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Intel Core i7-13700KF testing with a ASUS ROG STRIX B660-F GAMING WIFI (2012 BIOS) and NVIDIA GeForce RTX 3070 8GB on Microsoft Windows 11 Pro Build 22621 via the Phoronix Test Suite.

amdalltests: AMD Ryzen 7 5700X 8-Core testing with a MSI MAG B550 TOMAHAWK (MS-7C91) (A.B0 BIOS) and NVIDIA GeForce RTX 3070 8GB on Microsoft Windows 11 Pro Build 22621 via the Phoronix Test Suite.

Automated Executive Summary

Core i7 13700KF had the most wins, coming in first place for 81% of the tests.

Based on the geometric mean of all complete results, the fastest (Core i7 13700KF) was 1.53x the speed of the slowest (AMD Ryzen 7 5700X). NVIDIA GeForce RTX 3070 was 0.735x the speed of Core i7 13700KF and AMD Ryzen 7 5700X was 0.889x the speed of NVIDIA GeForce RTX 3070.

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

yquake2 (Renderer: Vulkan - AF: On - MSAA: On - Resolution: 1920 x 1080) at 9.464x
yquake2 (Renderer: Vulkan - AF: On - MSAA: On - Resolution: 2560 x 1440) at 6.308x
OSBench (Test: Memory Allocations) at 2.939x
ParaView (Test: Wavelet Volume - Resolution: 1920 x 1080) at 2.751x
ParaView (Test: Wavelet Contour - Resolution: 1920 x 1080) at 2.719x

Cpuminer-Opt (Algorithm: x25x) at 2.484x
Blender (Blend File: BMW27 - Compute: CPU-Only) at 2.391x
ASTC Encoder (Preset: Thorough) at 2.346x
Cpuminer-Opt (Algorithm: Triple SHA-256, Onecoin) at 2.309x
Cpuminer-Opt (Algorithm: Magi) at 2.28x.

Test Systems:

Core i7 13700KF

Processor: Intel Core i7-13700KF @ 3.40GHz (16 Cores / 24 Threads), Motherboard: ASUS ROG STRIX B660-F GAMING WIFI (2012 BIOS), Memory: 2 x 32768 MB 4800MHz F5-5600J3636D32G, Disk: 932GB Samsung SSD 970 EVO Plus 1TB + 1863GB Netac NVMe SSD 2TB + 7GB USB DISK 2.0 USB, Graphics: NVIDIA GeForce RTX 3070 8GB, Audio: USB Audio 2.0 + NVIDIA Virtual Audio Device (Wave Extensible) (WDM) + NVIDIA HD Audio, Monitor: DELL S71DG, Network: 2 x Realtek PCIe GbE + Bluetooth Device (Personal Area) + Realtek RTL8852AE WiFi 6 802.11ax PCIe + Intel (3) I225-V + Bluetooth Device (Personal Area) #2

OS: Microsoft Windows 11 Pro Build 22621, Kernel: 10.0.22621.963 (x86_64), Display Driver: 526.98 (31.0.15.2698), OpenCL: OpenCL 3.0 CUDA 12.0.89, File-System: NTFS, Screen Resolution: 2560x1440

Processor Notes: CPU Microcode: 000000000E010000
Python Notes: Python 3.7.9
Security Notes: VBS: Enabled and running + HVCI: Running + MBEC: Available

Teste AMD 5700X + RTX 3070 + 64GB DDR4

AMD Ryzen 7 5700X

Processor: AMD Ryzen 7 5700X 8-Core @ 3.40GHz (8 Cores / 16 Threads), Motherboard: MSI MAG B550 TOMAHAWK (MS-7C91) (A.B0 BIOS), Memory: 4 x 16384 MB 2933MHz Kingston HX432C16FB4, Disk: 1863GB Netac NVMe SSD 2TB + 932GB Samsung SSD 970 EVO Plus 1TB, Graphics: NVIDIA GeForce RTX 3070 8GB, Audio: NVIDIA HD Audio + HD Audio Device + NVIDIA Virtual Audio Device (Wave Extensible) (WDM), Monitor: DELL U414H, Network: Realtek PCIe GbE + Bluetooth Device (Personal Area) + Realtek RTL8852AE WiFi 6 802.11ax PCIe + Wintun Userspace Tunnel + Realtek PCIe GbE #2

OS: Microsoft Windows 11 Pro Build 22621, Kernel: 10.0.22621.963 (x86_64), Display Driver: 526.98 (31.0.15.2698), OpenCL: OpenCL 3.0 CUDA 12.0.89, File-System: NTFS, Screen Resolution: 1920x1080

Python Notes: Python 3.7.9
Security Notes: __user pointer sanitization: Disabled + Retpoline: Full + IBPB: Always + IBRS: Enabled + STIBP: Enabled + VBS: Enabled and running + HVCI: Running + MBEC: Available

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	Core i7 13700KF	Teste AMD 5700X + RTX 3070 + 64GB DDR4	AMD Ryzen 7 5700X
Hashcat - MD5 (H/s)	40241600000		40643500000
Normalized	99.01%		100%
Standard Deviation	0.2%		0.2%
Hashcat - SHA1 (H/s)	12682666667		12804233333
Normalized	99.05%		100%
Standard Deviation	0.8%		0.1%
Hashcat - 7-Zip (H/s)			653000
Standard Deviation			0.2%
Hashcat - SHA-512 (H/s)	1838266667		1863866667
Normalized	98.63%		100%
Standard Deviation	0.8%		0.1%
Hashcat - T.R.X (H/s)	482833		477333
Normalized	100%		98.86%
Standard Deviation	0.6%		0.4%
GravityMark - 1920 x 1080 - Vulkan (FPS)	227.4		237.5
Normalized	95.75%		100%
Standard Deviation	0%		0.2%
GravityMark - 2560 x 1440 - Vulkan (FPS)	191.4		190.1
Normalized	100%		99.32%
Standard Deviation	0.2%		0.6%
GravityMark - 1920 x 1080 - Vulkan Ray-Tracing (FPS)	203.2		212.8
Normalized	95.49%		100%
Standard Deviation	0.4%		0.4%
GravityMark - 2560 x 1440 - Vulkan Ray-Tracing (FPS)	166.7		165.9
Normalized	100%		99.52%
Standard Deviation	0.2%		0.3%
GravityMark - 1920 x 1080 - W.D.1 (FPS)	211.1		211.8
Normalized	99.67%		100%
Standard Deviation	0%		0.1%
GravityMark - 2560 x 1440 - W.D.1 (FPS)	180.3		181.3
Normalized	99.45%		100%
Standard Deviation	0.1%		0.1%
GravityMark - 1920 x 1080 - W.D.1.R.T (FPS)	193.9		194.3
Normalized	99.79%		100%
Standard Deviation	0%		0%
GravityMark - 2560 x 1440 - W.D.1.R.T (FPS)	161.3		161.9
Normalized	99.63%		100%
Standard Deviation	0.1%		0.1%
Unigine Superposition - 1920 x 1080 - Fullscreen - Ultra - D3D11 (FPS)	65.3		63.5
Normalized	100%		97.24%
Standard Deviation	10.7%		0.6%
Unigine Superposition - 2560 x 1440 - Fullscreen - Ultra - D3D11 (FPS)	37.1		44.7
Normalized	83%		100%
Standard Deviation	0.2%		39.6%
Unvanquished - 1920 x 1080 - Ultra (FPS)	368.3		286.2
Normalized	100%		77.71%
Standard Deviation	2.1%		0.1%

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Unvanquished - 2560 x 1440 - Ultra (FPS)	**369.5**	**318.3**
Normalized	100%	86.14%
Standard Deviation	1.6%	0.6%
Xonotic - 1920 x 1080 - Ultimate (FPS)	**369.1003772**	**304.0004150**
Normalized	100%	82.36%
Standard Deviation	0.8%	0.3%
Xonotic - 2560 x 1440 - Ultimate (FPS)	**372.9918269**	**317.9702137**
Normalized	100%	85.25%
Standard Deviation	0.4%	0.5%
yquake2 - Vulkan - On - On - 1920 x 1080 (FPS)	**162.5**	**1538**
Normalized	10.57%	100%
Standard Deviation	0.2%	1.4%
yquake2 - Vulkan - On - On - 2560 x 1440 (FPS)	**162.9**	**1028**
Normalized	15.85%	100%
Standard Deviation	0.1%	0.3%
yquake2 - Software CPU - On - On - 1920 x 1080 (FPS)	**157.0**	**117.6**
Normalized	100%	74.9%
Standard Deviation	0.6%	0.2%
yquake2 - Software CPU - On - On - 2560 x 1440 (FPS)	**101.4**	**71.4**
Normalized	100%	70.41%
Standard Deviation	0.3%	0.1%
yquake2 - S.C.C.L - On - On - 1920 x 1080 (FPS)	**152.3**	**110.0**
Normalized	100%	72.23%
Standard Deviation	1.6%	0.1%
yquake2 - S.C.C.L - On - On - 2560 x 1440 (FPS)	**98.2**	**67.9**
Normalized	100%	69.14%
Standard Deviation	1.5%	0.4%
ParaView - Many Spheres - 1920 x 1080 (Frames / Sec)	52.92	**53.28**
Normalized	99.32%	100%
Standard Deviation	0.3%	0.2%
ParaView - Many Spheres - 1920 x 1080 (MiPolys / Sec)	5306	**5342**
Normalized	99.33%	100%
Standard Deviation	0.3%	0.2%
ParaView - Many Spheres - 2560 x 1440 (Frames / Sec)	52.89	**52.42**
Normalized	99.47%	98.59%
Standard Deviation	0.1%	0.2%
ParaView - Many Spheres - 2560 x 1440 (MiPolys / Sec)	5303	**5255**
Normalized	99.48%	98.59%
Standard Deviation	0.1%	0.2%
ParaView - Wavelet Volume - 1920 x 1080 (Frames / Sec)	164.43	**60.18**
Normalized	99.33%	36.35%
Standard Deviation	0.3%	0%

ParaView - Wavelet Volume - 1920 x 1080 (MiVoxels / Sec)	2631	**962.837**
Normalized	99.33%	36.35%
Standard Deviation	0.3%	0%
ParaView - Wavelet Volume - 2560 x 1440 (Frames / Sec)	**164.75**	165.48
Normalized	99.48%	99.92%
Standard Deviation	0.1%	0%
ParaView - Wavelet Volume - 2560 x 1440 (MiVoxels / Sec)	**2636**	2648
Normalized	99.48%	99.92%
Standard Deviation	0.1%	0%
ParaView - Wavelet Contour - 1920 x 1080 (Frames / Sec)	**163.69**	**60.20**
Normalized	100%	36.78%
Standard Deviation	1.6%	0%
ParaView - Wavelet Contour - 1920 x 1080 (MiPolys / Sec)	**1706**	**627.337**
Normalized	100%	36.78%
Standard Deviation	1.6%	0%
ParaView - Wavelet Contour - 2560 x 1440 (Frames / Sec)	**164.52**	164.00
Normalized	100%	99.68%
Standard Deviation	0.5%	1.7%
ParaView - Wavelet Contour - 2560 x 1440 (MiPolys / Sec)	**1714**	1709
Normalized	100%	99.68%
Standard Deviation	0.5%	1.7%
Intel Memory Latency Checker - Idle Latency (ns)	**88.9**	**85.8**
Normalized	96.51%	100%
Standard Deviation	0.6%	0.1%
Intel Memory Latency Checker - Max Bandwidth - All Reads (MB/s)	**70842**	**37790**
Normalized	100%	53.34%
Standard Deviation	0.2%	0.1%
Intel Memory Latency Checker - Max Bandwidth - 3:1 Reads-Writes (MB/s)	**68390**	**34140**
Normalized	100%	49.92%
Standard Deviation	0.1%	0.1%
Intel Memory Latency Checker - Max Bandwidth - 2:1 Reads-Writes (MB/s)	**67999**	**34012**
Normalized	100%	50.02%
Standard Deviation	0.3%	0.2%
Intel Memory Latency Checker - Max Bandwidth - 1:1 Reads-Writes (MB/s)	**66137**	**34715**
Normalized	100%	52.49%
Standard Deviation	0.2%	0%
Intel Memory Latency Checker - Max Bandwidth - Stream-Triad Like (MB/s)	**67384**	**35239**
Normalized	100%	52.3%
Standard Deviation	0.2%	0%

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Intel Memory Latency Checker - P.I.B - All Reads (MB/s)	**70768**	**37336**
Normalized	100%	52.76%
Standard Deviation	0.4%	0.3%
Intel Memory Latency Checker - P.I.B - 3:1 Reads-Writes (MB/s)	**67833**	**33997**
Normalized	100%	50.12%
Standard Deviation	0.2%	0.1%
Intel Memory Latency Checker - P.I.B - 2:1 Reads-Writes (MB/s)	**67599**	**33914**
Normalized	100%	50.17%
Standard Deviation	0.3%	0.4%
Intel Memory Latency Checker - P.I.B - 1:1 Reads-Writes (MB/s)	**65865**	**34710**
Normalized	100%	52.7%
Standard Deviation	0.3%	0.2%
Intel Memory Latency Checker - P.I.B - Stream-Triad Like (MB/s)	**67326**	**35135**
Normalized	100%	52.19%
Standard Deviation	0.1%	0.3%
OSBench - Create Files (us/Event)	**146.382085**	**263.688875**
Normalized	100%	55.51%
Standard Deviation	6.5%	4.7%
OSBench - Create Threads (us/Event)	**17.493**	**23.519**
Normalized	100%	74.38%
Standard Deviation	2.1%	0.2%
OSBench - Launch Programs (us/Event)	**1226**	**2435**
Normalized	100%	50.35%
Standard Deviation	2.4%	0.7%
OSBench - Memory Allocations (Ns/Event)	**33.2841**	**97.8064**
Normalized	100%	34.03%
Standard Deviation	0.3%	1%
John The Ripper - Blowfish (Real C/S)	**34622**	**16636**
Normalized	100%	48.05%
Standard Deviation	0.1%	0.9%
John The Ripper - MD5 (Real C/S)	**1468333**	**958695**
Normalized	100%	65.29%
Standard Deviation	0.1%	0.9%
dav1d - Chimera 1080p (FPS)	**924.47**	**645.96**
Normalized	100%	69.87%
Standard Deviation	0.3%	0.2%
dav1d - Summer Nature 4K (FPS)	**379.78**	**207.37**
Normalized	100%	54.6%
Standard Deviation	0.2%	0.4%
dav1d - S.N.1 (FPS)	**1318**	**872.70**
Normalized	100%	66.21%
Standard Deviation	0.1%	1.1%
dav1d - C.1.1.b (FPS)	**698.13**	**532.47**
Normalized	100%	76.27%
Standard Deviation	0.1%	0.2%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	**3.956**	**2.259**
Normalized	100%	57.1%
Standard Deviation	0.7%	0.3%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**51.849**	**26.564**

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Normalized	100%	51.23%
Standard Deviation	0.3%	0.2%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**140.741**	**81.370**
Normalized	100%	57.82%
Standard Deviation	0.1%	0.5%
SVT-AV1 - Preset 13 - Bosphorus 4K (FPS)	**148.695**	**86.468**
Normalized	100%	58.15%
Standard Deviation	0.5%	0.6%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**12.106**	**7.559**
Normalized	100%	62.44%
Standard Deviation	0.4%	0.4%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	**155.209**	**82.265**
Normalized	100%	53%
Standard Deviation	0.6%	0%
SVT-AV1 - Preset 12 - Bosphorus 1080p	**567.780**	**348.004**
Normalized	100%	61.29%
Standard Deviation	1.1%	0.6%
SVT-AV1 - Preset 13 - Bosphorus 1080p	**580.384**	**367.782**
Normalized	100%	63.37%
Standard Deviation	0.7%	2%
x264 - Bosphorus 4K (FPS)	**54.13**	**27.70**
Normalized	100%	51.17%
Standard Deviation	0.4%	0.7%
x264 - Bosphorus 1080p (FPS)	**224.94**	**117.80**
Normalized	100%	52.37%
Standard Deviation	0.2%	0.8%
7-Zip Compression - Compression Rating (MIPS)	**135698**	**78477**
Normalized	100%	57.83%
Standard Deviation	0.5%	0.7%
7-Zip Compression - D.R (MIPS)	**105957**	67640
Normalized	100%	63.84%
Standard Deviation	0.2%	0.1%
Y-Cruncher - 1B (sec)	**25.747**	**46.717**
Normalized	100%	55.11%
Standard Deviation	0.2%	0.1%
Cpuminer-Opt - Magi (kH/s)	**594.70**	**260.80**
Normalized	100%	43.85%
Standard Deviation	0.3%	0.1%
Cpuminer-Opt - x25x (kH/s)	**887.60**	**357.31**
Normalized	100%	40.26%
Standard Deviation	0.1%	0.8%
Cpuminer-Opt - scrypt (kH/s)	**263.57**	**143.39**
Normalized	100%	54.4%
Standard Deviation	0%	0.4%
Cpuminer-Opt - Deepcoin (kH/s)	**15137**	**8063**
Normalized	100%	53.26%
Standard Deviation	0.1%	0.5%
Cpuminer-Opt - Ringcoin (kH/s)	**4140**	**1867**
Normalized	100%	45.09%
Standard Deviation	0.2%	0.5%
Cpuminer-Opt - Blake-2 S (kH/s)	**670113**	**336910**
Normalized	100%	50.28%
Standard Deviation	0.1%	0.4%
Cpuminer-Opt - Garlicoin (kH/s)	**4697**	**2292**

Normalized	100%	48.8%
Standard Deviation	0.3%	0.4%
Cpuminer-Opt - Skeincoin (kH/s)	**73427**	**36550**
Normalized	100%	49.78%
Standard Deviation	0.1%	0.7%
Cpuminer-Opt - Myriad-Groestl (kH/s)	**19527**	**13610**
Normalized	100%	69.7%
Standard Deviation	0.6%	0.2%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	**46163**	**24120**
Normalized	100%	52.25%
Standard Deviation	0.3%	0.3%
Cpuminer-Opt - Q.S.2.P (kH/s)	**84160**	**40930**
Normalized	100%	48.63%
Standard Deviation	0.1%	0.2%
Cpuminer-Opt - T.S.2.O (kH/s)	**127857**	**55373**
Normalized	100%	43.31%
Standard Deviation	0.1%	0.2%
ASTC Encoder - Fast (MT/s)	**288.5535**	**147.4032**
Normalized	100%	51.08%
Standard Deviation	0.2%	0.3%
ASTC Encoder - Medium (MT/s)	**107.6221**	**51.0320**
Normalized	100%	47.42%
Standard Deviation	0.5%	0.2%
ASTC Encoder - Thorough (MT/s)	**13.9588**	**5.9497**
Normalized	100%	42.62%
Standard Deviation	0.4%	0.1%
ASTC Encoder - Exhaustive (MT/s)	**1.4464**	**0.6660**
Normalized	100%	46.05%
Standard Deviation	0.1%	0.2%
PostgreSQL - 1000 - 1 - Read Only (TPS)	25761	
Standard Deviation	0.3%	
PostgreSQL - 1000 - 1 - Read Only - Average Latency (ms)	0.039	
Standard Deviation	0%	
PostgreSQL - 1000 - 1 - Read Write (TPS)	3635	
Standard Deviation	0.4%	
PostgreSQL - 1000 - 1 - Read Write - Average Latency (ms)	0.275	
Standard Deviation	0.4%	
Blender - BMW27 - CPU-Only (sec)	**78.03**	**186.57**
Normalized	100%	41.82%
Standard Deviation	0.3%	0.1%
Blender - BMW27 - NVIDIA CUDA (sec)	**17.90**	**18.63**
Normalized	100%	96.08%
Standard Deviation	0.2%	0.2%
Blender - BMW27 - NVIDIA OptiX (sec)	**9.69**	**9.87**
Normalized	100%	98.18%
Standard Deviation	1.3%	3.2%
Blender - Classroom - CPU-Only (sec)	**215.59**	**482.87**
Normalized	100%	44.65%
Standard Deviation	0.5%	0.4%
Blender - Fishy Cat - CPU-Only (sec)	**103.63**	**220.91**
Normalized	100%	46.91%
Standard Deviation	0.4%	0.5%

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Blender - Barbershop - CPU-Only (sec)	**835.86**	**1796**
Normalized	100%	46.53%
Standard Deviation	0.1%	1.1%
Blender - Classroom - NVIDIA CUDA (sec)	**36.30**	**36.05**
Normalized	99.31%	100%
Standard Deviation	0.1%	0.2%
Blender - Fishy Cat - NVIDIA CUDA (sec)	**37.24**	**39.19**
Normalized	100%	95.02%
Standard Deviation	0.2%	0.1%
Blender - Barbershop - NVIDIA CUDA (sec)	**153.30**	**158.69**
Normalized	100%	96.6%
Standard Deviation	0.1%	0%
Blender - Classroom - NVIDIA OptiX (sec)	**24.44**	**24.45**
Normalized	100%	99.96%
Standard Deviation	0.5%	0.3%
Blender - Fishy Cat - NVIDIA OptiX (sec)	**17.46**	**18.02**
Normalized	100%	96.89%
Standard Deviation	0.7%	2.4%
Blender - Barbershop - NVIDIA OptiX (sec)	**87.01**	**88.91**
Normalized	100%	97.86%
Standard Deviation	0.4%	0.2%
Blender - Pabellon Barcelona - CPU-Only	**253.21**	**556.93**
Normalized	100%	45.47%
Standard Deviation	1%	0.1%
Blender - Pabellon Barcelona - NVIDIA CUDA (sec)	**90.30**	**89.31**
Normalized	98.9%	100%
Standard Deviation	0%	0.3%
Blender - Pabellon Barcelona - NVIDIA OptiX (sec)	**26.81**	**26.89**
Normalized	100%	99.7%
Standard Deviation	0.2%	0.1%
PyPerformance - go (Milliseconds)	**140**	**196**
Normalized	100%	71.43%
Standard Deviation	0.4%	
PyPerformance - 2to3 (Milliseconds)	**229**	**319**
Normalized	100%	71.79%
PyPerformance - chaos (Milliseconds)	**68.7**	**102**
Normalized	100%	67.35%
Standard Deviation	0.1%	
PyPerformance - float (Milliseconds)	**69.7**	**103**
Normalized	100%	67.67%
Standard Deviation	0.1%	
PyPerformance - nbody (Milliseconds)	**73.3**	**118**
Normalized	100%	62.12%
Standard Deviation	0.4%	
PyPerformance - pathlib (Milliseconds)	**72.0**	**122**
Normalized	100%	59.02%
Standard Deviation	1%	
PyPerformance - raytrace (Milliseconds)	**281**	**408**
Normalized	100%	68.87%
Standard Deviation		0.4%
PyPerformance - json_loads (Milliseconds)	**17.1**	**23.2**
Normalized	100%	73.71%
Standard Deviation	0.3%	0.2%

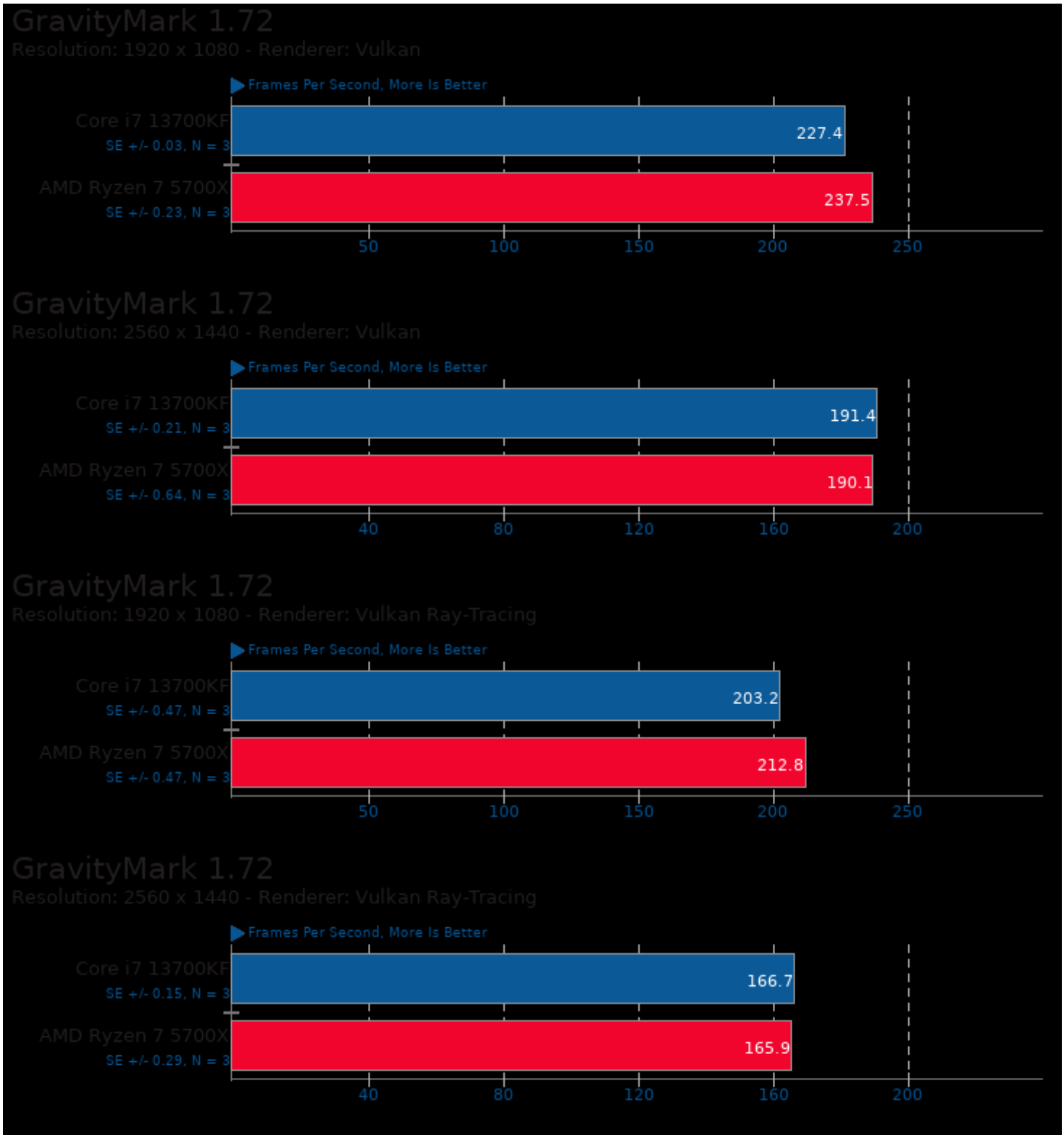
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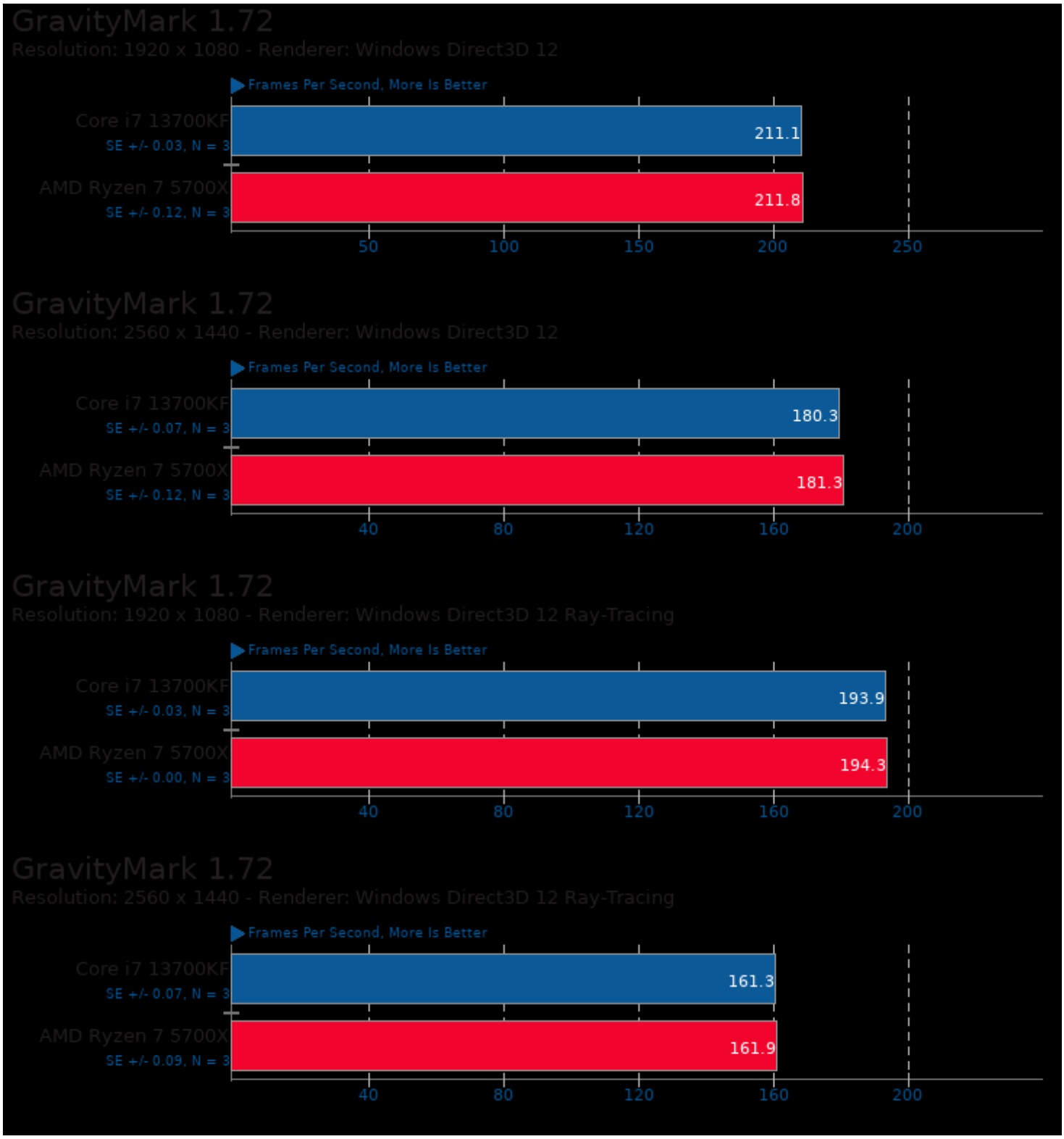
PyPerformance - crypto_pyaes	**67.4**	**101**
Normalized	100%	66.73%
Standard Deviation	0%	
PyPerformance - regex_compile	**106**	**156**
Normalized	100%	67.95%
PyPerformance - python_startup	**22.8**	**30.3**
Normalized	100%	75.25%
Standard Deviation	0.3%	0.2%
PyPerformance - django_template (Milliseconds)	**33.3**	**47.2**
Normalized	100%	70.55%
Standard Deviation	0.5%	0.2%
PyPerformance - pickle_pure_python (Milliseconds)	**269**	**399**
Normalized	100%	67.42%
Selenium - ARES-6 - Firefox (ms)	**19.45**	**26.07**
Normalized	100%	74.61%
Standard Deviation	0%	0.3%
Selenium - Kraken - Firefox (ms)	**565.9**	663.9
Normalized	100%	85.24%
Standard Deviation	1%	0.5%
Selenium - Octane - Firefox (Geometric	**47147**	36562
Normalized	100%	77.55%
Standard Deviation	2.1%	1.4%
Selenium - Jetstream - Firefox (Score)	**358.68**	**283.12**
Normalized	100%	78.93%
Standard Deviation	0.3%	0.3%
Selenium - CanvasMark - Firefox (Score)	**34304**	**31878**
Normalized	100%	92.93%
Standard Deviation	0.7%	1.6%
Selenium - MotionMark - Firefox (Score)	**1526**	**1019**
Normalized	100%	66.79%
Standard Deviation	0.9%	2.5%
Selenium - Jetstream 2 - Firefox (Score)	**187.074**	**141.316**
Normalized	100%	75.54%
Standard Deviation	1.1%	0.6%
Selenium - Maze Solver - Firefox (sec)	**13**	**14**
Normalized	100%	92.86%
Selenium - Speedometer - Firefox (Runs/min)	**229.8**	**172**
Normalized	100%	74.85%
Standard Deviation	0.1%	1.7%
Selenium - PSPDFKit WASM - Firefox (Score)	**2263**	**2472**
Normalized	100%	91.55%
Standard Deviation	0.2%	0.2%
Selenium - W.i - Firefox (ms)	**16.5**	21.8
Normalized	100%	75.69%
Standard Deviation	2.3%	0.3%
Selenium - W.c - Firefox (ms)	**254.4**	**296.4**
Normalized	100%	85.83%
Standard Deviation	0.6%	0.5%
Git - T.T.C.C.G.C (sec)	**48.411**	**53.122**
Normalized	100%	91.13%
Standard Deviation	0.2%	0.1%
Tesseract OCR - T.T.O.7.I (sec)	**50.474**	**65.946**
Normalized	100%	76.54%

