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ZEN3

Test Systems:

yyyy

Processor: AMD EPYC 7J13 64-Core @ 2.55GHz (64 Cores / 128 Threads), Motherboard: (1.4.1 BIOS), Memory: 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16128 0MHz, Disk: 1024GB ORACLE BlockVolume Disk + 1600GB ORACLE BlockVolume Disk, Graphics: NICE DCV Virtual Display, Monitor: DCVDspay4K, Network: Oracle VirtIO

OS: Microsoft Windows Server 2019 Standard Build 17763, Kernel: 10.0 (x86_64), Display Driver: 9.25.36.24, File-System: NTFS, Screen Resolution: 1680x1050

Processor Notes: CPU Microcode: 6500000100000000
Security Notes: __user pointer sanitization: Disabled + STIBP: Enabled

yayrah

Processor: AMD EPYC 7J13 64-Core @ 2.55GHz (64 Cores / 128 Threads), Motherboard: (1.4.1 BIOS), Memory: 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16128 0MHz, Disk: 1024GB ORACLE BlockVolume Disk + 1600GB ORACLE BlockVolume Disk, Graphics: NICE DCV Virtual Display, Monitor: DCVDspay4K, Network: Oracle VirtIO

OS: Microsoft Windows Server 2019 Standard Build 17763, Kernel: 10.0 (x86_64), Display Driver: 9.25.36.24, File-System: NTFS, Screen Resolution: 1024x768

Processor Notes: CPU Microcode: 6500000100000000
Security Notes: __user pointer sanitization: Disabled + STIBP: Enabled

epyczen3

Processor: AMD EPYC 7J13 64-Core @ 2.55GHz (64 Cores / 128 Threads), Motherboard: (1.4.1 BIOS), Memory: 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16128 0MHz, Disk: 1024GB ORACLE BlockVolume Disk + 1600GB ORACLE BlockVolume Disk, Graphics: NICE DCV Virtual Display, Monitor: DCVDspay4K, Network: Oracle VirtIO

OS: Microsoft Windows Server 2019 Standard Build 17763, Kernel: 10.0 (x86_64), Display Driver: 9.25.36.24, File-System: NTFS, Screen Resolution: 1280x1024

Processor Notes: CPU Microcode: 6500000100000000
Java Notes: OpenJDK Runtime Environment 18.9 (build 11.0.6+10-LTS)
Security Notes: __user pointer sanitization: Disabled + STIBP: Enabled

7J13

Processor: AMD EPYC 7J13 64-Core @ 2.55GHz (64 Cores / 128 Threads), Motherboard: (1.4.1 BIOS), Memory: 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16384 + 16128 0MHz, Disk: 1024GB ORACLE BlockVolume Disk + 1600GB ORACLE BlockVolume Disk, Graphics: NICE DCV Virtual Display, Monitor: DCVDspay4K, Network: Oracle VirtIO

OS: Microsoft Windows Server 2019 Standard Build 17763, Kernel: 10.0 (x86_64), Display Driver: 9.25.36.24, Compiler: GCC 8.3.0, File-System: NTFS, Screen Resolution: 1280x1024

Processor Notes: CPU Microcode: 6500000100000000
Security Notes: __user pointer sanitization: Disabled + STIBP: Enabled

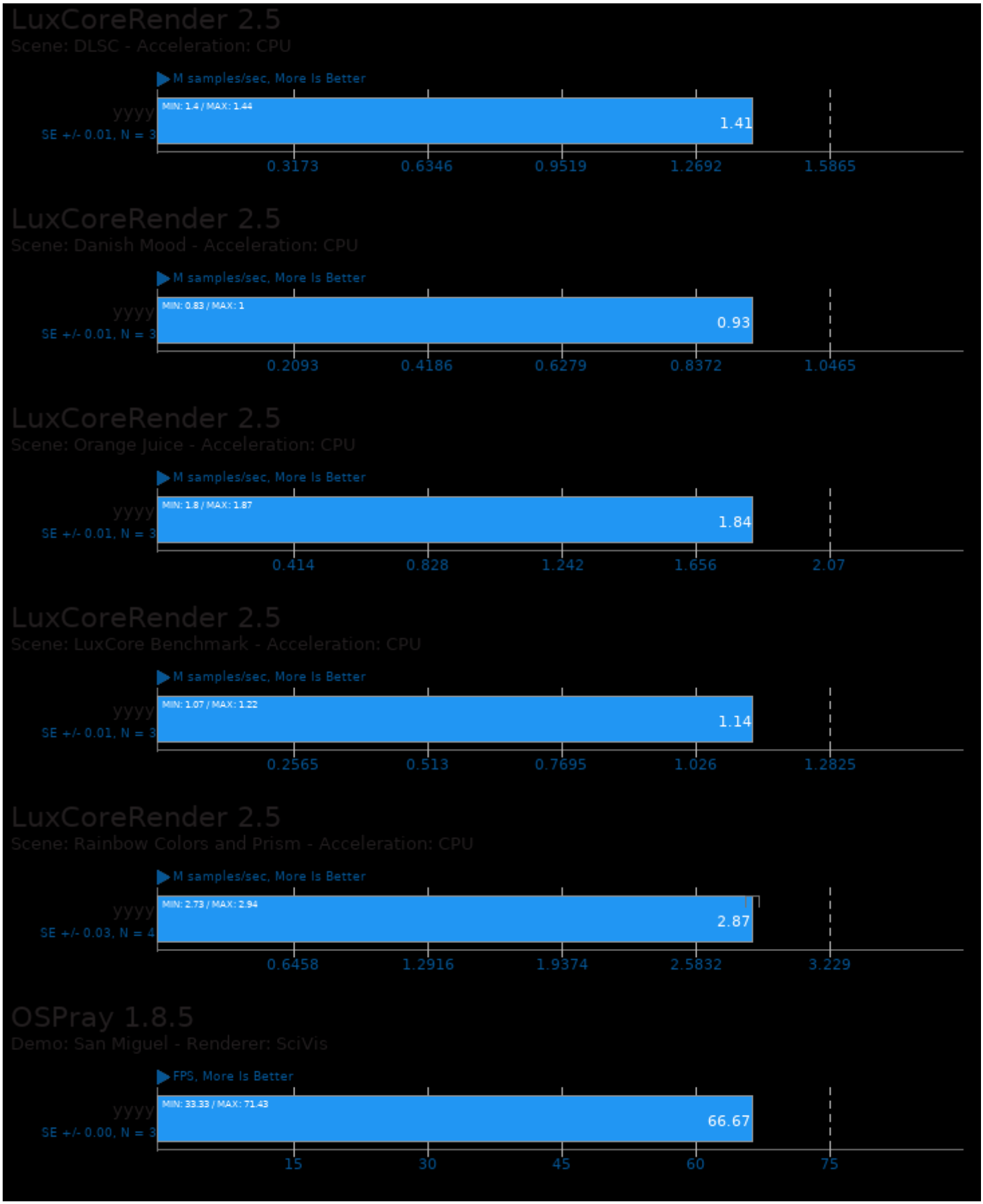
	yyyy	yayrah	epyczen3	7J13
LuxCoreRender - DLSC - CPU (M samples/sec)	1.41			
Standard Deviation	1.6%			
LuxCoreRender - Danish Mood - CPU (M samples/sec)	0.93			
Standard Deviation	1.6%			
LuxCoreRender - Orange Juice - CPU (M samples/sec)	1.84			
Standard Deviation	0.9%			

