



# CPU Benchmarks

Over 1,000,000 CPUs benchmarked

## High End CPUs - Intel vs AMD

This chart comparing high end CPUs is made using thousands of PerformanceTest benchmark results and is updated daily. These are the high end AMD and Intel CPUs are typically those found in newer computers. The chart below compares the performance of Intel Xeon CPUs, Intel Core i7/i9 CPUs, AMD Ryzen/Threadripper CPUs and AMD Epyc with multiple cores. Intel processors vs AMD chips - find out which CPUs performance is best for your new gaming rig or server!



- Home **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
- CPU Mega List
  - Search Model
- Compare 0

CPU Mark
Price Performance

### PassMark - CPU Mark

High End CPUs  
Updated 6th of June 2022

CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 5995WX	108,822	NA
AMD EPYC 7763	88,338	\$5,299.99
AMD EPYC 7J13	86,006	NA
AMD EPYC 7713	85,861	\$4,500.00
AMD Ryzen Threadripper PRO 3995WX	83,129	\$7,480.00
AMD Ryzen Threadripper 3990X	81,546	\$6,534.09
AMD Ryzen Threadripper PRO 5975WX	80,842	NA
AMD EPYC 7B13	77,460	NA
AMD EPYC 7643	76,455	\$5,424.99*
AMD EPYC 7702	71,646	\$3,500.00
AMD EPYC 7662	71,576	\$6,817.00*
AMD EPYC 7742	68,749	\$5,045.99
AMD EPYC 75F3	68,505	\$4,999.00
AMD Ryzen Threadripper PRO 5965WX	68,405	NA
AMD EPYC 7543P	67,212	\$2,999.00*
AMD EPYC 7R32	64,727	NA
AMD Ryzen Threadripper 3970X	63,763	\$1,999.99
AMD Ryzen Threadripper PRO 3975WX	63,304	\$4,077.00
Intel Xeon Platinum 8380 @ 2.30GHz	62,318	\$8,978.00*
AMD EPYC 7702P	61,689	\$2,522.73
AMD EPYC 74F3	60,948	\$4,798.95
AMD EPYC 7513	59,732	\$2,840.00*

Intel Xeon E5-1660 v2 @ 3.70GHz	10,268	\$1,798.95*
AMD EPYC 3201	10,258	NA

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Intel Core i5-8600K @ 3.60GHz	10,207	\$218.80
Intel Xeon D-1541 @ 2.10GHz	10,170	NA
AMD Ryzen 3 PRO 4450U	10,158	NA
Intel Core i3-10320 @ 3.80GHz	10,125	\$132.90
Intel Core i7-1068NG7 @ 2.30GHz	10,093	\$426.00*
Intel Core i5-1135G7 @ 2.40GHz	10,091	\$309.00*
Intel Core i7-10710U @ 1.10GHz	10,080	\$644.99*
Intel Core i5-1140G7 @ 1.10GHz	10,075	NA
Intel Core i7-8750H @ 2.20GHz	10,061	\$395.00*
Intel Core i5-10400T @ 2.00GHz	10,052	\$182.00*
AMD Ryzen 3 5300U	10,040	NA
Intel Xeon D-1540 @ 2.00GHz	10,040	NA
Intel Xeon E5-2650 v2 @ 2.60GHz	10,006	\$70.02
AMD Ryzen 3 5425U	9,989	NA
Intel Xeon W-2125 @ 4.00GHz	9,974	\$998.95*
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
Intel Xeon E5-2628L v3 @ 2.00GHz	9,949	NA
Intel Core i3-1125G4 @ 2.00GHz	9,927	NA
Intel Core i7-4960X @ 3.60GHz	9,906	\$1,250.00
Intel Xeon E-2234 @ 3.60GHz	9,903	\$294.99*
Intel Core i7-7740X @ 4.30GHz	9,864	\$235.99
Intel Core i5-8600 @ 3.10GHz	9,861	\$256.69
Intel Xeon E5-2690 @ 2.90GHz	9,847	\$175.50
Intel Xeon E5-2648L v3 @ 1.80GHz	9,847	\$1,530.37*
Intel Core i7-5820K @ 3.30GHz	9,820	\$255.36
Intel Xeon E5-2687W @ 3.10GHz	9,790	\$192.00
Intel Xeon E5-2689 @ 2.60GHz	9,766	\$182.75*
Intel Core i5-9500 @ 3.00GHz	9,719	\$198.87
Intel Xeon E-2244G @ 3.80GHz	9,713	\$413.00*
Intel Core i3-10305 @ 3.80GHz	9,689	\$159.99
AMD Ryzen 5 3350GE	9,684	NA
Intel Core i7-7700K @ 4.20GHz	9,664	\$395.00
Intel Xeon E-2274G @ 4.00GHz	9,660	\$334.00*
AMD Ryzen 5 PRO 3350GE	9,643	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,637	\$320.00*
Intel Xeon E-2174G @ 3.80GHz	9,596	\$309.99
Intel Core i5-8500 @ 3.00GHz	9,561	\$190.00
Intel Core i5-9400F @ 2.90GHz	9,536	\$129.99
AMD Ryzen 5 PRO 3350G	9,487	NA
Intel Core i5-9400 @ 2.90GHz	9,483	\$129.99
Intel Xeon Gold 5222 @ 3.80GHz	9,428	\$1,476.32*
Intel Core i5-8500B @ 3.00GHz	9,411	\$192.00*
AMD Ryzen 5 PRO 1500	9,402	NA
AMD Ryzen 5 2500X	9,387	NA
Intel Xeon E5-4655 v3 @ 2.90GHz	9,377	\$4,616.00*
Intel Xeon E5-2680 @ 2.70GHz	9,367	\$85.55
Intel Core i7-4930K @ 3.40GHz	9,356	\$179.74

