

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

CPU List

Below is an alphabetical list of all CPU types that appear in the charts. Clicking on a specific processor name will take you to the chart it appears in and will highlight it for you. Results for [Single CPU Systems](#) and [Multiple CPU Systems](#) are listed separately.

AD

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

Single CPU Systems

Multi CPU Systems

Single CPU Systems

Last updated on the 2nd of July 2020

Column

CPU Name	CPU Mark (higher is better) ▲	Rank (lower is better)	CPU Value (higher is better)	Price (USD)
AMD Ryzen Threadripper 3990X	80,664	1	26.89	\$3,000.00
AMD EPYC 7702	71,362	2	11.74	\$6,080.00
AMD EPYC 7742	66,679	3	8.95	\$7,453.60
AMD EPYC 7702P	63,910	4	13.05	\$4,895.95
AMD Ryzen Threadripper 3970X	63,425	5	33.38	\$1,899.99
AMD Ryzen Threadripper 3960X	55,919	6	41.42	\$1,349.99
AMD EPYC 7452	53,075	7	20.45	\$2,595.95
AMD EPYC 7502P	47,949	8	18.48	\$2,595.00
AMD Ryzen 9 3950X	39,339	9	56.44	\$697.00
AMD EPYC 7402P	39,019	10	19.92	\$1,958.99
Intel Xeon W-3275M @ 2.50GHz	38,961	11	5.23	\$7,453.00*
AMD EPYC 7302P	38,825	12	41.52	\$934.99
Intel Xeon Gold 6248R @ 3.00GHz	38,521	13	14.27	\$2,700.00*
Intel Core i9-10980XE @ 3.00GHz	34,468	14	35.21	\$979.00*
Intel Xeon Platinum 8168 @ 2.70GHz	33,843	15	5.75	\$5,890.00*

