

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.


 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 8th of September 2022

CPU	CPU Mark	Price (USD)
Intel Core i7-12800HX	36,181	\$457.00*
Intel Core i9-12900HX	35,654	\$606.00*
Intel Core i9-12950HX	34,198	\$590.00*
Intel Core i7-12850HX	31,076	\$428.00*
Intel Core i9-12900HK	29,694	\$635.00*
Intel Core i9-12900H	29,084	\$617.00*
Intel Core i7-12700H	26,970	\$457.00*
AMD Ryzen 9 6900HX	25,025	NA
Intel Core i7-12650H	24,748	\$457.00*
Intel Core i5-12600HX	24,689	\$284.00*
AMD Ryzen 9 PRO 6950H	24,464	NA
Intel Core i7-12800H	24,382	\$457.00*
AMD Ryzen 7 PRO 6850H	24,325	NA
AMD Ryzen 9 6900HS	24,256	NA
AMD Ryzen 9 PRO 6950HS	23,843	NA
Intel Core i9-11980HK @ 2.60GHz	23,453	\$583.00*
AMD Ryzen 7 6800HS Creator Edition	23,449	NA
AMD Ryzen 7 6800H	23,409	NA
Intel Xeon W-11955M @ 2.60GHz	23,346	\$623.00*
AMD Ryzen 7 6800HS	23,257	NA
AMD Ryzen 9 5900HX	23,022	NA
AMD Ryzen 9 5980HX	22,948	NA

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Compare



CPU Benchmarks



most

Benchmarked



AMD vs Intel
Market Share

Year on Year
Performance

Intel Core i9-11950H @ 2.60GHz	22,390	\$556.00*
Apple M1 Max 10 Core 3200 MHz	22,292	NA
AMD Ryzen 9 5900H	22,100	NA
Apple M1 Pro 10 Core 3200 MHz	22,069	NA
Intel Core i5-12500H	21,595	\$311.00*
AMD Ryzen 9 5980HS	21,491	NA
AMD Ryzen 7 5800H	21,365	NA
AMD Ryzen 9 6900HS Creator Edition	21,195	NA
AMD Ryzen 7 PRO 6850U	21,169	NA
Intel Core i7-11800H @ 2.30GHz	21,167	\$395.00*
Intel Core i7-11850H @ 2.50GHz	21,147	\$395.00*
Intel Core i9-11900H @ 2.50GHz	21,077	\$546.00*
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 5800HS Creator Edition	20,948	NA
AMD Ryzen 7 6800U	20,902	NA
Intel Core i7-12700TE	20,712	\$344.00*
AMD Ryzen 7 5800HS	20,695	NA
AMD Ryzen 5 PRO 6650H	20,103	NA
AMD Ryzen 7 PRO 6850HS	20,062	NA
Intel Core i7-1280P	19,800	\$482.00*
AMD Ryzen 5 6600H	19,760	NA
AMD Ryzen 9 4900HS	19,350	NA
AMD Ryzen 9 4900H	19,291	NA
AMD Ryzen 7 4800H	18,960	NA
Intel Core i5-1250P	18,947	NA
AMD Ryzen 7 5800U	18,828	NA
AMD Ryzen 7 4800HS	18,813	NA
Intel Core i7-1270P	18,595	NA
Intel Xeon W-11855M @ 3.20GHz	18,431	\$450.00*
Intel Core i5-12450H	18,375	\$311.00*
AMD Ryzen 7 5825U	18,265	NA
AMD Ryzen 7 Extreme Edition	18,192	NA
Intel Core i3-1220P	18,058	\$281.00*
AMD Ryzen 7 PRO 5850U	17,352	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,335	NA
Intel Core i5-1240P	17,335	NA
Apple M1 Pro 8 Core 3200 MHz	17,308	NA
Intel Core i7-1260P	17,274	NA
AMD Ryzen 5 6600U	17,257	NA
AMD Ryzen 5 PRO 6650U	17,144	NA
AMD Ryzen 5 5600H	17,112	NA
AMD Ryzen 5 5560U	17,084	NA
AMD Ryzen 7 4800U	17,009	NA
Intel Core i5-12500TE	16,865	\$205.00*
Intel Core i7-10700E @ 2.90GHz	16,418	\$330.00*
AMD Ryzen 7 PRO 5875U	16,397	NA
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i5-11500H @ 2.90GHz	16,133	\$250.00*
Intel Core i9-10980HK @ 2.40GHz	16,091	\$583.00*

Intel Core i9-10980H @ 2.40GHz	16,991	\$600.00
Intel Xeon W-10885M @ 2.40GHz	16,050	\$623.00*

