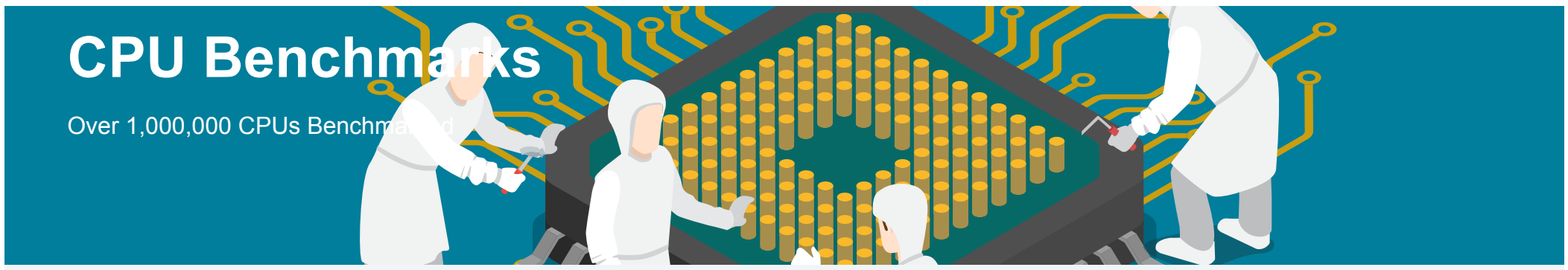
CPU Benchmarks



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

CPU Mega List
Search Model

Compare 0

CPU Mark | Price Performance | Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

CPU	CPU Mark	Price (USD)
Intel Xeon E-2286M @ 2.40GHz	18,477	$623.00*
Intel Core i9-9980HK @ 2.40GHz	17,673	$583.00*
Intel Core i9-9880H @ 2.30GHz	16,791	$556.00*
Intel Xeon E-2276M @ 2.80GHz	14,981	$450.00*
Intel Core i7-8700B @ 3.20GHz	14,802	$303.00*
Intel Xeon E-2186M @ 2.90GHz	14,519	$623.00*
Intel Core i9-8950HK @ 2.90GHz	14,237	$583.00*
Intel Core i7-9850H @ 2.60GHz	14,083	$395.00*
Intel Xeon E-2176M @ 2.70GHz	13,535	$450.00*
Intel Core i7-9750H @ 2.60GHz	13,487	$395.00*
Intel Core i7-8850H @ 2.60GHz	12,987	$395.00*
Intel Core i5-8500B @ 3.00GHz	12,756	$192.00*
Intel Core i7-10710U @ 1.10GHz	12,537	$443.00*
Intel Core i7-8750H @ 2.20GHz	12,401	$395.00*
Intel Core i7-8559U @ 2.70GHz	12,217	$543.00
Intel Core i5-9400F @ 2.90GHz	12,113	$144.99
Intel Core i5-9400H @ 2.50GHz	11,435	$250.00*
Intel Core i5-8259U @ 2.30GHz	10,994	$806.06
Intel Core i7-8809G @ 3.10GHz	10,986	NA
Intel Core i7-1065G7 @ 1.30GHz	10,819	NA
Intel Core i5-8279U @ 2.40GHz	10,623	$320.00*
Intel Xeon E3-1535M v6 @ 3.10GHz	10,563	$623.00*

