

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

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](#)

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 11th of August 2021

CPU	CPU Mark	Price (USD)
Intel Xeon W-11955M @ 2.60GHz	24,410	\$623.00*
Intel Core i9-11900H @ 2.50GHz	23,358	\$546.00*
Intel Core i9-11980HK @ 2.60GHz	23,341	\$583.00*
Intel Core i9-11950H @ 2.60GHz	23,317	\$556.00*
AMD Ryzen 9 5900HX	23,194	NA
AMD Ryzen 9 5900HS	22,783	NA
AMD Ryzen 9 5980HS	22,691	NA
AMD Ryzen 7 5800H	21,869	NA
Intel Core i7-11800H @ 2.30GHz	21,725	\$395.00*
Intel Core i7-11850H @ 2.50GHz	21,121	\$395.00*
AMD Ryzen 7 5800HS	21,094	NA
AMD Ryzen 7 5800U	19,734	NA
AMD Ryzen 9 4900HS	19,610	NA
AMD Ryzen 7 PRO 5850U	19,604	NA
AMD Ryzen 7 4800H	19,218	NA
Intel Xeon W-11855M @ 3.20GHz	19,164	\$450.00*
AMD Ryzen 9 4900H	19,035	NA
AMD Ryzen 7 4800HS	18,979	NA
AMD Ryzen 7 Extreme Edition	18,187	NA
AMD Ryzen 5 5600H	17,820	NA
Intel Core i5-11500H @ 2.90GHz	17,472	\$250.00*
AMD Ryzen 7 4800U	17,277	NA
AMD Ryzen 5 PRO 5650U	16,850	NA

 Compare


Common

Most Benchmarked



AMD vs Intel Market Share

Year on Year Performance

AMD Ryzen 7 PRO 5800U	16,538	NA
Intel Core i9-10980HK @ 2.40GHz	16,538	\$583.00*
AMD Ryzen 7 5700U	16,364	NA
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Xeon W-10885M @ 2.40GHz	16,094	\$623.00*
AMD Ryzen 5 5600U	15,998	NA
Intel Core i9-10885H @ 2.40GHz	15,878	\$556.00*
Intel Xeon E-2286M @ 2.40GHz	15,747	\$1,373.18*
Intel Core i7-10875H @ 2.30GHz	15,683	\$450.00*
AMD Ryzen 7 PRO 4750U	15,545	NA
Intel Core i7-10870H @ 2.20GHz	15,400	\$417.00*
Intel Core i9-10880H @ 2.30GHz	15,390	NA
Apple M1 8 Core 3200 MHz	15,143	NA
Intel Core i9-9980HK @ 2.40GHz	14,941	\$583.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600H	14,792	NA
AMD Ryzen 5 4600HS	14,652	NA
Intel Core i5-11400H @ 2.70GHz	14,652	\$250.00*
Intel Core i9-9880H @ 2.30GHz	14,027	\$556.00*
AMD Ryzen 5 4600U	13,766	NA
AMD Ryzen 7 4700U	13,760	NA
AMD Ryzen 5 5500U	13,462	NA
AMD Ryzen 5 PRO 4650U	12,982	NA
Intel Xeon W-10855M @ 2.80GHz	12,943	\$450.00*
Intel Core i7-8700B @ 3.20GHz	12,754	\$303.00*
Intel Core i7-11375H @ 3.30GHz	12,610	\$482.00*
Intel Core i7-10750H @ 2.60GHz	12,536	NA
Intel Core i7-11370H @ 3.30GHz	12,498	\$426.00*
Intel Xeon E-2276M @ 2.80GHz	12,278	\$450.00*
Intel Core i7-10850H @ 2.70GHz	12,241	\$395.00*
Intel Core i5-10500H @ 2.50GHz	12,157	\$250.00*
AMD Ryzen 3 5400U	12,110	NA
AMD Ryzen 5 PRO 4500U	12,049	NA
AMD Ryzen 3 PRO 5450U	12,047	NA
Intel Core i7-1185G7E @ 2.80GHz	11,645	\$431.00*
Intel Core i7-9850H @ 2.60GHz	11,639	\$1,305.76*
Intel Core i7-9750HF @ 2.60GHz	11,591	\$395.00*
Intel Core i7-9750H @ 2.60GHz	11,297	\$960.00*
AMD Ryzen 5 4500U	11,219	NA
Intel Core i5-11300H @ 3.10GHz	11,182	\$309.00*
AMD Ryzen 3 PRO 4200GE	11,006	NA
Intel Core i7-1160G7 @ 1.20GHz	10,981	\$426.00*
Intel Core i7-1185G7 @ 3.00GHz	10,942	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,866	NA
Intel Core i7-9700TE @ 1.80GHz	10,722	\$323.00*
Intel Core i7-1165G7 @ 2.80GHz	10,599	\$426.00*
Intel Core i5-1130G7 @ 1.10GHz	10,483	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,436	\$426.00*
AMD Ryzen 3 5300U	10,186	NA
Intel Core i7-10710U @ 1.10GHz	10,103	\$644.99*

