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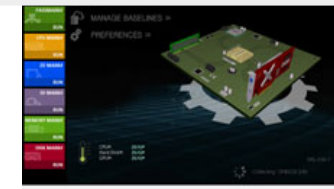
# CPU Benchmarks

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## CPU List

About Us

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.

## Single CPU Systems

Find CPU

Passmark CPU

Rank

CPU Value

Price

| CPU Name               | Mark<br>(higher is better) | Rank<br>(lower is better) | CPU value<br>(higher is better) | Price<br>(USD) |
|------------------------|----------------------------|---------------------------|---------------------------------|----------------|
| 686 Gen                | 288                        | 2250                      | NA                              | NA             |
| AMD A4 Micro-6400T APU | 1544                       | 1452                      | NA                              | NA             |
| AMD A4 PRO-3340B       | 2736                       | 994                       | NA                              | NA             |
| AMD A4 PRO-7300B APU   | 2320                       | 1116                      | NA                              | NA             |
| AMD A4 PRO-7350B       | 2794                       | 978                       | NA                              | NA             |
| AMD A4-1200 APU        | 628                        | 1930                      | NA                              | NA             |
| AMD A4-1250 APU        | 603                        | 1945                      | NA                              | NA             |
| AMD A4-3300 APU        | 1514                       | 1462                      | 71.72                           | \$21.11        |
| AMD A4-3300M APU       | 1195                       | 1628                      | 39.86                           | \$29.99        |
| AMD A4-3305M APU       | 1233                       | 1611                      | 41.10                           | \$30.00*       |
| AMD A4-3310MX APU      | 1308                       | 1557                      | NA                              | NA             |
| AMD A4-3320M APU       | 1269                       | 1589                      | 40.97                           | \$31.00        |
| AMD A4-3330MX APU      | 1253                       | 1597                      | NA                              | NA             |
| AMD A4-3400 APU        | 1602                       | 1423                      | 34.29                           | \$46.74        |
| AMD A4-3420 APU        | 1682                       | 1389                      | NA                              | NA             |
| AMD A4-4000 APU        | 1792                       | 1334                      | 55.63                           | \$32.23        |
| AMD A4-4020 APU        | 1749                       | 1349                      | 30.51                           | \$57.34        |
| AMD A4-4300M APU       | 1680                       | 1393                      | 42.15                           | \$39.86        |
| AMD A4-4355M APU       | 1155                       | 1648                      | NA                              | NA             |
| AMD A4-5000 APU        | 1888                       | 1288                      | NA                              | NA             |
| AMD A4-5100 APU        | 2009                       | 1243                      | NA                              | NA             |
| AMD A4-5150M APU       | 1847                       | 1312                      | NA                              | NA             |
| AMD A4-5300 APU        | 1992                       | 1248                      | 31.58                           | \$63.09        |
| AMD A4-5300B APU       | 1990                       | 1249                      | 52.38                           | \$38.00*       |
| AMD A4-6210 APU        | 2109                       | 1209                      | NA                              | NA             |

|                                              |                   |      |           |           |
|----------------------------------------------|-------------------|------|-----------|-----------|
| AMD A4-6250J APU with AMD Radeon R3 Graphics | 2552              | 1047 | NA        | NA        |
| AMD A4-6300 APU                              | 2213              | 1170 | 73.82     | \$29.99   |
| AMD A4-6300B APU                             | 2042              | 1229 | 20.42     | \$100.00* |
| AMD A4-6320 APU                              | 2296              | 1130 | 50.52     | \$45.45   |
| AMD A4-7210 APU                              | 2464              | 1073 | NA        | NA        |
| AMD A4-7300 APU                              | 2219              | 1168 | 55.49     | \$39.99   |
| AMD A6 PRO-7050B APU                         | 1554              | 1447 | NA        | NA        |
| AMD A6 PRO-7400B                             | 2913              | 941  | NA        | NA        |
| AMD A6-1450 APU                              | 1509              | 1463 | NA        | NA        |
| AMD A6-3400M APU                             | 1907              | 1278 | 54.57     | \$34.96   |
| AMD A6-3410MX APU                            | 2095              | 1215 | 69.88     | \$29.99   |
| AMD A6-3420M APU                             | 2032              | 1233 | NA        | NA        |
| AMD A6-3430MX APU                            | 2227              | 1166 | NA        | NA        |
| AMD A6-3500 APU                              | 2018              | 1242 | 50.47     | \$39.99*  |
| AMD A6-3600 APU                              | 2735              | 995  | 39.11     | \$69.95*  |
| AMD A6-3620 APU                              | 2839              | 961  | 47.33     | \$59.99*  |
| AMD A6-3650 APU                              | 3192              | 861  | 36.92     | \$86.46   |
| AMD A6-3670 APU                              | 3223              | 851  | 19.21     | \$167.80* |
| AMD A6-4400M APU                             | 1628              | 1414 | 40.85     | \$39.86   |
| AMD A6-4455M APU                             | 1272              | 1586 | NA        | NA        |
| AMD A6-5200 APU                              | 2393              | 1095 | NA        | NA        |
| AMD A6-5345M APU                             | 1481              | 1474 | NA        | NA        |
| AMD A6-5350M APU                             | 1893              | 1283 | 31.58     | \$59.95   |
| AMD A6-5357M APU                             | 1861              | 1304 | NA        | NA        |
| AMD A6-5400B APU                             | 2200              | 1177 | 20.95     | \$105.04* |
| CPU Name                                     | Passmark CPU Mark | Rank | CPU Value | Price     |

| CPU Name             | mark (higher is better) | (lower is better) | (higher is better) | (USD)     |
|----------------------|-------------------------|-------------------|--------------------|-----------|
| AMD A6-5400K APU     | 2138                    | 1194              | 61.12              | \$34.99   |
| AMD A6-6310 APU      | 2376                    | 1103              | NA                 | NA        |
| AMD A6-6400B APU     | 2290                    | 1133              | NA                 | NA        |
| AMD A6-6400K APU     | 2282                    | 1137              | 42.53              | \$53.67   |
| AMD A6-6420B APU     | 2612                    | 1024              | NA                 | NA        |
| AMD A6-6420K APU     | 2257                    | 1144              | 40.72              | \$55.44   |
| AMD A6-7000          | 1660                    | 1402              | NA                 | NA        |
| AMD A6-7310 APU      | 2588                    | 1036              | NA                 | NA        |
| AMD A6-7400K APU     | 2798                    | 975               | 50.90              | \$54.99   |
| AMD A6-7470K         | 2575                    | 1041              | 41.55              | \$61.99   |
| AMD A6-8500P         | 2229                    | 1163              | NA                 | NA        |
| AMD A6-8550          | 3104                    | 885               | NA                 | NA        |
| AMD A6-9210          | 2115                    | 1202              | NA                 | NA        |
| AMD A8 PRO-7150B APU | 2828                    | 966               | NA                 | NA        |
| AMD A8 PRO-7600B APU | 4888                    | 521               | NA                 | NA        |
| AMD A8-3500M APU     | 1978                    | 1253              | 40.37              | \$49.00   |
| AMD A8-3510MX APU    | 2406                    | 1091              | NA                 | NA        |
| AMD A8-3520M APU     | 2212                    | 1173              | NA                 | NA        |
| AMD A8-3530MX APU    | 2376                    | 1102              | NA                 | NA        |
| AMD A8-3550MX APU    | 2629                    | 1019              | NA                 | NA        |
| AMD A8-3800 APU      | 3117                    | 883               | 19.91              | \$156.59* |
| AMD A8-3820 APU      | 3189                    | 862               | 39.87              | \$79.99*  |
| AMD A8-3850 APU      | 3500                    | 781               | 24.36              | \$143.69* |
| AMD A8-3870K APU     | 3599                    | 758               | 48.65              | \$73.99   |
| AMD A8-4500M APU     | 2653                    | 1009              | NA                 | NA        |
| AMD A8-4555M APU     | 2095                    | 1214              | NA                 | NA        |

| AMD A8-5500 APU         | 3983                                    | 672                       | 15.21                           | \$261.84*      |
|-------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD A8-5500B APU        | 3837                                    | 701                       | NA                              | NA             |
| AMD A8-5545M APU        | 2570                                    | 1043                      | NA                              | NA             |
| AMD A8-5550M APU        | 2998                                    | 920                       | NA                              | NA             |
| AMD A8-5557M APU        | 2955                                    | 931                       | NA                              | NA             |
| AMD A8-5600K APU        | 4324                                    | 612                       | 18.86                           | \$229.30       |
| AMD A8-6410 APU         | 2510                                    | 1057                      | NA                              | NA             |
| AMD A8-6500 APU         | 4388                                    | 597                       | 29.26                           | \$149.99       |
| AMD A8-6500B APU        | 4559                                    | 572                       | NA                              | NA             |
| AMD A8-6500T APU        | 3330                                    | 824                       | NA                              | NA             |
| AMD A8-6600K APU        | 4584                                    | 568                       | 29.92                           | \$153.20       |
| AMD A8-7050             | 2235                                    | 1157                      | NA                              | NA             |
| AMD A8-7100 APU         | 2824                                    | 967                       | NA                              | NA             |
| AMD A8-7200P            | 3427                                    | 809                       | NA                              | NA             |
| AMD A8-7410 APU         | 2636                                    | 1018                      | NA                              | NA             |
| AMD A8-7600 APU         | 5165                                    | 487                       | 65.42                           | \$78.95        |
| AMD A8-7650K            | 4938                                    | 511                       | 54.88                           | \$89.99        |
| AMD A8-7670K            | 5013                                    | 504                       | 49.16                           | \$101.99       |
| AMD A8-8600P            | 3231                                    | 846                       | NA                              | NA             |
| AMD A8-8650             | 5391                                    | 463                       | NA                              | NA             |
| AMD A9-9410             | 2650                                    | 1012                      | NA                              | NA             |
| AMD A10 Micro-6700T APU | 1875                                    | 1299                      | NA                              | NA             |
| AMD A10 PRO-7350B APU   | 3282                                    | 834                       | NA                              | NA             |
| CPU Name                | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD A10 PRO-7800B APU   | 5424                                    | 457                       | NA                              | NA             |
| AMD A10 PRO-7850B APU   | 5614                                    | 433                       | NA                              | NA             |

|                   |      |      |       |           |
|-------------------|------|------|-------|-----------|
| AMD A10-4600M APU | 3110 | 884  | NA    | NA        |
| AMD A10-4655M APU | 2579 | 1038 | NA    | NA        |
| AMD A10-4657M APU | 2906 | 944  | NA    | NA        |
| AMD A10-5700 APU  | 4196 | 638  | 22.42 | \$187.21  |
| AMD A10-5745M APU | 2758 | 988  | NA    | NA        |
| AMD A10-5750M APU | 3355 | 819  | NA    | NA        |
| AMD A10-5757M APU | 3074 | 891  | NA    | NA        |
| AMD A10-5800B APU | 4612 | 563  | NA    | NA        |
| AMD A10-5800K APU | 4630 | 559  | 22.05 | \$209.99  |
| AMD A10-6700 APU  | 4600 | 565  | 36.23 | \$126.99  |
| AMD A10-6700T APU | 3693 | 738  | 24.63 | \$149.98  |
| AMD A10-6790K APU | 4656 | 553  | 33.89 | \$137.39  |
| AMD A10-6800B APU | 4990 | 506  | NA    | NA        |
| AMD A10-6800K APU | 4893 | 516  | 47.42 | \$103.20  |
| AMD A10-7300 APU  | 2973 | 926  | NA    | NA        |
| AMD A10-7400P     | 3710 | 733  | NA    | NA        |
| AMD A10-7700K APU | 5189 | 482  | 54.63 | \$94.99   |
| AMD A10-7800 APU  | 5108 | 492  | 48.66 | \$104.99* |
| AMD A10-7850K APU | 5525 | 442  | 42.18 | \$131.00  |
| AMD A10-7860K     | 5067 | 496  | 53.34 | \$94.99   |
| AMD A10-7870K     | 5541 | 440  | 48.19 | \$114.99  |
| AMD A10-7890K     | 5777 | 413  | 36.11 | \$160.00  |
| AMD A10-8700P     | 3480 | 791  | NA    | NA        |
| AMD A10-8750      | 5176 | 485  | NA    | NA        |
| AMD A10-8850      | 5634 | 431  | NA    | NA        |
| AMD A10-9600P     | 3761 | 718  | NA    | NA        |
| AMD A10-9630P     | 4562 | 570  | NA    | NA        |

| AMD A12-9700P                   | 3904                                    | 691                       | NA                              | NA             |
|---------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD A12-9800                    | 5821                                    | 409                       | NA                              | NA             |
| AMD Athlon64 X2 Dual Core 3800+ | 997                                     | 1738                      | NA                              | NA             |
| AMD Athlon64 X2 Dual Core 4200+ | 1006                                    | 1730                      | NA                              | NA             |
| AMD Athlon64 X2 Dual Core 4600+ | 1108                                    | 1670                      | NA                              | NA             |
| AMD Athlon 4                    | 279                                     | 2267                      | 5.18                            | \$53.99        |
| AMD Athlon 64 2000+             | 116                                     | 2398                      | NA                              | NA             |
| AMD Athlon 64 2200+             | 575                                     | 1960                      | NA                              | NA             |
| AMD Athlon 64 2600+             | 374                                     | 2141                      | NA                              | NA             |
| AMD Athlon 64 2800+             | 436                                     | 2070                      | 4.36                            | \$99.99*       |
| AMD Athlon 64 3000+             | 461                                     | 2044                      | 5.43                            | \$84.95        |
| AMD Athlon 64 3200+             | 492                                     | 2012                      | 3.28                            | \$149.95*      |
| AMD Athlon 64 3300+             | 576                                     | 1959                      | NA                              | NA             |
| AMD Athlon 64 3400+             | 544                                     | 1973                      | NA                              | NA             |
| AMD Athlon 64 3500+             | 538                                     | 1979                      | 8.09                            | \$66.56        |
| AMD Athlon 64 3600+             | 601                                     | 1946                      | NA                              | NA             |
| AMD Athlon 64 3700+             | 598                                     | 1947                      | 4.61                            | \$129.95*      |
| AMD Athlon 64 3800+             | 587                                     | 1952                      | 3.27                            | \$179.95       |
| AMD Athlon 64 4000+             | 618                                     | 1937                      | 3.12                            | \$197.95*      |
| AMD Athlon 64 FX-25             | 794                                     | 1855                      | NA                              | NA             |
| CPU Name                        | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Athlon 64 FX-34             | 380                                     | 2134                      | NA                              | NA             |
| AMD Athlon 64 FX-51             | 437                                     | 2068                      | NA                              | NA             |
| AMD Athlon 64 FX-53             | 646                                     | 1922                      | NA                              | NA             |
| AMD Athlon 64 FX-55             | 744                                     | 1875                      | 4.14                            | \$179.95       |
| AMD Athlon 64 FX-57             | 730                                     | 1880                      | NA                              | NA             |

|                                    |      |      |              |                  |
|------------------------------------|------|------|--------------|------------------|
| AMD Athlon 64 FX-59                | 715  | 1889 | NA           | NA               |
| AMD Athlon 64 FX-60 Dual Core      | 1303 | 1563 | NA           | NA               |
| AMD Athlon 64 FX-62 Dual Core      | 1552 | 1448 | NA           | NA               |
| AMD Athlon 64 FX-72                | 1794 | 1332 | NA           | NA               |
| AMD Athlon 64 FX-74                | 1495 | 1469 | <b>2.99</b>  | <b>\$499.50*</b> |
| AMD Athlon 64 X2 3800+             | 958  | 1768 | NA           | NA               |
| AMD Athlon 64 X2 4200+             | 1285 | 1577 | <b>4.16</b>  | <b>\$308.95*</b> |
| AMD Athlon 64 X2 4600+             | 1365 | 1528 | <b>3.90</b>  | <b>\$349.95*</b> |
| AMD Athlon 64 X2 Dual Core 3400+   | 1003 | 1732 | NA           | NA               |
| AMD Athlon 64 X2 Dual Core 3600+   | 971  | 1756 | <b>16.19</b> | <b>\$60.00*</b>  |
| AMD Athlon 64 X2 Dual Core 3800+   | 1004 | 1731 | NA           | NA               |
| AMD Athlon 64 X2 Dual Core 4000+   | 1040 | 1710 | NA           | NA               |
| AMD Athlon 64 X2 Dual Core 4200+   | 1100 | 1673 | <b>5.37</b>  | <b>\$204.95*</b> |
| AMD Athlon 64 X2 Dual Core 4400+   | 1149 | 1651 | <b>5.78</b>  | <b>\$198.95*</b> |
| AMD Athlon 64 X2 Dual Core 4600+   | 1222 | 1617 | <b>3.40</b>  | <b>\$359.95*</b> |
| AMD Athlon 64 X2 Dual Core 4800+   | 1263 | 1592 | <b>7.90</b>  | <b>\$159.95</b>  |
| AMD Athlon 64 X2 Dual Core 5000+   | 1314 | 1553 | <b>3.97</b>  | <b>\$331.49*</b> |
| AMD Athlon 64 X2 Dual Core 5200+   | 1382 | 1520 | <b>26.04</b> | <b>\$53.09*</b>  |
| AMD Athlon 64 X2 Dual Core 5400+   | 1449 | 1491 | <b>27.36</b> | <b>\$52.99*</b>  |
| AMD Athlon 64 X2 Dual Core 5600+   | 1473 | 1476 | <b>10.53</b> | <b>\$139.95</b>  |
| AMD Athlon 64 X2 Dual Core 5800+   | 1536 | 1453 | <b>17.07</b> | <b>\$90.00*</b>  |
| AMD Athlon 64 X2 Dual Core 6000+   | 1607 | 1421 | <b>49.47</b> | <b>\$32.50</b>   |
| AMD Athlon 64 X2 Dual Core 6400+   | 1798 | 1329 | <b>6.92</b>  | <b>\$259.95</b>  |
| AMD Athlon 64 X2 Dual Core BE-230  | 1095 | 1678 | NA           | NA               |
| AMD Athlon 64 X2 Dual Core BE-2300 | 1082 | 1690 | NA           | NA               |
| AMD Athlon 64 X2 Dual Core BE-2350 | 1044 | 1706 | NA           | NA               |
| AMD Athlon 64 X2 Dual Core TK-53   | 839  | 1836 | <b>24.03</b> | <b>\$34.95*</b>  |

| AMD Athlon 64 X2 Dual Core TK-55 | 854                                     | 1826                      | 14.80                           | \$57.74*       |
|----------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Athlon 64 X2 Dual Core TK-57 | 971                                     | 1755                      | NA                              | NA             |
| AMD Athlon 64 X2 Dual-Core TK-42 | 879                                     | 1811                      | NA                              | NA             |
| AMD Athlon 64 X2 Dual-Core TK-53 | 804                                     | 1852                      | NA                              | NA             |
| AMD Athlon 64 X2 Dual-Core TK-55 | 882                                     | 1809                      | 12.13                           | \$72.74*       |
| AMD Athlon 64 X2 Dual-Core TK-57 | 918                                     | 1791                      | NA                              | NA             |
| AMD Athlon 64 X2 QL-60           | 930                                     | 1784                      | NA                              | NA             |
| AMD Athlon 64 X2 QL-62           | 1027                                    | 1715                      | NA                              | NA             |
| AMD Athlon 64 X2 QL-64           | 973                                     | 1752                      | NA                              | NA             |
| AMD Athlon 64 X2 QL-65           | 1033                                    | 1714                      | NA                              | NA             |
| AMD Athlon 64 X2 QL-66           | 942                                     | 1776                      | NA                              | NA             |
| AMD Athlon 64 X2 QL-67           | 1006                                    | 1729                      | NA                              | NA             |
| AMD Athlon 64 X2 TK-55           | 955                                     | 1770                      | NA                              | NA             |
| AMD Athlon 64 X2 TK-57           | 988                                     | 1743                      | NA                              | NA             |
| AMD Athlon 1500+                 | 294                                     | 2241                      | NA                              | NA             |
| AMD Athlon 1640B                 | 668                                     | 1913                      | 13.36                           | \$50.00*       |
| AMD Athlon 1700+                 | 349                                     | 2173                      | NA                              | NA             |
| CPU Name                         | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Athlon 2000+                 | 390                                     | 2127                      | NA                              | NA             |
| AMD Athlon 2100+                 | 412                                     | 2091                      | NA                              | NA             |
| AMD Athlon 2200+                 | 363                                     | 2159                      | 4.55                            | \$79.99*       |
| AMD Athlon 2400+                 | 462                                     | 2042                      | NA                              | NA             |
| AMD Athlon 2500+                 | 374                                     | 2140                      | 6.46                            | \$58.00*       |
| AMD Athlon 2600+                 | 444                                     | 2061                      | 4.23                            | \$104.95*      |
| AMD Athlon 2650e                 | 406                                     | 2097                      | 21.39                           | \$19.00*       |
| AMD Athlon 2800+                 | 447                                     | 2059                      | 8.96                            | \$49.99*       |

|                                    |      |      |       |           |
|------------------------------------|------|------|-------|-----------|
| AMD Athlon 2850e                   | 493  | 2011 | NA    | NA        |
| AMD Athlon 3100+                   | 485  | 2021 | NA    | NA        |
| AMD Athlon 3200+                   | 458  | 2046 | 13.11 | \$34.95*  |
| AMD Athlon 5000 Dual-Core          | 1266 | 1590 | 25.32 | \$50.00*  |
| AMD Athlon 5150 APU with Radeon R3 | 2070 | 1225 | 46.02 | \$45.00   |
| AMD Athlon 5200 Dual-Core          | 1225 | 1615 | 13.57 | \$90.33*  |
| AMD Athlon 5350 APU with Radeon R3 | 2562 | 1045 | 59.61 | \$42.99   |
| AMD Athlon 5370 APU                | 2845 | 959  | 54.09 | \$52.60   |
| AMD Athlon 7450 Dual-Core          | 1424 | 1499 | NA    | NA        |
| AMD Athlon 7550 Dual-Core          | 1453 | 1490 | 24.22 | \$60.00*  |
| AMD Athlon 7750 Dual-Core          | 1574 | 1441 | 17.50 | \$89.99   |
| AMD Athlon 7850 Dual-Core          | 1709 | 1369 | 8.15  | \$209.65* |
| AMD Athlon 7850 Dual-Core 2.8G     | 288  | 2252 | NA    | NA        |
| AMD Athlon Dual Core 4050e         | 1091 | 1681 | NA    | NA        |
| AMD Athlon Dual Core 4450B         | 1163 | 1643 | 68.47 | \$17.00*  |
| AMD Athlon Dual Core 4450e         | 1099 | 1674 | NA    | NA        |
| AMD Athlon Dual Core 4850B         | 1471 | 1478 | NA    | NA        |
| AMD Athlon Dual Core 4850e         | 1317 | 1552 | 33.77 | \$39.00*  |
| AMD Athlon Dual Core 5000B         | 1295 | 1572 | 13.64 | \$95.00*  |
| AMD Athlon Dual Core 5050e         | 1342 | 1543 | 22.38 | \$60.00*  |
| AMD Athlon Dual Core 5200B         | 1337 | 1545 | NA    | NA        |
| AMD Athlon Dual Core 5400B         | 1413 | 1506 | NA    | NA        |
| AMD Athlon Dual Core 5600B         | 1304 | 1562 | NA    | NA        |
| AMD Athlon II 160u                 | 545  | 1972 | 18.18 | \$29.99*  |
| AMD Athlon II 170u                 | 626  | 1932 | 20.92 | \$29.95   |
| AMD Athlon II Dual-Core M300       | 1122 | 1662 | NA    | NA        |
| AMD Athlon II Dual-Core M320       | 1147 | 1653 | 38.26 | \$30.00*  |

| AMD Athlon II Dual-Core M340     | 1040                                    | 1711                      | NA                              | NA             |
|----------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Athlon II N330 Dual-Core     | 1154                                    | 1649                      | NA                              | NA             |
| AMD Athlon II N350 Dual-Core     | 1225                                    | 1616                      | NA                              | NA             |
| AMD Athlon II N370 Dual-Core     | 1559                                    | 1445                      | NA                              | NA             |
| AMD Athlon II Neo K125           | 469                                     | 2037                      | NA                              | NA             |
| AMD Athlon II Neo K145           | 537                                     | 1980                      | NA                              | NA             |
| AMD Athlon II Neo K325 Dual-Core | 788                                     | 1857                      | 30.34                           | \$25.99*       |
| AMD Athlon II Neo K345 Dual-Core | 873                                     | 1815                      | NA                              | NA             |
| AMD Athlon II Neo N36L Dual-Core | 827                                     | 1844                      | NA                              | NA             |
| AMD Athlon II P320 Dual-Core     | 1214                                    | 1618                      | 34.76                           | \$34.95        |
| AMD Athlon II P340 Dual-Core     | 1256                                    | 1596                      | 34.92                           | \$35.99*       |
| AMD Athlon II P360 Dual-Core     | 1325                                    | 1550                      | 73.86                           | \$17.95        |
| AMD Athlon II X2 210e            | 1376                                    | 1525                      | NA                              | NA             |
| AMD Athlon II X2 215             | 1589                                    | 1433                      | 35.32                           | \$45.00*       |
| CPU Name                         | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Athlon II X2 220             | 1630                                    | 1413                      | 50.65                           | \$32.19        |
| AMD Athlon II X2 225             | 1526                                    | 1454                      | NA                              | NA             |
| AMD Athlon II X2 235e            | 1655                                    | 1403                      | 87.15                           | \$19.00*       |
| AMD Athlon II X2 240             | 1646                                    | 1408                      | 47.10                           | \$34.95        |
| AMD Athlon II X2 240e            | 1716                                    | 1366                      | 49.13                           | \$34.95        |
| AMD Athlon II X2 245             | 1687                                    | 1388                      | 29.09                           | \$57.99*       |
| AMD Athlon II X2 245e            | 1704                                    | 1372                      | 21.31                           | \$80.00*       |
| AMD Athlon II X2 250             | 1755                                    | 1347                      | 45.07                           | \$38.95*       |
| AMD Athlon II X2 250e            | 1949                                    | 1261                      | 25.41                           | \$76.73*       |
| AMD Athlon II X2 250u            | 1002                                    | 1734                      | 28.68                           | \$34.95        |
| AMD Athlon II X2 255             | 1837                                    | 1315                      | 30.64                           | \$59.98*       |

|                        |      |      |       |           |
|------------------------|------|------|-------|-----------|
| AMD Athlon II X2 260   | 1883 | 1295 | 39.25 | \$48.00*  |
| AMD Athlon II X2 260u  | 1124 | 1661 | 13.48 | \$83.44*  |
| AMD Athlon II X2 265   | 1864 | 1303 | 23.30 | \$79.99   |
| AMD Athlon II X2 270   | 1996 | 1247 | 27.73 | \$71.99*  |
| AMD Athlon II X2 270u  | 1350 | 1537 | 19.96 | \$67.67*  |
| AMD Athlon II X2 280   | 2189 | 1182 | 21.89 | \$99.99*  |
| AMD Athlon II X2 4300e | 1464 | 1483 | NA    | NA        |
| AMD Athlon II X2 4400e | 1631 | 1412 | NA    | NA        |
| AMD Athlon II X2 4450e | 1504 | 1464 | NA    | NA        |
| AMD Athlon II X2 B22   | 1693 | 1382 | 47.10 | \$35.95   |
| AMD Athlon II X2 B24   | 1820 | 1319 | 45.56 | \$39.95*  |
| AMD Athlon II X2 B26   | 1796 | 1331 | 39.96 | \$44.95   |
| AMD Athlon II X2 B28   | 2100 | 1210 | 48.86 | \$43.00*  |
| AMD Athlon II X3 400e  | 2019 | 1240 | 18.80 | \$107.43* |
| AMD Athlon II X3 405e  | 2041 | 1230 | 25.52 | \$79.99*  |
| AMD Athlon II X3 415e  | 2246 | 1148 | 29.95 | \$75.00*  |
| AMD Athlon II X3 420e  | 2286 | 1135 | 19.68 | \$116.15* |
| AMD Athlon II X3 425   | 2331 | 1113 | 55.57 | \$41.96*  |
| AMD Athlon II X3 425e  | 2239 | 1155 | NA    | NA        |
| AMD Athlon II X3 435   | 2477 | 1071 | 15.49 | \$159.95* |
| AMD Athlon II X3 440   | 2577 | 1039 | 64.53 | \$39.95*  |
| AMD Athlon II X3 445   | 2582 | 1037 | 28.37 | \$91.00*  |
| AMD Athlon II X3 450   | 2625 | 1021 | 16.41 | \$159.95* |
| AMD Athlon II X3 455   | 2795 | 976  | 27.96 | \$99.99*  |
| AMD Athlon II X3 460   | 2891 | 951  | 57.83 | \$49.99   |
| AMD Athlon II X4 553   | 3814 | 709  | NA    | NA        |
| AMD Athlon II X4 555   | 3836 | 703  | NA    | NA        |

| AMD Athlon II X4 559           | 4243                                    | 629                       | NA                              | NA             |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Athlon II X4 600e          | 2417                                    | 1088                      | 18.56                           | \$130.23*      |
| AMD Athlon II X4 605e          | 2733                                    | 996                       | 26.85                           | \$101.80*      |
| AMD Athlon II X4 610e          | 2821                                    | 968                       | 40.31                           | \$69.99*       |
| AMD Athlon II X4 615e          | 2885                                    | 952                       | 48.90                           | \$59.00*       |
| AMD Athlon II X4 620           | 2958                                    | 929                       | 49.35                           | \$59.95*       |
| AMD Athlon II X4 620e          | 2906                                    | 946                       | NA                              | NA             |
| AMD Athlon II X4 630           | 3165                                    | 873                       | 25.32                           | \$124.99*      |
| AMD Athlon II X4 631 Quad-Core | 3163                                    | 874                       | 158.25                          | \$19.99*       |
| AMD Athlon II X4 635           | 3280                                    | 835                       | 27.34                           | \$119.99*      |
| AMD Athlon II X4 638 Quad-Core | 3198                                    | 859                       | NA                              | NA             |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Athlon II X4 640           | 3342                                    | 823                       | 12.86                           | \$259.95       |
| AMD Athlon II X4 641 Quad-Core | 3431                                    | 808                       | 11.10                           | \$309.18*      |
| AMD Athlon II X4 645           | 3505                                    | 779                       | 34.43                           | \$101.80*      |
| AMD Athlon II X4 650           | 3490                                    | 784                       | 20.95                           | \$166.60*      |
| AMD Athlon II X4 651 Quad-Core | 3589                                    | 762                       | 20.16                           | \$178.04*      |
| AMD Athlon II X4 655           | 2880                                    | 954                       | NA                              | NA             |
| AMD Athlon II X4 6400e         | 2594                                    | 1032                      | NA                              | NA             |
| AMD Athlon L110                | 303                                     | 2227                      | NA                              | NA             |
| AMD Athlon LE-1600             | 567                                     | 1966                      | 27.01                           | \$21.00*       |
| AMD Athlon LE-1620             | 571                                     | 1963                      | 31.75                           | \$18.00*       |
| AMD Athlon LE-1640             | 626                                     | 1931                      | NA                              | NA             |
| AMD Athlon LE-1660             | 682                                     | 1908                      | NA                              | NA             |
| AMD Athlon MP                  | 230                                     | 2324                      | 4.20                            | \$54.95*       |
| AMD Athlon MP 1700+            | 339                                     | 2184                      | NA                              | NA             |

|                                   |      |      |       |           |
|-----------------------------------|------|------|-------|-----------|
| AMD Athlon MP 2400+               | 436  | 2069 | NA    | NA        |
| AMD Athlon MP 2800+               | 497  | 2008 | NA    | NA        |
| AMD Athlon Neo MV-40              | 402  | 2107 | NA    | NA        |
| AMD Athlon Neo X2 Dual Core 6850e | 1002 | 1733 | NA    | NA        |
| AMD Athlon Neo X2 Dual Core L325  | 770  | 1865 | NA    | NA        |
| AMD Athlon Neo X2 Dual Core L335  | 814  | 1847 | NA    | NA        |
| AMD Athlon QI-46                  | 473  | 2034 | NA    | NA        |
| AMD Athlon TF-20                  | 415  | 2086 | NA    | NA        |
| AMD Athlon TF-36                  | 329  | 2191 | NA    | NA        |
| AMD Athlon X2 215                 | 1575 | 1440 | NA    | NA        |
| AMD Athlon X2 235e                | 1806 | 1322 | NA    | NA        |
| AMD Athlon X2 240                 | 1575 | 1439 | NA    | NA        |
| AMD Athlon X2 240e                | 1670 | 1398 | NA    | NA        |
| AMD Athlon X2 250                 | 1687 | 1387 | NA    | NA        |
| AMD Athlon X2 255                 | 1627 | 1415 | NA    | NA        |
| AMD Athlon X2 260                 | 1910 | 1276 | NA    | NA        |
| AMD Athlon X2 280                 | 2303 | 1127 | 13.17 | \$174.81* |
| AMD Athlon X2 340 Dual Core       | 1869 | 1301 | 62.33 | \$29.99*  |
| AMD Athlon X2 370K Dual Core      | 2229 | 1164 | NA    | NA        |
| AMD Athlon X2 440                 | 1424 | 1498 | NA    | NA        |
| AMD Athlon X2 Dual Core 3250e     | 777  | 1859 | NA    | NA        |
| AMD Athlon X2 Dual Core 6850e     | 998  | 1736 | NA    | NA        |
| AMD Athlon X2 Dual Core BE-2300   | 963  | 1762 | NA    | NA        |
| AMD Athlon X2 Dual Core BE-2350   | 1108 | 1669 | NA    | NA        |
| AMD Athlon X2 Dual Core BE-2400   | 1236 | 1608 | NA    | NA        |
| AMD Athlon X2 Dual Core BE-2450   | 1251 | 1599 | NA    | NA        |
| AMD Athlon X2 Dual Core L310      | 649  | 1919 | NA    | NA        |

| AMD Athlon X2 Dual Core LS-5800 | 1009                                    | 1728                      | NA                              | NA             |
|---------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Athlon X3 425               | 2255                                    | 1147                      | NA                              | NA             |
| AMD Athlon X3 435               | 2574                                    | 1042                      | 26.96                           | \$95.49*       |
| AMD Athlon X3 440               | 2256                                    | 1145                      | 25.65                           | \$87.99*       |
| AMD Athlon X3 445               | 2314                                    | 1121                      | NA                              | NA             |
| AMD Athlon X3 450               | 3064                                    | 894                       | 38.80                           | \$78.99*       |
| AMD Athlon X3 455               | 2401                                    | 1093                      | NA                              | NA             |
| AMD Athlon X4 605e              | 2505                                    | 1061                      | NA                              | NA             |
| CPU Name                        | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Athlon X4 620               | 2918                                    | 938                       | 48.68                           | \$59.95*       |
| AMD Athlon X4 635               | 2891                                    | 950                       | 23.71                           | \$121.99*      |
| AMD Athlon X4 640               | 3172                                    | 869                       | NA                              | NA             |
| AMD Athlon X4 645               | 3595                                    | 759                       | NA                              | NA             |
| AMD Athlon X4 740 Quad Core     | 3942                                    | 681                       | 14.23                           | \$277.00*      |
| AMD Athlon X4 750 Quad Core     | 4492                                    | 584                       | NA                              | NA             |
| AMD Athlon X4 750K Quad Core    | 4222                                    | 632                       | 54.85                           | \$76.99*       |
| AMD Athlon X4 760K Quad Core    | 4544                                    | 575                       | 40.13                           | \$113.24*      |
| AMD Athlon X4 840               | 5075                                    | 495                       | NA                              | NA             |
| AMD Athlon X4 845               | 5486                                    | 446                       | 82.88                           | \$66.20        |
| AMD Athlon X4 860K              | 5522                                    | 443                       | 70.46                           | \$78.38        |
| AMD Athlon X4 870K              | 5230                                    | 477                       | 60.13                           | \$86.99        |
| AMD Athlon X4 880K              | 5614                                    | 434                       | 60.80                           | \$92.34        |
| AMD Athlon XP1600+              | 281                                     | 2263                      | NA                              | NA             |
| AMD Athlon XP1700+              | 234                                     | 2320                      | NA                              | NA             |
| AMD Athlon XP1900+              | 353                                     | 2170                      | NA                              | NA             |
| AMD Athlon XP2100+              | 287                                     | 2256                      | NA                              | NA             |

|                     |     |      |       |           |
|---------------------|-----|------|-------|-----------|
| AMD Athlon XP2200+  | 401 | 2110 | NA    | NA        |
| AMD Athlon XP2400+  | 391 | 2125 | NA    | NA        |
| AMD Athlon XP 1500  | 282 | 2262 | NA    | NA        |
| AMD Athlon XP 1500+ | 257 | 2294 | NA    | NA        |
| AMD Athlon XP 1600+ | 266 | 2283 | NA    | NA        |
| AMD Athlon XP 1700  | 344 | 2179 | NA    | NA        |
| AMD Athlon XP 1700+ | 272 | 2278 | NA    | NA        |
| AMD Athlon XP 1800+ | 300 | 2233 | 5.10  | \$58.95*  |
| AMD Athlon XP 1900+ | 304 | 2221 | NA    | NA        |
| AMD Athlon XP 2000+ | 302 | 2228 | 12.11 | \$24.99*  |
| AMD Athlon XP 2100+ | 323 | 2197 | NA    | NA        |
| AMD Athlon XP 2200+ | 325 | 2195 | 3.83  | \$84.95*  |
| AMD Athlon XP 2300+ | 464 | 2039 | NA    | NA        |
| AMD Athlon XP 2400+ | 362 | 2161 | 4.03  | \$89.99*  |
| AMD Athlon XP 2500+ | 355 | 2166 | NA    | NA        |
| AMD Athlon XP 2600+ | 372 | 2145 | 16.16 | \$23.03*  |
| AMD Athlon XP 2700+ | 389 | 2128 | 4.59  | \$84.79*  |
| AMD Athlon XP 2800+ | 397 | 2118 | NA    | NA        |
| AMD Athlon XP 2900+ | 459 | 2045 | NA    | NA        |
| AMD Athlon XP 3000+ | 401 | 2111 | 8.04  | \$49.95*  |
| AMD Athlon XP 3100+ | 433 | 2074 | NA    | NA        |
| AMD Athlon XP 3200+ | 432 | 2075 | NA    | NA        |
| AMD Athlon XP 3400+ | 570 | 1964 | NA    | NA        |
| AMD Athlon XP Pro3+ | 367 | 2151 | NA    | NA        |
| AMD Athlon XP-M     | 541 | 1976 | 3.86  | \$139.99* |
| AMD C-30            | 310 | 2213 | NA    | NA        |
| AMD C-50            | 462 | 2041 | NA    | NA        |

