
TOP500 Report for November 2009

TOP500 Team

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

Countries

Countries	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Australia	1	0.2000 %	21906	0.08 %	21906.00 00	4096	0.0879 %	4096
Austria	8	1.6000 %	219920	0.79 %	27490.00 00	23222	0.4981 %	2902
Belgium	1	0.2000 %	22731	0.08 %	22731.00 00	3984	0.0855 %	3984
Brazil	1	0.2000 %	64630	0.23 %	64630.00 00	6464	0.1387 %	6464
Bulgaria	1	0.2000 %	23862	0.09 %	23862.00 00	8192	0.1757 %	8192
Canada	9	1.8000 %	439783	1.57 %	48864.77 78	60340	1.2943 %	6704
China	21	4.2000 %	1379877	4.94 %	65708.42 86	210640	4.5184 %	10030
Finland	2	0.4000 %	103047	0.37 %	51523.50 00	14584	0.3128 %	7292
France	27	5.4000 %	1235180	4.42 %	45747.40 74	223104	4.7858 %	8263
Germany	27	5.4000 %	2288766	8.19 %	84769.11 11	472332	10.1320 %	17493
Hong Kong	1	0.2000 %	32325	0.12 %	32325.00 00	5600	0.1201 %	5600
India	3	0.6000 %	199257	0.71 %	66419.00 00	23416	0.5023 %	7805
Ireland	1	0.2000 %	25110	0.09 %	25110.00 00	2560	0.0549 %	2560
Israel	2	0.4000 %	49340	0.18 %	24670.00 00	13272	0.2847 %	6636
Italy	6	1.2000 %	200689	0.72 %	33448.16 67	21968	0.4712 %	3661

Countries	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Japan	16	3.2000 %	994211	3.56 %	62138.18 75	125320	2.6882 %	7832
Korea, South	2	0.4000 %	298170	1.07 %	149085.0 000	27768	0.5956 %	13884
Malaysia	1	0.2000 %	20442	0.07 %	20442.00 00	4096	0.0879 %	4096
Netherlands	3	0.6000 %	110653	0.40 %	36884.33 33	21336	0.4577 %	7112
New Zealand	8	1.6000 %	233222	0.83 %	29152.75 00	40688	0.8728 %	5086
Norway	2	0.4000 %	72454	0.26 %	36227.00 00	11182	0.2399 %	5591
Poland	3	0.6000 %	81392	0.29 %	27130.66 67	13416	0.2878 %	4472
Russia	7	1.4000 %	599076	2.14 %	85582.28 57	72992	1.5657 %	10427
Saudia Arabia	4	0.8000 %	310865	1.11 %	77716.25 00	77920	1.6715 %	19480
Singapore	1	0.2000 %	23482	0.08 %	23482.00 00	2400	0.0515 %	2400
Slovenia	1	0.2000 %	36753	0.13 %	36753.00 00	4096	0.0879 %	4096
South Africa	1	0.2000 %	25440	0.09 %	25440.00 00	2624	0.0563 %	2624
Spain	6	1.2000 %	205897	0.74 %	34316.16 67	32992	0.7077 %	5498
Sweden	7	1.4000 %	300733	1.08 %	42961.85 71	39500	0.8473 %	5642
Switzerland	5	1.0000 %	346885	1.24 %	69377.00 00	52360	1.1232 %	10472
United Kingdom	45	9.0000 %	1569089	5.61 %	34868.64 44	222300	4.7685 %	4940
United States	277	55.4000 %	16416076	58.73 %	59263.81 23	2817039	60.4281 %	10169

Countries	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
All	500	100%	27951300	100%		4661803	100%	

Geographical Region

Geographical Region			Rmax			Cores		
	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Australia and New Zealand	9	1.8000 %	255128	0.91 %	28347.5556	44784	0.9607 %	4976
Eastern Asia	40	8.0000 %	2704583	9.68 %	67614.5750	369328	7.9224 %	9233
Eastern Europe	11	2.2000 %	704329	2.52 %	64029.9091	94600	2.0293 %	8600
North America	286	57.2000 %	16855859	60.30 %	58936.5699	2877379	61.7224 %	10060
Northern Europe	57	11.4000 %	2070434	7.41 %	36323.4035	290126	6.2235 %	5089
South America	1	0.2000 %	64630	0.23 %	64630.0000	6464	0.1387 %	6464
South-central Asia	3	0.6000 %	199257	0.71 %	66419.0000	23416	0.5023 %	7805
South-eastern Asia	2	0.4000 %	43924	0.16 %	21962.0000	6496	0.1393 %	3248
Southern Africa	1	0.2000 %	25440	0.09 %	25440.0000	2624	0.0563 %	2624
Southern Europe	13	2.6000 %	443339	1.59 %	34103.0000	59056	1.2668 %	4542
Western Asia	6	1.2000 %	360205	1.29 %	60034.1667	91192	1.9562 %	15198
Western Europe	71	14.2000 %	4224135	15.11 %	59494.8592	796338	17.0822 %	11216
All	500	100%	27951300	100%		4661803	100%	

