, Display Driver: fglrx 8.96.4, OpenGL: 4.2.11627, Compiler: GCC 4.6, File-System: btrfs, Screen Resolution: 1920x1200

Compiler Notes: --build=x86_64-linux-gnu --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-arch-32=i686 --with-tune=generic -v
Disk Notes: CFQ / compress=lzo,noatime,nodiratime,nospace_cache,rw
Processor Notes: Scaling Governor: ondemand
System Notes: Disk Scheduler: CFQ.

t4b_02

Processor: Intel Core i7-2600K @ 3.40GHz (4 Cores), Motherboard: ASUS MAXIMUS IV GENE-Z/GEN3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 16384MB, Disk: 2500GB Western Digital WD25EZRX-00M + 2 x 750GB Western Digital WD7500AACS-0, Graphics: AMD Radeon HD 6900 2048MB, Audio: Realtek ALC889, Monitor: S2433W, Network: Intel 82579V Gigabit Connection

OS: Ubuntu 12.04, Kernel: 3.2.0-29-generic (x86_64), Desktop: KDE 4.8.4, Display Server: X Server 1.11.3, Display Driver: fglrx 8.96.4, OpenGL: 4.2.11627, Compiler: GCC 4.6, File-System: btrfs, Screen Resolution: 1920x1200

Compiler Notes: --build=x86_64-linux-gnu --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-arch-32=i686 --with-tune=generic -v
Disk Notes: CFQ / compress=lzo,noatime,nodiratime,nospace_cache,rw
Processor Notes: Scaling Governor: ondemand
System Notes: Disk Scheduler: CFQ.

	t4b_01	t4b_02
IOzone - 4GB - Read Performance (MB/s)	**9750**	**9745**
Normalized	100%	99.94%
Standard Deviation	0.9%	0.9%
IOzone - 4GB - Write Performance (MB/s)	**1439**	**610.14**
Normalized	100%	42.41%
Standard Deviation	0.6%	71.9%
VDrift - 1920 x 1200 (FPS)	**95.62**	**95.90**
Normalized	99.71%	100%
Standard Deviation	0.2%	0.3%
SPECViewPerf 9 - ensight-03 (Weighted Geometric Mean)	**54.83**	**55.12**
Normalized	99.47%	100%
Standard Deviation	0.4%	0.1%

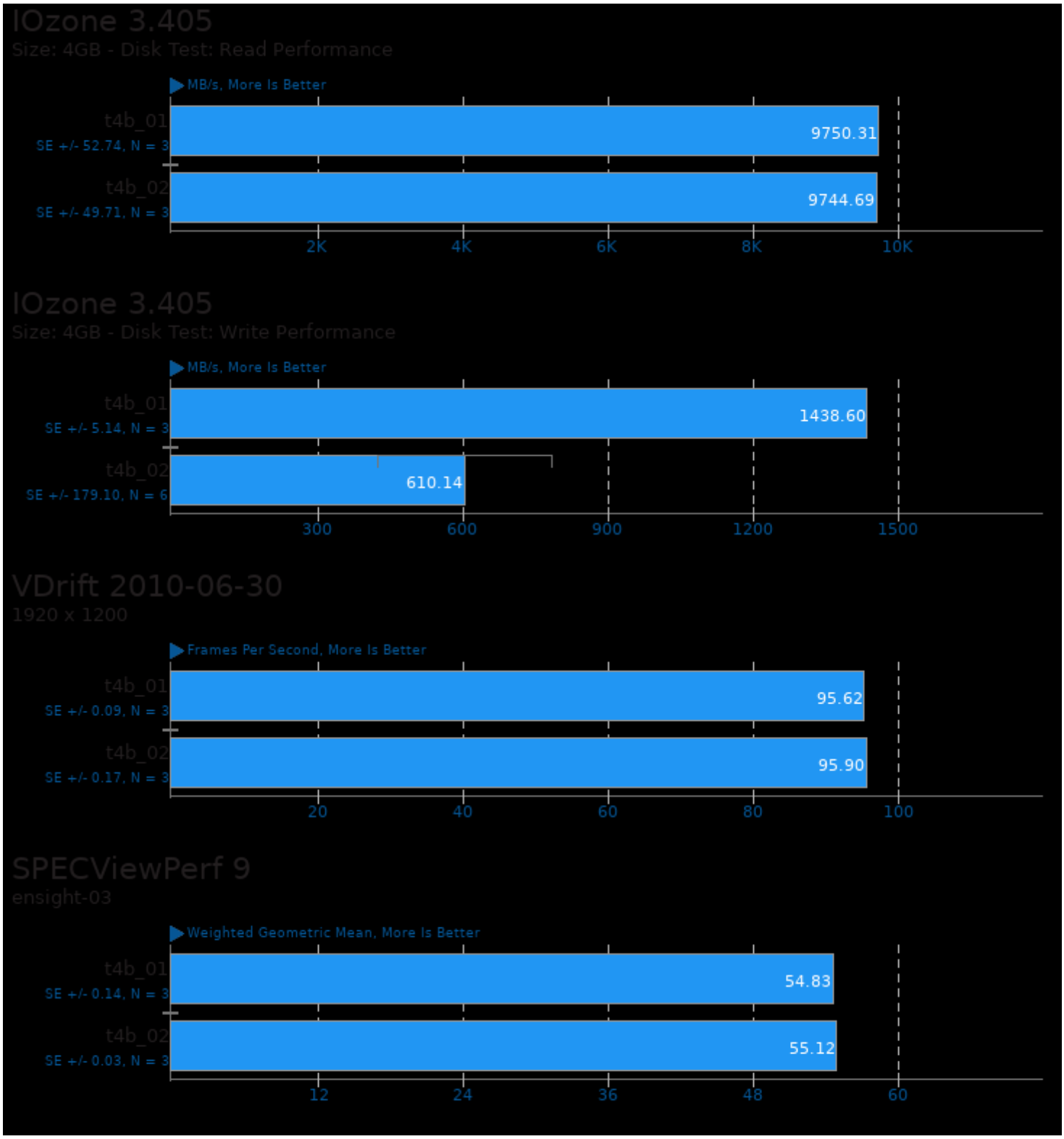
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SPECViewPerf 9 - Pro/Engineer (Weighted Geometric Mean)	**18.99**	**18.80**
Normalized	100%	99%
Standard Deviation	0.4%	0.3%
SPECViewPerf 9 - maya-02 (Weighted Geometric	**69.06**	**68.88**
Normalized	100%	99.74%
Standard Deviation	0.1%	0.3%
Stream - Copy (MB/s)	**15001**	**14947**
Normalized	100%	99.64%
Standard Deviation	0.1%	0.1%
Stream - Scale (MB/s)	**14585**	**14548**
Normalized	100%	99.75%
Standard Deviation	0.1%	0.1%
Stream - Triad (MB/s)	**16285**	**16190**
Normalized	100%	99.41%
Standard Deviation	0.1%	0.1%
Stream - Add (MB/s)	**15890**	**15796**
Normalized	100%	99.41%
Standard Deviation	0.1%	0.1%
NAS Parallel Benchmarks - EP.B (Mop/s)	**204.20**	**203.54**
Normalized	100%	99.68%
Standard Deviation	0%	0.2%
NAS Parallel Benchmarks - LU.A (Mop/s)	**8838**	**8755**
Normalized	100%	99.06%
Standard Deviation	0.1%	0.1%
NAS Parallel Benchmarks - MG.B (Mop/s)	**6456**	**6472**
Normalized	99.75%	100%
Standard Deviation	0.6%	0.5%
Timed HMMer Search - P.D.S (sec)	**13.38**	**13.57**
Normalized	100%	98.6%
Standard Deviation	10.6%	12.9%
Timed MAFFT Alignment - M.S.A (sec)	**6.51**	**6.68**
Normalized	100%	97.46%
Standard Deviation	2.9%	1.7%
John The Ripper - Blowfish (Real C/S)	**3621**	**3589**
Normalized	100%	99.12%
Standard Deviation	0.1%	0%
GraphicsMagick - HWB Color Space (Iterations/min)	173	173
Standard Deviation	0.3%	0%
Himeno Benchmark - P.P.S (MFLOPS)	**1594**	**1613**
Normalized	98.81%	100%
Standard Deviation	0.3%	0.1%
C-Ray - Total Time (sec)	**46.39**	**46.63**
Normalized	100%	99.49%
Standard Deviation	0%	0.2%
Parallel BZIP2 Compression - 2.F.C (sec)	**8.99**	**9.16**
Normalized	100%	98.14%
Standard Deviation	1.4%	5.3%
LZMA Compression - 2.F.C (sec)	**129.88**	**130.13**
Normalized	100%	99.81%
Standard Deviation	0.3%	0.3%
Crafty - Elapsed Time (sec)	**76.82**	**76.74**
Normalized	99.9%	100%
Standard Deviation	0.2%	0.1%
LAME MP3 Encoding - WAV To MP3 (sec)	**13.98**	**13.88**

