

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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PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 3rd of April 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	58,786	NA
Intel Core i9-13980HX	48,617	\$668.00*
AMD Ryzen 9 7845HX	46,816	NA
Intel Core i9-13900HX	46,755	\$668.00*
Intel Core i9-13950HX	44,928	\$590.00*
Intel Core i7-13850HX	38,473	\$428.00*
Intel Core i9-12900HX	35,562	\$606.00*
Intel Core i7-13650HX	33,589	\$485.00*
Intel Core i7-12800HX	33,556	\$457.00*

Intel Core i9-13900H	31,979	\$617.00*
Intel Core i7-13700H	31,389	\$502.00*
 CPU Benchmarks ▼		
Intel Core i7-12850HX	30,381	\$428.00*
Intel Core i9-12900H	29,027	\$617.00*
Intel Core i9-12900HK	28,579	\$635.00*
AMD Ryzen 7 7840HS	28,429	NA
Intel Core i7-13620H	27,541	\$502.00*
Intel Core i7-12700H	26,693	\$457.00*
Apple M2 Pro 12 Core 3480 MHz	26,488	NA
Apple M2 Max 12 Core 3680 MHz	26,132	NA
AMD Ryzen 7 7735H	25,461	NA
AMD Ryzen 9 6900HX	24,823	NA
AMD Ryzen 7 7735HS	24,789	NA
Intel Core i7-12800H	24,642	\$457.00*
Intel Core i7-12650H	24,424	\$457.00*
Intel Core i5-12600HX	24,128	\$284.00*
Intel Core i5-13500H	24,074	NA
AMD Ryzen 9 6900HS	24,005	NA
AMD Ryzen 7 7736U	23,860	NA
AMD Ryzen 9 5980HX	23,813	NA
AMD Ryzen 7 6800H	23,757	NA
Intel Core i7-1370P	23,606	NA
AMD Ryzen 7 PRO 6850H	23,374	NA
Intel Core i9-11980HK @ 2.60GHz	23,318	\$583.00*
AMD Ryzen 9 PRO 6950HS	23,295	NA
Intel Core i5-12600H	23,070	\$311.00*
AMD Ryzen 7 6800HS Creator Edition	23,039	NA
Intel Xeon W-11955M @ 2.60GHz	23,013	\$623.00*
AMD Ryzen 7 6800HS	23,001	NA
AMD Ryzen 9 5900HX	22,854	NA
AMD Ryzen 9 PRO 6950H	22,544	NA
AMD Ryzen 9 6900HS Creator Edition	22,399	NA
Apple M1 Max 10 Core 3200 MHz	22,131	NA
AMD Ryzen 9 5900HS	22,012	NA
Apple M1 Pro 10 Core 3200 MHz	21,921	NA
AMD Ryzen 7 PRO 6850HS	21,910	NA
Intel Core i9-11950H @ 2.60GHz	21,789	\$556.00*
Apple M2 Pro 10 Core 3480 MHz	21,692	NA
Intel Core i5-12500H	21,647	\$311.00*
Intel Core i7-1360P	21,395	\$480.00*
AMD Ryzen 7 5800H	21,292	NA
AMD Ryzen 7 5800HS Creator Edition	21,166	NA
Intel Core i9-11900H @ 2.50GHz	21,142	\$546.00*
AMD Ryzen 7 PRO 6860Z	21,098	NA
AMD Ryzen 9 5980HS	21,058	NA
Intel Core i7-11800H @ 2.30GHz	20,981	\$395.00*

