CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

AMD Ryzen 3 5300U

Price and performance details for the AMD Ryzen 3 5300U can be found below. 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 3 5300U Good for Gaming?

This is relatively new CPU that contains 4 Cores and 8 Threads. Paired with a good videocard, *is this CPU Good for Gaming?* This CPU should be able to play most games, but may be a bottleneck on newer releases. [More ...]

AMD Ryzen 3 5300U

Description: with Radeon Graphics

Class: Laptop	**Socket:** FP6
Clockspeed: 2.6 GHz	**Turbo Speed:** 3.8 GHz
Cores: 4	**Typical TDP:** 15 W
Threads: 8	
TDP Down: 10 W	**TDP Up** : 25 W

Cache per CPU Package:

L1 Instruction Cache: 4 x 32 KB
L1 Data Cache: 4 x 32 KB
L2 Cache: 4 x 512 KB
L3 Cache: 4 MB

Other names: AMD Ryzen 3 5300U with Radeon Graphics

CPU First Seen on Charts: Q2 2021

Average CPU Mark

9706

Single Thread Rating: 2351
Samples: 613*
*Margin for error: Low

+ COMPARE

Overall Rank: 1070

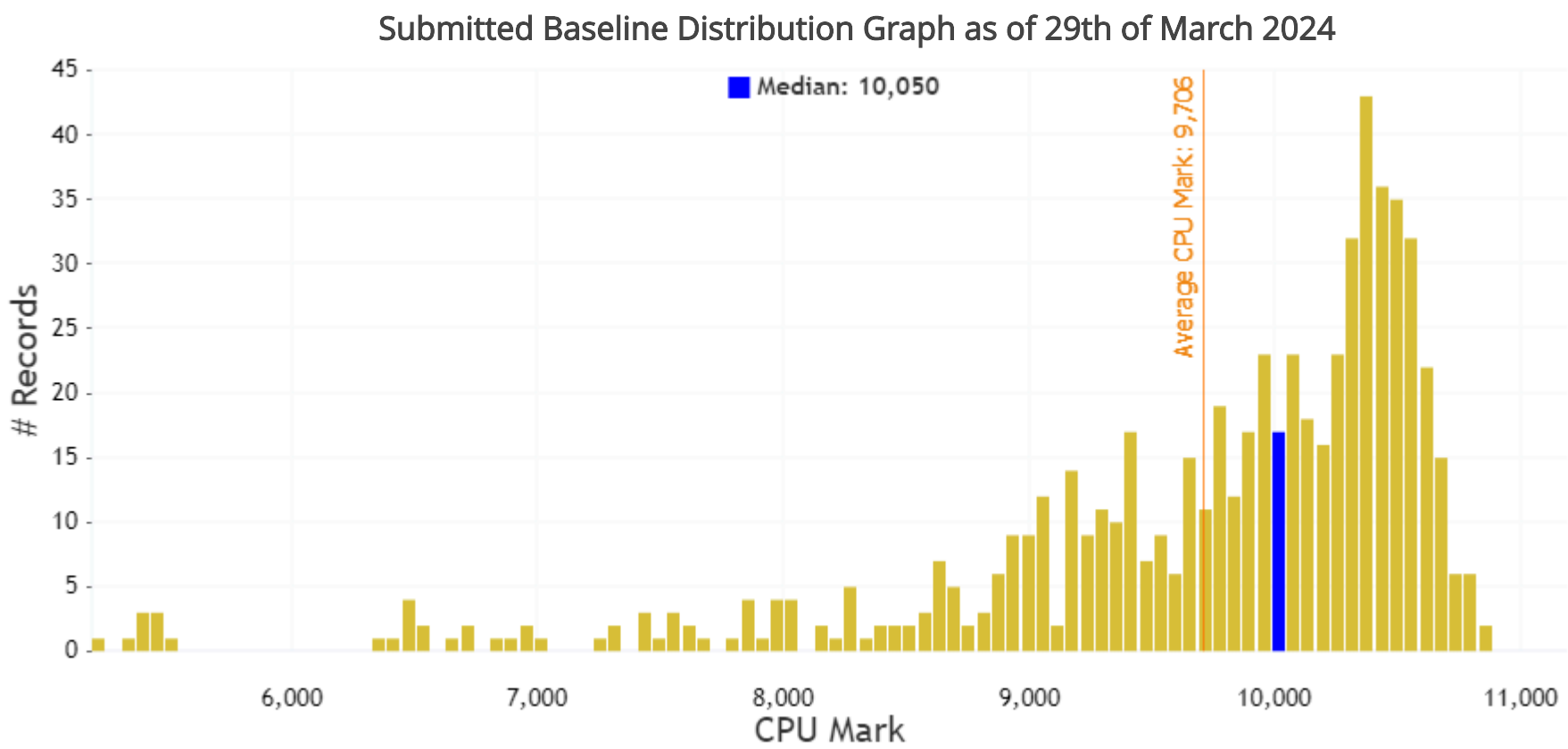
CPU Benchmarks

CPU Test Suite Average Results for AMD Ryzen 3 5300U

Integer Math	30,159 MOps/Sec
Floating Point Math	17,883 MOps/Sec
Find Prime Numbers	19 Million Primes/Sec
Random String Sorting	14,219 Thousand Strings/Sec
Data Encryption	8,063 MBytes/Sec
Data Compression	133,773 KBytes/Sec
Physics	423 Frames/Sec
Extended Instructions	8,536 Million Matrices/Sec
Single Thread	2,351 MOps/Sec

From submitted results to PerformanceTest V10 as of 3rd of April 2024.

CPU Mark Distribution for AMD Ryzen 3 5300U



From submitted results to PerformanceTest V10 as of 29th of March 2024.
For distribution graph only: Results are trimmed to exclude outliers by disregarding the bottom 1% and top 1% of submissions.

