

CPU Benchmarks

Video Card Benchmarks

Hard Drive Benchmarks

Memory Benchmarks

PC Benchmarks

Software Marketshare

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Android Benchmarks

iOS Benchmarks

- 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 Intel Core i5-13420H Good for Gaming?

This is relatively new CPU that contains 8 Cores and 12 Threads. The Intel Core i5-13420H 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. [\[More ...\]](#)

Intel Core i5-13420H	
Description: Intel UHD Graphics for 13th Gen Intel Processors	
Class: Laptop	Socket: FCBGA1744
Total Cores: 8 Cores, 12 Threads	
Performance Cores: 4 Cores, 8 Threads, 2.1 GHz Base, 4.6 GHz Turbo	
Efficient Cores: 4 Cores, 4 Threads, 1.5 GHz Base, 3.4 GHz Turbo	
Typical TDP: 45 W	TDP Down: 35 W
TDP Up : 95 W	
Cache per CPU Package: L1 Instruction Cache: 4 x 32 KB L1 Data Cache: 4 x 48 KB L2 Cache: 4 x 1280 KB L3 Cache: 12 MB	Cache per Eff. CPU Package: Eff. L1 Instruction Cache: 4 x 64 KB Eff. L1 Data Cache: 4 x 32 KB Eff. L2 Cache: 1 x 2048 KB
Memory Support: Max. Memory Size: 64 GB (Up to DDR5 5200 MT/s Up to DDR4 3200 MT/s Up to LPDDR5/x 5200 MT)	
Other names: 13th Gen Intel(R) Core(TM) i5-13420H, 13th Gen Intel Core i5-13420H	

Average CPU Mark

Multithread Rating

17777

Single Thread Rating

3415

Samples: 968*

*[Margin for error:](#) Low

+ COMPARE

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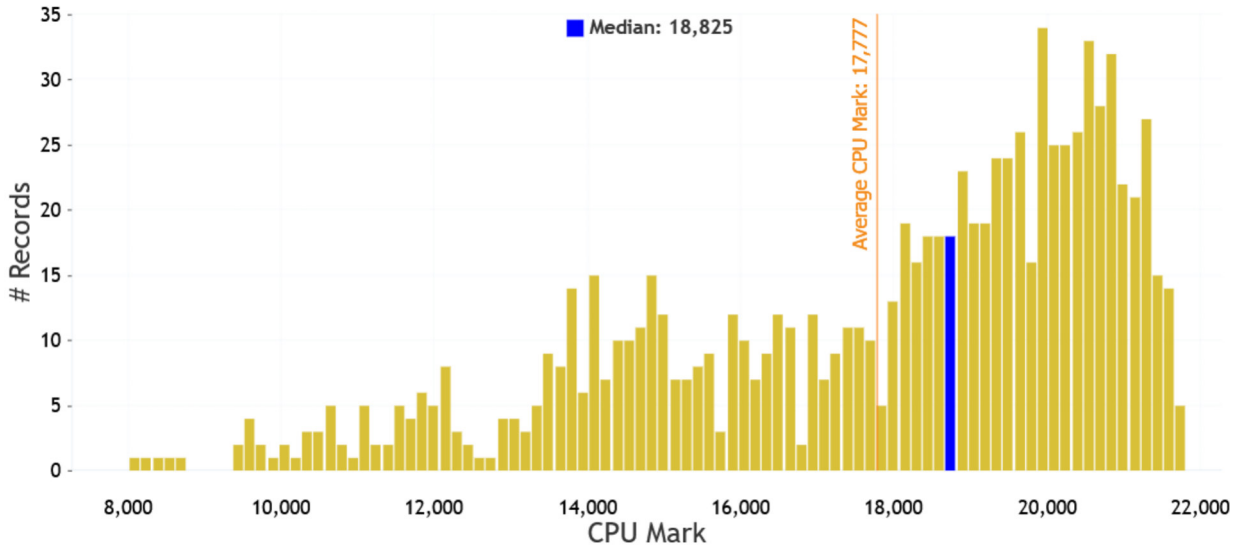
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Random String Sorting	22,439 Thousand Strings/Sec
Data Encryption	11,816 MBytes/Sec
Data Compression	214,539 KBytes/Sec
Physics	1,026 Frames/Sec
Extended Instructions	13,203 Million Matrices/Sec
Single Thread	3,415 MOps/Sec

From submitted results to PerformanceTest V10 as of 24th of March 2025.

CPU Mark Distribution for Intel Core i5-13420H

Submitted Baseline Distribution Graph as of 18th of March 2025



From submitted results to PerformanceTest V10 as of 18th of March 2025.

For distribution graph only: Results are [trimmed](#) to exclude outliers by disregarding the bottom 1% and top 1% of submissions.

