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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:

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

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

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 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.

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.

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

	Intel Core i7 3960X	AMD Phenom II X4 955 @ 3.60GHz	Core i5 2500K	Core i5 2400S	FX-8150	Intel Core i5 2500K: Core i5 2500K	Intel Core i5 2500K: Core i5 2400S
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%		
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%		
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%		
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%		
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%		
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%		
GraphicsMagick - HWB Color Space			**165**	**142**	**165**		
Normalized			100%	86.06%	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 - L.A.T (Iterations/min)			51	**41**	**68**		
Normalized			75%	60.29%	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 - Sharpen (Iterations/min)			48	**38**	**65**		
Normalized			73.85%	58.46%	100%		
Standard Deviation			0%	0%	0%		
Himeno Benchmark - P.P.S (MFLOPS)			**1414**	1255	**374.17**		
Normalized			100%	88.76%	26.47%		
Standard Deviation			1.4%	1.9%	0.4%		

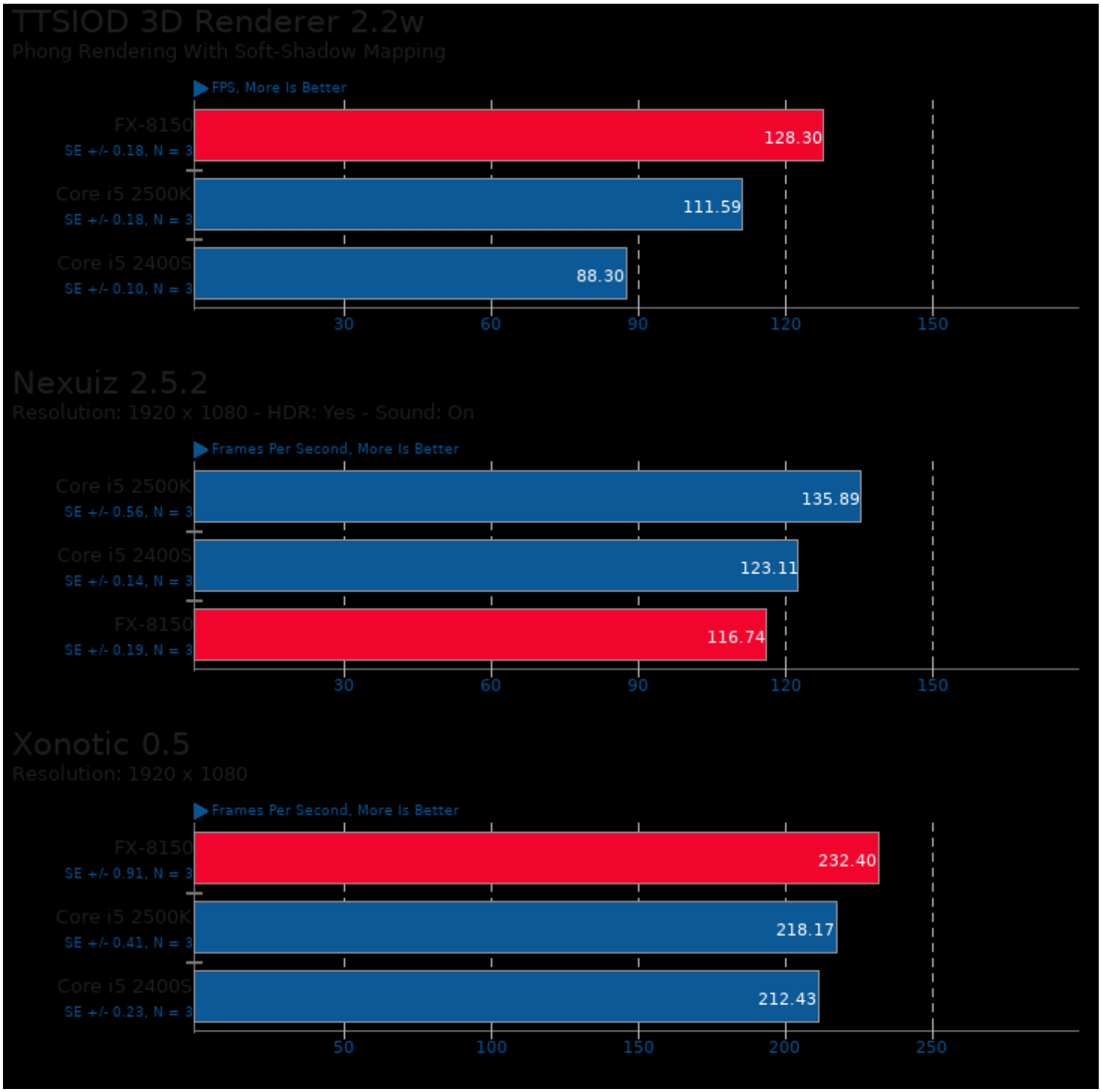
Intel Core i7 3960X Linux, Intel Sandy Bridge vs. AMD Bulldozer, Intel Core i5 2500K

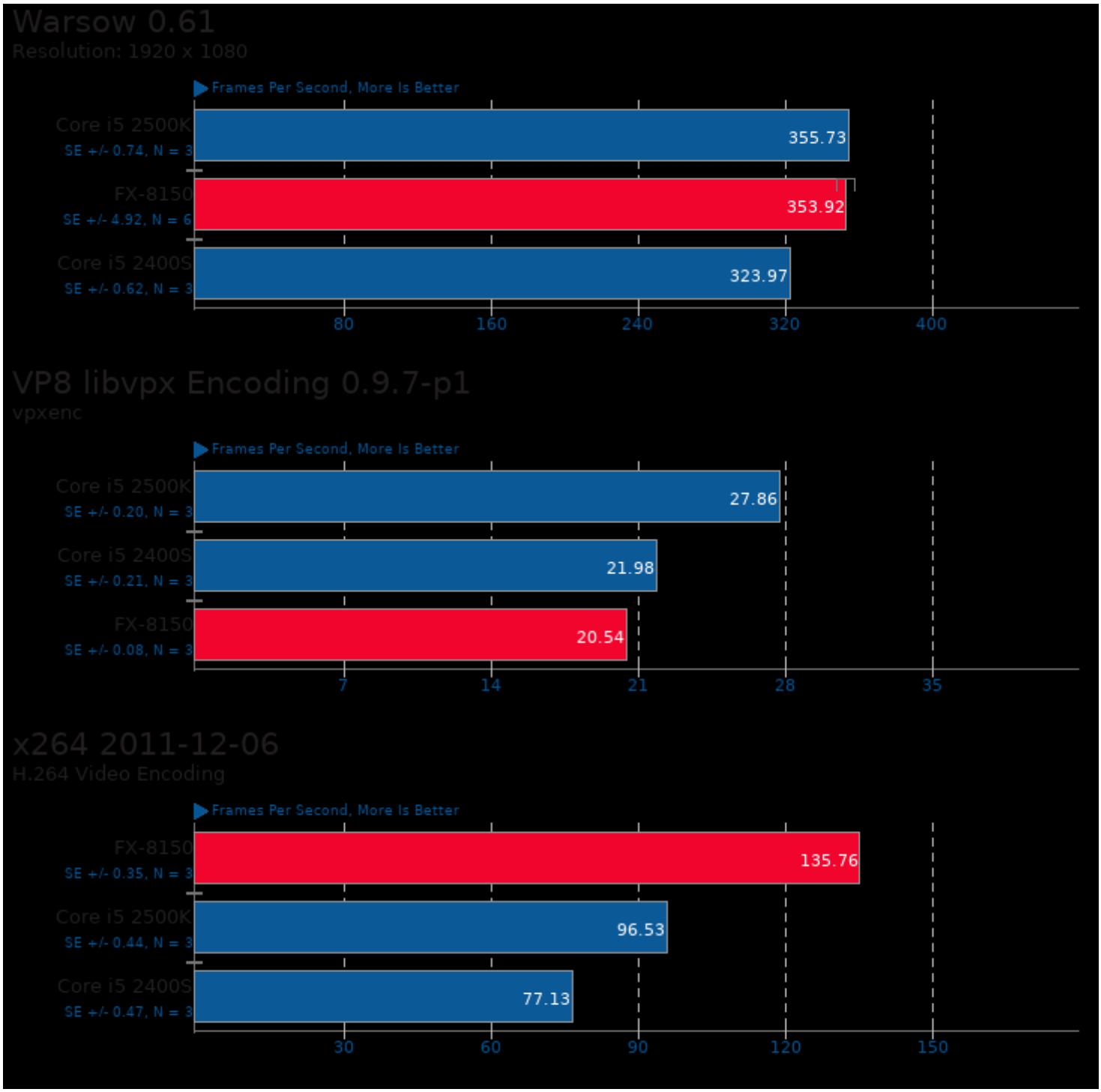
7-Zip Compression - C.S.T (MIPS)	12802	**10244**	**17915**
Normalized	71.46%	57.18%	100%
Standard Deviation	0.2%	0.1%	2.4%
TSCP - A.C.P (Nodes/s)	**531438**	472953	**314371**
Normalized	100%	88.99%	59.15%
Standard Deviation	0.3%	0.7%	0.1%
John The Ripper - Traditional DES (Real C/S)	**5060667**	4513333	**4298667**
Normalized	100%	89.18%	84.94%
Standard Deviation	0.2%	0.2%	0.3%
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 - Blowfish (Real C/S)	916	**817**	**1002**
Normalized	91.42%	81.54%	100%
Standard Deviation	0.1%	0.1%	0%
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%
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%
NAS Parallel Benchmarks - BT.A (Mop/s)	**11947**	**9567**	11152
Normalized	100%	80.08%	93.35%
Standard Deviation	0%	0%	0.7%
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 - 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 - FT.B (Mop/s)	6014	**4819**	**6410**
Normalized	93.82%	75.18%	100%
Standard Deviation	0.1%	0.1%	0.4%
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 - LU.A (Mop/s)	10228	**8174**	**11631**
Normalized	87.94%	70.28%	100%
Standard Deviation	0.5%	0.3%	0.2%

