

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 February 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7845HX	46,791	NA
Intel Core i9-12900HX	35,628	\$606.00*
Intel Core i7-12800HX	33,753	\$457.00*
Intel Core i9-12950HX	32,784	\$590.00*
Intel Core i7-12850HX	29,887	\$428.00*
Intel Core i9-12900H	28,922	\$617.00*
Intel Core i9-12900HK	28,845	\$635.00*
Intel Core i7-12700H	26,808	\$457.00*
Apple M2 Max 12 Core 3680 MHz	26,321	NA

Intel Core i7-1370P	25,032	NA
Intel Core i7-12650H	24,647	\$457.00*
 CPU Benchmarks ▼		
Intel Core i7-12800H	24,454	\$457.00*
Intel Core i5-13500H	24,074	NA
AMD Ryzen 9 6900HS	24,032	NA
Intel Core i5-12600HX	23,988	\$284.00*
AMD Ryzen 7 7736U	23,860	NA
AMD Ryzen 7 6800H	23,778	NA
AMD Ryzen 9 5980HX	23,658	NA
AMD Ryzen 9 PRO 6950H	23,447	NA
Intel Core i9-11980HK @ 2.60GHz	23,340	\$583.00*
AMD Ryzen 9 PRO 6950HS	23,311	NA
AMD Ryzen 7 PRO 6850H	23,246	NA
Intel Xeon W-11955M @ 2.60GHz	23,136	\$623.00*
AMD Ryzen 7 6800HS Creator Edition	22,972	NA
AMD Ryzen 7 6800HS	22,922	NA
AMD Ryzen 9 5900HX	22,883	NA
Intel Core i5-12600H	22,704	\$311.00*
AMD Ryzen 9 6900HS Creator Edition	22,533	NA
Apple M2 Pro 10 Core 3480 MHz	22,206	NA
Apple M1 Max 10 Core 3200 MHz	22,160	NA
AMD Ryzen 9 5900HS	22,067	NA
Apple M1 Pro 10 Core 3200 MHz	21,956	NA
Intel Core i9-11950H @ 2.60GHz	21,863	\$556.00*
Intel Core i5-12500H	21,776	\$311.00*
AMD Ryzen 7 PRO 6850HS	21,457	NA
AMD Ryzen 7 5800H	21,298	NA
AMD Ryzen 7 5800HS Creator Edition	21,166	NA
Intel Core i9-11900H @ 2.50GHz	21,145	\$546.00*
AMD Ryzen 9 5980HS	21,058	NA
Intel Core i7-11800H @ 2.30GHz	21,050	\$395.00*
AMD Ryzen 7 PRO 6850U	20,983	NA
AMD Ryzen 9 5900H	20,960	NA
Intel Core i7-11850H @ 2.50GHz	20,920	\$395.00*
AMD Ryzen 7 PRO 6860Z	20,908	NA
Intel Core i7-12700TE	20,712	\$344.00*
AMD Ryzen 7 6800U	20,631	NA
AMD Ryzen 7 5800HS	20,624	NA
Intel Core i7-1280P	20,613	\$482.00*
AMD Ryzen 5 PRO 6650H	20,103	NA
Intel Core i5-1250P	19,607	NA
AMD Ryzen 9 4900HS	19,282	NA
AMD Ryzen 9 4900H	19,265	NA
AMD Ryzen 5 6600HS Creator Edition	19,019	NA
AMD Ryzen 5 6600H	18,902	NA
AMD Ryzen 7 4800H	18,851	NA

