

# 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.

### Single CPU Systems *Last Updated: 16th of January 2020*

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| <input type="text"/>                            |                           | <div><div>1</div><div>60000</div></div> |                             | <div><div>1</div><div>4000</div></div> |                                | <div><div>1</div><div>400</div></div> |                               |                             | AM2/AM3 ▼      | <div>▼</div> |
| <a href="#">AMD Phenom II X6 1405T</a>          | NA                        | 5042                                    | NA                          | 1055                                   | NA                             | 95                                    | 53                            | Jan 2018                    | AM2+,AM3       | Desktop      |
| <a href="#">AMD Phenom II X4 B70</a>            | NA                        | 4261                                    | NA                          | 1190                                   | NA                             | 65                                    | 65                            | Jun 2016                    | AM2+ (938-pin) | Desktop      |
| <a href="#">AMD Phenom II X4 B65</a>            | NA                        | 4172                                    | NA                          | 1183                                   | NA                             | NA                                    | NA                            | Jan 2011                    | AM2+/AM3       | Desktop      |
| <a href="#">AMD Phenom II X4 B97</a>            | <a href="#">\$56.99*</a>  | 3863                                    | <a href="#">67.80</a>       | 1104                                   | 19.38                          | 95                                    | 40                            | Sep 2010                    | AM2+/AM3       | Desktop      |
| <a href="#">AMD Phenom II X4 B55</a>            | NA                        | 3852                                    | NA                          | 1111                                   | NA                             | NA                                    | NA                            | Feb 2010                    | AM2+/AM3       | Desktop      |
| <a href="#">AMD Phenom II X4 B50</a>            | NA                        | 3696                                    | NA                          | 1094                                   | NA                             | NA                                    | NA                            | Jun 2009                    | AM2+/AM3       | Desktop      |
| <a href="#">AMD Phenom FX-7750 Quad-Core</a>    | NA                        | 3616                                    | NA                          | NA                                     | NA                             | 95                                    | 38                            | Feb 2012                    | AM2+           | Unknown      |
| <a href="#">AMD Phenom II X4 840T</a>           | <a href="#">\$69.99*</a>  | 3596                                    | <a href="#">51.39</a>       | 1038                                   | 14.84                          | 95                                    | 37                            | Nov 2010                    | AM2+/AM3       | Unknown      |
| <a href="#">AMD Phenom II X4 940</a>            | <a href="#">\$59.34*</a>  | 3587                                    | <a href="#">60.45</a>       | 1024                                   | 17.26                          | 125                                   | 28                            | Jan 2009                    | AM2+           | Desktop      |
| <a href="#">AMD Phenom II X4 850</a>            | <a href="#">\$64.99*</a>  | 3549                                    | <a href="#">54.62</a>       | 1116                                   | 17.19                          | 95                                    | 37                            | Jul 2011                    | AM2+/AM3       | Unknown      |
