

PassMark CPU Benchmarks... x

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CPU Benchmarks

Over 1,000,000 CPUs Benchmarked




New Desktop CPU Performance

This chart comparing performance of CPUs designed for desktop machines is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

Notes:

- While we try to keep this chart mainly server and laptop CPU free, there might be some rogue processors in the list.
- The chart shows only CPUs that had their benchmark first submitted within the last 36 months. Older desktop CPUs may not appear.

 CPUS

CPU Mark Price Performance Sorted by Date

125%

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





CPU Mark Price Performance Sorted by Date

PassMark - CPU Mark

Desktop CPU Performance
Updated 31st of December 2020

CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 3995WX	88,731	NA
AMD Ryzen Threadripper 3990X	80,633	\$5,599.00
AMD Ryzen Threadripper 3970X	64,233	\$2,578.00
AMD Ryzen Threadripper PRO 3975WX	63,616	NA
AMD Ryzen Threadripper 3960X	55,527	\$1,349.99
AMD Ryzen 9 5950X	46,034	\$799.99
AMD Ryzen Threadripper PRO 3955WX	41,267	NA
AMD Ryzen 9 5900X	39,616	\$549.99

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-  **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**
-  **Compare** 0

Processor	Score	Price
AMD Ryzen 9 5900X	39,616	\$549.99
AMD Ryzen 9 3950X	39,272	\$719.99
AMD Ryzen Threadripper PRO 3945WX	34,740	NA
Intel Core i9-10980XE @ 3.00GHz	34,251	\$994.99
AMD Ryzen 9 3900XT	33,028	\$519.99
AMD Ryzen 9 3900X	32,869	\$549.79
Intel Core i9-9980XE @ 3.00GHz	32,130	\$1,054.00
Intel Core i9-9990XE @ 4.00GHz	31,941	NA
Intel Xeon W-3175X @ 3.10GHz	31,814	\$3,114.97
AMD Ryzen 9 PRO 3900	31,800	NA
AMD Ryzen Threadripper 2990WX	31,800	\$2,005.84
Intel Core i9-9960X @ 3.10GHz	31,025	\$1,099.99
AMD Ryzen 9 3900	30,883	NA
AMD Ryzen Threadripper 2950X	30,510	\$790.19
Intel Core i9-10940X @ 3.30GHz	29,332	\$789.99
AMD Ryzen 7 5800X	28,702	\$449.99
AMD Ryzen Threadripper 2970WX	28,637	\$1,255.66

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Compare ^U

Common

Most Benchmarked

AMD vs Intel Market Share

Year on Year Performance

AMD Ryzen Threadripper 2970WX		28,637	\$1,255.66
Intel Xeon W-2275 @ 3.30GHz		28,457	\$1,112.00*
Intel Core i9-9940X @ 3.30GHz		28,274	\$738.17
AMD Ryzen Threadripper 2990X		26,469	NA
Intel Core i9-10920X @ 3.50GHz		26,381	\$655.00
AMD Ryzen Threadripper 2920X		25,599	\$1,499.99
Intel Core i9-9920X @ 3.50GHz		25,218	\$590.66*
Intel Core i9-10900K @ 3.70GHz		24,101	\$514.89
AMD Ryzen 7 3800XT		23,986	\$373.01
Intel Core i9-10900KF @ 3.70GHz		23,936	\$589.99
AMD Ryzen 7 3800X		23,377	\$398.99
Intel Core i9-10850K @ 3.60GHz		23,319	\$399.99
AMD Ryzen 7 3700X		22,819	\$324.99
Intel Core i9-10900X @ 3.70GHz		22,691	\$559.99
Intel Xeon W-2255 @ 3.70GHz		22,676	\$778.00*
Intel Core i9-10910 @ 3.60GHz		22,240	NA
AMD Ryzen 5 5600X		22,199	\$299.00*
AMD Ryzen 7 PRO 3700		21,889	\$279.99*

125%

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AMD Ryzen 5 3600X		22,133	\$239.00
AMD Ryzen 7 PRO 3700		21,889	\$279.99*
Intel Core i9-9900X @ 3.50GHz		21,793	\$577.57*
Intel Core i9-10900 @ 2.80GHz		21,214	\$469.78
Intel Core i9-10900F @ 2.80GHz		21,135	\$419.99
AMD Ryzen 7 PRO 4750G		21,086	\$289.00*
AMD Ryzen 7 PRO 4700G		20,848	NA
AMD Ryzen 7 4700GE		20,671	NA
Intel Core i9-9820X @ 3.30GHz		20,544	\$558.95
AMD Ryzen 7 PRO 4750GE		20,377	NA
AMD Ryzen 7 4700G		20,130	NA
Intel Core i7-10700K @ 3.80GHz		19,626	\$359.99
Intel Core i7-10700KF @ 3.80GHz		19,579	\$374.50
Intel Core i9-9900KS @ 4.00GHz		19,530	\$1,965.00*
Intel Core i9-9900KF @ 3.60GHz		18,912	\$329.99
AMD Ryzen 5 3600XT		18,882	\$333.99
Intel Core i9-9900K @ 3.60GHz		18,866	\$359.99
AMD Ryzen 5 3600X		18,324	\$319.82
Intel Core i7-9800X @ 3.80GHz		18,293	\$549.99

