

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 24 months. Older laptop CPUs may not appear.

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CPUS	CPU Mark	Price Performance	Sorted by Date	
<div>High End</div> <div>High Mid Range</div> <div>Low Mid Range</div> <div>Low End</div>	PassMark - CPU Mark			
	Laptop & Portable CPU Performance			
	Updated 1st of October 2024			
<div>Best Value (On Market)</div> <div>Best Value XY Scatter</div> <div>Best Value (All time)</div>	CPU	CPU Mark		Price (USD)
<div>New Desktop</div> <div>New Laptop</div> <div>New Server</div> <div>New Mobile</div>	AMD Ryzen 9 7945HX3D	<div></div>	58,038	NA
	AMD Ryzen 9 7945HX	<div></div>	54,740	NA
	AMD Ryzen 9 7940HX	<div></div>	53,658	NA
	Intel Core i9-13980HX	<div></div>	47,308	\$668.00*
	Intel Core i9-14900HX	<div></div>	45,726	\$679.00*
	AMD Ryzen 9 7845HX	<div></div>	45,559	NA
	Intel Core i9-13900HX	<div></div>	44,213	\$668.00*
	Intel Core i9-13950HX	<div></div>	43,678	\$590.00*
	Apple M3 Max 16 Core	<div></div>	40,821	NA
	Intel Core i7-13850HX	<div></div>	38,012	\$428.00*
<div>Single Thread</div> <div>Systems with Multiple CPUs</div> <div>Overclocked</div> <div>Power Performance</div> <div>CPU Mark by Socket Type</div> <div>Cross-Platform CPU Performance</div> <div>Top Gaming CPUs</div>	Intel Core i7-14700HX	<div></div>	37,263	\$495.00*
	Intel Core i7-14650HX	<div></div>	36,757	\$495.00*
	Apple M3 Max 14 Core	<div></div>	36,481	NA
	AMD Ryzen AI 9 HX 370	<div></div>	35,780	NA
	Intel Core i7-13700HX	<div></div>	33,638	\$485.00*
	AMD Ryzen 7 7745HX	<div></div>	32,657	
	Intel Core i9-13900HX	<div></div>	31,590	\$697.00*
	Intel Core i7-13650HX	<div></div>	31,423	\$485.00*
	AMD Ryzen 9 PRO 8945HS	<div></div>	31,160	NA
	AMD Ryzen 9 8945H	<div></div>	30,800	NA
<div>CPU Mega List</div> <div>Search Model</div>	Intel Core i5-13500HX	<div></div>	30,580	\$326.00*
	AMD Ryzen 9 7940HS	<div></div>	30,369	NA
	Intel Core i9-13905H	<div></div>	30,184	\$697.00*
	AMD Ryzen AI 9 365	<div></div>	29,501	NA
	Intel Core Ultra 9 185H	<div></div>	29,447	NA
	AMD Ryzen 9 8945HS	<div></div>	29,337	NA
	AMD Ryzen 7 PRO 8845HS	<div></div>	29,329	NA
	AMD Ryzen 7 7840HS	<div></div>	28,915	NA
	Intel Core i9-13900H	<div></div>	28,779	\$617.00*
	AMD Ryzen 7 8845HS	<div></div>	28,778	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	AMD Ryzen 9 7940H	<div></div>	28,608	NA
	AMD Ryzen 7 7840H	<div></div>	28,373	NA
	AMD Ryzen 9 PRO 7940HS	<div></div>	28,072	NA
	AMD Ryzen 7 8845H	<div></div>	27,731	NA
	Intel Core i5-13600HX	<div></div>	27,606	\$284.00*
	AMD Ryzen 7 PRO 8840HS	<div></div>	27,495	NA
	Intel Core i7-13700H	<div></div>	27,258	\$502.00*
	Intel Core i7-13800H	<div></div>	27,089	\$457.00*
	AMD Ryzen 5 7645HX	<div></div>	26,868	NA
	Intel Core i5-14500HX	<div></div>	26,747	\$337.00*