Standard Deviation	0.3%	0.2%
Chaos Group V-RAY - NVIDIA RTX GPU (vrays)	1769	1734
Normalized	100%	98.02%
Standard Deviation	0.1%	0.5%
Chaos Group V-RAY - NVIDIA CUDA GPU (vpaths)	1389	1418
Normalized	97.95%	100%
Standard Deviation	0.1%	
Chaos Group V-RAY - CPU (vsamples)	20420	9307
Normalized	100%	45.58%
Standard Deviation	0.3%	0.9%
GravityMark - 1920 x 1080 - OpenGL (FPS)		214.6
Standard Deviation		0.2%
yquake2 - Vulkan - Off - On - 1920 x 1080 (FPS)		1599
Standard Deviation		1.3%
yquake2 - Vulkan - Off - On - 2560 x 1440 (FPS)		1063
Standard Deviation		0.4%
yquake2 - Vulkan - On - Off - 1920 x 1080 (FPS)		1861
Standard Deviation		0.4%
yquake2 - Vulkan - On - Off - 2560 x 1440 (FPS)		1876
Standard Deviation		2.7%
yquake2 - Vulkan - Off - Off - 1920 x 1080 (FPS)		1876
Standard Deviation		2.5%
yquake2 - Vulkan - Off - Off - 2560 x 1440 (FPS)		1902
Standard Deviation		1.4%
yquake2 - Software CPU - Off - On - 1920 x 1080 (FPS)		120.5
Standard Deviation		0.1%
yquake2 - Software CPU - Off - On - 2560 x 1440 (FPS)		73.4
Standard Deviation		0.1%
yquake2 - Software CPU - On - Off - 1920 x 1080 (FPS)		117.3
Standard Deviation		0.1%
yquake2 - Software CPU - On - Off - 2560 x 1440 (FPS)		71.4
Standard Deviation		0.2%
yquake2 - Software CPU - Off - Off - 1920 x 1080 (FPS)		120.5
Standard Deviation		0.1%
yquake2 - Software CPU - Off - Off - 2560 x 1440 (FPS)		73.1
Standard Deviation		0.3%

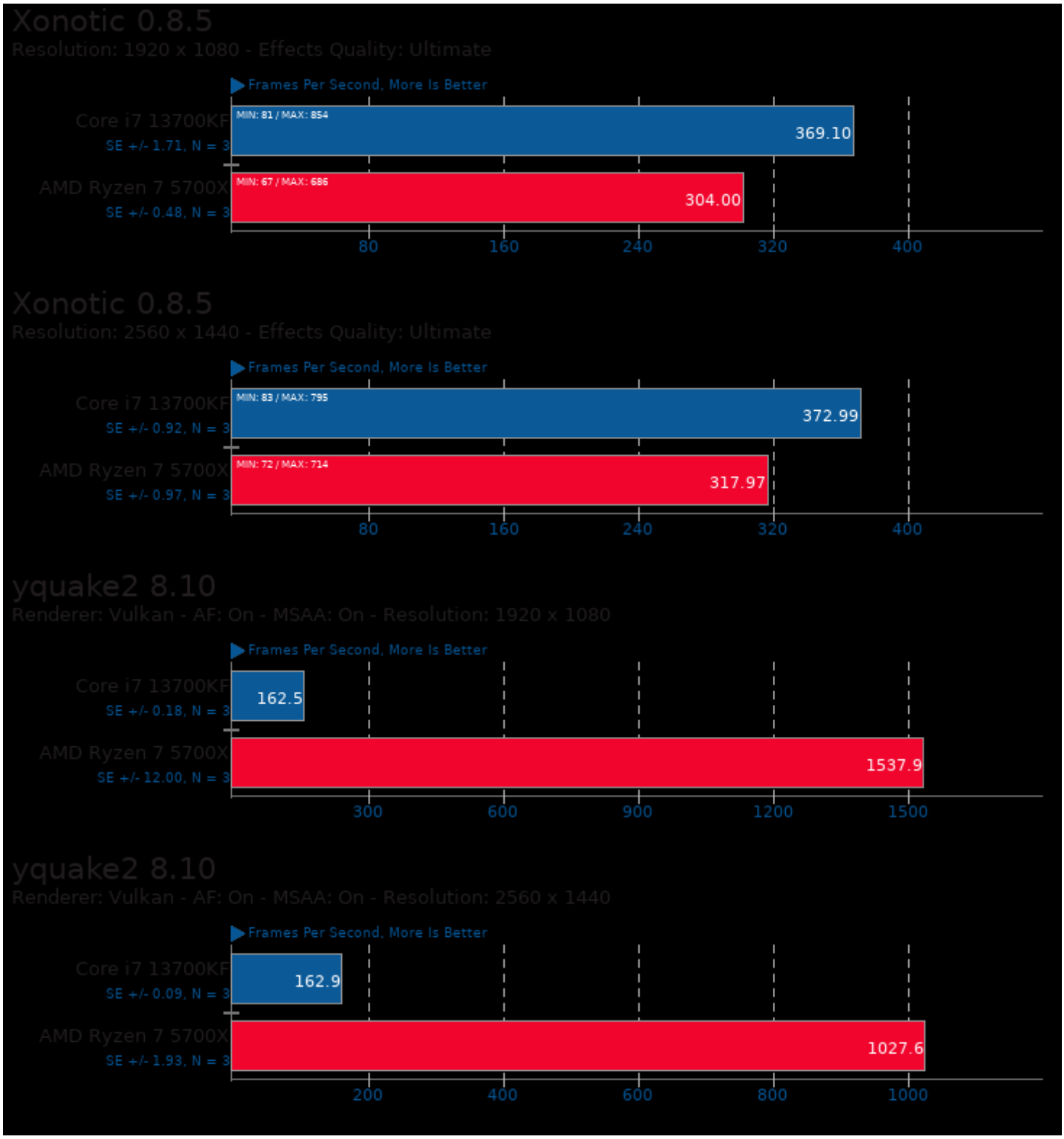
yquake2 - S.C.C.L - Off - On - 1920 x 1080 (FPS)	112.1
Standard Deviation	1.1%
yquake2 - S.C.C.L - Off - On - 2560 x 1440 (FPS)	69.4
Standard Deviation	0.2%
yquake2 - S.C.C.L - On - Off - 1920 x 1080 (FPS)	110.3
Standard Deviation	0.1%
yquake2 - S.C.C.L - On - Off - 2560 x 1440 (FPS)	67.8
Standard Deviation	0.1%
yquake2 - S.C.C.L - Off - Off - 1920 x 1080 (FPS)	112.5
Standard Deviation	0.6%
yquake2 - S.C.C.L - Off - Off - 2560 x 1440 (FPS)	69.2
Standard Deviation	0.1%
PostgreSQL - 1000 - 1 - Read Only (TPS)	9300
Standard Deviation	0.2%
PostgreSQL - 1000 - 1 - Read Only - Average Latency (ms)	0.108
Standard Deviation	0.5%
PostgreSQL - 1000 - 1 - Read Write (TPS)	1572
Standard Deviation	0.1%
PostgreSQL - 1000 - 1 - Read Write - Average Latency (ms)	0.636
Standard Deviation	0.2%
Unigine Superposition - 1920 x 1080 - Fullscreen - Ultra - OpenGL (FPS)	57.3
Standard Deviation	0.1%
Unigine Superposition - 2560 x 1440 - Fullscreen - Ultra - OpenGL (FPS)	33.7
Standard Deviation	0%
Xonotic - 1920 x 1080 - Low (FPS)	516.2349848
Standard Deviation	0%
Xonotic - 2560 x 1440 - Low (FPS)	515.0152671
Standard Deviation	1.2%
Xonotic - 1920 x 1080 - High (FPS)	419.8946899
Standard Deviation	0.1%
Xonotic - 2560 x 1440 - High (FPS)	420.6188462
Standard Deviation	0.1%
Xonotic - 1920 x 1080 - Ultra (FPS)	388.6633922
Standard Deviation	0.1%
Xonotic - 2560 x 1440 - Ultra (FPS)	389.8716485
Standard Deviation	0.1%
Y-Cruncher - 500M (sec)	20.265
Standard Deviation	0.3%

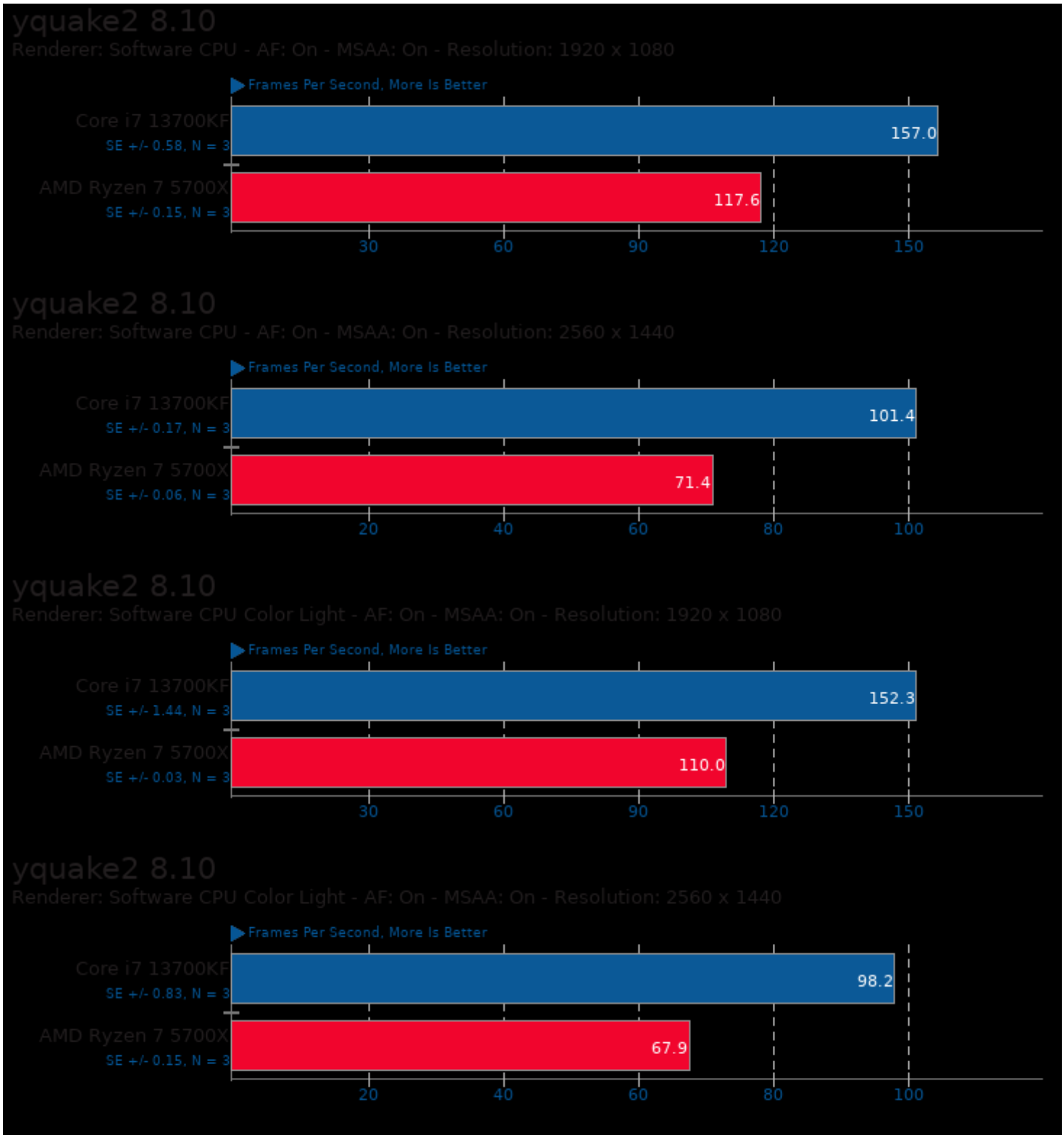

Hashcat 6.2.4
Benchmark: MD5
H/s, More Is Better
Core i7 13700KF
SE +/- 57861587.72, N = 3
40241600000
AMD Ryzen 7 5700X
SE +/- 37843669.66, N = 3
40643500000
9000M
18000M
27000M
36000M
45000M
Hashcat 6.2.4
Benchmark: SHA1
H/s, More Is Better
Core i7 13700KF
SE +/- 59834837.49, N = 3
12682666667
AMD Ryzen 7 5700X
SE +/- 10900509.67, N = 3
12804233333
3000M
6000M
9000M
12000M
15000M
Hashcat 6.2.4
Benchmark: 7-Zip
H/s, More Is Better
AMD Ryzen 7 5700X
SE +/- 1100.00, N = 2
653000
140K
280K
420K
560K
700K
Hashcat 6.2.4
Benchmark: SHA-512
H/s, More Is Better
Core i7 13700KF
SE +/- 8428193.43, N = 3
1838266667
AMD Ryzen 7 5700X
SE +/- 698410.89, N = 3
1863866667
400M
800M
1200M
1600M
2000M
Hashcat 6.2.4
Benchmark: TrueCrypt RIPEMD160 + XTS
H/s, More Is Better
Core i7 13700KF
SE +/- 1775.14, N = 3
482833
AMD Ryzen 7 5700X
SE +/- 1166.67, N = 3
477333
100K
200K
300K
400K
500K

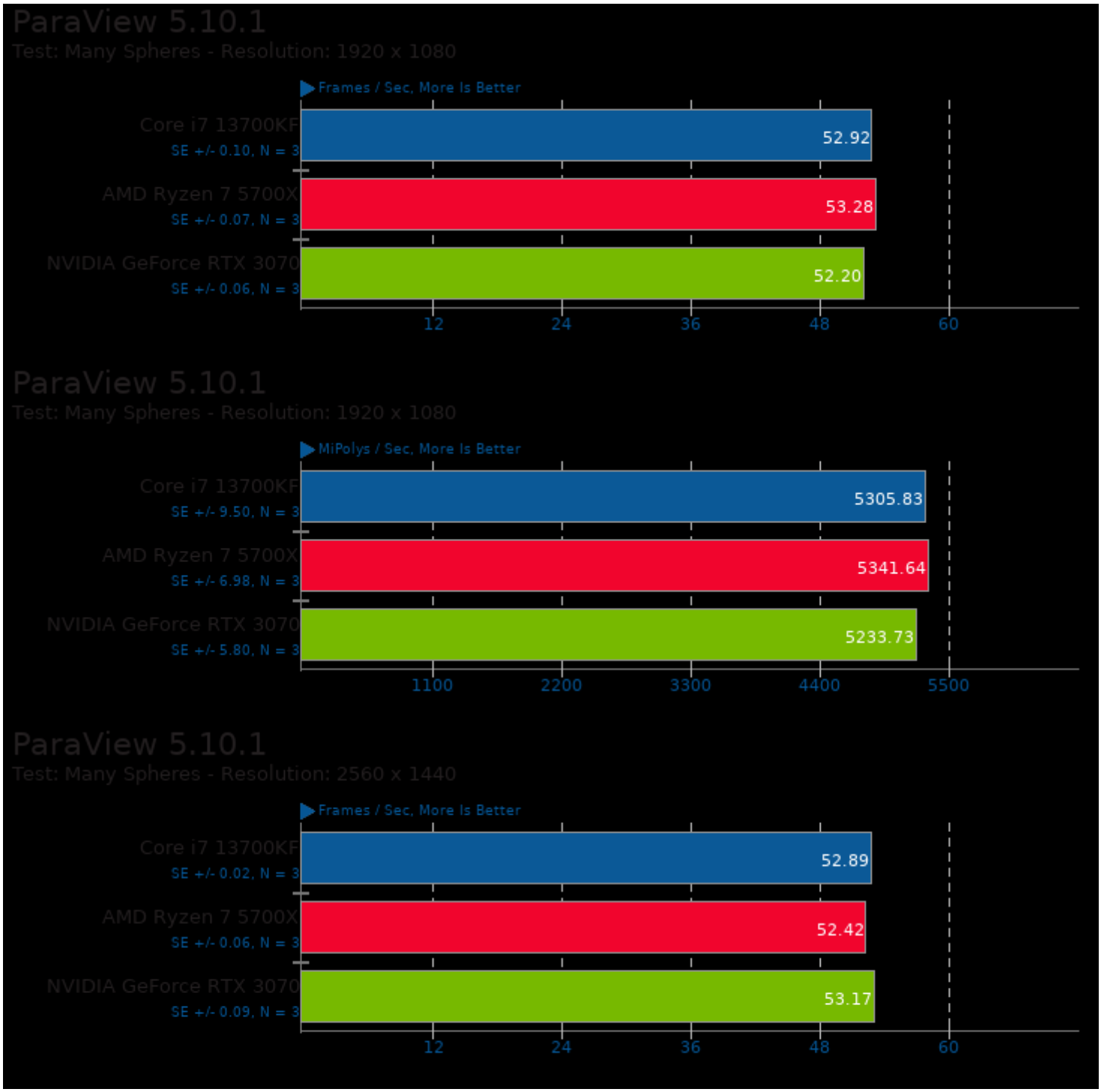

GravityMark 1.72
Resolution: 1920 x 1080 - Renderer: Vulkan
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
227.4
AMD Ryzen 7 5700X
SE +/- 0.23, N = 3
237.5
50
100
150
200
250
GravityMark 1.72
Resolution: 2560 x 1440 - Renderer: Vulkan
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.21, N = 3
191.4
AMD Ryzen 7 5700X
SE +/- 0.64, N = 3
190.1
40
80
120
160
200
GravityMark 1.72
Resolution: 1920 x 1080 - Renderer: Vulkan Ray-Tracing
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.47, N = 3
203.2
AMD Ryzen 7 5700X
SE +/- 0.47, N = 3
212.8
50
100
150
200
250
GravityMark 1.72
Resolution: 2560 x 1440 - Renderer: Vulkan Ray-Tracing
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.15, N = 3
166.7
AMD Ryzen 7 5700X
SE +/- 0.29, N = 3
165.9
40
80
120
160
200

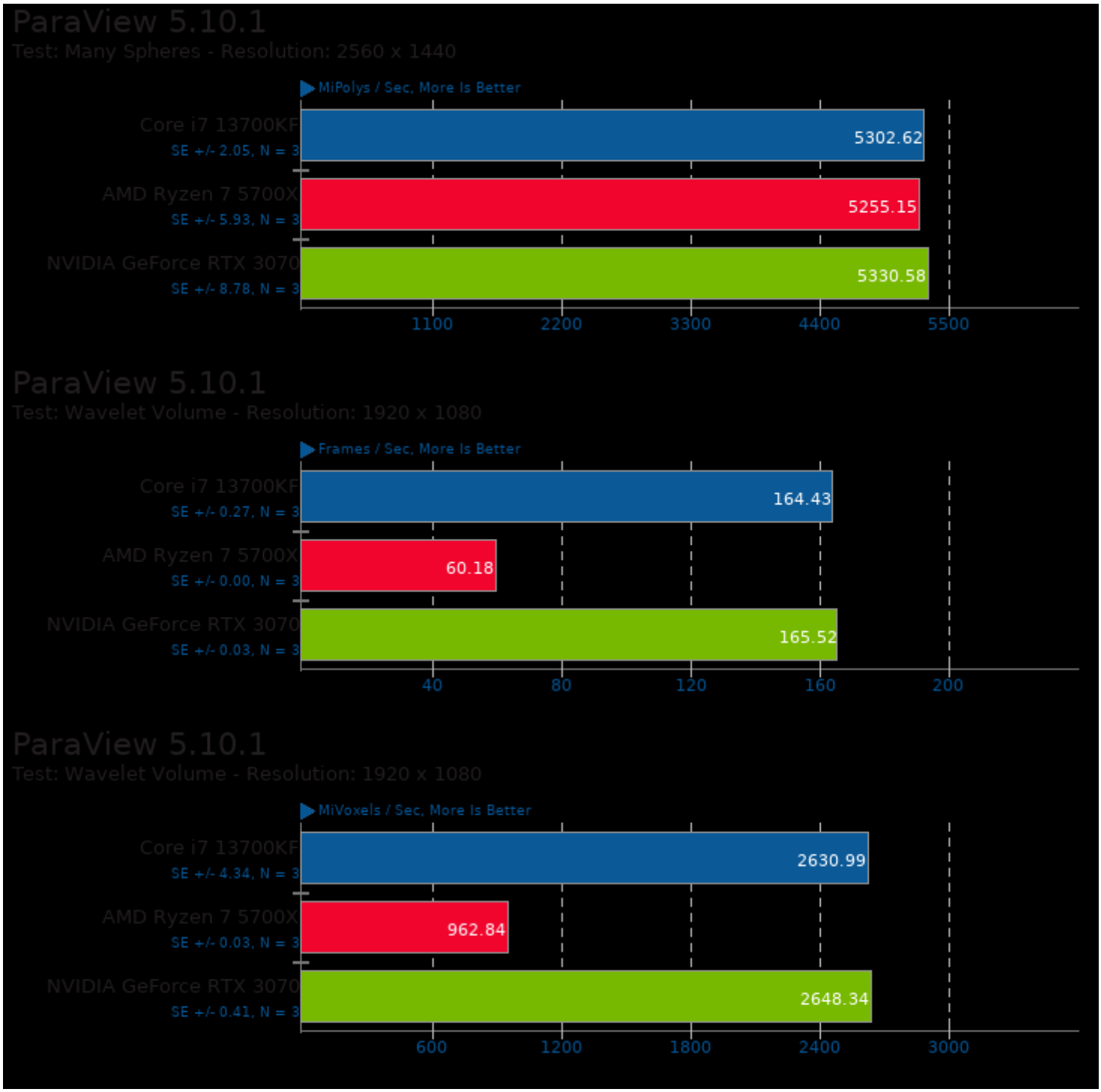

GravityMark 1.72
Resolution: 1920 x 1080 - Renderer: Windows Direct3D 12
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
211.1
AMD Ryzen 7 5700X
SE +/- 0.12, N = 3
211.8
50
100
150
200
250
GravityMark 1.72
Resolution: 2560 x 1440 - Renderer: Windows Direct3D 12
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.07, N = 3
180.3
AMD Ryzen 7 5700X
SE +/- 0.12, N = 3
181.3
40
80
120
160
200
GravityMark 1.72
Resolution: 1920 x 1080 - Renderer: Windows Direct3D 12 Ray-Tracing
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
193.9
AMD Ryzen 7 5700X
SE +/- 0.00, N = 3
194.3
40
80
120
160
200
GravityMark 1.72
Resolution: 2560 x 1440 - Renderer: Windows Direct3D 12 Ray-Tracing
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.07, N = 3
161.3
AMD Ryzen 7 5700X
SE +/- 0.09, N = 3
161.9
40
80
120
160
200

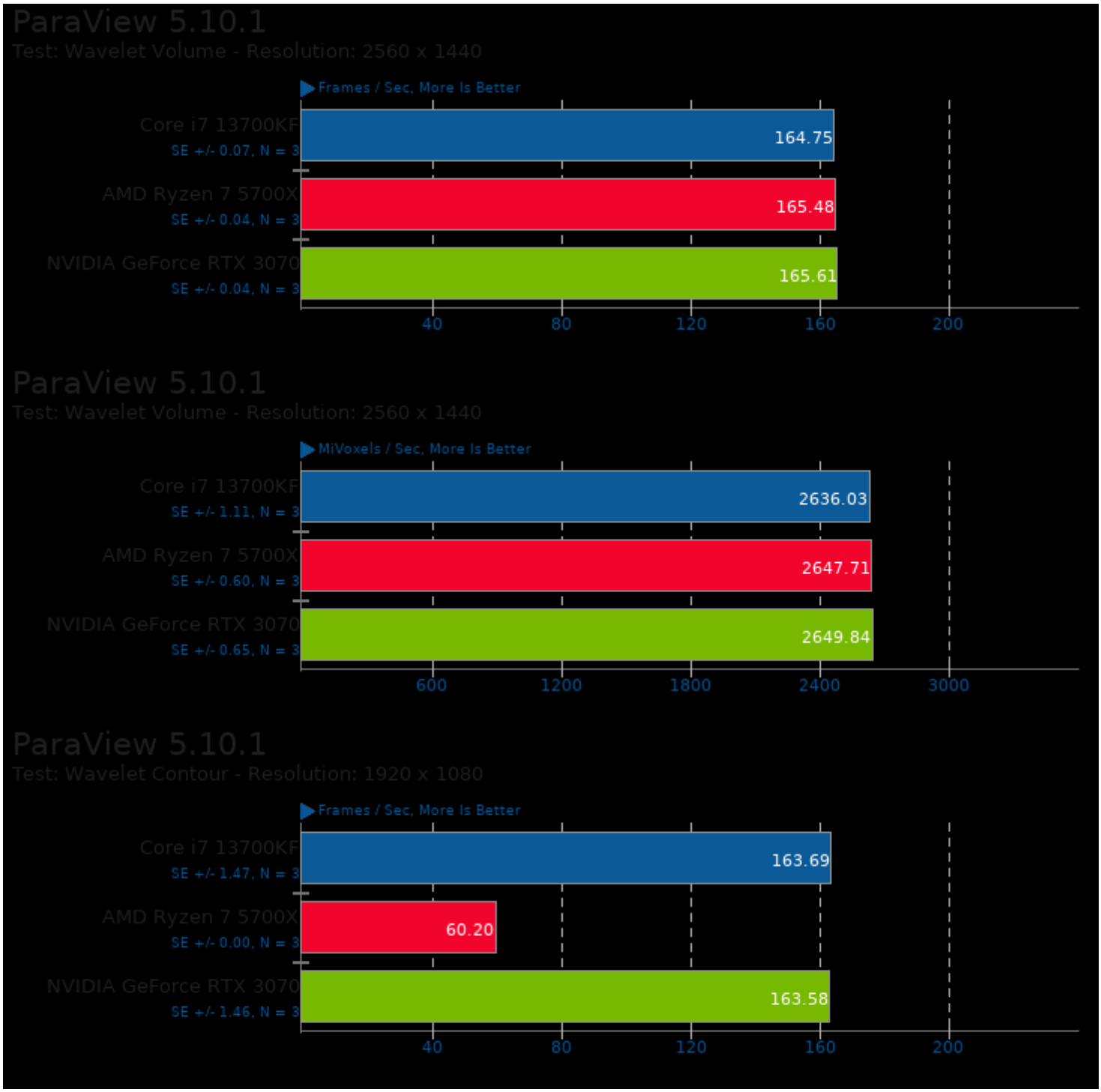

Unigine Superposition 1.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Quality: Ultra - Renderer: D3D11
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 2.32, N = 9
MAX: 109.2
65.3
AMD Ryzen 7 5700X
SE +/- 0.22, N = 3
MAX: 81.4
63.5
15
30
45
60
75
Unigine Superposition 1.0
Resolution: 2560 x 1440 - Mode: Fullscreen - Quality: Ultra - Renderer: D3D11
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
MAX: 43.2
37.1
AMD Ryzen 7 5700X
SE +/- 5.11, N = 12
MIN: 42.8 / MAX: 109.8
44.7
10
20
30
40
50
Unvanquished 0.53
Resolution: 1920 x 1080 - Effects Quality: Ultra
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 3.79, N = 4
368.3
AMD Ryzen 7 5700X
SE +/- 0.12, N = 3
286.2
80
160
240
320
400
Unvanquished 0.53
Resolution: 2560 x 1440 - Effects Quality: Ultra
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 3.47, N = 3
369.5
AMD Ryzen 7 5700X
SE +/- 1.05, N = 3
318.3
80
160
240
320
400