Architectures

Architectures	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Cluster	417	83.4000 %	16916825	60.52 %	40567.9257	2553904	54.7836 %	6124
Constellations	2	0.4000 %	94970	0.34 %	47485.0000	17648	0.3786 %	8824
MPP	81	16.2000 %	10939467	39.14 %	135055.1481	2090251	44.8378 %	25805
All	500	100%	27951300	100%		4661803	100%	

Continent

Continent			Rmax			Cores		
	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Africa	1	0.2000 %	25440	0.09 %	25440.0000	2624	0.0563 %	2624
Americas	287	57.4000 %	16920489	60.54 %	58956.4077	2883843	61.8611 %	10048
Asia	51	10.2000 %	3307969	11.83 %	64862.1373	490432	10.5202 %	9616
Europe	152	30.4000 %	7442236	26.63 %	48962.0789	1240120	26.6017 %	8158
Oceania	9	1.8000 %	255128	0.91 %	28347.5556	44784	0.9607 %	4976
All	500	100%	27951300	100%		4661803	100%	

Manufacturer

			Rmax			Cores		
Manufacturer	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
ACTION	1	0.2000 %	38170	0.14 %	38170.00 00	5336	0.1145 %	5336
Appro International	6	1.2000 %	458160	1.64 %	76360.00 00	71712	1.5383 %	11952
Bull SA	5	1.0000 %	481080	1.72 %	96216.00 00	54576	1.1707 %	10915
ClusterVision/Dell	1	0.2000 %	41770	0.15 %	41770.00 00	4096	0.0879 %	4096
ClusterVision/IBM	1	0.2000 %	28775	0.10 %	28775.00 00	3360	0.0721 %	3360
Cray Inc.	19	3.8000 %	4450150	15.92 %	234218.4 211	596315	12.7915 %	31385
DALCO AG Switzerland	1	0.2000 %	28990	0.10 %	28990.00 00	2880	0.0618 %	2880
Dawning	1	0.2000 %	180600	0.65 %	180600.0 000	30720	0.6590 %	30720
Dell	16	3.2000 %	616040	2.20 %	38502.50 00	85766	1.8398 %	5360
Dell/Sun/IBM	2	0.4000 %	132720	0.47 %	66360.00 00	18360	0.3938 %	9180
DELL\ACS	1	0.2000 %	38490	0.14 %	38490.00 00	4096	0.0879 %	4096
Fujitsu	5	1.0000 %	318740	1.14 %	63748.00 00	33688	0.7226 %	6737
Hewlett-Packard	210	42.0000 %	6360157	22.75 %	30286.46 19	1024940	21.9859 %	4880
Hitachi	3	0.6000 %	209601	0.75 %	69867.00 00	23072	0.4949 %	7690
IBM	185	37.0000 %	9722030	34.78 %	52551.51 35	2142560	45.9599 %	11581

Manufacturer	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Intel	1	0.2000 %	36000	0.13 %	36000.00 00	3408	0.0731 %	3408
Koi Computers	1	0.2000 %	37420	0.13 %	37420.00 00	6720	0.1442 %	6720
Lenovo	1	0.2000 %	102800	0.37 %	102800.0 000	12216	0.2620 %	12216
Linux Networx	1	0.2000 %	40610	0.15 %	40610.00 00	4416	0.0947 %	4416
NEC	2	0.4000 %	173190	0.62 %	86595.00 00	6656	0.1428 %	3328
NEC/Sun	1	0.2000 %	87010	0.31 %	87010.00 00	31024	0.6655 %	31024
NUDT	1	0.2000 %	563100	2.01 %	563100.0 000	71680	1.5376 %	71680
Pyramid Computer	1	0.2000 %	32800	0.12 %	32800.00 00	5420	0.1163 %	5420
Raytheon-Aspen Systems/Appro	1	0.2000 %	26730	0.10 %	26730.00 00	3440	0.0738 %	3440
Self-made	2	0.4000 %	43800	0.16 %	21900.00 00	10240	0.2197 %	5120
SGI	19	3.8000 %	1834559	6.56 %	96555.73 68	198304	4.2538 %	10437
Sun Microsystems	11	2.2000 %	1517670	5.43 %	137970.0 000	171442	3.6776 %	15585
T-Platforms	1	0.2000 %	350100	1.25 %	350100.0 000	35360	0.7585 %	35360
All	500	100%	27951300	100%		4661803	100%	