| AMD C-60                                        | 448                                  | 2056                   | NA                           | NA          |
|-------------------------------------------------|--------------------------------------|------------------------|------------------------------|-------------|
| AMD C-60 APU                                    | 546                                  | 1971                   | NA                           | NA          |
| AMD C-70 APU                                    | 571                                  | 1962                   | NA                           | NA          |
| AMD E1 Micro-6200T APU + AMD Radeon R2 Graphics | 960                                  | 1765                   | NA                           | NA          |
| AMD E1-1200 APU                                 | 667                                  | 1914                   | NA                           | NA          |
| CPU Name                                        | Passmark CPU Mark (higher is better) | Rank (lower is better) | CPU Value (higher is better) | Price (USD) |
| AMD E1-1500 APU                                 | 696                                  | 1901                   | NA                           | NA          |
| AMD E1-2100 APU                                 | 621                                  | 1934                   | NA                           | NA          |
| AMD E1-2200 APU                                 | 767                                  | 1867                   | NA                           | NA          |
| AMD E1-2500 APU                                 | 873                                  | 1816                   | NA                           | NA          |
| AMD E1-6010 APU                                 | 828                                  | 1843                   | NA                           | NA          |
| AMD E1-6015 APU                                 | 884                                  | 1808                   | NA                           | NA          |
| AMD E1-7010 APU                                 | 914                                  | 1796                   | NA                           | NA          |
| AMD E2-1800 APU                                 | 826                                  | 1845                   | NA                           | NA          |
| AMD E2-2000 APU                                 | 837                                  | 1839                   | NA                           | NA          |
| AMD E2-3000 APU                                 | 1100                                 | 1672                   | NA                           | NA          |
| AMD E2-3000M APU                                | 1095                                 | 1676                   | 54.79                        | \$20.00*    |
| AMD E2-3200 APU                                 | 1454                                 | 1489                   | NA                           | NA          |
| AMD E2-3800 APU                                 | 1608                                 | 1420                   | NA                           | NA          |
| AMD E2-6110 APU with AMD Radeon R2 Graphics     | 1871                                 | 1300                   | NA                           | NA          |
| AMD E2-7110 APU                                 | 2274                                 | 1140                   | NA                           | NA          |
| AMD E-240                                       | 318                                  | 2203                   | NA                           | NA          |
| AMD E-300 APU                                   | 616                                  | 1938                   | NA                           | NA          |
| AMD E-350                                       | 751                                  | 1872                   | NA                           | NA          |

|                                              |      |      |       |           |
|----------------------------------------------|------|------|-------|-----------|
| AMD E-350 APU                                | 773  | 1862 | NA    | NA        |
| AMD E-350D APU                               | 717  | 1887 | NA    | NA        |
| AMD E-450 APU                                | 772  | 1864 | NA    | NA        |
| AMD Embedded R-Series RX-421BD               | 4739 | 540  | NA    | NA        |
| AMD FirePro A320 APU                         | 4713 | 544  | NA    | NA        |
| AMD FX-670K Quad-Core                        | 4512 | 578  | NA    | NA        |
| AMD FX-770K Quad-Core                        | 4884 | 524  | NA    | NA        |
| AMD FX-870K Quad Core                        | 5321 | 468  | NA    | NA        |
| AMD FX-4100 Quad-Core                        | 4034 | 661  | 22.14 | \$182.25  |
| AMD FX-4130 Quad-Core                        | 4153 | 644  | 51.92 | \$79.99   |
| AMD FX-4150 Quad-Core                        | 4579 | 569  | NA    | NA        |
| AMD FX-4170 Quad-Core                        | 4813 | 529  | 33.52 | \$143.61* |
| AMD FX-4200 Quad-Core                        | 4205 | 636  | 18.43 | \$228.21* |
| AMD FX-4300 Quad-Core                        | 4615 | 562  | 63.23 | \$72.99   |
| AMD FX-4320                                  | 4940 | 510  | NA    | NA        |
| AMD FX-4330                                  | 5296 | 471  | NA    | NA        |
| AMD FX-4350 Quad-Core                        | 5248 | 475  | 61.76 | \$84.99   |
| AMD FX-6100 Six-Core                         | 5394 | 462  | 24.44 | \$220.75  |
| AMD FX-6120 Six-Core                         | 5738 | 417  | NA    | NA        |
| AMD FX-6130 Six-Core                         | 6215 | 372  | NA    | NA        |
| AMD FX-6200 Six-Core                         | 6104 | 381  | 50.88 | \$119.99  |
| AMD FX-6300 Six-Core                         | 6334 | 367  | 74.54 | \$84.99   |
| AMD FX-6350 Six-Core                         | 6952 | 319  | 60.46 | \$114.99  |
| AMD FX-7500 APU                              | 3231 | 847  | NA    | NA        |
| AMD FX-7600P                                 | 4110 | 652  | NA    | NA        |
| AMD FX-7600P APU with AMD Radeon R7 Graphics | 4627 | 561  | NA    | NA        |

| AMD FX-8100 Eight-Core  | 6114                                    | 379                       | 43.06                           | \$142.00*      |
|-------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD FX-8120 Eight-Core  | 6570                                    | 345                       | 37.94                           | \$173.18*      |
| AMD FX-8140 Eight-Core  | 5854                                    | 404                       | NA                              | NA             |
| AMD FX-8150 Eight-Core  | 7619                                    | 271                       | 45.90                           | \$165.99*      |
| AMD FX-8300 Eight-Core  | 7606                                    | 272                       | 66.15                           | \$114.99       |
| CPU Name                | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD FX-8310 Eight-Core  | 7714                                    | 267                       | NA                              | NA             |
| AMD FX-8320 Eight-Core  | 8009                                    | 249                       | 66.75                           | \$119.99       |
| AMD FX-8320E Eight-Core | 7457                                    | 285                       | 57.82                           | \$128.98       |
| AMD FX-8350 Eight-Core  | 8939                                    | 201                       | 63.86                           | \$139.99       |
| AMD FX-8370 Eight-Core  | 8925                                    | 202                       | 52.51                           | \$169.99       |
| AMD FX-8370E Eight-Core | 7750                                    | 264                       | 39.72                           | \$195.14       |
| AMD FX-8800P            | 4192                                    | 640                       | NA                              | NA             |
| AMD FX-9370 Eight-Core  | 9501                                    | 161                       | 47.51                           | \$199.99       |
| AMD FX-9590 Eight-Core  | 10245                                   | 120                       | 51.26                           | \$199.88       |
| AMD FX-9800P            | 4372                                    | 600                       | NA                              | NA             |
| AMD FX-B4150 Quad-Core  | 4412                                    | 593                       | NA                              | NA             |
| AMD G-T40E              | 485                                     | 2020                      | NA                              | NA             |
| AMD G-T40N              | 516                                     | 1994                      | NA                              | NA             |
| AMD G-T44R              | 227                                     | 2326                      | NA                              | NA             |
| AMD G-T48E              | 716                                     | 1888                      | NA                              | NA             |
| AMD G-T52R              | 303                                     | 2226                      | NA                              | NA             |
| AMD G-T56E              | 751                                     | 1873                      | NA                              | NA             |
| AMD G-T56N              | 791                                     | 1856                      | NA                              | NA             |
| AMD Geode NX            | 264                                     | 2286                      | NA                              | NA             |
| AMD Geode NX 1750       | 291                                     | 2242                      | NA                              | NA             |

|                                           |      |      |              |                  |
|-------------------------------------------|------|------|--------------|------------------|
| AMD GX-210JA SOC                          | 401  | 2112 | NA           | NA               |
| AMD GX-217GA SOC                          | 1084 | 1687 | NA           | NA               |
| AMD GX-222GC SOC                          | 983  | 1745 | NA           | NA               |
| AMD GX-412HC                              | 1462 | 1485 | NA           | NA               |
| AMD GX-415GA SOC                          | 1923 | 1273 | NA           | NA               |
| AMD GX-420CA SOC                          | 2320 | 1117 | NA           | NA               |
| AMD GX-424CC SOC with Radeon R5E Graphics | 2356 | 1105 | NA           | NA               |
| AMD K7                                    | 403  | 2103 | NA           | NA               |
| AMD Opteron 140                           | 396  | 2119 | <b>0.67</b>  | <b>\$595.50</b>  |
| AMD Opteron 142                           | 428  | 2079 | NA           | NA               |
| AMD Opteron 144                           | 511  | 1999 | <b>7.87</b>  | <b>\$65.00*</b>  |
| AMD Opteron 146                           | 532  | 1984 | <b>8.87</b>  | <b>\$59.99*</b>  |
| AMD Opteron 148                           | 603  | 1944 | NA           | NA               |
| AMD Opteron 150                           | 604  | 1942 | NA           | NA               |
| AMD Opteron 152                           | 658  | 1916 | NA           | NA               |
| AMD Opteron 154                           | 703  | 1898 | NA           | NA               |
| AMD Opteron 165                           | 899  | 1804 | <b>16.65</b> | <b>\$53.99*</b>  |
| AMD Opteron 170                           | 1097 | 1675 | NA           | NA               |
| AMD Opteron 175                           | 1175 | 1635 | NA           | NA               |
| AMD Opteron 180                           | 1234 | 1610 | <b>9.50</b>  | <b>\$129.95</b>  |
| AMD Opteron 185                           | 1359 | 1532 | NA           | NA               |
| AMD Opteron 246                           | 632  | 1929 | <b>5.80</b>  | <b>\$108.95*</b> |
| AMD Opteron 248                           | 476  | 2031 | <b>39.73</b> | <b>\$12.00*</b>  |
| AMD Opteron 250                           | 649  | 1920 | <b>54.10</b> | <b>\$12.00*</b>  |
| AMD Opteron 252                           | 760  | 1868 | <b>12.00</b> | <b>\$63.36</b>   |
| AMD Opteron 254                           | 693  | 1902 | NA           | NA               |
| AMD Opteron 256                           | 963  | 1761 | NA           | NA               |

| AMD Opteron 265     | 963                                     | 1763                      | 6.02                            | \$159.95*      |
|---------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Opteron 270     | 1083                                    | 1688                      | 1.84                            | \$589.55       |
| CPU Name            | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Opteron 275     | 1291                                    | 1575                      | 19.87                           | \$64.99        |
| AMD Opteron 280     | 1272                                    | 1585                      | 1.60                            | \$796.67*      |
| AMD Opteron 285     | 1470                                    | 1479                      | NA                              | NA             |
| AMD Opteron 290     | 1464                                    | 1482                      | 10.85                           | \$135.00*      |
| AMD Opteron 1210    | 923                                     | 1788                      | NA                              | NA             |
| AMD Opteron 1210 HE | 971                                     | 1754                      | NA                              | NA             |
| AMD Opteron 1212    | 1015                                    | 1725                      | 3.50                            | \$290.00*      |
| AMD Opteron 1212 HE | 1308                                    | 1560                      | NA                              | NA             |
| AMD Opteron 1214    | 1276                                    | 1583                      | 4.40                            | \$290.00*      |
| AMD Opteron 1214 HE | 1299                                    | 1566                      | NA                              | NA             |
| AMD Opteron 1216    | 1352                                    | 1534                      | 24.66                           | \$54.85*       |
| AMD Opteron 1216 HE | 1172                                    | 1639                      | NA                              | NA             |
| AMD Opteron 1218    | 1468                                    | 1480                      | NA                              | NA             |
| AMD Opteron 1218 HE | 1444                                    | 1492                      | NA                              | NA             |
| AMD Opteron 1220    | 1612                                    | 1419                      | NA                              | NA             |
| AMD Opteron 1222    | 1757                                    | 1346                      | NA                              | NA             |
| AMD Opteron 1352    | 2459                                    | 1074                      | 18.09                           | \$135.99*      |
| AMD Opteron 1354    | 2594                                    | 1033                      | 8.37                            | \$309.97*      |
| AMD Opteron 1356    | 2765                                    | 987                       | 30.73                           | \$89.99*       |
| AMD Opteron 1381    | 3065                                    | 893                       | NA                              | NA             |
| AMD Opteron 2212    | 1270                                    | 1588                      | 105.89                          | \$12.00        |
| AMD Opteron 2214    | 1358                                    | 1533                      | 2.39                            | \$569.00*      |
| AMD Opteron 2214 HE | 1415                                    | 1504                      | NA                              | NA             |

|                                        |      |      |        |           |
|----------------------------------------|------|------|--------|-----------|
| AMD Opteron 2216                       | 1518 | 1460 | 8.53   | \$178.00  |
| AMD Opteron 2218                       | 1594 | 1431 | 25.16  | \$63.36   |
| AMD Opteron 2220                       | 1701 | 1376 | 68.07  | \$25.00   |
| AMD Opteron 2220 SE                    | 1398 | 1512 | NA     | NA        |
| AMD Opteron 2224 SE                    | 1919 | 1274 | NA     | NA        |
| AMD Opteron 2350                       | 2820 | 969  | 10.45  | \$269.99* |
| AMD Opteron 2356                       | 2814 | 971  | 40.30  | \$69.83   |
| AMD Opteron 2374 HE                    | 2951 | 932  | 15.53  | \$189.99* |
| AMD Opteron 2376                       | 2283 | 1136 | 13.69  | \$166.80  |
| AMD Opteron 2378                       | 3179 | 866  | 17.76  | \$179.00* |
| AMD Opteron 2380                       | 2640 | 1017 | 220.08 | \$12.00   |
| AMD Opteron 2384                       | 3538 | 771  | 4.21   | \$840.00* |
| AMD Opteron 2386 SE                    | 3538 | 772  | NA     | NA        |
| AMD Opteron 2393 SE                    | 2246 | 1149 | NA     | NA        |
| AMD Opteron 2427                       | 3069 | 892  | 32.26  | \$95.14   |
| AMD Opteron 2431                       | 4516 | 576  | 122.07 | \$37.00   |
| AMD Opteron 2435                       | 4708 | 545  | 39.11  | \$120.40* |
| AMD Opteron 3260 HE                    | 3259 | 840  | NA     | NA        |
| AMD Opteron 3280                       | 5271 | 473  | 19.30  | \$273.18* |
| AMD Opteron 3320 EE                    | 2532 | 1050 | NA     | NA        |
| AMD Opteron 3350 HE                    | 4009 | 666  | NA     | NA        |
| AMD Opteron 3365                       | 5717 | 420  | NA     | NA        |
| AMD Opteron 3380                       | 6384 | 363  | NA     | NA        |
| AMD Opteron 4122                       | 2942 | 934  | 11.32  | \$259.95  |
| AMD Opteron 4162 EE                    | 3166 | 871  | NA     | NA        |
| AMD Opteron 4280                       | 6430 | 359  | 14.09  | \$456.44* |
| Passmark CPU Benchmark CPU Value Price |      |      |        |           |

| CPU Name                    | Mark<br>(higher is better) | Rank<br>(lower is better) | CPU value<br>(higher is better) | Price<br>(USD) |
|-----------------------------|----------------------------|---------------------------|---------------------------------|----------------|
| AMD Opteron 4284            | 6660                       | 334                       | 18.64                           | \$357.30*      |
| AMD Opteron 4332 HE         | 5369                       | 465                       | NA                              | NA             |
| AMD Opteron 6128            | 4742                       | 539                       | 22.95                           | \$206.67       |
| AMD Opteron 6134            | 2938                       | 935                       | 4.93                            | \$595.95*      |
| AMD Opteron 6136            | 4631                       | 557                       | 7.13                            | \$649.95*      |
| AMD Opteron 6164 HE         | 5351                       | 466                       | NA                              | NA             |
| AMD Opteron 6174            | 6412                       | 360                       | 44.89                           | \$142.87       |
| AMD Opteron 6212            | 5776                       | 414                       | 27.57                           | \$209.50       |
| AMD Opteron 6234            | 5979                       | 391                       | 14.95                           | \$399.99*      |
| AMD Opteron 6238            | 7316                       | 294                       | 6.72                            | \$1,088.11*    |
| AMD Opteron 6272            | 6748                       | 330                       | 20.77                           | \$325.00       |
| AMD Opteron 6274            | 4865                       | 528                       | 5.35                            | \$908.95       |
| AMD Opteron 6276            | 9011                       | 196                       | 90.80                           | \$99.25        |
| AMD Opteron 6282 SE         | 9116                       | 188                       | 8.36                            | \$1,089.99*    |
| AMD Opteron 6287 SE         | 9595                       | 155                       | NA                              | NA             |
| AMD Opteron 6328            | 7813                       | 261                       | 12.75                           | \$613.00       |
| AMD Opteron 6366 HE         | 7503                       | 281                       | NA                              | NA             |
| AMD Opteron 6376            | 9414                       | 168                       | 13.45                           | \$699.99       |
| AMD Opteron 6378            | 2152                       | 1190                      | 2.23                            | \$967.03*      |
| AMD Opteron 6380            | 10082                      | 124                       | 8.65                            | \$1,166.17     |
| AMD Opteron 8354            | 2255                       | 1146                      | 187.96                          | \$12.00        |
| AMD Opteron 8439 SE         | 3813                       | 711                       | NA                              | NA             |
| AMD Phenom 2 X4 12000       | 3005                       | 915                       | NA                              | NA             |
| AMD Phenom 7950 Quad-Core   | 2991                       | 922                       | NA                              | NA             |
| AMD Phenom 8250 Triple-Core | 1599                       | 1427                      | NA                              | NA             |

| AMD Phenom 8250e Triple-Core | 1579                                    | 1437                      | 33.60                           | \$46.99*       |
|------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Phenom 8400 Triple-Core  | 1664                                    | 1400                      | NA                              | NA             |
| AMD Phenom 8450 Triple-Core  | 1883                                    | 1294                      | 36.94                           | \$50.99*       |
| AMD Phenom 8450e Triple-Core | 2035                                    | 1232                      | NA                              | NA             |
| AMD Phenom 8600 Triple-Core  | 1690                                    | 1384                      | 31.91                           | \$52.99*       |
| AMD Phenom 8600B Triple-Core | 1933                                    | 1269                      | 36.49                           | \$52.99*       |
| AMD Phenom 8650 Triple-Core  | 2007                                    | 1244                      | 40.16                           | \$49.99*       |
| AMD Phenom 8750 Triple-Core  | 2077                                    | 1220                      | NA                              | NA             |
| AMD Phenom 8750B Triple-Core | 2077                                    | 1221                      | NA                              | NA             |
| AMD Phenom 8850 Triple-Core  | 2237                                    | 1156                      | NA                              | NA             |
| AMD Phenom 8850B Triple-Core | 2080                                    | 1219                      | NA                              | NA             |
| AMD Phenom 9100e Quad-Core   | 1882                                    | 1296                      | 10.47                           | \$179.81*      |
| AMD Phenom 9150e Quad-Core   | 2130                                    | 1198                      | 53.32                           | \$39.95*       |
| AMD Phenom 9350e Quad-Core   | 2337                                    | 1111                      | 11.99                           | \$194.99*      |
| AMD Phenom 9450e Quad-Core   | 2644                                    | 1016                      | 25.19                           | \$105.00*      |
| AMD Phenom 9500 Quad-Core    | 2220                                    | 1167                      | 24.68                           | \$89.96*       |
| AMD Phenom 9550 Quad-Core    | 2558                                    | 1046                      | 64.05                           | \$39.95*       |
| AMD Phenom 9600 Quad-Core    | 2316                                    | 1119                      | 16.54                           | \$140.00*      |
| AMD Phenom 9600B Quad-Core   | 2577                                    | 1040                      | 17.51                           | \$147.19*      |
| AMD Phenom 9650 Quad-Core    | 2649                                    | 1013                      | 48.22                           | \$54.95*       |
| AMD Phenom 9750 Quad-Core    | 2829                                    | 965                       | 47.20                           | \$59.95        |
| AMD Phenom 9750B Quad-Core   | 2709                                    | 1000                      | NA                              | NA             |
| AMD Phenom 9850 Quad-Core    | 2907                                    | 942                       | 58.15                           | \$50.00*       |
| AMD Phenom 9850B Quad-Core   | 3160                                    | 876                       | NA                              | NA             |
| CPU Name                     | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Phenom 9950 Quad-Core    | 3045                                    | 903                       | 16.92                           | \$179.98*      |

|                                     |      |      |       |           |
|-------------------------------------|------|------|-------|-----------|
| AMD Phenom FX-5000 Quad-Core        | 2508 | 1058 | NA    | NA        |
| AMD Phenom FX-5200 Quad-Core        | 2948 | 933  | NA    | NA        |
| AMD Phenom FX-7750 Quad-Core        | 3616 | 752  | NA    | NA        |
| AMD Phenom II 42 TWKR Black Edition | 3489 | 787  | NA    | NA        |
| AMD Phenom II N620 Dual-Core        | 1676 | 1396 | 42.05 | \$39.86*  |
| AMD Phenom II N640 Dual-Core        | 1730 | 1357 | NA    | NA        |
| AMD Phenom II N660 Dual-Core        | 1856 | 1307 | 18.75 | \$99.00*  |
| AMD Phenom II N830 3+1              | 2652 | 1011 | NA    | NA        |
| AMD Phenom II N830 Triple-Core      | 1884 | 1293 | NA    | NA        |
| AMD Phenom II N850 Triple-Core      | 1981 | 1251 | 79.24 | \$25.00*  |
| AMD Phenom II N870 Triple-Core      | 1952 | 1260 | NA    | NA        |
| AMD Phenom II N930 Quad-Core        | 2304 | 1126 | 23.28 | \$99.00*  |
| AMD Phenom II N950 Quad-Core        | 2504 | 1062 | 22.24 | \$112.60* |
| AMD Phenom II N970 Quad-Core        | 2523 | 1053 | 16.82 | \$149.99* |
| AMD Phenom II P650 Dual-Core        | 1601 | 1425 | 45.77 | \$35.00*  |
| AMD Phenom II P820 Triple-Core      | 1597 | 1429 | NA    | NA        |
| AMD Phenom II P840 Triple-Core      | 1728 | 1358 | NA    | NA        |
| AMD Phenom II P860 Triple-Core      | 1761 | 1344 | NA    | NA        |
| AMD Phenom II P920 Quad-Core        | 1890 | 1285 | 25.21 | \$75.00*  |
| AMD Phenom II P940 Quad-Core        | 1782 | 1336 | NA    | NA        |
| AMD Phenom II P960 Quad-Core        | 2099 | 1213 | 74.98 | \$28.00*  |
| AMD Phenom II X2 511                | 2113 | 1204 | NA    | NA        |
| AMD Phenom II X2 521                | 2088 | 1217 | NA    | NA        |
| AMD Phenom II X2 545                | 1887 | 1289 | 19.67 | \$95.99*  |
| AMD Phenom II X2 550                | 2038 | 1231 | 20.39 | \$99.99*  |
| AMD Phenom II X2 555                | 2053 | 1227 | 6.84  | \$299.95* |
| AMD Phenom II X2 560                | 2076 | 1222 | 20.76 | \$100.00  |

| AMD Phenom II X2 565  | 2189                                    | 1181                      | 11.82                           | \$185.20*      |
|-----------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Phenom II X2 570  | 1859                                    | 1305                      | NA                              | NA             |
| AMD Phenom II X2 B53  | 1646                                    | 1407                      | NA                              | NA             |
| AMD Phenom II X2 B55  | 1970                                    | 1254                      | 41.05                           | \$48.00*       |
| AMD Phenom II X2 B57  | 1884                                    | 1292                      | NA                              | NA             |
| AMD Phenom II X2 B59  | 2131                                    | 1195                      | 35.56                           | \$59.95        |
| AMD Phenom II X3 700e | 2232                                    | 1159                      | NA                              | NA             |
| AMD Phenom II X3 705e | 2244                                    | 1151                      | 14.74                           | \$152.34*      |
| AMD Phenom II X3 710  | 2455                                    | 1077                      | 29.05                           | \$84.53*       |
| AMD Phenom II X3 715  | 2649                                    | 1014                      | 31.17                           | \$84.99*       |
| AMD Phenom II X3 720  | 2698                                    | 1001                      | 35.98                           | \$74.99*       |
| AMD Phenom II X3 740  | 3009                                    | 913                       | 33.82                           | \$88.99*       |
| AMD Phenom II X3 B73  | 2749                                    | 990                       | 36.66                           | \$75.00*       |
| AMD Phenom II X3 B75  | 3157                                    | 877                       | NA                              | NA             |
| AMD Phenom II X3 B77  | 3288                                    | 832                       | NA                              | NA             |
| AMD Phenom II X4 805  | 3020                                    | 908                       | 17.36                           | \$173.99*      |
| AMD Phenom II X4 810  | 3165                                    | 872                       | 27.29                           | \$115.99*      |
| AMD Phenom II X4 820  | 3442                                    | 803                       | 38.25                           | \$89.99*       |
| AMD Phenom II X4 830  | 3487                                    | 788                       | 43.62                           | \$79.95*       |
| AMD Phenom II X4 840  | 3534                                    | 773                       | 22.09                           | \$160.00*      |
| AMD Phenom II X4 840T | 3639                                    | 748                       | NA                              | NA             |
| CPU Name              | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Phenom II X4 850  | 3539                                    | 770                       | 31.74                           | \$111.49*      |
| AMD Phenom II X4 900e | 2853                                    | 958                       | NA                              | NA             |
| AMD Phenom II X4 905e | 3131                                    | 881                       | 16.10                           | \$194.46*      |
| AMD Phenom II X4 910  | 3298                                    | 829                       | 32.98                           | \$100.00*      |

|                        |      |      |       |           |
|------------------------|------|------|-------|-----------|
| AMD Phenom II X4 910e  | 3368 | 818  | 21.46 | \$156.99* |
| AMD Phenom II X4 920   | 3448 | 801  | 24.63 | \$140.00* |
| AMD Phenom II X4 925   | 3464 | 795  | 21.65 | \$159.99* |
| AMD Phenom II X4 940   | 3631 | 751  | 34.59 | \$104.99* |
| AMD Phenom II X4 945   | 3713 | 732  | 9.66  | \$384.55  |
| AMD Phenom II X4 955   | 3988 | 669  | 33.24 | \$119.99* |
| AMD Phenom II X4 960T  | 3837 | 702  | 32.04 | \$119.78* |
| AMD Phenom II X4 965   | 4238 | 630  | 29.23 | \$145.00* |
| AMD Phenom II X4 970   | 4393 | 596  | 35.15 | \$124.99* |
| AMD Phenom II X4 973   | 3759 | 720  | NA    | NA        |
| AMD Phenom II X4 975   | 4561 | 571  | 35.09 | \$129.99* |
| AMD Phenom II X4 977   | 3750 | 723  | NA    | NA        |
| AMD Phenom II X4 980   | 4553 | 573  | 33.33 | \$136.64* |
| AMD Phenom II X4 8700e | 2377 | 1101 | NA    | NA        |
| AMD Phenom II X4 B05e  | 2781 | 982  | NA    | NA        |
| AMD Phenom II X4 B15e  | 2736 | 993  | NA    | NA        |
| AMD Phenom II X4 B25   | 3541 | 769  | NA    | NA        |
| AMD Phenom II X4 B35   | 3446 | 802  | NA    | NA        |
| AMD Phenom II X4 B40   | 3431 | 807  | NA    | NA        |
| AMD Phenom II X4 B45   | 3500 | 782  | NA    | NA        |
| AMD Phenom II X4 B50   | 3731 | 728  | NA    | NA        |
| AMD Phenom II X4 B55   | 3901 | 692  | NA    | NA        |
| AMD Phenom II X4 B60   | 4091 | 654  | NA    | NA        |
| AMD Phenom II X4 B65   | 4177 | 641  | NA    | NA        |
| AMD Phenom II X4 B70   | 4426 | 591  | NA    | NA        |
| AMD Phenom II X4 B93   | 3378 | 815  | NA    | NA        |
| AMD Phenom II X4 B95   | 3841 | 700  | 17.07 | \$225.00* |

| AMD Phenom II X4 B97            | 3960                                    | 674                       | NA                              | NA             |
|---------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Phenom II X4 B99            | 4206                                    | 635                       | NA                              | NA             |
| AMD Phenom II X6 1035T          | 4732                                    | 542                       | 25.04                           | \$189.00*      |
| AMD Phenom II X6 1045T          | 4878                                    | 526                       | 27.88                           | \$175.00*      |
| AMD Phenom II X6 1055T          | 5040                                    | 500                       | 27.25                           | \$185.00*      |
| AMD Phenom II X6 1065T          | 5176                                    | 484                       | NA                              | NA             |
| AMD Phenom II X6 1075T          | 5402                                    | 460                       | 20.78                           | \$259.99*      |
| AMD Phenom II X6 1090T          | 5659                                    | 428                       | 11.70                           | \$483.55*      |
| AMD Phenom II X6 1100T          | 5817                                    | 410                       | 16.62                           | \$350.00*      |
| AMD Phenom II X620 Dual-Core    | 2189                                    | 1180                      | NA                              | NA             |
| AMD Phenom II X640 Dual-Core    | 2021                                    | 1239                      | NA                              | NA             |
| AMD Phenom II X920 Quad-Core    | 2648                                    | 1015                      | NA                              | NA             |
| AMD Phenom II X940 Quad-Core    | 2695                                    | 1003                      | NA                              | NA             |
| AMD Phenom Ultra X4 24500       | 3945                                    | 679                       | NA                              | NA             |
| AMD Phenom X2 Dual-Core GE-4060 | 1697                                    | 1378                      | NA                              | NA             |
| AMD Phenom X2 Dual-Core GE-5560 | 2206                                    | 1176                      | NA                              | NA             |
| AMD Phenom X2 Dual-Core GP-5000 | 1180                                    | 1633                      | NA                              | NA             |
| AMD Phenom X2 Dual-Core GP-7730 | 1435                                    | 1496                      | NA                              | NA             |
| CPU Name                        | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Phenom X3 8550              | 1925                                    | 1272                      | 11.33                           | \$169.95*      |
| AMD Phenom X4 Quad-Core GP-9500 | 1710                                    | 1367                      | NA                              | NA             |
| AMD Phenom X4 Quad-Core GP-9600 | 2235                                    | 1158                      | NA                              | NA             |
| AMD Phenom X4 Quad-Core GP-9830 | 2715                                    | 998                       | NA                              | NA             |
| AMD Phenom X4 Quad-Core GP-9930 | 2690                                    | 1005                      | NA                              | NA             |
| AMD Phenom X4 Quad-Core GS-5560 | 1211                                    | 1619                      | NA                              | NA             |
| AMD PRO A4-3350B APU            | 2691                                    | 1004                      | NA                              | NA             |

|                   |      |      |       |          |
|-------------------|------|------|-------|----------|
| AMD PRO A4-8350B  | 2881 | 953  | NA    | NA       |
| AMD PRO A6-8500B  | 2511 | 1056 | NA    | NA       |
| AMD PRO A6-8550B  | 3042 | 905  | NA    | NA       |
| AMD PRO A8-8600B  | 4066 | 656  | NA    | NA       |
| AMD PRO A8-8650B  | 5521 | 444  | NA    | NA       |
| AMD PRO A8-9600   | 5554 | 438  | NA    | NA       |
| AMD PRO A10-8700B | 3860 | 697  | NA    | NA       |
| AMD PRO A10-8750B | 5653 | 430  | NA    | NA       |
| AMD PRO A10-8850B | 5828 | 408  | NA    | NA       |
| AMD PRO A10-9700  | 5693 | 424  | NA    | NA       |
| AMD PRO A10-9700E | 5164 | 488  | NA    | NA       |
| AMD PRO A12-8800B | 4333 | 607  | NA    | NA       |
| AMD PRO A12-8870E | 4808 | 530  | NA    | NA       |
| AMD PRO A12-9800B | 3946 | 678  | NA    | NA       |
| AMD QC-4000       | 1601 | 1426 | NA    | NA       |
| AMD R-460L APU    | 1954 | 1259 | NA    | NA       |
| AMD R-464L APU    | 3019 | 910  | NA    | NA       |
| AMD RX-427BB      | 4468 | 587  | NA    | NA       |
| AMD Sempron 130   | 731  | 1879 | 29.29 | \$24.99* |
| AMD Sempron 140   | 738  | 1877 | 77.80 | \$9.49*  |
| AMD Sempron 145   | 803  | 1853 | 8.47  | \$94.92  |
| AMD Sempron 150   | 691  | 1903 | 9.52  | \$72.64* |
| AMD Sempron 200U  | 267  | 2282 | 3.08  | \$87.00* |
| AMD Sempron 210U  | 382  | 2131 | NA    | NA       |
| AMD Sempron 2100+ | 392  | 2123 | NA    | NA       |
| AMD Sempron 2200+ | 280  | 2266 | 9.34  | \$29.99* |
| AMD Sempron 2300+ | 318  | 2204 | 7.07  | \$45.00* |

| AMD Sempron 2400+                   | 313                                     | 2210                      | 11.62                           | \$27.00        |
|-------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Sempron 2500+                   | 344                                     | 2180                      | 4.31                            | \$79.95*       |
| AMD Sempron 2600+                   | 373                                     | 2142                      | 6.24                            | \$59.95        |
| AMD Sempron 2650 APU with Radeon R3 | 854                                     | 1827                      | 27.97                           | \$30.55        |
| AMD Sempron 2800+                   | 384                                     | 2130                      | 3.69                            | \$104.07*      |
| AMD Sempron 3000+                   | 408                                     | 2096                      | 20.42                           | \$20.00        |
| AMD Sempron 3100+                   | 452                                     | 2051                      | 7.53                            | \$60.00*       |
| AMD Sempron 3200+                   | 411                                     | 2093                      | 1.53                            | \$269.75*      |
| AMD Sempron 3300+                   | 484                                     | 2023                      | 16.14                           | \$30.00        |
| AMD Sempron 3400+                   | 448                                     | 2058                      | 37.38                           | \$12.00        |
| AMD Sempron 3500+                   | 402                                     | 2108                      | 2.43                            | \$165.61       |
| AMD Sempron 3600+                   | 480                                     | 2027                      | 40.07                           | \$12.00        |
| AMD Sempron 3800+                   | 554                                     | 1970                      | 26.39                           | \$21.00        |
| AMD Sempron 3850 APU with Radeon R3 | 1694                                    | 1380                      | 47.85                           | \$35.41        |
| AMD Sempron Dual Core 2100          | 869                                     | 1821                      | 22.29                           | \$39.00*       |
| CPU Name                            | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Sempron Dual Core 2200          | 995                                     | 1740                      | NA                              | NA             |
| AMD Sempron Dual Core 2300          | 982                                     | 1746                      | 23.39                           | \$41.99*       |
| AMD Sempron Dual Core 4700          | 948                                     | 1772                      | NA                              | NA             |
| AMD Sempron Dual Core 4900          | 1081                                    | 1691                      | NA                              | NA             |
| AMD Sempron LE-250                  | 490                                     | 2014                      | NA                              | NA             |
| AMD Sempron LE-1100                 | 424                                     | 2082                      | NA                              | NA             |
| AMD Sempron LE-1150                 | 435                                     | 2073                      | NA                              | NA             |
| AMD Sempron LE-1200                 | 518                                     | 1991                      | NA                              | NA             |
| AMD Sempron LE-1250                 | 540                                     | 1977                      | 18.66                           | \$28.99*       |
| AMD Sempron LE-1300                 | 618                                     | 1936                      | 51.55                           | \$12.00        |

|                               |      |      |       |           |
|-------------------------------|------|------|-------|-----------|
| AMD Sempron LE-1600           | 535  | 1982 | NA    | NA        |
| AMD Sempron LE-1620           | 635  | 1928 | NA    | NA        |
| AMD Sempron LE-1640           | 759  | 1869 | NA    | NA        |
| AMD Sempron M100              | 581  | 1955 | 48.42 | \$12.00   |
| AMD Sempron M120              | 582  | 1954 | NA    | NA        |
| AMD Sempron SI-40             | 448  | 2057 | 37.39 | \$12.00   |
| AMD Sempron SI-42             | 449  | 2055 | 37.42 | \$12.00   |
| AMD Sempron X2 180            | 1252 | 1598 | 18.05 | \$69.40*  |
| AMD Sempron X2 190            | 1516 | 1461 | 18.18 | \$83.44*  |
| AMD Sempron X2 198 Dual-Core  | 1413 | 1505 | NA    | NA        |
| AMD Turion 64 Mobile MK-36    | 463  | 2040 | NA    | NA        |
| AMD Turion 64 Mobile MK-38    | 505  | 2003 | NA    | NA        |
| AMD Turion 64 Mobile ML-28    | 390  | 2126 | NA    | NA        |
| AMD Turion 64 Mobile ML-30    | 397  | 2117 | NA    | NA        |
| AMD Turion 64 Mobile ML-32    | 403  | 2101 | NA    | NA        |
| AMD Turion 64 Mobile ML-34    | 425  | 2081 | NA    | NA        |
| AMD Turion 64 Mobile ML-37    | 445  | 2060 | 2.27  | \$196.50* |
| AMD Turion 64 Mobile ML-40    | 520  | 1990 | NA    | NA        |
| AMD Turion 64 Mobile ML-42    | 615  | 1939 | NA    | NA        |
| AMD Turion 64 Mobile ML-44    | 591  | 1949 | NA    | NA        |
| AMD Turion 64 Mobile MT-28    | 419  | 2083 | NA    | NA        |
| AMD Turion 64 Mobile MT-30    | 378  | 2135 | NA    | NA        |
| AMD Turion 64 Mobile MT-32    | 425  | 2080 | NA    | NA        |
| AMD Turion 64 Mobile MT-34    | 414  | 2088 | NA    | NA        |
| AMD Turion 64 Mobile MT-37    | 484  | 2022 | NA    | NA        |
| AMD Turion 64 Mobile MT-40    | 536  | 1981 | NA    | NA        |
| AMD Turion 64 X2 Mobile TL-50 | 754  | 1871 | 42.03 | \$17.95*  |

