

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.



Home CPUS

High End
High Mid Range
Low Mid Range
Low End

Best Value (On Market)
Best Value XY Scatter
Best Value (All time)

New Desktop
New Laptop

Single Thread
Systems with Multiple CPUs
Overclocked
Power Performance
CPU Mark by Socket Type
Cross-Platform CPU Performance

CPU Mega List
Search Model

CPU Mark Price Performance Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance
Updated 21st of June 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12950HX	39,136	\$590.00*
Intel Core i9-12900H	29,343	\$617.00*
Intel Core i9-12900HK	28,459	\$635.00*
Intel Core i7-12700H	27,451	\$457.00*
AMD Ryzen 9 6900HX	24,849	NA
AMD Ryzen 9 6900HS	24,378	NA
AMD Ryzen 7 PRO 6850U	24,322	NA
Intel Core i7-12650H	24,191	\$457.00*
AMD Ryzen 7 6800HS	24,189	NA
Intel Core i9-11980HK @ 2.60GHz	23,677	\$583.00*
AMD Ryzen 7 6800H	23,483	NA
Intel Xeon W-11955M @ 2.60GHz	23,470	\$623.00*
AMD Ryzen 9 5980HX	23,262	NA
Intel Core i5-12500H	23,187	\$311.00*
AMD Ryzen 9 5900HX	23,106	NA
AMD Ryzen 7 PRO 6850HS	22,879	NA
Intel Core i7-12800H	22,799	\$457.00*
Intel Core i9-11950H @ 2.60GHz	22,548	\$556.00*
Apple M1 Max 10 Core 3200 MHz	22,450	NA
Apple M1 Pro 10 Core 3200 MHz	22,220	NA
AMD Ryzen 9 5900HS	22,200	NA
Intel Core i5-1250P	22,148	NA

Compare 0

CPU Benchmarks

Most
Benchmarked

AMD vs Intel
Market Share

Year on Year

Performance

AMD Ryzen 9 5980HS		21,491	NA
Intel Core i9-11900H @ 2.50GHz		21,203	\$546.00*
Intel Core i7-11850H @ 2.50GHz		21,178	\$395.00*
AMD Ryzen 9 5900H		20,960	NA
AMD Ryzen 7 5800HS Creator Edition		20,948	NA
AMD Ryzen 7 5800HS		20,704	NA
Intel Core i5-12600H		20,186	\$311.00*
Intel Core i7-1280P		19,888	\$482.00*
Intel Core i5-12450H		19,820	\$311.00*
Intel Core i7-1270P		19,669	NA
AMD Ryzen 9 4900HS		19,401	NA
AMD Ryzen 9 4900H		19,325	NA
AMD Ryzen 7 4800H		19,009	NA
AMD Ryzen 7 5800U		18,917	NA
AMD Ryzen 7 4800HS		18,833	NA
Intel Xeon W-11855M @ 3.20GHz		18,810	\$450.00*
AMD Ryzen 7 PRO 5875U		18,514	NA
AMD Ryzen 5 PRO 6650U		18,482	NA
AMD Ryzen 7 5825U		18,447	NA
Intel Core i3-1220P		18,329	\$281.00*
AMD Ryzen 7 Extreme Edition		18,209	NA
Intel Core i5-1240P		18,187	NA
AMD Ryzen 7 PRO 5850U		17,483	NA
Apple M1 Pro 8 Core 3200 MHz		17,393	NA
AMD Ryzen 5 5600H		17,184	NA
AMD Ryzen 7 4800U		17,068	NA
AMD Ryzen 5 5560U		16,944	NA
Intel Core i7-1260P		16,741	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		16,156	\$583.00*
Intel Xeon W-10885M @ 2.40GHz		16,068	\$623.00*
Intel Core i5-11400H @ 2.70GHz		16,041	\$250.00*
AMD Ryzen 7 5700U		16,038	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		15,647	\$556.00*
AMD Ryzen 7 PRO 4750U		15,469	NA
Intel Core i7-10875H @ 2.30GHz		15,399	\$450.00*
AMD Ryzen 5 5600U		15,388	NA
Intel Core i5-1235U		15,354	\$309.00*
Intel Xeon E-2286M @ 2.40GHz		15,246	\$1,373.18*
AMD Ryzen 5 PRO 5650U		15,237	NA
Intel Core i5-11260H @ 2.60GHz		15,074	\$250.00*
AMD Ryzen 5 5625U		15,066	NA
Intel Core i7-10870H @ 2.20GHz		14,987	\$417.00*