Producer Region

Producer Region	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Eastern Asia	9	1.8000 %	1316301	4.71 %	146255.6667	175368	3.7618 %	19485
Eastern Europe	2	0.4000 %	388270	1.39 %	194135.0000	40696	0.8730 %	20348
Global	2	0.4000 %	43800	0.16 %	21900.0000	10240	0.2197 %	5120
North America	479	95.8000 %	25631246	91.70 %	53509.9081	4369263	93.7247 %	9121
Northern Europe	1	0.2000 %	28775	0.10 %	28775.0000	3360	0.0721 %	3360
Western Europe	7	1.4000 %	542870	1.94 %	77552.8571	62876	1.3487 %	8982
All	500	100%	27951300	100%		4661803	100%	

Site Segments

Site Segments	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Academic	78	15.6000 %	5523355	19.76 %	70812.2436	821584	17.6237 %	10533
Classified	5	1.0000 %	140271	0.50 %	28054.2000	22844	0.4900 %	4568
Government	9	1.8000 %	579118	2.07 %	64346.4444	74744	1.6033 %	8304
Industry	313	62.6000 %	9006759	32.22 %	28775.5879	1549452	33.2372 %	4950
Research	91	18.2000 %	12479634	44.65 %	137138.8352	2155447	46.2363 %	23686
Vendor	4	0.8000 %	222125	0.79 %	55531.2500	37732	0.8094 %	9433
All	500	100%	27951300	100%		4661803	100%	

Application Area

Application Area	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Aerospace	7	1.4000 %	369031	1.32 %	52718.71 43	38864	0.8337 %	5552
Automotive	3	0.6000 %	85477	0.31 %	28492.33 33	10992	0.2358 %	3664
Benchmarking	2	0.4000 %	67795	0.24 %	33897.50 00	19456	0.4173 %	9728
Consulting	1	0.2000 %	43001	0.15 %	43001.00 00	6768	0.1452 %	6768
Database	9	1.8000 %	226633	0.81 %	25181.44 44	49336	1.0583 %	5481
Defense	16	3.2000 %	873812	3.13 %	54613.25 00	109380	2.3463 %	6836
Digital Content Creation	1	0.2000 %	22507	0.08 %	22507.00 00	3584	0.0769 %	3584
Digital Media	2	0.4000 %	46576	0.17 %	23288.00 00	9840	0.2111 %	4920
Energy	7	1.4000 %	235760	0.84 %	33680.00 00	33712	0.7232 %	4816
Entertainment	3	0.6000 %	96474	0.35 %	32158.00 00	15088	0.3237 %	5029
Finance	48	9.6000 %	1289351	4.61 %	26861.47 92	249916	5.3609 %	5206
Gaming	2	0.4000 %	49340	0.18 %	24670.00 00	15264	0.3274 %	7632
Geophysics	31	6.2000 %	899325	3.22 %	29010.48 39	138888	2.9793 %	4480
Hardware	5	1.0000 %	205923	0.74 %	41184.60 00	26356	0.5654 %	5271
Information Processing Service	18	3.6000 %	630036	2.25 %	35002.00 00	126280	2.7088 %	7015

Application Area	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Information Service	34	6.8000 %	993627	3.55 %	29224.32 35	161524	3.4648 %	4750
Life Science	1	0.2000 %	97071	0.35 %	97071.00 00	18176	0.3899 %	18176
Logistic Services	30	6.0000 %	834971	2.99 %	27832.36 67	126068	2.7043 %	4202
Media	3	0.6000 %	80711	0.29 %	26903.66 67	15152	0.3250 %	5050
Medicine	3	0.6000 %	141706	0.51 %	47235.33 33	20160	0.4325 %	6720
Not Specified	116	23.2000 %	9740026	34.85 %	83965.74 14	1508323	32.3549 %	13002
Research	78	15.6000 %	8519414	30.48 %	109223.2 564	1573920	33.7620 %	20178
Retail	5	1.0000 %	126834	0.45 %	25366.80 00	26432	0.5670 %	5286
Semiconductor	22	4.4000 %	577740	2.07 %	26260.90 91	92416	1.9824 %	4200
Service	10	2.0000 %	242332	0.87 %	24233.20 00	41540	0.8911 %	4154
Software	16	3.2000 %	432657	1.55 %	27041.06 25	83192	1.7845 %	5199
Telecomm	11	2.2000 %	277880	0.99 %	25261.81 82	51784	1.1108 %	4707
Weather and Climate Research	6	1.2000 %	386309	1.38 %	64384.83 33	30016	0.6439 %	5002
Weather Forecasting	3	0.6000 %	130457	0.47 %	43485.66 67	10480	0.2248 %	3493
WWW	7	1.4000 %	228485	0.82 %	32640.71 43	48896	1.0489 %	6985
All	500	100%	27951300	100%		4661803	100%	

