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Intel Core i7 3960X Linux, Intel Sandy Bridge vs. AMD Bulldozer, Intel Core i5 2500K

First tests of the Intel Core i7 3960X Sandy Bridge Extreme Edition processor under Linux. Using an Ubuntu 12.04 LTS 64-bit snapshot with the Linux 3.2 kernel. More tests are on the way on Phoronix.com by Michael Larabel. Thanks to Intel Corp for sending out the Core i7 3960X, the Intel X79 motherboard, and the Intel water cooling kit for Sandy-E.

Intel Sandy Bridge vs. AMD Bulldozer: Intel Core i5 2500K Sandy Bridge, Intel Core i5 2400S Sandy Bridge, AMD FX-8150 Bulldozer benchmarking under Linux with an early Ubuntu 12.04 LTS Precise Pangolin 64-bit snapshot on the Linux 3.2 kernel. Testing by Michael Larabel of Phoronix.com.

Intel Core i5 2500K: Intel Core i5 2500K benchmarking under Linux with an early Ubuntu 12.04 LTS Precise Pangolin 64-bit snapshot on the Linux 3.2 kernel. Testing by Michael Larabel of Phoronix.com.

Automated Executive Summary

Core i5 2500K had the most wins, coming in first place for 51% of the tests.

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

C-Ray (Total Time) at 4.701x
Himeno Benchmark (Poisson Pressure Solver) at 3.778x
Smallpt (Global Illumination Renderer; 100 Samples) at 3.582x
Timed Linux Kernel Compilation (Time To Compile) at 2.282x

x264 (H.264 Video Encoding) at 1.76x
7-Zip Compression (Compress Speed Test) at 1.749x
GraphicsMagick (Operation: Sharpen) at 1.711x
NAS Parallel Benchmarks (Test / Class: IS.C) at 1.702x
TSCP (AI Chess Performance) at 1.69x
GraphicsMagick (Operation: Local Adaptive Thresholding) at 1.659x.

Test Systems:

Core i5 2500K

Intel Core i5 2500K: Core i5 2500K

Processor: Intel Core i5-2500K @ 3.30GHz (4 Cores), Motherboard: ASRock Z68 Pro3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: AMD Radeon HD 6900 2048MB (800/1250MHz), Audio: Realtek ALC892, Monitor: DELL P2210H, Network: Realtek RTL8111/8168B

OS: Ubuntu 12.04, Kernel: 3.2.0-3-generic (x86_64), Desktop: Unity 4.24.0, Display Server: X Server 1.10.4, Display Driver: fglrx 8.91.4 Catalyst 11.11, OpenGL: 4.1.11251, Compiler: GCC 4.6, File-System: ext4, Screen Resolution: 1920x1080

System Notes: Compiz was running on this system.

Core i5 2400S

Intel Core i5 2500K: Core i5 2400S

Processor: Intel Core i5-2400S @ 2.50GHz (4 Cores), Motherboard: ASRock Z68 Pro3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: AMD Radeon HD 6900 2048MB (800/1250MHz), Audio: Realtek ALC892, Monitor: DELL P2210H, Network: Realtek RTL8111/8168B

OS: Ubuntu 12.04, Kernel: 3.2.0-3-generic (x86_64), Desktop: Unity 4.24.0, Display Server: X Server 1.10.4, Display Driver: fglrx 8.91.4 Catalyst 11.11, OpenGL: 4.1.11251, Compiler: GCC 4.6, File-System: ext4, Screen Resolution: 1920x1080

System Notes: Compiz was running on this system.

FX-8150

Processor: AMD FX-8150 Eight-Core @ 3.61GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: ATI RD890, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: AMD Radeon HD 6900 2048MB (800/1250MHz), Audio: Realtek ALC889, Monitor: DELL P2210H, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 12.04, Kernel: 3.2.0-3-generic (x86_64), Desktop: Unity 4.24.0, Display Server: X Server 1.10.4, Display Driver: fglrx 8.91.4 Catalyst 11.11, OpenGL: 4.1.11251, Compiler: GCC 4.6, File-System: ext4, Screen Resolution: 1920x1080

System Notes: Compiz was running on this system.

Intel Core i7 3960X

Processor: Intel Core i7-3960X @ 3.30GHz (12 Cores), Motherboard: Intel DX79SI, Chipset: Intel Sandy DMI2, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: AMD Radeon HD 6900 2048MB (800/1250MHz), Audio: Realtek ALC892, Monitor: DELL P2210H, Network: Intel 82579LM Gigabit Connection

OS: Ubuntu 12.04, Kernel: 3.2.0-3-generic (x86_64), Desktop: Unity 4.24.0, Display Server: X Server 1.10.4, Display Driver: fglrx 8.91.4 Catalyst 11.11, OpenGL: 4.1.11251, Compiler: GCC 4.6, File-System: ext4, Screen Resolution: 1920x1080

System Notes: Compiz was running on this system.

AMD Phenom II X4 955 @ 3.60GHz

Processor: AMD Phenom II X4 955 @ 3.60GHz (4 Cores), Motherboard: Gigabyte GA-880GM-UD2H, Chipset: AMD RS780 + SB700/SB800, Memory: 6144MB, Disk: 500GB Seagate ST3500320AS, Graphics: AMD Radeon HD 4250, Audio: Realtek ALC892, Monitor: SyncMaster, Network: Realtek RTL8111/8168B

OS: Fedora 14, Kernel: 2.6.35.14-103.fc14.i686.PAE (i686), Desktop: KDE 4.6.5, Display Server: X Server 1.9.5, Display Driver: radeon 6.13.99, OpenGL: 2.1 Mesa 7.9, Compiler: GCC 4.6.0, File-System: ext2/ext3, Screen Resolution: 1280x1024

System Notes: Firefox was running on this system. AMD CnQ was enabled.

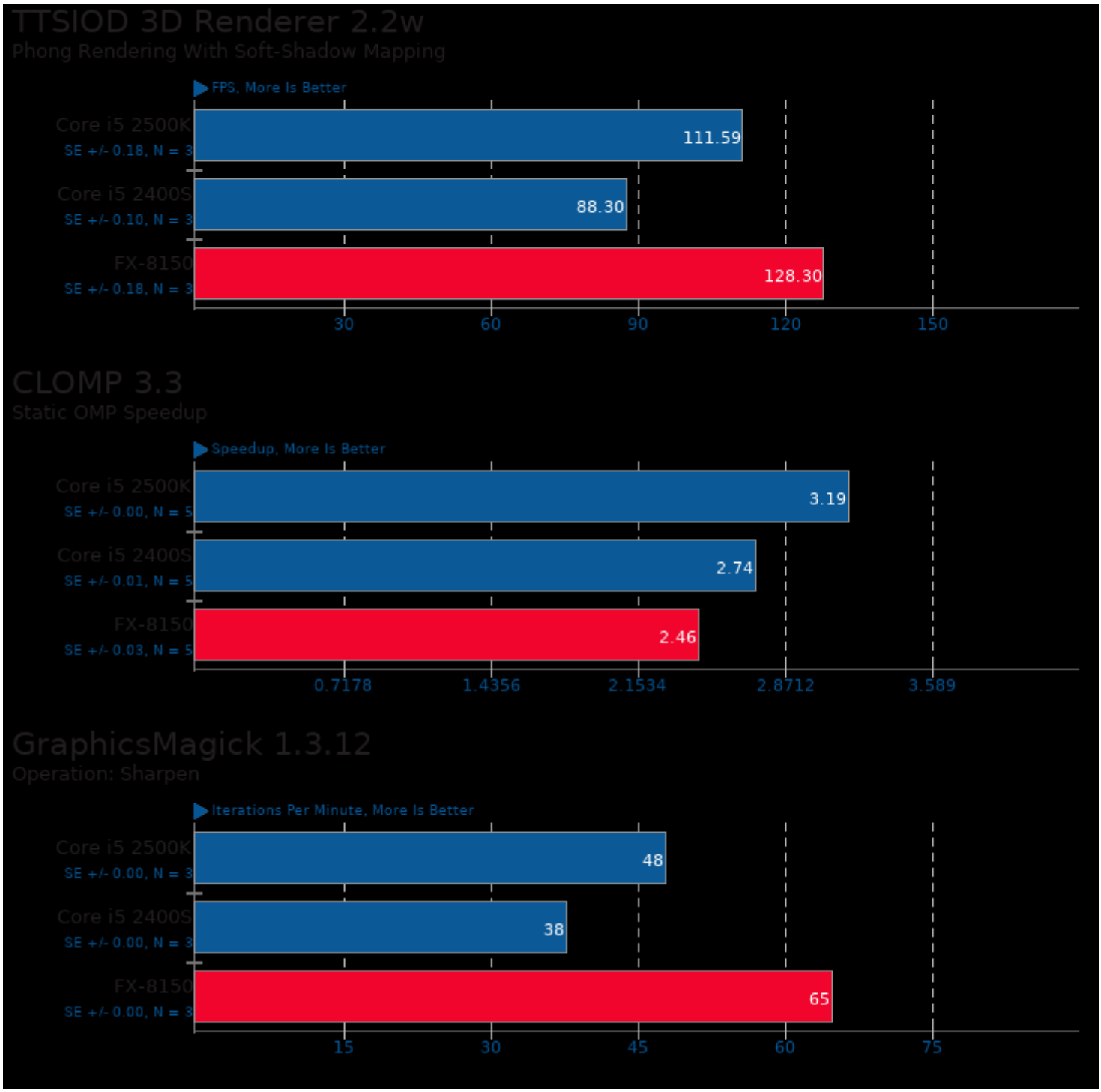
	Core i5 2500K	Intel Core i5 2500K: Core i5 2500K	Core i5 2400S	Intel Core i5 2500K: Core i5 2400S	FX-8150	Intel Core i7 3960X	AMD Phenom II X4 955 @ 3.60GHz
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	111.59		**88.30**		**128.30**		
Normalized	86.98%		68.82%		100%		
Standard Deviation	0.3%		0.2%		0.2%		
CLOMP - Static OMP Speedup (Speedup)	**3.19**		2.74		**2.46**		
Normalized	100%		85.89%		77.12%		
Standard Deviation	0.3%		0.4%		2.7%		
GraphicsMagick - Sharpen (Iterations/min)	48		**38**		**65**		
Normalized	73.85%		58.46%		100%		
Standard Deviation	0%		0%		0%		
GraphicsMagick - Resizing (Iterations/min)	128		**107**		**133**		
Normalized	96.24%		80.45%		100%		
Standard Deviation	0%		0%		0%		