Intel Core i7-4930K @ 3.40GHz	9,356	\$173.71
Intel Core i5-1130G7 @ 1.10GHz	9,349	\$309.00*

## 🏠 CPU Benchmarks ▼

Intel Xeon E-2144G @ 3.60GHz	9,322	\$301.17*
Intel Xeon E5-4627 v2 @ 3.30GHz	9,320	\$498.95
AMD Ryzen 5 PRO 3400G	9,307	NA
Intel Xeon E3-1285 v6 @ 4.10GHz	9,276	\$545.16
Intel Xeon Silver 4108 @ 1.80GHz	9,262	\$489.95
Intel Xeon D-1567 @ 2.10GHz	9,236	NA
Intel Core i5-8400 @ 2.80GHz	9,228	\$159.99
Intel Xeon D-1587 @ 1.70GHz	9,223	NA
Intel Xeon E3-1275 v6 @ 3.80GHz	9,220	\$419.99
Intel Xeon E5-2651 v2 @ 1.80GHz	9,216	\$278.10*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Xeon E5-2620 v4 @ 2.10GHz	9,187	\$399.00
Intel Xeon E3-1280 v6 @ 3.90GHz	9,166	\$592.18*
Intel Core i3-10300 @ 3.70GHz	9,153	\$129.99
Intel Core i7-1185GRE @ 2.80GHz	9,142	NA
Intel Xeon E5-2629 v3 @ 2.40GHz	9,139	\$499.88*
Intel Core i3-10105F @ 3.70GHz	9,119	\$78.99
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Xeon D-1715TER @ 2.40GHz	9,104	\$285.00*
Intel Xeon E5-2643 v2 @ 3.50GHz	9,083	\$398.95
AMD Ryzen 5 1500X	9,081	\$79.90
Intel Xeon D-1548 @ 2.00GHz	9,075	\$555.00*
AMD Ryzen 5 3350G	9,067	NA
Intel Xeon E5-4648 v3 @ 1.70GHz	9,061	NA
ARM Neoverse-N1 12 Core 0 MHz	9,031	NA
Intel Xeon E5-2630L v3 @ 1.80GHz	9,011	\$79.00*
AMD Ryzen 5 3400GE	8,985	NA
Intel Core i7-6700K @ 4.00GHz	8,972	\$227.00
Intel Core i5-10400H @ 2.60GHz	8,938	\$250.00*
Intel Xeon E5-2670 @ 2.60GHz	8,921	\$71.00
Intel Core i3-10105 @ 3.70GHz	8,914	\$111.98
Intel Core i5-3170K @ 3.20GHz	8,882	NA
Intel Xeon E3-1270 v6 @ 3.80GHz	8,862	\$316.99
Intel Xeon E3-1240 v6 @ 3.70GHz	8,850	\$370.45
Intel Core i3-10100F @ 3.60GHz	8,843	\$78.00
Intel Core i3-10100 @ 3.60GHz	8,793	\$99.95
Intel Xeon Gold 5122 @ 3.60GHz	8,771	\$905.68
Intel Core i7-8809G @ 3.10GHz	8,757	NA
Intel Core i7-8559U @ 2.70GHz	8,747	\$617.00*
Intel Xeon E-2134 @ 3.50GHz	8,741	\$297.32
AMD Ryzen 5 2400G	8,715	\$154.99
Intel Xeon W-2223 @ 3.60GHz	8,703	\$309.99
ARM X-Gene 32 Core 3300 MHz	8,684	NA
Intel Core i5-10300H @ 2.50GHz	8,671	\$250.00*
Intel Core i7-7700 @ 3.60GHz	8,642	\$205.80
Intel Xeon E3-1245 v6 @ 3.70GHz	8,639	\$301.99