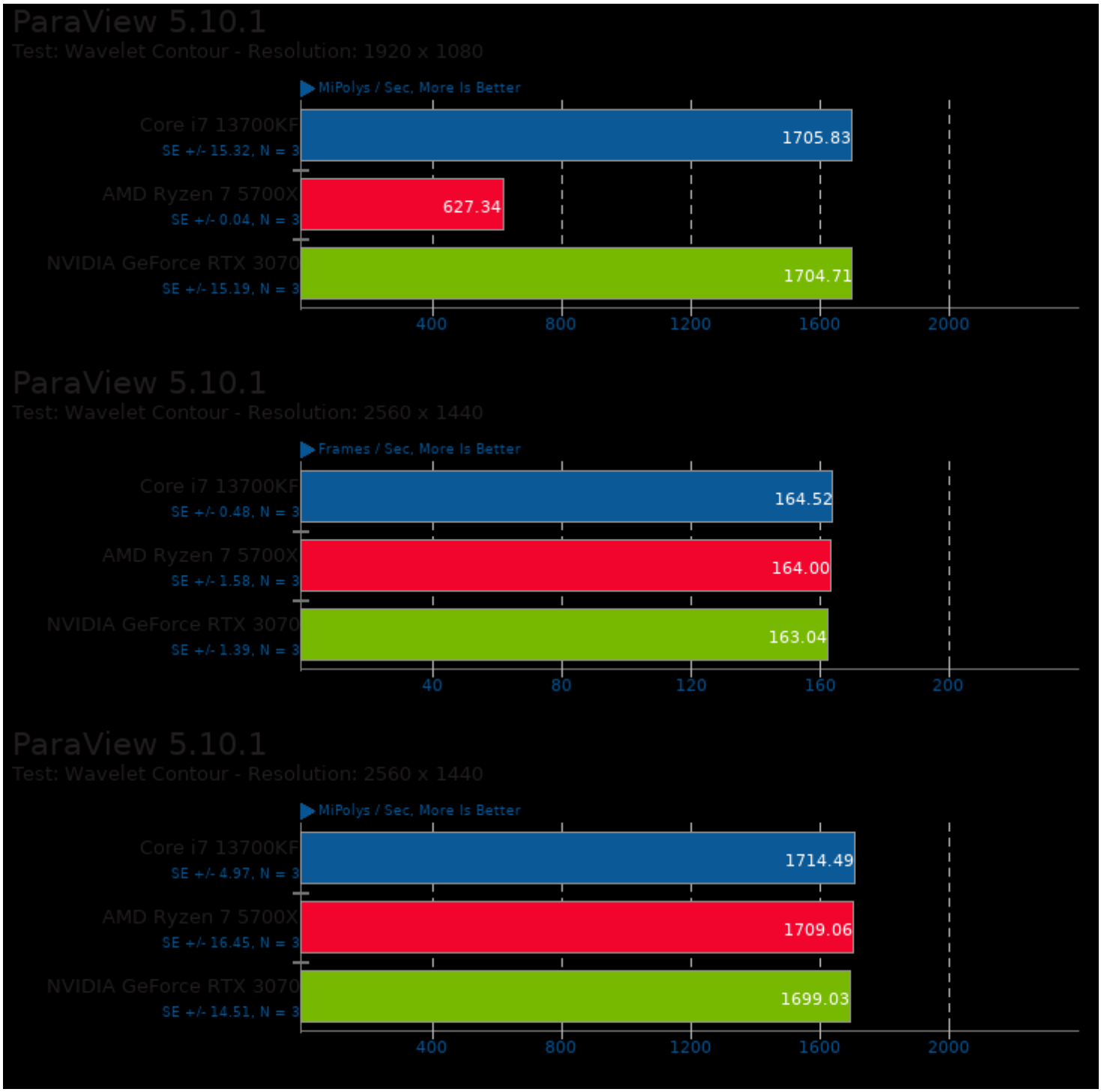

Xonotic 0.8.5
Resolution: 1920 x 1080 - Effects Quality: Ultimate
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 1.71, N = 3
MIN: 81 / MAX: 854
369.10
AMD Ryzen 7 5700X
SE +/- 0.48, N = 3
MIN: 67 / MAX: 686
304.00
80
160
240
320
400
Xonotic 0.8.5
Resolution: 2560 x 1440 - Effects Quality: Ultimate
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.92, N = 3
MIN: 83 / MAX: 795
372.99
AMD Ryzen 7 5700X
SE +/- 0.97, N = 3
MIN: 72 / MAX: 714
317.97
80
160
240
320
400
yquake2 8.10
Renderer: Vulkan - AF: On - MSAA: On - Resolution: 1920 x 1080
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.18, N = 3
162.5
AMD Ryzen 7 5700X
SE +/- 12.00, N = 3
1537.9
300
600
900
1200
1500
yquake2 8.10
Renderer: Vulkan - AF: On - MSAA: On - Resolution: 2560 x 1440
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.09, N = 3
162.9
AMD Ryzen 7 5700X
SE +/- 1.93, N = 3
1027.6
200
400
600
800
1000


yquake2 8.10
Renderer: Software CPU - AF: On - MSAA: On - Resolution: 1920 x 1080
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.58, N = 3
157.0
AMD Ryzen 7 5700X
SE +/- 0.15, N = 3
117.6
30
60
90
120
150
yquake2 8.10
Renderer: Software CPU - AF: On - MSAA: On - Resolution: 2560 x 1440
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.17, N = 3
101.4
AMD Ryzen 7 5700X
SE +/- 0.06, N = 3
71.4
20
40
60
80
100
yquake2 8.10
Renderer: Software CPU Color Light - AF: On - MSAA: On - Resolution: 1920 x 1080
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 1.44, N = 3
152.3
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
110.0
30
60
90
120
150
yquake2 8.10
Renderer: Software CPU Color Light - AF: On - MSAA: On - Resolution: 2560 x 1440
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.83, N = 3
98.2
AMD Ryzen 7 5700X
SE +/- 0.15, N = 3
67.9
20
40
60
80
100

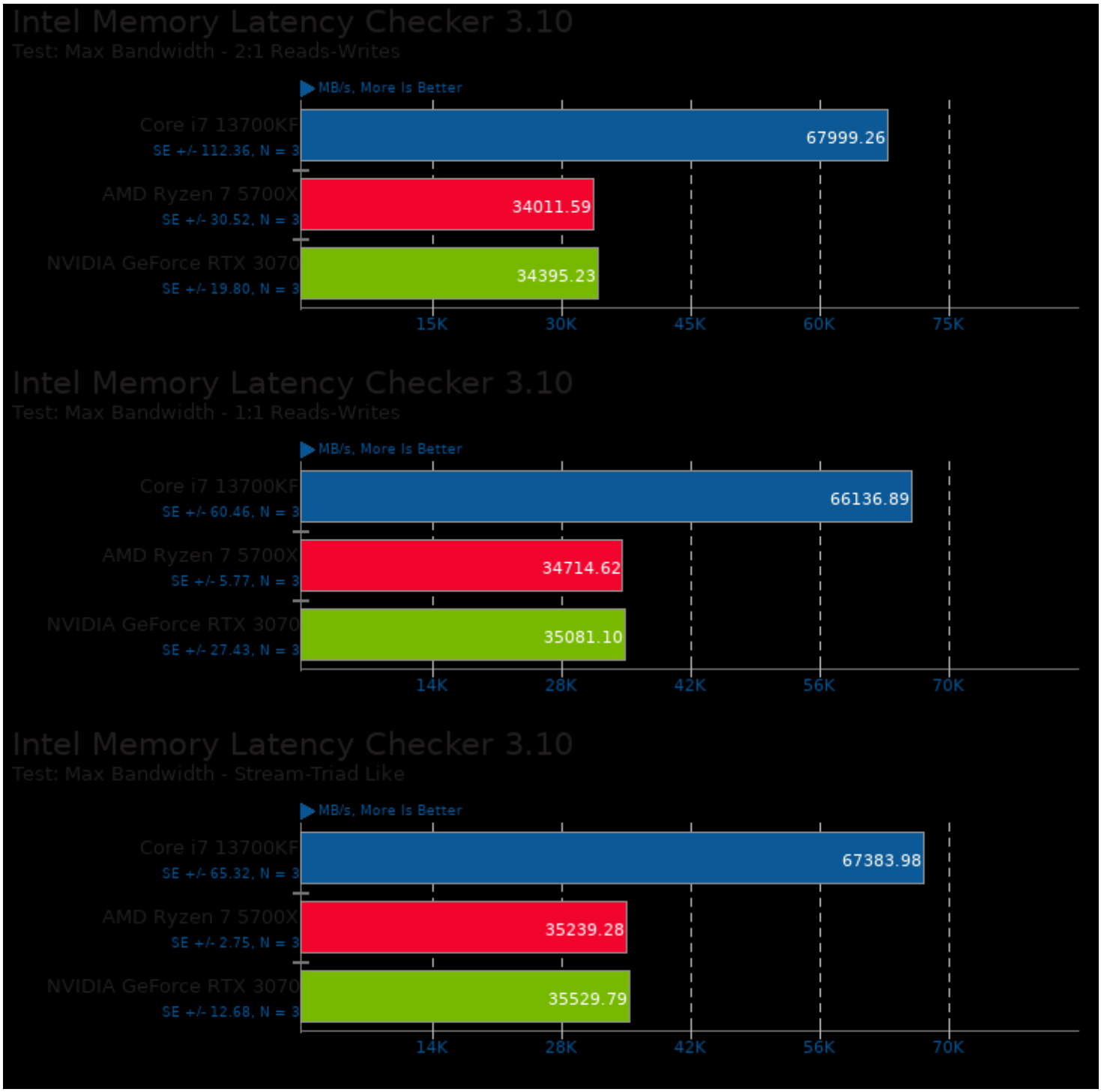

ParaView 5.10.1
Test: Many Spheres - Resolution: 1920 x 1080
Frames / Sec, More Is Better
Core i7 13700KF
SE +/- 0.10, N = 3
52.92
AMD Ryzen 7 5700X
SE +/- 0.07, N = 3
53.28
NVIDIA GeForce RTX 3070
SE +/- 0.06, N = 3
52.20
12
24
36
48
60
ParaView 5.10.1
Test: Many Spheres - Resolution: 1920 x 1080
MiPolys / Sec, More Is Better
Core i7 13700KF
SE +/- 9.50, N = 3
5305.83
AMD Ryzen 7 5700X
SE +/- 6.98, N = 3
5341.64
NVIDIA GeForce RTX 3070
SE +/- 5.80, N = 3
5233.73
1100
2200
3300
4400
5500
ParaView 5.10.1
Test: Many Spheres - Resolution: 2560 x 1440
Frames / Sec, More Is Better
Core i7 13700KF
SE +/- 0.02, N = 3
52.89
AMD Ryzen 7 5700X
SE +/- 0.06, N = 3
52.42
NVIDIA GeForce RTX 3070
SE +/- 0.09, N = 3
53.17
12
24
36
48
60

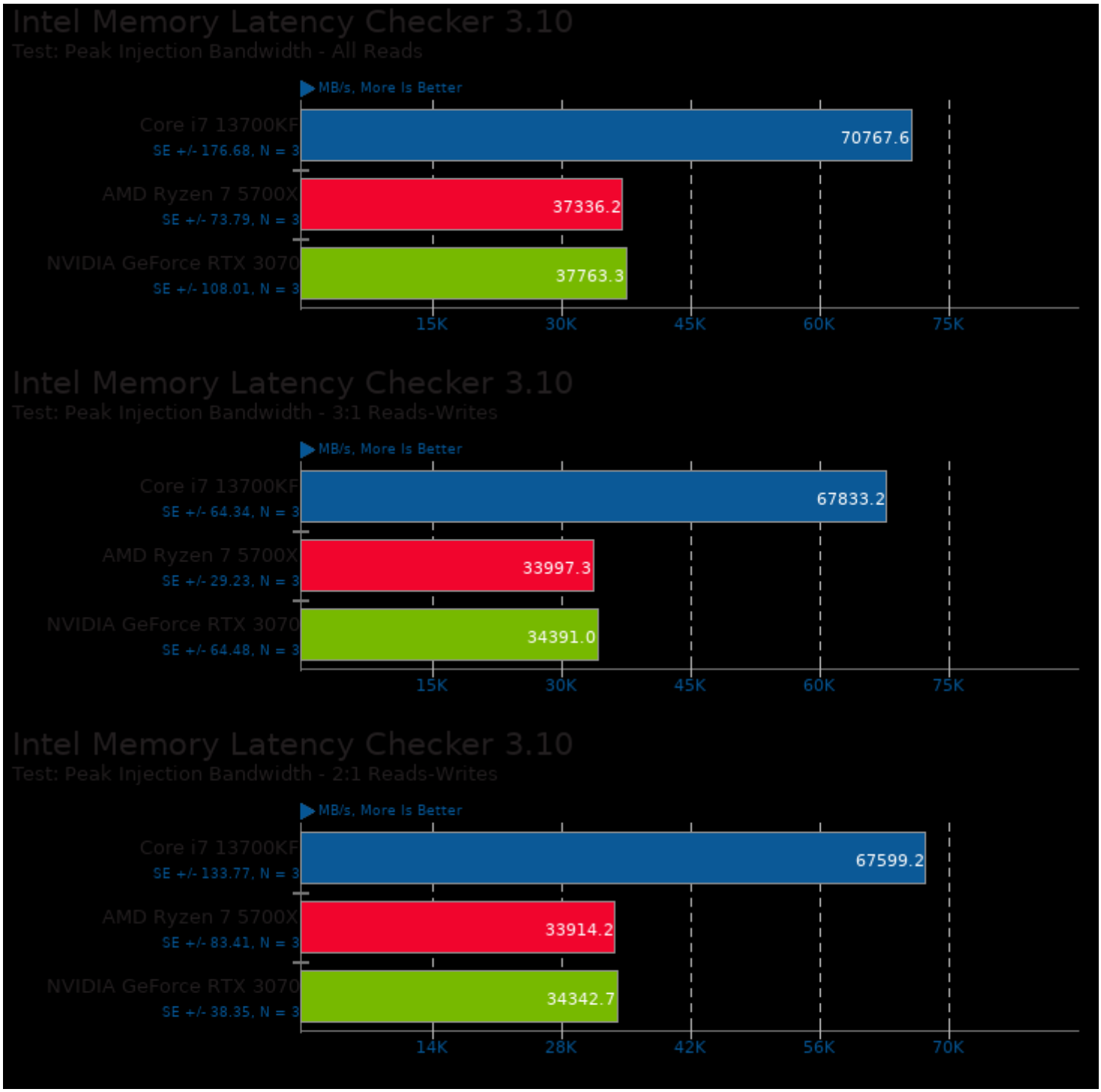

ParaView 5.10.1
Test: Many Spheres - Resolution: 2560 x 1440
MiPolys / Sec, More Is Better
Core i7 13700KF
SE +/- 2.05, N = 3
5302.62
AMD Ryzen 7 5700X
SE +/- 5.93, N = 3
5255.15
NVIDIA GeForce RTX 3070
SE +/- 8.78, N = 3
5330.58
1100
2200
3300
4400
5500
ParaView 5.10.1
Test: Wavelet Volume - Resolution: 1920 x 1080
Frames / Sec, More Is Better
Core i7 13700KF
SE +/- 0.27, N = 3
164.43
AMD Ryzen 7 5700X
SE +/- 0.00, N = 3
60.18
NVIDIA GeForce RTX 3070
SE +/- 0.03, N = 3
165.52
40
80
120
160
200
ParaView 5.10.1
Test: Wavelet Volume - Resolution: 1920 x 1080
MiVoxels / Sec, More Is Better
Core i7 13700KF
SE +/- 4.34, N = 3
2630.99
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
962.84
NVIDIA GeForce RTX 3070
SE +/- 0.41, N = 3
2648.34
600
1200
1800
2400
3000

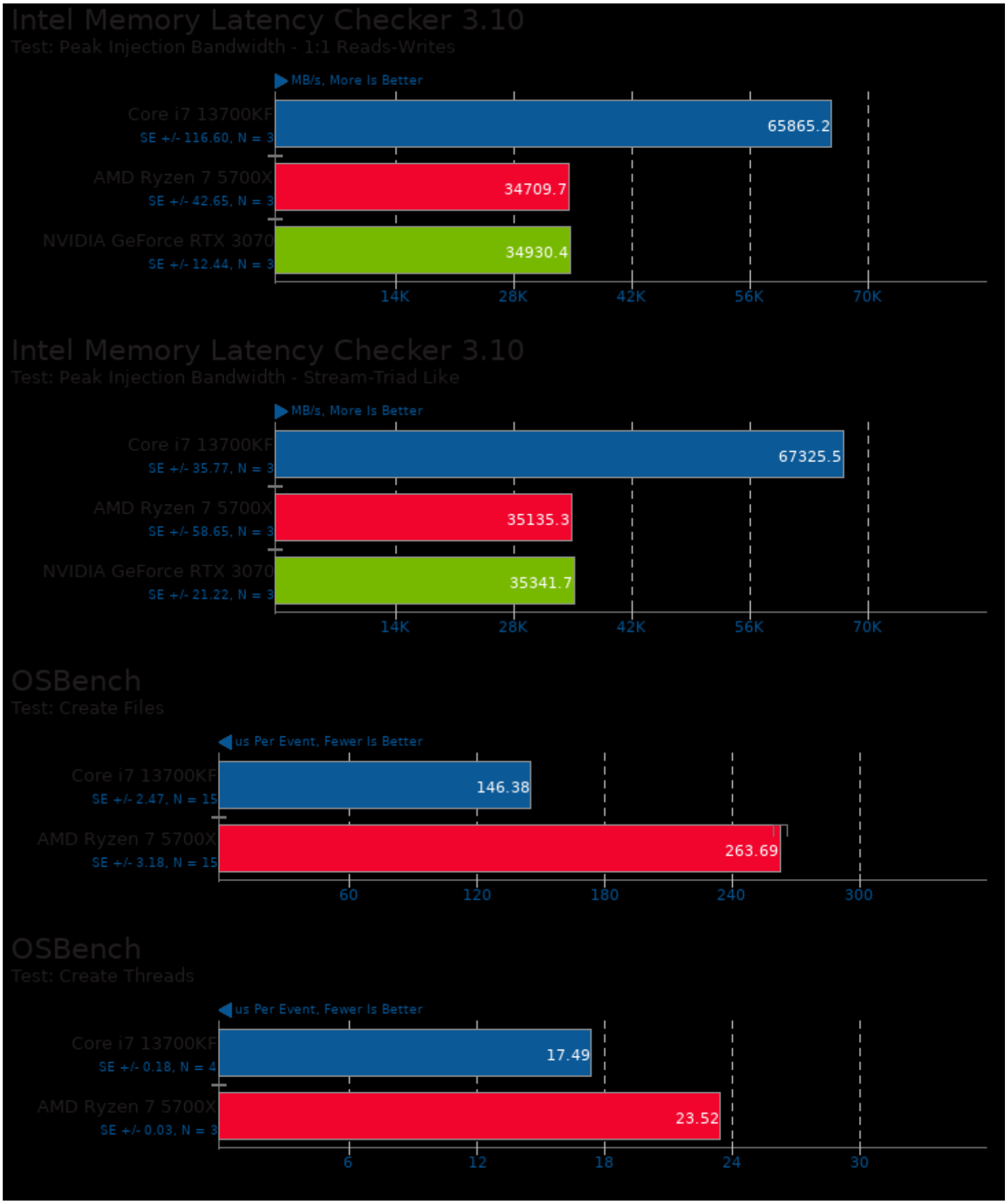

ParaView 5.10.1
Test: Wavelet Volume - Resolution: 2560 x 1440
Frames / Sec, More Is Better
Core i7 13700KF
SE +/- 0.07, N = 3
164.75
AMD Ryzen 7 5700X
SE +/- 0.04, N = 3
165.48
NVIDIA GeForce RTX 3070
SE +/- 0.04, N = 3
165.61
40
80
120
160
200
ParaView 5.10.1
Test: Wavelet Volume - Resolution: 2560 x 1440
MiVoxels / Sec, More Is Better
Core i7 13700KF
SE +/- 1.11, N = 3
2636.03
AMD Ryzen 7 5700X
SE +/- 0.60, N = 3
2647.71
NVIDIA GeForce RTX 3070
SE +/- 0.65, N = 3
2649.84
600
1200
1800
2400
3000
ParaView 5.10.1
Test: Wavelet Contour - Resolution: 1920 x 1080
Frames / Sec, More Is Better
Core i7 13700KF
SE +/- 1.47, N = 3
163.69
AMD Ryzen 7 5700X
SE +/- 0.00, N = 3
60.20
NVIDIA GeForce RTX 3070
SE +/- 1.46, N = 3
163.58
40
80
120
160
200

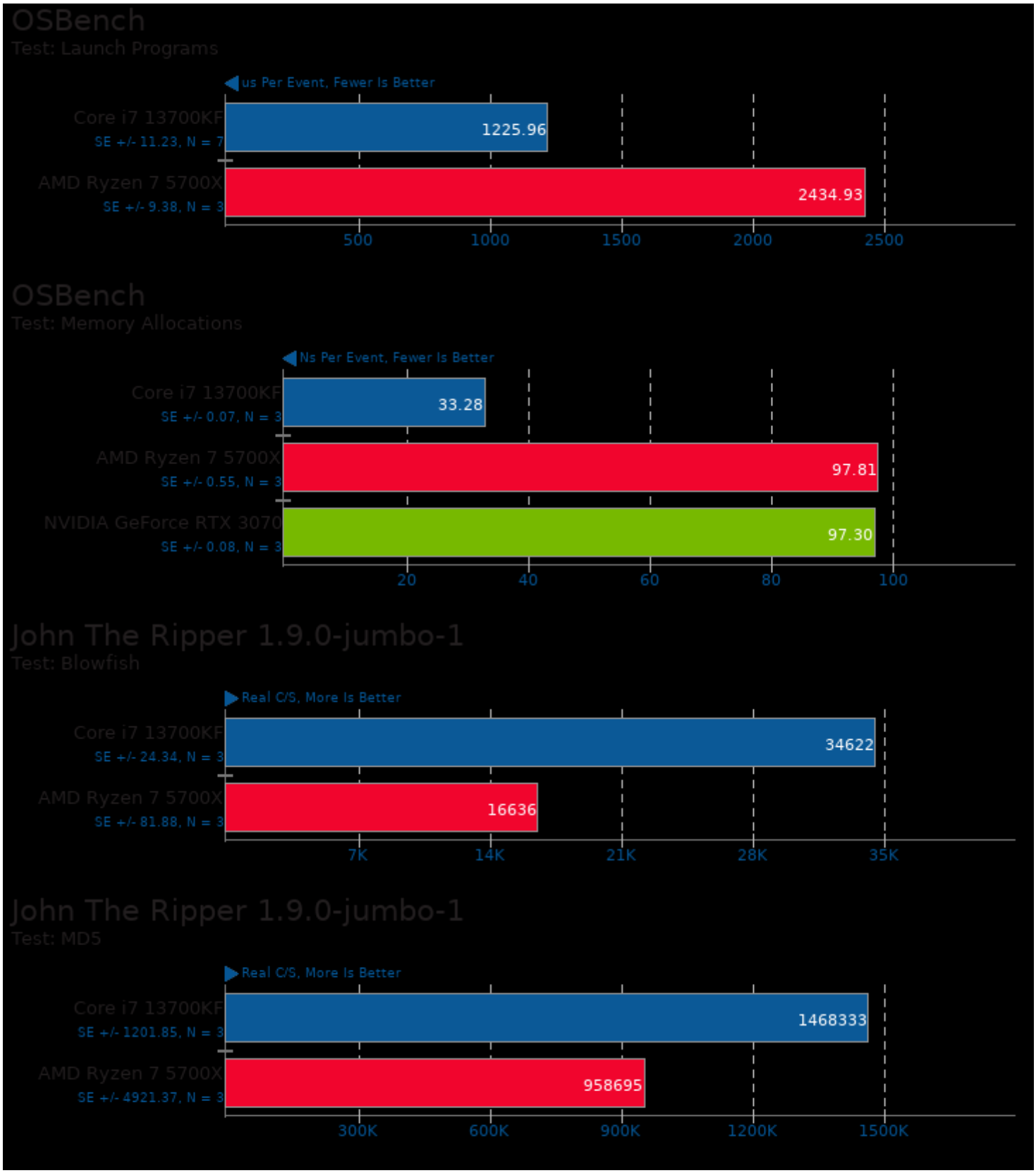

ParaView 5.10.1
Test: Wavelet Contour - Resolution: 1920 x 1080
MiPolys / Sec, More Is Better
Core i7 13700KF
SE +/- 15.32, N = 3
1705.83
AMD Ryzen 7 5700X
SE +/- 0.04, N = 3
627.34
NVIDIA GeForce RTX 3070
SE +/- 15.19, N = 3
1704.71
400
800
1200
1600
2000
ParaView 5.10.1
Test: Wavelet Contour - Resolution: 2560 x 1440
Frames / Sec, More Is Better
Core i7 13700KF
SE +/- 0.48, N = 3
164.52
AMD Ryzen 7 5700X
SE +/- 1.58, N = 3
164.00
NVIDIA GeForce RTX 3070
SE +/- 1.39, N = 3
163.04
40
80
120
160
200
ParaView 5.10.1
Test: Wavelet Contour - Resolution: 2560 x 1440
MiPolys / Sec, More Is Better
Core i7 13700KF
SE +/- 4.97, N = 3
1714.49
AMD Ryzen 7 5700X
SE +/- 16.45, N = 3
1709.06
NVIDIA GeForce RTX 3070
SE +/- 14.51, N = 3
1699.03
400
800
1200
1600
2000

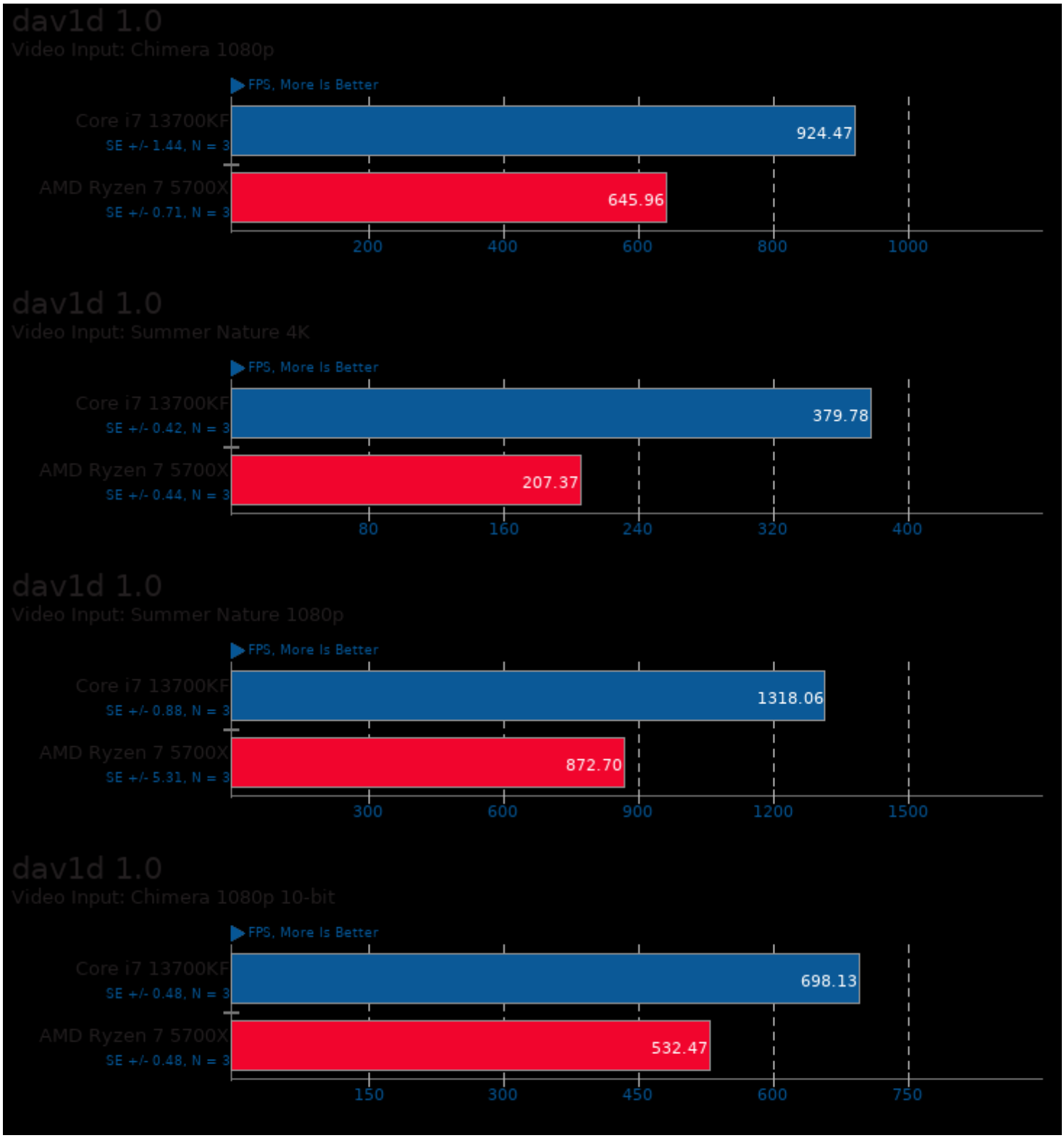

Intel Memory Latency Checker 3.10
Test: Idle Latency
ns, Fewer Is Better
Core i7 13700KF
SE +/- 0.33, N = 3
88.9
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
85.8
NVIDIA GeForce RTX 3070
SE +/- 0.21, N = 3
88.2
20
40
60
80
100
Intel Memory Latency Checker 3.10
Test: Max Bandwidth - All Reads
MB/s, More Is Better
Core i7 13700KF
SE +/- 67.97, N = 3
70842.40
AMD Ryzen 7 5700X
SE +/- 14.23, N = 3
37789.88
NVIDIA GeForce RTX 3070
SE +/- 21.36, N = 3
38264.61
15K
30K
45K
60K
75K
Intel Memory Latency Checker 3.10
Test: Max Bandwidth - 3:1 Reads-Writes
MB/s, More Is Better
Core i7 13700KF
SE +/- 27.03, N = 3
68390.00
AMD Ryzen 7 5700X
SE +/- 26.13, N = 3
34139.66
NVIDIA GeForce RTX 3070
SE +/- 23.39, N = 3
34512.99
15K
30K
45K
60K
75K