<div>AMD vs Intel Market Share</div> <div>Year on Year Performance</div>	AMD Ryzen 7 PRO 7840HS	<div></div>	26,632	NA
	Apple M2 Max 12 Core 3680 MHz	<div></div>	26,592	NA
	Apple M2 Pro 12 Core 3480 MHz	<div></div>	26,523	NA
	Apple M3 Pro 12 Core	<div></div>	26,454	NA
	Snapdragon X Elite - X1E8010	<div></div>	26,323	NA
	Intel Core Ultra 7 165H	<div></div>	26,137	NA
	Intel Core i5-13450HX	<div></div>	25,525	\$326.00*
	Intel Core Ultra 7 155H	<div></div>	25,044	NA
	Intel Core i7-13620H	<div></div>	25,021	\$502.00*
	AMD Ryzen 7 7840U	<div></div>	24,935	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	AMD Ryzen 7 PRO 7840U	<div></div>	24,805	NA
	Apple M3 Pro 11 Core	<div></div>	24,771	NA
	AMD Ryzen 7 7840S	<div></div>	24,635	NA
	Intel Core i5-13600H	<div></div>	24,255	\$311.00*
	AMD Ryzen 7 7435HS	<div></div>	24,212	NA
	AMD Ryzen 7 8840HS	<div></div>	24,186	NA
	Qualcomm Snapdragon X Elite - X1E-84-100	<div></div>	24,111	NA
	AMD Ryzen 7 7735H	<div></div>	24,025	NA
	AMD Ryzen 7 7735HS	<div></div>	24,007	NA
	AMD Ryzen 7 8840U	<div></div>	23,817	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	AMD Ryzen 7 PRO 8840U	<div></div>	23,796	NA
	Intel Core i7-13705H	<div></div>	23,662	\$502.00*
	Qualcomm Snapdragon X Elite - X1E-80-100	<div></div>	23,285	NA
	Intel Core i7-13700TE	<div></div>	23,074	\$390.00*
	AMD Ryzen 5 7640HS	<div></div>	22,907	NA
	Intel Core Ultra 5 135H	<div></div>	22,822	NA
	AMD Ryzen 5 PRO 7640HS	<div></div>	22,778	NA
	Intel Core i5-13500H	<div></div>	22,699	NA
	Qualcomm Snapdragon X Elite - X1E-78-100	<div></div>	22,495	NA
	AMD Ryzen 5 8645HS	<div></div>	22,445	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	Intel Core Ultra 5 125H	<div></div>	22,368	NA
	AMD Ryzen 7 7736U	<div></div>	22,195	NA
	Qualcomm Snapdragon X Plus X1P-64-100	<div></div>	22,134	NA
	AMD Ryzen 5 PRO 8640HS	<div></div>	22,041	NA
	Apple M2 Pro 10 Core 3480 MHz	<div></div>	21,715	NA
	AMD Ryzen 5 PRO 7640U	<div></div>	21,287	NA
	AMD Ryzen 7 7735U	<div></div>	21,220	NA
	AMD Ryzen 5 7640U	<div></div>	21,193	NA
	AMD Ryzen 5 8640U	<div></div>	20,772	NA
	Intel Core i7-12650HX	<div></div>	20,612	\$472.00*
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	Intel Core i7-1370P	<div></div>	20,157	NA
	AMD Ryzen 7 Pro 7735U	<div></div>	19,895	NA
	AMD Ryzen 5 8640HS	<div></div>	19,512	NA
	Intel Core i5-1350P	<div></div>	19,439	\$320.00*
	Apple M3 8 Core	<div></div>	19,319	NA
	Intel Core i7-1360P	<div></div>	19,196	\$480.00*
	Intel Core Ultra 7 258V	<div></div>	19,168	NA
	AMD Ryzen 7 PRO 7730U	<div></div>	19,045	NA
	Intel Core i5-12450HX	<div></div>	19,023	NA
	Intel Core i5-1340P	<div></div>	18,846	\$353.00*
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	AMD Ryzen 5 7540U	<div></div>	18,749	NA
	AMD Ryzen 7 7730U	<div></div>	18,653	NA