AMD Ryzen 5 PRO 4400GE		14,795	NA
AMD Ryzen 5 4600HS		14,735	NA
AMD Ryzen 5 4600U		13,438	NA
Intel Core i7-1255U		13,386	\$426.00*
AMD Ryzen 5 PRO 5675U		13,347	NA
AMD Ryzen 5 5500U		13,193	NA
Intel Core i3-1215U		12,988	NA
Intel Xeon W-10855M @ 2.80GHz		12,958	\$450.00*
AMD Ryzen 5 PRO 4650U		12,838	NA
Intel Core i7-1265U		12,679	\$426.00*
Intel Core i7-10750H @ 2.60GHz		12,318	NA
AMD Ryzen 3 PRO 5475U		12,266	NA
Intel Core i7-11375H @ 3.30GHz		12,258	\$482.00*
Intel Core i3-1210U		12,130	NA
Intel Core i7-10850H @ 2.70GHz		12,127	\$395.00*
AMD Ryzen 5 PRO 4500U		12,049	NA
Intel Core i7-11370H @ 3.30GHz		12,026	\$426.00*
Intel Xeon E-2276M @ 2.80GHz		11,866	\$450.00*
AMD Ryzen 3 5400U		11,851	NA
Intel Core i5-10500H @ 2.50GHz		11,606	\$250.00*
AMD Ryzen 3 PRO 5450U		11,286	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		11,088	NA
Intel Core i5-11300H @ 3.10GHz		10,995	\$309.00*
AMD Ryzen 3 PRO 4200GE		10,930	NA
Intel Core i7-1185G7 @ 3.00GHz		10,877	\$426.00*
Intel Core i7-1195G7 @ 2.90GHz		10,865	\$426.00*
Intel Core i7-9700TE @ 1.80GHz		10,826	\$323.00*
Intel Core i7-11390H @ 3.40GHz		10,721	\$426.00*
Intel Core i5-11320H @ 3.20GHz		10,697	\$309.00*
Intel Core i7-1165G7 @ 2.80GHz		10,537	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz		10,386	NA
Intel Core i5-1155G7 @ 2.50GHz		10,246	\$309.00*
AMD Ryzen 3 PRO 4450U		10,158	NA
Intel Core i5-1135G7 @ 2.40GHz		10,095	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz		10,093	\$426.00*
Intel Core i7-10710U @ 1.10GHz		10,046	\$644.99*
AMD Ryzen 3 5300U		10,037	NA
AMD Ryzen 3 5425U		9,989	NA
Intel Core i5-10500TE @ 2.30GHz		9,960	\$195.00*
Intel Core i3-1125G4 @ 2.00GHz		9,912	NA
Intel Core i5-1038NG7 @ 2.00GHz		9,637	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz		9,531	\$426.00*
Intel Core i5-1130G7 @ 1.10GHz		9,247	\$309.00*
Intel Core i5-9500TE @ 2.20GHz		9,212	\$192.00*

CPU Benchmarks

Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
Intel Core i7-1180G7 @ 1.30GHz		9,066	\$426.00*

🏠 CPU Benchmarks ▼

Intel Core i5-1230U		8,591	\$309.00*
Intel Core i7-8569U @ 2.80GHz		8,564	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz		8,518	\$320.00*
Intel Core i5-10200H @ 2.40GHz		8,408	\$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		8,223	\$309.00*
Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*
Intel Core i7-10810U @ 1.10GHz		8,039	\$443.00*
Intel Core i5-8279U @ 2.40GHz		7,946	\$320.00*
Intel Core i5-8260U @ 1.60GHz		7,854	\$439.99*
Intel Core i5-1035G1 @ 1.00GHz		7,670	\$297.00*
Intel Core i5-8257U @ 1.40GHz		7,666	\$320.00*
AMD Ryzen 7 3780U		7,651	NA
Intel Core i5-9300HF @ 2.40GHz		7,629	\$250.00*
AMD Ryzen 3 4300U		7,571	NA
AMD Ryzen 5 3580U		7,520	NA
Intel Core i3-10100T @ 3.00GHz		7,407	\$122.00*
AMD Ryzen 7 3700C		7,145	NA
AMD Ryzen 3 PRO 3200GE		7,071	NA
Intel Core i7-1060NG7 @ 1.20GHz		7,057	NA
Intel Core i7-10610U @ 1.80GHz		7,023	\$409.00*
AMD Ryzen 5 PRO 3500U		6,980	NA
AMD Ryzen 5 3450U		6,822	NA
Intel Core i7-10510U @ 1.80GHz		6,797	\$409.00*
Intel Pentium Gold 8505		6,771	NA
Intel Core i5-10310U @ 1.70GHz		6,565	\$297.00*
Intel Core i5-10210U @ 1.60GHz		6,383	\$702.62*
Intel Core i3-1115G4 @ 3.00GHz		6,256	\$281.00*
Intel Core i7-8565UC @ 1.80GHz		6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz		6,132	NA
AMD Ryzen 3 3350U		5,881	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		5,342	NA
AMD Ryzen 5 3500C		5,214	NA
Intel Core i3-1005G1 @ 1.20GHz		5,114	\$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		4,764	NA
Intel Pentium Silver N6005 @ 2.00GHz		4,616	NA
Intel Core i5-6442EQ @ 1.90GHz		4,598	\$250.00*
AMD Athlon Silver 3050GE		4,545	NA
Intel Core i3-9100TE @ 2.20GHz		4,501	\$122.00*

Intel Pentium 6805 @ 1.10GHz		4,394	\$161.00*
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Intel Core i3-8145UE @ 2.20GHz		4,087	\$281.00*
AMD Athlon Gold 3150U		4,023	NA
Intel Core i3-10110U @ 2.10GHz		3,984	\$434.17*
AMD Athlon 300U		3,974	NA
AMD Ryzen 3 3250U		3,968	NA
AMD Ryzen Embedded R1505G		3,966	NA
Intel Core i3-1000NG4 @ 1.10GHz		3,821	NA
Intel Core i5-L16G7 @ 1.40GHz		3,421	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz		3,404	NA
Intel Core i3-10110Y @ 1.00GHz		3,278	\$287.00*
Intel Celeron N5100 @ 1.10GHz		3,251	NA
AMD Ryzen Embedded R1305G		3,209	NA
AMD Athlon Silver 3050U		3,054	NA
AMD Athlon Silver 3050e		2,966	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		2,717	NA
Intel Celeron 7305		2,665	\$107.00*
Intel Celeron N4120 @ 1.10GHz		2,515	NA
AMD 3020e		2,476	NA
Intel Pentium 6405U @ 2.40GHz		2,364	\$161.00*
Intel Core i3-6102E @ 1.90GHz		2,349	\$225.00*
Intel Celeron 6305 @ 1.80GHz		2,167	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		1,574	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		1,153	NA
AMD A4-9120C		867	NA

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