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Windows 10 Threadripper 3990X

AMD Eng Sample: 100-000000163_43/29_Y testing with a Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS) and AMD Radeon RX 5700 + AMD Radeon RX 5700 4GB on Microsoft Windows 10 Pro Build 21382 via the Phoronix Test Suite.

Automated Executive Summary

Windows 10 b19042 had the most wins, coming in first place for 82% of the tests.

Based on the geometric mean of all complete results, the fastest (Windows 10 b19042) was 1.119x the speed of the slowest (Windows 10 b21382).

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

Zstd Compression (Compression Level: 8 - Compression Speed) at 4.84x
Appleseed (Scene: Material Tester) at 3.081x
Zstd Compression (Compression Level: 8, Long Mode - Compression Speed) at 2.275x
Stockfish (Total Time) at 1.814x
WebP Image Encode (Encode Settings: Quality 100, Lossless) at 1.78x
asmFish (1024 Hash Memory, 26 Depth) at 1.752x
WebP Image Encode (Encode Settings: Quality 100, Lossless, Highest Compression) at 1.708x
Chaos Group V-RAY (Mode: CPU) at 1.636x
LeelaChessZero (Backend: BLAS) at 1.559x

Appleseed (Scene: Emily) at 1.549x.

Test Systems:

Windows 10 b19042

Processor: AMD Eng Sample: 100-000000163_43/29_Y @ 2.90GHz (64 Cores / 128 Threads), Motherboard: Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS), Memory: 4 x 32768 MB 3000MHz CMK64GX4M2D3000C16, Disk: 15GB Corsair Voyager 3.0 USB + 466GB Samsung SSD 970 EVO Plus 500GB, Graphics: AMD Radeon RX 5700 + AMD Radeon RX 5700 4GB, Audio: AMD HD Audio Device + USB Audio 2.0, Monitor: DELL 415Q, Network: Intel Wi-Fi 6 AX200 160MHz + Intel I211 Gigabit Connection

OS: Microsoft Windows 10 Pro Build 19042, Kernel: 10.0 (x86_64), Display Driver: 27.20.1034.6, OpenCL: OpenCL 2.1 AMD-APP (3075.13), File-System: NTFS, Screen Resolution: 3840x2160

Processor Notes: CPU Microcode: 3910300800000000
Java Notes: operable program or batch file.
Python Notes: Python 3.7.1
Security Notes: __user pointer sanitization: Disabled + Retpoline: Full + IBPB: Always + STIBP: Enabled

Windows 10 b21382

Processor: AMD Eng Sample: 100-000000163_43/29_Y @ 2.90GHz (64 Cores / 128 Threads), Motherboard: Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS), Memory: 4 x 32768 MB 3000MHz CMK64GX4M2D3000C16, Disk: 15GB Corsair Voyager 3.0 USB + 466GB Samsung SSD 970 EVO Plus 500GB, Graphics: AMD Radeon RX 5700 + AMD Radeon RX 5700 4GB, Audio: AMD HD Audio Device + USB Audio 2.0, Monitor: DELL 415Q, Network: Intel I211 Gigabit Connection + Intel Wi-Fi 6 AX200 160MHz

OS: Microsoft Windows 10 Pro Build 21382, Kernel: 10.0 (x86_64), Display Driver: 27.20.21002.2004, OpenCL: OpenCL 2.1 AMD-APP (3240.6), Compiler: GCC 8.3.0, File-System: NTFS, Screen Resolution: 3840x2160

Processor Notes: CPU Microcode: 3910300800000000
Java Notes: OpenJDK Runtime Environment 18.9 (build 11.0.6+10-LTS)
Python Notes: Python 3.7.1
Security Notes: __user pointer sanitization: Disabled + Retpoline: Full + IBPB: Always + STIBP: Enabled

	Windows 10 b19042	Windows 10 b21382
Intel Memory Latency Checker - Idle Latency (ns)	**107.1**	**105.5**
Normalized	98.51%	100%
Standard Deviation	1.8%	0%
Intel Memory Latency Checker - Max Bandwidth - All Reads (MB/s)	**75284**	**75524**
Normalized	99.68%	100%
Standard Deviation	0%	0.9%

Intel Memory Latency Checker - Max Bandwidth - 3:1 Reads-Writes (MB/s)	**66796**	**66925**
Normalized	99.81%	100%
Standard Deviation	0%	0.1%
Intel Memory Latency Checker - Max Bandwidth - 2:1 Reads-Writes (MB/s)	**65852**	**66265**
Normalized	99.38%	100%
Standard Deviation	0%	0.1%
Intel Memory Latency Checker - Max Bandwidth - 1:1 Reads-Writes (MB/s)	**64128**	**64470**
Normalized	99.47%	100%
Standard Deviation	0%	0.3%
Intel Memory Latency Checker - Max Bandwidth - Stream-Triad Like (MB/s)	**67600**	**67908**
Normalized	99.55%	100%
Standard Deviation	0%	0.1%
Intel Memory Latency Checker - P.I.B - All Reads	**75619**	**75817**
Normalized	99.74%	100%
Standard Deviation	1%	0.1%
Intel Memory Latency Checker - P.I.B - 3:1 Reads-Writes (MB/s)	**67060**	**67057**
Normalized	100%	100%
Standard Deviation	1%	0.1%
Intel Memory Latency Checker - P.I.B - 2:1 Reads-Writes (MB/s)	**66241**	**66465**
Normalized	99.66%	100%
Standard Deviation	1%	0.1%
Intel Memory Latency Checker - P.I.B - 1:1 Reads-Writes (MB/s)	**64491**	**64770**
Normalized	99.57%	100%
Standard Deviation	1%	0.1%
Intel Memory Latency Checker - P.I.B - Stream-Triad Like (MB/s)	**67985**	**68186**
Normalized	99.71%	100%
Standard Deviation	1%	0.4%
LeelaChessZero - BLAS (Nodes/s)	**329**	**211**
Normalized	100%	64.13%
Standard Deviation	0.5%	1.2%
LeelaChessZero - Eigen (Nodes/s)	**926**	**4885**
Normalized	18.96%	100%
Standard Deviation	37.6%	23.1%
WebP Image Encode - Default (Encode Time - sec)	**1.568**	**1.638**
Normalized	100%	95.73%
Standard Deviation	0.3%	0.2%
WebP Image Encode - Quality 100 (Encode Time - sec)	**2.431**	**2.521**
Normalized	100%	96.43%
Standard Deviation	0.3%	0.2%
WebP Image Encode - Q.1.L (Encode Time - sec)	**16.774**	**29.853**
Normalized	100%	56.19%
Standard Deviation	1.9%	1.5%
WebP Image Encode - Q.1.H.C (Encode Time - sec)	**7.433**	**7.653**
Normalized	100%	97.13%
Standard Deviation	0.4%	0.1%
WebP Image Encode - Q.1.L.H.C (Encode Time - sec)	**36.589**	**62.489**

Normalized	100%	58.55%
Standard Deviation	1.9%	2.5%
DaCapo Benchmark - H2 (msec)	**3617**	**3697**
Normalized	100%	97.84%
Standard Deviation	2.1%	4.1%
DaCapo Benchmark - Jython (msec)	**4839**	**4661**
Normalized	96.32%	100%
Standard Deviation	4.4%	1.3%
DaCapo Benchmark - Tradesoap (msec)	**12047**	**12683**
Normalized	100%	94.99%
Standard Deviation	0.6%	2.1%
DaCapo Benchmark - Tradebeans (msec)	**3122**	**3825**
Normalized	100%	81.62%
Standard Deviation	1.3%	2.4%
LZ4 Compression - 1 - Compression Speed (MB/s)	**10618**	**10534**
Normalized	100%	99.21%
Standard Deviation	1.8%	0.1%
LZ4 Compression - 1 - D.S (MB/s)	**12181**	**12055**
Normalized	100%	98.96%
Standard Deviation	1.8%	0.3%
LZ4 Compression - 3 - Compression Speed (MB/s)	**57.84**	**57.14**
Normalized	100%	98.79%
Standard Deviation	0.9%	0.9%
LZ4 Compression - 3 - D.S (MB/s)	**11621**	**11379**
Normalized	100%	97.92%
Standard Deviation	0.3%	0.5%
LZ4 Compression - 9 - Compression Speed (MB/s)	**56.25**	**54.92**
Normalized	100%	97.64%
Standard Deviation	1.2%	1.9%
LZ4 Compression - 9 - D.S (MB/s)	**11555**	**11420**
Normalized	100%	98.83%
Standard Deviation	0.9%	0.3%
Zstd Compression - 3 - Compression Speed (MB/s)	**7760**	**4260**
Normalized	100%	54.89%
Standard Deviation	14.2%	3.6%
Zstd Compression - 8 - Compression Speed (MB/s)	**2207**	**455.9**
Normalized	100%	20.66%
Standard Deviation	5.9%	0.4%
Zstd Compression - 8 - D.S (MB/s)	**3473**	**3370**
Normalized	100%	97.05%
Standard Deviation	0.9%	0.1%
Zstd Compression - 19 - Compression Speed (MB/s)	**76.3**	**62.1**
Normalized	100%	81.39%
Standard Deviation	0.6%	0.2%
Zstd Compression - 19 - D.S (MB/s)	**3101**	**2391**
Normalized	100%	77.12%
Standard Deviation	0.3%	0.2%
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	**872.7**	**898.3**
Normalized	97.15%	100%
Standard Deviation	12.6%	2.2%
Zstd Compression - 3, Long Mode - D.S (MB/s)	**3647**	**3526**
Normalized	100%	96.7%
Standard Deviation	0.5%	0%

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Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	**1034**	**454.5**
Normalized	100%	43.95%
Standard Deviation	1%	1%
Zstd Compression - 8, Long Mode - D.S (MB/s)	**3800**	**3622**
Normalized	100%	95.31%
Standard Deviation	0.7%	0.5%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	**39.8**	**36.1**
Normalized	100%	90.7%
Standard Deviation	0.6%	0.4%
Zstd Compression - 19, Long Mode - D.S (MB/s)	**3165**	**2662**
Normalized	100%	84.11%
Standard Deviation	0%	0.1%
LibRaw - P.P.B (Mpix/sec)	**8.82**	**8.62**
Normalized	100%	97.73%
Standard Deviation	0.2%	0.3%
Crafty - Elapsed Time (Nodes/s)	**8398685**	**7792272**
Normalized	100%	92.78%
Standard Deviation	0.4%	0.2%
TSCP - A.C.P (Nodes/s)	**1219662**	**1176374**
Normalized	100%	96.45%
Standard Deviation	0.7%	0.1%
John The Ripper - Blowfish (Real C/S)	**66509**	**61246**
Normalized	100%	92.09%
Standard Deviation	1.5%	0.9%
John The Ripper - MD5 (Real C/S)	**2874750**	**2429333**
Normalized	100%	84.51%
Standard Deviation	2.3%	0.6%
GraphicsMagick - Swirl (Iterations/min)	**746**	**724**
Normalized	100%	97.05%
Standard Deviation	4.4%	0.9%
GraphicsMagick - Rotate (Iterations/min)	**335**	**301**
Normalized	100%	89.85%
Standard Deviation	0.5%	
GraphicsMagick - Sharpen (Iterations/min)	173	173
Standard Deviation	1.2%	1.5%
GraphicsMagick - Enhanced (Iterations/min)	**512**	**492**
Normalized	100%	96.09%
Standard Deviation	3.7%	1.2%
GraphicsMagick - Resizing (Iterations/min)	**655**	**620**
Normalized	100%	94.66%
Standard Deviation	0.3%	1.6%
GraphicsMagick - Noise-Gaussian (Iterations/min)	**271**	**251**
Normalized	100%	92.62%
Standard Deviation		2.1%
GraphicsMagick - HWB Color Space (Iterations/min)	**413**	**356**
Normalized	100%	86.2%
Standard Deviation	0.6%	0.7%
dav1d - Summer Nature 4K (FPS)	**413.23**	**404.21**
Normalized	100%	97.82%
Standard Deviation	0.2%	0.4%
dav1d - S.N.1 (FPS)	**1489**	**1410**
Normalized	100%	94.64%
Standard Deviation	0.2%	0.1%

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Embree - Pathtracer - Crown (FPS)	**52.0790**	**47.9578**
Normalized	100%	92.09%
Standard Deviation	0.6%	0.4%
Embree - Pathtracer ISPC - Crown (FPS)	**48.7715**	**44.9993**
Normalized	100%	92.27%
Standard Deviation	0.4%	0.1%
Embree - Pathtracer - Asian Dragon (FPS)	**42.7692**	**42.0337**
Normalized	100%	98.28%
Standard Deviation	0.1%	0.7%
Embree - Pathtracer - Asian Dragon Obj (FPS)	**36.9222**	**36.6534**
Normalized	100%	99.27%
Standard Deviation	0.1%	1%
Embree - Pathtracer ISPC - Asian Dragon (FPS)	**41.0387**	**40.0374**
Normalized	100%	97.56%
Standard Deviation	0.2%	0.1%
Embree - Pathtracer ISPC - Asian Dragon Obj (FPS)	**35.5374**	**35.1232**
Normalized	100%	98.83%
Standard Deviation	0%	0.6%
rav1e - 1 (FPS)	0.449	
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	**1.811**	**1.698**
Normalized	100%	93.76%
Standard Deviation	0.6%	2.2%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**20.689**	**15.789**
Normalized	100%	76.32%
Standard Deviation	0%	0%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**8.225**	**7.504**
Normalized	100%	91.23%
Standard Deviation	2.6%	2.4%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	**127.983**	**82.137**
Normalized	100%	64.18%
Standard Deviation	10.7%	6.4%
x264 - H.2.V.E (FPS)	**250.26**	**221.08**
Normalized	100%	88.34%
Standard Deviation	1.1%	0.3%
Intel Open Image Denoise - Memorial (Images / Sec)	**29.32**	**25.74**
Normalized	100%	87.79%
Standard Deviation	0.2%	2.3%
Stockfish - Total Time (Nodes/s)	**152809742**	**84248194**
Normalized	100%	55.13%
Standard Deviation	3.2%	3.1%
asmFish - 1.H.M.2.D (Nodes/s)	**146079219**	**83359123**
Normalized	100%	57.06%
Standard Deviation	0.6%	1.2%
libavif avifenc - 0 (sec)	**54.055**	**56.651**
Normalized	100%	95.42%
Standard Deviation	0.9%	1%
libavif avifenc - 2 (sec)	**28.920**	**30.094**
Normalized	100%	96.1%
Standard Deviation	0.4%	0.9%
libavif avifenc - 6 (sec)	**11.229**	**11.537**
Normalized	100%	97.33%
Standard Deviation	1.6%	0.7%
libavif avifenc - 10 (sec)	**4.065**	**4.140**
Normalized	100%	98.19%
Standard Deviation	1.6%	0.4%

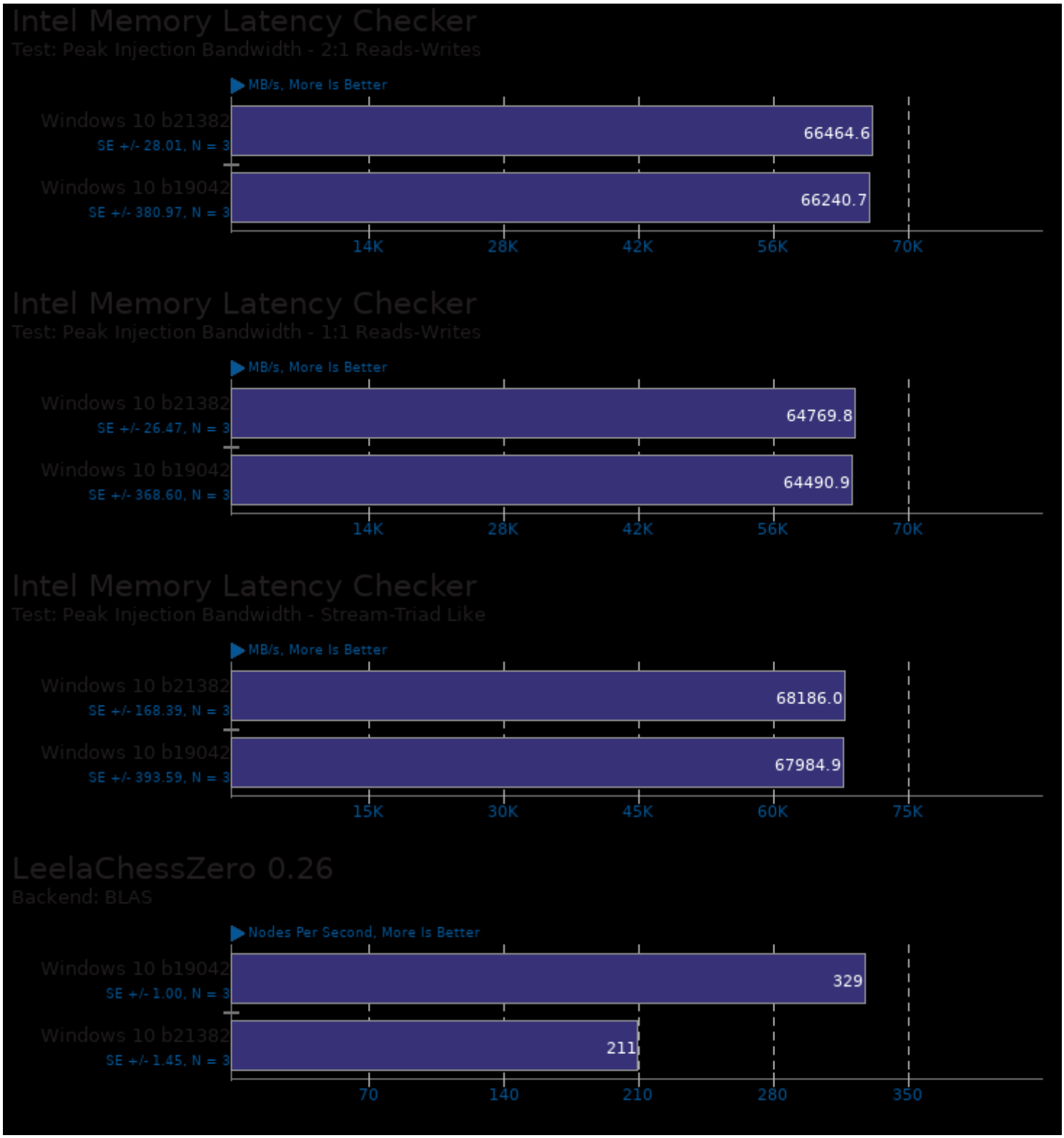
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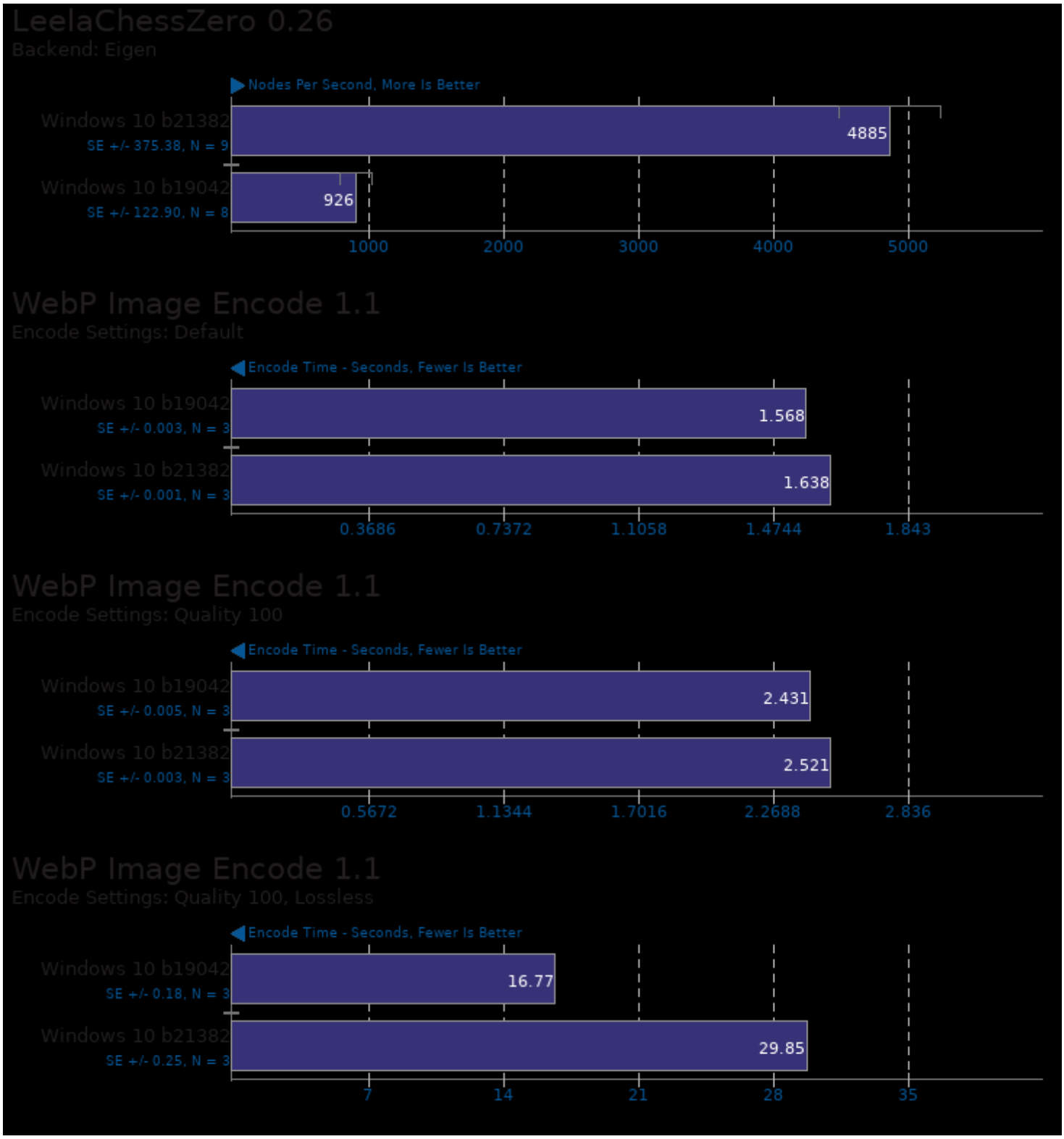
libavif avifenc - 6, Lossless (sec)	**28.627**	**29.473**
Normalized	100%	97.13%
Standard Deviation	0.5%	0.9%
libavif avifenc - 10, Lossless (sec)	**6.651**	**6.776**
Normalized	100%	98.16%
Standard Deviation	1.4%	0.7%
Primesieve - 1.P.N.G (sec)	**6.657**	**6.440**
Normalized	96.74%	100%
Standard Deviation	0.8%	3.1%
FLAC Audio Encoding - WAV To FLAC (sec)	**8.140**	**8.407**
Normalized	100%	96.82%
Standard Deviation	0.4%	0.5%
LAME MP3 Encoding - WAV To MP3 (sec)	**9.073**	**9.351**
Normalized	100%	97.03%
Standard Deviation	0.7%	0.4%
Opus Codec Encoding - WAV To Opus Encode (sec)	**9.903**	**10.193**
Normalized	100%	97.15%
Standard Deviation	0.4%	0.5%
Minion - Graceful (sec)	**48.355**	**49.182**
Normalized	100%	98.32%
Standard Deviation	0.9%	0.4%
Minion - Solitaire (sec)	**48.665**	**50.591**
Normalized	100%	96.19%
Standard Deviation	1.6%	2.2%
Minion - Quasigroup (sec)	**111.094**	**112.997**
Normalized	100%	98.32%
Standard Deviation	0.4%	0.1%
Sudokut - Total Time (sec)	**25.323**	**27.395**
Normalized	100%	92.44%
Standard Deviation	0.7%	0.7%
Cpuminer-Opt - Magi (kH/s)	**470.41**	**565.46**
Normalized	83.19%	100%
Standard Deviation	58.8%	45.2%
Cpuminer-Opt - x25x (kH/s)	**878.93**	**697.66**
Normalized	100%	79.38%
Standard Deviation	51.5%	75%
Cpuminer-Opt - Deepcoin (kH/s)	**3103**	**3575**
Normalized	86.81%	100%
Standard Deviation	39.7%	92.2%
Cpuminer-Opt - Ringcoin (kH/s)	**2098**	**1631**
Normalized	100%	77.76%
Standard Deviation	46.5%	64.9%
Cpuminer-Opt - Blake-2 S (kH/s)	**29208**	**16504**
Normalized	100%	56.51%
Standard Deviation	130.3%	161.6%
Cpuminer-Opt - Garlicoin (kH/s)	**3130**	**2464**
Normalized	100%	78.72%
Standard Deviation	59.2%	64.3%
Cpuminer-Opt - Skeincoin (kH/s)	**3907**	**8310**
Normalized	47.01%	100%
Standard Deviation	45.8%	133.6%
Cpuminer-Opt - Myriad-Groestl (kH/s)	**3832**	**3245**
Normalized	100%	84.7%
Standard Deviation	37.4%	95.1%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	**4286**	**3230**

