



CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

New Laptop CPU Performance

This chart comparing performance of CPUs designed for laptop and portable machines is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

Notes:

- While we try to keep this chart mainly desktop CPU free, there might be some desktop processors in the list. This is because the classification of a laptop CPU is determined at result submission time by the user of PerformanceTest. Some users incorrectly clicked the "Laptop" check box.
- The chart shows only CPUs that had their benchmark first submitted within the last 36 months. Older laptop CPUs may not appear.

 CPU

 High End

High Mid RangeLow Mid RangeLow End

 Best Value (On Market)

Best Value XY ScatterBest Value (All time)

 New Desktop

New Laptop

 Single Thread

Systems with Multiple CPUsOverclockedPower PerformanceCPU Mark by Socket TypeCross-Platform CPU Performance

 CPU Mega List

Search Model

CPU Mark

Price Performance

Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 28th of June 2022

CPU	CPU Mark	Price (USD)
 Intel Core i9-12950HX	39,136	\$590.00*
 Intel Core i7-12800HX	37,866	\$457.00*
 Intel Core i7-12850HX	31,111	\$428.00*
 Intel Core i9-12900HX	31,048	\$606.00*
 Intel Core i9-12900H	29,468	\$617.00*
 Intel Core i9-12900HK	28,939	\$635.00*
 Intel Core i7-12700H	27,235	\$457.00*
 Intel Core i5-12600HX	24,689	\$284.00*
 Intel Core i7-12650H	24,600	\$457.00*
 AMD Ryzen 9 6900HX	24,589	NA
 AMD Ryzen 9 6900HS	24,487	NA
 AMD Ryzen 7 PRO 6850H	24,325	NA
 AMD Ryzen 7 6800HS	24,067	NA
 AMD Ryzen 7 PRO 6850U	23,955	NA
 Intel Core i7-12800H	23,640	\$457.00*
 Intel Core i9-11980HK @ 2.60GHz	23,630	\$583.00*
 AMD Ryzen 7 6800H	23,506	NA
 Intel Xeon W-11955M @ 2.60GHz	23,420	\$623.00*
 AMD Ryzen 9 PRO 6950HS	23,392	NA
 AMD Ryzen 9 5980HX	23,219	NA
 AMD Ryzen 9 5900HX	23,096	NA
 Intel Core i5-12500H	22,786	\$311.00*



Compare 0



CPU Benchmarks



Most

Benchmarked



AMD vs Intel
Market Share

Year on Year

Performance



[Intel Core i9-11950H @ 2.60GHz](#)



[22,394](#)

[\\$556.00*](#)



[Apple M1 Pro 10 Core 3200 MHz](#)



[22,151](#)

[NA](#)



[Intel Core i5-1250P](#)



[22,148](#)

[NA](#)



[AMD Ryzen 7 6800U](#)



[21,501](#)

[NA](#)



[AMD Ryzen 9 5980HS](#)



[21,491](#)

[NA](#)



[AMD Ryzen 7 5800H](#)



[21,381](#)

[NA](#)



[Intel Core i7-11800H @ 2.30GHz](#)



[21,229](#)

[\\$395.00*](#)



[Intel Core i7-11850H @ 2.50GHz](#)



[21,205](#)

[\\$395.00*](#)



[Intel Core i9-11900H @ 2.50GHz](#)



[21,191](#)

[\\$546.00*](#)



[Intel Core i5-12600H](#)



[21,000](#)

[\\$311.00*](#)



[AMD Ryzen 9 5900H](#)



[20,960](#)

[NA](#)



[AMD Ryzen 7 5800HS Creator Edition](#)



[20,948](#)

[NA](#)



[AMD Ryzen 7 5800HS](#)



[20,670](#)

[NA](#)



[AMD Ryzen 9 4900HS](#)



[19,362](#)

[NA](#)



[AMD Ryzen 9 4900H](#)



[19,343](#)

[NA](#)



[Intel Core i5-12450H](#)



[19,240](#)

[\\$311.00*](#)



[Intel Core i7-1280P](#)



[19,142](#)

[\\$482.00*](#)



[AMD Ryzen 7 PRO 6850HS](#)



[19,069](#)

[NA](#)



[Intel Core i7-1270P](#)



[19,045](#)

[NA](#)



