

# 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.



- Home **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 8th of November 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12900HX	34,641	\$606.00*
Intel Core i7-12800HX	34,215	\$457.00*
Intel Core i9-12950HX	31,797	\$590.00*
Intel Core i7-12850HX	31,049	\$428.00*
Intel Core i9-12900HK	29,231	\$635.00*
Intel Core i9-12900H	28,813	\$617.00*
Intel Core i7-12700H	26,770	\$457.00*
AMD Ryzen 9 6900HX	25,049	NA
Intel Core i7-12650H	24,672	\$457.00*
Intel Core i7-12800H	24,469	\$457.00*
AMD Ryzen 9 6900HS	23,972	NA
AMD Ryzen 7 6800H	23,836	NA
AMD Ryzen 9 PRO 6950HS	23,705	NA
AMD Ryzen 7 PRO 6850H	23,631	NA
Intel Core i5-12600HX	23,493	\$284.00*
Intel Core i9-11980HK @ 2.60GHz	23,431	\$583.00*
Intel Xeon W-11955M @ 2.60GHz	23,304	\$623.00*
AMD Ryzen 9 5980HX	23,301	NA
AMD Ryzen 9 PRO 6950H	23,248	NA
AMD Ryzen 7 6800HS Creator Edition	22,984	NA
AMD Ryzen 7 6800HS	22,979	NA
AMD Ryzen 9 5900HX	22,955	NA



Home CPU Benchmarks

Most Benchmarked

AMD vs Intel Market Share



Year on Year Performance

AMD Ryzen 9 5900HX		22,959	NA
Intel Core i5-12600H		22,704	\$311.00*
Apple M1 Max 10 Core 3200 MHz		22,259	NA
Intel Core i9-11950H @ 2.60GHz		22,164	\$556.00*
AMD Ryzen 9 5900HS		22,139	NA
Apple M1 Pro 10 Core 3200 MHz		22,022	NA
Intel Core i5-12500H		21,870	\$311.00*
AMD Ryzen 7 PRO 6860Z		21,824	NA
AMD Ryzen 9 5980HS		21,400	NA
AMD Ryzen 7 5800H		21,331	NA
Intel Core i7-11800H @ 2.30GHz		21,122	\$395.00*
Intel Core i7-11850H @ 2.50GHz		21,119	\$395.00*
Intel Core i9-11900H @ 2.50GHz		21,027	\$546.00*
AMD Ryzen 9 5900H		20,960	NA
AMD Ryzen 7 PRO 6850U		20,953	NA
AMD Ryzen 7 5800HS Creator Edition		20,948	NA
Intel Core i7-12700TE		20,712	\$344.00*
AMD Ryzen 7 5800HS		20,650	NA
AMD Ryzen 7 6800U		20,562	NA
AMD Ryzen 5 PRO 6650H		20,103	NA
AMD Ryzen 7 PRO 6850HS		20,062	NA
Intel Core i7-1280P		20,045	\$482.00*
AMD Ryzen 9 4900HS		19,321	NA
AMD Ryzen 9 4900H		19,211	NA
AMD Ryzen 5 6600HS Creator Edition		19,050	NA
AMD Ryzen 7 4800H		18,929	NA
AMD Ryzen 5 6600H		18,825	NA
AMD Ryzen 7 5800U		18,821	NA
AMD Ryzen 7 4800HS		18,772	NA
Intel Core i5-1250P		18,498	NA
Intel Xeon W-11855M @ 3.20GHz		18,476	\$450.00*
AMD Ryzen 7 5825U		18,225	NA
Intel Core i5-12450H		18,199	\$311.00*
AMD Ryzen 7 Extreme Edition		18,192	NA
Intel Core i7-1270P		17,806	NA
AMD Ryzen 7 4980U Microsoft Surface Edition		17,627	NA
Intel Core i5-1240P		17,607	NA
AMD Ryzen 5 6600U		17,473	NA
AMD Ryzen 7 PRO 5850U		17,370	NA
Apple M1 Pro 8 Core 3200 MHz		17,246	NA
AMD Ryzen 5 5600H		17,126	NA
Intel Core i7-1260P		17,066	NA
AMD Ryzen 7 4800U		17,019	NA
Intel Core i5-12500TE		16,865	\$205.00*
AMD Ryzen 7 PRO 5875U		16,650	NA
AMD Ryzen 5 PRO 6650U		16,446	NA
Intel Core i7-10700E @ 2.90GHz		16,418	\$330.00*
Intel Core i7-10700TE @ 2.00GHz		16,332	\$330.00*



