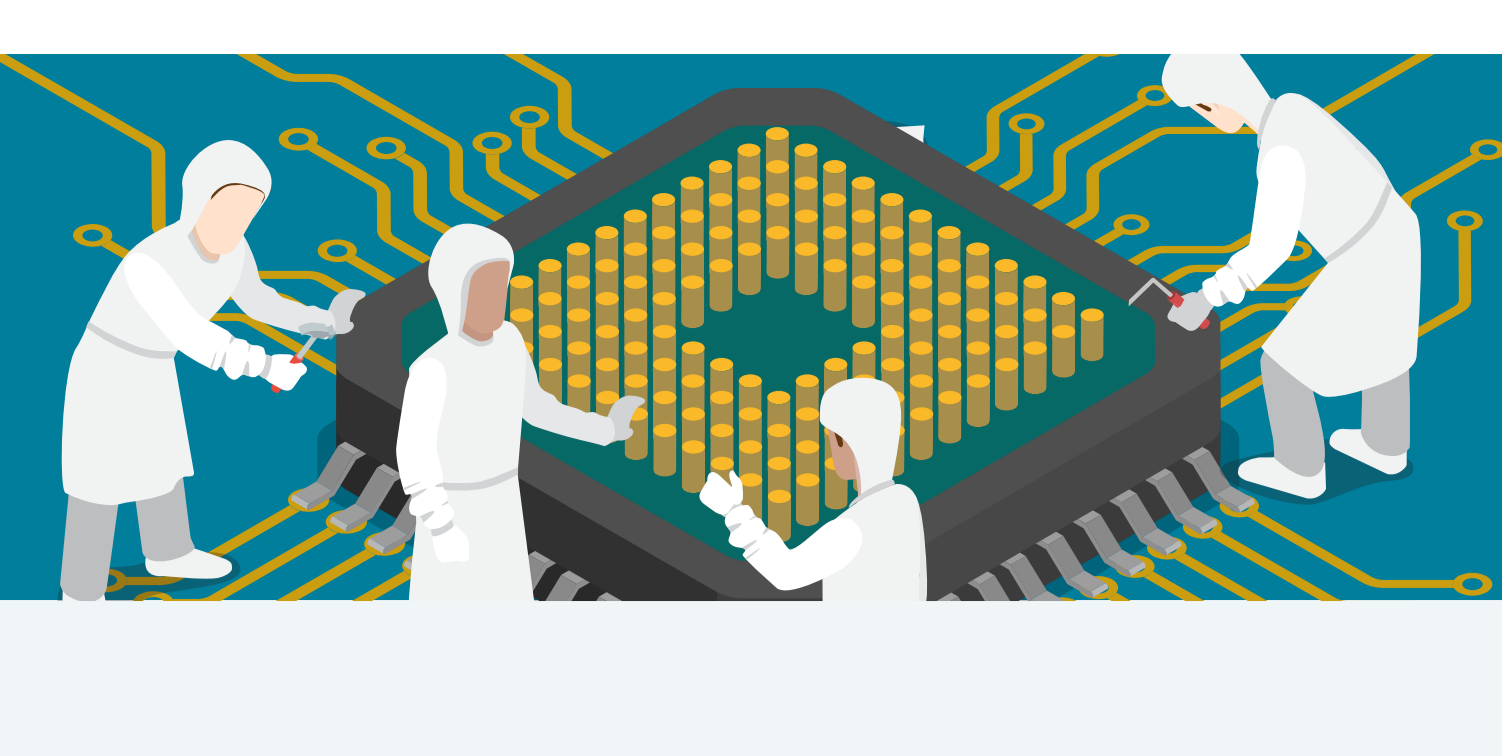


CPU Benchmarks

Over 1,000,000 CPUs Benchmarked



AMD Ryzen 7 6800H

Benchmarks for the AMD Ryzen 7 6800H can be found below. Release dates, price and performance comparisons are also listed when available. This is made using thousands of PerformanceTest benchmark results and is updated daily.

- The first graph shows the relative performance of the CPU compared to the 10 other common (single) CPUs in terms of PassMark CPU Mark.
- The 2nd graph shows the value for money, in terms of the CPUMark per dollar.
- The pricing history data shows the price for a single Processor. For multiple Processors, multiply the price shown by the number of CPUs.

Is the AMD Ryzen 7 6800H Good for Gaming?

