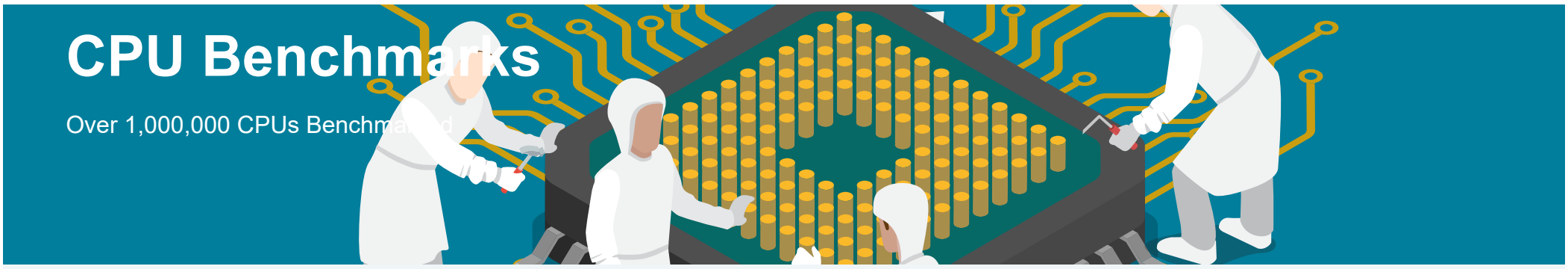
CPU Benchmarks



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 1st of April 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12900H	30,699	$617.00*
Intel Core i9-12900HK	29,512	$635.00*
Intel Core i7-12700H	27,074	$457.00*
AMD Ryzen 9 6900HS	24,842	NA
Intel Xeon W-11955M @ 2.60GHz	24,141	$623.00*
Intel Core i9-11980HK @ 2.60GHz	23,518	$583.00*
AMD Ryzen 9 5980HX	23,402	NA
AMD Ryzen 9 5900HX	23,173	NA
Intel Core i5-1250P	23,120	NA
Intel Core i7-1270P	22,842	NA
Apple M1 Max 10 Core 3200 MHz	22,671	NA
Intel Core i5-12500H	22,629	$311.00*
AMD Ryzen 7 6800H	22,593	NA
Intel Core i9-11950H @ 2.60GHz	22,551	$556.00*
Apple M1 Pro 10 Core 3200 MHz	22,413	NA
AMD Ryzen 9 5900HS	22,263	NA
Intel Core i9-11900H @ 2.50GHz	21,683	$546.00*
Intel Core i5-1240P	21,646	NA
AMD Ryzen 7 5800H	21,492	NA
Intel Core i7-11800H @ 2.30GHz	21,463	$395.00*
AMD Ryzen 9 5980HS	21,412	NA
Intel Core i7-11850H @ 2.50GHz	21,235	$395.00*

Compare 0

CPU Benchmarks

Most Benchmarked

AMD vs Intel Market Share

Year on Year

Performance

AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 PRO 5875U	20,369	NA
Intel Core i5-12450H	19,820	$311.00*
AMD Ryzen 9 4900HS	19,448	NA
AMD Ryzen 9 4900H	19,310	NA
AMD Ryzen 7 4800H	19,069	NA
Intel Xeon W-11855M @ 3.20GHz	19,063	$450.00*
AMD Ryzen 7 4800HS	18,882	NA
AMD Ryzen 7 5800U	18,860	NA
AMD Ryzen 7 Extreme Edition	18,209	NA
AMD Ryzen 7 PRO 5850U	17,741	NA
Apple M1 Pro 8 Core 3200 MHz	17,597	NA
AMD Ryzen 5 5600H	17,202	NA
AMD Ryzen 7 4800U	17,100	NA
Intel Core i7-10700E @ 2.90GHz	17,020	$330.00*
Intel Core i5-11500H @ 2.90GHz	16,396	$250.00*
AMD Ryzen 7 5825U	16,377	NA
Intel Core i7-10700TE @ 2.00GHz	16,332	$330.00*
Intel Core i9-10980HK @ 2.40GHz	16,284	$583.00*
AMD Ryzen 7 5700U	16,187	NA
Intel Core i5-11400H @ 2.70GHz	16,127	$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	15,706	$556.00*
AMD Ryzen 7 PRO 4750U	15,522	NA
Intel Xeon E-2286M @ 2.40GHz	15,489	$1,373.18*
Intel Core i7-10875H @ 2.30GHz	15,474	$450.00*
AMD Ryzen 5 PRO 5650U	15,405	NA
AMD Ryzen 5 5600U	15,343	NA
Intel Core i5-11260H @ 2.60GHz	15,068	$250.00*
Intel Core i9-10880H @ 2.30GHz	15,064	NA
Intel Core i7-10870H @ 2.20GHz	15,047	$417.00*
AMD Ryzen 5 5625U	14,818	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
Apple M1 8 Core 3200 MHz	14,762	NA
AMD Ryzen 5 4600H	14,751	NA
AMD Ryzen 5 4600HS	14,735	NA
Intel Core i9-9980HK @ 2.40GHz	14,707	$583.00*
Intel Core i9-9880H @ 2.30GHz	14,023	$556.00*
AMD Ryzen 7 4700U	13,652	NA
AMD Ryzen 5 4600U	13,603	NA
AMD Ryzen 5 5500U	13,184	NA
Intel Xeon W-10855M @ 2.80GHz	13,121	$450.00*
AMD Ryzen 5 PRO 4650U	12,941	NA
Intel Core i7-12800H	12,867	$457.00*
Intel Core i7-10750H @ 2.60GHz	12,382	NA