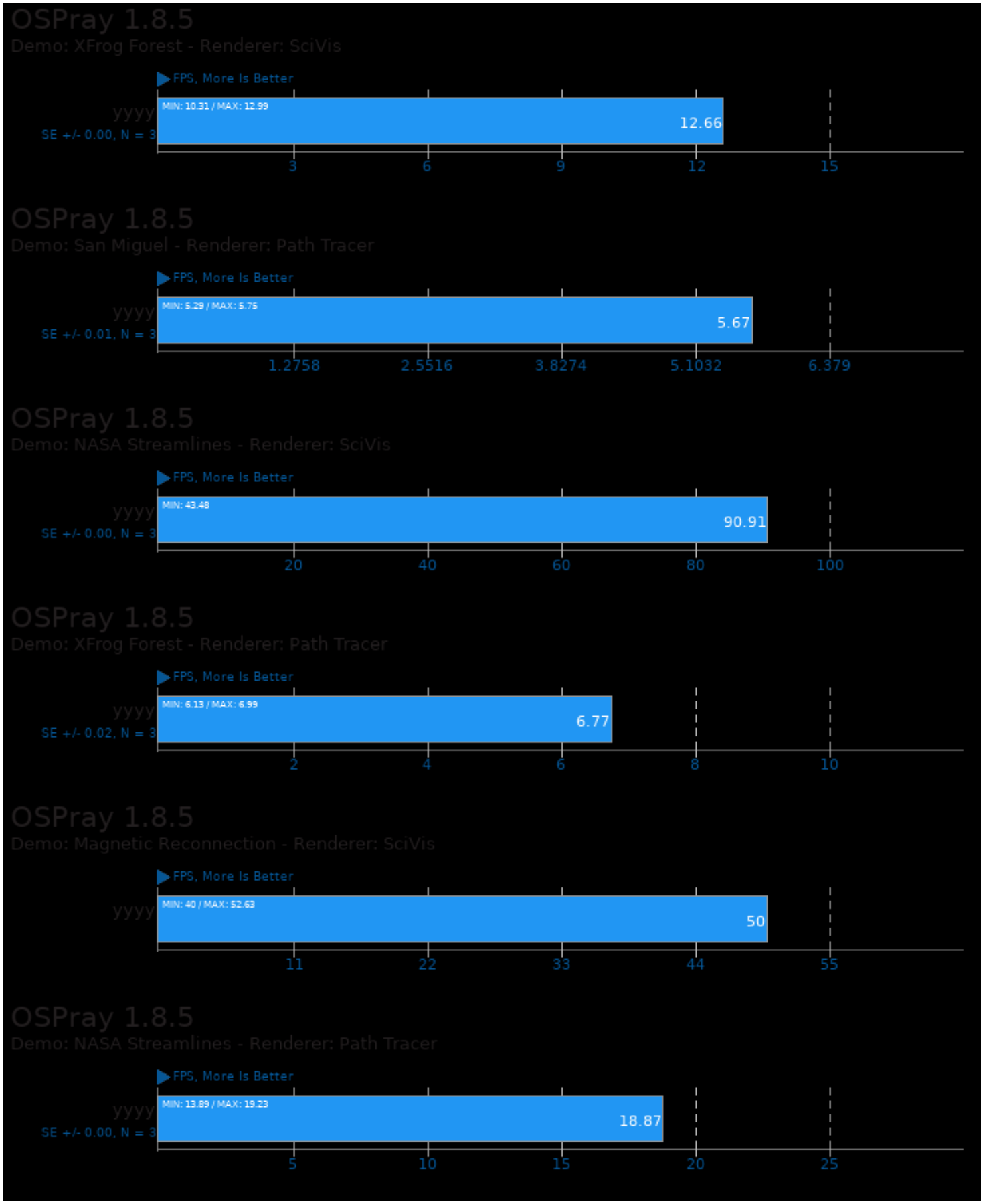
LuxCoreRender - LuxCore Benchmark - CPU (M samples/sec)	1.14		
Standard Deviation	1.3%		
LuxCoreRender - R.C.a.P - CPU (M samples/sec)	2.87		
Standard Deviation	2.3%		
OSPray - San Miguel - SciVis (FPS)	66.67		
Standard Deviation	0%		
OSPray - XFrog Forest - SciVis (FPS)	12.66		
Standard Deviation	0%		
OSPray - San Miguel - Path Tracer (FPS)	5.67		
Standard Deviation	0.3%		
OSPray - NASA Streamlines - SciVis (FPS)	90.91		
Standard Deviation	0%		
OSPray - XFrog Forest - Path Tracer (FPS)	6.77		
Standard Deviation	0.4%		
OSPray - M.R - SciVis (FPS)	50		
OSPray - NASA Streamlines - Path Tracer (FPS)	18.87		
Standard Deviation	0%		
OSPray - M.R - Path Tracer (FPS)	500		
C-Ray - Total Time - 4.1.R.P.P (sec)	15.660		
Standard Deviation	8.1%		
Smallpt - G.I.R.1.S (sec)	3.795		
Standard Deviation	0.9%		
AOBench - 2048 x 2048 - Total Time (sec)	74.206		
Standard Deviation	0.6%		
IndigoBench - CPU - Bedroom (M samples/s)	5.888		
Standard Deviation	1.1%		
IndigoBench - CPU - Supercar (M samples/s)	12.700		
Standard Deviation	0.7%		
Blender - BMW27 - CPU-Only (sec)	**44.91**		**39.79**
Normalized	88.6%		100%
Standard Deviation	1.5%		1%
Blender - Classroom - CPU-Only (sec)	104.06		
BlogBench - Read (Final Score)		13311	
Standard Deviation		8.5%	
BlogBench - Write (Final Score)		422	
Standard Deviation		6.7%	
t-test1 - 1 (sec)		30.632	
Standard Deviation		0.3%	
t-test1 - 2 (sec)		503.788	
Standard Deviation		1.1%	
LeelaChessZero - BLAS (Nodes/s)		352	
Standard Deviation		1.1%	

