

# 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.

Home **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 7th of July 2021

CPU	CPU Mark	Price (USD)
Intel Xeon W-11955M @ 2.60GHz	25,119	\$623.00*
Intel Core i9-11950H @ 2.60GHz	24,248	\$556.00*
Intel Core i9-11980HK @ 2.60GHz	23,268	\$583.00*
AMD Ryzen 9 5900HX	23,236	NA
AMD Ryzen 9 5900HS	22,930	NA
AMD Ryzen 9 5980HS	22,691	NA
AMD Ryzen 7 5800H	22,002	NA
Intel Core i7-11800H @ 2.30GHz	21,434	\$395.00*
Intel Core i7-11850H @ 2.50GHz	21,158	\$395.00*
AMD Ryzen 7 5800HS	20,930	NA
Intel Xeon W-11855M @ 3.20GHz	20,088	\$450.00*
AMD Ryzen 7 PRO 5850U	19,891	NA
AMD Ryzen 7 5800U	19,798	NA
AMD Ryzen 9 4900HS	19,634	NA
AMD Ryzen 7 4800H	19,223	NA
AMD Ryzen 7 4800HS	19,006	NA
AMD Ryzen 9 4900H	18,985	NA
AMD Ryzen 5 5600H	18,197	NA
AMD Ryzen 7 Extreme Edition	18,187	NA
Intel Core i5-11500H @ 2.90GHz	17,655	\$250.00*
AMD Ryzen 5 PRO 5650U	17,294	NA
AMD Ryzen 7 4800U	17,268	NA
Intel Xeon W-10885M @ 2.40GHz	16,895	\$623.00*

Intel Xeon W-10855M @ 2.40GHz	16,999	\$929.00
Intel Core i9-10980HK @ 2.40GHz	16,596	\$583.00*



CPU Benchmarks

most Benchmarked

AMD vs Intel Market Share

Year on Year Performance

Intel Core i9-10885H @ 2.40GHz	16,088	\$556.00*
AMD Ryzen 5 5600U	16,053	NA
Intel Xeon E-2286M @ 2.40GHz	15,794	\$1,373.18*
Intel Core i7-10875H @ 2.30GHz	15,736	\$450.00*
AMD Ryzen 7 PRO 4750U	15,554	NA
Intel Core i9-10880H @ 2.30GHz	15,390	NA
Intel Core i7-10870H @ 2.20GHz	15,386	\$417.00*
Apple M1 8 Core 3200 MHz	15,134	NA
Intel Core i9-9980HK @ 2.40GHz	14,953	\$583.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600H	14,794	NA
AMD Ryzen 5 4600HS	14,652	NA
Intel Core i9-9880H @ 2.30GHz	13,982	\$556.00*
AMD Ryzen 7 4700U	13,766	NA
AMD Ryzen 5 4600U	13,735	NA
AMD Ryzen 5 5500U	13,618	NA
Intel Xeon W-10855M @ 2.80GHz	13,184	\$450.00*
Intel Core i7-11375H @ 3.30GHz	13,110	\$482.00*
AMD Ryzen 5 PRO 4650U	12,978	NA
Intel Core i7-8700B @ 3.20GHz	12,668	\$303.00*
Intel Core i7-11370H @ 3.30GHz	12,666	\$426.00*
Intel Core i7-10750H @ 2.60GHz	12,553	NA
Intel Core i7-10850H @ 2.70GHz	12,500	\$395.00*
Intel Core i5-10500H @ 2.50GHz	12,317	\$250.00*
Intel Xeon E-2276M @ 2.80GHz	12,252	\$450.00*
AMD Ryzen 3 5400U	12,118	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	11,632	\$1,305.76*
Intel Core i7-9750HF @ 2.60GHz	11,610	\$395.00*
Intel Core i7-9750H @ 2.60GHz	11,309	\$960.00*
AMD Ryzen 5 4500U	11,234	NA
Intel Core i5-11300H @ 3.10GHz	11,209	\$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	10,960	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,887	NA
Intel Core i7-9700TE @ 1.80GHz	10,722	\$323.00*
Intel Core i7-1165G7 @ 2.80GHz	10,590	\$426.00*
Intel Core i5-1130G7 @ 1.10GHz	10,483	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,350	\$426.00*
AMD Ryzen 3 5300U	10,167	NA
Intel Core i7-10710U @ 1.10GHz	10,091	\$644.99*
Intel Core i5-1135G7 @ 2.40GHz	10,088	\$309.00*
AMD Ryzen 3 PRO 4450U	10,071	NA