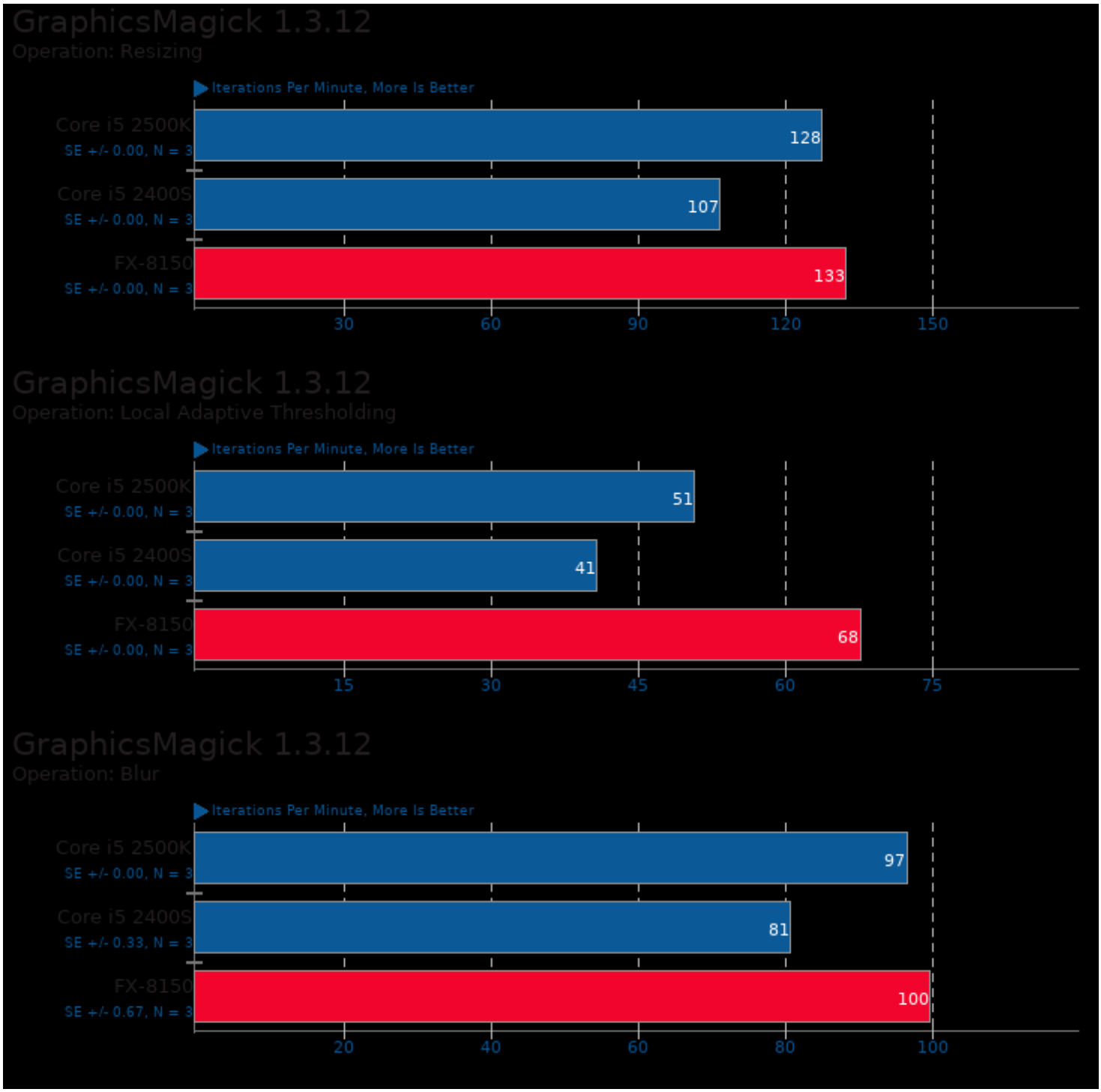
GraphicsMagick - L.A.T (Iterations/min)	51	41	68
Normalized	75%	60.29%	100%
Standard Deviation	0%	0%	0%
GraphicsMagick - Blur (Iterations/min)	97	81	100
Normalized	97%	81%	100%
Standard Deviation	0%	0.7%	1.2%
GraphicsMagick - HWB Color Space	165	142	165
Normalized	100%	86.06%	100%
Standard Deviation	0%	0%	0%
NAS Parallel Benchmarks - UA.A (Mop/s)	36.98	31.33	40.14
Normalized	92.13%	78.05%	100%
Standard Deviation	0.3%	0.2%	0.3%
NAS Parallel Benchmarks - SP.A (Mop/s)	6180	5436	5379
Normalized	100%	87.95%	87.04%
Standard Deviation	0.3%	0.3%	1.1%
NAS Parallel Benchmarks - MG.B (Mop/s)	6319	5796	4369
Normalized	100%	91.72%	69.15%
Standard Deviation	0.1%	0.3%	0.1%
NAS Parallel Benchmarks - LU.A (Mop/s)	10228	8174	11631
Normalized	87.94%	70.28%	100%
Standard Deviation	0.5%	0.3%	0.2%
NAS Parallel Benchmarks - IS.C (Mop/s)	182.66	163.66	107.33
Normalized	100%	89.6%	58.76%
Standard Deviation	0.1%	0.1%	0.1%
NAS Parallel Benchmarks - FT.B (Mop/s)	6014	4819	6410
Normalized	93.82%	75.18%	100%
Standard Deviation	0.1%	0.1%	0.4%
NAS Parallel Benchmarks - EP.B (Mop/s)	133.90	102.44	163.08
Normalized	82.11%	62.82%	100%
Standard Deviation	0%	0%	1.9%
NAS Parallel Benchmarks - CG.B (Mop/s)	2787	2430	2495
Normalized	100%	87.21%	89.55%
Standard Deviation	0.3%	0.1%	0.1%
NAS Parallel Benchmarks - BT.A (Mop/s)	11947	9567	11152
Normalized	100%	80.08%	93.35%
Standard Deviation	0%	0%	0.7%
Minion - Solitaire (sec)	111.31	124.86	160.48
Normalized	100%	89.15%	69.36%
Standard Deviation	0.4%	0.7%	1.1%
Minion - Quasigroup (sec)	157.50	178.03	198.52
Normalized	100%	88.47%	79.34%

Standard Deviation	0.3%	1.2%	1%
Minion - Graceful (sec)	70.09	78.21	86.34
Normalized	100%	89.62%	81.18%
Standard Deviation	0.2%	0%	0.3%
Minion - Bibd (sec)	121.11	135.79	167.25
Normalized	100%	89.19%	72.41%
Standard Deviation	0.5%	0.4%	0.7%
Timed HMMer Search - P.D.S (sec)	14.56	18.74	13.52
Normalized	92.86%	72.15%	100%
Standard Deviation	0.5%	0.2%	3.6%
Timed MAFFT Alignment - M.S.A (sec)	19.59	21.90	26.07
Normalized	100%	89.45%	75.14%
Standard Deviation	0.1%	0.1%	0.1%
Himeno Benchmark - P.P.S (MFLOPS)	1414	1255	374.17
Normalized	100%	88.76%	26.47%
Standard Deviation	1.4%	1.9%	0.4%
John The Ripper - Blowfish (Real C/S)	916	817	1002
Normalized	91.42%	81.54%	100%
Standard Deviation	0.1%	0.1%	0%
John The Ripper - MD5 (Real C/S)	14389	12815	15381
Normalized	93.55%	83.32%	100%
Standard Deviation	0.1%	0%	0.2%
John The Ripper - Traditional DES (Real C/S)	5060667	4513333	4298667
Normalized	100%	89.18%	84.94%
Standard Deviation	0.2%	0.2%	0.3%
OpenSSL - R.4.b.P (Signs/sec)	86.88	77.65	68.50
Normalized	100%	89.38%	78.84%
Standard Deviation	0.6%	0.7%	0.9%
LAME MP3 Encoding - WAV To MP3 (sec)	14.27	16.01	19.56
Normalized	100%	89.13%	72.96%
Standard Deviation	0.1%	0.2%	0.2%
FLAC Audio Encoding - WAV To FLAC (sec)	6.19	6.94	7.85
Normalized	100%	89.19%	78.85%
Standard Deviation	0.2%	0.1%	0.2%
FFmpeg - AVI To NTSC VCD (sec)	16.00	16.32	9.98
Normalized	62.38%	61.15%	100%
Standard Deviation	2.2%	2%	1%
x264 - H.2.V.E (FPS)	96.53	77.13	135.76
Normalized	71.1%	56.81%	100%
Standard Deviation	0.8%	1%	0.4%
VP8 libvpx Encoding - vpxenc (FPS)	27.86	21.98	20.54
Normalized	100%	78.89%	73.73%
Standard Deviation	1.3%	1.6%	0.6%

