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microprocessorlectureproject

Intel Core i7-8650U testing with a Microsoft Surface Book 2 (392.72.768 BIOS) and NVIDIA GeForce GTX 1060 + Intel UHD 620 6GB on Microsoft Windows 10 Pro Build 19044 via the Phoronix Test Suite.

Test Systems:

Intel Core i7-8650U

TAP-Windows V9

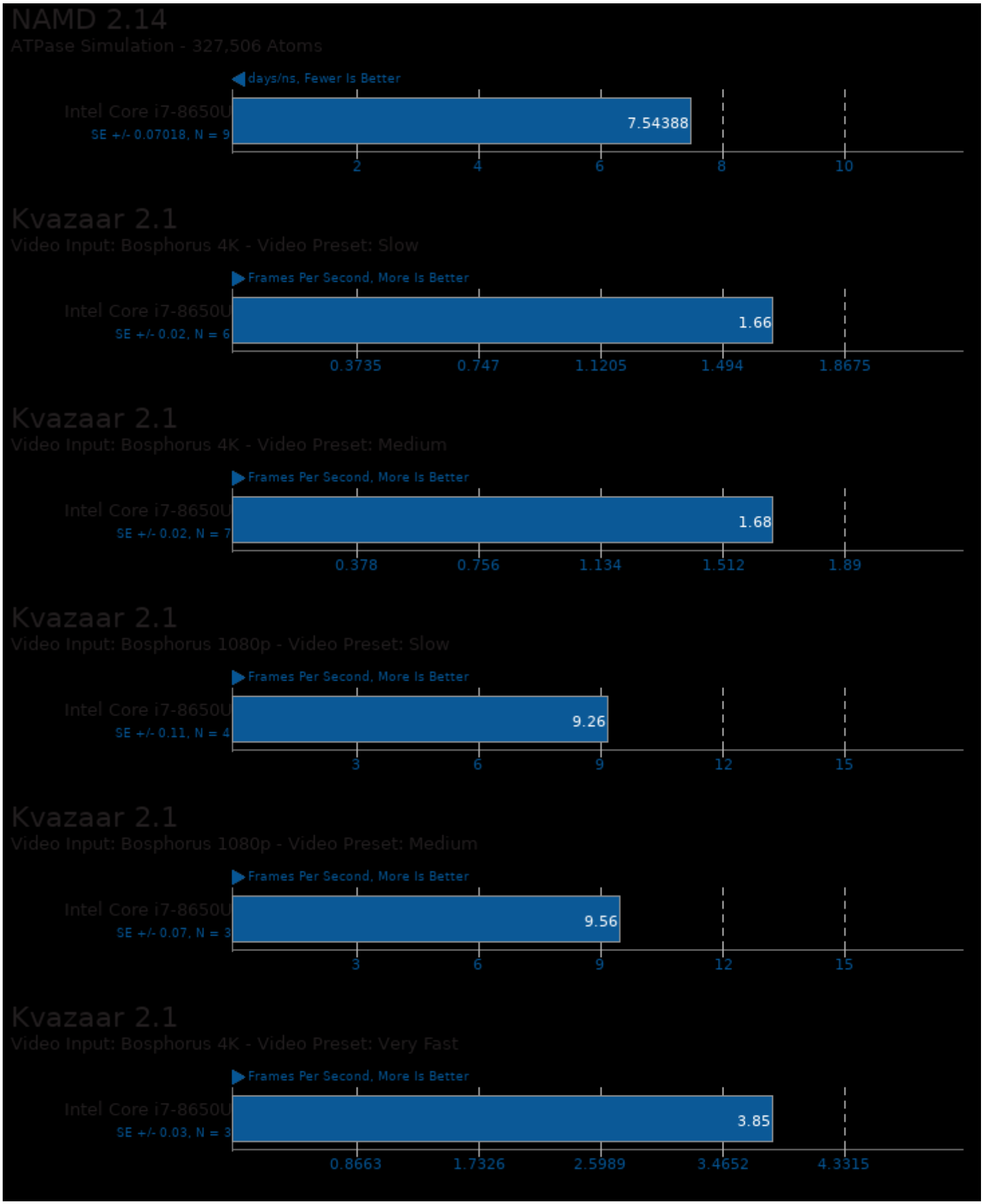
Processor: Intel Core i7-8650U @ 2.11GHz (4 Cores / 8 Threads), Motherboard: Microsoft Surface Book 2 (392.72.768 BIOS), Memory: 2 x 8192 MB 1867MHz H9CCNNNCLGALAR-NUD, Disk: 238GB KXG50ZNV256G TOSHIBA, Graphics: NVIDIA GeForce GTX 1060 + Intel UHD 620 6GB, Audio: Intel Display Audio + Realtek HD Audio(SST), Network: TAP-Windows V9 + Marvell AVASTAR Wireless-AC + Xbox Wireless for Windows