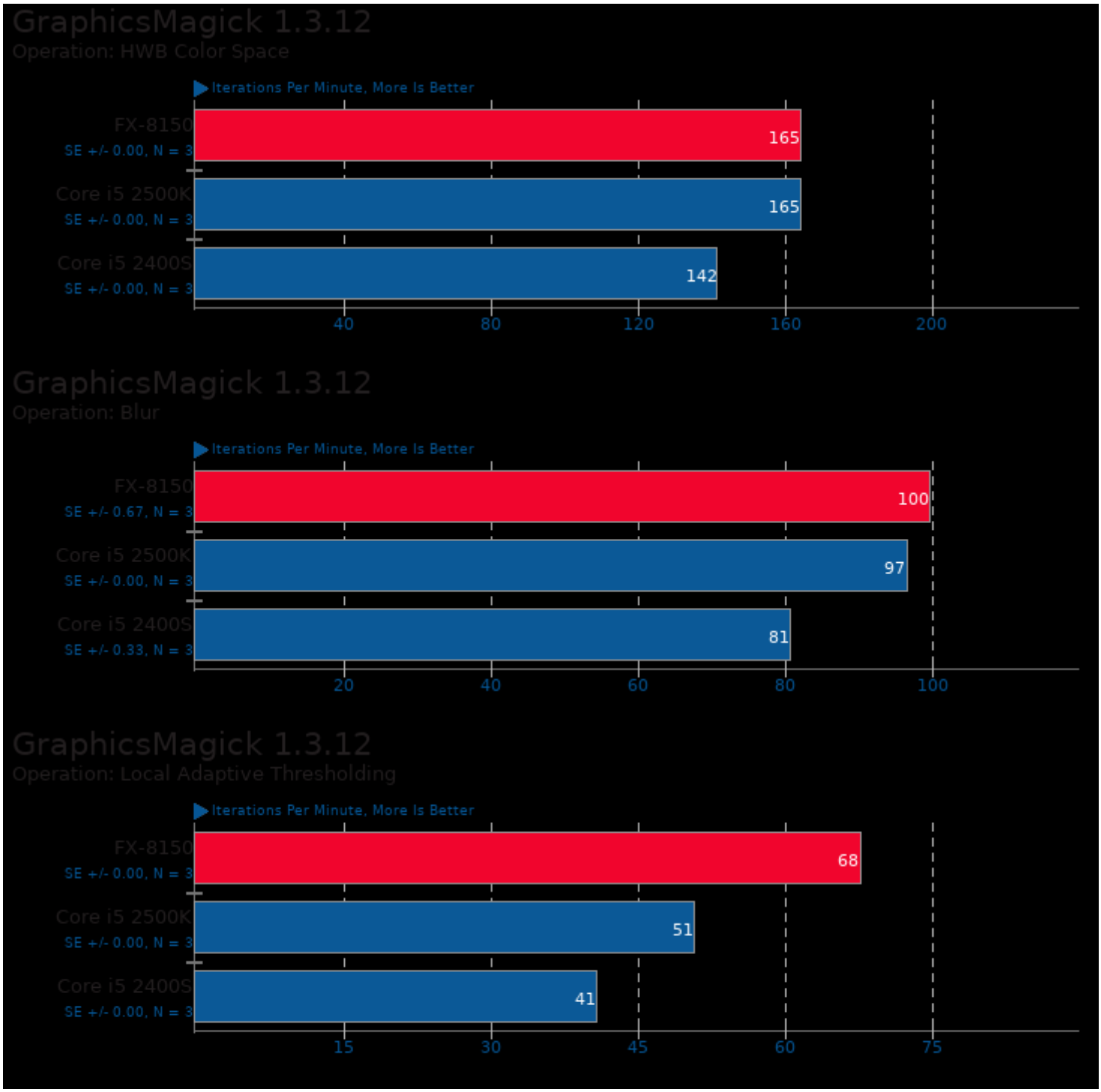
NAS Parallel Benchmarks - MG.B (Mop/s)			6319	5796	4369
Normalized			100%	91.72%	69.15%
Standard Deviation			0.1%	0.3%	0.1%
NAS Parallel Benchmarks - SP.A (Mop/s)			6180	5436	5379
Normalized			100%	87.95%	87.04%
Standard Deviation			0.3%	0.3%	1.1%
NAS Parallel Benchmarks - UA.A (Mop/s)			36.98	31.33	40.14
Normalized			92.13%	78.05%	100%
Standard Deviation			0.3%	0.2%	0.3%
Timed Linux Kernel Compilation - Time To Compile (sec)	58.76	118.48	105.01	134.10	89.17
Normalized	100%	49.59%	55.96%	43.82%	65.9%
Standard Deviation	2.1%	1.4%	1%	0.8%	1.2%
C-Ray - Total Time (sec)	36.23	170.32	53.28	69.35	51.05
Normalized	100%	21.27%	68%	52.24%	70.97%
Standard Deviation	3.3%	0.3%	0.3%	0.4%	0%
Smallpt - G.I.R.1.S (sec)	67	240	150	199	104
Normalized	100%	27.92%	44.67%	33.67%	64.42%
Standard Deviation	0%	0%	0.4%	2%	0.6%
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%
FFmpeg - AVI To NTSC VCD (sec)			16.00	16.32	9.98
Normalized			62.38%	61.15%	100%
Standard Deviation			2.2%	2%	1%
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%
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%
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%
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%
Minion - Bibd (sec)			121.11	135.79	167.25
Normalized			100%	89.19%	72.41%
Standard Deviation			0.5%	0.4%	0.7%
Minion - Graceful (sec)			70.09	78.21	86.34
Normalized			100%	89.62%	81.18%
Standard Deviation			0.2%	0%	0.3%