| AMD Turion 64 X2 Mobile TL-52             | 757                                     | 1870                      | NA                              | NA             |
|-------------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD Turion 64 X2 Mobile TL-56             | 872                                     | 1817                      | 43.64                           | \$20.00        |
| AMD Turion 64 X2 Mobile TL-58             | 950                                     | 1771                      | NA                              | NA             |
| AMD Turion 64 X2 Mobile TL-60             | 985                                     | 1744                      | 44.91                           | \$21.95*       |
| AMD Turion 64 X2 Mobile TL-62             | 1093                                    | 1680                      | 3.52                            | \$311.00*      |
| AMD Turion 64 X2 Mobile TL-64             | 1131                                    | 1659                      | 28.73                           | \$39.39*       |
| AMD Turion 64 X2 Mobile TL-66             | 1094                                    | 1679                      | 2.90                            | \$378.00*      |
| AMD Turion 64 X2 Mobile TL-68             | 1130                                    | 1660                      | 12.56                           | \$90.00*       |
| AMD Turion Dual-Core RM-70                | 886                                     | 1807                      | 59.10                           | \$15.00*       |
| AMD Turion Dual-Core RM-72                | 806                                     | 1850                      | 21.22                           | \$38.00*       |
| AMD Turion Dual-Core RM-74                | 1016                                    | 1724                      | NA                              | NA             |
| AMD Turion Dual-Core RM-75                | 925                                     | 1786                      | 33.13                           | \$27.95*       |
| CPU Name                                  | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| AMD Turion II Dual-Core Mobile M500       | 1309                                    | 1556                      | NA                              | NA             |
| AMD Turion II Dual-Core Mobile M520       | 1299                                    | 1565                      | 17.92                           | \$72.55*       |
| AMD Turion II Dual-Core Mobile M540       | 1295                                    | 1573                      | NA                              | NA             |
| AMD Turion II N530 Dual-Core              | 1576                                    | 1438                      | 52.56                           | \$30.00*       |
| AMD Turion II N550 Dual-Core              | 1521                                    | 1458                      | NA                              | NA             |
| AMD Turion II Neo K625 Dual-Core          | 973                                     | 1750                      | NA                              | NA             |
| AMD Turion II Neo K685 Dual-Core          | 1186                                    | 1632                      | NA                              | NA             |
| AMD Turion II Neo N40L Dual-Core          | 913                                     | 1798                      | NA                              | NA             |
| AMD Turion II Neo N54L Dual-Core          | 1397                                    | 1513                      | NA                              | NA             |
| AMD Turion II P520 Dual-Core              | 1360                                    | 1530                      | NA                              | NA             |
| AMD Turion II P540 Dual-Core              | 1460                                    | 1486                      | 48.85                           | \$29.89*       |
| AMD Turion II P560 Dual-Core              | 1502                                    | 1467                      | NA                              | NA             |
| AMD Turion II Ultra Dual-Core Mobile M600 | 1391                                    | 1516                      | 60.51                           | \$23.00*       |

|                                            |      |      |       |           |
|--------------------------------------------|------|------|-------|-----------|
| AMD Turion II Ultra Dual-Core Mobile M620  | 1418 | 1503 | NA    | NA        |
| AMD Turion II Ultra Dual-Core Mobile M640  | 1669 | 1399 | NA    | NA        |
| AMD Turion II Ultra Dual-Core Mobile M660  | 1526 | 1455 | NA    | NA        |
| AMD Turion Neo X2 Dual Core L625           | 836  | 1840 | NA    | NA        |
| AMD Turion X2 Dual Core L510               | 871  | 1819 | NA    | NA        |
| AMD Turion X2 Dual Core Mobile RM-70       | 939  | 1778 | 7.08  | \$132.56* |
| AMD Turion X2 Dual Core Mobile RM-76       | 1047 | 1705 | NA    | NA        |
| AMD Turion X2 Dual-Core Mobile RM-70       | 998  | 1737 | NA    | NA        |
| AMD Turion X2 Dual-Core Mobile RM-72       | 1091 | 1682 | 4.87  | \$224.26* |
| AMD Turion X2 Dual-Core Mobile RM-74       | 1064 | 1699 | 35.56 | \$29.95*  |
| AMD Turion X2 Dual-Core Mobile RM-75       | 1141 | 1657 | NA    | NA        |
| AMD Turion X2 Dual-Core Mobile RM-77       | 1230 | 1613 | NA    | NA        |
| AMD Turion X2 Ultra Dual-Core Mobile ZM-80 | 996  | 1739 | 66.43 | \$15.00*  |
| AMD Turion X2 Ultra Dual-Core Mobile ZM-82 | 1077 | 1694 | NA    | NA        |
| AMD Turion X2 Ultra Dual-Core Mobile ZM-84 | 1197 | 1627 | 85.62 | \$13.99   |
| AMD Turion X2 Ultra Dual-Core Mobile ZM-85 | 1209 | 1620 | NA    | NA        |
| AMD Turion X2 Ultra Dual-Core Mobile ZM-86 | 1279 | 1580 | 23.26 | \$55.00   |
| AMD Turion X2 Ultra Dual-Core Mobile ZM-87 | 1344 | 1542 | 33.66 | \$39.95*  |
| AMD TurionX2 Dual Core Mobile RM-70        | 993  | 1742 | NA    | NA        |
| AMD TurionX2 Dual Core Mobile RM-72        | 1112 | 1668 | NA    | NA        |
| AMD TurionX2 Ultra DualCore Mobile ZM-85   | 1454 | 1488 | NA    | NA        |
| AMD V105                                   | 274  | 2276 | NA    | NA        |
| AMD V120                                   | 637  | 1927 | NA    | NA        |
| AMD V140                                   | 642  | 1925 | 49.42 | \$13.00*  |
| AMD V160                                   | 683  | 1907 | NA    | NA        |
| AMD Z-01                                   | 523  | 1987 | NA    | NA        |
| AMD Z-60 APU                               | 555  | 1969 | NA    | NA        |

| AMD-K6 3D                         | 90                                      | 2402                      | NA                              | NA             |
|-----------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| AMD-K6-III                        | 108                                     | 2399                      | NA                              | NA             |
| AMD-K7                            | 403                                     | 2105                      | NA                              | NA             |
| Athlon 64 Dual Core 3800+         | 1234                                    | 1609                      | NA                              | NA             |
| Athlon 64 Dual Core 4200+         | 1156                                    | 1646                      | NA                              | NA             |
| Athlon 64 Dual Core 4800+         | 1370                                    | 1527                      | NA                              | NA             |
| Athlon 64 Dual Core 5000+         | 1497                                    | 1468                      | NA                              | NA             |
| Athlon 64 Dual Core 5400+         | 1614                                    | 1417                      | NA                              | NA             |
| Athlon 64 Dual Core 5600+         | 1548                                    | 1451                      | NA                              | NA             |
| CPU Name                          | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Athlon Dual Core 4050e            | 914                                     | 1797                      | NA                              | NA             |
| Athlon Dual Core 4450e            | 1081                                    | 1692                      | NA                              | NA             |
| Athlon Dual Core 4850e            | 1327                                    | 1549                      | NA                              | NA             |
| Celeron Dual-Core Q8300 @ 2.50GHz | 2837                                    | 963                       | NA                              | NA             |
| Celeron Dual-Core T3000 @ 1.80GHz | 1086                                    | 1686                      | NA                              | NA             |
| Celeron Dual-Core T3100 @ 1.90GHz | 1174                                    | 1636                      | NA                              | NA             |
| Celeron Dual-Core T3300 @ 2.00GHz | 1236                                    | 1607                      | NA                              | NA             |
| Celeron Dual-Core T3500 @ 2.10GHz | 1296                                    | 1569                      | NA                              | NA             |
| Dual-Core AMD Opteron 1220 SE     | 1206                                    | 1621                      | NA                              | NA             |
| HP Hexa-Core 2.0GHz               | 2178                                    | 1183                      | 4.32                            | \$504.27*      |
| Intel 1300 @ 1.66GHz              | 857                                     | 1825                      | NA                              | NA             |
| Intel 1400 @ 1.83GHz              | 980                                     | 1747                      | NA                              | NA             |
| Intel 1500 @ 2.00GHz              | 1024                                    | 1720                      | NA                              | NA             |
| Intel Atom 230 @ 1.60GHz          | 307                                     | 2218                      | NA                              | NA             |
| Intel Atom 330 @ 1.60GHz          | 591                                     | 1948                      | NA                              | NA             |
| Intel Atom C2338 @ 1.74GHz        | 898                                     | 1805                      | NA                              | NA             |

|                            |      |      |       |           |
|----------------------------|------|------|-------|-----------|
| Intel Atom C2358 @ 1.74GHz | 961  | 1764 | NA    | NA        |
| Intel Atom C2550 @ 2.40GHz | 2329 | 1114 | NA    | NA        |
| Intel Atom C2558 @ 2.40GHz | 2169 | 1186 | 16.82 | \$129.00  |
| Intel Atom C2750 @ 2.40GHz | 3800 | 714  | 16.38 | \$232.00* |
| Intel Atom C2750 @ 2.41GHz | 3344 | 822  | NA    | NA        |
| Intel Atom C2758 @ 2.40GHz | 3162 | 875  | 14.72 | \$214.83  |
| Intel Atom D410 @ 1.66GHz  | 310  | 2214 | 0.49  | \$635.99* |
| Intel Atom D425 @ 1.80GHz  | 340  | 2183 | 0.34  | \$992.98* |
| Intel Atom D510 @ 1.66GHz  | 654  | 1918 | 6.00  | \$109.00* |
| Intel Atom D525 @ 1.80GHz  | 701  | 1899 | NA    | NA        |
| Intel Atom D2500 @ 1.86GHz | 401  | 2109 | NA    | NA        |
| Intel Atom D2550 @ 1.86GHz | 664  | 1915 | NA    | NA        |
| Intel Atom D2560 @ 2.00GHz | 711  | 1893 | NA    | NA        |
| Intel Atom D2700 @ 2.13GHz | 839  | 1835 | NA    | NA        |
| Intel Atom D2701 @ 2.13GHz | 720  | 1885 | NA    | NA        |
| Intel Atom E660 @ 1.30GHz  | 271  | 2279 | 5.03  | \$54.00*  |
| Intel Atom E680 @ 1.60GHz  | 346  | 2177 | NA    | NA        |
| Intel Atom E3815 @ 1.46GHz | 362  | 2160 | 4.48  | \$81.00   |
| Intel Atom E3825 @ 1.33GHz | 556  | 1968 | 6.96  | \$80.00*  |
| Intel Atom E3826 @ 1.46GHz | 402  | 2106 | NA    | NA        |
| Intel Atom E3827 @ 1.74GHz | 849  | 1828 | NA    | NA        |
| Intel Atom E3840 @ 1.91GHz | 1162 | 1644 | NA    | NA        |
| Intel Atom E3845 @ 1.91GHz | 1403 | 1509 | NA    | NA        |
| Intel Atom E3950 @ 1.60GHz | 1980 | 1252 | NA    | NA        |
| Intel Atom K510 @ 1.66GHz  | 658  | 1917 | NA    | NA        |
| Intel Atom N270 @ 1.60GHz  | 270  | 2280 | NA    | NA        |
| Intel Atom N280 @ 1.66GHz  | 288  | 2249 | NA    | NA        |

| Intel Atom N435 @ 1.33GHz     | 236                                     | 2319                      | NA                              | NA             |
|-------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Atom N450 @ 1.66GHz     | 296                                     | 2238                      | NA                              | NA             |
| Intel Atom N455 @ 1.66GHz     | 287                                     | 2255                      | NA                              | NA             |
| Intel Atom N470 @ 1.83GHz     | 307                                     | 2217                      | NA                              | NA             |
| Intel Atom N475 @ 1.83GHz     | 314                                     | 2207                      | NA                              | NA             |
| Intel Atom N550 @ 1.50GHz     | 514                                     | 1995                      | 5.99                            | \$86.00*       |
| CPU Name                      | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Atom N570 @ 1.66GHz     | 579                                     | 1957                      | 6.74                            | \$86.00*       |
| Intel Atom N2100 @ 1.60GHz    | 321                                     | 2199                      | NA                              | NA             |
| Intel Atom N2600 @ 1.60GHz    | 525                                     | 1986                      | NA                              | NA             |
| Intel Atom N2800 @ 1.86GHz    | 619                                     | 1935                      | NA                              | NA             |
| Intel Atom S1260 @ 2.00GHz    | 916                                     | 1794                      | 14.32                           | \$64.00*       |
| Intel Atom x5-E8000 @ 1.04GHz | 1595                                    | 1430                      | NA                              | NA             |
| Intel Atom x5-Z8300 @ 1.44GHz | 1200                                    | 1624                      | 6.17                            | \$194.50*      |
| Intel Atom x5-Z8330 @ 1.44GHz | 909                                     | 1800                      | NA                              | NA             |
| Intel Atom x5-Z8500 @ 1.44GHz | 1697                                    | 1377                      | 23.25                           | \$73.00*       |
| Intel Atom x5-Z8550 @ 1.44GHz | 1926                                    | 1271                      | NA                              | NA             |
| Intel Atom x7-Z8700 @ 1.60GHz | 1932                                    | 1270                      | 23.29                           | \$83.00        |
| Intel Atom Z510 @ 1.10GHz     | 194                                     | 2356                      | 4.33                            | \$45.00*       |
| Intel Atom Z515 @ 1.20GHz     | 218                                     | 2336                      | NA                              | NA             |
| Intel Atom Z520 @ 1.33GHz     | 215                                     | 2338                      | NA                              | NA             |
| Intel Atom Z530 @ 1.60GHz     | 281                                     | 2265                      | NA                              | NA             |
| Intel Atom Z540 @ 1.86GHz     | 348                                     | 2174                      | NA                              | NA             |
| Intel Atom Z550 @ 2.00GHz     | 381                                     | 2132                      | NA                              | NA             |
| Intel Atom Z670 @ 1.50GHz     | 249                                     | 2306                      | NA                              | NA             |
| Intel Atom Z2760 @ 1.80GHz    | 568                                     | 1965                      | NA                              | NA             |

|                             |      |      |              |                  |
|-----------------------------|------|------|--------------|------------------|
| Intel Atom Z3735D @ 1.33GHz | 917  | 1792 | NA           | NA               |
| Intel Atom Z3735E @ 1.33GHz | 929  | 1785 | <b>7.94</b>  | <b>\$117.00*</b> |
| Intel Atom Z3735F @ 1.33GHz | 909  | 1802 | <b>9.58</b>  | <b>\$94.95</b>   |
| Intel Atom Z3735G @ 1.33GHz | 912  | 1799 | NA           | NA               |
| Intel Atom Z3736F @ 1.33GHz | 914  | 1795 | NA           | NA               |
| Intel Atom Z3740 @ 1.33GHz  | 1060 | 1701 | NA           | NA               |
| Intel Atom Z3740D @ 1.33GHz | 1026 | 1716 | NA           | NA               |
| Intel Atom Z3745 @ 1.33GHz  | 1071 | 1695 | NA           | NA               |
| Intel Atom Z3745D @ 1.33GHz | 1082 | 1689 | NA           | NA               |
| Intel Atom Z3770 @ 1.46GHz  | 1238 | 1604 | <b>11.95</b> | <b>\$103.66</b>  |
| Intel Atom Z3770D @ 1.49GHz | 805  | 1851 | NA           | NA               |
| Intel Atom Z3775 @ 1.46GHz  | 1244 | 1603 | <b>35.56</b> | <b>\$35.00*</b>  |
| Intel Atom Z3775D @ 1.49GHz | 1296 | 1567 | NA           | NA               |
| Intel Atom Z3795 @ 1.60GHz  | 1765 | 1341 | NA           | NA               |
| Intel Celeron 1.70GHz       | 130  | 2393 | NA           | NA               |
| Intel Celeron 1.80GHz       | 137  | 2390 | NA           | NA               |
| Intel Celeron 2.00GHz       | 186  | 2366 | NA           | NA               |
| Intel Celeron 2.10GHz       | 244  | 2312 | NA           | NA               |
| Intel Celeron 2.13GHz       | 211  | 2341 | NA           | NA               |
| Intel Celeron 2.20GHz       | 213  | 2340 | NA           | NA               |
| Intel Celeron 2.26GHz       | 224  | 2329 | NA           | NA               |
| Intel Celeron 2.30GHz       | 227  | 2327 | NA           | NA               |
| Intel Celeron 2.40GHz       | 218  | 2337 | NA           | NA               |
| Intel Celeron 2.50GHz       | 253  | 2299 | NA           | NA               |
| Intel Celeron 2.53GHz       | 246  | 2308 | NA           | NA               |
| Intel Celeron 2.60GHz       | 242  | 2314 | NA           | NA               |
| Intel Celeron 2.66GHz       | 251  | 2303 | NA           | NA               |

| Intel Celeron 2.70GHz         | 245                                     | 2311                      | NA                              | NA             |
|-------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Celeron 2.80GHz         | 256                                     | 2296                      | NA                              | NA             |
| Intel Celeron 2.93GHz         | 285                                     | 2257                      | NA                              | NA             |
| CPU Name                      | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Celeron 3.06GHz         | 287                                     | 2254                      | NA                              | NA             |
| Intel Celeron 3.20GHz         | 289                                     | 2247                      | NA                              | NA             |
| Intel Celeron 3.33GHz         | 333                                     | 2190                      | NA                              | NA             |
| Intel Celeron 215 @ 1.33GHz   | 349                                     | 2172                      | NA                              | NA             |
| Intel Celeron 220 @ 1.20GHz   | 320                                     | 2202                      | NA                              | NA             |
| Intel Celeron 420 @ 1.60GHz   | 454                                     | 2050                      | 13.36                           | \$34.00        |
| Intel Celeron 430 @ 1.80GHz   | 490                                     | 2016                      | 9.80                            | \$50.00        |
| Intel Celeron 440 @ 2.00GHz   | 540                                     | 1978                      | 13.51                           | \$40.00        |
| Intel Celeron 450 @ 2.20GHz   | 623                                     | 1933                      | NA                              | NA             |
| Intel Celeron 530 @ 1.73GHz   | 481                                     | 2025                      | 20.96                           | \$23.00        |
| Intel Celeron 540 @ 1.86GHz   | 507                                     | 2001                      | NA                              | NA             |
| Intel Celeron 550 @ 2.00GHz   | 501                                     | 2005                      | 38.57                           | \$13.00*       |
| Intel Celeron 560 @ 2.13GHz   | 528                                     | 1985                      | 6.62                            | \$79.95*       |
| Intel Celeron 570 @ 2.26GHz   | 557                                     | 1967                      | NA                              | NA             |
| Intel Celeron 600MHz          | 147                                     | 2388                      | NA                              | NA             |
| Intel Celeron 723 @ 1.20GHz   | 404                                     | 2098                      | NA                              | NA             |
| Intel Celeron 743 @ 1.30GHz   | 412                                     | 2092                      | NA                              | NA             |
| Intel Celeron 807 @ 1.50GHz   | 751                                     | 1874                      | NA                              | NA             |
| Intel Celeron 807UE @ 1.00GHz | 369                                     | 2148                      | NA                              | NA             |
| Intel Celeron 827E @ 1.40GHz  | 613                                     | 1941                      | NA                              | NA             |
| Intel Celeron 847 @ 1.10GHz   | 938                                     | 1779                      | 2.98                            | \$315.00*      |
| Intel Celeron 847E @ 1.10GHz  | 1015                                    | 1726                      | NA                              | NA             |

|                                |      |      |       |           |
|--------------------------------|------|------|-------|-----------|
| Intel Celeron 857 @ 1.20GHz    | 1170 | 1640 | NA    | NA        |
| Intel Celeron 867 @ 1.30GHz    | 1199 | 1625 | NA    | NA        |
| Intel Celeron 877 @ 1.40GHz    | 1308 | 1558 | NA    | NA        |
| Intel Celeron 887 @ 1.50GHz    | 1317 | 1551 | NA    | NA        |
| Intel Celeron 900 @ 2.20GHz    | 680  | 1909 | 27.46 | \$24.80   |
| Intel Celeron 925 @ 2.30GHz    | 679  | 1910 | NA    | NA        |
| Intel Celeron 1000M @ 1.80GHz  | 1662 | 1401 | NA    | NA        |
| Intel Celeron 1000MHz          | 241  | 2315 | NA    | NA        |
| Intel Celeron 1005M @ 1.90GHz  | 1851 | 1309 | NA    | NA        |
| Intel Celeron 1007U @ 1.50GHz  | 1406 | 1508 | 7.61  | \$184.99* |
| Intel Celeron 1017U @ 1.60GHz  | 1588 | 1434 | NA    | NA        |
| Intel Celeron 1019Y @ 1.00GHz  | 972  | 1753 | NA    | NA        |
| Intel Celeron 1020E @ 2.20GHz  | 2232 | 1161 | NA    | NA        |
| Intel Celeron 1037U @ 1.80GHz  | 1742 | 1354 | NA    | NA        |
| Intel Celeron 1047UE @ 1.40GHz | 1188 | 1631 | NA    | NA        |
| Intel Celeron 1066MHz          | 259  | 2291 | NA    | NA        |
| Intel Celeron 1100MHz          | 174  | 2375 | NA    | NA        |
| Intel Celeron 1133MHz          | 282  | 2260 | NA    | NA        |
| Intel Celeron 1200MHz          | 244  | 2313 | NA    | NA        |
| Intel Celeron 1300MHz          | 288  | 2251 | NA    | NA        |
| Intel Celeron 1333MHz          | 290  | 2243 | NA    | NA        |
| Intel Celeron 1400MHz          | 302  | 2229 | NA    | NA        |
| Intel Celeron 2950M @ 2.00GHz  | 2027 | 1236 | NA    | NA        |
| Intel Celeron 2955U @ 1.40GHz  | 1459 | 1487 | NA    | NA        |
| Intel Celeron 2957U @ 1.40GHz  | 1472 | 1477 | NA    | NA        |
| Intel Celeron 2961Y @ 1.10GHz  | 1070 | 1697 | NA    | NA        |
| Intel Celeron 2970M @ 2.20GHz  | 2305 | 1125 | NA    | NA        |

| CPU Name                      | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
|-------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Celeron 2980U @ 1.60GHz | 1563                                    | 1444                      | NA                              | NA             |
| Intel Celeron 2981U @ 1.60GHz | 1480                                    | 1475                      | NA                              | NA             |
| Intel Celeron 3205U @ 1.50GHz | 1687                                    | 1386                      | NA                              | NA             |
| Intel Celeron 3215U @ 1.70GHz | 1827                                    | 1317                      | NA                              | NA             |
| Intel Celeron 3755U @ 1.70GHz | 1702                                    | 1375                      | NA                              | NA             |
| Intel Celeron 3765U @ 1.90GHz | 2110                                    | 1207                      | NA                              | NA             |
| Intel Celeron 3855U @ 1.60GHz | 1681                                    | 1391                      | NA                              | NA             |
| Intel Celeron 3955U @ 2.00GHz | 1942                                    | 1264                      | NA                              | NA             |
| Intel Celeron @ 1.30GHz       | 965                                     | 1760                      | NA                              | NA             |
| Intel Celeron B710 @ 1.60GHz  | 186                                     | 2364                      | NA                              | NA             |
| Intel Celeron B720 @ 1.70GHz  | 814                                     | 1848                      | NA                              | NA             |
| Intel Celeron B800 @ 1.50GHz  | 1296                                    | 1568                      | NA                              | NA             |
| Intel Celeron B810 @ 1.60GHz  | 1346                                    | 1539                      | NA                              | NA             |
| Intel Celeron B815 @ 1.60GHz  | 1351                                    | 1536                      | NA                              | NA             |
| Intel Celeron B820 @ 1.70GHz  | 1438                                    | 1494                      | NA                              | NA             |
| Intel Celeron B830 @ 1.80GHz  | 1525                                    | 1456                      | NA                              | NA             |
| Intel Celeron B840 @ 1.90GHz  | 1766                                    | 1340                      | NA                              | NA             |
| Intel Celeron D 347 @ 3.06GHz | 278                                     | 2270                      | NA                              | NA             |
| Intel Celeron D 352 @ 3.20GHz | 306                                     | 2220                      | NA                              | NA             |
| Intel Celeron D 356 @ 3.33GHz | 316                                     | 2205                      | NA                              | NA             |
| Intel Celeron D 360 @ 3.46GHz | 334                                     | 2189                      | NA                              | NA             |
| Intel Celeron D 365 @ 3.60GHz | 404                                     | 2100                      | 4.50                            | \$89.95*       |
| Intel Celeron D 420 @ 1.60GHz | 481                                     | 2026                      | NA                              | NA             |
| Intel Celeron D 430 @ 1.80GHz | 585                                     | 1953                      | NA                              | NA             |
| Intel Celeron E1200 @ 1.60GHz | 861                                     | 1823                      | 21.54                           | \$39.99        |

| Intel Celeron E1400 @ 2.00GHz  | 1052                                    | 1703                      | 18.47                           | \$57.01        |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Celeron E1500 @ 2.20GHz  | 1143                                    | 1656                      | 12.12                           | \$94.35        |
| Intel Celeron E1600 @ 2.40GHz  | 1260                                    | 1593                      | NA                              | NA             |
| Intel Celeron E3200 @ 2.40GHz  | 1379                                    | 1523                      | 26.54                           | \$51.99*       |
| Intel Celeron E3300 @ 2.50GHz  | 1396                                    | 1514                      | 12.26                           | \$113.90       |
| Intel Celeron E3400 @ 2.60GHz  | 1431                                    | 1497                      | 28.64                           | \$49.99        |
| Intel Celeron E3500 @ 2.70GHz  | 1422                                    | 1501                      | 22.93                           | \$62.01        |
| Intel Celeron G440 @ 1.60GHz   | 698                                     | 1900                      | 15.52                           | \$44.99        |
| Intel Celeron G460 @ 1.80GHz   | 1042                                    | 1707                      | 9.93                            | \$105.00       |
| Intel Celeron G465 @ 1.90GHz   | 1064                                    | 1700                      | 8.69                            | \$122.59       |
| Intel Celeron G470 @ 2.00GHz   | 1305                                    | 1561                      | NA                              | NA             |
| Intel Celeron G530 @ 2.40GHz   | 2146                                    | 1193                      | 42.94                           | \$49.99*       |
| Intel Celeron G530T @ 2.00GHz  | 1604                                    | 1422                      | NA                              | NA             |
| Intel Celeron G540 @ 2.50GHz   | 2240                                    | 1154                      | 11.20                           | \$200.00*      |
| Intel Celeron G540T @ 2.10GHz  | 2114                                    | 1203                      | NA                              | NA             |
| Intel Celeron G550 @ 2.60GHz   | 2314                                    | 1120                      | 17.59                           | \$131.59       |
| Intel Celeron G550T @ 2.20GHz  | 2100                                    | 1211                      | NA                              | NA             |
| Intel Celeron G555 @ 2.70GHz   | 2479                                    | 1070                      | 24.55                           | \$101.00*      |
| Intel Celeron G1101 @ 2.27GHz  | 1727                                    | 1359                      | 20.33                           | \$85.00*       |
| Intel Celeron G1610 @ 2.60GHz  | 2512                                    | 1055                      | 9.86                            | \$254.85       |
| Intel Celeron G1610T @ 2.30GHz | 2335                                    | 1112                      | 26.25                           | \$89.00*       |
| Intel Celeron G1620 @ 2.70GHz  | 2606                                    | 1029                      | 16.97                           | \$153.59       |
| Intel Celeron G1620T @ 2.40GHz | 2287                                    | 1134                      | 54.46                           | \$42.00*       |
| Intel Celeron G1630 @ 2.80GHz  | 2497                                    | 1065                      | 41.63                           | \$59.99        |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Celeron G1820 @ 2.70GHz  | 2787                                    | 979                       | 59.28                           | \$47.02        |

|                                 |      |      |       |          |
|---------------------------------|------|------|-------|----------|
| Intel Celeron G1820T @ 2.40GHz  | 2487 | 1067 | 59.23 | \$42.00* |
| Intel Celeron G1820TE @ 2.20GHz | 2230 | 1162 | NA    | NA       |
| Intel Celeron G1830 @ 2.80GHz   | 2611 | 1026 | 45.04 | \$57.99  |
| Intel Celeron G1840 @ 2.80GHz   | 3010 | 912  | 63.23 | \$47.62  |
| Intel Celeron G1840T @ 2.50GHz  | 2620 | 1022 | NA    | NA       |
| Intel Celeron G1850 @ 2.90GHz   | 2893 | 948  | 50.17 | \$57.67  |
| Intel Celeron G3900 @ 2.80GHz   | 3144 | 879  | 76.02 | \$41.37  |
| Intel Celeron G3900T @ 2.60GHz  | 2980 | 924  | NA    | NA       |
| Intel Celeron G3920 @ 2.90GHz   | 3643 | 747  | 81.48 | \$44.71  |
| Intel Celeron J1750 @ 2.41GHz   | 1037 | 1713 | NA    | NA       |
| Intel Celeron J1800 @ 2.41GHz   | 1026 | 1717 | NA    | NA       |
| Intel Celeron J1850 @ 1.99GHz   | 1614 | 1418 | NA    | NA       |
| Intel Celeron J1900 @ 1.99GHz   | 1879 | 1298 | NA    | NA       |
| Intel Celeron J3060 @ 1.60GHz   | 1068 | 1698 | NA    | NA       |
| Intel Celeron J3160 @ 1.60GHz   | 1848 | 1310 | NA    | NA       |
| Intel Celeron J3455 @ 1.50GHz   | 2099 | 1212 | NA    | NA       |
| Intel Celeron M 1.00GHz         | 207  | 2347 | 8.64  | \$23.99  |
| Intel Celeron M 1.30GHz         | 321  | 2201 | NA    | NA       |
| Intel Celeron M 1.50GHz         | 346  | 2175 | NA    | NA       |
| Intel Celeron M 1.60GHz         | 365  | 2155 | NA    | NA       |
| Intel Celeron M 1.70GHz         | 397  | 2116 | NA    | NA       |
| Intel Celeron M 360 1.40GHz     | 329  | 2192 | NA    | NA       |
| Intel Celeron M 410 @ 1.46GHz   | 335  | 2188 | NA    | NA       |
| Intel Celeron M 420 @ 1.60GHz   | 336  | 2186 | NA    | NA       |
| Intel Celeron M 430 @ 1.73GHz   | 373  | 2143 | NA    | NA       |
| Intel Celeron M 440 @ 1.86GHz   | 414  | 2089 | NA    | NA       |
| Intel Celeron M 443 @ 1.20GHz   | 253  | 2298 | NA    | NA       |

| Intel Celeron M 450 @ 2.00GHz | 455                                     | 2049                      | NA                              | NA             |
|-------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Celeron M 520 @ 1.60GHz | 431                                     | 2077                      | NA                              | NA             |
| Intel Celeron M 530 @ 1.73GHz | 450                                     | 2053                      | NA                              | NA             |
| Intel Celeron M 540 @ 1.86GHz | 542                                     | 1975                      | NA                              | NA             |
| Intel Celeron M 600MHz        | 151                                     | 2386                      | NA                              | NA             |
| Intel Celeron M 723 @ 1.20GHz | 456                                     | 2048                      | NA                              | NA             |
| Intel Celeron M 900MHz        | 205                                     | 2348                      | NA                              | NA             |
| Intel Celeron M 1200MHz       | 275                                     | 2275                      | NA                              | NA             |
| Intel Celeron M 1300MHz       | 303                                     | 2224                      | NA                              | NA             |
| Intel Celeron M 1500MHz       | 326                                     | 2194                      | NA                              | NA             |
| Intel Celeron M ULV 800MHz    | 184                                     | 2369                      | NA                              | NA             |
| Intel Celeron N2805 @ 1.46GHz | 449                                     | 2054                      | NA                              | NA             |
| Intel Celeron N2806 @ 1.60GHz | 772                                     | 1863                      | NA                              | NA             |
| Intel Celeron N2807 @ 1.58GHz | 845                                     | 1830                      | NA                              | NA             |
| Intel Celeron N2808 @ 1.58GHz | 955                                     | 1769                      | NA                              | NA             |
| Intel Celeron N2810 @ 2.00GHz | 806                                     | 1849                      | 2.99                            | \$269.43*      |
| Intel Celeron N2815 @ 1.86GHz | 867                                     | 1822                      | NA                              | NA             |
| Intel Celeron N2820 @ 2.13GHz | 973                                     | 1751                      | 4.89                            | \$199.00       |
| Intel Celeron N2830 @ 2.16GHz | 968                                     | 1758                      | NA                              | NA             |
| Intel Celeron N2840 @ 2.16GHz | 1019                                    | 1722                      | NA                              | NA             |
| Intel Celeron N2910 @ 1.60GHz | 1237                                    | 1605                      | NA                              | NA             |
| CPU Name                      | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Celeron N2920 @ 1.86GHz | 1519                                    | 1459                      | NA                              | NA             |
| Intel Celeron N2930 @ 1.83GHz | 1653                                    | 1406                      | NA                              | NA             |
| Intel Celeron N2940 @ 1.83GHz | 1763                                    | 1343                      | NA                              | NA             |
| Intel Celeron N3000 @ 1.04GHz | 917                                     | 1793                      | NA                              | NA             |

|                                 |      |      |       |           |
|---------------------------------|------|------|-------|-----------|
| Intel Celeron N3010 @ 1.04GHz   | 879  | 1812 | NA    | NA        |
| Intel Celeron N3050 @ 1.60GHz   | 892  | 1806 | 4.08  | \$219.00  |
| Intel Celeron N3060 @ 1.60GHz   | 947  | 1774 | NA    | NA        |
| Intel Celeron N3150 @ 1.60GHz   | 1690 | 1383 | NA    | NA        |
| Intel Celeron N3160 @ 1.60GHz   | 1580 | 1436 | NA    | NA        |
| Intel Celeron N3350 @ 1.10GHz   | 1205 | 1622 | NA    | NA        |
| Intel Celeron P4500 @ 1.87GHz   | 1177 | 1634 | NA    | NA        |
| Intel Celeron P4505 @ 1.87GHz   | 994  | 1741 | NA    | NA        |
| Intel Celeron P4600 @ 2.00GHz   | 1349 | 1538 | NA    | NA        |
| Intel Celeron SU2300 @ 1.20GHz  | 782  | 1858 | NA    | NA        |
| Intel Celeron T1600 @ 1.66GHz   | 923  | 1789 | 46.17 | \$19.99*  |
| Intel Celeron T1700 @ 1.83GHz   | 1058 | 1702 | NA    | NA        |
| Intel Celeron U1900 @ 1.99GHz   | 1704 | 1371 | NA    | NA        |
| Intel Celeron U3400 @ 1.07GHz   | 727  | 1883 | NA    | NA        |
| Intel Celeron U3405 @ 1.07GHz   | 684  | 1904 | NA    | NA        |
| Intel Celeron U3600 @ 1.20GHz   | 777  | 1860 | NA    | NA        |
| Intel Core2 Duo E4300 @ 1.80GHz | 1051 | 1704 | 5.48  | \$192.01  |
| Intel Core2 Duo E4400 @ 2.00GHz | 1155 | 1647 | 10.70 | \$108.00* |
| Intel Core2 Duo E4500 @ 2.20GHz | 1277 | 1582 | 36.52 | \$34.99*  |
| Intel Core2 Duo E4600 @ 2.40GHz | 1393 | 1515 | 34.85 | \$39.99   |
| Intel Core2 Duo E4700 @ 2.60GHz | 1487 | 1473 | 14.87 | \$100.00* |
| Intel Core2 Duo E6300 @ 1.86GHz | 1116 | 1664 | 23.77 | \$46.99   |
| Intel Core2 Duo E6320 @ 1.86GHz | 1189 | 1630 | NA    | NA        |
| Intel Core2 Duo E6400 @ 2.13GHz | 1296 | 1571 | 19.71 | \$65.76*  |
| Intel Core2 Duo E6420 @ 2.13GHz | 1373 | 1526 | NA    | NA        |
| Intel Core2 Duo E6540 @ 2.33GHz | 1464 | 1484 | NA    | NA        |
| Intel Core2 Duo E6550 @ 2.33GHz | 1502 | 1466 | 37.57 | \$40.00*  |

| Intel Core2 Duo E6600 @ 2.40GHz | 1559                                    | 1446                      | 23.65                           | \$65.94*       |
|---------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core2 Duo E6700 @ 2.66GHz | 1704                                    | 1373                      | 12.00                           | \$142.01       |
| Intel Core2 Duo E6750 @ 2.66GHz | 1723                                    | 1362                      | 39.67                           | \$43.46*       |
| Intel Core2 Duo E6850 @ 3.00GHz | 1958                                    | 1258                      | 29.90                           | \$65.50        |
| Intel Core2 Duo E7200 @ 2.53GHz | 1639                                    | 1410                      | 8.63                            | \$189.95*      |
| Intel Core2 Duo E7300 @ 2.66GHz | 1732                                    | 1356                      | NA                              | NA             |
| Intel Core2 Duo E7400 @ 2.80GHz | 1779                                    | 1338                      | 71.19                           | \$24.99*       |
| Intel Core2 Duo E7500 @ 2.93GHz | 1879                                    | 1297                      | 75.19                           | \$25.00        |
| Intel Core2 Duo E7600 @ 3.06GHz | 2018                                    | 1241                      | 13.46                           | \$149.95*      |
| Intel Core2 Duo E8135 @ 2.40GHz | 1681                                    | 1390                      | NA                              | NA             |
| Intel Core2 Duo E8135 @ 2.66GHz | 1765                                    | 1342                      | NA                              | NA             |
| Intel Core2 Duo E8200 @ 2.66GHz | 1890                                    | 1286                      | NA                              | NA             |
| Intel Core2 Duo E8235 @ 2.80GHz | 1949                                    | 1263                      | NA                              | NA             |
| Intel Core2 Duo E8290 @ 2.83GHz | 2353                                    | 1106                      | NA                              | NA             |
| Intel Core2 Duo E8300 @ 2.83GHz | 2006                                    | 1245                      | 50.17                           | \$39.99*       |
| Intel Core2 Duo E8335 @ 2.66GHz | 1794                                    | 1333                      | NA                              | NA             |
| Intel Core2 Duo E8335 @ 2.93GHz | 2156                                    | 1188                      | NA                              | NA             |
| Intel Core2 Duo E8400 @ 3.00GHz | 2170                                    | 1184                      | 111.33                          | \$19.50        |
| CPU Name                        | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core2 Duo E8435 @ 3.06GHz | 2149                                    | 1192                      | NA                              | NA             |
| Intel Core2 Duo E8500 @ 3.16GHz | 2302                                    | 1128                      | 93.42                           | \$24.65        |
| Intel Core2 Duo E8600 @ 3.33GHz | 2422                                    | 1087                      | 71.25                           | \$34.00        |
| Intel Core2 Duo E8700 @ 3.50GHz | 2212                                    | 1172                      | NA                              | NA             |
| Intel Core2 Duo L7100 @ 1.20GHz | 727                                     | 1882                      | NA                              | NA             |
| Intel Core2 Duo L7200 @ 1.33GHz | 684                                     | 1905                      | NA                              | NA             |
| Intel Core2 Duo L7300 @ 1.40GHz | 841                                     | 1834                      | NA                              | NA             |