| <a href="#">AMD Phenom II X4 840</a>            | <a href="#">\$89.95</a>   | 3508                                    | <a href="#">39.00</a>       | 1099                                   | 12.22                          | 95                                    | 36                            | Feb 2011                    | AM2+/AM3       | Desktop      |
| <a href="#">Quad-Core AMD Opteron 1389</a>      | NA                        | 3446                                    | NA                          | 1000                                   | NA                             | 75                                    | 45                            | Feb 2014                    | AM2            | Server       |
| <a href="#">Quad-Core AMD Opteron 1385</a>      | <a href="#">\$54.00*</a>  | 3442                                    | <a href="#">63.75</a>       | 953                                    | 17.66                          | 115                                   | 29                            | Aug 2014                    | AM2+,AM3       | Server       |
| <a href="#">AMD Phenom II X4 830</a>            | <a href="#">\$79.95*</a>  | 3434                                    | <a href="#">42.95</a>       | 949                                    | 11.87                          | 95                                    | 36                            | Jul 2010                    | AM2+/AM3       | Unknown      |
| <a href="#">AMD Phenom II X4 920</a>            | <a href="#">\$79.99*</a>  | 3389                                    | <a href="#">42.38</a>       | 964                                    | 12.05                          | 125                                   | 27                            | Jan 2009                    | AM2+           | Desktop      |
| <a href="#">AMD Phenom II X4 B35</a>            | NA                        | 3387                                    | NA                          | 995                                    | NA                             | NA                                    | NA                            | Nov 2009                    | AM2+/AM3       | Desktop      |
| <a href="#">AMD Phenom II X4 B25</a>            | NA                        | 3297                                    | NA                          | 921                                    | NA                             | NA                                    | NA                            | Nov 2009                    | AM2+/AM3       | Desktop      |
| <a href="#">AMD Phenom II X3 B77</a>            | <a href="#">\$22.29*</a>  | 3067                                    | <a href="#">137.64</a>      | 1126                                   | 50.53                          | 95                                    | 32                            | Apr 2012                    | AM2+/AM3       | Unknown      |
| <a href="#">AMD Phenom 9950 Quad-Core</a>       | <a href="#">\$134.99*</a> | 3009                                    | <a href="#">22.30</a>       | 890                                    | 6.60                           | 125                                   | 24                            | Nov 2008                    | AM2+           | Desktop      |
| <a href="#">AMD Athlon II X4 655</a>            | NA                        | 2998                                    | NA                          | 1128                                   | NA                             | 95                                    | 31                            | Jan 2014                    | AM2+ (940-pin) | Unknown      |
| <a href="#">AMD Phenom X4 Quad-Core GP-9730</a> | NA                        | 2897                                    | NA                          | 876                                    | NA                             | NA                                    | NA                            | Oct 2016                    | AM2+ (940-pin) | Desktop      |
