
TOP500 Report for November 2006

TOP500 Team

<http://www.top500.org/>

Countries

| Countries | Count | Percent | Rmax | | | Processors | | |
|---------------|-------|---------|--------------|--------|----------|------------|--------|------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Australia | 4 | 0.80 % | 20671 | 0.59 % | 5167.75 | 4888 | 0.48 % | 1222 |
| Belgium | 1 | 0.20 % | 4493 | 0.13 % | 4493.00 | 1300 | 0.13 % | 1300 |
| Brazil | 4 | 0.80 % | 13668 | 0.39 % | 3417.00 | 3780 | 0.37 % | 945 |
| Canada | 8 | 1.60 % | 37317 | 1.06 % | 4664.62 | 11184 | 1.10 % | 1398 |
| China | 18 | 3.60 % | 72192 | 2.05 % | 4010.67 | 20374 | 2.00 % | 1131 |
| Denmark | 1 | 0.20 % | 2791 | 0.08 % | 2791.00 | 1024 | 0.10 % | 1024 |
| Finland | 1 | 0.20 % | 8200 | 0.23 % | 8200.00 | 2048 | 0.20 % | 2048 |
| France | 12 | 2.40 % | 99870 | 2.83 % | 8322.50 | 28080 | 2.75 % | 2340 |
| Germany | 19 | 3.80 % | 148295 | 4.20 % | 7805.00 | 38524 | 3.77 % | 2027 |
| India | 10 | 2.00 % | 34162 | 0.97 % | 3416.20 | 10908 | 1.07 % | 1090 |
| Ireland | 1 | 0.20 % | 3142 | 0.09 % | 3142.00 | 968 | 0.09 % | 968 |
| Israel | 2 | 0.40 % | 7510 | 0.21 % | 3755.00 | 2584 | 0.25 % | 1292 |
| Italy | 8 | 1.60 % | 39172 | 1.11 % | 4896.50 | 12616 | 1.24 % | 1577 |
| Japan | 30 | 6.00 % | 286674 | 8.13 % | 9555.80 | 70757 | 6.93 % | 2358 |
| Korea, South | 6 | 1.20 % | 33715 | 0.96 % | 5619.17 | 7764 | 0.76 % | 1294 |
| Malaysia | 3 | 0.60 % | 12125 | 0.34 % | 4041.67 | 3554 | 0.35 % | 1184 |
| Mexico | 1 | 0.20 % | 5090 | 0.14 % | 5090.00 | 1360 | 0.13 % | 1360 |
| Netherlands | 2 | 0.40 % | 31114 | 0.88 % | 15557.00 | 13312 | 1.30 % | 6656 |
| New Zealand | 1 | 0.20 % | 3755 | 0.11 % | 3755.00 | 1000 | 0.10 % | 1000 |
| Norway | 3 | 0.60 % | 17473 | 0.50 % | 5824.33 | 3008 | 0.29 % | 1002 |
| Russia | 2 | 0.40 % | 9705 | 0.28 % | 4852.50 | 2460 | 0.24 % | 1230 |
| Saudia Arabia | 4 | 0.80 % | 11966 | 0.34 % | 2991.50 | 3936 | 0.39 % | 984 |
| Singapore | 2 | 0.40 % | 6324 | 0.18 % | 3162.00 | 1168 | 0.11 % | 584 |
| South Africa | 2 | 0.40 % | 5696 | 0.16 % | 2848.00 | 3072 | 0.30 % | 1536 |
| Spain | 7 | 1.40 % | 91600 | 2.60 % | 13085.71 | 15208 | 1.49 % | 2172 |
| Sweden | 1 | 0.20 % | 4999 | 0.14 % | 4999.00 | 886 | 0.09 % | 886 |
| Switzerland | 5 | 1.00 % | 47682 | 1.35 % | 9536.40 | 15388 | 1.51 % | 3077 |

| Countries | Count | Percent | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
|----------------------|-------|---------|-----------------|---------|---------|---------|---------|------|
| Taiwan | 2 | 0.40 % | 5535 | 0.16 % | 2767.50 | 1768 | 0.17 % | 884 |
| Turkey | 1 | 0.20 % | 3288 | 0.09 % | 3288.00 | 560 | 0.05 % | 560 |
| United Arab Emirates | 1 | 0.20 % | 4713 | 0.13 % | 4713.00 | 2048 | 0.20 % | 2048 |
| United Kingdom | 30 | 6.00 % | 186420 | 5.28 % | 6214.00 | 49812 | 4.88 % | 1660 |
| United States | 308 | 61.60 % | 2268254 | 64.30 % | 7364.46 | 685562 | 67.15 % | 2225 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Geographical Region

| | | | Rmax | | | Processors | | |
|---------------------------|------------|-------------|----------------|-------------|---------|----------------|-------------|------|
| Geographical Region | Count | Percent | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Australia and New Zealand | 5 | 1.00 % | 24426 | 0.69 % | 4885.20 | 5888 | 0.58 % | 1177 |
| Central America | 1 | 0.20 % | 5090 | 0.14 % | 5090.00 | 1360 | 0.13 % | 1360 |
| Eastern Asia | 56 | 11.20 % | 398116 | 11.29 % | 7109.21 | 100663 | 9.86 % | 1797 |
| Eastern Europe | 2 | 0.40 % | 9705 | 0.28 % | 4852.50 | 2460 | 0.24 % | 1230 |
| North America | 316 | 63.20 % | 2305570 | 65.36 % | 7296.11 | 696746 | 68.25 % | 2204 |
| Northern Europe | 37 | 7.40 % | 223025 | 6.32 % | 6027.70 | 57746 | 5.66 % | 1560 |
| South America | 4 | 0.80 % | 13668 | 0.39 % | 3417.00 | 3780 | 0.37 % | 945 |
| South-central Asia | 10 | 2.00 % | 34162 | 0.97 % | 3416.20 | 10908 | 1.07 % | 1090 |
| South-eastern Asia | 5 | 1.00 % | 18449 | 0.52 % | 3689.80 | 4722 | 0.46 % | 944 |
| Southern Africa | 2 | 0.40 % | 5696 | 0.16 % | 2848.00 | 3072 | 0.30 % | 1536 |
| Southern Europe | 15 | 3.00 % | 130772 | 3.71 % | 8718.13 | 27824 | 2.73 % | 1854 |
| Western Asia | 8 | 1.60 % | 27477 | 0.78 % | 3434.62 | 9128 | 0.89 % | 1141 |
| Western Europe | 39 | 7.80 % | 331454 | 9.40 % | 8498.82 | 96604 | 9.46 % | 2477 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Architectures

| Architectures | Count | Percent | Rmax | | | Processors | | |
|----------------|------------|-------------|----------------|-------------|----------|----------------|-------------|------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Cluster | 361 | 72.20 % | 1818862 | 51.56 % | 5038.40 | 485257 | 47.53 % | 1344 |
| Constellations | 31 | 6.20 % | 156728 | 4.44 % | 5055.74 | 51274 | 5.02 % | 1654 |
| MPP | 108 | 21.60 % | 1552019 | 44.00 % | 14370.55 | 484370 | 47.45 % | 4484 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Continent

| Continent | Count | Percent | Rmax | | | Processors | | |
|------------|------------|-------------|----------------|-------------|---------|----------------|-------------|------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Africa | 2 | 0.40 % | 5696 | 0.16 % | 2848.00 | 3072 | 0.30 % | 1536 |
| Americas | 321 | 64.20 % | 2324329 | 65.89 % | 7240.90 | 701886 | 68.75 % | 2186 |
| Asia | 79 | 15.80 % | 478204 | 13.56 % | 6053.22 | 125421 | 12.29 % | 1587 |
| Europe | 93 | 18.60 % | 694955 | 19.70 % | 7472.63 | 184634 | 18.09 % | 1985 |
| Oceania | 5 | 1.00 % | 24426 | 0.69 % | 4885.20 | 5888 | 0.58 % | 1177 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Manufacturer

