

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	CPU Mark	Price Performance	Sorted by Date
 High End High Mid Range Low Mid Range Low End	PassMark - CPU Mark Laptop & Portable CPU Performance Updated 23rd of February 2021		
 Best Value (On Market) Best Value XY Scatter Best Value (All time)	CPU	CPU Mark	Price (USD)
 New Desktop New Laptop	AMD Ryzen 9 5900HX	24,001	NA
	AMD Ryzen 9 5900HS	23,185	NA
	AMD Ryzen 7 5800	21,564	NA
	AMD Ryzen 7 5800U	19,887	NA
	AMD Ryzen 9 4900HS	19,831	NA
	AMD Ryzen 7 4800H	19,191	NA
	AMD Ryzen 9 4900H	19,061	NA
	AMD Ryzen 7 4800HS	19,017	NA
	AMD Ryzen 7 Extreme Edition	18,283	NA
	Intel Xeon W-10885M @ 2.40GHz	17,310	\$623.00*
 Single Thread Systems with Multiple CPUs Overclocked Power Performance CPU Mark by Socket Type Cross-Platform CPU Performance	AMD Ryzen 7 4800U	17,292	NA
	Intel Core i9-10980HK @ 2.40GHz	16,602	\$583.00*
	Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
	Intel Core i9-10885H @ 2.40GHz	15,980	\$556.00*
	Intel Core i7-10875H @ 2.30GHz	15,966	\$450.00*
	Intel Core i7-10870H @ 2.20GHz	15,890	\$417.00*
	Intel Xeon E-2286M @ 2.40GHz	15,702	\$1,618.06*
	AMD Ryzen 7 PRO 4750U	15,608	NA
	Intel Core i9-10880H @ 2.30GHz	15,390	NA
	Intel Core i9-9980HK @ 2.40GHz	15,117	\$583.00*
 CPU Mega List Search Model	Apple M1 8 Core 3200 MHz	14,991	NA
	AMD Ryzen 5 4600H	14,853	NA

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 CPU Benchmarks

Most
Benchmarked

 AMD vs Intel
Market Share

Year on Year

Performance

AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600U	13,948	NA
AMD Ryzen 7 4700U	13,793	NA
Intel Core i7-11370H @ 3.30GHz	13,353	\$426.00*
Intel Xeon W-10855M @ 2.80GHz	13,299	\$450.00*
AMD Ryzen 5 PRO 4650U	12,930	NA
Intel Core i7-10850H @ 2.70GHz	12,669	\$395.00*
Intel Core i7-10750H @ 2.60GHz	12,627	NA
Intel Core i7-8700B @ 3.20GHz	12,548	\$303.00*
Intel Xeon E-2276M @ 2.80GHz	12,216	\$450.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-9750HF @ 2.60GHz	11,698	\$395.00*
Intel Core i7-9850H @ 2.60GHz	11,646	\$1,305.76*
Intel Core i7-1185G7 @ 3.00GHz	11,489	\$426.00*
Intel Core i7-9750H @ 2.60GHz	11,338	\$2,159.00*
Intel Xeon E-2176M @ 2.70GHz	11,307	\$450.00*
AMD Ryzen 5 4500U	11,265	NA
Intel Xeon E-2186M @ 2.90GHz	11,062	\$623.00*
AMD Ryzen 3 PRO 4200GE	11,006	NA
Intel Core i7-1160G7 @ 1.20GHz	10,997	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,782	NA
Intel Core i9-8950HK @ 2.90GHz	10,773	\$583.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,689	\$426.00*
Intel Core i7-9700TE @ 1.80GHz	10,645	\$323.00*
Intel Core i7-8850H @ 2.60GHz	10,499	\$395.00*
Intel Core i7-1165G7 @ 2.80GHz	10,493	\$426.00*
Intel Core i3-1125G4 @ 2.00GHz	10,327	NA
Intel Core i5-1130G7 @ 1.10GHz	10,274	\$309.00*
Intel Core i7-8750H @ 2.20GHz	10,203	\$395.00*
AMD Ryzen 3 PRO 4450U	10,097	NA
Intel Core i7-10710U @ 1.10GHz	10,019	\$587.00
Intel Core i5-1135G7 @ 2.40GHz	9,926	\$309.00*
Intel Core i5-9400F @ 2.90GHz	9,578	\$147.74
Intel Core i5-1038NG7 @ 2.00GHz	9,554	\$320.00*
Intel Core i5-8500B @ 3.00GHz	9,538	\$192.00*
Intel Core i7-8569U @ 2.80GHz	9,251	\$431.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i7-10810U @ 1.10GHz	9,068	\$443.00*
Intel Core i5-10200H @ 2.40GHz	8,937	\$250.00*
Intel Core i7-8559U @ 2.70GHz	8,917	\$719.00
Intel Core i7-1065G7 @ 1.30GHz	8,889	\$426.00*
Intel Core i5-10400H @ 2.60GHz	8,863	\$250.00*
Intel Core i5-10300H @ 2.50GHz	8,827	\$250.00*
Intel Core i7-8809G @ 3.10GHz	8,770	NA
Intel Core i5-1035G7 @ 1.20GHz	8,391	\$320.00*
AMD Ryzen 7 3750H	8,389	NA