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NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	0.56991
Standard Deviation	1.1%
lzbench - XZ 0 - Compression (MB/s)	33
lzbench - XZ 0 - Decompression	110
lzbench - Zstd 1 - Compression (MB/s)	408
Standard Deviation	1%
lzbench - Zstd 1 - Decompression	689
Standard Deviation	0.4%
lzbench - Brotli 0 - Compression	337
Standard Deviation	0.2%
lzbench - Brotli 0 - Decompression (MB/s)	522
Standard Deviation	0.2%
lzbench - Libdeflate 1 - Compression (MB/s)	211
Standard Deviation	0.3%
lzbench - Libdeflate 1 - Decompression (MB/s)	1071
Standard Deviation	0.1%
Timed MrBayes Analysis - P.P.A (sec)	801.543
Standard Deviation	0.2%
BLAKE2 (Cycles/Byte)	4.90
Standard Deviation	0.2%
Go Benchmarks - http (ns/op)	9824
Standard Deviation	0.5%
Go Benchmarks - json (ns/op)	2257142
Standard Deviation	57.6%
Go Benchmarks - build (ns/op)	28716806200
Standard Deviation	1.5%
Go Benchmarks - garbage (ns/op)	822717
Standard Deviation	2.3%
Java SciMark - Composite (Mflops)	2516
Standard Deviation	0.4%
Java SciMark - Monte Carlo (Mflops)	1293
Standard Deviation	0.4%
Java SciMark - F.F.T (Mflops)	1839
Standard Deviation	0.7%
Java SciMark - S.M.M (Mflops)	2245
Standard Deviation	0.2%
Java SciMark - D.L.M.F (Mflops)	5639
Standard Deviation	0.8%
Java SciMark - J.S.O.R (Mflops)	1562
Standard Deviation	0.4%
DaCapo Benchmark - H2 (msec)	4233
Standard Deviation	4.2%
DaCapo Benchmark - Jython (msec)	4632
Standard Deviation	0.6%
DaCapo Benchmark - Tradesoap	8765
Standard Deviation	2.6%

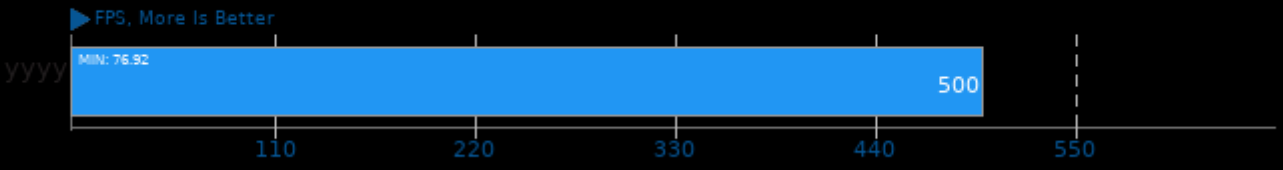
DaCapo Benchmark - Tradebeans (msec)	5122
Standard Deviation	1.7%
Renaissance - Scala Dotty (ms)	1627
Standard Deviation	1.8%


LuxCoreRender 2.5
Scene: DLSC - Acceleration: CPU
M samples/sec, More Is Better
yyyy
SE +/- 0.01, N = 3
MIN: 1.4 / MAX: 1.44
1.41
0.3173
0.6346
0.9519
1.2692
1.5865
LuxCoreRender 2.5
Scene: Danish Mood - Acceleration: CPU
M samples/sec, More Is Better
yyyy
SE +/- 0.01, N = 3
MIN: 0.83 / MAX: 1
0.93
0.2093
0.4186
0.6279
0.8372
1.0465
LuxCoreRender 2.5
Scene: Orange Juice - Acceleration: CPU
M samples/sec, More Is Better
yyyy
SE +/- 0.01, N = 3
MIN: 1.8 / MAX: 1.87
1.84
0.414
0.828
1.242
1.656
2.07
LuxCoreRender 2.5
Scene: LuxCore Benchmark - Acceleration: CPU
M samples/sec, More Is Better
yyyy
SE +/- 0.01, N = 3
MIN: 1.07 / MAX: 1.22
1.14
0.2565
0.513
0.7695
1.026
1.2825
LuxCoreRender 2.5
Scene: Rainbow Colors and Prism - Acceleration: CPU
M samples/sec, More Is Better
yyyy
SE +/- 0.03, N = 4
MIN: 2.73 / MAX: 2.94
2.87
0.6458
1.2916
1.9374
2.5832
3.229
OSPray 1.8.5
Demo: San Miguel - Renderer: SciVis
FPS, More Is Better
yyyy
SE +/- 0.00, N = 3
MIN: 33.33 / MAX: 71.43
66.67
15
30
45
60
75


OSPray 1.8.5
Demo: XFrog Forest - Renderer: SciVis
FPS, More Is Better
yyyy
SE +/- 0.00, N = 3
MIN: 10.31 / MAX: 12.99
12.66
3
6
9
12
15
OSPray 1.8.5
Demo: San Miguel - Renderer: Path Tracer
FPS, More Is Better
yyyy
SE +/- 0.01, N = 3
MIN: 5.29 / MAX: 5.75
5.67
1.2758
2.5516
3.8274
5.1032
6.379
OSPray 1.8.5
Demo: NASA Streamlines - Renderer: SciVis
FPS, More Is Better
yyyy
SE +/- 0.00, N = 3
MIN: 43.48
90.91
20
40
60
80
100
OSPray 1.8.5
Demo: XFrog Forest - Renderer: Path Tracer
FPS, More Is Better
yyyy
SE +/- 0.02, N = 3
MIN: 6.13 / MAX: 6.99
6.77
2
4
6
8
10
OSPray 1.8.5
Demo: Magnetic Reconnection - Renderer: SciVis
FPS, More Is Better
yyyy
MIN: 40 / MAX: 52.63
50
11
22
33
44
55
OSPray 1.8.5
Demo: NASA Streamlines - Renderer: Path Tracer
FPS, More Is Better
yyyy
SE +/- 0.00, N = 3
MIN: 13.89 / MAX: 19.23
18.87
5
10
15
20
25