Intel Memory Latency Checker 3.10
Test: Max Bandwidth - 2:1 Reads-Writes
MB/s, More Is Better
Core i7 13700KF
SE +/- 112.36, N = 3
67999.26
AMD Ryzen 7 5700X
SE +/- 30.52, N = 3
34011.59
NVIDIA GeForce RTX 3070
SE +/- 19.80, N = 3
34395.23
15K
30K
45K
60K
75K
Intel Memory Latency Checker 3.10
Test: Max Bandwidth - 1:1 Reads-Writes
MB/s, More Is Better
Core i7 13700KF
SE +/- 60.46, N = 3
66136.89
AMD Ryzen 7 5700X
SE +/- 5.77, N = 3
34714.62
NVIDIA GeForce RTX 3070
SE +/- 27.43, N = 3
35081.10
14K
28K
42K
56K
70K
Intel Memory Latency Checker 3.10
Test: Max Bandwidth - Stream-Triad Like
MB/s, More Is Better
Core i7 13700KF
SE +/- 65.32, N = 3
67383.98
AMD Ryzen 7 5700X
SE +/- 2.75, N = 3
35239.28
NVIDIA GeForce RTX 3070
SE +/- 12.68, N = 3
35529.79
14K
28K
42K
56K
70K

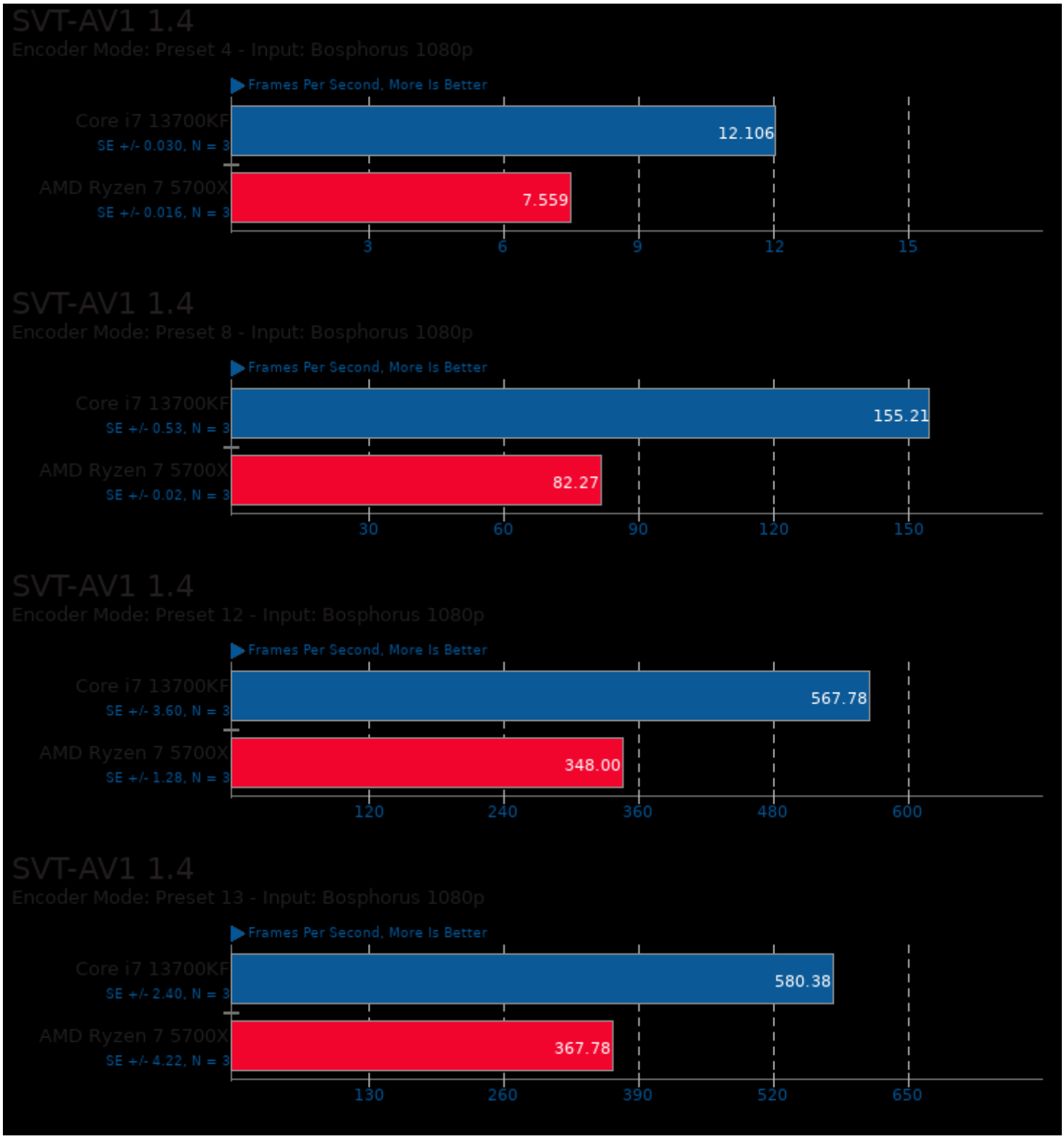

Intel Memory Latency Checker 3.10
Test: Peak Injection Bandwidth - All Reads
MB/s, More Is Better
Core i7 13700KF
SE +/- 176.68, N = 3
70767.6
AMD Ryzen 7 5700X
SE +/- 73.79, N = 3
37336.2
NVIDIA GeForce RTX 3070
SE +/- 108.01, N = 3
37763.3
15K
30K
45K
60K
75K
Intel Memory Latency Checker 3.10
Test: Peak Injection Bandwidth - 3:1 Reads-Writes
MB/s, More Is Better
Core i7 13700KF
SE +/- 64.34, N = 3
67833.2
AMD Ryzen 7 5700X
SE +/- 29.23, N = 3
33997.3
NVIDIA GeForce RTX 3070
SE +/- 64.48, N = 3
34391.0
15K
30K
45K
60K
75K
Intel Memory Latency Checker 3.10
Test: Peak Injection Bandwidth - 2:1 Reads-Writes
MB/s, More Is Better
Core i7 13700KF
SE +/- 133.77, N = 3
67599.2
AMD Ryzen 7 5700X
SE +/- 83.41, N = 3
33914.2
NVIDIA GeForce RTX 3070
SE +/- 38.35, N = 3
34342.7
14K
28K
42K
56K
70K


Intel Memory Latency Checker 3.10
Test: Peak Injection Bandwidth - 1:1 Reads-Writes
MB/s, More Is Better
Core i7 13700KF
SE +/- 116.60, N = 3
65865.2
AMD Ryzen 7 5700X
SE +/- 42.65, N = 3
34709.7
NVIDIA GeForce RTX 3070
SE +/- 12.44, N = 3
34930.4
14K
28K
42K
56K
70K
Intel Memory Latency Checker 3.10
Test: Peak Injection Bandwidth - Stream-Triad Like
MB/s, More Is Better
Core i7 13700KF
SE +/- 35.77, N = 3
67325.5
AMD Ryzen 7 5700X
SE +/- 58.65, N = 3
35135.3
NVIDIA GeForce RTX 3070
SE +/- 21.22, N = 3
35341.7
14K
28K
42K
56K
70K
OSBench
Test: Create Files
us Per Event, Fewer Is Better
Core i7 13700KF
SE +/- 2.47, N = 15
146.38
AMD Ryzen 7 5700X
SE +/- 3.18, N = 15
263.69
60
120
180
240
300
OSBench
Test: Create Threads
us Per Event, Fewer Is Better
Core i7 13700KF
SE +/- 0.18, N = 4
17.49
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
23.52
6
12
18
24
30


OSBench
Test: Launch Programs
us Per Event, Fewer Is Better
Core i7 13700KF
SE +/- 11.23, N = 7
1225.96
AMD Ryzen 7 5700X
SE +/- 9.38, N = 3
2434.93
500
1000
1500
2000
2500
OSBench
Test: Memory Allocations
Ns Per Event, Fewer Is Better
Core i7 13700KF
SE +/- 0.07, N = 3
33.28
AMD Ryzen 7 5700X
SE +/- 0.55, N = 3
97.81
NVIDIA GeForce RTX 3070
SE +/- 0.08, N = 3
97.30
20
40
60
80
100
John The Ripper 1.9.0-jumbo-1
Test: Blowfish
Real C/S, More Is Better
Core i7 13700KF
SE +/- 24.34, N = 3
34622
AMD Ryzen 7 5700X
SE +/- 81.88, N = 3
16636
7K
14K
21K
28K
35K
John The Ripper 1.9.0-jumbo-1
Test: MD5
Real C/S, More Is Better
Core i7 13700KF
SE +/- 1201.85, N = 3
1468333
AMD Ryzen 7 5700X
SE +/- 4921.37, N = 3
958695
300K
600K
900K
1200K
1500K

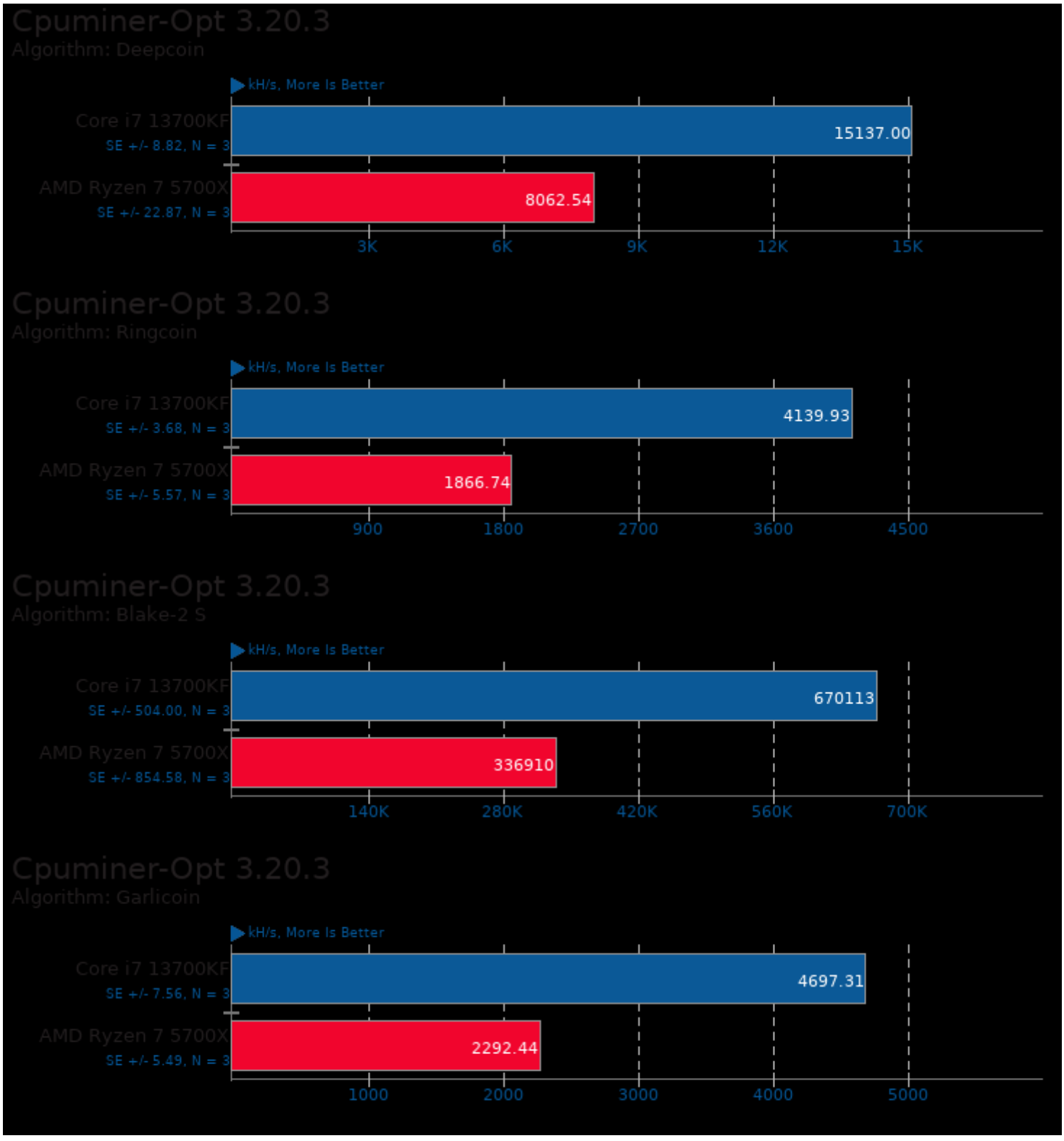

dav1d 1.0
Video Input: Chimera 1080p
FPS, More Is Better
Core i7 13700KF
SE +/- 1.44, N = 3
924.47
AMD Ryzen 7 5700X
SE +/- 0.71, N = 3
645.96
200
400
600
800
1000
dav1d 1.0
Video Input: Summer Nature 4K
FPS, More Is Better
Core i7 13700KF
SE +/- 0.42, N = 3
379.78
AMD Ryzen 7 5700X
SE +/- 0.44, N = 3
207.37
80
160
240
320
400
dav1d 1.0
Video Input: Summer Nature 1080p
FPS, More Is Better
Core i7 13700KF
SE +/- 0.88, N = 3
1318.06
AMD Ryzen 7 5700X
SE +/- 5.31, N = 3
872.70
300
600
900
1200
1500
dav1d 1.0
Video Input: Chimera 1080p 10-bit
FPS, More Is Better
Core i7 13700KF
SE +/- 0.48, N = 3
698.13
AMD Ryzen 7 5700X
SE +/- 0.48, N = 3
532.47
150
300
450
600
750

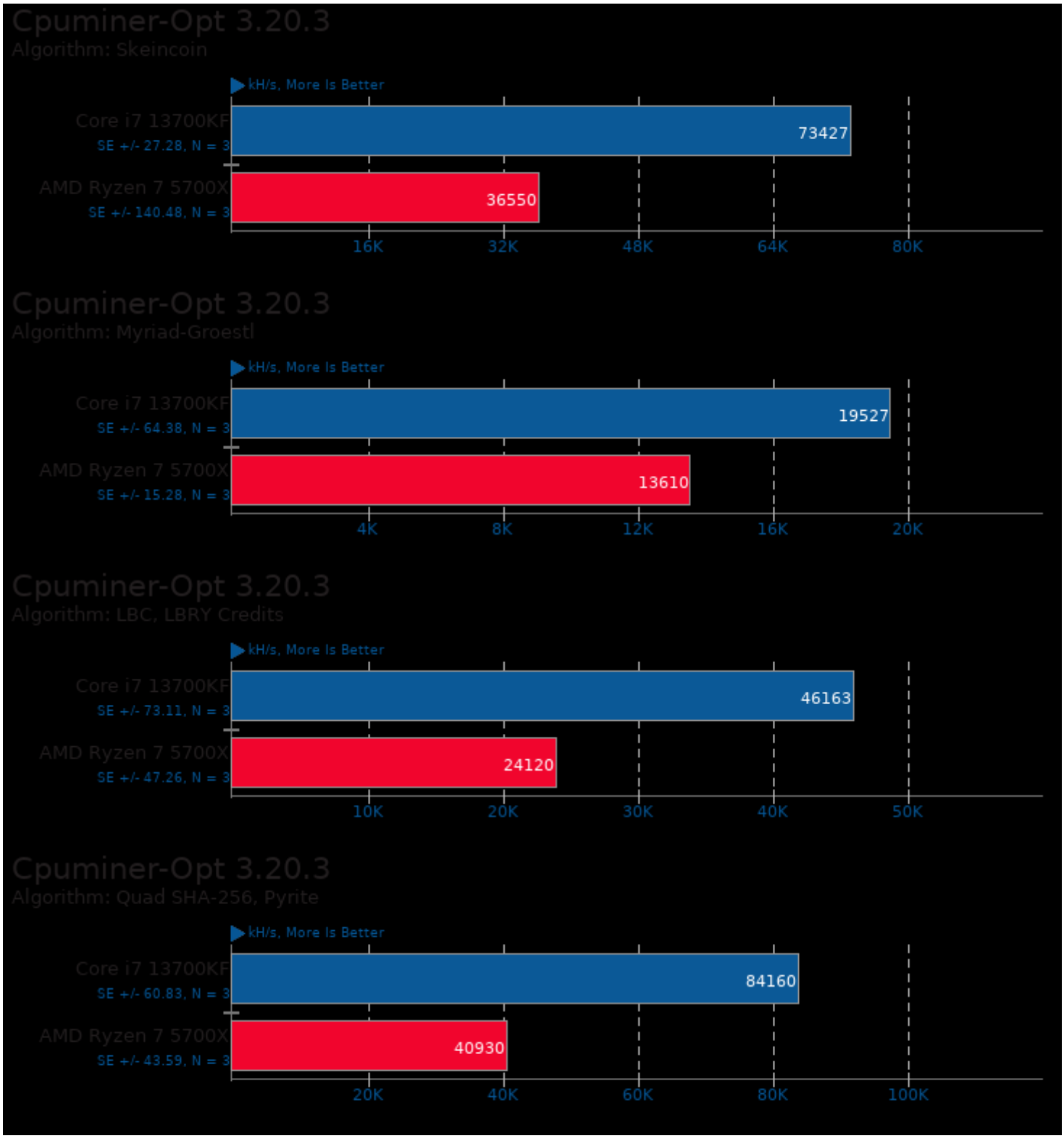

SVT-AV1 1.4
Encoder Mode: Preset 4 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.015, N = 3
3.956
AMD Ryzen 7 5700X
SE +/- 0.004, N = 3
2.259
0.8901
1.7802
2.6703
3.5604
4.4505
SVT-AV1 1.4
Encoder Mode: Preset 8 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.09, N = 3
51.85
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
26.56
12
24
36
48
60
SVT-AV1 1.4
Encoder Mode: Preset 12 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.09, N = 3
140.74
AMD Ryzen 7 5700X
SE +/- 0.22, N = 3
81.37
30
60
90
120
150
SVT-AV1 1.4
Encoder Mode: Preset 13 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.40, N = 3
148.70
AMD Ryzen 7 5700X
SE +/- 0.31, N = 3
86.47
30
60
90
120
150

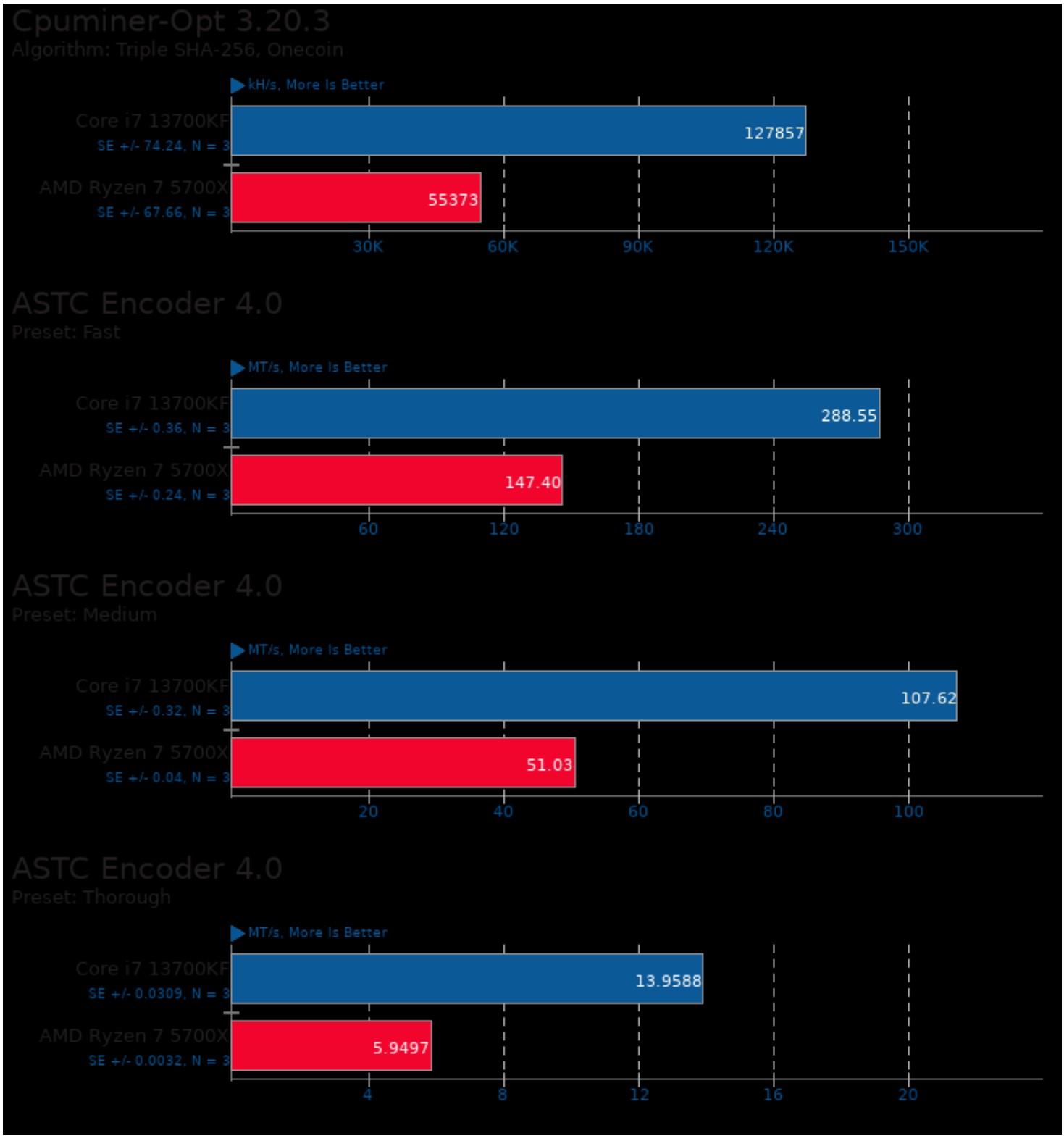

SVT-AV1 1.4
Encoder Mode: Preset 4 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.030, N = 3
12.106
AMD Ryzen 7 5700X
SE +/- 0.016, N = 3
7.559
3
6
9
12
15
SVT-AV1 1.4
Encoder Mode: Preset 8 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.53, N = 3
155.21
AMD Ryzen 7 5700X
SE +/- 0.02, N = 3
82.27
30
60
90
120
150
SVT-AV1 1.4
Encoder Mode: Preset 12 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 3.60, N = 3
567.78
AMD Ryzen 7 5700X
SE +/- 1.28, N = 3
348.00
120
240
360
480
600
SVT-AV1 1.4
Encoder Mode: Preset 13 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 2.40, N = 3
580.38
AMD Ryzen 7 5700X
SE +/- 4.22, N = 3
367.78
130
260
390
520
650

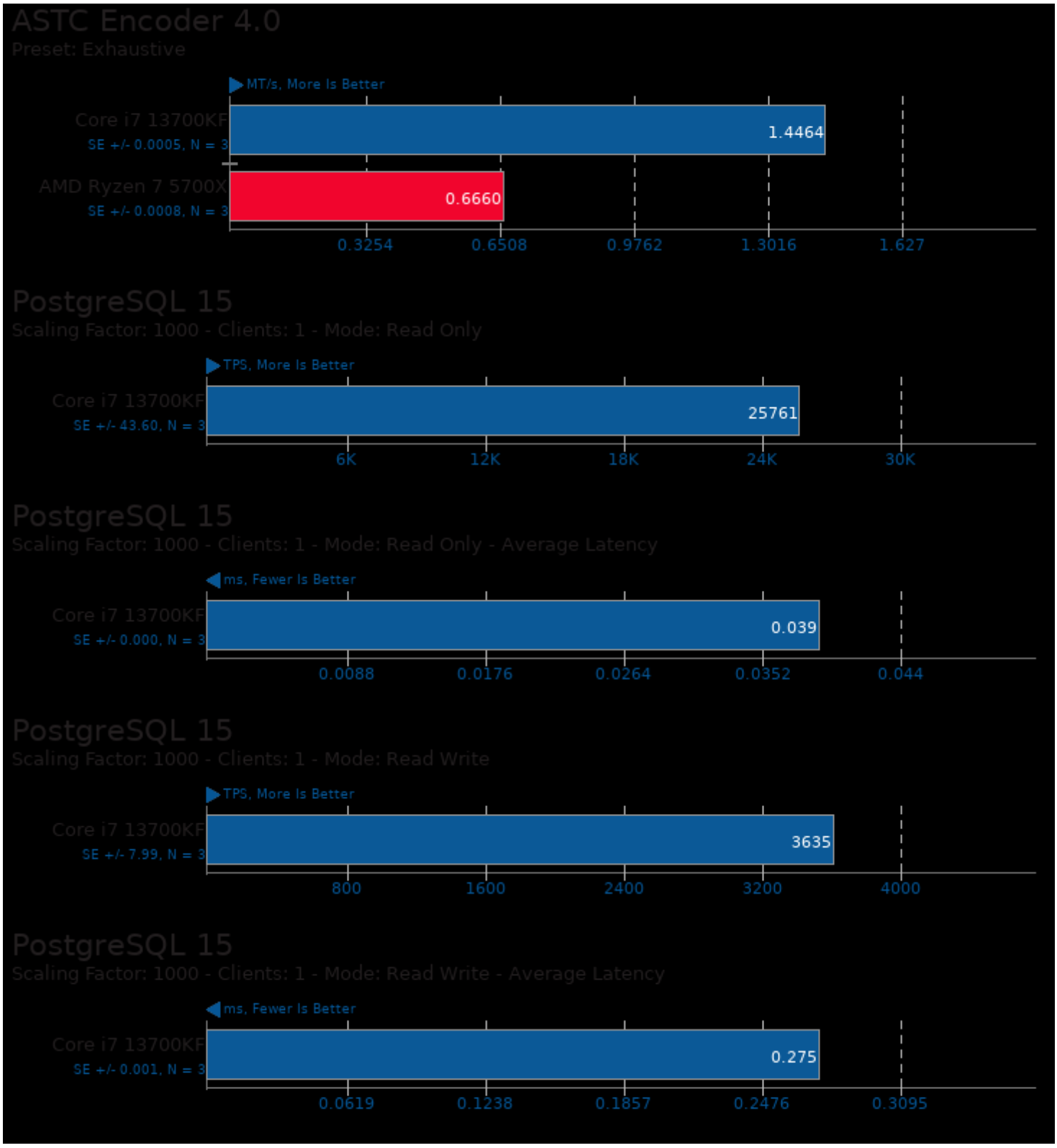

x264 2022-02-22
Video Input: Bosphorus 4K
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.11, N = 3
54.13
AMD Ryzen 7 5700X
SE +/- 0.11, N = 3
27.70
12
24
36
48
60
x264 2022-02-22
Video Input: Bosphorus 1080p
Frames Per Second, More Is Better
Core i7 13700KF
SE +/- 0.27, N = 3
224.94
AMD Ryzen 7 5700X
SE +/- 0.51, N = 3
117.80
50
100
150
200
250
7-Zip Compression 22.01
Test: Compression Rating
MIPS, More Is Better
Core i7 13700KF
SE +/- 370.61, N = 3
135698
AMD Ryzen 7 5700X
SE +/- 302.41, N = 3
78477
NVIDIA GeForce RTX 3070
SE +/- 99.45, N = 3
78780
30K
60K
90K
120K
150K
7-Zip Compression 22.01
Test: Decompression Rating
MIPS, More Is Better
Core i7 13700KF
SE +/- 141.71, N = 3
105957
AMD Ryzen 7 5700X
SE +/- 40.17, N = 3
67640
NVIDIA GeForce RTX 3070
SE +/- 51.78, N = 3
66985
20K
40K
60K
80K
100K