| Manufacturer | Count | Percent | Rmax | | | Processors | | |
|--------------------------------|------------|-------------|----------------|-------------|----------|----------------|-------------|-------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Appro International | 2 | 0.40 % | 11538 | 0.33 % | 5769.00 | 3332 | 0.33 % | 1666 |
| Atipa Technology | 4 | 0.80 % | 19002 | 0.54 % | 4750.50 | 4784 | 0.47 % | 1196 |
| Bull SA | 1 | 0.20 % | 52840 | 1.50 % | 52840.00 | 9968 | 0.98 % | 9968 |
| California Digital Corporation | 1 | 0.20 % | 19940 | 0.57 % | 19940.00 | 4096 | 0.40 % | 4096 |
| Cray Inc. | 15 | 3.00 % | 288171 | 8.17 % | 19211.40 | 65415 | 6.41 % | 4361 |
| DALCO AG Switzerland | 1 | 0.20 % | 9604 | 0.27 % | 9604.00 | 1024 | 0.10 % | 1024 |
| Dawning | 1 | 0.20 % | 8061 | 0.23 % | 8061.00 | 2560 | 0.25 % | 2560 |
| Dell | 18 | 3.60 % | 255890 | 7.25 % | 14216.11 | 42128 | 4.13 % | 2340 |
| Fujitsu | 5 | 1.00 % | 28665 | 0.81 % | 5733.00 | 8128 | 0.80 % | 1625 |
| Galactic Computing | 1 | 0.20 % | 3413 | 0.10 % | 3413.00 | 562 | 0.06 % | 562 |
| Hewlett-Packard | 157 | 31.40 % | 579289 | 16.42 % | 3689.74 | 175202 | 17.16 % | 1115 |
| Hitachi | 6 | 1.20 % | 34276 | 0.97 % | 5712.67 | 356 | 0.03 % | 59 |
| Hitachi/Fujitsu | 1 | 0.20 % | 10350 | 0.29 % | 10350.00 | 2560 | 0.25 % | 2560 |
| HPTi | 1 | 0.20 % | 3337 | 0.09 % | 3337.00 | 1536 | 0.15 % | 1536 |
| IBM | 237 | 47.40 % | 1750452 | 49.62 % | 7385.87 | 603398 | 59.10 % | 2545 |
| IBM/HP | 1 | 0.20 % | 3782 | 0.11 % | 3782.00 | 1200 | 0.12 % | 1200 |
| Intel | 1 | 0.20 % | 8564 | 0.24 % | 8564.00 | 1024 | 0.10 % | 1024 |
| lenovo | 1 | 0.20 % | 4193 | 0.12 % | 4193.00 | 1024 | 0.10 % | 1024 |
| Linux Networx | 7 | 1.40 % | 59127 | 1.68 % | 8446.71 | 15820 | 1.55 % | 2260 |
| NEC | 3 | 0.60 % | 47697 | 1.35 % | 15899.00 | 5888 | 0.58 % | 1962 |
| NEC/Sun | 1 | 0.20 % | 47380 | 1.34 % | 47380.00 | 11088 | 1.09 % | 11088 |
| Rackable Systems | 1 | 0.20 % | 2974 | 0.08 % | 2974.00 | 832 | 0.08 % | 832 |
| Self-made | 5 | 1.00 % | 43211 | 1.22 % | 8642.20 | 9176 | 0.90 % | 1835 |
| SGI | 20 | 4.00 % | 191687 | 5.43 % | 9584.35 | 34992 | 3.43 % | 1749 |
| Sun Microsystems | 9 | 1.80 % | 44166 | 1.25 % | 4907.33 | 14808 | 1.45 % | 1645 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Producer Region

| Producer Region | Count | Percent | Rmax | | | Processors | | |
|-----------------|-------|---------|--------------|---------|----------|------------|---------|------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Eastern Asia | 14 | 2.80 % | 155370 | 4.40 % | 11097.86 | 24038 | 2.35 % | 1717 |
| Global | 5 | 1.00 % | 43211 | 1.22 % | 8642.20 | 9176 | 0.90 % | 1835 |
| North America | 479 | 95.80 % | 3266584 | 92.60 % | 6819.59 | 976695 | 95.67 % | 2039 |
| Western Europe | 2 | 0.40 % | 62444 | 1.77 % | 31222.00 | 10992 | 1.08 % | 5496 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Site Segments

| Site Segments | Count | Percent | Rmax | | | Processors | | |
|---------------|-------|---------|--------------|---------|----------|------------|---------|------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Academic | 86 | 17.20 % | 727869 | 20.63 % | 8463.59 | 178612 | 17.50 % | 2076 |
| Classified | 20 | 4.00 % | 95514 | 2.71 % | 4775.70 | 24592 | 2.41 % | 1229 |
| Government | 4 | 0.80 % | 15791 | 0.45 % | 3947.75 | 4048 | 0.40 % | 1012 |
| Industry | 246 | 49.20 % | 911585 | 25.84 % | 3705.63 | 275935 | 27.03 % | 1121 |
| Research | 133 | 26.60 % | 1704263 | 48.31 % | 12814.01 | 514986 | 50.44 % | 3872 |
| Vendor | 11 | 2.20 % | 72587 | 2.06 % | 6598.82 | 22728 | 2.23 % | 2066 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Application Area

| Application Area | Count | Percent | Rmax | | | Processors | | |
|--------------------------------|-------|---------|--------------|---------|----------|------------|---------|-------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Aerospace | 2 | 0.40 % | 57276 | 1.62 % | 28638.00 | 12464 | 1.22 % | 6232 |
| Automotive | 1 | 0.20 % | 3068 | 0.09 % | 3068.00 | 720 | 0.07 % | 720 |
| Benchmarking | 6 | 1.20 % | 22827 | 0.65 % | 3804.50 | 6304 | 0.62 % | 1050 |
| CFD | 2 | 0.40 % | 25784 | 0.73 % | 12892.00 | 4096 | 0.40 % | 2048 |
| Database | 1 | 0.20 % | 2764 | 0.08 % | 2764.00 | 800 | 0.08 % | 800 |
| Defense | 3 | 0.60 % | 88142 | 2.50 % | 29380.67 | 18804 | 1.84 % | 6268 |
| Digital Content Creation | 1 | 0.20 % | 3460 | 0.10 % | 3460.00 | 924 | 0.09 % | 924 |
| Digital Media | 3 | 0.60 % | 10324 | 0.29 % | 3441.33 | 2876 | 0.28 % | 958 |
| Electronics | 2 | 0.40 % | 6866 | 0.19 % | 3433.00 | 1536 | 0.15 % | 768 |
| Energy | 3 | 0.60 % | 17503 | 0.50 % | 5834.33 | 6276 | 0.61 % | 2092 |
| Environment | 1 | 0.20 % | 35860 | 1.02 % | 35860.00 | 5120 | 0.50 % | 5120 |
| Finance | 29 | 5.80 % | 101772 | 2.88 % | 3509.38 | 32132 | 3.15 % | 1108 |
| Gaming | 7 | 1.40 % | 20918 | 0.59 % | 2988.29 | 6068 | 0.59 % | 866 |
| Geophysics | 23 | 4.60 % | 91912 | 2.61 % | 3996.17 | 31772 | 3.11 % | 1381 |
| Image Proc./Rendering | 1 | 0.20 % | 3146 | 0.09 % | 3146.00 | 1192 | 0.12 % | 1192 |
| Information Processing Service | 4 | 0.80 % | 107496 | 3.05 % | 26874.00 | 44200 | 4.33 % | 11050 |
| Life Science | 1 | 0.20 % | 3138 | 0.09 % | 3138.00 | 576 | 0.06 % | 576 |
| Media | 1 | 0.20 % | 3755 | 0.11 % | 3755.00 | 1000 | 0.10 % | 1000 |
| Medicine | 1 | 0.20 % | 62630 | 1.78 % | 62630.00 | 10240 | 1.00 % | 10240 |
| Not Specified | 286 | 57.20 % | 1582473 | 44.86 % | 5533.12 | 465925 | 45.64 % | 1629 |
| Pharmaceuticals | 1 | 0.20 % | 6619 | 0.19 % | 6619.00 | 2688 | 0.26 % | 2688 |
| Research | 46 | 9.20 % | 934897 | 26.50 % | 20323.85 | 284892 | 27.91 % | 6193 |
| Retail | 1 | 0.20 % | 2932 | 0.08 % | 2932.00 | 656 | 0.06 % | 656 |
| Semiconductor | 50 | 10.00 % | 173390 | 4.92 % | 3467.80 | 47934 | 4.70 % | 958 |
| Telecomm | 6 | 1.20 % | 17773 | 0.50 % | 2962.17 | 7244 | 0.71 % | 1207 |

| Application Area | Count | Percent | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
|---------------------------------|-------|---------|-----------------|--------|---------|---------|--------|------|
| Weather and Climate Research | 17 | 3.40 % | 136508 | 3.87 % | 8029.88 | 23310 | 2.28 % | 1371 |
| Weather Forecasting | 1 | 0.20 % | 4379 | 0.12 % | 4379.00 | 1152 | 0.11 % | 1152 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Interconnect

