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 listing CPUs that 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
Compare
Common Mid Benchmarked
AMD vs Intel Market Share
Year on Year Performance

AD

CPU Mark | Price Performance | Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 16th of November 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12900HX	34,728	$958.00
Intel Core i7-12800HX	34,194	$457.00
Intel Core i9-12950HX	32,057	$590.00
Intel Core i7-12800HX	31,083	$428.00
Intel Core i9-12900HK	29,593	$635.00
Intel Core i9-12900H	28,815	$617.00
Intel Core i7-12700H	26,756	$457.00
AMD Ryzen 9 6900HX	25,556	NA
Intel Core i7-12650H	24,712	$457.00
Intel Core i7-12800H	24,591	$457.00
AMD Ryzen 9 6900HS	23,974	NA
AMD Ryzen 7 6800H	23,866	NA
AMD Ryzen 9 PRO 6950HS	23,765	NA
AMD Ryzen 9 5980HX	23,428	NA
Intel Core i9-11900H @ 2.60GHz	23,427	$583.00
Intel Xeon W-11955M @ 2.60GHz	23,302	$623.00
AMD Ryzen 9 PRO 6950H	23,248	NA
AMD Ryzen 7 PRO 6850H	23,070	NA
Intel Core i7-12800HE	23,066	$284.00
AMD Ryzen 7 6800HS Creator Edition	22,984	NA
AMD Ryzen 9 5900HX	22,941	NA
AMD Ryzen 7 6800HS	22,758	NA
Intel Core i5-12900H	22,704	$311.00
AMD Ryzen 9 6900HS Creator Edition	22,539	NA
Apple M1 Max 10 Core 3200 MHz	22,236	NA
AMD Ryzen 9 5900HS	22,113	NA
Intel Core i9-11900H @ 2.60GHz	22,065	$556.00
Apple M1 Pro 10 Core 3200 MHz	22,000	NA
Intel Core i5-12500H	21,834	$311.00
AMD Ryzen 7 PRO 6850Z	21,573	NA
AMD Ryzen 9 5900HS	21,492	NA
AMD Ryzen 7 5800H	21,335	NA
Intel Core i7-11800H @ 2.30GHz	21,124	$395.00
Intel Core i7-11850H @ 2.50GHz	21,118	$395.00
Intel Core i9-11900H @ 2.50GHz	21,024	$546.00
AMD Ryzen 7 PRO 6850U	21,014	NA
AMD Ryzen 9 5900H	20,992	NA
AMD Ryzen 7 6800HS Creator Edition	20,948	NA
Intel Core i7-12700TE	20,712	$344.00
AMD Ryzen 7 6800HS	20,616	NA
AMD Ryzen 7 6800U	20,595	NA
Intel Core i7-1280P	20,174	$482.00
AMD Ryzen 9 PRO 6650H	20,103	NA
AMD Ryzen 7 PRO 6850HS	20,062	NA
AMD Ryzen 9 4900HS	19,318	NA
AMD Ryzen 9 4900H	19,221	NA
AMD Ryzen 5 6600HS Creator Edition	19,030	NA
AMD Ryzen 7 4800H	18,915	NA
AMD Ryzen 5 6600H	18,861	NA
AMD Ryzen 7 5800U	18,846	NA
AMD Ryzen 7 4800HS	18,773	NA
Intel Xeon W-11855M @ 3.20GHz	18,448	$459.00
Intel Core i5-1250P	18,413	NA
AMD Ryzen 7 5825U	18,278	NA
AMD Ryzen 7 Extreme Edition	18,261	NA
Intel Core i5-12450H	18,091	$311.00
Intel Core i7-1270P	17,774	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,627	NA
Intel Core i5-1240P	17,574	NA
AMD Ryzen 5 6600U	17,473	NA
Intel Core i5-12500TE	17,460	$355.00
AMD Ryzen 7 PRO 5850U	17,370	NA
Apple M1 Pro 8 Core 3200 MHz	17,234	NA
AMD Ryzen 5 5600H	17,131	NA
Intel Core i7-1260P	17,025	NA
AMD Ryzen 7 4800U	17,020	NA
AMD Ryzen 7 PRO 5875U	16,443	NA
Intel Core i7-10700E @ 2.90GHz	16,419	$330.00
Intel Core i7-10700TE @ 2.00GHz	16,332	$330.00
AMD Ryzen 5 PRO 6650U	16,245	NA
Intel Core i9-11900H @ 2.90GHz	16,204	$250.00
Intel Xeon W-10885M @ 2.40GHz	16,048	$623.00