Intel Core i7-11850H @ 2.50GHz	20,867	\$395.00*
Intel Core i7-12700TF	20,712	\$344.00*
 CPU Benchmarks ▼		
AMD Ryzen 7 5800HS	20,628	NA
Intel Core i7-1280P	20,430	\$482.00*
Intel Core i5-1340P	20,197	\$353.00*
AMD Ryzen 5 PRO 6650H	20,103	NA
Intel Core i5-1250P	19,643	NA
Intel CoreT i7-1360P	19,618	\$480.00*
AMD Ryzen 9 4900H	19,301	NA
AMD Ryzen 9 4900HS	19,251	NA
AMD Ryzen 5 6600HS Creator Edition	19,127	NA
AMD Ryzen 7 7730U	19,081	NA
AMD Ryzen 5 6600H	19,080	NA
AMD Ryzen 7 5800U	18,735	NA
AMD Ryzen 7 4800HS	18,683	NA
AMD Ryzen 7 5825U	18,593	NA
Intel Xeon W-11855M @ 3.20GHz	18,359	\$450.00*
AMD Ryzen 7 Extreme Edition	18,261	NA
Intel Core i5-12450H	18,093	\$311.00*
AMD Ryzen 5 6600U	17,553	NA
Intel Core i7-1270P	17,470	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i5-1240P	17,419	NA
AMD Ryzen 7 PRO 5850U	17,376	NA
Intel Core i7-1260P	17,327	NA
Intel Core i5-1345U	17,303	\$309.00*
AMD Ryzen 5 5600H	17,187	NA
Apple M1 Pro 8 Core 3200 MHz	17,184	NA
AMD Ryzen 7 4800U	16,966	NA
AMD Ryzen 5 PRO 6650U	16,717	NA
Intel Core i5-12500TE	16,584	\$205.00*
AMD Ryzen 5 7530U	16,574	NA
Intel Core i7-10700E @ 2.90GHz	16,418	\$330.00*
AMD Ryzen 7 PRO 5875U	16,349	NA
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i5-11500H @ 2.90GHz	16,081	\$250.00*
Intel Xeon W-10885M @ 2.40GHz	15,923	\$623.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i5-11400H @ 2.70GHz	15,903	\$250.00*
Intel Core i9-10980HK @ 2.40GHz	15,897	\$583.00*
AMD Ryzen 7 5700U	15,867	NA
Intel Core i7-11600H @ 2.90GHz	15,847	\$395.00*
Intel Core i5-11260H @ 2.60GHz	15,720	\$250.00*
AMD Ryzen 5 5600U	15,432	NA
Intel Core i9-10885H @ 2.40GHz	15,428	\$556.00*
Apple M2 8 Core 3500 MHz	15,358	NA

AMD Ryzen 5 5560U	15,210	NA
AMD Ryzen 5 5625U	15,094	NA
 CPU Benchmarks ▼		
Intel Core i7-1365U	14,925	\$426.00*
Intel Core i7-10870H @ 2.20GHz	14,801	\$417.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i9-10880H @ 2.30GHz	14,736	NA
AMD Ryzen 5 4600H	14,645	NA
AMD Ryzen 5 PRO 5675U	14,639	NA
AMD Ryzen 5 4600HS	14,445	NA
Intel Core i5-1240U	14,323	NA
Intel Core i3-1220P	14,264	\$281.00*
Apple M1 8 Core 3200 MHz	14,196	NA
Intel Core i7-1255U	13,953	\$426.00*
Intel Core i7-1265U	13,846	\$426.00*
Intel Core i5-1235U	13,655	\$309.00*
AMD Ryzen 7 4700U	13,508	NA
AMD Ryzen 5 4600U	13,500	NA
Intel Core i7-1250U	13,336	\$426.00*
Intel Core i5-1245U	13,324	\$309.00*
AMD Ryzen 5 5500U	13,173	NA
Intel Core i7-1260U	13,046	NA
Intel Core i3-12100TE	12,961	\$125.00*
Intel Xeon W-10855M @ 2.80GHz	12,936	\$450.00*
AMD Ryzen 3 PRO 7330U	12,862	NA
AMD Ryzen 5 PRO 4650U	12,766	NA
Intel Core i7-11375H @ 3.30GHz	12,398	\$482.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-10850H @ 2.70GHz	12,009	\$395.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,906	NA
Intel Core i7-11370H @ 3.30GHz	11,859	\$426.00*
AMD Ryzen 3 7330U	11,856	NA
AMD Ryzen 3 5425U	11,608	NA
Intel Core i5-10500H @ 2.50GHz	11,523	\$250.00*
Intel Core i3-1215U	11,356	NA
AMD Ryzen 3 5400U	11,350	NA
AMD Ryzen 3 PRO 5475U	11,337	NA
Intel Core i3-1210U	11,087	NA
Intel Core i7-1195G7 @ 2.90GHz	11,059	\$426.00*
AMD Ryzen 5 4500U	11,045	NA
Intel Core i5-11300H @ 3.10GHz	11,045	\$309.00*
AMD Ryzen 3 PRO 5450U	11,010	NA
Intel Core i5-11320H @ 3.20GHz	11,000	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i5-1230U	10,859	\$309.00*
Intel Core i7-1185G7 @ 3.00GHz	10,630	\$426.00*
Intel Core i7-1265UE	10,573	\$472.00*

