CPU Benchmarks

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

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 September 2022

CPU	CPU Mark	Price (USD)
Intel Core i7-12800HX	36,723	$457.00*
Intel Core i9-12900HX	35,428	$606.00*
Intel Core i9-12950HX	34,603	$590.00*
Intel Core i7-12850HX	31,076	$428.00*
Intel Core i9-12900HK	29,674	$635.00*
Intel Core i9-12900H	28,987	$617.00*
Intel Core i7-12700H	27,011	$457.00*
AMD Ryzen 9 6900HX	24,908	NA
Intel Core i5-12600HX	24,689	$284.00*
Intel Core i7-12650H	24,639	$457.00*
AMD Ryzen 9 PRO 6950H	24,464	NA
AMD Ryzen 7 PRO 6850H	24,325	NA
AMD Ryzen 9 6900HS	24,273	NA
Intel Core i7-12800H	24,022	$457.00*
AMD Ryzen 9 PRO 6950HS	23,843	NA
Intel Core i9-11980HK @ 2.60GHz	23,447	$583.00*
AMD Ryzen 7 6800HS	23,418	NA
AMD Ryzen 7 6800HS Creator Edition	23,418	NA
Intel Xeon W-11955M @ 2.60GHz	23,346	$623.00*
AMD Ryzen 7 6800H	23,338	NA
AMD Ryzen 9 5900HX	23,028	NA

Compare 0

CPU Benchmarks

Most Benchmarked

AMD vs Intel Market Share

Year on Year

Performance

AMD Ryzen 9 5980HX	22,948	NA
Intel Core i9-11950H @ 2.60GHz	22,376	$556.00*
AMD Ryzen 9 5900HS	22,174	NA
Apple M1 Pro 10 Core 3200 MHz	22,081	NA
AMD Ryzen 9 6900HS Creator Edition	21,637	NA
AMD Ryzen 7 PRO 6850U	21,543	NA
Intel Core i5-12500H	21,529	$311.00*
AMD Ryzen 9 5980HS	21,491	NA
AMD Ryzen 7 5800H	21,368	NA
Intel Core i7-11800H @ 2.30GHz	21,173	$395.00*
Intel Core i9-11900H @ 2.50GHz	21,163	$546.00*
Intel Core i7-11850H @ 2.50GHz	21,150	$395.00*
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 5800HS Creator Edition	20,948	NA
AMD Ryzen 7 6800U	20,902	NA
Intel Core i7-12700TE	20,712	$344.00*
AMD Ryzen 7 5800HS	20,683	NA
AMD Ryzen 5 PRO 6650H	20,103	NA
AMD Ryzen 7 PRO 6850HS	20,062	NA
Intel Core i7-1280P	19,894	$482.00*
AMD Ryzen 5 6600H	19,888	NA
Intel Core i5-1250P	19,643	NA
AMD Ryzen 9 4900HS	19,350	NA
AMD Ryzen 9 4900H	19,305	NA
AMD Ryzen 7 4800H	18,954	NA
AMD Ryzen 7 4800HS	18,821	NA
AMD Ryzen 7 5800U	18,818	NA
Intel Xeon W-11855M @ 3.20GHz	18,615	$450.00*
Intel Core i7-1270P	18,478	NA
Intel Core i5-12450H	18,404	$311.00*
AMD Ryzen 7 5825U	18,329	NA
AMD Ryzen 7 Extreme Edition	18,192	NA
Intel Core i3-1220P	18,058	$281.00*
AMD Ryzen 7 PRO 5850U	17,340	NA
Apple M1 Pro 8 Core 3200 MHz	17,308	NA
AMD Ryzen 5 6600U	17,257	NA
Intel Core i5-1240P	17,240	NA
Intel Core i7-1260P	17,214	NA
AMD Ryzen 5 PRO 6650U	17,144	NA
AMD Ryzen 5 5600H	17,114	NA
AMD Ryzen 5 5560U	17,084	NA
AMD Ryzen 7 4800U	17,018	NA
Intel Core i5-12500TE	16,865	$205.00*
AMD Ryzen 7 PRO 5875U	16,466	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	16,133	$250.00*
Intel Core i9-10980HK @ 2.40GHz	16,089	$583.00*

