

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.

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CPU Mark	Price Performance	Sorted by Date
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PassMark - CPU Mark


Laptop & Portable CPU Performance


Updated 17th of November 2021

CPU	CPU Mark	Price (USD)
Intel Xeon W-11955M @ 2.60GHz	23,973	\$623.00*
Intel Core i9-11980HK @ 2.60GHz	23,692	\$583.00*
Apple M1 Pro 10 Core 3200 MHz	23,683	NA
AMD Ryzen 9 5980HX	23,584	NA
Apple M1 Max 10 Core 3200 MHz	23,504	NA
AMD Ryzen 9 5900HX	23,382	NA

Intel Core i9-11950H @ 2.60GHz	22,679	\$556.00*
AMD Ryzen 9 5900HS	22,401	NA
 CPU Benchmarks ▼		
Intel Core i7-11850H @ 2.50GHz	21,812	\$395.00*
AMD Ryzen 7 5800H	21,618	NA
Intel Core i7-11800H @ 2.30GHz	21,581	\$395.00*
AMD Ryzen 9 5980HS	21,438	NA
AMD Ryzen 7 5800HS	21,089	NA
AMD Ryzen 9 4900HS	19,567	NA
AMD Ryzen 7 5800U	19,323	NA
AMD Ryzen 9 4900H	19,271	NA
AMD Ryzen 7 4800H	19,164	NA
Intel Xeon W-11855M @ 3.20GHz	19,117	\$450.00*
AMD Ryzen 7 4800HS	18,922	NA
AMD Ryzen 7 PRO 5850U	18,546	NA
AMD Ryzen 7 Extreme Edition	18,187	NA
Apple M1 Pro 8 Core 3200 MHz	17,916	NA
AMD Ryzen 5 5600H	17,430	NA
Intel Core i5-11500H @ 2.90GHz	17,268	\$250.00*
AMD Ryzen 7 4800U	17,203	NA
AMD Ryzen 7 5700U	16,554	NA
Intel Core i9-10980HK @ 2.40GHz	16,531	\$583.00*
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
AMD Ryzen 5 5600U	16,113	NA
AMD Ryzen 5 PRO 5650U	15,976	NA
Intel Xeon W-10885M @ 2.40GHz	15,929	\$623.00*
Intel Core i9-10885H @ 2.40GHz	15,921	\$556.00*
Intel Core i5-11260H @ 2.60GHz	15,918	\$250.00*
Intel Core i5-11400H @ 2.70GHz	15,874	\$250.00*
Intel Xeon E-2286M @ 2.40GHz	15,732	\$1,373.18*
Intel Core i7-10875H @ 2.30GHz	15,582	\$450.00*
AMD Ryzen 7 PRO 4750U	15,538	NA
Intel Core i7-10870H @ 2.20GHz	15,367	\$417.00*
Intel Core i9-10880H @ 2.30GHz	15,332	NA
Apple M1 8 Core 3200 MHz	15,143	NA
Intel Core i9-9980HK @ 2.40GHz	14,899	\$583.00*
AMD Ryzen 5 4600H	14,796	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600HS	14,666	NA
Intel Core i9-9880H @ 2.30GHz	14,073	\$556.00*
AMD Ryzen 7 4700U	13,721	NA
AMD Ryzen 5 4600U	13,719	NA
AMD Ryzen 5 5500U	13,246	NA
Intel Xeon W-10855M @ 2.80GHz	13,031	\$450.00*