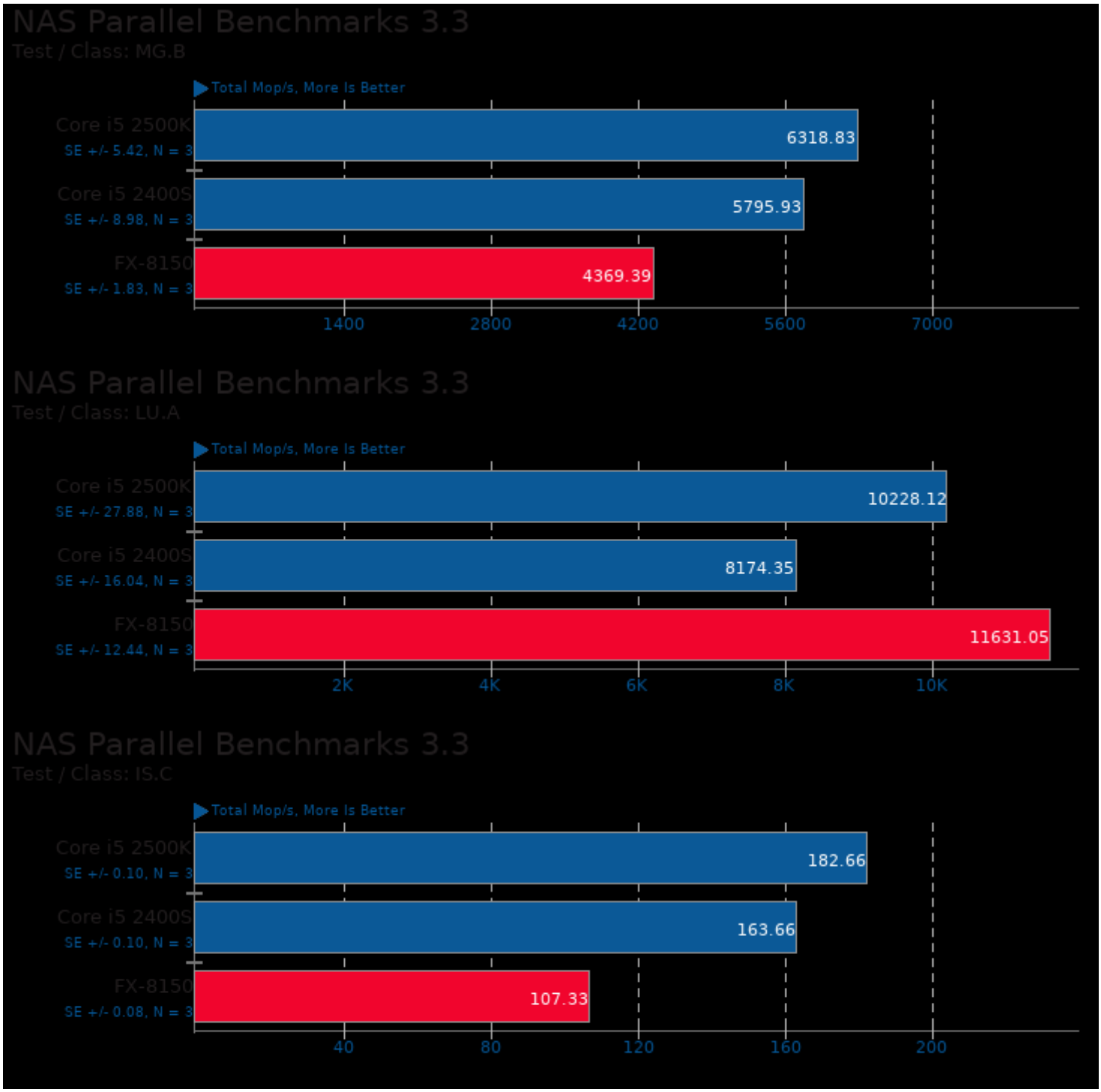
Intel Core i7 3960X Linux, Intel Sandy Bridge vs. AMD Bulldozer, Intel Core i5 2500K

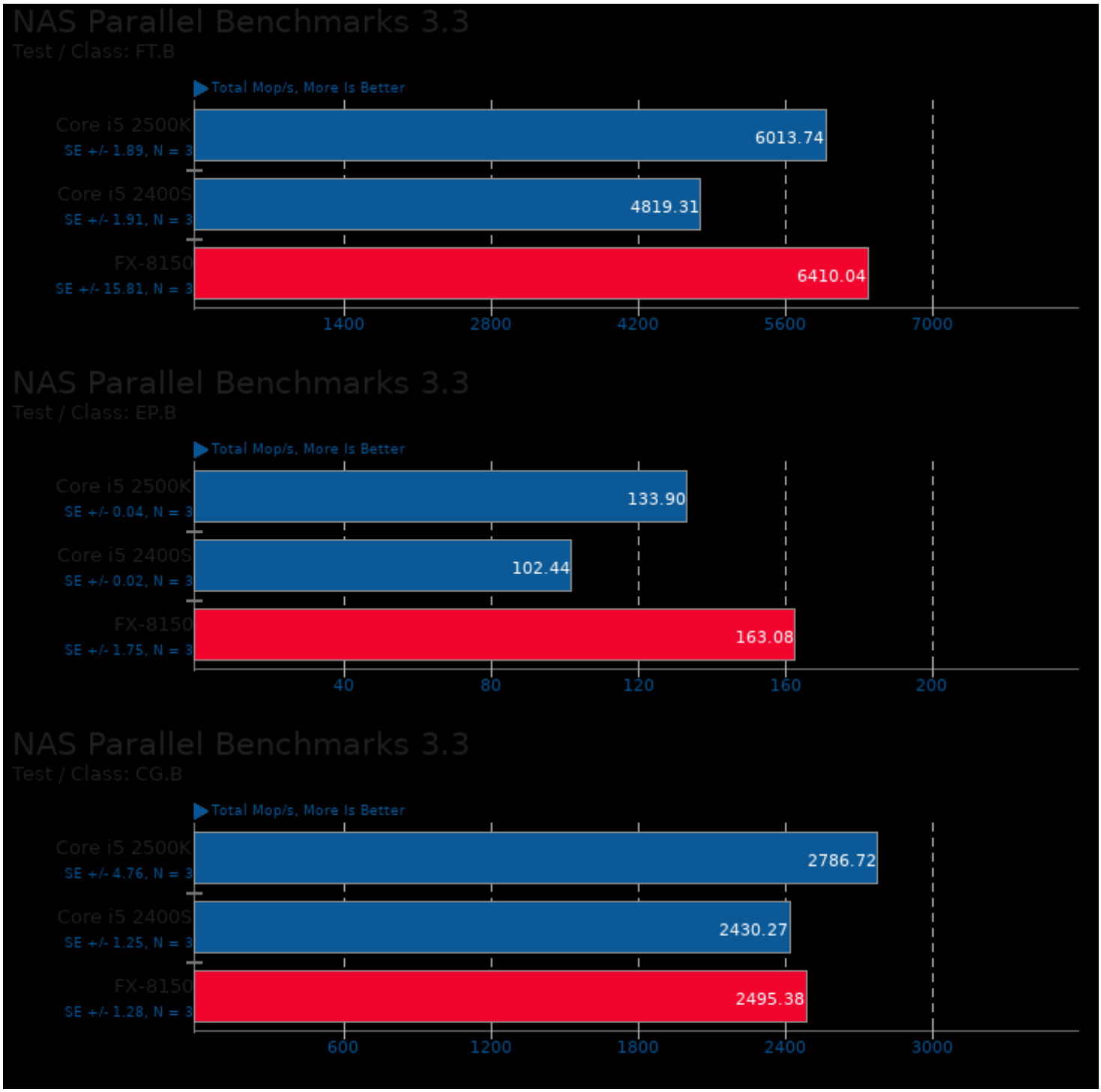
TSCP - A.C.P (Nodes/s)	**531438**	472953	**314371**		
Normalized	100%	88.99%	59.15%		
Standard Deviation	0.3%	0.7%	0.1%		
7-Zip Compression - C.S.T (MIPS)	12802	**10244**	**17915**		
Normalized	71.46%	57.18%	100%		
Standard Deviation	0.2%	0.1%	2.4%		
Timed PHP Compilation - Time To Compile (sec)	32.65	**39.71**	**30.39**		
Normalized	93.08%	76.53%	100%		
Standard Deviation	0.1%	0.1%	0.2%		
Warsow - 1920 x 1080 (FPS)	**355.73**	**323.97**	353.92		
Normalized	100%	91.07%	99.49%		
Standard Deviation	0.4%	0.3%	3.4%		
Xonotic - 1920 x 1080 (FPS)	218.17	**212.43**	**232.40**		
Normalized	93.88%	91.41%	100%		
Standard Deviation	0.3%	0.2%	0.7%		
Nexuiz - 1920 x 1080 - Yes - On (FPS)	**135.89**	123.11	**116.74**		
Normalized	100%	90.6%	85.91%		
Standard Deviation	0.7%	0.2%	0.3%		
Smallpt - G.I.R.1.S (sec)	150	199	104	**67**	**240**
Normalized	44.67%	33.67%	64.42%	100%	27.92%
Standard Deviation	0.4%	2%	0.6%	0%	0%
C-Ray - Total Time (sec)	53.28	69.35	51.05	**36.23**	**170.32**
Normalized	68%	52.24%	70.97%	100%	21.27%
Standard Deviation	0.3%	0.4%	0%	3.3%	0.3%
Timed Linux Kernel Compilation - Time To Compile (sec)	105.01	**134.10**	89.17	**58.76**	118.48
Normalized	55.96%	43.82%	65.9%	100%	49.59%
Standard Deviation	1%	0.8%	1.2%	2.1%	1.4%