OS: Microsoft Windows 10 Pro Build 19044, Kernel: 10.0.19044.1645 (x86_64), Display Driver: 461.40 (27.21.14.6140), File-System: NTFS, Screen Resolution: 3240x2160

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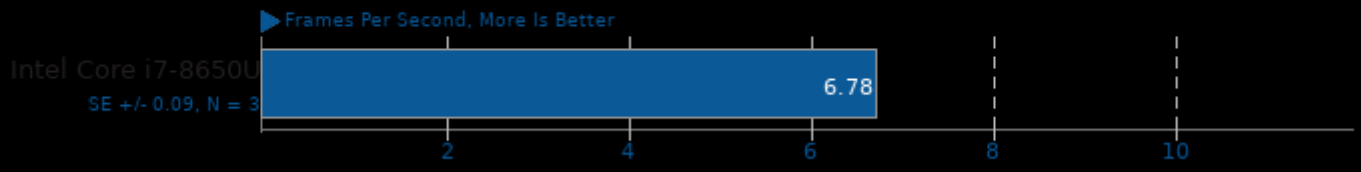
Security Notes: __user pointer sanitization: Disabled + IBPB: Always + IBRS: Enabled + STIBP: Enabled + KPTI Enabled: Yes + PTE Inversion: Yes + VBS: Disabled

	Intel Core i7-8650U	TAP-Windows V9
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	7.54388	
Standard Deviation	2.8%	
Kvazaar - Bosphorus 4K - Slow (FPS)	1.66	
Standard Deviation	2.4%	
Kvazaar - Bosphorus 4K - Medium (FPS)	1.68	
Standard Deviation	2.5%	
Kvazaar - Bosphorus 1080p - Slow (FPS)	9.26	
Standard Deviation	2.3%	
Kvazaar - Bosphorus 1080p - Medium (FPS)	9.56	
Standard Deviation	1.2%	
Kvazaar - Bosphorus 4K - Very Fast (FPS)	3.85	
Standard Deviation	1.5%	
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	6.78	
Standard Deviation	2.4%	
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	18.27	
Standard Deviation	2.4%	
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	32.10	
Standard Deviation	1.4%	
x264 - H.2.V.E (FPS)	27.07	
Standard Deviation	2.4%	
7-Zip Compression - Compression Rating (MIPS)	19757	
Standard Deviation	3.2%	
7-Zip Compression - D.R (MIPS)	14985	
Standard Deviation	2.1%	
Stockfish - Total Time (Nodes/s)	**6477488**	
Normalized	100%	
Standard Deviation	2.3%	
asmFish - 1.H.M.2.D (Nodes/s)	**7757095**	
Normalized	100%	
Standard Deviation	2.5%	
LeelaChessZero - BLAS (Nodes/s)	880	
Standard Deviation	2.4%	
Crafty - Elapsed Time (Nodes/s)	6207146	
Standard Deviation	0.9%	
TSCP - A.C.P (Nodes/s)	1202144	
Standard Deviation	3.6%	
m-queens - Time To Solve (sec)	301.431	
Standard Deviation	0.4%	
N-Queens - Elapsed Time (sec)	53.204	
Standard Deviation	1.4%	


