

GCN.com Chart

Supplemental to story: **Energy Department tops supercomputer list**

The World's 15 Fastest Supercomputers – November 2007

(Definitions for R_{max} and R_{peak} appear below).

Rank	Site	Computer	Processors	Year	R _{max}	R _{peak}
1	DOE/NNSA/LLNL	BlueGene/L - eServer Blue Gene Solution	212992	2007	478200	596378
	United States	IBM				
2	Forschungszentrum Juelich (FZJ)	JUGENE - Blue Gene/P Solution	65536	2007	167300	222822
	Germany	IBM				
3	SGI/New Mexico Computing Applications Center (NMCAC)	SGI Altix ICE 8200, Xeon quad core 3.0 GHz	14336	2007	126900	172032
	United States	SGI				
4	Computational Research Laboratories, TATA SONS	Cluster Platform 3000 BL460c, Xeon 53xx 3GHz, Infiniband	14240	2007	117900	170880
	India	Hewlett-Packard				
5	Government Agency	Cluster Platform 3000 BL460c, Xeon 53xx 2.66GHz, Infiniband	13728	2007	102800	146430
	Sweden	Hewlett-Packard				
6	NNSA/Sandia National Laboratories	Red Storm - Sandia/ Cray Red Storm, Opteron 2.4 GHz dual core	26569	2007	102200	127531
	United States	Cray Inc.				

7	Oak Ridge National Laboratory	Jaguar - Cray XT4/XT3	23016	2006	101700	119350
	United States	Cray Inc.				
8	IBM Thomas J. Watson Research Center	BGW - eServer Blue Gene Solution	40960	2005	91290	114688
	United States	IBM				
9	NERSC/LBNL	Franklin - Cray XT4, 2.6 GHz	19320	2007	85368	100464
	United States	Cray Inc.				
10	Stony Brook/BNL, New York Center for Computational Sciences	New York Blue - eServer Blue Gene Solution	36864	2007	82161	103219
	United States	IBM				
11	DOE/NNSA/LLNL	ASC Purple - eServer pSeries p5 575 1.9 GHz	12208	2006	75760	92781
	United States	IBM				
12	Rensselaer Polytechnic Institute, Computational Center for Nanotechnology Innovations	eServer Blue Gene Solution	32768	2007	73032	91750
	United States	IBM				
13	Barcelona Supercomputing Center	MareNostrum - BladeCenter JS21 Cluster, PPC 970, 2.3 GHz, Myrinet	10240	2006	63830	94208
	Spain	IBM				
14	NCSA	Abe - PowerEdge 1955, 2.33 GHz, Infiniband	9600	2007	62680	89587.2
	United States	Dell				
15	Leibniz Rechenzentrum	HLRB-II - Altix 4700 1.6 GHz	9728	2007	56520	62259.2
	Germany	SGI				

Rmax - Maximal LINPACK performance achieved. LINPACK benchmarks gauge a system's computing power by measuring how fast a computer solves a dense n -by- n [systems of linear equations](#). The result is reported in millions of floating point operations per second (Mflop/s). A modified, or the High-Performance, LINPACK Benchmark is used to rank supercomputers in the [TOP 500](#) list.

Rpeak - Theoretical peak performance

Source: [Top 500 Supercomputer Sites](#)