| <a href="#">AMD Phenom 9850 Quad-Core</a>       | <a href="#">\$119.99*</a> | 2886                                    | <a href="#">24.06</a>       | 848                                    | 7.07                           | 125                                   | 23                            | Nov 2008                    | AM2+           | Desktop      |
| <a href="#">AMD Phenom 9750 Quad-Core</a>       | <a href="#">\$29.49*</a>  | 2811                                    | <a href="#">95.33</a>       | 833                                    | 28.28                          | 125                                   | 22                            | Dec 2008                    | AM2+           | Desktop      |
| <a href="#">AMD Opteron 1356</a>                | <a href="#">\$89.99*</a>  | 2765                                    | <a href="#">30.73</a>       | 840                                    | 9.34                           | 75                                    | 36                            | May 2009                    | AM2            | Server       |
| <a href="#">AMD Phenom II X4 B15e</a>           | NA                        | 2736                                    | NA                          | 872                                    | NA                             | NA                                    | NA                            | Nov 2010                    | AM2+/AM3       | Desktop      |
| <a href="#">AMD Phenom 9750B Quad-Core</a>      | NA                        | 2709                                    | NA                          | 834                                    | NA                             | 95                                    | 28                            | Sep 2009                    | AM2+           | Desktop      |
| <a href="#">AMD Phenom II X3 715</a>            | <a href="#">\$84.99*</a>  | 2649                                    | <a href="#">31.17</a>       | NA                                     | NA                             | 95                                    | 27                            | Nov 2010                    | AM2+           | Desktop      |

| CPU Name | Price <a href="#">1</a> | CPU Mark | CPU Value <a href="#">2</a> | Thread Mark | Thread Value <a href="#">3</a> | TDP (W) | Power Perf. <a href="#">4</a> | Test Date <a href="#">5</a> | Socket | Category |
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|--------------------------------------------------|-----------------------------|------|-----------------------|------|-------|-----|----|----------|----------------|---------|
| <a href="#">AMD Phenom 9600 Quad-Core</a>        | <a href="#">\$135.00*</a>   | 2630 | <a href="#">19.49</a> | 768  | 5.69  | 75  | 35 | Mar 2009 | AM2            | Server  |
| <a href="#">AMD Phenom 9450e Quad-Core</a>       | <a href="#">\$105.00*</a>   | 2599 | <a href="#">24.76</a> | 758  | 7.22  | 65  | 39 | Mar 2010 | AM2+           | Desktop |
| <a href="#">AMD Phenom 9600B Quad-Core</a>       | <a href="#">\$147.19*</a>   | 2575 | <a href="#">17.50</a> | 791  | 5.38  | 95  | 27 | Mar 2009 | AM2+           | Desktop |
| <a href="#">AMD Phenom 9550 Quad-Core</a>        | <a href="#">\$28.99*</a>    | 2544 | <a href="#">87.78</a> | 760  | 26.24 | 95  | 26 | Dec 2008 | AM2+           | Desktop |
| <a href="#">AMD Phenom FX-5000 Quad-Core</a>     | NA                          | 2517 | NA                    | 716  | NA    | 65  | 38 | Oct 2009 | AM2+           | Unknown |
| <a href="#">AMD Athlon X3 455</a>                | NA                          | 2401 | NA                    | 762  | NA    | 95  | 25 | Oct 2012 | AM2+/AM3       | Unknown |
| <a href="#">AMD Phenom 9350e Quad-Core</a>       | <a href="#">\$3,382.07*</a> | 2320 | <a href="#">0.69</a>  | 671  | 0.20  | 65  | 35 | Feb 2009 | AM2+           | Desktop |
| <a href="#">AMD Opteron 1352</a>                 | <a href="#">\$135.99*</a>   | 2316 | <a href="#">17.04</a> | 749  | 5.51  | 75  | 30 | Mar 2009 | AM2            | Server  |
| <a href="#">AMD Phenom 9600 Quad-Core</a>        | <a href="#">\$49.95*</a>    | 2303 | <a href="#">46.12</a> | 790  | 15.82 | 95  | 24 | Dec 2008 | AM2+           | Desktop |
