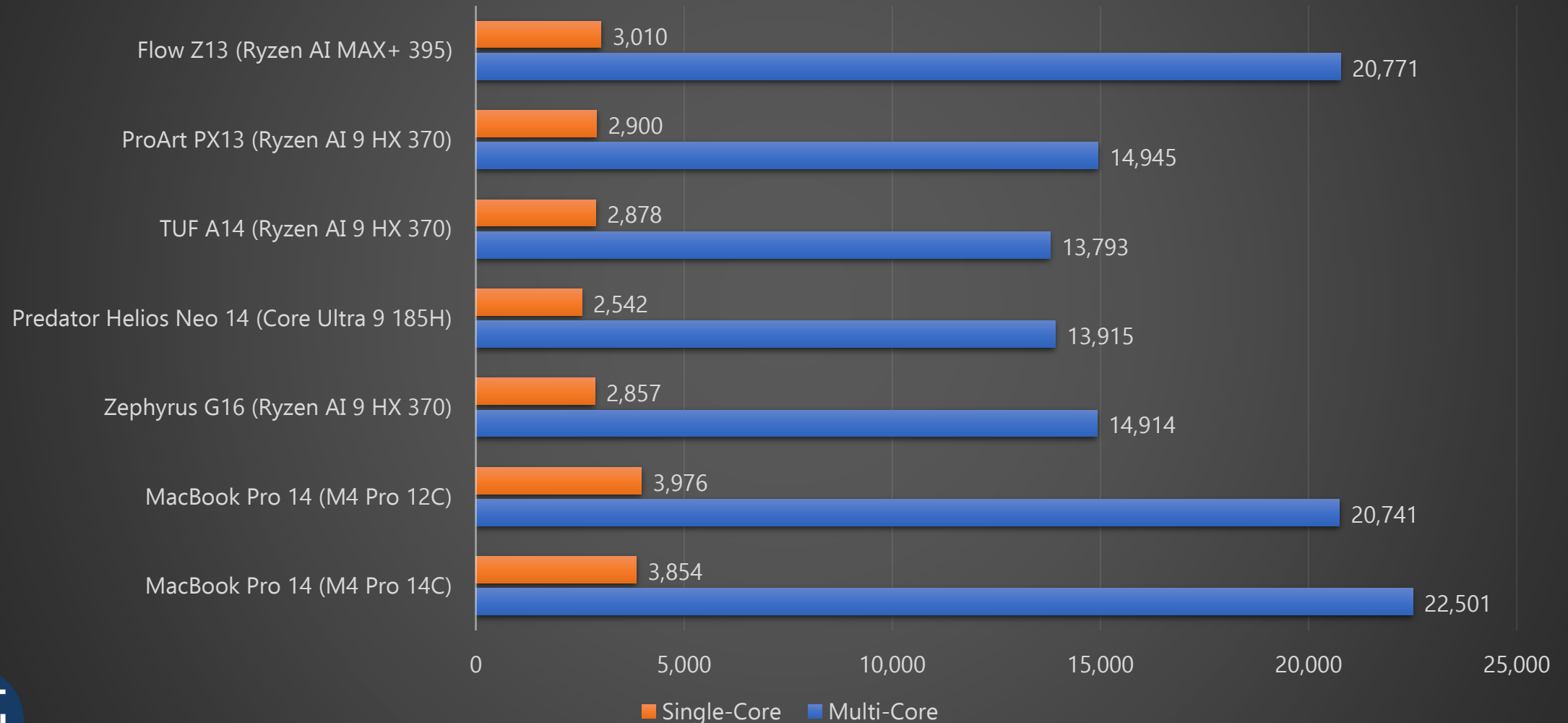


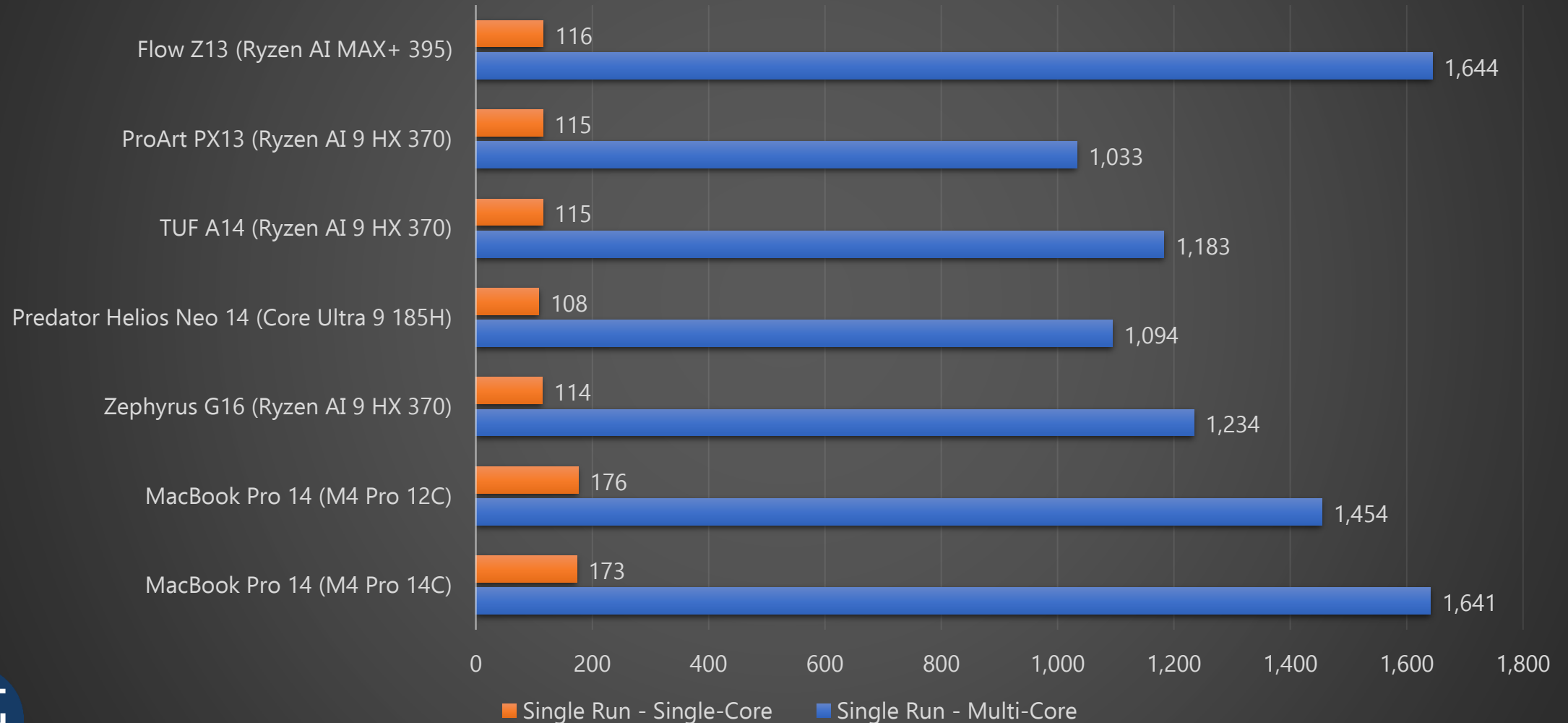
Common Performance Tasks - Geekbench 6

Highest Preset Performance Modes, Higher is Better



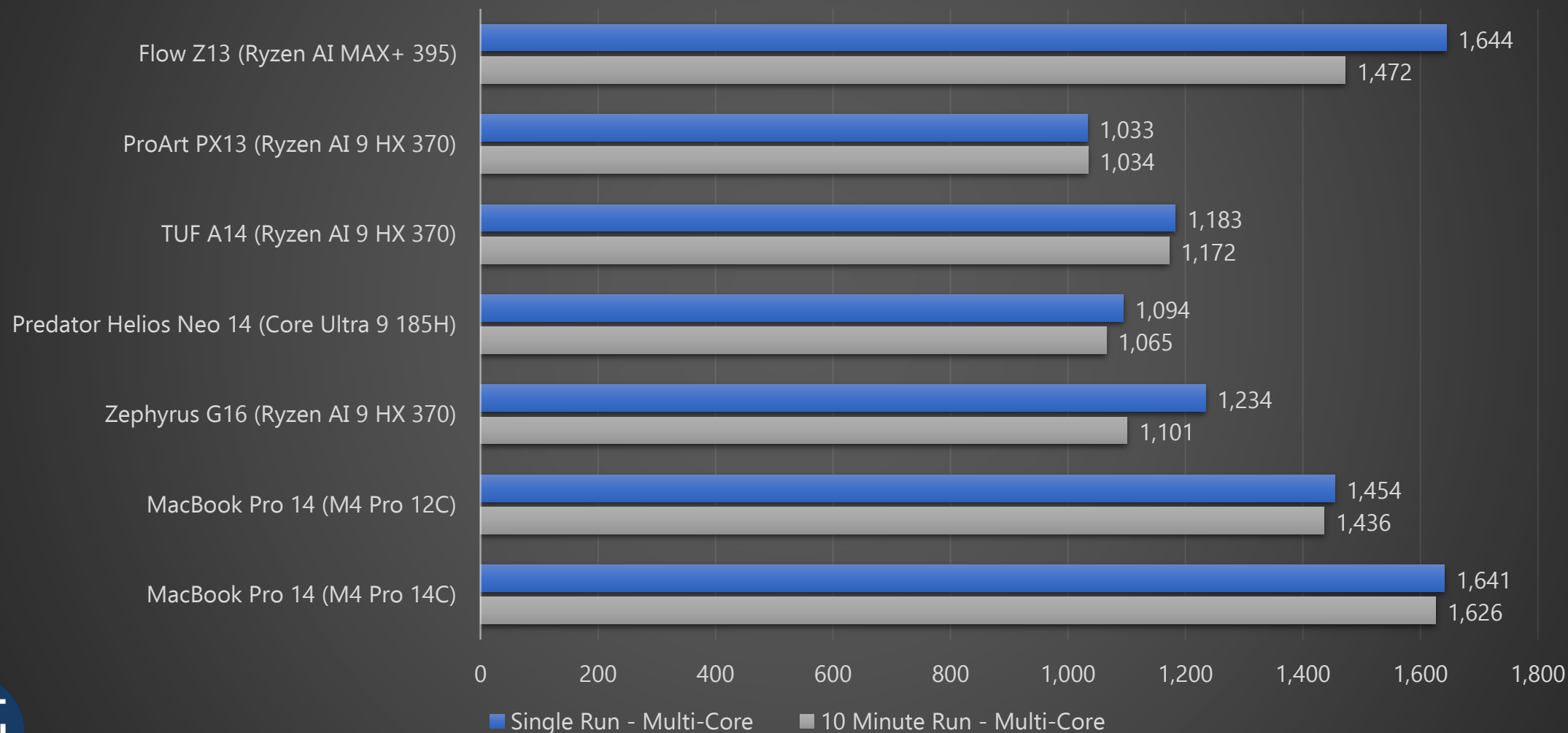
Max CPU Performance - Cinebench 2024

Highest Preset Performance Modes, Higher is Better



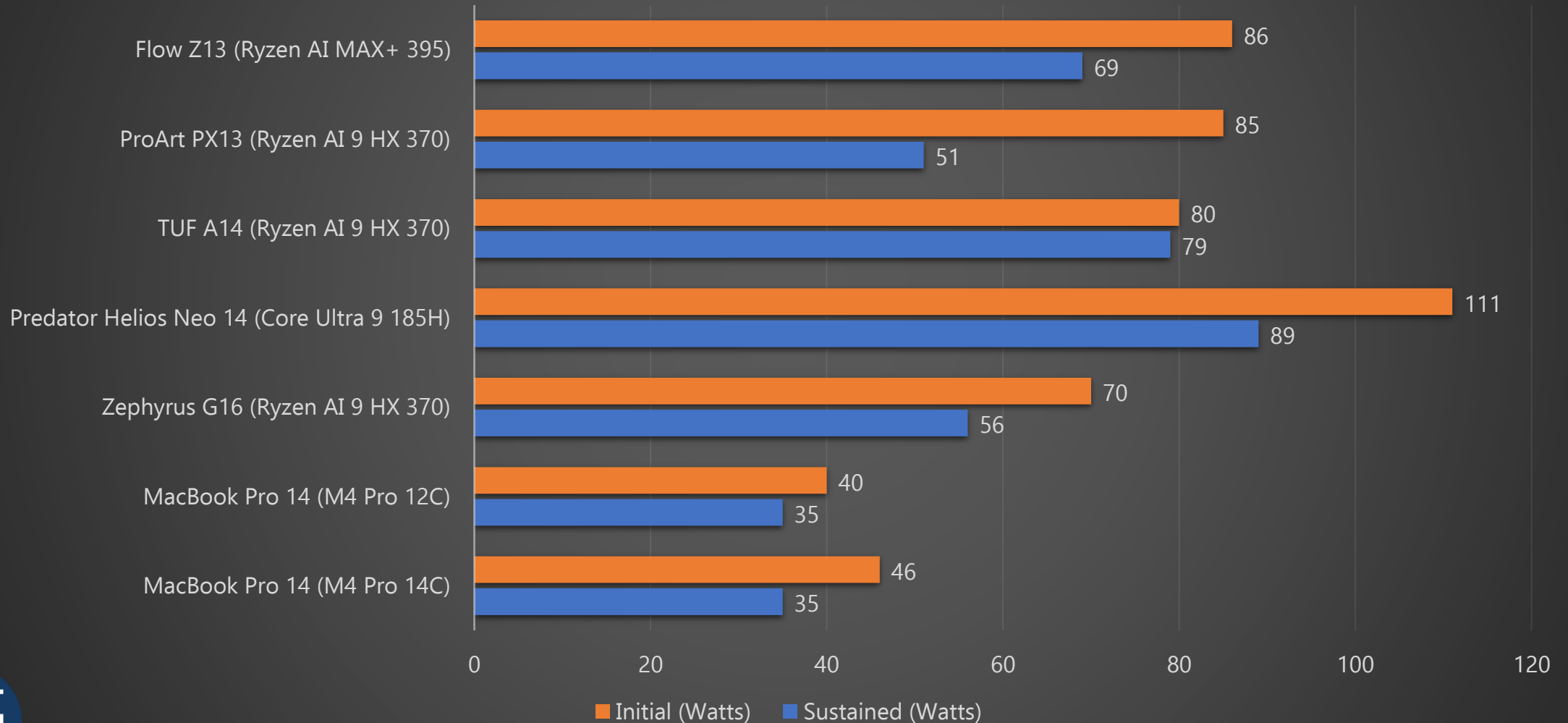
Sustained Performance - Cinebench 2024

Highest Preset Performance Modes, Higher is Better



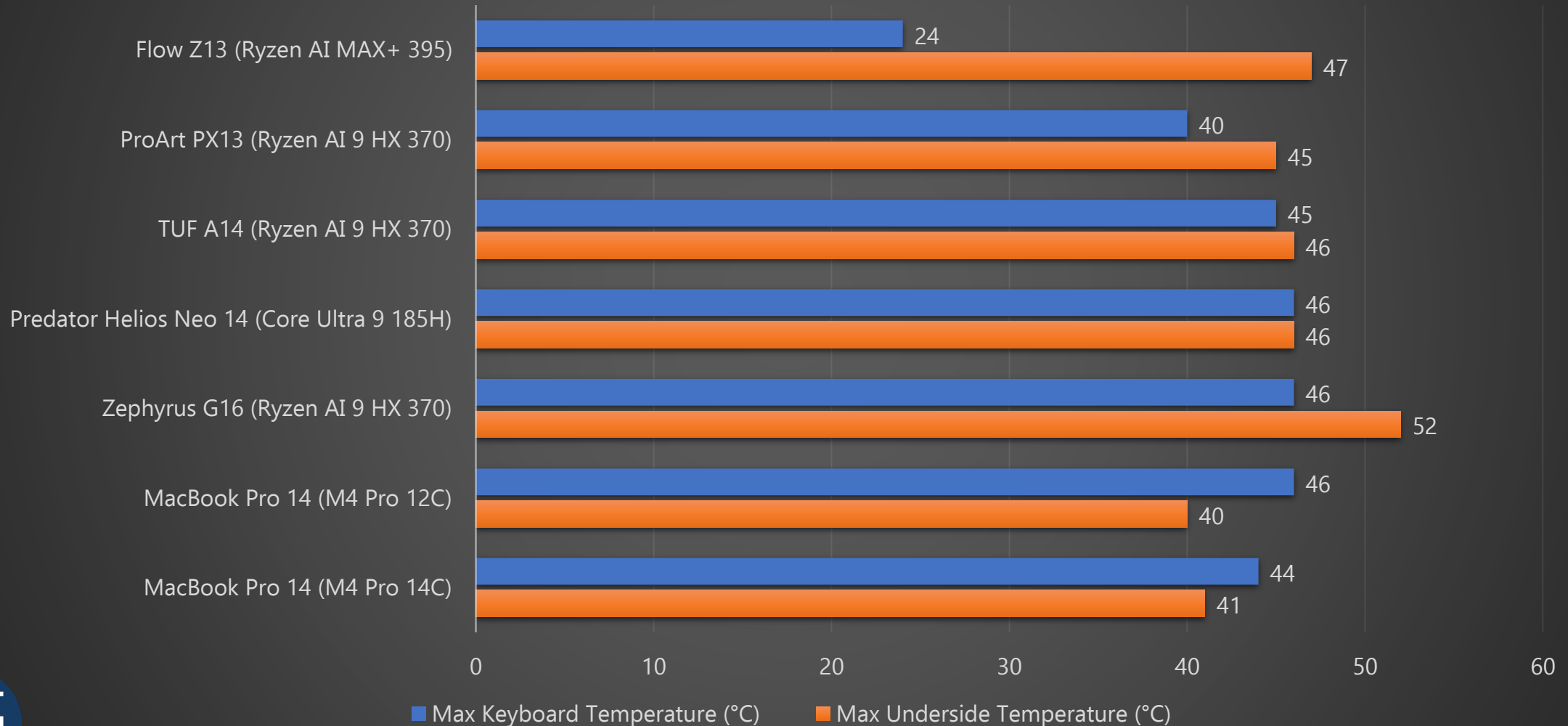
Power Draw - Cinebench 2024

Highest Preset Performance Modes, Lower is Better



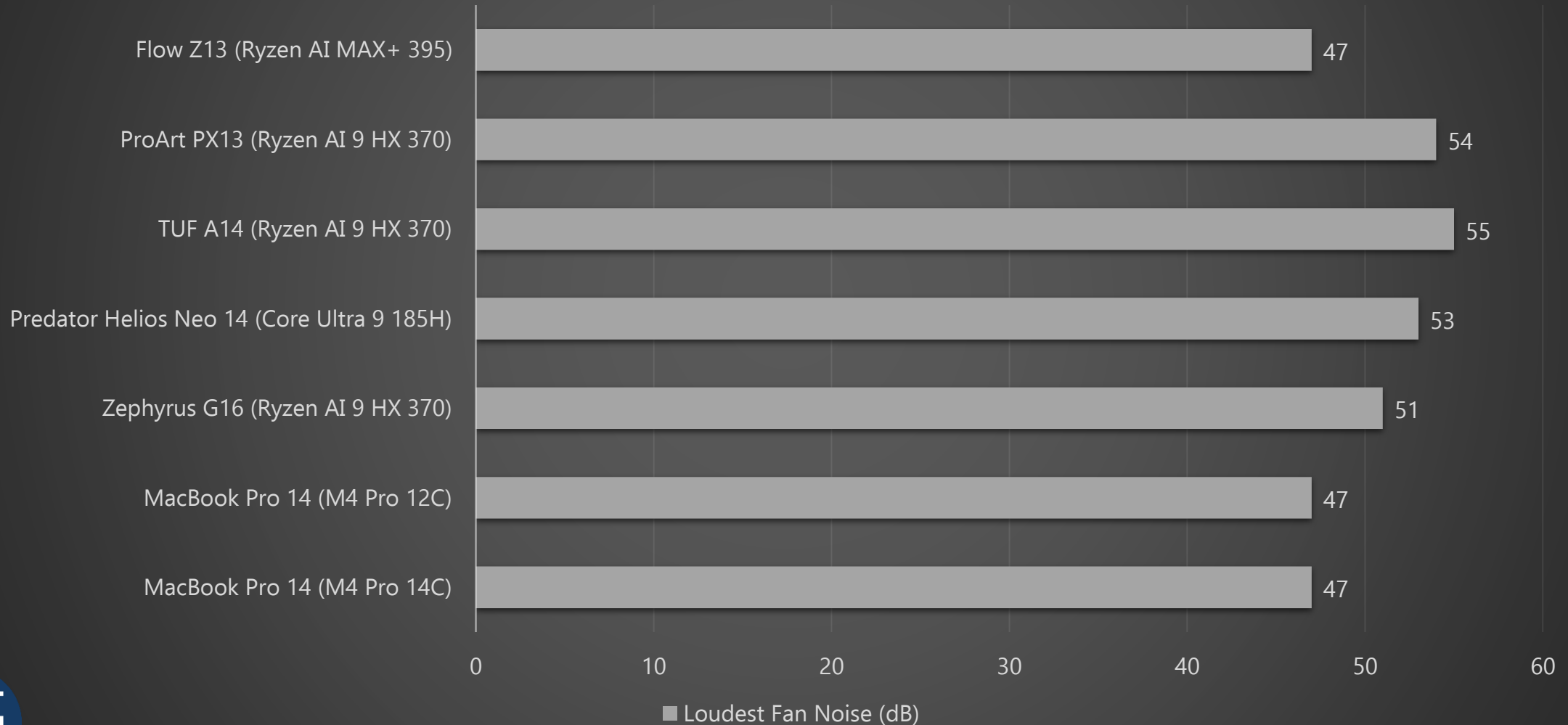
Heat You Feel - Cinebench 2024