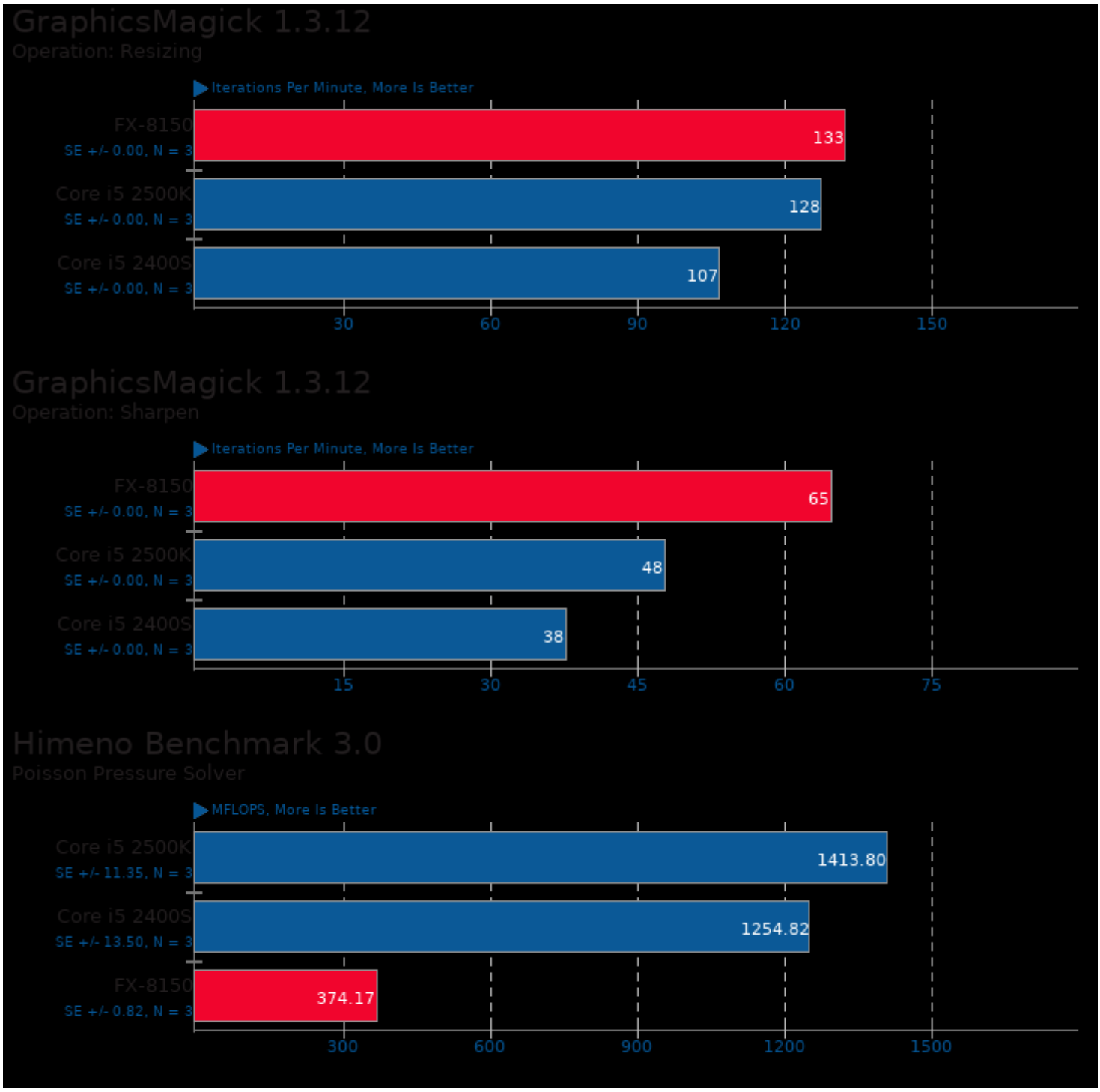
Intel Core i7 3960X Linux, Intel Sandy Bridge vs. AMD Bulldozer, Intel Core i5 2500K

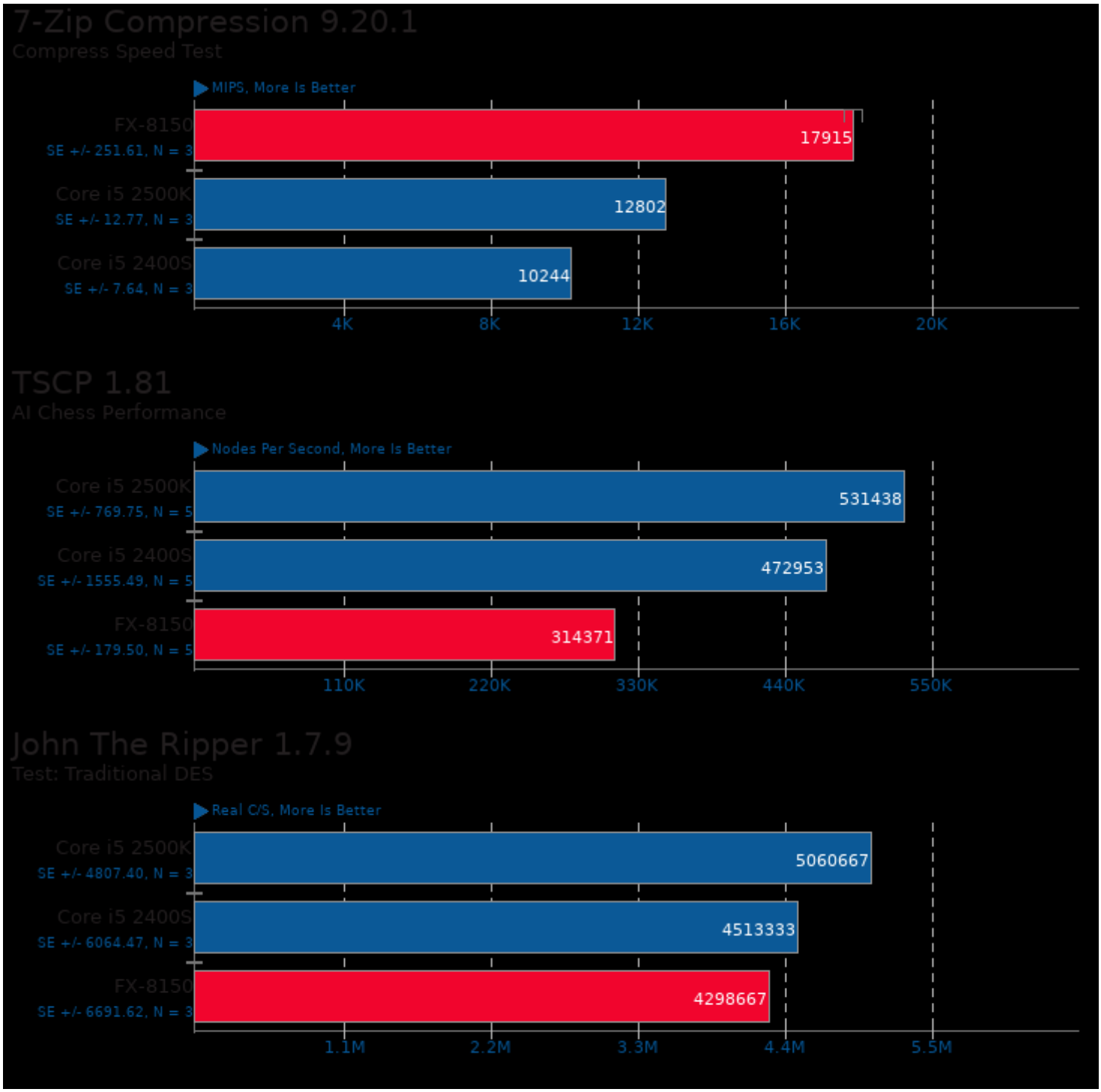
Minion - Quasigroup (sec)	**157.50**	178.03	**198.52**
Normalized	100%	88.47%	79.34%
Standard Deviation	0.3%	1.2%	1%
Minion - Solitaire (sec)	**111.31**	124.86	**160.48**
Normalized	100%	89.15%	69.36%
Standard Deviation	0.4%	0.7%	1.1%