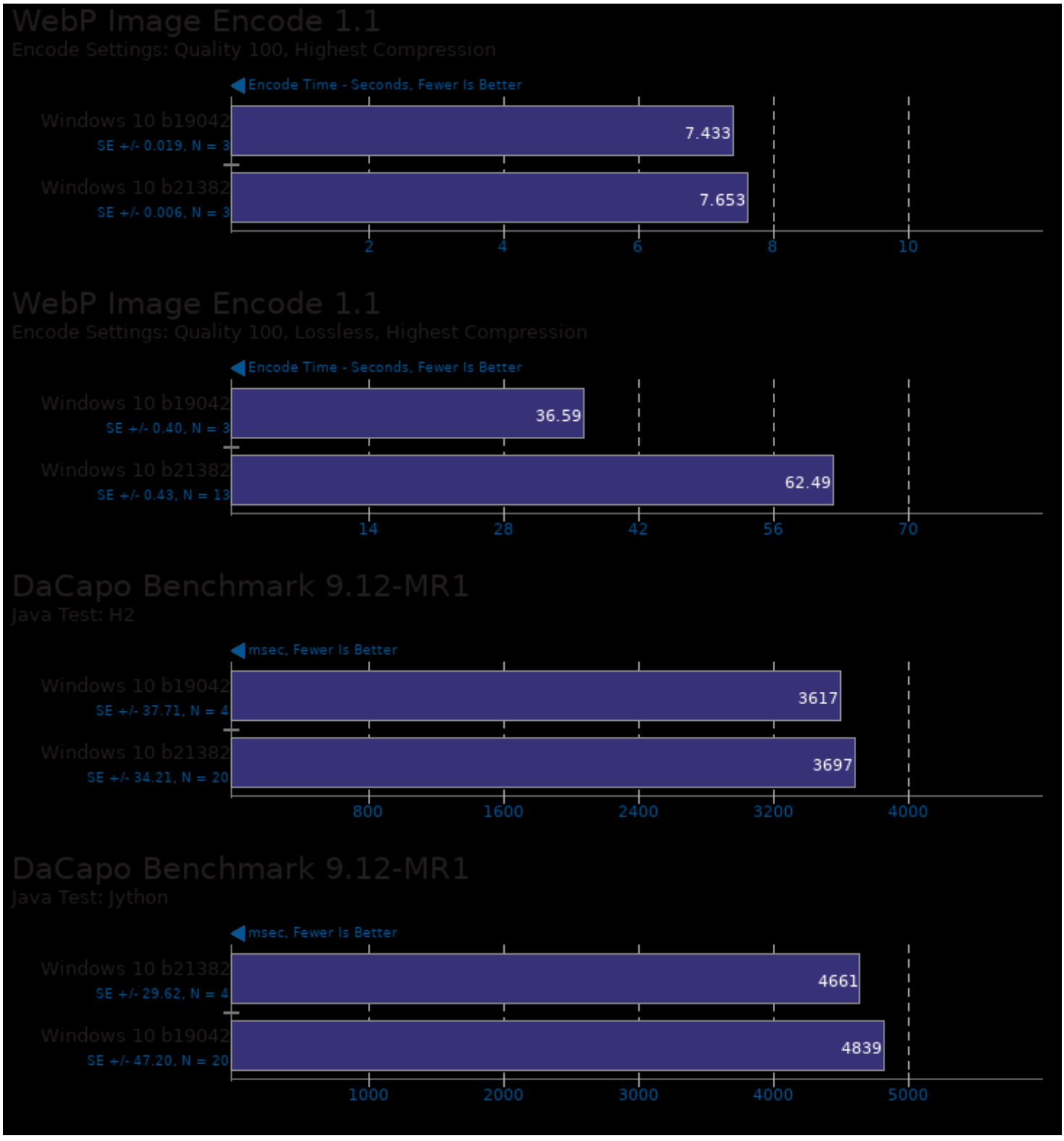
Normalized	100%	75.37%
Standard Deviation	42%	43.2%
Cpuminer-Opt - Q.S.2.P (kH/s)	**4611**	**5432**
Normalized	84.89%	100%
Standard Deviation	31.7%	106%
Cpuminer-Opt - T.S.2.O (kH/s)	**4824**	**5802**
Normalized	83.14%	100%
Standard Deviation	38.5%	138%
Basis Universal - ETC1S (sec)	**25.438**	**26.995**
Normalized	100%	94.23%
Standard Deviation	0.6%	0.4%
Basis Universal - UASTC Level 0 (sec)	**7.211**	**7.295**
Normalized	100%	98.85%
Standard Deviation	0.5%	0.2%
Basis Universal - UASTC Level 2 (sec)	**13.947**	**14.173**
Normalized	100%	98.41%
Standard Deviation	0.7%	0.2%
Basis Universal - UASTC Level 3 (sec)	**22.126**	**22.175**
Normalized	100%	99.78%
Standard Deviation	0.8%	0.9%
IndigoBench - CPU - Bedroom (M samples/s)	**9.832**	**8.933**
Normalized	100%	90.86%
Standard Deviation	0.6%	1.5%
IndigoBench - CPU - Supercar (M samples/s)	**21.114**	**20.028**
Normalized	100%	94.86%
Standard Deviation	1.2%	1.3%
Blender - BMW27 - CPU-Only (sec)	**41.04**	**52.34**
Normalized	100%	78.41%
Standard Deviation	0.4%	2.1%
Blender - Classroom - CPU-Only (sec)	**103.25**	**139.15**
Normalized	100%	74.2%
Standard Deviation	0.8%	0.5%
Blender - Fishy Cat - CPU-Only (sec)	**57.70**	**73.40**
Normalized	100%	78.61%
Standard Deviation	0.5%	2%
Blender - Barbershop - CPU-Only (sec)	**153.77**	**214.42**
Normalized	100%	71.71%
Standard Deviation	0.4%	1.2%
Blender - Pabellon Barcelona - CPU-Only (sec)	**118.47**	**172.16**
Normalized	100%	68.81%
Standard Deviation	0.7%	2.4%
PyBench - T.F.A.T.T (Milliseconds)	**1460**	**1475**
Normalized	100%	98.98%
Standard Deviation	0.7%	1%
Appleseed - Emily (sec)	**158.224**	**245.144**
Normalized	100%	64.54%
Appleseed - Disney Material (sec)	**73.302**	**79.839**
Normalized	100%	91.81%
Appleseed - Material Tester (sec)	**76.549**	**235.867**
Normalized	100%	32.45%
Chaos Group V-RAY - CPU (vsamples)	**48980**	**29944**
Normalized	100%	61.14%
Standard Deviation	0.8%	5.8%

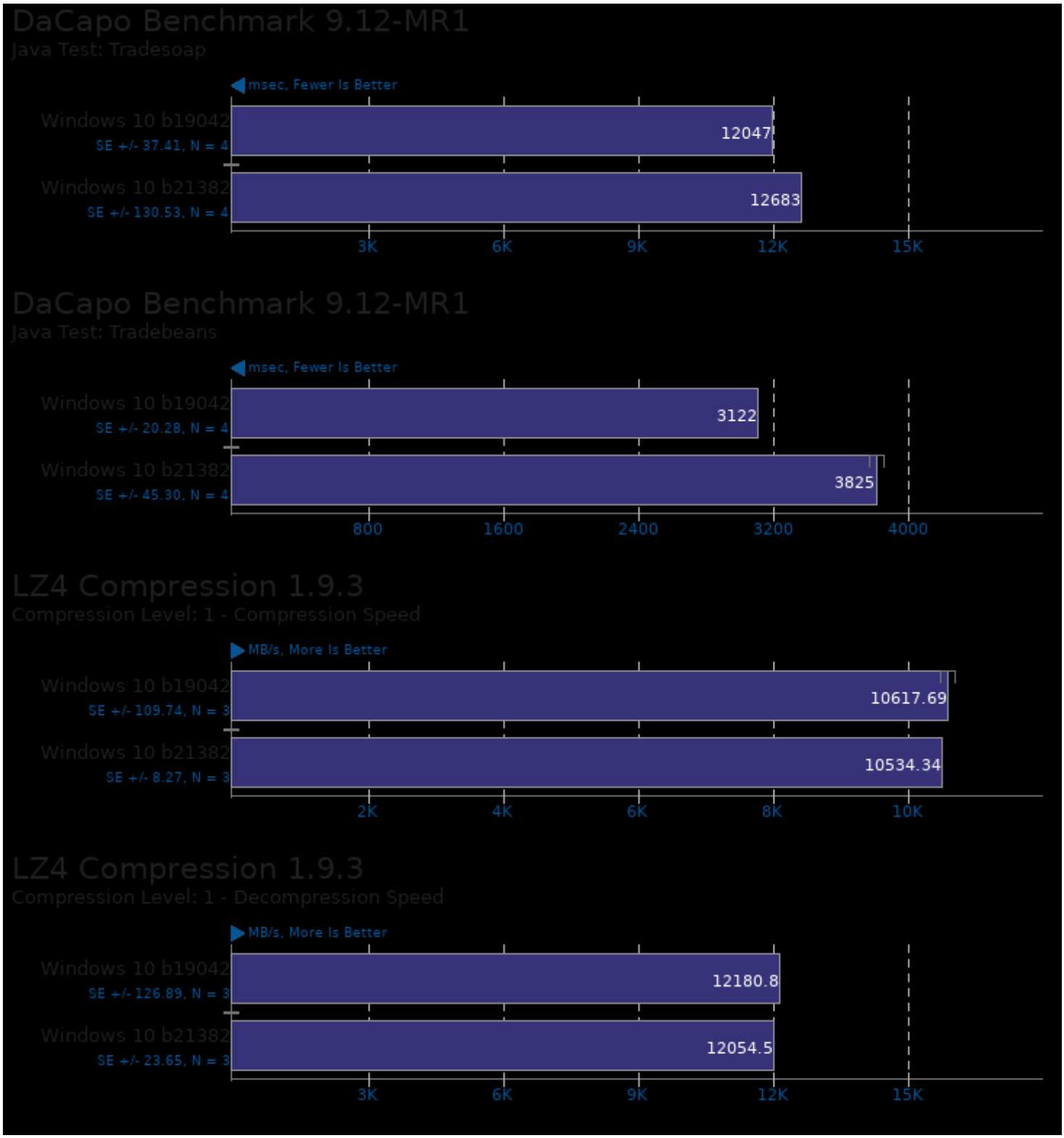

Intel Memory Latency Checker
Test: Idle Latency
ns, Fewer Is Better
Windows 10 b21382
SE +/- 0.00, N = 3
105.5
Windows 10 b19042
SE +/- 1.10, N = 3
107.1
20
40
60
80
100
Intel Memory Latency Checker
Test: Max Bandwidth - All Reads
MB/s, More Is Better
Windows 10 b21382
SE +/- 405.06, N = 3
75524.13
Windows 10 b19042
SE +/- 5.51, N = 3
75284.26
16K
32K
48K
64K
80K
Intel Memory Latency Checker
Test: Max Bandwidth - 3:1 Reads-Writes
MB/s, More Is Better
Windows 10 b21382
SE +/- 50.48, N = 3
66924.71
Windows 10 b19042
SE +/- 2.35, N = 3
66796.39
14K
28K
42K
56K
70K
Intel Memory Latency Checker
Test: Max Bandwidth - 2:1 Reads-Writes
MB/s, More Is Better
Windows 10 b21382
SE +/- 38.65, N = 3
66264.92
Windows 10 b19042
SE +/- 11.45, N = 3
65852.32
14K
28K
42K
56K
70K

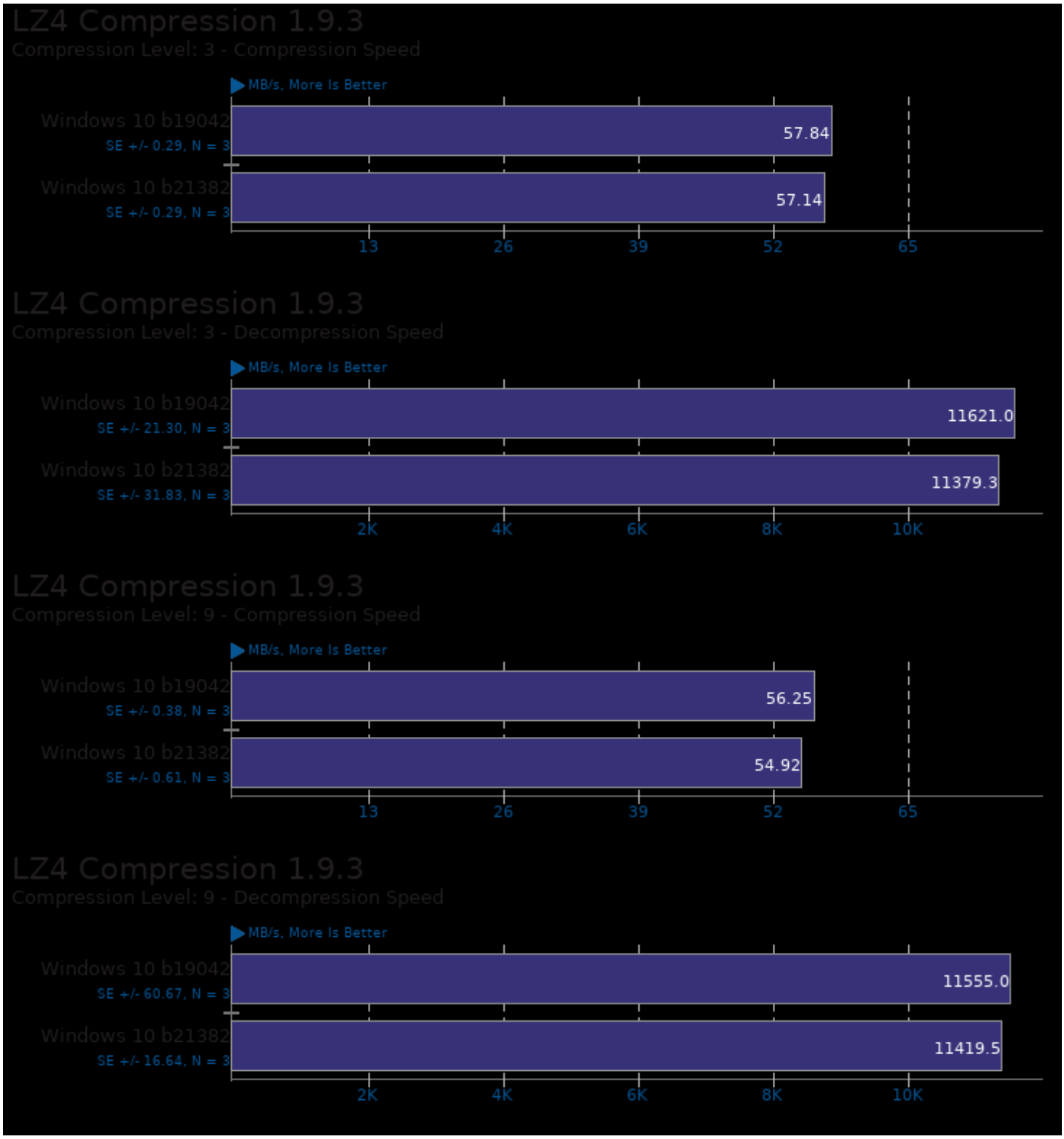

Intel Memory Latency Checker
Test: Max Bandwidth - 1:1 Reads-Writes
MB/s, More Is Better
Windows 10 b21382
SE +/- 113.62, N = 3
64469.63
Windows 10 b19042
SE +/- 3.65, N = 3
64127.53
14K
28K
42K
56K
70K
Intel Memory Latency Checker
Test: Max Bandwidth - Stream-Triad Like
MB/s, More Is Better
Windows 10 b21382
SE +/- 45.70, N = 3
67907.88
Windows 10 b19042
SE +/- 2.99, N = 3
67599.88
15K
30K
45K
60K
75K
Intel Memory Latency Checker
Test: Peak Injection Bandwidth - All Reads
MB/s, More Is Better
Windows 10 b21382
SE +/- 22.14, N = 3
75816.5
Windows 10 b19042
SE +/- 441.26, N = 3
75619.4
16K
32K
48K
64K
80K
Intel Memory Latency Checker
Test: Peak Injection Bandwidth - 3:1 Reads-Writes
MB/s, More Is Better
Windows 10 b19042
SE +/- 382.37, N = 3
67060.2
Windows 10 b21382
SE +/- 45.46, N = 3
67057.2
14K
28K
42K
56K
70K