Highest Preset Performance Modes, Lower is Better



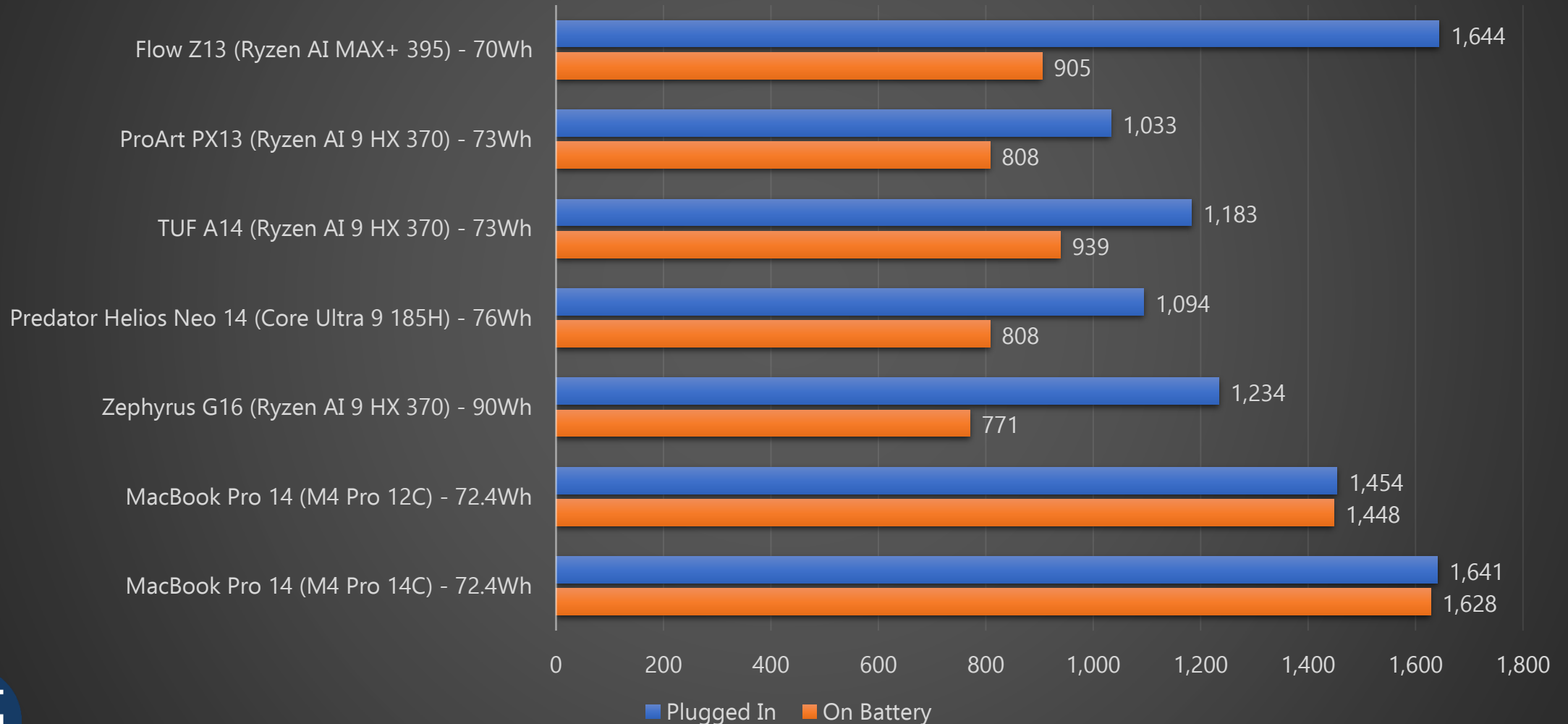
Fan Noise - Cinebench 2024

Highest Preset Performance Modes, Lower is Better



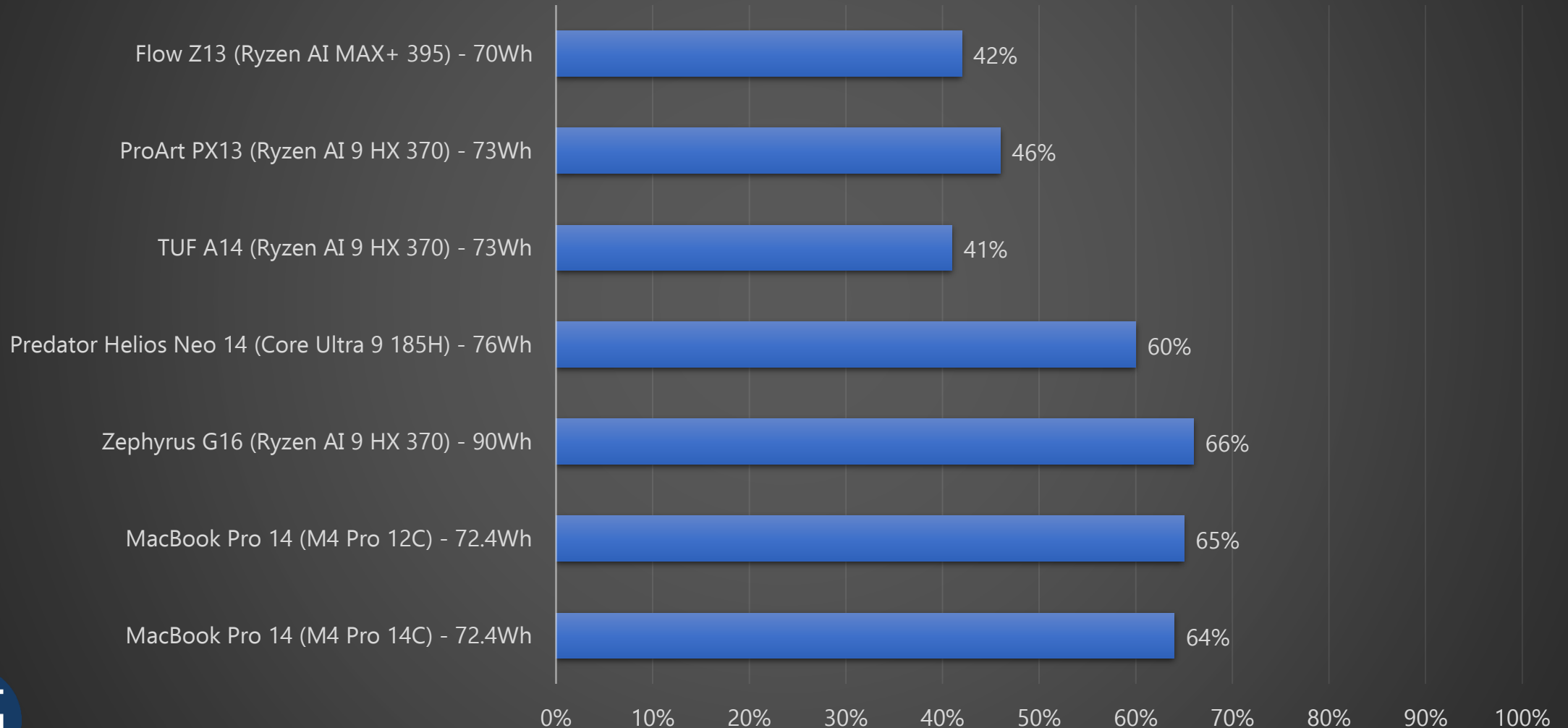
Performance on Battery

Cinebench 2024 Scores - Higher is Better



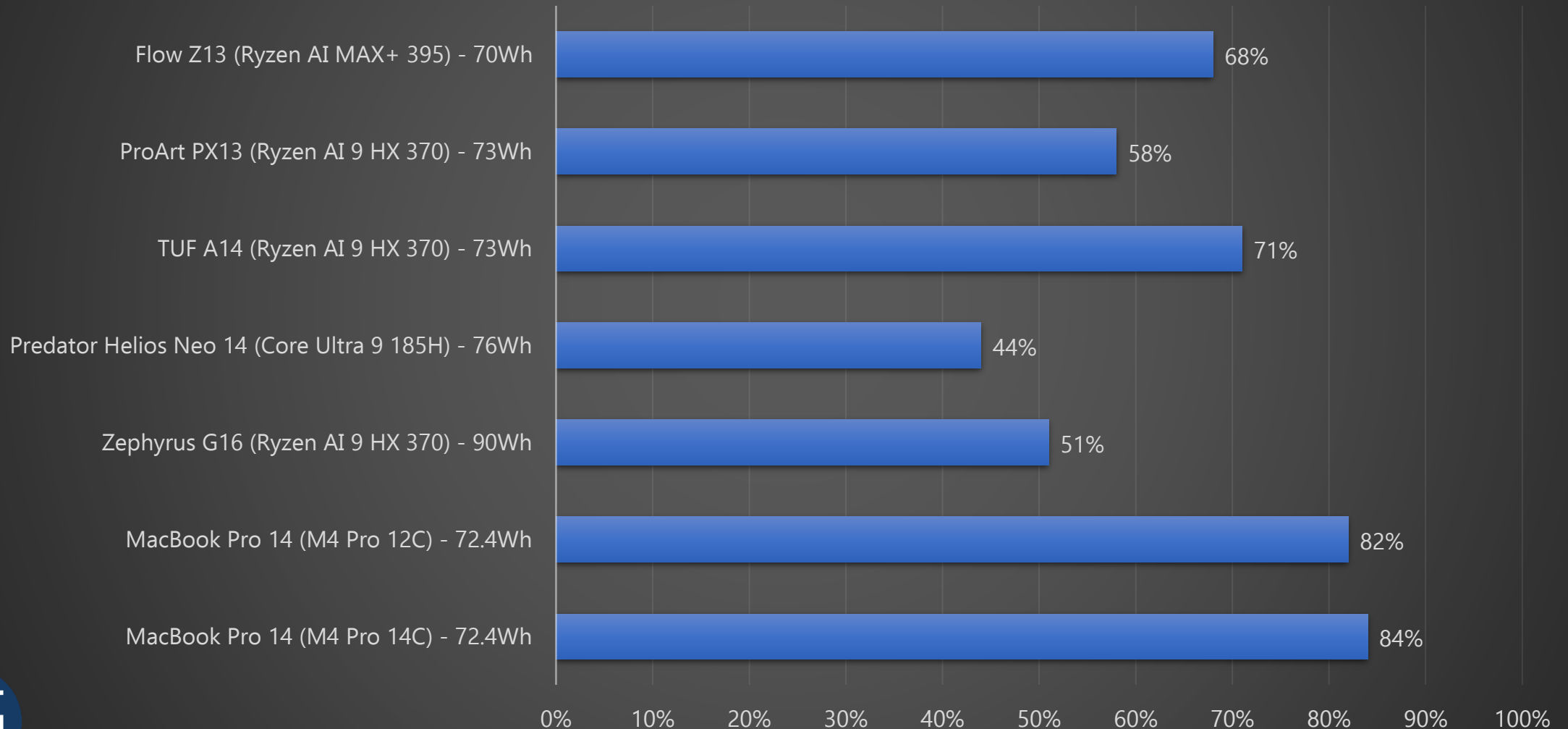
Battery Life for Performance Use

200 Nits, Higher is Better - Cinebench 30-Minute Battery Remaining



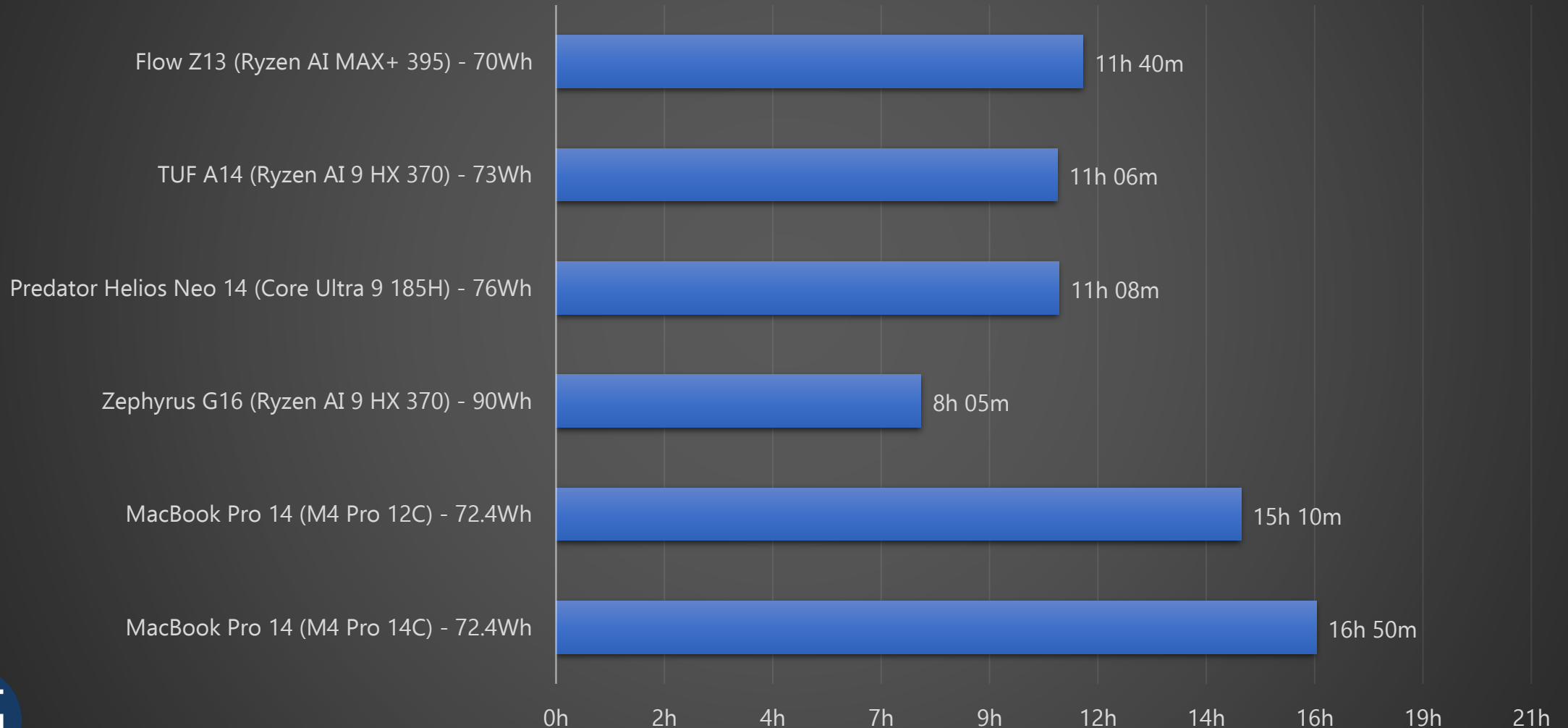
Netflix 4 Hour Playback

200 Nits, Higher is Better - Battery Remaining



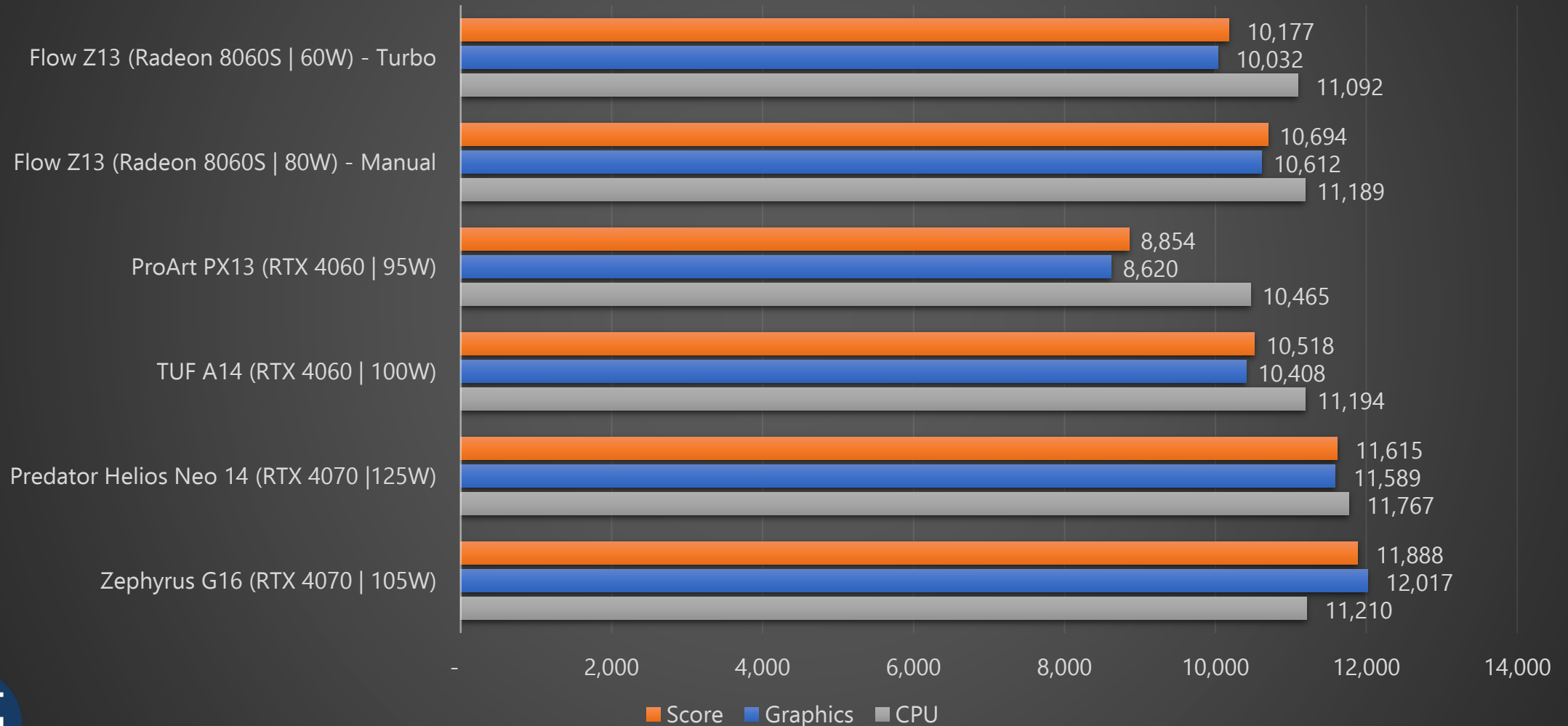
Video Playback Rundown