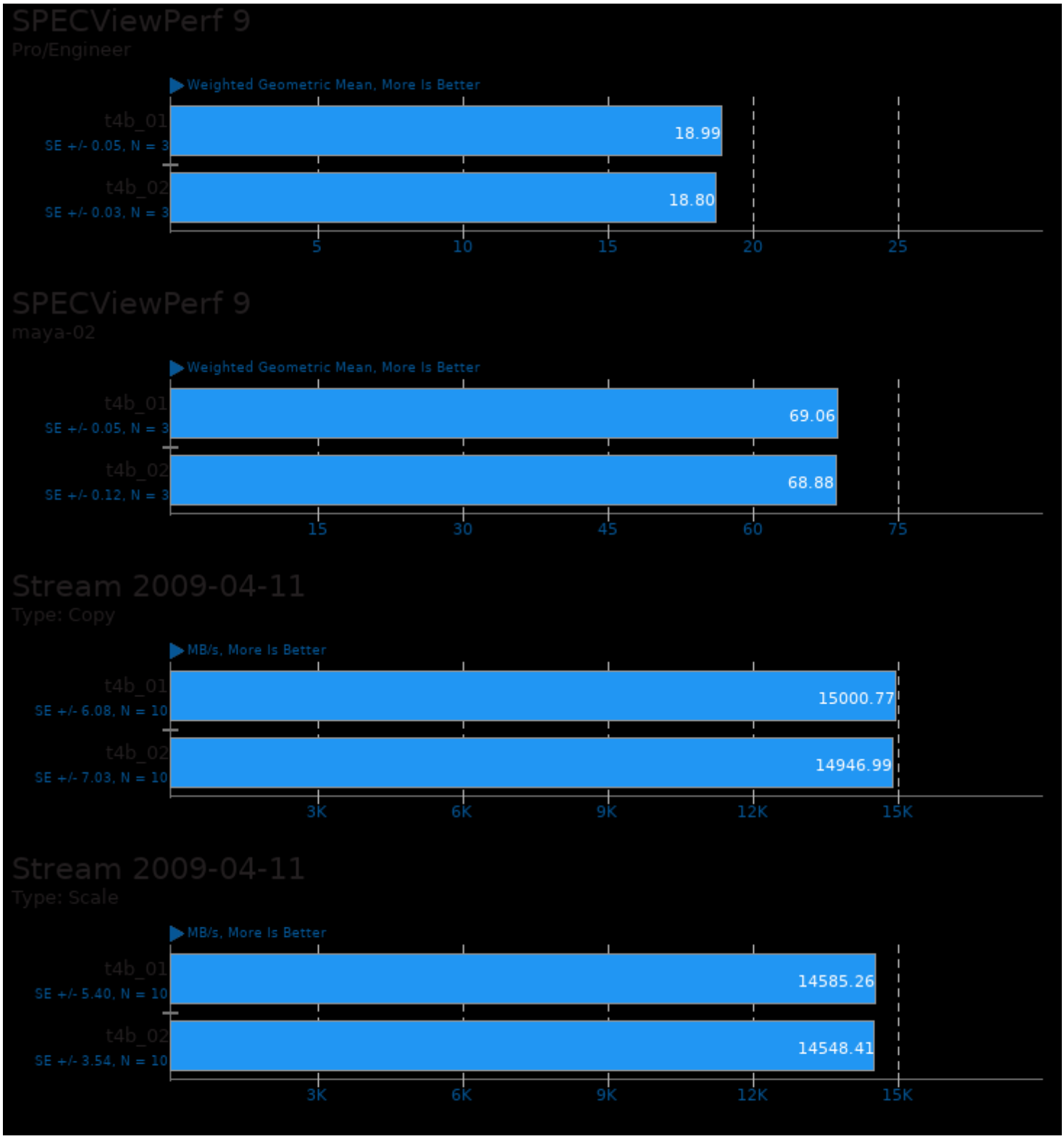
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Normalized	99.28%	100%
Standard Deviation	2%	0.9%
FFmpeg - AVI To NTSC VCD (sec)	**10.47**	**10.45**
Normalized	99.81%	100%
Standard Deviation	3.3%	3.3%
POV-Ray - Total Time (sec)	**672**	**674**
Normalized	100%	99.7%
OpenSSL - R.4.b.P (Signs/sec)	**89.40**	**89.13**
Normalized	100%	99.7%
Standard Deviation	0.5%	0.7%
PostgreSQL pgbench - T.B.T.P.S (TPS)	**31.60**	**31.70**
Normalized	99.68%	100%
Standard Deviation	1.8%	0.2%
NGINX Benchmark - S.W.P.S (Reqs/sec)	**31182**	**32210**
Normalized	96.81%	100%
Standard Deviation	2.8%	2.3%
Apache Benchmark - S.W.P.S (Reqs/sec)	**34478**	**35754**
Normalized	96.43%	100%
Standard Deviation	3.2%	2.6%
PHPBench - P.B.S (Score)	**95364**	**94916**
Normalized	100%	99.53%
Standard Deviation	0.9%	1.6%

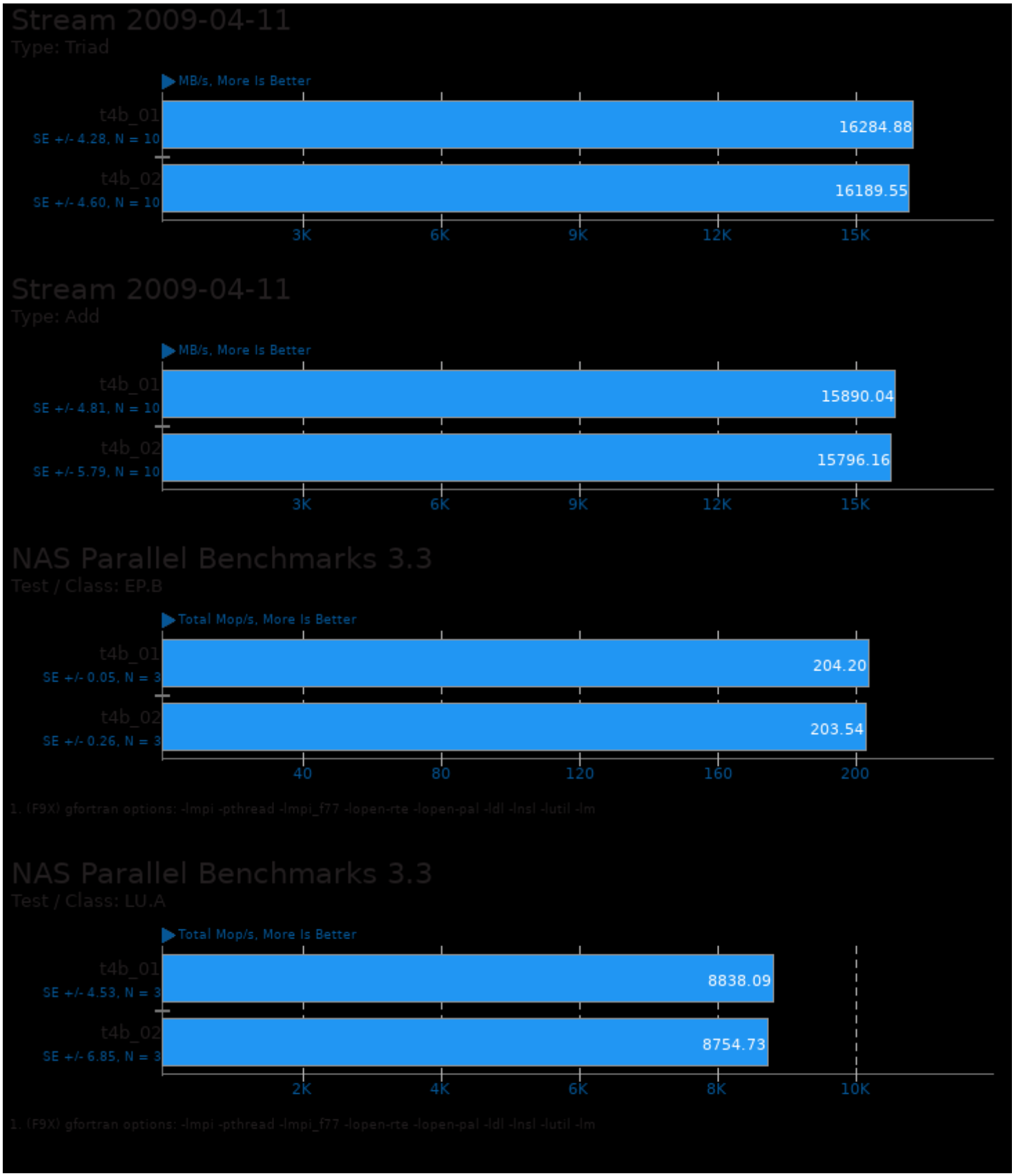
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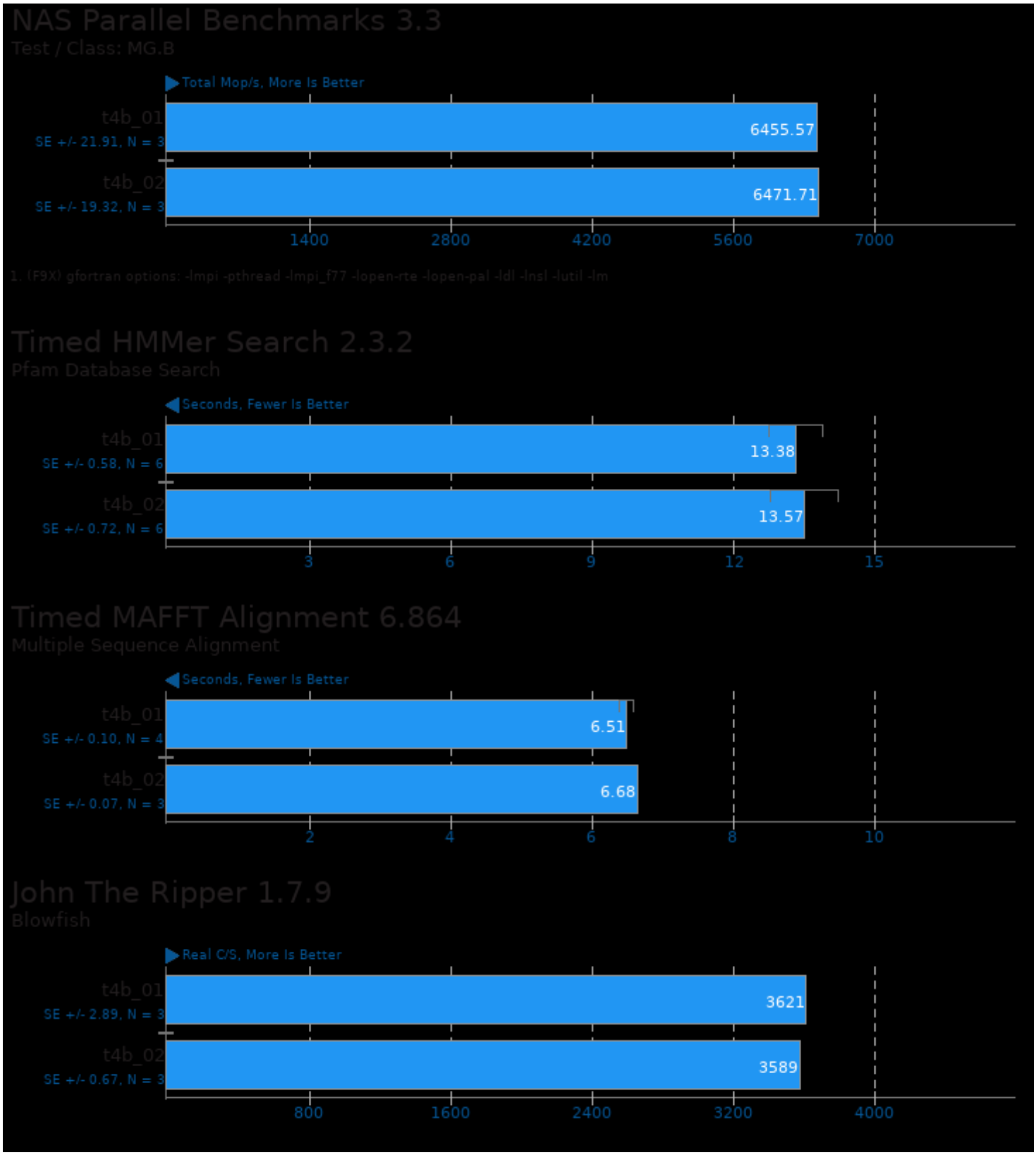