Common

CPU Benchmarks

AMD vs Intel Market Share

Intel Core i7-8706G @ 3.10GHz	10,539	NA
Intel Core i5-8400H @ 2.50GHz	10,394	$250.00*
Intel Core i7-7920HQ @ 3.10GHz	9,991	$568.00*
Intel Core i7-7820HK @ 2.90GHz	9,957	$378.00*
Intel Core i7-8705G @ 3.10GHz	9,884	$1,408.75*
Intel Core i7-5850EQ @ 2.70GHz	9,817	$435.00*
Intel Core i7-8709G @ 3.10GHz	9,780	NA
Intel Core i5-9300H @ 2.40GHz	9,765	$250.00*
Intel Core i7-10510U @ 1.80GHz	9,481	$409.00*
Intel Core i5-8300H @ 2.30GHz	9,464	$250.00*
Intel Core i5-1035G7 @ 1.20GHz	9,456	$320.00*
Intel Core i7-7820HQ @ 2.90GHz	9,245	$378.00*
Intel Core i7-7820EQ @ 3.00GHz	9,144	$378.00*
Intel Core i5-1035G1 @ 1.00GHz	9,122	$297.00*
Intel Core i7-8665U @ 1.90GHz	8,994	$409.00*
AMD Ryzen 7 3750H	8,975	NA
Intel Core i5-8305G @ 2.80GHz	8,947	NA
Intel Core i7-8565U @ 1.80GHz	8,898	NA
AMD Ryzen 7 PRO 2700U	8,888	NA
Intel Core i5-10210U @ 1.60GHz	8,841	$297.00*
Intel Core i7-7700HQ @ 2.80GHz	8,766	$378.00*
Intel Core i5-8365UE @ 1.60GHz	8,698	$297.00*
Intel Xeon E3-1268L v5 @ 2.40GHz	8,695	$456.54
Intel Core i7-8650U @ 1.90GHz	8,695	$409.99*
AMD Ryzen 7 PRO 3700U	8,647	NA
AMD Ryzen 7 3780U	8,582	NA
Intel Core i3-8100B @ 3.60GHz	8,544	$133.00*
AMD Ryzen Embedded V1807B	8,528	NA
AMD Ryzen 7 2800H	8,498	NA
AMD Ryzen 5 PRO 3500U	8,453	NA
Intel Core i5-8365U @ 1.60GHz	8,398	$297.00*
AMD Ryzen 5 2600H	8,366	NA
AMD Ryzen 5 3550H	8,327	NA
Intel Core i7-8550U @ 1.80GHz	8,245	NA
AMD Ryzen 3 PRO 3200GE	8,244	NA
AMD Ryzen 5 PRO 2500U	8,213	NA
Intel Core i5-8350U @ 1.70GHz	8,138	$297.00*
AMD Ryzen 7 3700U	8,095	NA
Intel Core i5-8265U @ 1.60GHz	7,971	$297.00*
AMD Ryzen 5 3500U	7,936	NA
Intel Xeon E3-1505L v6 @ 2.20GHz	7,887	NA
Intel Core i5-8265UC @ 1.60GHz	7,780	NA
Intel Core i5-8250U @ 1.60GHz	7,653	NA
Intel Core i5-7440HQ @ 2.80GHz	7,641	NA
AMD Ryzen 5 3580U	7,429	NA
AMD Ryzen 7 2700U	7,396	NA
AMD Ryzen 5 2500U	7,345	NA
AMD Ryzen Embedded V1605B	7,087	NA

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AMD Ryzen 3 PRO 2300U	7,053	NA
AMD Ryzen 3 PRO 3300U	6,888	NA

CPU Benchmarks

Intel Core i7-7567U @ 3.50GHz	6,464	$889.98*
Intel Xeon E3-1505L v5 @ 2.00GHz	6,374	NA
AMD Ryzen 3 3300U	6,143	NA
Intel Core i3-8109U @ 3.00GHz	6,128	NA
AMD Ryzen 3 2300U	6,104	NA
Intel Core i7-7660U @ 2.50GHz	5,988	NA
Intel Core i3-10110U @ 2.10GHz	5,930	NA
Intel Core i5-7442EQ @ 2.10GHz	5,901	$250.00*
Intel Core i3-1005G1 @ 1.20GHz	5,878	$281.00*
Intel Core i5-7360U @ 2.30GHz	5,855	NA
Intel Core i7-7560U @ 2.40GHz	5,770	NA
Intel Core i5-7287U @ 3.30GHz	5,656	NA
Intel Core i5-7260U @ 2.20GHz	5,637	$557.79
Intel Core i3-8145U @ 2.10GHz	5,523	$281.00*
AMD A8-7680	5,322	$59.99*
AMD Athlon 220GE	5,237	$69.83
Intel Core i5-7300U @ 2.60GHz	5,161	$469.99
Intel Core i7-7600U @ 2.80GHz	5,110	NA
AMD Embedded R-Series RX-418GD Radeon R6	5,068	NA
Intel Core i3-8130U @ 2.20GHz	5,021	$281.00*
Intel Core i5-7267U @ 3.10GHz	4,999	NA
Intel Core i3-8121U @ 2.20GHz	4,802	NA
AMD FX-9830P	4,783	NA
Intel Core i3-7167U @ 2.80GHz	4,757	NA
Intel Core i5-6287U @ 3.10GHz	4,751	$304.00*
AMD Ryzen 3 3200U	4,723	NA
AMD Athlon 300U	4,698	NA
Intel Core i5-6360U @ 2.00GHz	4,686	NA
Intel Core i3-7100H @ 3.00GHz	4,627	$225.00*
AMD Ryzen 3 2200U	4,583	NA
AMD Ryzen Embedded R1505G	4,555	NA
Intel Core i7-6498DU @ 2.50GHz	4,470	NA
AMD Ryzen Embedded V1202B	4,447	NA
AMD A12-9730P	4,417	NA
AMD PRO A10-9700B	4,380	NA
Intel Core i5-8200Y @ 1.30GHz	4,339	$291.00*
AMD PRO A12-8830B	4,259	NA
Intel Core i5-8210Y @ 1.60GHz	4,227	NA
Intel Core i3-7130U @ 2.70GHz	4,062	$459.99*
AMD A12-9720P	3,993	NA
AMD PRO A8-9600B	3,964	NA
AMD PRO A10-8730B	3,962	NA
Intel Core i7-8500Y @ 1.50GHz	3,945	$393.00*
Intel Core i5-7Y57 @ 1.20GHz	3,676	NA
AMD A10-9620P	3,672	NA
Intel Core m3-8100Y @ 1.10GHz	3,593	$281.00*