| Interconnect | Count | Percent | Rmax | | | Processors | | |
|----------------------------------|------------|-------------|----------------|-------------|----------|----------------|-------------|-------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Colony | 2 | 0.40 % | 7901 | 0.22 % | 3950.50 | 3008 | 0.29 % | 1504 |
| Crossbar | 7 | 1.40 % | 54195 | 1.54 % | 7742.14 | 7978 | 0.78 % | 1139 |
| Federation | 38 | 7.60 % | 339046 | 9.61 % | 8922.26 | 57060 | 5.59 % | 1501 |
| Gigabit Ethernet | 213 | 42.60 % | 765979 | 21.71 % | 3596.15 | 243360 | 23.84 % | 1142 |
| GigabitEthernet/10Gig Infiniband | 1 | 0.20 % | 4404 | 0.12 % | 4404.00 | 1680 | 0.16 % | 1680 |
| Hyper crossbar | 1 | 0.20 % | 10350 | 0.29 % | 10350.00 | 2560 | 0.25 % | 2560 |
| HyperPlex | 27 | 5.40 % | 87070 | 2.47 % | 3224.81 | 35866 | 3.51 % | 1328 |
| Infiniband | 59 | 11.80 % | 488262 | 13.84 % | 8275.63 | 98036 | 9.60 % | 1661 |
| Infiniband DDR | 1 | 0.20 % | 8181 | 0.23 % | 8181.00 | 2304 | 0.23 % | 2304 |
| Infiniband SDR | 17 | 3.40 % | 77560 | 2.20 % | 4562.35 | 19456 | 1.91 % | 1144 |
| InfiniPath | 1 | 0.20 % | 18270 | 0.52 % | 18270.00 | 2340 | 0.23 % | 2340 |
| Multi-stage crossbar | 3 | 0.60 % | 47697 | 1.35 % | 15899.00 | 5888 | 0.58 % | 1962 |
| Myrinet | 52 | 10.40 % | 333481 | 9.45 % | 6413.10 | 74404 | 7.29 % | 1430 |
| Myrinet/Infiniband | 1 | 0.20 % | 8728 | 0.25 % | 8728.00 | 2048 | 0.20 % | 2048 |
| NUMAlink | 17 | 3.40 % | 130621 | 3.70 % | 7683.59 | 22400 | 2.19 % | 1317 |
| NUMAlink/GigEthernet | 1 | 0.20 % | 2887 | 0.08 % | 2887.00 | 1280 | 0.13 % | 1280 |
| Numalink/Infiniband | 2 | 0.40 % | 58179 | 1.65 % | 29089.50 | 11312 | 1.11 % | 5656 |
| Proprietary | 30 | 6.00 % | 669508 | 18.98 % | 22316.93 | 311776 | 30.54 % | 10392 |
| Quadrics | 14 | 2.80 % | 149888 | 4.25 % | 10706.29 | 40420 | 3.96 % | 2887 |
| RapidArray | 2 | 0.40 % | 6037 | 0.17 % | 3018.50 | 1689 | 0.17 % | 844 |
| SP Switch | 2 | 0.40 % | 14608 | 0.41 % | 7304.00 | 14848 | 1.45 % | 7424 |
| XT3 Internal Interconnect | 9 | 1.80 % | 244757 | 6.94 % | 27195.22 | 61188 | 5.99 % | 6798 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Interconnect Family

| Interconnect Family | Count | Percent | Rmax | | | Processors | | |
|---------------------|------------|-------------|----------------|-------------|----------|----------------|-------------|-------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Cray Interconnect | 9 | 1.80 % | 244757 | 6.94 % | 27195.22 | 61188 | 5.99 % | 6798 |
| Crossbar | 11 | 2.20 % | 112242 | 3.18 % | 10203.82 | 16426 | 1.61 % | 1493 |
| Gigabit Ethernet | 213 | 42.60 % | 765979 | 21.71 % | 3596.15 | 243360 | 23.84 % | 1142 |
| Infiniband | 78 | 15.60 % | 592273 | 16.79 % | 7593.24 | 122136 | 11.96 % | 1565 |
| Mixed | 5 | 1.00 % | 74198 | 2.10 % | 14839.60 | 16320 | 1.60 % | 3264 |
| Myrinet | 79 | 15.80 % | 420552 | 11.92 % | 5323.44 | 110270 | 10.80 % | 1395 |
| NUMalink | 17 | 3.40 % | 130621 | 3.70 % | 7683.59 | 22400 | 2.19 % | 1317 |
| Proprietary | 30 | 6.00 % | 669508 | 18.98 % | 22316.93 | 311776 | 30.54 % | 10392 |
| Quadrics | 14 | 2.80 % | 149888 | 4.25 % | 10706.29 | 40420 | 3.96 % | 2887 |
| RapidArray | 2 | 0.40 % | 6037 | 0.17 % | 3018.50 | 1689 | 0.17 % | 844 |
| SP Switch | 42 | 8.40 % | 361555 | 10.25 % | 8608.45 | 74916 | 7.34 % | 1783 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

System Families

| System Families | Count | Percent | Rmax | | | Processors | | |
|----------------------------|-------|---------|--------------|---------|----------|------------|---------|-------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Appro HyperBlade | 2 | 0.40 % | 11538 | 0.33 % | 5769.00 | 3332 | 0.33 % | 1666 |
| Atipa Cluster | 4 | 0.80 % | 19002 | 0.54 % | 4750.50 | 4784 | 0.47 % | 1196 |
| Bull SMP Cluster | 1 | 0.20 % | 52840 | 1.50 % | 52840.00 | 9968 | 0.98 % | 9968 |
| Cray X1 | 4 | 0.80 % | 37377 | 1.06 % | 9344.25 | 2538 | 0.25 % | 634 |
| Cray XD1 | 2 | 0.40 % | 6037 | 0.17 % | 3018.50 | 1689 | 0.17 % | 844 |
| Cray XT3 | 9 | 1.80 % | 244757 | 6.94 % | 27195.22 | 61188 | 5.99 % | 6798 |
| Dalco Cluster | 1 | 0.20 % | 9604 | 0.27 % | 9604.00 | 1024 | 0.10 % | 1024 |
| Dell PowerEdge Cluster | 18 | 3.60 % | 255890 | 7.25 % | 14216.11 | 42128 | 4.13 % | 2340 |
| Fujitsu Cluster | 1 | 0.20 % | 8728 | 0.25 % | 8728.00 | 2048 | 0.20 % | 2048 |
| Fujitsu PRIMEQUEST | 1 | 0.20 % | 3119 | 0.09 % | 3119.00 | 640 | 0.06 % | 640 |
| Hitachi SR11000 | 6 | 1.20 % | 34276 | 0.97 % | 5712.67 | 356 | 0.03 % | 59 |
| Hitachi/Fujitsu Cluster | 1 | 0.20 % | 10350 | 0.29 % | 10350.00 | 2560 | 0.25 % | 2560 |
| HP AlphaServer SC/GS | 3 | 0.60 % | 22323 | 0.63 % | 7441.00 | 13768 | 1.35 % | 4589 |
| HP Blade Cluster | 64 | 12.80 % | 211492 | 6.00 % | 3304.56 | 64278 | 6.30 % | 1004 |
| HP Cluster Platform 3000 | 28 | 5.60 % | 98004 | 2.78 % | 3500.14 | 23914 | 2.34 % | 854 |
| HP Cluster Platform 3000BL | 13 | 2.60 % | 54444 | 1.54 % | 4188.00 | 6884 | 0.67 % | 529 |
| HP Cluster Platform 4000 | 17 | 3.40 % | 77898 | 2.21 % | 4582.24 | 23604 | 2.31 % | 1388 |
| HP Cluster Platform 4000BL | 4 | 0.80 % | 19882 | 0.56 % | 4970.50 | 4928 | 0.48 % | 1232 |
| HP Cluster Platform 6000 | 2 | 0.40 % | 11504 | 0.33 % | 5752.00 | 2440 | 0.24 % | 1220 |
| HP Superdome | 27 | 5.40 % | 87070 | 2.47 % | 3224.81 | 35866 | 3.51 % | 1328 |
| IBM BlueGene/L | 28 | 5.60 % | 661571 | 18.75 % | 23627.54 | 303104 | 29.69 % | 10825 |
| IBM Cluster | 168 | 33.60 % | 739251 | 20.96 % | 4400.30 | 213254 | 20.89 % | 1269 |
| IBM pSeries | 36 | 7.20 % | 320046 | 9.07 % | 8890.17 | 61456 | 6.02 % | 1707 |
| IBM QCD0C | 1 | 0.20 % | 4609 | 0.13 % | 4609.00 | 8192 | 0.80 % | 8192 |
| IBM SP | 2 | 0.40 % | 14608 | 0.41 % | 7304.00 | 14848 | 1.45 % | 7424 |

| System Families | Count | Percent | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
|-------------------------|------------|-------------|-----------------|-------------|----------|----------------|-------------|------|
| Intel Cluster | 1 | 0.20 % | 8564 | 0.24 % | 8564.00 | 1024 | 0.10 % | 1024 |
| Legend | 1 | 0.20 % | 4193 | 0.12 % | 4193.00 | 1024 | 0.10 % | 1024 |
| Linux Networx Evolocity | 7 | 1.40 % | 59127 | 1.68 % | 8446.71 | 15820 | 1.55 % | 2260 |
| NEC Vector | 3 | 0.60 % | 47697 | 1.35 % | 15899.00 | 5888 | 0.58 % | 1962 |
| NOW - PowerPC | 3 | 0.60 % | 32989 | 0.94 % | 10996.33 | 6296 | 0.62 % | 2098 |
| NOW - AMD | 3 | 0.60 % | 18737 | 0.53 % | 6245.67 | 6160 | 0.60 % | 2053 |
| NOW - Intel Itanium | 3 | 0.60 % | 30307 | 0.86 % | 10102.33 | 6640 | 0.65 % | 2213 |
| NOW - Intel Pentium | 3 | 0.60 % | 20560 | 0.58 % | 6853.33 | 7426 | 0.73 % | 2475 |
| PRIMEPOWER HPC2500 | 3 | 0.60 % | 16818 | 0.48 % | 5606.00 | 5440 | 0.53 % | 1813 |
| Rackable Foundation | 1 | 0.20 % | 2974 | 0.08 % | 2974.00 | 832 | 0.08 % | 832 |
| SGI Altix | 20 | 4.00 % | 191687 | 5.43 % | 9584.35 | 34992 | 3.43 % | 1749 |
| Sun Fire - Cluster | 9 | 1.80 % | 77736 | 2.20 % | 8637.33 | 20568 | 2.01 % | 2285 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Processors Per System