Intel Core i5-1038NG7 @ 2.00GHz		9,712	\$320.00*
Intel Core i5-9400F @ 2.90GHz		9,549	\$192.25

 CPU Benchmarks 

Intel Core i3-1125G4 @ 2.00GHz		9,172	NA
Intel Core i7-10810U @ 1.10GHz		9,121	\$443.00*
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
Intel Core i5-10400H @ 2.60GHz		9,010	\$250.00*
Intel Core i7-8559U @ 2.70GHz		8,862	\$617.00*
Intel Core i7-1065G7 @ 1.30GHz		8,857	\$426.00*
Intel Core i5-10300H @ 2.50GHz		8,762	\$250.00*
Intel Core i7-8569U @ 2.80GHz		8,619	\$431.00*
Intel Core i5-10200H @ 2.40GHz		8,458	\$250.00*
Intel Core i7-8557U @ 1.70GHz		8,429	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz		8,391	\$320.00*
AMD Ryzen 7 3750H		8,374	NA
AMD Ryzen Embedded V1807B		8,359	NA
Intel Core i5-1035G4 @ 1.10GHz		8,274	\$309.00*
Intel Core i5-9400H @ 2.50GHz		8,267	\$250.00*
Intel Core i5-8259U @ 2.30GHz		8,193	\$519.99*
Intel Core i7-8706G @ 3.10GHz		8,136	NA
AMD Ryzen 3 4300U		8,097	NA
Intel Core i5-8279U @ 2.40GHz		8,089	\$320.00*
AMD Ryzen 5 3550H		8,088	NA
Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*
AMD Ryzen 5 3500U		7,951	NA
Intel Core i7-8709G @ 3.10GHz		7,921	NA
Intel Core i5-1035G1 @ 1.00GHz		7,902	\$297.00*
Intel Core i5-8257U @ 1.40GHz		7,897	\$320.00*
Intel Core i5-9300H @ 2.40GHz		7,870	\$250.00*
Intel Core i5-8260U @ 1.60GHz		7,869	\$439.99*
AMD Ryzen 5 3580U		7,833	NA
AMD Ryzen 7 2800H		7,656	NA
Intel Core i5-9300HF @ 2.40GHz		7,652	\$250.00*
AMD Ryzen 5 2600H		7,537	NA
Intel Core i3-10100T @ 3.00GHz		7,488	\$122.00*
Intel Core i7-7820EQ @ 3.00GHz		7,453	\$378.00*
Intel Core i7-1060NG7 @ 1.20GHz		7,425	NA
AMD Ryzen 7 3780U		7,386	NA
AMD Ryzen 7 3700U		7,358	NA
AMD Ryzen 7 PRO 3700U		7,353	NA
Intel Core i7-10610U @ 1.80GHz		7,138	\$409.00*
Intel Core i5-8305G @ 2.80GHz		7,073	NA
AMD Ryzen 3 PRO 3200GE		7,071	NA
Intel Core i7-5850EQ @ 2.70GHz		7,036	\$435.00*
AMD Ryzen 5 3450U		7,017	NA
AMD Ryzen 5 PRO 3500U		6,967	NA
Intel Core i5-10310U @ 1.70GHz		6,952	\$297.00*
Intel Core i7-10510U @ 1.80GHz		6,939	\$409.00*
AMD Ryzen Embedded V1605B		6,845	NA