OSPray 1.8.5

Demo: Magnetic Reconnection - Renderer: Path Tracer



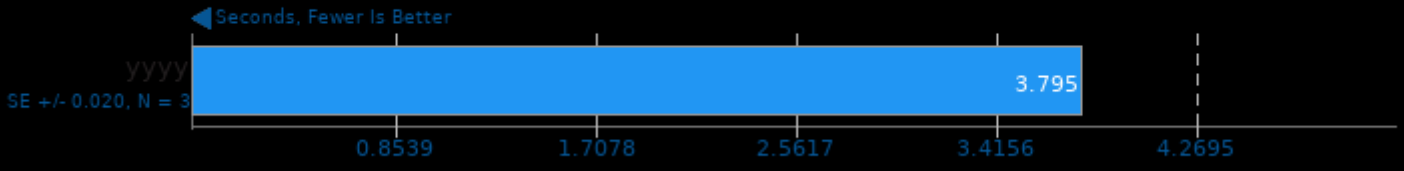
C-Ray 1.1

Total Time - 4K, 16 Rays Per Pixel



Smallpt 1.0

Global Illumination Renderer; 128 Samples



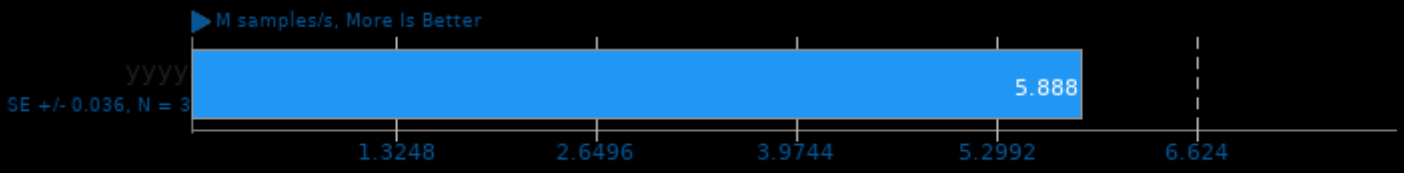
AOBench

Size: 2048 x 2048 - Total Time



IndigoBench 4.4

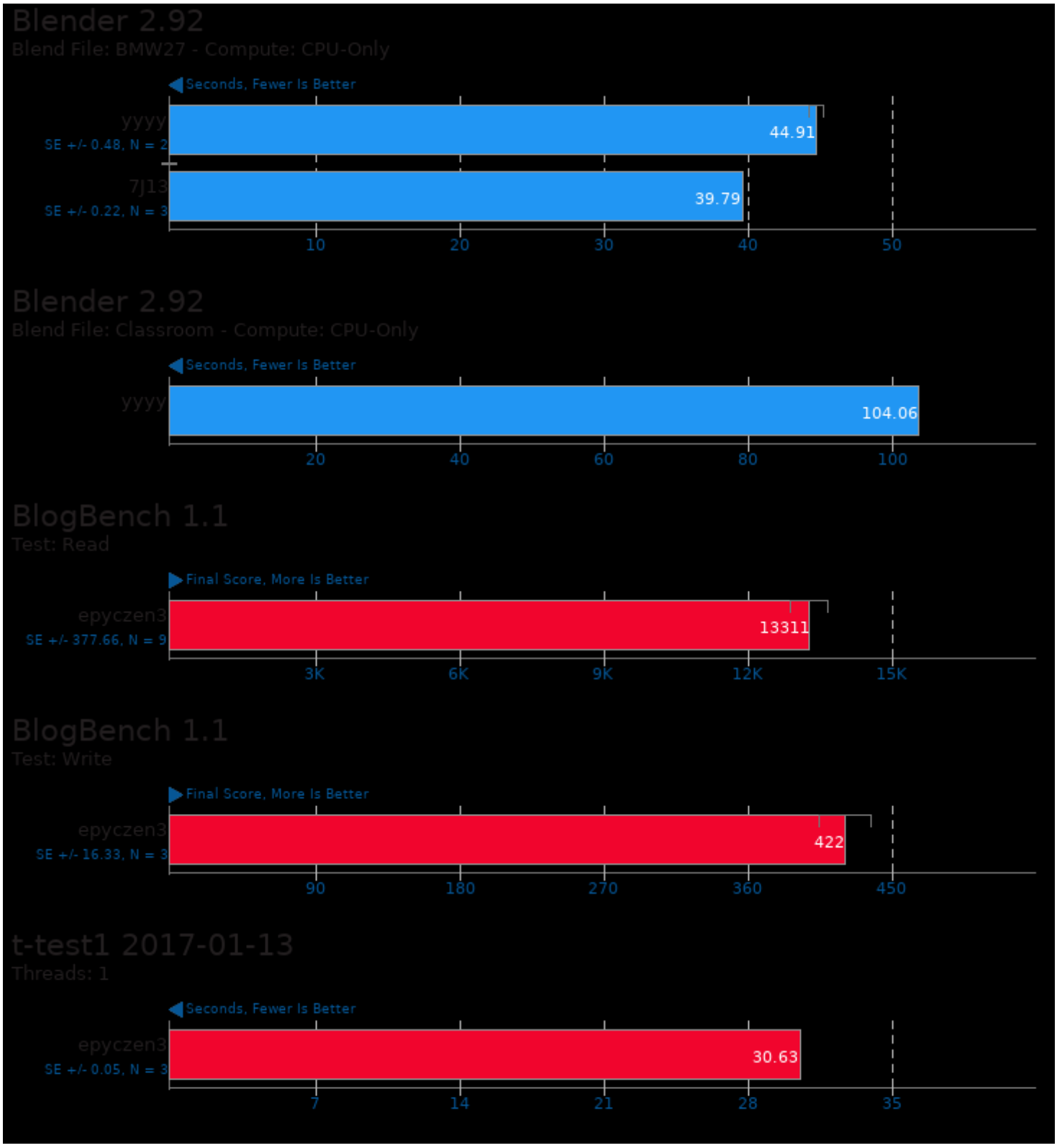
Acceleration: CPU - Scene: Bedroom

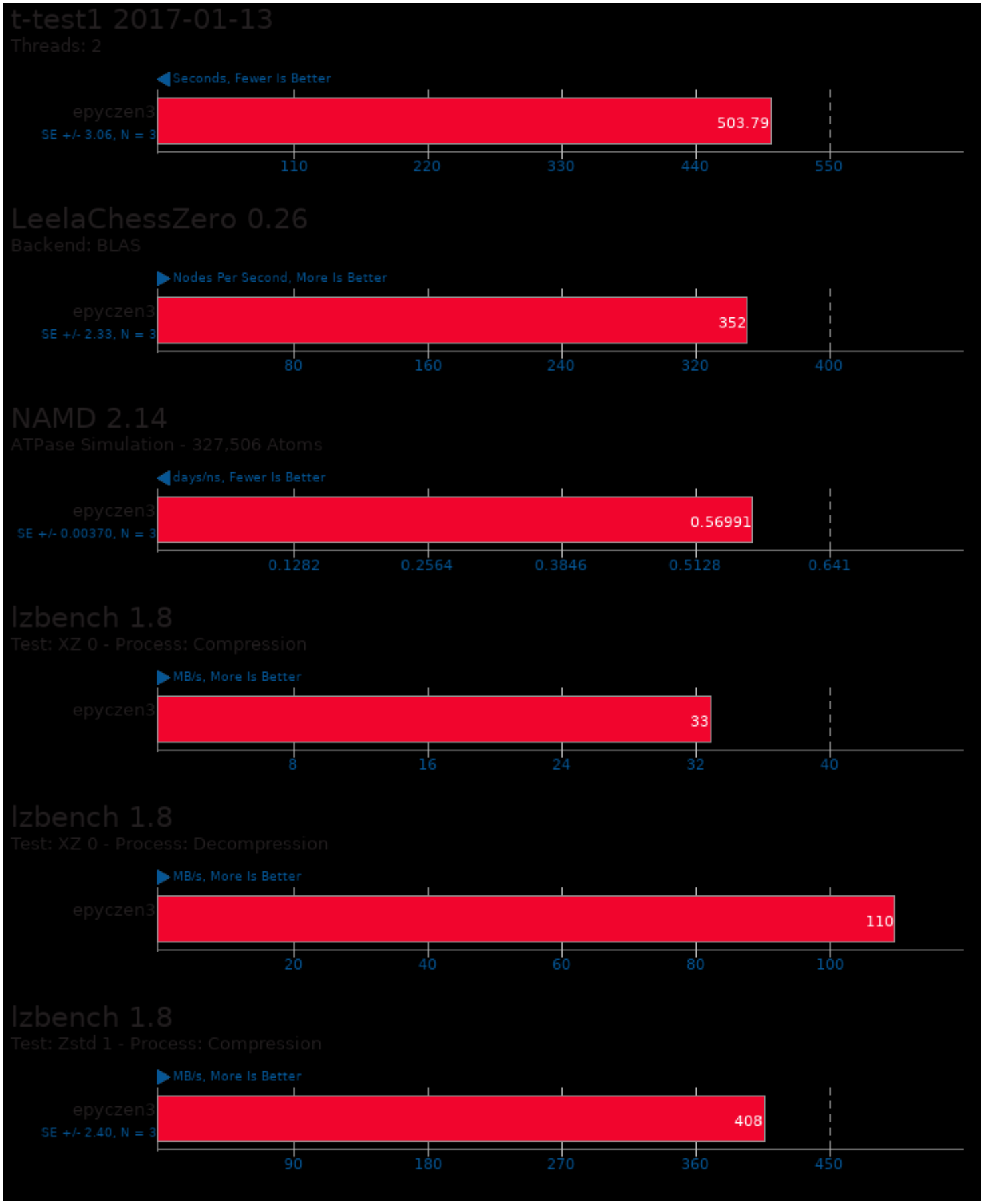


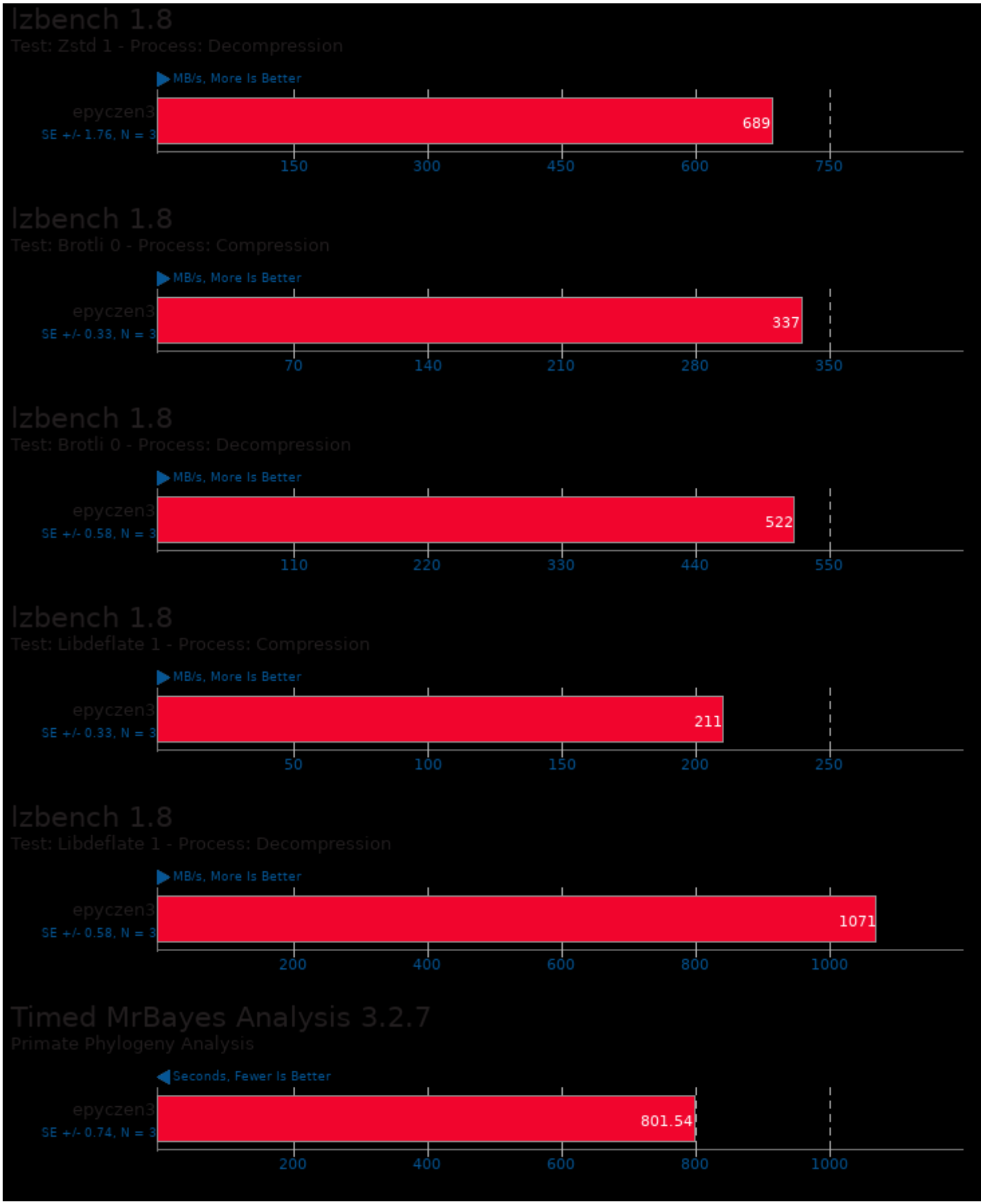
IndigoBench 4.4

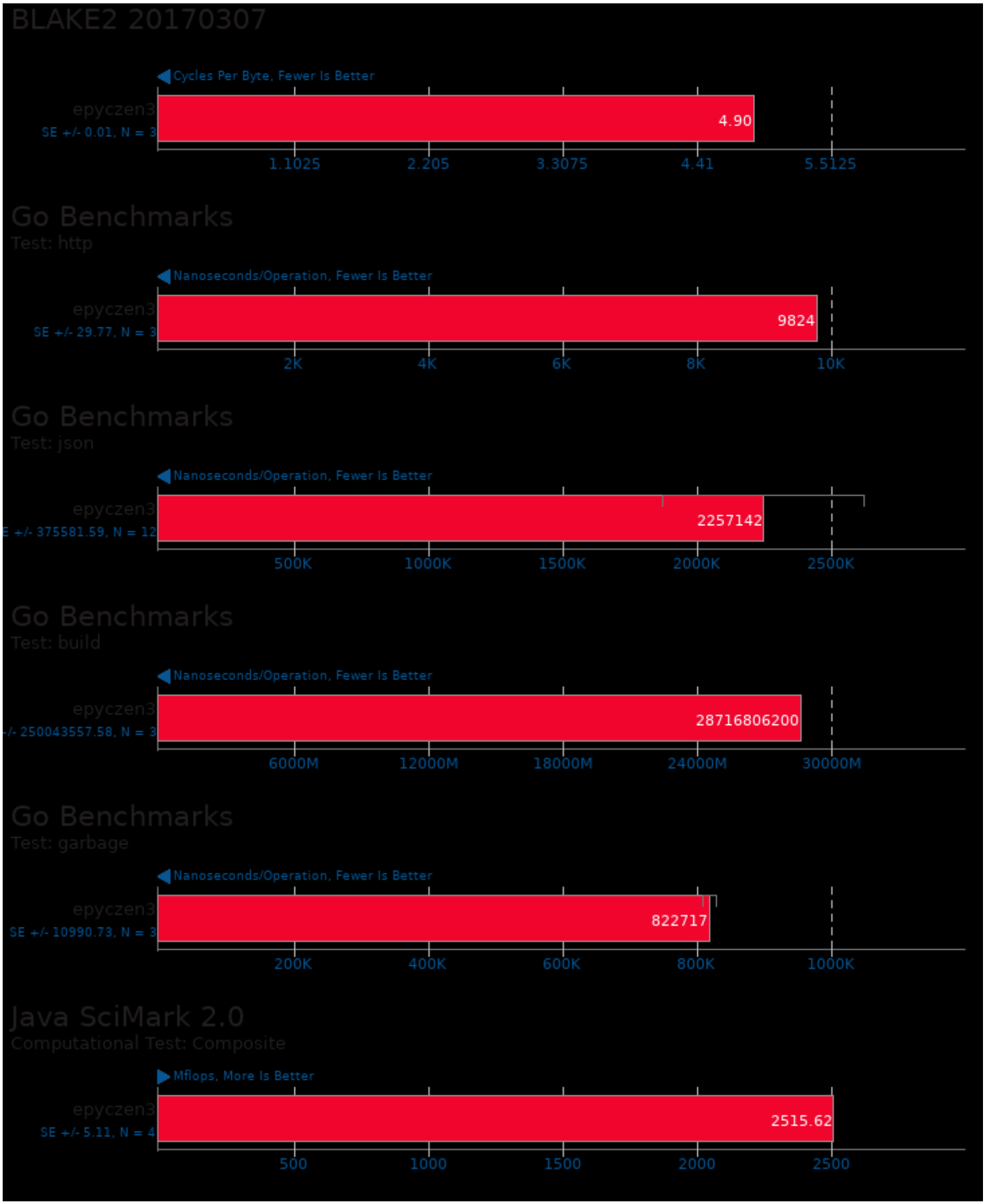
Acceleration: CPU - Scene: Supercar

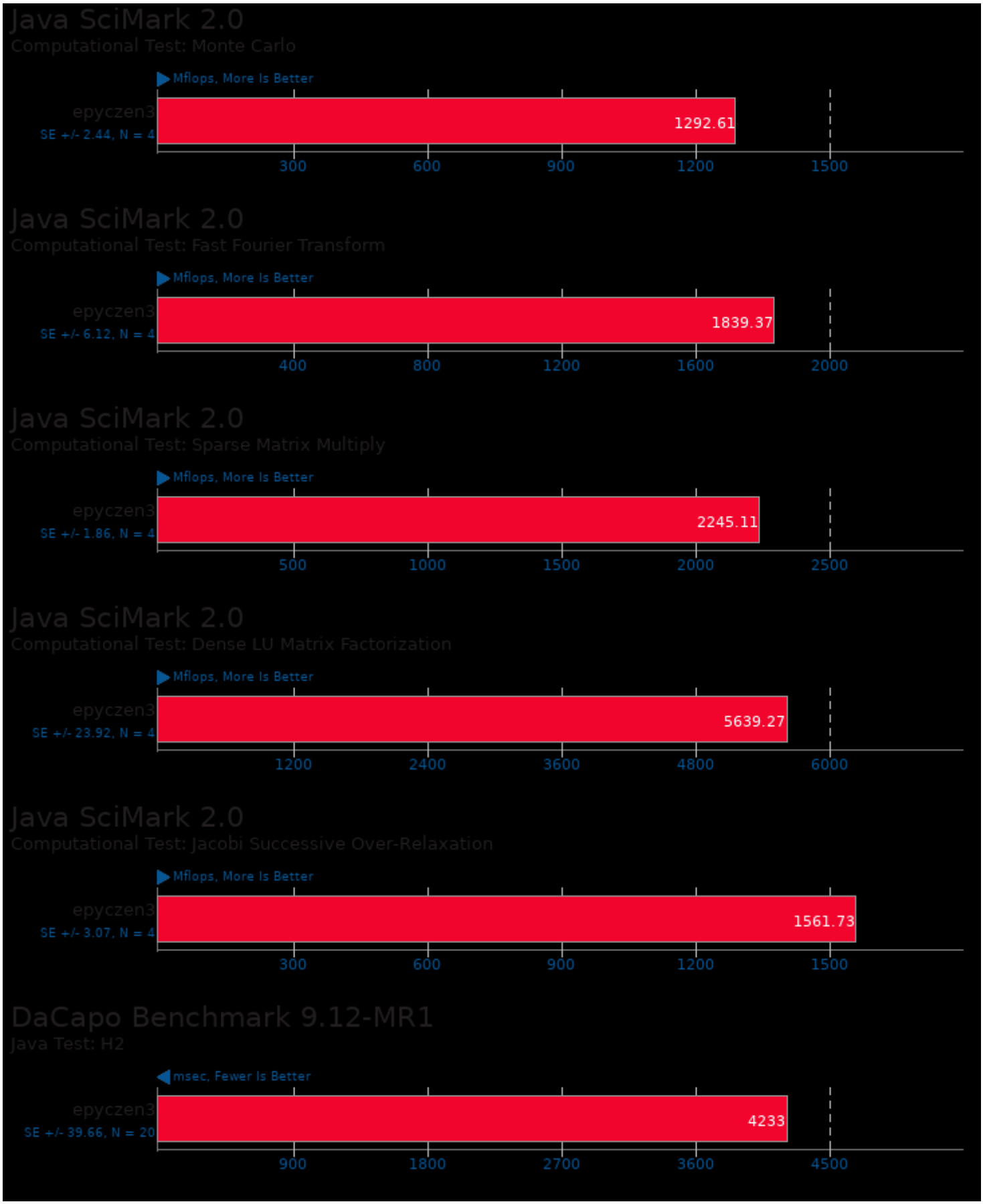


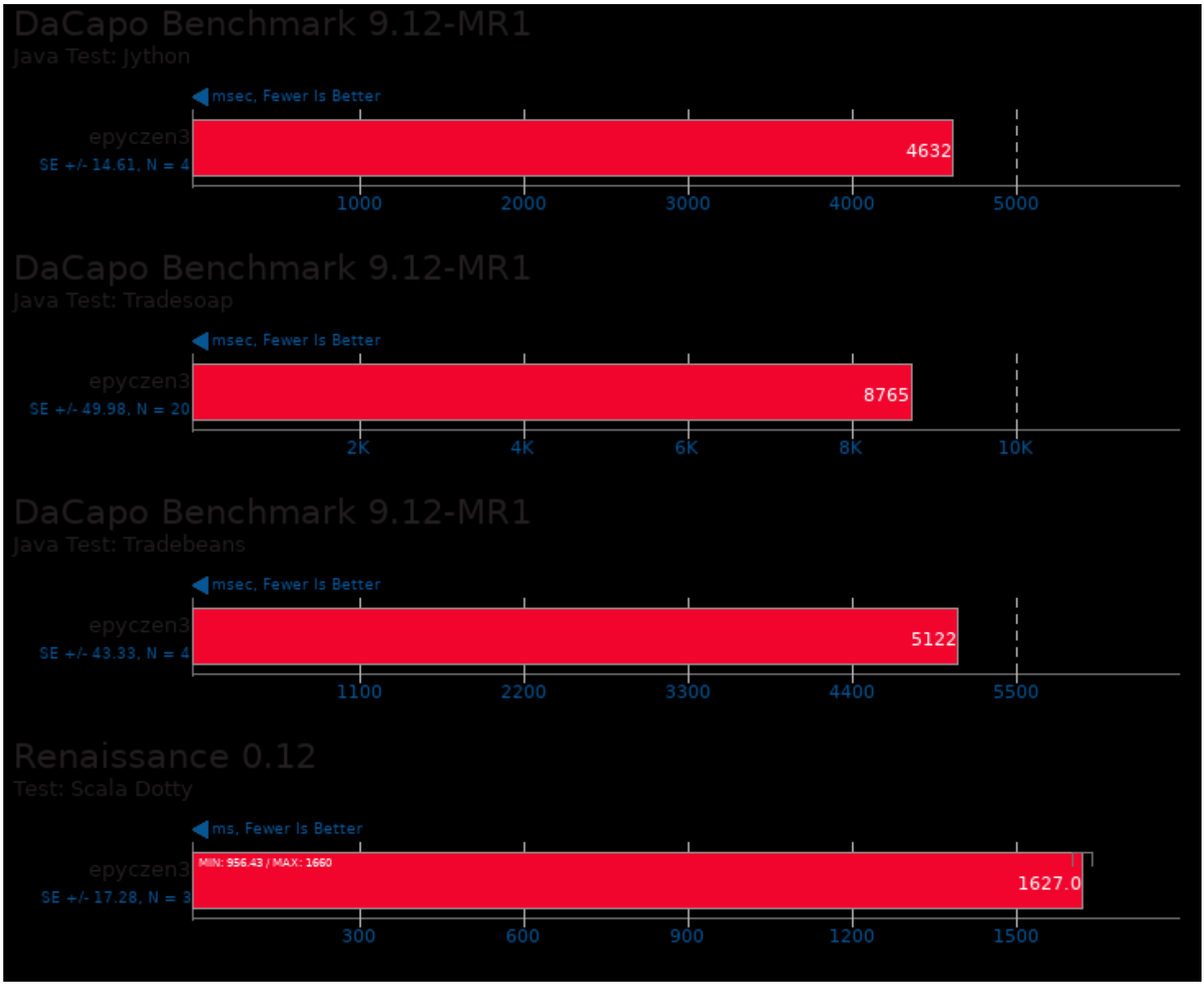

Blender 2.92
Blend File: BMW27 - Compute: CPU-Only
Seconds, Fewer Is Better
yyyy
SE +/- 0.48, N = 2
44.91
7j13
SE +/- 0.22, N = 3
39.79
10
20
30
40
50
Blender 2.92
Blend File: Classroom - Compute: CPU-Only