Intel Core i5-1035G4 @ 1.10GHz	8,353	\$309.00*
Intel Core i5-8259U @ 2.30GHz	8,314	\$596.00
Intel Core i7-8700G @ 2.80GHz	8,275	\$609.00
Intel Core i7-8706G @ 3.10GHz	8,136	NA
AMD Ryzen 5 3550H	8,112	NA
AMD Ryzen Embedded V1807B	8,095	NA
AMD Ryzen 5 3580U	8,001	NA
Intel Core i5-1035G1 @ 1.00GHz	7,963	\$297.00*
Intel Core i7-8709G @ 3.10GHz	7,921	NA
Intel Core i5-8279U @ 2.40GHz	7,917	\$320.00*
Intel Core i5-8257U @ 1.40GHz	7,917	\$320.00*
Intel Core i5-9300H @ 2.40GHz	7,914	\$250.00*
Intel Core i7-8705G @ 3.10GHz	7,851	\$1,535.11*
Intel Core i7-8557U @ 1.70GHz	7,820	\$431.00*
Intel Core i5-9300HF @ 2.40GHz	7,715	\$250.00*
AMD Ryzen 3 4300U	7,697	NA
AMD Ryzen 7 2800H	7,656	NA
Intel Core i5-8260U @ 1.60GHz	7,630	\$389.99
Intel Core i5-8300H @ 2.30GHz	7,587	\$250.00*
AMD Ryzen 5 2600H	7,537	NA
Intel Core i3-10100T @ 3.00GHz	7,518	\$122.00*
AMD Ryzen 7 PRO 3700U	7,440	NA
AMD Ryzen 7 3700U	7,349	NA
AMD Ryzen 5 3450U	7,255	NA
Intel Core i7-10610U @ 1.80GHz	7,245	\$409.00*
AMD Ryzen 7 3780U	7,194	NA
AMD Ryzen 5 3500U	7,181	NA
AMD Ryzen 7 PRO 2700U	7,166	NA
AMD Ryzen 3 PRO 3200GE	7,113	NA
Intel Core i5-8305G @ 2.80GHz	7,073	NA
Intel Core i7-7820EQ @ 3.00GHz	7,059	\$378.00*
Intel Core i7-5850EQ @ 2.70GHz	7,036	\$435.00*
Intel Core i7-10510U @ 1.80GHz	7,015	\$409.00*
Intel Core i5-10310U @ 1.70GHz	6,975	\$297.00*
AMD Ryzen 5 PRO 3500U	6,966	NA
AMD Ryzen Embedded V1605B	6,905	NA
Intel Core i3-8100B @ 3.60GHz	6,829	\$133.00*
Intel Xeon E3-1268L v5 @ 2.40GHz	6,600	\$456.54*
AMD Ryzen 5 PRO 2500U	6,589	NA
Intel Core i7-8665UE @ 1.70GHz	6,587	\$409.00*
Intel Core i7-8665U @ 1.90GHz	6,554	\$647.95
Intel Core i5-10210U @ 1.60GHz	6,527	\$539.00
Intel Core i7-8565U @ 1.80GHz	6,408	NA
Intel Core i3-1115G4 @ 3.00GHz	6,399	\$281.00*
Intel Core i5-8365U @ 1.60GHz	6,376	\$594.99*
Intel Core i7-1060NG7 @ 1.20GHz	6,234	NA
AMD Ryzen 3 PRO 2300U	6,206	NA
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-8265U @ 1.60GHz	6,158	\$749.00*