| <a href="#">AMD Phenom X4 Quad-Core GP-9600</a>  | NA                          | 2235 | NA                    | 665  | NA    | 95  | 23 | Jul 2009 | AM2+           | Desktop |
| <a href="#">AMD Phenom II X2 565</a>             | <a href="#">\$209.95*</a>   | 2225 | <a href="#">10.60</a> | 1118 | 5.33  | 80  | 27 | Jan 2011 | AM2+/AM3       | Desktop |
| <a href="#">AMD Phenom 9500 Quad-Core</a>        | <a href="#">\$28.99*</a>    | 2202 | <a href="#">75.97</a> | 756  | 26.08 | 95  | 23 | Nov 2008 | AM2+           | Desktop |
| <a href="#">AMD Phenom II X2 B59</a>             | <a href="#">\$44.04*</a>    | 2124 | <a href="#">48.25</a> | 1136 | 25.80 | 80  | 26 | Jan 2012 | AM2+/AM3       | Unknown |
| <a href="#">AMD Phenom 9150e Quad-Core</a>       | <a href="#">\$39.95*</a>    | 2112 | <a href="#">52.87</a> | 620  | 15.54 | 65  | 32 | Feb 2009 | AM2+           | Desktop |
| <a href="#">AMD Phenom II X2 511</a>             | NA                          | 2104 | NA                    | 1153 | NA    | 65  | 32 | Feb 2011 | AM2+/AM3       | Unknown |
| <a href="#">AMD Phenom II X2 521</a>             | NA                          | 2071 | NA                    | 1129 | NA    | 65  | 31 | Jun 2011 | AM2+/AM3       | Unknown |
| <a href="#">AMD Phenom II X2 560</a>             | <a href="#">\$64.99*</a>    | 2062 | <a href="#">31.74</a> | 1097 | 16.88 | 80  | 25 | Oct 2010 | AM2+/AM3       | Unknown |
| <a href="#">AMD Phenom 8750 Triple-Core</a>      | NA                          | 2058 | NA                    | 813  | NA    | 95  | 21 | Feb 2009 | AM2+           | Desktop |
| <a href="#">AMD Phenom II X2 555</a>             | <a href="#">\$27.98*</a>    | 2043 | <a href="#">73.03</a> | 1069 | 38.23 | 80  | 25 | Feb 2010 | AM2+/AM3       | Desktop |
| <a href="#">AMD Phenom 8750B Triple-Core</a>     | NA                          | 2034 | NA                    | 805  | NA    | 95  | 21 | May 2009 | AM2+           | Desktop |
| <a href="#">AMD Phenom 8450e Triple-Core</a>     | NA                          | 2026 | NA                    | 702  | NA    | 65  | 31 | Oct 2009 | AM2+           | Desktop |
| <a href="#">AMD Phenom II X2 550</a>             | <a href="#">\$49.99*</a>    | 2023 | <a href="#">40.48</a> | 1065 | 21.32 | 80  | 25 | Jun 2009 | AM2+/AM3       | Desktop |
| <a href="#">AMD Phenom X4 Quad-Core GP-9530</a>  | NA                          | 1994 | NA                    | 381  | NA    | NA  | NA | Oct 2016 | AM2+ (940-pin) | Desktop |
| <a href="#">AMD Phenom 8650 Triple-Core</a>      | <a href="#">\$49.99*</a>    | 1985 | <a href="#">39.71</a> | 785  | 15.71 | 95  | 20 | Dec 2008 | AM2+           | Desktop |
| <a href="#">AMD Phenom 8850 Triple-Core</a>      | NA                          | 1968 | NA                    | 896  | NA    | 95  | 20 | Aug 2010 | AM2+           | Desktop |
| <a href="#">AMD Phenom X3 8550</a>               | <a href="#">\$169.95*</a>   | 1931 | <a href="#">11.36</a> | 742  | 4.37  | 95  | 20 | May 2009 | AM2/AM2+       | Desktop |
| <a href="#">AMD Phenom 8600B Triple-Core</a>     | <a href="#">\$52.99*</a>    | 1919 | <a href="#">36.22</a> | 764  | 14.43 | 95  | 20 | Apr 2009 | AM2+           | Desktop |
| <a href="#">AMD Phenom II X2 545</a>             | <a href="#">\$43.98*</a>    | 1918 | <a href="#">43.62</a> | 1026 | 23.34 | 80  | 23 | Aug 2009 | AM2+/AM3       | Desktop |
| <a href="#">AMD Phenom 8450 Triple-Core</a>      | <a href="#">\$29.95*</a>    | 1888 | <a href="#">63.07</a> | 721  | 24.08 | 95  | 19 | Dec 2008 | AM2+           | Desktop |
| <a href="#">AMD Phenom 9100e Quad-Core</a>       | <a href="#">\$39.95*</a>    | 1833 | <a href="#">45.89</a> | 624  | 15.64 | 65  | 28 | Feb 2009 | AM2+           | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 6400+</a> | <a href="#">\$259.95*</a>   | 1784 | <a href="#">6.87</a>  | 970  | 3.73  | 125 | 14 | Nov 2008 | AM2            | Desktop |
| <a href="#">AMD Opteron 1222</a>                 | NA                          | 1757 | NA                    | 938  | NA    | 103 | 17 | Jul 2010 | AM2            | Server  |
