

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.

CPU Mark	Price Performance	Sorted by Date
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High Mid Range

Low Mid Range

Low End

Best Value XY Scatter

Best Value (All time)

[New Laptop](#)

Systems with Multiple CPUs

Overclocked

Power

Performance

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 26th of August 2020

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 4900HS	19,820	NA
AMD Ryzen 9 4900H	19,515	NA
AMD Ryzen 7 4800H	19,408	NA
AMD Ryzen 7 4800HS	18,850	NA
AMD Ryzen 7 Extreme Edition	18,284	NA
AMD Ryzen 7 4800U	17,582	NA
Intel Core i9-10980HK @ 2.40GHz	17,240	\$583.00*
Intel Xeon W-10885M @ 2.40GHz	17,213	\$623.00*
Intel Core i9-10885H @ 2.40GHz	16,210	\$556.00*
Intel Core i7-10875H @ 2.30GHz	15,868	\$450.00*
AMD Ryzen 7 PRO 4750U	15,616	NA
Intel Xeon E-2286M @ 2.40GHz	15,432	\$623.00*
Intel Core i9-9980HK @ 2.40GHz	15,408	\$583.00*
AMD Ryzen 5 4600H	15,009	NA
AMD Ryzen 5 4600HS	14,999	NA

CPU Mark by Socket Type			
	AMD Ryzen 5 4600U	14,402	NA
	Intel Core i9-9880H @ 2.30GHz	14,112	\$556.00*
CPU Benchmarks	Intel Xeon W-10855M @ 2.80GHz	13,964	\$450.00*
	AMD Ryzen 7 4700U	13,862	NA
CPU Mega List	AMD Ryzen 5 PRO 4650U	13,433	NA
Search Model	Intel Core i7-1165G7 @ 2.80GHz	13,372	NA
Compare ⁰	Intel Core i7-10850H @ 2.70GHz	13,112	\$395.00*
	Intel Core i7-10750H @ 2.60GHz	12,723	NA
Common	Intel Xeon E-2276M @ 2.80GHz	12,249	\$450.00*
Most Benchmarked	AMD Ryzen 5 PRO 4500U	12,049	NA
	Intel Core i7-8700B @ 3.20GHz	11,992	\$303.00*
	Intel Core i7-9750HF @ 2.60GHz	11,922	\$395.00*
AMD vs Intel Market Share	Intel Xeon E-2186M @ 2.90GHz	11,616	\$623.00*
Year on Year Performance	Intel Core i7-9850H @ 2.60GHz	11,497	\$395.00*
	Intel Core i7-9750H @ 2.60GHz	11,425	\$395.00*
	AMD Ryzen 5 4500U	11,197	NA
	Intel Xeon E-2176M @ 2.70GHz	10,851	\$450.00*
	Intel Core i9-8950HK @ 2.90GHz	10,727	\$583.00*
	Intel Core i7-1068NG7 @ 2.30GHz	10,689	\$426.00*
	Intel Core i7-9700TE @ 1.80GHz	10,680	\$323.00*
	Intel Core i7-8850H @ 2.60GHz	10,549	\$395.00*
	Intel Core i7-8750H @ 2.20GHz	10,217	\$395.00*
	AMD Ryzen 3 PRO 4450U	10,037	NA
	Intel Core i7-10710U @ 1.10GHz	10,014	\$598.94
	Intel Core i5-1038NG7 @ 2.00GHz	10,008	\$320.00*
	Intel Core i5-9400F @ 2.90GHz	9,597	\$147.99
	Intel Core i5-8500B @ 3.00GHz	9,538	\$192.00*
	Intel Core i7-10810U @ 1.10GHz	9,314	\$443.00*
	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 i7-1065G7 @ 1.30GHz	8,992	NA
	Intel Core i5-10400H @ 2.60GHz	8,911	\$250.00*
	Intel Core i5-10300H @ 2.50GHz	8,876	\$250.00*
	Intel Core i7-8559U @ 2.70GHz	8,840	\$561.99
	Intel Core i7-8809G @ 3.10GHz	8,774	NA
	Intel Core i5-1035G7 @ 1.20GHz	8,660	\$320.00*
	AMD Ryzen 7 3750H	8,438	NA
	Intel Core i5-8259U @ 2.30GHz	8,380	\$595.00
	Intel Core i5-9400H @ 2.50GHz	8,295	\$250.00*
	Intel Core i5-1035G4 @ 1.10GHz	8,230	\$309.00*
	Intel Core i5-8257U @ 1.40GHz	8,191	\$320.00*
	AMD Ryzen 5 3550H	8,147	NA