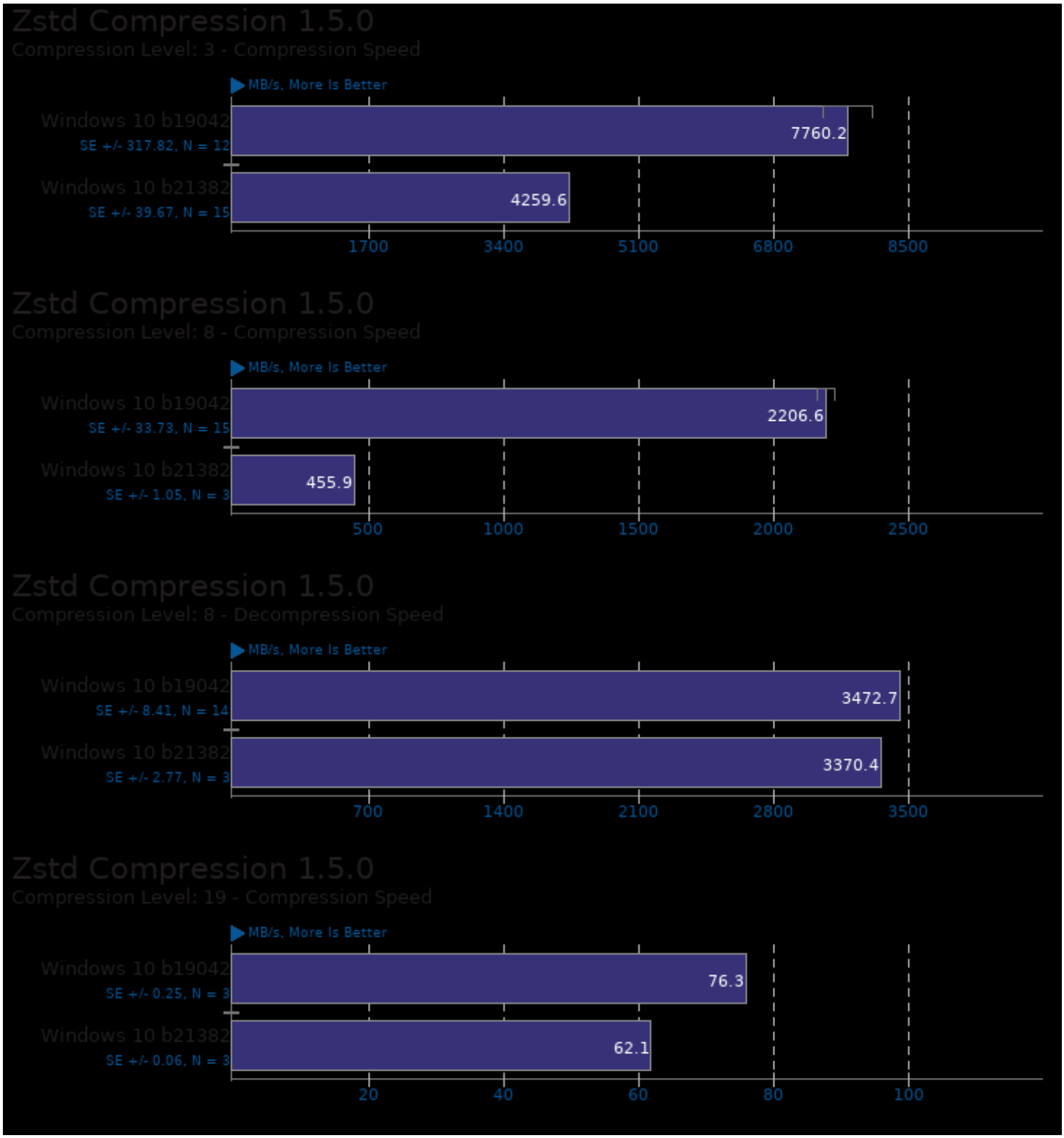

Intel Memory Latency Checker
Test: Peak Injection Bandwidth - 2:1 Reads-Writes
MB/s, More Is Better
Windows 10 b21382
SE +/- 28.01, N = 3
66464.6
Windows 10 b19042
SE +/- 380.97, N = 3
66240.7
14K
28K
42K
56K
70K
Intel Memory Latency Checker
Test: Peak Injection Bandwidth - 1:1 Reads-Writes
MB/s, More Is Better
Windows 10 b21382
SE +/- 26.47, N = 3
64769.8
Windows 10 b19042
SE +/- 368.60, N = 3
64490.9
14K
28K
42K
56K
70K
Intel Memory Latency Checker
Test: Peak Injection Bandwidth - Stream-Triad Like
MB/s, More Is Better
Windows 10 b21382
SE +/- 168.39, N = 3
68186.0
Windows 10 b19042
SE +/- 393.59, N = 3
67984.9
15K
30K
45K
60K
75K
LeelaChessZero 0.26
Backend: BLAS
Nodes Per Second, More Is Better
Windows 10 b19042
SE +/- 1.00, N = 3
329
Windows 10 b21382
SE +/- 1.45, N = 3
211
70
140
210
280
350

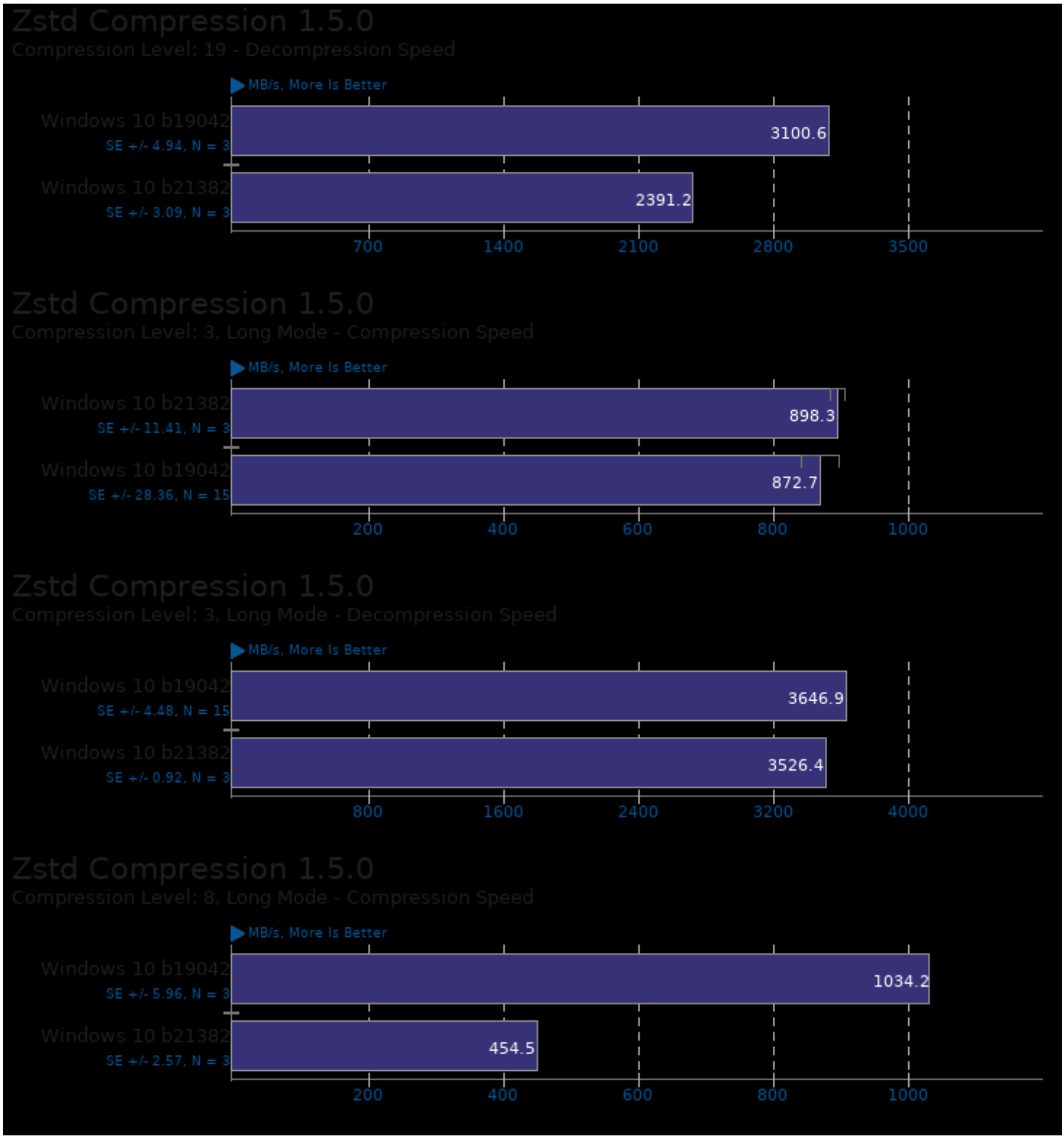

LeelaChessZero 0.26
Backend: Eigen
Nodes Per Second, More Is Better
Windows 10 b21382
SE +/- 375.38, N = 9
4885
Windows 10 b19042
SE +/- 122.90, N = 8
926
1000
2000
3000
4000
5000
WebP Image Encode 1.1
Encode Settings: Default
Encode Time - Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.003, N = 3
1.568
Windows 10 b21382
SE +/- 0.001, N = 3
1.638
0.3686
0.7372
1.1058
1.4744
1.843
WebP Image Encode 1.1
Encode Settings: Quality 100
Encode Time - Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.005, N = 3
2.431
Windows 10 b21382
SE +/- 0.003, N = 3
2.521
0.5672
1.1344
1.7016
2.2688
2.836
WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless
Encode Time - Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.18, N = 3
16.77
Windows 10 b21382
SE +/- 0.25, N = 3
29.85
7
14
21
28
35

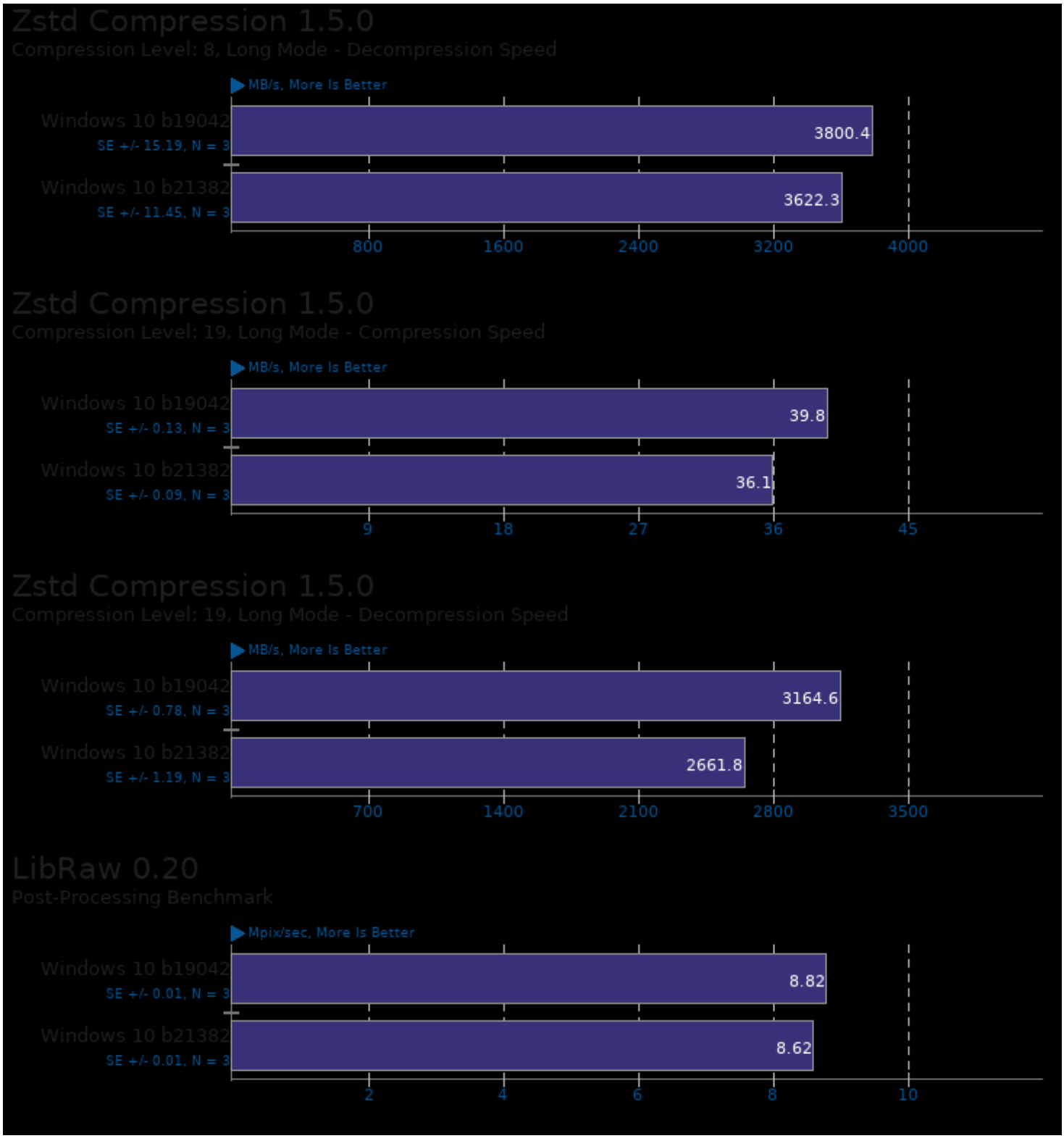

WebP Image Encode 1.1
Encode Settings: Quality 100, Highest Compression
Encode Time - Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.019, N = 3
7.433
Windows 10 b21382
SE +/- 0.006, N = 3
7.653
2
4
6
8
10
WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless, Highest Compression
Encode Time - Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.40, N = 3
36.59
Windows 10 b21382
SE +/- 0.43, N = 13
62.49
14
28
42
56
70
DaCapo Benchmark 9.12-MR1
Java Test: H2
msec, Fewer Is Better
Windows 10 b19042
SE +/- 37.71, N = 4
3617
Windows 10 b21382
SE +/- 34.21, N = 20
3697
800
1600
2400
3200
4000
DaCapo Benchmark 9.12-MR1
Java Test: Jython
msec, Fewer Is Better
Windows 10 b21382
SE +/- 29.62, N = 4
4661
Windows 10 b19042
SE +/- 47.20, N = 20
4839
1000
2000
3000
4000
5000

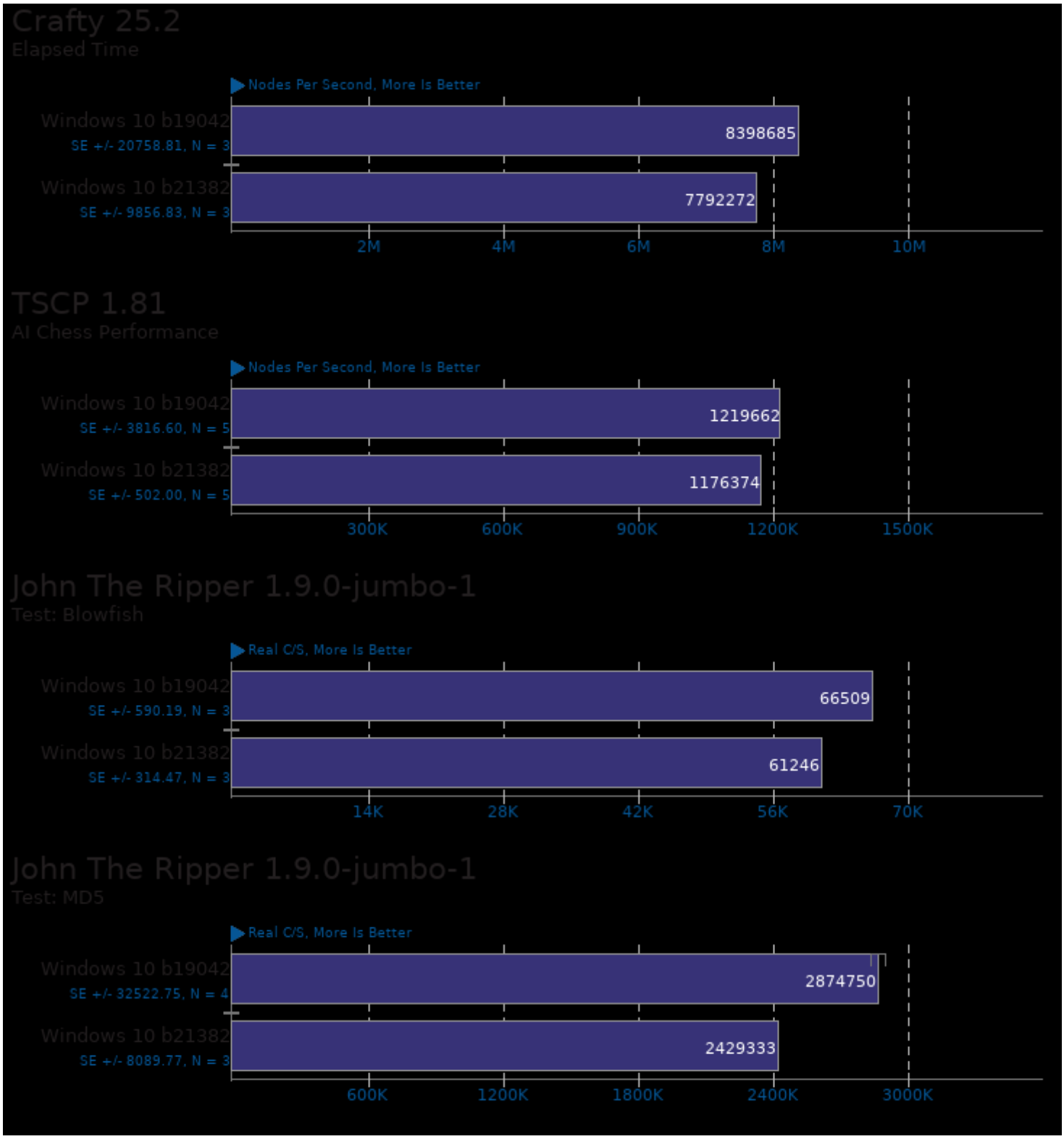

DaCapo Benchmark 9.12-MR1
Java Test: Tradesoap
msec, Fewer Is Better
Windows 10 b19042
SE +/- 37.41, N = 4
12047
Windows 10 b21382
SE +/- 130.53, N = 4
12683
3K
6K
9K
12K
15K
DaCapo Benchmark 9.12-MR1
Java Test: Tradebeans
msec, Fewer Is Better
Windows 10 b19042
SE +/- 20.28, N = 4
3122
Windows 10 b21382
SE +/- 45.30, N = 4
3825
800
1600
2400
3200
4000
LZ4 Compression 1.9.3
Compression Level: 1 - Compression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 109.74, N = 3
10617.69
Windows 10 b21382
SE +/- 8.27, N = 3
10534.34
2K
4K
6K
8K
10K
LZ4 Compression 1.9.3
Compression Level: 1 - Decompression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 126.89, N = 3
12180.8
Windows 10 b21382
SE +/- 23.65, N = 3
12054.5
3K
6K
9K
12K
15K

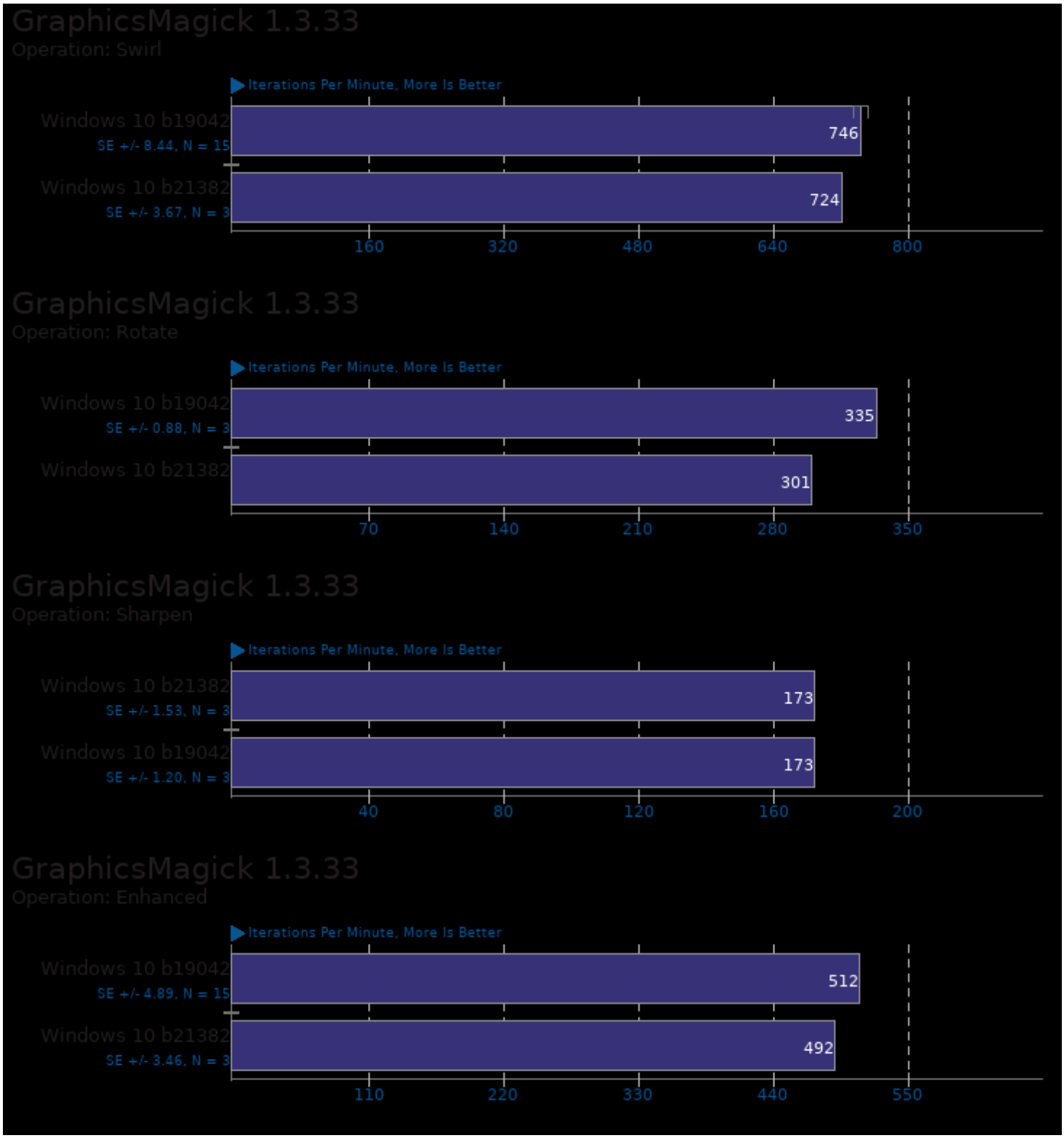

LZ4 Compression 1.9.3
Compression Level: 3 - Compression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 0.29, N = 3
57.84
Windows 10 b21382
SE +/- 0.29, N = 3
57.14
13
26
39
52
65
LZ4 Compression 1.9.3
Compression Level: 3 - Decompression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 21.30, N = 3
11621.0
Windows 10 b21382
SE +/- 31.83, N = 3
11379.3
2K
4K
6K
8K
10K
LZ4 Compression 1.9.3
Compression Level: 9 - Compression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 0.38, N = 3
56.25
Windows 10 b21382
SE +/- 0.61, N = 3
54.92
13
26
39
52
65
LZ4 Compression 1.9.3
Compression Level: 9 - Decompression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 60.67, N = 3
11555.0
Windows 10 b21382
SE +/- 16.64, N = 3
11419.5
2K
4K
6K
8K
10K