NAMD 2.14
ATPase Simulation - 327,506 Atoms
days/ns, Fewer Is Better
Intel Core i7-8650U
SE +/- 0.07018, N = 9
7.54388
2
4
6
8
10
Kvazaar 2.1
Video Input: Bosphorus 4K - Video Preset: Slow
Frames Per Second, More Is Better
Intel Core i7-8650U
SE +/- 0.02, N = 6
1.66
0.3735
0.747
1.1205
1.494
1.8675
Kvazaar 2.1
Video Input: Bosphorus 4K - Video Preset: Medium
Frames Per Second, More Is Better
Intel Core i7-8650U
SE +/- 0.02, N = 7
1.68
0.378
0.756
1.134
1.512
1.89
Kvazaar 2.1
Video Input: Bosphorus 1080p - Video Preset: Slow
Frames Per Second, More Is Better
Intel Core i7-8650U
SE +/- 0.11, N = 4
9.26
3
6
9
12
15
Kvazaar 2.1
Video Input: Bosphorus 1080p - Video Preset: Medium
Frames Per Second, More Is Better
Intel Core i7-8650U
SE +/- 0.07, N = 3
9.56
3
6
9
12
15
Kvazaar 2.1
Video Input: Bosphorus 4K - Video Preset: Very Fast
Frames Per Second, More Is Better
Intel Core i7-8650U
SE +/- 0.03, N = 3
3.85
0.8663
1.7326
2.5989
3.4652
4.3315