Intel Core i9-10980HK @ 2.40GHz	16,042	$583.00
Intel Core i9-11400H @ 2.70GHz	15,997	$290.00
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,907	$395.00
AMD Ryzen 7 5700U	15,859	NA
Intel Core i7-11800H @ 2.30GHz	15,724	$250.00
Intel Core i9-10850H @ 2.40GHz	15,565	$556.00
Apple M2 8 Core 3500 MHz	15,396	NA
AMD Ryzen 7 PRO 4750U	15,337	NA
Intel Core i7-10875H @ 2.30GHz	15,329	$450.00
Intel Core i3-1220P	15,310	$281.00
AMD Ryzen 5 5600U	15,300	NA
AMD Ryzen 5 5560U	15,287	NA
AMD Ryzen 5 PRO 5650U	15,197	NA
Intel Core i7-10870H @ 2.20GHz	14,948	$417.00
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i9-10880H @ 2.30GHz	14,736	NA
AMD Ryzen 5 4600H	14,679	NA
AMD Ryzen 5 5625U	14,674	NA
AMD Ryzen 5 4600HS	14,583	NA
AMD Ryzen 5 PRO 5675U	14,496	NA
Apple M1 8 Core 3200 MHz	14,366	NA
Intel Core i5-1240U	14,323	NA
Intel Core i7-1255U	13,569	$426.00*
AMD Ryzen 7 4700U	13,528	NA
Intel Core i7-1265U	13,500	$426.00*
Intel Core i5-1250U	13,498	$308.00*
AMD Ryzen 5 4600U	13,462	NA
AMD Ryzen 5 5500U	13,168	NA
Intel Core i7-1255U	13,061	$426.00*
Intel Core i7-1260U	13,024	NA
Intel Core i3-1210UE	12,961	$125.00*
Intel Xeon W-10855M @ 2.80GHz	12,958	$450.00*
AMD Ryzen 5 PRO 4650U	12,917	NA
Intel Core i7-1137H @ 3.30GHz	12,248	$482.00*
Intel Core i7-10750H @ 2.60GHz	12,196	NA
Intel Core i3-1215U	12,138	NA
Intel Core i7-10850H @ 2.70GHz	12,080	$395.00*
AMD Ryzen 5 PRO 4650U	12,048	NA
Intel Core i7-1170H @ 3.30GHz	11,942	$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,783	NA
Intel Core i5-10500H @ 2.50GHz	11,666	$250.00*
AMD Ryzen 5 3425U	11,544	NA
Intel Core i3-1215U	11,443	NA
AMD Ryzen 3 PRO 5475U	11,339	NA
Intel Core i7-8750HF @ 2.60GHz	11,132	$395.00*
Intel Core i5-11300H @ 3.10GHz	11,089	$309.00*
AMD Ryzen 5 PRO 3450U	11,064	NA
AMD Ryzen 5 4500U	11,050	NA
Intel Core i5-1320H @ 3.20GHz	11,034	$309.00*
Intel Core i7-11557LE @ 2.90GHz	10,974	$426.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-9700TE @ 1.80GHz	10,740	$323.00*
Intel Core i7-11557LE @ 3.00GHz	10,739	$426.00*
AMD Ryzen 3 5400U	10,658	NA
Intel Core i5-1230U	10,553	$309.00*
Intel Core i7-11657LE @ 2.80GHz	10,499	$426.00*
Intel Core i7-11504H @ 3.40GHz	10,463	$426.00*
Intel Core i5-11457LE @ 2.60GHz	10,145	NA
Intel Core i5-11557LE @ 2.50GHz	10,099	$309.00*
AMD Ryzen 3 PRO 4450U	10,048	NA
Intel Core i5-11357LE @ 2.40GHz	10,031	$309.00*
AMD Ryzen 3 5300U	9,993	NA
Intel Core i7-11852UE @ 2.80GHz	9,960	$451.00*
Intel Core i5-10500TE @ 2.30GHz	9,960	$195.00*
Intel Core i3-1125G4 @ 2.00GHz	9,906	NA
Intel Core i7-10810U @ 1.10GHz	9,863	$426.00*
Intel Core i5-10310U @ 1.70GHz	9,515	$320.00*
Intel Core i7-11657LE @ 1.20GHz	9,200	$426.00*
Intel Core i7-8850HL @ 1.90GHz	8,112	$395.00*
Intel Core i5-9500TE @ 2.20GHz	8,028	$192.00*
Intel Core i5-1135G7 @ 1.10GHz	8,928	$309.00*
Intel Core i5-10400H @ 2.60GHz	8,866	$250.00*
Intel Core i5-10300H @ 2.50GHz	8,644	$250.00*