Search for AMD Ryzen 3 5300U

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CPU Benchmarks

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Machines with this CPU (or similar)

Configure System with AMD Ryzen 3 5300U

	HP 15 Laptop, AMD Ryzen 3-5300U Processor, 8 GB RAM, 256 GB SSD Storage, 15.6-inch HD Micro-Edge Display, Windows 11 Home, Long-Lasting Battery, Fast Charge, 720p Webcam (15-ef2024nr), Natural silver	$327.00 (www.amazon.com)
	HP Laptop 15, 15.6" HD (1366 x 768) Display, AMD Ryzen 3 5300U, Micro-Edge, Anti-Glare, Long Battery Life, Bluetooth, Webcam, w/P500 SSD Bundle, Windows 11 Home (32GB RAM | 1TB PCIe SSD)	$489.00 (www.amazon.com)
	HP 2023 Newest Laptop, 15.6" HD Display, AMD Ryzen 3 5300U (4 cores), 12GB RAM, 512GB SSD, AMD Radeon Graphics, Wi-Fi, Bluetooth, Numeric Keypad, Windows 11 Home	$388.40 (www.amazon.com)
	HP 2023 Newest Laptop for Business and Student, 15.6" HD Display, AMD Ryzen 3 5300U 4-Core Processor, 16GB RAM, 512GB SSD, Wi-Fi, Type-C, Media Card Reader, Windows 11 Home, Silver, KKE Accessories	$376.92 (www.amazon.com)
	HP Essential 15 Laptop, 15.6" HD Screen, AMD Ryzen 3 5300U, 32GB RAM, 1TB SSD, Webcam, HDMI, Wi-Fi, Windows 11 Home, Silver	$439.00 (www.amazon.com)

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CPU Mark Relative to Top 10 Common Laptop CPUs

As of 3rd of April 2024 - Higher results represent better performance

Processor	Average CPU Mark	
Apple M1 Max 10 Core 3200 MHz		22,013
AMD Ryzen 7 5800H		21,090
Intel Core i7-11800H @ 2.30GHz		20,655
AMD Ryzen 7 4800H		18,587
Apple M2 8 Core 3500 MHz		15,406
Apple M1 8 Core 3200 MHz		14,185
AMD Ryzen 5 5500U		13,082
Intel Core i7-10750H @ 2.60GHz		11,943
Intel Core i7-9750H @ 2.60GHz		10,894