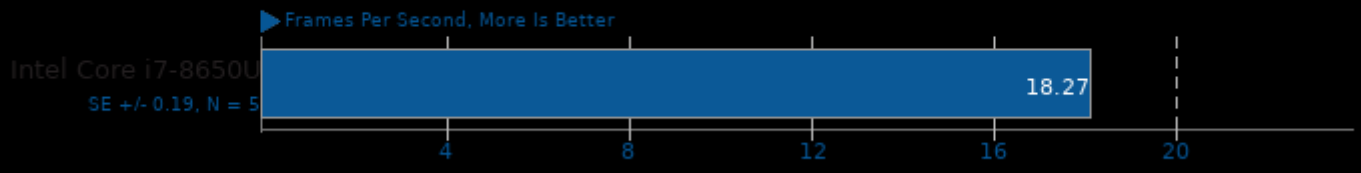
Kvazaar 2.1

Video Input: Bosphorus 4K - Video Preset: Ultra Fast



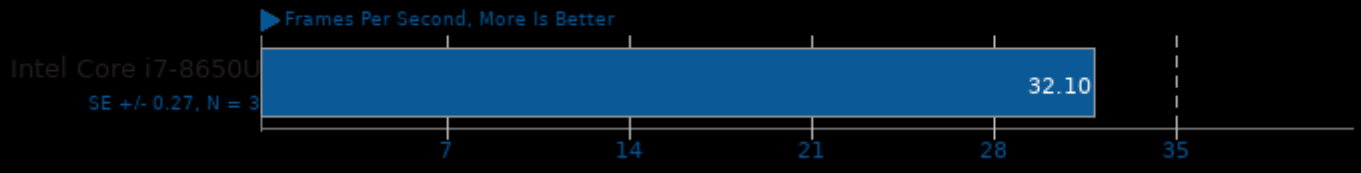
Kvazaar 2.1

Video Input: Bosphorus 1080p - Video Preset: Very Fast



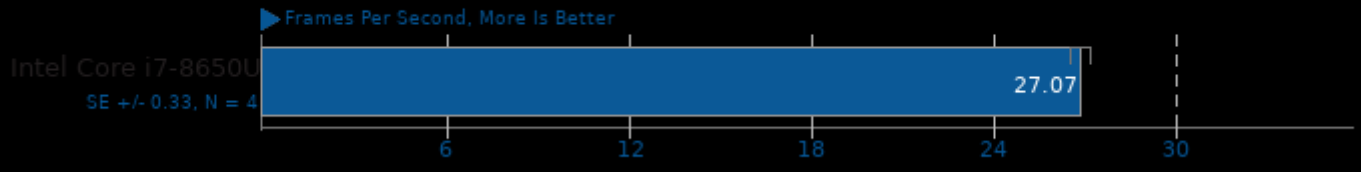
Kvazaar 2.1

Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



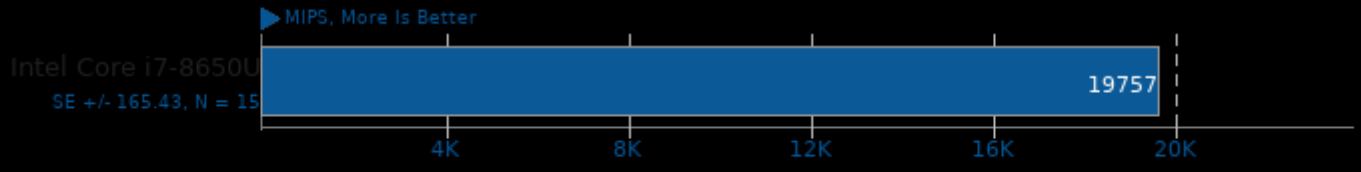
x264 2019-12-17

H.264 Video Encoding



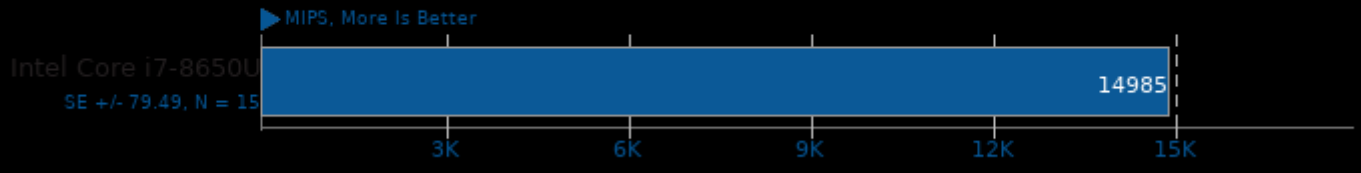
7-Zip Compression 21.06

Test: Compression Rating



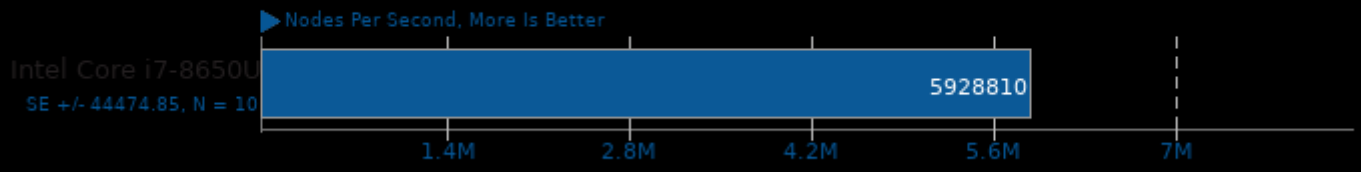
7-Zip Compression 21.06

