

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

Top Gaming CPUs

CPU Mega List

CPU Mark

Price Performance

Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 17th of May 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	58,379	NA
Intel Core i9-13980HX	49,209	\$668.00*
AMD Ryzen 9 7845HX	46,859	NA
Intel Core i9-13900HX	46,190	\$668.00*
Intel Core i9-13950HX	45,455	\$590.00*
Intel Core i7-13850HX	37,956	\$428.00*
Intel Core i9-12900HX	35,459	\$606.00*
AMD Ryzen 7 7745HX	35,047	NA
Intel Core i7-12800HX	33,415	\$457.00*
Intel Core i7-13700HX	33,123	\$485.00*
Intel Core i9-12950HX	33,094	\$590.00*
Intel Core i7-13650HX	32,779	\$485.00*
AMD Ryzen 9 7940H	32,499	NA
Intel Core i9-13900H	31,404	\$617.00*
AMD Ryzen 9 7940HS	30,624	NA
Intel Core i7-12850HX	30,325	\$428.00*
Intel Core i7-13700H	30,090	\$502.00*
Intel Core i5-13600HX	29,716	\$284.00*
Intel Core i9-12900H	28,961	\$617.00*
Intel Core i9-12900HK	28,519	\$635.00*
AMD Ryzen 7 7840HS	28,429	NA
Intel Core i7-13800H	28,042	\$457.00*

<div> <div>Search Model</div> <div> <div> <div>Home</div> <div>CPU Benchmarks</div> <div> <div> <div>☆ Common</div> <div> <div>Most Benchmarked</div> <div> <div>AMD vs Intel Market Share</div> <div>Year on Year Performance</div> </div> </div> </div> </div> </div> </div></div>	<div> <div>Intel Core i7-13620H</div> <div>Intel Core i7-12700H</div> <div>Apple M2 Max 12 Core 3680 MHz</div> <div>Intel Core i9-13900HK</div> <div>AMD Ryzen 7 7735H</div> <div>Intel Core i5-13600H</div> <div>AMD Ryzen 9 6900HX</div> <div>Intel Core i7-12800H</div> <div>Intel Core i5-12600HX</div> <div>AMD Ryzen 7 7735HS</div> <div>Intel Core i7-12650H</div> <div>AMD Ryzen 9 6900HS</div> <div>AMD Ryzen 7 7736U</div> <div>AMD Ryzen 7 6800H</div> <div>AMD Ryzen 9 5980HX</div> <div>Intel Core i7-1370P</div> <div>AMD Ryzen 9 PRO 6950HS</div> <div>AMD Ryzen 7 PRO 6850H</div> <div>Intel Core i9-11980HK @ 2.60GHz</div> <div>AMD Ryzen 7 6800HS Creator Edition</div> <div>Intel Xeon W-11955M @ 2.60GHz</div> <div>Intel Core i5-12600H</div> <div>AMD Ryzen 7 6800HS</div> <div>Intel Core i5-13500H</div> <div>AMD Ryzen 9 5900HX</div> <div>AMD Ryzen 9 PRO 6950H</div> <div>AMD Ryzen 9 6900HS Creator Edition</div> <div>Intel Core i5-1350P</div> <div>Apple M1 Max 10 Core 3200 MHz</div> <div>AMD Ryzen 7 PRO 6850HS</div> <div>AMD Ryzen 9 5900HS</div> <div>Apple M1 Pro 10 Core 3200 MHz</div> <div>Apple M2 Pro 10 Core 3480 MHz</div> <div>Intel Core i9-11950H @ 2.60GHz</div> <div>Intel Core i5-12500H</div> <div>AMD Ryzen 7 5800H</div> <div>AMD Ryzen 7 5800HS Creator Edition</div> <div>Intel Core i5-1340P</div> <div>Intel Core i9-11900H @ 2.50GHz</div> <div>AMD Ryzen 7 7735U</div> <div>AMD Ryzen 9 5980HS</div> <div>AMD Ryzen 7 PRO 6860Z</div> <div>AMD Ryzen 9 5900H</div> <div>Intel Core i7-11800H @ 2.30GHz</div> <div>AMD Ryzen 7 PRO 6850U</div> <div>Intel Core i7-11850H @ 2.50GHz</div> <div>AMD Ryzen 7 6800U</div> <div>AMD Ryzen 7 5800HS</div> </div>	<div>27,439</div> <div>26,647</div> <div>26,216</div> <div>26,128</div> <div>25,496</div> <div>25,491</div> <div>24,928</div> <div>24,827</div> <div>24,397</div> <div>24,357</div> <div>24,153</div> <div>24,034</div> <div>23,860</div> <div>23,793</div> <div>23,648</div> <div>23,327</div> <div>23,295</div> <div>23,269</div> <div>23,143</div> <div>23,121</div> <div>23,029</div> <div>22,998</div> <div>22,959</div> <div>22,898</div> <div>22,826</div> <div>22,532</div> <div>22,489</div> <div>22,320</div> <div>22,109</div> <div>22,044</div> <div>21,978</div> <div>21,899</div> <div>21,739</div> <div>21,694</div> <div>21,546</div> <div>21,271</div> <div>21,166</div> <div>21,151</div> <div>21,105</div> <div>21,070</div> <div>21,058</div> <div>20,991</div> <div>20,960</div> <div>20,928</div> <div>20,893</div> <div>20,827</div> <div>20,668</div> <div>20,549</div>	<div>\$502.00*</div> <div>\$457.00*</div> <div>NA</div> <div>\$697.00*</div> <div>NA</div> <div>\$311.00*</div> <div>NA</div> <div>\$457.00*</div> <div>\$284.00*</div> <div>NA</div> <div>\$457.00*</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>\$583.00*</div> <div>NA</div> <div>\$623.00*</div> <div>\$311.00*</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>\$320.00*</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>\$556.00*</div> <div>\$311.00*</div> <div>NA</div> <div>NA</div> <div>\$353.00*</div> <div>\$546.00*</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>\$395.00*</div> <div>NA</div> <div>\$395.00*</div> <div>NA</div> <div>NA</div>
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CPU Benchmarks