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AMD Ryzen 5 3600X		18,324	\$319.82
Intel Core i7-9800X @ 3.80GHz		18,293	\$549.99
AMD Ryzen 5 PRO 3600		18,037	NA
AMD Ryzen 5 3600		17,861	\$199.99
AMD Ryzen 7 2700X		17,611	\$289.85
Intel Core i7-10700 @ 2.90GHz		17,520	\$346.33
AMD Ryzen 5 4600G		17,197	NA
Intel Core i9-9900 @ 3.10GHz		17,139	\$379.99
Intel Core i7-10700F @ 2.90GHz		17,070	\$319.99
AMD Ryzen 7 PRO 2700X		16,846	NA
Intel Core i9-10900T @ 1.90GHz		16,663	\$439.00*
AMD Ryzen 5 PRO 4650G		16,639	\$289.99
AMD Ryzen 5 PRO 4650GE		16,571	NA
AMD Ryzen 5 PRO 4400G		16,456	NA
AMD Ryzen 5 4600GE		16,377	NA
AMD Ryzen 7 2700		15,684	\$566.99
AMD Ryzen 7 PRO 2700		15,049	NA
Intel Core i5-10600KF @ 4.10GHz		14,890	\$251.89

125%

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Intel Core i5-10600KF @ 4.10GHz		14,890	\$251.89
Intel Core i7-9700KF @ 3.60GHz		14,672	\$308.99
AMD Ryzen 7 2700E		14,657	NA
Intel Core i5-10600K @ 4.10GHz		14,657	\$264.99
Intel Core i7-8086K @ 4.00GHz		14,645	\$691.76
Intel Core i7-9700K @ 3.60GHz		14,586	\$269.00
AMD Ryzen 5 2600X		14,075	\$189.44
Intel Core i5-10600 @ 3.30GHz		14,011	\$269.99
Intel Core i9-9900T @ 2.10GHz		13,844	\$439.00*
Intel Core i7-9700F @ 3.00GHz		13,808	\$260.44
AMD Ryzen 5 PRO 2600		13,662	NA
Intel Core i7-9700 @ 3.00GHz		13,563	\$254.99
AMD Ryzen 5 3500X		13,412	\$209.99
Intel Core i5-10500 @ 3.10GHz		13,338	\$217.99
AMD Ryzen 5 2600		13,209	\$139.99
AMD Ryzen 5 3500		12,818	NA
AMD Ryzen 3 3300X		12,761	\$199.99*
Intel Core i7-9700E @ 2.60GHz		12,754	\$323.00*

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AMD Ryzen 3 3300X		12,701	\$199.99**
Intel Core i7-9700E @ 2.60GHz		12,754	\$323.00*
Intel Core i7-10700T @ 2.00GHz		12,668	\$323.00*
Intel Core i5-10400F @ 2.90GHz		12,572	\$162.98
Intel Core i5-10400 @ 2.90GHz		12,493	\$179.99
Intel Core i5-10600T @ 2.40GHz		12,117	\$213.00*
AMD Ryzen 3 4300GE		11,878	NA
AMD Ryzen 3 3100		11,741	\$209.99
AMD Ryzen 3 4300G		11,552	NA
AMD Ryzen 3 PRO 4350GE		11,443	NA
AMD Ryzen 3 PRO 4350G		11,248	NA
Intel Core i5-9600KF @ 3.70GHz		10,918	\$199.99
Intel Core i7-9700T @ 2.00GHz		10,885	\$323.00*
Intel Core i7-8700T @ 2.40GHz		10,869	\$319.95
Intel Core i5-9600K @ 3.70GHz		10,864	\$195.99
Intel Core i5-10500T @ 2.30GHz		10,825	\$192.00*
Intel Core i7-9700TE @ 1.80GHz		10,680	\$323.00*
Intel Core i5-9600 @ 3.10GHz		10,589	\$233.42
Intel Core i5-10400T @ 2.00GHz		10,375	\$182.00*