AMD Ryzen 3 5300U		9,706

CPU Benchmarks

CPU Value (CPU Mark / $Price)

As of 3rd of April 2024 - Higher results represent better value

Processor	CPU Mark / $Price	
Intel Core i7-11800H @ 2.30GHz		52.29
Intel Core i5-1135G7 @ 2.40GHz		31.83
Intel Core i7-9750H @ 2.60GHz		11.35
AMD Ryzen 3 5300U		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 3rd of April 2024 - Higher results represent better performance

Processor	Average Thread Rating	
Apple M2 8 Core 3500 MHz		3,929
Apple M1 Max 10 Core 3200 MHz		3,839
Apple M1 8 Core 3200 MHz		3,705
Intel Core i7-11800H @ 2.30GHz		3,090
AMD Ryzen 7 5800H		3,050
Intel Core i5-1135G7 @ 2.40GHz		2,691
Intel Core i7-10750H @ 2.60GHz		2,667
AMD Ryzen 7 4800H		2,617

Intel Core i7-9750H @ 2.60GHz		2,435

CPU Benchmarks

Last 5 Baselines for AMD Ryzen 3 5300U

Most recent listed first

Baseline	CPU Mark
BL2064792 - Mar 29 2024	10226
BL2064165 - Mar 29 2024	10191
BL2063857 - Mar 28 2024	6572
BL2063128 - Mar 28 2024	9747
BL5059237 - Mar 23 2024	4378

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

Popular comparisons for AMD Ryzen 3 5300U

As of 3rd of April 2024 - Higher results represent better performance

Processor	Average CPU Mark
AMD Ryzen 3 5300U	9,706
Intel Core i7-11370H @ 3.30GHz vs AMD Ryzen 3 5300U	11,734 *(+20.9%)*
AMD Ryzen 3 5400U vs AMD Ryzen 3 5300U	11,029 *(+13.6%)*
Intel Core i5-11300H @ 3.10GHz vs AMD Ryzen 3 5300U	10,975 *(+13.1%)*
Intel Core i7-1195G7 @ 2.90GHz vs AMD Ryzen 3 5300U	10,891 *(+12.2%)*
Intel Core i7-1185G7 @ 3.00GHz vs AMD Ryzen 3 5300U	10,523 *(+8.4%)*
Intel Core i7-1165G7 @ 2.80GHz vs AMD Ryzen 3 5300U	10,299 *(+6.1%)*
Intel Core i5-1145G7 @ 2.60GHz vs AMD Ryzen 3 5300U	9,891 *(+1.9%)*
Intel Core i5-1135G7 @ 2.40GHz vs AMD Ryzen 3 5300U	9,837 *(+1.3%)*
Intel Core i3-1125G4 @ 2.00GHz vs AMD Ryzen 3 5300U	9,696 *(-0.1%)*
Intel Core i5-10200H @ 2.40GHz vs AMD Ryzen 3 5300U	8,154 *(-16.0%)*
Intel Core i7-11375H @ 3.30GHz vs AMD Ryzen 3 5300U	11,874 *(+22.3%)*

Is the AMD Ryzen 3 5300U Good for Gaming?

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Processor	Relative Gaming Score	
Intel Core i9-14900HX		7,150
Intel Core i7-14650HX		7,066
Intel Core i9-13950HX		6,997
AMD Ryzen 9 7945HX3D		6,880
Intel Core i9-13900HX		6,879
Intel Core i9-13980HX		6,700
Intel Core Ultra 7 165H		6,460
Intel Core i7-13850HX		6,396
Intel Core i9-13905H		6,257
Intel Core i9-13900HK		6,206
Intel Core Ultra 9 185H		6,056
Intel Core i7-13800H		5,959
AMD Ryzen 3 5300U		1,200

Software

BurnInTest
PerformanceTest
OSForensics
MemTest86
WirelessMon
Management Console
Zoom Search Engine
Free Software

Hardware

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USB2.0 Loopback Plugs
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