Intel Core i7-1360P	20,518	\$480.00*
Intel Core i7-1280P	20,359	\$482.00*
AMD Ryzen 5 PRO 6650H	20,103	NA
Intel Core i5-13420H	19,950	\$342.00*
AMD Ryzen 5 7535HS	19,523	NA
AMD Ryzen 9 4900H	19,336	NA
AMD Ryzen 7 7730U	19,222	NA
AMD Ryzen 5 6600HS Creator Edition	19,080	NA
AMD Ryzen 5 6600H	19,074	NA
AMD Ryzen 7 5800U	18,702	NA
AMD Ryzen 7 5825U	18,566	NA
Intel Xeon W-11855M @ 3.20GHz	18,324	\$450.00*
AMD Ryzen 7 Extreme Edition	18,185	NA
Intel Core i5-12450H	17,962	\$311.00*
Intel Core i7-1270P	17,748	NA
Intel Core i5-1240P	17,591	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i7-1260P	17,409	NA
AMD Ryzen 7 PRO 5850U	17,365	NA
Intel Core i5-1335U	17,275	\$340.00*
AMD Ryzen 5 6600U	17,274	NA
AMD Ryzen 5 5600H	17,183	NA
Apple M1 Pro 8 Core 3200 MHz	17,183	NA
Intel Core i5-1345U	16,802	\$309.00*
AMD Ryzen 5 PRO 6650U	16,690	NA
AMD Ryzen 5 7535U	16,670	NA
Intel Core i5-12500TE	16,456	\$205.00*
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*
AMD Ryzen 5 7530U	16,315	NA
Intel Core i5-11500H @ 2.90GHz	16,095	\$250.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,919	\$395.00*
Intel Core i5-11400H @ 2.70GHz	15,901	\$250.00*
AMD Ryzen 7 5700U	15,852	NA
Intel Xeon W-10885M @ 2.40GHz	15,778	\$623.00*
Intel Core i5-11260H @ 2.60GHz	15,661	\$250.00*
Intel Core i7-12700TE	15,616	\$344.00*
AMD Ryzen 5 5600U	15,464	NA
Intel Core i9-10885H @ 2.40GHz	15,380	\$556.00*
Apple M2 8 Core 3500 MHz	15,319	NA
AMD Ryzen 7 PRO 4750U	15,261	NA
AMD Ryzen 5 5560U	15,255	NA
Intel Core i7-1365U	15,185	\$426.00*
AMD Ryzen 5 PRO 5650U	15,095	NA
Intel Core i7-1355U	15,052	\$469.00*
AMD Ryzen 5 5625U	15,050	NA