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AMD Ryzen 3 PRO 3300U	6,060	NA
Intel Core i5-8265U @ 1.60GHz	5,988	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel Core i3-9100TE @ 2.20GHz	5,705	\$122.00*
Intel Pentium Gold 7505 @ 2.00GHz	5,537	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,416	NA
Intel Core i5-8365UE @ 1.60GHz	5,408	\$297.00*
AMD Ryzen 3 2300U	5,396	NA
Intel Core i7-10510Y @ 1.20GHz	5,289	\$403.00*
Intel Core i3-1005G1 @ 1.20GHz	5,260	\$281.00*
Intel Core i5-10210Y @ 1.00GHz	4,918	NA
Intel Core i5-7442EQ @ 2.10GHz	4,834	\$250.00*
AMD Athlon Silver 3050GE	4,545	NA
AMD Athlon 220GE	4,538	\$210.24
Intel Core i5-6442EQ @ 1.90GHz	4,519	\$250.00*
Intel Core i3-1000NG4 @ 1.10GHz	4,460	NA
Intel Core i3-8121U @ 2.20GHz	4,366	\$397.00
Intel Core i3-8109U @ 3.00GHz	4,356	\$248.81
AMD Athlon Gold 3150U	4,233	NA
Intel Core i3-8145UE @ 2.20GHz	4,193	\$281.00*
AMD Ryzen 3 3250U	4,167	NA
Intel Core i5-7287U @ 3.30GHz	4,149	NA
Intel Core i3-10110U @ 2.10GHz	4,093	\$330.91
Intel Celeron J6413 @ 1.80GHz	4,075	NA
AMD Athlon 300U	4,051	NA
Microsoft ARM SQ1 @ 3.0 GHz	4,045	NA
AMD Ryzen 3 3200U	3,990	NA
AMD Ryzen Embedded R1505G	3,921	NA
Intel Core i7-6660U @ 2.40GHz	3,845	\$415.00*
AMD Ryzen Embedded V1202B	3,823	NA
Intel Core i3-8145U @ 2.10GHz	3,811	\$281.00*
Intel Core i3-8130U @ 2.20GHz	3,670	\$281.00*
AMD A8-7680	3,553	\$50.08*
Intel Core i3-10110Y @ 1.00GHz	3,504	\$287.00*
Intel Core i3-7167U @ 2.80GHz	3,489	NA
AMD Embedded R-Series RX-418GD Radeon R6	3,426	NA
Intel Core i5-L16G7 @ 1.40GHz	3,307	\$281.00*
AMD Ryzen Embedded R1305G	3,306	NA
AMD Athlon Silver 3050U	3,197	NA
AMD Athlon Silver 3050e	3,029	NA
Intel Core m3-8100Y @ 1.10GHz	3,016	\$281.00*
Intel Core i7-8500Y @ 1.50GHz	2,964	\$393.00*
Intel Core i5-8210Y @ 1.60GHz	2,917	NA
AMD A6-9400	2,717	NA
AMD 3015e	2,678	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,677	NA
AMD 3020e	2,652	NA
Intel Pentium Silver N5000 @	2,645	\$161.00*

1.10GHz	4,919	\$101.00
Intel Core i3-7020U @ 2.30GHz	2,585	\$281.00*
Intel Core i3-7020U @ 2.30GHz	2,585	\$281.00*
Intel Celeron N4100 @ 1.10GHz	2,475	\$107.00*
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
Intel Pentium 6405U @ 2.40GHz	2,342	\$161.00*
Intel Core i5-8200Y @ 1.30GHz	2,308	\$291.00*
Intel Pentium 5405U @ 2.30GHz	2,305	\$161.00*
Intel Celeron 6305 @ 1.80GHz	2,246	NA
Intel Pentium 4417U @ 2.30GHz	2,227	\$161.00*
Intel Pentium G4400TE @ 2.40GHz	2,190	\$64.00*
Intel Celeron G3900TE @ 2.30GHz	1,967	\$42.00*
Intel Celeron 4305UE @ 2.00GHz	1,950	NA
Intel Atom E3940 @ 1.60GHz	1,940	NA
AMD GX-420MC SOC	1,796	NA
AMD PRO A6-7350B	1,679	NA
Intel Pentium 4425Y @ 1.70GHz	1,654	\$161.00*
Intel Celeron N4020 @ 1.10GHz	1,636	NA
Intel Pentium 4415Y @ 1.60GHz	1,617	\$161.00*
Intel Celeron N4000C @ 1.10GHz	1,596	NA
AMD A9-9425	1,553	NA
Intel Celeron 3867U @ 1.80GHz	1,467	\$107.00*
Intel Celeron N4000 @ 1.10GHz	1,447	\$107.00*
Intel Celeron 5205U @ 1.90GHz	1,432	\$107.00*
AMD A6-9225	1,345	NA
Intel Atom T5700 @ 1.70GHz	1,326	NA
Intel Celeron 4205U @ 1.80GHz	1,300	\$107.00*
Intel Celeron 1020M @ 2.10GHz	1,275	NA
AMD A6-9220C	1,273	NA
Intel Pentium A1020 @ 2.41GHz	1,265	NA
AMD A4-9125	1,229	NA
Intel Celeron 3965Y @ 1.50GHz	1,220	\$107.00*
AMD R-272F APU	1,215	NA
AMD A9-9420e	1,118	NA
Intel Celeron 2002E @ 1.50GHz	1,091	\$86.00*
Intel Atom C2538 @ 2.40GHz	1,086	\$104.00*
AMD A6-9200	1,062	NA
AMD PRO A4-4350B	1,046	NA
AMD A4-9120e	908	NA
AMD A4-9120C	785	NA
AMD G-T40R	120	NA

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