

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

CPU Mark by Socket Type

These charts compares CPUs by socket type is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

- CPU Sockets is the connector on the motherboard to which the CPU connects to and they determine which CPUs are compatible with which motherboards.
- While a CPU may fit a certain socket type, it is best to refer to the motherboard's datasheet to determine if it supported.
- Intel socket names typically refers to the number of pins of the socket/CPU.
- Sockets below are broken down by platform and are arranged from oldest to newest. The year the socket was introduced is listed underneath the socket name. Click on a socket name to see the CPUs that can be used with that socket type.

 **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

 **CPU Mega List**

Search Model

 **Compare** ⁰

 **Common**

Desktop:										
Intel:	PGA 478 <i>(2001)</i>	LGA 775 <i>(2004)</i>	LGA 771 <i>(2006)</i>	LGA 1156 <i>(2009)</i>	LGA 1155 <i>(2011)</i>	LGA 1150 <i>(2013)</i>	LGA 1151 <i>(2015)</i>	LGA 1151-v2 <i>(2017)</i>		
AMD:	AM2/AM2+ <i>(2006/2007)</i>		AM3/AM3+ <i>(2009/2011)</i>		FM1 <i>(2011)</i>	FM2/FM2+ <i>(2012/2014)</i>		AM4 <i>(2017)</i>	sTR4 <i>(2017)</i>	
Mobile:										
Intel:	BGA 479 <i>(2004)</i>	PGA 988A <i>(2008)</i>	PGA 988B <i>(2011)</i>	BGA 1023 <i>(2011)</i>	PGA 946 <i>(2013)</i>	BGA 1168 <i>(2013)</i>	BGA 1364 <i>(2013)</i>	BGA 1356 <i>(2017)</i>	BGA 1440 <i>(2018)</i>	
AMD:	S1 <i>(2006)</i>		FS1 <i>(2011)</i>		FP4 <i>(2015)</i>		FP5 <i>(2018)</i>			
Server:										
Intel:	LGA 1366 <i>(2008)</i>		LGA 2011 <i>(2011)</i>		LGA 1356 <i>(2012)</i>		LGA 2011-v3 <i>(2014)</i>		LGA 3647 <i>(2016)</i>	LGA 2066 <i>(2017)</i>
AMD:	G34 <i>(2011)</i>				SP3 <i>(2017)</i>					

PassMark - CPU Mark

Socket LGA775 CPU Performance

CPU	CPU Mark	Price (USD)
Intel Core2 Extreme X9770 @ 3.20GHz	4,608	\$1,608.95*
Intel Xeon X3380 @ 3.16GHz	4,600	\$509.95*
Intel Xeon X3370 @ 3.00GHz	4,293	\$367.02*
Intel Core2 Extreme X9650 @ 3.00GHz	4,157	\$859.99*
Intel Core2 Quad Q9650 @ 3.00GHz	4,153	\$109.11
Intel Core2 Quad Q9550 @ 2.83GHz	3,961	\$44.49*
Intel Core2 Quad Q9705 @ 3.16GHz	3,947	NA

Most
Benchmarked

 CPU Benchmarks ▼

 Market Share

Intel Xeon X3360 @ 2.83GHz	3,925	\$157.95*
Intel Xeon X3353 @ 2.66GHz	3,853	\$73.50*
Intel Xeon L3360 @ 2.83GHz	3,764	\$89.23*
Intel Core2 Quad Q9450 @ 2.66GHz	3,757	\$35.70*
Intel Core2 Extreme Q6800 @ 2.93GHz	3,655	\$1,125.00*
Intel Core2 Extreme Q6850 @ 3.00GHz	3,622	\$1,495.95*
Intel Core2 Quad Q9500 @ 2.83GHz	3,520	\$34.99*
Intel Core2 Quad Q9505 @ 2.83GHz	3,520	\$190.00*
Intel Xeon X3230 @ 2.66GHz	3,397	\$71.50*
Intel Xeon X3330 @ 2.66GHz	3,340	\$210.00*
Intel Core2 Quad Q9400 @ 2.66GHz	3,337	\$48.03*
Intel Xeon X3320 @ 2.50GHz	3,306	\$229.50*
Intel Core2 Quad Q6700 @ 2.66GHz	3,278	\$44.99*
Intel Xeon X3323 @ 2.50GHz	3,177	\$19.36*
Intel Core2 Quad Q8400 @ 2.66GHz	3,162	\$239.95*
Intel Core2 Quad Q9300 @ 2.50GHz	3,152	\$199.50*
Intel Xeon X3220 @ 2.40GHz	3,088	\$60.15*
Intel Core2 Quad Q8300 @ 2.50GHz	2,979	\$49.99*
Intel Core2 Quad Q6600 @ 2.40GHz	2,946	\$39.98*
Intel Core2 Quad Q8200 @ 2.33GHz	2,806	\$22.99*
Intel Xeon X3210 @ 2.13GHz	2,740	\$185.71*
Intel Xeon E3113 @ 3.00GHz	2,427	\$9.79*
Intel Core2 Duo E8600 @ 3.33GHz	2,398	\$42.45*
Intel Core2 Duo E8290 @ 2.83GHz	2,353	NA
Intel Core2 Duo E8500 @ 3.16GHz	2,281	\$39.99*
Intel Xeon L3110 @ 3.00GHz	2,273	NA
Intel Xeon E3120 @ 3.16GHz	2,241	NA
Intel Xeon E3110 @ 3.00GHz	2,159	\$22.99*
Intel Core2 Duo E8400 @ 3.00GHz	2,148	\$45.50*
Intel Core2 Duo E8300 @ 2.83GHz	1,987	\$19.99*
Intel Pentium E6800 @ 3.33GHz	1,974	\$89.00*
Intel Core2 Duo E7600 @ 3.06GHz	1,959	\$119.95*
Intel Core2 Duo E6850 @ 3.00GHz	1,946	\$49.99*
Intel Pentium E6700 @ 3.20GHz	1,932	\$29.99
Intel Pentium E5800 @ 3.20GHz	1,887	\$22.50
Intel Core2 Duo E8200 @ 2.66GHz	1,882	\$49.99*
Intel Core2 Extreme X6800 @ 2.93GHz	1,875	\$263.64*
Intel Core2 Duo E7500 @ 2.93GHz	1,873	\$14.99*
Intel Pentium E6600 @ 3.06GHz	1,861	\$100.00*
Intel Xeon 3070 @ 2.66GHz	1,784	\$408.95*
Intel Core2 Duo E7400 @ 2.80GHz	1,770	\$28.99*
Intel Pentium E6500 @ 2.93GHz	1,765	\$157.95*
Intel Pentium E5700 @ 3.00GHz	1,738	\$14.99*
Intel Core2 Duo E7300 @ 2.66GHz	1,727	\$39.88*
Intel Core2 Duo E6750 @ 2.66GHz	1,712	\$10.30*