Seconds, Fewer Is Better
yyyy
104.06
20
40
60
80
100
BlogBench 1.1
Test: Read
Final Score, More Is Better
epyczen3
SE +/- 377.66, N = 9
13311
3K
6K
9K
12K
15K
BlogBench 1.1
Test: Write
Final Score, More Is Better
epyczen3
SE +/- 16.33, N = 3
422
90
180
270
360
450
t-test1 2017-01-13
Threads: 1
Seconds, Fewer Is Better
epyczen3
SE +/- 0.05, N = 3
30.63
7
14
21
28
35


t-test1 2017-01-13
Threads: 2
Seconds, Fewer Is Better
epyczen3
SE +/- 3.06, N = 3
503.79
110
220
330
440
550
LeelaChessZero 0.26
Backend: BLAS
Nodes Per Second, More Is Better
epyczen3
SE +/- 2.33, N = 3
352
80
160
240
320
400
NAMD 2.14
ATPase Simulation - 327,506 Atoms
days/ns, Fewer Is Better
epyczen3
SE +/- 0.00370, N = 3
0.56991
0.1282
0.2564
0.3846
0.5128
0.641
lzbench 1.8
Test: XZ 0 - Process: Compression
MB/s, More Is Better
epyczen3
33
8
16
24
32
40
lzbench 1.8
Test: XZ 0 - Process: Decompression