Higher is Better - Battery Duration



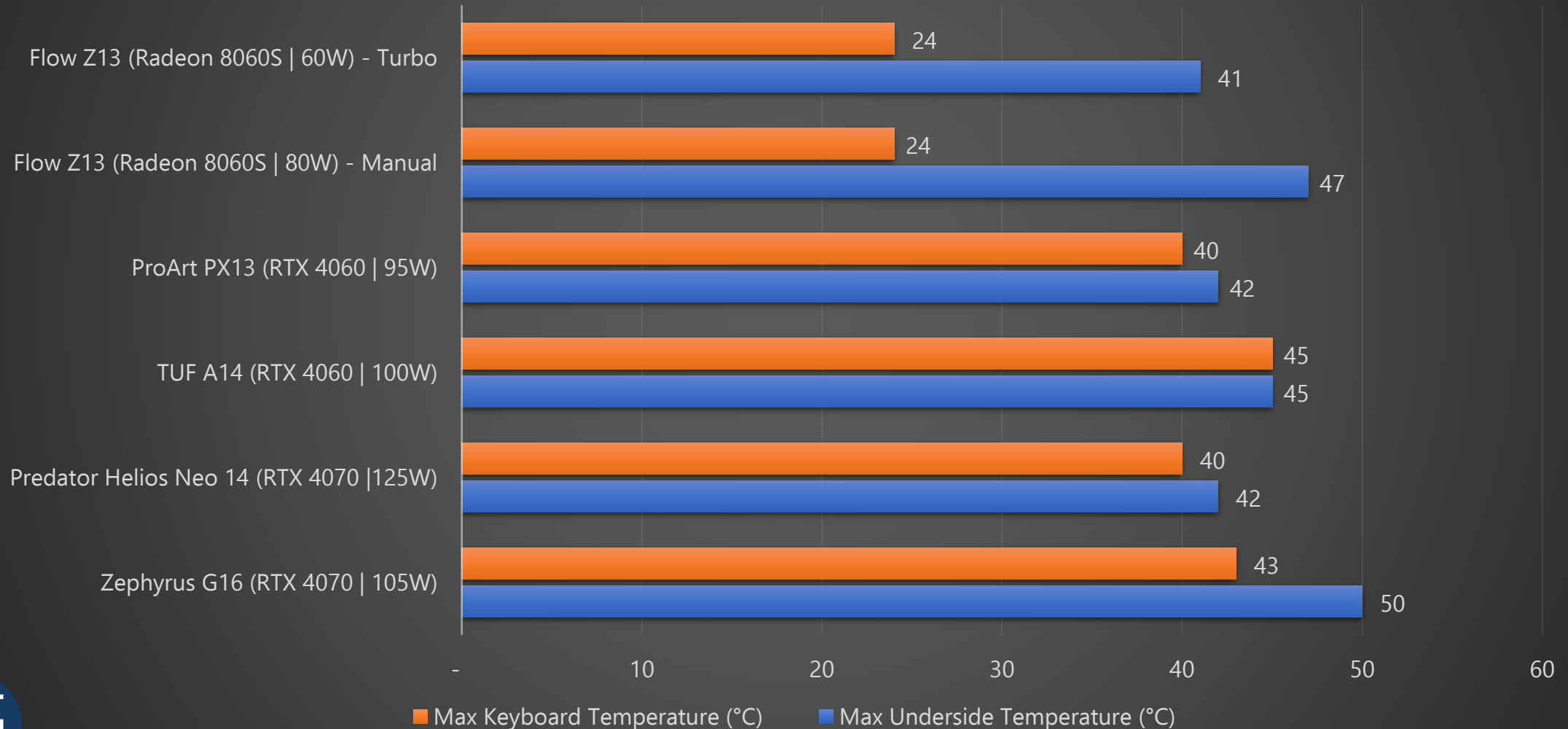
Timespy

Highest Performance Modes, Higher is Better



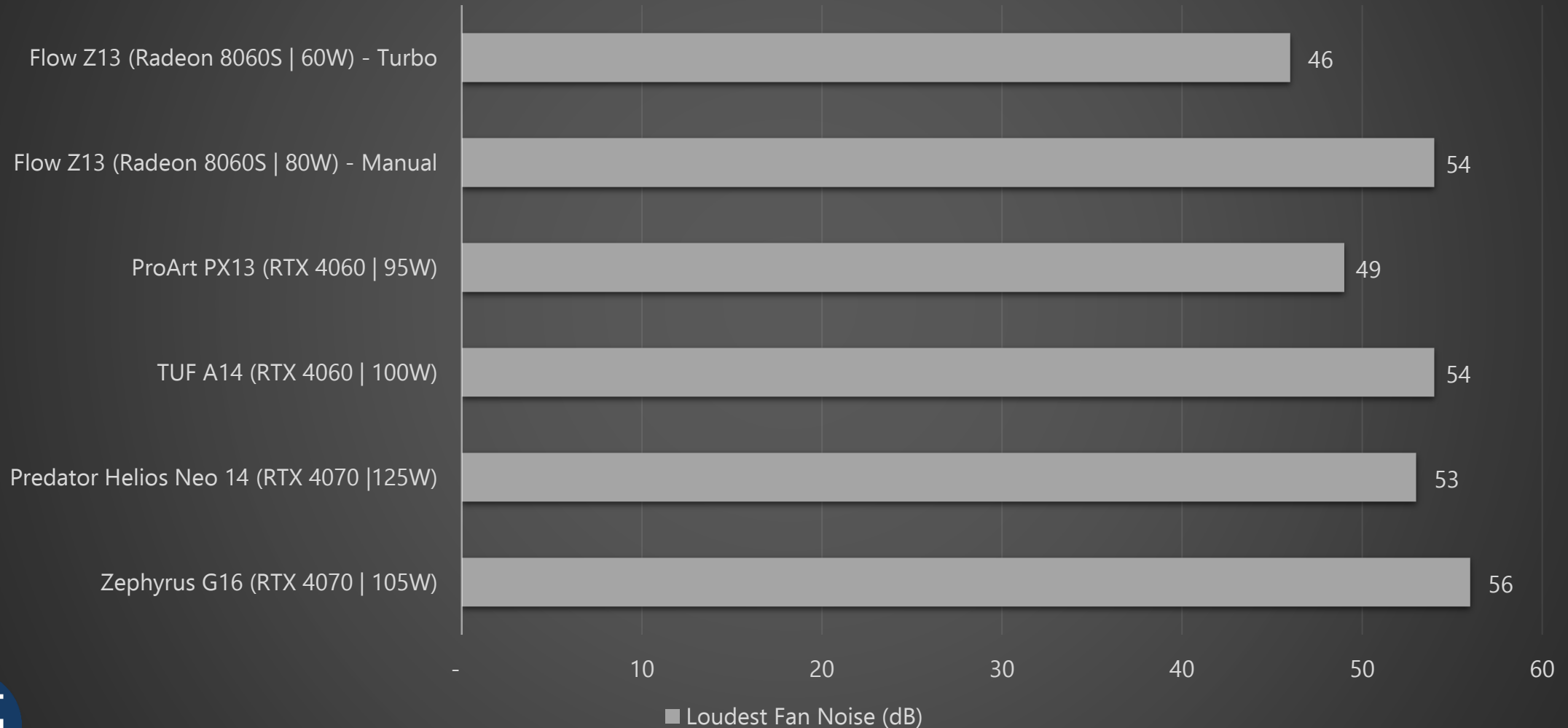
Timespy - Temperatures

Highest Performance Modes, Lower is Better



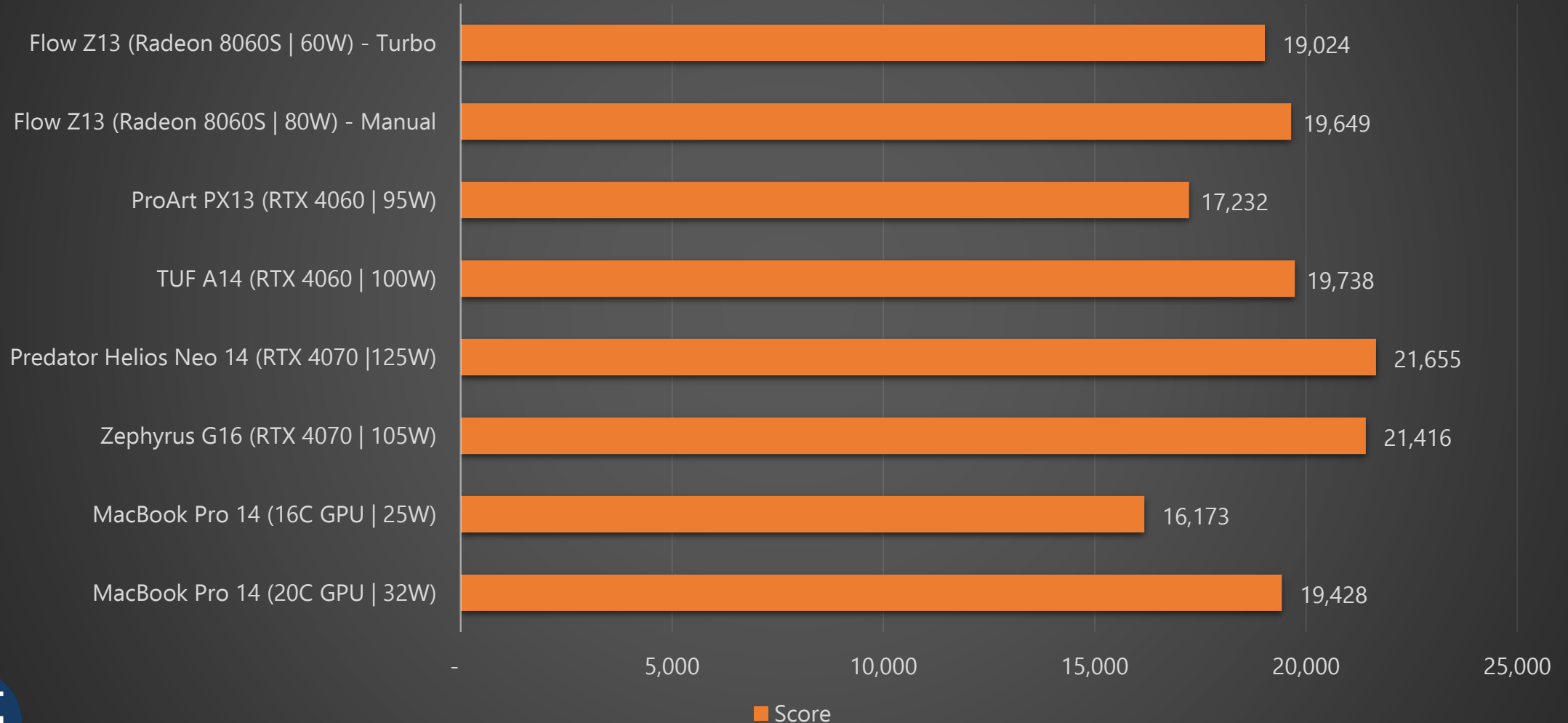
Timespy - Fan Noise

Highest Performance Modes, Lower is Better



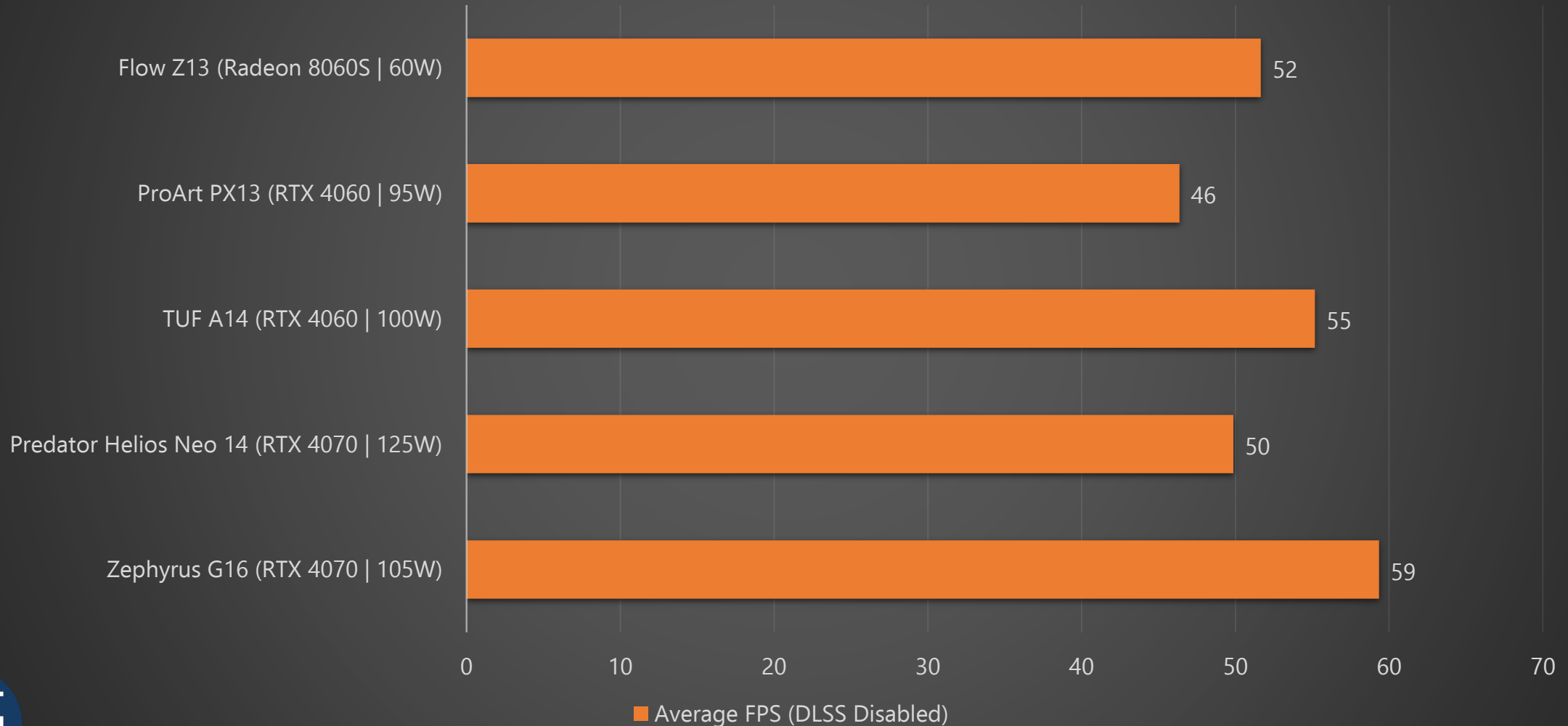
3DMark - Wildlife Extreme

Highest Performance Modes, Higher is Better



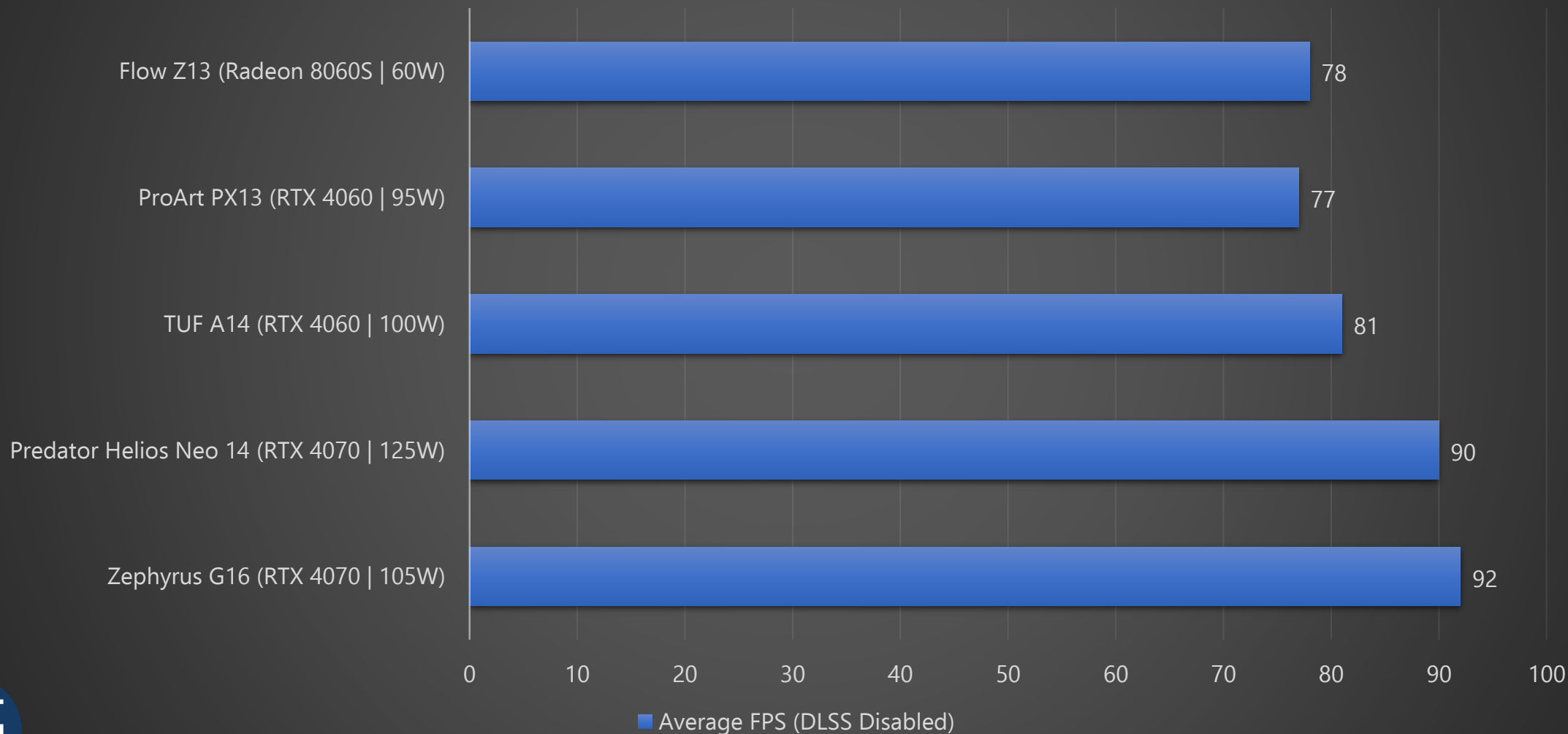
Cyberpunk Average FPS

2560x1600, Ultra Settings, Ray Tracing Off, DLSS Disabled



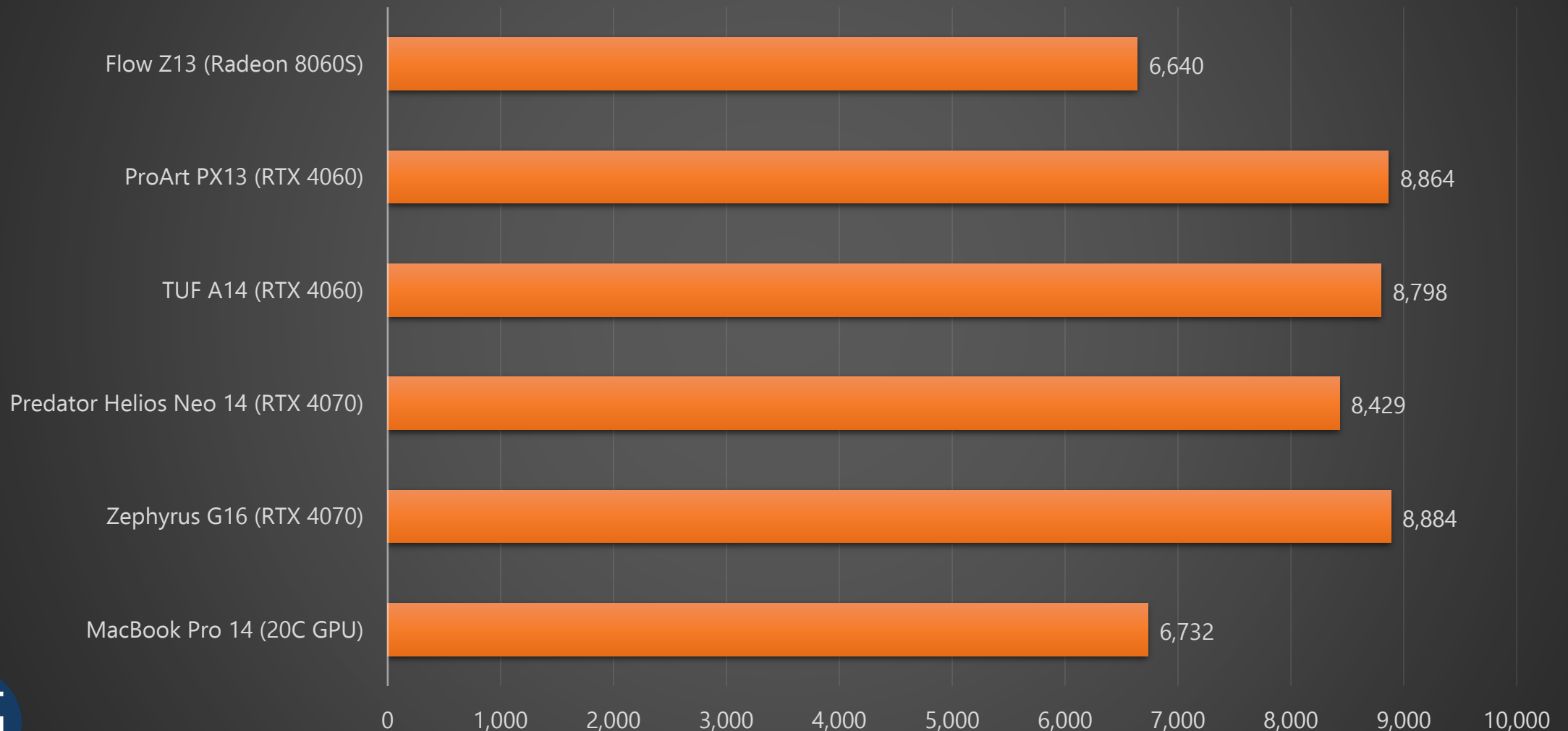
Forza Horizon Average FPS