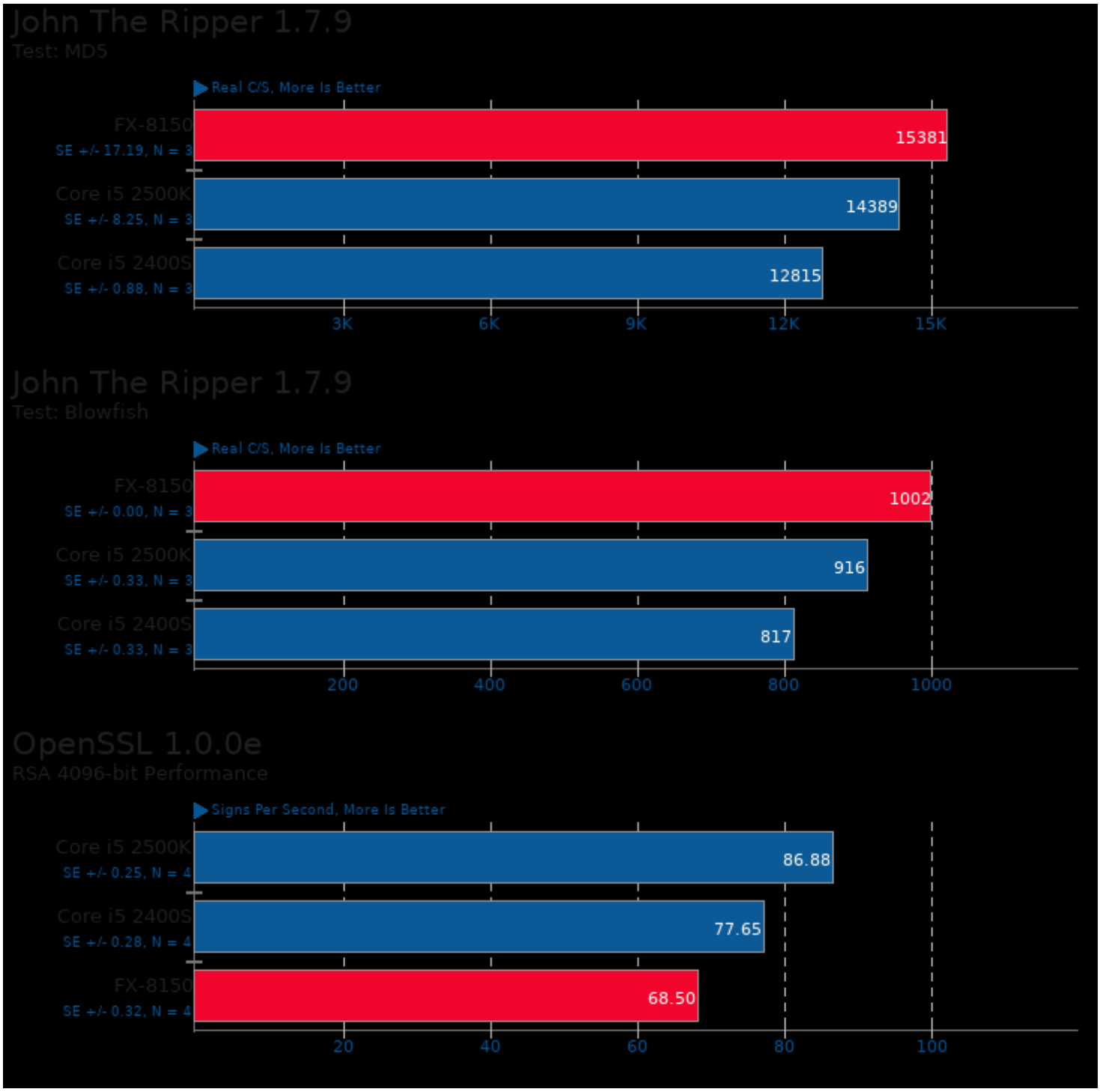

TTSIOD 3D Renderer 2.2w
Phong Rendering With Soft-Shadow Mapping
FPS, More Is Better
FX-8150
SE +/- 0.18, N = 3
128.30
Core i5 2500K
SE +/- 0.18, N = 3
111.59
Core i5 2400S
SE +/- 0.10, N = 3
88.30
30
60
90
120
150
Nexuiz 2.5.2
Resolution: 1920 x 1080 - HDR: Yes - Sound: On
Frames Per Second, More Is 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
Xonotic 0.5
Resolution: 1920 x 1080
Frames Per Second, More Is Better
FX-8150
SE +/- 0.91, N = 3
232.40
Core i5 2500K
SE +/- 0.41, N = 3
218.17
Core i5 2400S
SE +/- 0.23, N = 3
212.43
50
100
150
200
250


Warsow 0.61
Resolution: 1920 x 1080
Frames Per Second, More Is Better
Core i5 2500K
SE +/- 0.74, N = 3
355.73
FX-8150
SE +/- 4.92, N = 6
353.92
Core i5 2400S
SE +/- 0.62, N = 3
323.97
80
160
240
320
400
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
x264 2011-12-06
H.264 Video Encoding
Frames Per Second, More Is Better
FX-8150
SE +/- 0.35, N = 3
135.76
Core i5 2500K
SE +/- 0.44, N = 3
96.53
Core i5 2400S
SE +/- 0.47, N = 3
77.13
30
60
90
120
150