MB/s, More Is Better
epyczen3
110
20
40
60
80
100
lzbench 1.8
Test: Zstd 1 - Process: Compression
MB/s, More Is Better
epyczen3
SE +/- 2.40, N = 3
408
90
180
270
360
450


lzbench 1.8
Test: Zstd 1 - Process: Decompression
MB/s, More Is Better
epyczen3
SE +/- 1.76, N = 3
689
150
300
450
600
750
lzbench 1.8
Test: Brotli 0 - Process: Compression
MB/s, More Is Better
epyczen3
SE +/- 0.33, N = 3
337
70
140
210
280
350
lzbench 1.8
Test: Brotli 0 - Process: Decompression
MB/s, More Is Better
epyczen3
SE +/- 0.58, N = 3
522
110
220
330
440
550
lzbench 1.8
Test: Libdeflate 1 - Process: Compression
MB/s, More Is Better
epyczen3
SE +/- 0.33, N = 3
211
50
100
150
200
250
lzbench 1.8
Test: Libdeflate 1 - Process: Decompression
MB/s, More Is Better
epyczen3
SE +/- 0.58, N = 3
1071
200
400
600
800
1000
Timed MrBayes Analysis 3.2.7
Primate Phylogeny Analysis
Seconds, Fewer Is Better
epyczen3
SE +/- 0.74, N = 3
801.54
200
400
600
800
1000


BLAKE2 20170307
Cycles Per Byte, Fewer Is Better
epyczen3
SE +/- 0.01, N = 3
4.90
1.1025
2.205
3.3075
4.41
5.5125
Go Benchmarks
Test: http
Nanoseconds/Operation, Fewer Is Better
epyczen3
SE +/- 29.77, N = 3
9824
2K
4K
6K
8K
10K
Go Benchmarks
Test: json
Nanoseconds/Operation, Fewer Is Better
epyczen3
E +/- 375581.59, N = 12
2257142
500K
1000K
1500K
2000K
2500K
Go Benchmarks
Test: build
Nanoseconds/Operation, Fewer Is Better
epyczen3
-/- 250043557.58, N = 3
28716806200
6000M
12000M
18000M
24000M
30000M
Go Benchmarks
Test: garbage
Nanoseconds/Operation, Fewer Is Better
epyczen3
SE +/- 10990.73, N = 3
822717
200K
400K
600K
800K
1000K
Java SciMark 2.0
Computational Test: Composite
Mflops, More Is Better
epyczen3
SE +/- 5.11, N = 4
2515.62
500
1000
1500
2000
2500


Java SciMark 2.0
Computational Test: Monte Carlo
Mflops, More Is Better
epyczen3
SE +/- 2.44, N = 4
1292.61
300
600
900
1200
1500
Java SciMark 2.0
Computational Test: Fast Fourier Transform
Mflops, More Is Better
epyczen3
SE +/- 6.12, N = 4
1839.37
400
800
1200
1600
2000
Java SciMark 2.0
Computational Test: Sparse Matrix Multiply
Mflops, More Is Better
epyczen3
SE +/- 1.86, N = 4
2245.11
500
1000
1500
2000
2500
Java SciMark 2.0
Computational Test: Dense LU Matrix Factorization
Mflops, More Is Better
epyczen3
SE +/- 23.92, N = 4
5639.27
1200
2400
3600
4800
6000
Java SciMark 2.0
Computational Test: Jacobi Successive Over-Relaxation
Mflops, More Is Better
epyczen3
SE +/- 3.07, N = 4
1561.73
300
600
900
1200
1500
DaCapo Benchmark 9.12-MR1
Java Test: H2
msec, Fewer Is Better
epyczen3
SE +/- 39.66, N = 20
4233
900
1800
2700
3600
4500



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