| <a href="#">AMD Phenom X4 Quad-Core GP-9500</a>  | NA                          | 1757 | NA                    | 619  | NA    | 95  | 18 | Mar 2009 | AM2+           | Desktop |
| <a href="#">AMD Athlon 7850 Dual-Core</a>        | <a href="#">\$209.65*</a>   | 1710 | <a href="#">8.16</a>  | 955  | 4.56  | 95  | 18 | May 2009 | AM2+           | Desktop |
| <a href="#">AMD Phenom 8600 Triple-Core</a>      | <a href="#">\$52.99*</a>    | 1675 | <a href="#">31.62</a> | 772  | 14.58 | 95  | 17 | Feb 2009 | AM2+           | Desktop |
| <a href="#">AMD Athlon II X2 245</a>             | <a href="#">\$34.95*</a>    | 1661 | <a href="#">47.54</a> | 953  | 27.28 | 65  | 25 | Jul 2009 | AM2+/AM3       | Desktop |
| <a href="#">AMD Opteron 1220</a>                 | NA                          | 1661 | NA                    | 885  | NA    | 103 | 16 | Sep 2009 | AM2            | Server  |
| <a href="#">AMD Phenom 8400 Triple-Core</a>      | NA                          | 1632 | NA                    | 717  | NA    | 95  | 17 | Mar 2009 | AM2+           | Desktop |

| CPU Name | Price <a href="#">1</a> | CPU Mark | CPU Value <a href="#">2</a> | Thread Mark | Thread Value <a href="#">3</a> | TDP (W) | Power Perf. <a href="#">4</a> | Test Date <a href="#">5</a> | Socket | Category |
|----------|-------------------------|----------|-----------------------------|-------------|--------------------------------|---------|-------------------------------|-----------------------------|--------|----------|
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 CPU Benchmarks 

|                                                    |                           |      |                       |     |       |     |    |          |          |         |
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| <a href="#">AMD Athlon X2 200</a>                  |                           |      |                       |     |       |     |    |          |          |         |
| <a href="#">AMD Athlon 64 X2 Dual Core 6000+</a>   | <a href="#">\$45.95</a>   | 1602 | <a href="#">34.87</a> | 899 | 19.57 | 89  | 18 | Nov 2008 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 FX-62 Dual Core</a>      | NA                        | 1573 | NA                    | 862 | NA    | 125 | 12 | Feb 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 7750 Dual-Core</a>          | <a href="#">\$152.99*</a> | 1571 | <a href="#">10.27</a> | 898 | 5.87  | 95  | 16 | Jan 2009 | AM2+     | Desktop |
| <a href="#">Athlon 64 Dual Core 5600+</a>          | NA                        | 1548 | NA                    | 886 | NA    | 65  | 23 | Feb 2010 | AM2      | Desktop |
| <a href="#">AMD Sempron X2 190</a>                 | <a href="#">\$83.44*</a>  | 1534 | <a href="#">18.39</a> | 867 | 10.40 | 45  | 34 | Jun 2012 | AM2+/AM3 | Unknown |
| <a href="#">AMD Athlon II X2 225</a>               | NA                        | 1526 | NA                    | NA  | NA    | 65  | 23 | Jun 2012 | AM2+/AM3 | Unknown |
| <a href="#">AMD Athlon II X2 4450e</a>             | NA                        | 1504 | NA                    | 934 | NA    | 45  | 33 | Sep 2010 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 5600+</a>   | <a href="#">\$179.95</a>  | 1485 | <a href="#">8.25</a>  | 849 | 4.72  | 89  | 16 | Nov 2008 | AM2      | Desktop |
| <a href="#">AMD Athlon 7550 Dual-Core</a>          | <a href="#">\$60.00*</a>  | 1472 | <a href="#">24.54</a> | 846 | 14.10 | 95  | 15 | May 2009 | AM2+     | Desktop |
| <a href="#">AMD Opteron 1218</a>                   | NA                        | 1468 | NA                    | 800 | NA    | 103 | 14 | May 2010 | AM2      | Server  |
| <a href="#">AMD Athlon 64 X2 Dual Core 5400+</a>   | <a href="#">\$52.99*</a>  | 1451 | <a href="#">27.38</a> | 846 | 15.97 | 65  | 22 | Nov 2008 | AM2      | Desktop |
| <a href="#">AMD Athlon 7450 Dual-Core</a>          | NA                        | 1449 | NA                    | 808 | NA    | 95  | 15 | Apr 2009 | AM2+     | Desktop |
| <a href="#">AMD Opteron 1218 HE</a>                | NA                        | 1444 | NA                    | NA  | NA    | 65  | 22 | Aug 2010 | AM2      | Server  |