2560x1600, Extreme Settings, Ray Tracing Off, DLSS Disabled



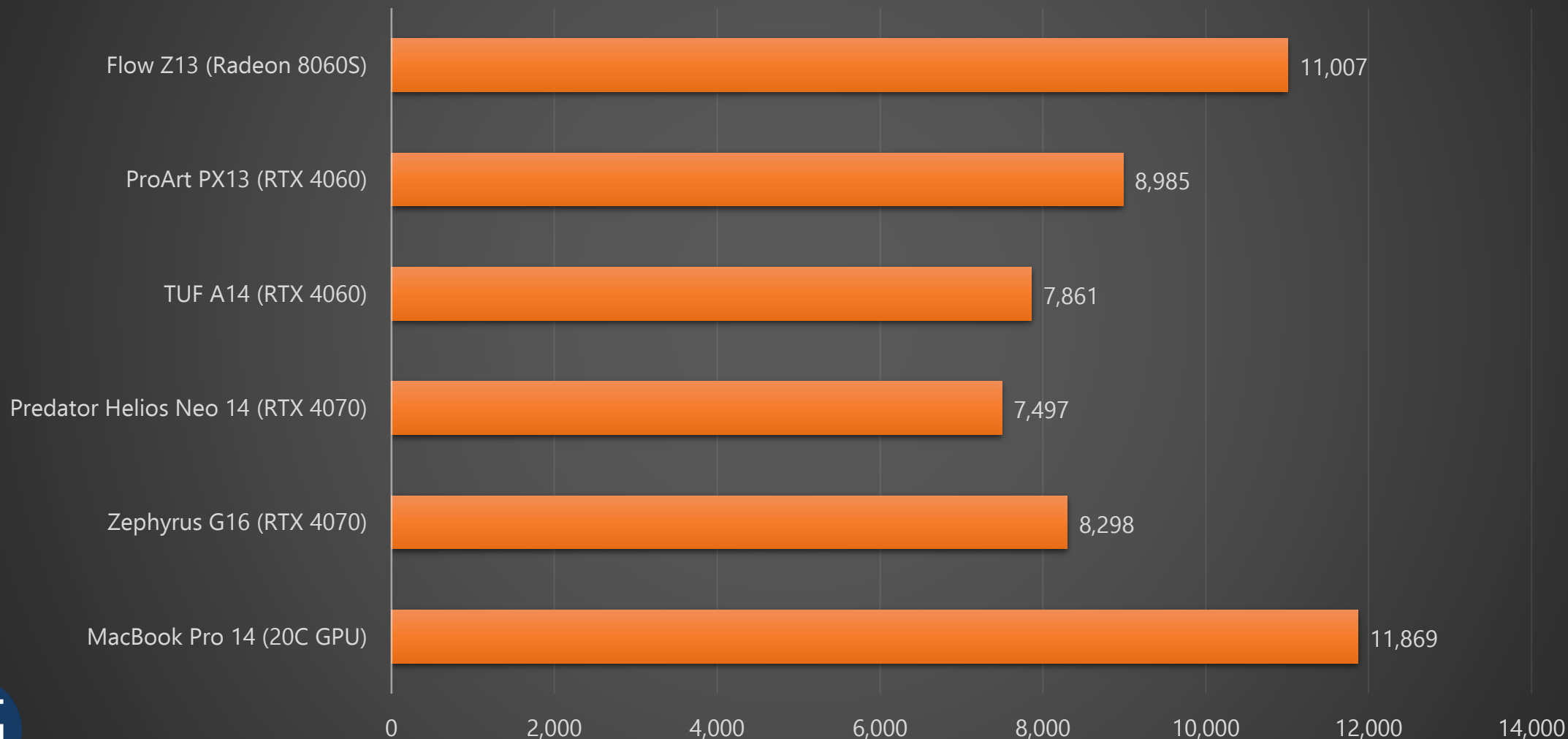
Puget Benchmark Premiere Pro

Highest Performance Modes, Higher is Better



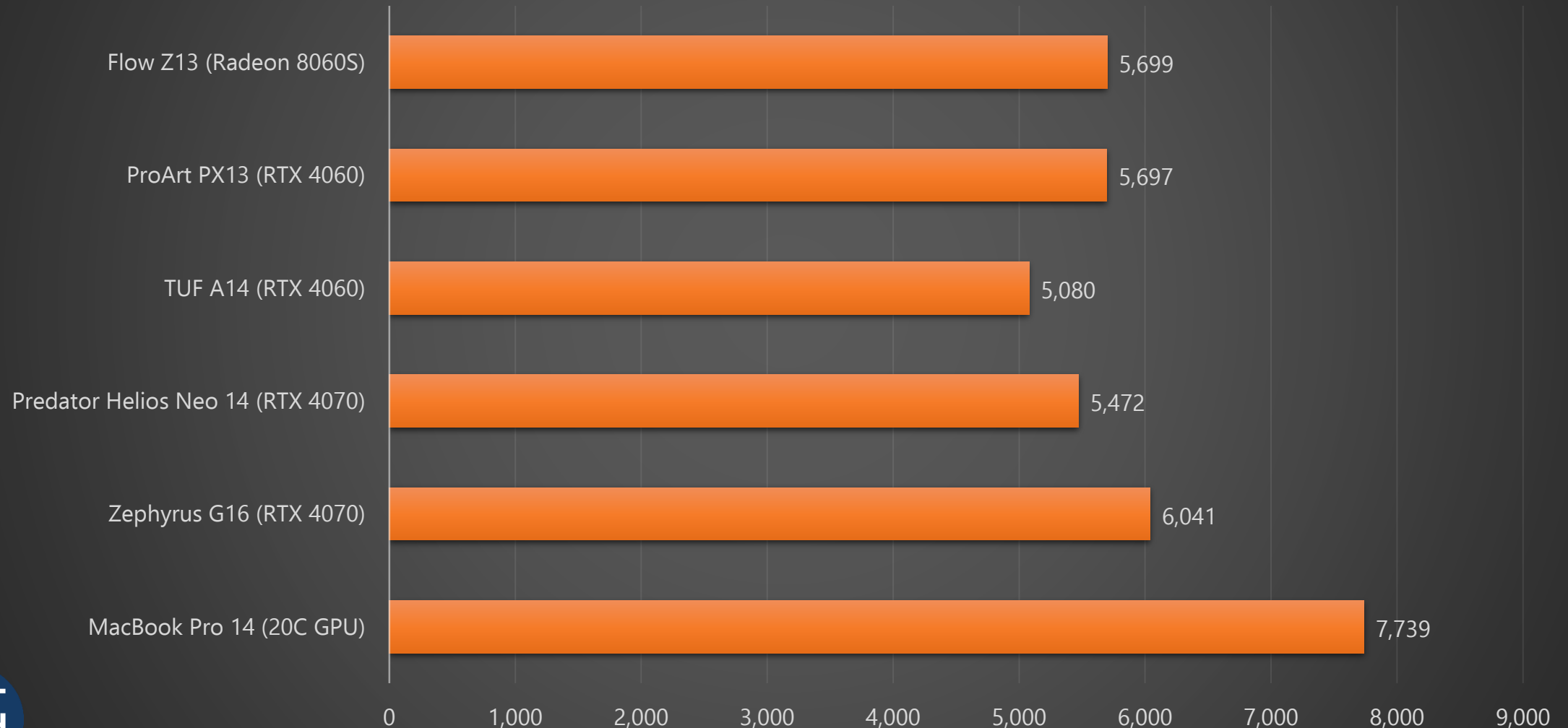
Puget Benchmark - Photoshop

Highest Performance Modes, Higher is Better

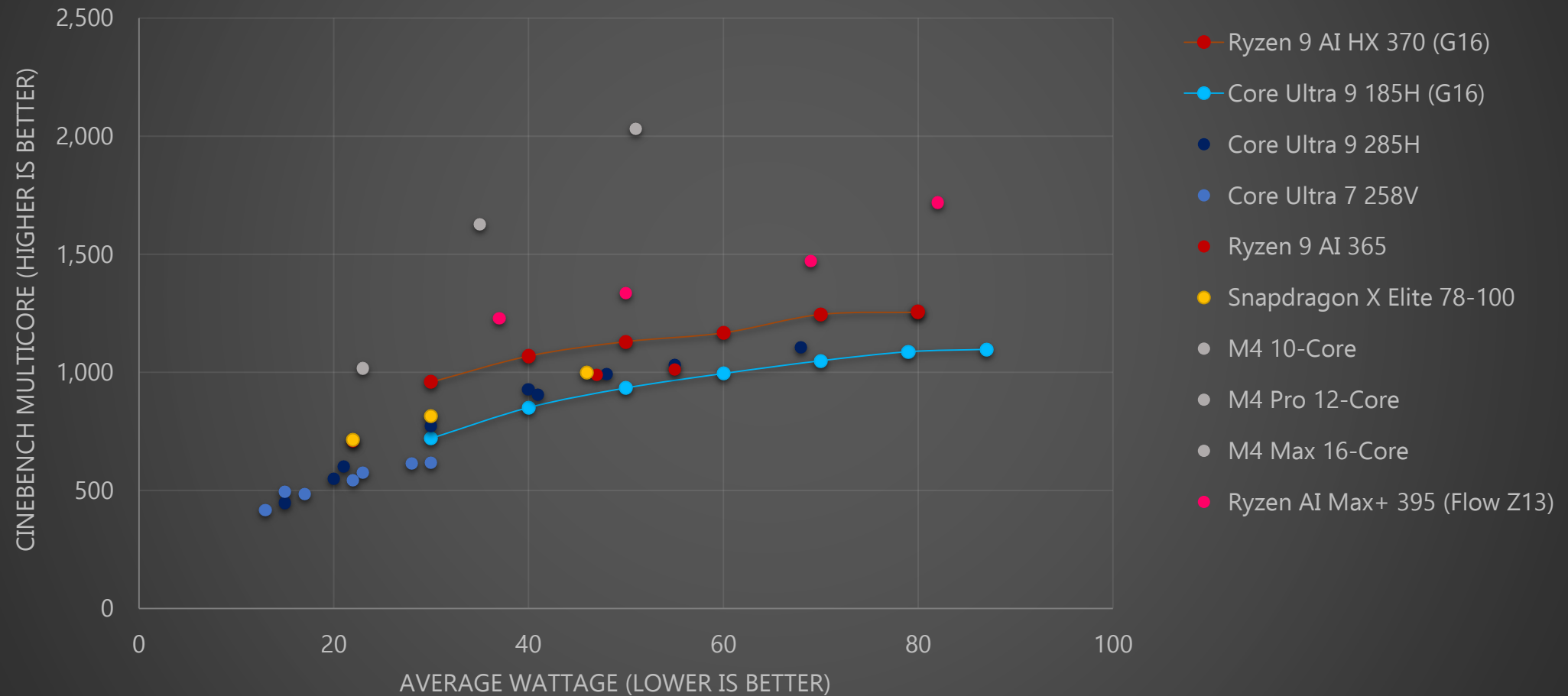


Puget Benchmark Davinci Studio

Highest Performance Modes, Higher is Better

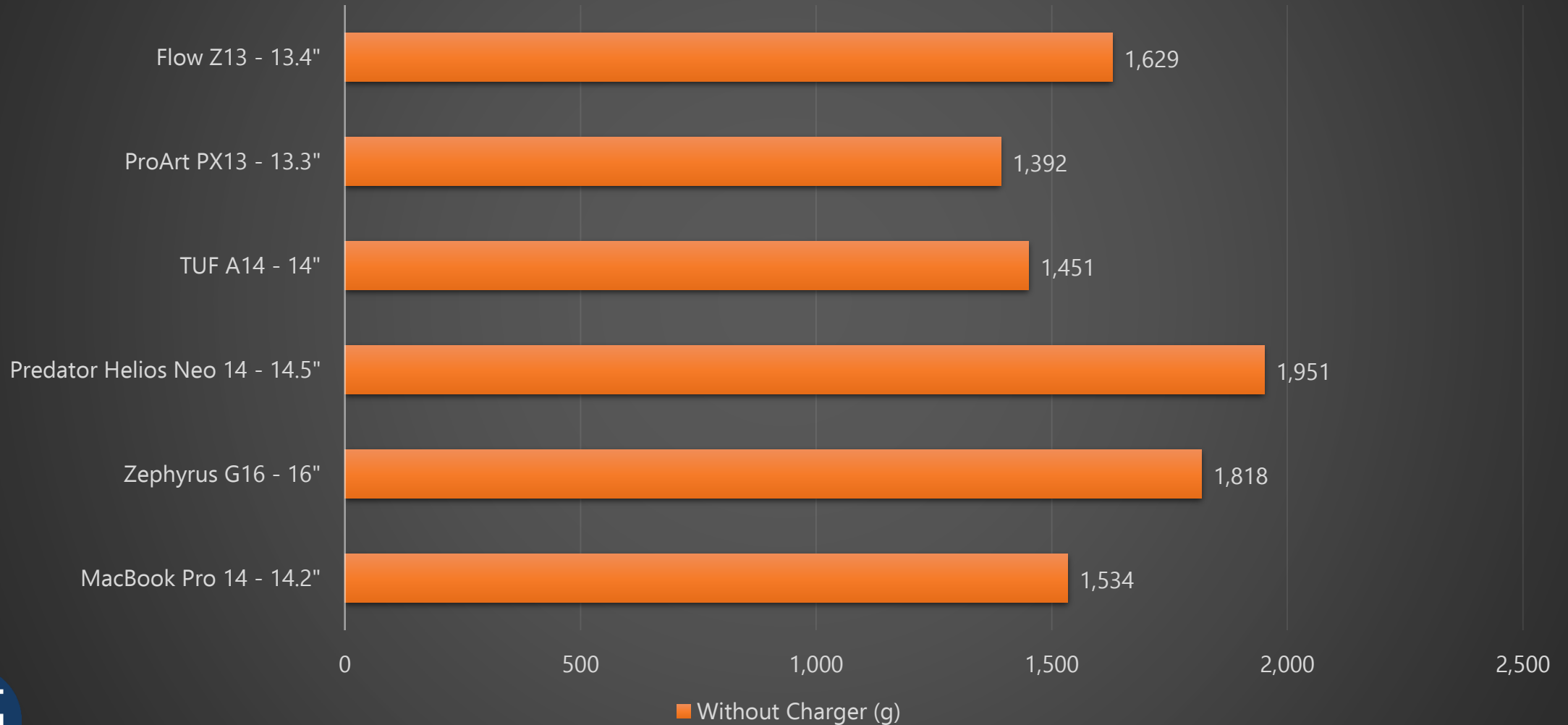


Cinebench Performance by Power Draw



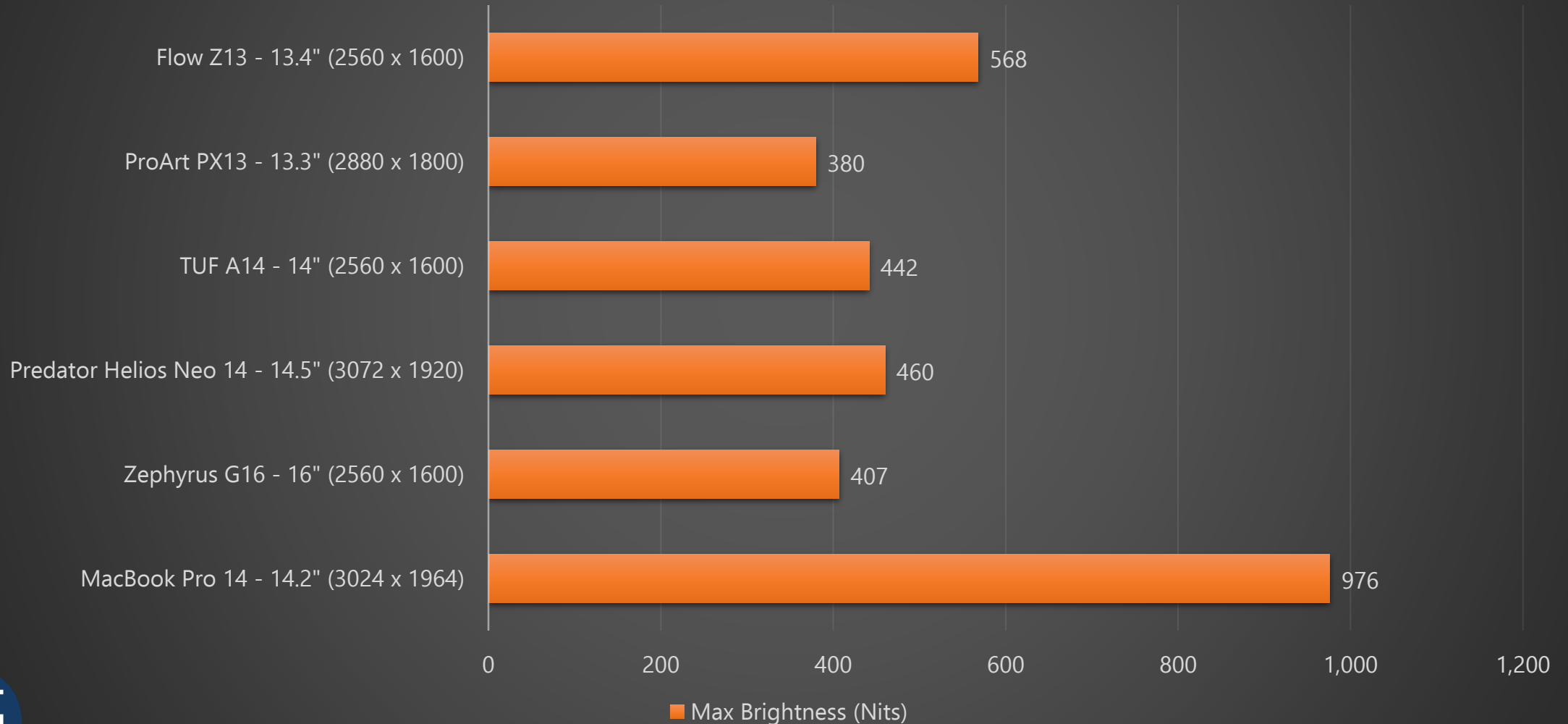
Weight

Lower is Better



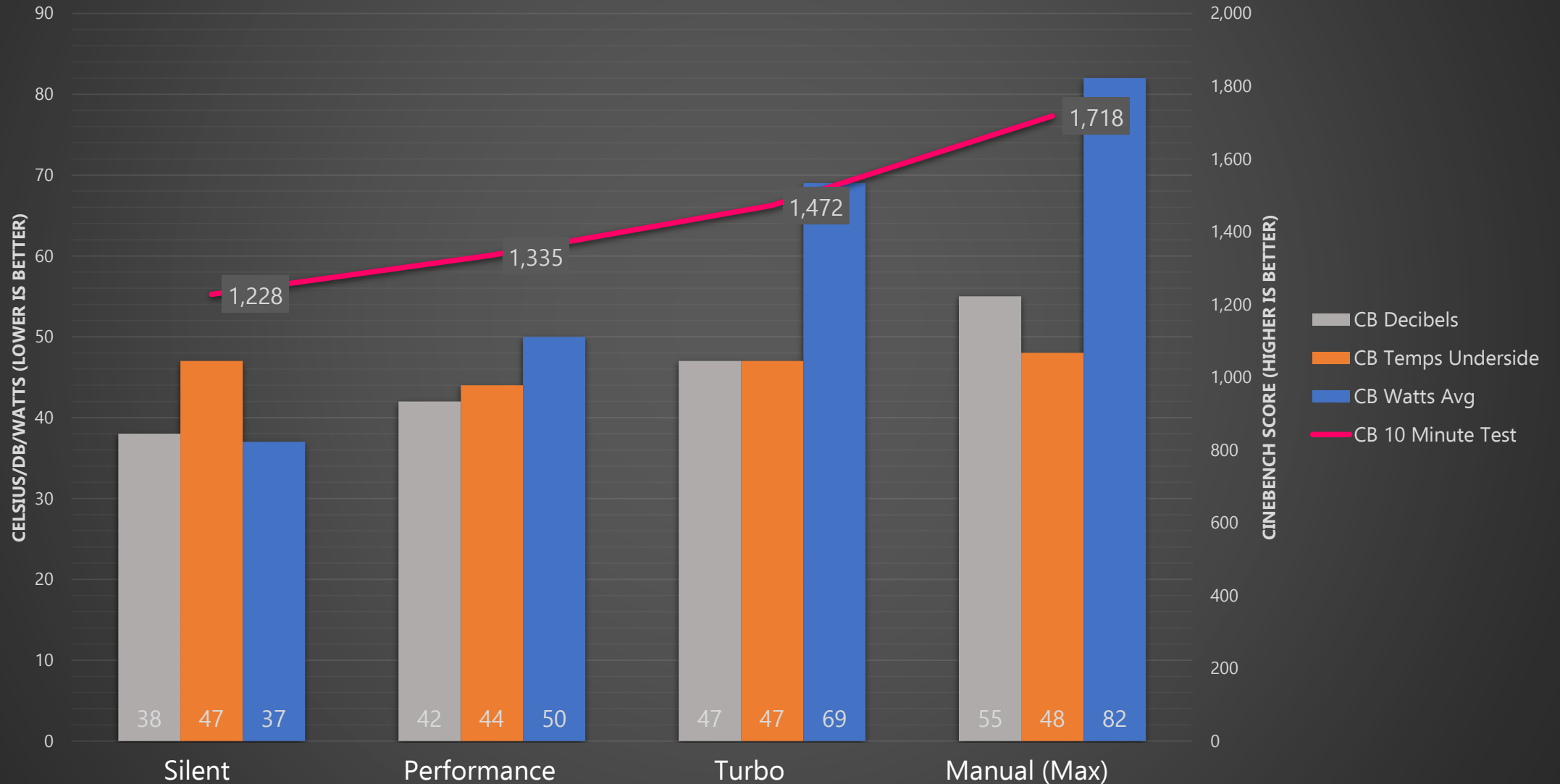
Display - Max Brightness