IOzone 3.405
Size: 4GB - Disk Test: Read Performance
MB/s, More Is Better
t4b_01
SE +/- 52.74, N = 3
9750.31
t4b_02
SE +/- 49.71, N = 3
9744.69
2K
4K
6K
8K
10K
IOzone 3.405
Size: 4GB - Disk Test: Write Performance
MB/s, More Is Better
t4b_01
SE +/- 5.14, N = 3
1438.60
t4b_02
SE +/- 179.10, N = 6
610.14
300
600
900
1200
1500
VDrift 2010-06-30
1920 x 1200
Frames Per Second, More Is Better
t4b_01
SE +/- 0.09, N = 3
95.62
t4b_02
SE +/- 0.17, N = 3
95.90
20
40
60
80
100
SPECViewPerf 9
ensight-03
Weighted Geometric Mean, More Is Better
t4b_01
SE +/- 0.14, N = 3
54.83
t4b_02
SE +/- 0.03, N = 3
55.12
12
24
36
48
60

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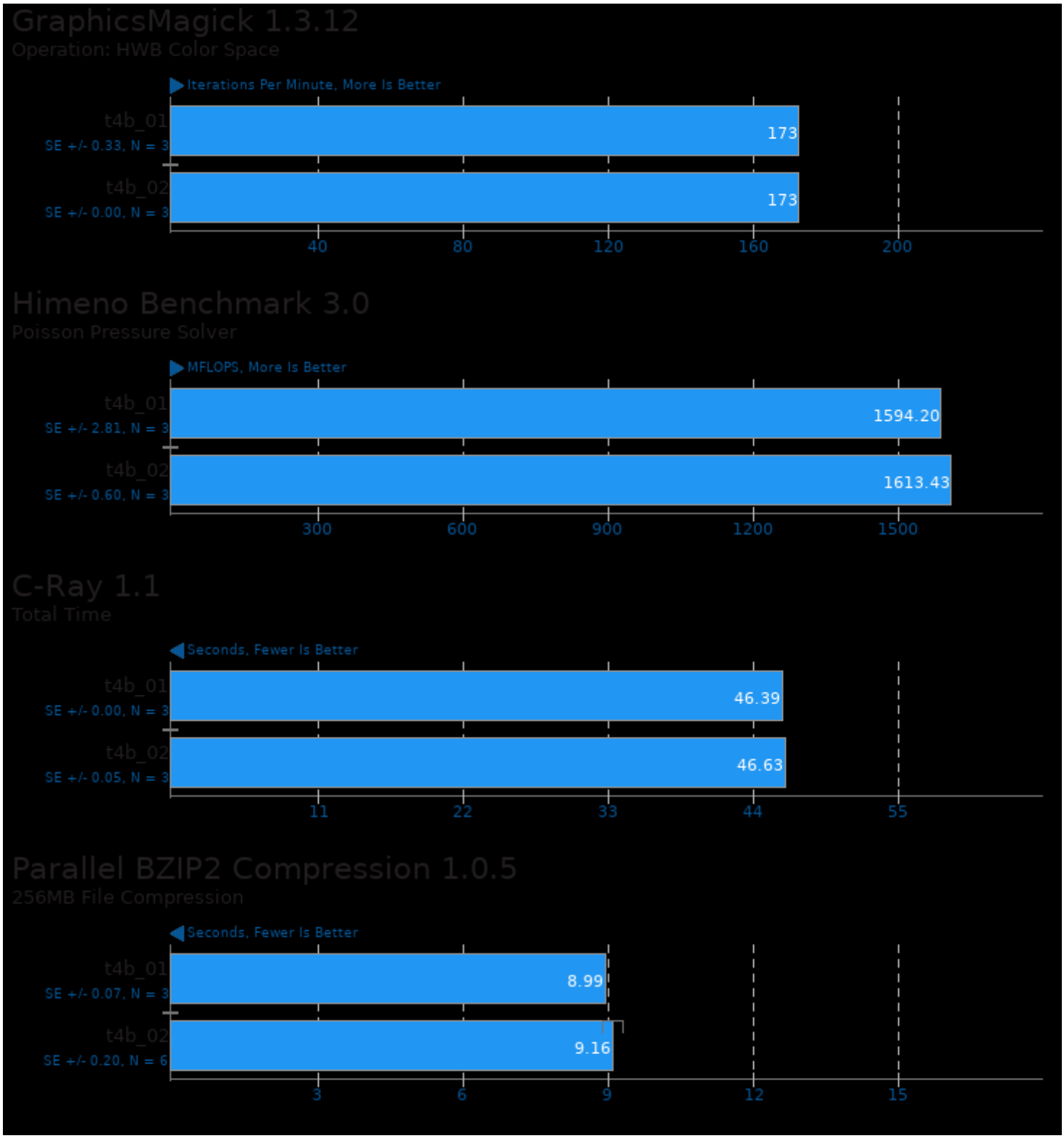