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CPU Benchmarks

Intel Core i5-8400H @ 2.50GHz	8,146	\$250.00*
Intel Core i7-8706G @ 3.10GHz	8,136	NA
AMD Ryzen 5 3580U	8,065	NA
Intel Core i5-9300H @ 2.40GHz	8,030	\$250.00*
Intel Core i5-1035G1 @ 1.00GHz	7,985	\$297.00*
Intel Core i7-1185G7 @ 3.00GHz	7,979	NA
Intel Core i7-8709G @ 3.10GHz	7,921	NA
Intel Core i5-8279U @ 2.40GHz	7,917	\$320.00*
Intel Core i7-8705G @ 3.10GHz	7,910	\$1,548.81*
Intel Core i7-8557U @ 1.70GHz	7,820	\$431.00*
Intel Core i5-8260U @ 1.60GHz	7,776	\$297.00*
AMD Ryzen 3 4300U	7,743	NA
Intel Core i5-9300HF @ 2.40GHz	7,700	\$250.00*
AMD Ryzen 7 2800H	7,656	NA
Intel Core i3-10100T @ 3.00GHz	7,589	\$122.00*
Intel Core i5-8300H @ 2.30GHz	7,578	\$250.00*
AMD Ryzen 5 2600H	7,537	NA
Intel Core i7-10610U @ 1.80GHz	7,413	\$409.00*
AMD Ryzen 7 3700U	7,401	NA
AMD Ryzen 7 PRO 3700U	7,352	NA
AMD Ryzen 3 PRO 3200GE	7,295	NA
AMD Ryzen 7 PRO 2700U	7,242	NA
Intel Core i5-8305G @ 2.80GHz	7,231	NA
AMD Ryzen 7 3780U	7,203	NA
AMD Ryzen 5 3500U	7,133	NA
Intel Core i7-10510U @ 1.80GHz	7,096	\$409.00*
Intel Core i7-7820EQ @ 3.00GHz	7,059	\$378.00*
Intel Core i7-5850EQ @ 2.70GHz	7,036	\$435.00*
AMD Ryzen 5 PRO 3500U	6,962	NA
AMD Ryzen Embedded V1605B	6,857	NA
Intel Core i3-8100B @ 3.60GHz	6,829	\$133.00*
Intel Core i5-10310U @ 1.70GHz	6,717	\$297.00*
AMD Ryzen 5 2500U	6,626	NA
Intel Core i7-8665U @ 1.90GHz	6,624	\$409.00*
Intel Core i7-8650U @ 1.90GHz	6,608	\$1,049.00*
Intel Xeon E3-1268L v5 @ 2.40GHz	6,600	\$456.54*
Intel Core i7-8565U @ 1.80GHz	6,596	NA
Intel Core i7-8665UE @ 1.70GHz	6,587	\$409.00*
AMD Ryzen 7 2700U	6,522	NA
Intel Core i5-10210U @ 1.60GHz	6,452	\$549.00
Intel Core i5-8365U @ 1.60GHz	6,447	\$629.95
Intel Core i5-8350U @ 1.70GHz	6,367	\$297.00*
AMD Ryzen 5 PRO 2500U	6,354	NA



