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ryzen-9-5950x-windows

AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3003 BIOS) and AMD Radeon RX 5700 XT 4GB on Microsoft Windows 10 Pro Build 19042 via the Phoronix Test Suite.

Automated Executive Summary

AMD Ryzen 9 5950X 16-Core - AMD Radeon RX 5700 XT 4GB had the most wins, coming in first place for 45% of the tests.

Test Systems:

AMD Ryzen 9 5950X 16-Core - AMD Radeon RX 5700 XT 4GB

AMD Ryzen 9 5950X 16-Core

Run 2

Run 3

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3003 BIOS), Memory: 2 x 8192 MB 4266MHz, Disk: 15GB Corsair Voyager 3.0 USB + 932GB Force MP600, Graphics: AMD Radeon RX 5700 XT 4GB, Network: Intel I211 Gigabit Connection + Realtek PCIe 2.5GbE + Intel Wi-Fi 6 AX200 160MHz

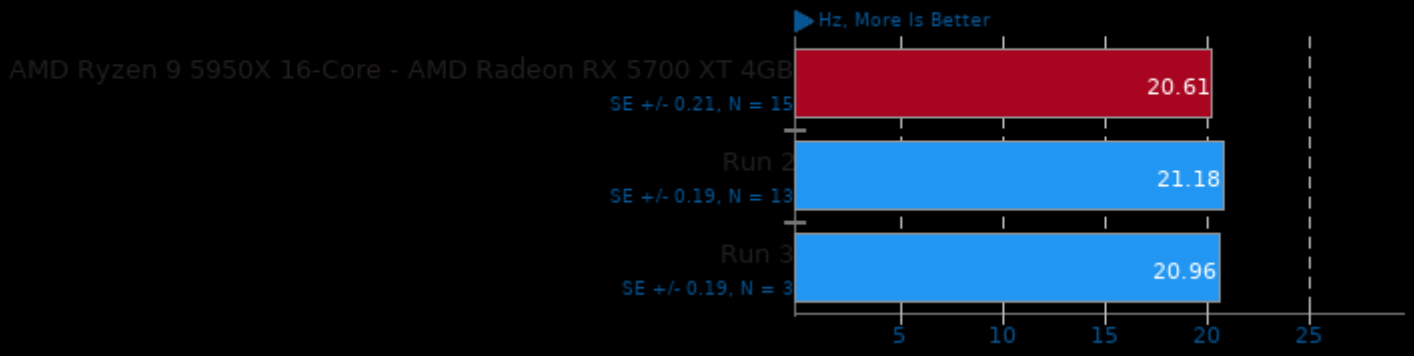
OS: Microsoft Windows 10 Pro Build 19042, Kernel: 10.0 (x86_64), Display Driver: 27.20.14501.18003, OpenCL: OpenCL 2.1 AMD-APP (3188.4), File-System: NTFS, Screen Resolution: 3840x2160

Security Notes: __user pointer sanitization: Disabled + Retpoline: Full + IBPB: Always + IBRS: Enabled + STIBP: Enabled

	AMD Ryzen 9 5950X 16-Core - AMD Radeon RX 5700 XT 4GB	AMD Ryzen 9 5950X 16-Core	Run 2	Run 3
Euler3D - C.C.F (Hz)	**20.611**		**21.178**	20.957
Normalized	97.32%		100%	98.96%
Standard Deviation	4%		3.3%	1.6%
Maxon Cinebench - Multi-Core (Score)	**24584**		25098	**25125**
Normalized	97.85%		99.89%	100%
Standard Deviation	3.8%		0.1%	0.1%
Novabench - CPU (CPU Score)	**854**		819	**813**
Normalized	100%		95.9%	95.2%
Standard Deviation	1.4%		0.4%	0.5%
Novabench - GPU (GFLOPS)	11339		11339	11339
Novabench - RAM (RAM Score)	358		358	358
Standard Deviation	0.6%		0.3%	
Novabench - RAM (MB/s)	**51717**		**51888**	51749
Normalized	99.67%		100%	99.73%
Standard Deviation	1.2%		0.8%	0.9%
Opus Codec Encoding - WAV To Opus Encode (sec)		**8.622**	**8.643**	8.634
Normalized		100%	99.76%	99.86%
Standard Deviation		0.3%	0.2%	0.2%
WinSAT - Disk (MB/s)	**35.02**		**27.39**	30.86
Normalized	100%		78.21%	88.12%
Standard Deviation	32.4%		0.4%	28.6%
WinSAT - Memory (MB/s)	**42512**		42395	**42343**
Normalized	100%		99.72%	99.6%
Standard Deviation	0.1%		0.1%	0.1%
WinSAT - CPU Encryption (MB/s)	21635		**21685**	**21409**
Normalized	99.77%		100%	98.73%
Standard Deviation	0.3%		0.4%	0.7%
WinSAT - CPU Compression (MB/s)	6959		**6942**	**6959**
Normalized	99.99%		99.76%	100%
Standard Deviation	0.1%		0.3%	0.4%