|                                  |      |      |              |                  |
|----------------------------------|------|------|--------------|------------------|
| Intel Core2 Duo L7400 @ 1.50GHz  | 846  | 1829 | NA           | NA               |
| Intel Core2 Duo L7500 @ 1.60GHz  | 959  | 1766 | NA           | NA               |
| Intel Core2 Duo L7700 @ 1.80GHz  | 968  | 1757 | NA           | NA               |
| Intel Core2 Duo L7800 @ 2.00GHz  | 1116 | 1665 | NA           | NA               |
| Intel Core2 Duo L9300 @ 1.60GHz  | 1100 | 1671 | NA           | NA               |
| Intel Core2 Duo L9600 @ 2.13GHz  | 1413 | 1507 | NA           | NA               |
| Intel Core2 Duo P7350 @ 2.00GHz  | 1308 | 1559 | <b>65.44</b> | <b>\$19.99*</b>  |
| Intel Core2 Duo P7370 @ 2.00GHz  | 1311 | 1555 | NA           | NA               |
| Intel Core2 Duo P7450 @ 2.13GHz  | 1438 | 1495 | <b>35.97</b> | <b>\$39.99*</b>  |
| Intel Core2 Duo P7500 @ 1.60GHz  | 945  | 1775 | NA           | NA               |
| Intel Core2 Duo P7550 @ 2.26GHz  | 1522 | 1457 | <b>6.62</b>  | <b>\$229.99*</b> |
| Intel Core2 Duo P7570 @ 2.26GHz  | 1419 | 1502 | NA           | NA               |
| Intel Core2 Duo P7700 @ 1.80GHz  | 1021 | 1721 | NA           | NA               |
| Intel Core2 Duo P8400 @ 2.26GHz  | 1466 | 1481 | <b>1.47</b>  | <b>\$998.99*</b> |
| Intel Core2 Duo P8600 @ 2.40GHz  | 1548 | 1450 | <b>32.28</b> | <b>\$47.99*</b>  |
| Intel Core2 Duo P8700 @ 2.53GHz  | 1639 | 1409 | <b>43.16</b> | <b>\$37.99*</b>  |
| Intel Core2 Duo P8800 @ 2.66GHz  | 1757 | 1345 | <b>30.84</b> | <b>\$56.99*</b>  |
| Intel Core2 Duo P9300 @ 2.26GHz  | 1587 | 1435 | NA           | NA               |
| Intel Core2 Duo P9500 @ 2.53GHz  | 1800 | 1328 | <b>1.80</b>  | <b>\$998.99</b>  |
| Intel Core2 Duo P9600 @ 2.53GHz  | 1786 | 1335 | <b>18.05</b> | <b>\$99.00*</b>  |
| Intel Core2 Duo P9600 @ 2.66GHz  | 1886 | 1290 | NA           | NA               |
| Intel Core2 Duo P9700 @ 2.80GHz  | 2026 | 1237 | NA           | NA               |
| Intel Core2 Duo Q6867 @ 3.00GHz  | 589  | 1950 | NA           | NA               |
| Intel Core2 Duo SL9400 @ 1.86GHz | 1284 | 1578 | <b>5.08</b>  | <b>\$253.00*</b> |
| Intel Core2 Duo SP9400 @ 2.40GHz | 1680 | 1392 | <b>5.92</b>  | <b>\$284.00*</b> |
| Intel Core2 Duo SU9400 @ 1.40GHz | 937  | 1780 | NA           | NA               |
| Intel Core2 Duo T5200 @ 1.60GHz  | 837  | 1838 | NA           | NA               |

| Intel Core2 Duo T5250 @ 1.50GHz | 836                                     | 1841                      | NA                              | NA             |
|---------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core2 Duo T5270 @ 1.40GHz | 826                                     | 1846                      | NA                              | NA             |
| Intel Core2 Duo T5300 @ 1.73GHz | 935                                     | 1782                      | NA                              | NA             |
| Intel Core2 Duo T5450 @ 1.66GHz | 909                                     | 1801                      | NA                              | NA             |
| Intel Core2 Duo T5470 @ 1.60GHz | 918                                     | 1790                      | NA                              | NA             |
| Intel Core2 Duo T5500 @ 1.66GHz | 924                                     | 1787                      | NA                              | NA             |
| Intel Core2 Duo T5550 @ 1.83GHz | 1041                                    | 1709                      | NA                              | NA             |
| Intel Core2 Duo T5600 @ 1.83GHz | 1025                                    | 1718                      | NA                              | NA             |
| Intel Core2 Duo T5670 @ 1.80GHz | 1011                                    | 1727                      | NA                              | NA             |
| Intel Core2 Duo T5750 @ 2.00GHz | 1090                                    | 1683                      | 21.81                           | \$49.99*       |
| Intel Core2 Duo T5800 @ 2.00GHz | 1113                                    | 1667                      | NA                              | NA             |
| Intel Core2 Duo T5850 @ 2.16GHz | 1195                                    | 1629                      | 239.52                          | \$4.99         |
| Intel Core2 Duo T5870 @ 2.00GHz | 1143                                    | 1655                      | NA                              | NA             |
| Intel Core2 Duo T5900 @ 2.20GHz | 1246                                    | 1601                      | NA                              | NA             |
| Intel Core2 Duo T6400 @ 2.00GHz | 1230                                    | 1612                      | 82.09                           | \$14.99*       |
| CPU Name                        | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core2 Duo T6500 @ 2.10GHz | 1293                                    | 1574                      | 86.28                           | \$14.99*       |
| Intel Core2 Duo T6570 @ 2.10GHz | 1265                                    | 1591                      | 32.86                           | \$38.50        |
| Intel Core2 Duo T6600 @ 2.20GHz | 1379                                    | 1524                      | 138.09                          | \$9.99*        |
| Intel Core2 Duo T6670 @ 2.20GHz | 1381                                    | 1521                      | NA                              | NA             |
| Intel Core2 Duo T7100 @ 1.80GHz | 1017                                    | 1723                      | 46.26                           | \$21.99*       |
| Intel Core2 Duo T7200 @ 2.00GHz | 1168                                    | 1642                      | 46.75                           | \$25.00        |
| Intel Core2 Duo T7250 @ 2.00GHz | 1119                                    | 1663                      | 5.55                            | \$201.48*      |
| Intel Core2 Duo T7300 @ 2.00GHz | 1198                                    | 1626                      | 38.66                           | \$30.99*       |
| Intel Core2 Duo T7400 @ 2.16GHz | 1259                                    | 1595                      | NA                              | NA             |
| Intel Core2 Duo T7500 @ 2.20GHz | 1273                                    | 1584                      | 29.62                           | \$42.99*       |

|                                     |      |      |              |                    |
|-------------------------------------|------|------|--------------|--------------------|
| Intel Core2 Duo T7600 @ 2.33GHz     | 1344 | 1541 | NA           | NA                 |
| Intel Core2 Duo T7700 @ 2.40GHz     | 1422 | 1500 | <b>30.27</b> | <b>\$46.99*</b>    |
| Intel Core2 Duo T7800 @ 2.60GHz     | 1624 | 1416 | <b>2.67</b>  | <b>\$607.99*</b>   |
| Intel Core2 Duo T8100 @ 2.10GHz     | 1296 | 1570 | <b>1.30</b>  | <b>\$999.99</b>    |
| Intel Core2 Duo T8300 @ 2.40GHz     | 1488 | 1472 | <b>6.96</b>  | <b>\$213.99*</b>   |
| Intel Core2 Duo T9300 @ 2.50GHz     | 1672 | 1397 | <b>28.84</b> | <b>\$57.99*</b>    |
| Intel Core2 Duo T9400 @ 2.53GHz     | 1749 | 1350 | <b>34.99</b> | <b>\$49.99*</b>    |
| Intel Core2 Duo T9500 @ 2.60GHz     | 1814 | 1320 | NA           | NA                 |
| Intel Core2 Duo T9550 @ 2.66GHz     | 1801 | 1325 | <b>6.03</b>  | <b>\$298.95*</b>   |
| Intel Core2 Duo T9600 @ 2.80GHz     | 1936 | 1267 | <b>29.80</b> | <b>\$64.99*</b>    |
| Intel Core2 Duo T9800 @ 2.93GHz     | 2030 | 1234 | <b>4.79</b>  | <b>\$423.89*</b>   |
| Intel Core2 Duo T9900 @ 3.06GHz     | 2198 | 1178 | <b>5.51</b>  | <b>\$398.95*</b>   |
| Intel Core2 Duo U7300 @ 1.30GHz     | 881  | 1810 | NA           | NA                 |
| Intel Core2 Duo U7500 @ 1.06GHz     | 579  | 1958 | NA           | NA                 |
| Intel Core2 Duo U7600 @ 1.20GHz     | 671  | 1912 | NA           | NA                 |
| Intel Core2 Duo U7700 @ 1.33GHz     | 711  | 1894 | NA           | NA                 |
| Intel Core2 Duo U9300 @ 1.20GHz     | 869  | 1820 | NA           | NA                 |
| Intel Core2 Duo U9600 @ 1.60GHz     | 1139 | 1658 | NA           | NA                 |
| Intel Core2 Duo X7360 @ 2.53GHz     | 1687 | 1385 | NA           | NA                 |
| Intel Core2 Extreme Q6800 @ 2.93GHz | 3644 | 746  | <b>3.24</b>  | <b>\$1,125.00*</b> |
| Intel Core2 Extreme Q6850 @ 3.00GHz | 3708 | 734  | <b>2.48</b>  | <b>\$1,495.95*</b> |
| Intel Core2 Extreme Q9300 @ 2.53GHz | 3552 | 766  | NA           | NA                 |
| Intel Core2 Extreme X6800 @ 2.93GHz | 1893 | 1282 | <b>7.18</b>  | <b>\$263.64*</b>   |
| Intel Core2 Extreme X7800 @ 2.60GHz | 1802 | 1324 | NA           | NA                 |
| Intel Core2 Extreme X7850 @ 2.80GHz | 1331 | 1548 | NA           | NA                 |
| Intel Core2 Extreme X7900 @ 2.80GHz | 1709 | 1368 | NA           | NA                 |
| Intel Core2 Extreme X9000 @ 2.80GHz | 1908 | 1277 | NA           | NA                 |

| Intel Core2 Extreme X9100 @ 3.06GHz | 2088                                    | 1216                      | 2.45                            | \$851.00*      |
|-------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core2 Extreme X9650 @ 3.00GHz | 4256                                    | 627                       | 4.22                            | \$1,008.95*    |
| Intel Core2 Extreme X9750 @ 3.16GHz | 4651                                    | 554                       | NA                              | NA             |
| Intel Core2 Extreme X9770 @ 3.20GHz | 4645                                    | 556                       | 2.89                            | \$1,608.95     |
| Intel Core2 Extreme X9775 @ 3.20GHz | 4646                                    | 555                       | 4.67                            | \$995.00*      |
| Intel Core2 Quad Q6600 @ 2.40GHz    | 2982                                    | 923                       | 14.92                           | \$199.95       |
| Intel Core2 Quad Q6700 @ 2.66GHz    | 3329                                    | 825                       | 12.71                           | \$262.01       |
| Intel Core2 Quad Q8200 @ 2.33GHz    | 2833                                    | 964                       | 17.18                           | \$164.99*      |
| Intel Core2 Quad Q8300 @ 2.50GHz    | 3019                                    | 909                       | 13.98                           | \$216.01       |
| Intel Core2 Quad Q8400 @ 2.66GHz    | 3219                                    | 853                       | 58.53                           | \$55.00*       |
| Intel Core2 Quad Q9000 @ 2.00GHz    | 2544                                    | 1049                      | 6.54                            | \$389.00*      |
| Intel Core2 Quad Q9100 @ 2.26GHz    | 3230                                    | 849                       | 8.37                            | \$385.89*      |
| CPU Name                            | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core2 Quad Q9300 @ 2.50GHz    | 3186                                    | 863                       | 31.55                           | \$101.00       |
| Intel Core2 Quad Q9400 @ 2.66GHz    | 3407                                    | 811                       | 34.42                           | \$99.00        |
| Intel Core2 Quad Q9450 @ 2.66GHz    | 3803                                    | 713                       | 11.35                           | \$335.25*      |
| Intel Core2 Quad Q9500 @ 2.83GHz    | 3654                                    | 743                       | 24.36                           | \$149.99*      |
| Intel Core2 Quad Q9505 @ 2.83GHz    | 3633                                    | 750                       | 14.69                           | \$247.23*      |
| Intel Core2 Quad Q9550 @ 2.83GHz    | 4032                                    | 662                       | 41.15                           | \$98.00        |
| Intel Core2 Quad Q9650 @ 3.00GHz    | 4265                                    | 624                       | 15.24                           | \$279.95       |
| Intel Core2 Quad Q9705 @ 3.16GHz    | 3947                                    | 676                       | NA                              | NA             |
| Intel Core2 Solo U2100 @ 1.06GHz    | 303                                     | 2223                      | NA                              | NA             |
| Intel Core2 Solo U2200 @ 1.20GHz    | 311                                     | 2212                      | NA                              | NA             |
| Intel Core2 Solo U3300 @ 1.20GHz    | 415                                     | 2085                      | NA                              | NA             |
| Intel Core2 Solo U3500 @ 1.40GHz    | 474                                     | 2033                      | NA                              | NA             |
| Intel Core 330 @ 1.60GHz            | 643                                     | 1924                      | NA                              | NA             |

|                                |      |      |       |           |
|--------------------------------|------|------|-------|-----------|
| Intel Core 860 @ 2.80GHz       | 4550 | 574  | 14.73 | \$309.00  |
| Intel Core Duo L2300 @ 1.50GHz | 719  | 1886 | NA    | NA        |
| Intel Core Duo L2400 @ 1.66GHz | 705  | 1895 | NA    | NA        |
| Intel Core Duo L2500 @ 1.83GHz | 728  | 1881 | NA    | NA        |
| Intel Core Duo T2050 @ 1.60GHz | 704  | 1897 | NA    | NA        |
| Intel Core Duo T2250 @ 1.73GHz | 767  | 1866 | NA    | NA        |
| Intel Core Duo T2300 @ 1.66GHz | 736  | 1878 | NA    | NA        |
| Intel Core Duo T2350 @ 1.86GHz | 774  | 1861 | NA    | NA        |
| Intel Core Duo T2400 @ 1.83GHz | 798  | 1854 | 49.91 | \$16.00*  |
| Intel Core Duo T2450 @ 2.00GHz | 841  | 1833 | NA    | NA        |
| Intel Core Duo T2500 @ 2.00GHz | 877  | 1813 | 7.31  | \$119.99* |
| Intel Core Duo T2600 @ 2.16GHz | 941  | 1777 | NA    | NA        |
| Intel Core Duo T2700 @ 2.33GHz | 1024 | 1719 | NA    | NA        |
| Intel Core Duo U2400 @ 1.06GHz | 544  | 1974 | NA    | NA        |
| Intel Core Duo U2500 @ 1.20GHz | 512  | 1997 | NA    | NA        |
| Intel Core i3-330E @ 2.13GHz   | 1935 | 1268 | NA    | NA        |
| Intel Core i3-330M @ 2.13GHz   | 1800 | 1327 | 16.53 | \$108.95* |
| Intel Core i3-330UM @ 1.20GHz  | 1071 | 1696 | NA    | NA        |
| Intel Core i3-350M @ 2.27GHz   | 1900 | 1280 | 56.34 | \$33.74   |
| Intel Core i3-370M @ 2.40GHz   | 2027 | 1235 | 37.56 | \$53.99*  |
| Intel Core i3-380M @ 2.53GHz   | 2112 | 1205 | 47.74 | \$44.25   |
| Intel Core i3-380UM @ 1.33GHz  | 1170 | 1641 | NA    | NA        |
| Intel Core i3-390M @ 2.67GHz   | 2207 | 1174 | 56.68 | \$38.95*  |
| Intel Core i3-530 @ 2.93GHz    | 2589 | 1035 | 47.08 | \$55.00   |
| Intel Core i3-540 @ 3.07GHz    | 2697 | 1002 | 45.00 | \$59.95   |
| Intel Core i3-550 @ 3.20GHz    | 2841 | 960  | 14.21 | \$199.95  |
| Intel Core i3-560 @ 3.33GHz    | 2992 | 921  | 15.76 | \$189.95  |

| Intel Core i3-2100 @ 3.10GHz   | 3645                                    | 745                       | 24.88                           | \$146.50       |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i3-2100T @ 2.50GHz  | 2864                                    | 956                       | 15.89                           | \$180.30*      |
| Intel Core i3-2102 @ 3.10GHz   | 3817                                    | 708                       | NA                              | NA             |
| Intel Core i3-2105 @ 3.10GHz   | 3700                                    | 735                       | 23.44                           | \$157.90       |
| Intel Core i3-2120 @ 3.30GHz   | 3879                                    | 694                       | 40.84                           | \$95.00        |
| Intel Core i3-2120T @ 2.60GHz  | 3171                                    | 870                       | 21.29                           | \$149.00       |
| Intel Core i3-2125 @ 3.30GHz   | 3986                                    | 671                       | 16.61                           | \$239.95       |
| Intel Core i3-2130 @ 3.40GHz   | 4059                                    | 658                       | 19.42                           | \$209.00       |
| Intel Core i3-2140 @ 3.50GHz   | 4325                                    | 611                       | NA                              | NA             |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core i3-2310E @ 2.10GHz  | 2839                                    | 962                       | 12.62                           | \$225.00*      |
| Intel Core i3-2310M @ 2.10GHz  | 2417                                    | 1089                      | 32.26                           | \$74.95*       |
| Intel Core i3-2312M @ 2.10GHz  | 2305                                    | 1123                      | NA                              | NA             |
| Intel Core i3-2328M @ 2.20GHz  | 2505                                    | 1060                      | NA                              | NA             |
| Intel Core i3-2330E @ 2.20GHz  | 3004                                    | 916                       | NA                              | NA             |
| Intel Core i3-2330M @ 2.20GHz  | 2526                                    | 1051                      | 38.29                           | \$65.99        |
| Intel Core i3-2332M @ 2.20GHz  | 2382                                    | 1099                      | NA                              | NA             |
| Intel Core i3-2340UE @ 1.30GHz | 1719                                    | 1365                      | NA                              | NA             |
| Intel Core i3-2348M @ 2.30GHz  | 2601                                    | 1030                      | NA                              | NA             |
| Intel Core i3-2350M @ 2.30GHz  | 2612                                    | 1025                      | 62.25                           | \$41.96        |
| Intel Core i3-2357M @ 1.30GHz  | 1573                                    | 1442                      | NA                              | NA             |
| Intel Core i3-2365M @ 1.40GHz  | 1678                                    | 1394                      | NA                              | NA             |
| Intel Core i3-2367M @ 1.40GHz  | 1693                                    | 1381                      | NA                              | NA             |
| Intel Core i3-2370M @ 2.40GHz  | 2744                                    | 992                       | 46.51                           | \$59.00*       |
| Intel Core i3-2375M @ 1.50GHz  | 1742                                    | 1353                      | NA                              | NA             |
| Intel Core i3-2377M @ 1.50GHz  | 1830                                    | 1316                      | NA                              | NA             |

|                                |      |      |       |           |
|--------------------------------|------|------|-------|-----------|
| Intel Core i3-3110M @ 2.40GHz  | 3052 | 898  | 32.13 | \$94.99   |
| Intel Core i3-3120M @ 2.50GHz  | 3215 | 855  | 20.10 | \$160.00  |
| Intel Core i3-3130M @ 2.60GHz  | 3355 | 820  | NA    | NA        |
| Intel Core i3-3210 @ 3.20GHz   | 3977 | 673  | 30.13 | \$132.00  |
| Intel Core i3-3217U @ 1.80GHz  | 2291 | 1132 | 6.60  | \$347.12* |
| Intel Core i3-3217UE @ 1.60GHz | 2162 | 1187 | NA    | NA        |
| Intel Core i3-3220 @ 3.30GHz   | 4212 | 634  | 44.37 | \$94.95   |
| Intel Core i3-3220T @ 2.80GHz  | 3695 | 736  | 20.53 | \$179.99  |
| Intel Core i3-3225 @ 3.30GHz   | 4326 | 610  | 15.97 | \$270.91  |
| Intel Core i3-3227U @ 1.90GHz  | 2456 | 1076 | NA    | NA        |
| Intel Core i3-3229Y @ 1.40GHz  | 1676 | 1395 | NA    | NA        |
| Intel Core i3-3240 @ 3.40GHz   | 4294 | 618  | 29.21 | \$147.00  |
| Intel Core i3-3240T @ 2.90GHz  | 3692 | 739  | NA    | NA        |
| Intel Core i3-3245 @ 3.40GHz   | 4304 | 616  | 33.37 | \$128.99  |
| Intel Core i3-3250 @ 3.50GHz   | 4406 | 594  | 13.53 | \$325.65  |
| Intel Core i3-3250T @ 3.00GHz  | 3021 | 907  | NA    | NA        |
| Intel Core i3-4000M @ 2.40GHz  | 3230 | 848  | 12.48 | \$258.84  |
| Intel Core i3-4005U @ 1.70GHz  | 2450 | 1079 | NA    | NA        |
| Intel Core i3-4010U @ 1.70GHz  | 2438 | 1081 | 7.87  | \$309.99  |
| Intel Core i3-4010Y @ 1.30GHz  | 1847 | 1311 | NA    | NA        |
| Intel Core i3-4012Y @ 1.50GHz  | 2207 | 1175 | NA    | NA        |
| Intel Core i3-4020Y @ 1.50GHz  | 2169 | 1185 | NA    | NA        |
| Intel Core i3-4025U @ 1.90GHz  | 2785 | 980  | NA    | NA        |
| Intel Core i3-4030U @ 1.90GHz  | 2687 | 1006 | NA    | NA        |
| Intel Core i3-4030Y @ 1.60GHz  | 2471 | 1072 | NA    | NA        |
| Intel Core i3-4100M @ 2.50GHz  | 3461 | 796  | 15.84 | \$218.57  |
| Intel Core i3-4110M @ 2.60GHz  | 3873 | 695  | NA    | NA        |

| Intel Core i3-4110U @ 1.90GHz  | 2902                                    | 947                       | NA                              | NA             |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i3-4120U @ 2.00GHz  | 3050                                    | 900                       | NA                              | NA             |
| Intel Core i3-4130 @ 3.40GHz   | 4764                                    | 534                       | 22.80                           | \$208.95       |
| Intel Core i3-4130T @ 2.90GHz  | 4102                                    | 653                       | 15.20                           | \$270.00       |
| Intel Core i3-4150 @ 3.50GHz   | 4892                                    | 518                       | 39.30                           | \$124.48       |
| Intel Core i3-4150T @ 3.00GHz  | 4172                                    | 642                       | 35.66                           | \$117.00*      |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core i3-4158U @ 2.00GHz  | 2914                                    | 940                       | NA                              | NA             |
| Intel Core i3-4160 @ 3.60GHz   | 5020                                    | 502                       | 41.84                           | \$119.99       |
| Intel Core i3-4160T @ 3.10GHz  | 4334                                    | 606                       | NA                              | NA             |
| Intel Core i3-4170 @ 3.70GHz   | 5135                                    | 490                       | 42.80                           | \$119.99       |
| Intel Core i3-4170T @ 3.20GHz  | 4468                                    | 588                       | 27.08                           | \$165.00*      |
| Intel Core i3-4330 @ 3.50GHz   | 5058                                    | 498                       | 31.15                           | \$162.42       |
| Intel Core i3-4330T @ 3.00GHz  | 4513                                    | 577                       | NA                              | NA             |
| Intel Core i3-4330TE @ 2.40GHz | 3251                                    | 843                       | NA                              | NA             |
| Intel Core i3-4340 @ 3.60GHz   | 5222                                    | 478                       | 30.54                           | \$170.99*      |
| Intel Core i3-4350 @ 3.60GHz   | 5297                                    | 470                       | 33.83                           | \$156.60       |
| Intel Core i3-4350T @ 3.10GHz  | 4117                                    | 650                       | NA                              | NA             |
| Intel Core i3-4360 @ 3.70GHz   | 5462                                    | 449                       | 34.92                           | \$156.41       |
| Intel Core i3-4360T @ 3.20GHz  | 4630                                    | 558                       | NA                              | NA             |
| Intel Core i3-4370 @ 3.80GHz   | 5550                                    | 439                       | 37.76                           | \$146.99       |
| Intel Core i3-4570T @ 2.90GHz  | 5094                                    | 493                       | NA                              | NA             |
| Intel Core i3-5005U @ 2.00GHz  | 2906                                    | 943                       | NA                              | NA             |
| Intel Core i3-5010U @ 2.10GHz  | 3063                                    | 895                       | 7.66                            | \$399.95       |
| Intel Core i3-5015U @ 2.10GHz  | 3104                                    | 886                       | NA                              | NA             |
| Intel Core i3-5020U @ 2.20GHz  | 3182                                    | 865                       | 6.93                            | \$459.00*      |

|                                |      |      |              |                  |
|--------------------------------|------|------|--------------|------------------|
| Intel Core i3-5157U @ 2.50GHz  | 3613 | 755  | NA           | NA               |
| Intel Core i3-6098P @ 3.60GHz  | 5728 | 419  | <b>44.68</b> | <b>\$128.22*</b> |
| Intel Core i3-6100 @ 3.70GHz   | 5408 | 459  | <b>51.51</b> | <b>\$104.99</b>  |
| Intel Core i3-6100E @ 2.70GHz  | 3694 | 737  | NA           | NA               |
| Intel Core i3-6100H @ 2.70GHz  | 3892 | 693  | NA           | NA               |
| Intel Core i3-6100T @ 3.20GHz  | 4738 | 541  | <b>37.61</b> | <b>\$126.00</b>  |
| Intel Core i3-6100TE @ 2.70GHz | 4296 | 617  | NA           | NA               |
| Intel Core i3-6100U @ 2.30GHz  | 3919 | 686  | <b>7.61</b>  | <b>\$515.00*</b> |
| Intel Core i3-6157U @ 2.40GHz  | 3819 | 707  | NA           | NA               |
| Intel Core i3-6300 @ 3.80GHz   | 5781 | 411  | <b>38.54</b> | <b>\$149.99</b>  |
| Intel Core i3-6300T @ 3.30GHz  | 5124 | 491  | <b>31.69</b> | <b>\$161.71</b>  |
| Intel Core i3-6320 @ 3.90GHz   | 6079 | 385  | <b>38.00</b> | <b>\$159.99</b>  |
| Intel Core i3-7100U @ 2.40GHz  | 3738 | 727  | NA           | NA               |
| Intel Core i5 750S @ 2.40GHz   | 2197 | 1179 | <b>8.72</b>  | <b>\$252.01</b>  |
| Intel Core i5 E 520 @ 2.40GHz  | 2486 | 1068 | NA           | NA               |
| Intel Core i5-7Y54 @ 1.20GHz   | 3174 | 868  | NA           | NA               |
| Intel Core i5-430M @ 2.27GHz   | 2111 | 1206 | <b>19.20</b> | <b>\$109.99*</b> |
| Intel Core i5-430UM @ 1.20GHz  | 1336 | 1546 | NA           | NA               |
| Intel Core i5-450M @ 2.40GHz   | 2130 | 1197 | <b>66.68</b> | <b>\$31.95*</b>  |
| Intel Core i5-460M @ 2.53GHz   | 2343 | 1110 | <b>29.31</b> | <b>\$79.95</b>   |
| Intel Core i5-470UM @ 1.33GHz  | 1278 | 1581 | NA           | NA               |
| Intel Core i5-480M @ 2.67GHz   | 2432 | 1082 | <b>62.45</b> | <b>\$38.95*</b>  |
| Intel Core i5-520 @ 2.40GHz    | 2244 | 1152 | NA           | NA               |
| Intel Core i5-520M @ 2.40GHz   | 2388 | 1097 | <b>39.81</b> | <b>\$60.00</b>   |
| Intel Core i5-520UM @ 1.07GHz  | 1403 | 1510 | NA           | NA               |
| Intel Core i5-540M @ 2.53GHz   | 2452 | 1078 | <b>12.91</b> | <b>\$189.95*</b> |
| Intel Core i5-540UM @ 1.20GHz  | 1384 | 1518 | NA           | NA               |

| Intel Core i5-560M @ 2.67GHz  | 2614                                    | 1023                      | 58.68                           | \$44.55        |
|-------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i5-560UM @ 1.33GHz | 1727                                    | 1360                      | NA                              | NA             |
| Intel Core i5-580M @ 2.67GHz  | 2668                                    | 1008                      | 29.66                           | \$89.96*       |
| CPU Name                      | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core i5-650 @ 3.20GHz   | 3131                                    | 880                       | 24.09                           | \$130.00       |
| Intel Core i5-655K @ 3.20GHz  | 3325                                    | 826                       | NA                              | NA             |
| Intel Core i5-660 @ 3.33GHz   | 3292                                    | 830                       | 11.51                           | \$285.95       |
| Intel Core i5-661 @ 3.33GHz   | 3204                                    | 858                       | 12.71                           | \$252.01       |
| Intel Core i5-670 @ 3.47GHz   | 3349                                    | 821                       | 20.30                           | \$165.00       |
| Intel Core i5-680 @ 3.60GHz   | 3533                                    | 774                       | 12.99                           | \$272.01       |
| Intel Core i5-750 @ 2.67GHz   | 3724                                    | 729                       | 19.92                           | \$186.95       |
| Intel Core i5-760 @ 2.80GHz   | 3915                                    | 688                       | 17.40                           | \$225.00       |
| Intel Core i5-2300 @ 2.80GHz  | 5282                                    | 472                       | 30.70                           | \$172.10*      |
| Intel Core i5-2310 @ 2.90GHz  | 5459                                    | 450                       | 35.32                           | \$154.58*      |
| Intel Core i5-2320 @ 3.00GHz  | 5687                                    | 425                       | 31.53                           | \$180.40       |
| Intel Core i5-2380P @ 3.10GHz | 5659                                    | 427                       | 26.71                           | \$211.91*      |
| Intel Core i5-2390T @ 2.70GHz | 4277                                    | 622                       | NA                              | NA             |
| Intel Core i5-2400 @ 3.10GHz  | 5855                                    | 403                       | 58.56                           | \$99.99        |
| Intel Core i5-2400S @ 2.50GHz | 4889                                    | 520                       | 14.38                           | \$339.95       |
| Intel Core i5-2405S @ 2.50GHz | 4910                                    | 513                       | 10.41                           | \$471.59*      |
| Intel Core i5-2410M @ 2.30GHz | 3154                                    | 878                       | 30.06                           | \$104.95*      |
| Intel Core i5-2415M @ 2.30GHz | 3313                                    | 827                       | NA                              | NA             |
| Intel Core i5-2430M @ 2.40GHz | 3274                                    | 838                       | 16.38                           | \$199.95*      |
| Intel Core i5-2435M @ 2.40GHz | 3275                                    | 837                       | NA                              | NA             |
| Intel Core i5-2450M @ 2.50GHz | 3400                                    | 813                       | 61.83                           | \$55.00        |
| Intel Core i5-2450P @ 3.20GHz | 6101                                    | 382                       | 28.38                           | \$214.99*      |

|                               |      |      |               |                  |
|-------------------------------|------|------|---------------|------------------|
| Intel Core i5-2467M @ 1.60GHz | 2327 | 1115 | NA            | NA               |
| Intel Core i5-2500 @ 3.30GHz  | 6232 | 370  | <b>34.59</b>  | <b>\$180.15</b>  |
| Intel Core i5-2500K @ 3.30GHz | 6442 | 357  | <b>23.09</b>  | <b>\$279.00</b>  |
| Intel Core i5-2500S @ 2.70GHz | 5205 | 480  | <b>20.82</b>  | <b>\$250.00*</b> |
| Intel Core i5-2500T @ 2.30GHz | 4595 | 566  | NA            | NA               |
| Intel Core i5-2510E @ 2.50GHz | 3614 | 753  | NA            | NA               |
| Intel Core i5-2515E @ 2.50GHz | 3313 | 828  | NA            | NA               |
| Intel Core i5-2520M @ 2.50GHz | 3550 | 767  | <b>13.61</b>  | <b>\$260.76*</b> |
| Intel Core i5-2537M @ 1.40GHz | 2125 | 1199 | NA            | NA               |
| Intel Core i5-2540M @ 2.60GHz | 3742 | 724  | <b>41.61</b>  | <b>\$89.96</b>   |
| Intel Core i5-2550K @ 3.40GHz | 6692 | 333  | <b>16.36</b>  | <b>\$409.00*</b> |
| Intel Core i5-2557M @ 1.70GHz | 2652 | 1010 | NA            | NA               |
| Intel Core i5-2560M @ 2.70GHz | 3752 | 722  | NA            | NA               |
| Intel Core i5-3210M @ 2.50GHz | 3789 | 716  | <b>18.49</b>  | <b>\$205.00*</b> |
| Intel Core i5-3230M @ 2.60GHz | 3913 | 690  | <b>15.29</b>  | <b>\$255.95*</b> |
| Intel Core i5-3317U @ 1.70GHz | 3085 | 889  | <b>13.71</b>  | <b>\$225.00*</b> |
| Intel Core i5-3320M @ 2.60GHz | 4020 | 665  | <b>42.49</b>  | <b>\$94.62</b>   |
| Intel Core i5-3330 @ 3.00GHz  | 5859 | 402  | <b>18.73</b>  | <b>\$312.82</b>  |
| Intel Core i5-3330S @ 2.70GHz | 5587 | 436  | <b>56.45</b>  | <b>\$98.98*</b>  |
| Intel Core i5-3335S @ 2.70GHz | 5768 | 415  | NA            | NA               |
| Intel Core i5-3337U @ 1.80GHz | 3205 | 856  | <b>14.25</b>  | <b>\$225.00*</b> |
| Intel Core i5-3339Y @ 1.50GHz | 2228 | 1165 | NA            | NA               |
| Intel Core i5-3340 @ 3.10GHz  | 6012 | 389  | <b>32.50</b>  | <b>\$185.00</b>  |
| Intel Core i5-3340M @ 2.70GHz | 4193 | 639  | <b>121.01</b> | <b>\$34.65*</b>  |
| Intel Core i5-3340S @ 2.80GHz | 5679 | 426  | <b>58.56</b>  | <b>\$96.99*</b>  |
| Intel Core i5-3350P @ 3.10GHz | 6085 | 384  | <b>27.41</b>  | <b>\$222.01</b>  |
| Intel Core i5-3360M @ 2.80GHz | 4359 | 603  | <b>21.15</b>  | <b>\$206.12</b>  |

| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i5-3380M @ 2.90GHz  | 4285                                    | 620                       | NA                              | NA             |
| Intel Core i5-3427U @ 1.80GHz  | 3518                                    | 776                       | 8.38                            | \$420.05*      |
| Intel Core i5-3437U @ 1.90GHz  | 3592                                    | 761                       | NA                              | NA             |
| Intel Core i5-3439Y @ 1.50GHz  | 2957                                    | 930                       | NA                              | NA             |
| Intel Core i5-3450 @ 3.10GHz   | 6450                                    | 355                       | 32.94                           | \$195.80       |
| Intel Core i5-3450S @ 2.80GHz  | 6085                                    | 383                       | 31.93                           | \$190.59*      |
| Intel Core i5-3470 @ 3.20GHz   | 6572                                    | 343                       | 30.30                           | \$216.95       |
| Intel Core i5-3470S @ 2.90GHz  | 6209                                    | 373                       | 32.69                           | \$189.99       |
| Intel Core i5-3470T @ 2.90GHz  | 4491                                    | 585                       | 19.24                           | \$233.48*      |
| Intel Core i5-3475S @ 2.90GHz  | 6362                                    | 365                       | 27.17                           | \$234.21*      |
| Intel Core i5-3550 @ 3.30GHz   | 6821                                    | 326                       | 16.52                           | \$412.95       |
| Intel Core i5-3550S @ 3.00GHz  | 6794                                    | 327                       | NA                              | NA             |
| Intel Core i5-3570 @ 3.40GHz   | 6990                                    | 317                       | 23.74                           | \$294.50       |
| Intel Core i5-3570K @ 3.40GHz  | 7128                                    | 304                       | 17.40                           | \$409.77       |
| Intel Core i5-3570S @ 3.10GHz  | 6564                                    | 347                       | 23.03                           | \$285.00       |
| Intel Core i5-3570T @ 2.30GHz  | 5838                                    | 406                       | NA                              | NA             |
| Intel Core i5-3610ME @ 2.70GHz | 3635                                    | 749                       | NA                              | NA             |
| Intel Core i5-4200H @ 2.80GHz  | 4398                                    | 595                       | NA                              | NA             |
| Intel Core i5-4200M @ 2.50GHz  | 4036                                    | 660                       | 22.43                           | \$179.99*      |
| Intel Core i5-4200U @ 1.60GHz  | 3257                                    | 842                       | NA                              | NA             |
| Intel Core i5-4200Y @ 1.40GHz  | 2352                                    | 1107                      | NA                              | NA             |
| Intel Core i5-4202Y @ 1.60GHz  | 2281                                    | 1138                      | NA                              | NA             |
| Intel Core i5-4210H @ 2.90GHz  | 4506                                    | 580                       | NA                              | NA             |
| Intel Core i5-4210M @ 2.60GHz  | 4202                                    | 637                       | 16.17                           | \$259.95       |
| Intel Core i5-4210U @ 1.70GHz  | 3375                                    | 816                       | NA                              | NA             |