| Processors Per System | Count | Percent | Rmax | | | Processors | | |
|-----------------------|-------|---------|--------------|---------|-----------|------------|---------|--------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| 64k-128k | 1 | 0.20 % | 280600 | 7.95 % | 280600.00 | 131072 | 12.84 % | 131072 |
| 32k-64k | 1 | 0.20 % | 91290 | 2.59 % | 91290.00 | 40960 | 4.01 % | 40960 |
| 16k-32k | 2 | 0.40 % | 138730 | 3.93 % | 69365.00 | 42928 | 4.20 % | 21464 |
| 8k-16k | 17 | 3.40 % | 542883 | 15.39 % | 31934.29 | 159128 | 15.59 % | 9360 |
| 4k-8k | 19 | 3.80 % | 357877 | 10.15 % | 18835.63 | 95140 | 9.32 % | 5007 |
| 2049-4096 | 38 | 7.60 % | 372432 | 10.56 % | 9800.84 | 98884 | 9.69 % | 2602 |
| 1025-2048 | 185 | 37.00 % | 865405 | 24.53 % | 4677.86 | 262844 | 25.75 % | 1420 |
| 513-1024 | 192 | 38.40 % | 716777 | 20.32 % | 3733.21 | 171057 | 16.76 % | 890 |
| 257-512 | 36 | 7.20 % | 117710 | 3.34 % | 3269.72 | 17836 | 1.75 % | 495 |
| 129-256 | 3 | 0.60 % | 9630 | 0.27 % | 3210.00 | 696 | 0.07 % | 232 |
| 65-128 | 2 | 0.40 % | 18072 | 0.51 % | 9036.00 | 160 | 0.02 % | 80 |
| 33-64 | 4 | 0.80 % | 16204 | 0.46 % | 4051.00 | 196 | 0.02 % | 49 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Processors

| Processors | Count | Percent | Rmax | | | Processors | | |
|--------------------------|------------|-------------|----------------|-------------|----------|----------------|-------------|-------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Pentium 4 Xeon | 117 | 23.40 % | 431915 | 12.24 % | 3691.58 | 127730 | 12.51 % | 1091 |
| Xeon EM64T | 77 | 15.40 % | 343426 | 9.74 % | 4460.08 | 82970 | 8.13 % | 1077 |
| Opteron Dual Core | 76 | 15.20 % | 582367 | 16.51 % | 7662.72 | 176728 | 17.31 % | 2325 |
| Opteron | 37 | 7.40 % | 184294 | 5.22 % | 4980.92 | 53333 | 5.22 % | 1441 |
| Itanium 2 | 35 | 7.00 % | 316934 | 8.98 % | 9055.26 | 60862 | 5.96 % | 1738 |
| Xeon 51xx (Woodcrest) | 31 | 6.20 % | 247250 | 7.01 % | 7975.81 | 37644 | 3.69 % | 1214 |
| PowerPC 440 | 29 | 5.80 % | 666180 | 18.88 % | 22971.72 | 311296 | 30.49 % | 10734 |
| PowerPC 970 | 18 | 3.60 % | 169698 | 4.81 % | 9427.67 | 28536 | 2.80 % | 1585 |
| POWER5 | 17 | 3.40 % | 149382 | 4.23 % | 8787.18 | 23858 | 2.34 % | 1403 |
| POWER5+ | 12 | 2.40 % | 129492 | 3.67 % | 10791.00 | 18392 | 1.80 % | 1532 |
| POWER4+ | 11 | 2.20 % | 67547 | 1.91 % | 6140.64 | 16554 | 1.62 % | 1504 |
| PA-8700+ | 9 | 1.80 % | 25632 | 0.73 % | 2848.00 | 13824 | 1.35 % | 1536 |
| PA-8900 | 8 | 1.60 % | 28150 | 0.80 % | 3518.75 | 12004 | 1.18 % | 1500 |
| Cray X1 | 4 | 0.80 % | 37377 | 1.06 % | 9344.25 | 2538 | 0.25 % | 634 |
| PA-8800 | 3 | 0.60 % | 10004 | 0.28 % | 3334.67 | 4880 | 0.48 % | 1626 |
| SPARC64 V | 3 | 0.60 % | 16818 | 0.48 % | 5606.00 | 5440 | 0.53 % | 1813 |
| Alpha | 3 | 0.60 % | 22323 | 0.63 % | 7441.00 | 13768 | 1.35 % | 4589 |
| NEC | 3 | 0.60 % | 47697 | 1.35 % | 15899.00 | 5888 | 0.58 % | 1962 |
| POWER4 | 2 | 0.40 % | 7901 | 0.22 % | 3950.50 | 3008 | 0.29 % | 1504 |
| POWER3 | 2 | 0.40 % | 14608 | 0.41 % | 7304.00 | 14848 | 1.45 % | 7424 |
| Pentium 4 | 1 | 0.20 % | 3064 | 0.09 % | 3064.00 | 872 | 0.09 % | 872 |
| Low Voltage Pentium Xeon | 1 | 0.20 % | 10350 | 0.29 % | 10350.00 | 2560 | 0.25 % | 2560 |
| Xeon 50xx (Dempsy) | 1 | 0.20 % | 15200 | 0.43 % | 15200.00 | 3368 | 0.33 % | 3368 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Processor Families

| Processor Families | Count | Percent | Rmax | | | Processors | | |
|--------------------|-------|---------|--------------|---------|----------|------------|---------|------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Intel IA-32 | 119 | 23.80 % | 445329 | 12.62 % | 3742.26 | 131162 | 12.85 % | 1102 |
| AMD x86_64 | 113 | 22.60 % | 766661 | 21.73 % | 6784.61 | 230061 | 22.54 % | 2035 |
| Intel EM64T | 109 | 21.80 % | 605876 | 17.18 % | 5558.50 | 123982 | 12.14 % | 1137 |
| Power | 91 | 18.20 % | 1204808 | 34.15 % | 13239.65 | 416492 | 40.80 % | 4576 |
| Intel IA-64 | 35 | 7.00 % | 316934 | 8.98 % | 9055.26 | 60862 | 5.96 % | 1738 |
| PA-RISC | 20 | 4.00 % | 63786 | 1.81 % | 3189.30 | 30708 | 3.01 % | 1535 |
| Cray | 4 | 0.80 % | 37377 | 1.06 % | 9344.25 | 2538 | 0.25 % | 634 |
| Sparc | 3 | 0.60 % | 16818 | 0.48 % | 5606.00 | 5440 | 0.53 % | 1813 |
| Alpha | 3 | 0.60 % | 22323 | 0.63 % | 7441.00 | 13768 | 1.35 % | 4589 |
| NEC | 3 | 0.60 % | 47697 | 1.35 % | 15899.00 | 5888 | 0.58 % | 1962 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Processor Architecutre

| | | | Rmax | | | Processors | | |
|------------------------|-------|---------|--------------|---------|----------|------------|---------|------|
| Processor Architecutre | Count | Percent | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| Scalar | 493 | 98.60 % | 3442535 | 97.59 % | 6982.83 | 1012475 | 99.17 % | 2053 |
| Vector | 7 | 1.40 % | 85074 | 2.41 % | 12153.43 | 8426 | 0.83 % | 1203 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Installation Year

| Installation Year | Count | Percent | Rmax | | | Processors | | |
|-------------------|------------|-------------|----------------|-------------|----------|----------------|-------------|------|
| | | | Sum (GFlops) | Share | Mean | Sum | Share | Mean |
| 2000 | 1 | 0.20 % | 7304 | 0.21 % | 7304.00 | 8192 | 0.80 % | 8192 |
| 2001 | 2 | 0.40 % | 8443 | 0.24 % | 4221.50 | 5576 | 0.55 % | 2788 |
| 2002 | 6 | 1.20 % | 73421 | 2.08 % | 12236.83 | 26112 | 2.56 % | 4352 |
| 2003 | 10 | 2.00 % | 62810 | 1.78 % | 6281.00 | 15920 | 1.56 % | 1592 |
| 2004 | 44 | 8.80 % | 275669 | 7.81 % | 6265.20 | 76986 | 7.54 % | 1749 |
| 2005 | 146 | 29.20 % | 1072288 | 30.40 % | 7344.44 | 358391 | 35.11 % | 2454 |
| 2006 | 291 | 58.20 % | 2027674 | 57.48 % | 6967.95 | 529724 | 51.89 % | 1820 |
| All | 500 | 100% | 3527610 | 100% | | 1020901 | 100% | |