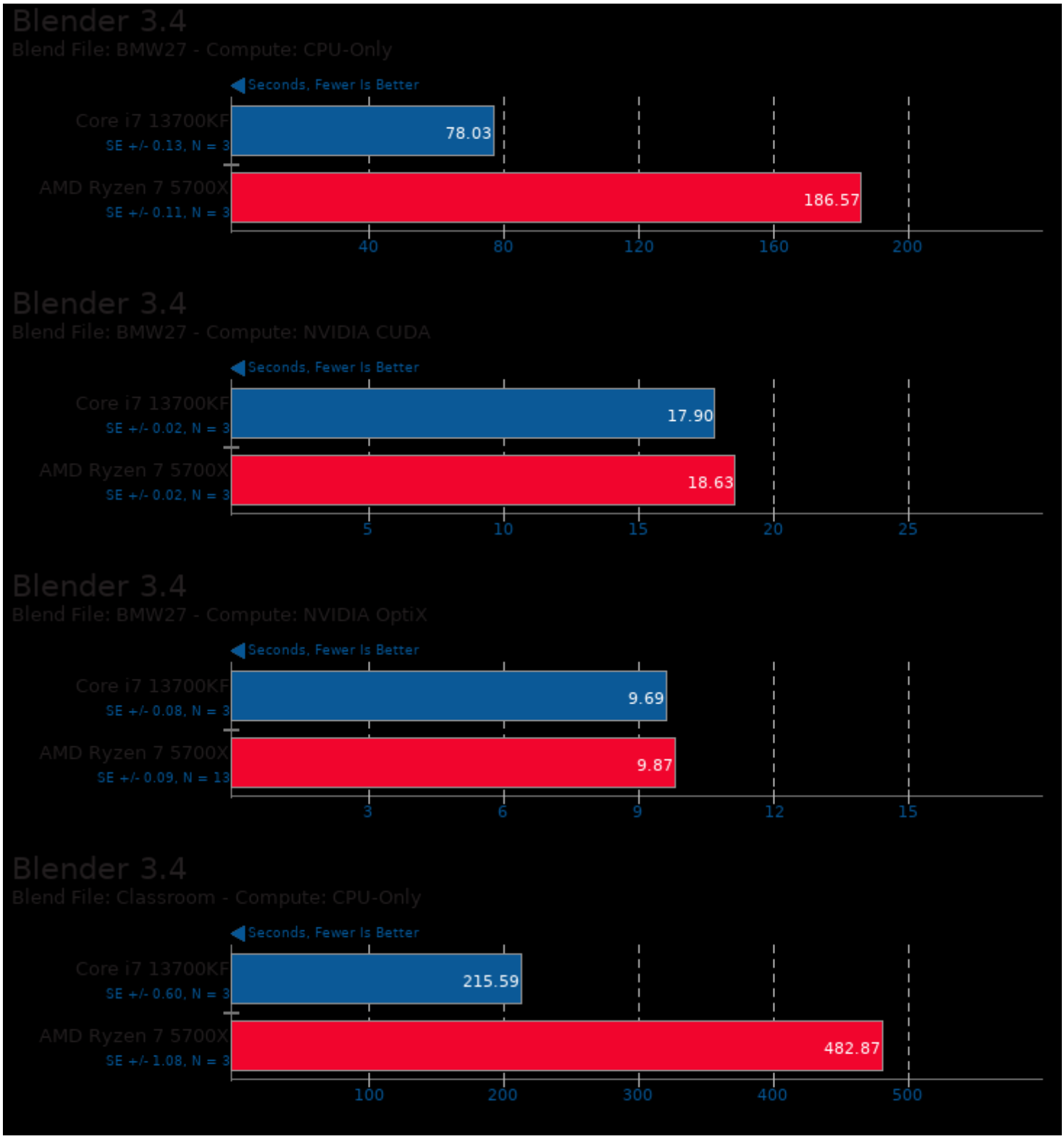

Y-Cruncher 0.7.10.9513
Pi Digits To Calculate: 1B
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
25.75
AMD Ryzen 7 5700X
SE +/- 0.02, N = 3
46.72
11
22
33
44
55
Cpuminer-Opt 3.20.3
Algorithm: Magi
kH/s, More Is Better
Core i7 13700KF
SE +/- 1.16, N = 3
594.70
AMD Ryzen 7 5700X
SE +/- 0.21, N = 3
260.80
130
260
390
520
650
Cpuminer-Opt 3.20.3
Algorithm: x25x
kH/s, More Is Better
Core i7 13700KF
SE +/- 0.58, N = 3
887.60
AMD Ryzen 7 5700X
SE +/- 1.57, N = 3
357.31
200
400
600
800
1000
Cpuminer-Opt 3.20.3
Algorithm: scrypt
kH/s, More Is Better
Core i7 13700KF
SE +/- 0.07, N = 3
263.57
AMD Ryzen 7 5700X
SE +/- 0.35, N = 3
143.39
60
120
180
240
300

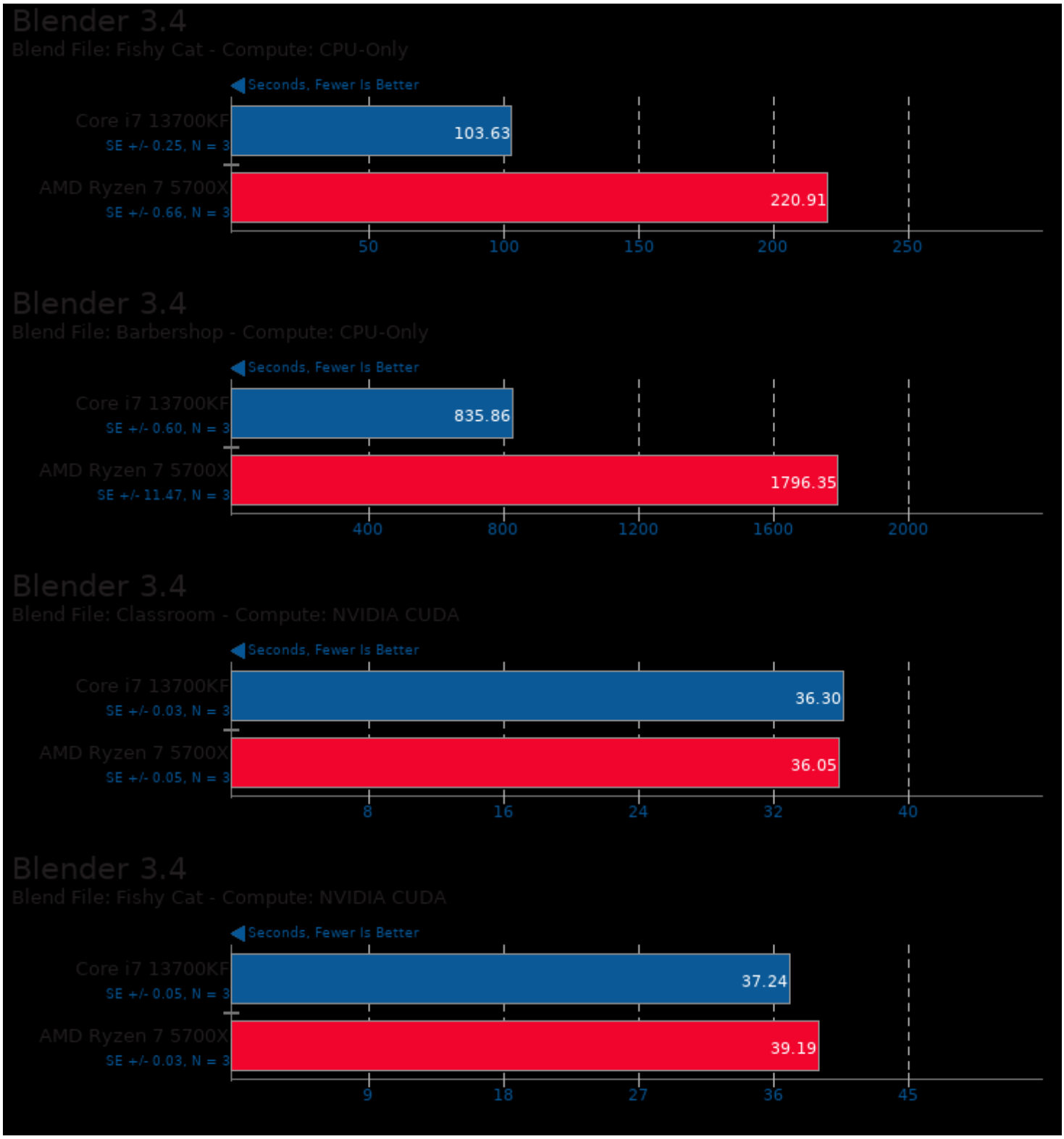

Cpuminer-Opt 3.20.3
Algorithm: Deepcoin
kH/s, More Is Better
Core i7 13700KF
SE +/- 8.82, N = 3
15137.00
AMD Ryzen 7 5700X
SE +/- 22.87, N = 3
8062.54
3K
6K
9K
12K
15K
Cpuminer-Opt 3.20.3
Algorithm: Ringcoin
kH/s, More Is Better
Core i7 13700KF
SE +/- 3.68, N = 3
4139.93
AMD Ryzen 7 5700X
SE +/- 5.57, N = 3
1866.74
900
1800
2700
3600
4500
Cpuminer-Opt 3.20.3
Algorithm: Blake-2 S
kH/s, More Is Better
Core i7 13700KF
SE +/- 504.00, N = 3
670113
AMD Ryzen 7 5700X
SE +/- 854.58, N = 3
336910
140K
280K
420K
560K
700K
Cpuminer-Opt 3.20.3
Algorithm: Garlicoin
kH/s, More Is Better
Core i7 13700KF
SE +/- 7.56, N = 3
4697.31
AMD Ryzen 7 5700X
SE +/- 5.49, N = 3
2292.44
1000
2000
3000
4000
5000

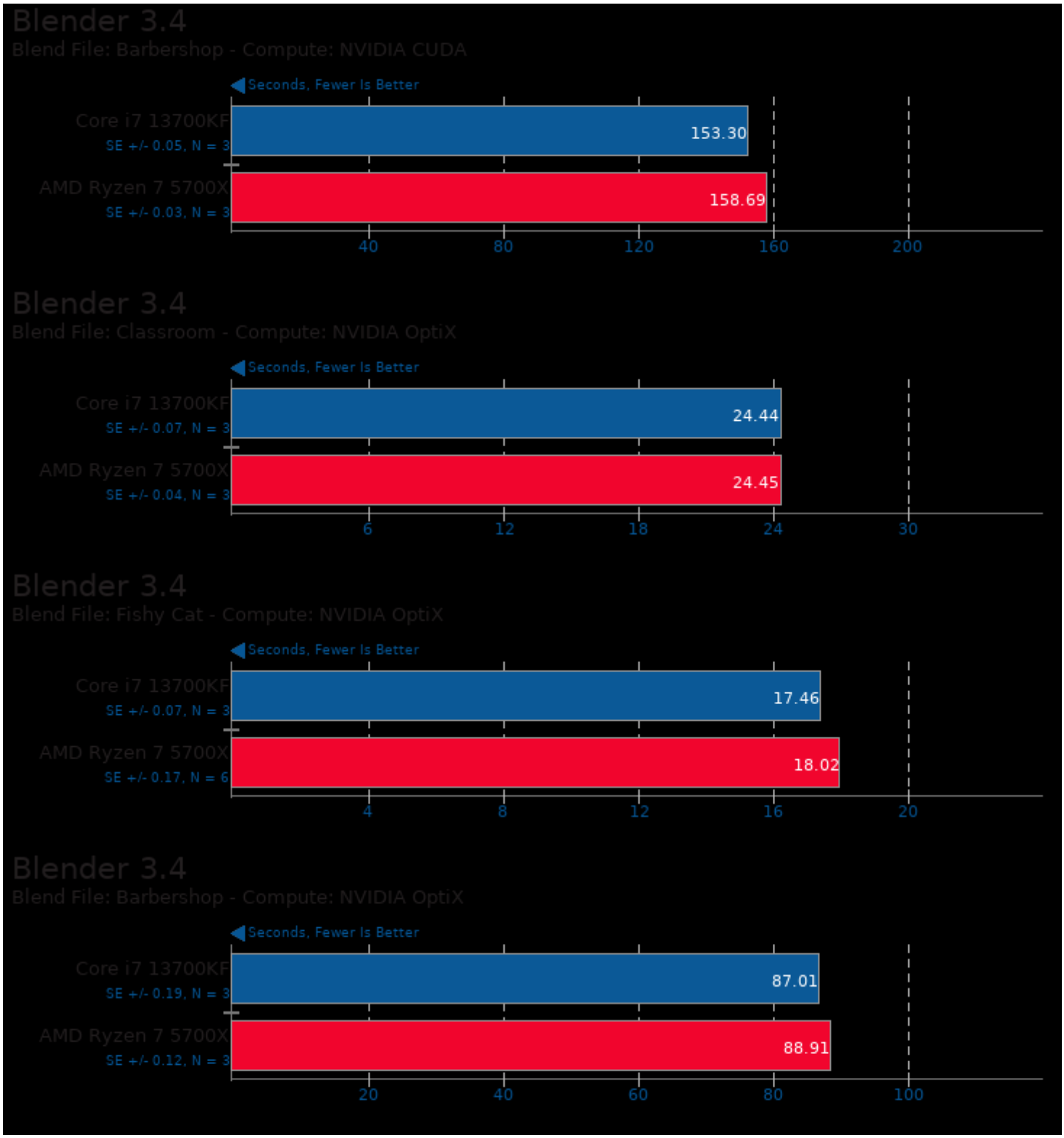

Cpuminer-Opt 3.20.3
Algorithm: Skeincoin
kH/s, More Is Better
Core i7 13700KF
SE +/- 27.28, N = 3
73427
AMD Ryzen 7 5700X
SE +/- 140.48, N = 3
36550
16K
32K
48K
64K
80K
Cpuminer-Opt 3.20.3
Algorithm: Myriad-Groestl
kH/s, More Is Better
Core i7 13700KF
SE +/- 64.38, N = 3
19527
AMD Ryzen 7 5700X
SE +/- 15.28, N = 3
13610
4K
8K
12K
16K
20K
Cpuminer-Opt 3.20.3
Algorithm: LBC, LBRY Credits
kH/s, More Is Better
Core i7 13700KF
SE +/- 73.11, N = 3
46163
AMD Ryzen 7 5700X
SE +/- 47.26, N = 3
24120
10K
20K
30K
40K
50K
Cpuminer-Opt 3.20.3
Algorithm: Quad SHA-256, Pyrite
kH/s, More Is Better
Core i7 13700KF
SE +/- 60.83, N = 3
84160
AMD Ryzen 7 5700X
SE +/- 43.59, N = 3
40930
20K
40K
60K
80K
100K

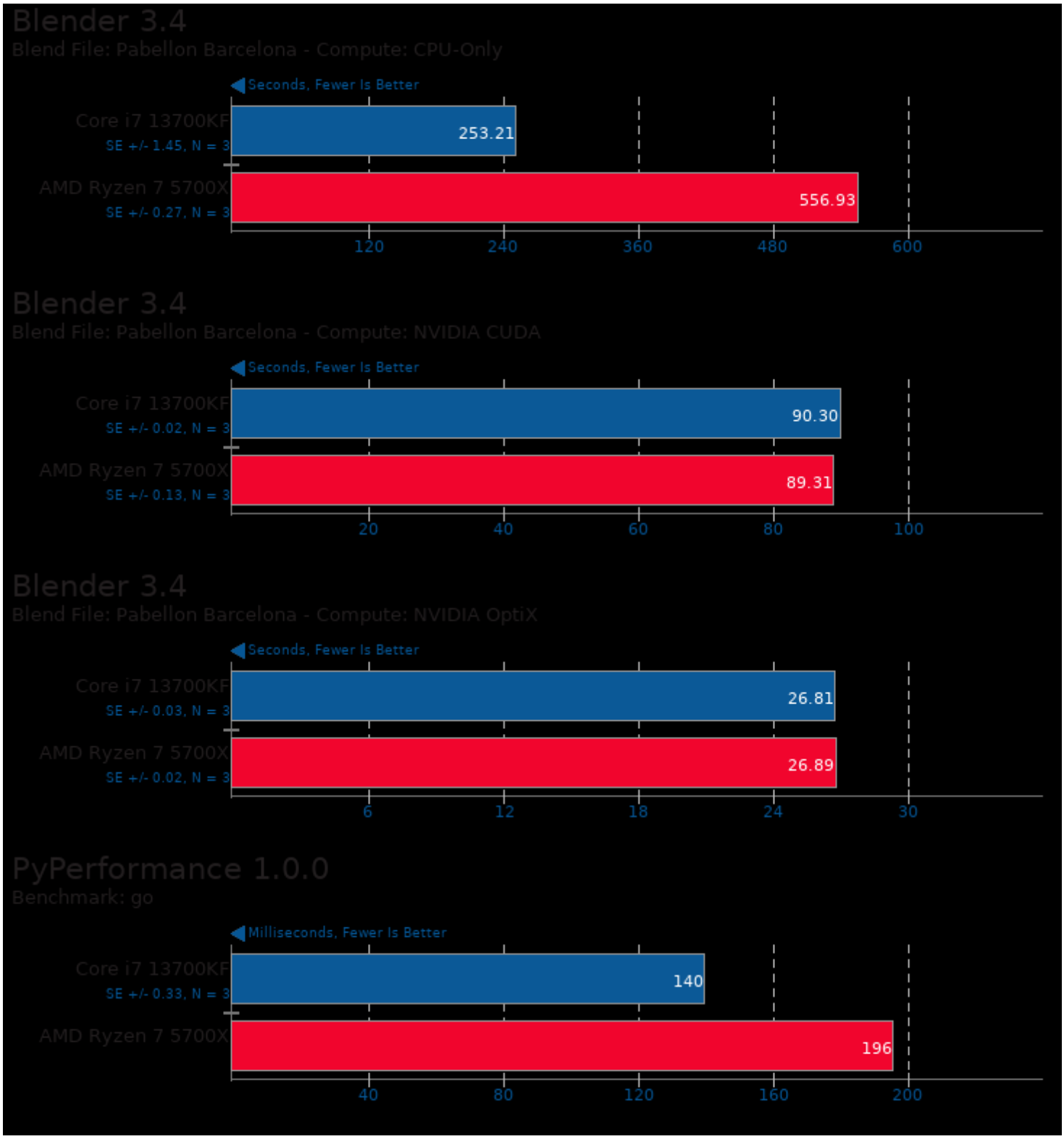

Cpuminer-Opt 3.20.3
Algorithm: Triple SHA-256, Onecoin
kH/s, More Is Better
Core i7 13700KF
SE +/- 74.24, N = 3
127857
AMD Ryzen 7 5700X
SE +/- 67.66, N = 3
55373
30K
60K
90K
120K
150K
ASTC Encoder 4.0
Preset: Fast
MT/s, More Is Better
Core i7 13700KF
SE +/- 0.36, N = 3
288.55
AMD Ryzen 7 5700X
SE +/- 0.24, N = 3
147.40
60
120
180
240
300
ASTC Encoder 4.0
Preset: Medium
MT/s, More Is Better
Core i7 13700KF
SE +/- 0.32, N = 3
107.62
AMD Ryzen 7 5700X
SE +/- 0.04, N = 3
51.03
20
40
60
80
100
ASTC Encoder 4.0
Preset: Thorough
MT/s, More Is Better
Core i7 13700KF
SE +/- 0.0309, N = 3
13.9588
AMD Ryzen 7 5700X
SE +/- 0.0032, N = 3
5.9497
4
8
12
16
20

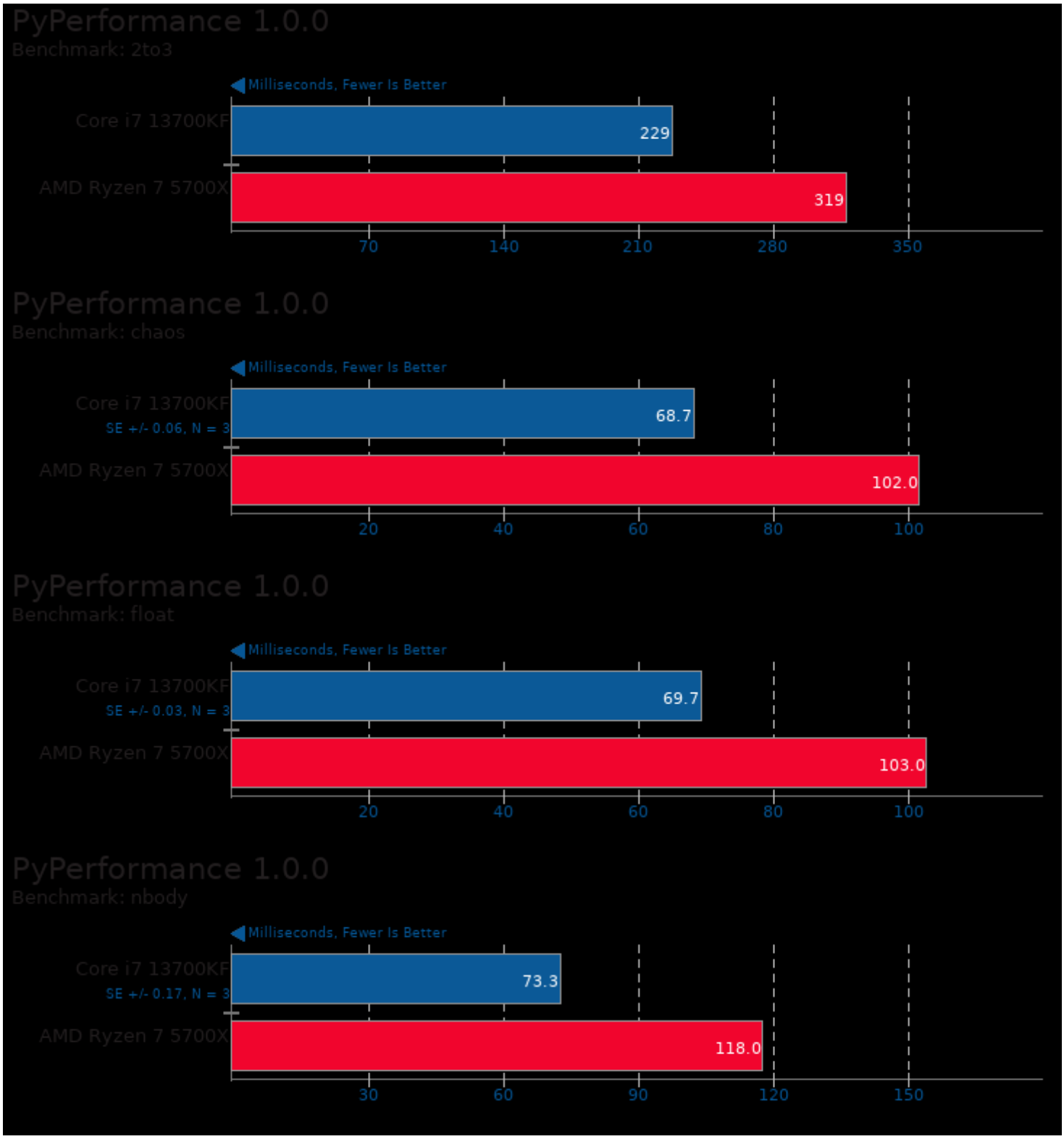

ASTC Encoder 4.0
Preset: Exhaustive
MT/s, More Is Better
Core i7 13700KF
SE +/- 0.0005, N = 3
1.4464
AMD Ryzen 7 5700X
SE +/- 0.0008, N = 3
0.6660
0.3254
0.6508
0.9762
1.3016
1.627
PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only
TPS, More Is Better
Core i7 13700KF
SE +/- 43.60, N = 3
25761
6K
12K
18K
24K
30K
PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only - Average Latency
ms, Fewer Is Better
Core i7 13700KF
SE +/- 0.000, N = 3
0.039
0.0088
0.0176
0.0264
0.0352
0.044
PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write
TPS, More Is Better
Core i7 13700KF
SE +/- 7.99, N = 3
3635
800
1600
2400
3200
4000
PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
Core i7 13700KF
SE +/- 0.001, N = 3
0.275
0.0619
0.1238
0.1857
0.2476
0.3095

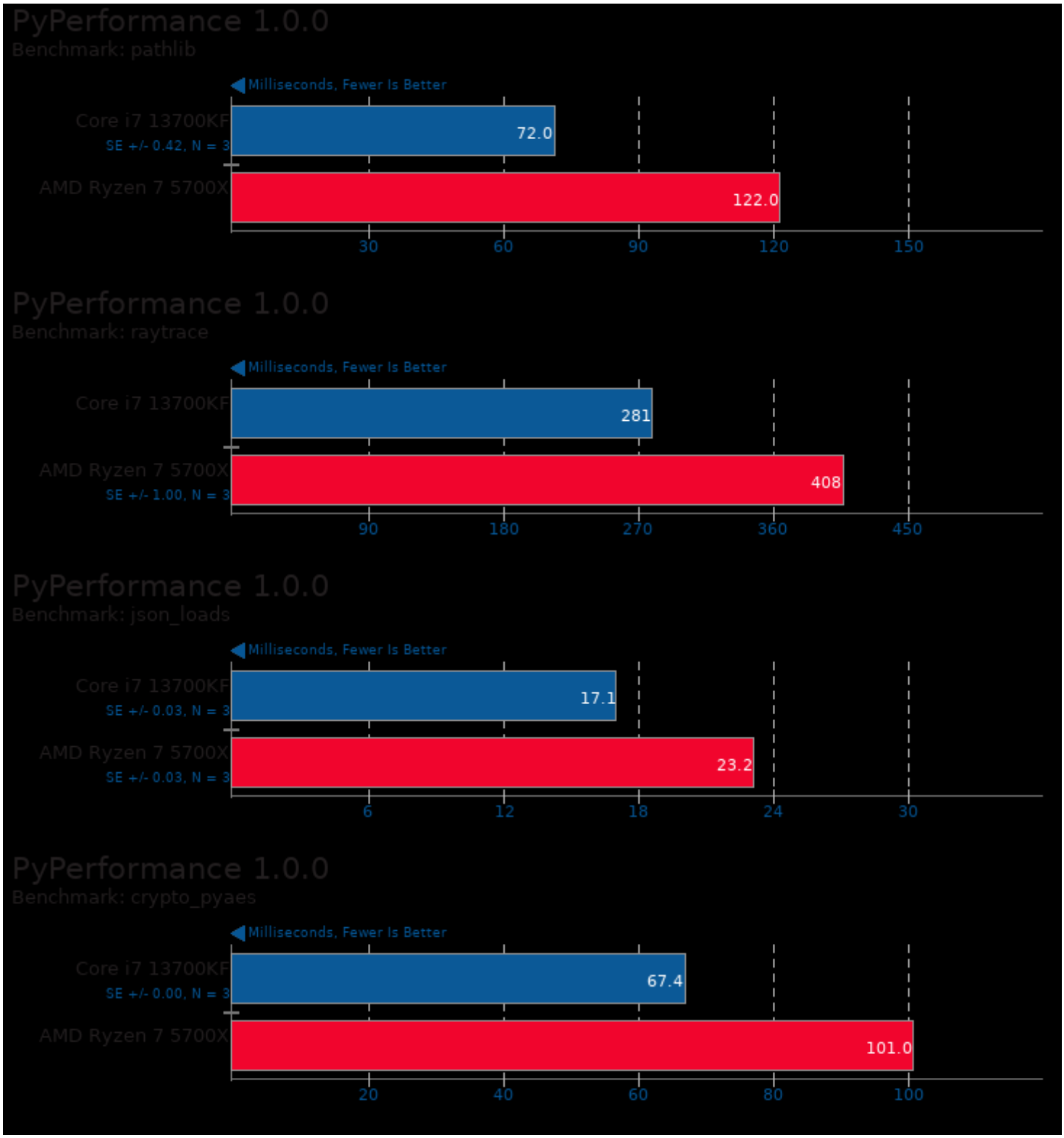

Blender 3.4
Blend File: BMW27 - Compute: CPU-Only
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.13, N = 3
78.03
AMD Ryzen 7 5700X
SE +/- 0.11, N = 3
186.57
40
80
120
160
200
Blender 3.4
Blend File: BMW27 - Compute: NVIDIA CUDA
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.02, N = 3
17.90
AMD Ryzen 7 5700X
SE +/- 0.02, N = 3
18.63
5
10
15
20
25
Blender 3.4
Blend File: BMW27 - Compute: NVIDIA OptiX
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.08, N = 3
9.69
AMD Ryzen 7 5700X
SE +/- 0.09, N = 13
9.87
3
6
9
12
15
Blender 3.4
Blend File: Classroom - Compute: CPU-Only
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.60, N = 3
215.59
AMD Ryzen 7 5700X
SE +/- 1.08, N = 3
482.87
100
200
300
400
500