| Intel Core i5-4210Y @ 1.50GHz | 2351                                    | 1108                      | NA                              | NA             |
|-------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i5-4220Y @ 1.60GHz | 2384                                    | 1098                      | NA                              | NA             |
| Intel Core i5-4250U @ 1.30GHz | 3448                                    | 799                       | 8.45                            | \$408.00       |
| Intel Core i5-4258U @ 2.40GHz | 4071                                    | 655                       | NA                              | NA             |
| Intel Core i5-4260U @ 1.40GHz | 3523                                    | 775                       | NA                              | NA             |
| Intel Core i5-4278U @ 2.60GHz | 4314                                    | 615                       | NA                              | NA             |
| Intel Core i5-4288U @ 2.60GHz | 4428                                    | 590                       | NA                              | NA             |
| Intel Core i5-4300M @ 2.60GHz | 4367                                    | 602                       | NA                              | NA             |
| Intel Core i5-4300U @ 1.90GHz | 3738                                    | 726                       | NA                              | NA             |
| Intel Core i5-4300Y @ 1.60GHz | 2546                                    | 1048                      | NA                              | NA             |
| Intel Core i5-4302Y @ 1.60GHz | 3013                                    | 911                       | NA                              | NA             |
| Intel Core i5-4308U @ 2.80GHz | 4358                                    | 604                       | NA                              | NA             |
| Intel Core i5-4310M @ 2.70GHz | 4500                                    | 582                       | NA                              | NA             |
| Intel Core i5-4310U @ 2.00GHz | 3689                                    | 740                       | NA                              | NA             |
| Intel Core i5-4330M @ 2.80GHz | 4505                                    | 581                       | 16.38                           | \$274.99*      |
| Intel Core i5-4340M @ 2.90GHz | 4764                                    | 535                       | NA                              | NA             |
| Intel Core i5-4350U @ 1.40GHz | 3610                                    | 756                       | NA                              | NA             |
| Intel Core i5-4400E @ 2.70GHz | 1271                                    | 1587                      | NA                              | NA             |
| Intel Core i5-4402E @ 1.60GHz | 3947                                    | 677                       | NA                              | NA             |
| Intel Core i5-4430 @ 3.00GHz  | 6240                                    | 369                       | 33.73                           | \$184.99       |
| Intel Core i5-4430S @ 2.70GHz | 5915                                    | 398                       | NA                              | NA             |
| Intel Core i5-4440 @ 3.10GHz  | 6410                                    | 361                       | 32.89                           | \$194.93       |
| Intel Core i5-4440S @ 2.80GHz | 6119                                    | 378                       | 33.08                           | \$184.99       |
| Intel Core i5-4460 @ 3.20GHz  | 6615                                    | 341                       | 35.76                           | \$184.99       |
| CPU Name                      | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core i5-4460S @ 2.90GHz | 6321                                    | 368                       | NA                              | NA             |

|                                   |      |      |       |           |
|-----------------------------------|------|------|-------|-----------|
| Intel Core i5-4460T @ 1.90GHz     | 4899 | 515  | NA    | NA        |
| Intel Core i5-4570 @ 3.20GHz      | 7010 | 314  | 35.05 | \$199.99  |
| Intel Core i5-4570R @ 2.70GHz     | 6554 | 348  | NA    | NA        |
| Intel Core i5-4570S @ 2.90GHz     | 6623 | 340  | 32.47 | \$204.00  |
| Intel Core i5-4570T @ 2.90GHz     | 4759 | 536  | 21.32 | \$223.23* |
| Intel Core i5-4570TE @ 2.70GHz    | 3433 | 805  | 14.35 | \$239.24  |
| Intel Core i5-4590 @ 3.30GHz      | 7176 | 300  | 35.88 | \$199.99  |
| Intel Core i5-4590S @ 3.00GHz     | 6917 | 321  | 32.97 | \$209.80  |
| Intel Core i5-4590T @ 2.00GHz     | 5472 | 448  | NA    | NA        |
| Intel Core i5-4670 @ 3.40GHz      | 7338 | 291  | 32.33 | \$226.99  |
| Intel Core i5-4670K @ 3.40GHz     | 7597 | 274  | 29.33 | \$259.00  |
| Intel Core i5-4670K CPT @ 3.40GHz | 7411 | 287  | NA    | NA        |
| Intel Core i5-4670S @ 3.10GHz     | 6436 | 358  | NA    | NA        |
| Intel Core i5-4670T @ 2.30GHz     | 6229 | 371  | 27.44 | \$227.00* |
| Intel Core i5-4690 @ 3.50GHz      | 7555 | 276  | 33.92 | \$222.72  |
| Intel Core i5-4690K @ 3.50GHz     | 7700 | 268  | 32.09 | \$239.99  |
| Intel Core i5-4690S @ 3.20GHz     | 7322 | 293  | 34.87 | \$210.00  |
| Intel Core i5-4690T @ 2.50GHz     | 6491 | 353  | NA    | NA        |
| Intel Core i5-5200U @ 2.20GHz     | 3480 | 790  | NA    | NA        |
| Intel Core i5-5250U @ 1.60GHz     | 3592 | 760  | 8.13  | \$441.89* |
| Intel Core i5-5257U @ 2.70GHz     | 4330 | 608  | NA    | NA        |
| Intel Core i5-5287U @ 2.90GHz     | 4679 | 550  | NA    | NA        |
| Intel Core i5-5300U @ 2.30GHz     | 3759 | 719  | 7.30  | \$515.00* |
| Intel Core i5-5350U @ 1.80GHz     | 2493 | 1066 | NA    | NA        |
| Intel Core i5-5575R @ 2.80GHz     | 6836 | 323  | NA    | NA        |
| Intel Core i5-5675C @ 3.10GHz     | 8033 | 248  | 27.70 | \$289.99  |
| Intel Core i5-5675R @ 3.10GHz     | 7687 | 270  | NA    | NA        |

| Intel Core i5-6198DU @ 2.30GHz | 4131                                    | 647                       | NA                              | NA             |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i5-6200U @ 2.30GHz  | 3916                                    | 687                       | NA                              | NA             |
| Intel Core i5-6260U @ 1.80GHz  | 4323                                    | 613                       | 8.33                            | \$518.99*      |
| Intel Core i5-6267U @ 2.90GHz  | 4886                                    | 522                       | NA                              | NA             |
| Intel Core i5-6300HQ @ 2.30GHz | 5842                                    | 405                       | NA                              | NA             |
| Intel Core i5-6300U @ 2.40GHz  | 4328                                    | 609                       | NA                              | NA             |
| Intel Core i5-6400 @ 2.70GHz   | 6587                                    | 342                       | 36.00                           | \$182.99       |
| Intel Core i5-6400T @ 2.20GHz  | 5441                                    | 452                       | 34.23                           | \$159.00       |
| Intel Core i5-6402P @ 2.80GHz  | 6992                                    | 316                       | 34.60                           | \$202.11*      |
| Intel Core i5-6440EQ @ 2.70GHz | 5778                                    | 412                       | NA                              | NA             |
| Intel Core i5-6440HQ @ 2.60GHz | 6553                                    | 349                       | NA                              | NA             |
| Intel Core i5-6500 @ 3.20GHz   | 7076                                    | 306                       | 34.52                           | \$204.99       |
| Intel Core i5-6500T @ 2.50GHz  | 5974                                    | 392                       | NA                              | NA             |
| Intel Core i5-6500TE @ 2.30GHz | 5655                                    | 429                       | NA                              | NA             |
| Intel Core i5-6600 @ 3.30GHz   | 7699                                    | 269                       | 35.00                           | \$219.99       |
| Intel Core i5-6600K @ 3.50GHz  | 7864                                    | 257                       | 35.75                           | \$219.99       |
| Intel Core i5-6600T @ 2.70GHz  | 7179                                    | 299                       | 15.20                           | \$472.40*      |
| Intel Core i5-7200U @ 2.50GHz  | 4755                                    | 538                       | NA                              | NA             |
| Intel Core i5-7400T @ 2.40GHz  | 6779                                    | 328                       | NA                              | NA             |
| Intel Core i5-74050S @ 2.50GHz | 4928                                    | 512                       | NA                              | NA             |
| Intel Core i7-610 @ 2.53GHz    | 1969                                    | 1255                      | NA                              | NA             |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core i7-610E @ 2.53GHz   | 2425                                    | 1084                      | NA                              | NA             |
| Intel Core i7-620LM @ 2.00GHz  | 2085                                    | 1218                      | NA                              | NA             |
| Intel Core i7-620M @ 2.67GHz   | 2765                                    | 986                       | 39.51                           | \$70.00        |
| Intel Core i7-620UM @ 1.07GHz  | 1302                                    | 1564                      | NA                              | NA             |

|                               |      |      |       |             |
|-------------------------------|------|------|-------|-------------|
| Intel Core i7-640LM @ 2.13GHz | 2232 | 1160 | NA    | NA          |
| Intel Core i7-640M @ 2.80GHz  | 2893 | 949  | 17.18 | \$168.41*   |
| Intel Core i7-640UM @ 1.20GHz | 1696 | 1379 | NA    | NA          |
| Intel Core i7-660UM @ 1.33GHz | 1900 | 1281 | NA    | NA          |
| Intel Core i7-680UM @ 1.47GHz | 1739 | 1355 | NA    | NA          |
| Intel Core i7-720QM @ 1.60GHz | 3044 | 904  | 34.57 | \$88.05     |
| Intel Core i7-740QM @ 1.73GHz | 3218 | 854  | 37.87 | \$85.00*    |
| Intel Core i7-820QM @ 1.73GHz | 3249 | 844  | 41.76 | \$77.80*    |
| Intel Core i7-840QM @ 1.87GHz | 3433 | 804  | 11.84 | \$289.96*   |
| Intel Core i7-860 @ 2.80GHz   | 5080 | 494  | 53.49 | \$94.99     |
| Intel Core i7-860S @ 2.53GHz  | 4776 | 532  | 11.32 | \$422.01    |
| Intel Core i7-870 @ 2.93GHz   | 5440 | 453  | 25.33 | \$214.73    |
| Intel Core i7-870S @ 2.67GHz  | 5052 | 499  | NA    | NA          |
| Intel Core i7-875K @ 2.93GHz  | 5499 | 445  | 11.32 | \$486.01    |
| Intel Core i7-880 @ 3.07GHz   | 5694 | 423  | 9.77  | \$583.00*   |
| Intel Core i7-920 @ 2.67GHz   | 4982 | 507  | 14.66 | \$339.95    |
| Intel Core i7-920XM @ 2.00GHz | 3813 | 710  | 23.04 | \$165.55*   |
| Intel Core i7-930 @ 2.80GHz   | 5206 | 479  | 13.47 | \$386.63    |
| Intel Core i7-940 @ 2.93GHz   | 5434 | 454  | 10.25 | \$529.99    |
| Intel Core i7-940XM @ 2.13GHz | 4059 | 659  | NA    | NA          |
| Intel Core i7-950 @ 3.07GHz   | 5615 | 432  | 24.95 | \$225.05    |
| Intel Core i7-960 @ 3.20GHz   | 5899 | 400  | 59.00 | \$99.99     |
| Intel Core i7-965 @ 3.20GHz   | 5911 | 399  | 3.93  | \$1,504.97* |
| Intel Core i7-970 @ 3.20GHz   | 8488 | 227  | 9.87  | \$859.95    |
| Intel Core i7-975 @ 3.33GHz   | 6209 | 374  | 12.54 | \$495.00    |
| Intel Core i7-980 @ 3.33GHz   | 8831 | 208  | 7.96  | \$1,108.95* |
| Intel Core i7-980X @ 3.33GHz  | 8946 | 200  | 9.33  | \$959.00    |

| Intel Core i7-985 @ 3.47GHz    | 6641                                    | 335                       | NA                              | NA             |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i7-990X @ 3.47GHz   | 9215                                    | 185                       | 7.04                            | \$1,309.00     |
| Intel Core i7-995X @ 3.60GHz   | 10469                                   | 106                       | NA                              | NA             |
| Intel Core i7-2600 @ 3.40GHz   | 8237                                    | 239                       | 34.32                           | \$239.99       |
| Intel Core i7-2600K @ 3.40GHz  | 8494                                    | 225                       | 19.94                           | \$425.99       |
| Intel Core i7-2600S @ 2.80GHz  | 7041                                    | 312                       | 25.79                           | \$272.99       |
| Intel Core i7-2610UE @ 1.50GHz | 2481                                    | 1069                      | NA                              | NA             |
| Intel Core i7-2617M @ 1.50GHz  | 2769                                    | 983                       | NA                              | NA             |
| Intel Core i7-2620M @ 2.70GHz  | 3803                                    | 712                       | 26.36                           | \$144.33       |
| Intel Core i7-2630QM @ 2.00GHz | 5558                                    | 437                       | 30.06                           | \$184.95*      |
| Intel Core i7-2630UM @ 1.60GHz | 3204                                    | 857                       | NA                              | NA             |
| Intel Core i7-2635QM @ 2.00GHz | 5426                                    | 456                       | NA                              | NA             |
| Intel Core i7-2637M @ 1.70GHz  | 2869                                    | 955                       | NA                              | NA             |
| Intel Core i7-2640M @ 2.80GHz  | 3925                                    | 683                       | 21.11                           | \$185.96       |
| Intel Core i7-2655LE @ 2.20GHz | 3057                                    | 896                       | NA                              | NA             |
| Intel Core i7-2670QM @ 2.20GHz | 5931                                    | 396                       | 28.25                           | \$209.95*      |
| Intel Core i7-2675QM @ 2.20GHz | 5539                                    | 441                       | NA                              | NA             |
| Intel Core i7-2677M @ 1.80GHz  | 2818                                    | 970                       | NA                              | NA             |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core i7-2700K @ 3.50GHz  | 8788                                    | 209                       | 16.26                           | \$540.58*      |
| Intel Core i7-2710QE @ 2.10GHz | 5398                                    | 461                       | NA                              | NA             |
| Intel Core i7-2715QE @ 2.10GHz | 5262                                    | 474                       | NA                              | NA             |
| Intel Core i7-2720QM @ 2.20GHz | 6106                                    | 380                       | 19.76                           | \$309.00*      |
| Intel Core i7-2760QM @ 2.40GHz | 6627                                    | 338                       | 14.18                           | \$467.40*      |
| Intel Core i7-2820QM @ 2.30GHz | 6631                                    | 336                       | 18.42                           | \$359.95*      |
| Intel Core i7-2840QM @ 2.40GHz | 6766                                    | 329                       | NA                              | NA             |

|                                |       |     |       |             |
|--------------------------------|-------|-----|-------|-------------|
| Intel Core i7-2860QM @ 2.50GHz | 7068  | 307 | 11.78 | \$599.99*   |
| Intel Core i7-2920XM @ 2.50GHz | 7041  | 311 | 11.56 | \$608.95*   |
| Intel Core i7-2960XM @ 2.70GHz | 7184  | 298 | 6.56  | \$1,096.00* |
| Intel Core i7-3517U @ 1.90GHz  | 3604  | 757 | NA    | NA          |
| Intel Core i7-3517UE @ 1.70GHz | 3402  | 812 | NA    | NA          |
| Intel Core i7-3520M @ 2.90GHz  | 4512  | 579 | NA    | NA          |
| Intel Core i7-3537U @ 2.00GHz  | 3853  | 698 | NA    | NA          |
| Intel Core i7-3540M @ 3.00GHz  | 4628  | 560 | 13.28 | \$348.54*   |
| Intel Core i7-3555LE @ 2.50GHz | 4130  | 648 | NA    | NA          |
| Intel Core i7-3610QE @ 2.30GHz | 6193  | 376 | NA    | NA          |
| Intel Core i7-3610QM @ 2.30GHz | 7459  | 284 | 18.65 | \$399.99*   |
| Intel Core i7-3612QE @ 2.10GHz | 6369  | 364 | NA    | NA          |
| Intel Core i7-3612QM @ 2.10GHz | 6836  | 324 | NA    | NA          |
| Intel Core i7-3615QE @ 2.30GHz | 7133  | 303 | NA    | NA          |
| Intel Core i7-3615QM @ 2.30GHz | 7372  | 288 | NA    | NA          |
| Intel Core i7-3630QM @ 2.40GHz | 7600  | 273 | 24.96 | \$304.49*   |
| Intel Core i7-3632QM @ 2.20GHz | 6931  | 320 | 19.31 | \$358.91*   |
| Intel Core i7-3635QM @ 2.40GHz | 6628  | 337 | NA    | NA          |
| Intel Core i7-3667U @ 2.00GHz  | 3945  | 680 | NA    | NA          |
| Intel Core i7-3687U @ 2.10GHz  | 4256  | 626 | NA    | NA          |
| Intel Core i7-3689Y @ 1.50GHz  | 3485  | 789 | NA    | NA          |
| Intel Core i7-3720QM @ 2.60GHz | 8170  | 241 | 21.78 | \$375.17*   |
| Intel Core i7-3740 @ 3.40GHz   | 10408 | 109 | NA    | NA          |
| Intel Core i7-3740QM @ 2.70GHz | 8365  | 232 | 20.45 | \$409.00*   |
| Intel Core i7-3770 @ 3.40GHz   | 9324  | 175 | 29.65 | \$314.48    |
| Intel Core i7-3770K @ 3.50GHz  | 9555  | 158 | 26.92 | \$355.00    |
| Intel Core i7-3770S @ 3.10GHz  | 8882  | 205 | 26.92 | \$330.00    |

| Intel Core i7-3770T @ 2.50GHz  | 8209                                    | 240                       | 24.88                           | \$329.99*      |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i7-3820 @ 3.60GHz   | 8987                                    | 197                       | 31.10                           | \$289.00       |
| Intel Core i7-3820QM @ 2.70GHz | 8488                                    | 226                       | 14.08                           | \$602.97*      |
| Intel Core i7-3840QM @ 2.80GHz | 8867                                    | 206                       | 17.93                           | \$494.53*      |
| Intel Core i7-3920XM @ 2.90GHz | 9243                                    | 184                       | 8.43                            | \$1,096.00*    |
| Intel Core i7-3930K @ 3.20GHz  | 12033                                   | 86                        | 19.70                           | \$610.75       |
| Intel Core i7-3940XM @ 3.00GHz | 9378                                    | 173                       | 17.05                           | \$549.99       |
| Intel Core i7-3960X @ 3.30GHz  | 12724                                   | 79                        | 11.70                           | \$1,087.38     |
| Intel Core i7-3970X @ 3.50GHz  | 12653                                   | 80                        | 11.50                           | \$1,099.99     |
| Intel Core i7-4500U @ 1.80GHz  | 3787                                    | 717                       | NA                              | NA             |
| Intel Core i7-4510U @ 2.00GHz  | 3923                                    | 684                       | NA                              | NA             |
| Intel Core i7-4550U @ 1.50GHz  | 3926                                    | 682                       | NA                              | NA             |
| Intel Core i7-4558U @ 2.80GHz  | 4286                                    | 619                       | NA                              | NA             |
| Intel Core i7-4560U @ 1.60GHz  | 4137                                    | 646                       | NA                              | NA             |
| Intel Core i7-4578U @ 3.00GHz  | 4679                                    | 551                       | NA                              | NA             |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core i7-4600M @ 2.90GHz  | 4784                                    | 531                       | NA                              | NA             |
| Intel Core i7-4600U @ 2.10GHz  | 4111                                    | 651                       | NA                              | NA             |
| Intel Core i7-4610M @ 3.00GHz  | 4970                                    | 509                       | NA                              | NA             |
| Intel Core i7-4610Y @ 1.70GHz  | 3738                                    | 725                       | NA                              | NA             |
| Intel Core i7-4650U @ 1.70GHz  | 4030                                    | 663                       | NA                              | NA             |
| Intel Core i7-4700EQ @ 2.40GHz | 7325                                    | 292                       | NA                              | NA             |
| Intel Core i7-4700HQ @ 2.40GHz | 7759                                    | 263                       | 20.26                           | \$383.00*      |
| Intel Core i7-4700MQ @ 2.40GHz | 7727                                    | 266                       | 16.53                           | \$467.40*      |
| Intel Core i7-4702HQ @ 2.20GHz | 7534                                    | 278                       | NA                              | NA             |
| Intel Core i7-4702MQ @ 2.20GHz | 7140                                    | 301                       | NA                              | NA             |

|                                |       |     |              |                  |
|--------------------------------|-------|-----|--------------|------------------|
| Intel Core i7-4710HQ @ 2.50GHz | 7818  | 260 | NA           | NA               |
| Intel Core i7-4710MQ @ 2.50GHz | 7995  | 251 | <b>29.44</b> | <b>\$271.57*</b> |
| Intel Core i7-4712HQ @ 2.30GHz | 7482  | 282 | NA           | NA               |
| Intel Core i7-4712MQ @ 2.30GHz | 7118  | 305 | NA           | NA               |
| Intel Core i7-4720HQ @ 2.60GHz | 8043  | 247 | NA           | NA               |
| Intel Core i7-4722HQ @ 2.40GHz | 8052  | 246 | NA           | NA               |
| Intel Core i7-4750HQ @ 2.00GHz | 8302  | 236 | NA           | NA               |
| Intel Core i7-4760HQ @ 2.10GHz | 7836  | 259 | NA           | NA               |
| Intel Core i7-4765T @ 2.00GHz  | 7307  | 296 | NA           | NA               |
| Intel Core i7-4770 @ 3.40GHz   | 9808  | 142 | <b>31.64</b> | <b>\$309.99</b>  |
| Intel Core i7-4770HQ @ 2.20GHz | 8918  | 203 | NA           | NA               |
| Intel Core i7-4770K @ 3.50GHz  | 10121 | 123 | <b>25.37</b> | <b>\$399.00</b>  |
| Intel Core i7-4770R @ 3.20GHz  | 9856  | 140 | NA           | NA               |
| Intel Core i7-4770S @ 3.10GHz  | 9319  | 177 | <b>30.46</b> | <b>\$305.99</b>  |
| Intel Core i7-4770T @ 2.50GHz  | 8636  | 217 | <b>14.16</b> | <b>\$609.95*</b> |
| Intel Core i7-4770TE @ 2.30GHz | 7065  | 308 | NA           | NA               |
| Intel Core i7-4771 @ 3.50GHz   | 9876  | 139 | <b>31.06</b> | <b>\$317.99</b>  |
| Intel Core i7-4785T @ 2.20GHz  | 7542  | 277 | NA           | NA               |
| Intel Core i7-4790 @ 3.60GHz   | 9998  | 131 | <b>32.78</b> | <b>\$304.99</b>  |
| Intel Core i7-4790K @ 4.00GHz  | 11187 | 95  | <b>32.91</b> | <b>\$339.99</b>  |
| Intel Core i7-4790S @ 3.20GHz  | 9576  | 157 | <b>31.40</b> | <b>\$304.99</b>  |
| Intel Core i7-4790T @ 2.70GHz  | 9076  | 192 | NA           | NA               |
| Intel Core i7-4800MQ @ 2.70GHz | 8522  | 224 | <b>16.71</b> | <b>\$509.95</b>  |
| Intel Core i7-4810MQ @ 2.80GHz | 8707  | 211 | <b>13.10</b> | <b>\$664.62*</b> |
| Intel Core i7-4820K @ 3.70GHz  | 9756  | 146 | <b>31.47</b> | <b>\$309.99</b>  |
| Intel Core i7-4850HQ @ 2.30GHz | 9098  | 189 | <b>20.96</b> | <b>\$434.00*</b> |
| Intel Core i7-4860EQ @ 1.80GHz | 7933  | 254 | NA           | NA               |

| Intel Core i7-4860HQ @ 2.40GHz | 9274                                    | 180                       | NA                              | NA             |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core i7-4870HQ @ 2.50GHz | 9269                                    | 181                       | NA                              | NA             |
| Intel Core i7-4900MQ @ 2.80GHz | 9067                                    | 194                       | 14.26                           | \$635.70*      |
| Intel Core i7-4910MQ @ 2.90GHz | 9401                                    | 170                       | 16.41                           | \$572.99*      |
| Intel Core i7-4930K @ 3.40GHz  | 13059                                   | 74                        | 18.40                           | \$709.87       |
| Intel Core i7-4930MX @ 3.00GHz | 9466                                    | 163                       | 8.64                            | \$1,096.00*    |
| Intel Core i7-4940MX @ 3.10GHz | 9907                                    | 138                       | 9.82                            | \$1,008.95*    |
| Intel Core i7-4960HQ @ 2.60GHz | 9779                                    | 145                       | 15.70                           | \$623.00*      |
| Intel Core i7-4960X @ 3.60GHz  | 13894                                   | 60                        | 13.56                           | \$1,024.99*    |
| Intel Core i7-4980HQ @ 2.80GHz | 10043                                   | 127                       | NA                              | NA             |
| Intel Core i7-5500U @ 2.40GHz  | 3998                                    | 668                       | NA                              | NA             |
| Intel Core i7-5550U @ 2.00GHz  | 4246                                    | 628                       | NA                              | NA             |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core i7-5557U @ 3.10GHz  | 4902                                    | 514                       | 7.26                            | \$675.00       |
| Intel Core i7-5600U @ 2.60GHz  | 4260                                    | 625                       | NA                              | NA             |
| Intel Core i7-5650U @ 2.20GHz  | 4161                                    | 643                       | NA                              | NA             |
| Intel Core i7-5675C @ 3.10GHz  | 8164                                    | 242                       | NA                              | NA             |
| Intel Core i7-5700EQ @ 2.60GHz | 8239                                    | 238                       | NA                              | NA             |
| Intel Core i7-5700HQ @ 2.70GHz | 8431                                    | 230                       | NA                              | NA             |
| Intel Core i7-5775C @ 3.30GHz  | 11055                                   | 99                        | 30.21                           | \$365.99       |
| Intel Core i7-5775R @ 3.30GHz  | 10868                                   | 103                       | NA                              | NA             |
| Intel Core i7-5820K @ 3.30GHz  | 12980                                   | 75                        | 33.29                           | \$389.99       |
| Intel Core i7-5850HQ @ 2.70GHz | 9398                                    | 171                       | NA                              | NA             |
| Intel Core i7-5930K @ 3.50GHz  | 13638                                   | 67                        | 23.52                           | \$579.99       |
| Intel Core i7-5950HQ @ 2.90GHz | 10892                                   | 102                       | NA                              | NA             |
| Intel Core i7-5960X @ 3.00GHz  | 15964                                   | 42                        | 15.71                           | \$1,015.99     |

|                                |       |     |              |                    |
|--------------------------------|-------|-----|--------------|--------------------|
| Intel Core i7-6498DU @ 2.50GHz | 4893  | 517 | NA           | NA                 |
| Intel Core i7-6500U @ 2.50GHz  | 4385  | 598 | NA           | NA                 |
| Intel Core i7-6560U @ 2.20GHz  | 4765  | 533 | NA           | NA                 |
| Intel Core i7-6567U @ 3.30GHz  | 5599  | 435 | NA           | NA                 |
| Intel Core i7-6600U @ 2.60GHz  | 4755  | 537 | NA           | NA                 |
| Intel Core i7-6650U @ 2.20GHz  | 4884  | 523 | NA           | NA                 |
| Intel Core i7-6700 @ 3.40GHz   | 10010 | 130 | <b>32.82</b> | <b>\$304.99</b>    |
| Intel Core i7-6700HQ @ 2.60GHz | 8060  | 245 | <b>5.34</b>  | <b>\$1,509.00*</b> |
| Intel Core i7-6700K @ 4.00GHz  | 11044 | 100 | <b>36.82</b> | <b>\$299.99</b>    |
| Intel Core i7-6700T @ 2.80GHz  | 8983  | 198 | <b>29.07</b> | <b>\$309.00</b>    |
| Intel Core i7-6700TE @ 2.40GHz | 8539  | 223 | NA           | NA                 |
| Intel Core i7-6770HQ @ 2.60GHz | 9595  | 156 | <b>9.51</b>  | <b>\$1,009.00</b>  |
| Intel Core i7-6800K @ 3.40GHz  | 13641 | 66  | <b>35.91</b> | <b>\$379.90</b>    |
| Intel Core i7-6820EQ @ 2.80GHz | 9117  | 187 | NA           | NA                 |
| Intel Core i7-6820HK @ 2.70GHz | 9048  | 195 | NA           | NA                 |
| Intel Core i7-6820HQ @ 2.70GHz | 8719  | 210 | NA           | NA                 |
| Intel Core i7-6822EQ @ 2.00GHz | 6359  | 366 | NA           | NA                 |
| Intel Core i7-6850K @ 3.60GHz  | 14409 | 53  | <b>28.82</b> | <b>\$499.99</b>    |
| Intel Core i7-6900K @ 3.20GHz  | 17624 | 25  | <b>16.63</b> | <b>\$1,059.99</b>  |
| Intel Core i7-6920HQ @ 2.90GHz | 9612  | 154 | NA           | NA                 |
| Intel Core i7-6950X @ 3.00GHz  | 20016 | 16  | <b>12.59</b> | <b>\$1,589.99</b>  |
| Intel Core i7-7500U @ 2.70GHz  | 5315  | 469 | NA           | NA                 |
| Intel Core i7-7700K @ 4.20GHz  | 12945 | 76  | <b>37.09</b> | <b>\$349.00*</b>   |
| Intel Core m3-6Y30 @ 0.90GHz   | 3056  | 897 | NA           | NA                 |
| Intel Core m5-6Y54 @ 1.10GHz   | 3258  | 841 | NA           | NA                 |
| Intel Core m5-6Y57 @ 1.10GHz   | 3196  | 860 | NA           | NA                 |
| Intel Core m7-6Y75 @ 1.20GHz   | 3561  | 765 | NA           | NA                 |

| Intel Core M-5Y10 @ 0.80GHz     | 2795                                    | 977                       | NA                              | NA             |
|---------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Core M-5Y10a @ 0.80GHz    | 2150                                    | 1191                      | NA                              | NA             |
| Intel Core M-5Y10c @ 0.80GHz    | 2808                                    | 972                       | 9.99                            | \$281.00*      |
| Intel Core M-5Y31 @ 0.90GHz     | 2715                                    | 999                       | NA                              | NA             |
| Intel Core M-5Y51 @ 1.10GHz     | 2566                                    | 1044                      | NA                              | NA             |
| Intel Core M-5Y70 @ 1.10GHz     | 3052                                    | 899                       | NA                              | NA             |
| Intel Core M-5Y71 @ 1.20GHz     | 3025                                    | 906                       | 10.77                           | \$281.00*      |
| Intel Core Solo T1300 @ 1.66GHz | 395                                     | 2120                      | NA                              | NA             |
| Intel Core Solo T1350 @ 1.86GHz | 403                                     | 2104                      | NA                              | NA             |
| CPU Name                        | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Core Solo T1400 @ 1.83GHz | 472                                     | 2035                      | NA                              | NA             |
| Intel Core Solo U1300 @ 1.06GHz | 276                                     | 2272                      | NA                              | NA             |
| Intel Core Solo U1400 @ 1.20GHz | 282                                     | 2261                      | NA                              | NA             |
| Intel Core Solo U1500 @ 1.33GHz | 327                                     | 2193                      | NA                              | NA             |
| Intel E3000 @ 3.40GHz           | 2767                                    | 985                       | NA                              | NA             |
| Intel Pentium 4 1.40GHz         | 164                                     | 2378                      | NA                              | NA             |
| Intel Pentium 4 1.50GHz         | 134                                     | 2391                      | NA                              | NA             |
| Intel Pentium 4 1.60GHz         | 129                                     | 2394                      | NA                              | NA             |
| Intel Pentium 4 1.70GHz         | 133                                     | 2392                      | NA                              | NA             |
| Intel Pentium 4 1.80GHz         | 160                                     | 2380                      | NA                              | NA             |
| Intel Pentium 4 1.90GHz         | 159                                     | 2381                      | NA                              | NA             |
| Intel Pentium 4 2.00GHz         | 189                                     | 2360                      | NA                              | NA             |
| Intel Pentium 4 2.20GHz         | 210                                     | 2344                      | NA                              | NA             |
| Intel Pentium 4 2.26GHz         | 222                                     | 2331                      | NA                              | NA             |
| Intel Pentium 4 2.40GHz         | 229                                     | 2325                      | NA                              | NA             |
| Intel Pentium 4 2.50GHz         | 245                                     | 2310                      | NA                              | NA             |

|                                |     |      |      |           |
|--------------------------------|-----|------|------|-----------|
| Intel Pentium 4 2.53GHz        | 249 | 2307 | NA   | NA        |
| Intel Pentium 4 2.60GHz        | 290 | 2244 | NA   | NA        |
| Intel Pentium 4 2.66GHz        | 256 | 2295 | NA   | NA        |
| Intel Pentium 4 2.80GHz        | 324 | 2196 | NA   | NA        |
| Intel Pentium 4 2.93GHz        | 303 | 2225 | NA   | NA        |
| Intel Pentium 4 3.00GHz        | 355 | 2167 | NA   | NA        |
| Intel Pentium 4 3.06GHz        | 346 | 2176 | NA   | NA        |
| Intel Pentium 4 3.20GHz        | 378 | 2137 | NA   | NA        |
| Intel Pentium 4 3.40GHz        | 399 | 2114 | NA   | NA        |
| Intel Pentium 4 3.46GHz        | 487 | 2017 | NA   | NA        |
| Intel Pentium 4 3.60GHz        | 493 | 2010 | NA   | NA        |
| Intel Pentium 4 3.73GHz        | 486 | 2019 | NA   | NA        |
| Intel Pentium 4 3.80GHz        | 490 | 2015 | NA   | NA        |
| Intel Pentium 4 4.00GHz        | 184 | 2367 | NA   | NA        |
| Intel Pentium 4 1300MHz        | 119 | 2397 | NA   | NA        |
| Intel Pentium 4 1400MHz        | 127 | 2395 | NA   | NA        |
| Intel Pentium 4 1500MHz        | 125 | 2396 | NA   | NA        |
| Intel Pentium 4 1600MHz        | 193 | 2358 | 0.36 | \$532.45* |
| Intel Pentium 4 1700MHz        | 154 | 2384 | NA   | NA        |
| Intel Pentium 4 1800MHz        | 176 | 2373 | NA   | NA        |
| Intel Pentium 4 Mobile 1.40GHz | 149 | 2387 | NA   | NA        |
| Intel Pentium 4 Mobile 1.50GHz | 197 | 2354 | NA   | NA        |
| Intel Pentium 4 Mobile 1.60GHz | 178 | 2371 | NA   | NA        |
| Intel Pentium 4 Mobile 1.70GHz | 208 | 2346 | NA   | NA        |
| Intel Pentium 4 Mobile 1.80GHz | 175 | 2374 | NA   | NA        |
| Intel Pentium 4 Mobile 1.90GHz | 209 | 2345 | NA   | NA        |
| Intel Pentium 4 Mobile 2.00GHz | 202 | 2350 | NA   | NA        |

| Intel Pentium 5 2.66GHz       | 705                                     | 1896                      | NA                              | NA             |
|-------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Pentium 957 @ 1.20GHz   | 1095                                    | 1677                      | 8.18                            | \$134.00*      |
| Intel Pentium 967 @ 1.30GHz   | 1156                                    | 1645                      | NA                              | NA             |
| Intel Pentium 977 @ 1.40GHz   | 1148                                    | 1652                      | NA                              | NA             |
| Intel Pentium 987 @ 1.50GHz   | 1230                                    | 1614                      | NA                              | NA             |
| Intel Pentium 997 @ 1.60GHz   | 1442                                    | 1493                      | NA                              | NA             |
| CPU Name                      | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Pentium 1403 @ 2.60GHz  | 2747                                    | 991                       | NA                              | NA             |
| Intel Pentium 2020M @ 2.40GHz | 2295                                    | 1131                      | 17.13                           | \$134.00*      |
| Intel Pentium 2030M @ 2.50GHz | 2403                                    | 1092                      | 17.94                           | \$134.00*      |
| Intel Pentium 2117U @ 1.80GHz | 1654                                    | 1405                      | 12.35                           | \$134.00*      |
| Intel Pentium 2127U @ 1.90GHz | 1838                                    | 1314                      | 13.72                           | \$134.00*      |
| Intel Pentium 2129Y @ 1.10GHz | 1087                                    | 1684                      | 8.12                            | \$134.00*      |
| Intel Pentium 3550M @ 2.30GHz | 2316                                    | 1118                      | NA                              | NA             |
| Intel Pentium 3556U @ 1.70GHz | 1705                                    | 1370                      | NA                              | NA             |
| Intel Pentium 3558U @ 1.70GHz | 1724                                    | 1361                      | NA                              | NA             |
| Intel Pentium 3560M @ 2.40GHz | 2245                                    | 1150                      | NA                              | NA             |
| Intel Pentium 3560Y @ 1.20GHz | 1259                                    | 1594                      | NA                              | NA             |
| Intel Pentium 3805U @ 1.90GHz | 1997                                    | 1246                      | NA                              | NA             |
| Intel Pentium 3825U @ 1.90GHz | 2626                                    | 1020                      | NA                              | NA             |
| Intel Pentium 4405U @ 2.10GHz | 2998                                    | 919                       | NA                              | NA             |
| Intel Pentium 4405Y @ 1.50GHz | 2124                                    | 1201                      | NA                              | NA             |
| Intel Pentium A1018 @ 2.10GHz | 2153                                    | 1189                      | NA                              | NA             |
| Intel Pentium B940 @ 2.00GHz  | 1722                                    | 1363                      | NA                              | NA             |
| Intel Pentium B950 @ 2.10GHz  | 1719                                    | 1364                      | NA                              | NA             |
| Intel Pentium B960 @ 2.20GHz  | 1867                                    | 1302                      | 38.13                           | \$48.99*       |