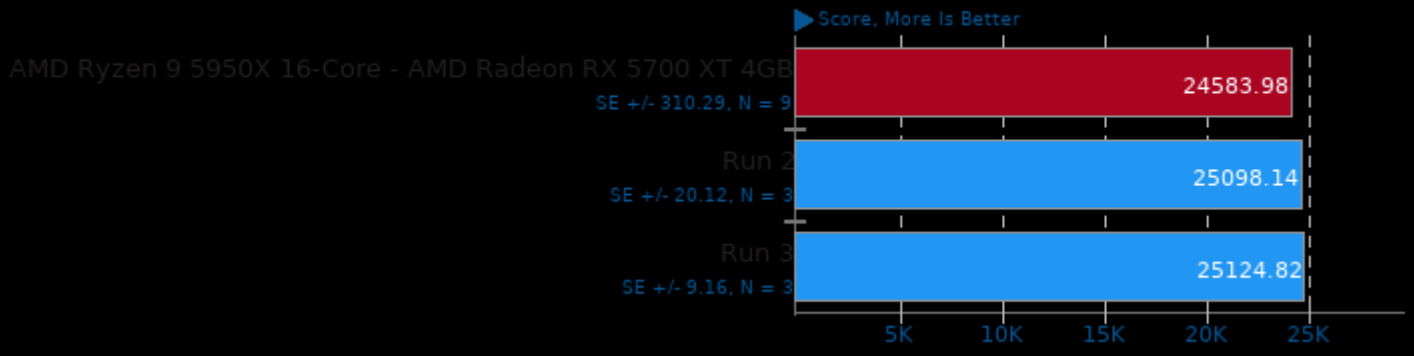
Euler3D

CFD Cycle Frequency



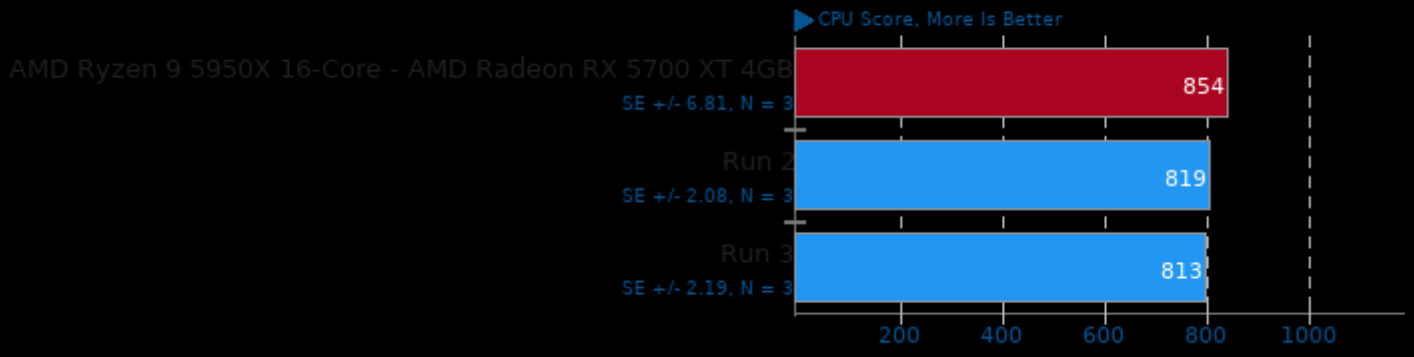
Maxon Cinebench 23

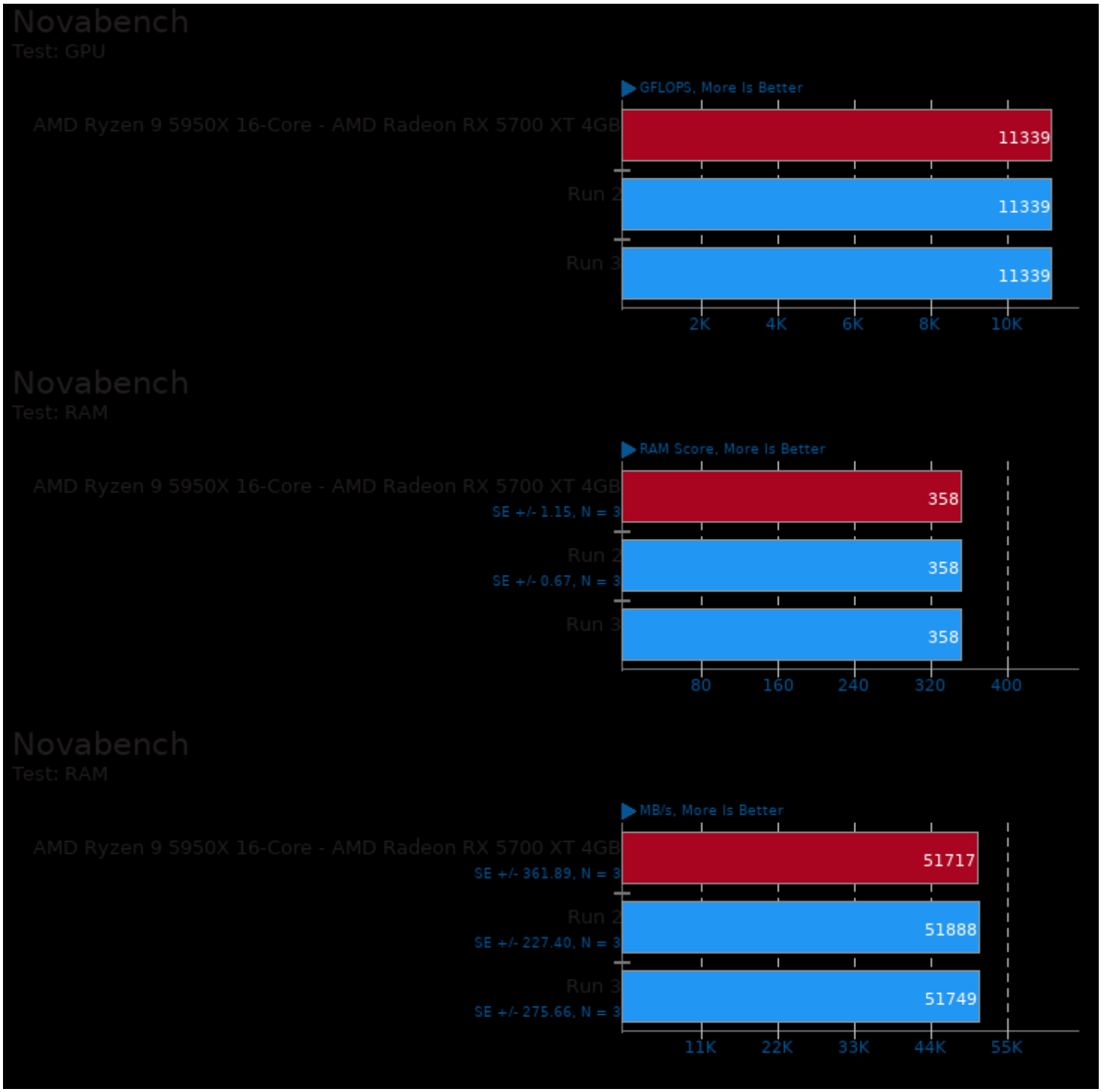
Test: Multi-Core

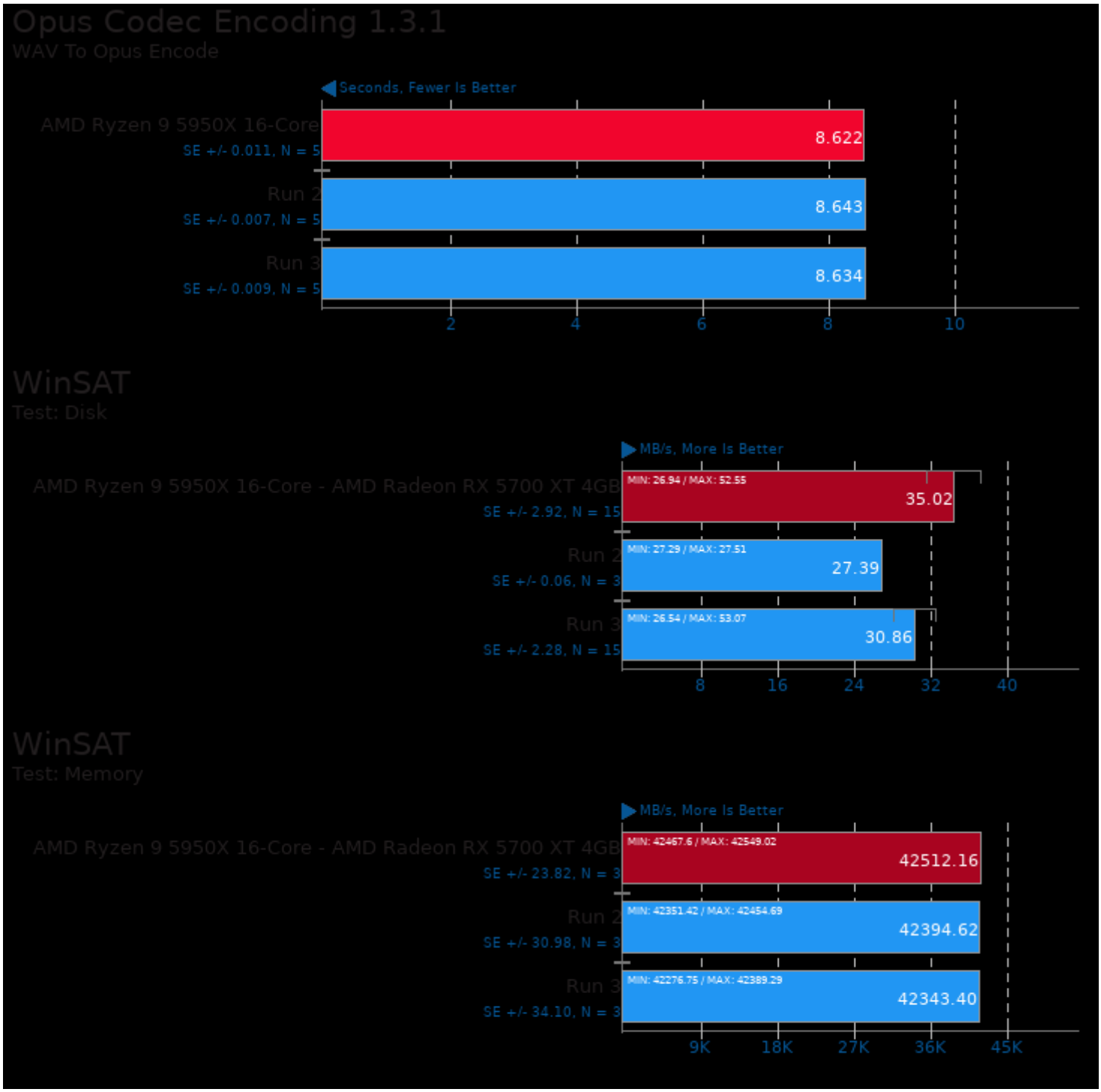


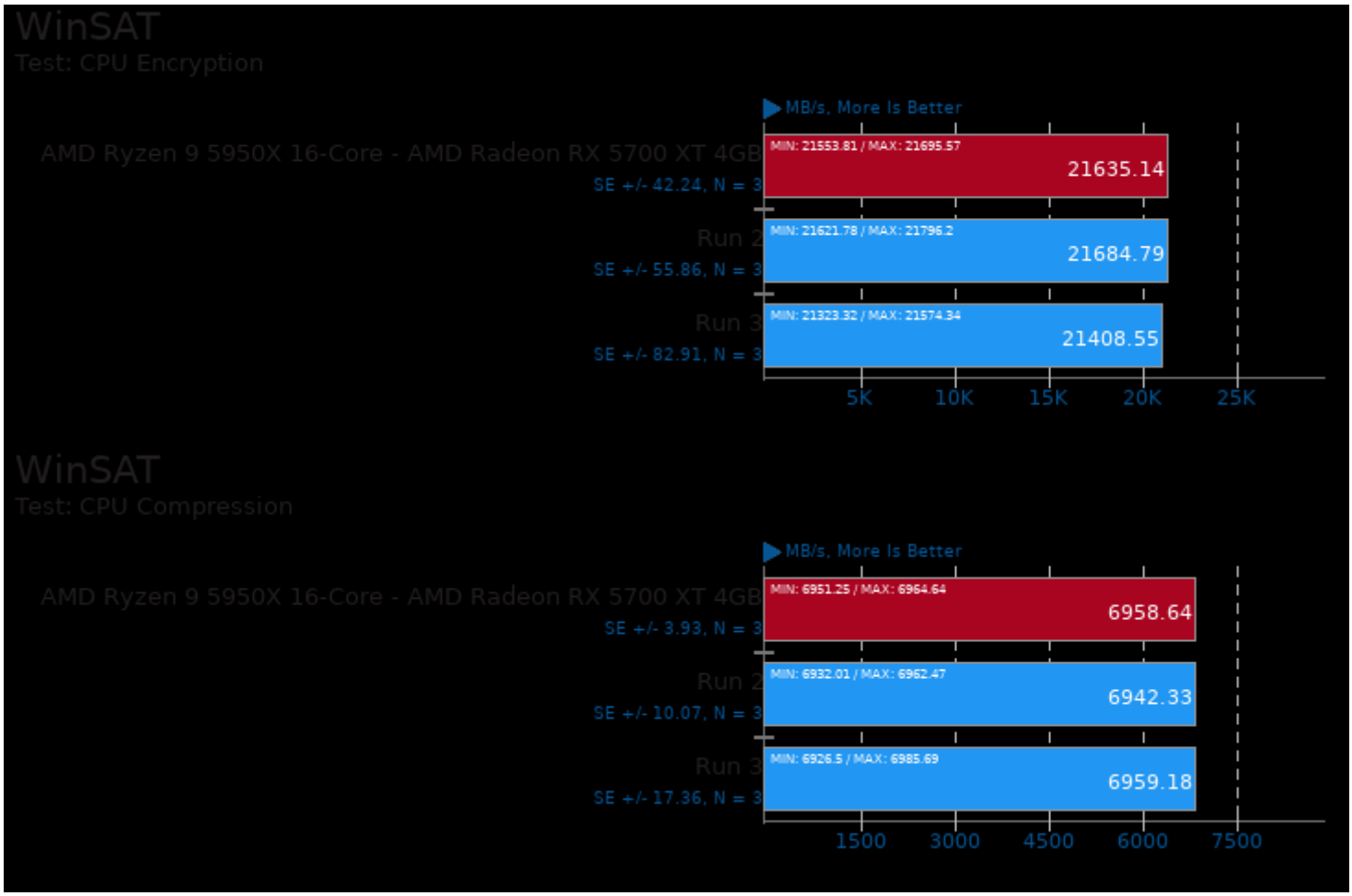
Novabench

Test: CPU




Novabench
Test: GPU
GFLOPS, More Is Better
AMD Ryzen 9 5950X 16-Core - AMD Radeon RX 5700 XT 4GB
11339
Run 2
11339