CPU Benchmarks ▼

Intel Core i7-11600H @ 2.90GHz	15,907	\$395.00*
AMD Ryzen 7 5700U	15,906	NA
Intel Core i9-10885H @ 2.40GHz	15,559	\$556.00*
Apple M2 8 Core 3500 MHz	15,501	NA
Intel Core i5-11260H @ 2.60GHz	15,491	\$250.00*
AMD Ryzen 7 PRO 4750U	15,404	NA
Intel Core i7-10875H @ 2.30GHz	15,368	\$450.00*
AMD Ryzen 5 5600U	15,355	NA
AMD Ryzen 5 PRO 5650U	15,166	NA
Intel Core i7-10870H @ 2.20GHz	14,873	\$417.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600HS	14,741	NA
Intel Core i9-10880H @ 2.30GHz	14,735	NA
AMD Ryzen 5 4600H	14,686	NA
Apple M1 8 Core 3200 MHz	14,494	NA
AMD Ryzen 5 5625U	14,343	NA
AMD Ryzen 5 PRO 5675U	14,231	NA
Intel Core i5-1235U	13,632	\$309.00*
AMD Ryzen 7 4700U	13,583	NA
AMD Ryzen 5 4600U	13,445	NA
Intel Core i7-1255U	13,427	\$426.00*
Intel Core i7-1265U	13,202	\$426.00*
AMD Ryzen 5 5500U	13,167	NA
Intel Core i3-12100TE	12,961	\$125.00*
Intel Xeon W-10855M @ 2.80GHz	12,906	\$450.00*
AMD Ryzen 5 PRO 4650U	12,836	NA
Intel Core i7-1260U	12,701	NA
Intel Core i7-11375H @ 3.30GHz	12,343	\$482.00*
Intel Core i7-10750H @ 2.60GHz	12,245	NA
Intel Core i7-10850H @ 2.70GHz	12,131	\$395.00*
Intel Core i3-1210U	12,130	NA
AMD Ryzen 3 PRO 5475U	12,074	NA
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-11370H @ 3.30GHz	11,952	\$426.00*
AMD Ryzen 3 5400U	11,828	NA
Intel Core i3-1215U	11,618	NA
Intel Core i5-10500H @ 2.50GHz	11,610	\$250.00*
AMD Ryzen 3 PRO 5450U	11,563	NA
Intel Core i7-9750HF @ 2.60GHz	11,159	\$395.00*
Intel Core i5-11300H @ 3.10GHz	11,061	\$309.00*
AMD Ryzen 5 4500U	11,059	NA
Intel Core i7-1195G7 @ 2.90GHz	10,973	\$426.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-1185G7 @ 3.00GHz	10,790	\$426.00*
Intel Core i7-9700TE @ 1.80GHz	10,740	\$323.00*
Intel Core i5-11320H @ 3.20GHz	10,637	\$309.00*

CPU Benchmarks ▼

Intel Core i7-11390H @ 3.40GHz	10,625	\$426.00*
Intel Core i5-1230U	10,526	\$309.00*
AMD Ryzen 3 4300U	10,520	NA
Intel Core i5-1145G7 @ 2.60GHz	10,217	NA
Intel Core i5-1155G7 @ 2.50GHz	10,119	\$309.00*
AMD Ryzen 3 PRO 4450U	10,110	NA
Intel Core i5-1135G7 @ 2.40GHz	10,065	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,050	\$426.00*
Intel Core i7-1185G7E @ 2.80GHz	9,980	\$431.00*
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
Intel Core i3-1125G4 @ 2.00GHz	9,960	NA
Intel Core i7-10710U @ 1.10GHz	9,958	\$644.99*
AMD Ryzen 3 5300U	9,941	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,597	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz	9,229	\$426.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i7-1250U	9,091	\$426.00*
Intel Core i5-1130G7 @ 1.10GHz	8,927	\$309.00*
Intel Core i5-10400H @ 2.60GHz	8,841	\$250.00*
Intel Core i5-10300H @ 2.50GHz	8,648	\$250.00*
Intel Core i7-1180G7 @ 1.30GHz	8,514	\$426.00*
Intel Core i5-1035G7 @ 1.20GHz	8,506	\$320.00*
Intel Core i7-8569U @ 2.80GHz	8,470	\$431.00*
Intel Core i5-10200H @ 2.40GHz	8,363	\$250.00*
Intel Core i7-8557U @ 1.70GHz	8,225	\$431.00*
Intel Core i5-1035G4 @ 1.10GHz	8,130	\$309.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i7-10810U @ 1.10GHz	7,984	\$443.00*
Intel Core i5-8260U @ 1.60GHz	7,854	\$439.99*
Intel Core i5-8279U @ 2.40GHz	7,753	\$320.00*
Intel Core i5-8257U @ 1.40GHz	7,666	\$320.00*
AMD Ryzen 7 3780U	7,651	NA
Intel Core i5-1035G1 @ 1.00GHz	7,594	\$297.00*
Intel Core i5-9300HF @ 2.40GHz	7,579	\$250.00*
AMD Ryzen 3 4300U	7,563	NA
AMD Ryzen 5 3580U	7,383	NA
Intel Core i3-10100T @ 3.00GHz	7,376	\$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	7,036	\$409.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,985	NA
AMD Ryzen 5 3450U	6,783	NA
Intel Core i7-10510U @ 1.80GHz	6,778	\$409.00*
Intel Pentium Gold 8505	6,771	NA
Intel Core i5-10310U @ 1.70GHz	6,546	\$297.00*
Intel Core i5-10210U @ 1.60GHz	6,361	\$702.62*
Intel Core i3-1115G4 @ 3.00GHz	6,234	\$281.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA

AMD PRO A4-4350B

1,106

NA

Intel Pentium Dual T2390 @
4.00GHz

745

NA

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