

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 30th of June 2022		
 Best Value (On Market) Best Value XY Scatter Best Value (All time)	CPU	CPU Mark	Price (USD)
 New Desktop New Laptop	Intel Core i9-12950HX	39,136	\$590.00*
	Intel Core i7-12800HX	37,866	\$457.00*
	Intel Core i9-12900HX	31,055	\$606.00*
	Intel Core i9-12900H	29,355	\$617.00*
	Intel Core i9-12900HK	28,501	\$635.00*
	Intel Core i7-12700H	27,425	\$457.00*
	AMD Ryzen 9 6900HX	24,984	NA
	Intel Core i5-12600HX	24,689	\$284.00*
	Intel Core i7-12650H	24,474	\$457.00*
	AMD Ryzen 9 6900HS	24,432	NA
 Single Thread Systems with Multiple CPUs Overclocked Power Performance CPU Mark by Socket Type Cross-Platform CPU Performance	AMD Ryzen 7 PRO 6850U	24,322	NA
	AMD Ryzen 7 6800HS	24,128	NA
	Intel Core i9-11980HK @ 2.60GHz	23,695	\$583.00*
	Intel Xeon W-11955M @ 2.60GHz	23,470	\$623.00*
	AMD Ryzen 9 PRO 6950HS	23,392	NA
	AMD Ryzen 7 6800H	23,284	NA
	AMD Ryzen 9 5980HX	23,262	NA
	AMD Ryzen 9 5900HX	23,100	NA
	Intel Core i7-12800H	23,041	\$457.00*
	Intel Core i5-12500H	22,726	\$311.00*
 CPU Mega List Search Model	Intel Core i9-11950H @ 2.60GHz	22,498	\$556.00*
	Apple M1 Max 10 Core 3200 MHz	22,421	NA

 CPU Benchmarks 

AMD vs Intel Market Share

Performance



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Intel Core i5-11260H @ 2.60GHz	15,074	\$250.00*
Intel Core i5-1235U	15,048	\$309.00*
AMD Ryzen 5 5625U	14,968	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600HS	14,735	NA
Intel Core i9-10880H @ 2.30GHz	14,735	NA
AMD Ryzen 5 4600H	14,716	NA
Apple M1 8 Core 3200 MHz	14,606	NA
AMD Ryzen 7 4700U	13,618	NA
AMD Ryzen 5 4600U	13,438	NA
AMD Ryzen 5 PRO 5675U	13,347	NA
AMD Ryzen 5 5500U	13,191	NA
Intel Core i3-1215U	12,988	NA
Intel Core i7-1265U	12,945	\$426.00*
Intel Xeon W-10855M @ 2.80GHz	12,921	\$450.00*
Intel Core i7-1255U	12,873	\$426.00*
AMD Ryzen 5 PRO 4650U	12,843	NA
Intel Core i7-10750H @ 2.60GHz	12,310	NA
AMD Ryzen 3 PRO 5475U	12,266	NA
Intel Core i7-11375H @ 3.30GHz	12,258	\$482.00*
Intel Core i7-10850H @ 2.70GHz	12,134	\$395.00*
Intel Core i3-1210U	12,130	NA
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-11370H @ 3.30GHz	12,018	\$426.00*
AMD Ryzen 3 5400U	11,871	NA
Intel Xeon E-2276M @ 2.80GHz	11,864	\$450.00*
Intel Core i5-10500H @ 2.50GHz	11,603	\$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	11,086	NA
Intel Core i5-11300H @ 3.10GHz	11,007	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-1185G7 @ 3.00GHz	10,875	\$426.00*
Intel Core i7-1195G7 @ 2.90GHz	10,831	\$426.00*
Intel Core i7-9700TE @ 1.80GHz	10,826	\$323.00*
Intel Core i5-11320H @ 3.20GHz	10,652	\$309.00*
Intel Core i7-11390H @ 3.40GHz	10,635	\$426.00*
Intel Core i7-1165G7 @ 2.80GHz	10,532	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,355	NA
Intel Core i5-1155G7 @ 2.50GHz	10,270	\$309.00*
AMD Ryzen 3 5425U	10,203	NA
AMD Ryzen 3 PRO 4450U	10,158	NA
Intel Core i5-1135G7 @ 2.40GHz	10,095	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,066	\$426.00*
Intel Core i7-10710U @ 1.10GHz	10,037	\$644.99*
AMD Ryzen 3 5300U	10,034	NA
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
Intel Core i3-1125G4 @ 2.00GHz	9,910	NA

Intel Core i5-1230U	9,896	\$309.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,639	\$320.00*
Intel Core i5-1130G7 @ 1.10GHz	9,132	\$309.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i7-1180G7 @ 1.30GHz	9,066	\$426.00*
Intel Core i5-10400H @ 2.60GHz	8,913	\$250.00*
Intel Core i5-10300H @ 2.50GHz	8,656	\$250.00*
Intel Core i7-8569U @ 2.80GHz	8,564	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz	8,475	\$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	8,213	\$309.00*
Intel Core i7-10810U @ 1.10GHz	8,058	\$443.00*
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i5-8279U @ 2.40GHz	7,926	\$320.00*
Intel Core i5-8260U @ 1.60GHz	7,854	\$439.99*
Intel Core i5-8257U @ 1.40GHz	7,677	\$320.00*
Intel Core i5-1035G1 @ 1.00GHz	7,653	\$297.00*
AMD Ryzen 7 3780U	7,651	NA
Intel Core i5-9300HF @ 2.40GHz	7,634	\$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
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	6,994	NA
Intel Core i7-10510U @ 1.80GHz	6,797	\$409.00*
AMD Ryzen 5 3450U	6,783	NA
Intel Pentium Gold 8505	6,771	NA
Intel Core i5-10310U @ 1.70GHz	6,546	\$297.00*
Intel Core i5-10210U @ 1.60GHz	6,384	\$702.62*
Intel Core i3-1115G4 @ 3.00GHz	6,251	\$281.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz	6,132	NA
AMD Ryzen 3 3350U	5,883	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	5,098	\$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	4,611	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	\$122.00*
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	4,023	NA
Intel Core i3-10110U @ 2.10GHz	3,979	\$434.17*
AMD Athlon 300U	3,970	NA
AMD Ryzen 3 3250U	3,969	NA
AMD Ryzen Embedded R1505G	3,966	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,832	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	3,042	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	2,712	NA
Intel Celeron 7305	2,665	\$107.00*
Intel Celeron N4120 @ 1.10GHz	2,522	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	2,157	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	1,571	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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