AMD Ryzen 7 5825U	18,445	NA
Intel Xeon W-11855M @ 3.20GHz	18,365	\$450.00*
 CPU Benchmarks ▼		
Intel Core i5-12450H	18,110	\$311.00*
AMD Ryzen 5 6600U	17,904	NA
AMD Ryzen 5 7530U	17,704	NA
Intel Core i7-1270P	17,532	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i5-1240P	17,348	NA
AMD Ryzen 7 PRO 5850U	17,317	NA
Apple M1 Pro 8 Core 3200 MHz	17,217	NA
Intel Core i7-1260P	17,197	NA
AMD Ryzen 5 5600H	17,162	NA
AMD Ryzen 7 4800U	16,966	NA
Intel Core i5-12500TE	16,584	\$205.00*
AMD Ryzen 5 PRO 6650U	16,554	NA
Intel Core i7-10700E @ 2.90GHz	16,418	\$330.00*
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i5-11500H @ 2.90GHz	16,150	\$250.00*
Intel Core i9-10980HK @ 2.40GHz	15,965	\$583.00*
Intel Xeon W-10885M @ 2.40GHz	15,945	\$623.00*
Intel Core i5-11400H @ 2.70GHz	15,926	\$250.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
AMD Ryzen 7 5700U	15,861	NA
Intel Core i5-11260H @ 2.60GHz	15,666	\$250.00*
Intel Core i7-11600H @ 2.90GHz	15,527	\$395.00*
Intel Core i9-10885H @ 2.40GHz	15,436	\$556.00*
AMD Ryzen 5 5600U	15,379	NA
AMD Ryzen 7 PRO 5875U	15,360	NA
Apple M2 8 Core 3500 MHz	15,357	NA
Intel Core i3-1220P	15,329	\$281.00*
AMD Ryzen 7 PRO 4750U	15,285	NA
Intel Core i7-10875H @ 2.30GHz	15,276	\$450.00*
AMD Ryzen 5 5560U	15,099	NA
AMD Ryzen 5 PRO 5650U	15,066	NA
AMD Ryzen 5 5625U	15,004	NA
Intel Core i7-10870H @ 2.20GHz	14,834	\$417.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i9-10880H @ 2.30GHz	14,736	NA
AMD Ryzen 5 4600H	14,624	NA
AMD Ryzen 5 4600HS	14,588	NA
AMD Ryzen 5 PRO 5675U	14,498	NA
Intel Core i5-1240U	14,323	NA
Apple M1 8 Core 3200 MHz	14,266	NA
Intel Core i7-1255U	13,853	\$426.00*
Intel Core i7-1265U	13,747	\$426.00*
Intel Core i5-1235U	13,648	\$309.00*

Intel Core i7-1250U	13,472	\$426.00*
AMD Ryzen 5 5500U	13,156	NA
 CPU Benchmarks ▼		
Intel Core i7-1260U	12,935	NA
Intel Xeon W-10855M @ 2.80GHz	12,904	\$450.00*
AMD Ryzen 5 PRO 4650U	12,802	NA
Intel Core i7-11375H @ 3.30GHz	12,280	\$482.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-10850H @ 2.70GHz	12,030	\$395.00*
Intel Core i7-11370H @ 3.30GHz	11,924	\$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,854	NA
AMD Ryzen 3 5425U	11,732	NA
Intel Core i5-10500H @ 2.50GHz	11,504	\$250.00*
Intel Core i3-1215U	11,484	NA
Intel Core i3-1210U	11,341	NA
AMD Ryzen 3 PRO 5475U	11,337	NA
AMD Ryzen 3 PRO 5450U	11,275	NA
Intel Core i5-1230U	11,105	\$309.00*
AMD Ryzen 5 4500U	11,048	NA
Intel Core i5-11300H @ 3.10GHz	11,045	\$309.00*
Intel Core i7-1195G7 @ 2.90GHz	11,018	\$426.00*
Intel Core i5-11320H @ 3.20GHz	10,988	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-1185G7 @ 3.00GHz	10,667	\$426.00*
AMD Ryzen 3 5400U	10,615	NA
Intel Core i7-11390H @ 3.40GHz	10,506	\$426.00*
Intel Core i7-1165G7 @ 2.80GHz	10,447	\$426.00*
Intel Core i5-1155G7 @ 2.50GHz	10,166	\$309.00*
Intel Core i5-1145G7 @ 2.60GHz	10,110	NA
AMD Ryzen 3 PRO 4450U	10,066	NA
Intel Core i7-1185G7E @ 2.80GHz	10,053	\$431.00*
Intel Core i5-1135G7 @ 2.40GHz	9,996	\$309.00*
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
AMD Ryzen 3 5300U	9,957	NA
Intel Core i7-1068NG7 @ 2.30GHz	9,891	\$426.00*
Intel Core i3-1125G4 @ 2.00GHz	9,884	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,441	\$320.00*
Intel Core i7-1265UE	9,392	\$472.00*
Intel Core i7-1160G7 @ 1.20GHz	9,205	\$426.00*
AMD Ryzen 3 7320U	9,064	NA
Intel Core i5-9500TE @ 2.20GHz	9,028	\$192.00*
Intel Core i5-1130G7 @ 1.10GHz	8,947	\$309.00*
Intel Core i5-10400H @ 2.60GHz	8,865	\$250.00*
Intel Core i7-8569U @ 2.80GHz	8,408	\$431.00*
Intel Core i7-1180G7 @ 1.30GHz	8,358	\$426.00*
Intel Core i5-10200H @ 2.40GHz	8,349	\$250.00*
Intel Core i7-10810U @ 1.10GHz	8,136	\$443.00*