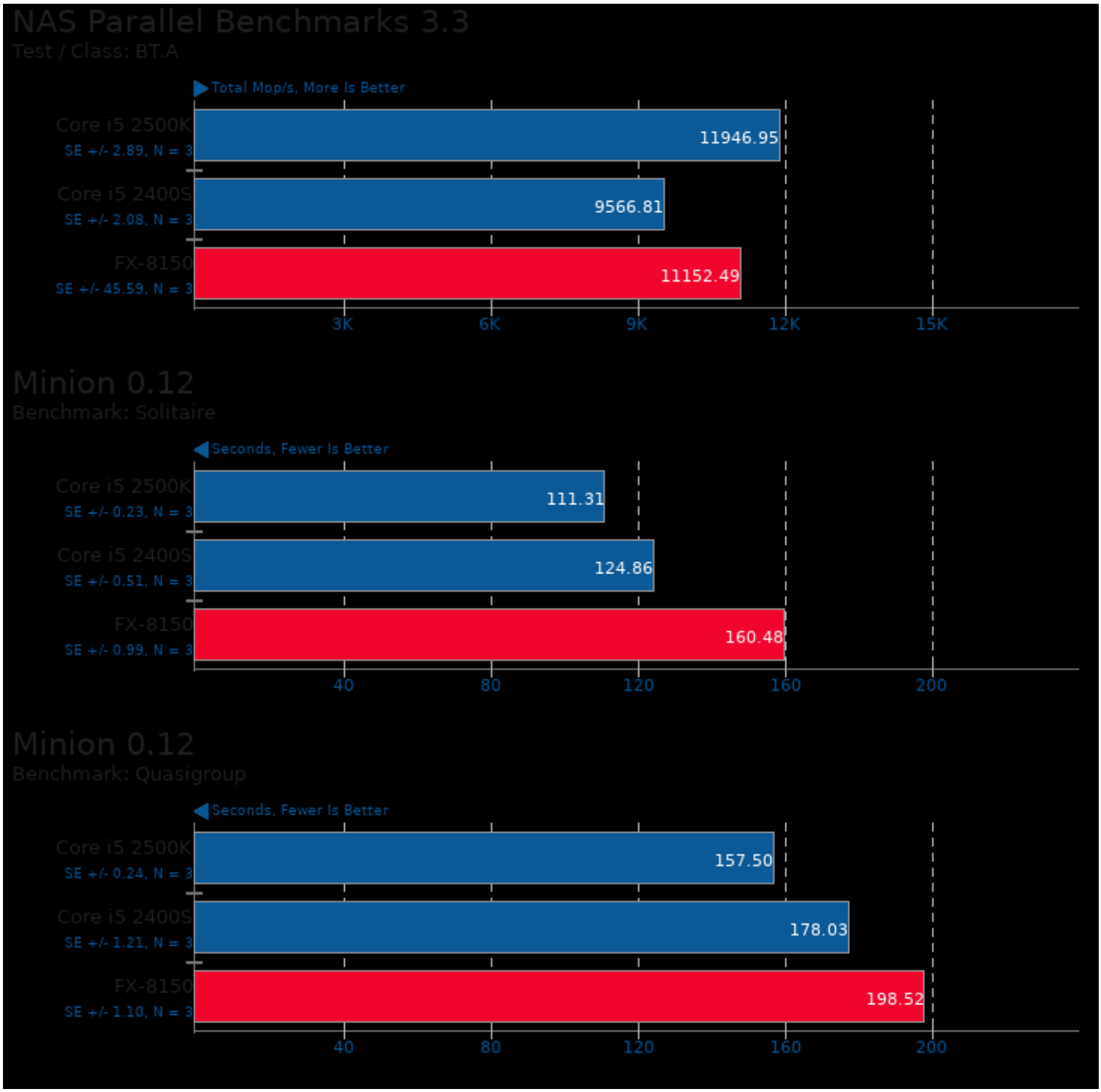

TTSIOD 3D Renderer 2.2w
Phong Rendering With Soft-Shadow Mapping
FPS, More Is Better
Core i5 2500K
SE +/- 0.18, N = 3
111.59
Core i5 2400S
SE +/- 0.10, N = 3
88.30
FX-8150
SE +/- 0.18, N = 3
128.30
30
60
90
120
150
CLOMP 3.3
Static OMP Speedup
Speedup, More Is Better
Core i5 2500K
SE +/- 0.00, N = 5
3.19
Core i5 2400S
SE +/- 0.01, N = 5
2.74
FX-8150
SE +/- 0.03, N = 5
2.46
0.7178
1.4356
2.1534
2.8712
3.589
GraphicsMagick 1.3.12
Operation: Sharpen
Iterations Per Minute, More Is Better
Core i5 2500K
SE +/- 0.00, N = 3
48
Core i5 2400S
SE +/- 0.00, N = 3
38
FX-8150
SE +/- 0.00, N = 3
65
15
30
45
60
75

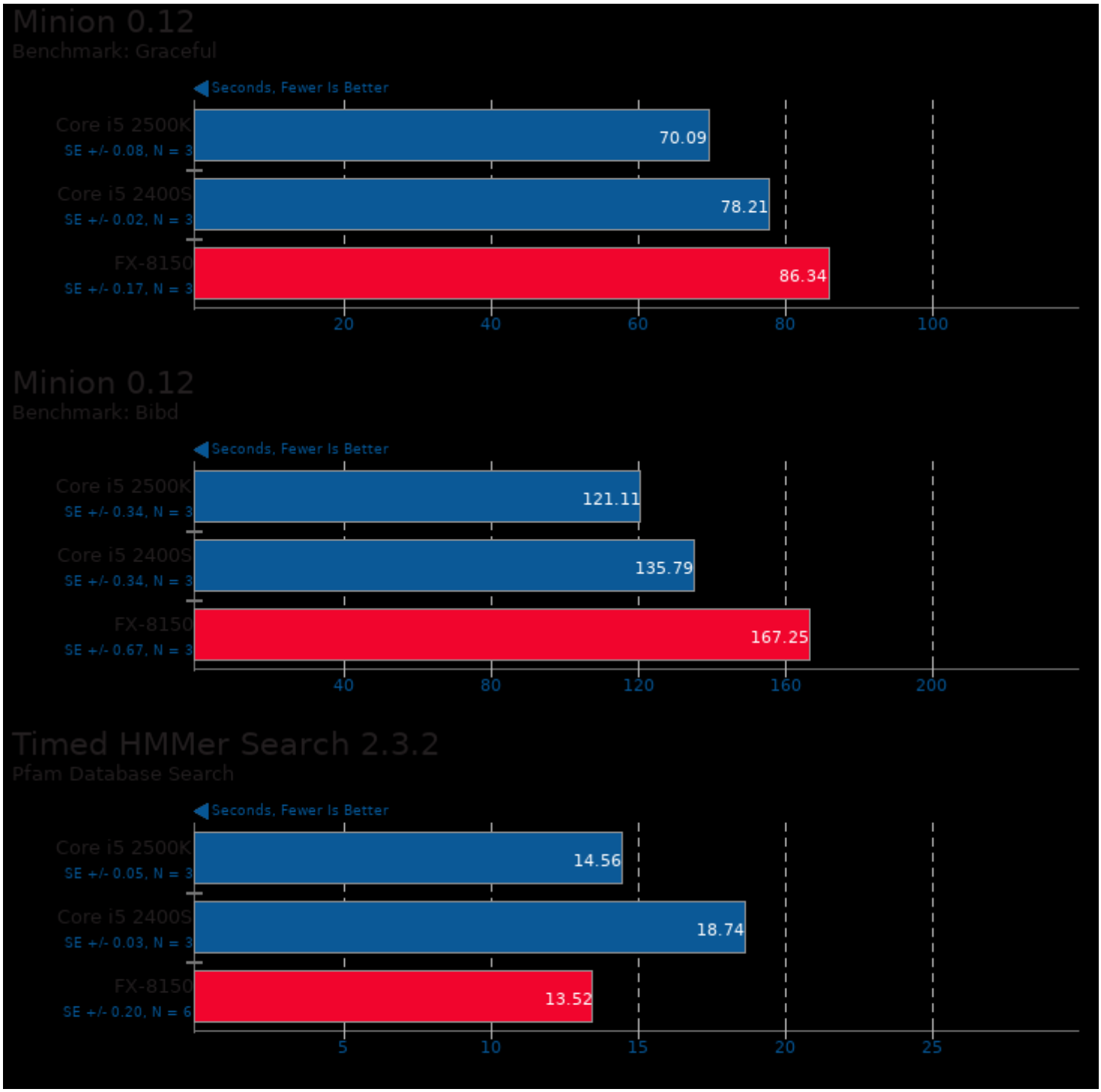

GraphicsMagick 1.3.12
Operation: Resizing
Iterations Per Minute, More Is Better
Core i5 2500K
SE +/- 0.00, N = 3
128
Core i5 2400S
SE +/- 0.00, N = 3
107
FX-8150
SE +/- 0.00, N = 3
133
30
60
90
120
150
GraphicsMagick 1.3.12
Operation: Local Adaptive Thresholding
Iterations Per Minute, More Is Better
Core i5 2500K
SE +/- 0.00, N = 3
51
Core i5 2400S
SE +/- 0.00, N = 3
41
FX-8150
SE +/- 0.00, N = 3
68
15
30
45
60
75
GraphicsMagick 1.3.12
Operation: Blur
Iterations Per Minute, More Is Better
Core i5 2500K
SE +/- 0.00, N = 3
97
Core i5 2400S
SE +/- 0.33, N = 3
81
FX-8150
SE +/- 0.67, N = 3
100
20
40
60
80
100

