

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 Mark	Price Performance	Sorted by Date
PassMark - CPU Mark Laptop & Portable CPU Performance Updated 11th of July 2022		
CPU	CPU Mark	Price (USD)
Intel Core i9-12950HX	39,136	\$590.00*
Intel Core i9-12900HX	37,866	\$457.00*
Intel Core i7-12800HX	31,048	\$606.00*
Intel Core i7-12850HX	30,550	\$428.00*
Intel Core i9-12900H	29,423	\$617.00*
Intel Core i9-12900HK	28,771	\$635.00*
Intel Core i7-12700H	27,327	\$457.00*
Intel Core i5-12600HX	24,689	\$284.00*
AMD Ryzen 9 6900HX	24,659	NA
Intel Core i7-12650H	24,600	\$457.00*
AMD Ryzen 9 6800HS	24,450	NA
AMD Ryzen 7 6800HS	24,101	NA
AMD Ryzen 7 PRO 6850U	23,955	NA
Intel Core i9-11980HK @ 2.60GHz	23,630	\$583.00*
Intel Core i7-12800H	23,560	\$457.00*
Intel Xeon W-11955M @ 2.60GHz	23,420	\$623.00*
AMD Ryzen 7 6800H	23,405	NA
AMD Ryzen 9 PRO 6950HS	23,392	NA
AMD Ryzen 9 5980HX	23,262	NA
AMD Ryzen 9 5900HX	23,106	NA
Intel Core i5-12500H	22,765	\$311.00*
Intel Core i9-11950H @ 2.60GHz	22,397	\$556.00*
Apple M1 Max 10 Core 3200 MHz	22,397	NA
AMD Ryzen 9 5900HS	22,178	NA
Apple M1 Pro 10 Core 3200 MHz	22,174	NA
Intel Core i5-1250P	22,148	NA
AMD Ryzen 9 5980HS	21,491	NA
AMD Ryzen 7 5800H	21,382	NA
Intel Core i7-11800H @ 2.30GHz	21,239	\$395.00*
Intel Core i7-11850H @ 2.50GHz	21,156	\$395.00*
Intel Core i9-11900H @ 2.50GHz	21,163	\$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	19,373	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	19,002	NA
AMD Ryzen 7 5800U	18,907	NA
AMD Ryzen 7 4800HS	18,840	NA
Intel Xeon W-11855M @ 3.20GHz	18,810	\$450.00*
AMD Ryzen 5 PRO 6650U	18,482	NA
AMD Ryzen 7 5825U	18,424	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 7 PRO 5850U	17,473	NA
Apple M1 Pro 8 Core 3200 MHz	17,376	NA
AMD Ryzen 5 5600H	17,195	NA
AMD Ryzen 5 5600U	17,084	NA
Intel Core i7-1260P	17,046	NA
AMD Ryzen 7 4800U	16,992	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-10855M @ 2.40GHz	16,084	\$623.00*
Intel Core i5-11400H @ 2.70GHz	16,020	\$250.00*
AMD Ryzen 7 5700U	15,600	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	15,632	\$556.00*
AMD Ryzen 7 PRO 4750U	15,464	NA
Intel Core i7-10875H @ 2.30GHz	15,394	\$450.00*
AMD Ryzen 5 5600U	15,355	NA
AMD Ryzen 5 PRO 5650U	15,219	NA
Intel Core i5-11260H @ 2.60GHz	15,074	\$250.00*
Intel Core i7-10870H @ 2.20GHz	14,965	\$417.00*
Intel Core i5-1235U	14,808	\$309.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 5625U	14,751	NA
AMD Ryzen 5 4600HS	14,735	NA
Intel Core i9-10880H @ 2.30GHz	14,735	NA
AMD Ryzen 5 4600H	14,714	NA
Apple M1 8 Core 3200 MHz	14,581	NA
AMD Ryzen 7 4700U	13,611	NA
AMD Ryzen 5 4800U	13,438	NA
AMD Ryzen 5 PRO 5675U	13,347	NA
Intel Core i7-1255U	13,270	\$426.00*
Intel Core i7-1265U	13,227	\$426.00*
AMD Ryzen 5 5500U	13,185	NA
Intel Xeon W-10855M @ 2.80GHz	12,921	\$450.00*
AMD Ryzen 5 PRO 4650U	12,843	NA
Intel Core i3-1215U	12,756	NA
Intel Core i7-10750H @ 2.60GHz	12,306	NA
Intel Core i7-11375H @ 3.30GHz	12,258	\$482.00*
Intel Core i3-1210U	12,130	NA
Intel Core i7-10850H @ 2.70GHz	12,125	\$395.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-11370H @ 3.30GHz	12,009	\$426.00*
AMD Ryzen 3 PRO 5475U	11,971	NA
AMD Ryzen 3 5400U	11,871	NA
Intel Core i5-10500H @ 2.50GHz	11,603	\$250.00*
AMD Ryzen 3 PRO 5450U	11,425	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	11,022	\$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	10,843	\$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	10,576	\$426.00*
Intel Core i7-1185G7 @ 2.80GHz	10,512	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,310	NA
Intel Core i5-1155G7 @ 2.50GHz	10,288	\$309.00*
AMD Ryzen 3 5425U	10,203	NA
AMD Ryzen 3 PRO 4450U	10,169	NA
Intel Core i5-1135G7 @ 2.40GHz	10,087	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,068	\$426.00*
AMD Ryzen 3 5300U	10,029	NA
Intel Core i7-10710U @ 1.10GHz	10,011	\$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*
Intel Core i5-1038NG7 @ 2.00GHz	9,829	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz	9,531	\$426.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i5-1130G7 @ 1.10GHz	9,132	\$309.00*
Intel Core i7-9650HL @ 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	\$251.00*
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	8,197	\$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	7,638	\$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 i7-1060NG7 @ 1.20GHz	7,067	NA
Intel Core i7-10610U @ 1.80GHz	7,020	\$409.00*
Intel Core i7-10510U @ 1.80GHz	6,790	\$409.00*
AMD Ryzen 5 3450U	6,787	NA
Intel Pentium Gold 8505	6,771	NA
Intel Core i5-10310U @ 1.70GHz	6,544	\$297.00*
Intel Core i5-10210U @ 1.60GHz	6,384	\$702.62*
Intel Core i3-1115G4 @ 3.00GHz	6,247	\$281.00*
Intel Core i7-8555UC @ 1.80GHz	6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz	6,147	NA
AMD Ryzen 3 3350U	5,883	NA
AMD Ryzen 3 3300U	5,778	NA
Intel Core i5-7440E @ 2.90GHz	5,711	\$297.00*
Intel Core i5-8365UE @ 1.60GHz	5,555	\$250.00*
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	4,968	NA
Intel Core i5-6442EQ @ 1.90GHz	4,598	\$250.00*
Intel Pentium Silver N6005 @ 2.00GHz	4,585	NA
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*
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	3,980	\$434.17*
AMD Athlon 300U	3,970	NA
AMD Ryzen 3 3250U	3,970	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	3,281	NA
Intel Core i3-10110Y @ 1.00GHz	3,278	\$287.00*
AMD Ryzen Embedded R1305G	3,209	NA
AMD Athlon Silver 3050U	3,044	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	2,516	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*
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 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