[AMD Ryzen 7 4800H](#)



[19,001](#)

[NA](#)



[AMD Ryzen 7 5800U](#)



[18,914](#)

[NA](#)



[AMD Ryzen 7 4800HS](#)



[18,840](#)

[NA](#)



[Intel Xeon W-11855M @ 3.20GHz](#)



[18,810](#)

[\\$450.00*](#)



[AMD Ryzen 7 5825U](#)



[18,360](#)

[NA](#)



[Intel Core i3-1220P](#)



[18,329](#)

[\\$281.00*](#)



[Intel Core i5-1240P](#)



[18,222](#)

[NA](#)



[AMD Ryzen 7 Extreme Edition](#)



[18,209](#)

[NA](#)



[AMD Ryzen 5 PRO 6650U](#)



[17,622](#)

[NA](#)



[AMD Ryzen 7 PRO 5850U](#)



[17,473](#)

[NA](#)



[Apple M1 Pro 8 Core 3200 MHz](#)



[17,376](#)

[NA](#)



[AMD Ryzen 5 5600H](#)



[17,192](#)

[NA](#)



[AMD Ryzen 5 5560U](#)



[17,084](#)

[NA](#)



[AMD Ryzen 7 4800U](#)



[16,992](#)

[NA](#)



[Intel Core i7-1260P](#)



[16,991](#)

[NA](#)



[AMD Ryzen 7 PRO 5875U](#)



[16,759](#)

[NA](#)



[Intel Core i7-10700TE @ 2.00GHz](#)



[16,332](#)

[\\$330.00*](#)



[Intel Core i7-10700E @ 2.90GHz](#)



[16,257](#)

[\\$330.00*](#)



[Intel Core i5-11500H @ 2.90GHz](#)



[16,233](#)

[\\$250.00*](#)



[Intel Core i9-10980HK @ 2.40GHz](#)



[16,089](#)

[\\$583.00*](#)



[Intel Xeon W-10885M @ 2.40GHz](#)



[16,084](#)

[\\$623.00*](#)



[Intel Core i5-11400H @ 2.70GHz](#)



[16,032](#)

[\\$250.00*](#)



[AMD Ryzen 7 5700U](#)



[15,978](#)

[NA](#)



[AMD Ryzen 7 4850U Mobile](#)



[15,920](#)

[NA](#)



[Intel Core i7-11600H @ 2.90GHz](#)



[15,907](#)

[\\$395.00*](#)



[Intel Core i9-10885H @ 2.40GHz](#)



[15,637](#)

[\\$556.00*](#)



[AMD Ryzen 7 PRO 4750U](#)



[15,464](#)

[NA](#)



[Intel Core i7-10875H @ 2.30GHz](#)



[15,396](#)

[\\$450.00*](#)