Intel Core i5-11500H @ 2.90GHz		16,204	\$250.00*
Intel Core i9-10980HK @ 2.40GHz		16,042	\$583.00*

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AMD Ryzen 7 4850U Mobile		15,920	NA
Intel Core i7-11600H @ 2.90GHz		15,907	\$395.00*
AMD Ryzen 7 5700U		15,854	NA
Intel Core i5-11260H @ 2.60GHz		15,669	\$250.00*
Intel Core i9-10885H @ 2.40GHz		15,509	\$556.00*
Apple M2 8 Core 3500 MHz		15,398	NA
AMD Ryzen 7 PRO 4750U		15,330	NA
Intel Core i7-10875H @ 2.30GHz		15,317	\$450.00*
Intel Core i3-1220P		15,310	\$281.00*
AMD Ryzen 5 5560U		15,279	NA
AMD Ryzen 5 5600U		15,279	NA
AMD Ryzen 5 PRO 5650U		15,104	NA
Intel Core i7-10870H @ 2.20GHz		14,840	\$417.00*
AMD Ryzen 5 PRO 4400GE		14,795	NA
AMD Ryzen 5 4600HS		14,738	NA
Intel Core i9-10880H @ 2.30GHz		14,735	NA
AMD Ryzen 5 4600H		14,672	NA
AMD Ryzen 5 5625U		14,630	NA
AMD Ryzen 5 PRO 5675U		14,496	NA
Apple M1 8 Core 3200 MHz		14,380	NA
AMD Ryzen 7 4700U		13,529	NA
Intel Core i7-1265U		13,505	\$426.00*
Intel Core i7-1255U		13,503	\$426.00*
AMD Ryzen 5 4600U		13,452	NA
Intel Core i5-1235U		13,432	\$309.00*
AMD Ryzen 5 5500U		13,160	NA
Intel Core i7-1250U		13,081	\$426.00*
Intel Core i7-1260U		13,024	NA
Intel Core i3-12100TE		12,961	\$125.00*
Intel Xeon W-10855M @ 2.80GHz		12,908	\$450.00*
AMD Ryzen 5 PRO 4650U		12,827	NA
Intel Core i7-11375H @ 3.30GHz		12,238	\$482.00*
Intel Core i7-10750H @ 2.60GHz		12,204	NA
Intel Core i3-1210U		12,130	NA
Intel Core i7-10850H @ 2.70GHz		12,080	\$395.00*
AMD Ryzen 5 PRO 4500U		12,049	NA
Intel Core i7-11370H @ 3.30GHz		11,940	\$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz		11,783	NA
Intel Core i5-10500H @ 2.50GHz		11,558	\$250.00*
AMD Ryzen 3 5425U		11,544	NA
AMD Ryzen 3 PRO 5475U		11,339	NA
Intel Core i3-1215U		11,334	NA
Intel Core i7-9750HF @ 2.60GHz		11,132	\$395.00*
Intel Core i5-11300H @ 3.10GHz		11,100	\$309.00*
AMD Ryzen 3 PRO 5450U		11,064	NA
AMD Ryzen 5 4500U		11,050	NA

Intel Core i5-11320H @ 3.20GHz		11,024	\$309.00*
Intel Core i7-1195G7 @ 2.90GHz		10,988	\$426.00*