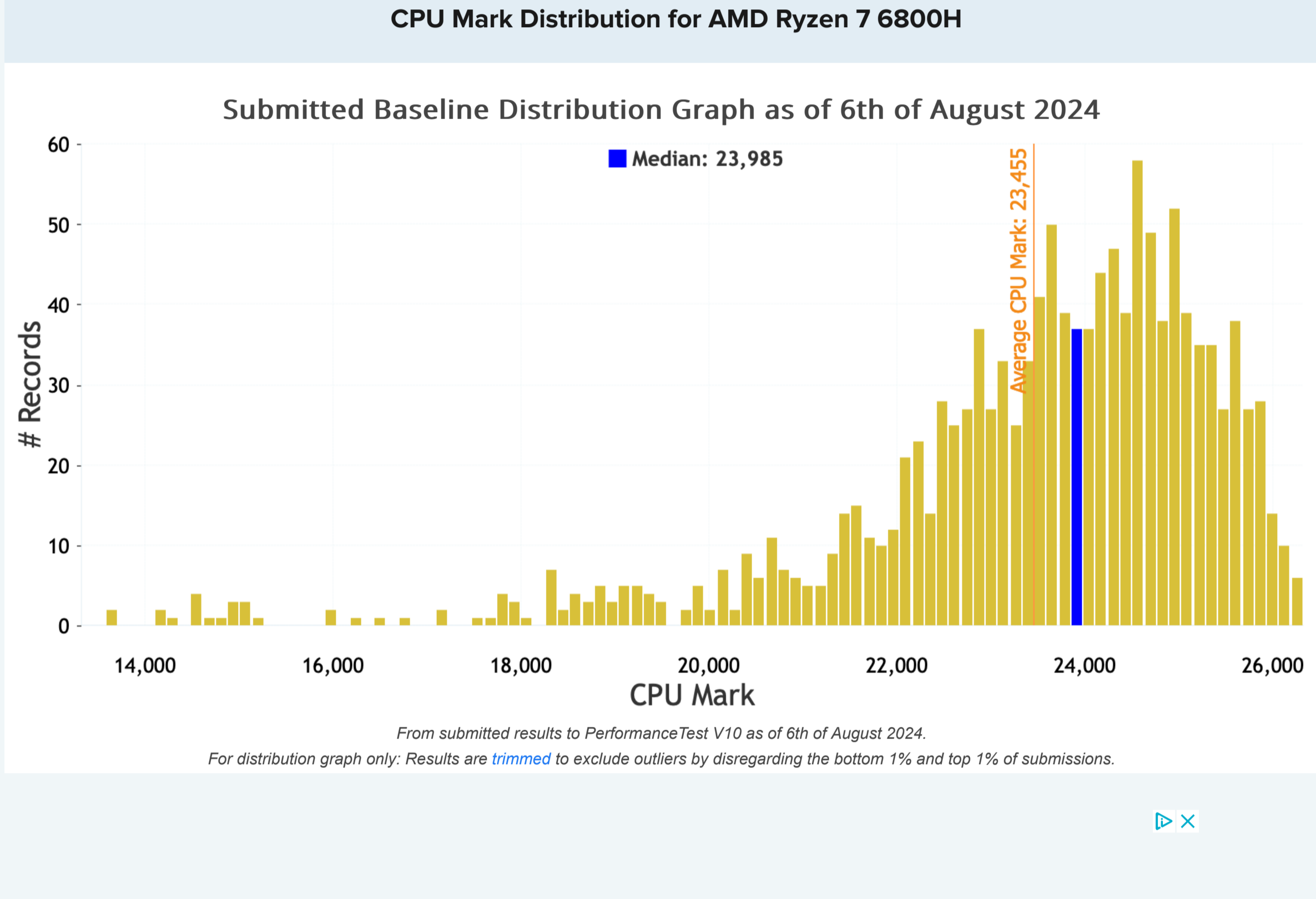
This is relatively new CPU that contains 8 Cores and 16 Threads. The AMD Ryzen 7 6800H also has reasonable threaded performance that will serve well in games. Paired with a good [videocard](#), is this CPU Good for Gaming? Yes, this would be a suitable CPU for gaming. [\[More ...\]](#)