	Intel Core i5-13420H	<div></div>	18,491	\$342.00*
	AMD Ryzen 5 PRO 8540U	<div></div>	18,409	NA
	AMD Ryzen 5 7535HS	<div></div>	18,399	NA
	AMD Ryzen 5 8540U	<div></div>	18,147	NA
	AMD Ryzen 5 PRO 7540U	<div></div>	18,071	NA
	AMD Ryzen 5 Pro 7535U	<div></div>	17,766	NA
	Intel Core Ultra 5 125U	<div></div>	17,690	\$363.00*
	Intel Core Ultra 5 135U	<div></div>	17,677	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	Intel Core Ultra 7 165U	<div></div>	17,487	NA
	AMD Ryzen 5 7535U	<div></div>	17,028	NA
	Intel Core Ultra 7 155U	<div></div>	16,810	\$490.00*
	AMD Ryzen 5 7530U	<div></div>	16,071	NA
	Intel Core 7 150U	<div></div>	15,982	NA
	AMD Ryzen 5 7430U	<div></div>	15,586	NA
	Intel Core i5-1345U	<div></div>	15,120	\$309.00*
	Intel Core Ultra 7 164U	<div></div>	15,106	NA
	Intel Core 3 100U	<div></div>	15,072	NA
	AMD Ryzen 5 PRO 7530U	<div></div>	15,042	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	Intel Core i7-1365U	<div></div>	14,857	\$426.00*
	Intel Core i7-1355U	<div></div>	14,810	\$469.00*
	Intel Core i5-1335U	<div></div>	14,742	\$340.00*
	Intel Core i5-1334U	<div></div>	13,371	\$340.00*
	AMD Ryzen 3 7440U	<div></div>	12,991	NA
	AMD Ryzen 3 8440U	<div></div>	12,805	NA
	Intel Core i5-1240U	<div></div>	12,778	NA
	AMD Ryzen 3 PRO 7330U	<div></div>	12,331	NA
	Intel Core i3-1315U	<div></div>	12,277	\$309.00*
	AMD Ryzen 3 7335U	<div></div>	12,168	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	AMD Ryzen 3 PRO 7335U	<div></div>	12,162	NA
	Intel Core Ultra 5 134U	<div></div>	11,783	\$332.00*
	Microsoft SQ3 @ 3.0 GHz	<div></div>	11,727	NA
	AMD Ryzen 5 5500H	<div></div>	11,661	NA
	AMD Ryzen 5 7235HS	<div></div>	11,176	NA
	AMD Ryzen 3 7330U	<div></div>	10,978	NA
	Intel Core i3-N305	<div></div>	9,974	\$309.00*
	Intel Core i7-1265UE	<div></div>	9,471	\$472.00*
	AMD Ryzen 5 7520U	<div></div>	9,229	NA
	AMD Ryzen 3 7320U	<div></div>	8,858	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	Intel Core i3-1305U	<div></div>	8,850	\$309.00*
	Intel Core i3-N300	<div></div>	8,693	\$309.00*
	AMD Ryzen 3 7320C	<div></div>	8,614	NA
	Intel U300	<div></div>	8,299	\$193.00*
	AMD Ryzen 5 Microsoft Surface Edition	<div></div>	7,243	NA
	Intel Core i3-1025G1 @ 1.20GHz	<div></div>	6,180	NA
	Intel N95	<div></div>	5,374	NA
	AMD Athlon Gold 7220U	<div></div>	4,740	NA
	Intel Core i7-6970HQ @ 2.80GHz	<div></div>	4,632	NA
	AMD Athlon PRO 300U	<div></div>	4,080	NA
<div>Compare</div> <div>Common</div> <div>Most Benchmarked</div>	Intel Core i3-6167U @ 2.70GHz	<div></div>	3,255	NA
	AMD Athlon Silver 7120U	<div></div>	3,209	NA
	ARM Cortex-A78 4 Core 2000 MHz	<div></div>	3,016	NA
	AMD Athlon PRO 3045B	<div></div>	2,618	NA
	AMD A4-1350 APU	<div></div>	911	NA
	AMD Turion X2 Dual-Core Mobile RM-76	<div></div>	799	NA

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