Run 3
11339
2K
4K
6K
8K
10K
Novabench
Test: RAM
RAM Score, More Is Better
AMD Ryzen 9 5950X 16-Core - AMD Radeon RX 5700 XT 4GB
SE +/- 1.15, N = 3
358
Run 2
SE +/- 0.67, N = 3
358
Run 3
358
80
160
240
320
400
Novabench
Test: RAM
MB/s, More Is Better
AMD Ryzen 9 5950X 16-Core - AMD Radeon RX 5700 XT 4GB
SE +/- 361.89, N = 3
51717
Run 2
SE +/- 227.40, N = 3
51888
Run 3
SE +/- 275.66, N = 3
51749
11K
22K
33K
44K
55K


Opus Codec Encoding 1.3.1
WAV To Opus Encode
Seconds, Fewer Is Better
AMD Ryzen 9 5950X 16-Core
SE +/- 0.011, N = 5
8.622
Run 2
SE +/- 0.007, N = 5
8.643
Run 3
SE +/- 0.009, N = 5
8.634
2
4
6
8
10
WinSAT
Test: Disk
MB/s, More Is Better
AMD Ryzen 9 5950X 16-Core - AMD Radeon RX 5700 XT 4GB
SE +/- 2.92, N = 15
MIN: 26.94 / MAX: 52.55
35.02
Run 2
SE +/- 0.06, N = 3
MIN: 27.29 / MAX: 27.51
27.39
Run 3
SE +/- 2.28, N = 15
MIN: 26.54 / MAX: 53.07
30.86
8
16
24
32
40
WinSAT
Test: Memory
MB/s, More Is Better
AMD Ryzen 9 5950X 16-Core - AMD Radeon RX 5700 XT 4GB
SE +/- 23.82, N = 3
MIN: 42467.6 / MAX: 42549.02
42512.16
Run 2
SE +/- 30.98, N = 3
MIN: 42351.42 / MAX: 42454.69
42394.62
Run 3
SE +/- 34.10, N = 3
MIN: 42276.75 / MAX: 42389.29
42343.40
9K
18K
27K
36K
45K



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