	AMD Ryzen 5 5600U		15,353	NA	
	AMD Ryzen 5 PRO 5650U		15,219	NA	

 CPU Benchmarks

	Intel Core i7-10870H @ 2.20GHz		14,958	\$417.00*	
	AMD Ryzen 5 PRO 4400GE		14,795	NA	
	AMD Ryzen 5 5625U		14,776	NA	
	AMD Ryzen 5 4600HS		14,735	NA	
	Intel Core i9-10880H @ 2.30GHz		14,735	NA	
	AMD Ryzen 5 4600H		14,713	NA	
	Apple M1 8 Core 3200 MHz		14,575	NA	
	Intel Core i5-1235U		14,405	\$309.00*	
	AMD Ryzen 7 4700U		13,612	NA	
	AMD Ryzen 5 4600U		13,438	NA	
	AMD Ryzen 5 PRO 5675U		13,347	NA	
	Intel Core i7-1255U		13,264	\$426.00*	
	Intel Core i7-1265U		13,227	\$426.00*	
	AMD Ryzen 5 5500U		13,181	NA	
	Intel Xeon W-10855M @ 2.80GHz		12,921	\$450.00*	
	AMD Ryzen 5 PRO 4650U		12,843	NA	
	Intel Core i3-1215U		12,550	NA	
	Intel Core i7-10750H @ 2.60GHz		12,303	NA	
	Intel Core i7-11375H @ 3.30GHz		12,258	\$482.00*	
	Intel Core i3-1210U		12,130	NA	
	Intel Core i7-10850H @ 2.70GHz		12,120	\$395.00*	
	AMD Ryzen 5 PRO 4500U		12,049	NA	
	Intel Core i7-11370H @ 3.30GHz		12,005	\$426.00*	
	AMD Ryzen 3 PRO 5475U		11,971	NA	
	AMD Ryzen 3 5400U		11,871	NA	
	Intel Core i5-10500H @ 2.50GHz		11,608	\$250.00*	
	AMD Ryzen 3 PRO 5450U		11,559	NA	
	Intel Core i7-9750HF @ 2.60GHz		11,255	\$395.00*	
	Intel Core i7-1185G7E @ 2.80GHz		11,114	\$431.00*	
	AMD Ryzen 5 4500U		11,084	NA	
	Intel Core i5-11300H @ 3.10GHz		11,029	\$309.00*	
	AMD Ryzen 3 PRO 4200GE		10,930	NA	
	Intel Core i7-1185G7 @ 3.00GHz		10,873	\$426.00*	
	Intel Core i7-1195G7 @ 2.90GHz		10,861	\$426.00*	
	Intel Core i7-9700TE @ 1.80GHz		10,826	\$323.00*	
	Intel Core i5-11320H @ 3.20GHz		10,623	\$309.00*	
	Intel Core i7-11390H @ 3.40GHz		10,590	\$426.00*	
	Intel Core i7-1165G7 @ 2.80GHz		10,511	\$426.00*	
	Intel Core i5-1145G7 @ 2.60GHz		10,290	NA	
	Intel Core i5-1155G7 @ 2.50GHz		10,258	\$309.00*	
	AMD Ryzen 3 5425U		10,203	NA	
	AMD Ryzen 3 PRO 4450U		10,169	NA	
	Intel Core i5-1135G7 @ 2.40GHz		10,090	\$309.00*	
	Intel Core i7-1068NG7 @ 2.30GHz		10,066	\$426.00*	
	AMD Ryzen 3 5300U		10,031	NA	
	Intel Core i7-10710U @ 1.10GHz		10,017	\$644.99*	
	Intel Core i5-10500TE @ 2.30GHz		9,960	\$195.00*	

	Intel Core i3-1125G4 @ 2.00GHz		9,912	NA	
	Intel Core i5-1230U		9,896	\$309.00*	

 CPU Benchmarks

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	Intel Core i5-9500TE @ 2.20GHz		9,212	\$192.00*	
	Intel Core i5-1130G7 @ 1.10GHz		9,132	\$309.00*	
	Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*	
	Intel Core i5-10400H @ 2.60GHz		8,913	\$250.00*	
	Intel Core i7-1180G7 @ 1.30GHz		8,837	\$426.00*	
	Intel Core i5-10300H @ 2.50GHz		8,658	\$250.00*	
	Intel Core i7-8569U @ 2.80GHz		8,636	\$431.00*	
	Intel Core i5-1035G7 @ 1.20GHz		8,497	\$320.00*	
	Intel Core i5-10200H @ 2.40GHz		8,391	\$250.00*	
	Intel Core i5-9400H @ 2.50GHz		8,293	\$250.00*	
	Intel Core i7-8557U @ 1.70GHz		8,225	\$431.00*	
	Intel Core i5-1035G4 @ 1.10GHz		8,194	\$309.00*	
	Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*	
	Intel Core i7-10810U @ 1.10GHz		8,012	\$443.00*	
	Intel Core i5-8260U @ 1.60GHz		7,854	\$439.99*	
	Intel Core i5-8279U @ 2.40GHz		7,822	\$320.00*	
	Intel Core i5-8257U @ 1.40GHz		7,679	\$320.00*	
	AMD Ryzen 7 3780U		7,651	NA	
	Intel Core i5-1035G1 @ 1.00GHz		7,637	\$297.00*	
	Intel Core i5-9300HF @ 2.40GHz		7,618	\$250.00*	
	AMD Ryzen 3 4300U		7,571	NA	
	Intel Core i3-10100T @ 3.00GHz		7,407	\$122.00*	
	AMD Ryzen 5 3580U		7,383	NA	
	AMD Ryzen 7 3700C		7,145	NA	
	Intel Core i7-10610U @ 1.80GHz		7,020	\$409.00*	
	Intel Core i7-1060NG7 @ 1.20GHz		6,970	NA	
	Intel Core i7-10510U @ 1.80GHz		6,791	\$409.00*	
	AMD Ryzen 5 3450U		6,787	NA	
	Intel Pentium Gold 8505		6,771	NA	
	Intel Core i5-10310U @ 1.70GHz		6,557	\$297.00*	
	Intel Core i5-10210U @ 1.60GHz		6,383	\$702.62*	
	Intel Core i3-1115G4 @ 3.00GHz		6,248	\$281.00*	
	Intel Core i7-8565UC @ 1.80GHz		6,187	NA	
	Intel Core i5-1030NG7 @ 1.10GHz		6,147	NA	
	AMD Ryzen 3 3350U		5,889	NA	
	AMD Ryzen 3 3300U		5,778	NA	
	Intel Core i5-7440EQ @ 2.90GHz		5,711	\$250.00*	
	Intel Core i5-8365UE @ 1.60GHz		5,555	\$297.00*	
	Intel Pentium Gold 7505 @ 2.00GHz		5,338	NA	
	AMD Ryzen 5 3500C		5,214	NA	
	Intel Core i3-1005G1 @ 1.20GHz		5,097	\$281.00*	
	Intel Core i7-8665UE @ 1.70GHz		5,017	\$409.00*	
	Intel Core i7-10510Y @ 1.20GHz		5,016	\$403.00*	
	Intel Core i5-10210Y @ 1.00GHz		4,964	NA	
	Microsoft ARM SQ1 @ 3.0 GHz		4,868	NA	
	Intel Core i5-6442EQ @ 1.90GHz		4,598	\$250.00*	