Intel Core i5-8260U @ 1.60GHz	7,808	\$439.99*
Intel Pentium Gold 8505	7,600	NA
 CPU Benchmarks ▼		
Intel Core i3-10100T @ 3.00GHz	7,362	\$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-1060NG7 @ 1.20GHz	6,927	NA
Intel Core i7-10610U @ 1.80GHz	6,915	\$409.00*
AMD Ryzen 5 3450U	6,783	NA
Intel Core i5-10310U @ 1.70GHz	6,501	\$297.00*
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,448	NA
Intel Core i3-1115G4 @ 3.00GHz	6,192	\$281.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,171	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,909	NA
AMD Ryzen 3 3350U	5,892	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel Pentium Silver N6005 @ 2.00GHz	5,434	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,278	NA
Snapdragon 8c @ 2.46 GHz	5,230	NA
AMD Ryzen 5 3500C	5,207	NA
Intel Core i7-10510Y @ 1.20GHz	5,100	\$403.00*
Snapdragon 8cx @ 2.84 GHz	4,639	NA
AMD Athlon Silver 3050GE	4,545	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	\$122.00*
Intel Pentium 6805 @ 1.10GHz	4,448	\$161.00*
Intel Core i5-6350HQ @ 2.30GHz	4,255	\$306.00*
Intel Core i3-8140U @ 2.10GHz	4,227	NA
Intel Core i3-8145UE @ 2.20GHz	4,087	\$281.00*
AMD Athlon Gold 3150U	4,008	NA
AMD Ryzen 3 3250U	3,900	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,806	NA
Snapdragon 7c @ 1.96 GHz	3,628	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,482	NA
Intel Core i5-L16G7 @ 1.40GHz	3,441	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Celeron N5100 @ 1.10GHz	3,331	NA
AMD Athlon Gold 3150C	3,292	NA
Intel Core i3-10110Y @ 1.00GHz	3,269	\$287.00*
Intel Core i3-6167U @ 2.70GHz	3,156	NA
AMD Ryzen Embedded R1305G	3,109	NA
Snapdragon 7c @ 2.40 GHz	3,074	NA
AMD Ryzen 3 3250C	3,044	NA
AMD Athlon Silver 3050e	3,000	NA
AMD Athlon Silver 3050U	2,997	NA
AMD 3015e	2,691	NA
Snapdragon 850 @ 2.96 GHz	2,649	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,610	NA

Intel Celeron 7305	2,189	\$107.00*
Intel Celeron 6305 @ 1.80GHz	2,071	NA
 CPU Benchmarks 		
Intel Pentium 4425Y @ 1.70GHz	1,726	\$161.00*
Intel Celeron N4020C @ 1.10GHz	1,600	NA
Intel Celeron N4020 @ 1.10GHz	1,573	NA
Intel Celeron 5205U @ 1.90GHz	1,462	\$107.00*
Intel Pentium Dual T2390 @ 1.86GHz	745	NA
AMD E2-7015 APU	672	NA
AMD E2-7015	572	NA

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