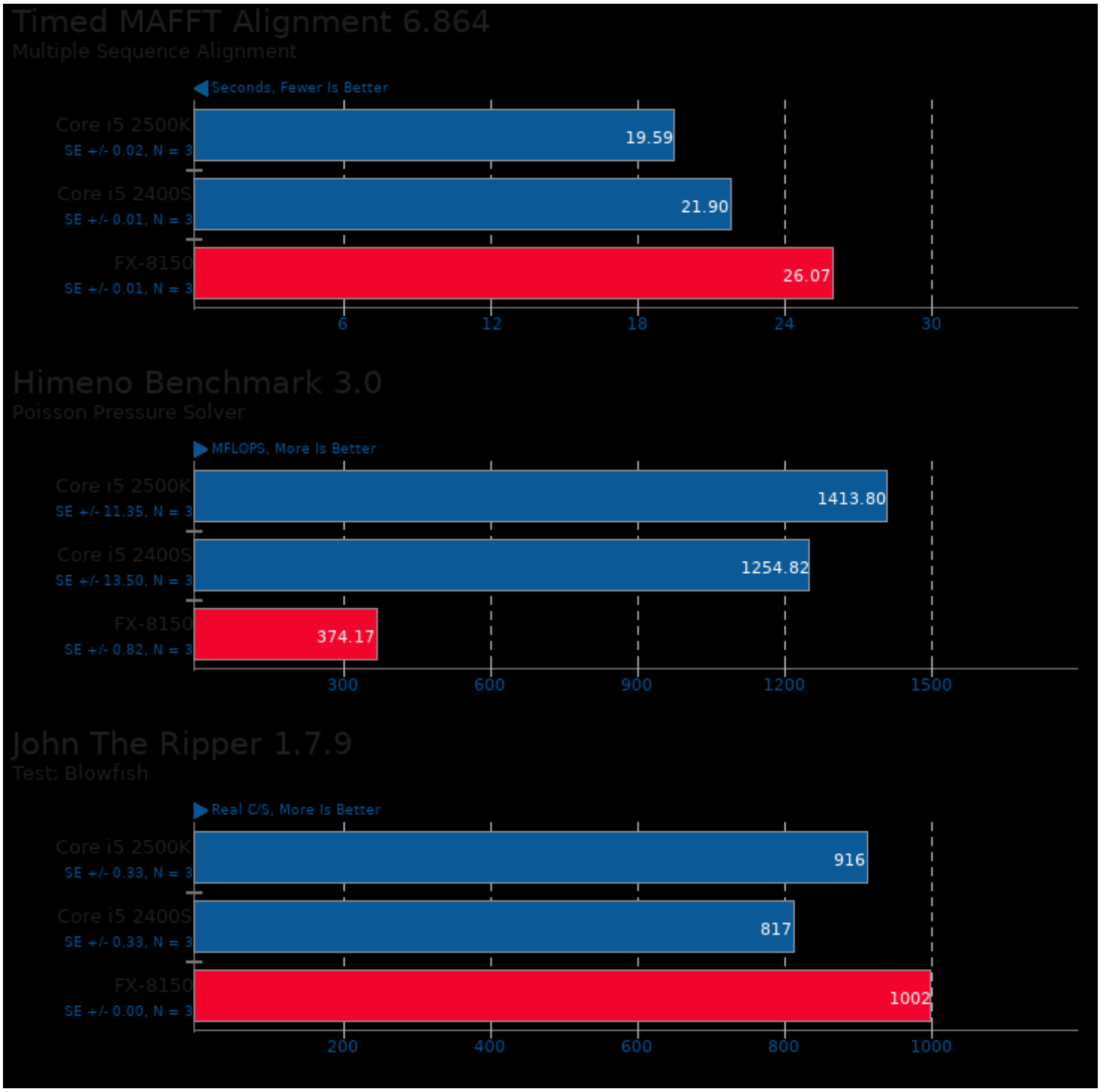

GraphicsMagick 1.3.12
Operation: HWB Color Space
Iterations Per Minute, More Is Better
Core i5 2500K
SE +/- 0.00, N = 3
165
Core i5 2400S
SE +/- 0.00, N = 3
142
FX-8150
SE +/- 0.00, N = 3
165
40
80
120
160
200
NAS Parallel Benchmarks 3.3
Test / Class: UA.A
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 0.06, N = 3
36.98
Core i5 2400S
SE +/- 0.04, N = 3
31.33
FX-8150
SE +/- 0.08, N = 3
40.14
9
18
27
36
45
NAS Parallel Benchmarks 3.3
Test / Class: SP.A
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 10.88, N = 3
6179.97
Core i5 2400S
SE +/- 8.18, N = 3
5435.51
FX-8150
SE +/- 35.06, N = 3
5378.85
1300
2600
3900
5200
6500

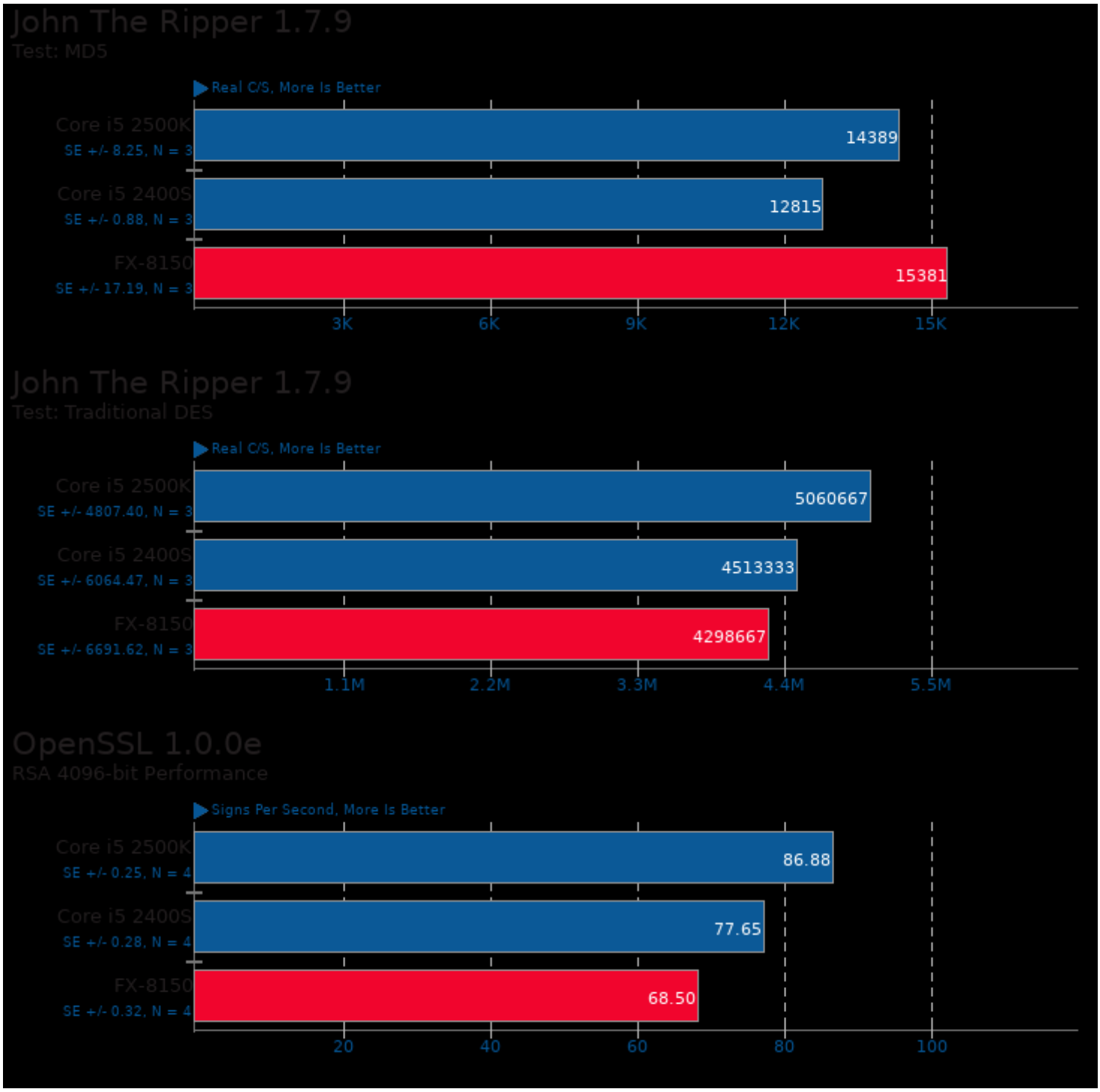

NAS Parallel Benchmarks 3.3
Test / Class: MG.B
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 5.42, N = 3
6318.83
Core i5 2400S
SE +/- 8.98, N = 3
5795.93
FX-8150
SE +/- 1.83, N = 3
4369.39
1400
2800
4200
5600
7000
NAS Parallel Benchmarks 3.3
Test / Class: LU.A
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 27.88, N = 3
10228.12
Core i5 2400S
SE +/- 16.04, N = 3
8174.35
FX-8150
SE +/- 12.44, N = 3
11631.05
2K
4K
6K
8K
10K
NAS Parallel Benchmarks 3.3
Test / Class: IS.C
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 0.10, N = 3
182.66
Core i5 2400S
SE +/- 0.10, N = 3
163.66
FX-8150
SE +/- 0.08, N = 3
107.33
40
80
120
160
200