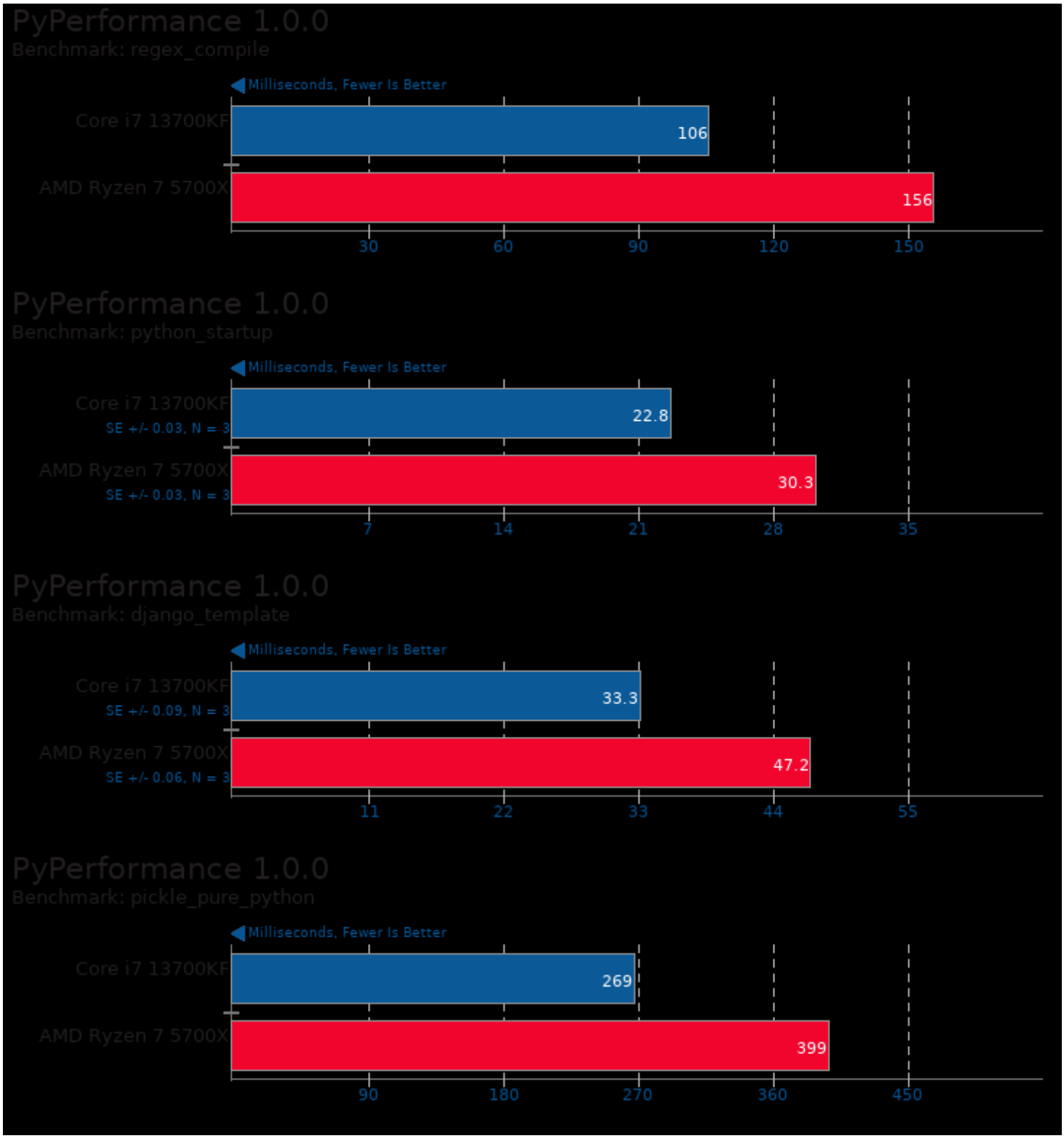

Blender 3.4
Blend File: Fishy Cat - Compute: CPU-Only
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.25, N = 3
103.63
AMD Ryzen 7 5700X
SE +/- 0.66, N = 3
220.91
50
100
150
200
250
Blender 3.4
Blend File: Barbershop - Compute: CPU-Only
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.60, N = 3
835.86
AMD Ryzen 7 5700X
SE +/- 11.47, N = 3
1796.35
400
800
1200
1600
2000
Blender 3.4
Blend File: Classroom - Compute: NVIDIA CUDA
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
36.30
AMD Ryzen 7 5700X
SE +/- 0.05, N = 3
36.05
8
16
24
32
40
Blender 3.4
Blend File: Fishy Cat - Compute: NVIDIA CUDA
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.05, N = 3
37.24
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
39.19
9
18
27
36
45

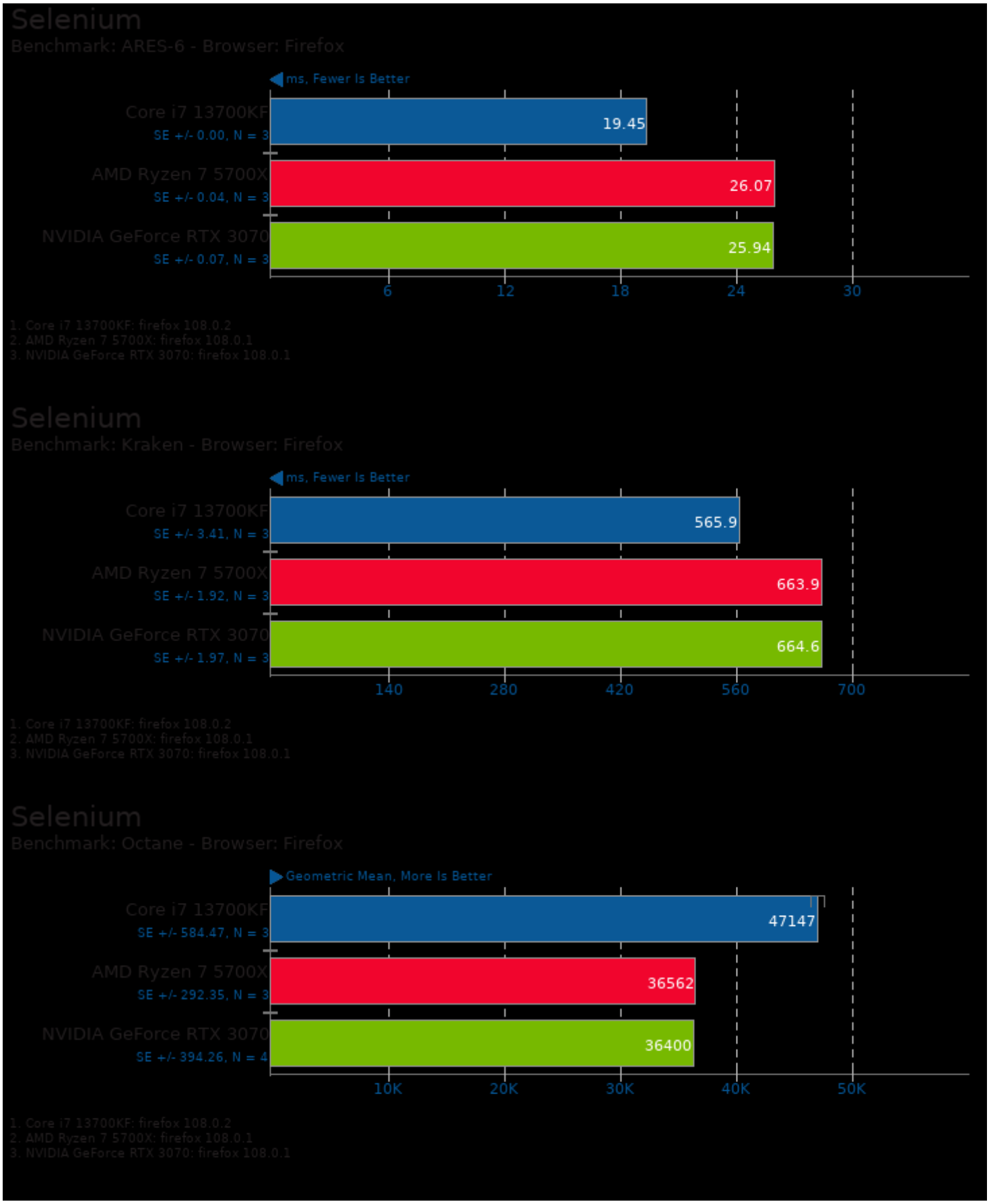

Blender 3.4
Blend File: Barbershop - Compute: NVIDIA CUDA
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.05, N = 3
153.30
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
158.69
40
80
120
160
200
Blender 3.4
Blend File: Classroom - Compute: NVIDIA OptiX
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.07, N = 3
24.44
AMD Ryzen 7 5700X
SE +/- 0.04, N = 3
24.45
6
12
18
24
30
Blender 3.4
Blend File: Fishy Cat - Compute: NVIDIA OptiX
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.07, N = 3
17.46
AMD Ryzen 7 5700X
SE +/- 0.17, N = 6
18.02
4
8
12
16
20
Blender 3.4
Blend File: Barbershop - Compute: NVIDIA OptiX
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.19, N = 3
87.01
AMD Ryzen 7 5700X
SE +/- 0.12, N = 3
88.91
20
40
60
80
100

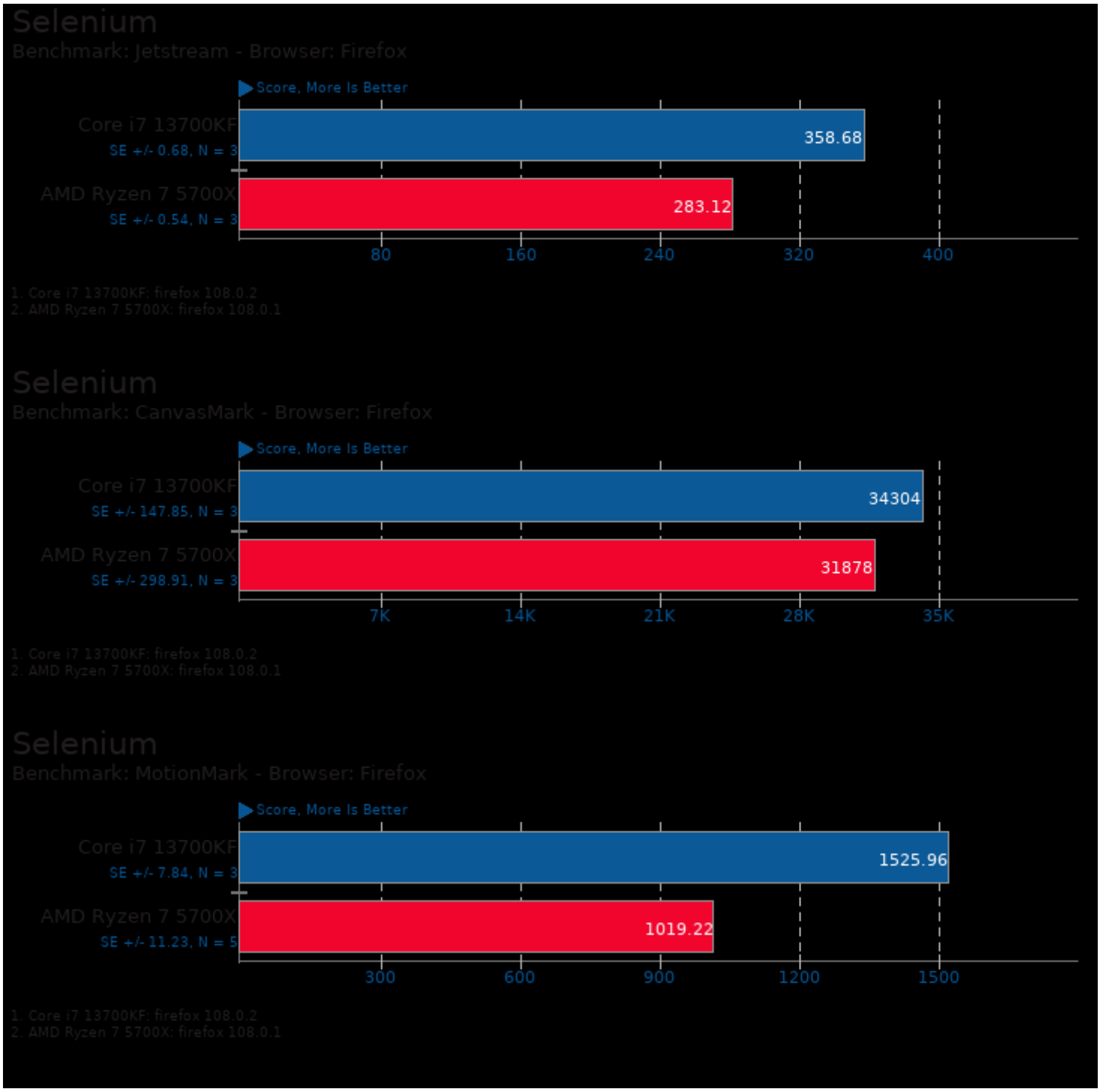

Blender 3.4
Blend File: Pabellon Barcelona - Compute: CPU-Only
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 1.45, N = 3
253.21
AMD Ryzen 7 5700X
SE +/- 0.27, N = 3
556.93
120
240
360
480
600
Blender 3.4
Blend File: Pabellon Barcelona - Compute: NVIDIA CUDA
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.02, N = 3
90.30
AMD Ryzen 7 5700X
SE +/- 0.13, N = 3
89.31
20
40
60
80
100
Blender 3.4
Blend File: Pabellon Barcelona - Compute: NVIDIA OptiX
Seconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
26.81
AMD Ryzen 7 5700X
SE +/- 0.02, N = 3
26.89
6
12
18
24
30
PyPerformance 1.0.0
Benchmark: go
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.33, N = 3
140
AMD Ryzen 7 5700X
196
40
80
120
160
200

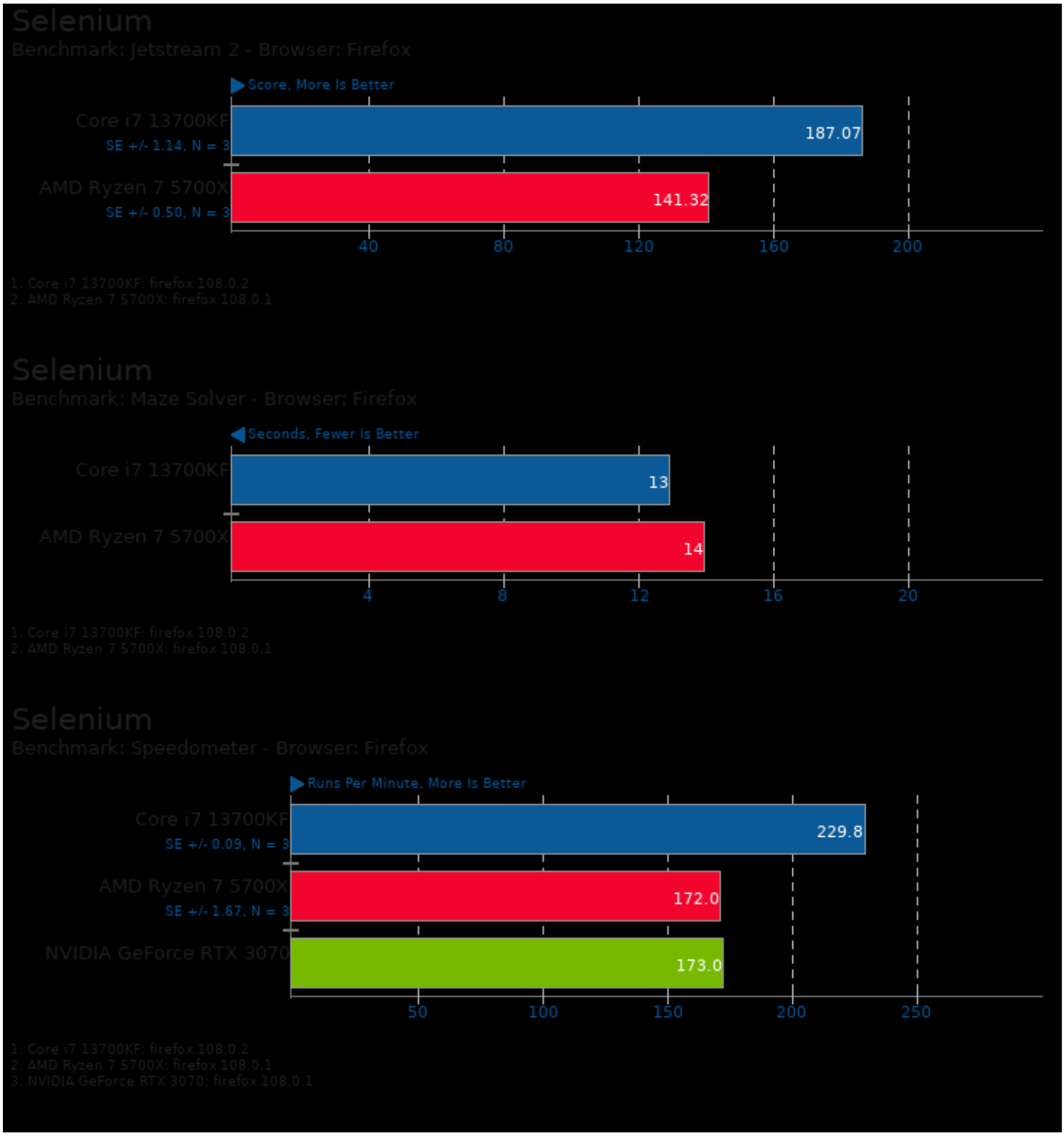

PyPerformance 1.0.0
Benchmark: 2to3
Milliseconds, Fewer Is Better
Core i7 13700KF
229
AMD Ryzen 7 5700X
319
70
140
210
280
350
PyPerformance 1.0.0
Benchmark: chaos
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.06, N = 3
68.7
AMD Ryzen 7 5700X
102.0
20
40
60
80
100
PyPerformance 1.0.0
Benchmark: float
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
69.7
AMD Ryzen 7 5700X
103.0
20
40
60
80
100
PyPerformance 1.0.0
Benchmark: nbody
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.17, N = 3
73.3
AMD Ryzen 7 5700X
118.0
30
60
90
120
150

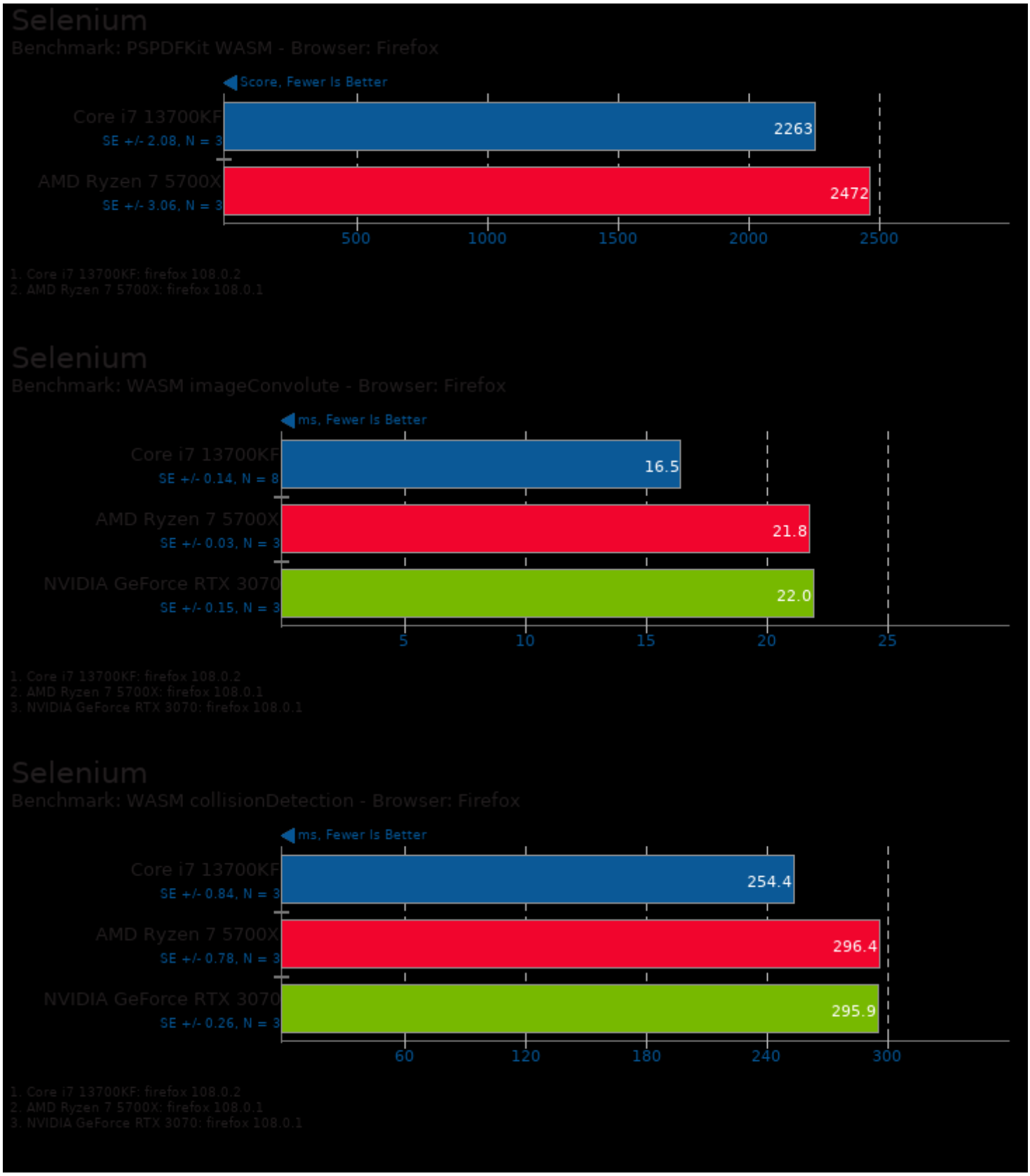

PyPerformance 1.0.0
Benchmark: pathlib
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.42, N = 3
72.0
AMD Ryzen 7 5700X
122.0
30
60
90
120
150
PyPerformance 1.0.0
Benchmark: raytrace
Milliseconds, Fewer Is Better
Core i7 13700KF
281
AMD Ryzen 7 5700X
SE +/- 1.00, N = 3
408
90
180
270
360
450
PyPerformance 1.0.0
Benchmark: json_loads
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
17.1
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
23.2
6
12
18
24
30
PyPerformance 1.0.0
Benchmark: crypto_pyaes
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.00, N = 3
67.4
AMD Ryzen 7 5700X
101.0
20
40
60
80
100


PyPerformance 1.0.0
Benchmark: regex_compile
Milliseconds, Fewer Is Better
Core i7 13700KF
106
AMD Ryzen 7 5700X
156
30
60
90
120
150
PyPerformance 1.0.0
Benchmark: python_startup
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.03, N = 3
22.8
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
30.3
7
14
21
28
35
PyPerformance 1.0.0
Benchmark: django_template
Milliseconds, Fewer Is Better
Core i7 13700KF
SE +/- 0.09, N = 3
33.3
AMD Ryzen 7 5700X
SE +/- 0.06, N = 3
47.2
11
22
33
44
55
PyPerformance 1.0.0
Benchmark: pickle_pure_python
Milliseconds, Fewer Is Better
Core i7 13700KF
269
AMD Ryzen 7 5700X
399
90
180
270
360
450


Selenium
Benchmark: ARES-6 - Browser: Firefox
ms, Fewer Is Better
Core i7 13700KF
SE +/- 0.00, N = 3
19.45
AMD Ryzen 7 5700X
SE +/- 0.04, N = 3
26.07
NVIDIA GeForce RTX 3070
SE +/- 0.07, N = 3
25.94
6
12
18
24
30
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
3. NVIDIA GeForce RTX 3070: firefox 108.0.1
Selenium
Benchmark: Kraken - Browser: Firefox
ms, Fewer Is Better
Core i7 13700KF
SE +/- 3.41, N = 3
565.9
AMD Ryzen 7 5700X
SE +/- 1.92, N = 3
663.9
NVIDIA GeForce RTX 3070
SE +/- 1.97, N = 3
664.6
140
280
420
560
700
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
3. NVIDIA GeForce RTX 3070: firefox 108.0.1
Selenium
Benchmark: Octane - Browser: Firefox
Geometric Mean, More Is Better
Core i7 13700KF
SE +/- 584.47, N = 3
47147
AMD Ryzen 7 5700X
SE +/- 292.35, N = 3
36562
NVIDIA GeForce RTX 3070
SE +/- 394.26, N = 4
36400
10K
20K
30K
40K
50K
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
3. NVIDIA GeForce RTX 3070: firefox 108.0.1

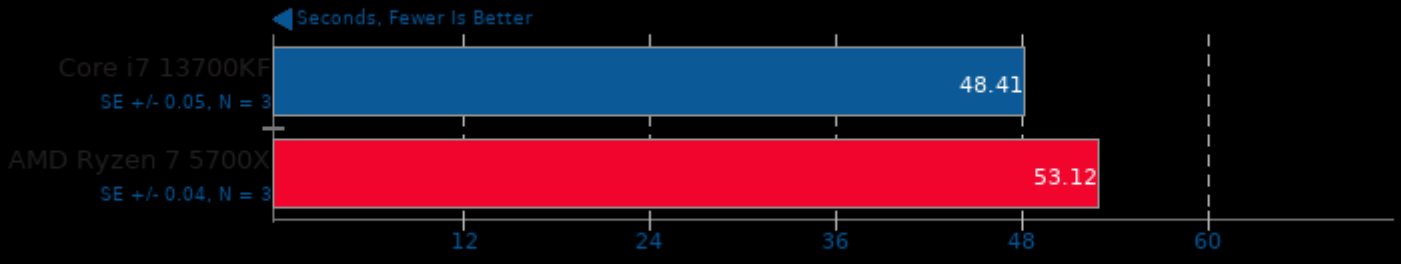

Selenium
Benchmark: Jetstream - Browser: Firefox
Score, More Is Better
Core i7 13700KF
SE +/- 0.68, N = 3
358.68
AMD Ryzen 7 5700X
SE +/- 0.54, N = 3
283.12
80
160
240
320
400
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
Selenium
Benchmark: CanvasMark - Browser: Firefox
Score, More Is Better
Core i7 13700KF
SE +/- 147.85, N = 3
34304
AMD Ryzen 7 5700X
SE +/- 298.91, N = 3
31878
7K
14K
21K
28K
35K
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
Selenium
Benchmark: MotionMark - Browser: Firefox
Score, More Is Better
Core i7 13700KF
SE +/- 7.84, N = 3
1525.96
AMD Ryzen 7 5700X
SE +/- 11.23, N = 5
1019.22
300
600
900
1200
1500
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1


Selenium
Benchmark: Jetstream 2 - Browser: Firefox
Score, More Is Better
Core i7 13700KF
SE +/- 1.14, N = 3
187.07
AMD Ryzen 7 5700X
SE +/- 0.50, N = 3
141.32
40
80
120
160
200
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
Selenium
Benchmark: Maze Solver - Browser: Firefox
Seconds, Fewer Is Better
Core i7 13700KF
13
AMD Ryzen 7 5700X
14
4
8
12
16
20
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
Selenium
Benchmark: Speedometer - Browser: Firefox
Runs Per Minute, More Is Better
Core i7 13700KF
SE +/- 0.09, N = 3
229.8
AMD Ryzen 7 5700X
SE +/- 1.67, N = 3
172.0
NVIDIA GeForce RTX 3070
173.0
50
100
150
200
250
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
3. NVIDIA GeForce RTX 3070: firefox 108.0.1


Selenium
Benchmark: PSPDFKit WASM - Browser: Firefox
Score, Fewer Is Better
Core i7 13700KF
SE +/- 2.08, N = 3
2263
AMD Ryzen 7 5700X
SE +/- 3.06, N = 3
2472
500
1000
1500
2000
2500
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
Selenium
Benchmark: WASM imageConvolute - Browser: Firefox
ms, Fewer Is Better
Core i7 13700KF
SE +/- 0.14, N = 8
16.5
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
21.8
NVIDIA GeForce RTX 3070
SE +/- 0.15, N = 3
22.0
5
10
15
20
25
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
3. NVIDIA GeForce RTX 3070: firefox 108.0.1
Selenium
Benchmark: WASM collisionDetection - Browser: Firefox
ms, Fewer Is Better
Core i7 13700KF
SE +/- 0.84, N = 3
254.4
AMD Ryzen 7 5700X
SE +/- 0.78, N = 3
296.4
NVIDIA GeForce RTX 3070
SE +/- 0.26, N = 3
295.9
60
120
180
240
300
1. Core i7 13700KF: firefox 108.0.2
2. AMD Ryzen 7 5700X: firefox 108.0.1
3. NVIDIA GeForce RTX 3070: firefox 108.0.1