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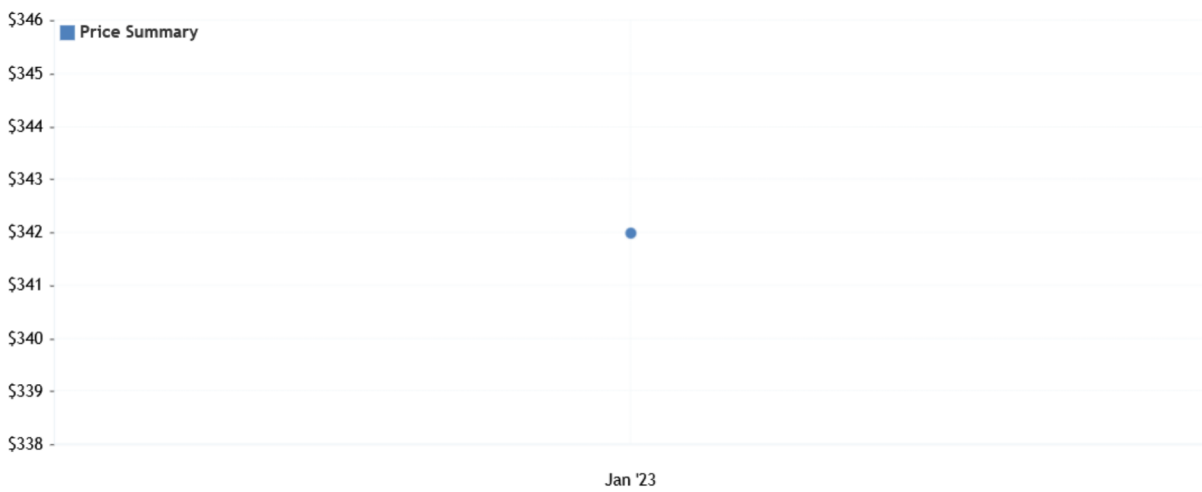
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Machines with this CPU (or similar)

	Acer Nitro V Gaming Laptop Intel Core i5-13420H Processor NVIDIA GeForce RTX 4050 Laptop GPU 15.6" FHD IPS 144Hz Display 8GB DDR5 512GB Gen 4 SSD WiFi 6 Backlit KB ANV15-51-51H9	\$698.97 <small>(www.amazon.com)</small>
	HP Victus 15.6 inch FHD 144Hz Gaming Laptop Intel Core i5-13420H NVIDIA GeForce RTX 4050 6GB - 16GB DDR4 512GB SSD Mica Silver (2024)	\$681.90 <small>(www.amazon.com)</small>
	Lenovo V15 Gen 4 Laptop, 15.6" FHD Display, Intel Core i5-13420H (Beat i7-1355U), 24GB RAM, 1TB SSD, HDMI, RJ45, Numeric Keypad, Webcam, Wi-Fi, Windows 11 Home, Black	\$524.95 <small>(www.amazon.com)</small>
	Lenovo V15 Gen 4 Business Laptop, 15.6" FHD Display, Intel Core i5-13420H (Beat i7-1355U), 16GB RAM, 512GB SSD, HDMI, RJ45, Webcam, Numeric Keypad, Wi-Fi, Windows 11 Pro, Black	\$484.00 <small>(www.amazon.com)</small>
	Lenovo V15 G4 15.6" FHD Business Laptop Computer, 13th Gen Intel Octa-Core i5-13420H up to 4.6GHz (Beat i7-1355U), 16GB DDR4 RAM, 512GB PCIe SSD, WiFi, Bluetooth 5.2, RJ-45, Windows 11 Pro, Befectoy	\$569.00 <small>(www.amazon.com)</small>

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Apple M1 8 Core 3200 MHz	14,145
Intel Core i7-10750H @ 2.60GHz	11,730
Intel Core i7-9750H @ 2.60GHz	10,732
Intel Core i5-1135G7 @ 2.40GHz	9,636

CPU Value (CPU Mark / \$Price)

As of 24th of March 2025 - Higher results represent better value

Processor	CPU Mark / \$Price
Intel Core i5-13420H	51.98
Intel Core i7-11800H @ 2.30GHz	51.10
Intel Core i5-1135G7 @ 2.40GHz	31.19
Intel Core i7-9750H @ 2.60GHz	11.18
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 5600H	NA
Intel Core i7-10750H @ 2.60GHz	NA

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Intel Core i5-1135G7 @ 2.40GHz	2,661
Intel Core i7-10750H @ 2.60GHz	2,642
AMD Ryzen 7 4800H	2,604
Intel Core i7-9750H @ 2.60GHz	2,411

Last 5 Baselines for Intel Core i5-13420H

Most recent listed first

Baseline	CPU Mark
BL2501625 - Mar 23 2025	17083
BL2501173 - Mar 22 2025	14449
BL2500535 - Mar 22 2025	20260
BL2500254 - Mar 22 2025	19517
BL2499668 - Mar 22 2025	3785

Additional baselines can be obtained using Windows version of [PerformanceTest's Manage Baselines](#) feature.

Popular comparisons for Intel Core i5-13420H

As of 24th of March 2025 - Higher results represent better performance

Processor	Average CPU Mark
Intel Core i5-13420H	17,777
Intel Core i5-1350P vs Intel Core i5-13420H	19,062 (+7.2%)

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Intel Core i7-1255U vs Intel Core i5-13420H	13,412 (-24.6%)
Intel Core Ultra 5 125U vs Intel Core i5-13420H	17,168 (-3.4%)

Is the Intel Core i5-13420H Good for Gaming?

As of 24th of March 2025 - Higher results represent better performance

Processor	Relative Gaming Score
Intel Core Ultra 9 275HX	8,222
Intel Core Ultra 7 265	8,049
Intel Core i9-14900HX	7,076
Intel Core 7 250H	6,905
Intel Core i9-13950HX	6,837
Intel Core i9-13900HX	6,826
Intel Core i9-13980HX	6,794
AMD Ryzen 9 7945HX3D	6,521
AMD Ryzen 7 7840HX	6,302
Intel Core i7-14700HX	6,174
AMD Ryzen 9 7845HX	6,163
Intel Core i7-13850HX	6,162
Intel Core i5-13420H	2,266

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