Vendors/Customer Segments (Systems)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|--------------------------------|-----------|------------|------------|------------|------------|-----------|------------|
| Appro International | - | - | - | - | 2 | - | 2 |
| Atipa Technology | - | - | - | - | 4 | - | 4 |
| Bull SA | - | - | - | - | 1 | - | 1 |
| California Digital Corporation | - | - | - | - | 1 | - | 1 |
| Cray Inc. | 1 | 3 | - | 1 | 9 | 1 | 15 |
| DALCO AG Switzerland | - | - | - | 1 | - | - | 1 |
| Dawning | - | - | - | - | 1 | - | 1 |
| Dell | 16 | - | - | - | 2 | - | 18 |
| Fujitsu | 2 | - | - | - | 3 | - | 5 |
| Galactic Computing | - | - | - | 1 | - | - | 1 |
| Hewlett-Packard | 9 | 13 | 4 | 117 | 12 | 2 | 157 |
| Hitachi | 1 | - | - | - | 5 | - | 6 |
| Hitachi/Fujitsu | 1 | - | - | - | - | - | 1 |
| HPTi | - | - | - | - | 1 | - | 1 |
| IBM | 39 | 4 | - | 121 | 70 | 3 | 237 |
| IBM/HP | - | - | - | 1 | - | - | 1 |
| Intel | - | - | - | 1 | - | - | 1 |
| lenovo | 1 | - | - | - | - | - | 1 |
| Linux Networx | 1 | - | - | - | 6 | - | 7 |
| NEC | - | - | - | 1 | 2 | - | 3 |
| NEC/Sun | 1 | - | - | - | - | - | 1 |
| Rackable Systems | 1 | - | - | - | - | - | 1 |
| Self-made | 2 | - | - | 1 | 2 | - | 5 |
| SGI | 7 | - | - | - | 12 | 1 | 20 |
| Sun Microsystems | 4 | - | - | 1 | - | 4 | 9 |
| Total | 86 | 20 | 4 | 246 | 133 | 11 | 500 |

Vendors/Customer Segments (Performance in GFlops)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|--------------------------------|---------------|--------------|--------------|---------------|----------------|--------------|----------------|
| Appro International | - | - | - | - | 11538 | - | 11538 |
| Atipa Technology | - | - | - | - | 19002 | - | 19002 |
| Bull SA | - | - | - | - | 52840 | - | 52840 |
| California Digital Corporation | - | - | - | - | 19940 | - | 19940 |
| Cray Inc. | 7936 | 38293 | - | 2996 | 210966 | 27980 | 288171 |
| DALCO AG Switzerland | - | - | - | 9604 | - | - | 9604 |
| Dawning | - | - | - | - | 8061 | - | 8061 |
| Dell | 160500 | - | - | - | 95390 | - | 255890 |
| Fujitsu | 11412 | - | - | - | 17253 | - | 28665 |
| Galactic Computing | - | - | - | 3413 | - | - | 3413 |
| Hewlett-Packard | 53565 | 41028 | 15791 | 397338 | 64150 | 7416 | 579288 |
| Hitachi | 4596 | - | - | - | 29680 | - | 34276 |
| Hitachi/Fujitsu | 10350 | - | - | - | - | - | 10350 |
| HPTi | - | - | - | - | 3337 | - | 3337 |
| IBM | 311579 | 16193 | - | 457639 | 946333 | 18709 | 1750453 |
| IBM/HP | - | - | - | 3782 | - | - | 3782 |
| Intel | - | - | - | 8564 | - | - | 8564 |
| lenovo | 4193 | - | - | - | - | - | 4193 |
| Linux Networx | 6194 | - | - | - | 52933 | - | 59127 |
| NEC | - | - | - | 8923 | 38774 | - | 47697 |
| NEC/Sun | 47380 | - | - | - | - | - | 47380 |
| Rackable Systems | 2974 | - | - | - | - | - | 2974 |
| Self-made | 16809 | - | - | 16180 | 10222 | - | 43211 |
| SGI | 64772 | - | - | - | 123844 | 3071 | 191687 |
| Sun Microsystems | 25609 | - | - | 3146 | - | 15411 | 44166 |
| Total | 727869 | 95514 | 15791 | 911585 | 1704263 | 72587 | 3527609 |

Continents/Customer Segments (Systems)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|--------------|----------|------------|------------|----------|----------|--------|-------|
| Africa | - | - | - | 2 | - | - | 2 |
| Americas | 44 | 14 | 3 | 159 | 90 | 11 | 321 |
| Asia | 12 | 1 | - | 38 | 28 | - | 79 |
| Europe | 29 | 5 | 1 | 43 | 15 | - | 93 |
| Oceania | 1 | - | - | 4 | - | - | 5 |
| Total | 86 | 20 | 4 | 246 | 133 | 11 | 500 |

Continents/Customer Segments (Performance in GFlops)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|--------------|-----------------|-------------------|-------------------|-----------------|-----------------|---------------|---------|
| Africa | - | - | - | 5696 | - | - | 5696 |
| Americas | 320998 | 47406 | 12128 | 589557 | 1281653 | 72587 | 2324329 |
| Asia | 102451 | 3959 | - | 126735 | 245059 | - | 478204 |
| Europe | 295446 | 44149 | 3664 | 174145 | 177551 | - | 694955 |
| Oceania | 8974 | - | - | 15452 | - | - | 24426 |
| Total | 727869 | 95514 | 15792 | 911585 | 1704263 | 72587 | 3527610 |

Regions/Customer Segments (Systems)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|---------------------------|----------|------------|------------|----------|----------|--------|-------|
| Australia and New Zealand | 1 | - | - | 4 | - | - | 5 |
| Central America | 1 | - | - | - | - | - | 1 |
| Eastern Asia | 10 | 1 | - | 21 | 24 | - | 56 |
| Eastern Europe | 1 | - | - | 1 | - | - | 2 |
| North America | 42 | 14 | 3 | 156 | 90 | 11 | 316 |
| Northern Europe | 10 | 2 | - | 21 | 4 | - | 37 |
| South America | 1 | - | - | 3 | - | - | 4 |
| South-central Asia | - | - | - | 8 | 2 | - | 10 |
| South-eastern Asia | 1 | - | - | 3 | 1 | - | 5 |
| Southern Africa | - | - | - | 2 | - | - | 2 |
| Southern Europe | 11 | - | - | 3 | 1 | - | 15 |
| Western Asia | 1 | - | - | 6 | 1 | - | 8 |
| Western Europe | 7 | 3 | 1 | 18 | 10 | - | 39 |
| Total | 86 | 20 | 4 | 246 | 133 | 11 | 500 |

Regions/Customer Segments (Performance in GFlops)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|---------------------------|---------------|--------------|--------------|---------------|----------------|--------------|----------------|
| Australia and New Zealand | 8974 | - | - | 15452 | - | - | 24426 |
| Central America | 5090 | - | - | - | - | - | 5090 |
| Eastern Asia | 95771 | 3959 | - | 68020 | 230365 | - | 398115 |
| Eastern Europe | 6646 | - | - | 3059 | - | - | 9705 |
| North America | 312725 | 47406 | 12128 | 579071 | 1281653 | 72587 | 2305570 |
| Northern Europe | 69609 | 35933 | - | 77120 | 40363 | - | 223025 |
| South America | 3182 | - | - | 10486 | - | - | 13668 |
| South-central Asia | - | - | - | 27269 | 6893 | - | 34162 |
| South-eastern Asia | 3392 | - | - | 11970 | 3087 | - | 18449 |
| Southern Africa | - | - | - | 5696 | - | - | 5696 |
| Southern Europe | 113803 | - | - | 8982 | 7987 | - | 130772 |
| Western Asia | 3288 | - | - | 19476 | 4713 | - | 27477 |
| Western Europe | 105389 | 8216 | 3664 | 84984 | 129201 | - | 331454 |
| Total | 727869 | 95514 | 15792 | 911585 | 1704262 | 72587 | 3527609 |