Intel Xeon W-10885M @ 2.40GHz	16,080	$623.00*
Intel Core i5-11400H @ 2.70GHz	15,949	$250.00*

CPU Benchmarks

AMD Ryzen 7 5700U	15,919	NA
Intel Core i7-11600H @ 2.90GHz	15,907	$395.00*
Intel Core i9-10885H @ 2.40GHz	15,564	$556.00*
Intel Core i5-11260H @ 2.60GHz	15,491	$250.00*
Apple M2 8 Core 3500 MHz	15,480	NA
AMD Ryzen 7 PRO 4750U	15,414	NA
Intel Core i7-10875H @ 2.30GHz	15,362	$450.00*
AMD Ryzen 5 5600U	15,353	NA
AMD Ryzen 5 PRO 5650U	15,166	NA
Intel Core i7-10870H @ 2.20GHz	14,899	$417.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600HS	14,741	NA
Intel Core i9-10880H @ 2.30GHz	14,735	NA
AMD Ryzen 5 4600H	14,699	NA
Apple M1 8 Core 3200 MHz	14,499	NA
AMD Ryzen 5 5625U	14,258	NA
AMD Ryzen 5 PRO 5675U	13,900	NA
Intel Core i5-1235U	13,682	$309.00*
AMD Ryzen 7 4700U	13,595	NA
AMD Ryzen 5 4600U	13,484	NA
Intel Core i7-1255U	13,392	$426.00*
Intel Core i7-1265U	13,181	$426.00*
AMD Ryzen 5 5500U	13,167	NA
Intel Core i3-12100TE	12,961	$125.00*
Intel Xeon W-10855M @ 2.80GHz	12,906	$450.00*
AMD Ryzen 5 PRO 4650U	12,836	NA
Intel Core i7-11375H @ 3.30GHz	12,319	$482.00*
Intel Core i7-10750H @ 2.60GHz	12,257	NA
Intel Core i7-10850H @ 2.70GHz	12,148	$395.00*
Intel Core i3-1210U	12,130	NA
AMD Ryzen 3 PRO 5475U	12,074	NA
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-11370H @ 3.30GHz	11,938	$426.00*
AMD Ryzen 3 5400U	11,828	NA
Intel Core i5-10500H @ 2.50GHz	11,619	$250.00*
Intel Core i3-1215U	11,618	NA
AMD Ryzen 3 PRO 5450U	11,563	NA
Intel Core i7-9750HF @ 2.60GHz	11,159	$395.00*
AMD Ryzen 5 4500U	11,060	NA
Intel Core i5-11300H @ 3.10GHz	11,046	$309.00*
Intel Core i7-1195G7 @ 2.90GHz	10,976	$426.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-9700TE @ 1.80GHz	10,826	$323.00*
Intel Core i7-1185G7 @ 3.00GHz	10,803	$426.00*
Intel Core i5-11320H @ 3.20GHz	10,685	$309.00*
Intel Core i7-11390H @ 3.40GHz	10,625	$426.00*
Intel Core i7-1165G7 @ 2.80GHz	10,493	$426.00*