 Common

 CPU Benchmarks

 AMD vs Intel
Market Share
Year on Year
Performance

AD

<u>Intel Xeon W-3265 @ 2.70GHz</u>	33,503	16	7.36	\$4,551.37*
CPU Name	CPU Mark (higher is better)	Rank (lower is better)	CPU Value (higher is better)	Price (USD)
Intel Xeon Platinum 8268 @ 2.90GHz	32,504	17	7.60	\$6,145.08*
<u>AMD Ryzen 9 3900X</u>	32,833	19	<u>78.93</u>	<u>\$415.99</u>
<u>AMD Ryzen 9 PRO 3900</u>	32,008	20	NA	NA
<u>Intel Xeon Platinum 8259CL @ 2.50GHz</u>	31,745	21	NA	NA
<u>AMD Ryzen Threadripper 2990WX</u>	31,730	22	<u>21.15</u>	<u>\$1,499.99</u>
<u>Intel Xeon W-2295 @ 3.00GHz</u>	31,724	23	<u>23.80</u>	<u>\$1,333.00*</u>
<u>Intel Core i9-9980XE @ 3.00GHz</u>	31,509	24	<u>16.58</u>	<u>\$1,900.00</u>
<u>Intel Xeon Gold 6248 @ 2.50GHz</u>	31,285	25	<u>9.42</u>	<u>\$3,321.99</u>
<u>Intel Core i9-9960X @ 3.10GHz</u>	30,988	26	<u>19.37</u>	<u>\$1,599.99</u>
<u>Intel Xeon Gold 6254 @ 3.10GHz</u>	30,965	27	<u>8.55</u>	<u>\$3,620.00*</u>
<u>AMD Ryzen 9 3900</u>	30,597	28	NA	NA
<u>Intel Xeon Gold 6212U @ 2.40GHz</u>	30,570	29	<u>15.29</u>	<u>\$2,000.00*</u>
<u>AMD Ryzen Threadripper 2950X</u>	30,350	30	<u>38.03</u>	<u>\$798.00</u>
<u>Intel Xeon Gold 6210U @ 2.50GHz</u>	30,193	31	<u>14.66</u>	<u>\$2,059.86*</u>
<u>Intel Core i9-7980XE @ 2.60GHz</u>	29,848	32	<u>17.57</u>	<u>\$1,699.00*</u>
<u>Intel Core i9-10940X @ 3.30GHz</u>	29,046	33	<u>16.14</u>	<u>\$1,799.99*</u>
<u>AMD EPYC 7262</u>	28,706	34	<u>38.84</u>	<u>\$738.99</u>
<u>Intel Xeon Platinum 8173M @ 2.00GHz</u>	28,699	35	NA	NA
<u>Intel Core i9-9940X @ 3.30GHz</u>	28,121	36	<u>30.21</u>	<u>\$930.96</u>
<u>Intel Xeon Platinum 8175M @ 2.50GHz</u>	27,947	37	NA	NA
<u>Intel Core i9-7960X @ 2.80GHz</u>	27,661	38	<u>17.29</u>	<u>\$1,600.00*</u>
<u>Intel Xeon Gold 6154 @ 3.00GHz</u>	27,568	39	<u>7.53</u>	<u>\$3,659.82*</u>
<u>Intel Xeon W-3235 @ 3.30GHz</u>	27,232	40	<u>17.07</u>	<u>\$1,595.45*</u>
<u>Intel Xeon Gold 6246 @ 3.30GHz</u>	27,205	41	<u>8.21</u>	<u>\$3,315.49*</u>
<u>Intel Xeon Gold 6226R @ 2.90GHz</u>	26,842	42	<u>20.65</u>	<u>\$1,300.00*</u>
<u>AMD Ryzen Threadripper 1950X</u>	26,810	43	<u>33.97</u>	<u>\$789.17</u>
<u>Intel Xeon Gold 6242 @ 2.80GHz</u>	26,760	44	<u>9.77</u>	<u>\$2,737.99*</u>
<u>Intel Xeon Platinum 8124M @ 3.00GHz</u>	26,686	45	NA	NA
<u>Intel Xeon Gold 6208U @ 2.90GHz</u>	26,677	46	<u>26.97</u>	<u>\$989.00*</u>
<u>Intel Core i9-7940X @ 3.10GHz</u>	26,662	47	<u>33.37</u>	<u>\$799.00</u>
<u>AMD Ryzen Threadripper 2970WX</u>	26,494	48	<u>22.21</u>	<u>\$1,193.03</u>
<u>AMD EPYC 7272</u>	26,454	49	<u>32.94</u>	<u>\$802.99</u>
<u>Intel Core i9-10920X @ 3.50GHz</u>	26,324	50	<u>29.25</u>	<u>\$899.95*</u>
<u>Intel Xeon Gold 6143 @ 2.80GHz</u>	25,983	51	NA	NA