Segment/Application Area (Systems)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|--------------------------------|-----------|------------|------------|------------|------------|-----------|------------|
| Aerospace | - | - | - | - | 2 | - | 2 |
| Automotive | - | - | - | 1 | - | - | 1 |
| Benchmarking | - | - | - | - | - | 6 | 6 |
| CFD | - | - | - | 2 | - | - | 2 |
| Database | - | - | - | 1 | - | - | 1 |
| Defense | - | 2 | - | - | 1 | - | 3 |
| Digital Content Creation | - | - | - | 1 | - | - | 1 |
| Digital Media | - | - | - | 3 | - | - | 3 |
| Electronics | - | - | - | 2 | - | - | 2 |
| Energy | - | - | - | 1 | 2 | - | 3 |
| Environment | - | - | - | - | 1 | - | 1 |
| Finance | - | - | - | 29 | - | - | 29 |
| Gaming | - | - | - | 7 | - | - | 7 |
| Geophysics | - | - | - | 22 | 1 | - | 23 |
| Image Proc./Rendering | - | - | - | 1 | - | - | 1 |
| Information Processing Service | - | - | - | 3 | 1 | - | 4 |
| Life Science | - | - | - | - | 1 | - | 1 |
| Media | - | - | - | 1 | - | - | 1 |
| Medicine | 1 | - | - | - | - | - | 1 |
| Not Specified | 71 | 14 | 4 | 113 | 79 | 5 | 286 |
| Pharmaceutics | - | - | - | 1 | - | - | 1 |
| Research | 14 | 4 | - | 1 | 27 | - | 46 |
| Retail | - | - | - | 1 | - | - | 1 |
| Semiconductor | - | - | - | 50 | - | - | 50 |
| Telecomm | - | - | - | 6 | - | - | 6 |
| Weather and Climate Research | - | - | - | - | 17 | - | 17 |
| Weather Forecasting | - | - | - | - | 1 | - | 1 |
| Total | 86 | 20 | 4 | 246 | 133 | 11 | 500 |

Segment/Application Area (Performance in GFlops)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|--------------------------------|---------------|--------------|--------------|---------------|----------------|--------------|----------------|
| Aerospace | - | - | - | - | 57276 | - | 57276 |
| Automotive | - | - | - | 3068 | - | - | 3068 |
| Benchmarking | - | - | - | - | - | 22827 | 22827 |
| CFD | - | - | - | 25784 | - | - | 25784 |
| Database | - | - | - | 2764 | - | - | 2764 |
| Defense | - | 35302 | - | - | 52840 | - | 88142 |
| Digital Content Creation | - | - | - | 3460 | - | - | 3460 |
| Digital Media | - | - | - | 10324 | - | - | 10324 |
| Electronics | - | - | - | 6866 | - | - | 6866 |
| Energy | - | - | - | 9433 | 8070 | - | 17503 |
| Environment | - | - | - | - | 35860 | - | 35860 |
| Finance | - | - | - | 101772 | - | - | 101772 |
| Gaming | - | - | - | 20918 | - | - | 20918 |
| Geophysics | - | - | - | 88157 | 3755 | - | 91912 |
| Image Proc./Rendering | - | - | - | 3146 | - | - | 3146 |
| Information Processing Service | - | - | - | 16206 | 91290 | - | 107496 |
| Life Science | - | - | - | - | 3138 | - | 3138 |
| Media | - | - | - | 3755 | - | - | 3755 |
| Medicine | 62630 | - | - | - | - | - | 62630 |
| Not Specified | 481101 | 44019 | 15791 | 406656 | 585146 | 49760 | 1582473 |
| Pharmaceuticals | - | - | - | 6619 | - | - | 6619 |
| Research | 184138 | 16193 | - | 8564 | 726002 | - | 934897 |
| Retail | - | - | - | 2932 | - | - | 2932 |
| Semiconductor | - | - | - | 173390 | - | - | 173390 |
| Telecomm | - | - | - | 17773 | - | - | 17773 |
| Weather and Climate Research | - | - | - | - | 136508 | - | 136508 |
| Weather Forecasting | - | - | - | - | 4379 | - | 4379 |
| Total | 727869 | 95514 | 15791 | 911587 | 1704264 | 72587 | 3527612 |

Vendors/Architecture Type (Systems)

| | Cluster | Constellations | MPP | Total |
|--------------------------------|---------|----------------|-----|-------|
| Appro International | 2 | - | - | 2 |
| Atipa Technology | 4 | - | - | 4 |
| Bull SA | - | 1 | - | 1 |
| California Digital Corporation | 1 | - | - | 1 |
| Cray Inc. | 2 | - | 13 | 15 |
| DALCO AG Switzerland | 1 | - | - | 1 |
| Dawning | 1 | - | - | 1 |
| Dell | 18 | - | - | 18 |
| Fujitsu | 2 | 3 | - | 5 |
| Galactic Computing | 1 | - | - | 1 |
| Hewlett-Packard | 130 | 27 | - | 157 |
| Hitachi | - | - | 6 | 6 |
| Hitachi/Fujitsu | 1 | - | - | 1 |
| HPTi | 1 | - | - | 1 |
| IBM | 171 | - | 66 | 237 |
| IBM/HP | 1 | - | - | 1 |
| Intel | 1 | - | - | 1 |
| lenovo | 1 | - | - | 1 |
| Linux Networx | 7 | - | - | 7 |
| NEC | - | - | 3 | 3 |
| NEC/Sun | 1 | - | - | 1 |
| Rackable Systems | 1 | - | - | 1 |
| Self-made | 5 | - | - | 5 |
| SGI | - | - | 20 | 20 |
| Sun Microsystems | 9 | - | - | 9 |
| Total | 361 | 31 | 108 | 500 |

Vendors/Architecture Type (Performance in GFlops)

| | Cluster | Constellations | MPP | Total |
|--------------------------------|----------------|----------------|----------------|----------------|
| Appro International | 11538 | - | - | 11538 |
| Atipa Technology | 19002 | - | - | 19002 |
| Bull SA | - | 52840 | - | 52840 |
| California Digital Corporation | 19940 | - | - | 19940 |
| Cray Inc. | 6037 | - | 282134 | 288171 |
| DALCO AG Switzerland | 9604 | - | - | 9604 |
| Dawning | 8061 | - | - | 8061 |
| Dell | 255890 | - | - | 255890 |
| Fujitsu | 11847 | 16818 | - | 28665 |
| Galactic Computing | 3413 | - | - | 3413 |
| Hewlett-Packard | 492219 | 87070 | - | 579289 |
| Hitachi | - | - | 34276 | 34276 |
| Hitachi/Fujitsu | 10350 | - | - | 10350 |
| HPTi | 3337 | - | - | 3337 |
| IBM | 754227 | - | 996225 | 1750452 |
| IBM/HP | 3782 | - | - | 3782 |
| Intel | 8564 | - | - | 8564 |
| lenovo | 4193 | - | - | 4193 |
| Linux Networx | 59127 | - | - | 59127 |
| NEC | - | - | 47697 | 47697 |
| NEC/Sun | 47380 | - | - | 47380 |
| Rackable Systems | 2974 | - | - | 2974 |
| Self-made | 43211 | - | - | 43211 |
| SGI | - | - | 191687 | 191687 |
| Sun Microsystems | 44166 | - | - | 44166 |
| Total | 1818862 | 156728 | 1552019 | 3527609 |

Continents/Architecture Type (Systems)

| | Cluster | Constellations | MPP | Total |
|--------------|----------------|-----------------------|------------|--------------|
| Africa | - | 2 | - | 2 |
| Americas | 248 | 11 | 62 | 321 |
| Asia | 47 | 10 | 22 | 79 |
| Europe | 62 | 8 | 23 | 93 |
| Oceania | 4 | - | 1 | 5 |
| Total | 361 | 31 | 108 | 500 |

Continents/Architecture Type (Performance in GFlops)

| | Cluster | Constellations | MPP | Total |
|--------------|----------------|-----------------------|------------|---------|
| Africa | - | 5696 | - | 5696 |
| Americas | 1234734 | 37319 | 1052276 | 2324329 |
| Asia | 224273 | 38876 | 215055 | 478204 |
| Europe | 344404 | 74837 | 275714 | 694955 |
| Oceania | 15452 | - | 8974 | 24426 |
| Total | 1818863 | 156728 | 1552019 | 3527610 |

Regions/Architecture Type (Systems)

| | Cluster | Constellations | MPP | Total |
|---------------------------|---------|----------------|-----|-------|
| Australia and New Zealand | 4 | - | 1 | 5 |
| Central America | 1 | - | - | 1 |
| Eastern Asia | 27 | 9 | 20 | 56 |
| Eastern Europe | 1 | 1 | - | 2 |
| North America | 243 | 11 | 62 | 316 |
| Northern Europe | 27 | 3 | 7 | 37 |
| South America | 4 | - | - | 4 |
| South-central Asia | 10 | - | - | 10 |
| South-eastern Asia | 3 | 1 | 1 | 5 |
| Southern Africa | - | 2 | - | 2 |
| Southern Europe | 12 | 2 | 1 | 15 |
| Western Asia | 7 | - | 1 | 8 |
| Western Europe | 22 | 2 | 15 | 39 |
| Total | 361 | 31 | 108 | 500 |

Regions/Architecture Type (Performance in GFlops)

| | Cluster | Constellations | MPP | Total |
|---------------------------|----------------|-----------------------|------------|---------|
| Australia and New Zealand | 15452 | - | 8974 | 24426 |
| Central America | 5090 | - | - | 5090 |
| Eastern Asia | 155222 | 35944 | 206950 | 398116 |
| Eastern Europe | 6646 | 3059 | - | 9705 |
| North America | 1215975 | 37319 | 1052276 | 2305570 |
| Northern Europe | 119846 | 9809 | 93370 | 223025 |
| South America | 13668 | - | - | 13668 |
| South-central Asia | 34162 | - | - | 34162 |
| South-eastern Asia | 12125 | 2932 | 3392 | 18449 |
| Southern Africa | - | 5696 | - | 5696 |
| Southern Europe | 121684 | 5696 | 3392 | 130772 |
| Western Asia | 22764 | - | 4713 | 27477 |
| Western Europe | 96228 | 56273 | 178953 | 331454 |
| Total | 1818862 | 156728 | 1552020 | 3527610 |