Intel Core i5-1135G7 @ 2.40GHz	10,058	\$309.00*
AMD Ryzen 3 PRO 4450U	9,955	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,712	\$320.00*
Intel Core i5-8500B @ 3.00GHz	9,576	\$192.00*
Intel Core i5-9400F @ 2.90GHz	9,548	\$247.50
Intel Core i3-1125G4 @ 2.00GHz	9,397	NA
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i5-10400H @ 2.60GHz	8,946	\$250.00*
Intel Core i7-10810U @ 1.10GHz	8,923	\$443.00*
Intel Core i7-1065G7 @ 1.30GHz	8,847	\$426.00*
Intel Core i5-10300H @ 2.50GHz	8,780	\$250.00*
Intel Core i7-8569U @ 2.80GHz	8,717	\$431.00*
Intel Core i5-10200H @ 2.40GHz	8,473	\$250.00*
Intel Core i7-8557U @ 1.70GHz	8,429	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz	8,426	\$320.00*
AMD Ryzen 7 3750H	8,361	NA
AMD Ryzen Embedded V1807B	8,359	NA
Intel Core i5-1035G4 @ 1.10GHz	8,276	\$309.00*
Intel Core i5-9400H @ 2.50GHz	8,267	\$250.00*
AMD Ryzen 3 4300U	8,086	NA
AMD Ryzen 5 3550H	8,076	NA
Intel Core i5-8279U @ 2.40GHz	8,075	\$320.00*
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
AMD Ryzen 5 3500U	7,943	NA
Intel Core i7-8709G @ 3.10GHz	7,921	NA
Intel Core i5-1035G1 @ 1.00GHz	7,884	\$297.00*
Intel Core i5-8260U @ 1.60GHz	7,869	\$439.99*
Intel Core i5-9300H @ 2.40GHz	7,855	\$250.00*
AMD Ryzen 5 3580U	7,833	NA
Intel Core i5-8257U @ 1.40GHz	7,674	\$320.00*
AMD Ryzen 7 2800H	7,656	NA
Intel Core i5-9300HF @ 2.40GHz	7,633	\$250.00*
AMD Ryzen 5 2600H	7,537	NA
Intel Core i3-10100T @ 3.00GHz	7,469	\$122.00*
Intel Core i7-7820EQ @ 3.00GHz	7,453	\$378.00*
AMD Ryzen 7 3780U	7,386	NA
AMD Ryzen 7 PRO 3700U	7,367	NA
AMD Ryzen 7 3700U	7,356	NA
Intel Core i7-1060NG7 @ 1.20GHz	7,316	NA
Intel Core i7-10610U @ 1.80GHz	7,176	\$409.00*
AMD Ryzen 3 PRO 3200GE	7,071	NA
Intel Core i7-5850EQ @ 2.70GHz	7,036	\$435.00*
AMD Ryzen 5 PRO 3500U	7,017	NA
AMD Ryzen 5 3450U	7,002	NA
Intel Core i5-10310U @ 1.70GHz	7,000	\$297.00*
Intel Core i7-10510U @ 1.80GHz	6,924	\$409.00*
AMD Ryzen Embedded V1605B	6,849	NA
Intel Core i7-8665UE @ 1.70GHz	6,587	\$409.00*
Intel Core i7-8665U @ 1.90GHz	6,543	\$704.49*