Intel Core i7-11375H @ 3.30GHz	12,349	$482.00*
AMD Ryzen 3 5425U	12,269	NA

CPU Benchmarks

AMD Ryzen 5 PRO 4500U	12,049	NA
AMD Ryzen 3 5400U	11,856	NA
Intel Xeon E-2276M @ 2.80GHz	11,792	$450.00*
Intel Core i5-10500H @ 2.50GHz	11,592	$250.00*
Intel Core i7-1260P	11,560	NA
Intel Core i7-9850H @ 2.60GHz	11,508	$1,305.76*
Intel Core i7-9750HF @ 2.60GHz	11,473	$395.00*
AMD Ryzen 3 PRO 5450U	11,453	NA
Intel Core i7-9750H @ 2.60GHz	11,216	$960.00*
Intel Core i5-1235U	11,119	$309.00*
Intel Core i7-1185G7E @ 2.80GHz	11,114	$431.00*
AMD Ryzen 5 4500U	11,111	NA
Intel Core i7-1195G7 @ 2.90GHz	11,102	$426.00*
Intel Core i5-11300H @ 3.10GHz	11,093	$309.00*
Intel Core i7-1185G7 @ 3.00GHz	11,034	$426.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-11390H @ 3.40GHz	10,847	$426.00*
Intel Core i7-9700TE @ 1.80GHz	10,826	$323.00*
Intel Core i5-11320H @ 3.20GHz	10,764	$309.00*
Intel Core i7-1265U	10,671	$426.00*
Intel Core i7-1165G7 @ 2.80GHz	10,617	$426.00*
Intel Core i5-1155G7 @ 2.50GHz	10,473	$309.00*
Intel Core i5-1145G7 @ 2.60GHz	10,414	NA
Intel Core i7-1160G7 @ 1.20GHz	10,316	$426.00*
AMD Ryzen 3 PRO 4450U	10,139	NA
Intel Core i5-1135G7 @ 2.40GHz	10,134	$309.00*
AMD Ryzen 3 5300U	10,129	NA
Intel Core i7-10710U @ 1.10GHz	10,124	$644.99*
Intel Core i7-1068NG7 @ 2.30GHz	10,100	$426.00*
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	9,644	$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	8,700	$426.00*
Intel Core i5-10300H @ 2.50GHz	8,695	$250.00*
Intel Core i7-8569U @ 2.80GHz	8,535	$431.00*
Intel Core i5-10200H @ 2.40GHz	8,515	$250.00*
Intel Core i5-1035G7 @ 1.20GHz	8,426	$320.00*
Intel Core i7-10810U @ 1.10GHz	8,353	$443.00*
Intel Core i5-9400H @ 2.50GHz	8,302	$250.00*
AMD Ryzen 7 3750H	8,274	NA
Intel Core i5-1035G4 @ 1.10GHz	8,250	$309.00*
Intel Core i7-8557U @ 1.70GHz	8,225	$431.00*
Intel Core i5-8269U @ 2.60GHz	8,055	$320.00*