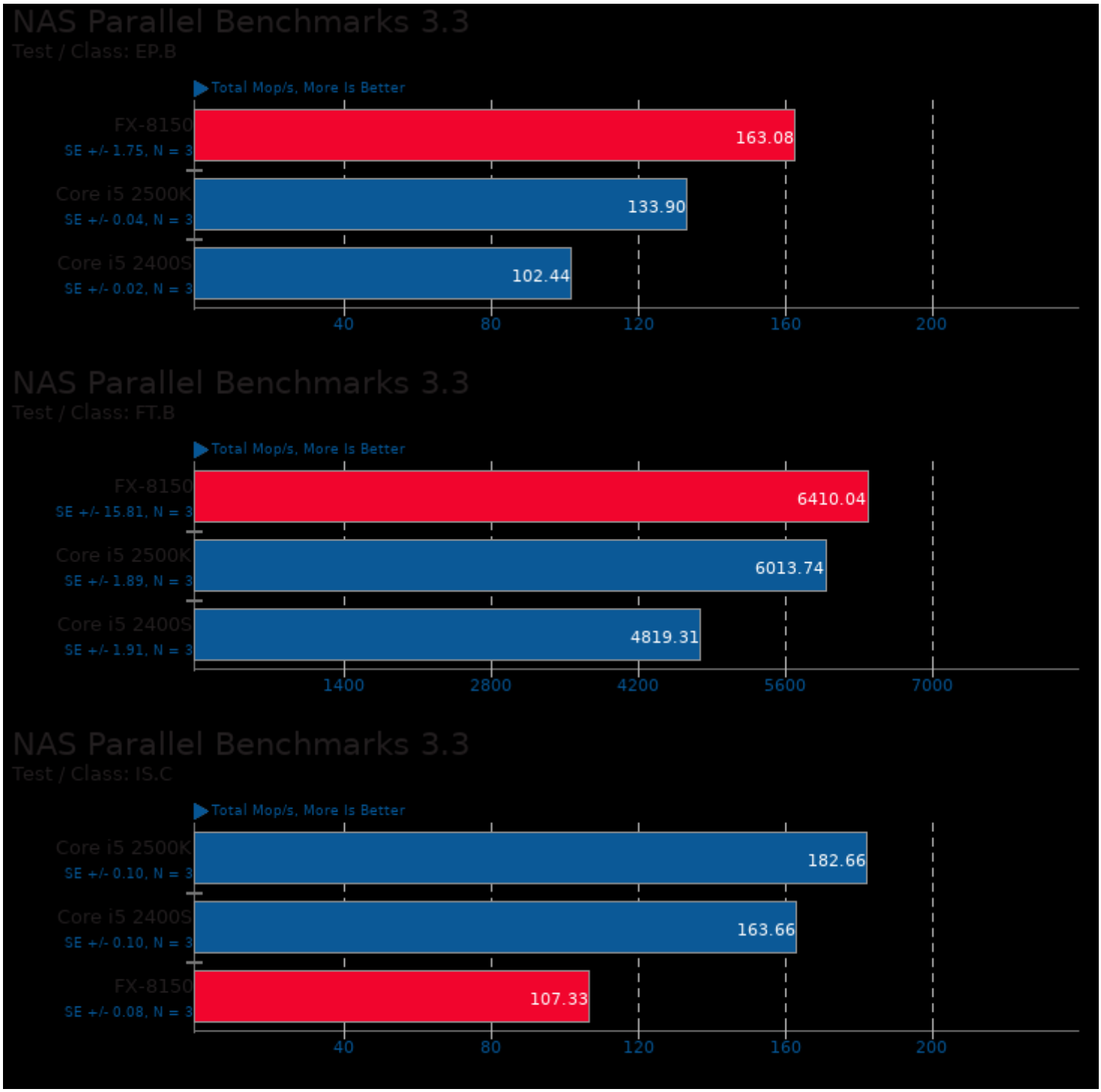

GraphicsMagick 1.3.12
Operation: HWB Color Space
Iterations Per Minute, More Is Better
FX-8150
SE +/- 0.00, N = 3
165
Core i5 2500K
SE +/- 0.00, N = 3
165
Core i5 2400S
SE +/- 0.00, N = 3
142
40
80
120
160
200
GraphicsMagick 1.3.12
Operation: Blur
Iterations Per Minute, More Is Better
FX-8150
SE +/- 0.67, N = 3
100
Core i5 2500K
SE +/- 0.00, N = 3
97
Core i5 2400S
SE +/- 0.33, N = 3
81
20
40
60
80
100
GraphicsMagick 1.3.12
Operation: Local Adaptive Thresholding
Iterations Per Minute, More Is Better
FX-8150
SE +/- 0.00, N = 3
68
Core i5 2500K
SE +/- 0.00, N = 3
51
Core i5 2400S
SE +/- 0.00, N = 3
41
15
30
45
60
75

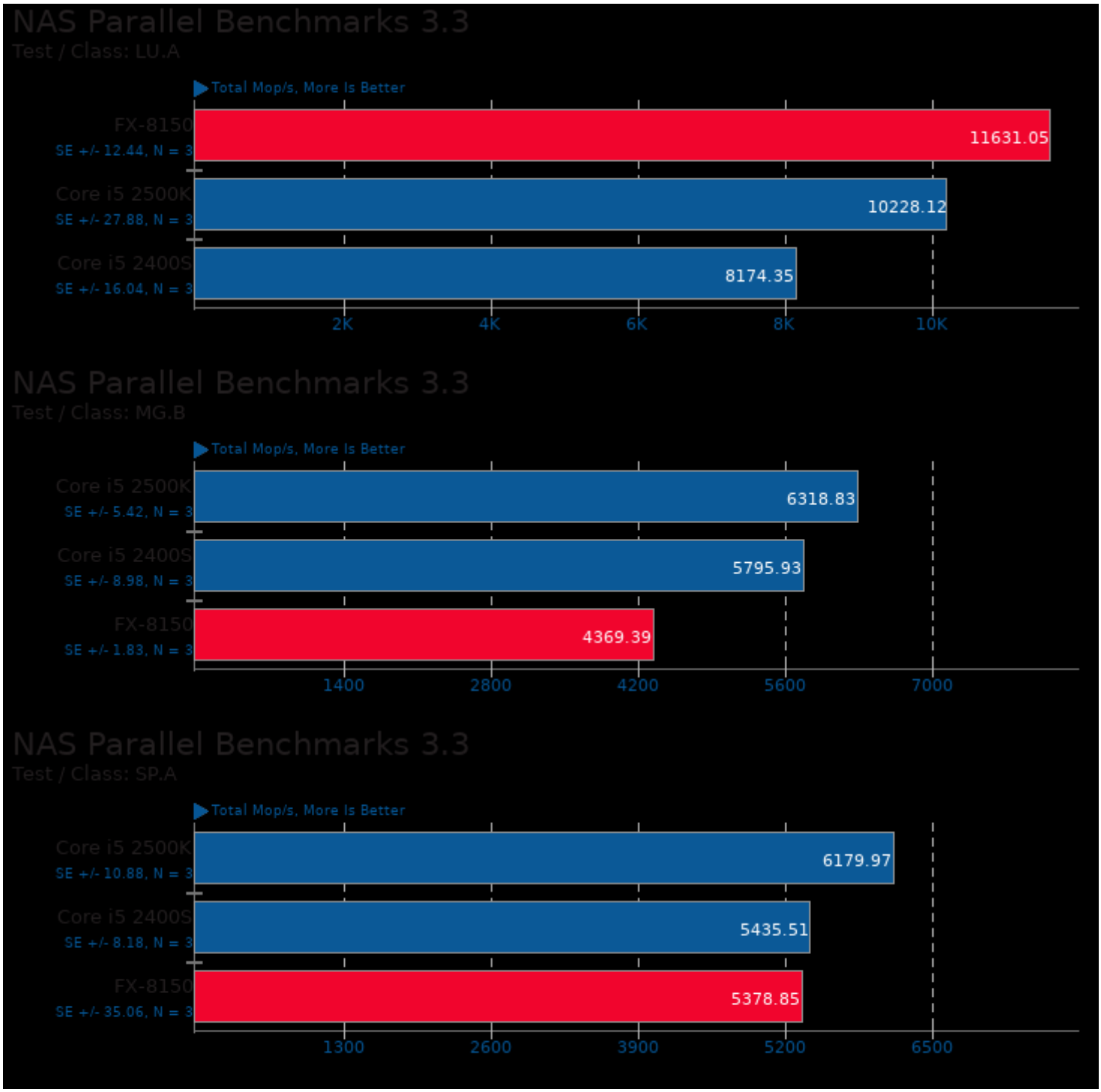

GraphicsMagick 1.3.12
Operation: Resizing
Iterations Per Minute, More Is Better
FX-8150
SE +/- 0.00, N = 3
133
Core i5 2500K
SE +/- 0.00, N = 3
128
Core i5 2400S
SE +/- 0.00, N = 3
107
30
60
90
120
150
GraphicsMagick 1.3.12
Operation: Sharpen
Iterations Per Minute, More Is Better
FX-8150
SE +/- 0.00, N = 3
65
Core i5 2500K
SE +/- 0.00, N = 3
48
Core i5 2400S
SE +/- 0.00, N = 3
38
15
30
45
60
75
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