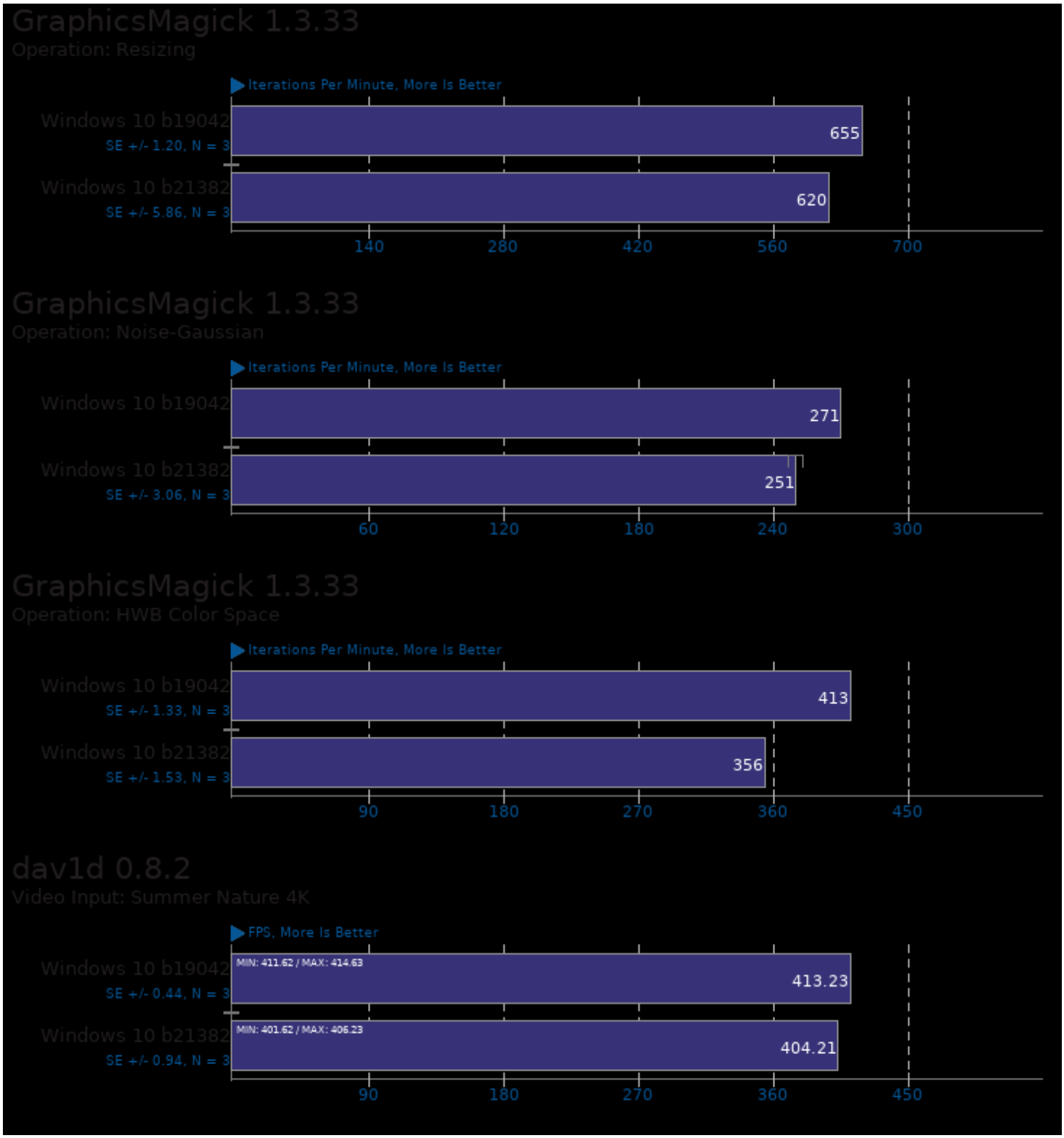

Zstd Compression 1.5.0
Compression Level: 3 - Compression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 317.82, N = 12
7760.2
Windows 10 b21382
SE +/- 39.67, N = 15
4259.6
1700
3400
5100
6800
8500
Zstd Compression 1.5.0
Compression Level: 8 - Compression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 33.73, N = 15
2206.6
Windows 10 b21382
SE +/- 1.05, N = 3
455.9
500
1000
1500
2000
2500
Zstd Compression 1.5.0
Compression Level: 8 - Decompression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 8.41, N = 14
3472.7
Windows 10 b21382
SE +/- 2.77, N = 3
3370.4
700
1400
2100
2800
3500
Zstd Compression 1.5.0
Compression Level: 19 - Compression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 0.25, N = 3
76.3
Windows 10 b21382
SE +/- 0.06, N = 3
62.1
20
40
60
80
100

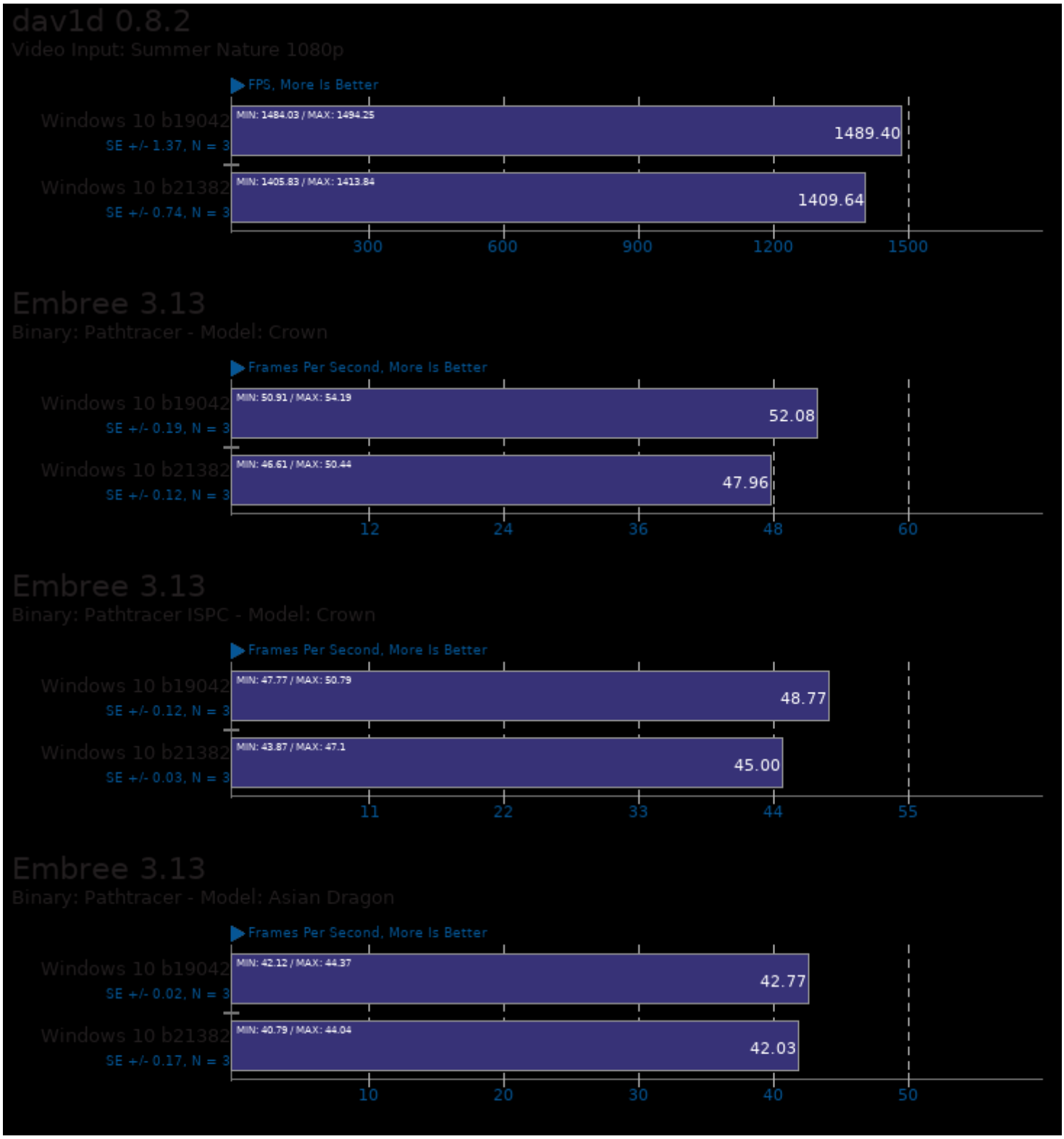

Zstd Compression 1.5.0
Compression Level: 19 - Decompression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 4.94, N = 3
3100.6
Windows 10 b21382
SE +/- 3.09, N = 3
2391.2
700
1400
2100
2800
3500
Zstd Compression 1.5.0
Compression Level: 3, Long Mode - Compression Speed
MB/s, More Is Better
Windows 10 b21382
SE +/- 11.41, N = 3
898.3
Windows 10 b19042
SE +/- 28.36, N = 15
872.7
200
400
600
800
1000
Zstd Compression 1.5.0
Compression Level: 3, Long Mode - Decompression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 4.48, N = 15
3646.9
Windows 10 b21382
SE +/- 0.92, N = 3
3526.4
800
1600
2400
3200
4000
Zstd Compression 1.5.0
Compression Level: 8, Long Mode - Compression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 5.96, N = 3
1034.2
Windows 10 b21382
SE +/- 2.57, N = 3
454.5
200
400
600
800
1000

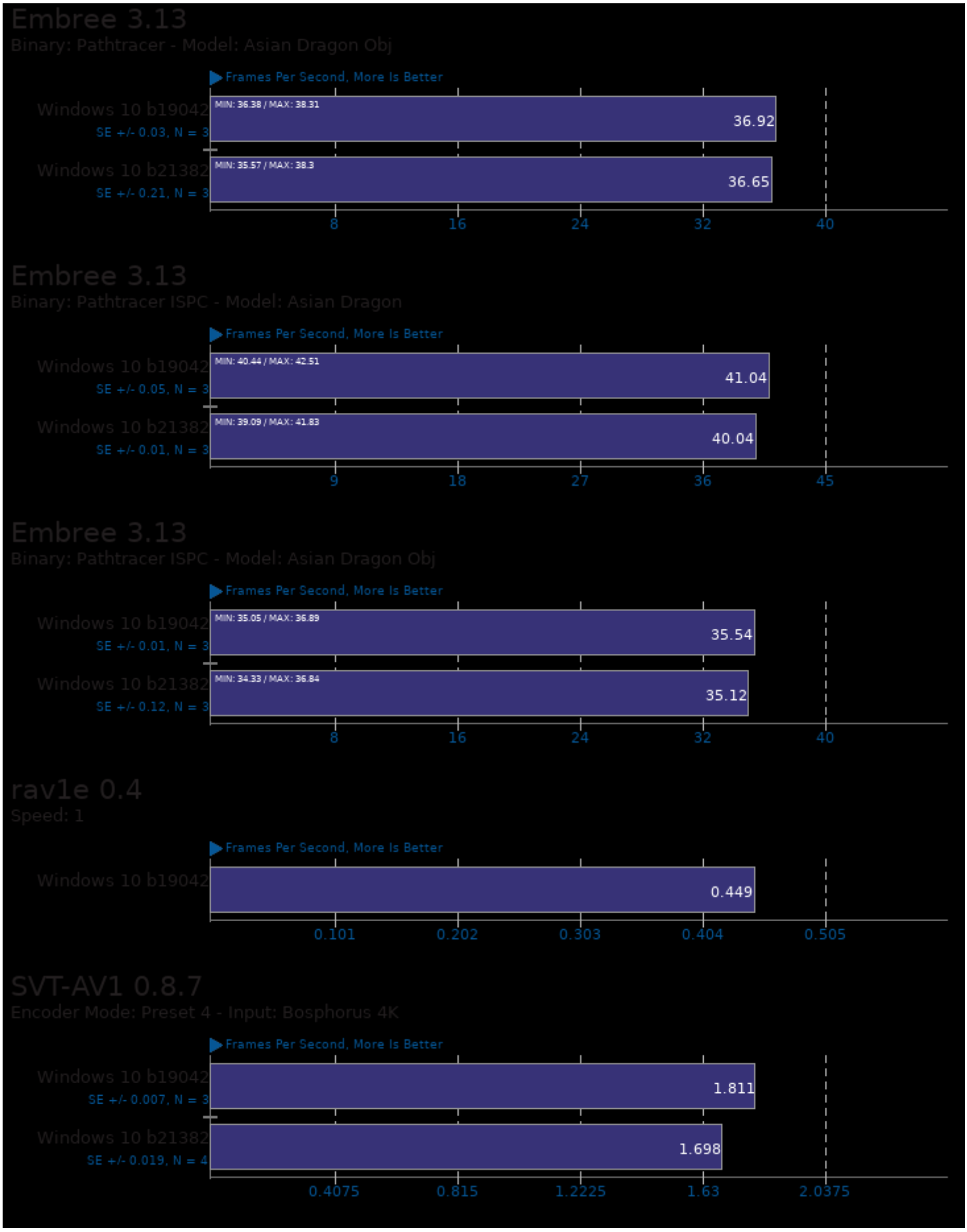

Zstd Compression 1.5.0
Compression Level: 8, Long Mode - Decompression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 15.19, N = 3
3800.4
Windows 10 b21382
SE +/- 11.45, N = 3
3622.3
800
1600
2400
3200
4000
Zstd Compression 1.5.0
Compression Level: 19, Long Mode - Compression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 0.13, N = 3
39.8
Windows 10 b21382
SE +/- 0.09, N = 3
36.1
9
18
27
36
45
Zstd Compression 1.5.0
Compression Level: 19, Long Mode - Decompression Speed
MB/s, More Is Better
Windows 10 b19042
SE +/- 0.78, N = 3
3164.6
Windows 10 b21382
SE +/- 1.19, N = 3
2661.8
700
1400
2100
2800
3500
LibRaw 0.20
Post-Processing Benchmark
Mpix/sec, More Is Better
Windows 10 b19042
SE +/- 0.01, N = 3
8.82
Windows 10 b21382
SE +/- 0.01, N = 3
8.62
2
4
6
8
10


Crafty 25.2
Elapsed Time
Nodes Per Second, More Is Better
Windows 10 b19042
SE +/- 20758.81, N = 3
8398685
Windows 10 b21382
SE +/- 9856.83, N = 3
7792272
2M
4M
6M
8M
10M
TSCP 1.81
AI Chess Performance
Nodes Per Second, More Is Better
Windows 10 b19042
SE +/- 3816.60, N = 5
1219662
Windows 10 b21382
SE +/- 502.00, N = 5
1176374
300K
600K
900K
1200K
1500K
John The Ripper 1.9.0-jumbo-1
Test: Blowfish
Real C/S, More Is Better
Windows 10 b19042
SE +/- 590.19, N = 3
66509
Windows 10 b21382
SE +/- 314.47, N = 3
61246
14K
28K
42K
56K
70K
John The Ripper 1.9.0-jumbo-1
Test: MD5
Real C/S, More Is Better
Windows 10 b19042
SE +/- 32522.75, N = 4
2874750
Windows 10 b21382
SE +/- 8089.77, N = 3
2429333
600K
1200K
1800K
2400K
3000K

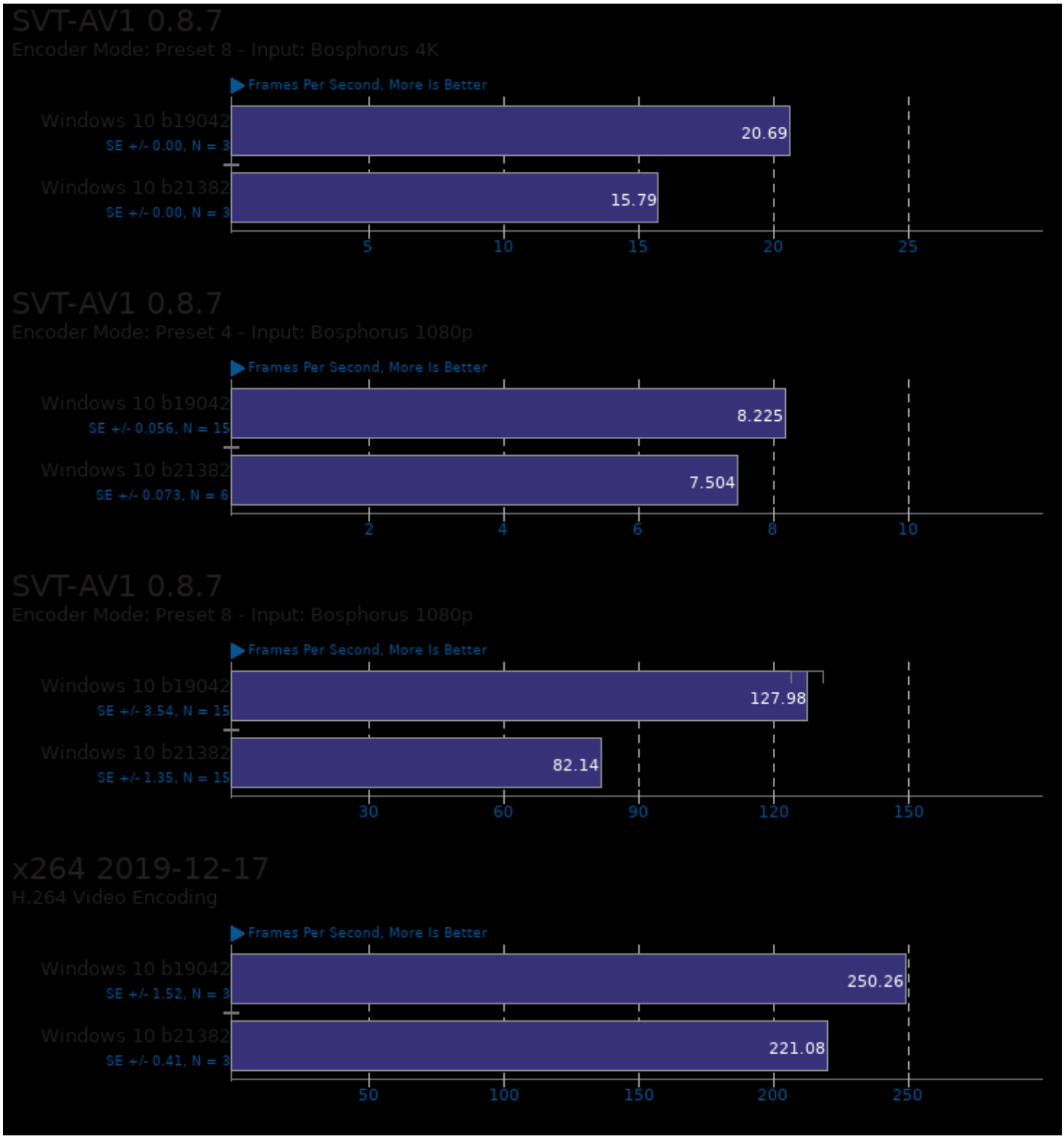

GraphicsMagick 1.3.33
Operation: Swirl
Iterations Per Minute, More Is Better
Windows 10 b19042
SE +/- 8.44, N = 15
746
Windows 10 b21382
SE +/- 3.67, N = 3
724
160
320
480
640
800
GraphicsMagick 1.3.33
Operation: Rotate
Iterations Per Minute, More Is Better
Windows 10 b19042
SE +/- 0.88, N = 3
335
Windows 10 b21382
301
70
140
210
280
350
GraphicsMagick 1.3.33
Operation: Sharpen
Iterations Per Minute, More Is Better
Windows 10 b21382
SE +/- 1.53, N = 3
173
Windows 10 b19042
SE +/- 1.20, N = 3
173
40
80
120
160
200
GraphicsMagick 1.3.33
Operation: Enhanced
Iterations Per Minute, More Is Better
Windows 10 b19042
SE +/- 4.89, N = 15
512
Windows 10 b21382
SE +/- 3.46, N = 3
492
110
220
330
440
550