Interconnect

Interconnect	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
10G Ethernet	1	0.2000 %	20640	0.07 %	20640.0000	3072	0.0659 %	3072
3-D Torus	3	0.6000 %	129030	0.46 %	43010.0000	13824	0.2965 %	4608
Fat Tree Network	1	0.2000 %	122400	0.44 %	122400.0000	1280	0.0275 %	1280
Federation	4	0.8000 %	141319	0.51 %	35329.7500	22448	0.4815 %	5612
Gigabit Ethernet	258	51.6000 %	7144566	25.56 %	27692.1163	1346124	28.8756 %	5217
Infiniband DDR 4x	11	2.2000 %	1159966	4.15 %	105451.4545	141864	3.0431 %	12896
Infiniband	135	27.0000 %	8575670	30.68 %	63523.4815	946964	20.3133 %	7014
Infiniband DDR	31	6.2000 %	1753327	6.27 %	56558.9355	232392	4.9850 %	7496
Infiniband QDR Sun M9 / Mellanox / ParTec	2	0.4000 %	549600	1.97 %	274800.0000	52536	1.1269 %	26268
Infiniband SDR	2	0.4000 %	97250	0.35 %	48625.0000	13760	0.2952 %	6880
Myrinet	4	0.8000 %	128261	0.46 %	32065.2500	20208	0.4335 %	5052
Myrinet 10G	3	0.6000 %	234461	0.84 %	78153.6667	33464	0.7178 %	11154
NUMAlink	2	0.4000 %	107961	0.39 %	53980.5000	18944	0.4064 %	9472
Numalink/Infiniband	1	0.2000 %	66567	0.24 %	66567.0000	13824	0.2965 %	13824
Proprietary	24	4.8000 %	6053794	21.66 %	252241.4167	1560214	33.4680 %	65008

Interconnect	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Quadrics	3	0.6000 %	102280	0.37 %	34093.33 33	16944	0.3635 %	5648
XT3 Internal Interconnect	2	0.4000 %	69129	0.25 %	34564.50 00	16004	0.3433 %	8002
XT4 Internal Interconnect	13	2.6000 %	1495041	5.35 %	115003.1 538	207937	4.4604 %	15995
All	500	100%	27951300	100%		4661803	100%	

Interconnect Family

Interconnect Family	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Cray Interconnect	5	1.0000 %	198159	0.71 %	39631.8000	29828	0.6398 %	5965
Fat Tree	1	0.2000 %	122400	0.44 %	122400.0000	1280	0.0275 %	1280
Gigabit Ethernet	259	51.8000 %	7165206	25.63 %	27664.8880	1349196	28.9415 %	5209
Infiniband	181	36.2000 %	12135813	43.42 %	67048.6906	1387516	29.7635 %	7665
Mixed	1	0.2000 %	66567	0.24 %	66567.0000	13824	0.2965 %	13824
Myrinet	7	1.4000 %	362722	1.30 %	51817.4286	53672	1.1513 %	7667
NUMalink	2	0.4000 %	107961	0.39 %	53980.5000	18944	0.4064 %	9472
Proprietary	37	7.4000 %	7548835	27.01 %	204022.5676	1768151	37.9285 %	47787
Quadrics	3	0.6000 %	102280	0.37 %	34093.3333	16944	0.3635 %	5648
SP Switch	4	0.8000 %	141319	0.51 %	35329.7500	22448	0.4815 %	5612
All	500	100%	27951300	100%		4661803	100%	

System Families

System Families	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
ACTION Cluster	1	0.2000 %	38170	0.14 %	38170.00 00	5336	0.1145 %	5336
Appro XtremeServer	6	1.2000 %	458160	1.64 %	76360.00 00	71712	1.5383 %	11952
Bull Cluster	2	0.4000 %	111310	0.40 %	55655.00 00	10624	0.2279 %	5312
Bull SMP Cluster	2	0.4000 %	94970	0.34 %	47485.00 00	17648	0.3786 %	8824
Cray XT	19	3.8000 %	4450150	15.92 %	234218.4 211	596315	12.7915 %	31385
Dalco Cluster	1	0.2000 %	28990	0.10 %	28990.00 00	2880	0.0618 %	2880
Dawning Cluster	1	0.2000 %	180600	0.65 %	180600.0 000	30720	0.6590 %	30720
Dell Cloud Computing (DCS)	1	0.2000 %	39580	0.14 %	39580.00 00	4608	0.0988 %	4608
Dell PowerEdge Cluster	17	3.4000 %	656720	2.35 %	38630.58 82	89350	1.9166 %	5255
Dell/Sun/IBM Cluster	2	0.4000 %	132720	0.47 %	66360.00 00	18360	0.3938 %	9180
Fujitsu Cluster	5	1.0000 %	318740	1.14 %	63748.00 00	33688	0.7226 %	6737
Hitachi Cluster	1	0.2000 %	101741	0.36 %	101741.0 000	15104	0.3240 %	15104
Hitachi SR16000	2	0.4000 %	107860	0.39 %	53930.00 00	7968	0.1709 %	3984
HP Cluster Platform 3000	3	0.6000 %	105572	0.38 %	35190.66 67	15144	0.3249 %	5048
HP Cluster Platform 3000BL	199	39.8000 %	5962465	21.33 %	29962.13 57	953196	20.4469 %	4789

