

World's Powerful Super Computers (Top 10)

1. K Computer – SPARC64 VIIIfx 2.0GHz, Tofu interconnect (Fujitsu)



- System Name : K computer
- System Family : Fujitsu Cluster
- System Model : K computer
- Computer : K computer, SPARC64 VIIIfx 2.0GHz, Tofu interconnect
- Vendor : Fujitsu
- Application Area : Research
- Main Memory : 1410048 GB
- Installation Year : 2011
- Operating System : Linux
- Processor : SPARC64 VIIIfx 2000 MHz (16 GFlops)
- Cores : 705024
- Rmax(GFlops) : 10510000
- Rpeak(GFlops) : 11280384

2. Tianhe-1A – NUDT YH MPP, X5670 2.93Ghz 6C(NUDT)



- System Name : Tianhe-1A
- System Family : NUDT MPP
- System Model : NUDT YH MPP
- Computer : NUDT YH 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
- Processor : Intel EM64T Xeon X56xx (Westmere-EP) 2930 MHz (11.72 GFlops)
- Cores : 186368
- Rmax(GFlops) : 2566000
- Rpeak(GFlops) : 4701000

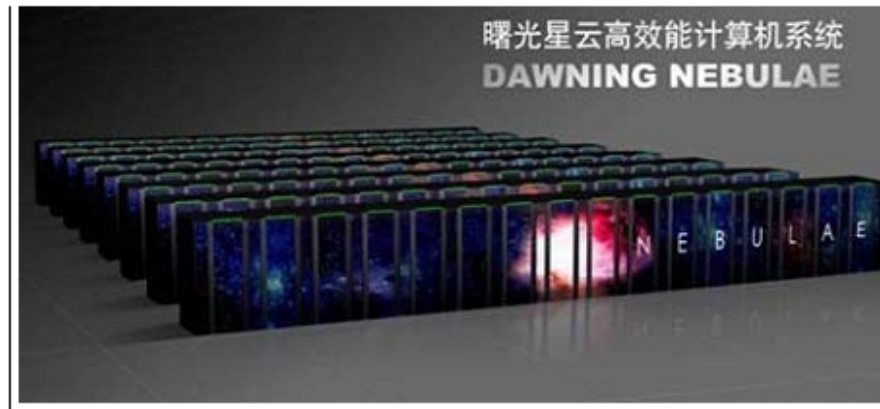
3. Jaguar – Cray XT5-HE Opteron 6-core 2.6 GHz(Cray Inc.)



- System Name : Jaguar
- System Family : Cray XT
- System Model : Cray XT5-HE
- Computer : Cray XT5-HE Opteron 6-core 2.6 GHz
- Vendor : Cray Inc.
- Application Area : Not Specified
- Installation Year : 2009
- Operating System : Linux
- Processor : AMD x86_64 Opteron Six Core 2600 MHz (10.4 GFlops)
- Cores : 224162
- Rmax(GFlops) : 1759000
- Rpeak(GFlops) : 2331000

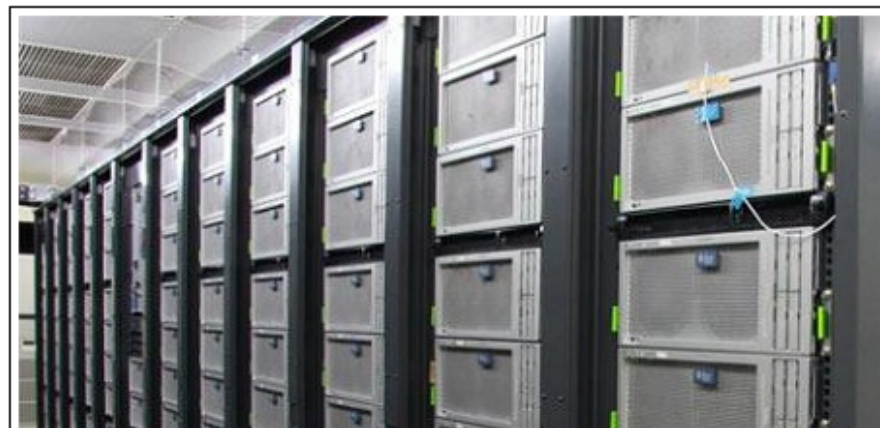
4. Nebulae – Dawning TC3600 Blade, Intel X5650(Dawning)