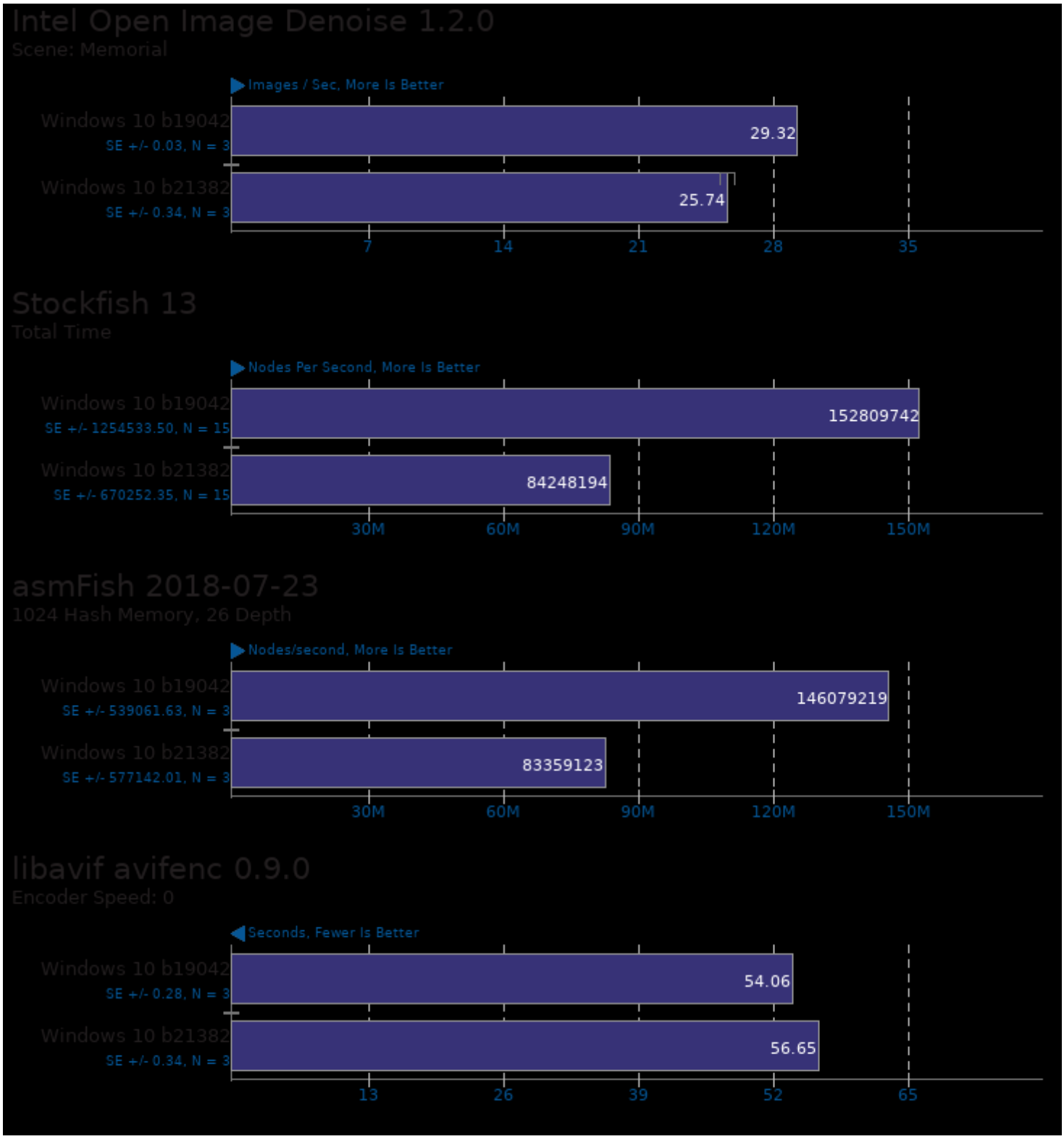

GraphicsMagick 1.3.33
Operation: Resizing
Iterations Per Minute, More Is Better
Windows 10 b19042
SE +/- 1.20, N = 3
655
Windows 10 b21382
SE +/- 5.86, N = 3
620
140
280
420
560
700
GraphicsMagick 1.3.33
Operation: Noise-Gaussian
Iterations Per Minute, More Is Better
Windows 10 b19042
271
Windows 10 b21382
SE +/- 3.06, N = 3
251
60
120
180
240
300
GraphicsMagick 1.3.33
Operation: HWB Color Space
Iterations Per Minute, More Is Better
Windows 10 b19042
SE +/- 1.33, N = 3
413
Windows 10 b21382
SE +/- 1.53, N = 3
356
90
180
270
360
450
dav1d 0.8.2
Video Input: Summer Nature 4K
FPS, More Is Better
Windows 10 b19042
SE +/- 0.44, N = 3
MIN: 411.62 / MAX: 414.63
413.23
Windows 10 b21382
SE +/- 0.94, N = 3
MIN: 401.62 / MAX: 406.23
404.21
90
180
270
360
450

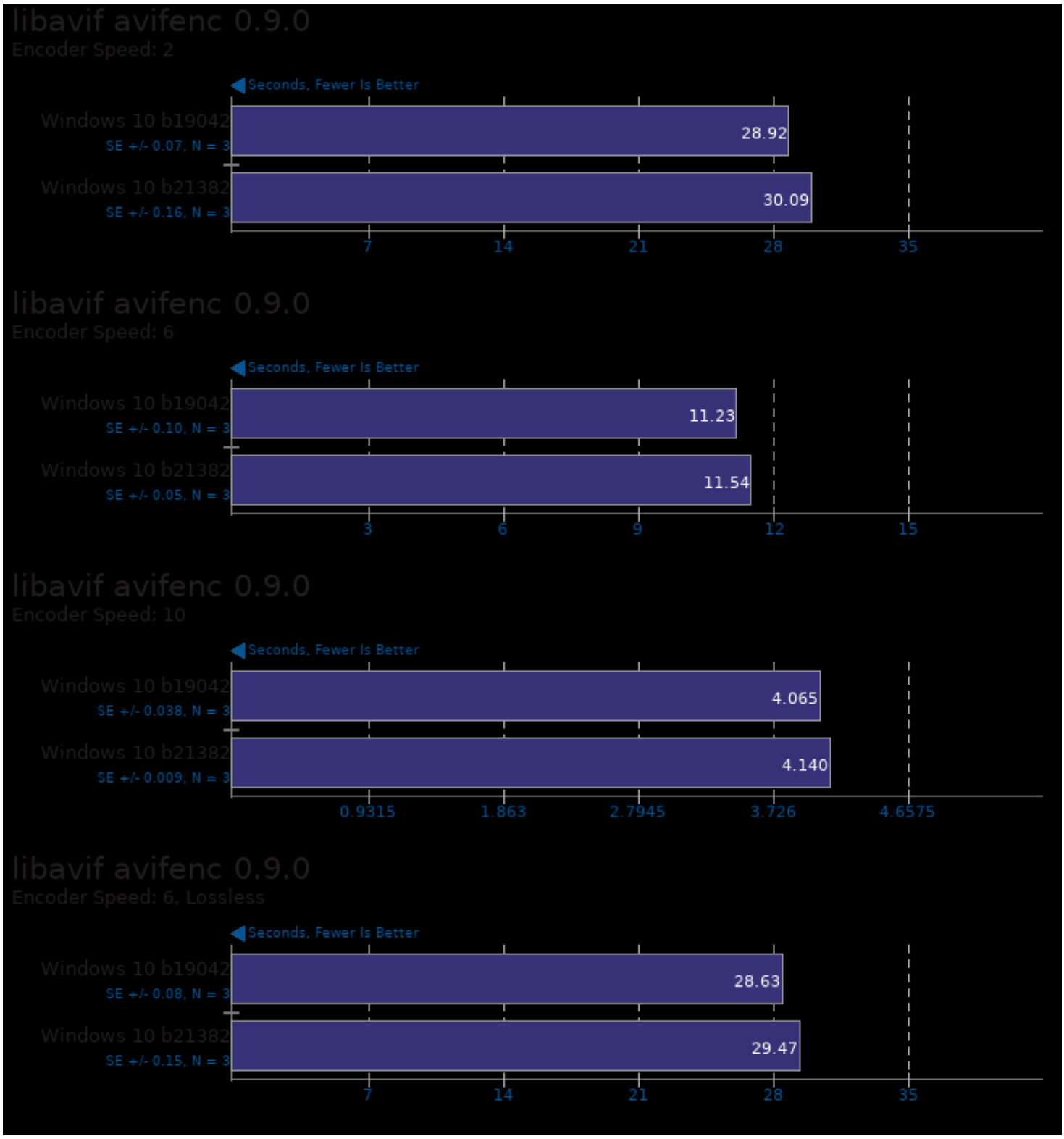

dav1d 0.8.2
Video Input: Summer Nature 1080p
FPS, More Is Better
Windows 10 b19042
SE +/- 1.37, N = 3
MIN: 1484.03 / MAX: 1494.25
1489.40
Windows 10 b21382
SE +/- 0.74, N = 3
MIN: 1405.83 / MAX: 1413.84
1409.64
300
600
900
1200
1500
Embree 3.13
Binary: Pathtracer - Model: Crown
Frames Per Second, More Is Better
Windows 10 b19042
SE +/- 0.19, N = 3
MIN: 50.91 / MAX: 54.19
52.08
Windows 10 b21382
SE +/- 0.12, N = 3
MIN: 46.61 / MAX: 50.44
47.96
12
24
36
48
60
Embree 3.13
Binary: Pathtracer ISPC - Model: Crown
Frames Per Second, More Is Better
Windows 10 b19042
SE +/- 0.12, N = 3
MIN: 47.77 / MAX: 50.79
48.77
Windows 10 b21382
SE +/- 0.03, N = 3
MIN: 43.87 / MAX: 47.1
45.00
11
22
33
44
55
Embree 3.13
Binary: Pathtracer - Model: Asian Dragon
Frames Per Second, More Is Better
Windows 10 b19042
SE +/- 0.02, N = 3
MIN: 42.12 / MAX: 44.37
42.77
Windows 10 b21382
SE +/- 0.17, N = 3
MIN: 40.79 / MAX: 44.04
42.03
10
20
30
40
50

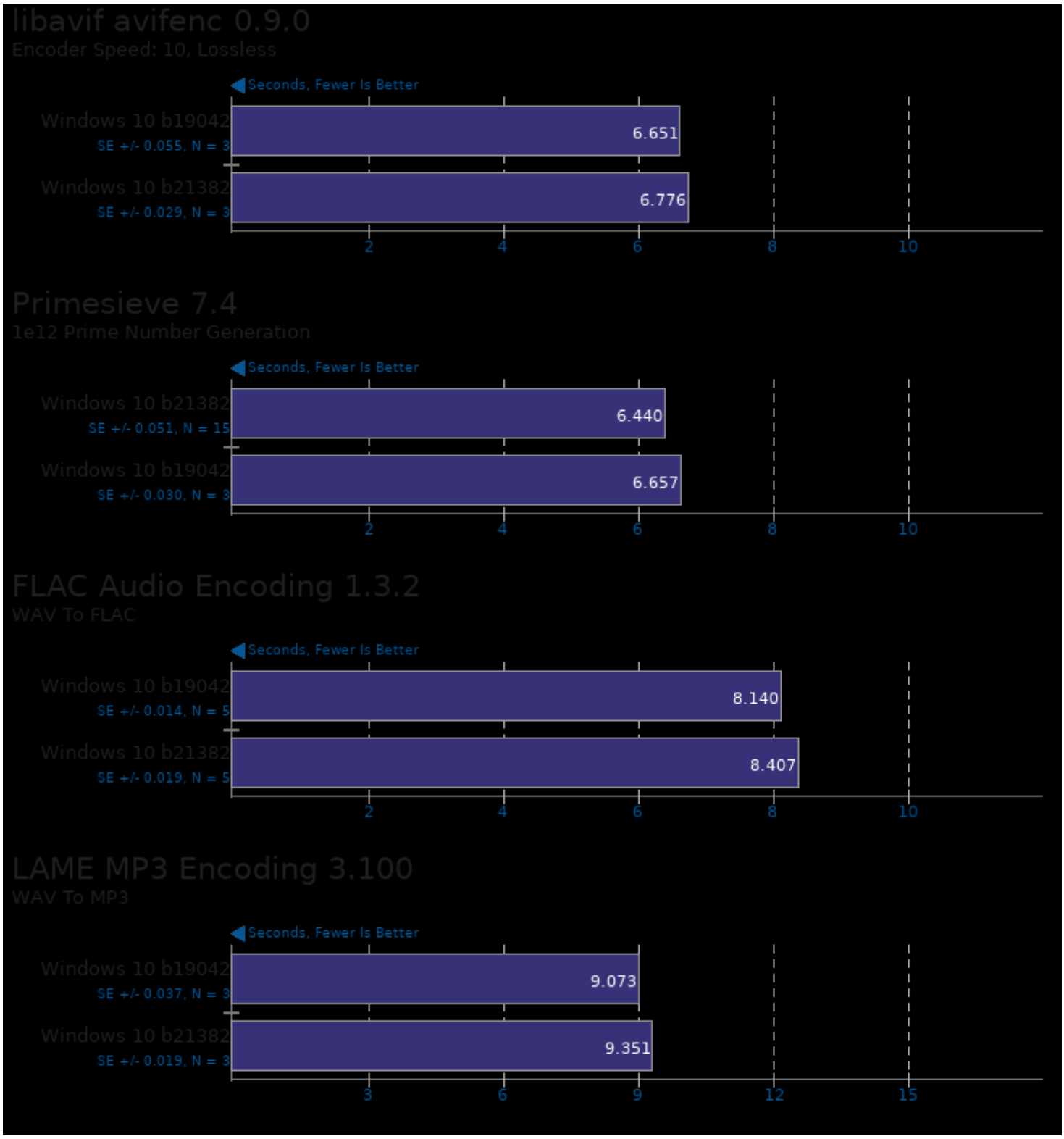

Embree 3.13
Binary: Pathtracer - Model: Asian Dragon Obj
Frames Per Second, More Is Better
Windows 10 b19042
SE +/- 0.03, N = 3
MIN: 36.38 / MAX: 38.31
36.92
Windows 10 b21382
SE +/- 0.21, N = 3
MIN: 35.57 / MAX: 38.3
36.65
8
16
24
32
40
Embree 3.13
Binary: Pathtracer ISPC - Model: Asian Dragon
Frames Per Second, More Is Better
Windows 10 b19042
SE +/- 0.05, N = 3
MIN: 40.44 / MAX: 42.51
41.04
Windows 10 b21382
SE +/- 0.01, N = 3
MIN: 39.09 / MAX: 41.83
40.04
9
18
27
36
45
Embree 3.13
Binary: Pathtracer ISPC - Model: Asian Dragon Obj
Frames Per Second, More Is Better
Windows 10 b19042
SE +/- 0.01, N = 3
MIN: 35.05 / MAX: 36.89
35.54
Windows 10 b21382
SE +/- 0.12, N = 3
MIN: 34.33 / MAX: 36.84
35.12
8
16
24
32
40
rav1e 0.4
Speed: 1
Frames Per Second, More Is Better
Windows 10 b19042
0.449
0.101
0.202
0.303
0.404
0.505
SVT-AV1 0.8.7
Encoder Mode: Preset 4 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Windows 10 b19042
SE +/- 0.007, N = 3
1.811
Windows 10 b21382
SE +/- 0.019, N = 4
1.698
0.4075
0.815
1.2225
1.63
2.0375