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Intel Pentium E6300 @ 2.80GHz	1,705	\$10.30*
Intel Core2 Duo E6700 @ 2.66GHz	1,693	\$29.99*
Intel Core2 Duo E7200 @ 2.53GHz	1,624	\$49.00*
Intel Pentium E5400 @ 2.70GHz	1,597	\$17.76
Intel Xeon 3085 @ 3.00GHz	1,570	NA
Intel Core2 Duo E6600 @ 2.40GHz	1,554	\$14.99*
Intel Pentium E5300 @ 2.60GHz	1,540	\$22.99
Intel Xeon 3065 @ 2.33GHz	1,520	\$20.90*
Intel Xeon 3060 @ 2.40GHz	1,518	\$22.99*
Intel Core2 Duo E6550 @ 2.33GHz	1,497	\$14.95*
Intel Pentium E5200 @ 2.50GHz	1,486	\$59.95
Intel Core2 Duo E4700 @ 2.60GHz	1,481	\$26.99*
Intel Celeron E3500 @ 2.70GHz	1,454	\$39.99*
Intel Core2 Duo E6540 @ 2.33GHz	1,451	NA
Intel Celeron E3400 @ 2.60GHz	1,440	\$610.00*
Intel Celeron E3300 @ 2.50GHz	1,389	\$24.98
Intel Core2 Duo E4600 @ 2.40GHz	1,383	\$157.95*
Intel Celeron E3200 @ 2.40GHz	1,382	\$51.99*
Intel Core2 Duo E6420 @ 2.13GHz	1,359	\$49.99*
Intel Pentium E2220 @ 2.40GHz	1,330	\$85.99*
Intel Xeon 3050 @ 2.13GHz	1,300	\$157.95*
Intel Core2 Duo E6400 @ 2.13GHz	1,288	\$29.95*
Intel Xeon 3040 @ 1.86GHz	1,278	\$25.04*
Intel Core2 Duo E4500 @ 2.20GHz	1,271	\$71.25*
Intel Celeron E1600 @ 2.40GHz	1,255	NA
Intel Pentium E2200 @ 2.20GHz	1,202	\$75.00*
Intel Core2 Duo E6320 @ 1.86GHz	1,185	\$49.99*
Intel Pentium E2210 @ 2.20GHz	1,174	NA
Intel Celeron E1500 @ 2.20GHz	1,168	\$19.65
Intel Core2 Duo E4400 @ 2.00GHz	1,157	\$49.99*
Intel Core2 Duo E6300 @ 1.86GHz	1,108	\$12.99*
Intel Pentium E2180 @ 2.00GHz	1,088	\$29.99*
Intel Celeron E1400 @ 2.00GHz	1,053	\$69.99
Intel Core2 Duo E4300 @ 1.80GHz	1,051	\$159.95*
Intel Pentium E2160 @ 1.80GHz	998	\$15.51
Intel Pentium Extreme Edition 965 @ 3.73GHz	961	NA
Intel Pentium Extreme Edition 955 @ 3.46GHz	912	\$759.00*
Intel Pentium E2140 @ 1.60GHz	871	\$46.25
Intel Celeron E1200 @ 1.60GHz	860	\$99.99
Intel Pentium D 960 @ 3.60GHz	811	NA
Intel Pentium D 950 @ 3.40GHz	742	NA
Intel Pentium D 940 @ 3.20GHz	709	NA
Intel Pentium D 830 @ 3.00GHz	642	NA
Intel Celeron 450 @ 2.20GHz	626	\$29.99*
Intel Celeron D 430 @ 1.80GHz	585	NA
Intel Pentium D 915 @ 2.80GHz	584	NA
Intel Celeron 440 @ 2.00GHz	544	\$16.99
Intel Pentium D 805 @ 2.66GHz	529	NA

Intel Celeron 430 @ 1.80GHz	487	\$47.18
Intel Celeron D 420 @ 1.60GHz	481	NA
Intel Celeron D 365 @ 3.60GHz	404	\$89.95*
Intel Celeron D 360 @ 3.46GHz	337	NA
Intel Celeron D 356 @ 3.33GHz	315	NA
Intel Celeron D 352 @ 3.20GHz	302	NA
Intel Celeron D 347 @ 3.06GHz	270	NA

 CPU Benchmarks ▼

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Zoom Search Engine	USB Short Circuit Testers	Android Benchmarks			
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