CPU Benchmarks



AMD Ryzen 5 PRO 5675U	14,896	NA
AMD Ryzen 5 PRO 4400G	14,795	NA
Intel Core i9-10880H @ 2.30GHz	14,736	NA
Intel Core i3-1220P	14,480	\$281.00*
Intel Core i5-1240U	14,323	NA
AMD Ryzen 5 4600HS	14,256	NA
Apple M1 8 Core 3200 MHz	14,156	NA
Intel Core i7-1255U	13,981	\$426.00*
Intel Core i7-1265U	13,877	\$426.00*
Intel Core i3-1315U	13,755	\$309.00*
Intel Core i5-1235U	13,688	\$309.00*
Intel Core i5-1245U	13,483	\$309.00*
AMD Ryzen 5 5500U	13,185	NA
Intel Core i7-1260U	13,019	NA
Intel Core i3-12100TE	12,961	\$125.00*
Intel Xeon W-10855M @ 2.80GHz	12,905	\$450.00*
AMD Ryzen 3 PRO 7330U	12,862	NA
AMD Ryzen 5 PRO 4650U	12,797	NA
Intel Core i7-1250U	12,774	\$426.00*
Intel Core i7-11375H @ 3.30GHz	12,239	\$482.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-10850H @ 2.70GHz	11,987	\$395.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,955	NA
Intel Core i7-11370H @ 3.30GHz	11,818	\$426.00*
AMD Ryzen 3 5425U	11,574	NA
AMD Ryzen 3 5400U	11,538	NA
Intel Core i5-10500H @ 2.50GHz	11,454	\$250.00*
AMD Ryzen 3 PRO 5475U	11,272	NA
Intel Core i3-1215U	11,226	NA
Intel Core i3-1210U	11,087	NA
Intel Core i7-1195G7 @ 2.90GHz	11,061	\$426.00*
Intel Core i5-11300H @ 3.10GHz	11,041	\$309.00*
AMD Ryzen 3 PRO 5450U	11,010	NA
Intel Core i5-11320H @ 3.20GHz	11,009	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-1185G7 @ 3.00GHz	10,618	\$426.00*
Intel Core i7-1265UE	10,573	\$472.00*
Intel Core i7-11390H @ 3.40GHz	10,557	\$426.00*
Intel Core i5-1230U	10,505	\$309.00*
AMD Ryzen 3 7330U	10,489	NA
Intel Core i7-1185G7E @ 2.80GHz	10,444	\$431.00*
Intel Core i7-1165G7 @ 2.80GHz	10,400	\$426.00*
Intel Core i3-N305	10,368	\$309.00*
Intel Core i5-1155G7 @ 2.50GHz	10,235	\$309.00*
AMD Ryzen 3 PRO 4450U	10,092	NA
Intel Core i5-1145G7 @ 2.60GHz	10,035	NA
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
Intel Core i5-1135G7 @ 2.40GHz	9,953	\$309.00*
Intel Core i3-1125G4 @ 2.00GHz	9,886	NA



CPU Benchmarks



AMD Ryzen 5 7520U	9,816	NA
AMD Ryzen 3 5300U	9,813	NA
Intel Core i7-1160G7 @ 1.20GHz	9,160	\$426.00*
Intel Core i5-9500TE @ 2.20GHz	9,028	\$192.00*
Intel Pentium Gold 8505	8,908	NA
Intel Core i5-1130G7 @ 1.10GHz	8,792	\$309.00*
Intel Core i5-10400H @ 2.60GHz	8,665	\$250.00*
Intel Core i7-1180G7 @ 1.30GHz	8,460	\$426.00*
Intel Core i5-10200H @ 2.40GHz	8,288	\$250.00*
Intel Core i7-10810U @ 1.10GHz	8,209	\$443.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i3-10100T @ 3.00GHz	7,343	\$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	6,893	\$409.00*
AMD Ryzen 5 3450U	6,758	NA
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,733	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,511	NA
Intel Core i3-1115G4 @ 3.00GHz	6,172	\$281.00*
AMD Ryzen 3 3350U	5,889	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel N95	5,523	NA
Intel Pentium Silver N6005 @ 2.00GHz	5,404	NA
AMD Ryzen 5 3500C	5,372	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,266	NA
Snapdragon 8c @ 2.46 GHz	5,230	NA
Intel Core i7-10510Y @ 1.20GHz	5,100	\$403.00*
AMD Athlon Gold 7220U	4,991	NA
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 Pentium 6805 @ 1.10GHz	4,424	\$161.00*
Intel Core i5-6350HQ @ 2.30GHz	4,255	\$306.00*
Intel Core i3-8140U @ 2.10GHz	4,227	NA
AMD Athlon PRO 300U	4,080	NA
Intel Core i3-8145UE @ 2.20GHz	4,074	\$281.00*
AMD Athlon Gold 3150U	4,029	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,728	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	3,374	NA
AMD Athlon Gold 3150C	3,292	NA
AMD Ryzen 3 3250C	3,208	NA
Intel Core i3-6167U @ 2.70GHz	3,156	NA
Snapdragon 850 @ 2.96 GHz	3,080	NA
Snapdragon 7c @ 2.40 GHz	3,074	NA
AMD Athlon Silver 3050e	3,031	NA



CPU Benchmarks



AMD Ryzen Embedded R1305G	2,980	NA
AMD 3015e	2,700	NA
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	1,710	\$161.00*
Intel Celeron N4020C @ 1.10GHz	1,535	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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