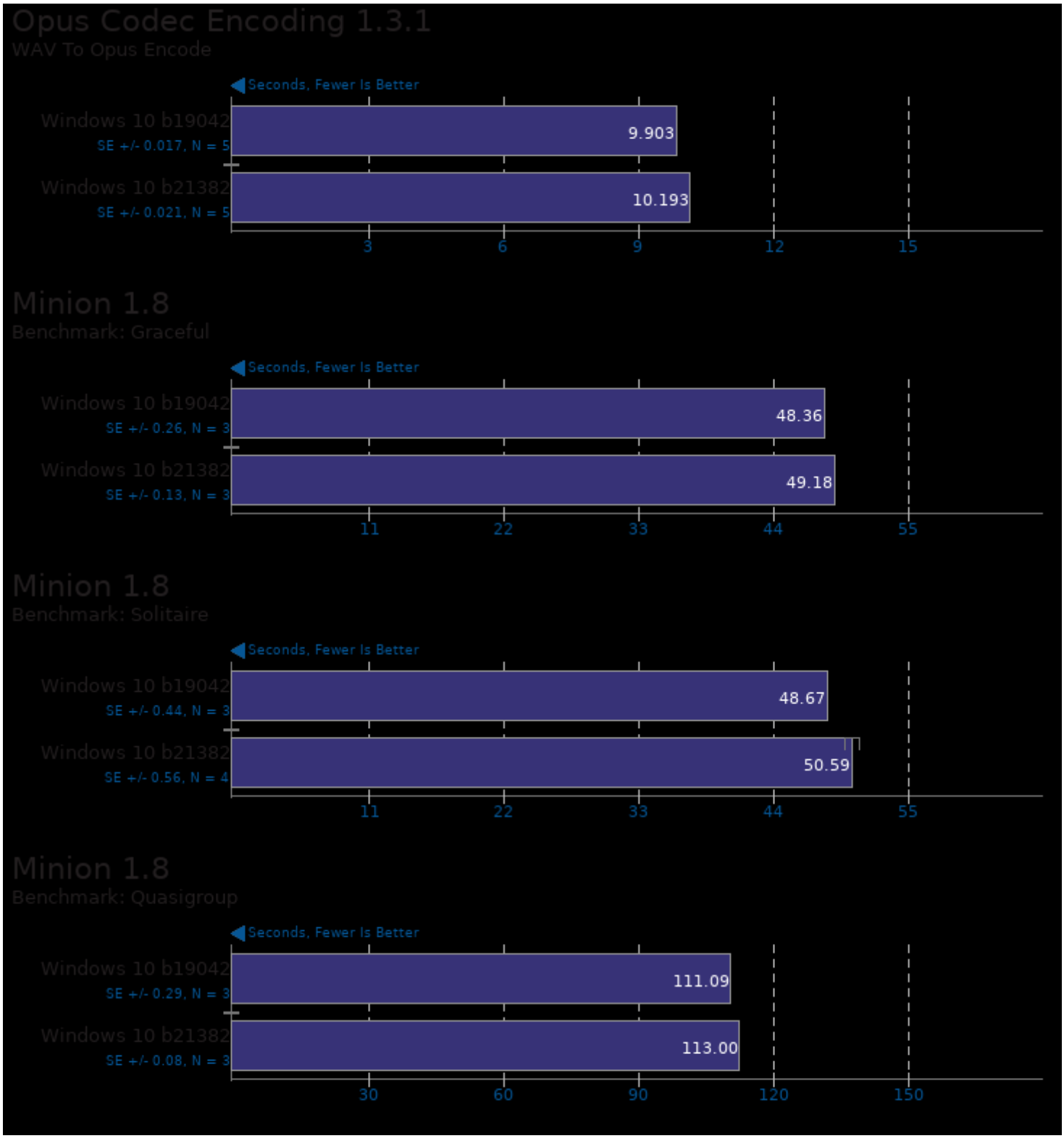
Windows 10 Threadripper 3990X

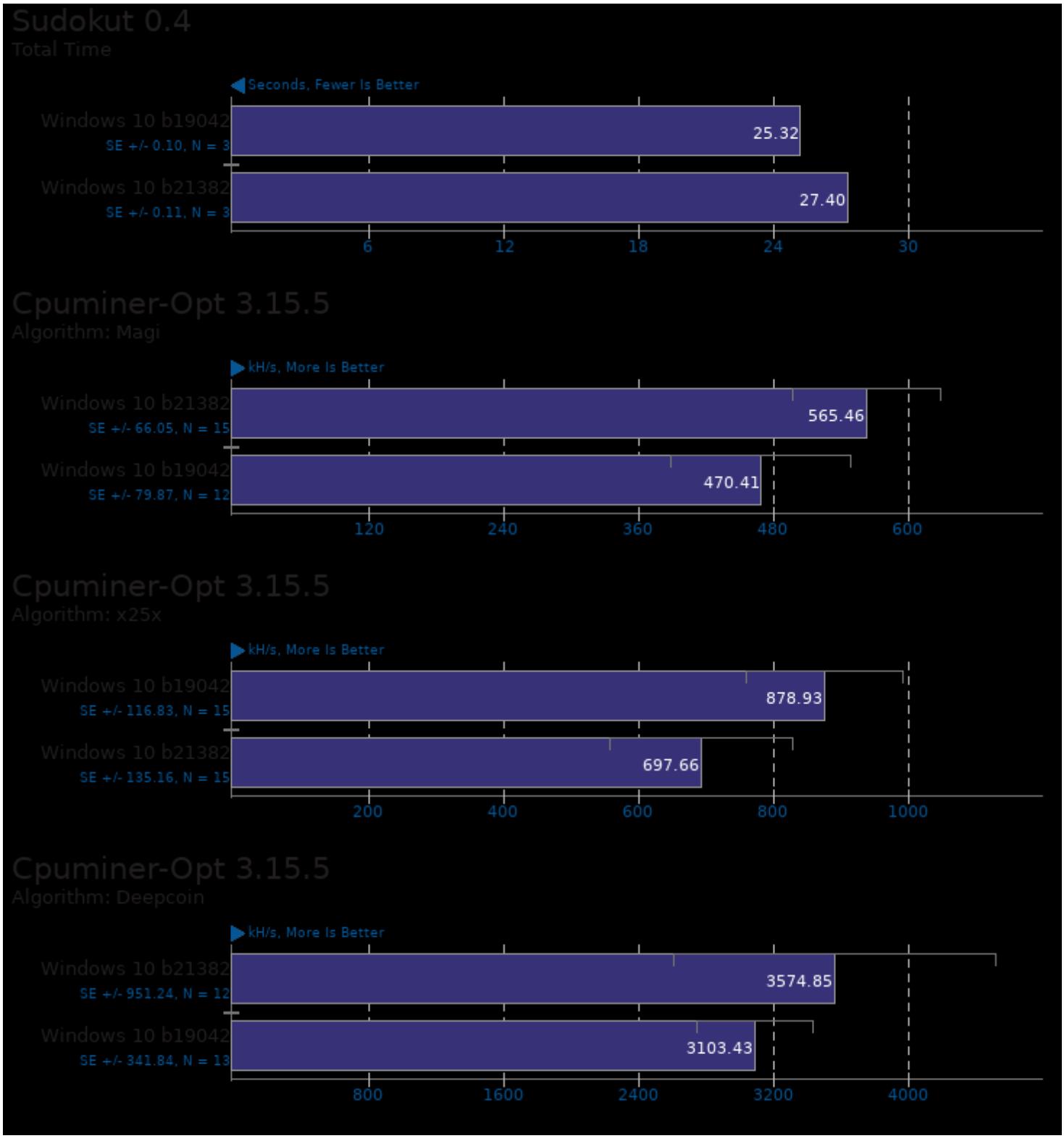


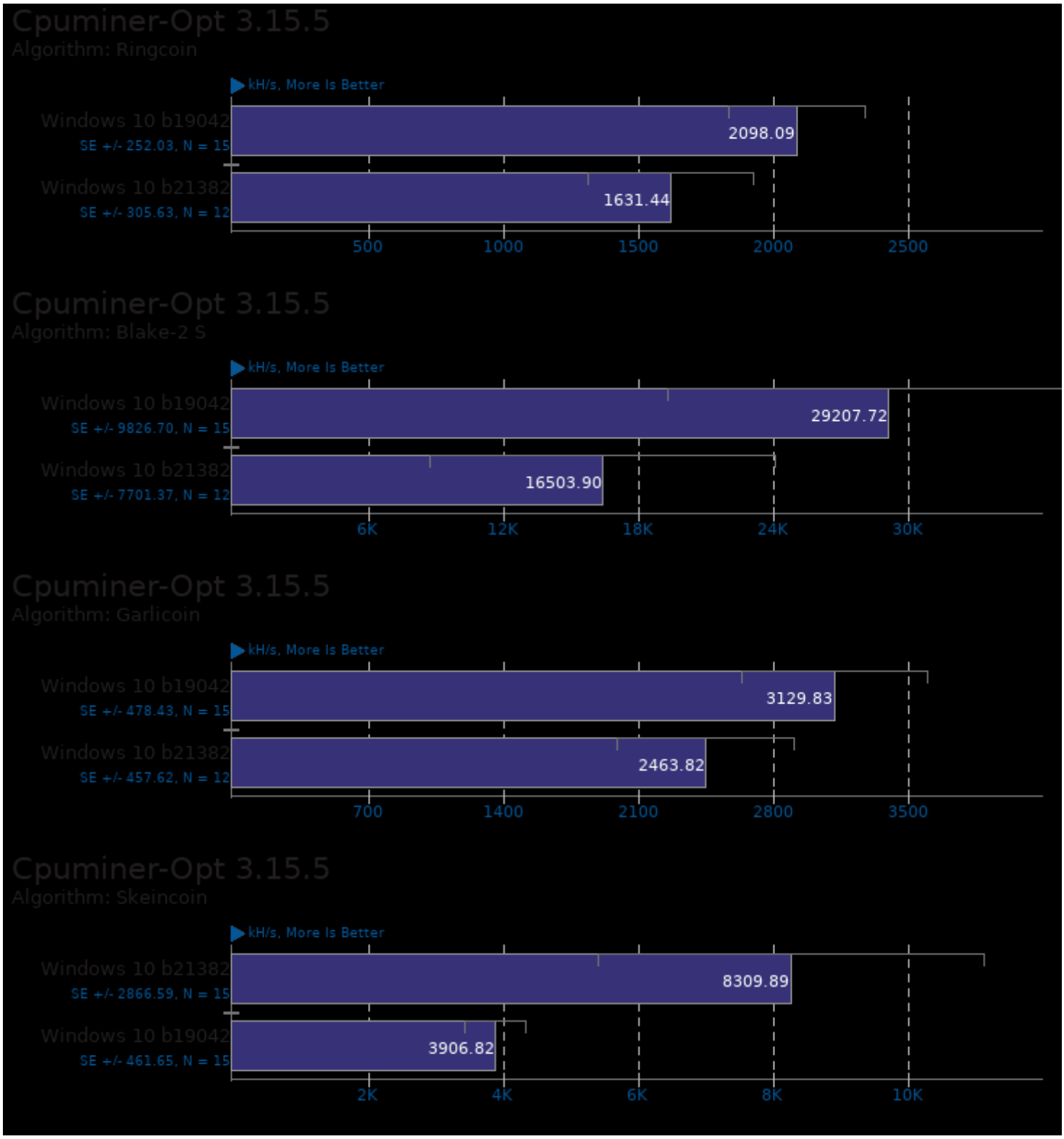

Intel Open Image Denoise 1.2.0
Scene: Memorial
Images / Sec, More Is Better
Windows 10 b19042
SE +/- 0.03, N = 3
29.32
Windows 10 b21382
SE +/- 0.34, N = 3
25.74
7
14
21
28
35
Stockfish 13
Total Time
Nodes Per Second, More Is Better
Windows 10 b19042
SE +/- 1254533.50, N = 15
152809742
Windows 10 b21382
SE +/- 670252.35, N = 15
84248194
30M
60M
90M
120M
150M
asmFish 2018-07-23
1024 Hash Memory, 26 Depth
Nodes/second, More Is Better
Windows 10 b19042
SE +/- 539061.63, N = 3
146079219
Windows 10 b21382
SE +/- 577142.01, N = 3
83359123
30M
60M
90M
120M
150M
libavif avifenc 0.9.0
Encoder Speed: 0
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.28, N = 3
54.06
Windows 10 b21382
SE +/- 0.34, N = 3
56.65
13
26
39
52
65


libavif avifenc 0.9.0
Encoder Speed: 2
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.07, N = 3
28.92
Windows 10 b21382
SE +/- 0.16, N = 3
30.09
7
14
21
28
35
libavif avifenc 0.9.0
Encoder Speed: 6
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.10, N = 3
11.23
Windows 10 b21382
SE +/- 0.05, N = 3
11.54
3
6
9
12
15
libavif avifenc 0.9.0
Encoder Speed: 10
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.038, N = 3
4.065
Windows 10 b21382
SE +/- 0.009, N = 3
4.140
0.9315
1.863
2.7945
3.726
4.6575
libavif avifenc 0.9.0
Encoder Speed: 6, Lossless
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.08, N = 3
28.63
Windows 10 b21382
SE +/- 0.15, N = 3
29.47
7
14
21
28
35

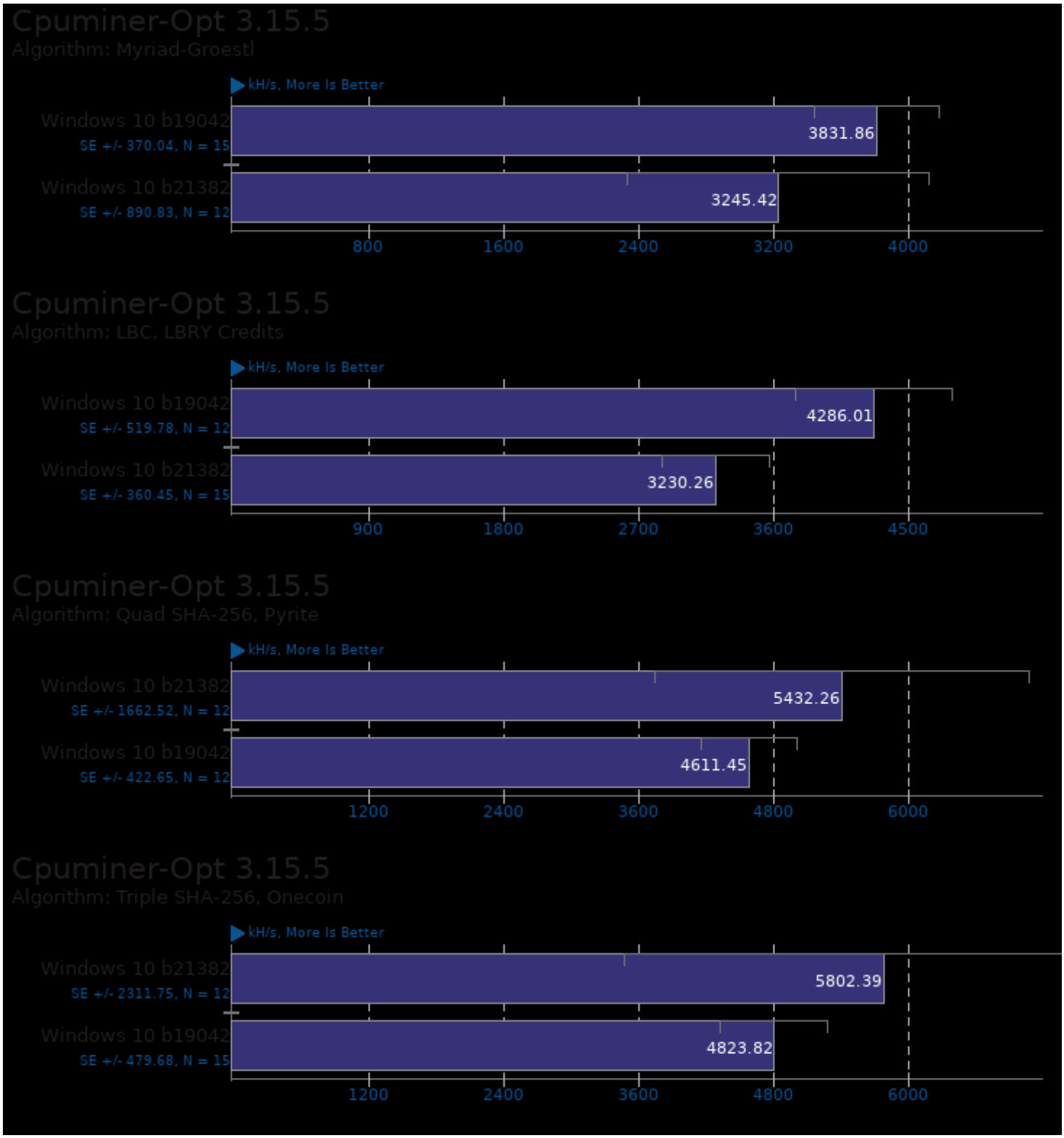

libavif avifenc 0.9.0
Encoder Speed: 10, Lossless
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.055, N = 3
6.651
Windows 10 b21382
SE +/- 0.029, N = 3
6.776
2
4
6
8
10
Primesieve 7.4
1e12 Prime Number Generation
Seconds, Fewer Is Better
Windows 10 b21382
SE +/- 0.051, N = 15
6.440
Windows 10 b19042
SE +/- 0.030, N = 3
6.657
2
4
6
8
10
FLAC Audio Encoding 1.3.2
WAV To FLAC
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.014, N = 5
8.140
Windows 10 b21382
SE +/- 0.019, N = 5
8.407
2
4
6
8
10
LAME MP3 Encoding 3.100
WAV To MP3
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.037, N = 3
9.073
Windows 10 b21382
SE +/- 0.019, N = 3
9.351
3
6
9
12
15

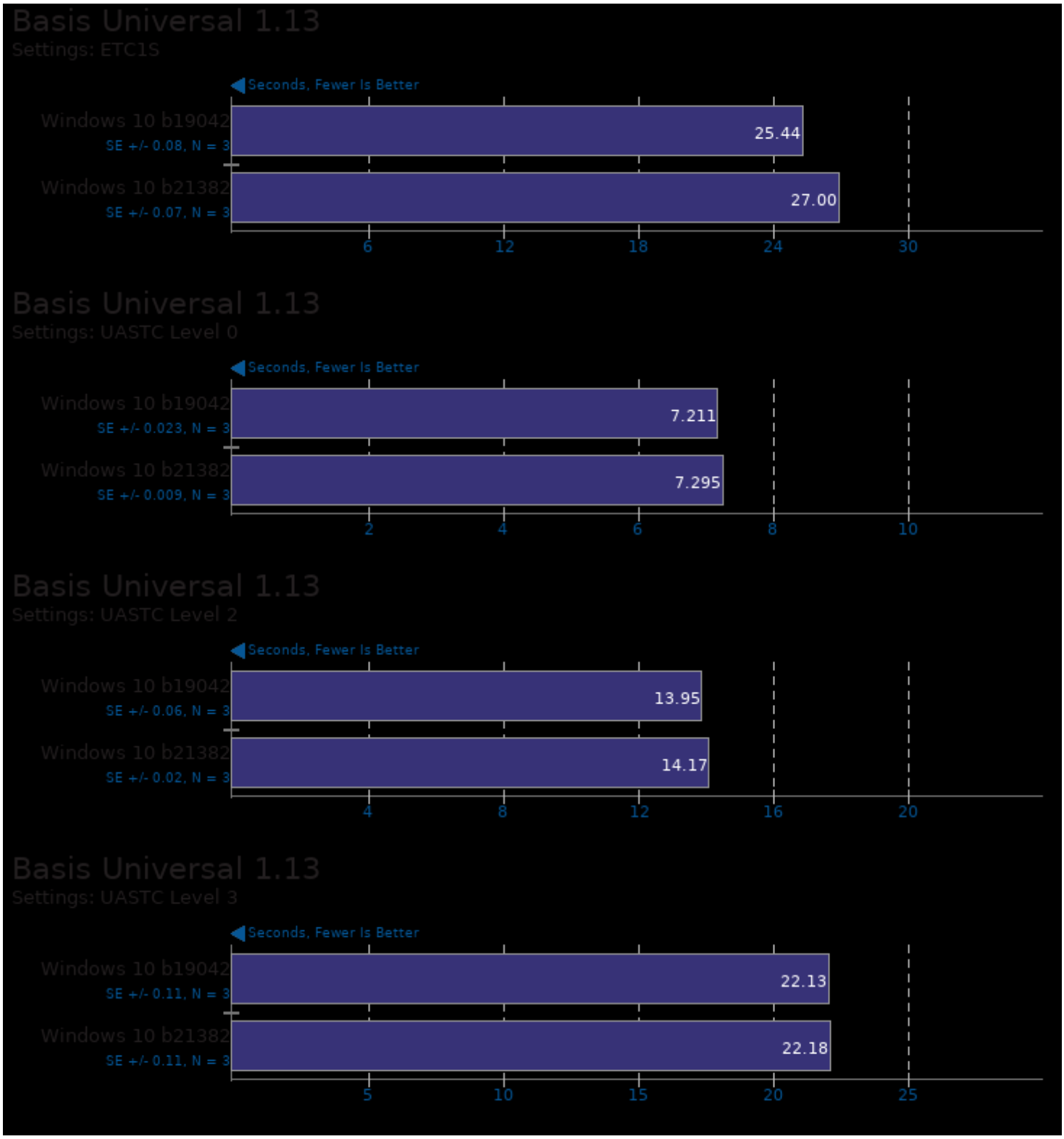

Opus Codec Encoding 1.3.1
WAV To Opus Encode
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.017, N = 5
9.903
Windows 10 b21382
SE +/- 0.021, N = 5
10.193
3
6
9
12
15
Minion 1.8
Benchmark: Graceful
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.26, N = 3
48.36
Windows 10 b21382
SE +/- 0.13, N = 3
49.18
11
22
33
44
55
Minion 1.8
Benchmark: Solitaire
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.44, N = 3
48.67
Windows 10 b21382
SE +/- 0.56, N = 4
50.59
11
22
33
44
55
Minion 1.8
Benchmark: Quasigroup
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.29, N = 3
111.09
Windows 10 b21382
SE +/- 0.08, N = 3
113.00
30
60
90
120
150

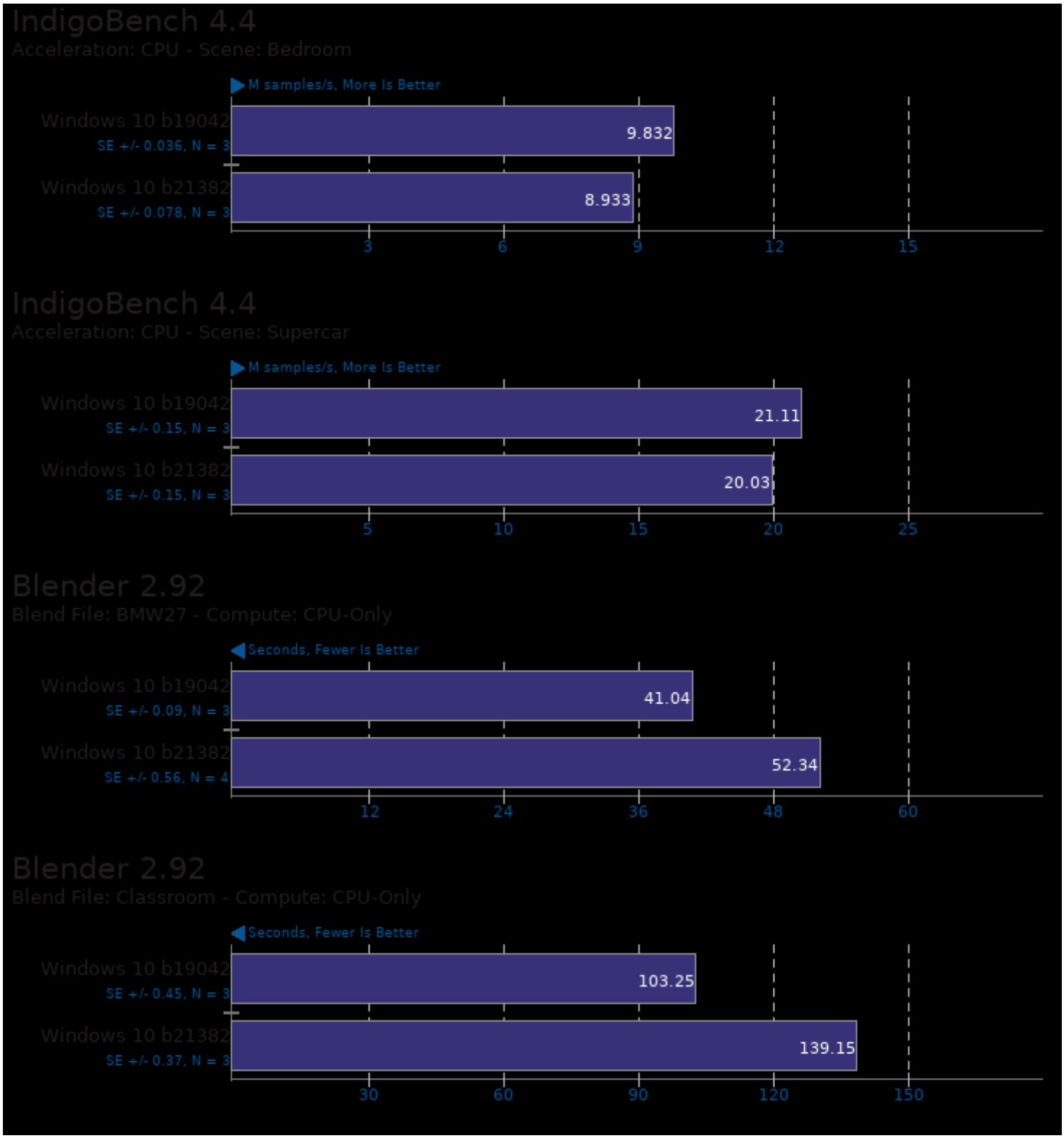

Sudokut 0.4
Total Time
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.10, N = 3
25.32
Windows 10 b21382
SE +/- 0.11, N = 3
27.40
6
12
18
24
30
Cpuminer-Opt 3.15.5
Algorithm: Magi
kH/s, More Is Better
Windows 10 b21382
SE +/- 66.05, N = 15
565.46
Windows 10 b19042
SE +/- 79.87, N = 12
470.41
120
240
360
480
600
Cpuminer-Opt 3.15.5
Algorithm: x25x
kH/s, More Is Better
Windows 10 b19042
SE +/- 116.83, N = 15
878.93
Windows 10 b21382
SE +/- 135.16, N = 15
697.66
200
400
600
800
1000
Cpuminer-Opt 3.15.5
Algorithm: Deepcoin
kH/s, More Is Better
Windows 10 b21382
SE +/- 951.24, N = 12
3574.85
Windows 10 b19042
SE +/- 341.84, N = 13
3103.43
800
1600
2400
3200
4000