Git

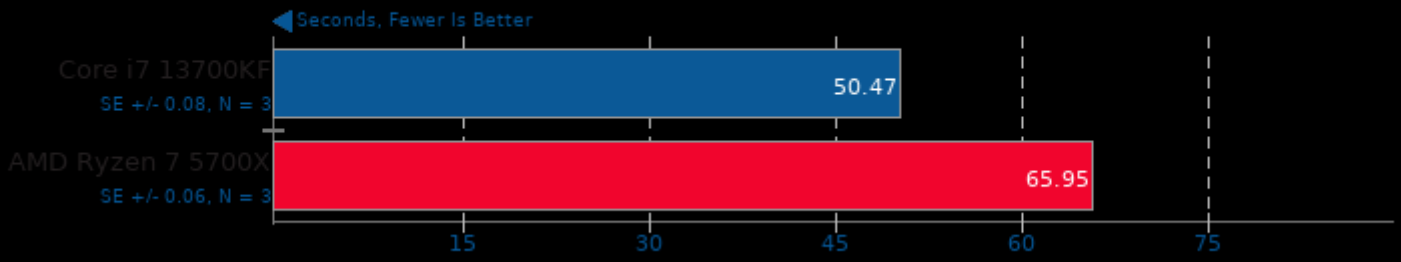
Time To Complete Common Git Commands



1: git version 2.36.1.windows.1

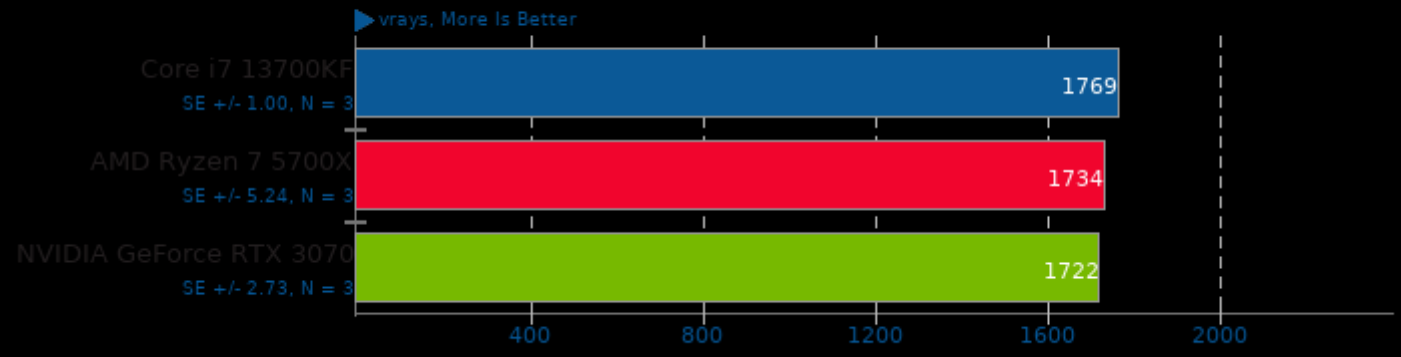
Tesseract OCR v4.0.0.20181030

Time To OCR 7 Images



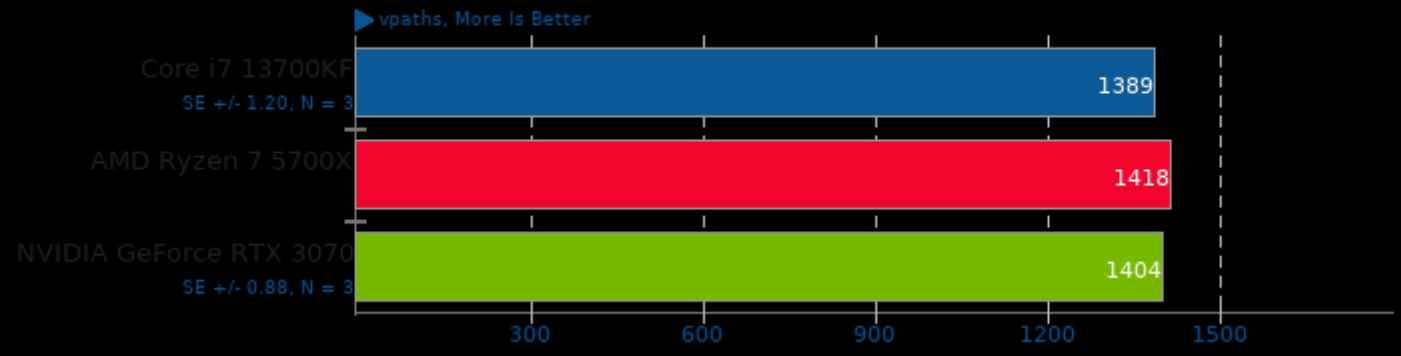
Chaos Group V-RAY 5.02

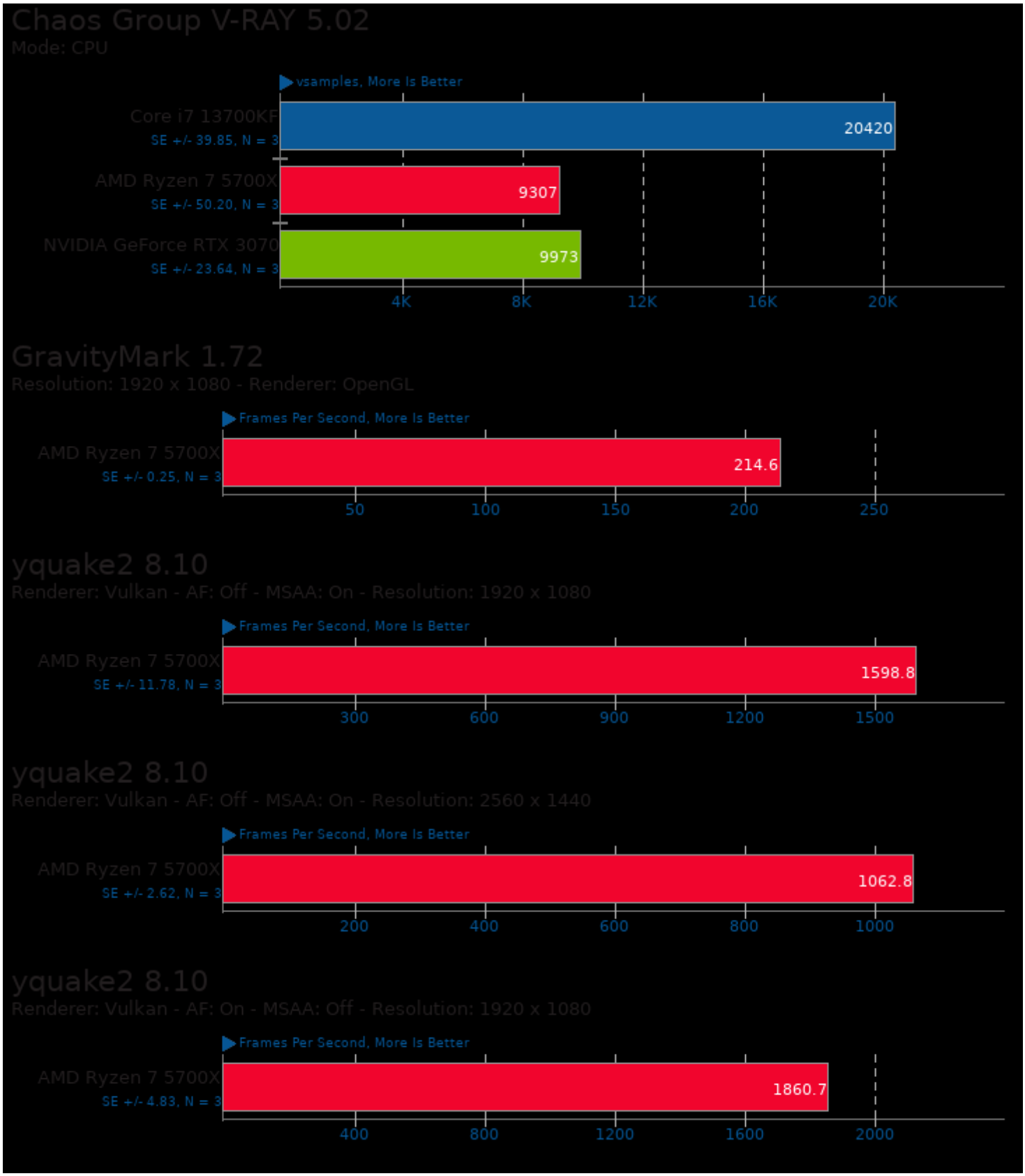
Mode: NVIDIA RTX GPU

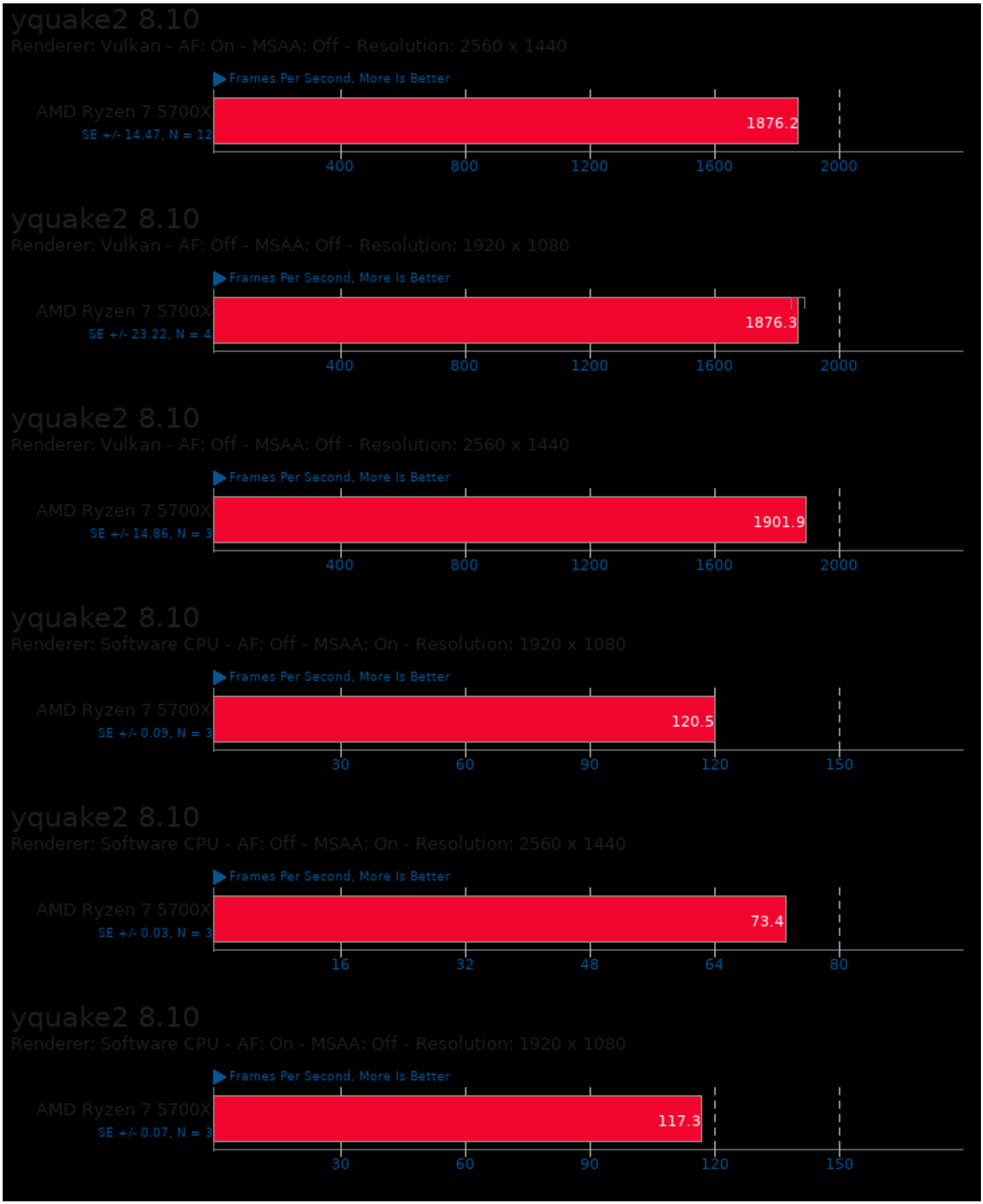


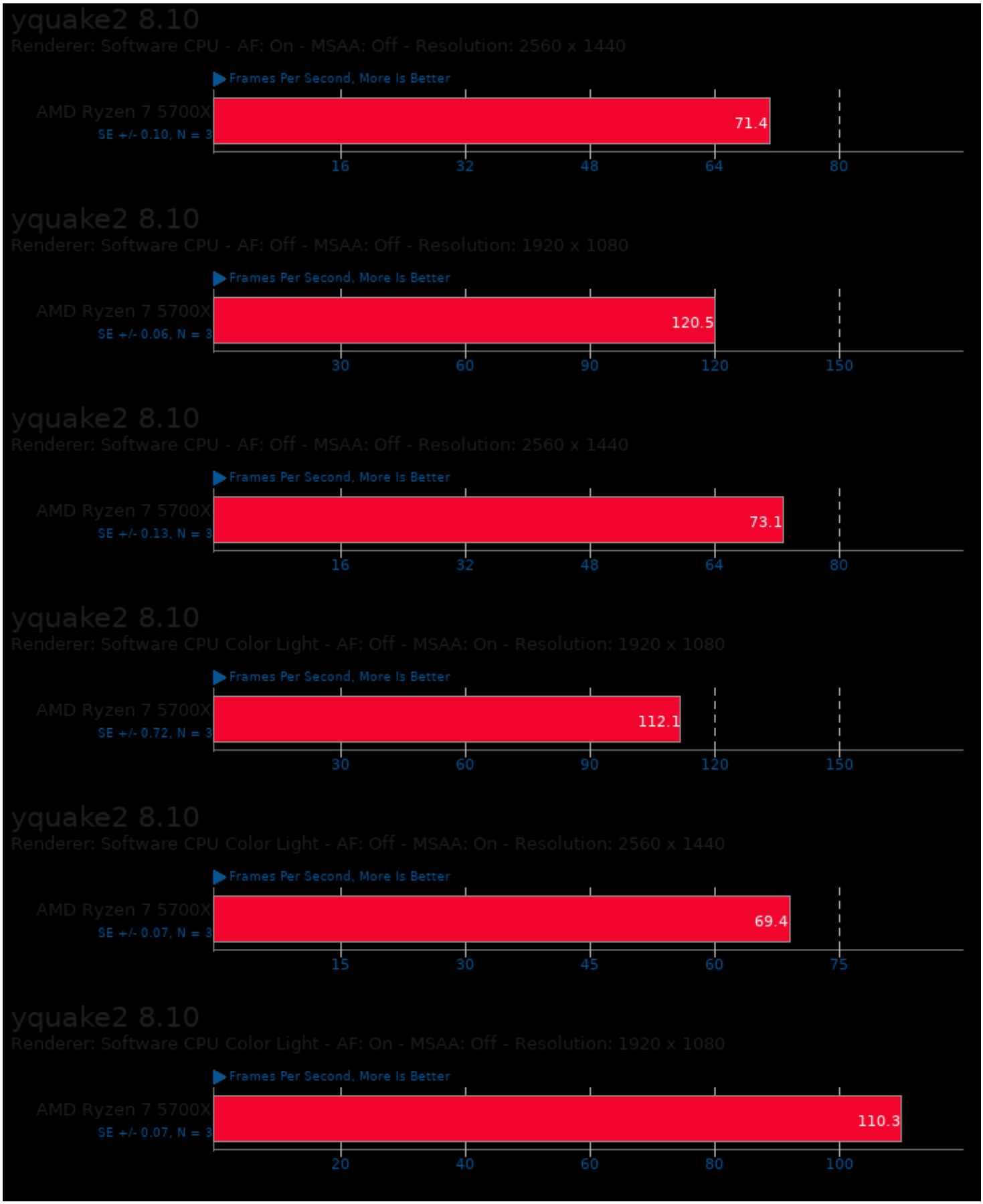
Chaos Group V-RAY 5.02

Mode: NVIDIA CUDA GPU



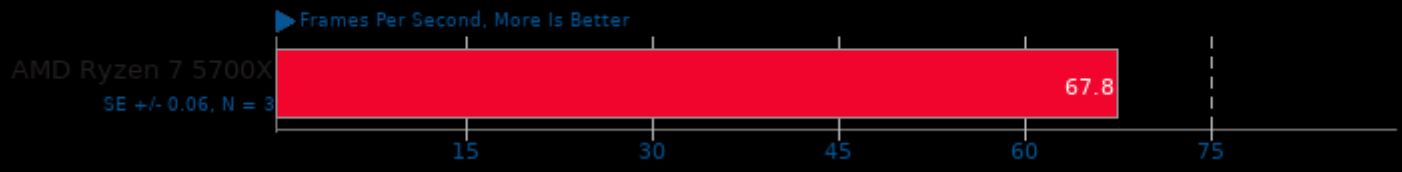

Chaos Group V-RAY 5.02
Mode: CPU
vsamples, More Is Better
Core i7 13700KF
SE +/- 39.85, N = 3
20420
AMD Ryzen 7 5700X
SE +/- 50.20, N = 3
9307
NVIDIA GeForce RTX 3070
SE +/- 23.64, N = 3
9973
4K
8K
12K
16K
20K
GravityMark 1.72
Resolution: 1920 x 1080 - Renderer: OpenGL
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.25, N = 3
214.6
50
100
150
200
250
yquake2 8.10
Renderer: Vulkan - AF: Off - MSAA: On - Resolution: 1920 x 1080
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 11.78, N = 3
1598.8
300
600
900
1200
1500
yquake2 8.10
Renderer: Vulkan - AF: Off - MSAA: On - Resolution: 2560 x 1440
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 2.62, N = 3
1062.8
200
400
600
800
1000
yquake2 8.10
Renderer: Vulkan - AF: On - MSAA: Off - Resolution: 1920 x 1080
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 4.83, N = 3
1860.7
400
800
1200
1600
2000


yquake2 8.10
Renderer: Vulkan - AF: On - MSAA: Off - Resolution: 2560 x 1440
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 14.47, N = 12
1876.2
400
800
1200
1600
2000
yquake2 8.10
Renderer: Vulkan - AF: Off - MSAA: Off - Resolution: 1920 x 1080
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 23.22, N = 4
1876.3
400
800
1200
1600
2000
yquake2 8.10
Renderer: Vulkan - AF: Off - MSAA: Off - Resolution: 2560 x 1440
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 14.86, N = 3
1901.9
400
800
1200
1600
2000
yquake2 8.10
Renderer: Software CPU - AF: Off - MSAA: On - Resolution: 1920 x 1080
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.09, N = 3
120.5
30
60
90
120
150
yquake2 8.10
Renderer: Software CPU - AF: Off - MSAA: On - Resolution: 2560 x 1440
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
73.4
16
32
48
64
80
yquake2 8.10
Renderer: Software CPU - AF: On - MSAA: Off - Resolution: 1920 x 1080
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.07, N = 3
117.3
30
60
90
120
150


yquake2 8.10
Renderer: Software CPU - AF: On - MSAA: Off - Resolution: 2560 x 1440
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.10, N = 3
71.4
16
32
48
64
80
yquake2 8.10
Renderer: Software CPU - AF: Off - MSAA: Off - Resolution: 1920 x 1080
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.06, N = 3
120.5
30
60
90
120
150
yquake2 8.10
Renderer: Software CPU - AF: Off - MSAA: Off - Resolution: 2560 x 1440
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.13, N = 3
73.1
16
32
48
64
80
yquake2 8.10
Renderer: Software CPU Color Light - AF: Off - MSAA: On - Resolution: 1920 x 1080
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.72, N = 3
112.1
30
60
90
120
150
yquake2 8.10
Renderer: Software CPU Color Light - AF: Off - MSAA: On - Resolution: 2560 x 1440
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.07, N = 3
69.4
15
30
45
60
75
yquake2 8.10
Renderer: Software CPU Color Light - AF: On - MSAA: Off - Resolution: 1920 x 1080
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.07, N = 3
110.3
20
40
60
80
100

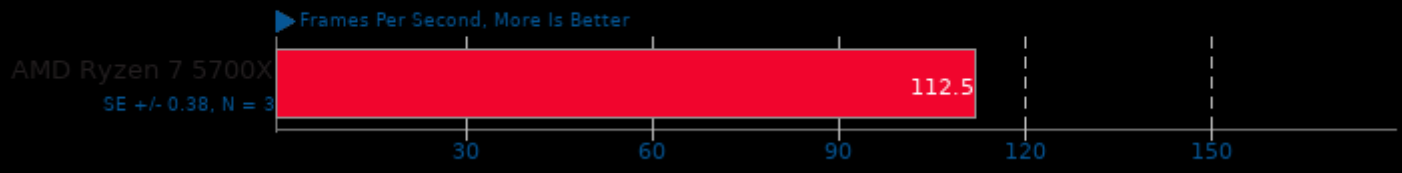
yquake2 8.10

Renderer: Software CPU Color Light - AF: On - MSAA: Off - Resolution: 2560 x 1440



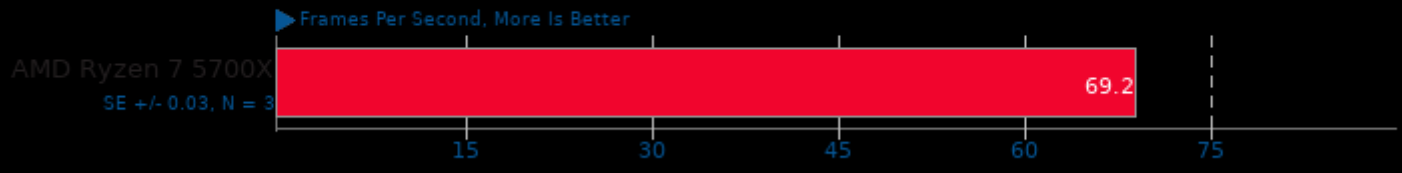
yquake2 8.10

Renderer: Software CPU Color Light - AF: Off - MSAA: Off - Resolution: 1920 x 1080



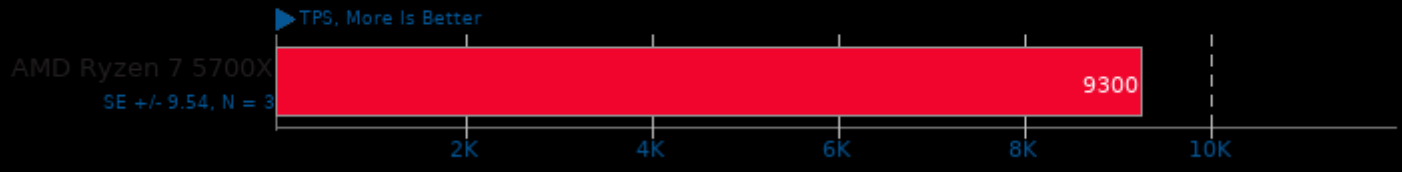
yquake2 8.10

Renderer: Software CPU Color Light - AF: Off - MSAA: Off - Resolution: 2560 x 1440



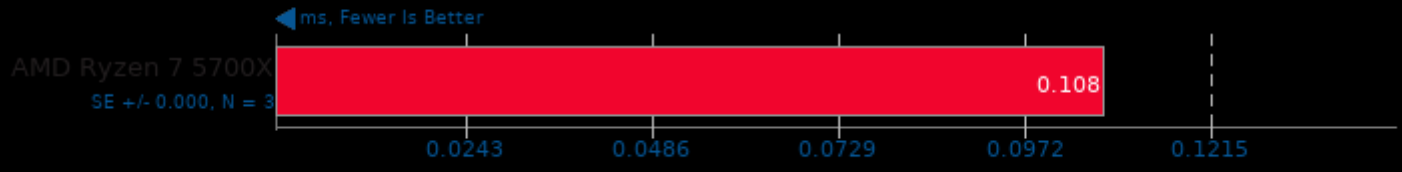
PostgreSQL 15

Scaling Factor: 1000 - Clients: 1 - Mode: Read Only



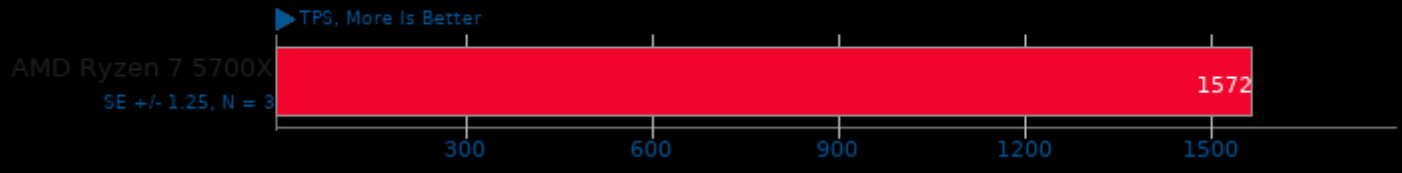
PostgreSQL 15

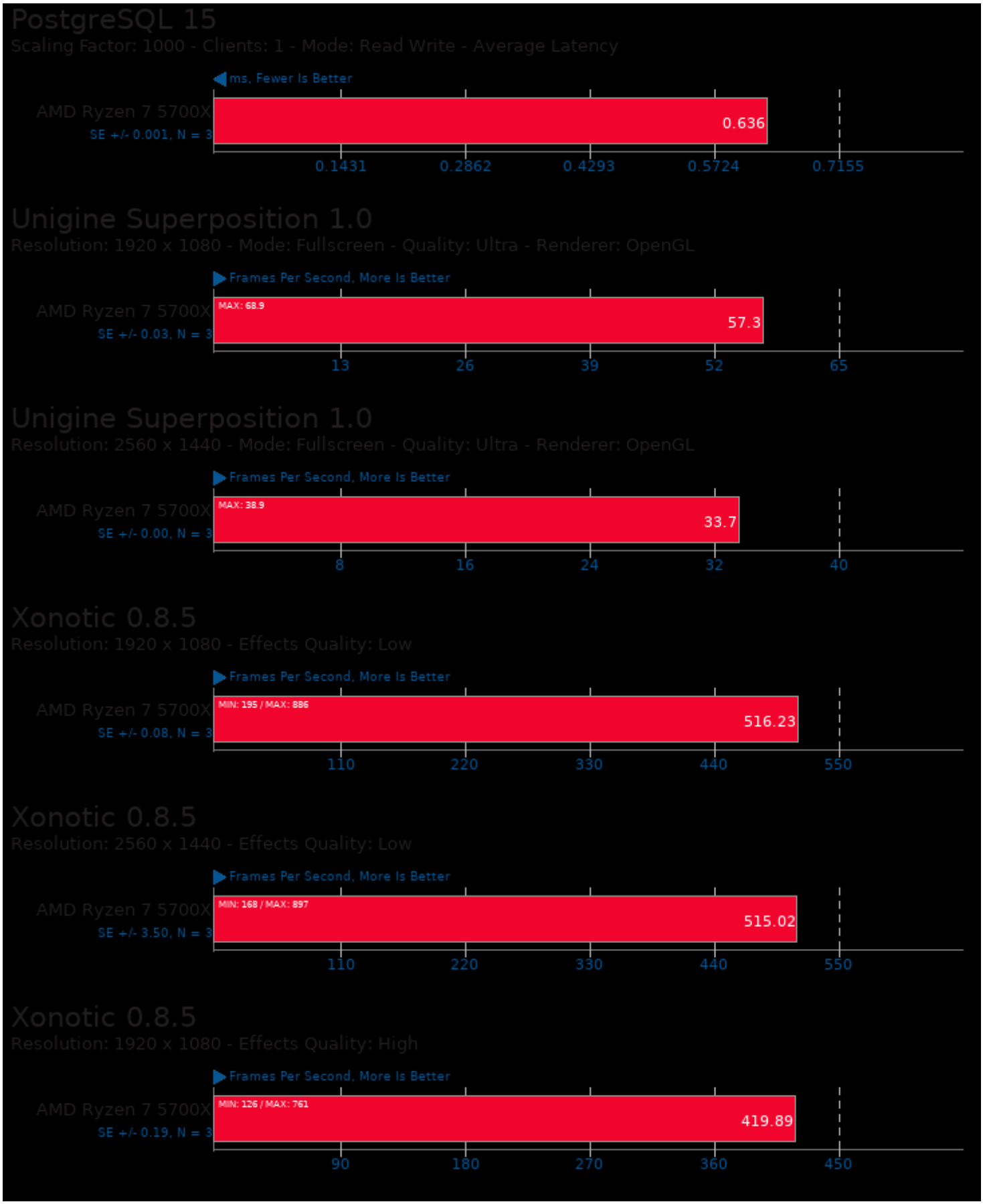
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only - Average Latency