SPECViewPerf 9
Pro/Engineer
Weighted Geometric Mean, More Is Better
t4b_01
SE +/- 0.05, N = 3
18.99
t4b_02
SE +/- 0.03, N = 3
18.80
5
10
15
20
25
SPECViewPerf 9
maya-02
Weighted Geometric Mean, More Is Better
t4b_01
SE +/- 0.05, N = 3
69.06
t4b_02
SE +/- 0.12, N = 3
68.88
15
30
45
60
75
Stream 2009-04-11
Type: Copy
MB/s, More Is Better
t4b_01
SE +/- 6.08, N = 10
15000.77
t4b_02
SE +/- 7.03, N = 10
14946.99
3K
6K
9K
12K
15K
Stream 2009-04-11
Type: Scale
MB/s, More Is Better
t4b_01
SE +/- 5.40, N = 10
14585.26
t4b_02
SE +/- 3.54, N = 10
14548.41
3K
6K
9K
12K
15K

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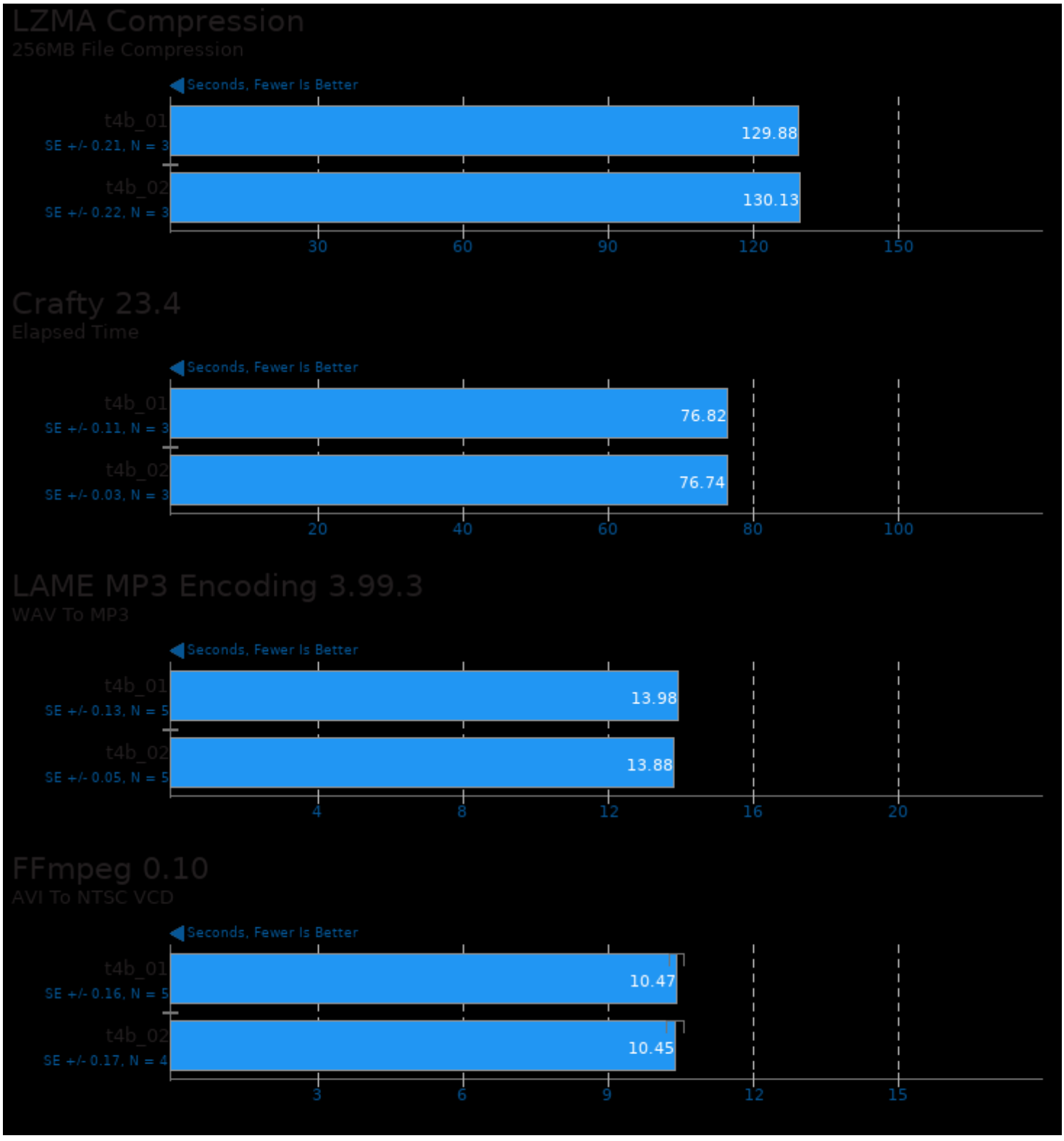

Stream 2009-04-11
Type: Triad
MB/s, More Is Better
t4b_01
SE +/- 4.28, N = 10
16284.88
t4b_02
SE +/- 4.60, N = 10
16189.55
3K
6K
9K
12K
15K
Stream 2009-04-11
Type: Add
MB/s, More Is Better
t4b_01
SE +/- 4.81, N = 10
15890.04
t4b_02
SE +/- 5.79, N = 10
15796.16
3K
6K
9K
12K
15K
NAS Parallel Benchmarks 3.3
Test / Class: EP.B
Total Mop/s, More Is Better
t4b_01
SE +/- 0.05, N = 3
204.20
t4b_02
SE +/- 0.26, N = 3
203.54
40
80
120
160
200
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm
NAS Parallel Benchmarks 3.3
Test / Class: LU.A
Total Mop/s, More Is Better
t4b_01
SE +/- 4.53, N = 3
8838.09
t4b_02
SE +/- 6.85, N = 3
8754.73
2K
4K
6K
8K
10K
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm


NAS Parallel Benchmarks 3.3
Test / Class: MG.B
Total Mop/s, More Is Better
t4b_01
SE +/- 21.91, N = 3
6455.57
t4b_02
SE +/- 19.32, N = 3
6471.71
1400
2800
4200
5600
7000
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm
Timed HMMer Search 2.3.2
Pfam Database Search
Seconds, Fewer Is Better
t4b_01
SE +/- 0.58, N = 6
13.38
t4b_02
SE +/- 0.72, N = 6
13.57
3
6
9
12
15
Timed MAFFT Alignment 6.864
Multiple Sequence Alignment
Seconds, Fewer Is Better
t4b_01
SE +/- 0.10, N = 4
6.51
t4b_02
SE +/- 0.07, N = 3
6.68
2
4
6
8
10
John The Ripper 1.7.9
Blowfish
Real C/S, More Is Better
t4b_01
SE +/- 2.89, N = 3
3621
t4b_02
SE +/- 0.67, N = 3
3589
800
1600
2400
3200
4000

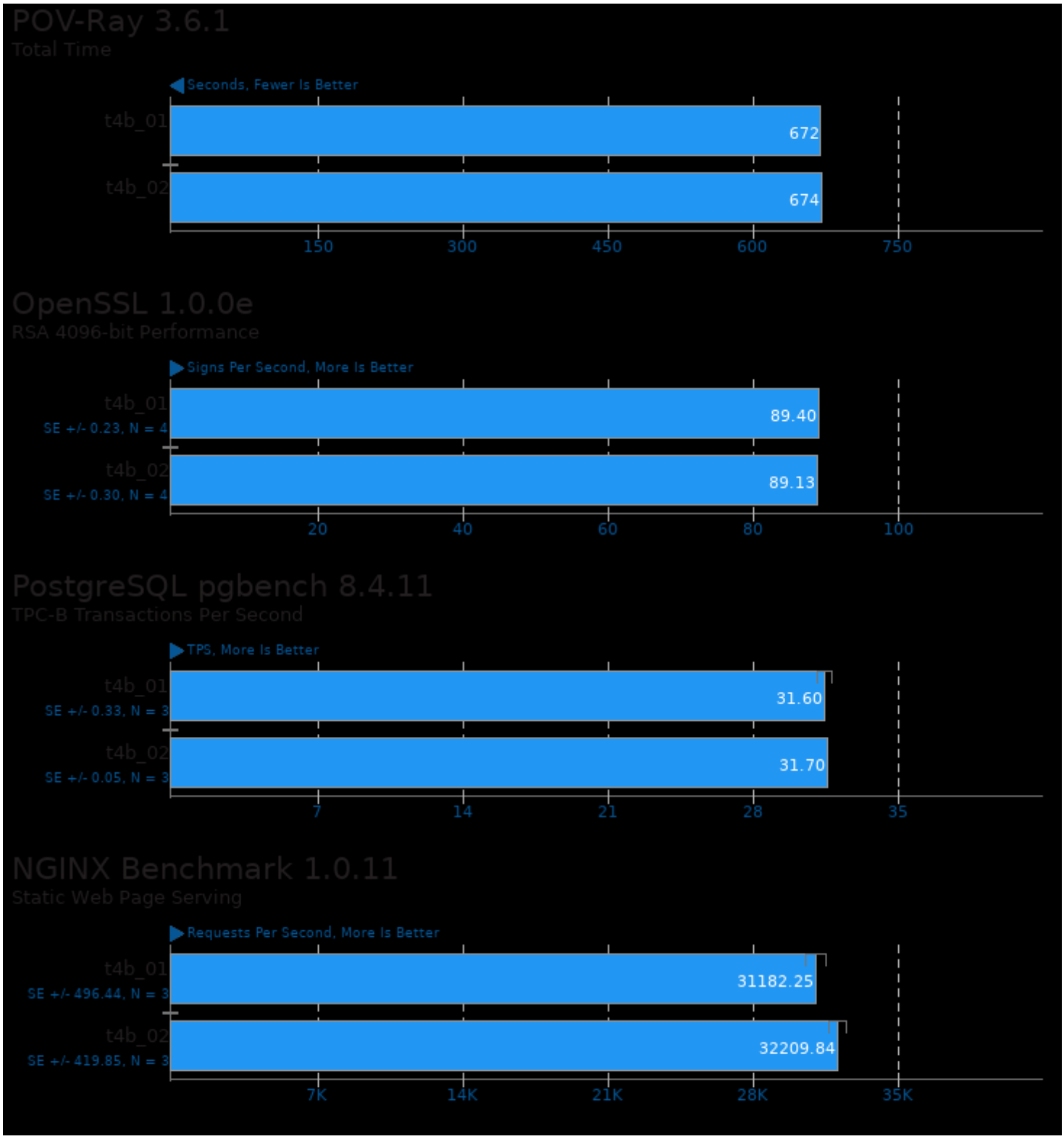
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GraphicsMagick 1.3.12
Operation: HWB Color Space
Iterations Per Minute, More Is Better
t4b_01
SE +/- 0.33, N = 3
173
t4b_02
SE +/- 0.00, N = 3
173
40
80
120
160
200
Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
t4b_01
SE +/- 2.81, N = 3
1594.20
t4b_02
SE +/- 0.60, N = 3
1613.43
300
600
900
1200
1500
C-Ray 1.1
Total Time
Seconds, Fewer Is Better
t4b_01
SE +/- 0.00, N = 3
46.39
t4b_02
SE +/- 0.05, N = 3
46.63
11
22
33
44
55
Parallel BZIP2 Compression 1.0.5
256MB File Compression
Seconds, Fewer Is Better
t4b_01
SE +/- 0.07, N = 3
8.99
t4b_02
SE +/- 0.20, N = 6
9.16
3
6
9
12
15