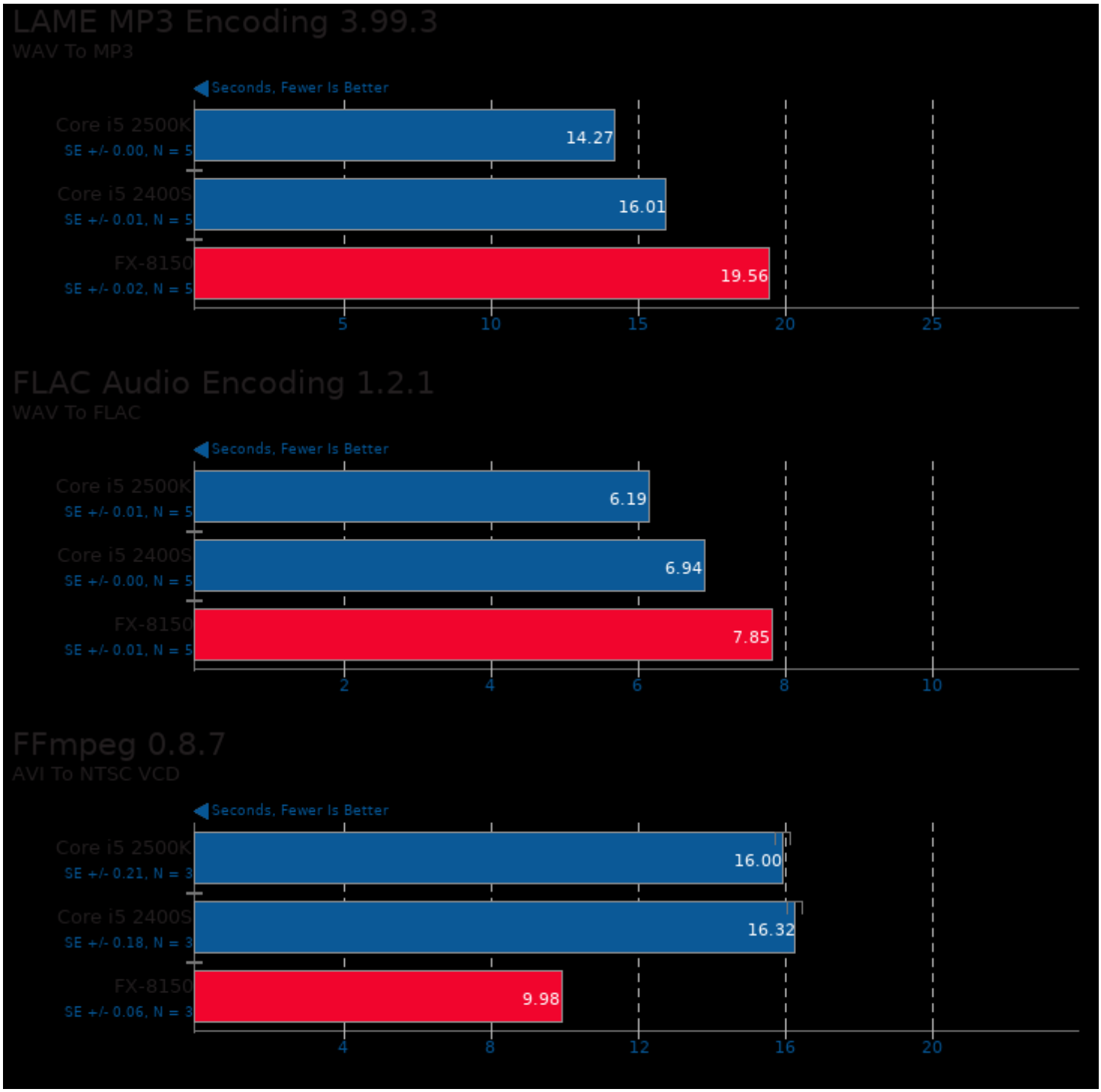

NAS Parallel Benchmarks 3.3
Test / Class: FT.B
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 1.89, N = 3
6013.74
Core i5 2400S
SE +/- 1.91, N = 3
4819.31
FX-8150
SE +/- 15.81, N = 3
6410.04
1400
2800
4200
5600
7000
NAS Parallel Benchmarks 3.3
Test / Class: EP.B
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 0.04, N = 3
133.90
Core i5 2400S
SE +/- 0.02, N = 3
102.44
FX-8150
SE +/- 1.75, N = 3
163.08
40
80
120
160
200
NAS Parallel Benchmarks 3.3
Test / Class: CG.B
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 4.76, N = 3
2786.72
Core i5 2400S
SE +/- 1.25, N = 3
2430.27
FX-8150
SE +/- 1.28, N = 3
2495.38
600
1200
1800
2400
3000

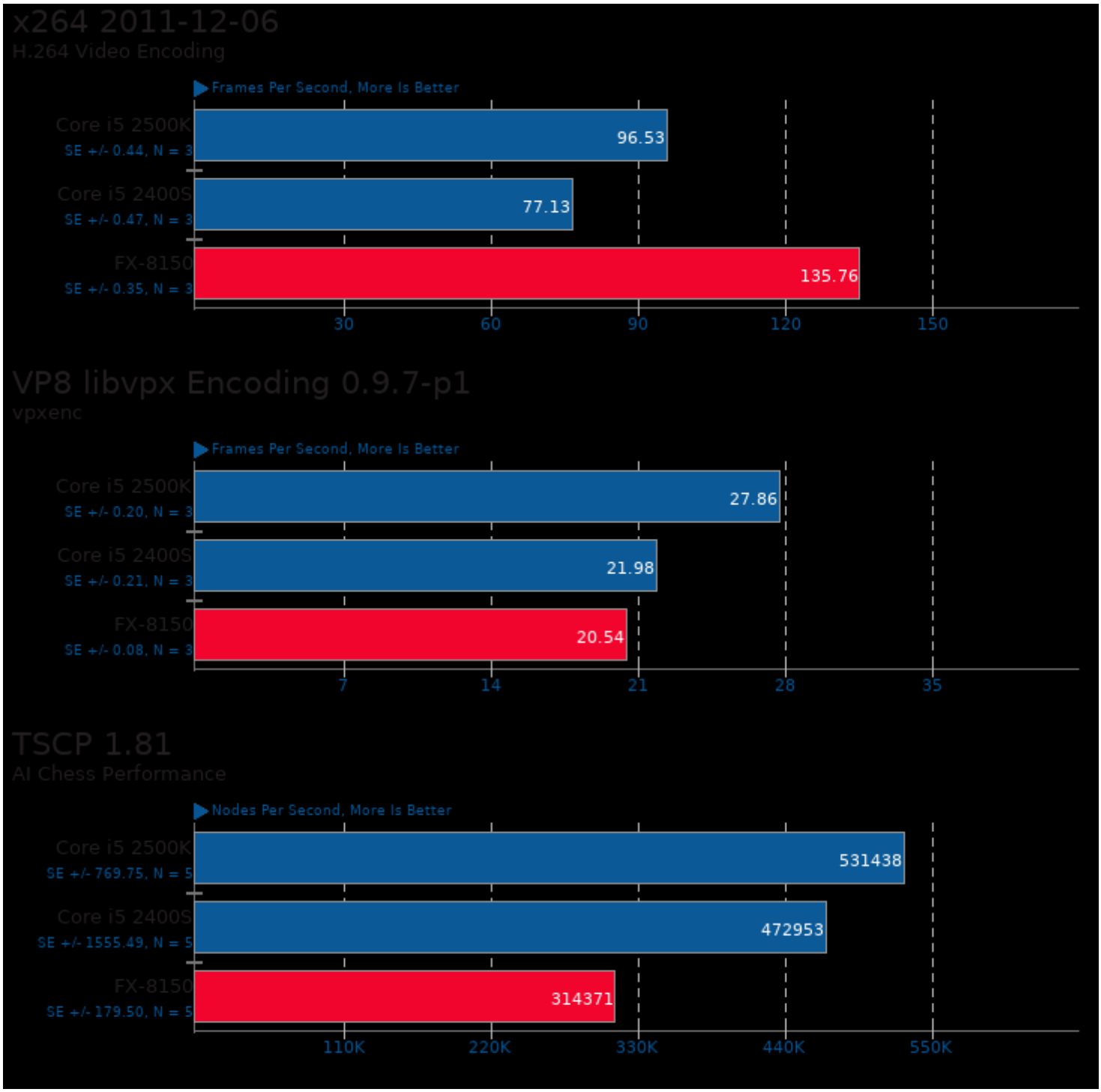

NAS Parallel Benchmarks 3.3
Test / Class: BT.A
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 2.89, N = 3
11946.95
Core i5 2400S
SE +/- 2.08, N = 3
9566.81
FX-8150
SE +/- 45.59, N = 3
11152.49
3K
6K
9K
12K
15K
Minion 0.12
Benchmark: Solitaire
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.23, N = 3
111.31
Core i5 2400S
SE +/- 0.51, N = 3
124.86
FX-8150
SE +/- 0.99, N = 3
160.48
40
80
120
160
200
Minion 0.12
Benchmark: Quasigroup
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.24, N = 3
157.50
Core i5 2400S
SE +/- 1.21, N = 3
178.03
FX-8150
SE +/- 1.10, N = 3
198.52
40
80
120
160
200