|                                             |      |      |        |           |
|---------------------------------------------|------|------|--------|-----------|
| Intel Pentium B970 @ 2.30GHz                | 1960 | 1256 | 38.45  | \$50.99*  |
| Intel Pentium B980 @ 2.40GHz                | 2075 | 1223 | 29.67  | \$69.95   |
| Intel Pentium D 805 @ 2.66GHz               | 533  | 1983 | NA     | NA        |
| Intel Pentium D 830 @ 3.00GHz               | 649  | 1921 | NA     | NA        |
| Intel Pentium D 915 @ 2.80GHz               | 588  | 1951 | NA     | NA        |
| Intel Pentium D 940 @ 3.20GHz               | 712  | 1892 | NA     | NA        |
| Intel Pentium D 950 @ 3.40GHz               | 742  | 1876 | NA     | NA        |
| Intel Pentium D 960 @ 3.60GHz               | 837  | 1837 | NA     | NA        |
| Intel Pentium E2140 @ 1.60GHz               | 872  | 1818 | 5.94   | \$147.01  |
| Intel Pentium E2160 @ 1.80GHz               | 1000 | 1735 | 25.00  | \$40.00   |
| Intel Pentium E2180 @ 2.00GHz               | 1087 | 1685 | 8.37   | \$129.95  |
| Intel Pentium E2200 @ 2.20GHz               | 1202 | 1623 | 40.10  | \$29.99*  |
| Intel Pentium E2210 @ 2.20GHz               | 1174 | 1637 | NA     | NA        |
| Intel Pentium E2220 @ 2.40GHz               | 1342 | 1544 | 10.17  | \$132.01  |
| Intel Pentium E5200 @ 2.50GHz               | 1494 | 1470 | 15.10  | \$99.00   |
| Intel Pentium E5300 @ 2.60GHz               | 1550 | 1449 | 24.17  | \$64.15*  |
| Intel Pentium E5400 @ 2.70GHz               | 1602 | 1424 | 59.35  | \$27.00   |
| Intel Pentium E5500 @ 2.80GHz               | 1636 | 1411 | 41.43  | \$39.50*  |
| Intel Pentium E5700 @ 3.00GHz               | 1747 | 1351 | 23.64  | \$73.91*  |
| Intel Pentium E5800 @ 3.20GHz               | 1907 | 1279 | 28.05  | \$68.00   |
| Intel Pentium E6300 @ 2.80GHz               | 1703 | 1374 | 42.60  | \$39.99*  |
| Intel Pentium E6500 @ 2.93GHz               | 1768 | 1339 | 35.38  | \$49.99*  |
| Intel Pentium E6600 @ 3.06GHz               | 1885 | 1291 | 117.87 | \$16.00*  |
| Intel Pentium E6700 @ 3.20GHz               | 1949 | 1262 | 74.98  | \$26.00   |
| Intel Pentium E6800 @ 3.33GHz               | 2048 | 1228 | 19.81  | \$103.43* |
| Intel Pentium Extreme Edition 955 @ 3.46GHz | 905  | 1803 | 1.19   | \$759.00* |
| Intel Pentium Extreme Edition 965 @ 3.73GHz | 948  | 1773 | NA     | NA        |

| Intel Pentium G620 @ 2.60GHz   | 2305                                    | 1124                      | 38.43                           | \$59.99        |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Pentium G620T @ 2.20GHz  | 2073                                    | 1224                      | 25.92                           | \$79.99*       |
| Intel Pentium G630 @ 2.70GHz   | 2378                                    | 1100                      | 40.32                           | \$59.00        |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Pentium G630T @ 2.30GHz  | 2125                                    | 1200                      | 26.57                           | \$79.99*       |
| Intel Pentium G640 @ 2.80GHz   | 2523                                    | 1052                      | 14.13                           | \$178.59*      |
| Intel Pentium G640T @ 2.40GHz  | 1939                                    | 1266                      | NA                              | NA             |
| Intel Pentium G645 @ 2.90GHz   | 2601                                    | 1031                      | 16.26                           | \$159.95       |
| Intel Pentium G645T @ 2.50GHz  | 2343                                    | 1109                      | NA                              | NA             |
| Intel Pentium G840 @ 2.80GHz   | 2592                                    | 1034                      | 43.21                           | \$59.99*       |
| Intel Pentium G850 @ 2.90GHz   | 2670                                    | 1007                      | 29.84                           | \$89.49        |
| Intel Pentium G860 @ 3.00GHz   | 2768                                    | 984                       | 69.21                           | \$40.00*       |
| Intel Pentium G870 @ 3.10GHz   | 2857                                    | 957                       | 13.25                           | \$215.59*      |
| Intel Pentium G2010 @ 2.80GHz  | 2609                                    | 1027                      | 5.60                            | \$465.64*      |
| Intel Pentium G2020 @ 2.90GHz  | 2782                                    | 981                       | 46.41                           | \$59.97*       |
| Intel Pentium G2020T @ 2.50GHz | 2459                                    | 1075                      | 38.42                           | \$64.00*       |
| Intel Pentium G2030 @ 3.00GHz  | 2917                                    | 939                       | 13.67                           | \$213.47*      |
| Intel Pentium G2030T @ 2.60GHz | 2442                                    | 1080                      | 38.16                           | \$64.00*       |
| Intel Pentium G2100T @ 2.60GHz | 2802                                    | 973                       | NA                              | NA             |
| Intel Pentium G2120 @ 3.10GHz  | 3082                                    | 890                       | 19.27                           | \$159.95*      |
| Intel Pentium G2130 @ 3.20GHz  | 3222                                    | 852                       | 33.93                           | \$94.99        |
| Intel Pentium G2140 @ 3.30GHz  | 3448                                    | 800                       | 43.12                           | \$79.99        |
| Intel Pentium G3220 @ 3.00GHz  | 3175                                    | 867                       | 46.44                           | \$68.38        |
| Intel Pentium G3220T @ 2.60GHz | 2607                                    | 1028                      | 65.21                           | \$39.99*       |
| Intel Pentium G3240 @ 3.10GHz  | 3225                                    | 850                       | 54.95                           | \$58.70        |
| Intel Pentium G3240T @ 2.70GHz | 2963                                    | 928                       | NA                              | NA             |

|                                   |      |      |       |           |
|-----------------------------------|------|------|-------|-----------|
| Intel Pentium G3250 @ 3.20GHz     | 3285 | 833  | 55.95 | \$58.72   |
| Intel Pentium G3250T @ 2.80GHz    | 3003 | 917  | NA    | NA        |
| Intel Pentium G3258 @ 3.20GHz     | 3959 | 675  | 54.81 | \$72.24   |
| Intel Pentium G3260 @ 3.30GHz     | 3449 | 798  | 48.99 | \$70.40   |
| Intel Pentium G3260T @ 2.90GHz    | 2927 | 937  | NA    | NA        |
| Intel Pentium G3320TE @ 2.30GHz   | 2389 | 1096 | NA    | NA        |
| Intel Pentium G3420 @ 3.20GHz     | 3432 | 806  | 32.94 | \$104.20* |
| Intel Pentium G3420T @ 2.70GHz    | 3008 | 914  | NA    | NA        |
| Intel Pentium G3430 @ 3.30GHz     | 3490 | 785  | 31.62 | \$110.38  |
| Intel Pentium G3440 @ 3.30GHz     | 3425 | 810  | 38.25 | \$89.57   |
| Intel Pentium G3440T @ 2.80GHz    | 3101 | 887  | NA    | NA        |
| Intel Pentium G3450 @ 3.40GHz     | 3753 | 721  | 42.09 | \$89.17   |
| Intel Pentium G3450T @ 2.90GHz    | 2967 | 927  | NA    | NA        |
| Intel Pentium G3460 @ 3.50GHz     | 3578 | 763  | 40.03 | \$89.40   |
| Intel Pentium G3470 @ 3.60GHz     | 3724 | 730  | 35.61 | \$104.59  |
| Intel Pentium G4400 @ 3.30GHz     | 3652 | 744  | 58.32 | \$62.64   |
| Intel Pentium G4400T @ 2.90GHz    | 3288 | 831  | NA    | NA        |
| Intel Pentium G4500 @ 3.50GHz     | 3987 | 670  | 55.74 | \$71.54   |
| Intel Pentium G4500T @ 3.00GHz    | 3478 | 792  | NA    | NA        |
| Intel Pentium G4520 @ 3.60GHz     | 4223 | 631  | 47.15 | \$89.57   |
| Intel Pentium G6950 @ 2.80GHz     | 1889 | 1287 | 18.38 | \$102.80  |
| Intel Pentium G6951 @ 2.80GHz     | 2311 | 1122 | NA    | NA        |
| Intel Pentium G6960 @ 2.93GHz     | 2131 | 1196 | NA    | NA        |
| Intel Pentium III 933S @ 933MHz   | 238  | 2317 | NA    | NA        |
| Intel Pentium III 1133 @ 1133MHz  | 284  | 2258 | NA    | NA        |
| Intel Pentium III 1200 @ 1200MHz  | 278  | 2269 | NA    | NA        |
| Intel Pentium III 1266S @ 1266MHz | 309  | 2215 | NA    | NA        |

| CPU Name                          | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
|-----------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Pentium III 1400 @ 1400MHz  | 297                                     | 2235                      | NA                              | NA             |
| Intel Pentium III 1400S @ 1400MHz | 301                                     | 2231                      | NA                              | NA             |
| Intel Pentium III Mobile 750MHz   | 103                                     | 2400                      | NA                              | NA             |
| Intel Pentium III Mobile 800MHz   | 201                                     | 2351                      | NA                              | NA             |
| Intel Pentium III Mobile 866MHz   | 152                                     | 2385                      | NA                              | NA             |
| Intel Pentium III Mobile 933MHz   | 218                                     | 2335                      | 8.58                            | \$25.51        |
| Intel Pentium III Mobile 1000MHz  | 245                                     | 2309                      | NA                              | NA             |
| Intel Pentium III Mobile 1066MHz  | 268                                     | 2281                      | NA                              | NA             |
| Intel Pentium III Mobile 1133MHz  | 251                                     | 2302                      | NA                              | NA             |
| Intel Pentium III Mobile 1200MHz  | 262                                     | 2289                      | NA                              | NA             |
| Intel Pentium J2850 @ 2.41GHz     | 1803                                    | 1323                      | NA                              | NA             |
| Intel Pentium J2900 @ 2.41GHz     | 2026                                    | 1238                      | NA                              | NA             |
| Intel Pentium J3710 @ 1.60GHz     | 2066                                    | 1226                      | NA                              | NA             |
| Intel Pentium J4205 @ 1.50GHz     | 2424                                    | 1086                      | NA                              | NA             |
| Intel Pentium M 1.10GHz           | 296                                     | 2236                      | NA                              | NA             |
| Intel Pentium M 1.20GHz           | 298                                     | 2234                      | NA                              | NA             |
| Intel Pentium M 1.30GHz           | 301                                     | 2230                      | NA                              | NA             |
| Intel Pentium M 1.40GHz           | 358                                     | 2163                      | NA                              | NA             |
| Intel Pentium M 1.50GHz           | 366                                     | 2153                      | NA                              | NA             |
| Intel Pentium M 1.60GHz           | 367                                     | 2150                      | NA                              | NA             |
| Intel Pentium M 1.70GHz           | 413                                     | 2090                      | NA                              | NA             |
| Intel Pentium M 1.73GHz           | 417                                     | 2084                      | NA                              | NA             |
| Intel Pentium M 1.80GHz           | 404                                     | 2099                      | NA                              | NA             |
| Intel Pentium M 1.86GHz           | 440                                     | 2066                      | NA                              | NA             |
| Intel Pentium M 2.00GHz           | 465                                     | 2038                      | NA                              | NA             |

| Intel Pentium M 2.10GHz        | 521                                     | 1988                      | NA                              | NA             |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Pentium M 2.13GHz        | 507                                     | 2002                      | NA                              | NA             |
| Intel Pentium M 2.26GHz        | 520                                     | 1989                      | NA                              | NA             |
| Intel Pentium M 756 @ 1.66GHz  | 484                                     | 2024                      | NA                              | NA             |
| Intel Pentium M 900MHz         | 220                                     | 2333                      | NA                              | NA             |
| Intel Pentium M 1000MHz        | 233                                     | 2322                      | NA                              | NA             |
| Intel Pentium M 1100MHz        | 259                                     | 2292                      | NA                              | NA             |
| Intel Pentium M 1200MHz        | 237                                     | 2318                      | NA                              | NA             |
| Intel Pentium M 1300MHz        | 303                                     | 2222                      | NA                              | NA             |
| Intel Pentium M 1400MHz        | 321                                     | 2200                      | NA                              | NA             |
| Intel Pentium M 1500MHz        | 355                                     | 2165                      | NA                              | NA             |
| Intel Pentium M 1600MHz        | 366                                     | 2152                      | NA                              | NA             |
| Intel Pentium M 1700MHz        | 378                                     | 2138                      | NA                              | NA             |
| Intel Pentium N3510 @ 1.99GHz  | 1573                                    | 1443                      | NA                              | NA             |
| Intel Pentium N3520 @ 2.16GHz  | 1806                                    | 1321                      | NA                              | NA             |
| Intel Pentium N3530 @ 2.16GHz  | 1912                                    | 1275                      | NA                              | NA             |
| Intel Pentium N3540 @ 2.16GHz  | 1958                                    | 1257                      | 7.71                            | \$254.13*      |
| Intel Pentium N3700 @ 1.60GHz  | 1890                                    | 1284                      | 7.59                            | \$249.00*      |
| Intel Pentium N3710 @ 1.60GHz  | 1859                                    | 1306                      | NA                              | NA             |
| Intel Pentium N4200 @ 1.10GHz  | 2213                                    | 1171                      | NA                              | NA             |
| Intel Pentium P6000 @ 1.87GHz  | 1250                                    | 1600                      | NA                              | NA             |
| Intel Pentium P6100 @ 2.00GHz  | 1335                                    | 1547                      | 89.60                           | \$14.90*       |
| Intel Pentium P6200 @ 2.13GHz  | 1352                                    | 1535                      | 36.55                           | \$36.99*       |
| Intel Pentium P6300 @ 2.27GHz  | 1384                                    | 1519                      | NA                              | NA             |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Pentium SU2700 @ 1.30GHz | 403                                     | 2102                      | NA                              | NA             |

|                                |      |      |       |           |
|--------------------------------|------|------|-------|-----------|
| Intel Pentium SU4100 @ 1.30GHz | 874  | 1814 | NA    | NA        |
| Intel Pentium T1080 @ 1.73GHz  | 842  | 1832 | NA    | NA        |
| Intel Pentium T2060 @ 1.60GHz  | 674  | 1911 | NA    | NA        |
| Intel Pentium T2080 @ 1.73GHz  | 713  | 1891 | 4.46  | \$159.95* |
| Intel Pentium T2130 @ 1.86GHz  | 715  | 1890 | NA    | NA        |
| Intel Pentium T2310 @ 1.46GHz  | 725  | 1884 | NA    | NA        |
| Intel Pentium T2330 @ 1.60GHz  | 834  | 1842 | NA    | NA        |
| Intel Pentium T2370 @ 1.73GHz  | 843  | 1831 | NA    | NA        |
| Intel Pentium T2390 @ 1.86GHz  | 937  | 1781 | NA    | NA        |
| Intel Pentium T2410 @ 2.00GHz  | 980  | 1748 | NA    | NA        |
| Intel Pentium T3200 @ 2.00GHz  | 1039 | 1712 | 86.62 | \$12.00   |
| Intel Pentium T3400 @ 2.16GHz  | 1115 | 1666 | 79.71 | \$14.00   |
| Intel Pentium T4200 @ 2.00GHz  | 1151 | 1650 | 95.98 | \$12.00   |
| Intel Pentium T4300 @ 2.10GHz  | 1245 | 1602 | NA    | NA        |
| Intel Pentium T4400 @ 2.20GHz  | 1288 | 1576 | NA    | NA        |
| Intel Pentium T4500 @ 2.30GHz  | 1345 | 1540 | NA    | NA        |
| Intel Pentium U5400 @ 1.20GHz  | 858  | 1824 | NA    | NA        |
| Intel Pentium U5600 @ 1.33GHz  | 977  | 1749 | NA    | NA        |
| Intel T1200 @ 1.50GHz          | 435  | 2072 | NA    | NA        |
| Intel T1400 @ 1.73GHz          | 935  | 1783 | NA    | NA        |
| Intel T1500 @ 1.86GHz          | 965  | 1759 | NA    | NA        |
| Intel T2050 @ 2.00GHz          | 959  | 1767 | NA    | NA        |
| Intel Xeon 2.00GHz             | 233  | 2321 | NA    | NA        |
| Intel XEON 2.20GHz             | 252  | 2300 | NA    | NA        |
| Intel Xeon 2.40GHz             | 276  | 2273 | 30.35 | \$9.10*   |
| Intel Xeon 2.66GHz             | 435  | 2071 | NA    | NA        |
| Intel Xeon 2.80GHz             | 400  | 2113 | NA    | NA        |

| Intel Xeon 3.00GHz          | 391                                     | 2124                      | NA                              | NA             |
|-----------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Xeon 3.06GHz          | 491                                     | 2013                      | NA                              | NA             |
| Intel Xeon 3.20GHz          | 471                                     | 2036                      | NA                              | NA             |
| Intel Xeon 3.40GHz          | 478                                     | 2028                      | NA                              | NA             |
| Intel Xeon 3.60GHz          | 500                                     | 2007                      | 0.59                            | \$851.00*      |
| Intel Xeon 3.73GHz          | 1041                                    | 1708                      | NA                              | NA             |
| Intel Xeon 3.80GHz          | 604                                     | 1943                      | 0.71                            | \$851.00*      |
| Intel Xeon 1500MHz          | 193                                     | 2357                      | NA                              | NA             |
| Intel Xeon 3040 @ 1.86GHz   | 1281                                    | 1579                      | 36.62                           | \$34.99        |
| Intel Xeon 3050 @ 2.13GHz   | 1311                                    | 1554                      | 37.47                           | \$35.00        |
| Intel Xeon 3060 @ 2.40GHz   | 1493                                    | 1471                      | 34.75                           | \$42.99        |
| Intel Xeon 3065 @ 2.33GHz   | 1504                                    | 1465                      | 39.60                           | \$38.00*       |
| Intel Xeon 3070 @ 2.66GHz   | 1754                                    | 1348                      | 4.29                            | \$408.95*      |
| Intel Xeon 3075 @ 2.66GHz   | 1840                                    | 1313                      | 5.26                            | \$349.95*      |
| Intel Xeon 3085 @ 3.00GHz   | 1801                                    | 1326                      | NA                              | NA             |
| Intel Xeon 5110 @ 1.60GHz   | 1079                                    | 1693                      | 54.02                           | \$19.99        |
| Intel Xeon 5120 @ 1.86GHz   | 1237                                    | 1606                      | 19.80                           | \$62.50        |
| Intel Xeon 5130 @ 2.00GHz   | 1391                                    | 1517                      | 69.62                           | \$19.99        |
| Intel Xeon 5133 @ 2.20GHz   | 1598                                    | 1428                      | NA                              | NA             |
| Intel Xeon 5140 @ 2.33GHz   | 1655                                    | 1404                      | 110.43                          | \$14.99        |
| Intel Xeon 5148 @ 2.33GHz   | 1590                                    | 1432                      | 45.46                           | \$35.00        |
| CPU Name                    | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Xeon 5150 @ 2.66GHz   | 1746                                    | 1352                      | 109.23                          | \$15.99        |
| Intel Xeon 5160 @ 3.00GHz   | 1981                                    | 1250                      | 123.90                          | \$15.99        |
| Intel Xeon D-1518 @ 2.20GHz | 4700                                    | 546                       | NA                              | NA             |
| Intel Xeon D-1520 @ 2.20GHz | 6396                                    | 362                       | NA                              | NA             |

|                                  |       |      |       |           |
|----------------------------------|-------|------|-------|-----------|
| Intel Xeon D-1521 @ 2.40GHz      | 6980  | 318  | NA    | NA        |
| Intel Xeon D-1528 @ 1.90GHz      | 8612  | 219  | NA    | NA        |
| Intel Xeon D-1540 @ 2.00GHz      | 10573 | 104  | NA    | NA        |
| Intel Xeon D-1541 @ 2.10GHz      | 11333 | 92   | NA    | NA        |
| Intel Xeon D-1587 @ 1.70GHz      | 13489 | 68   | NA    | NA        |
| Intel Xeon E3-1220 @ 3.10GHz     | 6015  | 388  | 27.63 | \$217.70  |
| Intel Xeon E3-1220 V2 @ 3.10GHz  | 6538  | 350  | 24.80 | \$263.70  |
| Intel Xeon E3-1220 v3 @ 3.10GHz  | 6570  | 344  | 29.45 | \$223.12  |
| Intel Xeon E3-1220 v5 @ 3.00GHz  | 7355  | 290  | NA    | NA        |
| Intel Xeon E3-1220L @ 2.20GHz    | 3563  | 764  | NA    | NA        |
| Intel Xeon E3-1220L V2 @ 2.30GHz | 3656  | 742  | NA    | NA        |
| Intel Xeon E3-1220L v3 @ 1.10GHz | 2110  | 1208 | NA    | NA        |
| Intel Xeon E3-1225 @ 3.10GHz     | 5944  | 395  | 25.30 | \$234.99  |
| Intel Xeon E3-1225 V2 @ 3.20GHz  | 6727  | 332  | 13.28 | \$506.59  |
| Intel Xeon E3-1225 v3 @ 3.20GHz  | 7042  | 310  | 24.83 | \$283.60* |
| Intel Xeon E3-1225 v5 @ 3.30GHz  | 7518  | 279  | NA    | NA        |
| Intel Xeon E3-1226 v3 @ 3.30GHz  | 7462  | 283  | 33.17 | \$224.99  |
| Intel Xeon E3-1230 @ 3.20GHz     | 7929  | 255  | 29.19 | \$271.65  |
| Intel Xeon E3-1230 V2 @ 3.30GHz  | 8855  | 207  | 31.35 | \$282.49  |
| Intel Xeon E3-1230 v3 @ 3.30GHz  | 9315  | 178  | 32.23 | \$289.00  |
| Intel Xeon E3-1230 v5 @ 3.40GHz  | 9629  | 152  | NA    | NA        |
| Intel Xeon E3-1230L v3 @ 1.80GHz | 7368  | 289  | NA    | NA        |
| Intel Xeon E3-1231 v3 @ 3.40GHz  | 9624  | 153  | 38.50 | \$250.00  |
| Intel Xeon E3-1235 @ 3.20GHz     | 7764  | 262  | 13.80 | \$562.59  |
| Intel Xeon E3-1240 @ 3.30GHz     | 7997  | 250  | 38.26 | \$209.00  |
| Intel Xeon E3-1240 V2 @ 3.40GHz  | 9260  | 183  | 20.57 | \$450.18  |
| Intel Xeon E3-1240 v3 @ 3.40GHz  | 9712  | 149  | 30.79 | \$315.40* |

| Intel Xeon E3-1240 v5 @ 3.50GHz  | 10369                                   | 113                       | NA                              | NA             |
|----------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Xeon E3-1240L v3 @ 2.00GHz | 7507                                    | 280                       | NA                              | NA             |
| Intel Xeon E3-1241 v3 @ 3.50GHz  | 9994                                    | 132                       | 34.70                           | \$287.99       |
| Intel Xeon E3-1245 @ 3.30GHz     | 8075                                    | 244                       | 26.45                           | \$305.31       |
| Intel Xeon E3-1245 V2 @ 3.40GHz  | 9073                                    | 193                       | 14.93                           | \$607.59       |
| Intel Xeon E3-1245 v3 @ 3.40GHz  | 9538                                    | 159                       | 26.12                           | \$365.18       |
| Intel Xeon E3-1245 v5 @ 3.50GHz  | 10385                                   | 110                       | NA                              | NA             |
| Intel Xeon E3-1246 v3 @ 3.50GHz  | 10043                                   | 128                       | 34.14                           | \$294.14       |
| Intel Xeon E3-1260L @ 2.40GHz    | 6534                                    | 351                       | 11.34                           | \$576.10*      |
| Intel Xeon E3-1260L v5 @ 2.90GHz | 10067                                   | 126                       | NA                              | NA             |
| Intel Xeon E3-1265L @ 2.40GHz    | 6054                                    | 386                       | 8.44                            | \$717.75*      |
| Intel Xeon E3-1265L V2 @ 2.50GHz | 7735                                    | 265                       | 10.56                           | \$732.58*      |
| Intel Xeon E3-1265L v3 @ 2.50GHz | 8691                                    | 213                       | 23.66                           | \$367.30       |
| Intel Xeon E3-1268L v3 @ 2.30GHz | 7850                                    | 258                       | NA                              | NA             |
| Intel Xeon E3-1270 @ 3.40GHz     | 8276                                    | 237                       | 22.50                           | \$367.87       |
| Intel Xeon E3-1270 V2 @ 3.50GHz  | 9464                                    | 165                       | 19.04                           | \$497.01       |
| Intel Xeon E3-1270 v3 @ 3.50GHz  | 9792                                    | 143                       | 15.11                           | \$648.19*      |
| Intel Xeon E3-1270 v5 @ 3.60GHz  | 10025                                   | 129                       | 27.85                           | \$359.95       |
| CPU Name                         | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Xeon E3-1271 v3 @ 3.60GHz  | 9975                                    | 134                       | 29.08                           | \$342.99       |
| Intel Xeon E3-1275 @ 3.40GHz     | 8349                                    | 233                       | 28.79                           | \$290.00       |
| Intel Xeon E3-1275 V2 @ 3.50GHz  | 9327                                    | 174                       | 22.42                           | \$416.00*      |
| Intel Xeon E3-1275 v3 @ 3.50GHz  | 9828                                    | 141                       | 22.91                           | \$428.99*      |
| Intel Xeon E3-1275 v5 @ 3.60GHz  | 10254                                   | 117                       | NA                              | NA             |
| Intel Xeon E3-1275L v3 @ 2.70GHz | 8628                                    | 218                       | NA                              | NA             |
| Intel Xeon E3-1276 v3 @ 3.60GHz  | 10251                                   | 119                       | 28.48                           | \$359.99       |

|                                  |       |     |       |            |
|----------------------------------|-------|-----|-------|------------|
| Intel Xeon E3-1280 @ 3.50GHz     | 8473  | 229 | 8.05  | \$1,052.72 |
| Intel Xeon E3-1280 V2 @ 3.60GHz  | 9783  | 144 | 15.17 | \$644.99*  |
| Intel Xeon E3-1280 v3 @ 3.60GHz  | 9721  | 148 | 12.14 | \$800.49*  |
| Intel Xeon E3-1280 v5 @ 3.70GHz  | 10502 | 105 | NA    | NA         |
| Intel Xeon E3-1281 v3 @ 3.70GHz  | 10081 | 125 | 22.16 | \$455.00*  |
| Intel Xeon E3-1285 v3 @ 3.60GHz  | 10252 | 118 | NA    | NA         |
| Intel Xeon E3-1285L v3 @ 3.10GHz | 10305 | 115 | NA    | NA         |
| Intel Xeon E3-1285L v4 @ 3.40GHz | 11170 | 97  | NA    | NA         |
| Intel Xeon E3-1286 v3 @ 3.70GHz  | 9388  | 172 | 11.19 | \$839.00*  |
| Intel Xeon E3-1290 @ 3.60GHz     | 8704  | 212 | 9.84  | \$885.00*  |
| Intel Xeon E3-1290 V2 @ 3.70GHz  | 9925  | 136 | 11.22 | \$885.00*  |
| Intel Xeon E3-1505M v5 @ 2.80GHz | 8607  | 220 | NA    | NA         |
| Intel Xeon E3-1535M v5 @ 2.90GHz | 9269  | 182 | NA    | NA         |
| Intel Xeon E3-1545M v5 @ 2.90GHz | 10379 | 112 | NA    | NA         |
| Intel Xeon E3-1575M v5 @ 3.00GHz | 10951 | 101 | NA    | NA         |
| Intel Xeon E5-1410 @ 2.80GHz     | 7312  | 295 | NA    | NA         |
| Intel Xeon E5-1410 v2 @ 2.80GHz  | 6822  | 325 | NA    | NA         |
| Intel Xeon E5-1603 @ 2.80GHz     | 5457  | 451 | 33.08 | \$164.99*  |
| Intel Xeon E5-1603 v3 @ 2.80GHz  | 5922  | 397 | NA    | NA         |
| Intel Xeon E5-1607 @ 3.00GHz     | 5730  | 418 | NA    | NA         |
| Intel Xeon E5-1607 v2 @ 3.00GHz  | 5951  | 394 | 19.02 | \$313.00*  |
| Intel Xeon E5-1607 v3 @ 3.10GHz  | 6736  | 331 | NA    | NA         |
| Intel Xeon E5-1607 v4 @ 3.10GHz  | 7434  | 286 | NA    | NA         |
| Intel Xeon E5-1620 @ 3.60GHz     | 9094  | 191 | 49.72 | \$182.92   |
| Intel Xeon E5-1620 v2 @ 3.70GHz  | 9464  | 164 | 28.51 | \$331.93   |
| Intel Xeon E5-1620 v3 @ 3.50GHz  | 9692  | 150 | 31.47 | \$307.99   |
| Intel Xeon E5-1620 v4 @ 3.50GHz  | 9961  | 135 | NA    | NA         |

| Intel Xeon E5-1630 v3 @ 3.70GHz  | 10217                                   | 121                       | 23.06                           | \$443.09       |
|----------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Xeon E5-1630 v4 @ 3.70GHz  | 10322                                   | 114                       | NA                              | NA             |
| Intel Xeon E5-1650 @ 3.20GHz     | 11791                                   | 88                        | 81.32                           | \$145.00       |
| Intel Xeon E5-1650 v2 @ 3.50GHz  | 12542                                   | 82                        | 17.73                           | \$707.22       |
| Intel Xeon E5-1650 v3 @ 3.50GHz  | 13479                                   | 69                        | 20.71                           | \$650.86       |
| Intel Xeon E5-1650 v4 @ 3.60GHz  | 14353                                   | 55                        | NA                              | NA             |
| Intel Xeon E5-1660 @ 3.30GHz     | 12587                                   | 81                        | 11.40                           | \$1,104.00*    |
| Intel Xeon E5-1660 v2 @ 3.70GHz  | 13735                                   | 65                        | 7.59                            | \$1,808.95*    |
| Intel Xeon E5-1660 v3 @ 3.00GHz  | 14141                                   | 58                        | 11.79                           | \$1,199.69*    |
| Intel Xeon E5-1660 v4 @ 3.20GHz  | 15588                                   | 46                        | NA                              | NA             |
| Intel Xeon E5-1680 v2 @ 3.00GHz  | 16990                                   | 28                        | NA                              | NA             |
| Intel Xeon E5-1680 v3 @ 3.20GHz  | 16694                                   | 30                        | NA                              | NA             |
| Intel Xeon E5-1680 v4 @ 3.40GHz  | 17060                                   | 27                        | NA                              | NA             |
| Intel Xeon E5-1681 v3 @ 2.90GHz  | 18417                                   | 21                        | NA                              | NA             |
| Intel Xeon E5-2403 @ 1.80GHz     | 3489                                    | 786                       | 15.17                           | \$230.00       |
| CPU Name                         | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Xeon E5-2403 v2 @ 1.80GHz  | 1797                                    | 1330                      | 8.06                            | \$222.84*      |
| Intel Xeon E5-2407 @ 2.20GHz     | 3795                                    | 715                       | 12.56                           | \$302.33       |
| Intel Xeon E5-2407 v2 @ 2.40GHz  | 4677                                    | 552                       | 10.10                           | \$462.90*      |
| Intel Xeon E5-2418L @ 2.00GHz    | 5202                                    | 481                       | NA                              | NA             |
| Intel Xeon E5-2420 @ 1.90GHz     | 7139                                    | 302                       | 17.24                           | \$414.25       |
| Intel Xeon E5-2420 v2 @ 2.20GHz  | 8593                                    | 221                       | 19.45                           | \$441.88*      |
| Intel Xeon E5-2430 @ 2.20GHz     | 6878                                    | 322                       | 19.88                           | \$346.00       |
| Intel Xeon E5-2430 v2 @ 2.50GHz  | 8324                                    | 234                       | 13.27                           | \$627.49*      |
| Intel Xeon E5-2430L v2 @ 2.40GHz | 6627                                    | 339                       | NA                              | NA             |
| Intel Xeon E5-2440 @ 2.40GHz     | 9319                                    | 176                       | 16.15                           | \$577.01       |

|                                  |       |     |        |             |
|----------------------------------|-------|-----|--------|-------------|
| Intel Xeon E5-2440 v2 @ 1.90GHz  | 9425  | 166 | 11.25  | \$837.99*   |
| Intel Xeon E5-2450 @ 2.10GHz     | 10186 | 122 | 20.23  | \$503.50    |
| Intel Xeon E5-2470 @ 2.30GHz     | 11149 | 98  | 7.53   | \$1,479.99* |
| Intel Xeon E5-2603 @ 1.80GHz     | 3505  | 780 | 15.38  | \$227.83    |
| Intel Xeon E5-2603 v2 @ 1.80GHz  | 3687  | 741 | 9.93   | \$371.19    |
| Intel Xeon E5-2603 v3 @ 1.60GHz  | 5031  | 501 | 26.62  | \$189.00    |
| Intel Xeon E5-2603 v4 @ 1.70GHz  | 5247  | 476 | NA     | NA          |
| Intel Xeon E5-2609 @ 2.40GHz     | 4591  | 567 | 114.82 | \$39.99     |
| Intel Xeon E5-2609 v2 @ 2.50GHz  | 5010  | 505 | 11.96  | \$419.01    |
| Intel Xeon E5-2609 v3 @ 1.90GHz  | 5896  | 401 | 19.72  | \$299.00    |
| Intel Xeon E5-2620 @ 2.00GHz     | 7965  | 252 | 43.29  | \$184.00    |
| Intel Xeon E5-2620 v2 @ 2.10GHz  | 8677  | 214 | 19.45  | \$446.05    |
| Intel Xeon E5-2620 v3 @ 2.40GHz  | 9986  | 133 | 24.97  | \$400.00    |
| Intel Xeon E5-2620 v4 @ 2.10GHz  | 11286 | 93  | NA     | NA          |
| Intel Xeon E5-2623 v3 @ 3.00GHz  | 9097  | 190 | 16.95  | \$536.69    |
| Intel Xeon E5-2623 v4 @ 2.60GHz  | 8302  | 235 | 17.36  | \$478.38    |
| Intel Xeon E5-2628L v2 @ 1.90GHz | 9405  | 169 | NA     | NA          |
| Intel Xeon E5-2628L v3 @ 2.00GHz | 12844 | 77  | NA     | NA          |
| Intel Xeon E5-2629 v3 @ 2.40GHz  | 11446 | 91  | NA     | NA          |
| Intel Xeon E5-2630 @ 2.30GHz     | 8915  | 204 | 21.13  | \$422.01    |
| Intel Xeon E5-2630 v2 @ 2.60GHz  | 10440 | 107 | 16.15  | \$646.50    |
| Intel Xeon E5-2630 v3 @ 2.40GHz  | 12778 | 78  | 20.12  | \$635.00    |
| Intel Xeon E5-2630 v4 @ 2.20GHz  | 14357 | 54  | NA     | NA          |
| Intel Xeon E5-2630L @ 2.00GHz    | 7868  | 256 | NA     | NA          |
| Intel Xeon E5-2630L v3 @ 1.80GHz | 11201 | 94  | NA     | NA          |
| Intel Xeon E5-2637 v2 @ 3.50GHz  | 9423  | 167 | 8.65   | \$1,089.70  |
| Intel Xeon E5-2637 v3 @ 3.50GHz  | 10278 | 116 | 9.59   | \$1,071.99* |

| Intel Xeon E5-2637 v4 @ 3.50GHz  | 9665                                    | 151                       | 8.31                            | \$1,163.28     |
|----------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Xeon E5-2640 @ 2.50GHz     | 9737                                    | 147                       | 35.31                           | \$275.80       |
| Intel Xeon E5-2640 v2 @ 2.00GHz  | 9914                                    | 137                       | 11.75                           | \$844.04       |
| Intel Xeon E5-2640 v3 @ 2.60GHz  | 14094                                   | 59                        | 14.40                           | \$978.45       |
| Intel Xeon E5-2640 v4 @ 2.40GHz  | 15603                                   | 45                        | NA                              | NA             |
| Intel Xeon E5-2643 @ 3.30GHz     | 8478                                    | 228                       | 15.42                           | \$550.00       |
| Intel Xeon E5-2643 v2 @ 3.50GHz  | 11735                                   | 89                        | 6.99                            | \$1,679.68     |
| Intel Xeon E5-2643 v3 @ 3.40GHz  | 13876                                   | 61                        | 8.62                            | \$1,609.00*    |
| Intel Xeon E5-2643 v4 @ 3.40GHz  | 14648                                   | 51                        | NA                              | NA             |
| Intel Xeon E5-2648L v3 @ 1.80GHz | 12332                                   | 84                        | NA                              | NA             |
| Intel Xeon E5-2650 @ 2.00GHz     | 10420                                   | 108                       | 58.87                           | \$177.01       |
| Intel Xeon E5-2650 v2 @ 2.60GHz  | 13089                                   | 72                        | 11.09                           | \$1,180.00     |
| CPU Name                         | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Xeon E5-2650 v3 @ 2.30GHz  | 15106                                   | 49                        | 15.49                           | \$975.00       |
| Intel Xeon E5-2650 v4 @ 2.20GHz  | 15939                                   | 43                        | NA                              | NA             |
| Intel Xeon E5-2650L @ 1.80GHz    | 8676                                    | 215                       | NA                              | NA             |
| Intel Xeon E5-2650L v3 @ 1.80GHz | 13132                                   | 71                        | NA                              | NA             |
| Intel Xeon E5-2651 v2 @ 1.80GHz  | 11176                                   | 96                        | NA                              | NA             |
| Intel Xeon E5-2658 @ 2.10GHz     | 9484                                    | 162                       | 6.49                            | \$1,462.00*    |
| Intel Xeon E5-2658 v2 @ 2.40GHz  | 13875                                   | 62                        | NA                              | NA             |
| Intel Xeon E5-2658 v3 @ 2.20GHz  | 15700                                   | 44                        | NA                              | NA             |
| Intel Xeon E5-2660 @ 2.20GHz     | 11453                                   | 90                        | 87.19                           | \$131.35       |
| Intel Xeon E5-2660 v2 @ 2.20GHz  | 13354                                   | 70                        | 12.69                           | \$1,052.34     |
| Intel Xeon E5-2660 v3 @ 2.60GHz  | 16161                                   | 39                        | 12.43                           | \$1,300.00     |
| Intel Xeon E5-2663 v3 @ 2.80GHz  | 13802                                   | 64                        | NA                              | NA             |
| Intel Xeon E5-2665 @ 2.40GHz     | 12084                                   | 85                        | 83.34                           | \$145.01       |