Intel Core i5-8279U @ 2.40GHz	8,027	$320.00*
Intel Core i5-8260U @ 1.60GHz	7,854	$439.99*

CPU Benchmarks

Intel Core i5-1035G1 @ 1.00GHz	7,758	$297.00*
Intel Core i5-8257U @ 1.40GHz	7,725	$320.00*
Intel Core i5-9300HF @ 2.40GHz	7,673	$250.00*
AMD Ryzen 3 4300U	7,564	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	7,337	NA
AMD Ryzen 7 3700U	7,314	NA
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	7,086	$409.00*
Intel Core i7-1060NG7 @ 1.20GHz	7,076	NA
AMD Ryzen 3 PRO 3200GE	7,071	NA
AMD Ryzen 5 PRO 3500U	6,937	NA
Intel Core i7-10510U @ 1.80GHz	6,860	$409.00*
AMD Ryzen 5 3450U	6,805	NA
Intel Pentium Gold 8505	6,771	NA
Intel Core i5-10310U @ 1.70GHz	6,634	$297.00*
Intel Core i7-1180G7 @ 1.30GHz	6,607	$426.00*
Intel Core i5-10210U @ 1.60GHz	6,433	$702.62*
Intel Core i7-8665U @ 1.90GHz	6,416	$704.49*
Intel Core i3-1115G4 @ 3.00GHz	6,301	$281.00*
Intel Core i5-8365U @ 1.60GHz	6,281	$539.07*
Intel Core i5-1030NG7 @ 1.10GHz	6,188	NA
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
AMD Ryzen 3 PRO 3300U	6,144	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 3350U	5,872	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 i3-1005G1 @ 1.20GHz	5,147	$281.00*
Intel Core i7-10510Y @ 1.20GHz	5,076	$403.00*
Intel Core i7-8665UE @ 1.70GHz	5,017	$409.00*
AMD Ryzen 5 3500C	4,905	NA
Intel Core i5-10210Y @ 1.00GHz	4,836	NA
Intel Pentium 6805 @ 1.10GHz	4,745	$161.00*
Intel Core i5-6442EQ @ 1.90GHz	4,598	$250.00*
AMD Athlon Silver 3050GE	4,545	NA
Intel Pentium Silver N6005 @ 2.00GHz	4,513	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	$122.00*
Microsoft ARM SQ1 @ 3.0 GHz	4,371	NA
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	4,133	$281.00*

AMD Athlon Gold 3150U	4,037	NA

CPU Benchmarks

AMD Ryzen 3 3250U	3,984	NA
AMD Ryzen Embedded R1505G	3,966	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,911	NA
AMD Ryzen 3 3200U	3,892	NA
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Core i5-L16G7 @ 1.40GHz	3,391	$281.00*
Intel Core i3-10110Y @ 1.00GHz	3,278	$287.00*
AMD Ryzen Embedded R1305G	3,268	NA
Intel Celeron N5100 @ 1.10GHz	3,198	NA
AMD Athlon Silver 3050U	3,074	NA
AMD Athlon Silver 3050e	2,911	NA
AMD A6-9400	2,717	NA
AMD 3015e	2,703	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,687	NA
AMD Ryzen 3 3250C	2,595	NA
Intel Core i3-7102E @ 2.10GHz	2,521	$225.00*
Intel Celeron N4120 @ 1.10GHz	2,507	NA
AMD 3020e	2,492	NA
Intel Pentium 6405U @ 2.40GHz	2,367	$161.00*
Intel Core i3-6102E @ 1.90GHz	2,349	$225.00*
Intel Pentium 5405U @ 2.30GHz	2,286	$161.00*
Intel Celeron 6305 @ 1.80GHz	2,211	NA
Intel Celeron 4305UE @ 2.00GHz	1,908	NA
Intel Pentium 4425Y @ 1.70GHz	1,697	$161.00*
Intel Celeron N4000C @ 1.10GHz	1,611	NA
Intel Celeron N4020 @ 1.10GHz	1,566	NA
Intel Celeron 3867U @ 1.80GHz	1,489	$107.00*
Intel Celeron 5205U @ 1.90GHz	1,414	$107.00*
Intel Celeron 4205U @ 1.80GHz	1,334	$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 A6-9220C	1,175	NA
AMD PRO A4-4350B	1,093	NA
AMD A4-9120e	899	NA
AMD A4-9120C	894	NA

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