| <a href="#">AMD Athlon Dual Core 5400B</a>         | NA                        | 1420 | NA                    | 842 | NA    | 65  | 21 | Jun 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon Dual Core 4850B</a>         | NA                        | 1391 | NA                    | 767 | NA    | 45  | 30 | Oct 2010 | AM2+     | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 5200+</a>   | <a href="#">\$60.00</a>   | 1382 | <a href="#">23.04</a> | 809 | 13.49 | 65  | 21 | Nov 2008 | AM2      | Desktop |
| <a href="#">Athlon 64 Dual Core 4800+</a>          | NA                        | 1370 | NA                    | NA  | NA    | 110 | 12 | Oct 2010 | AM2      | Desktop |
| <a href="#">Athlon Dual Core 4850e</a>             | NA                        | 1346 | NA                    | 765 | NA    | 45  | 29 | Apr 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon Dual Core 5050e</a>         | <a href="#">\$60.00*</a>  | 1345 | <a href="#">22.43</a> | 784 | 13.08 | 45  | 29 | Feb 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon Dual Core 5200B</a>         | NA                        | 1316 | NA                    | 818 | NA    | 65  | 20 | Apr 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon Dual Core 4850e</a>         | <a href="#">\$39.00*</a>  | 1315 | <a href="#">33.74</a> | 752 | 19.30 | 45  | 29 | Feb 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 5000+</a>   | <a href="#">\$331.49*</a> | 1314 | <a href="#">3.96</a>  | 782 | 2.36  | 65  | 20 | Dec 2008 | AM2      | Desktop |
| <a href="#">AMD Opteron 1216</a>                   | <a href="#">\$54.85*</a>  | 1311 | <a href="#">23.91</a> | 719 | 13.11 | 103 | 12 | Feb 2009 | AM2      | Server  |
| <a href="#">AMD Athlon Dual Core 5000B</a>         | <a href="#">\$95.00*</a>  | 1308 | <a href="#">13.77</a> | 783 | 8.25  | 65  | 20 | May 2009 | AM2      | Desktop |
| <a href="#">AMD Opteron 1212 HE</a>                | NA                        | 1308 | NA                    | NA  | NA    | 65  | 20 | Mar 2012 | AM2      | Server  |
| <a href="#">AMD Athlon Dual Core 5600B</a>         | NA                        | 1304 | NA                    | 895 | NA    | 65  | 20 | Mar 2012 | AM2+     | Desktop |
| <a href="#">AMD Opteron 1214 HE</a>                | NA                        | 1299 | NA                    | 674 | NA    | 65  | 19 | Nov 2015 | AM2      | Server  |
| <a href="#">AMD Athlon 5000 Dual-Core</a>          | <a href="#">\$119.95</a>  | 1292 | <a href="#">10.78</a> | 746 | 6.22  | 65  | 19 | Oct 2009 | AM2,AM2+ | Desktop |
| <a href="#">AMD Athlon 5200 Dual-Core</a>          | <a href="#">\$29.99*</a>  | 1266 | <a href="#">42.23</a> | 756 | 25.21 | 75  | 16 | Dec 2010 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 4800+</a>   | <a href="#">\$459.95*</a> | 1253 | <a href="#">2.73</a>  | 746 | 1.62  | 65  | 19 | Nov 2008 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 4600+</a>   | <a href="#">\$359.95*</a> | 1219 | <a href="#">3.39</a>  | 725 | 2.02  | 65  | 18 | Dec 2008 | AM2      | Desktop |
| <a href="#">Dual-Core AMD Opteron 1220 SE</a>      | NA                        | 1206 | NA                    | 748 | NA    | 103 | 11 | Aug 2016 | AM2      | Server  |
| <a href="#">Athlon Dual Core 4450e</a>             | NA                        | 1204 | NA                    | 706 | NA    | 45  | 26 | Dec 2009 | AM2      | Desktop |
| <a href="#">AMD Opteron 1214</a>                   | <a href="#">\$290.00*</a> | 1191 | <a href="#">4.11</a>  | 683 | 2.36  | 103 | 11 | Nov 2009 | AM2      | Server  |
| <a href="#">AMD Opteron 1216 HE</a>                | NA                        | 1172 | NA                    | 704 | NA    | 65  | 18 | Jul 2012 | AM2      | Server  |
| <a href="#">AMD Athlon Dual Core 4450B</a>         | <a href="#">\$31.00*</a>  | 1168 | <a href="#">37.68</a> | 687 | 22.18 | 45  | 25 | Mar 2009 | AM2+     | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 4400+</a>   | <a href="#">\$59.99*</a>  | 1145 | <a href="#">19.10</a> | 690 | 11.52 | 65  | 17 | Dec 2008 | AM2      | Desktop |