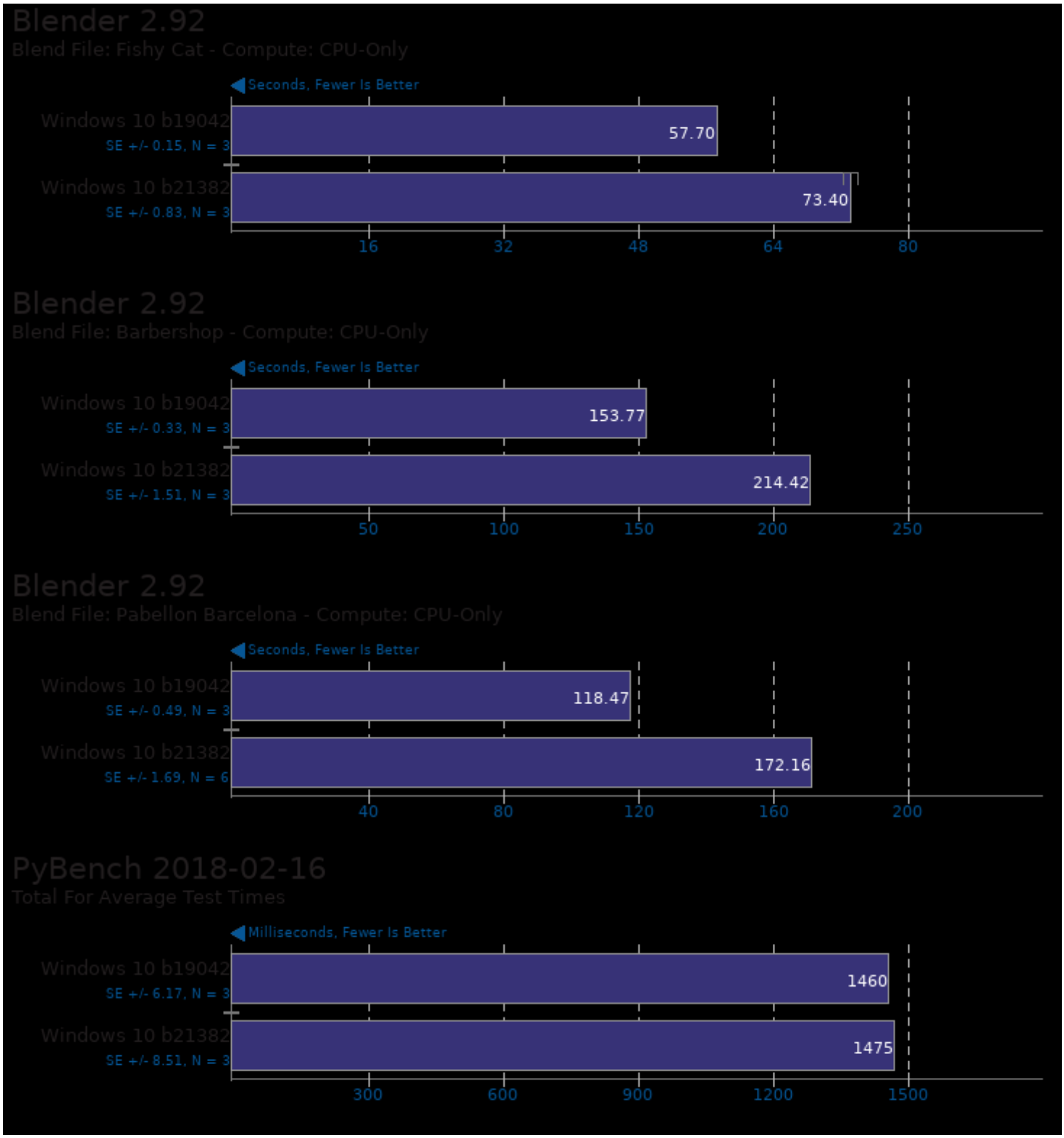

Cpuminer-Opt 3.15.5
Algorithm: Ringcoin
kH/s, More Is Better
Windows 10 b19042
SE +/- 252.03, N = 15
2098.09
Windows 10 b21382
SE +/- 305.63, N = 12
1631.44
500
1000
1500
2000
2500
Cpuminer-Opt 3.15.5
Algorithm: Blake-2 S
kH/s, More Is Better
Windows 10 b19042
SE +/- 9826.70, N = 15
29207.72
Windows 10 b21382
SE +/- 7701.37, N = 12
16503.90
6K
12K
18K
24K
30K
Cpuminer-Opt 3.15.5
Algorithm: Garlicoin
kH/s, More Is Better
Windows 10 b19042
SE +/- 478.43, N = 15
3129.83
Windows 10 b21382
SE +/- 457.62, N = 12
2463.82
700
1400
2100
2800
3500
Cpuminer-Opt 3.15.5
Algorithm: Skeincoin
kH/s, More Is Better
Windows 10 b21382
SE +/- 2866.59, N = 15
8309.89
Windows 10 b19042
SE +/- 461.65, N = 15
3906.82
2K
4K
6K
8K
10K

Windows 10 Threadripper 3990X

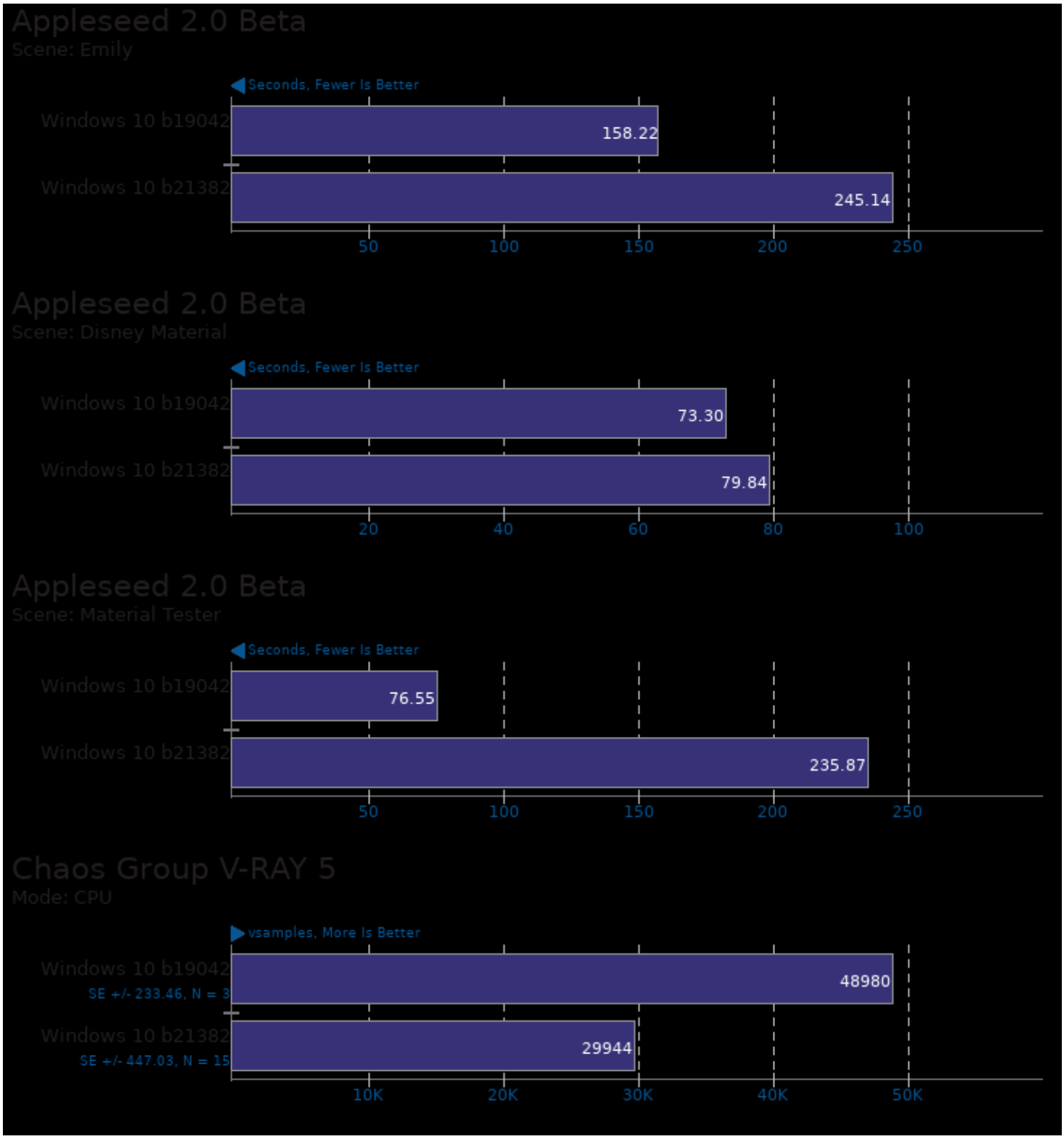



Basis Universal 1.13
Settings: ETC1S
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.08, N = 3
25.44
Windows 10 b21382
SE +/- 0.07, N = 3
27.00
6
12
18
24
30
Basis Universal 1.13
Settings: UASTC Level 0
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.023, N = 3
7.211
Windows 10 b21382
SE +/- 0.009, N = 3
7.295
2
4
6
8
10
Basis Universal 1.13
Settings: UASTC Level 2
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.06, N = 3
13.95
Windows 10 b21382
SE +/- 0.02, N = 3
14.17
4
8
12
16
20
Basis Universal 1.13
Settings: UASTC Level 3
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.11, N = 3
22.13
Windows 10 b21382
SE +/- 0.11, N = 3
22.18
5
10
15
20
25

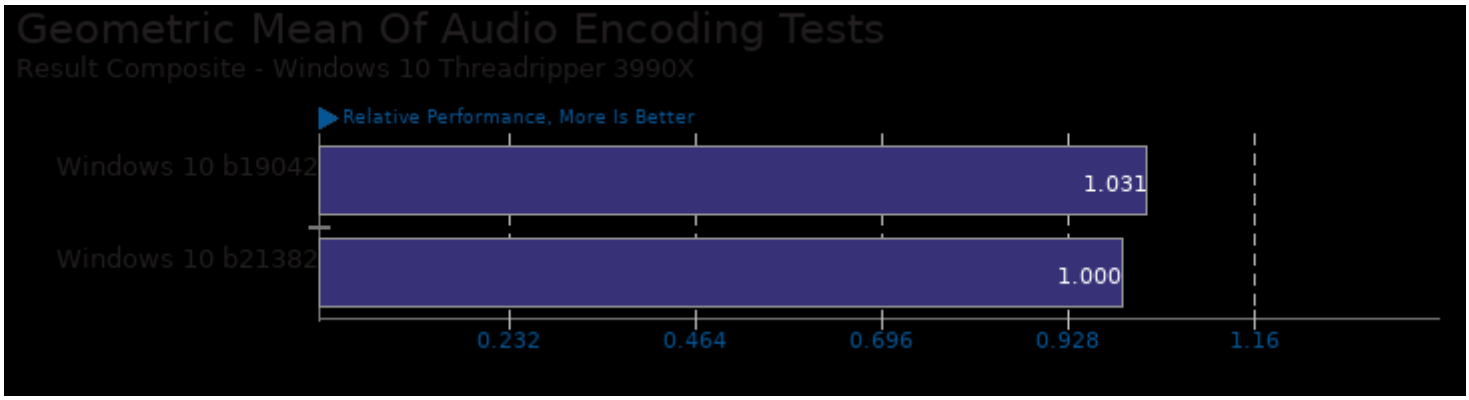

IndigoBench 4.4
Acceleration: CPU - Scene: Bedroom
M samples/s, More Is Better
Windows 10 b19042
SE +/- 0.036, N = 3
9.832
Windows 10 b21382
SE +/- 0.078, N = 3
8.933
3
6
9
12
15
IndigoBench 4.4
Acceleration: CPU - Scene: Supercar
M samples/s, More Is Better
Windows 10 b19042
SE +/- 0.15, N = 3
21.11
Windows 10 b21382
SE +/- 0.15, N = 3
20.03
5
10
15
20
25
Blender 2.92
Blend File: BMW27 - Compute: CPU-Only
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.09, N = 3
41.04
Windows 10 b21382
SE +/- 0.56, N = 4
52.34
12
24
36
48
60
Blender 2.92
Blend File: Classroom - Compute: CPU-Only
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.45, N = 3
103.25
Windows 10 b21382
SE +/- 0.37, N = 3
139.15
30
60
90
120
150


Blender 2.92
Blend File: Fishy Cat - Compute: CPU-Only
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.15, N = 3
57.70
Windows 10 b21382
SE +/- 0.83, N = 3
73.40
16
32
48
64
80
Blender 2.92
Blend File: Barbershop - Compute: CPU-Only
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.33, N = 3
153.77
Windows 10 b21382
SE +/- 1.51, N = 3
214.42
50
100
150
200
250
Blender 2.92
Blend File: Pabellon Barcelona - Compute: CPU-Only
Seconds, Fewer Is Better
Windows 10 b19042
SE +/- 0.49, N = 3
118.47
Windows 10 b21382
SE +/- 1.69, N = 6
172.16
40
80
120
160
200
PyBench 2018-02-16
Total For Average Test Times
Milliseconds, Fewer Is Better
Windows 10 b19042
SE +/- 6.17, N = 3
1460
Windows 10 b21382
SE +/- 8.51, N = 3
1475
300
600
900
1200
1500

Windows 10 Threadripper 3990X



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



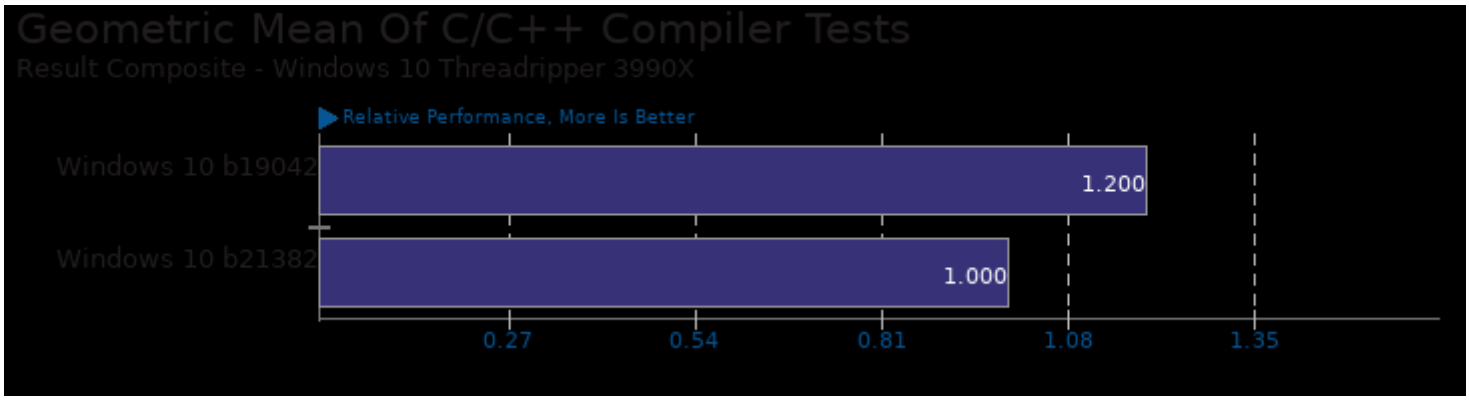
Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/encode-opus



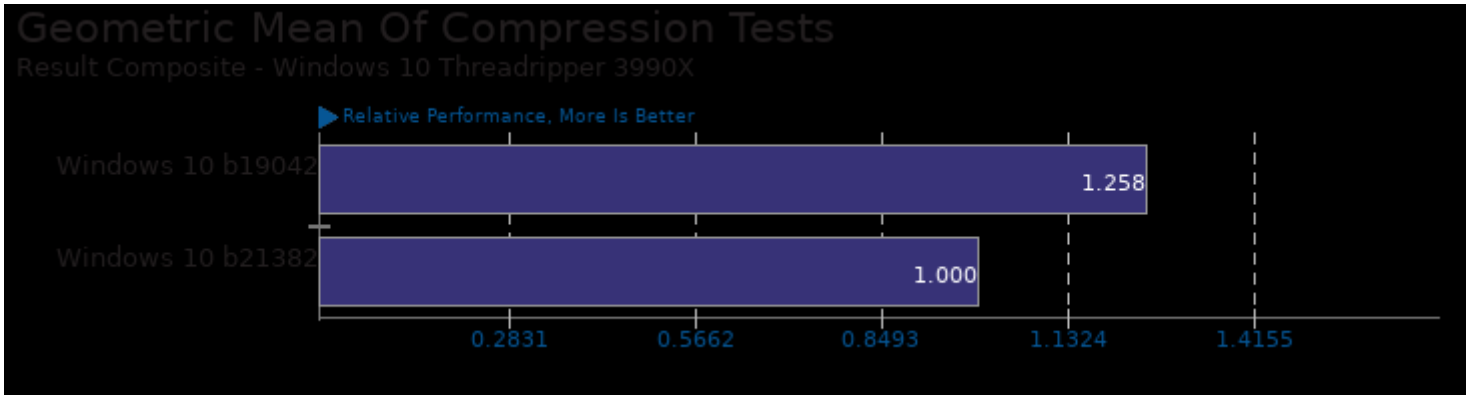
Geometric mean based upon tests: pts/dav1d, pts/svt-av1, pts/rav1e and pts/avifenc



Geometric mean based upon tests: pts/crafty, pts/tscp, pts/lczero, pts/stockfish and pts/asmfish



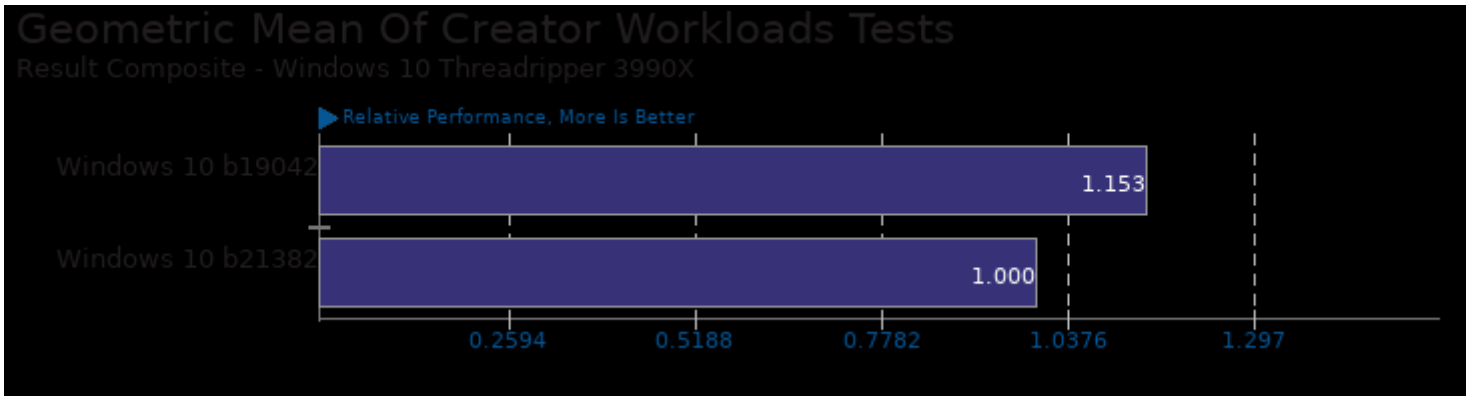
Geometric mean based upon tests: pts/tscp, pts/graphics-magick, pts/stockfish, pts/encode-mp3, pts/encode-flac, pts/john-the-ripper, pts/dav1d, pts/x264, pts/compress-zstd, pts/svt-av1 and pts/basis



