

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	CPU Mark	Price Performance	Sorted by Date
 High End High Mid Range Low Mid Range Low End	PassMark - CPU Mark Laptop & Portable CPU Performance Updated 22nd of March 2022		
 Best Value (On Market) Best Value XY Scatter Best Value (All time)	CPU	CPU Mark	Price (USD)
 New Desktop New Laptop	Intel Core i9-12900H	30,094	\$617.00*
	Intel Core i9-12900HK	27,732	\$635.00*
	Intel Core i7-12700H	27,569	\$457.00*
	AMD Ryzen 9 6900HS	24,820	NA
	Intel Xeon W-11955M @ 2.60GHz	24,218	\$623.00*
	Apple M1 Pro 10 Core 3200 MHz	23,553	NA
	Intel Core i9-11980HK @ 2.60GHz	23,511	\$583.00*
	Apple M1 Max 10 Core 3200 MHz	23,468	NA
	AMD Ryzen 9 5980HX	23,402	NA
	AMD Ryzen 9 5900HX	23,222	NA
 Single Thread Systems with Multiple CPUs Overclocked Power Performance CPU Mark by Socket Type Cross-Platform CPU Performance	Intel Core i5-1250P	23,120	NA
	Intel Core i7-1270P	22,842	NA
	Intel Core i9-11950H @ 2.60GHz	22,733	\$556.00*
	Intel Core i5-12500H	22,629	\$311.00*
	AMD Ryzen 7 6800H	22,593	NA
	AMD Ryzen 9 5900HS	22,265	NA
	Intel Core i9-11900H @ 2.50GHz	21,765	\$546.00*
	Intel Core i5-1240P	21,646	NA
	AMD Ryzen 7 5800H	21,497	NA
	Intel Core i7-11800H @ 2.30GHz	21,492	\$395.00*
 CPU Mega List Search Model	AMD Ryzen 9 5980HS	21,412	NA
	Intel Core i7-11850H @ 2.50GHz	21,283	\$395.00*

 Compare ⁰

 CPU Benchmarks

Most
Benchmarked

 AMD vs Intel
Market Share

Year on Year

Performance

AMD Ryzen 7 5800HS Creator Edition	21,026	NA
Intel Core i5-12450H	19,820	\$311.00*
AMD Ryzen 9 4900HS	19,465	NA
AMD Ryzen 9 4900H	19,305	NA
Intel Xeon W-11855M @ 3.20GHz	19,126	\$450.00*
AMD Ryzen 7 4800H	19,066	NA
AMD Ryzen 7 5800U	18,883	NA
AMD Ryzen 7 4800HS	18,882	NA
AMD Ryzen 7 Extreme Edition	18,209	NA
Apple M1 Pro 8 Core 3200 MHz	18,190	NA
AMD Ryzen 7 PRO 5850U	17,838	NA
AMD Ryzen 5 5600H	17,196	NA
AMD Ryzen 7 4800U	17,131	NA
Intel Core i7-10700E @ 2.90GHz	17,020	\$330.00*
Intel Core i5-11500H @ 2.90GHz	16,396	\$250.00*
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i9-10980HK @ 2.40GHz	16,284	\$583.00*
AMD Ryzen 7 5700U	16,229	NA
Intel Core i5-11400H @ 2.70GHz	16,104	\$250.00*
Intel Core i7-11600H @ 2.90GHz	16,030	\$395.00*
Intel Xeon W-10885M @ 2.40GHz	16,013	\$623.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i9-10885H @ 2.40GHz	15,733	\$556.00*
Intel Xeon E-2286M @ 2.40GHz	15,593	\$1,373.18*
AMD Ryzen 5 5625U	15,591	NA
AMD Ryzen 7 PRO 4750U	15,529	NA
Intel Core i7-10875H @ 2.30GHz	15,483	\$450.00*
AMD Ryzen 5 PRO 5650U	15,407	NA
AMD Ryzen 5 5600U	15,369	NA
Apple M1 8 Core 3200 MHz	15,109	NA
Intel Core i7-10870H @ 2.20GHz	15,082	\$417.00*
Intel Core i5-11260H @ 2.60GHz	15,068	\$250.00*
Intel Core i9-10880H @ 2.30GHz	15,064	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600H	14,758	NA
Intel Core i9-9980HK @ 2.40GHz	14,757	\$583.00*
AMD Ryzen 5 4600HS	14,735	NA
Intel Core i9-9880H @ 2.30GHz	14,007	\$556.00*
AMD Ryzen 7 4700U	13,664	NA
AMD Ryzen 5 4600U	13,603	NA
AMD Ryzen 5 5500U	13,181	NA
Intel Xeon W-10855M @ 2.80GHz	13,121	\$450.00*
AMD Ryzen 5 PRO 4650U	12,980	NA
Intel Core i7-10750H @ 2.60GHz	12,387	NA
Intel Core i7-11375H @ 3.30GHz	12,349	\$482.00*
AMD Ryzen 3 5425U	12,269	NA
Intel Core i7-1260P	12,224	NA