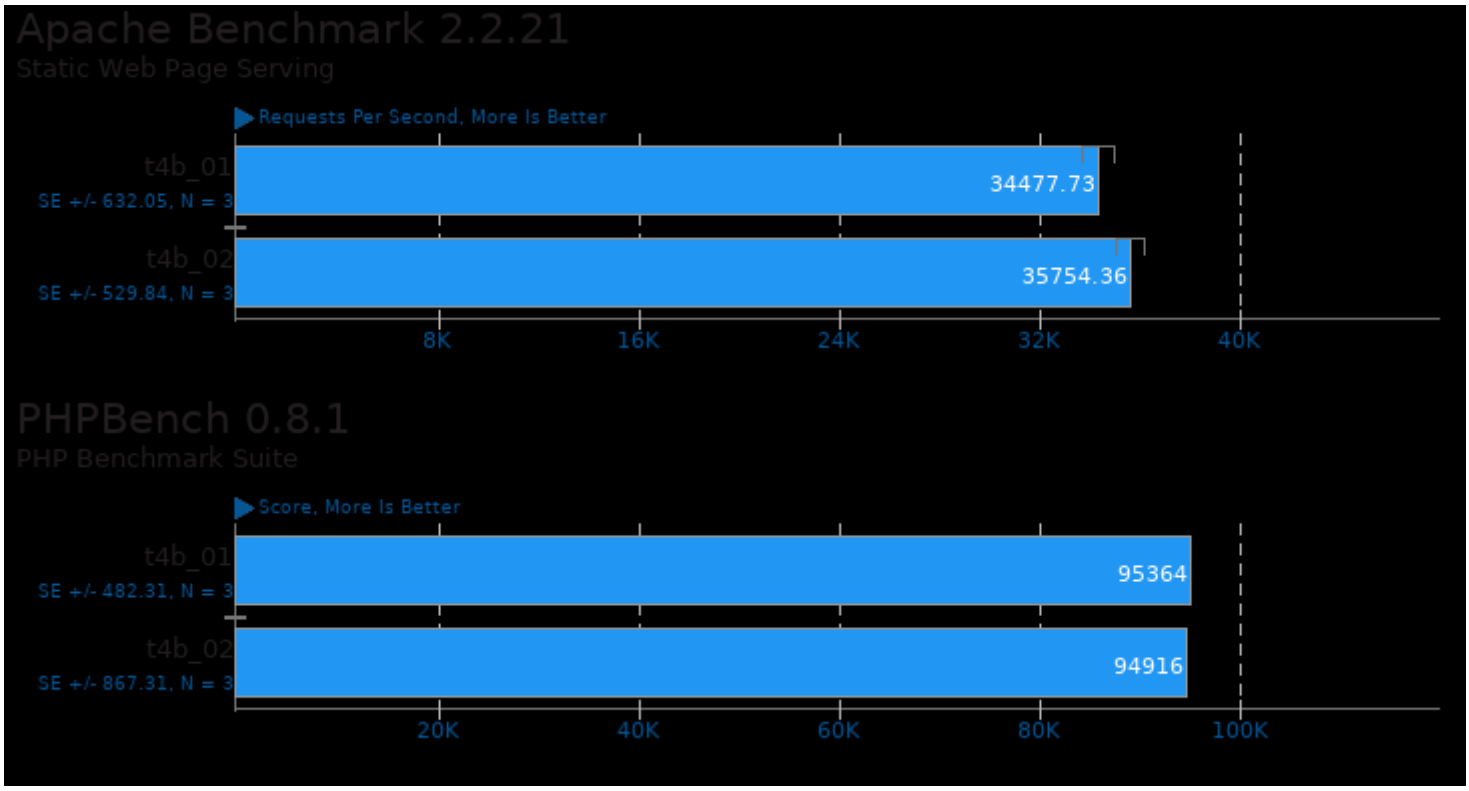
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LZMA Compression
256MB File Compression
Seconds, Fewer Is Better
t4b_01
SE +/- 0.21, N = 3
129.88
t4b_02
SE +/- 0.22, N = 3
130.13
30
60
90
120
150
Crafty 23.4
Elapsed Time
Seconds, Fewer Is Better
t4b_01
SE +/- 0.11, N = 3
76.82
t4b_02
SE +/- 0.03, N = 3
76.74
20
40
60
80
100
LAME MP3 Encoding 3.99.3
WAV To MP3
Seconds, Fewer Is Better
t4b_01
SE +/- 0.13, N = 5
13.98
t4b_02
SE +/- 0.05, N = 5
13.88
4
8
12
16
20
FFmpeg 0.10
AVI To NTSC VCD
Seconds, Fewer Is Better
t4b_01
SE +/- 0.16, N = 5
10.47
t4b_02
SE +/- 0.17, N = 4
10.45
3
6
9
12
15

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POV-Ray 3.6.1
Total Time
Seconds, Fewer Is Better
t4b_01
672
t4b_02
674
150
300
450
600
750
OpenSSL 1.0.0e
RSA 4096-bit Performance
Signs Per Second, More Is Better
t4b_01
SE +/- 0.23, N = 4
89.40
t4b_02
SE +/- 0.30, N = 4
89.13
20
40
60
80
100
PostgreSQL pgbench 8.4.11
TPC-B Transactions Per Second
TPS, More Is Better
t4b_01
SE +/- 0.33, N = 3
31.60
t4b_02
SE +/- 0.05, N = 3
31.70
7
14
21
28
35
NGINX Benchmark 1.0.11
Static Web Page Serving
Requests Per Second, More Is Better
t4b_01
SE +/- 496.44, N = 3
31182.25
t4b_02
SE +/- 419.85, N = 3
32209.84
7K
14K
21K
28K
35K

