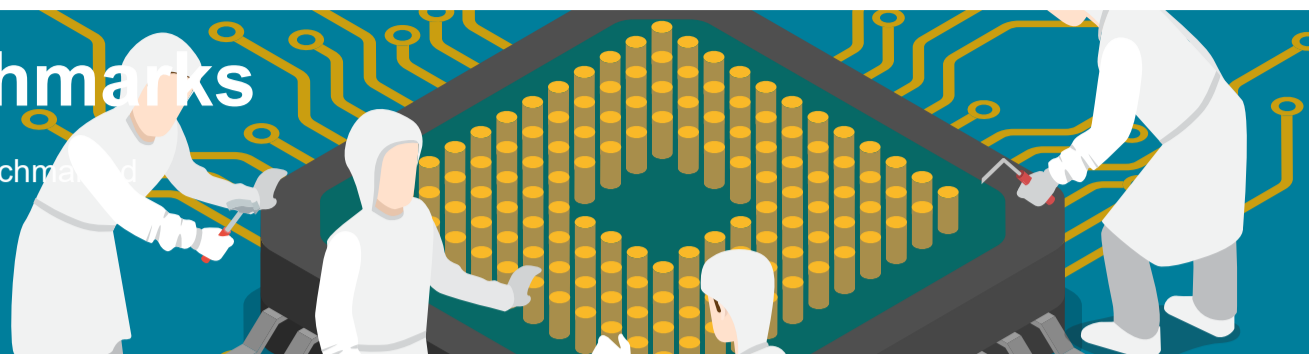


CPU Benchmarks

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

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 9th of June 2020

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 4900HS	19,739	NA
AMD Ryzen 7 4800HS	19,236	NA
AMD Ryzen 7 4800H	19,081	NA
AMD Ryzen 7 4800U	17,453	NA
Intel Core i9-10980HK @ 2.40GHz	17,284	\$583.00*
AMD Ryzen 7 PRO 4750U	16,250	NA
Intel Xeon E-2286M @ 2.40GHz	15,948	\$623.00*
Intel Core i7-10875H @ 2.30GHz	15,659	\$450.00*
Intel Core i9-9980HK @ 2.40GHz	15,644	\$583.00*
AMD Ryzen 5 4600H	14,829	NA
AMD Ryzen 5 4600U	14,566	NA
Intel Core i9-9880H @ 2.30GHz	13,849	\$556.00*
AMD Ryzen 7 4700U	13,406	NA
Intel Core i7-10750H @ 2.60GHz	12,877	NA
Intel Core i7-9750HF @ 2.60GHz	12,305	\$395.00*
Intel Core i7-8700B @ 3.20GHz	12,128	\$303.00*
Intel Xeon E-2276M @ 2.80GHz	12,066	\$450.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-9750H @ 2.60GHz	11,499	\$395.00*
Intel Core i7-9850H @ 2.60GHz	11,402	\$395.00*
Intel Core i9-8950HK @ 2.90GHz	11,143	\$583.00*
AMD Ryzen 5 4500U	10,994	NA
Intel Core i7-10850H @ 2.70GHz	10,971	\$395.00*



Compare

Intel Core i7-10650H @ 2.70GHz		10,971	\$399.00
Intel Core i7-9700TE @ 1.80GHz		10,954	\$323.00*