Intel Core i7-11370H @ 3.30GHz	12,201	\$426.00*
Intel Core i7-10850H @ 2.70GHz	12,148	\$395.00*
Intel Core i7-10750H @ 2.60GHz	11,991	\$399.00*
AMD Ryzen 3 PRO 5450U	11,885	NA
AMD Ryzen 3 5400U	11,867	NA
Intel Core i5-10500H @ 2.50GHz	11,587	\$250.00*
Intel Core i7-9850H @ 2.60GHz	11,522	\$1,305.76*
Intel Core i7-9750HF @ 2.60GHz	11,473	\$395.00*
Intel Core i7-9750H @ 2.60GHz	11,209	\$960.00*
AMD Ryzen 5 4500U	11,126	NA
Intel Core i5-1235U	11,119	\$309.00*
Intel Core i7-1185G7E @ 2.80GHz	11,114	\$431.00*
Intel Core i5-11300H @ 3.10GHz	11,112	\$309.00*
Intel Core i7-1195G7 @ 2.90GHz	11,076	\$426.00*
Intel Core i7-1185G7 @ 3.00GHz	11,069	\$426.00*
Intel Core i7-11390H @ 3.40GHz	10,985	\$426.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-9700TE @ 1.80GHz	10,826	\$323.00*
Intel Core i5-11320H @ 3.20GHz	10,694	\$309.00*
Intel Core i7-1265U	10,671	\$426.00*
Intel Core i7-1165G7 @ 2.80GHz	10,613	\$426.00*
Intel Core i5-1155G7 @ 2.50GHz	10,473	\$309.00*
Intel Core i5-1145G7 @ 2.60GHz	10,420	NA
Intel Core i7-1160G7 @ 1.20GHz	10,316	\$426.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,241	\$426.00*
Intel Core i5-1135G7 @ 2.40GHz	10,140	\$309.00*
AMD Ryzen 3 PRO 4450U	10,139	NA
AMD Ryzen 3 5300U	10,134	NA
Intel Core i7-10710U @ 1.10GHz	10,120	\$644.99*
Intel Core i3-1125G4 @ 2.00GHz	9,945	NA
Intel Core i5-1130G7 @ 1.10GHz	9,913	\$309.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,728	\$320.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i5-10400H @ 2.60GHz	9,022	\$250.00*
Intel Core i7-1065G7 @ 1.30GHz	8,718	\$426.00*
Intel Core i5-10300H @ 2.50GHz	8,708	\$250.00*
Intel Core i5-10200H @ 2.40GHz	8,513	\$250.00*
Intel Core i7-8569U @ 2.80GHz	8,494	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz	8,403	\$320.00*
Intel Core i7-10810U @ 1.10GHz	8,353	\$443.00*
Intel Core i5-9400H @ 2.50GHz	8,303	\$250.00*
AMD Ryzen 7 3750H	8,272	NA
Intel Core i5-1035G4 @ 1.10GHz	8,242	\$309.00*
Intel Core i7-8557U @ 1.70GHz	8,225	\$431.00*
Intel Core i5-8279U @ 2.40GHz	8,128	\$320.00*
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i5-8260U @ 1.60GHz	7,854	\$439.99*
AMD Ryzen 5 3580U	7,820	NA

Intel Core i5-9300H @ 2.40GHz	7,813	\$250.00*
Intel Core i5-1035G1 @ 1.00GHz	7,760	\$297.00*
Intel Core i5-10210U @ 1.60GHz	7,755	\$297.00*
AMD Ryzen 3 4300U	7,594	NA
AMD Ryzen 7 3780U	7,549	NA
Intel Core i7-7820EQ @ 3.00GHz	7,453	\$378.00*
Intel Core i3-10100T @ 3.00GHz	7,416	\$122.00*
AMD Ryzen 7 PRO 3700U	7,324	NA
AMD Ryzen 7 3700U	7,319	NA
Intel Core i7-1060NG7 @ 1.20GHz	7,211	NA
AMD Ryzen 5 3500U	7,105	NA
AMD Ryzen 3 PRO 3200GE	7,071	NA
Intel Core i7-10610U @ 1.80GHz	7,023	\$409.00*
AMD Ryzen 5 PRO 3500U	6,916	NA
Intel Core i7-10510U @ 1.80GHz	6,859	\$409.00*
AMD Ryzen 5 3450U	6,789	NA
Intel Pentium Gold 8505	6,771	NA
Intel Core i5-10310U @ 1.70GHz	6,652	\$297.00*
Intel Core i7-1180G7 @ 1.30GHz	6,607	\$426.00*
Intel Core i7-8665U @ 1.90GHz	6,442	\$704.49*
Intel Core i5-10210U @ 1.60GHz	6,432	\$702.62*
Intel Core i3-1115G4 @ 3.00GHz	6,312	\$281.00*
Intel Core i5-8365U @ 1.60GHz	6,282	\$539.07*
Intel Core i5-1030NG7 @ 1.10GHz	6,252	NA
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
AMD Ryzen 3 PRO 3300U	6,144	NA
AMD Ryzen 3 3350U	5,996	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 3300U	5,867	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	5,368	NA
Intel Core i7-10510Y @ 1.20GHz	5,289	\$403.00*
Intel Core i3-1005G1 @ 1.20GHz	5,148	\$281.00*
AMD Ryzen 5 3500C	4,905	NA
Intel Core i5-10210Y @ 1.00GHz	4,836	NA
Intel Pentium 6805 @ 1.10GHz	4,735	\$161.00*
Intel Core i7-8665UE @ 1.70GHz	4,693	\$409.00*
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 Silver N6005 @ 2.00GHz	4,480	NA
Intel Core i3-8140U @ 2.10GHz	4,472	NA
Microsoft ARM SQ1 @ 3.0 GHz	4,371	NA
Intel Core i5-6350HQ @ 2.30GHz	4,255	\$306.00*
Intel Core i3-8145UE @ 2.20GHz	4,133	\$281.00*
AMD Athlon Gold 3150U	4,055	NA
Intel Core i3-10110U @ 2.10GHz	4,011	\$434.17*
Intel Core i3-1000NG4 @ 1.10GHz	4,009	NA