System Families	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
HP Cluster Platform 4000	1	0.2000 %	97071	0.35 %	97071.00 00	18176	0.3899 %	18176
HP Cluster Platform 4000BL	6	1.2000 %	174598	0.62 %	29099.66 67	34328	0.7364 %	5721
HP Cluster Platform 6000	1	0.2000 %	20450	0.07 %	20450.00 00	4096	0.0879 %	4096
IBM BlueGene	20	4.0000 %	3167814	11.33 %	158390.7 000	1187840	25.4803 %	59392
IBM Cluster	145	29.0000 %	5304707	18.98 %	36584.18 62	857072	18.3850 %	5910
IBM pSeries	21	4.2000 %	1278283	4.57 %	60870.61 90	101008	2.1667 %	4809
Intel Cluster	1	0.2000 %	36000	0.13 %	36000.00 00	3408	0.0731 %	3408
KOI Cluster	1	0.2000 %	37420	0.13 %	37420.00 00	6720	0.1442 %	6720
Lenovo Cluster	1	0.2000 %	102800	0.37 %	102800.0 000	12216	0.2620 %	12216
Linux Networx Evolocity	1	0.2000 %	40610	0.15 %	40610.00 00	4416	0.0947 %	4416
NEC Cluster	1	0.2000 %	50790	0.18 %	50790.00 00	5376	0.1153 %	5376
NEC Vector	1	0.2000 %	122400	0.44 %	122400.0 000	1280	0.0275 %	1280
NOW - Intel	2	0.4000 %	48570	0.17 %	24285.00 00	5488	0.1177 %	2744
NOW - mixed processors	1	0.2000 %	21960	0.08 %	21960.00 00	8192	0.1757 %	8192
NUDT Cluster	1	0.2000 %	563100	2.01 %	563100.0 000	71680	1.5376 %	71680
Pyramid Cluster	1	0.2000 %	32800	0.12 %	32800.00 00	5420	0.1163 %	5420
SGI Altix	18	3.6000 %	1812959	6.49 %	100719.9 444	195840	4.2009 %	10880

System Families	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
SGI Cluster	1	0.2000 %	21600	0.08 %	21600.00 00	2464	0.0529 %	2464
Sun Blade System	10	2.0000 %	1242870	4.45 %	124287.0 000	145210	3.1149 %	14521
Sun Fire - Cluster	1	0.2000 %	87010	0.31 %	87010.00 00	31024	0.6655 %	31024
Sun-Bull-ParTec Cluster	2	0.4000 %	549600	1.97 %	274800.0 000	52536	1.1269 %	26268
T-Platforms Cluster	1	0.2000 %	350100	1.25 %	350100.0 000	35360	0.7585 %	35360
All	500	100%	27951300	100%		4661803	100%	

Cores Per System

Cores Per System	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
128k-	5	1.0000 %	3937011	14.09 %	787402.2000	1043362	22.3811 %	208672
64k-128k	2	0.4000 %	1873700	6.70 %	936850.0000	221328	4.7477 %	110664
32k-64k	10	2.0000 %	2705661	9.68 %	270566.1000	457442	9.8126 %	45744
16k-32k	15	3.0000 %	2784574	9.96 %	185638.2667	432716	9.2822 %	28847
8k-16k	48	9.6000 %	3931450	14.07 %	81905.2083	541123	11.6076 %	11273
4k-8k	252	50.4000 %	8171023	29.23 %	32424.6944	1409338	30.2316 %	5592
2049-4096	160	32.0000 %	4269694	15.28 %	26685.5875	542286	11.6325 %	3389
1025-2048	8	1.6000 %	278149	1.00 %	34768.6250	14208	0.3048 %	1776
All	500	100%	27951300	100%		4661803	100%	

Processors

Processors	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Xeon E54xx (Harpertown)	188	37.6000 %	5961161	21.33 %	31708.30 32	940272	20.1697 %	5001
Xeon L54xx (Harpertown)	57	11.4000 %	1664187	5.95 %	29196.26 32	304508	6.5320 %	5342
Xeon X55xx (Nehalem-EP)	56	11.2000 %	3647642	13.05 %	65136.46 43	381732	8.1885 %	6816
Xeon E55xx (Nehalem-EP)	39	7.8000 %	1852080	6.63 %	47489.23 08	289864	6.2179 %	7432
Opteron Quad Core	30	6.0000 %	2963302	10.60 %	98776.73 33	434821	9.3273 %	14494
Xeon 53xx (Clovertown)	29	5.8000 %	1091475	3.90 %	37637.06 90	175904	3.7733 %	6065
POWER6	19	3.8000 %	1244825	4.45 %	65517.10 53	86528	1.8561 %	4554
PowerPC 450	15	3.0000 %	2415681	8.64 %	161045.4 000	851968	18.2755 %	56797
Xeon 51xx (Woodcrest)	13	2.6000 %	392664	1.40 %	30204.92 31	48108	1.0320 %	3700
Opteron Dual Core	8	1.6000 %	466869	1.67 %	58358.62 50	114160	2.4488 %	14270
Xeon X54xx (Harpertown)	8	1.6000 %	344081	1.23 %	43010.12 50	45188	0.9693 %	5648
PowerXCell 8i	6	1.2000 %	1360780	4.87 %	226796.6 667	157824	3.3855 %	26304
PowerPC 440	5	1.0000 %	752133	2.69 %	150426.6 000	335872	7.2048 %	67174
Itanium2 Montecito Dual Core	4	0.8000 %	218057	0.78 %	54514.25 00	41200	0.8838 %	10300
Opteron Six Core	3	0.6000 %	2759400	9.87 %	919800.0 000	345122	7.4032 %	115040