AMD Ryzen 5 PRO 4650U	12,974	NA
Intel Core i7-1195G7 @ 2.90GHz	12,730	\$426.00*
 CPU Benchmarks ▼		
Intel Core i7-8700B @ 3.20GHz	12,474	\$303.00*
Intel Core i7-11375H @ 3.30GHz	12,417	\$482.00*
Intel Core i7-11370H @ 3.30GHz	12,408	\$426.00*
Intel Core i7-10850H @ 2.70GHz	12,165	\$395.00*
Intel Core i5-10500H @ 2.50GHz	12,118	\$250.00*
Intel Xeon E-2276M @ 2.80GHz	12,057	\$450.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
AMD Ryzen 3 PRO 5450U	12,047	NA
AMD Ryzen 3 5400U	11,888	NA
Intel Core i5-1155G7 @ 2.50GHz	11,851	\$309.00*
Intel Core i7-1185G7E @ 2.80GHz	11,645	\$431.00*
Intel Core i7-9750HF @ 2.60GHz	11,591	\$395.00*
Intel Core i7-9850H @ 2.60GHz	11,571	\$1,305.76*
Intel Core i5-11300H @ 3.10GHz	11,425	\$309.00*
Intel Core i7-9750H @ 2.60GHz	11,255	\$960.00*
AMD Ryzen 5 4500U	11,165	NA
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-11390H @ 3.40GHz	10,921	\$426.00*
Intel Core i7-1185G7 @ 3.00GHz	10,899	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,820	NA
Intel Core i7-9700TE @ 1.80GHz	10,722	\$323.00*
Intel Core i7-1165G7 @ 2.80GHz	10,673	\$426.00*
Intel Core i5-1130G7 @ 1.10GHz	10,540	\$309.00*
Intel Core i7-1160G7 @ 1.20GHz	10,454	\$426.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,251	\$426.00*
Intel Core i5-1135G7 @ 2.40GHz	10,182	\$309.00*
AMD Ryzen 3 PRO 4450U	10,182	NA
Intel Core i3-1125G4 @ 2.00GHz	10,099	NA
Intel Core i7-10710U @ 1.10GHz	10,093	\$644.99*
AMD Ryzen 3 5300U	10,081	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,748	\$320.00*
Intel Core i5-9400F @ 2.90GHz	9,545	\$149.99
Intel Core i5-8500B @ 3.00GHz	9,418	\$192.00*
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	8,918	\$250.00*
Intel Core i7-1065G7 @ 1.30GHz	8,795	\$426.00*
Intel Core i5-10300H @ 2.50GHz	8,757	\$250.00*
Intel Core i5-10200H @ 2.40GHz	8,502	\$250.00*
Intel Core i7-8569U @ 2.80GHz	8,494	\$431.00*
Intel Core i7-10810U @ 1.10GHz	8,457	\$443.00*