batchws

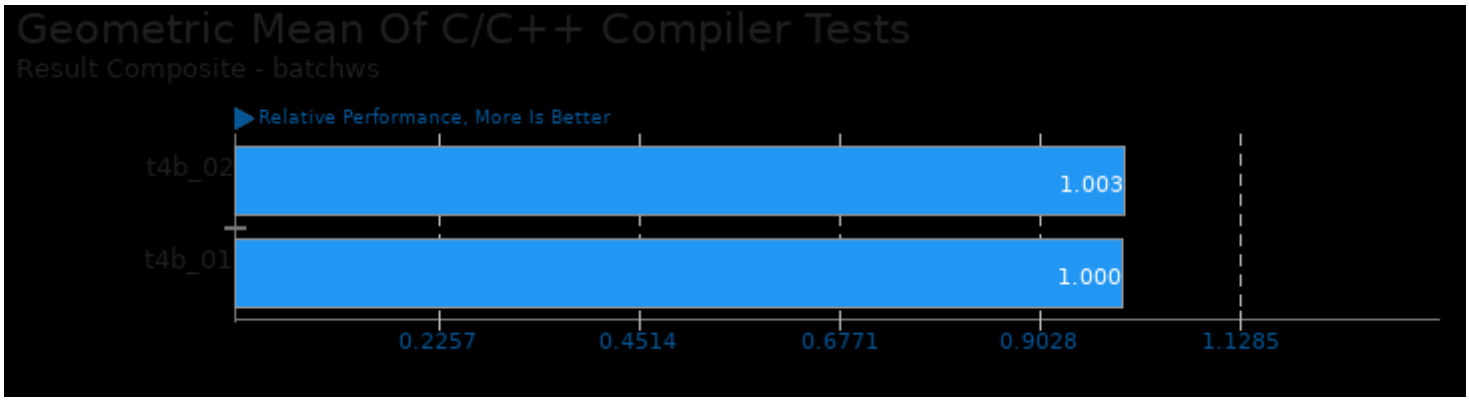

Apache Benchmark 2.2.21
Static Web Page Serving
Requests Per Second, More Is Better
t4b_01
SE +/- 632.05, N = 3
34477.73
t4b_02
SE +/- 529.84, N = 3
35754.36
8K
16K
24K
32K
40K
PHPBench 0.8.1
PHP Benchmark Suite
Score, More Is Better
t4b_01
SE +/- 482.31, N = 3
95364
t4b_02
SE +/- 867.31, N = 3
94916
20K
40K
60K
80K
100K

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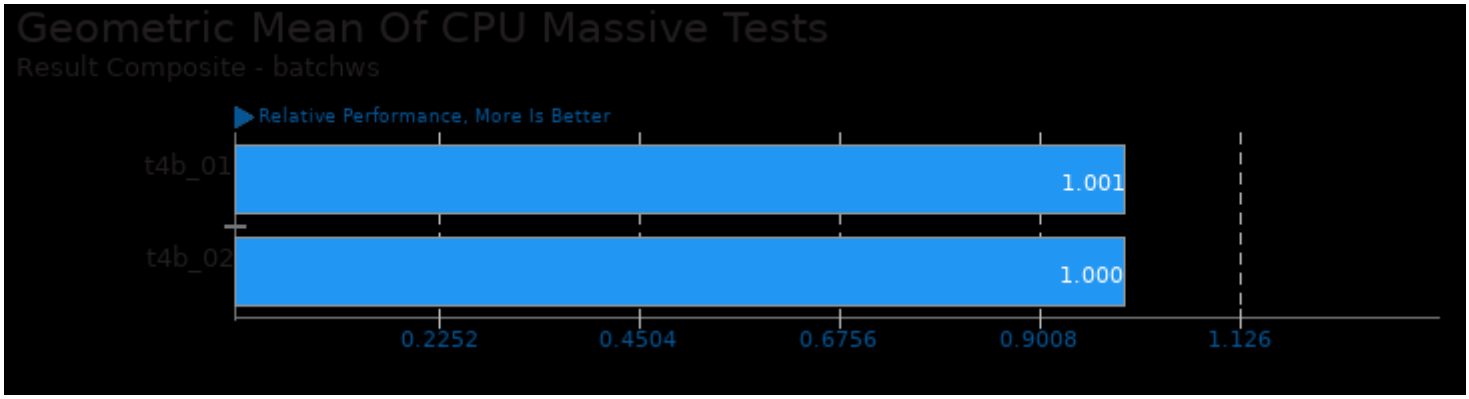
These geometric means are based upon test groupings / test suites for this result file.



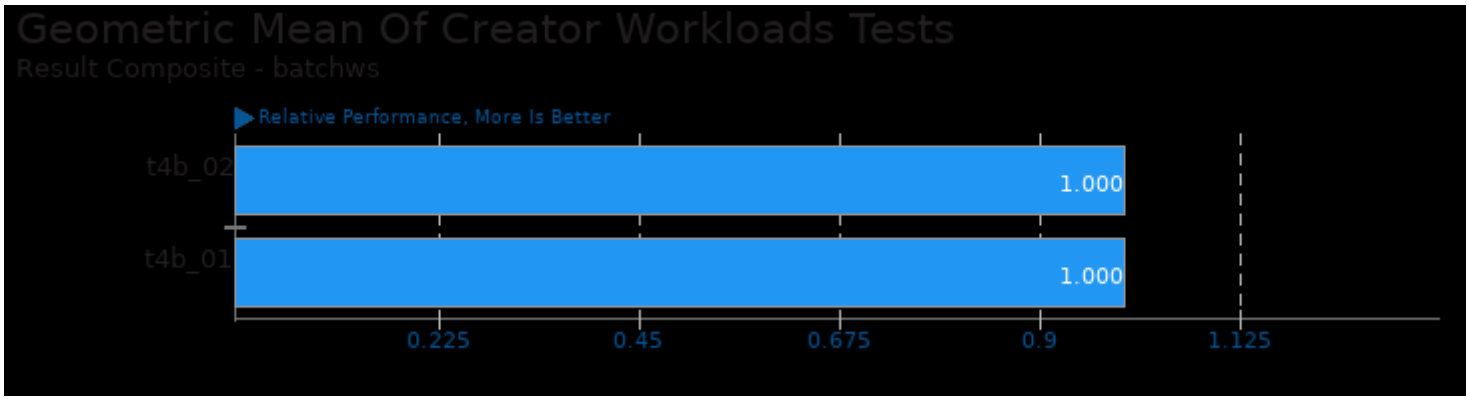
Geometric mean based upon tests: pts/himeno, pts/hmmer and pts/mafft



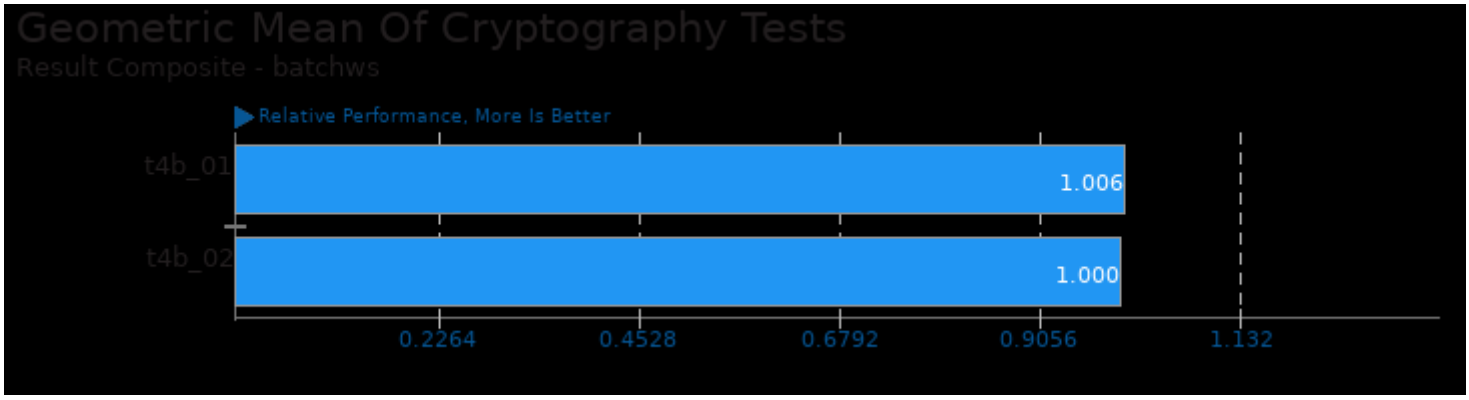
Geometric mean based upon tests: pts/mafft, pts/graphics-magick, pts/himeno, pts/hmmer, pts/c-ray, pts/encode-mp3, pts/pgbench, pts/apache, pts/john-the-ripper, pts/openssl and pts/nginx



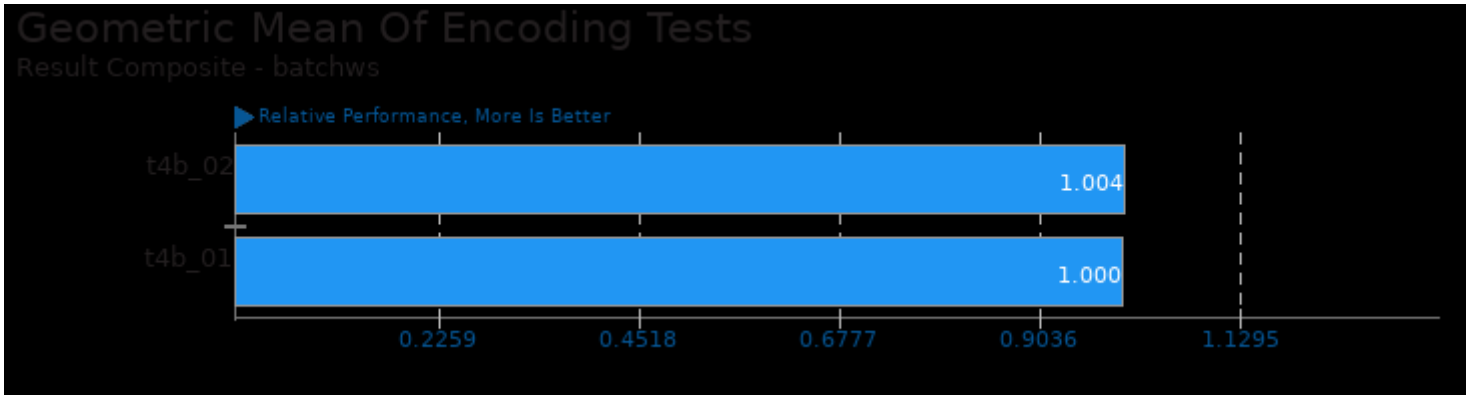
Geometric mean based upon tests: pts/apache, pts/c-ray, pts/compress-pbzip2, pts/crafty, pts/encode-mp3, pts/graphics-magick, pts/himeno, pts/hmmer, pts/john-the-ripper, pts/openssl, pts/mafft, pts/nginx, pts/npb, pts/pgbench, pts/phpbench, pts/povray and pts/stream