Processors	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
PowerPC 970	3	0.6000 %	105671	0.38 %	35223.66 67	16112	0.3456 %	5370
POWER5	2	0.4000 %	95830	0.34 %	47915.00 00	15280	0.3278 %	7640
Xeon 52xx (Wolfdale)	2	0.4000 %	49836	0.18 %	24918.00 00	7344	0.1575 %	3672
SPARC64 VII	2	0.4000 %	139110	0.50 %	69555.00 00	15104	0.3240 %	7552
POWER5+	2	0.4000 %	45489	0.16 %	22744.50 00	7168	0.1538 %	3584
Xeon 32xx (Kentsfield)	1	0.2000 %	32800	0.12 %	32800.00 00	5420	0.1163 %	5420
Itanium 2 Dual Core	1	0.2000 %	51441	0.18 %	51441.00 00	9216	0.1977 %	9216
Itanium2 Fanwood	1	0.2000 %	20450	0.07 %	20450.00 00	4096	0.0879 %	4096
GRAPE-DR processor	1	0.2000 %	21960	0.08 %	21960.00 00	8192	0.1757 %	8192
Xeon 73xx (Tigerton)	1	0.2000 %	38100	0.14 %	38100.00 00	4608	0.0988 %	4608
NEC	1	0.2000 %	122400	0.44 %	122400.0 000	1280	0.0275 %	1280
Xeon L55xx (Nehalem-EP)	1	0.2000 %	20199	0.07 %	20199.00 00	2816	0.0604 %	2816
Xeon EM64T	1	0.2000 %	53000	0.19 %	53000.00 00	9024	0.1936 %	9024
Opteron	1	0.2000 %	20640	0.07 %	20640.00 00	3072	0.0659 %	3072
All	500	100%	27951300	100%		4661803	100%	

Processor Families

Processor Families	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Intel EM64T	396	79.2000 %	15147225	54.19 %	38250.5682	2214788	47.5093 %	5592
Power	52	10.4000 %	6020408	21.54 %	115777.0769	1470752	31.5490 %	28283
AMD x86_64	42	8.4000 %	6210211	22.22 %	147862.1667	897175	19.2452 %	21361
Intel IA-64	6	1.2000 %	289948	1.04 %	48324.6667	54512	1.1693 %	9085
Sparc	2	0.4000 %	139110	0.50 %	69555.0000	15104	0.3240 %	7552
NEC	1	0.2000 %	122400	0.44 %	122400.0000	1280	0.0275 %	1280
Others	1	0.2000 %	21960	0.08 %	21960.0000	8192	0.1757 %	8192
All	500	100%	27951300	100%		4661803	100%	

Processor Architecutre

Processor Architecutre	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
N/A	1	0.2000 %	21960	0.08 %	21960.0000	8192	0.1757 %	8192
Scalar	498	99.6000 %	27806902	99.48 %	55837.1526	4652331	99.7968 %	9342
Vector	1	0.2000 %	122400	0.44 %	122400.0000	1280	0.0275 %	1280
All	500	100%	27951300	100%		4661803	100%	

Installation Year

Installation Year	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
2005	2	0.4000 %	118740	0.42 %	59370.0000	53248	1.1422 %	26624
2006	8	1.6000 %	377019	1.35 %	47127.3750	65716	1.4097 %	8214
2007	24	4.8000 %	1971316	7.05 %	82138.1667	595892	12.7824 %	24828
2008	107	21.4000 %	5165623	18.48 %	48276.8505	797133	17.0992 %	7449
2009	359	71.8000 %	20318564	72.69 %	56597.6713	3149814	67.5664 %	8773
All	500	100%	27951300	100%		4661803	100%	