AMD Ryzen 3 5425U	10,359	NA
Intel Core i5-1145G7 @ 2.60GHz	10,224	NA

CPU Benchmarks

Intel Core i5-1135G7 @ 2.40GHz	10,070	$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,050	$426.00*
Intel Core i7-1185G7E @ 2.80GHz	9,980	$431.00*
Intel Core i5-10500TE @ 2.30GHz	9,960	$195.00*
Intel Core i3-1125G4 @ 2.00GHz	9,960	NA
Intel Core i7-10710U @ 1.10GHz	9,958	$644.99*
AMD Ryzen 3 5300U	9,953	NA
Intel Core i5-1230U	9,896	$309.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,628	$320.00*
Intel Core i7-1160G7 @ 1.20GHz	9,379	$426.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	$395.00*
Intel Core i7-1250U	9,091	$426.00*
Intel Core i5-1130G7 @ 1.10GHz	8,927	$309.00*
Intel Core i5-10400H @ 2.60GHz	8,841	$250.00*
Intel Core i5-10300H @ 2.50GHz	8,647	$250.00*
Intel Core i7-1180G7 @ 1.30GHz	8,514	$426.00*
Intel Core i5-1035G7 @ 1.20GHz	8,492	$320.00*
Intel Core i7-8569U @ 2.80GHz	8,451	$431.00*
Intel Core i5-10200H @ 2.40GHz	8,367	$250.00*
Intel Core i7-8557U @ 1.70GHz	8,225	$431.00*
Intel Core i5-1035G4 @ 1.10GHz	8,130	$309.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8269U @ 2.60GHz	8,055	$320.00*
Intel Core i7-10810U @ 1.10GHz	7,984	$443.00*
Intel Core i5-8260U @ 1.60GHz	7,854	$439.99*
Intel Core i5-8279U @ 2.40GHz	7,753	$320.00*
Intel Core i5-8257U @ 1.40GHz	7,666	$320.00*
AMD Ryzen 7 3780U	7,651	NA
Intel Core i5-9300HF @ 2.40GHz	7,615	$250.00*
Intel Core i5-1035G1 @ 1.00GHz	7,598	$297.00*
AMD Ryzen 3 4300U	7,565	NA
AMD Ryzen 5 3580U	7,383	NA
Intel Core i3-10100T @ 3.00GHz	7,376	$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	7,036	$409.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,985	NA
AMD Ryzen 5 3450U	6,794	NA
Intel Core i7-10510U @ 1.80GHz	6,785	$409.00*
Intel Pentium Gold 8505	6,771	NA
Intel Core i5-10310U @ 1.70GHz	6,546	$297.00*
Intel Core i5-10210U @ 1.60GHz	6,363	$702.62*
Intel Core i3-1115G4 @ 3.00GHz	6,239	$281.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz	6,055	NA
AMD Ryzen 3 3350U	5,889	NA

Intel Core i5-7440EQ @ 2.90GHz	5,711	$250.00*
Intel Core i5-8365UE @ 1.60GHz	5,555	$297.00*

CPU Benchmarks

AMD Ryzen 5 3500C	5,214	NA
Intel Core i3-1005G1 @ 1.20GHz	5,077	$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	4,961	NA
Intel Core i5-6442EQ @ 1.90GHz	4,598	$250.00*
Intel Pentium Silver N6005 @ 2.00GHz	4,573	NA
AMD Athlon Silver 3050GE	4,545	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	$122.00*
Intel Pentium 6805 @ 1.10GHz	4,448	$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*
Intel Core i3-10110U @ 2.10GHz	4,005	$434.17*
AMD Athlon Gold 3150U	3,973	NA
AMD Ryzen 3 3250U	3,961	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,834	NA
Intel Core i5-L16G7 @ 1.40GHz	3,432	$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Celeron N5100 @ 1.10GHz	3,325	NA
Intel Core i3-10110Y @ 1.00GHz	3,256	$287.00*
AMD Athlon Gold 3150C	3,205	NA
AMD Ryzen Embedded R1305G	3,109	NA
AMD Ryzen 3 3250C	3,044	NA
AMD Athlon Silver 3050U	3,043	NA
AMD Athlon Silver 3050e	2,952	NA
AMD 3015e	2,720	NA
AMD A6-9400	2,717	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,685	NA
Intel Celeron 7305	2,665	$107.00*
Intel Celeron N4120 @ 1.10GHz	2,512	NA
AMD 3020e	2,467	NA
Intel Pentium 6405U @ 2.40GHz	2,370	$161.00*
Intel Celeron 6305 @ 1.80GHz	2,154	NA
Intel Celeron 4305UE @ 2.00GHz	1,876	NA
Intel Pentium 4425Y @ 1.70GHz	1,732	$161.00*
Intel Celeron N4020C @ 1.10GHz	1,652	NA
Intel Celeron N4020 @ 1.10GHz	1,571	NA
Intel Celeron 5205U @ 1.90GHz	1,448	$107.00*
Intel Celeron N4000C @ 1.10GHz	1,360	NA
Intel Pentium A1020 @ 2.41GHz	1,290	NA
Intel Celeron 1020M @ 2.10GHz	1,275	NA
AMD R-272F APU	1,215	NA
AMD PRO A4-4350B	1,106	NA
Intel Pentium Dual T2390 @ 1.86GHz	745	NA

CPU Benchmarks

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