Higher is Better



Different Performance Modes

Cinebench 10-Minute Test





Processor Comparison

CPU	Cores	Threads	P Cores	E Cores	Max GHz	Default TDP	TDP	Cache	Graphics	Max Temp (C)	Process Technology	Memory (Up To)	NPU TOPS
Core™ Ultra 9 285H	16	16	6	8+2	5.4	28 W	28-115 W	24 MB	Intel Arc™ 140T	110	TSMC 3nm	DDR5 6400 MT/s, LPDDR5/x 8400 MT/s	13
Core™ Ultra 9 185H	16	16	6	8+2	5.1	45 W	35-115 W	24 MB	Intel Arc™ Graphics	110	Intel 4	DDR5 5600 MT/s, LPDDR5/x 7467 MT/s	11
Core™ Ultra 7 155H	16	16	6	8+2	4.8	28 W	20-115 W	24 MB	Intel Arc™ Graphics	100	Intel 4	DDR5 5600 MT/s, LPDDR5/x 7467 MT/s	11
Core™ Ultra 7 258V	8	8	4	4	4.8	17 W	8-37 W	12 MB	Intel Arc™ 140V	100	TSMC 3nm	LPDDR5X 8533 MT/s	48
Core™ 5 220U	10	12	2	8	5	15 W	12-55 W	12 MB	Intel Graphics	100	Intel 7	DDR5 5200 MT/s, LPDDR5/x 6400 MT/s	N/A
AMD Ryzen™ AI Max+ 395	16	32	16	N/A	5.1	55 W	45-120 W	80 MB	Radeon™ 8060S	100	TSMC 4nm	LPDDR5x 8000 MT/s	50
AMD Ryzen™ AI 9 HX 375	12	24	4+8*	N/A	5.1	28 W	15-54 W	36 MB	Radeon™ 890M	100	TSMC 4nm	DDR5 5600 MT/s, LPDDR5x 8000 MT/s	50
AMD Ryzen™ AI 9 HX 370	12	24	4+8*	N/A	5.1	28 W	15-54 W	36 MB	Radeon™ 890M	100	TSMC 4nm	DDR5 5600 MT/s, LPDDR5x 8000 MT/s	50
AMD Ryzen™ AI 9 365	10	20	4+6*	N/A	5	28 W	15-54 W	34 MB	Radeon™ 880M	100	TSMC 4nm	DDR5 5600 MT/s, LPDDR5x 8000 MT/s	50
AMD Ryzen™ AI 7 PRO 360	8	16	3+5*	N/A	5	28 W	15-54 W	24 MB	Radeon™ 880M	100	TSMC 4nm	DDR5 5600 MT/s, LPDDR5x 8000 MT/s	50
Snapdragon X Elite (84-100)	12	12	12	N/A	4.2	N/A	80 W	42 MB	Adreno X1-85	100	TSMC 4nm	LPDDR5x 8448 MT/s	45
Snapdragon X Elite (78-100)	12	12	12	N/A	3.4	N/A	45 W	42 MB	Adreno X1-85	100	TSMC 4nm	LPDDR5x 8448 MT/s	45
Apple M4 Pro	14	14	10	4	4.51	N/A	40 W	TBC	20-Core	TBC	TSMC 3nm	LPDDR5x 7500 MT/s, 273 GB/s	38
Apple M4 Pro	12	12	8	4	4.51	N/A	36 W	TBC	16-Core	TBC	TSMC 3nm	LPDDR5x 7500 MT/s, 273 GB/s	38
Apple M4	10	10	4	6	4.46	N/A	40 W	TBC	10-Core	TBC	TSMC 3nm	LPDDR5x 7500 MT/s, 120 GB/s	38