Home CPU Benchmarks

most
Benchmarked





AMD vs Intel
Market Share

Year on Year
Performance

Intel Core i7-8850H @ 2.60GHz		10,545	\$395.00*
Intel Core i7-1068NG7 @ 2.30GHz		10,397	\$426.00*
Intel Core i7-10710U @ 1.10GHz		10,364	\$598.95
Intel Core i7-8750H @ 2.20GHz		10,240	\$395.00*
Intel Core i5-1038NG7 @ 2.00GHz		9,823	\$320.00*
Intel Core i5-8500B @ 3.00GHz		9,697	\$192.00*
Intel Core i5-9400F @ 2.90GHz		9,582	\$169.49
Intel Core i7-9850HL @ 1.90GHz		9,216	\$395.00*
Intel Core i5-9500TE @ 2.20GHz		9,212	\$192.00*
Intel Core i7-1065G7 @ 1.30GHz		9,016	NA
Intel Core i5-1035G7 @ 1.20GHz		8,835	\$320.00*
Intel Core i7-8809G @ 3.10GHz		8,732	NA
Intel Core i7-8559U @ 2.70GHz		8,700	\$797.99*
Intel Core i5-10300H @ 2.50GHz		8,522	NA
Intel Core i5-9400H @ 2.50GHz		8,493	\$250.00*
AMD Ryzen 7 3750H		8,446	NA
Intel Core i5-8259U @ 2.30GHz		8,401	\$658.00
Intel Core i5-8257U @ 1.40GHz		8,246	\$320.00*
Intel Core i5-1035G4 @ 1.10GHz		8,198	\$309.00*
Intel Core i7-8706G @ 3.10GHz		8,168	NA
AMD Ryzen 5 3550H		8,131	NA
Intel Core i5-8400H @ 2.50GHz		8,121	\$250.00*
AMD Ryzen 5 3580U		8,081	NA
Intel Core i5-9300H @ 2.40GHz		8,074	\$250.00*
AMD Ryzen 3 4300U		8,046	NA
Intel Core i5-1035G1 @ 1.00GHz		7,987	\$297.00*
Intel Core i5-8279U @ 2.40GHz		7,983	\$320.00*
Intel Core i7-8557U @ 1.70GHz		7,885	\$431.00*
Intel Core i7-8709G @ 3.10GHz		7,794	NA
Intel Core i5-8260U @ 1.60GHz		7,776	\$297.00*
AMD Ryzen Embedded V1807B		7,764	NA
Intel Core i5-9300HF @ 2.40GHz		7,686	\$250.00*
Intel Core i5-8300H @ 2.30GHz		7,584	\$250.00*
Intel Core i7-8705G @ 3.10GHz		7,551	\$1,408.75*
Intel Core i7-10810U @ 1.10GHz		7,500	\$443.00*
AMD Ryzen 7 2800H		7,432	NA
AMD Ryzen 7 3700U		7,402	NA
Intel Core i7-10610U @ 1.80GHz		7,355	\$409.00*
AMD Ryzen 7 PRO 3700U		7,353	NA
AMD Ryzen 7 PRO 2700U		7,351	NA
Intel Core i7-10510U @ 1.80GHz		7,341	\$409.00*
AMD Ryzen 5 2600H		7,317	NA
AMD Ryzen 3 PRO 3200GE		7,297	NA
AMD Ryzen 5 PRO 3500U		7,247	NA
AMD Ryzen 7 3780U		7,185	NA
AMD Ryzen 5 3500U		7,170	NA

Intel Core i7-7820EQ @ 3.00GHz		7,087	\$378.00*
Intel Core i5-8305G @ 2.80GHz		6,975	NA
Intel Core i7-5850EQ @ 2.70GHz		6,829	\$435.00*
AMD Ryzen 5 PRO 2500U		6,821	NA
Intel Xeon E3-1268L v5 @ 2.40GHz		6,680	\$456.54*
Intel Core i7-8665U @ 1.90GHz		6,650	\$409.00*
Intel Core i7-8565U @ 1.80GHz		6,645	NA
Intel Core i7-8650U @ 1.90GHz		6,637	\$1,046.00*
Intel Core i7-8665UE @ 1.70GHz		6,626	\$409.00*
AMD Ryzen 7 2700U		6,619	NA
AMD Ryzen 5 2500U		6,591	NA
Intel Core i5-10210U @ 1.60GHz		6,537	\$704.17
Intel Core i5-8365U @ 1.60GHz		6,525	\$669.98
Intel Core i5-8350U @ 1.70GHz		6,454	\$297.00*
Intel Core i5-8265U @ 1.60GHz		6,281	\$297.00*
Intel Core i7-1060NG7 @ 1.20GHz		6,234	NA
Intel Core i5-8250U @ 1.60GHz		6,158	NA
Intel Core i7-8550U @ 1.80GHz		6,118	NA
Intel Core i5-8365UE @ 1.60GHz		6,079	\$297.00*
Intel Core i5-8265UC @ 1.60GHz		5,999	NA
AMD Ryzen 3 PRO 3300U		5,977	NA
AMD Ryzen 3 PRO 2300U		5,788	NA
Intel Core i5-1030NG7 @ 1.10GHz		5,754	NA
AMD Ryzen 3 3300U		5,688	NA
Intel Core i3-1005G1 @ 1.20GHz		5,174	\$281.00*
AMD Ryzen 3 2300U		4,995	NA
Intel Core i5-10210Y @ 1.00GHz		4,900	NA
Intel Core i5-7442EQ @ 2.10GHz		4,853	\$250.00*
Intel Core i5-6442EQ @ 1.90GHz		4,573	\$250.00*
AMD Athlon 220GE		4,472	\$79.99
Intel Core i3-8109U @ 3.00GHz		4,387	\$449.00
Intel Core i5-7360U @ 2.30GHz		4,350	NA
Intel Core i3-8121U @ 2.20GHz		4,284	\$469.00
Intel Core i3-10110U @ 2.10GHz		4,240	\$494.90
AMD Ryzen 3 3250U		4,227	NA
AMD Ryzen Embedded R1505G		4,194	NA
AMD Ryzen 3 3200U		4,194	NA
Intel Core i3-1000NG4 @ 1.10GHz		4,035	NA
Intel Core i5-7287U @ 3.30GHz		4,029	NA
AMD Athlon 300U		4,023	NA
Intel Core i5-7267U @ 3.10GHz		3,993	NA
Intel Core i3-8145U @ 2.10GHz		3,671	\$281.00*
Intel Core i3-10110Y @ 1.00GHz		3,639	\$287.00*
AMD Ryzen Embedded V1202B		3,625	NA
AMD Ryzen 3 2200U		3,620	NA
AMD A8-7680		3,586	\$59.99*
Intel Core i3-8130U @ 2.20GHz		3,486	\$281.00*
Intel Core i3-7100H @ 3.00GHz		3,464	\$225.00*