Intel Core i7-1185G7E @ 2.80GHz	10,444	\$431.00*
Intel Core i7-1165G7 @ 2.80GHz	10,418	\$426.00*
 CPU Benchmarks ▼		
AMD Ryzen 3 PRO 4450U	10,102	NA
Intel Core i5-1145G7 @ 2.60GHz	10,070	NA
Intel Core i5-1135G7 @ 2.40GHz	9,975	\$309.00*
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
AMD Ryzen 3 5300U	9,938	NA
Intel Core i3-1125G4 @ 2.00GHz	9,891	NA
Intel Core i7-1068NG7 @ 2.30GHz	9,848	\$426.00*
AMD Ryzen 5 7520U	9,601	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,345	\$320.00*
AMD Ryzen 3 7320U	9,299	NA
Intel Core i7-1160G7 @ 1.20GHz	9,167	\$426.00*
Intel Core i5-9500TE @ 2.20GHz	9,028	\$192.00*
Intel Pentium Gold 8505	8,824	NA
Intel Core i5-1130G7 @ 1.10GHz	8,822	\$309.00*
Intel Core i5-10400H @ 2.60GHz	8,774	\$250.00*
Intel Core i7-1180G7 @ 1.30GHz	8,466	\$426.00*
Intel Core i5-10200H @ 2.40GHz	8,316	\$250.00*
Intel Core i7-10810U @ 1.10GHz	8,177	\$443.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i5-8260U @ 1.60GHz	7,747	\$439.99*
Intel Core i5-9300HF @ 2.40GHz	7,523	\$250.00*
Intel Core i3-10100T @ 3.00GHz	7,321	\$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	6,903	\$409.00*
AMD Ryzen 5 3450U	6,790	NA
Intel Core i7-1060NG7 @ 1.20GHz	6,789	NA
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,733	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,511	NA
Intel Core i5-10310U @ 1.70GHz	6,499	\$297.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i3-1115G4 @ 3.00GHz	6,180	\$281.00*
Intel Core i5-1030NG7 @ 1.10GHz	5,967	NA
AMD Ryzen 3 3350U	5,889	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel N95	5,479	NA
Intel Pentium Silver N6005 @ 2.00GHz	5,410	NA
AMD Ryzen 5 3500C	5,372	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,285	NA
Snapdragon 8c @ 2.46 GHz	5,230	NA
Intel Core i7-10510Y @ 1.20GHz	5,100	\$403.00*
Snapdragon 8cx @ 2.84 GHz	4,660	NA
AMD Athlon Silver 3050GE	4,545	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	\$122.00*

Intel Core i3-8140U @ 2.10GHz	4,227	NA
Intel Core i3-R14511F @ 2.20GHz	4,074	\$281.00*
 CPU Benchmarks ▼		
AMD Athlon Gold 3150U	4,016	NA
AMD Ryzen 3 3250U	3,893	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,776	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,637	NA
Snapdragon 7c @ 1.96 GHz	3,457	NA
Intel Core i5-L16G7 @ 1.40GHz	3,447	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Celeron N5100 @ 1.10GHz	3,397	NA
AMD Athlon Gold 3150C	3,292	NA
Intel Core i3-10110Y @ 1.00GHz	3,269	\$287.00*
AMD Ryzen 3 3250C	3,208	NA
Intel Core i3-6167U @ 2.70GHz	3,156	NA
Snapdragon 7c @ 2.40 GHz	3,074	NA
AMD Athlon Silver 3050e	3,010	NA
AMD Ryzen Embedded R1305G	3,003	NA
AMD Athlon Silver 3050U	2,997	NA
Snapdragon 850 @ 2.96 GHz	2,940	NA
AMD 3015e	2,709	NA
AMD 3020e	2,446	NA
Intel Pentium 6405U @ 2.40GHz	2,327	\$161.00*
Intel Celeron 7305	2,189	\$107.00*
Intel Celeron 6305 @ 1.80GHz	2,071	NA
Snapdragon 835	1,905	NA
Intel Pentium 4425Y @ 1.70GHz	1,715	\$161.00*
Intel Celeron N4020C @ 1.10GHz	1,606	NA
AMD Athlon PRO 3045B	1,487	NA
Intel Pentium Dual T2390 @ 1.86GHz	745	NA
AMD E2-7015	572	NA

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