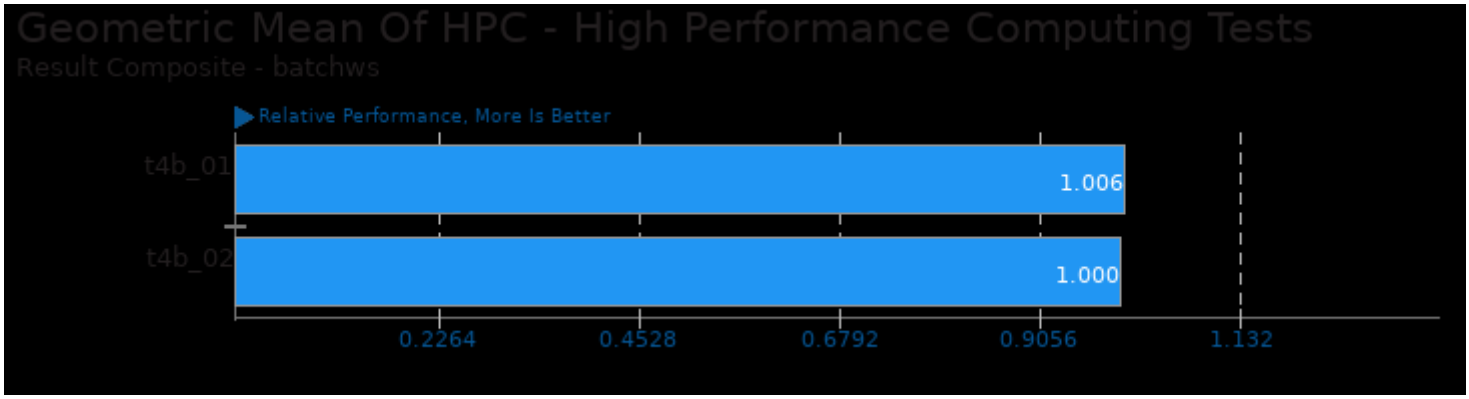
Geometric mean based upon tests: pts/c-ray, pts/povray, pts/ffmpeg, pts/encode-mp3 and pts/graphics-magick



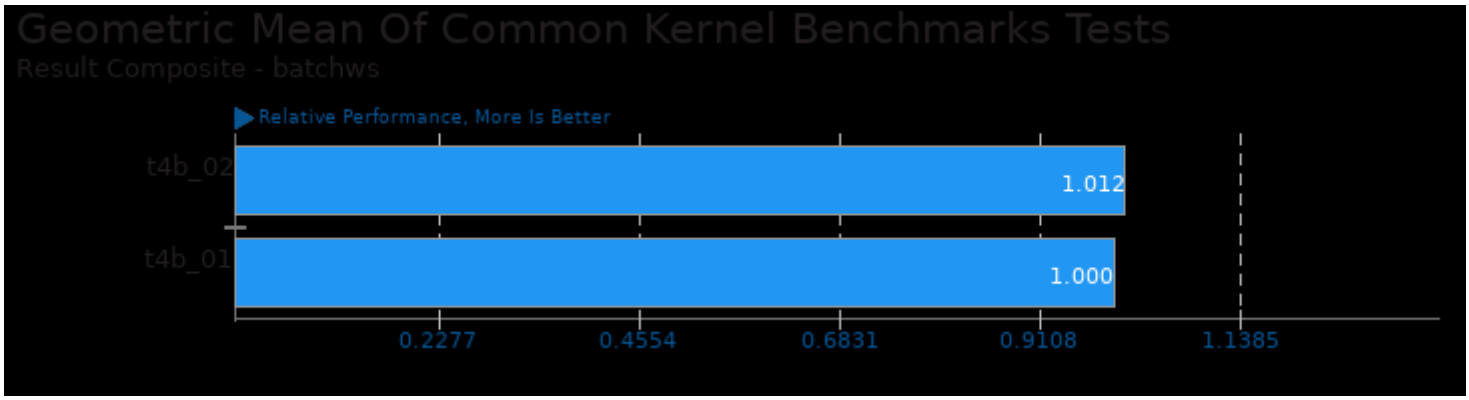
Geometric mean based upon tests: pts/openssl and pts/john-the-ripper



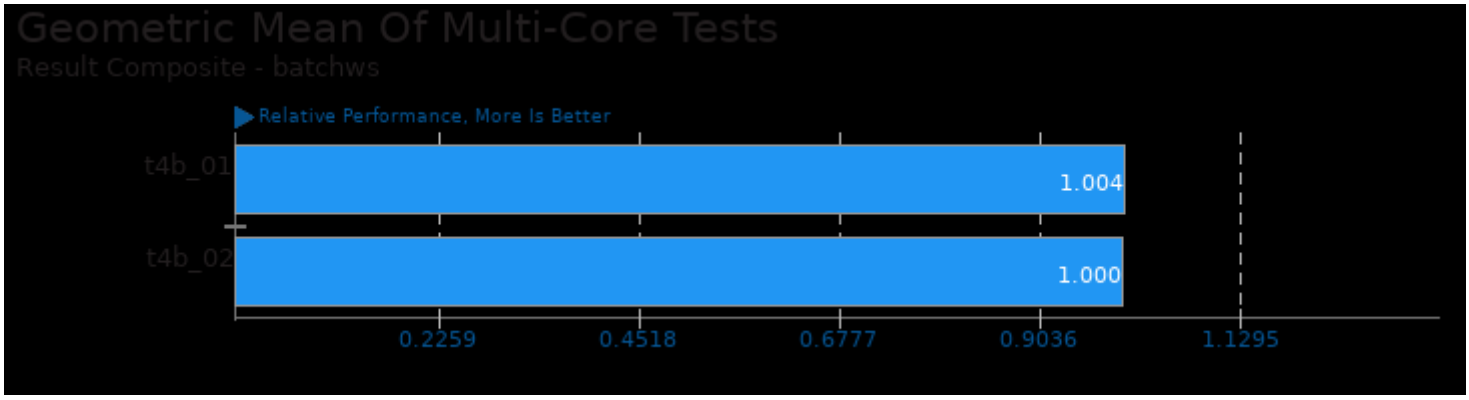
Geometric mean based upon tests: pts/encode-mp3 and pts/ffmpeg



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



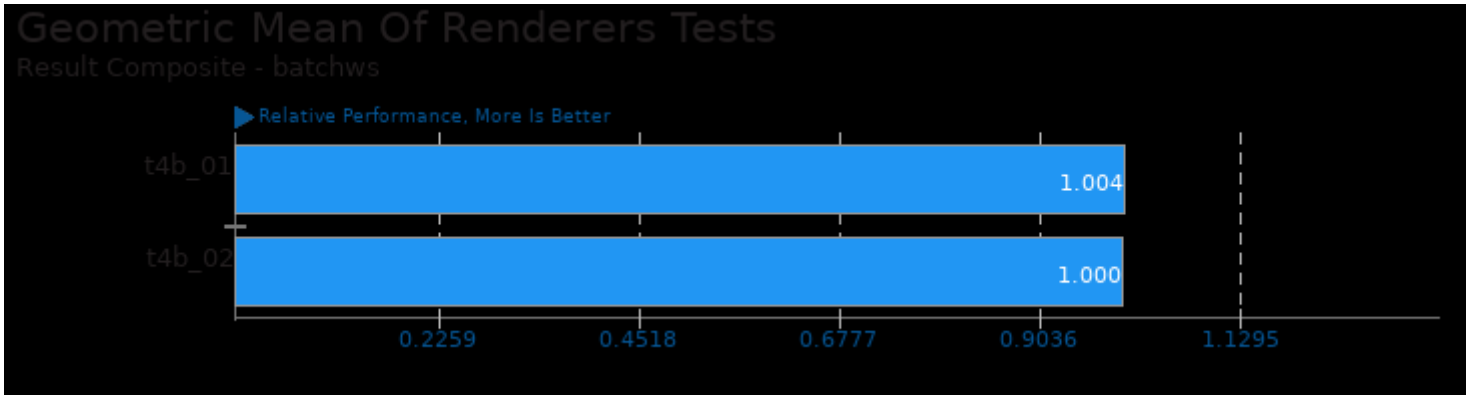
Geometric mean based upon tests: pts/apache, pts/pgbench and pts/openssl