Vendors/Continents (Systems)

| | Africa | Americas | Asia | Europe | Oceania | Total |
|--------------------------------|----------|------------|-----------|-----------|----------|------------|
| Appro International | - | 2 | - | - | - | 2 |
| Atipa Technology | - | 4 | - | - | - | 4 |
| Bull SA | - | - | - | 1 | - | 1 |
| California Digital Corporation | - | 1 | - | - | - | 1 |
| Cray Inc. | - | 11 | 2 | 2 | - | 15 |
| DALCO AG Switzerland | - | - | - | 1 | - | 1 |
| Dawning | - | - | 1 | - | - | 1 |
| Dell | - | 15 | - | 3 | - | 18 |
| Fujitsu | - | - | 5 | - | - | 5 |
| Galactic Computing | - | - | 1 | - | - | 1 |
| Hewlett-Packard | 2 | 94 | 24 | 36 | 1 | 157 |
| Hitachi | - | - | 6 | - | - | 6 |
| Hitachi/Fujitsu | - | - | 1 | - | - | 1 |
| HPTi | - | 1 | - | - | - | 1 |
| IBM | - | 160 | 29 | 45 | 3 | 237 |
| IBM/HP | - | 1 | - | - | - | 1 |
| Intel | - | 1 | - | - | - | 1 |
| lenovo | - | - | 1 | - | - | 1 |
| Linux Networx | - | 6 | - | 1 | - | 7 |
| NEC | - | - | 2 | 1 | - | 3 |
| NEC/Sun | - | - | 1 | - | - | 1 |
| Rackable Systems | - | 1 | - | - | - | 1 |
| Self-made | - | 4 | 1 | - | - | 5 |
| SGI | - | 12 | 5 | 2 | 1 | 20 |
| Sun Microsystems | - | 8 | - | 1 | - | 9 |
| Total | 2 | 321 | 79 | 93 | 5 | 500 |

Vendors/Continents (Performance in GFlops)

| | Africa | Americas | Asia | Europe | Oceania | Total |
|--------------------------------|-------------|----------------|---------------|---------------|--------------|----------------|
| Appro International | - | 11538 | - | - | - | 11538 |
| Atipa Technology | - | 19002 | - | - | - | 19002 |
| Bull SA | - | - | - | 52840 | - | 52840 |
| California Digital Corporation | - | 19940 | - | - | - | 19940 |
| Cray Inc. | - | 229787 | 18702 | 39682 | - | 288171 |
| DALCO AG Switzerland | - | - | - | 9604 | - | 9604 |
| Dawning | - | - | 8061 | - | - | 8061 |
| Dell | - | 228217 | - | 27673 | - | 255890 |
| Fujitsu | - | - | 28665 | - | - | 28665 |
| Galactic Computing | - | - | 3413 | - | - | 3413 |
| Hewlett-Packard | 5696 | 351841 | 74475 | 142371 | 4908 | 579291 |
| Hitachi | - | - | 34276 | - | - | 34276 |
| Hitachi/Fujitsu | - | - | 10350 | - | - | 10350 |
| HPTi | - | 3337 | - | - | - | 3337 |
| IBM | - | 1204209 | 167449 | 368249 | 10544 | 1750451 |
| IBM/HP | - | 3782 | - | - | - | 3782 |
| Intel | - | 8564 | - | - | - | 8564 |
| lenovo | - | - | 4193 | - | - | 4193 |
| Linux Networx | - | 52933 | - | 6194 | - | 59127 |
| NEC | - | - | 38774 | 8923 | - | 47697 |
| NEC/Sun | - | - | 47380 | - | - | 47380 |
| Rackable Systems | - | 2974 | - | - | - | 2974 |
| Self-made | - | 39883 | 3328 | - | - | 43211 |
| SGI | - | 107302 | 39138 | 36273 | 8974 | 191687 |
| Sun Microsystems | - | 41020 | - | 3146 | - | 44166 |
| Total | 5696 | 2324329 | 478204 | 694955 | 24426 | 3527610 |

Vendors/Interconnect (Systems)

| | Cray Interconnect | Crossbar | Gigabit Ethernet | Infiniband | Mixed | Myrinet | NUMALink | Proprietary | Quadrics | RapidArray | SP Switch | Total |
|--------------------------------|-------------------|-----------|------------------|------------|----------|-----------|-----------|-------------|-----------|------------|-----------|------------|
| Appro International | - | - | - | 2 | - | - | - | - | - | - | - | 2 |
| Atipa Technology | - | - | - | - | - | 4 | - | - | - | - | - | 4 |
| Bull SA | - | - | - | - | - | - | - | - | 1 | - | - | 1 |
| California Digital Corporation | - | - | - | - | - | - | - | - | 1 | - | - | 1 |
| Cray Inc. | 9 | 4 | - | - | - | - | - | - | - | 2 | - | 15 |
| DALCO AG Switzerland | - | - | - | - | - | - | - | - | 1 | - | - | 1 |
| Dawning | - | - | - | - | - | 1 | - | - | - | - | - | 1 |
| Dell | - | - | 3 | 10 | 1 | 4 | - | - | - | - | - | 18 |
| Fujitsu | - | 3 | - | 1 | 1 | - | - | - | - | - | - | 5 |
| Galactic Computing | - | - | - | 1 | - | - | - | - | - | - | - | 1 |
| Hewlett-Packard | - | - | 82 | 27 | - | 41 | - | - | 7 | - | - | 157 |
| Hitachi | - | - | - | - | - | - | - | - | - | - | 6 | 6 |
| Hitachi/Fujitsu | - | 1 | - | - | - | - | - | - | - | - | - | 1 |
| HPTi | - | - | - | - | - | 1 | - | - | - | - | - | 1 |
| IBM | - | - | 124 | 23 | - | 23 | - | 29 | 2 | - | 36 | 237 |
| IBM/HP | - | - | 1 | - | - | - | - | - | - | - | - | 1 |
| Intel | - | - | - | 1 | - | - | - | - | - | - | - | 1 |
| lenovo | - | - | - | - | - | - | - | - | 1 | - | - | 1 |
| Linux Networx | - | - | - | 4 | - | 2 | - | - | 1 | - | - | 7 |
| NEC | - | 3 | - | - | - | - | - | - | - | - | - | 3 |
| NEC/Sun | - | - | - | 1 | - | - | - | - | - | - | - | 1 |
| Rackable Systems | - | - | - | 1 | - | - | - | - | - | - | - | 1 |
| Self-made | - | - | - | 2 | - | 2 | - | 1 | - | - | - | 5 |
| SGI | - | - | - | - | 3 | - | 17 | - | - | - | - | 20 |
| Sun Microsystems | - | - | 3 | 5 | - | 1 | - | - | - | - | - | 9 |
| Total | 9 | 11 | 213 | 78 | 5 | 79 | 17 | 30 | 14 | 2 | 42 | 500 |

Vendors/Interconnect (Performance in GFlops)

| | Cray Interconnect | Crossbar | Gigabit Ethernet | Infiniband | Mixed | Myrinet | NUMALink | Proprietary | Quadrics | RapidArray | SP Switch | Total |
|--------------------------------|-------------------|----------|------------------|------------|-------|---------|----------|-------------|----------|------------|-----------|---------|
| Appro International | - | - | - | 11538 | - | - | - | - | - | - | - | 11538 |
| Atipa Technology | - | - | - | - | - | 19002 | - | - | - | - | - | 19002 |
| Bull SA | - | - | - | - | - | - | - | - | 52840 | - | - | 52840 |
| California Digital Corporation | - | - | - | - | - | - | - | - | 19940 | - | - | 19940 |
| Cray Inc. | 244757 | 37377 | - | - | - | - | - | - | - | 6037 | - | 288171 |
| DALCO AG Switzerland | - | - | - | - | - | - | - | - | 9604 | - | - | 9604 |
| Dawning | - | - | - | - | - | 8061 | - | - | - | - | - | 8061 |
| Dell | - | - | 19909 | 201315 | 4404 | 30262 | - | - | - | - | - | 255890 |
| Fujitsu | - | 16818 | - | 3119 | 8728 | - | - | - | - | - | - | 28665 |
| Galactic Computing | - | - | - | 3413 | - | - | - | - | - | - | - | 3413 |
| Hewlett-Packard | - | - | 274328 | 129909 | - | 132193 | - | - | 42859 | - | - | 579289 |
| Hitachi | - | - | - | - | - | - | - | - | - | - | 34276 | 34276 |
| Hitachi/Fujitsu | - | 10350 | - | - | - | - | - | - | - | - | - | 10350 |
| HPTi | - | - | - | - | - | 3337 | - | - | - | - | - | 3337 |
| IBM | - | - | 458872 | 110857 | - | 174446 | - | 666180 | 12818 | - | 327279 | 1750452 |
| IBM/HP | - | - | 3782 | - | - | - | - | - | - | - | - | 3782 |
| Intel | - | - | - | 8564 | - | - | - | - | - | - | - | 8564 |
| lenovo | - | - | - | - | - | - | - | - | 4193 | - | - | 4193 |
| Linux Networx | - | - | - | 32792 | - | 18701 | - | - | 7634 | - | - | 59127 |
| NEC | - | 47697 | - | - | - | - | - | - | - | - | - | 47697 |
| NEC/Sun | - | - | - | 47380 | - | - | - | - | - | - | - | 47380 |
| Rackable Systems | - | - | - | 2974 | - | - | - | - | - | - | - | 2974 |
| Self-made | - | - | - | 19144 | - | 20739 | - | 3328 | - | - | - | 43211 |
| SGI | - | - | - | - | 61066 | - | 130621 | - | - | - | - | 191687 |
| Sun Microsystems | - | - | 9088 | 21268 | - | 13810 | - | - | - | - | - | 44166 |
| Total | 244757 | 112242 | 765979 | 592273 | 74198 | 420551 | 130621 | 669508 | 149888 | 6037 | 361555 | 3527609 |