Test: Decompression Rating



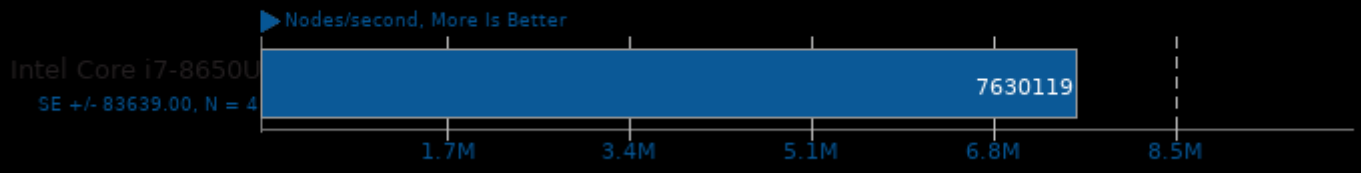
Stockfish 13

Total Time



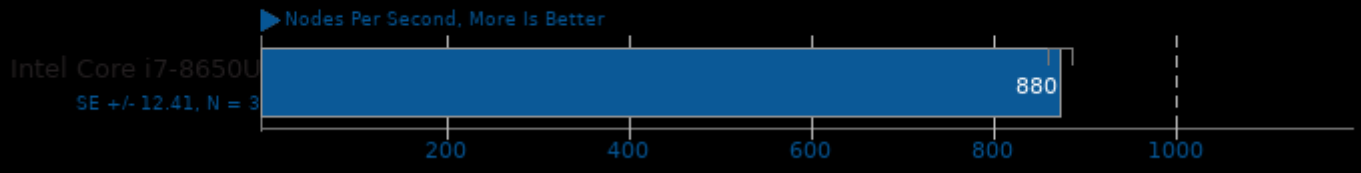
asmFish 2018-07-23

1024 Hash Memory, 26 Depth



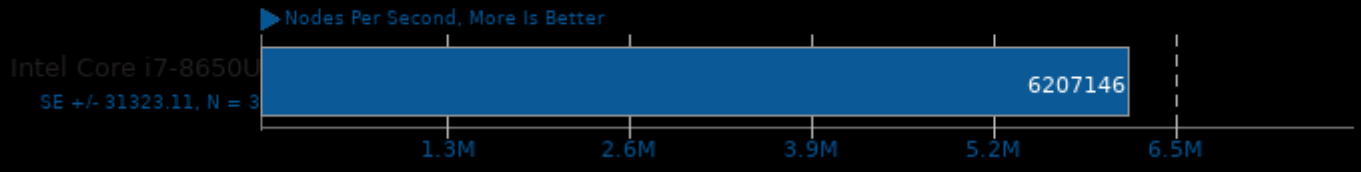
LeelaChessZero 0.28

Backend: BLAS



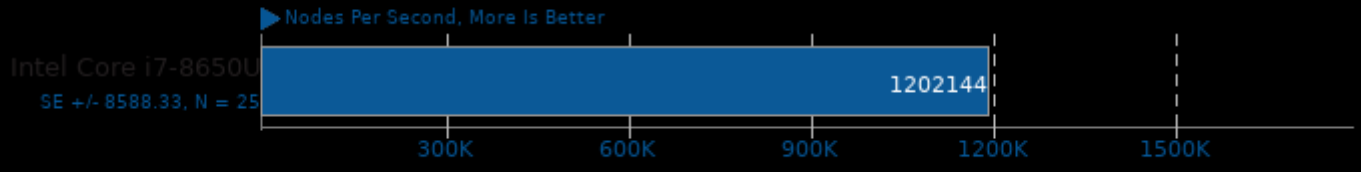
Crafty 25.2

Elapsed Time



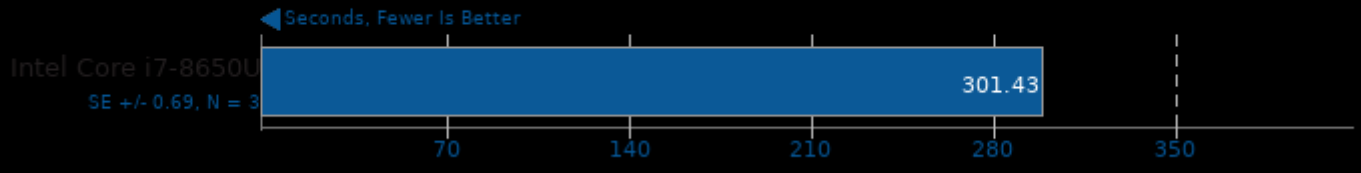
TSCP 1.81

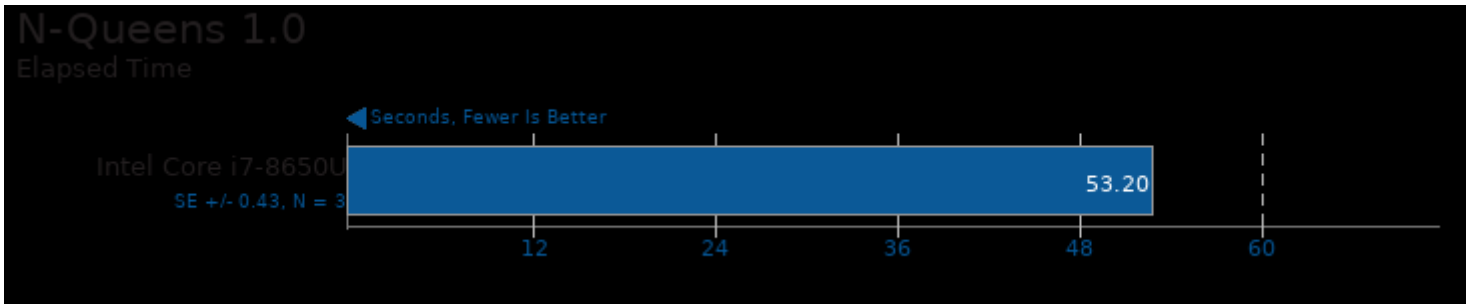
AI Chess Performance



m-queens 1.2

Time To Solve





This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 17:55.