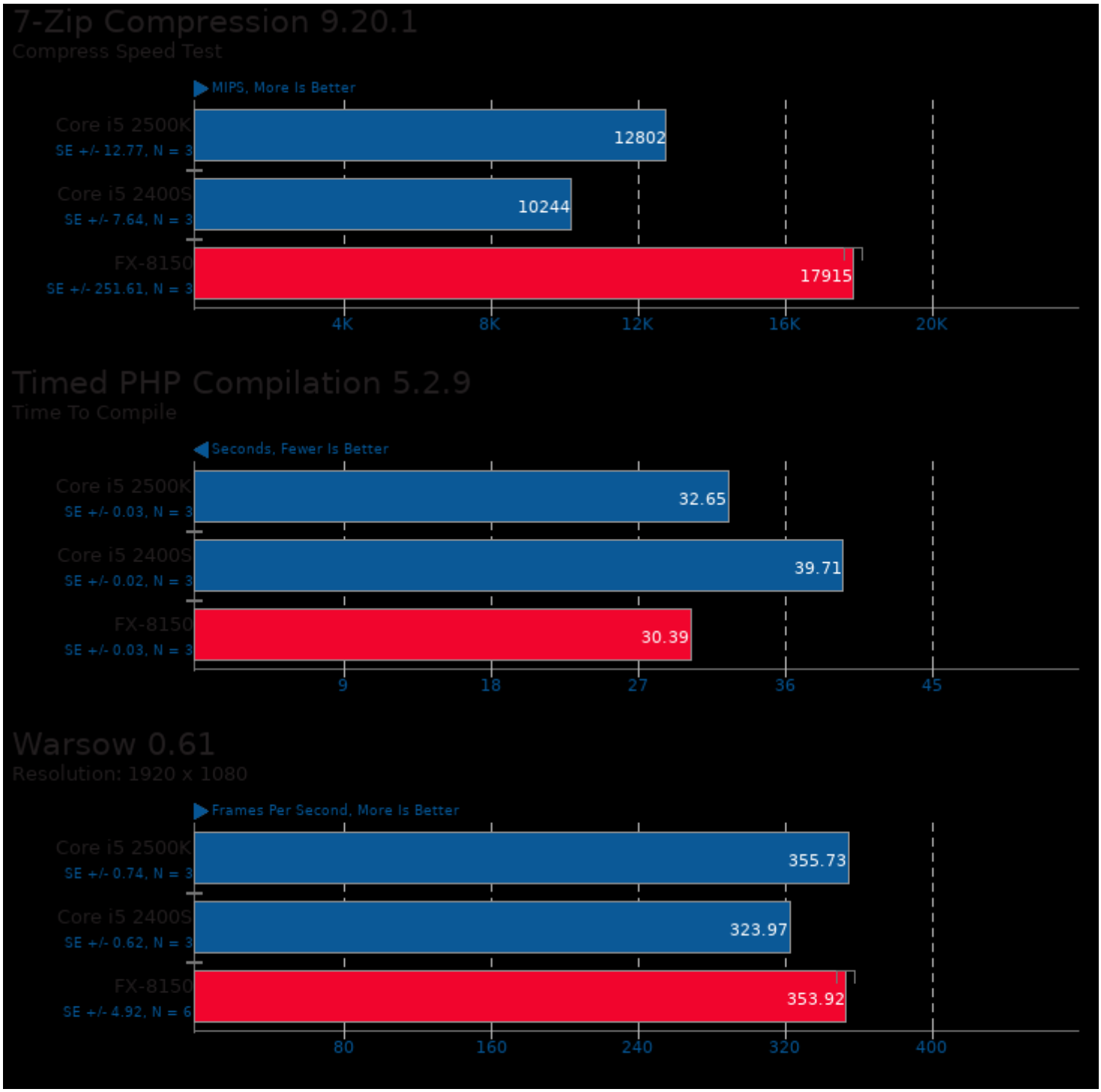

Minion 0.12
Benchmark: Graceful
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.08, N = 3
70.09
Core i5 2400S
SE +/- 0.02, N = 3
78.21
FX-8150
SE +/- 0.17, N = 3
86.34
20
40
60
80
100
Minion 0.12
Benchmark: Bibd
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.34, N = 3
121.11
Core i5 2400S
SE +/- 0.34, N = 3
135.79
FX-8150
SE +/- 0.67, N = 3
167.25
40
80
120
160
200
Timed HMMer Search 2.3.2
Pfam Database Search
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.05, N = 3
14.56
Core i5 2400S
SE +/- 0.03, N = 3
18.74
FX-8150
SE +/- 0.20, N = 6
13.52
5
10
15
20
25

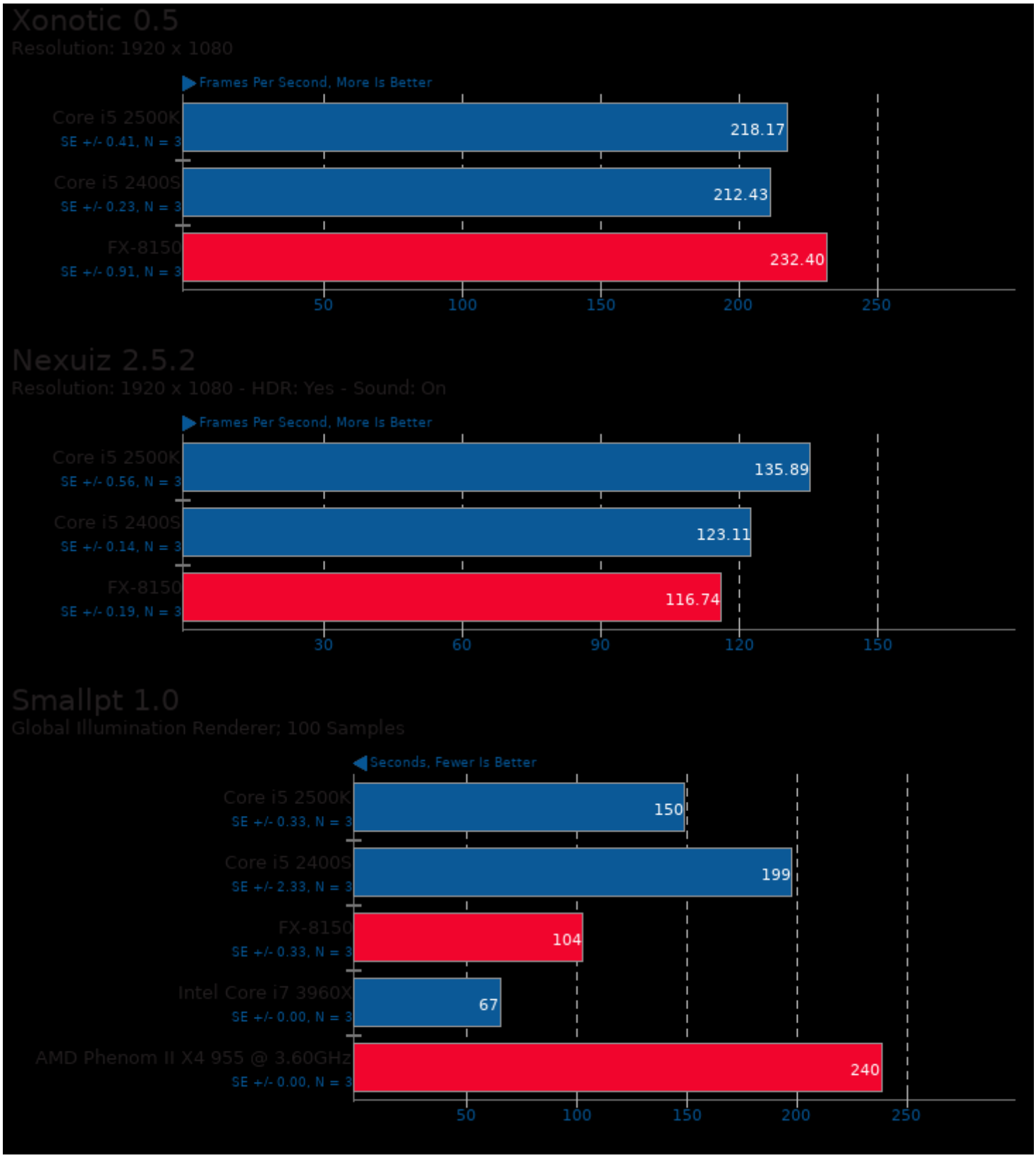

Timed MAFFT Alignment 6.864
Multiple Sequence Alignment
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.02, N = 3
19.59
Core i5 2400S
SE +/- 0.01, N = 3
21.90
FX-8150
SE +/- 0.01, N = 3
26.07
6
12
18
24
30
Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
Core i5 2500K
SE +/- 11.35, N = 3
1413.80
Core i5 2400S
SE +/- 13.50, N = 3
1254.82
FX-8150
SE +/- 0.82, N = 3
374.17
300
600
900
1200
1500
John The Ripper 1.7.9
Test: Blowfish
Real C/S, More Is Better
Core i5 2500K
SE +/- 0.33, N = 3
916
Core i5 2400S
SE +/- 0.33, N = 3
817
FX-8150
SE +/- 0.00, N = 3
1002
200
400
600
800
1000