Vendors/Proc. Family (Systems)

| | Alpha | AMD x86_64 | Cray | Intel EM64 T | Intel IA- 32 | Intel IA- 64 | NEC | PA-RISC | Power | Sparc | Total |
|--------------------------------|----------|---------------|----------|--------------------|--------------------|--------------------|----------|-----------|-----------|----------|------------|
| Appro International | - | 2 | - | - | - | - | - | - | - | - | 2 |
| Atipa Technology | - | 4 | - | - | - | - | - | - | - | - | 4 |
| Bull SA | - | - | - | - | - | 1 | - | - | - | - | 1 |
| California Digital Corporation | - | - | - | - | - | 1 | - | - | - | - | 1 |
| Cray Inc. | - | 11 | 4 | - | - | - | - | - | - | - | 15 |
| DALCO AG Switzerland | - | - | - | 1 | - | - | - | - | - | - | 1 |
| Dawning | - | 1 | - | - | - | - | - | - | - | - | 1 |
| Dell | - | - | - | 15 | 3 | - | - | - | - | - | 18 |
| Fujitsu | - | - | - | - | 1 | 1 | - | - | - | 3 | 5 |
| Galactic Computing | - | - | - | - | 1 | - | - | - | - | - | 1 |
| Hewlett-Packard | 3 | 24 | - | 17 | 84 | 9 | - | 20 | - | - | 157 |
| Hitachi | - | - | - | - | - | - | - | - | 6 | - | 6 |
| Hitachi/Fujitsu | - | - | - | - | 1 | - | - | - | - | - | 1 |
| HPTi | - | - | - | - | 1 | - | - | - | - | - | 1 |
| IBM | - | 55 | - | 74 | 24 | 2 | - | - | 82 | - | 237 |
| IBM/HP | - | 1 | - | - | - | - | - | - | - | - | 1 |
| Intel | - | - | - | 1 | - | - | - | - | - | - | 1 |
| lenovo | - | - | - | - | - | 1 | - | - | - | - | 1 |
| Linux Networx | - | 4 | - | 1 | 2 | - | - | - | - | - | 7 |
| NEC | - | - | - | - | - | - | 3 | - | - | - | 3 |
| NEC/Sun | - | 1 | - | - | - | - | - | - | - | - | 1 |
| Rackable Systems | - | 1 | - | - | - | - | - | - | - | - | 1 |
| Self-made | - | 1 | - | - | 1 | - | - | - | 3 | - | 5 |
| SGI | - | - | - | - | - | 20 | - | - | - | - | 20 |
| Sun Microsystems | - | 8 | - | - | 1 | - | - | - | - | - | 9 |
| Total | 3 | 113 | 4 | 109 | 119 | 35 | 3 | 20 | 91 | 3 | 500 |

Vendors/Proc. Family (Performance in GFlops)

| | Alpha | AMD x86_64 | Cray | Intel EM64 T | Intel IA-32 | Intel IA-64 | NEC | PA-RISC | Power | Sparc | Total |
|--------------------------------|-------|---------------|-------|--------------------|----------------|----------------|-------|---------|---------|-------|---------|
| Appro International | - | 11538 | - | - | - | - | - | - | - | - | 11538 |
| Atipa Technology | - | 19002 | - | - | - | - | - | - | - | - | 19002 |
| Bull SA | - | - | - | - | - | 52840 | - | - | - | - | 52840 |
| California Digital Corporation | - | - | - | - | - | 19940 | - | - | - | - | 19940 |
| Cray Inc. | - | 250794 | 37377 | - | - | - | - | - | - | - | 288171 |
| DALCO AG Switzerland | - | - | - | 9604 | - | - | - | - | - | - | 9604 |
| Dawning | - | 8061 | - | - | - | - | - | - | - | - | 8061 |
| Dell | - | - | - | 238709 | 17181 | - | - | - | - | - | 255890 |
| Fujitsu | - | - | - | - | 8728 | 3119 | - | - | - | 16818 | 28665 |
| Galactic Computing | - | - | - | - | 3413 | - | - | - | - | - | 3413 |
| Hewlett-Packard | 22323 | 109710 | - | 73552 | 275130 | 34788 | - | 63786 | - | - | 579289 |
| Hitachi | - | - | - | - | - | - | - | - | 34276 | - | 34276 |
| Hitachi/Fujitsu | - | - | - | - | 10350 | - | - | - | - | - | 10350 |
| HPTi | - | - | - | - | 3337 | - | - | - | - | - | 3337 |
| IBM | - | 250527 | - | 260247 | 91768 | 10367 | - | - | 1137543 | - | 1750452 |
| IBM/HP | - | 3782 | - | - | - | - | - | - | - | - | 3782 |
| Intel | - | - | - | 8564 | - | - | - | - | - | - | 8564 |
| lenovo | - | - | - | - | - | 4193 | - | - | - | - | 4193 |
| Linux Networx | - | 25643 | - | 15200 | 18284 | - | - | - | - | - | 59127 |
| NEC | - | - | - | - | - | - | 47697 | - | - | - | 47697 |
| NEC/Sun | - | 47380 | - | - | - | - | - | - | - | - | 47380 |
| Rackable Systems | - | 2974 | - | - | - | - | - | - | - | - | 2974 |
| Self-made | - | 6894 | - | - | 3328 | - | - | - | 32989 | - | 43211 |
| SGI | - | - | - | - | - | 191687 | - | - | - | - | 191687 |
| Sun Microsystems | - | 30356 | - | - | 13810 | - | - | - | - | - | 44166 |
| Total | 22323 | 766661 | 37377 | 605876 | 445329 | 316934 | 47697 | 63786 | 1204808 | 16818 | 3527609 |

Segment/Proc. Family (Systems)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|--------------|----------|------------|------------|----------|----------|--------|-------|
| Alpha | 1 | - | - | - | 2 | - | 3 |
| AMD x86_64 | 18 | 10 | - | 39 | 39 | 7 | 113 |
| Cray | - | 1 | - | - | 3 | - | 4 |
| Intel EM64T | 15 | 2 | - | 85 | 7 | - | 109 |
| Intel IA-32 | 8 | 5 | 4 | 88 | 14 | - | 119 |
| Intel IA-64 | 10 | 2 | - | 6 | 16 | 1 | 35 |
| NEC | - | - | - | 1 | 2 | - | 3 |
| PA-RISC | - | - | - | 20 | - | - | 20 |
| Power | 32 | - | - | 7 | 49 | 3 | 91 |
| Sparc | 2 | - | - | - | 1 | - | 3 |
| Total | 86 | 20 | 4 | 246 | 133 | 11 | 500 |

Segment/Proc. Family (Performance in GFlops)

| | Academic | Classified | Government | Industry | Research | Vendor | Total |
|--------------|----------|------------|------------|----------|----------|--------|---------|
| Alpha | 4463 | - | - | - | 17860 | - | 22323 |
| AMD x86_64 | 143430 | 64483 | - | 160705 | 347237 | 50807 | 766662 |
| Cray | - | 2933 | - | - | 34444 | - | 37377 |
| Intel EM64T | 152023 | 7667 | - | 317012 | 129175 | - | 605877 |
| Intel IA-32 | 51752 | 14128 | 15791 | 295438 | 68220 | - | 445329 |
| Intel IA-64 | 79332 | 6304 | - | 19851 | 208376 | 3071 | 316934 |
| NEC | - | - | - | 8923 | 38774 | - | 47697 |
| PA-RISC | - | - | - | 63786 | - | - | 63786 |
| Power | 285457 | - | - | 45870 | 854772 | 18709 | 1204808 |
| Sparc | 11412 | - | - | - | 5406 | - | 16818 |
| Total | 727869 | 95515 | 15791 | 911585 | 1704264 | 72587 | 3527611 |