CPUS	AMD Ryzen 7 6800H	Average CPU Mark
High End High Mid Range Low Mid Range Low End	Description: with Radeon Graphics Class: Laptop Socket: FP7 Clockspeed: 3.2 GHz Turbo Speed: 4.7 GHz Cores: 8 Threads: 16 Typical TDP: 45 W	Multithread Rating 23455 Single Thread Rating 3252 Samples: 1307* *Margin for error: Low + COMPARE
Best Value (On Market) Best Value XY Scatter Best Value (All time)	Cache per CPU Package: L1 Instruction Cache: 8 x 32 KB L1 Data Cache: 8 x 32 KB L2 Cache: 8 x 512 KB L3 Cache: 16 MB	
New Desktop New Laptop New Server New Mobile	Other names: AMD Ryzen 7 6800H with Radeon Graphics CPU First Seen on Charts: Q1 2022 CPUmark/\$Price: NA	
Single Thread Systems with Multiple CPUs Overclocked Power Performance CPU Mark by Socket Type Cross-Platform CPU Performance Top Gaming CPUs	Overall Rank: 481st fastest in multithreading out of 4785 CPUs 364th fastest in single threading out of 4785 CPUs 74th fastest in out of 1416 Laptop CPUs Last Price Change: NA	

CPU Test Suite Average Results for AMD Ryzen 7 6800H

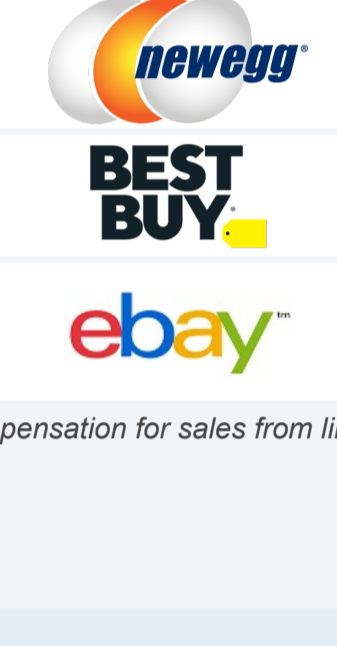
Integer Math	87,416 MOps/Sec
Floating Point Math	48,764 MOps/Sec
Find Prime Numbers	58 Million Primes/Sec
Random String Sorting	31,264 Thousand Strings/Sec
Data Encryption	18,672 MBytes/Sec
Data Compression	299,243 KBytes/Sec
Physics	1,057 Frames/Sec
Extended Instructions	20,392 Million Matrices/Sec
Single Thread	3,252 MOps/Sec

From submitted results to PerformanceTest V10 as of 7th of August 2024.



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Search for AMD Ryzen 7 6800H from the Featured Merchants below:



Note: PassMark Software may earn compensation for sales from links on this site through affiliate programs.

Machines with this CPU (or similar)

	ASUS ROG Strix G17 (2022) Gaming Laptop, 17.3" 144Hz IPS FHD Display, NVIDIA GeForce RTX 3050 GPU, AMD Ryzen 7 6800H Processor, 16GB DDR5 RAM, 512GB SSD, RGB Keyboard, Windows 11, G713RC-RS73	\$1149.99 <small>(www.amazon.com)</small>
	ASUS ROG Strix G15 (2022) Gaming Laptop, 15.6" 16:9 FHD 144Hz, GeForce RTX 3050, AMD Ryzen 7 6800HS, 8GB DDR5, 512GB PCIe SSD, Wi-Fi 6E, Windows 11, G513RC-EH71	\$944.99 <small>(www.amazon.com)</small>
	ASUS ROG Strix G15 (2022) Gaming Laptop, 15.6" 300Hz IPS FHD Display, NVIDIA GeForce RTX 3050, AMD Ryzen 7 6800H, 32GB DDR5, 1TB SSD, RGB Keyboard, Windows 11 Home, G513RC, Gray	\$1099.00 <small>(www.amazon.com)</small>
	acer Nitro 5 Gaming Laptop AMD Ryzen 7 6800H Octa-Core CPU NVIDIA GeForce RTX 3070 Ti Laptop GPU 15.6" QHD 165Hz IPS 32GB DDR5 1TB Gen 4 SSD Wi-Fi 6E RGB Backlit, Windows 11 Home	\$1110.00 <small>(www.amazon.com)</small>
	ASUS Zenbook Pro 17 17.3" touch display, 165Hz refresh rate, AMD Ryzen 7 6800H CPU, GeForce RTX 3050 graphics, 16GB RAM, 512GB SSD, Windows 11 Home, Tech Black, UM6702RC-DS74T	\$1179.00 <small>(www.amazon.com)</small>

Note: PassMark Software may earn compensation for sales from links on this site through affiliate programs.