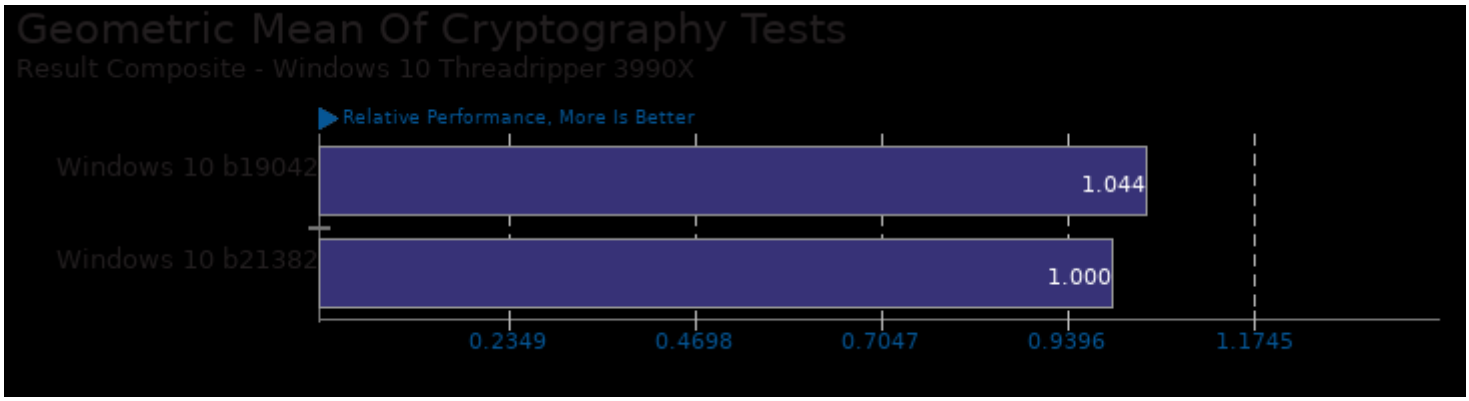
Geometric mean based upon tests: pts/compress-zstd and pts/compress-lz4



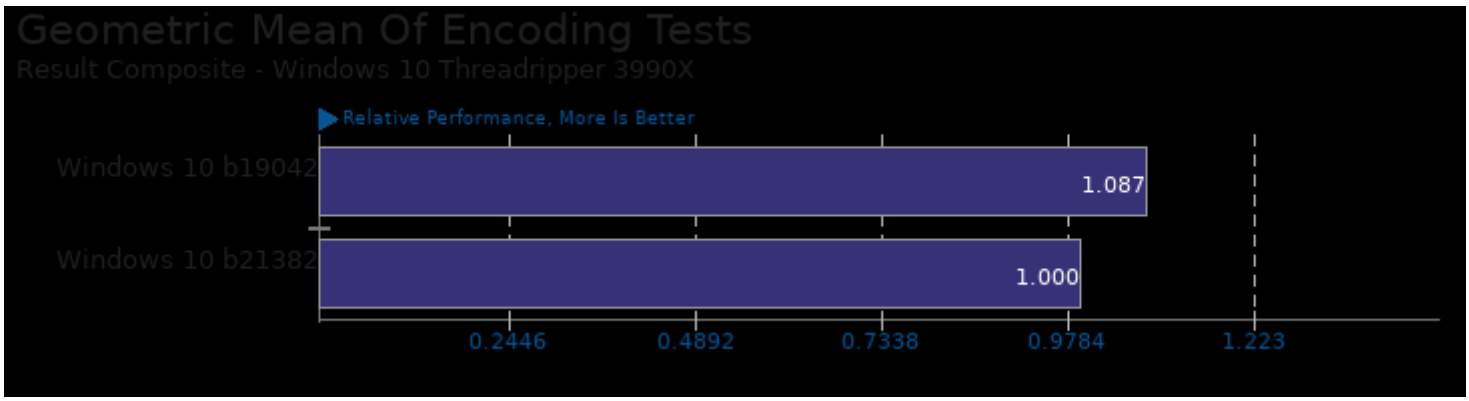
Geometric mean based upon tests: pts/asmfish, pts/compress-zstd, pts/crafty, pts/dacapobench, pts/dav1d, pts/svt-av1, pts/x264, pts/encode-flac, pts/encode-mp3, pts/graphics-magick, pts/john-the-ripper, pts/lczero, pts/minion, pts/primesieve, pts/stockfish, pts/v-ray, pts/blender and pts/cpuminer-opt



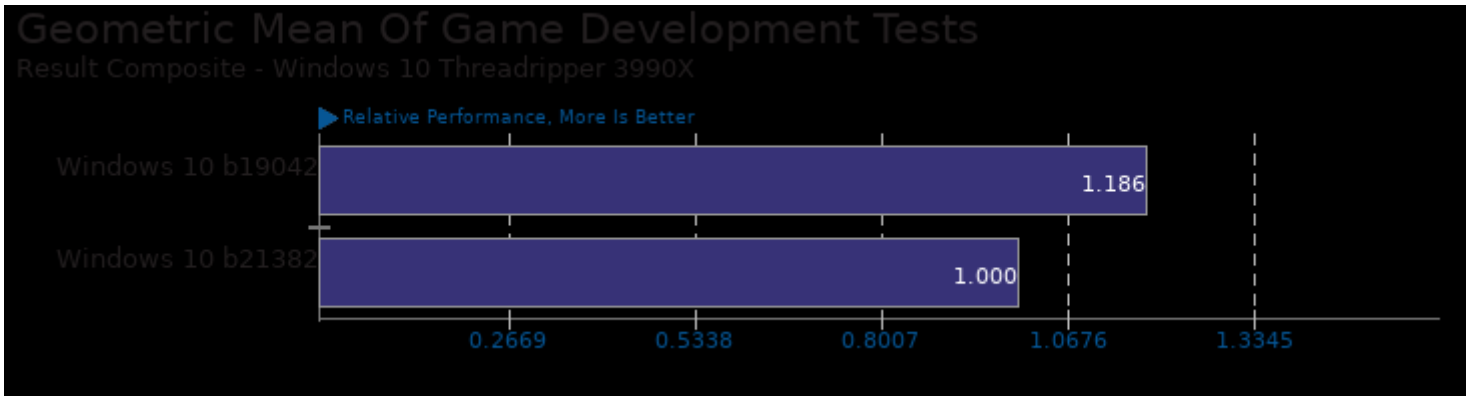
Geometric mean based upon tests: pts/blender, pts/appleseed, pts/v-ray, pts/indigobench, pts/x264, pts/dav1d, pts/svt-av1, pts/rav1e, pts/avifenc, pts/encode-mp3, pts/encode-flac, pts/encode-opus, pts/graphics-magick, pts/libraw, pts/webp, pts/embree, pts/oidn and pts/basis



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



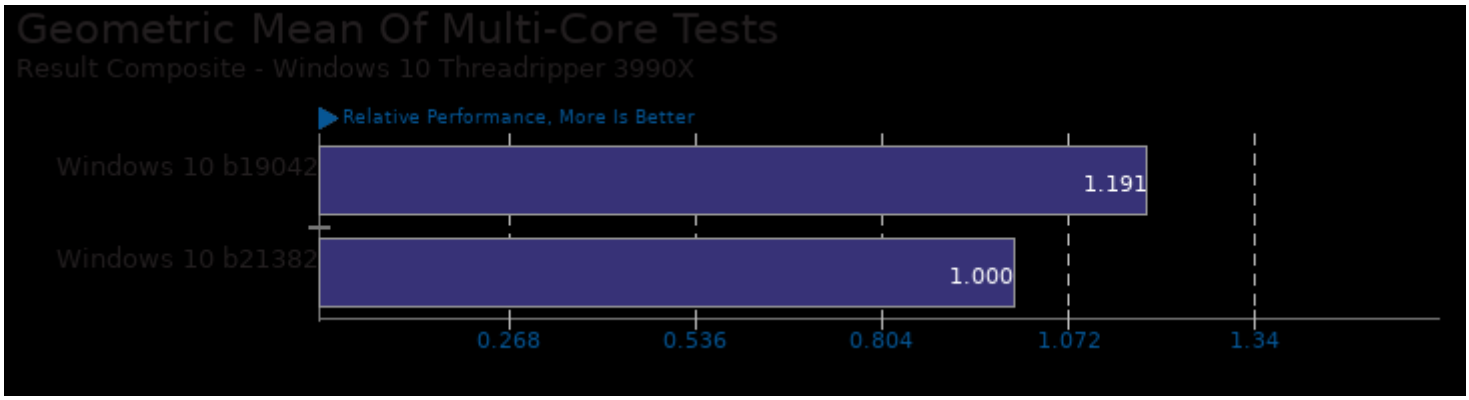
Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac, pts/encode-opus, pts/x264, pts/dav1d, pts/svt-av1, pts/rav1e and pts/avifenc



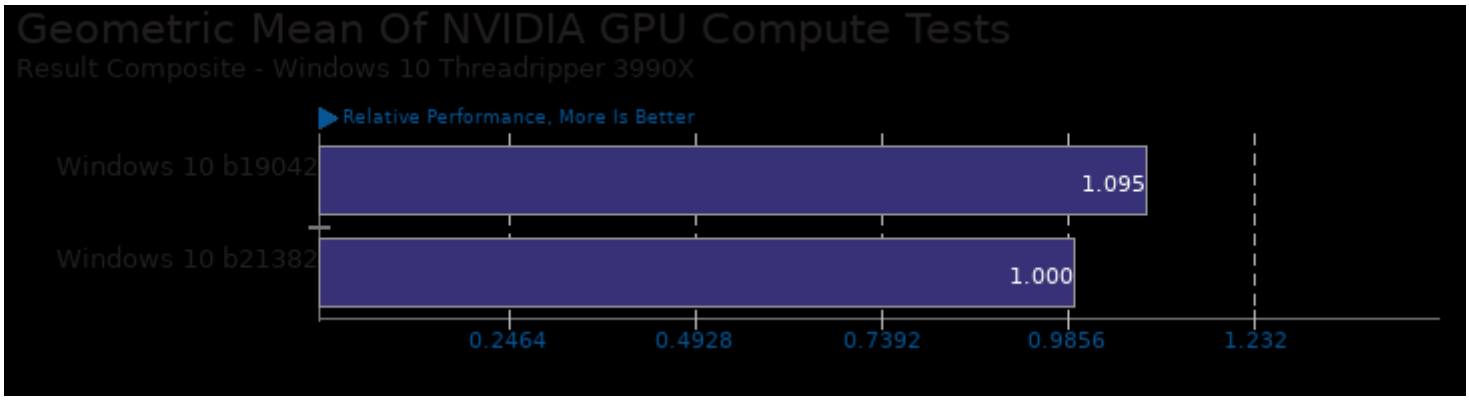
Geometric mean based upon tests: pts/basis, pts/blender and pts/oidn



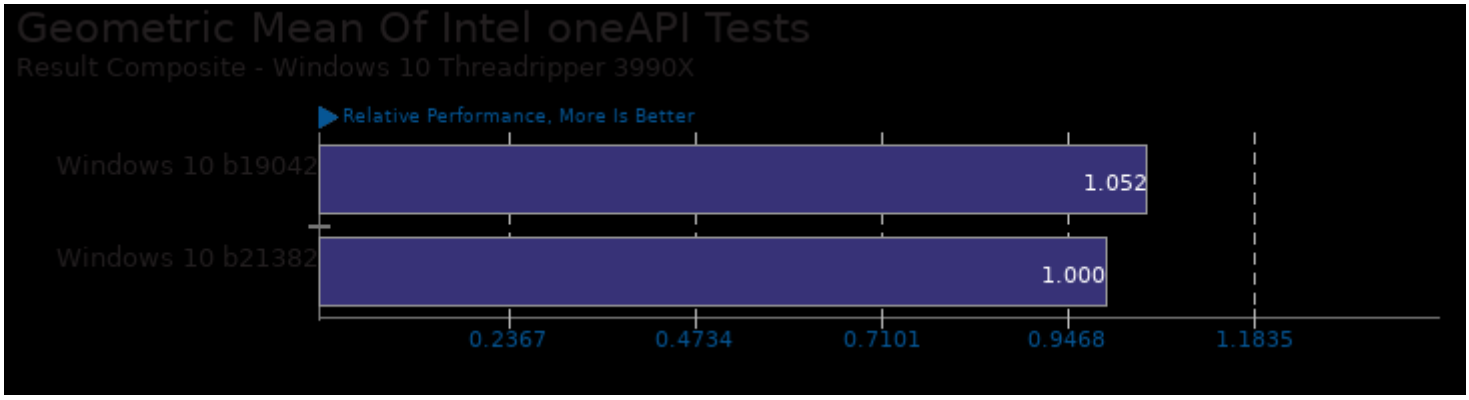
Geometric mean based upon tests: pts/graphics-magick, pts/libraw, pts/webp and pts/avifenc



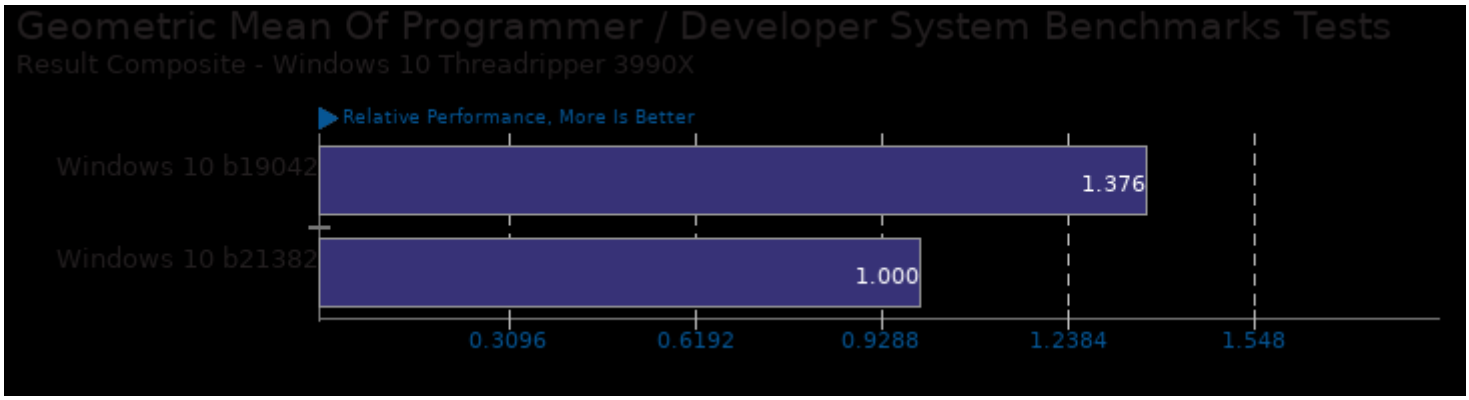
Geometric mean based upon tests: pts/blender, pts/cpuminer-opt, pts/stockfish, pts/x264, pts/dav1d, pts/svt-av1, pts/rav1e, pts/avifenc, pts/primesieve, pts/john-the-ripper, pts/asmfish, pts/graphics-magick, pts/compress-zstd, pts/appleseed, pts/v-ray, pts/indigobench, pts/embree and pts/oidn



Geometric mean based upon tests: pts/lczero, pts/indigobench, pts/v-ray and pts/blender



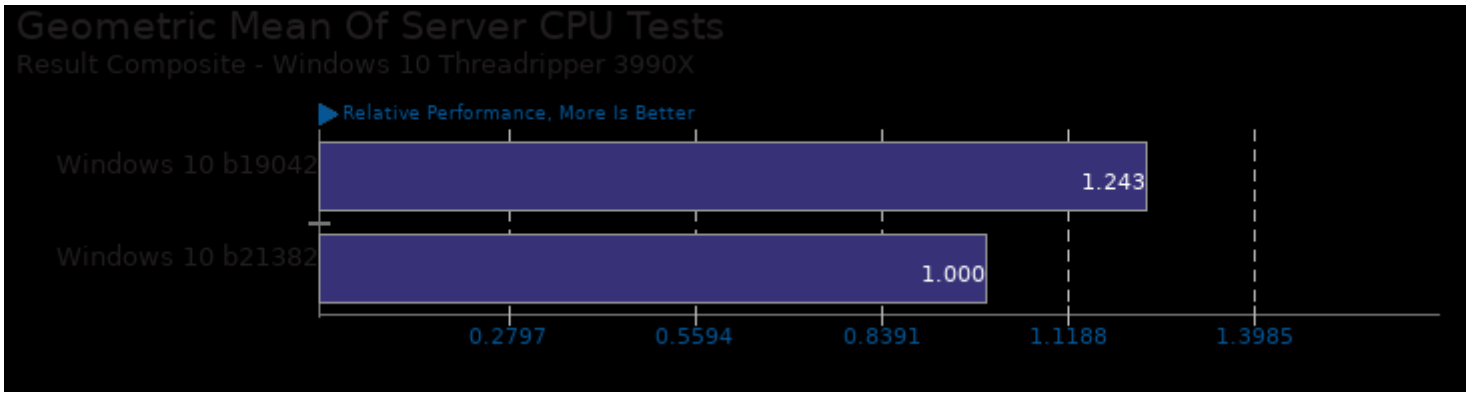
Geometric mean based upon tests: pts/embree and pts/oidn



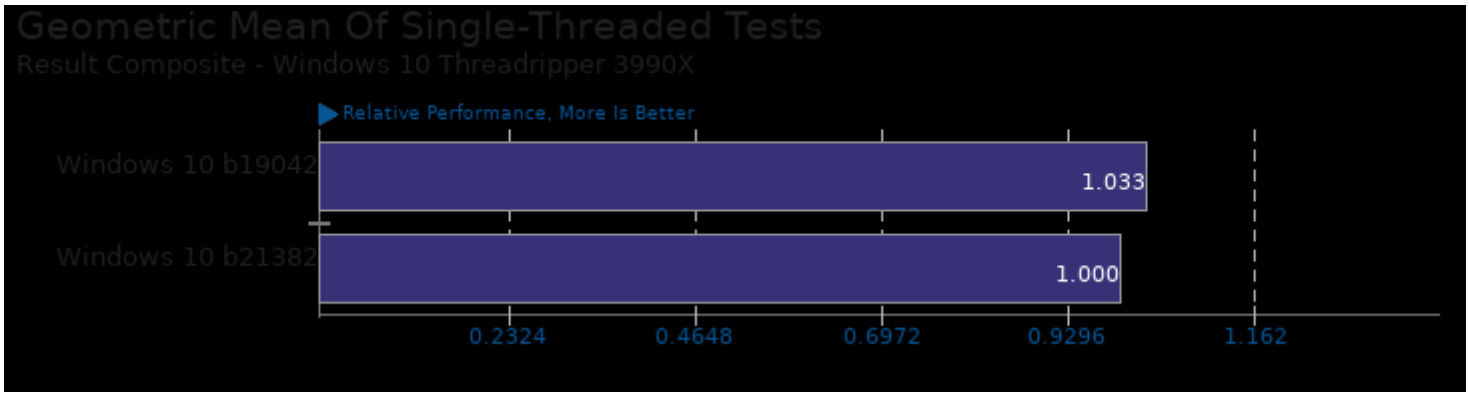
Geometric mean based upon tests: pts/compress-zstd and pts/pybench



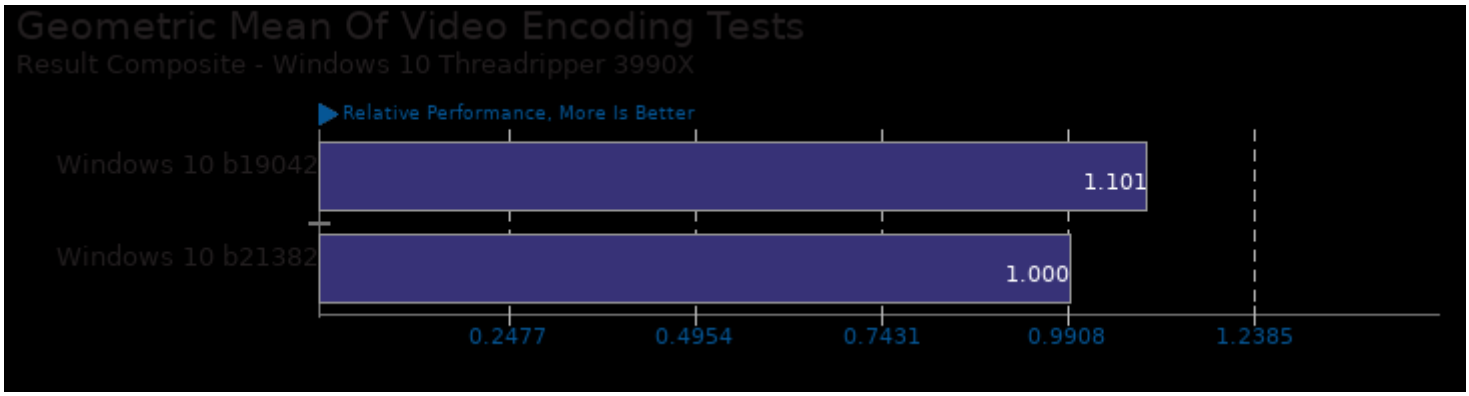
Geometric mean based upon tests: pts/blender, pts/appleseed, pts/v-ray and pts/indigobench



Geometric mean based upon tests: pts/dacapobench, pts/john-the-ripper, pts/svt-av1, pts/x264, pts/dav1d, pts/stockfish, pts/asmfish, pts/compress-zstd, pts/blender, pts/appleseed, pts/pybench and pts/cpuminer-opt



Geometric mean based upon tests: pts/encode-flac, pts/encode-mp3, pts/minion, pts/sudokut and pts/pybench



Geometric mean based upon tests: pts/x264, pts/dav1d, pts/svt-av1, pts/rav1e and pts/avifenc

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 13:25.