Intel Core i5-10200H @ 2.40GHz	8,364	$250.00*
Intel Core i7-8565U @ 1.80GHz	8,327	$451.00*
Intel Core i7-1180G7 @ 1.30GHz	8,304	$426.00*
Intel Core i7-8557U @ 1.70GHz	8,167	$431.00*
Intel Core i7-10810U @ 1.10GHz	8,077	$443.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8265U @ 1.60GHz	8,056	$320.00*
Intel Core i5-8350U @ 1.90GHz	7,651	$439.00*
Intel Core i5-9300HF @ 2.40GHz	7,571	$256.00*
AMD Ryzen 3 4300U	7,533	NA
Intel Core i3-10100T @ 3.00GHz	7,344	$122.00*
AMD Ryzen 7 3700C	7,148	NA
Intel Core i7-10610U @ 1.80GHz	6,996	$409.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,945	NA
AMD Ryzen 5 3450U	6,760	NA
Intel Pentium Gold 8505	6,670	NA
Intel Core i5-10210U @ 1.70GHz	6,513	$297.00*
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,448	NA
Intel Core i3-1115G4 @ 3.00GHz	6,229	$281.00*
Intel Core i7-8650UC @ 1.90GHz	6,187	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,171	NA
AMD Ryzen 3 3350U	5,904	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,858	NA
Intel Core i3-7440EQ @ 2.90GHz	5,711	$256.00*
Intel Pentium Silver N6005 @ 2.00GHz	5,363	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,293	NA
Snapdragon 8c @ 2.46 GHz	5,230	NA
AMD Ryzen 5 3500C	5,208	NA
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
AMD Athlon Silver 3050GE	4,540	NA
Intel Core i3-8145UE @ 2.20GHz	4,481	$122.00*
Intel Pentium 6805 @ 1.10GHz	4,448	$161.00*
Snapdragon 8cx @ 2.84 GHz	4,326	$306.00*
Intel Core i5-8350HQ @ 3.30GHz	4,255	$306.00*
Intel Core i3-8145U @ 2.10GHz	4,227	NA
Intel Core i3-8145UE @ 2.20GHz	4,087	$281.00*
AMD Athlon Gold 3150U	4,011	NA
AMD Ryzen 3 3250U	3,917	NA
Intel Core i3-1005NG4 @ 1.10GHz	3,926	NA
Snapdragon 7c @ 1.96 GHz	3,828	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,457	NA
Intel Core i5-L16G7 @ 1.40GHz	3,446	$281.00*
Intel Pentium Silver N6000 @ 1.10GHz	3,454	NA
Intel Celeron N5100 @ 1.10GHz	3,360	NA
AMD Athlon Gold 3150C	3,292	NA
Intel Core i3-10110Y @ 1.00GHz	3,288	$297.00*
AMD Ryzen Embedded R1305G	3,109	NA
AMD Ryzen 3 3250C	3,044	NA
Snapdragon 7c @ 2.40 GHz	3,033	NA
AMD Athlon Silver 3050U	3,016	NA
AMD Athlon Silver 3050e	2,949	NA
AMD 3015e	2,877	NA
Intel Celeron 7305	2,665	$107.00*
Snapdragon 850 @ 2.96 GHz	2,649	NA
Intel Pentium Silver N6000 @ 1.10GHz	2,644	NA
Intel Celeron N4120 @ 1.10GHz	2,499	NA
AMD 3020e	2,491	NA
Intel Pentium 6405U @ 2.40GHz	2,379	$161.00*
Intel Celeron 6305 @ 1.80GHz	2,062	NA
Intel Celeron 6305UE @ 2.00GHz	1,876	NA
Snapdragon 835	1,784	NA
Intel Pentium 4425Y @ 1.70GHz	1,731	$161.00*
Intel Celeron N4020C @ 1.10GHz	1,600	NA
Intel Celeron N4020 @ 1.10GHz	1,563	NA
Intel Celeron 5205U @ 1.90GHz	1,448	$107.00*
Intel Celeron N4000C @ 1.10GHz	1,360	NA
Intel Pentium A 4417U @ 2.41GHz	1,290	NA
Intel Celeron 1020M @ 2.10GHz	1,278	NA
AMD R-272F APU	1,215	NA
Intel Pentium Dual T2390 @ 1.86GHz	745	NA
AMD E2-7015 APU	669	NA
AMD E2-7015	572	NA

Copyright © 2022 PassMark® Software