| <a href="#">AMD Athlon Dual Core 4450e</a>         | NA                        | 1111 | NA                    | 671 | NA    | 45  | 24 | Feb 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon X2 Dual Core BE-2350</a>    | NA                        | 1109 | NA                    | 641 | NA    | 45  | 24 | Mar 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon64 X2 Dual Core 4600+</a>    | NA                        | 1108 | NA                    | 603 | NA    | 110 | 10 | May 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 4200+</a>   | <a href="#">\$204.95*</a> | 1096 | <a href="#">5.35</a>  | 666 | 3.25  | 89  | 12 | Nov 2008 | AM2      | Desktop |
| <a href="#">AMD Athlon Dual Core 4050e</a>         | NA                        | 1086 | NA                    | 640 | NA    | 45  | 24 | Feb 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core BE-2300</a> | NA                        | 1082 | NA                    | 585 | NA    | 45  | 24 | Nov 2011 | AM2      | Desktop |

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|----------------------------------------------------|---------------------------|------|-----------------------|-----|-------|-----|----|----------|----------|---------|
| <a href="#">AMD Athlon 64 X2 Dual Core 4000+</a>   |                           |      |                       |     |       |     |    |          |          |         |
| <a href="#">AMD Athlon 64 X2 Dual Core BE-2350</a> | NA                        | 1044 | NA                    | 631 | NA    | 45  | 23 | May 2009 | AM2      | Desktop |
| <a href="#">AMD Opteron 1212</a>                   | <a href="#">\$290.00*</a> | 1009 | <a href="#">3.48</a>  | 553 | 1.91  | 103 | 9  | Mar 2009 | AM2      | Server  |
| <a href="#">AMD Athlon 64 X2 Dual Core 3800+</a>   | NA                        | 1000 | NA                    | 609 | NA    | 89  | 11 | Nov 2008 | AM2      | Desktop |
| <a href="#">AMD Opteron 1210 HE</a>                | NA                        | 971  | NA                    | NA  | NA    | 65  | 14 | Jan 2011 | AM2      | Server  |
| <a href="#">Athlon Dual Core 4050e</a>             | NA                        | 968  | NA                    | 633 | NA    | 45  | 21 | Oct 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 X2 Dual Core 3600+</a>   | <a href="#">\$60.00</a>   | 962  | <a href="#">16.03</a> | 591 | 9.86  | 65  | 14 | Dec 2008 | AM2      | Desktop |
| <a href="#">AMD Opteron 1210</a>                   | <a href="#">\$65.00</a>   | 923  | <a href="#">14.21</a> | NA  | NA    | 103 | 8  | Apr 2009 | AM2      | Server  |
| <a href="#">AMD Athlon X2 Dual Core BE-2300</a>    | NA                        | 920  | NA                    | 567 | NA    | 45  | 20 | Feb 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 FX-25</a>                | NA                        | 794  | NA                    | NA  | NA    | 95  | 8  | Nov 2009 | AM2+     | Unknown |
| <a href="#">AMD Sempron LE-1640</a>                | NA                        | 759  | NA                    | NA  | NA    | 45  | 16 | Oct 2012 | AM2      | Unknown |
| <a href="#">AMD Sempron 130</a>                    | <a href="#">\$24.99*</a>  | 700  | <a href="#">28.03</a> | 751 | 30.07 | 45  | 15 | Apr 2012 | AM2+/AM3 | Unknown |
| <a href="#">AMD Athlon LE-1660</a>                 | NA                        | 679  | NA                    | 748 | NA    | 45  | 15 | Apr 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 1640B</a>                   | <a href="#">\$50.00*</a>  | 670  | <a href="#">13.42</a> | 776 | 15.53 | 45  | 14 | May 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon LE-1640</a>                 | NA                        | 629  | NA                    | 718 | NA    | 45  | 13 | Feb 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon II 170u</a>                 | <a href="#">\$17.99</a>   | 627  | <a href="#">34.86</a> | 633 | 35.24 | 20  | 31 | Oct 2010 | AM2+,AM3 | Desktop |
| <a href="#">AMD Athlon 64 4000+</a>                | <a href="#">\$183.27*</a> | 608  | <a href="#">3.32</a>  | 677 | 3.70  | 62  | 9  | Dec 2008 | AM2      | Unknown |