- ▷ System Name : Nebulae
- ▷ 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
- ▷ Processor : Intel EM64T Xeon X56xx (Westmere-EP) 2660 MHz (10.64 GFlops)
- ▷ Cores : 120640
- ▷ Rmax(GFlops) : 1271000
- ▷ Rpeak(GFlops) : 2984300

5. Tsubame 2.0 – HP ProLiant SL390s G7 Xeon 6C X5670(NEC/HP)





- System Name : Tsubame 2.0
- 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
- Application Area : Research
- Installation Year : 2010
- Operating System : Linux
- Processor : Intel EM64T Xeon X56xx (Westmere-EP) 2930 MHz (11.72 GFlops)
- Cores : 73278
- Rmax(GFlops) : 1192000
- Rpeak(GFlops) : 2287630

6. Cielo – Cray XE6 8-core 2.4 GHz(Cray Inc.)



- System Name : Cielo
- System Family : Cray XE
- System Model : Cray XE6
- Computer : Cray XE6 8-core 2.4 GHz
- Vendor : Cray Inc.
- Application Area : Not Specified
- Installation Year : 2011
- Operating System : Linux
- Processor : AMD x86_64 Opteron 8 Core 2400 MHz (9.6 GFlop)
- Cores : 142272
- Rmax(GFlops) : 1110000
- Rpeak(GFlops) : 1365811.2

7. Pleiades – SGI Altix ICE 8400EX 2.93 Ghz (SGI)



- System Name : Pleiades
- System Family : SGI Altix
- System Model : SGI Altix ICE 8200EX/8400EX
- Computer : SGI Altix ICE 8200EX/8400EX, Xeon HT QC 3.0/Xeon 5570/5670 2.93 Ghz, Infiniband

- Vendor : SGI
- Application Area : Aerospace
- Installation Year : 2011
- Operating System : Linux
- Processor : Intel EM64T Xeon E54xx (Harpertown) 3000 MHz (12 GFlops)
- Cores : 111104
- Rmax(GFlops) : 1088000
- Rpeak(GFlops) : 1315328

8. Hopper – Cray XE6 12-core 2.1 GHz(Cray Inc.)



- System Name : Hopper
- System Family : Cray XE
- System Model : Cray XE6
- Computer : Cray XE6 12-core 2.1 GHz
- Vendor : Cray Inc.
- Application Area : Research
- Installation Year : 2010
- Operating System : Linux

- Processor : AMD x86_64 Opteron 12 Core 2100 MHz (8.4 GFlops)
- Cores : 153408
- Rmax(GFlops) : 1054000
- Rpeak(GFlops) : 1288627.2

9. Tera-100 – Bull bullx super-node S6010/S6030(Bull SA)



- System Name : Tera-100
- System Family : Bull Bullx
- System Model : bullx super-node S6010/S6030
- Computer : Bull bullx super-node S6010/S6030
- Vendor : Bull SA
- Application Area : Defense
- Installation Year : 2010
- Operating System : Linux
- Cores : 138368
- Rmax(GFlops) : 1050000
- Rpeak(GFlops) : 1254550

10. Roadrunner – BladeCenter QS22/LS21 Cluster(IBM)



- System Name : Roadrunner
- System Family : IBM Cluster
- System Model : BladeCenter QS22 Cluster
- Computer : BladeCenter QS22/LS21 Cluster, PowerXCell 8i 3.2 Ghz / Opteron DC 1.8 GHz, Voltaire Infiniband
- Vendor : IBM
- Application Area : Not Specified
- Installation Year : 2009
- Operating System : Linux
- Processor : PowerXCell 8i 3200 MHz (12.8 GFlops)
- Cores : 122400
- Rmax(GFlops) : 1042000
- Rpeak(GFlops) : 1375776