	Intel Pentium Silver N6005 @ 2.00GHz		4,583	NA
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 CPU Benchmarks

Intel Pentium 6805 @ 1.10GHz		4,394	\$161.00*
Intel Core i5-6350HQ @ 2.30GHz		4,255	\$306.00*
Intel Core i3-8140U @ 2.10GHz		4,227	NA
Intel Core i3-8145UE @ 2.20GHz		4,087	\$281.00*
AMD Athlon Gold 3150U		4,025	NA
Intel Core i3-10110U @ 2.10GHz		3,981	\$434.17*
AMD Athlon 300U		3,970	NA
AMD Ryzen 3 3250U		3,968	NA
Intel Core i3-1000NG4 @ 1.10GHz		3,828	NA
Intel Core i5-L16G7 @ 1.40GHz		3,421	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz		3,404	NA
Intel Celeron N5100 @ 1.10GHz		3,291	NA
Intel Core i3-10110Y @ 1.00GHz		3,278	\$287.00*
AMD Ryzen Embedded R1305G		3,209	NA
AMD Athlon Silver 3050U		3,046	NA
AMD Athlon Silver 3050e		2,955	NA
AMD Ryzen 3 3250C		2,917	NA
AMD 3015e		2,720	NA
AMD A6-9400		2,717	NA
Intel Pentium Silver N5030 @ 1.10GHz		2,709	NA
Intel Celeron 7305		2,665	\$107.00*
Intel Celeron N4120 @ 1.10GHz		2,520	NA
AMD 3020e		2,474	NA
Intel Pentium 6405U @ 2.40GHz		2,370	\$161.00*
Intel Core i3-6102E @ 1.90GHz		2,349	\$225.00*
AMD Athlon Gold 3150C		2,310	NA
Intel Celeron 6305 @ 1.80GHz		2,157	NA
Intel Celeron 4305UE @ 2.00GHz		1,876	NA
Intel Pentium 4425Y @ 1.70GHz		1,717	\$161.00*
Intel Celeron N4000C @ 1.10GHz		1,611	NA
Intel Celeron N4020 @ 1.10GHz		1,568	NA
Intel Celeron N4020C @ 1.10GHz		1,508	NA
Intel Celeron 5205U @ 1.90GHz		1,414	\$107.00*
Intel Celeron 1020M @ 2.10GHz		1,275	NA
Intel Pentium A1020 @ 2.41GHz		1,265	NA
AMD R-272F APU		1,215	NA
AMD PRO A4-4350B		1,169	NA
AMD A4-9120C		869	NA

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 CPU Benchmarks

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