|                                  |       |     |       |             |
|----------------------------------|-------|-----|-------|-------------|
| Intel Xeon E5-2667 @ 2.90GHz     | 10380 | 111 | 9.53  | \$1,089.70  |
| Intel Xeon E5-2667 v2 @ 3.30GHz  | 16415 | 36  | 7.63  | \$2,151.70  |
| Intel Xeon E5-2667 v3 @ 3.20GHz  | 16125 | 40  | 7.29  | \$2,210.70  |
| Intel Xeon E5-2670 @ 2.60GHz     | 12468 | 83  | 59.21 | \$210.59    |
| Intel Xeon E5-2670 v2 @ 2.50GHz  | 14975 | 50  | 9.49  | \$1,577.26  |
| Intel Xeon E5-2670 v3 @ 2.30GHz  | 16549 | 34  | 10.06 | \$1,645.38  |
| Intel Xeon E5-2673 v2 @ 3.30GHz  | 16320 | 38  | NA    | NA          |
| Intel Xeon E5-2673 v3 @ 2.40GHz  | 16921 | 29  | NA    | NA          |
| Intel Xeon E5-2673 v4 @ 2.30GHz  | 24201 | 2   | NA    | NA          |
| Intel Xeon E5-2675 v3 @ 1.80GHz  | 15443 | 48  | NA    | NA          |
| Intel Xeon E5-2676 v3 @ 2.40GHz  | 17769 | 24  | NA    | NA          |
| Intel Xeon E5-2678 v3 @ 2.50GHz  | 16618 | 33  | NA    | NA          |
| Intel Xeon E5-2679 v4 @ 2.50GHz  | 25236 | 1   | 9.34  | \$2,702.00* |
| Intel Xeon E5-2680 @ 2.70GHz     | 13059 | 73  | 35.67 | \$366.13    |
| Intel Xeon E5-2680 v2 @ 2.80GHz  | 16341 | 37  | 19.23 | \$850.00    |
| Intel Xeon E5-2680 v3 @ 2.50GHz  | 18833 | 20  | 10.95 | \$1,719.99  |
| Intel Xeon E5-2680 v4 @ 2.40GHz  | 20078 | 14  | NA    | NA          |
| Intel Xeon E5-2683 v3 @ 2.00GHz  | 17934 | 22  | 9.03  | \$1,984.99* |
| Intel Xeon E5-2685 v3 @ 2.60GHz  | 14154 | 57  | NA    | NA          |
| Intel Xeon E5-2686 v3 @ 2.00GHz  | 19974 | 17  | NA    | NA          |
| Intel Xeon E5-2687W @ 3.10GHz    | 14416 | 52  | 6.58  | \$2,191.84  |
| Intel Xeon E5-2687W v2 @ 3.40GHz | 16633 | 32  | 6.80  | \$2,445.54  |
| Intel Xeon E5-2687W v3 @ 3.10GHz | 17795 | 23  | 8.16  | \$2,179.99  |
| Intel Xeon E5-2687W v4 @ 3.00GHz | 20458 | 13  | NA    | NA          |
| Intel Xeon E5-2689 @ 2.60GHz     | 13869 | 63  | NA    | NA          |
| Intel Xeon E5-2689 v4 @ 3.10GHz  | 19708 | 18  | NA    | NA          |
| Intel Xeon E5-2690 @ 2.90GHz     | 14315 | 56  | 33.53 | \$426.94    |

| Intel Xeon E5-2690 v2 @ 3.00GHz | 16534                                   | 35                        | 5.84                            | \$2,831.43     |
|---------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Xeon E5-2690 v3 @ 2.60GHz | 19602                                   | 19                        | 10.27                           | \$1,909.00     |
| Intel Xeon E5-2690 v4 @ 2.60GHz | 22619                                   | 5                         | 10.82                           | \$2,090.00*    |
| Intel Xeon E5-2692 v2 @ 2.20GHz | 16018                                   | 41                        | NA                              | NA             |
| Intel Xeon E5-2695 v2 @ 2.40GHz | 15502                                   | 47                        | 6.33                            | \$2,448.49*    |
| Intel Xeon E5-2695 v3 @ 2.30GHz | 20742                                   | 12                        | 8.43                            | \$2,460.33     |
| Intel Xeon E5-2695 v4 @ 2.10GHz | 20043                                   | 15                        | 7.61                            | \$2,633.73     |
| Intel Xeon E5-2696 v2 @ 2.50GHz | 16681                                   | 31                        | NA                              | NA             |
| Intel Xeon E5-2696 v3 @ 2.30GHz | 22743                                   | 4                         | 9.10                            | \$2,498.00*    |
| CPU Name                        | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Xeon E5-2696 v4 @ 2.20GHz | 21954                                   | 8                         | NA                              | NA             |
| Intel Xeon E5-2697 v2 @ 2.70GHz | 17356                                   | 26                        | 6.55                            | \$2,649.99     |
| Intel Xeon E5-2697 v3 @ 2.60GHz | 21652                                   | 10                        | 10.29                           | \$2,105.00     |
| Intel Xeon E5-2697 v4 @ 2.30GHz | 23070                                   | 3                         | 8.26                            | \$2,792.61     |
| Intel Xeon E5-2698 v3 @ 2.30GHz | 21670                                   | 9                         | 8.15                            | \$2,660.00*    |
| Intel Xeon E5-2698 v4 @ 2.20GHz | 21957                                   | 7                         | 6.81                            | \$3,226.00*    |
| Intel Xeon E5-2699 v3 @ 2.30GHz | 22520                                   | 6                         | 6.34                            | \$3,550.00*    |
| Intel Xeon E5-2699 v4 @ 2.20GHz | 21556                                   | 11                        | 4.59                            | \$4,694.18     |
| Intel Xeon E5-4603 @ 2.00GHz    | 5014                                    | 503                       | 7.04                            | \$712.23*      |
| Intel Xeon E5-4650 @ 2.70GHz    | 11960                                   | 87                        | 3.07                            | \$3,899.99*    |
| Intel Xeon E3110 @ 3.00GHz      | 2215                                    | 1169                      | 67.16                           | \$32.99        |
| Intel Xeon E3113 @ 3.00GHz      | 2427                                    | 1083                      | NA                              | NA             |
| Intel Xeon E3120 @ 3.16GHz      | 2241                                    | 1153                      | NA                              | NA             |
| Intel Xeon E5205 @ 1.86GHz      | 1401                                    | 1511                      | 127.52                          | \$10.99        |
| Intel Xeon E5240 @ 3.00GHz      | 2424                                    | 1085                      | NA                              | NA             |
| Intel Xeon E5310 @ 1.60GHz      | 2264                                    | 1143                      | 45.30                           | \$50.00        |

|                            |      |      |        |           |
|----------------------------|------|------|--------|-----------|
| Intel Xeon E5320 @ 1.86GHz | 2299 | 1129 | 27.87  | \$82.50*  |
| Intel Xeon E5335 @ 2.00GHz | 2513 | 1054 | 22.34  | \$112.50  |
| Intel Xeon E5345 @ 2.33GHz | 2937 | 936  | 4.21   | \$697.00  |
| Intel Xeon E5405 @ 2.00GHz | 2906 | 945  | 97.05  | \$29.95   |
| Intel Xeon E5410 @ 2.33GHz | 3279 | 836  | 15.84  | \$207.01  |
| Intel Xeon E5420 @ 2.50GHz | 3543 | 768  | 95.79  | \$36.99   |
| Intel Xeon E5430 @ 2.66GHz | 3848 | 699  | 64.21  | \$59.94*  |
| Intel Xeon E5440 @ 2.83GHz | 4020 | 664  | 4.02   | \$998.99  |
| Intel Xeon E5450 @ 3.00GHz | 4281 | 621  | 47.84  | \$89.50   |
| Intel Xeon E5462 @ 2.80GHz | 4001 | 667  | 19.15  | \$208.95* |
| Intel Xeon E5472 @ 3.00GHz | 4316 | 614  | 20.12  | \$214.53  |
| Intel Xeon E5502 @ 1.87GHz | 1381 | 1522 | 32.89  | \$42.00*  |
| Intel Xeon E5503 @ 2.00GHz | 1360 | 1531 | 4.69   | \$290.00* |
| Intel Xeon E5504 @ 2.00GHz | 2720 | 997  | 45.34  | \$60.00   |
| Intel Xeon E5506 @ 2.13GHz | 3000 | 918  | 64.19  | \$46.75*  |
| Intel Xeon E5507 @ 2.27GHz | 3185 | 864  | 3.19   | \$998.99  |
| Intel Xeon E5520 @ 2.27GHz | 4453 | 589  | 27.84  | \$159.95* |
| Intel Xeon E5530 @ 2.40GHz | 4605 | 564  | 57.22  | \$80.50*  |
| Intel Xeon E5540 @ 2.53GHz | 4874 | 527  | 216.74 | \$22.49   |
| Intel Xeon E5603 @ 1.60GHz | 2368 | 1104 | 8.28   | \$286.01  |
| Intel Xeon E5606 @ 2.13GHz | 3087 | 888  | 55.15  | \$55.99   |
| Intel Xeon E5607 @ 2.27GHz | 3459 | 797  | 23.39  | \$147.91* |
| Intel Xeon E5620 @ 2.40GHz | 4879 | 525  | 40.33  | \$120.99  |
| Intel Xeon E5630 @ 2.53GHz | 5166 | 486  | 45.13  | \$114.48  |
| Intel Xeon E5640 @ 2.67GHz | 5339 | 467  | 101.70 | \$52.50   |
| Intel Xeon E5645 @ 2.40GHz | 6487 | 354  | 82.12  | \$79.00   |
| Intel Xeon E5649 @ 2.53GHz | 7051 | 309  | 141.07 | \$49.99   |

| Intel Xeon E7320 @ 2.13GHz | 2413                                    | 1090                      | NA                              | NA             |
|----------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Xeon L3110 @ 3.00GHz | 2273                                    | 1141                      | NA                              | NA             |
| Intel Xeon L3360 @ 2.83GHz | 3820                                    | 706                       | 40.26                           | \$94.90*       |
| Intel Xeon L3426 @ 1.87GHz | 3922                                    | 685                       | 8.77                            | \$447.01       |
| Intel Xeon L5238 @ 2.66GHz | 1823                                    | 1318                      | NA                              | NA             |
| Intel Xeon L5240 @ 3.00GHz | 2271                                    | 1142                      | 25.24                           | \$89.99        |
| CPU Name                   | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Xeon L5310 @ 1.60GHz | 2274                                    | 1139                      | 20.22                           | \$112.50       |
| Intel Xeon L5320 @ 1.86GHz | 2507                                    | 1059                      | 19.13                           | \$131.06*      |
| Intel Xeon L5335 @ 2.00GHz | 2756                                    | 989                       | 91.87                           | \$30.00*       |
| Intel Xeon L5408 @ 2.13GHz | 3049                                    | 901                       | NA                              | NA             |
| Intel Xeon L5410 @ 2.33GHz | 3469                                    | 794                       | 103.57                          | \$33.50        |
| Intel Xeon L5420 @ 2.50GHz | 3508                                    | 778                       | 38.99                           | \$89.99        |
| Intel Xeon L5430 @ 2.66GHz | 3823                                    | 705                       | 26.64                           | \$143.55*      |
| Intel Xeon L5506 @ 2.13GHz | 3715                                    | 731                       | 3.72                            | \$998.99       |
| Intel Xeon L5520 @ 2.27GHz | 4377                                    | 599                       | 231.61                          | \$18.90*       |
| Intel Xeon L5530 @ 2.40GHz | 4351                                    | 605                       | NA                              | NA             |
| Intel Xeon L5630 @ 2.13GHz | 4420                                    | 592                       | 9.80                            | \$451.05*      |
| Intel Xeon L5638 @ 2.00GHz | 5695                                    | 422                       | 9.61                            | \$593.00*      |
| Intel Xeon L5639 @ 2.13GHz | 7021                                    | 313                       | NA                              | NA             |
| Intel Xeon L5640 @ 2.27GHz | 6570                                    | 346                       | 69.17                           | \$94.99        |
| Intel Xeon L7455 @ 2.13GHz | 3836                                    | 704                       | NA                              | NA             |
| Intel Xeon MV 3.20GHz      | 683                                     | 1906                      | NA                              | NA             |
| Intel Xeon W3503 @ 2.40GHz | 1780                                    | 1337                      | NA                              | NA             |
| Intel Xeon W3505 @ 2.53GHz | 1855                                    | 1308                      | NA                              | NA             |
| Intel Xeon W3520 @ 2.67GHz | 5066                                    | 497                       | 12.39                           | \$408.95*      |

|                            |      |     |        |             |
|----------------------------|------|-----|--------|-------------|
| Intel Xeon W3530 @ 2.80GHz | 5371 | 464 | 5.38   | \$998.99*   |
| Intel Xeon W3540 @ 2.93GHz | 5484 | 447 | 7.85   | \$698.95*   |
| Intel Xeon W3550 @ 3.07GHz | 5738 | 416 | 24.42  | \$235.00*   |
| Intel Xeon W3565 @ 3.20GHz | 5998 | 390 | 16.62  | \$360.95*   |
| Intel Xeon W3570 @ 3.20GHz | 6195 | 375 | 10.59  | \$584.95*   |
| Intel Xeon W3580 @ 3.33GHz | 6448 | 356 | 5.95   | \$1,083.47* |
| Intel Xeon W3670 @ 3.20GHz | 8428 | 231 | 8.74   | \$964.60*   |
| Intel Xeon W3680 @ 3.33GHz | 9309 | 179 | 8.39   | \$1,108.95* |
| Intel Xeon W3690 @ 3.47GHz | 9501 | 160 | 21.11  | \$450.00    |
| Intel Xeon W5580 @ 3.20GHz | 5836 | 407 | 3.52   | \$1,659.99* |
| Intel Xeon W5590 @ 3.33GHz | 6164 | 377 | 22.83  | \$269.99*   |
| Intel Xeon X3210 @ 2.13GHz | 2800 | 974 | 22.72  | \$123.25*   |
| Intel Xeon X3220 @ 2.40GHz | 3126 | 882 | 111.87 | \$27.95     |
| Intel Xeon X3230 @ 2.66GHz | 3469 | 793 | 11.17  | \$310.51*   |
| Intel Xeon X3320 @ 2.50GHz | 3394 | 814 | 9.98   | \$339.99*   |
| Intel Xeon X3323 @ 2.50GHz | 3239 | 845 | 45.63  | \$70.99*    |
| Intel Xeon X3330 @ 2.66GHz | 3613 | 754 | 38.45  | \$94.00*    |
| Intel Xeon X3350 @ 2.66GHz | 3915 | 689 | 43.51  | \$89.99*    |
| Intel Xeon X3353 @ 2.66GHz | 3862 | 696 | 52.56  | \$73.50     |
| Intel Xeon X3360 @ 2.83GHz | 4065 | 657 | 64.55  | \$62.99     |
| Intel Xeon X3363 @ 2.83GHz | 4138 | 645 | 51.73  | \$79.99     |
| Intel Xeon X3370 @ 3.00GHz | 4370 | 601 | 11.96  | \$365.50*   |
| Intel Xeon X3380 @ 3.16GHz | 4697 | 547 | NA     | NA          |
| Intel Xeon X3430 @ 2.40GHz | 3372 | 817 | 14.50  | \$232.63*   |
| Intel Xeon X3440 @ 2.53GHz | 4494 | 583 | 8.83   | \$508.95*   |
| Intel Xeon X3450 @ 2.67GHz | 4975 | 508 | 28.83  | \$172.54*   |
| Intel Xeon X3460 @ 2.80GHz | 5143 | 489 | 68.13  | \$75.50*    |

| Intel Xeon X3470 @ 2.93GHz | 5184                                    | 483                       | 10.17                           | \$509.95*      |
|----------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Intel Xeon X3480 @ 3.07GHz | 5968                                    | 393                       | NA                              | NA             |
| Intel Xeon X5260 @ 3.33GHz | 2497                                    | 1064                      | 12.01                           | \$207.89*      |
| CPU Name                   | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Intel Xeon X5270 @ 3.50GHz | 2499                                    | 1063                      | NA                              | NA             |
| Intel Xeon X5272 @ 3.40GHz | 2394                                    | 1094                      | 14.51                           | \$165.00*      |
| Intel Xeon X5355 @ 2.66GHz | 3269                                    | 839                       | 38.93                           | \$83.99        |
| Intel Xeon X5365 @ 3.00GHz | 3491                                    | 783                       | 20.34                           | \$171.60*      |
| Intel Xeon X5450 @ 3.00GHz | 4213                                    | 633                       | 115.34                          | \$36.53*       |
| Intel Xeon X5460 @ 3.16GHz | 4469                                    | 586                       | 59.60                           | \$74.99        |
| Intel Xeon X5470 @ 3.33GHz | 4695                                    | 548                       | 17.01                           | \$276.00*      |
| Intel Xeon X5472 @ 3.00GHz | 4127                                    | 649                       | 19.94                           | \$207.00*      |
| Intel Xeon X5482 @ 3.20GHz | 4692                                    | 549                       | 49.40                           | \$94.99        |
| Intel Xeon X5492 @ 3.40GHz | 4890                                    | 519                       | 3.52                            | \$1,391.29*    |
| Intel Xeon X5550 @ 2.67GHz | 5416                                    | 458                       | 87.37                           | \$62.00        |
| Intel Xeon X5560 @ 2.80GHz | 5426                                    | 455                       | 175.35                          | \$30.95        |
| Intel Xeon X5570 @ 2.93GHz | 5705                                    | 421                       | 113.21                          | \$50.40        |
| Intel Xeon X5647 @ 2.93GHz | 6037                                    | 387                       | 9.66                            | \$625.00*      |
| Intel Xeon X5650 @ 2.67GHz | 7585                                    | 275                       | 97.27                           | \$77.99        |
| Intel Xeon X5660 @ 2.80GHz | 7953                                    | 253                       | 113.63                          | \$69.99        |
| Intel Xeon X5667 @ 3.07GHz | 4722                                    | 543                       | 29.52                           | \$160.00*      |
| Intel Xeon X5670 @ 2.93GHz | 8126                                    | 243                       | 74.55                           | \$109.00       |
| Intel Xeon X5672 @ 3.20GHz | 6507                                    | 352                       | 47.13                           | \$138.08*      |
| Intel Xeon X5675 @ 3.07GHz | 8570                                    | 222                       | 49.25                           | \$174.00       |
| Intel Xeon X5677 @ 3.47GHz | 6996                                    | 315                       | 19.99                           | \$350.00       |
| Intel Xeon X5679 @ 3.20GHz | 8652                                    | 216                       | NA                              | NA             |

|                              |      |      |       |          |
|------------------------------|------|------|-------|----------|
| Intel Xeon X5680 @ 3.33GHz   | 8951 | 199  | 48.39 | \$185.00 |
| Intel Xeon X5687 @ 3.60GHz   | 7190 | 297  | 45.22 | \$159.00 |
| Intel Xeon X5690 @ 3.47GHz   | 9168 | 186  | 36.68 | \$249.96 |
| Intel Xeon X5698 @ 4.40GHz   | 4272 | 623  | NA    | NA       |
| Intel Xeon X6550 @ 2.00GHz   | 2977 | 925  | NA    | NA       |
| Mobile AMD Athlon 4          | 314  | 2208 | 3.62  | \$86.99* |
| Mobile AMD Athlon 4 2400+    | 358  | 2162 | NA    | NA       |
| Mobile AMD Athlon 64 2700+   | 398  | 2115 | NA    | NA       |
| Mobile AMD Athlon 64 2800+   | 440  | 2064 | NA    | NA       |
| Mobile AMD Athlon 64 3000+   | 450  | 2052 | NA    | NA       |
| Mobile AMD Athlon 64 3200+   | 441  | 2063 | NA    | NA       |
| Mobile AMD Athlon 64 3400+   | 511  | 1998 | NA    | NA       |
| Mobile AMD Athlon 64 3700+   | 363  | 2158 | NA    | NA       |
| Mobile AMD Athlon 64 4000+   | 614  | 1940 | NA    | NA       |
| Mobile AMD Athlon 1400+      | 266  | 2284 | NA    | NA       |
| Mobile AMD Athlon 2500+      | 370  | 2147 | NA    | NA       |
| Mobile AMD Athlon MP-M 1800+ | 265  | 2285 | NA    | NA       |
| Mobile AMD Athlon MP-M 2000+ | 378  | 2136 | NA    | NA       |
| Mobile AMD Athlon MP-M 2400+ | 295  | 2239 | NA    | NA       |
| Mobile AMD Athlon MP-M 2800+ | 496  | 2009 | NA    | NA       |
| Mobile AMD Athlon XP         | 572  | 1961 | 48.95 | \$11.69* |
| Mobile AMD Athlon XP-M       | 512  | 1996 | NA    | NA       |
| Mobile AMD Athlon XP-M 1400+ | 184  | 2368 | NA    | NA       |
| Mobile AMD Athlon XP-M 1500+ | 261  | 2290 | NA    | NA       |
| Mobile AMD Athlon XP-M 1600+ | 257  | 2293 | NA    | NA       |
| Mobile AMD Athlon XP-M 1700+ | 323  | 2198 | NA    | NA       |
| Mobile AMD Athlon XP-M 1800+ | 312  | 2211 | NA    | NA       |

| CPU Name                          | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
|-----------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Mobile AMD Athlon XP-M 1900+      | 342                                     | 2181                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 2000+      | 300                                     | 2232                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 2200+      | 364                                     | 2157                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 2400+      | 346                                     | 2178                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 2500+      | 351                                     | 2171                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 2600+      | 370                                     | 2146                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 2800+      | 365                                     | 2156                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 3000+      | 365                                     | 2154                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 3100+      | 440                                     | 2065                      | NA                              | NA             |
| Mobile AMD Athlon XP-M 3200+      | 487                                     | 2018                      | NA                              | NA             |
| Mobile AMD Athlon XP-M (LV)       | 508                                     | 2000                      | NA                              | NA             |
| Mobile AMD Athlon XP-M (LV) 1500+ | 288                                     | 2248                      | NA                              | NA             |
| Mobile AMD Athlon XP-M (LV) 1600+ | 296                                     | 2237                      | NA                              | NA             |
| Mobile AMD Athlon XP-M (LV) 2000+ | 335                                     | 2187                      | NA                              | NA             |
| Mobile AMD Athlon XP-M (LV) 2200+ | 373                                     | 2144                      | NA                              | NA             |
| Mobile AMD Athlon XP-M (LV) 2800+ | 475                                     | 2032                      | NA                              | NA             |
| Mobile AMD Athlon XP-M (LV) 3200+ | 505                                     | 2004                      | NA                              | NA             |
| Mobile AMD Sempron 2100+          | 252                                     | 2301                      | NA                              | NA             |
| Mobile AMD Sempron 2600+          | 394                                     | 2122                      | NA                              | NA             |
| Mobile AMD Sempron 2800+          | 354                                     | 2169                      | NA                              | NA             |
| Mobile AMD Sempron 3000+          | 388                                     | 2129                      | NA                              | NA             |
| Mobile AMD Sempron 3100+          | 415                                     | 2087                      | NA                              | NA             |
| Mobile AMD Sempron 3200+          | 354                                     | 2168                      | NA                              | NA             |
| Mobile AMD Sempron 3300+          | 461                                     | 2043                      | NA                              | NA             |
| Mobile AMD Sempron 3400+          | 443                                     | 2062                      | NA                              | NA             |

| Mobile AMD Sempron 3500+           | 410                                     | 2094                      | NA                              | NA             |
|------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| Mobile AMD Sempron 3600+           | 431                                     | 2076                      | NA                              | NA             |
| Mobile AMD Sempron 3800+           | 517                                     | 1992                      | NA                              | NA             |
| Mobile Intel Celeron 1.20GHz       | 170                                     | 2376                      | NA                              | NA             |
| Mobile Intel Celeron 1.50GHz       | 188                                     | 2361                      | NA                              | NA             |
| Mobile Intel Celeron 1.60GHz       | 188                                     | 2362                      | NA                              | NA             |
| Mobile Intel Celeron 1.70GHz       | 181                                     | 2370                      | NA                              | NA             |
| Mobile Intel Celeron 1.80GHz       | 186                                     | 2365                      | NA                              | NA             |
| Mobile Intel Celeron 2.00GHz       | 204                                     | 2349                      | NA                              | NA             |
| Mobile Intel Celeron 2.20GHz       | 226                                     | 2328                      | NA                              | NA             |
| Mobile Intel Celeron 2.40GHz       | 239                                     | 2316                      | NA                              | NA             |
| Mobile Intel Celeron 2.50GHz       | 281                                     | 2264                      | NA                              | NA             |
| Mobile Intel Celeron 1200MHz       | 294                                     | 2240                      | NA                              | NA             |
| Mobile Intel Celeron 1333MHz       | 309                                     | 2216                      | NA                              | NA             |
| Mobile Intel Pentium 4 2.30GHz     | 278                                     | 2271                      | 6.38                            | \$43.56*       |
| Mobile Intel Pentium 4 2.40GHz     | 264                                     | 2287                      | NA                              | NA             |
| Mobile Intel Pentium 4 2.66GHz     | 279                                     | 2268                      | NA                              | NA             |
| Mobile Intel Pentium 4 2.80GHz     | 315                                     | 2206                      | NA                              | NA             |
| Mobile Intel Pentium 4 3.06GHz     | 337                                     | 2185                      | NA                              | NA             |
| Mobile Intel Pentium 4 3.20GHz     | 356                                     | 2164                      | NA                              | NA             |
| Mobile Intel Pentium 4 3.33GHz     | 439                                     | 2067                      | NA                              | NA             |
| Mobile Intel Pentium 4 3.46GHz     | 478                                     | 2029                      | NA                              | NA             |
| Mobile Intel Pentium 4 - M 1.60GHz | 195                                     | 2355                      | NA                              | NA             |
| Mobile Intel Pentium 4 - M 1.70GHz | 177                                     | 2372                      | 0.89                            | \$200.00       |
| CPU Name                           | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| Mobile Intel Pentium 4 - M 1.80GHz | 191                                     | 2359                      | NA                              | NA             |

|                                      |      |      |       |         |
|--------------------------------------|------|------|-------|---------|
| Mobile Intel Pentium 4 - M 1.90GHz   | 232  | 2323 | NA    | NA      |
| Mobile Intel Pentium 4 - M 2.00GHz   | 220  | 2332 | NA    | NA      |
| Mobile Intel Pentium 4 - M 2.20GHz   | 211  | 2343 | NA    | NA      |
| Mobile Intel Pentium 4 - M 2.40GHz   | 213  | 2339 | NA    | NA      |
| Mobile Intel Pentium 4 - M 2.50GHz   | 256  | 2297 | NA    | NA      |
| Mobile Intel Pentium 4 - M 2.60GHz   | 313  | 2209 | NA    | NA      |
| Mobile Intel Pentium III - M 866MHz  | 211  | 2342 | NA    | NA      |
| Mobile Intel Pentium III - M 933MHz  | 200  | 2352 | NA    | NA      |
| Mobile Intel Pentium III - M 1000MHz | 250  | 2305 | NA    | NA      |
| Mobile Intel Pentium III - M 1133MHz | 289  | 2245 | NA    | NA      |
| Mobile Intel Pentium III - M 1200MHz | 263  | 2288 | NA    | NA      |
| Mobile Intel Pentium III - M 1333MHz | 289  | 2246 | NA    | NA      |
| Quad-Core AMD Opteron 1385           | 3517 | 777  | 65.14 | \$54.00 |
| Quad-Core AMD Opteron 1389           | 3046 | 902  | NA    | NA      |
| VIA C3 Ezra                          | 100  | 2401 | NA    | NA      |
| VIA C7 1500MHz                       | 284  | 2259 | NA    | NA      |
| VIA C7-D 1500MHz                     | 287  | 2253 | NA    | NA      |
| VIA C7-D 1800MHz                     | 198  | 2353 | NA    | NA      |
| VIA C7-D 2000MHz                     | 368  | 2149 | NA    | NA      |
| VIA C7-M 1000MHz                     | 164  | 2379 | NA    | NA      |
| VIA C7-M 1200MHz                     | 141  | 2389 | NA    | NA      |
| VIA C7-M 1600MHz                     | 188  | 2363 | NA    | NA      |
| VIA C7-M 6300MHz                     | 222  | 2330 | NA    | NA      |
| VIA Eden 800MHz                      | 155  | 2382 | NA    | NA      |
| VIA Eden X2 U4200 @ 1.0+ GHz         | 478  | 2030 | NA    | NA      |
| VIA Eden X4 C4250 @ 1.2+GHz          | 1147 | 1654 | NA    | NA      |
| VIA Esther 1000MHz                   | 169  | 2377 | NA    | NA      |

| VIA Esther 1300MHz              | 250                                     | 2304                      | NA                              | NA             |
|---------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| VIA Esther 1500MHz              | 219                                     | 2334                      | NA                              | NA             |
| VIA Esther 2000MHz              | 394                                     | 2121                      | NA                              | NA             |
| VIA Nano L1900@1400MHz          | 457                                     | 2047                      | NA                              | NA             |
| VIA Nano L2007@1600MHz          | 381                                     | 2133                      | NA                              | NA             |
| VIA Nano L2100@1800MHz          | 428                                     | 2078                      | NA                              | NA             |
| VIA Nano L2207@1600MHz          | 340                                     | 2182                      | NA                              | NA             |
| VIA Nano L3025@1600MHz          | 517                                     | 1993                      | NA                              | NA             |
| VIA Nano L3050@1800MHz          | 581                                     | 1956                      | NA                              | NA             |
| VIA Nano L3600@2000MHz          | 645                                     | 1923                      | NA                              | NA             |
| VIA Nano U2250 (1.6GHz Capable) | 377                                     | 2139                      | NA                              | NA             |
| VIA Nano U2250@1300+MHz         | 274                                     | 2277                      | NA                              | NA             |
| VIA Nano U2500@1200MHz          | 306                                     | 2219                      | NA                              | NA             |
| VIA Nano U3100 (1.6GHz Capable) | 501                                     | 2006                      | NA                              | NA             |
| VIA Nano U3300@1200MHz          | 409                                     | 2095                      | NA                              | NA             |
| VIA Nano U3500@1000MHz          | 275                                     | 2274                      | NA                              | NA             |
| VIA Nano X2 U4025 @ 1.2 GHz     | 639                                     | 1926                      | NA                              | NA             |
| VIA Nehemiah                    | 155                                     | 2383                      | NA                              | NA             |
| VIA QuadCore C4650@2.0GHz       | 1940                                    | 1265                      | NA                              | NA             |
| VIA QuadCore L4700 @ 1.2+ GHz   | 1363                                    | 1529                      | NA                              | NA             |
| VIA QuadCore U4650 @ 1.0+ GHz   | 1173                                    | 1638                      | NA                              | NA             |
| CPU Name                        | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| VIA Samuel 2                    | 79                                      | 2403                      | NA                              | NA             |

\* - Last price seen from our affiliates.

## Multi CPU Systems

| CPU Name                           | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
|------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| [3-Way] Intel Xeon X7460 @ 2.66GHz | 7672                                    | 198                       | NA                              | NA             |
| [8-Way] Intel Xeon X7560 @ 2.27GHz | 17658                                   | 62                        | 13.80                           | \$1,279.92     |
| [Dual CPU] AMD Athlon 64 FX-72     | 3163                                    | 287                       | NA                              | NA             |
| [Dual CPU] AMD Athlon 64 FX-74     | 2947                                    | 293                       | 2.95                            | \$999.00*      |
| [Dual CPU] AMD Athlon MP 2000+     | 604                                     | 335                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 246         | 1130                                    | 324                       | 5.19                            | \$217.90*      |
| [Dual CPU] AMD Opteron 248         | 1053                                    | 325                       | 43.88                           | \$24.00*       |
| [Dual CPU] AMD Opteron 250         | 1438                                    | 322                       | 59.92                           | \$24.00*       |
| [Dual CPU] AMD Opteron 252         | 1385                                    | 323                       | 10.93                           | \$126.72       |
| [Dual CPU] AMD Opteron 254         | 816                                     | 330                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 256         | 1853                                    | 319                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 270         | 2226                                    | 315                       | 1.89                            | \$1,179.10     |
| [Dual CPU] AMD Opteron 275         | 2133                                    | 317                       | 16.41                           | \$129.98       |
| [Dual CPU] AMD Opteron 280         | 2524                                    | 306                       | 1.58                            | \$1,593.34*    |
| [Dual CPU] AMD Opteron 285         | 2772                                    | 302                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 290         | 2807                                    | 299                       | 10.40                           | \$270.00*      |
| [Dual CPU] AMD Opteron 885         | 2851                                    | 297                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 2212        | 2277                                    | 314                       | 94.88                           | \$24.00        |
| [Dual CPU] AMD Opteron 2214 HE     | 2463                                    | 309                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 2216        | 2485                                    | 308                       | 6.98                            | \$356.00       |

|                                |      |     |               |                    |
|--------------------------------|------|-----|---------------|--------------------|
| [Dual CPU] AMD Opteron 2216 HE | 2593 | 305 | NA            | NA                 |
| [Dual CPU] AMD Opteron 2218    | 2719 | 303 | <b>21.46</b>  | <b>\$126.72</b>    |
| [Dual CPU] AMD Opteron 2218 HE | 2514 | 307 | NA            | NA                 |
| [Dual CPU] AMD Opteron 2220    | 2917 | 294 | <b>58.34</b>  | <b>\$50.00</b>     |
| [Dual CPU] AMD Opteron 2220 SE | 2882 | 296 | NA            | NA                 |
| [Dual CPU] AMD Opteron 2222    | 2948 | 292 | <b>0.89</b>   | <b>\$3,329.96*</b> |
| [Dual CPU] AMD Opteron 2222 SE | 3303 | 285 | <b>117.96</b> | <b>\$28.00*</b>    |
| [Dual CPU] AMD Opteron 2346 HE | 4095 | 276 | NA            | NA                 |
| [Dual CPU] AMD Opteron 2347 HE | 3313 | 284 | <b>7.02</b>   | <b>\$471.66*</b>   |
| [Dual CPU] AMD Opteron 2350    | 4090 | 277 | <b>7.57</b>   | <b>\$539.98*</b>   |
| [Dual CPU] AMD Opteron 2354    | 4566 | 266 | <b>6.94</b>   | <b>\$657.56*</b>   |
| [Dual CPU] AMD Opteron 2356    | 4487 | 268 | <b>32.13</b>  | <b>\$139.66</b>    |
| [Dual CPU] AMD Opteron 2360 SE | 5315 | 252 | <b>85.73</b>  | <b>\$62.00*</b>    |
| [Dual CPU] AMD Opteron 2374 HE | 5161 | 256 | <b>13.58</b>  | <b>\$379.98*</b>   |
| [Dual CPU] AMD Opteron 2376    | 5238 | 254 | <b>15.70</b>  | <b>\$333.60</b>    |
| [Dual CPU] AMD Opteron 2378    | 5559 | 249 | <b>15.53</b>  | <b>\$358.00*</b>   |
| [Dual CPU] AMD Opteron 2380    | 5754 | 241 | <b>239.75</b> | <b>\$24.00</b>     |
| [Dual CPU] AMD Opteron 2384    | 5977 | 236 | <b>3.56</b>   | <b>\$1,680.00*</b> |
| [Dual CPU] AMD Opteron 2387    | 6441 | 226 | NA            | NA                 |
| [Dual CPU] AMD Opteron 2389    | 5703 | 242 | NA            | NA                 |
| [Dual CPU] AMD Opteron 2419    | 5571 | 248 | <b>27.86</b>  | <b>\$199.98*</b>   |
| [Dual CPU] AMD Opteron 2425 HE | 6209 | 230 | NA            | NA                 |
| [Dual CPU] AMD Opteron 2427    | 6044 | 233 | <b>31.76</b>  | <b>\$190.28</b>    |
| [Dual CPU] AMD Opteron 2431    | 6733 | 219 | <b>90.99</b>  | <b>\$74.00</b>     |
| [Dual CPU] AMD Opteron 2435    | 7315 | 206 | <b>30.38</b>  | <b>\$240.80*</b>   |
| [Dual CPU] AMD Opteron 2439 SE | 8093 | 182 | <b>44.97</b>  | <b>\$179.98*</b>   |
| [Dual CPU] AMD Opteron 4122    | 4076 | 278 | <b>7.84</b>   | <b>\$519.90</b>    |

