**=1=**

|  |  |
| --- | --- |
| Site | [RIKEN Advanced Institute for Computational Science (AICS)](http://www.top500.org/site/3157) |
| System Family | Fujitsu Cluster |
| System Model | K computer |
| Computer | K computer, SPARC64 VIIIfx 2.0GHz, Tofu interconnect |
| Vendor | Fujitsu |
| Application area | Research |
| Installation Year | 2011 |
|  | |
| Operating System | Linux |
| Interconnect | [Custom](http://www.top500.org/connfam/23) |
| Processor | SPARC64 VIIIfx 2000 MHz (16 GFlops) |

**Cores** 548352

**Rmax(GFlops)** 8162000

**Rpeak(GFlops)** 8773632

**Nmax** 10725120

**Nhalf** 0

**=2=**

|  |  |
| --- | --- |
| System Name | **Tianhe-1A** |
| Site | [National Supercomputing Center in Tianjin](http://www.top500.org/site/3154) |
| System Family | NUDT MPP |
| System Model | NUDT YH MPP |
| Computer | NUDT TH MPP, X5670 2.93Ghz 6C, NVIDIA GPU, FT-1000 8C |
| Vendor | NUDT |
| Application area | Research |
| Main Memory | 229376 GB |
| Installation Year | 2010 |
|  | |
| Operating System | Linux |
| Memory | 229376 GB |
| Interconnect | [Proprietary](http://www.top500.org/connfam/18) |
| Processor | Intel EM64T Xeon X56xx (Westmere-EP) 2930 MHz (11.72 GFlops) |

**Cores** 186368

**Rmax(GFlops)** 2566000

**Rpeak(GFlops)** 4701000

**Nmax** 3600000

**Nhalf** 1000000

**=3=**

|  |  |
| --- | --- |
| System Name | **Jaguar** |
| Site | [DOE/SC/Oak Ridge National Laboratory](http://www.top500.org/site/1333) |
| System Family | Cray XT |
| System Model | Cray XT5-HE |
| Computer | Cray XT5-HE Opteron 6-core 2.6 GHz |
| Vendor | Cray Inc. |
| URL | [http://www.nccs.gov/computing-...](http://www.nccs.gov/computing-resources/jaguar/) |
| Application area | Not Specified |
| Installation Year | 2009 |
|  | |
| Operating System | Linux |
| Interconnect | [Proprietary](http://www.top500.org/connfam/18) |
| Processor | AMD x86\_64 Opteron Six Core 2600 MHz (10.4 GFlops) |

**Cores** 224162

**Rmax(GFlops)** 1759000

**Rpeak(GFlops)** 2331000

**Nmax** 5474272

**Nhalf** 0

**=4=**

|  |  |
| --- | --- |
| System Name | **Nebulae** |
| Site | [National Supercomputing Centre in Shenzhen (NSCS)](http://www.top500.org/site/3131) |
| System Family | Dawning Cluster |
| System Model | Dawning TC3600 Blade System |
| Computer | Dawning TC3600 Blade, Intel X5650, NVidia Tesla C2050 GPU |
| Vendor | Dawning |
| Application area | Research |
| Installation Year | 2010 |
|  | |
| Operating System | Linux |
| Interconnect | [Infiniband QDR](http://www.top500.org/connfam/8) |
| Processor | Intel EM64T Xeon X56xx (Westmere-EP) 2660 MHz (10.64 GFlops) |

**Cores** 120640

**Rmax(GFlops)** 1271000

**Rpeak(GFlops)** 2984300

**Nmax** 2359296

**Nhalf** 0

**=5=**

|  |  |
| --- | --- |
| System Name | **TSUBAME 2.0** |
| Site | [GSIC Center, Tokyo Institute of Technology](http://www.top500.org/site/690) |
| System Family | HP Cluster Platform 3000SL |
| System Model | Cluster Platform SL390s G7 |
| Computer | HP ProLiant SL390s G7 Xeon 6C X5670, Nvidia GPU, Linux/Windows |
| Vendor | NEC/HP |
| URL | [http://www.gsic.titech.ac.jp/t...](http://www.gsic.titech.ac.jp/tsubame2) |
| Application area | Research |
| Installation Year | 2010 |
|  | |
| Operating System | Linux |
| Interconnect | [Infiniband QDR](http://www.top500.org/connfam/8) |
| Processor | Intel EM64T Xeon X56xx (Westmere-EP) 2930 MHz (11.72 GFlops) |

**Cores** 73278

**Rmax(GFlops)** 1192000

**Rpeak(GFlops)** 2287630

**Nmax** 2490368

**Nhalf** 0

* Nworld - Position within the TOP500 ranking
* Manufacturer - Manufacturer or vendor
* Computer - Type indicated by manufacturer or vendor
* Installation Site - Customer
* Location - Location and country
* Year - Year of installation/last major update
* Field of Application
* #Proc. - Number of processors (Cores)
* Rmax - Maximal LINPACK performance achieved
* Rpeak - Theoretical peak performance
* Nmax - Problem size for achieving Rmax
* N1/2 - Problem size for achieving half of Rmax