Home CPU Benchmarks

Intel Core i5-6287U @ 3.10GHz		3,449	\$304.00*
Intel Core i3-7167U @ 2.80GHz		3,389	NA

🏠 CPU Benchmarks ▼

AMD Athlon Silver 3050U		3,262	NA
Intel Core i7-8500Y @ 1.50GHz		3,137	\$393.00*
Intel Core i5-8200Y @ 1.30GHz		3,070	\$291.00*
Intel Core m3-8100Y @ 1.10GHz		2,935	\$281.00*
Intel Core i3-7130U @ 2.70GHz		2,934	\$459.99*
AMD A12-9730P		2,898	NA
Intel Core i5-8210Y @ 1.60GHz		2,860	NA
Intel Pentium Silver N5000 @ 1.10GHz		2,721	\$161.00*
AMD A6-9400		2,717	NA
AMD PRO A10-9700B		2,703	NA
AMD A12-9720P		2,694	NA
AMD A10-9620P		2,670	NA
Intel Core i3-7020U @ 2.30GHz		2,605	\$281.00*
Intel Core m3-7Y32 @ 1.10GHz		2,578	NA
Intel Core i3-7102E @ 2.10GHz		2,531	\$225.00*
Intel Celeron N4100 @ 1.10GHz		2,529	\$107.00*
Intel Pentium 6405U @ 2.40GHz		2,504	\$161.00*
AMD PRO A12-8830B		2,462	NA
Intel Core i3-6102E @ 1.90GHz		2,455	\$225.00*
Intel Pentium Silver N5030 @ 1.10GHz		2,413	NA
Intel Pentium 5405U @ 2.30GHz		2,353	\$161.00*
Intel Pentium 4417U @ 2.30GHz		2,272	\$161.00*
Intel Celeron N4120 @ 1.10GHz		2,254	NA
Intel Pentium G4400TE @ 2.40GHz		2,217	\$64.00*
Intel Atom C2538 @ 2.40GHz		2,086	\$104.00*
Intel Atom T5700 @ 1.70GHz		2,039	NA
Intel Celeron G3900TE @ 2.30GHz		1,991	\$42.00*
Intel Celeron 4305UE @ 2.00GHz		1,961	NA
Intel Atom E3940 @ 1.60GHz		1,948	NA
Intel Core i5-4422E @ 1.80GHz		1,931	\$266.00*
Intel Core i5-4230U @ 1.90GHz		1,891	NA
Intel Celeron N4020 @ 1.10GHz		1,820	NA
Intel Celeron 3965U @ 2.20GHz		1,758	\$107.00*
AMD PRO A6-7350B		1,681	NA
Intel Pentium 4415Y @ 1.60GHz		1,636	\$161.00*
AMD A9-9420		1,569	NA
AMD A9-9425		1,550	NA
Intel Celeron N4000 @ 1.10GHz		1,513	\$107.00*
Intel Celeron N4000C @ 1.10GHz		1,511	NA
AMD Embedded G-Series GX-420GI Radeon R7E		1,462	NA
Intel Celeron 3867U @ 1.80GHz		1,459	\$107.00*
Intel Celeron 5205U @ 1.90GHz		1,451	\$107.00*
AMD A6-9220		1,396	NA
Intel Pentium 4410Y @ 1.50GHz		1,366	\$161.00*
AMD A6-9225		1,345	NA
Intel Celeron 4205U @ 1.80GHz		1,334	\$107.00*

AMD A4-9125	●	1,319	NA
Intel Pentium A1020 @ 2.41GHz	●	1,279	NA

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Intel Celeron 1020M @ 2.10GHz	●	1,270	NA
AMD A4-9120	●	1,255	NA
Intel Celeron 3865U @ 1.80GHz	●	1,240	NA
AMD A6-9220C	●	1,229	NA
AMD R-272F APU	●	1,219	NA
Intel Celeron 3965Y @ 1.50GHz	●	1,203	\$107.00*
AMD A9-9420e	●	1,192	NA
Intel Celeron 2002E @ 1.50GHz	●	1,105	\$86.00*
AMD A6-9200	●	1,076	NA
AMD Embedded G-Series GX-215JJ Radeon R2E	●	1,072	NA
AMD PRO A4-4350B	●	1,028	NA
AMD A6-9220e	●	999	NA
AMD A4-9120C	●	938	NA
AMD E2-9000e	●	816	NA
VIA Eden 1000MHz		124	NA
AMD G-T40R		116	NA

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