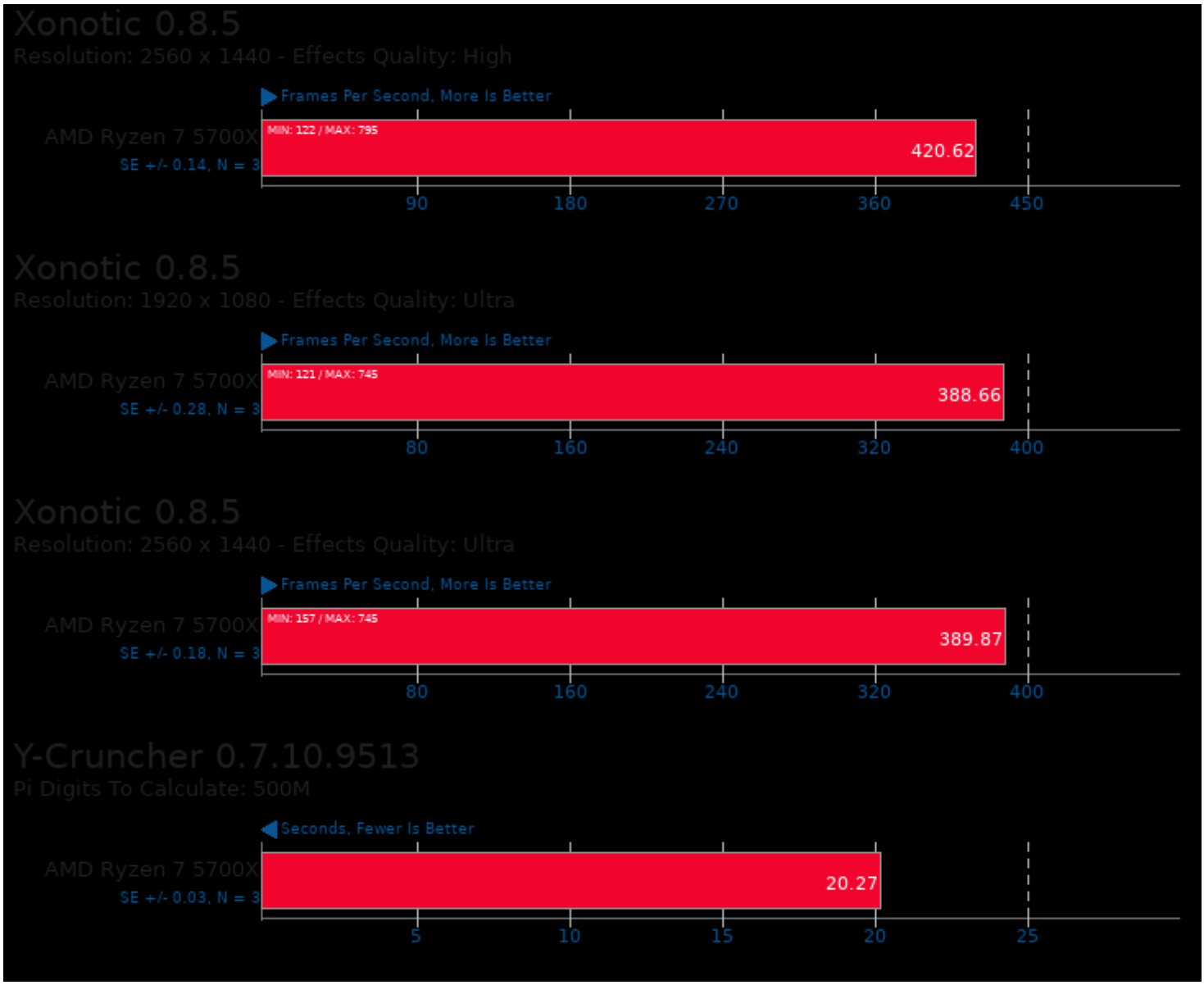


PostgreSQL 15

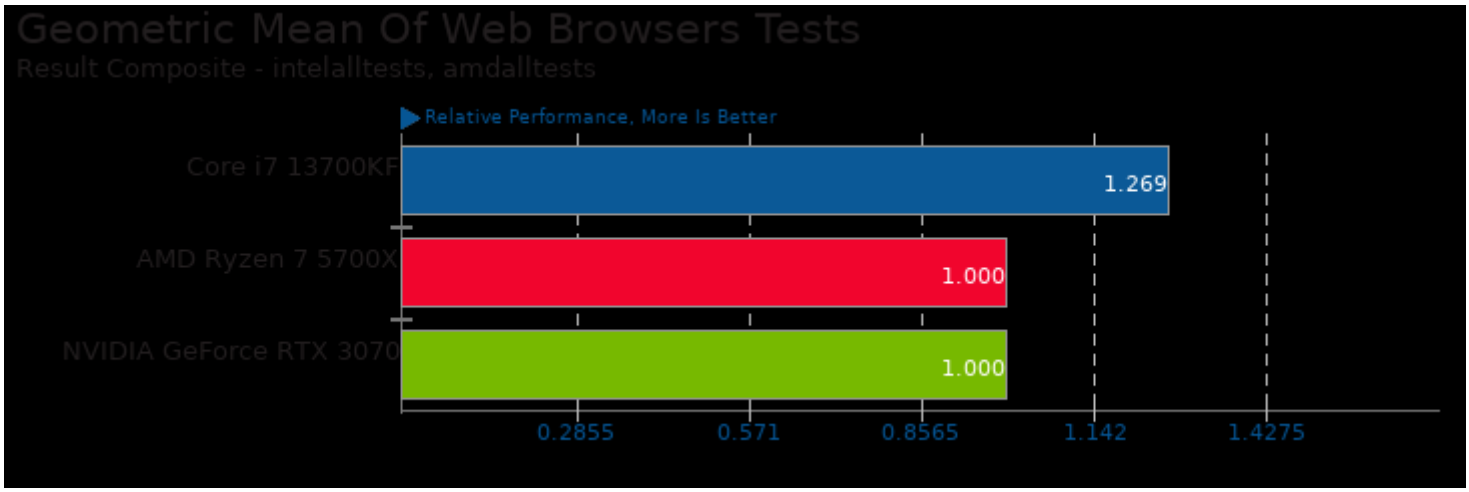
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write



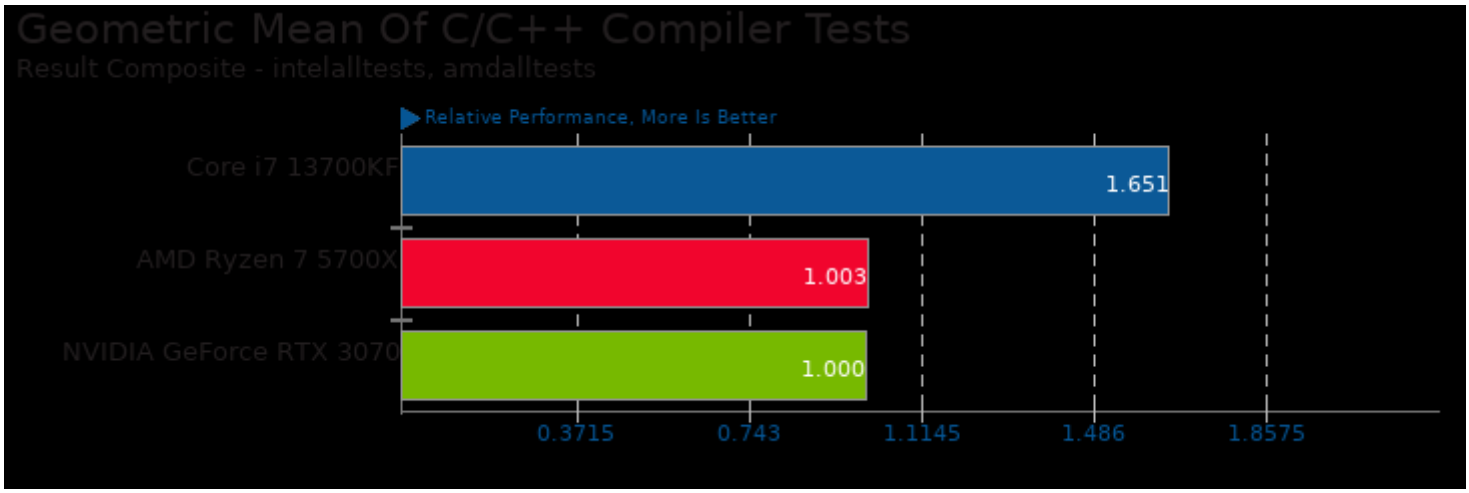

PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
AMD Ryzen 7 5700X
SE +/- 0.001, N = 3
0.636
0.1431
0.2862
0.4293
0.5724
0.7155
Unigine Superposition 1.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Quality: Ultra - Renderer: OpenGL
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
MAX: 68.9
57.3
13
26
39
52
65
Unigine Superposition 1.0
Resolution: 2560 x 1440 - Mode: Fullscreen - Quality: Ultra - Renderer: OpenGL
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.00, N = 3
MAX: 38.9
33.7
8
16
24
32
40
Xonotic 0.8.5
Resolution: 1920 x 1080 - Effects Quality: Low
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.08, N = 3
MIN: 195 / MAX: 886
516.23
110
220
330
440
550
Xonotic 0.8.5
Resolution: 2560 x 1440 - Effects Quality: Low
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 3.50, N = 3
MIN: 168 / MAX: 897
515.02
110
220
330
440
550
Xonotic 0.8.5
Resolution: 1920 x 1080 - Effects Quality: High
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.19, N = 3
MIN: 126 / MAX: 761
419.89
90
180
270
360
450


Xonotic 0.8.5
Resolution: 2560 x 1440 - Effects Quality: High
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.14, N = 3
MIN: 122 / MAX: 795
420.62
90
180
270
360
450
Xonotic 0.8.5
Resolution: 1920 x 1080 - Effects Quality: Ultra
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.28, N = 3
MIN: 121 / MAX: 745
388.66
80
160
240
320
400
Xonotic 0.8.5
Resolution: 2560 x 1440 - Effects Quality: Ultra
Frames Per Second, More Is Better
AMD Ryzen 7 5700X
SE +/- 0.18, N = 3
MIN: 157 / MAX: 745
389.87
80
160
240
320
400
Y-Cruncher 0.7.10.9513
Pi Digits To Calculate: 500M
Seconds, Fewer Is Better
AMD Ryzen 7 5700X
SE +/- 0.03, N = 3
20.27
5
10
15
20
25

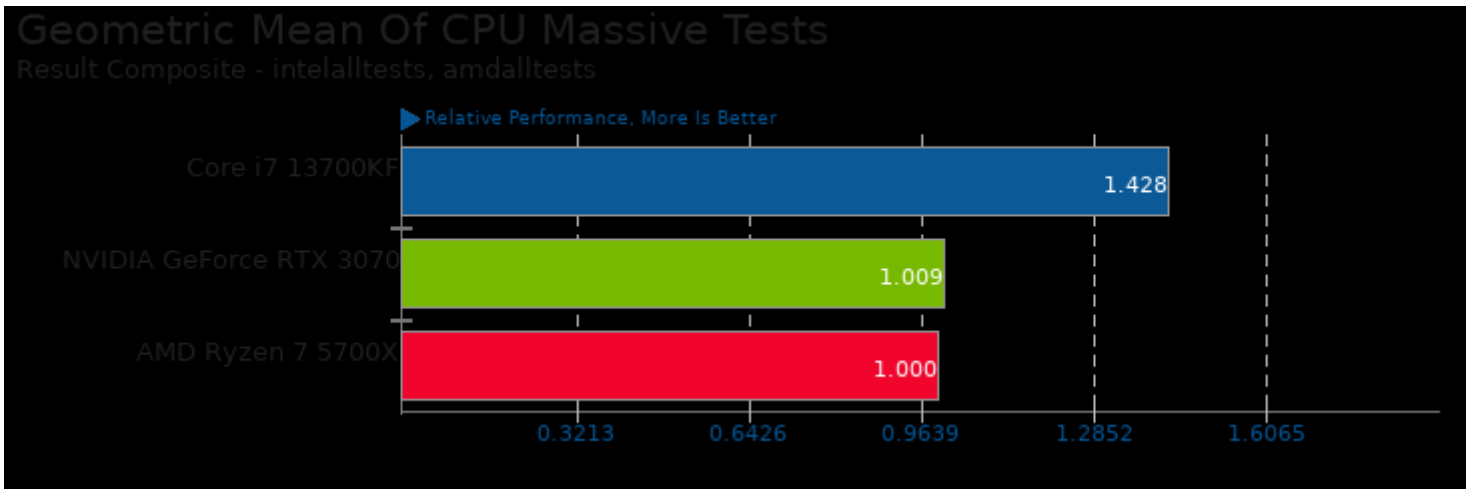
These geometric means are based upon test groupings / test suites for this result file.



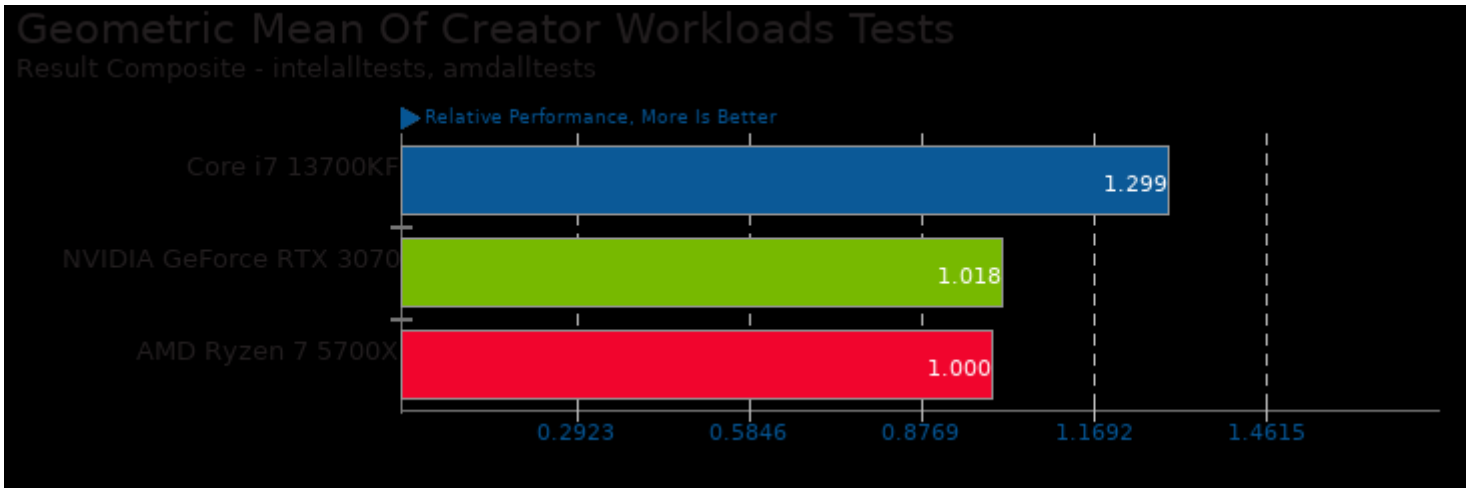
Geometric mean based upon tests: system/selenium



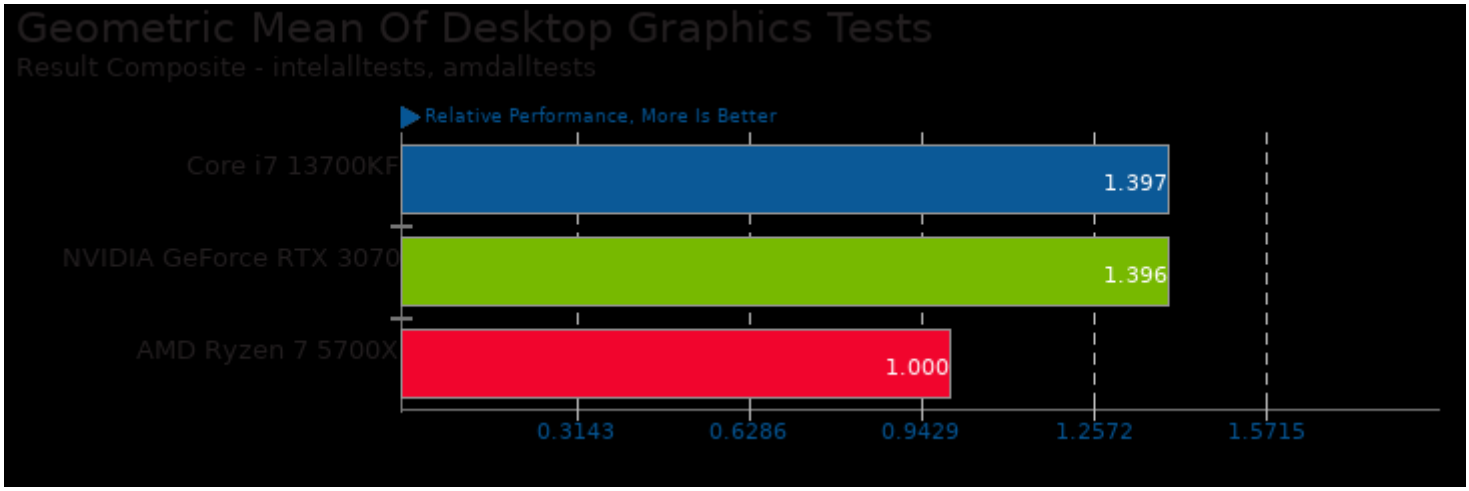
Geometric mean based upon tests: pts/compress-7zip, pts/pgbench, pts/john-the-ripper, pts/dav1d, pts/x264, pts/aircrack-ng and pts/svt-av1



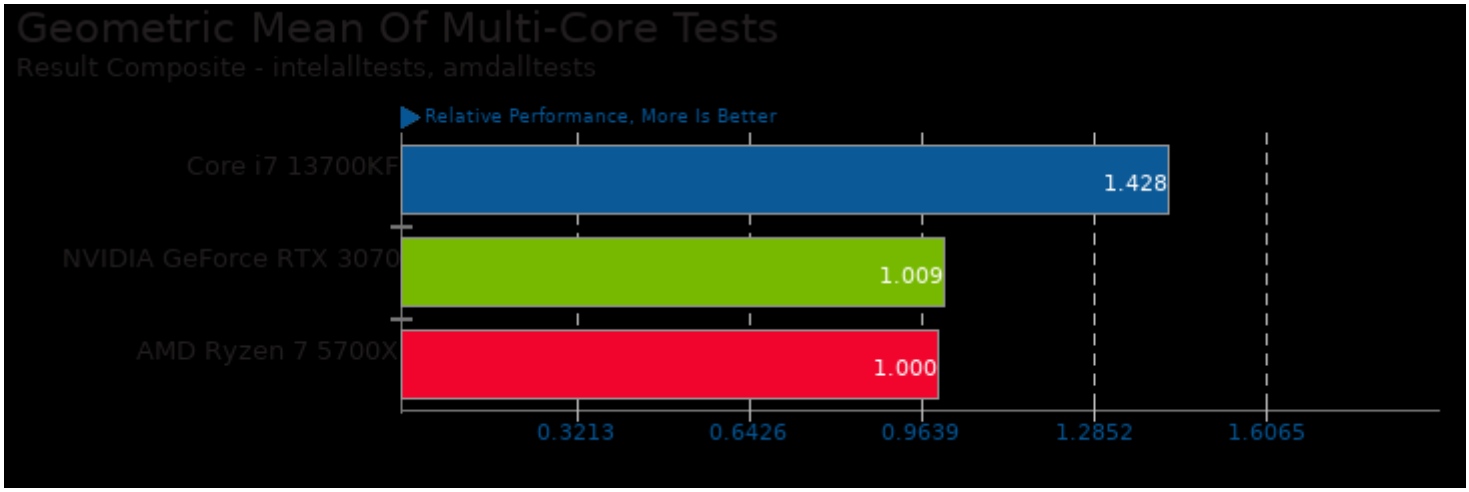
Geometric mean based upon tests: pts/compress-7zip, pts/dav1d, pts/svt-av1, pts/x264, pts/john-the-ripper, pts/pgbench, pts/v-ray, pts/blender, system/tesseract-ocr and pts/cpuminer-opt



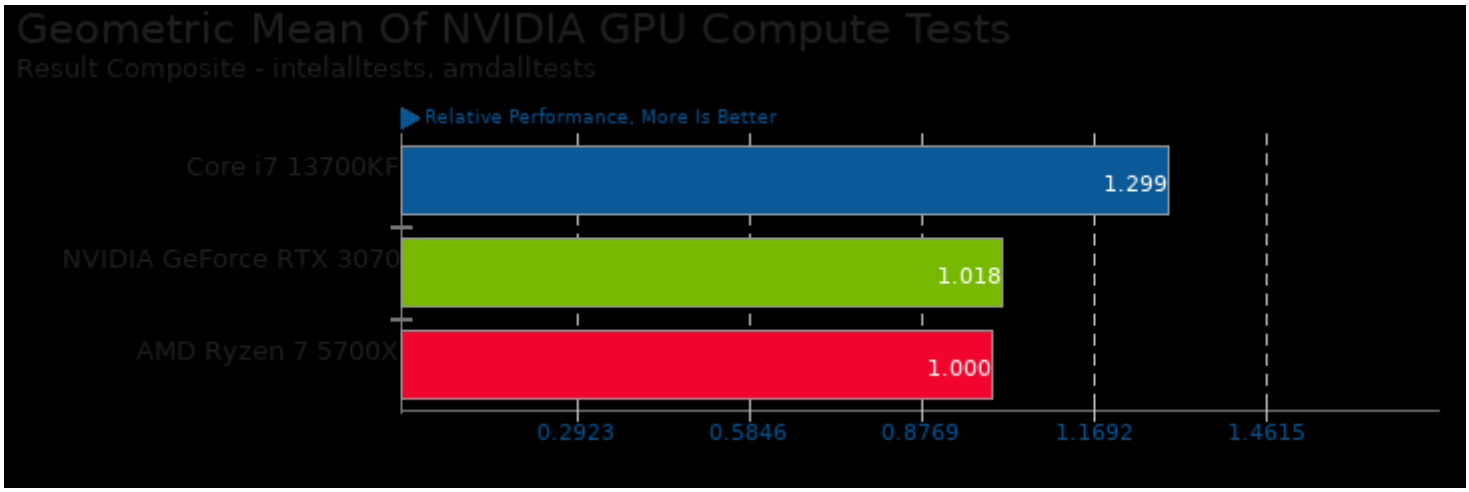
Geometric mean based upon tests: pts/blender, pts/v-ray, system/tesseract-ocr, pts/x264, pts/dav1d, pts/svt-av1 and pts/astcenc



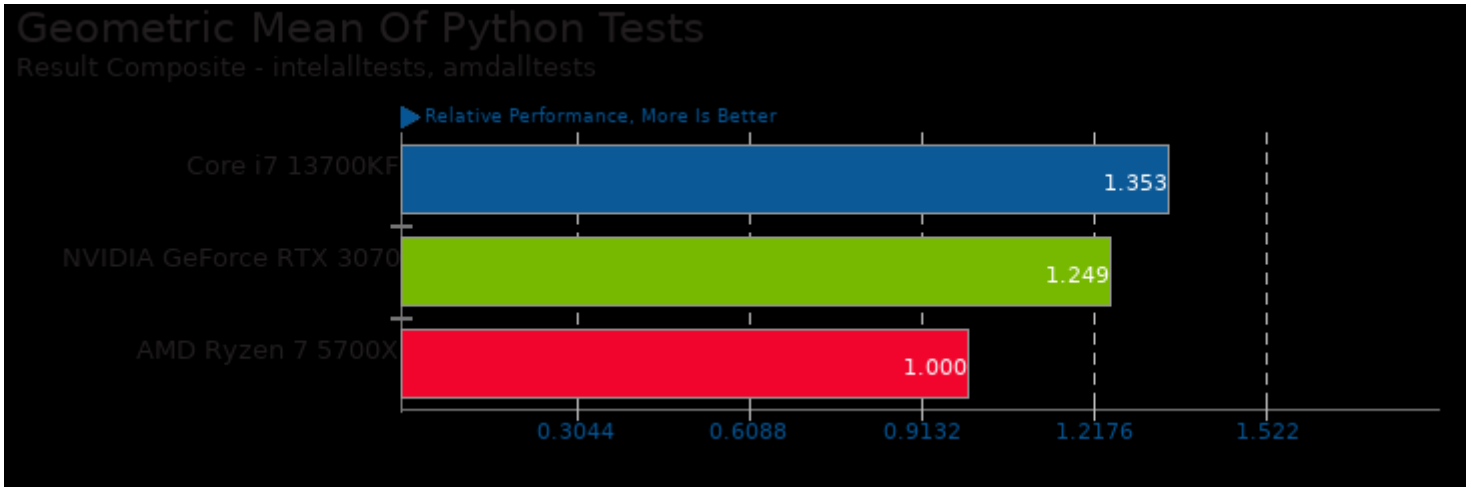
Geometric mean based upon tests: pts/xonotic and pts/paraview



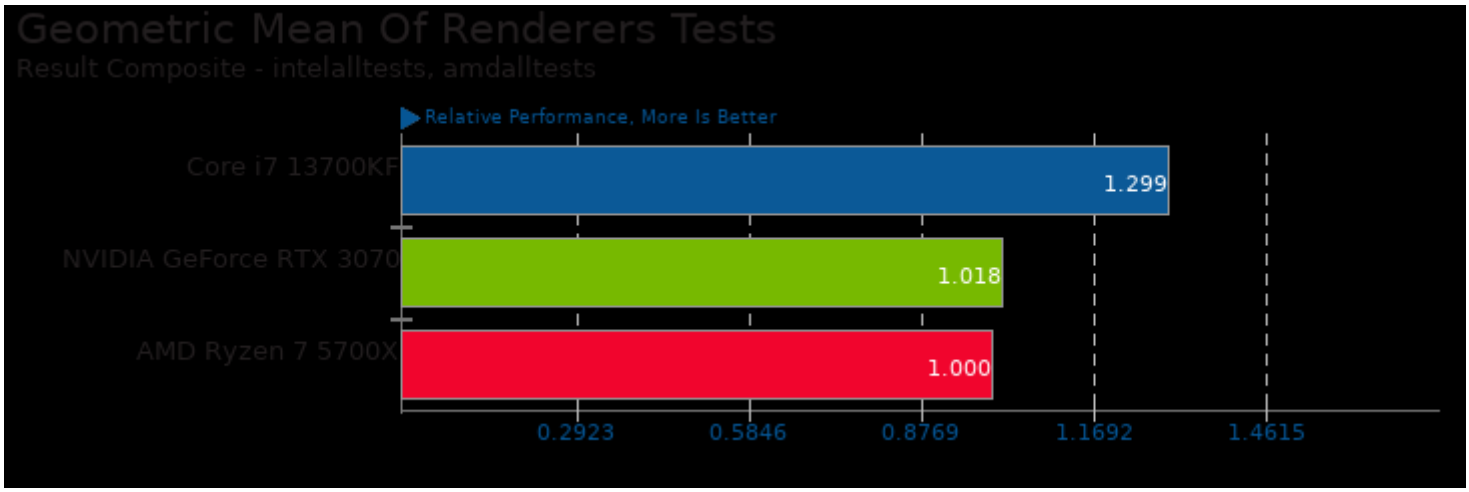
Geometric mean based upon tests: pts/blender, pts/cpuminer-opt, pts/aircrack-ng, pts/x264, pts/dav1d, pts/svt-av1, pts/john-the-ripper, pts/compress-7zip, pts/v-ray and pts/pgbench



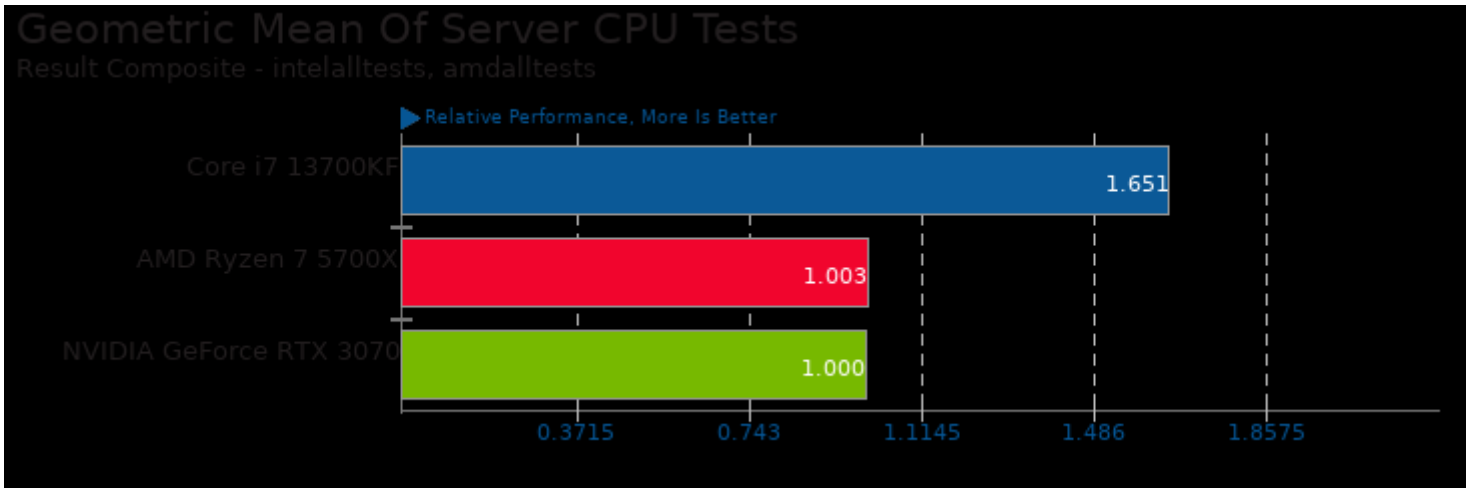
Geometric mean based upon tests: pts/hashcat, pts/v-ray and pts/blender



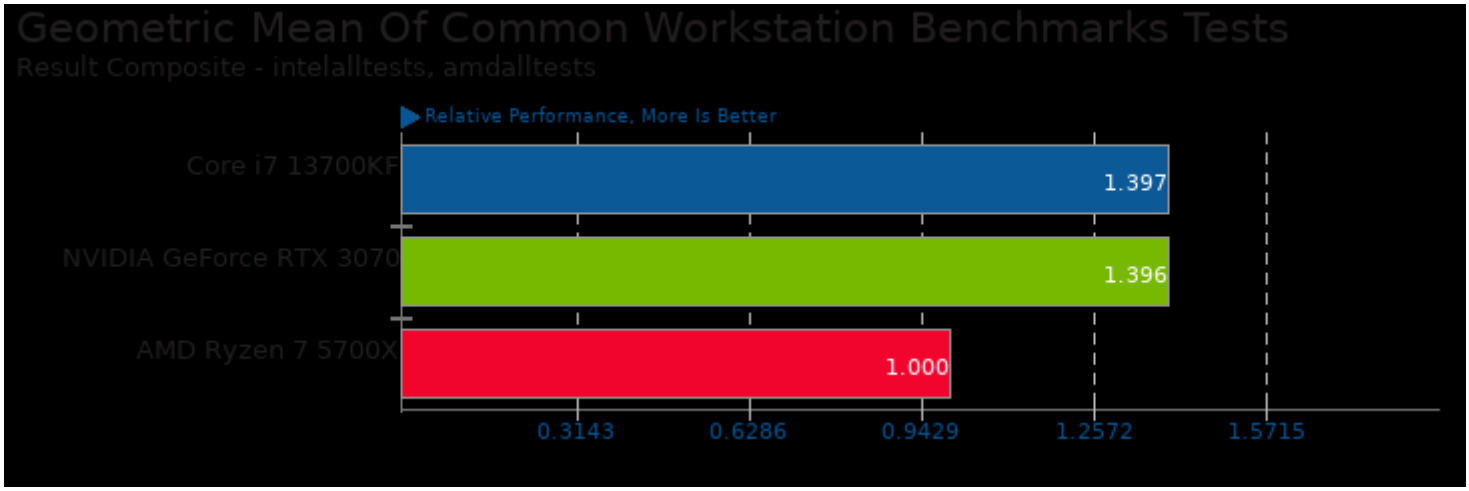
Geometric mean based upon tests: pts/paraview, pts/pyperformance and system/selenium



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



Geometric mean based upon tests: pts/john-the-ripper, pts/svt-av1, pts/x264, pts/dav1d, pts/compress-7zip, pts/blender, system/tesseract-ocr and pts/cpuminer-opt



Geometric mean based upon tests: pts/blender, pts/paraview and pts/git

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 06:09.