| [Dual CPU] AMD Opteron 4130    | 5828                                    | 239                       | 9.43                            | \$617.90       |
|--------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| [Dual CPU] AMD Opteron 4170 HE | 6254                                    | 229                       | 10.15                           | \$615.90       |
| [Dual CPU] AMD Opteron 4184    | 7848                                    | 191                       | 7.55                            | \$1,039.90     |
| CPU Name                       | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| [Dual CPU] AMD Opteron 4226    | 8088                                    | 183                       | 8.64                            | \$936.14*      |
| [Dual CPU] AMD Opteron 4228 HE | 7986                                    | 186                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 4234    | 9361                                    | 156                       | 15.57                           | \$601.40*      |
| [Dual CPU] AMD Opteron 4276 HE | 9681                                    | 150                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 4280    | 4525                                    | 267                       | 4.96                            | \$912.88*      |
| [Dual CPU] AMD Opteron 4284    | 7833                                    | 193                       | 10.96                           | \$714.60*      |
| [Dual CPU] AMD Opteron 4334    | 9468                                    | 155                       | 23.67                           | \$399.98       |
| [Dual CPU] AMD Opteron 4340    | 10113                                   | 140                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 4376 HE | 10244                                   | 136                       | 8.25                            | \$1,242.00     |
| [Dual CPU] AMD Opteron 4386    | 11888                                   | 109                       | 15.08                           | \$788.24       |
| [Dual CPU] AMD Opteron 6128    | 6959                                    | 215                       | 16.84                           | \$413.34       |
| [Dual CPU] AMD Opteron 6132 HE | 8657                                    | 171                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 6136    | 7255                                    | 208                       | 5.58                            | \$1,299.90*    |
| [Dual CPU] AMD Opteron 6164 HE | 5109                                    | 257                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 6168    | 7741                                    | 197                       | 18.58                           | \$416.60*      |
| [Dual CPU] AMD Opteron 6172    | 7554                                    | 201                       | 17.99                           | \$419.90       |
| [Dual CPU] AMD Opteron 6174    | 8776                                    | 168                       | 30.71                           | \$285.74       |
| [Dual CPU] AMD Opteron 6180 SE | 3114                                    | 288                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 6204    | 7134                                    | 210                       | NA                              | NA             |
| [Dual CPU] AMD Opteron 6212    | 8955                                    | 161                       | 21.37                           | \$419.00       |
| [Dual CPU] AMD Opteron 6220    | 10402                                   | 133                       | 23.79                           | \$437.18*      |
| [Dual CPU] AMD Opteron 6234    | 10504                                   | 129                       | 13.13                           | \$799.98*      |

|                                                |       |     |        |             |
|------------------------------------------------|-------|-----|--------|-------------|
| [Dual CPU] AMD Opteron 6238                    | 11370 | 120 | 5.22   | \$2,176.22* |
| [Dual CPU] AMD Opteron 6272                    | 10047 | 143 | 15.46  | \$650.00    |
| [Dual CPU] AMD Opteron 6274                    | 10682 | 126 | 5.88   | \$1,817.90  |
| [Dual CPU] AMD Opteron 6275                    | 9936  | 146 | NA     | NA          |
| [Dual CPU] AMD Opteron 6276                    | 10728 | 125 | 54.05  | \$198.50    |
| [Dual CPU] AMD Opteron 6284 SE                 | 11985 | 107 | NA     | NA          |
| [Dual CPU] AMD Opteron 6308                    | 7773  | 194 | 6.90   | \$1,126.26* |
| [Dual CPU] AMD Opteron 6320                    | 10489 | 130 | 16.86  | \$622.06    |
| [Dual CPU] AMD Opteron 6328                    | 11810 | 112 | 9.63   | \$1,226.00  |
| [Dual CPU] AMD Opteron 6344                    | 11178 | 121 | 13.63  | \$819.98    |
| [Dual CPU] AMD Opteron 6348                    | 12180 | 103 | 9.93   | \$1,226.00  |
| [Dual CPU] AMD Opteron 6376                    | 10405 | 132 | 7.43   | \$1,399.98  |
| [Dual CPU] AMD Opteron 6378                    | 2905  | 295 | 1.50   | \$1,934.06* |
| [Dual CPU] AMD Opteron 6380                    | 14200 | 87  | 6.09   | \$2,332.34  |
| [Dual CPU] AMD Opteron 6386 SE                 | 10764 | 124 | 2.24   | \$4,815.02* |
| [Dual CPU] AMD Opteron 8218                    | 2831  | 298 | 0.85   | \$3,312.70* |
| [Dual CPU] AMD Opteron 8222 SE                 | 2792  | 301 | 0.49   | \$5,654.46  |
| [Dual CPU] AMD Opteron 8354                    | 3223  | 286 | 134.29 | \$24.00     |
| [Dual CPU] AMD Opteron 8380                    | 5643  | 244 | 13.70  | \$412.00*   |
| [Dual CPU] AMD Opteron 8389                    | 6517  | 224 | 12.23  | \$532.82*   |
| [Dual CPU] AMD Opteron 8431                    | 5813  | 240 | 20.04  | \$290.00*   |
| [Dual CPU] AMD Opteron 8435                    | 7606  | 200 | 28.17  | \$270.00*   |
| [Dual CPU] AMD Opteron 8439 SE                 | 7875  | 189 | NA     | NA          |
| [Dual CPU] Dual-Core AMD Opteron 2212 HE       | 2302  | 312 | NA     | NA          |
| [Dual CPU] Dual-Core AMD Opteron 8224 SE       | 3532  | 281 | NA     | NA          |
| [Dual CPU] Intel Core2 Extreme X9775 @ 3.20GHz | 8303  | 178 | 4.17   | \$1,990.00* |

| [Dual CPU] Intel Pentium III 1133 @ 1133MHz  | 450                                     | 344                       | NA                              | NA             |
|----------------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| CPU Name                                     | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| [Dual CPU] Intel Pentium III 1266S @ 1266MHz | 465                                     | 342                       | NA                              | NA             |
| [Dual CPU] Intel Pentium III 1400 @ 1400MHz  | 540                                     | 339                       | NA                              | NA             |
| [Dual CPU] Intel Pentium III 1400S @ 1400MHz | 543                                     | 338                       | NA                              | NA             |
| [Dual CPU] Intel XEON 1.80GHz                | 362                                     | 345                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 2.00GHz                | 339                                     | 346                       | NA                              | NA             |
| [Dual CPU] Intel XEON 2.20GHz                | 453                                     | 343                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 2.40GHz                | 482                                     | 341                       | 26.48                           | \$18.20*       |
| [Dual CPU] Intel Xeon 2.66GHz                | 601                                     | 336                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 2.80GHz                | 672                                     | 332                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 3.00GHz                | 785                                     | 331                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 3.06GHz                | 604                                     | 334                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 3.20GHz                | 866                                     | 329                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 3.40GHz                | 894                                     | 328                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 3.60GHz                | 921                                     | 327                       | 0.54                            | \$1,702.00*    |
| [Dual CPU] Intel Xeon 3.73GHz                | 1898                                    | 318                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 3.80GHz                | 996                                     | 326                       | 0.59                            | \$1,702.00*    |
| [Dual CPU] Intel Xeon 5110 @ 1.60GHz         | 2186                                    | 316                       | 54.68                           | \$39.98        |
| [Dual CPU] Intel Xeon 5120 @ 1.86GHz         | 2310                                    | 311                       | 18.48                           | \$125.00       |
| [Dual CPU] Intel Xeon 5130 @ 2.00GHz         | 2616                                    | 304                       | 65.43                           | \$39.98        |
| [Dual CPU] Intel Xeon 5138 @ 2.13GHz         | 3017                                    | 289                       | NA                              | NA             |
| [Dual CPU] Intel Xeon 5140 @ 2.33GHz         | 2998                                    | 291                       | 100.00                          | \$29.98        |
| [Dual CPU] Intel Xeon 5148 @ 2.33GHz         | 2999                                    | 290                       | 42.84                           | \$70.00        |
| [Dual CPU] Intel Xeon 5150 @ 2.66GHz         | 3487                                    | 282                       | 109.04                          | \$31.98        |
| [Dual CPU] Intel Xeon 5160 @ 3.00GHz         | 3877                                    | 279                       | 121.23                          | \$31.98        |

|                                             |                                                 |                                   |                                         |                        |
|---------------------------------------------|-------------------------------------------------|-----------------------------------|-----------------------------------------|------------------------|
| [Dual CPU] Intel Xeon E5-2403 @ 1.80GHz     | 5988                                            | 235                               | 13.02                                   | \$460.00               |
| [Dual CPU] Intel Xeon E5-2407 @ 2.20GHz     | 7387                                            | 203                               | 12.22                                   | \$604.66               |
| [Dual CPU] Intel Xeon E5-2420 @ 1.90GHz     | 11832                                           | 111                               | 14.28                                   | \$828.50               |
| [Dual CPU] Intel Xeon E5-2420 v2 @ 2.20GHz  | 11725                                           | 114                               | 13.27                                   | \$883.76*              |
| [Dual CPU] Intel Xeon E5-2430 @ 2.20GHz     | 13637                                           | 92                                | 19.71                                   | \$692.00               |
| [Dual CPU] Intel Xeon E5-2430 v2 @ 2.50GHz  | 14265                                           | 86                                | 11.37                                   | \$1,254.98*            |
| [Dual CPU] Intel Xeon E5-2430L v2 @ 2.40GHz | 12354                                           | 100                               | NA                                      | NA                     |
| [Dual CPU] Intel Xeon E5-2450 @ 2.10GHz     | 13718                                           | 91                                | 13.62                                   | \$1,007.00             |
| [Dual CPU] Intel Xeon E5-2450L @ 1.80GHz    | 11876                                           | 110                               | NA                                      | NA                     |
| [Dual CPU] Intel Xeon E5-2470 @ 2.30GHz     | 16613                                           | 72                                | 5.61                                    | \$2,959.98*            |
| [Dual CPU] Intel Xeon E5-2470 v2 @ 2.40GHz  | 18572                                           | 58                                | 5.82                                    | \$3,193.30*            |
| [Dual CPU] Intel Xeon E5-2603 @ 1.80GHz     | 6259                                            | 228                               | 13.74                                   | \$455.66               |
| [Dual CPU] Intel Xeon E5-2603 v2 @ 1.80GHz  | 6518                                            | 223                               | 8.78                                    | \$742.38               |
| [Dual CPU] Intel Xeon E5-2603 v3 @ 1.60GHz  | 8406                                            | 175                               | 22.24                                   | \$378.00               |
| [Dual CPU] Intel Xeon E5-2603 v4 @ 1.70GHz  | 8809                                            | 167                               | NA                                      | NA                     |
| [Dual CPU] Intel Xeon E5-2609 @ 2.40GHz     | 8148                                            | 181                               | 101.88                                  | \$79.98                |
| [Dual CPU] Intel Xeon E5-2609 v2 @ 2.50GHz  | 8672                                            | 170                               | 10.35                                   | \$838.02               |
| [Dual CPU] Intel Xeon E5-2609 v3 @ 1.90GHz  | 9885                                            | 147                               | 16.53                                   | \$598.00               |
| [Dual CPU] Intel Xeon E5-2609 v4 @ 1.70GHz  | 10835                                           | 123                               | NA                                      | NA                     |
| [Dual CPU] Intel Xeon E5-2620 @ 2.00GHz     | 12585                                           | 99                                | 34.20                                   | \$368.00               |
| [Dual CPU] Intel Xeon E5-2620 v2 @ 2.10GHz  | 13469                                           | 96                                | 15.10                                   | \$892.10               |
| [Dual CPU] Intel Xeon E5-2620 v3 @ 2.40GHz  | 15427                                           | 77                                | 19.28                                   | \$800.00               |
| [Dual CPU] Intel Xeon E5-2620 v4 @ 2.10GHz  | 16825                                           | 70                                | NA                                      | NA                     |
| [Dual CPU] Intel Xeon E5-2623 v3 @ 3.00GHz  | 13914                                           | 89                                | 12.96                                   | \$1,073.38             |
| [Dual CPU] Intel Xeon E5-2623 v4 @ 2.60GHz  | 10196                                           | 137                               | 10.66                                   | \$956.76               |
| <b>CPU Name</b>                             | <b>Passmark CPU Mark<br/>(higher is better)</b> | <b>Rank<br/>(lower is better)</b> | <b>CPU Value<br/>(higher is better)</b> | <b>Price<br/>(USD)</b> |

|                                             |       |     |       |             |
|---------------------------------------------|-------|-----|-------|-------------|
| [Dual CPU] Intel Xeon E5-2630 @ 2.30GHz     | 13836 | 90  | 16.39 | \$844.02    |
| [Dual CPU] Intel Xeon E5-2630 v2 @ 2.60GHz  | 16274 | 73  | 12.59 | \$1,293.00  |
| [Dual CPU] Intel Xeon E5-2630 v3 @ 2.40GHz  | 18648 | 57  | 14.68 | \$1,270.00  |
| [Dual CPU] Intel Xeon E5-2630 v4 @ 2.20GHz  | 18665 | 56  | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2630L @ 2.00GHz    | 10641 | 127 | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2630L v2 @ 2.40GHz | 13636 | 93  | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2637 v2 @ 3.50GHz  | 16247 | 74  | 7.45  | \$2,179.40  |
| [Dual CPU] Intel Xeon E5-2637 v3 @ 3.50GHz  | 16823 | 71  | 7.85  | \$2,143.98* |
| [Dual CPU] Intel Xeon E5-2637 v4 @ 3.50GHz  | 17398 | 65  | 7.48  | \$2,326.56  |
| [Dual CPU] Intel Xeon E5-2640 @ 2.50GHz     | 14937 | 81  | 27.08 | \$551.60    |
| [Dual CPU] Intel Xeon E5-2640 v2 @ 2.00GHz  | 14523 | 83  | 8.60  | \$1,688.08  |
| [Dual CPU] Intel Xeon E5-2640 v3 @ 2.60GHz  | 20797 | 45  | 10.63 | \$1,956.90  |
| [Dual CPU] Intel Xeon E5-2640 v4 @ 2.40GHz  | 21915 | 41  | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2643 @ 3.30GHz     | 13492 | 95  | 12.27 | \$1,100.00  |
| [Dual CPU] Intel Xeon E5-2643 v2 @ 3.50GHz  | 21447 | 42  | 6.38  | \$3,359.36  |
| [Dual CPU] Intel Xeon E5-2643 v3 @ 3.40GHz  | 20574 | 48  | 6.39  | \$3,218.00* |
| [Dual CPU] Intel Xeon E5-2643 v4 @ 3.40GHz  | 22010 | 40  | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2648L @ 1.80GHz    | 12233 | 102 | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2650 @ 2.00GHz     | 15288 | 80  | 43.18 | \$354.02    |
| [Dual CPU] Intel Xeon E5-2650 v2 @ 2.60GHz  | 19340 | 53  | 8.19  | \$2,360.00  |
| [Dual CPU] Intel Xeon E5-2650 v3 @ 2.30GHz  | 20626 | 47  | 10.58 | \$1,950.00  |
| [Dual CPU] Intel Xeon E5-2650 v4 @ 2.20GHz  | 22619 | 34  | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2650L @ 1.80GHz    | 14385 | 84  | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2658 v2 @ 2.40GHz  | 18066 | 61  | NA    | NA          |
| [Dual CPU] Intel Xeon E5-2660 @ 2.20GHz     | 17282 | 66  | 65.79 | \$262.70    |
| [Dual CPU] Intel Xeon E5-2660 v2 @ 2.20GHz  | 18670 | 55  | 8.87  | \$2,104.68  |
| [Dual CPU] Intel Xeon E5-2660 v3 @ 2.60GHz  | 23388 | 28  | 9.00  | \$2,600.00  |

| [Dual CPU] Intel Xeon E5-2660 v4 @ 2.00GHz  | 22103                                   | 38                        | NA                              | NA             |
|---------------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| [Dual CPU] Intel Xeon E5-2663 v3 @ 2.80GHz  | 22903                                   | 33                        | NA                              | NA             |
| [Dual CPU] Intel Xeon E5-2665 @ 2.40GHz     | 17643                                   | 63                        | 60.83                           | \$290.02       |
| [Dual CPU] Intel Xeon E5-2666 v3 @ 2.90GHz  | 24877                                   | 18                        | NA                              | NA             |
| [Dual CPU] Intel Xeon E5-2667 @ 2.90GHz     | 17014                                   | 68                        | 7.81                            | \$2,179.40     |
| [Dual CPU] Intel Xeon E5-2667 v2 @ 3.30GHz  | 23193                                   | 31                        | 5.39                            | \$4,303.40     |
| [Dual CPU] Intel Xeon E5-2667 v3 @ 3.20GHz  | 23107                                   | 32                        | 5.23                            | \$4,421.40     |
| [Dual CPU] Intel Xeon E5-2667 v4 @ 3.20GHz  | 25004                                   | 17                        | NA                              | NA             |
| [Dual CPU] Intel Xeon E5-2670 @ 2.60GHz     | 18445                                   | 60                        | 43.79                           | \$421.18       |
| [Dual CPU] Intel Xeon E5-2670 v2 @ 2.50GHz  | 22062                                   | 39                        | 6.99                            | \$3,154.52     |
| [Dual CPU] Intel Xeon E5-2670 v3 @ 2.30GHz  | 22330                                   | 36                        | 6.79                            | \$3,290.76     |
| [Dual CPU] Intel Xeon E5-2673 v3 @ 2.40GHz  | 23245                                   | 30                        | NA                              | NA             |
| [Dual CPU] Intel Xeon E5-2675 v3 @ 1.80GHz  | 20381                                   | 49                        | NA                              | NA             |
| [Dual CPU] Intel Xeon E5-2678 v3 @ 2.50GHz  | 25897                                   | 14                        | NA                              | NA             |
| [Dual CPU] Intel Xeon E5-2679 v4 @ 2.50GHz  | 29934                                   | 5                         | 5.54                            | \$5,404.00*    |
| [Dual CPU] Intel Xeon E5-2680 @ 2.70GHz     | 18544                                   | 59                        | 25.32                           | \$732.26       |
| [Dual CPU] Intel Xeon E5-2680 v2 @ 2.80GHz  | 23249                                   | 29                        | 13.68                           | \$1,700.00     |
| [Dual CPU] Intel Xeon E5-2680 v3 @ 2.50GHz  | 25287                                   | 15                        | 7.35                            | \$3,439.98     |
| [Dual CPU] Intel Xeon E5-2683 v3 @ 2.00GHz  | 22179                                   | 37                        | 5.59                            | \$3,969.98*    |
| [Dual CPU] Intel Xeon E5-2686 v3 @ 2.00GHz  | 25017                                   | 16                        | NA                              | NA             |
| [Dual CPU] Intel Xeon E5-2687W @ 3.10GHz    | 21268                                   | 43                        | 4.85                            | \$4,383.68     |
| [Dual CPU] Intel Xeon E5-2687W v2 @ 3.40GHz | 24501                                   | 23                        | 5.01                            | \$4,891.08     |
| CPU Name                                    | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| [Dual CPU] Intel Xeon E5-2687W v3 @ 3.10GHz | 24769                                   | 20                        | 5.68                            | \$4,359.98     |
| [Dual CPU] Intel Xeon E5-2687W v4 @ 3.00GHz | 27195                                   | 10                        | NA                              | NA             |
| [Dual CPU] Intel Xeon E5-2689 @ 2.60GHz     | 20362                                   | 50                        | NA                              | NA             |

|                                             |       |     |        |              |
|---------------------------------------------|-------|-----|--------|--------------|
| [Dual CPU] Intel Xeon E5-2689 v4 @ 3.10GHz  | 23547 | 27  | NA     | NA           |
| [Dual CPU] Intel Xeon E5-2690 @ 2.90GHz     | 20699 | 46  | 24.24  | \$853.88     |
| [Dual CPU] Intel Xeon E5-2690 v2 @ 3.00GHz  | 24189 | 25  | 4.27   | \$5,662.86   |
| [Dual CPU] Intel Xeon E5-2690 v3 @ 2.60GHz  | 26665 | 11  | 6.98   | \$3,818.00   |
| [Dual CPU] Intel Xeon E5-2690 v4 @ 2.60GHz  | 27641 | 8   | 6.61   | \$4,180.00*  |
| [Dual CPU] Intel Xeon E5-2695 v2 @ 2.40GHz  | 20896 | 44  | 4.27   | \$4,896.98*  |
| [Dual CPU] Intel Xeon E5-2695 v3 @ 2.30GHz  | 26021 | 13  | 5.29   | \$4,920.66   |
| [Dual CPU] Intel Xeon E5-2695 v4 @ 2.10GHz  | 24192 | 24  | 4.59   | \$5,267.46   |
| [Dual CPU] Intel Xeon E5-2696 v2 @ 2.50GHz  | 24548 | 21  | NA     | NA           |
| [Dual CPU] Intel Xeon E5-2696 v3 @ 2.30GHz  | 29548 | 6   | 5.91   | \$4,996.00*  |
| [Dual CPU] Intel Xeon E5-2696 v4 @ 2.20GHz  | 30292 | 3   | NA     | NA           |
| [Dual CPU] Intel Xeon E5-2697 v2 @ 2.70GHz  | 23960 | 26  | 4.52   | \$5,299.98   |
| [Dual CPU] Intel Xeon E5-2697 v3 @ 2.60GHz  | 29009 | 7   | 6.89   | \$4,210.00   |
| [Dual CPU] Intel Xeon E5-2697A v4 @ 2.60GHz | 26037 | 12  | NA     | NA           |
| [Dual CPU] Intel Xeon E5-2698 v3 @ 2.30GHz  | 30290 | 4   | 5.69   | \$5,320.00*  |
| [Dual CPU] Intel Xeon E5-2698 v4 @ 2.20GHz  | 32248 | 2   | 5.00   | \$6,452.00*  |
| [Dual CPU] Intel Xeon E5-2699 v3 @ 2.30GHz  | 24820 | 19  | 3.50   | \$7,100.00*  |
| [Dual CPU] Intel Xeon E5-2699 v4 @ 2.20GHz  | 37929 | 1   | 4.04   | \$9,388.36   |
| [Dual CPU] Intel Xeon E5-4627 v2 @ 3.30GHz  | 19491 | 52  | NA     | NA           |
| [Dual CPU] Intel Xeon E5-4640 v2 @ 2.20GHz  | 19209 | 54  | NA     | NA           |
| [Dual CPU] Intel Xeon E5-4650 @ 2.70GHz     | 19753 | 51  | 2.53   | \$7,799.98*  |
| [Dual CPU] Intel Xeon E5-4669 v3 @ 2.10GHz  | 27457 | 9   | 2.54   | \$10,800.00  |
| [Dual CPU] Intel Xeon E7-2850 @ 2.00GHz     | 12145 | 105 | 44.98  | \$270.00*    |
| [Dual CPU] Intel Xeon E7-4820 v3 @ 1.90GHz  | 15686 | 76  | NA     | NA           |
| [Dual CPU] Intel Xeon E7-4890 v2 @ 2.80GHz  | 22412 | 35  | 1.81   | \$12,400.00* |
| [Dual CPU] Intel Xeon E7- 4870 @ 2.40GHz    | 17541 | 64  | 14.40  | \$1,218.00*  |
| [Dual CPU] Intel Xeon E5205 @ 1.86GHz       | 2279  | 313 | 103.69 | \$21.98      |

| [Dual CPU] Intel Xeon E5310 @ 1.60GHz | 3667                                    | 280                       | 36.67                           | \$100.00       |
|---------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| [Dual CPU] Intel Xeon E5320 @ 1.86GHz | 4169                                    | 275                       | 25.27                           | \$165.00*      |
| [Dual CPU] Intel Xeon E5330 @ 2.13GHz | 4944                                    | 260                       | NA                              | NA             |
| [Dual CPU] Intel Xeon E5335 @ 2.00GHz | 4601                                    | 265                       | 20.45                           | \$225.00       |
| [Dual CPU] Intel Xeon E5345 @ 2.33GHz | 5184                                    | 255                       | 3.72                            | \$1,394.00     |
| [Dual CPU] Intel Xeon E5405 @ 2.00GHz | 5281                                    | 253                       | 88.16                           | \$59.90        |
| [Dual CPU] Intel Xeon E5410 @ 2.33GHz | 6094                                    | 232                       | 14.72                           | \$414.02       |
| [Dual CPU] Intel Xeon E5420 @ 2.50GHz | 6476                                    | 225                       | 87.54                           | \$73.98        |
| [Dual CPU] Intel Xeon E5430 @ 2.66GHz | 6932                                    | 216                       | 57.82                           | \$119.88*      |
| [Dual CPU] Intel Xeon E5440 @ 2.83GHz | 7275                                    | 207                       | 3.64                            | \$1,997.98     |
| [Dual CPU] Intel Xeon E5450 @ 3.00GHz | 7754                                    | 196                       | 43.32                           | \$179.00       |
| [Dual CPU] Intel Xeon E5462 @ 2.80GHz | 7316                                    | 205                       | 17.51                           | \$417.90*      |
| [Dual CPU] Intel Xeon E5472 @ 3.00GHz | 7873                                    | 190                       | 18.35                           | \$429.06       |
| [Dual CPU] Intel Xeon E5502 @ 1.87GHz | 2425                                    | 310                       | 28.87                           | \$84.00*       |
| [Dual CPU] Intel Xeon E5503 @ 2.00GHz | 2801                                    | 300                       | 4.83                            | \$580.00*      |
| [Dual CPU] Intel Xeon E5504 @ 2.00GHz | 4941                                    | 261                       | 41.18                           | \$120.00       |
| [Dual CPU] Intel Xeon E5506 @ 2.13GHz | 5076                                    | 258                       | 54.29                           | \$93.50*       |
| [Dual CPU] Intel Xeon E5507 @ 2.27GHz | 5584                                    | 247                       | 2.79                            | \$1,997.98     |
| [Dual CPU] Intel Xeon E5520 @ 2.27GHz | 7497                                    | 202                       | 23.44                           | \$319.90*      |
| CPU Name                              | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| [Dual CPU] Intel Xeon E5530 @ 2.40GHz | 7757                                    | 195                       | 48.18                           | \$161.00*      |
| [Dual CPU] Intel Xeon E5540 @ 2.53GHz | 8065                                    | 184                       | 179.30                          | \$44.98        |
| [Dual CPU] Intel Xeon E5603 @ 1.60GHz | 4261                                    | 274                       | 7.45                            | \$572.02       |
| [Dual CPU] Intel Xeon E5606 @ 2.13GHz | 5606                                    | 246                       | 50.06                           | \$111.98       |
| [Dual CPU] Intel Xeon E5607 @ 2.27GHz | 6004                                    | 234                       | 20.30                           | \$295.82*      |
| [Dual CPU] Intel Xeon E5620 @ 2.40GHz | 8287                                    | 179                       | 34.25                           | \$241.98       |

|                                       |       |     |        |             |
|---------------------------------------|-------|-----|--------|-------------|
| [Dual CPU] Intel Xeon E5630 @ 2.53GHz | 8519  | 173 | 37.21  | \$228.96    |
| [Dual CPU] Intel Xeon E5640 @ 2.67GHz | 8912  | 164 | 84.88  | \$105.00    |
| [Dual CPU] Intel Xeon E5645 @ 2.40GHz | 10508 | 128 | 66.51  | \$158.00    |
| [Dual CPU] Intel Xeon E5649 @ 2.53GHz | 10840 | 122 | 108.42 | \$99.98     |
| [Dual CPU] Intel Xeon E7340 @ 2.40GHz | 5444  | 250 | NA     | NA          |
| [Dual CPU] Intel Xeon L5240 @ 3.00GHz | 4469  | 269 | 24.83  | \$179.98    |
| [Dual CPU] Intel Xeon L5320 @ 1.86GHz | 4286  | 273 | 16.35  | \$262.12*   |
| [Dual CPU] Intel Xeon L5335 @ 2.00GHz | 4891  | 263 | 81.52  | \$60.00*    |
| [Dual CPU] Intel Xeon L5408 @ 2.13GHz | 5624  | 245 | NA     | NA          |
| [Dual CPU] Intel Xeon L5410 @ 2.33GHz | 6198  | 231 | 92.51  | \$67.00     |
| [Dual CPU] Intel Xeon L5420 @ 2.50GHz | 6603  | 221 | 36.69  | \$179.98    |
| [Dual CPU] Intel Xeon L5430 @ 2.66GHz | 6600  | 222 | 22.99  | \$287.10*   |
| [Dual CPU] Intel Xeon L5518 @ 2.13GHz | 6904  | 217 | NA     | NA          |
| [Dual CPU] Intel Xeon L5520 @ 2.27GHz | 7001  | 214 | 185.21 | \$37.80*    |
| [Dual CPU] Intel Xeon L5530 @ 2.40GHz | 7939  | 187 | NA     | NA          |
| [Dual CPU] Intel Xeon L5630 @ 2.13GHz | 7112  | 211 | 7.88   | \$902.10*   |
| [Dual CPU] Intel Xeon L5638 @ 2.00GHz | 8894  | 165 | 7.50   | \$1,186.00* |
| [Dual CPU] Intel Xeon L5639 @ 2.13GHz | 9641  | 151 | NA     | NA          |
| [Dual CPU] Intel Xeon L5640 @ 2.27GHz | 10122 | 139 | 53.28  | \$189.98    |
| [Dual CPU] Intel Xeon MP 2.50GHz      | 550   | 337 | NA     | NA          |
| [Dual CPU] Intel Xeon MP 2.70GHz      | 539   | 340 | 12.83  | \$42.00*    |
| [Dual CPU] Intel Xeon MP 3.00GHz      | 652   | 333 | NA     | NA          |
| [Dual CPU] Intel Xeon MV 3.20GHz      | 1538  | 320 | NA     | NA          |
| [Dual CPU] Intel Xeon W5580 @ 3.20GHz | 10084 | 141 | 3.04   | \$3,319.98* |
| [Dual CPU] Intel Xeon W5590 @ 3.33GHz | 10437 | 131 | 19.33  | \$539.98*   |
| [Dual CPU] Intel Xeon W5647 @ 2.93GHz | 10279 | 134 | NA     | NA          |
| [Dual CPU] Intel Xeon X5260 @ 3.33GHz | 4826  | 264 | 11.61  | \$415.78*   |

| [Dual CPU] Intel Xeon X5272 @ 3.40GHz | 4894                                    | 262                       | 14.83                           | \$330.00*      |
|---------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| [Dual CPU] Intel Xeon X5355 @ 2.66GHz | 5912                                    | 238                       | 35.19                           | \$167.98       |
| [Dual CPU] Intel Xeon X5365 @ 3.00GHz | 6352                                    | 227                       | 18.51                           | \$343.20*      |
| [Dual CPU] Intel Xeon X5450 @ 3.00GHz | 7620                                    | 199                       | 104.30                          | \$73.06*       |
| [Dual CPU] Intel Xeon X5460 @ 3.16GHz | 8048                                    | 185                       | 53.66                           | \$149.98       |
| [Dual CPU] Intel Xeon X5470 @ 3.33GHz | 8335                                    | 176                       | 15.10                           | \$552.00*      |
| [Dual CPU] Intel Xeon X5472 @ 3.00GHz | 7843                                    | 192                       | 18.94                           | \$414.00*      |
| [Dual CPU] Intel Xeon X5482 @ 3.20GHz | 8450                                    | 174                       | 44.48                           | \$189.98       |
| [Dual CPU] Intel Xeon X5492 @ 3.40GHz | 8926                                    | 163                       | 3.21                            | \$2,782.58*    |
| [Dual CPU] Intel Xeon X5550 @ 2.67GHz | 9131                                    | 158                       | 73.64                           | \$124.00       |
| [Dual CPU] Intel Xeon X5560 @ 2.80GHz | 9144                                    | 157                       | 147.72                          | \$61.90        |
| [Dual CPU] Intel Xeon X5570 @ 2.93GHz | 9594                                    | 152                       | 95.18                           | \$100.80       |
| [Dual CPU] Intel Xeon X5647 @ 2.93GHz | 9939                                    | 144                       | 7.95                            | \$1,250.00*    |
| [Dual CPU] Intel Xeon X5650 @ 2.67GHz | 11716                                   | 115                       | 75.11                           | \$155.98       |
| [Dual CPU] Intel Xeon X5660 @ 2.80GHz | 11900                                   | 108                       | 85.01                           | \$139.98       |
| [Dual CPU] Intel Xeon X5667 @ 3.07GHz | 8817                                    | 166                       | 27.55                           | \$320.00*      |
| CPU Name                              | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| [Dual CPU] Intel Xeon X5670 @ 2.93GHz | 12724                                   | 98                        | 58.37                           | \$218.00       |
| [Dual CPU] Intel Xeon X5672 @ 3.20GHz | 10249                                   | 135                       | 37.11                           | \$276.16*      |
| [Dual CPU] Intel Xeon X5675 @ 3.07GHz | 12880                                   | 97                        | 37.01                           | \$348.00       |
| [Dual CPU] Intel Xeon X5677 @ 3.47GHz | 11640                                   | 116                       | 16.63                           | \$700.00       |
| [Dual CPU] Intel Xeon X5679 @ 3.20GHz | 13618                                   | 94                        | NA                              | NA             |
| [Dual CPU] Intel Xeon X5680 @ 3.33GHz | 13955                                   | 88                        | 37.72                           | \$370.00       |
| [Dual CPU] Intel Xeon X5687 @ 3.60GHz | 12166                                   | 104                       | 38.26                           | \$318.00       |
| [Dual CPU] Intel Xeon X5690 @ 3.47GHz | 14295                                   | 85                        | 28.59                           | \$499.92       |
| [Dual CPU] Intel Xeon X5698 @ 4.40GHz | 8974                                    | 160                       | NA                              | NA             |

|                                          |       |     |        |             |
|------------------------------------------|-------|-----|--------|-------------|
| [Dual CPU] Intel Xeon X7350 @ 2.93GHz    | 6640  | 220 | 83.02  | \$79.98*    |
| [Dual CPU] Intel Xeon X7460 @ 2.66GHz    | 8721  | 169 | NA     | NA          |
| [Dual CPU] Intel Xeon X7550 @ 2.00GHz    | 9937  | 145 | 26.29  | \$378.00    |
| [Dual CPU] Intel Xeon X7560 @ 2.27GHz    | 11631 | 117 | 36.35  | \$319.98    |
| [Dual CPU] Quad-Core AMD Opteron 2352    | 4378  | 270 | 9.95   | \$440.00    |
| [Dual CPU] Quad-Core AMD Opteron 2358 SE | 5042  | 259 | 11.46  | \$440.00*   |
| [Dual CPU] Quad-Core AMD Opteron 8350    | 4290  | 272 | 9.75   | \$440.00    |
| [Dual CPU] Quad-Core AMD Opteron 8356    | 4374  | 271 | 10.27  | \$426.00*   |
| [Dual CPU] Quad-Core AMD Opteron 8378    | 5382  | 251 | 30.51  | \$176.42*   |
| [Dual CPU] Quad-Core AMD Opteron 8393 SE | 6864  | 218 | NA     | NA          |
| [Dual CPU] Six-Core AMD Opteron 2419 EE  | 5654  | 243 | NA     | NA          |
| [Dual CPU] Six-Core AMD Opteron 2423 HE  | 5927  | 237 | NA     | NA          |
| [Quad CPU] AMD Opteron 6128 HE           | 8323  | 177 | NA     | NA          |
| [Quad CPU] AMD Opteron 6136              | 9767  | 148 | 3.76   | \$2,599.80* |
| [Quad CPU] AMD Opteron 6272              | 10069 | 142 | 7.75   | \$1,300.00  |
| [Quad CPU] AMD Opteron 6274              | 11383 | 119 | 3.13   | \$3,635.80  |
| [Quad CPU] AMD Opteron 6276              | 15342 | 79  | 38.64  | \$397.00    |
| [Quad CPU] AMD Opteron 6278              | 12055 | 106 | 4.35   | \$2,770.00* |
| [Quad CPU] AMD Opteron 6376              | 14681 | 82  | 5.24   | \$2,799.96  |
| [Quad CPU] AMD Opteron 8360 SE           | 7915  | 188 | 94.23  | \$84.00*    |
| [Quad CPU] AMD Opteron 8382              | 8553  | 172 | 152.73 | \$56.00     |
| [Quad CPU] AMD Opteron 8425 HE           | 7359  | 204 | NA     | NA          |
| [Quad CPU] AMD Opteron 8431              | 8252  | 180 | 14.23  | \$580.00*   |
| [Quad CPU] AMD Opteron 8435              | 7099  | 212 | 13.15  | \$540.00*   |
| [Quad CPU] AMD Opteron 8439 SE           | 8943  | 162 | NA     | NA          |
| [Quad CPU] Intel Xeon 3.00GHz            | 1472  | 321 | NA     | NA          |
| [Quad CPU] Intel Xeon 3.40GHz            | 3395  | 283 | NA     | NA          |

| [Quad CPU] Intel Xeon E5-4617 @ 2.90GHz    | 16874                                   | 69                        | NA                              | NA             |
|--------------------------------------------|-----------------------------------------|---------------------------|---------------------------------|----------------|
| [Quad CPU] Intel Xeon E5-4627 v2 @ 3.30GHz | 24511                                   | 22                        | NA                              | NA             |
| [Quad CPU] Intel Xeon E7-4850 v2 @ 2.30GHz | 16028                                   | 75                        | NA                              | NA             |
| [Quad CPU] Intel Xeon E7- 4850 @ 2.00GHz   | 17269                                   | 67                        | 21.59                           | \$799.96       |
| [Quad CPU] Intel Xeon E7- 8837 @ 2.67GHz   | 11752                                   | 113                       | 2.45                            | \$4,799.96     |
| [Quad CPU] Intel Xeon E7330 @ 2.40GHz      | 7021                                    | 213                       | 35.14                           | \$199.80*      |
| [Quad CPU] Intel Xeon E7440 @ 2.40GHz      | 10195                                   | 138                       | NA                              | NA             |
| [Quad CPU] Intel Xeon E7450 @ 2.40GHz      | 9487                                    | 154                       | NA                              | NA             |
| [Quad CPU] Intel Xeon E7520 @ 1.87GHz      | 9041                                    | 159                       | 10.76                           | \$839.96       |
| [Quad CPU] Intel Xeon L7455 @ 2.13GHz      | 9741                                    | 149                       | NA                              | NA             |
| [Quad CPU] Intel Xeon X7350 @ 2.93GHz      | 9542                                    | 153                       | 59.65                           | \$159.96*      |
| [Quad CPU] Intel Xeon X7460 @ 2.66GHz      | 12302                                   | 101                       | NA                              | NA             |
| [Quad CPU] Intel Xeon X7550 @ 2.00GHz      | 11498                                   | 118                       | 15.21                           | \$756.00       |
| CPU Name                                   | Passmark CPU Mark<br>(higher is better) | Rank<br>(lower is better) | CPU Value<br>(higher is better) | Price<br>(USD) |
| [Quad CPU] Intel Xeon X7560 @ 2.27GHz      | 15414                                   | 78                        | 24.09                           | \$639.96       |
| [Quad CPU] Quad-Core AMD Opteron 8356      | 7170                                    | 209                       | 8.42                            | \$852.00*      |

\* - Last price seen from our affiliates.

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