Intel Core i3-7020U @ 2.30GHz	3,517	$281.00*
Intel Core m3-7Y32 @ 1.10GHz	3,318	NA

CPU Benchmarks

Intel Core i3-6102E @ 1.90GHz	3,196	$225.00*
Intel Pentium 5405U @ 2.30GHz	3,184	$161.00*
Intel Pentium 4417U @ 2.30GHz	3,180	$161.00*
Intel Pentium 4415U @ 2.30GHz	3,146	NA
Intel Core i3-6006U @ 2.00GHz	3,077	NA
Intel Core i5-4230U @ 1.90GHz	2,902	NA
Intel Pentium G4400TE @ 2.40GHz	2,885	$64.00*
Intel Core i5-4422E @ 1.80GHz	2,806	$266.00*
AMD PRO A6-7350B	2,759	NA
Intel Celeron G3900E @ 2.40GHz	2,679	$107.00*
Intel Celeron G3900TE @ 2.30GHz	2,591	$42.00*
AMD Embedded G-Series GX-420GI Radeon R7E	2,508	NA
AMD A9-9425	2,505	NA
Intel Pentium Silver N5000 @ 1.10GHz	2,458	$161.00*
AMD Embedded R-Series RX-216GD	2,409	NA
AMD PRO A6-8530B	2,388	NA
Intel Celeron 2000E @ 2.20GHz	2,365	NA
Intel Celeron 3965U @ 2.20GHz	2,363	$107.00*
AMD A9-9420	2,340	NA
AMD A9-9400	2,306	NA
Intel Celeron N4100 @ 1.10GHz	2,270	$107.00*
Intel Pentium 4415Y @ 1.60GHz	2,222	$161.00*
AMD A6-9220	2,173	NA
AMD A6-9225	2,131	NA
AMD A4-5050 APU	2,124	NA
AMD Embedded G-Series GX-224IJ Radeon R4E	2,088	NA
Intel Atom C2538 @ 2.40GHz	2,085	$104.00*
AMD PRO A6-9500B	2,076	NA
AMD A6-9220C	2,071	NA
Intel Pentium 4410Y @ 1.50GHz	2,050	$161.00*
Intel Atom T5700 @ 1.70GHz	2,039	NA
Intel Pentium N4200 @ 1.10GHz	2,035	$233.98*
AMD A4-9125	2,001	NA
Intel Celeron 4205U @ 1.80GHz	1,979	$107.00*
AMD A4-9120	1,967	NA
Intel Celeron 3865U @ 1.80GHz	1,913	NA
Intel Atom x7-Z8750 @ 1.60GHz	1,894	NA
Intel Atom E3950 @ 1.60GHz	1,876	NA
Intel Atom E3940 @ 1.60GHz	1,867	NA
Intel Celeron 3867U @ 1.80GHz	1,852	$107.00*
Intel Celeron N3450 @ 1.10GHz	1,850	$187.77
AMD A9-9420e	1,820	NA
AMD Embedded G-Series GX-215JJ Radeon R2E	1,758	NA
AMD A6-9200	1,747	NA
AMD E2-9010	1,705	NA

AMD E2-9000	1,654	NA
AMD A6-9220e	1,629	NA

CPU Benchmarks

Intel Celeron 2002E @ 1.50GHz	1,605	$86.00*
AMD R-260H APU	1,576	NA
AMD A4-9120C	1,539	NA
Intel Celeron N4000 @ 1.10GHz	1,426	$107.00*
Intel Celeron 2981U @ 1.60GHz	1,364	NA
AMD E2-9000e	1,324	NA
AMD GX-218GL SOC	1,207	NA
Intel Celeron J3355 @ 2.00GHz	1,155	NA
Intel Celeron N3350 @ 1.10GHz	1,112	NA
Intel Celeron N3010 @ 1.04GHz	973	NA
Intel Atom x5-E3930 @ 1.30GHz	811	NA
AMD G-T40R	203	NA
VIA Eden 1200MHz	142	NA
VIA Eden 1000MHz	123	NA

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Software
- BurnInTest
- PerformanceTest
- OSForensics
- MemTest86
- WirelessMon
- Zoom Search Engine
- Free Software

Hardware
- USB3.0 Loopback Plugs
- USB2.0 Loopback Plugs
- PCIe Test Cards
- USB Power Delivery Tester
- Serial and Parallel Loopback Plugs
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