	<u>CPU Mark</u> (Higher is better)	<u>Rank</u> (Lower is better)	<u>CPU Value</u> (Higher is better)	<u>Price</u> (USD)
<u>Intel Xeon Gold 6230 @ 2.10GHz</u>	25,602	54	<u>19.94</u>	<u>\$1,284.02*</u>
<u>AMD Ryzen Threadripper 2920X</u>	25,440	55	<u>48.64</u>	<u>\$523.00</u>
<u>Intel Xeon Gold 6148 @ 2.40GHz</u>	25,299	56	<u>7.86</u>	<u>\$3,217.99*</u>
<u>Intel Xeon Gold 6138 @ 2.00GHz</u>	25,279	57	<u>9.69</u>	<u>\$2,609.49</u>
<u>Intel Xeon Gold 6138T @ 2.00GHz</u>	24,800	58	<u>9.04</u>	<u>\$2,742.00*</u>
<u>Intel Xeon W-2195 @ 2.30GHz</u>	24,621	59	<u>9.08</u>	<u>\$2,710.78*</u>
<u>Intel Xeon W-2170B @ 2.50GHz</u>	24,425	60	NA	NA
<u>Intel Xeon Platinum 8176 @ 2.10GHz</u>	24,299	61	<u>2.78</u>	<u>\$8,725.00*</u>
<u>Intel Xeon Gold 6146 @ 3.20GHz</u>	24,126	62	<u>5.23</u>	<u>\$4,608.95*</u>
<u>Intel Xeon Platinum 8160 @ 2.10GHz</u>	24,107	63	<u>5.37</u>	<u>\$4,489.00*</u>
<u>Intel Core i9-10900K @ 3.70GHz</u>	24,094	64	<u>22.95</u>	<u>\$1,050.00*</u>
<u>Intel Xeon Gold 6140 @ 2.30GHz</u>	23,831	65	<u>8.32</u>	<u>\$2,863.75*</u>
<u>AMD EPYC 7401P</u>	23,813	66	<u>24.30</u>	<u>\$980.00</u>
<u>Intel Xeon W-2175 @ 2.50GHz</u>	23,808	67	<u>11.35</u>	<u>\$2,098.36*</u>
<u>Intel Xeon Gold 6132 @ 2.60GHz</u>	23,774	68	<u>10.96</u>	<u>\$2,169.95*</u>
<u>Intel Core i9-7920X @ 2.90GHz</u>	23,739	69	<u>34.97</u>	<u>\$678.90</u>
<u>AMD EPYC 7551P</u>	23,581	70	<u>11.64</u>	<u>\$2,026.70</u>
<u>Intel Core i9-10900KF @ 3.70GHz</u>	23,528	71	<u>50.82</u>	<u>\$463.00*</u>
<u>Intel Xeon Gold 6152 @ 2.10GHz</u>	23,367	72	<u>5.69</u>	<u>\$4,108.95*</u>
<u>AMD Ryzen 7 3800X</u>	23,304	73	<u>72.83</u>	<u>\$319.98</u>
<u>Intel Xeon W-2255 @ 3.70GHz</u>	23,256	74	<u>29.89</u>	<u>\$778.00*</u>
<u>Intel Xeon E5-2679 v4 @ 2.50GHz</u>	23,197	75	<u>8.59</u>	<u>\$2,702.00*</u>
<u>Intel Core i9-10900X @ 3.70GHz</u>	23,162	76	<u>35.50</u>	<u>\$652.37</u>
<u>AMD Ryzen Threadripper 1920X</u>	22,941	77	<u>72.18</u>	<u>\$317.82</u>
<u>AMD EPYC 7371</u>	22,859	78	<u>12.64</u>	<u>\$1,808.99</u>
<u>AMD Ryzen 7 3700X</u>	22,709	79	<u>83.04</u>	<u>\$273.47</u>
<u>Intel Xeon Gold 5218 @ 2.30GHz</u>	22,670	80	<u>18.60</u>	<u>\$1,218.88</u>
<u>AMD Ryzen 7 PRO 3700</u>	22,295	81	NA	NA
<u>Intel Xeon Gold 6136 @ 3.00GHz</u>	22,156	82	<u>8.35</u>	<u>\$2,654.82*</u>
<u>AMD EPYC 7571</u>	22,125	83	NA	NA
<u>Intel Core i9-9900X @ 3.50GHz</u>	21,873	84	<u>28.97</u>	<u>\$754.98</u>
<u>Intel Core i9-7900X @ 3.30GHz</u>	21,302	85	<u>16.40</u>	<u>\$1,299.00*</u>
<u>AMD EPYC 7351</u>	21,261	86	<u>22.38</u>	<u>\$950.00</u>