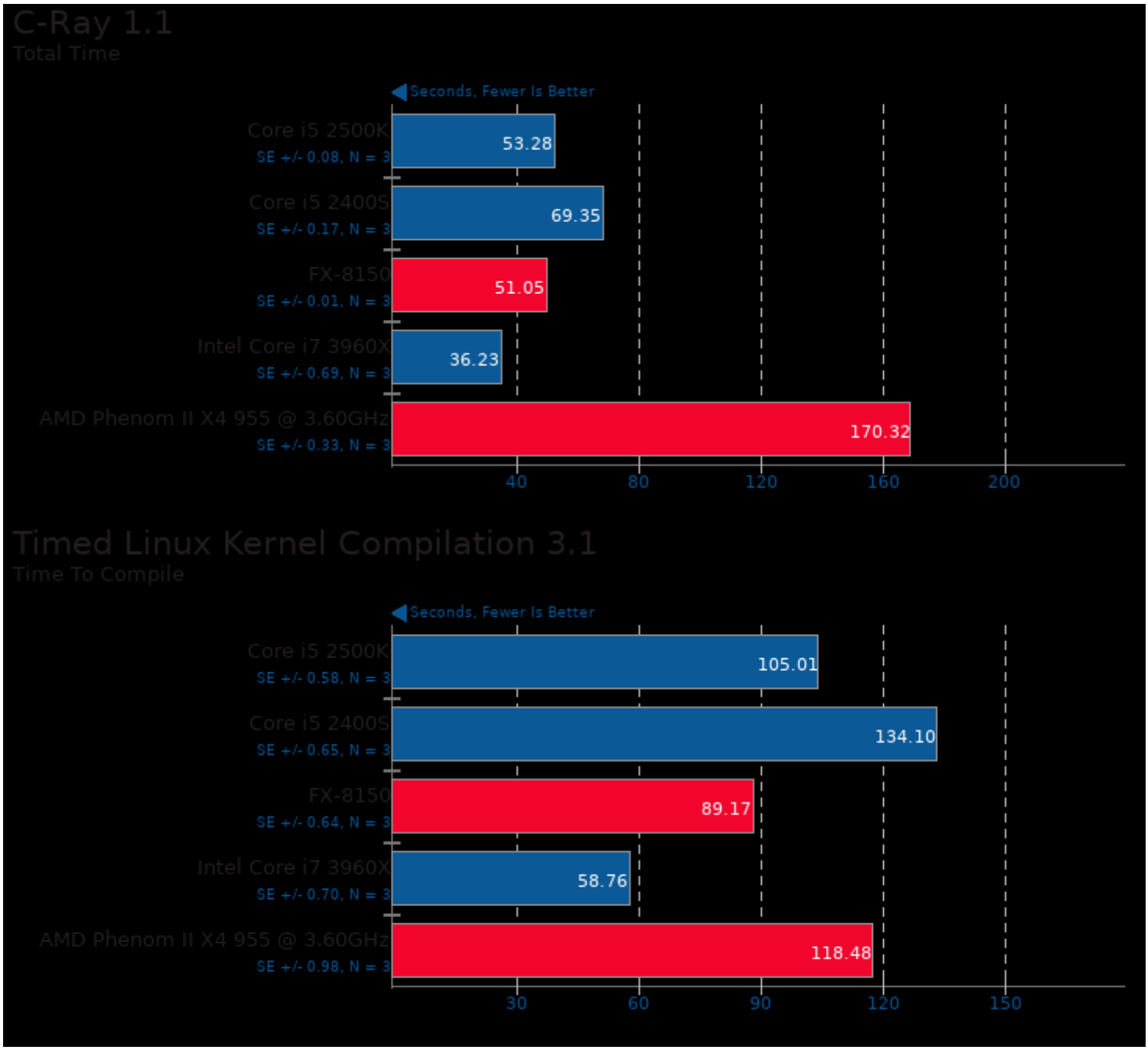

John The Ripper 1.7.9
Test: MD5
Real C/S, More Is Better
Core i5 2500K
SE +/- 8.25, N = 3
14389
Core i5 2400S
SE +/- 0.88, N = 3
12815
FX-8150
SE +/- 17.19, N = 3
15381
3K
6K
9K
12K
15K
John The Ripper 1.7.9
Test: Traditional DES
Real C/S, More Is Better
Core i5 2500K
SE +/- 4807.40, N = 3
5060667
Core i5 2400S
SE +/- 6064.47, N = 3
4513333
FX-8150
SE +/- 6691.62, N = 3
4298667
1.1M
2.2M
3.3M
4.4M
5.5M
OpenSSL 1.0.0e
RSA 4096-bit Performance
Signs Per Second, More Is Better
Core i5 2500K
SE +/- 0.25, N = 4
86.88
Core i5 2400S
SE +/- 0.28, N = 4
77.65
FX-8150
SE +/- 0.32, N = 4
68.50
20
40
60
80
100


LAME MP3 Encoding 3.99.3
WAV To MP3
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.00, N = 5
14.27
Core i5 2400S
SE +/- 0.01, N = 5
16.01
FX-8150
SE +/- 0.02, N = 5
19.56
5
10
15
20
25
FLAC Audio Encoding 1.2.1
WAV To FLAC
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.01, N = 5
6.19
Core i5 2400S
SE +/- 0.00, N = 5
6.94
FX-8150
SE +/- 0.01, N = 5
7.85
2
4
6
8
10
FFmpeg 0.8.7
AVI To NTSC VCD
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.21, N = 3
16.00
Core i5 2400S
SE +/- 0.18, N = 3
16.32
FX-8150
SE +/- 0.06, N = 3
9.98
4
8
12
16
20


x264 2011-12-06
H.264 Video Encoding
Frames Per Second, More Is Better
Core i5 2500K
SE +/- 0.44, N = 3
96.53
Core i5 2400S
SE +/- 0.47, N = 3
77.13
FX-8150
SE +/- 0.35, N = 3
135.76
30
60
90
120
150
VP8 libvpx Encoding 0.9.7-p1
vpxenc
Frames Per Second, More Is Better
Core i5 2500K
SE +/- 0.20, N = 3
27.86
Core i5 2400S
SE +/- 0.21, N = 3
21.98
FX-8150
SE +/- 0.08, N = 3
20.54
7
14
21
28
35
TSCP 1.81
AI Chess Performance
Nodes Per Second, More Is Better
Core i5 2500K
SE +/- 769.75, N = 5
531438
Core i5 2400S
SE +/- 1555.49, N = 5
472953
FX-8150
SE +/- 179.50, N = 5
314371
110K
220K
330K
440K
550K


7-Zip Compression 9.20.1
Compress Speed Test
MIPS, More Is Better
Core i5 2500K
SE +/- 12.77, N = 3
12802
Core i5 2400S
SE +/- 7.64, N = 3
10244
FX-8150
SE +/- 251.61, N = 3
17915
4K
8K
12K
16K
20K
Timed PHP Compilation 5.2.9
Time To Compile
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.03, N = 3
32.65
Core i5 2400S
SE +/- 0.02, N = 3
39.71
FX-8150
SE +/- 0.03, N = 3
30.39
9
18
27
36
45
Warsow 0.61
Resolution: 1920 x 1080
Frames Per Second, More Is Better
Core i5 2500K
SE +/- 0.74, N = 3
355.73
Core i5 2400S
SE +/- 0.62, N = 3
323.97
FX-8150
SE +/- 4.92, N = 6
353.92
80
160
240
320
400


Xonotic 0.5
Resolution: 1920 x 1080
Frames Per Second, More Is Better
Core i5 2500K
SE +/- 0.41, N = 3
218.17
Core i5 2400S
SE +/- 0.23, N = 3
212.43
FX-8150
SE +/- 0.91, N = 3
232.40
50
100
150
200
250
Nexuiz 2.5.2
Resolution: 1920 x 1080 - HDR: Yes - Sound: On
Frames Per Second, More Is Better
Core i5 2500K
SE +/- 0.56, N = 3
135.89
Core i5 2400S
SE +/- 0.14, N = 3
123.11
FX-8150
SE +/- 0.19, N = 3
116.74
30
60
90
120
150
Smallpt 1.0
Global Illumination Renderer; 100 Samples
Seconds, Fewer Is Better
Core i5 2500K
SE +/- 0.33, N = 3
150
Core i5 2400S
SE +/- 2.33, N = 3
199
FX-8150
SE +/- 0.33, N = 3
104
Intel Core i7 3960X
SE +/- 0.00, N = 3
67
AMD Phenom II X4 955 @ 3.60GHz
SE +/- 0.00, N = 3
240
50
100
150
200
250



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