Vendors/Customer Segments (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
ACTION	1	-	-	-	-	-	1
Appro International	1	-	-	-	5	-	6
Bull SA	1	-	-	-	4	-	5
ClusterVision/Dell	-	-	-	1	-	-	1
ClusterVision/IBM	1	-	-	-	-	-	1
Cray Inc.	7	1	1	-	9	1	19
DALCO AG Switzerland	-	-	-	1	-	-	1
Dawning	-	-	-	-	1	-	1
Dell	12	-	-	1	3	-	16
Dell/Sun/IBM	2	-	-	-	-	-	2
DELL\ACS	-	-	-	1	-	-	1
Fujitsu	2	-	-	-	3	-	5
Hewlett-Packard	10	-	5	192	3	-	210
Hitachi	1	-	-	-	2	-	3
IBM	21	4	2	114	41	3	185
Intel	-	-	-	1	-	-	1
Koi Computers	-	-	-	-	1	-	1
Lenovo	1	-	-	-	-	-	1
Linux Networx	-	-	-	-	1	-	1
NEC	-	-	-	1	1	-	2
NEC/Sun	1	-	-	-	-	-	1
NUDT	-	-	-	-	1	-	1
Pyramid Computer	-	-	-	-	1	-	1
Raytheon-Aspen Systems/Appro	-	-	-	-	1	-	1
Self-made	2	-	-	-	-	-	2
SGI	5	-	1	1	12	-	19
Sun Microsystems	9	-	-	-	2	-	11
T-Platforms	1	-	-	-	-	-	1
Total	78	5	9	313	91	4	500

Vendors/Customer Segments (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
ACTION	38170	-	-	-	-	-	38170
Appro International	77280	-	-	-	380880	-	458160
Bull SA	20120	-	-	-	460960	-	481080
ClusterVision/Dell	-	-	-	41770	-	-	41770
ClusterVision/IBM	28775	-	-	-	-	-	28775
Cray Inc.	1297251	33929	165600	-	2862290	91080	4450150
DALCO AG Switzerland	-	-	-	28990	-	-	28990
Dawning	-	-	-	-	180600	-	180600
Dell	400490	-	-	39580	175970	-	616040
Dell/Sun/IBM	132720	-	-	-	-	-	132720
DELL\ACS	-	-	-	38490	-	-	38490
Fujitsu	79020	-	-	-	239720	-	318740
Hewlett-Packard	408442	-	193539	5597925	160251	-	6360157
Hitachi	101741	-	-	-	107860	-	209601
IBM	1115946	106341	59779	3067115	5241804	131045	9722030
Intel	-	-	-	36000	-	-	36000
Koi Computers	-	-	-	-	37420	-	37420
Lenovo	102800	-	-	-	-	-	102800
Linux Networx	-	-	-	-	40610	-	40610
NEC	-	-	-	50790	122400	-	173190
NEC/Sun	87010	-	-	-	-	-	87010
NUDT	-	-	-	-	563100	-	563100
Pyramid Computer	-	-	-	-	32800	-	32800
Raytheon-Aspen Systems/Appro	-	-	-	-	26730	-	26730
Self-made	43800	-	-	-	-	-	43800
SGI	420720	-	160200	106100	1147539	-	1834559
Sun Microsystems	818970	-	-	-	698700	-	1517670
T-Platforms	350100	-	-	-	-	-	350100
Total	5523355	140270	579118	9006760	12479634	222125	27951262

Continents/Customer Segments (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Africa	1	-	-	-	-	-	1
Americas	31	2	7	191	52	4	287
Asia	13	-	-	26	12	-	51
Europe	33	3	2	88	26	-	152
Oceania	-	-	-	8	1	-	9
Total	78	5	9	313	91	4	500

Continents/Customer Segments (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Africa	25440	-	-	-	-	-	25440
Americas	2482024	56757	443670	5273691	8442222	222125	16920489
Asia	813283	-	-	902046	1592640	-	3307969
Europe	2202608	83514	135448	2602294	2418372	-	7442236
Oceania	-	-	-	228728	26400	-	255128
Total	5523355	140271	579118	9006759	12479634	222125	27951262

Regions/Customer Segments (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Australia and New Zealand	-	-	-	8	1	-	9
Eastern Asia	11	-	-	18	11	-	40
Eastern Europe	5	-	1	3	2	-	11
North America	30	2	7	191	52	4	286
Northern Europe	10	3	1	37	6	-	57
South America	1	-	-	-	-	-	1
South-central Asia	-	-	-	2	1	-	3
South-eastern Asia	1	-	-	1	-	-	2
Southern Africa	1	-	-	-	-	-	1
Southern Europe	3	-	-	7	3	-	13
Western Asia	1	-	-	5	-	-	6
Western Europe	15	-	-	41	15	-	71
Total	78	5	9	313	91	4	500

Regions/Customer Segments (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Australia and New Zealand	-	-	-	228728	26400	-	255128
Eastern Asia	598901	-	-	551142	1554540	-	2704583
Eastern Europe	541420	-	32648	81319	48942	-	704329
North America	2417394	56757	443670	5273691	8442222	222125	16855859
Northern Europe	551743	83514	102800	947878	384499	-	2070434
South America	64630	-	-	-	-	-	64630
South-central Asia	-	-	-	161157	38100	-	199257
South-eastern Asia	23482	-	-	20442	-	-	43924
Southern Africa	25440	-	-	-	-	-	25440
Southern Europe	165912	-	-	192829	84598	-	443339
Western Asia	190900	-	-	169305	-	-	360205
Western Europe	943533	-	-	1380268	1900334	-	4224135
Total	5523355	140271	579118	9006759	12479635	222125	27951263