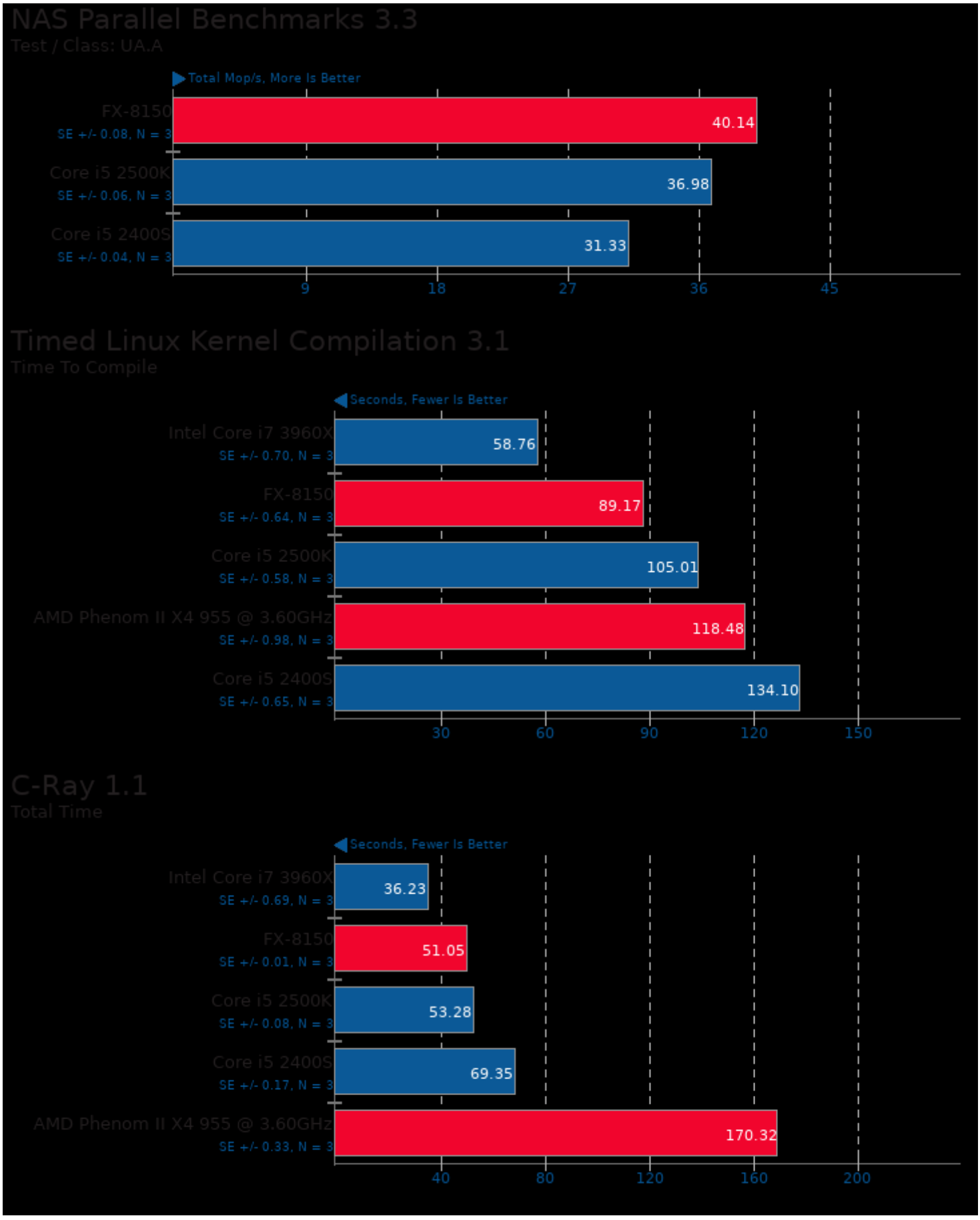

7-Zip Compression 9.20.1
Compress Speed Test
MIPS, More Is Better
FX-8150
SE +/- 251.61, N = 3
17915
Core i5 2500K
SE +/- 12.77, N = 3
12802
Core i5 2400S
SE +/- 7.64, N = 3
10244
4K
8K
12K
16K
20K
TSCP 1.81
AI Chess Performance
Nodes Per Second, More Is Better
Core i5 2500K
SE +/- 769.75, N = 5
531438
Core i5 2400S
SE +/- 1555.49, N = 5
472953
FX-8150
SE +/- 179.50, N = 5
314371
110K
220K
330K
440K
550K
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

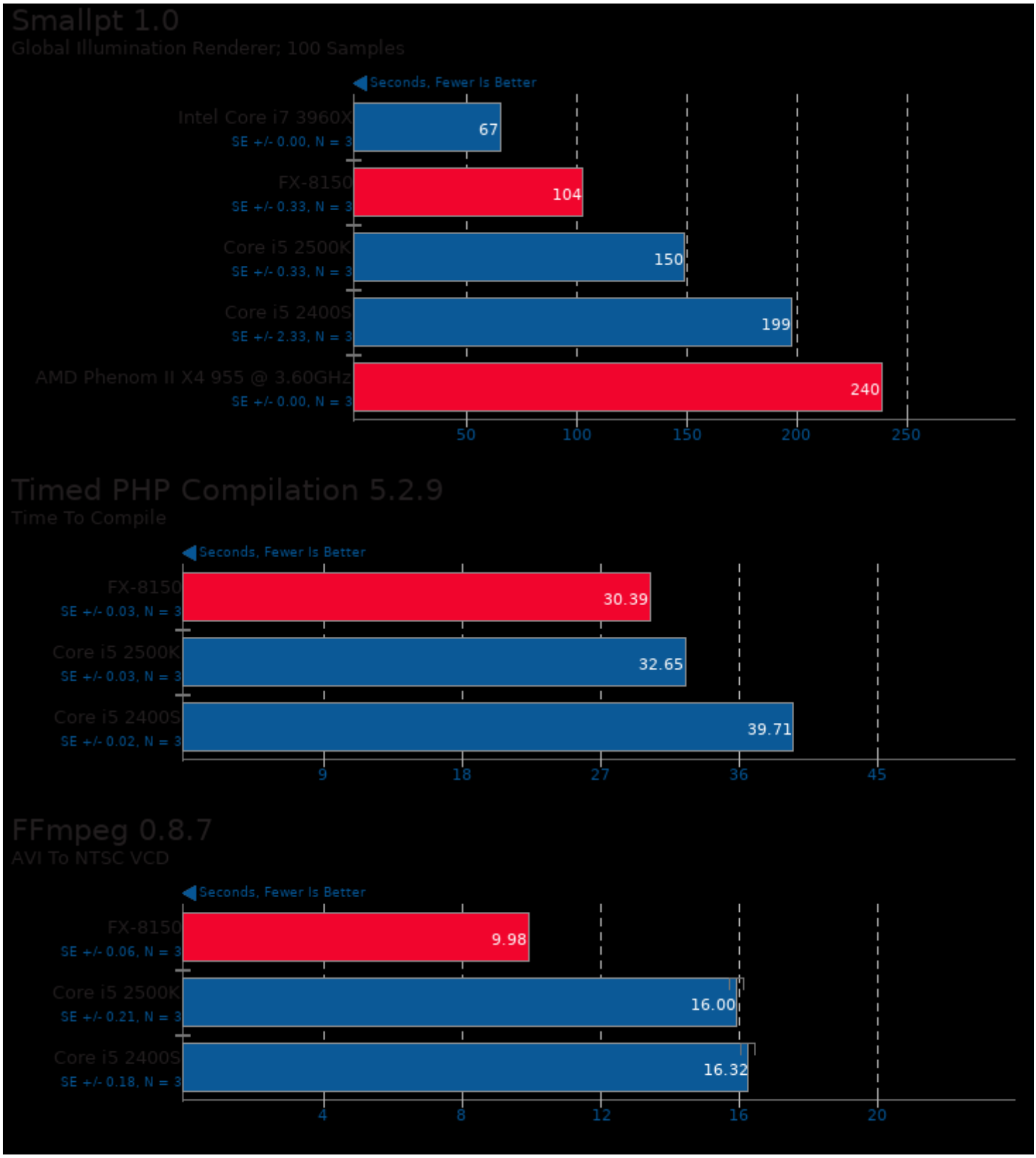

John The Ripper 1.7.9
Test: MD5
Real C/S, More Is Better
FX-8150
SE +/- 17.19, N = 3
15381
Core i5 2500K
SE +/- 8.25, N = 3
14389
Core i5 2400S
SE +/- 0.88, N = 3
12815
3K
6K
9K
12K
15K
John The Ripper 1.7.9
Test: Blowfish
Real C/S, More Is Better
FX-8150
SE +/- 0.00, N = 3
1002
Core i5 2500K
SE +/- 0.33, N = 3
916
Core i5 2400S
SE +/- 0.33, N = 3
817
200
400
600
800
1000
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