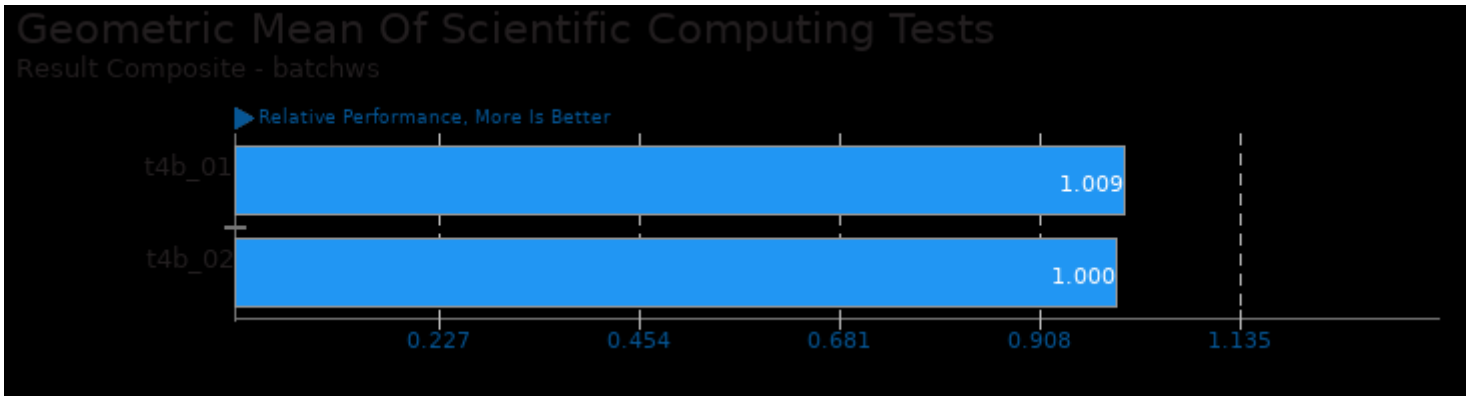
Geometric mean based upon tests: pts/c-ray, pts/povray, pts/ffmpeg, pts/npb, pts/john-the-ripper, pts/graphics-magick, pts/compress-pbzip2 and pts/pgbench



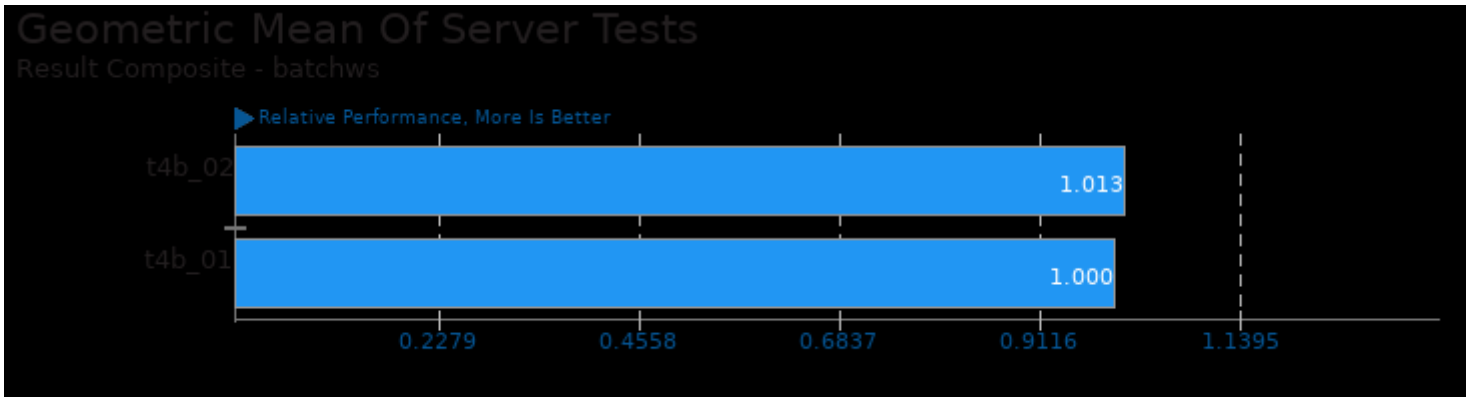
Geometric mean based upon tests: pts/c-ray and pts/povray



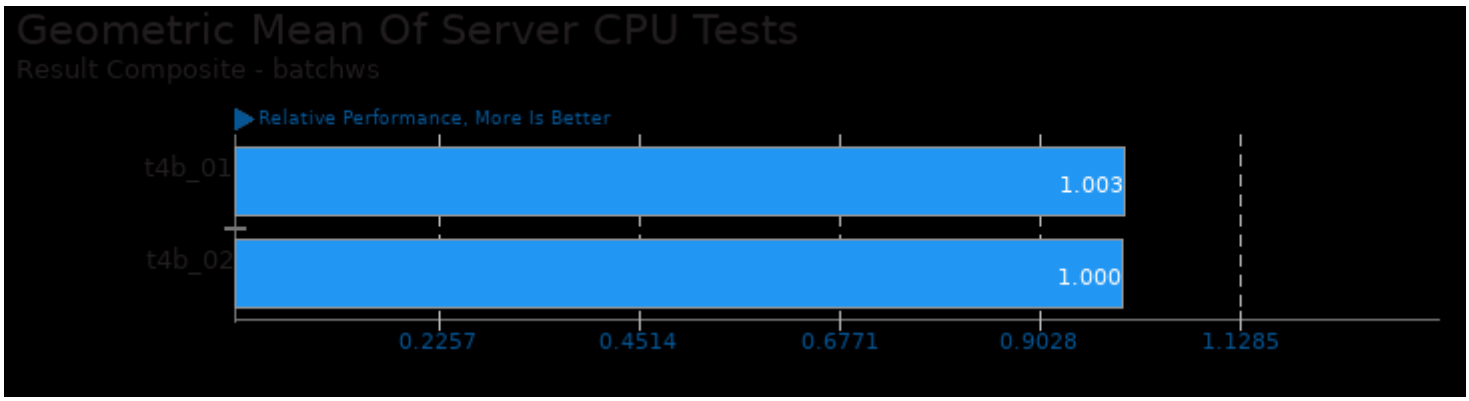
Geometric mean based upon tests: pts/c-ray and pts/povray



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

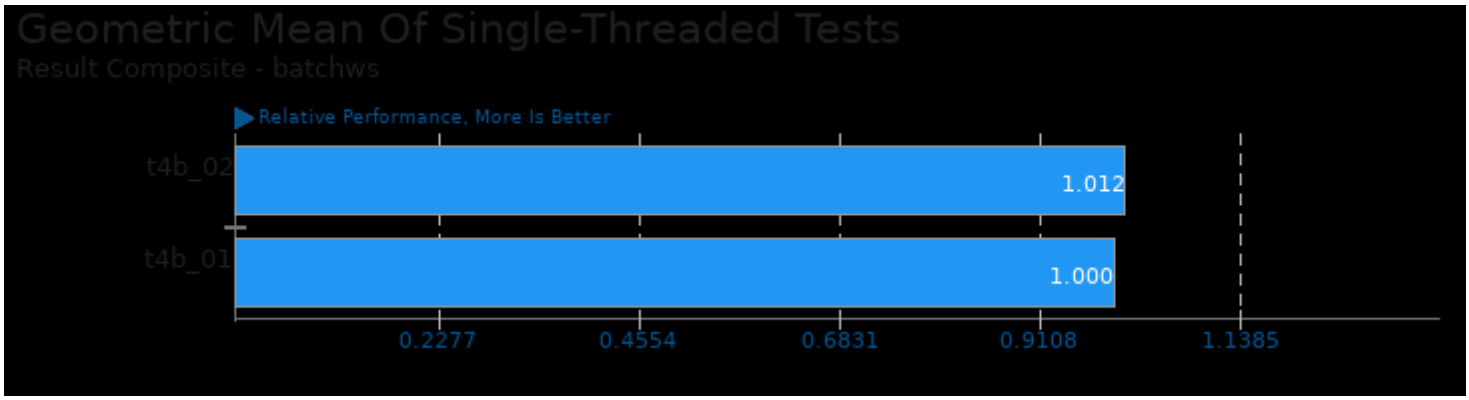


Geometric mean based upon tests: pts/apache, pts/nginx, pts/pgbench, pts/phpbench and pts/openssl



Geometric mean based upon tests: pts/npb, pts/john-the-ripper, pts/himeno, pts/c-ray, pts/povray, pts/openssl, pts/phpbench and pts/stream

batchws



Geometric mean based upon tests: pts/encode-mp3, pts/phpbench and pts/nginx

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