CPU Mark Relative to Top 10 Common Laptop CPUs

As of 7th of August 2024 - Higher results represent better performance

Processor	Average CPU Mark
AMD Ryzen 7 6800H	23,455
Apple M1 Max 10 Core 3200 MHz	22,054
AMD Ryzen 7 5800H	21,040
Intel Core i7-11800H @ 2.30GHz	20,510
AMD Ryzen 7 4800H	18,535
Apple M2 8 Core 3500 MHz	15,539
Apple M1 8 Core 3200 MHz	14,173
AMD Ryzen 5 5500U	13,036
Intel Core i7-10750H @ 2.60GHz	11,877
Intel Core i7-9750H @ 2.60GHz	10,837
Intel Core i5-1135G7 @ 2.40GHz	9,784

CPU Value (CPU Mark / \$Price)

As of 7th of August 2024 - Higher results represent better value

Processor	CPU Mark / \$Price
Intel Core i7-11800H @ 2.30GHz	51.92
Intel Core i5-1135G7 @ 2.40GHz	31.66
Intel Core i7-9750H @ 2.60GHz	11.29
AMD Ryzen 7 6800H	NA
Apple M1 8 Core 3200 MHz	NA
Apple M2 8 Core 3500 MHz	NA
Apple M1 Max 10 Core 3200 MHz	NA
AMD Ryzen 7 5800H	NA
AMD Ryzen 7 4800H	NA
AMD Ryzen 5 5500U	NA
Intel Core i7-10750H @ 2.60GHz	NA

Single Thread Rating

As of 7th of August 2024 - Higher results represent better performance

Processor	Average Thread Rating
Apple M2 8 Core 3500 MHz	3,917
Apple M1 Max 10 Core 3200 MHz	3,837
Apple M1 8 Core 3200 MHz	3,695
AMD Ryzen 7 6800H	3,252
Intel Core i7-11800H @ 2.30GHz	3,078
AMD Ryzen 7 5800H	3,047
Intel Core i5-1135G7 @ 2.40GHz	2,685
Intel Core i7-10750H @ 2.60GHz	2,658
AMD Ryzen 7 4800H	2,615
AMD Ryzen 5 5500U	2,441
Intel Core i7-9750H @ 2.60GHz	2,427

Last 5 Baselines for AMD Ryzen 7 6800H

Most recent listed first

Baseline	CPU Mark
BL2158481 - Jul 31 2024	22698
BL2158348 - Jul 31 2024	21968
BL2157081 - Jul 30 2024	24421
BL2156738 - Jul 29 2024	21588
BL2155803 - Jul 28 2024	17826

Additional baselines can be obtained using Windows version of PerformanceTest's Manage Baselines feature.

Popular comparisons for AMD Ryzen 7 6800H

As of 7th of August 2024 - Higher results represent better performance

Processor	Average CPU Mark
AMD Ryzen 7 6800H	23,455
Intel Core i9-12900H vs AMD Ryzen 7 6800H	28,049 (+19.6%)
Intel Core i7-12700H vs AMD Ryzen 7 6800H	26,187 (+11.6%)
Intel Core i7-12650H vs AMD Ryzen 7 6800H	22,895 (-3.2%)
AMD Ryzen 7 7840HS vs AMD Ryzen 7 6800H	28,933 (+23.4%)
AMD Ryzen 9 6900HX vs AMD Ryzen 7 6800H	24,822 (+5.8%)
AMD Ryzen 9 6900HS vs AMD Ryzen 7 6800H	23,614 (+0.7%)
AMD Ryzen 9 5980HX vs AMD Ryzen 7 6800H	23,540 (+0.4%)
AMD Ryzen 7 6800HS vs AMD Ryzen 7 6800H	22,996 (-2.0%)
Apple M1 Max 10 Core 3200 MHz vs AMD Ryzen 7 6800H	22,054 (-6.0%)
Apple M1 Pro 10 Core 3200 MHz vs AMD Ryzen 7 6800H	21,855 (-6.8%)
AMD Ryzen 7 6800HS Creator Edition vs AMD Ryzen 7 6800H	21,766 (-7.2%)
Intel Core i5-12500H vs AMD Ryzen 7 6800H	21,193 (-9.6%)

Is the AMD Ryzen 7 6800H Good for Gaming?

As of 7th of August 2024 - Higher results represent better performance

Processor	Relative Gaming Score
Intel Core i9-14900HX	7,058
Intel Core i9-13950HX	6,915
Intel Core i9-13900HX	6,854
Intel Core i9-13980HX	6,691
AMD Ryzen 9 7945HX3D	6,657
Intel Core i7-14650HX	6,434
Intel Core i7-13850HX	6,402
Intel Core i5-14500HX	6,226
Intel Core i9-13900HK	6,211
Intel Core i9-13905H	6,182
Intel Core Ultra 9 185H	6,036
Intel Core i7-14700HX	6,002
AMD Ryzen 7 6800H	3,159

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