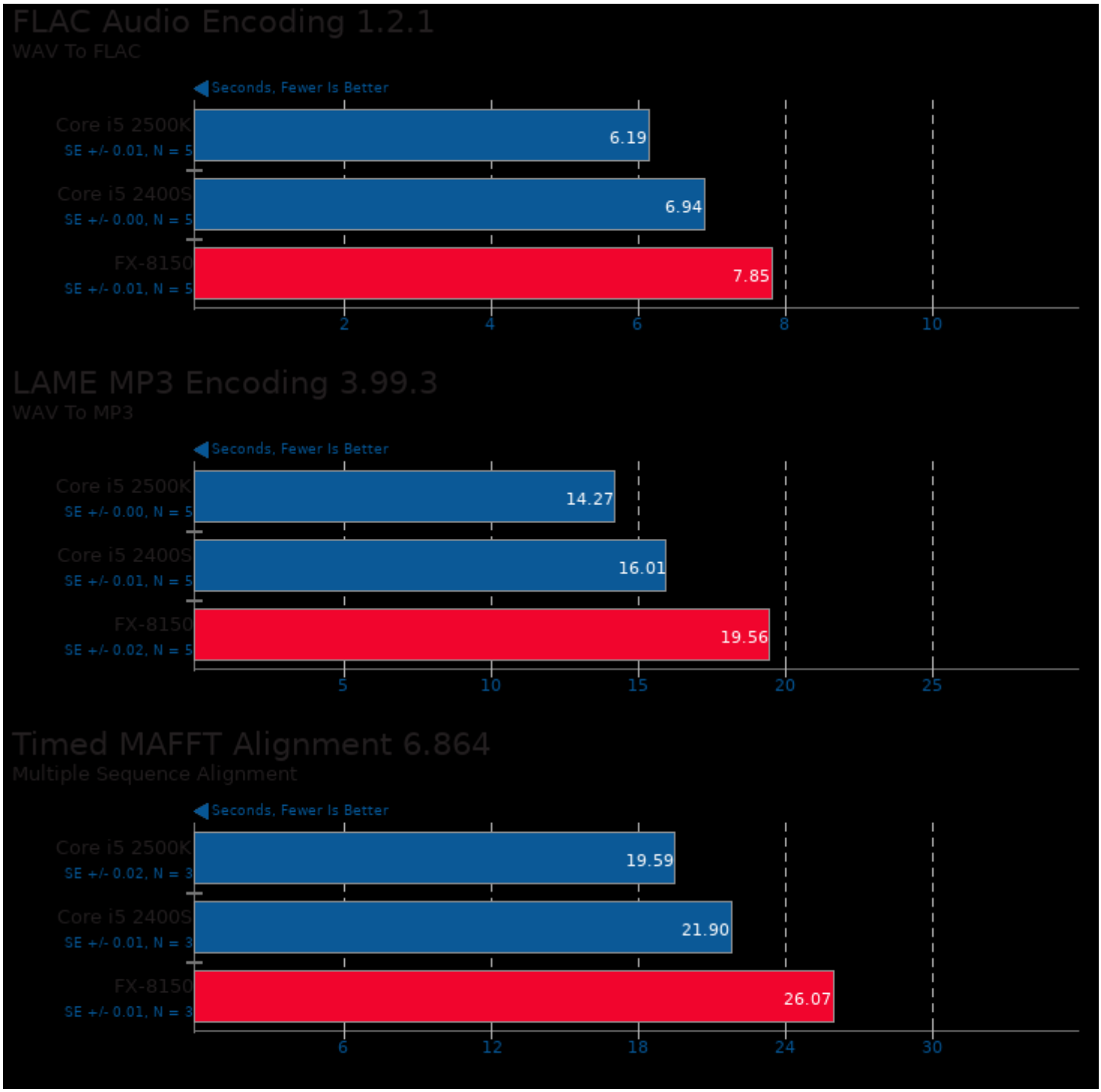

CLOMP 3.3
Static OMP Speedup
Speedup, More Is Better
Core i5 2500K
SE +/- 0.00, N = 5
3.19
Core i5 2400S
SE +/- 0.01, N = 5
2.74
FX-8150
SE +/- 0.03, N = 5
2.46
0.7178
1.4356
2.1534
2.8712
3.589
NAS Parallel Benchmarks 3.3
Test / Class: BT.A
Total Mop/s, More Is Better
Core i5 2500K
SE +/- 2.89, N = 3
11946.95
FX-8150
SE +/- 45.59, N = 3
11152.49
Core i5 2400S
SE +/- 2.08, N = 3
9566.81
3K
6K
9K
12K
15K
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
FX-8150
SE +/- 1.28, N = 3
2495.38
Core i5 2400S
SE +/- 1.25, N = 3
2430.27
600
1200
1800
2400
3000

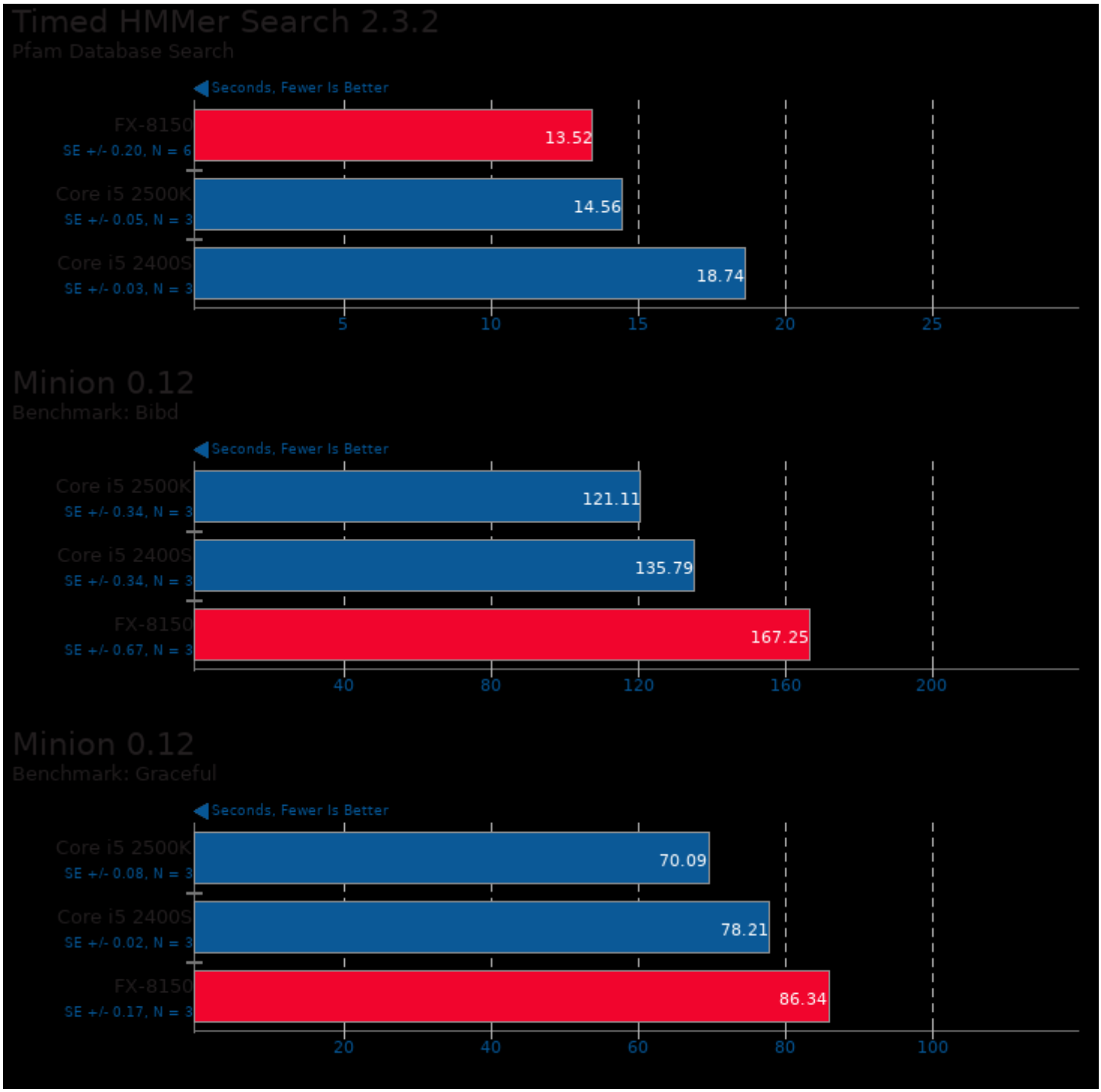

NAS Parallel Benchmarks 3.3
Test / Class: EP.B
Total Mop/s, More Is Better
FX-8150
SE +/- 1.75, N = 3
163.08
Core i5 2500K
SE +/- 0.04, N = 3
133.90
Core i5 2400S
SE +/- 0.02, N = 3
102.44
40
80
120
160
200
NAS Parallel Benchmarks 3.3
Test / Class: FT.B
Total Mop/s, More Is Better
FX-8150
SE +/- 15.81,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