	<u>CPU Mark</u> (Higher is better)	<u>Rank</u> (Lower is better)	<u>CPU Value</u> (Higher is better)	<u>Price</u> (USD)
<u>Intel Xeon W-2155 @ 3.30GHz</u>				<u>\$1,530.39*</u>
<u>Intel Xeon W-2150B @ 3.00GHz</u>	20,727	89	NA	NA
<u>Intel Core i9-9820X @ 3.30GHz</u>	20,691	90	<u>35.35</u>	<u>\$585.32</u>
<u>Intel Xeon Silver 4216 @ 2.10GHz</u>	20,656	91	<u>19.00</u>	<u>\$1,086.99</u>
<u>Intel Xeon Gold 6137 @ 3.90GHz</u>	20,300	92	NA	NA
<u>Intel Core i7-7900X @ 3.30GHz</u>	20,293	93	NA	NA
<u>AMD Ryzen 9 4900H</u>	20,249	94	NA	NA
<u>Intel Xeon Gold 6126 @ 2.60GHz</u>	20,151	95	<u>10.98</u>	<u>\$1,834.95*</u>
<u>Intel Core i9-10900 @ 2.80GHz</u>	20,115	96	<u>31.93</u>	<u>\$629.99</u>
<u>AMD EPYC 7501</u>	20,094	97	<u>6.11</u>	<u>\$3,286.95</u>
<u>Intel Core i7-10700K @ 3.80GHz</u>	19,857	99	<u>48.43</u>	<u>\$409.99</u>
<u>Intel Core i7-10700KF @ 3.80GHz</u>	19,857	98	<u>56.90</u>	<u>\$349.00*</u>
<u>AMD Ryzen 9 4900HS</u>	19,749	100	NA	NA
<u>Intel Xeon W-2245 @ 3.90GHz</u>	19,747	101	<u>29.61</u>	<u>\$667.00*</u>
<u>Intel Xeon D-2187NT @ 2.00GHz</u>	19,632	102	<u>9.87</u>	<u>\$1,989.00*</u>
<u>AMD EPYC 7551</u>	19,606	103	<u>14.05</u>	<u>\$1,395.00</u>
<u>Intel Xeon Gold 6144 @ 3.50GHz</u>	19,557	104	<u>6.15</u>	<u>\$3,181.17*</u>
<u>Intel Xeon Gold 6130 @ 2.10GHz</u>	19,534	105	<u>10.11</u>	<u>\$1,932.10</u>
<u>Intel Core i9-9900KS @ 4.00GHz</u>	19,372	106	<u>29.80</u>	<u>\$649.99*</u>
<u>Intel Xeon D-2183IT @ 2.20GHz</u>	19,273	107	<u>10.93</u>	<u>\$1,764.00*</u>
<u>Intel Xeon E5-2682 v4 @ 2.50GHz</u>	19,244	108	NA	NA
<u>AMD Ryzen 7 4800H</u>	19,080	109	NA	NA
<u>Intel Xeon E5-2699 v4 @ 2.20GHz</u>	18,931	110	<u>7.96</u>	<u>\$2,378.00</u>
<u>Intel Core i9-9900K @ 3.60GHz</u>	18,898	111	<u>39.37</u>	<u>\$479.99</u>
<u>AMD Ryzen 7 4800HS</u>	18,872	112	NA	NA
<u>Intel Xeon E5-2699 v3 @ 2.30GHz</u>	18,823	113	<u>23.56</u>	<u>\$799.00</u>
<u>Intel Core i9-9900KF @ 3.60GHz</u>	18,822	114	<u>32.74</u>	<u>\$574.89</u>
<u>Intel Xeon E5-2695 v4 @ 2.10GHz</u>	18,723	115	<u>18.02</u>	<u>\$1,039.00</u>
<u>Intel Xeon W-2145 @ 3.70GHz</u>	18,440	116	<u>15.27</u>	<u>\$1,207.59*</u>
<u>AMD Ryzen 5 3600X</u>	18,317	117	<u>83.26</u>	<u>\$219.99</u>
<u>Intel Core i7-9800X @ 3.80GHz</u>	18,304	118	<u>46.53</u>	<u>\$393.35</u>
<u>Intel Xeon E5-2696 v3 @ 2.30GHz</u>	18,255	119	<u>7.31</u>	<u>\$2,498.00*</u>
<u>AMD Ryzen 5 PRO 3600</u>	18,205	120	NA	NA
<u>Intel Xeon Gold 5120T @ 2.20GHz</u>	18,045	121	<u>10.45</u>	<u>\$1,727.00*</u>