*Zen5+Zen5c core count: Zen5c are compact, efficiency-focused P-cores

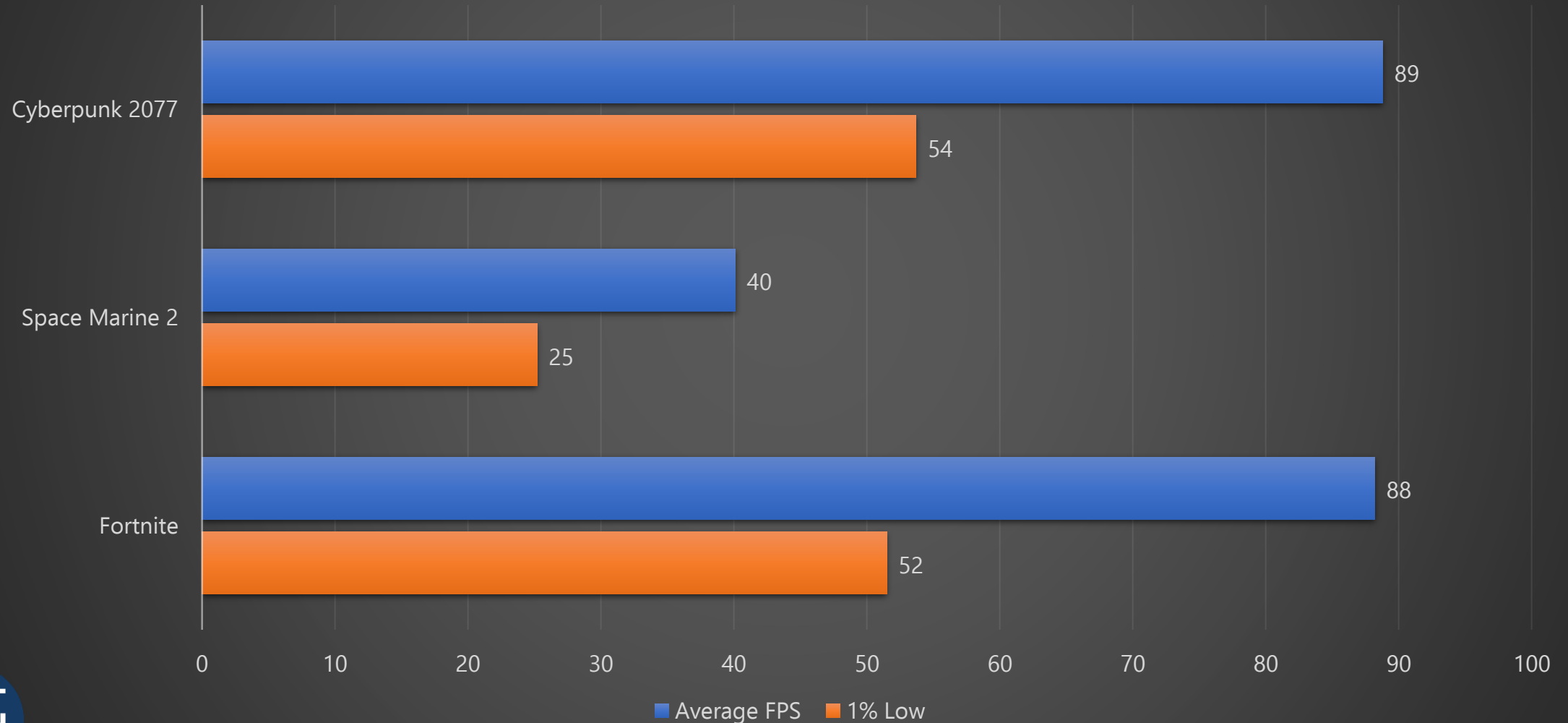
Port Royal

Highest Performance Modes, Higher is Better

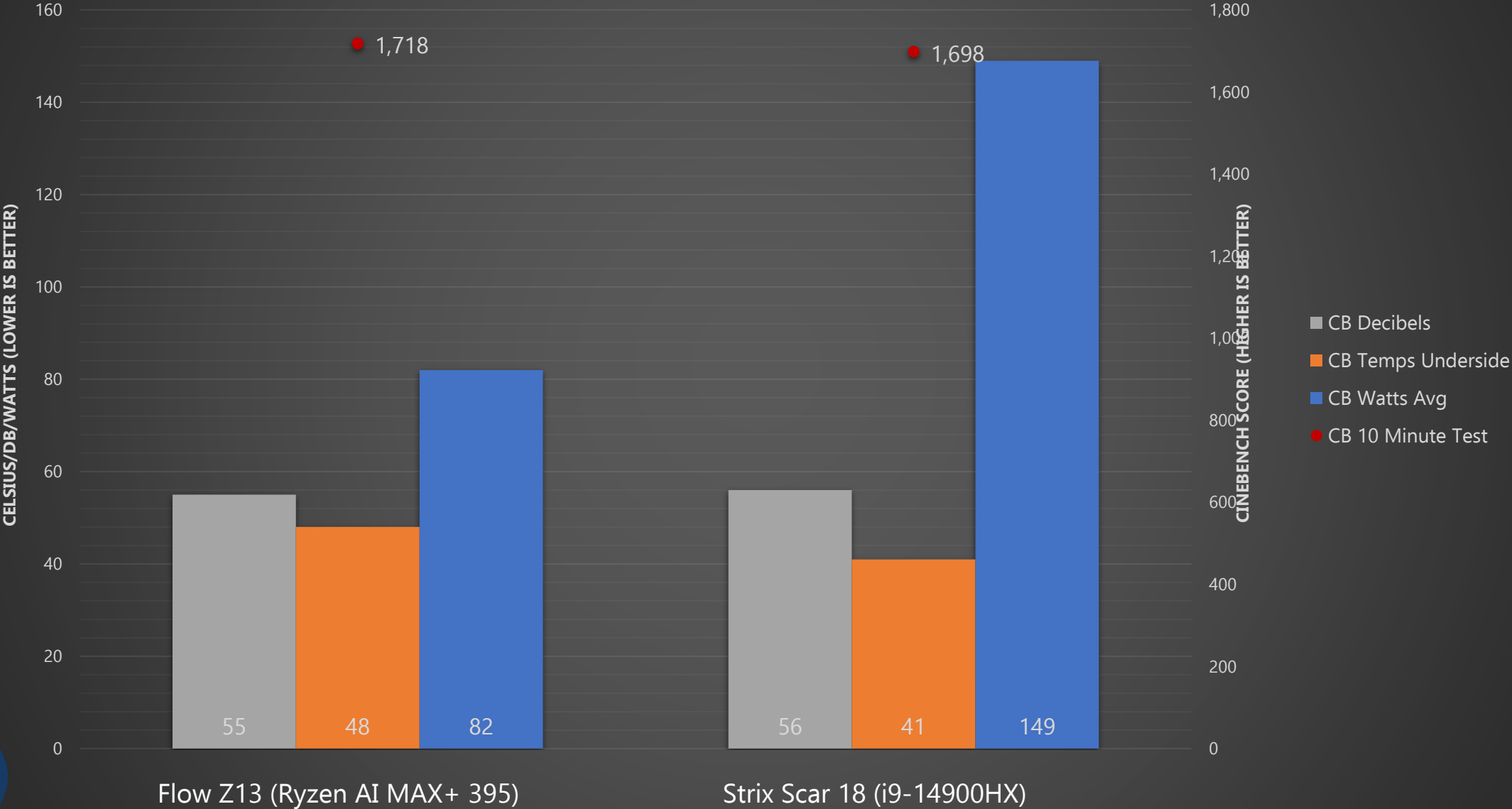


ROG Flow Z13 Gaming Performance

2560x1600, Medium Settings - Higher is Better

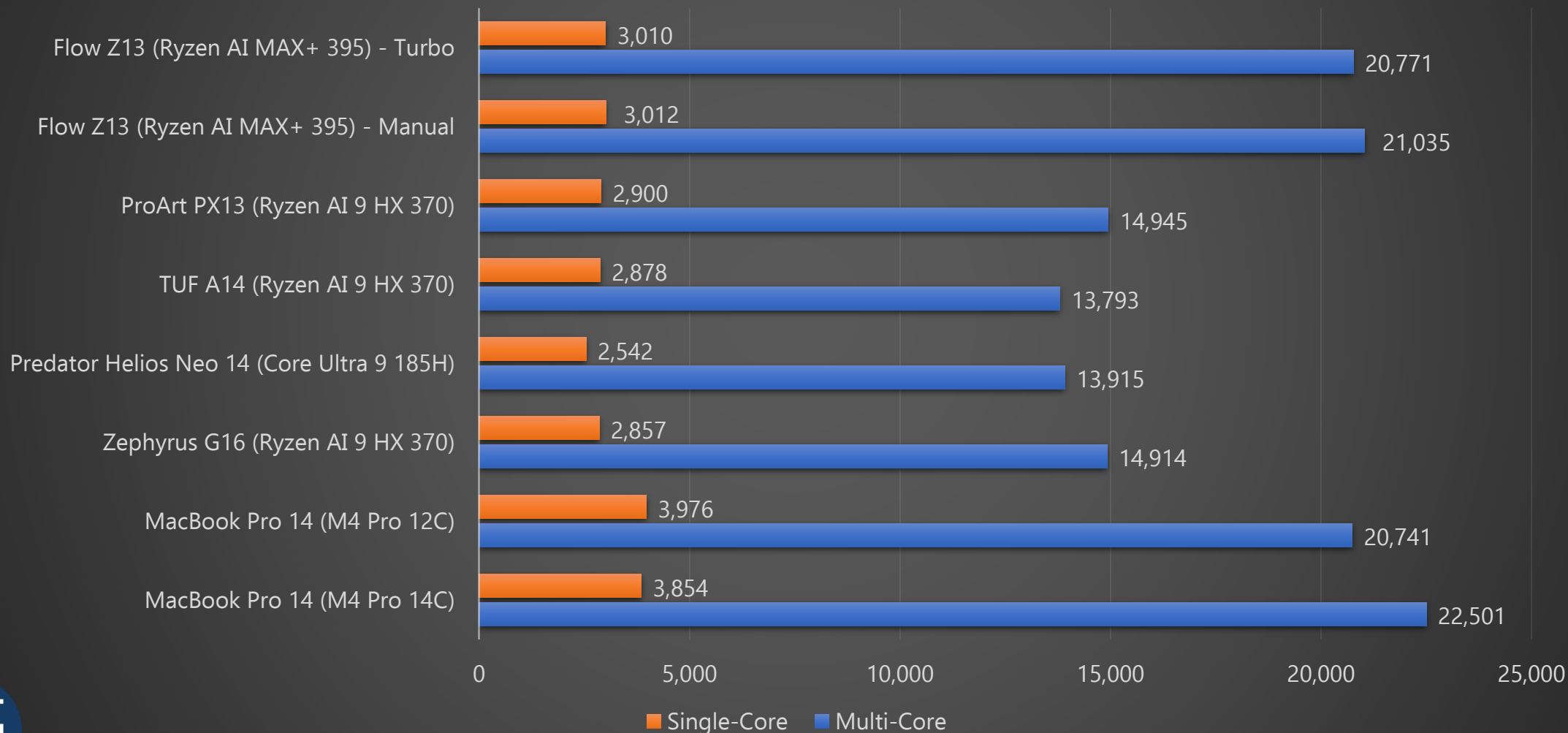


Cinebench 10-Minute Test Results



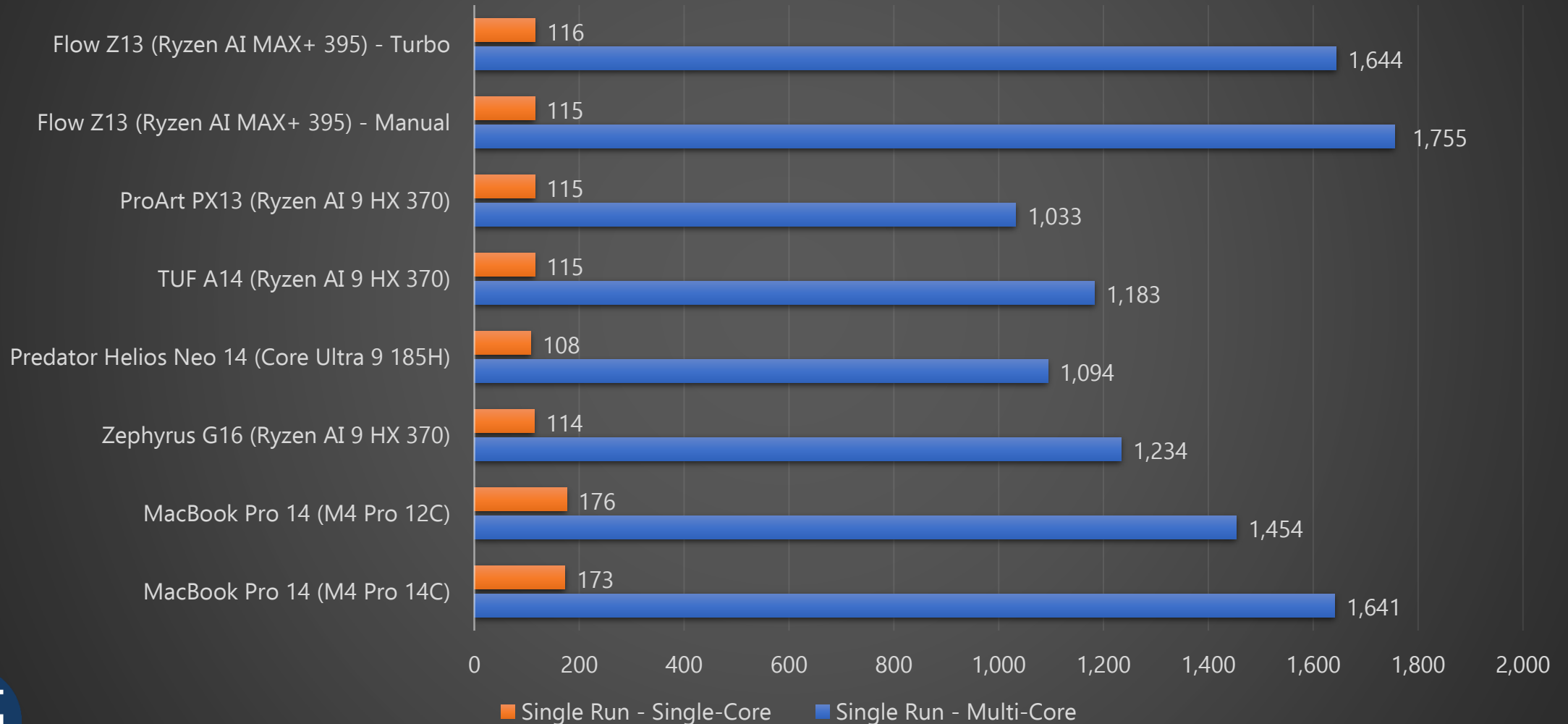
Common Performance Tasks - Geekbench 6

Highest Performance Modes, Higher is Better



Max CPU Performance - Cinebench 2024

Highest Performance Modes, Higher is Better



Machine Learning (LLM) Test

Deep Seek R1 Distill Qwen, Max GPU Offload

7 Billion Parameters (Q4 K M)

Laptop	GPU	VRAM (GB)	Mode	Fan Noise (dB)	Attempt 1	Duration	Attempt 2	Duration	Attempt 3	Duration
Flow Z13	Radeon 8060S	16	Turbo	45	Fail	00:07	Fail	00:31	Fail	03:17
Zephyrus G16	NVIDIA RTX 4070	8	Turbo	55	Fail	03:13	Fail	02:58	Fail	01:03
MacBook Pro 14 (M4 Pro)	20 Core	16	N/A	6	Fail	00:06	Pass	01:39	Fail	00:31

14 Billion Parameters (Q6 K)

Laptop	GPU	VRAM (GB)	Mode	Fan Noise (dB)	Attempt 1	Duration	Attempt 2	Duration	Attempt 3	Duration
Flow Z13	Radeon 8060S	16	Turbo	45	Pass	08:52	Pass	01:18	Fail	21:45
Zephyrus G16	NVIDIA RTX 4070	8	Turbo	55	DID NOT COMPLETE IN UNDER 30 MINUTES					
MacBook Pro 14 (M4 Pro)	20 Core	16	N/A	6	Fail	05:15	Pass	03:58	Pass	01:54



Machine Learning (LLM) Test

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Zephyrus G16	NVIDIA RTX 4070	8	Turbo	55	DID NOT COMPLETE IN UNDER 30 MINUTES					
MacBook Pro 14 (M4 Pro)	20 Core	16	N/A	6	Fail	05:15	Pass	03:58	Pass	01:54
Strix Scar 16	NVIDIA RTX 4090	16	Turbo	57	Fail	04:21	Fail	00:28	Fail	00:54