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Intel Core i7-1185G7 @ 3.00GHz		10,735	\$426.00*
Intel Core i5-1230U		10,583	\$309.00*
AMD Ryzen 3 5400U		10,535	NA
Intel Core i7-1165G7 @ 2.80GHz		10,489	\$426.00*
Intel Core i7-11390H @ 3.40GHz		10,483	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz		10,139	NA
Intel Core i5-1155G7 @ 2.50GHz		10,043	\$309.00*
AMD Ryzen 3 PRO 4450U		10,043	NA
Intel Core i5-1135G7 @ 2.40GHz		10,042	\$309.00*
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		9,934	NA
Intel Core i7-1068NG7 @ 2.30GHz		9,903	\$426.00*
AMD Ryzen 3 5300U		9,888	NA
Intel Core i5-1038NG7 @ 2.00GHz		9,513	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz		9,200	\$426.00*
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
Intel Core i5-9500TE @ 2.20GHz		9,028	\$192.00*
Intel Core i5-1130G7 @ 1.10GHz		8,956	\$309.00*
Intel Core i5-10400H @ 2.60GHz		8,880	\$250.00*
Intel Core i5-10300H @ 2.50GHz		8,643	\$250.00*
Intel Core i5-10200H @ 2.40GHz		8,364	\$250.00*
Intel Core i7-8569U @ 2.80GHz		8,327	\$431.00*
Intel Core i7-1180G7 @ 1.30GHz		8,304	\$426.00*
Intel Core i7-8557U @ 1.70GHz		8,192	\$431.00*
Intel Core i7-10810U @ 1.10GHz		8,077	\$443.00*
AMD Athlon Gold PRO 4150GE		8,070	NA
Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*
Intel Core i5-8260U @ 1.60GHz		7,851	\$439.99*
Intel Core i5-8257U @ 1.40GHz		7,650	\$320.00*
Intel Core i5-9300HF @ 2.40GHz		7,574	\$250.00*
AMD Ryzen 3 4300U		7,533	NA
Intel Core i3-10100T @ 3.00GHz		7,344	\$122.00*
AMD Ryzen 7 3700C		7,145	NA
Intel Core i7-10610U @ 1.80GHz		7,009	\$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 i5-10310U @ 1.70GHz		6,502	\$297.00*
Snapdragon 8cx Gen 2 @ 3.0 GHz		6,448	NA
Intel Core i3-1115G4 @ 3.00GHz		6,231	\$281.00*
Intel Core i7-8565UC @ 1.80GHz		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 i5-7440EQ @ 2.90GHz		5,711	\$250.00*



Intel Pentium Silver N6005 @ 2.00GHz		5,300	NA
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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		4,545	NA
Intel Core i3-9100TE @ 2.20GHz		4,501	\$122.00*
Intel Pentium 6805 @ 1.10GHz		4,448	\$161.00*
Snapdragon 8cx @ 2.84 GHz		4,326	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		4,087	\$281.00*
AMD Athlon Gold 3150U		4,011	NA
AMD Ryzen 3 3250U		3,916	NA
Intel Core i3-1000NG4 @ 1.10GHz		3,826	NA
Snapdragon 7c @ 1.96 GHz		3,628	NA
Snapdragon 7c Gen 2 @ 2.55 GHz		3,457	NA
Intel Core i5-L16G7 @ 1.40GHz		3,445	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz		3,404	NA
Intel Celeron N5100 @ 1.10GHz		3,364	NA
AMD Athlon Gold 3150C		3,292	NA
Intel Core i3-10110Y @ 1.00GHz		3,269	\$287.00*
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		3,032	NA
AMD Athlon Silver 3050e		2,949	NA
AMD A6-9400		2,717	NA
AMD 3015e		2,677	NA
Intel Celeron 7305		2,665	\$107.00*
Snapdragon 850 @ 2.96 GHz		2,649	NA
Intel Pentium Silver N5030 @ 1.10GHz		2,644	NA
Intel Celeron N4120 @ 1.10GHz		2,497	NA
AMD 3020e		2,451	NA
Intel Pentium 6405U @ 2.40GHz		2,373	\$161.00*
Intel Celeron 6305 @ 1.80GHz		2,062	NA
Intel Celeron 4305UE @ 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		1,561	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		1,109	NA

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