| <a href="#">AMD Sempron LE-1300</a>                | <a href="#">\$25.00</a>   | 598  | <a href="#">23.92</a> | 617 | 24.70 | 45  | 13 | May 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 3800+</a>                | <a href="#">\$109.95</a>  | 589  | <a href="#">5.36</a>  | 672 | 6.12  | 45  | 13 | Jan 2009 | AM2      | Unknown |
| <a href="#">AMD Athlon LE-1620</a>                 | <a href="#">\$18.00*</a>  | 578  | <a href="#">32.12</a> | 678 | 37.70 | 45  | 12 | Mar 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon LE-1600</a>                 | <a href="#">\$21.00*</a>  | 557  | <a href="#">26.57</a> | 631 | 30.06 | 45  | 12 | Mar 2009 | AM2      | Desktop |
| <a href="#">AMD Sempron 3800+</a>                  | <a href="#">\$152.92*</a> | 554  | <a href="#">3.62</a>  | 649 | 4.25  | 62  | 8  | Dec 2008 | AM2      | Desktop |
| <a href="#">AMD Sempron LE-1250</a>                | <a href="#">\$99.95*</a>  | 543  | <a href="#">5.44</a>  | 602 | 6.03  | 45  | 12 | Feb 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 3500+</a>                | <a href="#">\$108.95*</a> | 541  | <a href="#">4.97</a>  | 621 | 5.70  | 45  | 12 | Dec 2008 | AM2      | Unknown |
| <a href="#">AMD Sempron LE-1200</a>                | NA                        | 529  | NA                    | 609 | NA    | 45  | 11 | Mar 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 2850e</a>                   | NA                        | 506  | NA                    | 493 | NA    | 22  | 23 | Nov 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 64 3200+</a>                | <a href="#">\$149.95*</a> | 494  | <a href="#">3.30</a>  | 578 | 3.86  | 62  | 7  | Dec 2008 | AM2      | Unknown |
| <a href="#">AMD Sempron 3600+</a>                  | <a href="#">\$12.00*</a>  | 483  | <a href="#">40.30</a> | 560 | 46.72 | 62  | 7  | Mar 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 3200+</a>                   | <a href="#">\$60.00*</a>  | 458  | <a href="#">7.63</a>  | NA  | NA    | 62  | 7  | Aug 2010 | AM2      | Unknown |
| <a href="#">AMD Sempron 3400+</a>                  | <a href="#">\$69.98</a>   | 454  | <a href="#">6.50</a>  | 521 | 7.46  | 62  | 7  | Dec 2008 | AM2      | Desktop |
| <a href="#">AMD Sempron LE-1150</a>                | NA                        | 439  | NA                    | 546 | NA    | 45  | 9  | Mar 2009 | AM2      | Desktop |
| <a href="#">AMD Sempron LE-1100</a>                | NA                        | 437  | NA                    | 523 | NA    | 45  | 9  | Mar 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon XP 3200+</a>                | NA                        | 432  | NA                    | 661 | NA    | 62  | 6  | Dec 2008 | AM2      | Unknown |
| <a href="#">AMD Sempron 3000+</a>                  | <a href="#">\$20.00</a>   | 408  | <a href="#">20.41</a> | 513 | 25.66 | 62  | 6  | Dec 2008 | AM2      | Desktop |
| <a href="#">AMD Sempron 3200+</a>                  | <a href="#">\$122.81</a>  | 406  | <a href="#">3.31</a>  | 487 | 3.97  | 62  | 6  | Jan 2009 | AM2      | Desktop |
| <a href="#">AMD Sempron 2800+</a>                  | <a href="#">\$39.95</a>   | 383  | <a href="#">9.60</a>  | 486 | 12.18 | 62  | 6  | Dec 2008 | AM2      | Desktop |
| <a href="#">AMD Sempron 3500+</a>                  | <a href="#">\$20.00*</a>  | 379  | <a href="#">18.98</a> | 480 | 24.02 | 62  | 6  | Mar 2009 | AM2      | Desktop |
| <a href="#">AMD Athlon 7850 Dual-Core 2.8G</a>     | NA                        | 288  | NA                    | NA  | NA    | 95  | 3  | Apr 2011 | AM2+     | Desktop |

Notes:

- <sup>1</sup> Price is obtained from our affiliates. '\*' after the price denotes the last seen price for products that are no longer available.
- <sup>2</sup> CPU Value is calculated by taking CPU Mark / Price.
- <sup>3</sup> Single Thread Value is calculated by taking Single Thread CPU Mark / Price.
- <sup>4</sup> Power Performance is calculated by taking CPU Mark / TDP.
- <sup>5</sup> Test Date is the date of our first benchmark submission.

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