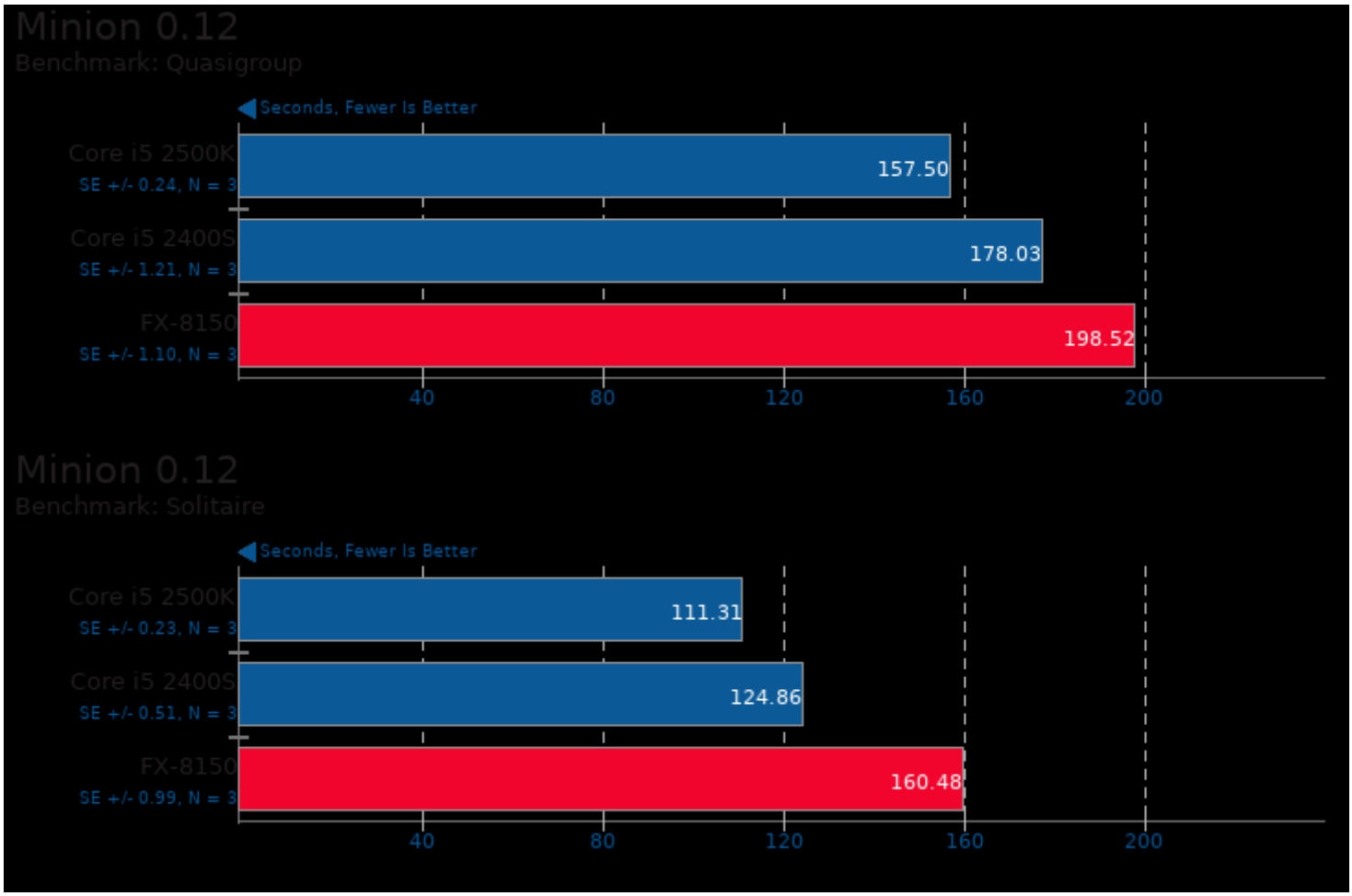

NAS Parallel Benchmarks 3.3
Test / Class: LU.A
Total Mop/s, More Is Better
FX-8150
SE +/- 12.44, N = 3
11631.05
Core i5 2500K
SE +/- 27.88, N = 3
10228.12
Core i5 2400S
SE +/- 16.04, N = 3
8174.35
2K
4K
6K
8K
10K
NAS Parallel Benchmarks 3.3
Test / Class: MG.B
Total Mop/s, More Is Better
Core i5 2500K
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: 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: UA.A
Total Mop/s, More Is Better
FX-8150
SE +/- 0.08, N = 3
40.14
Core i5 2500K
SE +/- 0.06, N = 3
36.98
Core i5 2400S
SE +/- 0.04, N = 3
31.33
9
18
27
36
45
Timed Linux Kernel Compilation 3.1
Time To Compile
Seconds, Fewer Is Better
Intel Core i7 3960X
SE +/- 0.70, N = 3
58.76
FX-8150
SE +/- 0.64, N = 3
89.17
Core i5 2500K
SE +/- 0.58, N = 3
105.01
AMD Phenom II X4 955 @ 3.60GHz
SE +/- 0.98, N = 3
118.48
Core i5 2400S
SE +/- 0.65, N = 3
134.10
30
60
90
120
150
C-Ray 1.1
Total Time
Seconds, Fewer Is Better
Intel Core i7 3960X
SE +/- 0.69, N = 3
36.23
FX-8150
SE +/- 0.01, N = 3
51.05
Core i5 2500K
SE +/- 0.08, N = 3
53.28
Core i5 2400S
SE +/- 0.17, N = 3
69.35
AMD Phenom II X4 955 @ 3.60GHz
SE +/- 0.33, N = 3
170.32
40
80
120
160
200


Smallpt 1.0
Global Illumination Renderer; 100 Samples
Seconds, Fewer Is Better
Intel Core i7 3960X
SE +/- 0.00, N = 3
67
FX-8150
SE +/- 0.33, N = 3
104
Core i5 2500K
SE +/- 0.33, N = 3
150
Core i5 2400S
SE +/- 2.33, N = 3
199
AMD Phenom II X4 955 @ 3.60GHz
SE +/- 0.00, N = 3
240
50
100
150
200
250
Timed PHP Compilation 5.2.9
Time To Compile
Seconds, Fewer Is Better
FX-8150
SE +/- 0.03, N = 3
30.39
Core i5 2500K
SE +/- 0.03, N = 3
32.65
Core i5 2400S
SE +/- 0.02, N = 3
39.71
9
18
27
36
45
FFmpeg 0.8.7
AVI To NTSC VCD
Seconds, Fewer Is Better
FX-8150
SE +/- 0.06, N = 3
9.98
Core i5 2500K
SE +/- 0.21, N = 3
16.00
Core i5 2400S
SE +/- 0.18, N = 3
16.32
4
8
12
16
20


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
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
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


Timed HMMer Search 2.3.2
Pfam Database Search
Seconds, Fewer Is Better
FX-8150
SE +/- 0.20, N = 6
13.52
Core i5 2500K
SE +/- 0.05, N = 3
14.56
Core i5 2400S
SE +/- 0.03, N = 3
18.74
5
10
15
20
25
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
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



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