Intel Core i5-1035G7 @ 1.20GHz	8,388	\$320.00*
Intel Core i5-9400H @ 2.50GHz	8,323	\$250.00*
 CPU Benchmarks ▼		
Intel Core i5-1035G4 @ 1.10GHz	8,295	\$309.00*
Intel Core i7-8557U @ 1.70GHz	8,225	\$431.00*
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
AMD Ryzen 5 3550H	8,054	NA
Intel Core i5-8279U @ 2.40GHz	8,050	\$320.00*
Intel Core i5-8260U @ 1.60GHz	7,869	\$439.99*
Intel Core i5-9300H @ 2.40GHz	7,849	\$250.00*
Intel Core i5-1035G1 @ 1.00GHz	7,823	\$297.00*
AMD Ryzen 5 3580U	7,797	NA
Intel Core i5-9300HF @ 2.40GHz	7,664	\$250.00*
AMD Ryzen 7 2800H	7,656	NA
AMD Ryzen 3 4300U	7,635	NA
Intel Core i5-8257U @ 1.40GHz	7,618	\$320.00*
AMD Ryzen 7 3780U	7,549	NA
AMD Ryzen 5 2600H	7,537	NA
Intel Core i3-10100T @ 3.00GHz	7,483	\$122.00*
Intel Core i7-7820EQ @ 3.00GHz	7,453	\$378.00*
AMD Ryzen 7 3700U	7,356	NA
AMD Ryzen 7 PRO 3700U	7,325	NA
Intel Core i7-1060NG7 @ 1.20GHz	7,316	NA
AMD Ryzen 5 3500U	7,122	NA
AMD Ryzen 3 PRO 3200GE	7,071	NA
Intel Core i7-10610U @ 1.80GHz	7,055	\$409.00*
Intel Core i7-5850EQ @ 2.70GHz	7,036	\$435.00*
Intel Core i7-10510U @ 1.80GHz	6,884	\$409.00*
AMD Ryzen 5 PRO 3500U	6,884	NA
AMD Ryzen 5 3450U	6,807	NA
Intel Core i5-10310U @ 1.70GHz	6,666	\$297.00*
Intel Core i7-8665UE @ 1.70GHz	6,587	\$409.00*
Intel Core i7-8665U @ 1.90GHz	6,526	\$704.49*
Intel Core i5-10210U @ 1.60GHz	6,449	\$702.62*
Intel Core i5-8365U @ 1.60GHz	6,382	\$539.07*
Intel Core i3-1115G4 @ 3.00GHz	6,355	\$281.00*
Intel Core i3-8100B @ 3.60GHz	6,316	\$133.00*
Intel Core i5-1030NG7 @ 1.10GHz	6,252	NA
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
AMD Ryzen 3 PRO 3300U	6,033	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 3300U	5,837	NA
AMD Ryzen 3 3350U	5,822	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	5,377	NA
 CPU Benchmarks ▼		
Intel Core i3-1005G1 @ 1.20GHz	5,199	\$281.00*
Intel Core i5-10210Y @ 1.00GHz	4,836	NA
Intel Core i5-7442EQ @ 2.10GHz	4,834	\$250.00*
Intel Pentium 6805 @ 1.10GHz	4,735	\$161.00*
AMD Athlon Silver 3050GE	4,545	NA
AMD Athlon 220GE	4,538	\$125.51
Intel Core i5-6442EQ @ 1.90GHz	4,519	\$250.00*
Intel Core i3-9100TE @ 2.20GHz	4,501	\$122.00*
Intel Core i3-8121U @ 2.20GHz	4,369	\$290.00*
Intel Core i5-6350HQ @ 2.30GHz	4,255	\$306.00*
Intel Pentium Silver N6005 @ 2.00GHz	4,143	NA
Intel Core i3-8145UE @ 2.20GHz	4,133	\$281.00*
AMD Athlon Gold 3150U	4,084	NA
Intel Core i3-10110U @ 2.10GHz	4,054	\$434.17*
AMD Ryzen 3 3250U	4,017	NA
AMD Athlon 300U	4,006	NA
Microsoft ARM SQ1 @ 3.0 GHz	3,983	NA
AMD Ryzen Embedded R1505G	3,966	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,963	NA
AMD Ryzen 3 3200U	3,928	NA
AMD A8-7680	3,571	\$50.08*
Intel Core i5-L16G7 @ 1.40GHz	3,418	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
AMD Ryzen Embedded R1305G	3,329	NA
Intel Core i3-10110Y @ 1.00GHz	3,289	\$287.00*
Intel Core i3-7167U @ 2.80GHz	3,280	NA
AMD Athlon Silver 3050U	3,107	NA
Intel Core m3-8100Y @ 1.10GHz	3,019	\$281.00*
AMD Athlon Silver 3050e	2,921	NA
Intel Core i5-8210Y @ 1.60GHz	2,838	NA
AMD A6-9400	2,717	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,678	NA
AMD 3015e	2,674	NA
Intel Celeron N5100 @ 1.10GHz	2,641	NA
AMD 3020e	2,591	NA
Intel Core i3-7102E @ 2.10GHz	2,521	\$225.00*
Intel Celeron N4120 @ 1.10GHz	2,447	NA
Intel Pentium 6405U @ 2.40GHz	2,360	\$161.00*
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
Intel Core i5-8200Y @ 1.30GHz	2,308	\$291.00*
Intel Pentium 5405U @ 2.30GHz	2,282	\$161.00*

Intel Celeron 6305 @ 1.80GHz	2,259	NA
Intel Pentium 4417U @ 2.30GHz	2,237	\$161.00*
 CPU Benchmarks ▼		
AMD GX-420MC SOC	1,796	NA
Intel Pentium 4425Y @ 1.70GHz	1,688	\$161.00*
Intel Celeron N4000C @ 1.10GHz	1,611	NA
Intel Celeron N4020 @ 1.10GHz	1,590	NA
Intel Celeron 3867U @ 1.80GHz	1,481	\$107.00*
Intel Celeron 5205U @ 1.90GHz	1,368	\$107.00*
Intel Celeron 4205U @ 1.80GHz	1,321	\$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 A4-9125	1,213	NA
AMD A6-9220C	1,163	NA
AMD PRO A4-4350B	1,093	NA
AMD A4-9120e	908	NA
AMD A4-9120C	865	NA

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