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Intel Core i5-8265U @ 1.60GHz	6,305	\$297.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,234	NA
AMD Ryzen 3 PRO 3300U	6,007	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 PRO 2300U	5,873	NA
AMD Ryzen 3 3300U	5,818	NA
Intel Core i7-10510Y @ 1.20GHz	5,523	\$403.00*
Intel Core i5-1030NG7 @ 1.10GHz	5,331	NA
AMD Ryzen 3 2300U	5,301	NA
Intel Core i3-1005G1 @ 1.20GHz	5,275	\$281.00*
Intel Core i5-8365UE @ 1.60GHz	5,243	\$297.00*
Intel Core i5-10210Y @ 1.00GHz	4,895	NA
Intel Core i5-7442EQ @ 2.10GHz	4,834	\$250.00*
Intel Core i5-6442EQ @ 1.90GHz	4,519	\$250.00*
AMD Athlon 220GE	4,509	\$79.64
AMD Ryzen 3 3250U	4,416	NA
Intel Core i3-8109U @ 3.00GHz	4,374	\$479.99
Intel Core i3-8121U @ 2.20GHz	4,340	\$350.00
AMD Ryzen Embedded R1505G	4,280	NA
AMD Athlon Gold 3150U	4,194	NA
Intel Core i3-8145UE @ 2.20GHz	4,181	\$281.00*
Intel Core i5-7287U @ 3.30GHz	4,149	NA
AMD Ryzen 3 3200U	4,137	NA
Intel Core i3-10110U @ 2.10GHz	4,123	\$439.95
AMD Athlon 300U	4,121	NA
Intel Core i3-1000NG4 @ 1.10GHz	4,035	NA
AMD Ryzen Embedded V1202B	3,734	NA
Intel Core i3-8145U @ 2.10GHz	3,712	\$281.00*
Intel Core i3-10110Y @ 1.00GHz	3,639	\$287.00*
AMD A8-7680	3,620	\$50.08
Intel Core i3-8130U @ 2.20GHz	3,616	\$281.00*
AMD Ryzen 3 2200U	3,600	NA
Intel Core i3-7167U @ 2.80GHz	3,489	NA
Intel Core i3-7100H @ 3.00GHz	3,460	\$225.00*
AMD Embedded R-Series RX-418GD Radeon R6	3,426	NA
Intel Core i5-6287U @ 3.10GHz	3,378	\$304.00*
AMD Athlon Silver 3050U	3,227	NA
Intel Core i7-8500Y @ 1.50GHz	3,189	\$393.00*
Intel Core i5-8200Y @ 1.30GHz	3,161	\$291.00*
Intel Core m3-8100Y @ 1.10GHz	3,057	\$281.00*
Intel Core i5-L16G7 @ 1.40GHz	3,049	\$281.00*
Intel Core i3-7130U @ 2.70GHz	2,976	\$459.99*
Intel Core i5-8210Y @ 1.60GHz	2,905	NA



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AMD 3020e	2,723	NA
AMD A6-9400	2,717	NA
Intel Pentium Silver N5000 @ 1.10GHz	2,653	\$161.00*
AMD PRO A10-9700B	2,626	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,564	NA
Intel Core i3-7020U @ 2.30GHz	2,547	\$281.00*
Intel Core i3-7102E @ 2.10GHz	2,521	\$225.00*
Intel Celeron N4100 @ 1.10GHz	2,497	\$107.00*
Intel Celeron N4120 @ 1.10GHz	2,467	NA
Intel Pentium 6405U @ 2.40GHz	2,430	\$161.00*
AMD PRO A12-8830B	2,392	NA
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
Intel Pentium 5405U @ 2.30GHz	2,338	\$161.00*
Intel Pentium 4417U @ 2.30GHz	2,267	\$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
Intel Core i5-4422E @ 1.80GHz	1,907	\$266.00*
Intel Core i5-4230U @ 1.90GHz	1,853	NA
AMD GX-420MC SOC	1,796	NA
Intel Celeron 3965U @ 2.20GHz	1,786	\$107.00*
Intel Celeron N4020 @ 1.10GHz	1,719	NA
AMD PRO A6-7350B	1,679	NA
Intel Pentium 4415Y @ 1.60GHz	1,649	\$161.00*
Intel Celeron N4000C @ 1.10GHz	1,559	NA
AMD A9-9425	1,552	NA
AMD Embedded G-Series GX-420GI Radeon R7E	1,527	NA
Intel Celeron N4000 @ 1.10GHz	1,468	\$107.00*
Intel Celeron 3867U @ 1.80GHz	1,467	\$107.00*
Intel Pentium 4425Y @ 1.70GHz	1,458	\$161.00*
Intel Celeron 5205U @ 1.90GHz	1,451	\$107.00*
Intel Pentium 4410Y @ 1.50GHz	1,387	\$161.00*
AMD A6-9220	1,379	NA
Intel Atom C2538 @ 2.40GHz	1,356	\$104.00*
AMD A6-9225	1,338	NA
Intel Atom T5700 @ 1.70GHz	1,326	NA
AMD A4-9125	1,277	NA
Intel Celeron 1020M @ 2.10GHz	1,275	NA
AMD Embedded G-Series GX-224IJ Radeon R4E	1,271	NA
Intel Pentium A1020 @ 2.41GHz	1,265	NA
AMD A6-9220C	1,258	NA



CPU Benchmarks ▼

AMD A4-9120	1,255	NA
Intel Celeron 4205U @ 1.80GHz	1,251	\$107.00*
AMD R-272F APU	1,215	NA
AMD A9-9420e	1,171	NA
Intel Celeron 2002E @ 1.50GHz	1,091	\$86.00*
AMD A6-9200	1,076	NA
AMD Embedded G-Series GX-215JJ Radeon R2E	1,071	NA
AMD PRO A4-4350B	1,064	NA
AMD A6-9220e	1,031	NA
AMD A4-9120C	937	NA
AMD A4-9120e	831	NA
AMD G-T40R	120	NA
VIA Eden 1000MHz	80	NA

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