Intel Core i3-1115G4 @ 3.00GHz	6,525	\$281.00*
Intel Core i5-10210U @ 1.60GHz	6,471	\$702.62*
Intel Core i5-8365U @ 1.60GHz	6,410	\$539.07*
Intel Core i7-8565U @ 1.80GHz	6,375	\$615.00*
AMD Ryzen 3 3350U	6,351	NA
Intel Core i3-8100B @ 3.60GHz	6,226	\$133.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-8265U @ 1.60GHz	6,126	\$499.88*
Intel Core i5-1030NG7 @ 1.10GHz	6,055	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 PRO 3300U	5,963	NA
AMD Ryzen 3 3300U	5,870	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel Pentium Gold 7505 @ 2.00GHz	5,420	NA
Intel Core i5-8365UE @ 1.60GHz	5,408	\$297.00*
Intel Core i7-10510Y @ 1.20GHz	5,289	\$403.00*
Intel Core i3-1005G1 @ 1.20GHz	5,273	\$281.00*
Intel Core i5-10210Y @ 1.00GHz	4,836	NA
Intel Core i5-7442EQ @ 2.10GHz	4,834	\$250.00*
Intel Pentium 6805 @ 1.10GHz	4,600	\$161.00*
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 i3-9100TE @ 2.20GHz	4,501	\$122.00*
AMD Athlon Gold 3150U	4,386	NA
Intel Core i3-8121U @ 2.20GHz	4,369	\$290.00*
Intel Core i3-8109U @ 3.00GHz	4,326	\$499.99*
Intel Core i3-8145UE @ 2.20GHz	4,133	\$281.00*
AMD Ryzen 3 3250U	4,130	NA
Intel Core i3-10110U @ 2.10GHz	4,062	\$434.17*
Intel Core i3-1000NG4 @ 1.10GHz	4,046	NA
AMD Athlon 300U	4,006	NA
AMD Ryzen Embedded R1505G	3,966	NA
AMD Ryzen 3 3200U	3,964	NA
Microsoft ARM SQ1 @ 3.0 GHz	3,953	NA
Intel Core i3-8145U @ 2.10GHz	3,827	\$281.00*
AMD Ryzen Embedded V1202B	3,823	NA
AMD A8-7680	3,568	\$50.08*
Intel Core i3-7167U @ 2.80GHz	3,489	NA
Intel Core i3-10110Y @ 1.00GHz	3,444	\$287.00*
Intel Core i5-L16G7 @ 1.40GHz	3,390	\$281.00*
AMD Ryzen Embedded R1305G	3,329	NA
AMD Athlon Silver 3050U	3,193	NA
Intel Core m3-8100Y @ 1.10GHz	3,005	\$281.00*
AMD Athlon Silver 3050e	2,897	NA
Intel Core i7-8500Y @ 1.50GHz	2,888	\$393.00*
Intel Core i5-8210Y @ 1.60GHz	2,867	NA
AMD A6-9400	2,717	NA
Intel Celeron N5100 @ 1.10GHz	2,681	NA
AMD 3015e	2,678	NA

Intel Pentium Silver N5030 @ 1.10GHz	2,642	NA
AMD 3020e	2,614	NA
Intel Core i3-7102E @ 2.10GHz	2,521	\$225.00*
Intel Celeron N4120 @ 1.10GHz	2,511	NA
Intel Pentium 6405U @ 2.40GHz	2,359	\$161.00*
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
Intel Core i5-8200Y @ 1.30GHz	2,308	\$291.00*
Intel Pentium 5405U @ 2.30GHz	2,293	\$161.00*
Intel Pentium 4417U @ 2.30GHz	2,247	\$161.00*
Intel Celeron 6305 @ 1.80GHz	2,246	NA
Intel Celeron 4305UE @ 2.00GHz	1,950	NA
AMD GX-420MC SOC	1,796	NA
Intel Pentium 4425Y @ 1.70GHz	1,688	\$161.00*
Intel Celeron N4020 @ 1.10GHz	1,611	NA
Intel Celeron N4000C @ 1.10GHz	1,611	NA
Intel Celeron 3867U @ 1.80GHz	1,467	\$107.00*
Intel Celeron 5205U @ 1.90GHz	1,417	\$107.00*
AMD A6-9225	1,333	NA
Intel Celeron 4205U @ 1.80GHz	1,330	\$107.00*
Intel Celeron 1020M @ 2.10GHz	1,275	NA
Intel Pentium A1020 @ 2.41GHz	1,265	NA
AMD R-272F APU	1,215	NA
AMD A4-9125	1,214	NA
AMD A6-9220C	1,163	NA
AMD PRO A4-4350B	1,093	NA
Intel Celeron 2002E @ 1.50GHz	1,091	\$86.00*
AMD A4-9120e	916	NA
AMD A4-9120C	815	NA
AMD G-T40R	120	NA

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Software

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