Intel Core i7-8665UE @ 1.70GHz		6,587	\$409.00*
Intel Core i3-1115G4 @ 3.00GHz		6,544	\$281.00*

 CPU Benchmarks 

Intel Core i5-8365U @ 1.60GHz		6,419	\$539.07*
Intel Core i7-8565U @ 1.80GHz		6,371	\$615.00*
AMD Ryzen 3 3350U		6,266	NA
Intel Core i3-8100B @ 3.60GHz		6,200	\$133.00*
Intel Core i7-8565UC @ 1.80GHz		6,187	NA
Intel Core i5-8265U @ 1.60GHz		6,122	\$499.88*
Intel Core i5-1030NG7 @ 1.10GHz		6,058	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*
AMD Ryzen 3 2300U		5,473	NA
Intel Pentium Gold 7505 @ 2.00GHz		5,451	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		5,211	\$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		4,392	NA
Intel Core i3-8121U @ 2.20GHz		4,369	\$290.00*
Intel Core i3-8109U @ 3.00GHz		4,322	\$499.99*
Intel Core i3-8145UE @ 2.20GHz		4,133	\$281.00*
AMD Ryzen 3 3250U		4,131	NA
Intel Core i3-1000NG4 @ 1.10GHz		4,070	NA
Intel Core i3-10110U @ 2.10GHz		4,045	\$434.17*
AMD Athlon 300U		4,022	NA
AMD Ryzen Embedded R1505G		3,969	NA
AMD Ryzen 3 3200U		3,964	NA
Microsoft ARM SQ1 @ 3.0 GHz		3,951	NA
Intel Core i7-6660U @ 2.40GHz		3,879	\$415.00*
Intel Core i3-8145U @ 2.10GHz		3,828	\$281.00*
AMD Ryzen Embedded V1202B		3,823	NA
AMD A8-7680		3,535	\$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		3,195	NA
Intel Core m3-8100Y @ 1.10GHz		3,028	\$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		2,820	NA
AMD A6-9200		2,717	NA

[Home](#) CPU Benchmarks ▼

Intel Pentium Silver N5030 @ 1.10GHz		2,665	NA
AMD 3020e		2,635	NA
Intel Core i3-7102E @ 2.10GHz		2,521	\$225.00*
Intel Celeron N4120 @ 1.10GHz		2,486	NA
Intel Celeron N5100 @ 1.10GHz		2,448	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		2,307	\$161.00*
Intel Pentium 4417U @ 2.30GHz		2,250	\$161.00*
Intel Celeron 6305 @ 1.80GHz		2,246	NA
Intel Celeron 4305UE @ 2.00GHz		1,950	NA
Intel Celeron G3900TE @ 2.30GHz		1,850	\$42.00*
AMD GX-420MC SOC		1,796	NA
Intel Pentium 4425Y @ 1.70GHz		1,688	\$161.00*
Intel Celeron N4020 @ 1.10GHz		1,626	NA
Intel Pentium 4415Y @ 1.60GHz		1,616	\$161.00*
Intel Celeron N4000C @ 1.10GHz		1,602	NA
Intel Celeron 3867U @ 1.80GHz		1,467	\$107.00*
Intel Celeron 5205U @ 1.90GHz		1,439	\$107.00*
AMD A6-9225		1,337	NA
Intel Celeron 4205U @ 1.80GHz		1,332	\$107.00*
Intel Atom T5700 @ 1.70GHz		1,326	NA
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		1,211	NA
AMD A6-9220C		1,208	NA
Intel Celeron 2002E @ 1.50GHz		1,091	\$86.00*
AMD PRO A4-4350B		1,046	NA
AMD A4-9120e		907	NA
AMD A4-9120C		782	NA
AMD G-T40R		120	NA

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[Home](#) **CPU Benchmarks** ▼

[Benchmarks](#)