Segment/Application Area (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Aerospace	-	-	-	3	4	-	7
Automotive	1	-	-	2	-	-	3
Benchmarking	-	-	-	-	-	2	2
Consulting	-	-	-	1	-	-	1
Database	-	-	-	9	-	-	9
Defense	-	2	4	8	2	-	16
Digital Content Creation	-	-	-	1	-	-	1
Digital Media	-	-	-	2	-	-	2
Energy	-	-	-	7	-	-	7
Entertainment	-	-	-	3	-	-	3
Finance	-	-	1	47	-	-	48
Gaming	-	-	-	2	-	-	2
Geophysics	1	-	-	30	-	-	31
Hardware	-	-	-	4	-	1	5
Information Processing Service	-	-	-	17	1	-	18
Information Service	-	-	-	34	-	-	34
Life Science	-	-	-	-	1	-	1
Logistic Services	-	-	-	30	-	-	30
Media	-	-	-	3	-	-	3
Medicine	2	-	-	1	-	-	3
Not Specified	32	2	3	36	43	-	116
Research	42	1	-	4	31	-	78
Retail	-	-	-	5	-	-	5
Semiconductor	-	-	-	22	-	-	22
Service	-	-	1	9	-	-	10
Software	-	-	-	15	-	1	16
Telecomm	-	-	-	11	-	-	11
Weather and Climate Research	-	-	-	-	6	-	6
Weather Forecasting	-	-	-	-	3	-	3

	Academic	Classified	Government	Industry	Research	Vendor	Total
WWW	-	-	-	7	-	-	7
Total	78	5	9	313	91	4	500

Segment/Application Area (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Aerospace	-	-	-	147881	221150	-	369031
Automotive	27370	-	-	58107	-	-	85477
Benchmarking	-	-	-	-	-	67795	67795
Consulting	-	-	-	43001	-	-	43001
Database	-	-	-	226633	-	-	226633
Defense	-	67500	449050	195122	162140	-	873812
Digital Content Creation	-	-	-	22507	-	-	22507
Digital Media	-	-	-	46576	-	-	46576
Energy	-	-	-	235760	-	-	235760
Entertainment	-	-	-	96474	-	-	96474
Finance	-	-	24668	1264683	-	-	1289351
Gaming	-	-	-	49340	-	-	49340
Geophysics	31310	-	-	868015	-	-	899325
Hardware	-	-	-	114843	-	91080	205923
Information Processing Service	-	-	-	538746	91290	-	630036
Information Service	-	-	-	993627	-	-	993627
Life Science	-	-	-	-	97071	-	97071
Logistic Services	-	-	-	834971	-	-	834971
Media	-	-	-	80711	-	-	80711
Medicine	118040	-	-	23666	-	-	141706
Not Specified	2429107	49584	85201	1168738	6007396	-	9740026
Research	2917528	23186	-	194878	5383822	-	8519414
Retail	-	-	-	126834	-	-	126834
Semiconductor	-	-	-	577740	-	-	577740
Service	-	-	20199	222133	-	-	242332
Software	-	-	-	369407	-	63250	432657
Telecomm	-	-	-	277880	-	-	277880
Weather and Climate Research	-	-	-	-	386309	-	386309
Weather Forecasting	-	-	-	-	130457	-	130457

	Academic	Classified	Government	Industry	Research	Vendor	Total
WWW	-	-	-	228485	-	-	228485
Total	5523355	140270	579118	9006758	12479635	222125	27951261

Vendors/Architecture Type (Systems)

	Cluster	Constellations	MPP	Total
ACTION	1	-	-	1
Appro International	6	-	-	6
Bull SA	3	2	-	5
ClusterVision/Dell	1	-	-	1
ClusterVision/IBM	1	-	-	1
Cray Inc.	-	-	19	19
DALCO AG Switzerland	1	-	-	1
Dawning	1	-	-	1
Dell	16	-	-	16
Dell/Sun/IBM	2	-	-	2
DELL\ACS	1	-	-	1
Fujitsu	5	-	-	5
Hewlett-Packard	210	-	-	210
Hitachi	1	-	2	3
IBM	144	-	41	185
Intel	1	-	-	1
Koi Computers	1	-	-	1
Lenovo	1	-	-	1
Linux Networx	1	-	-	1
NEC	1	-	1	2
NEC/Sun	1	-	-	1
NUDT	1	-	-	1
Pyramid Computer	1	-	-	1
Raytheon-Aspen Systems/Appro	1	-	-	1
Self-made	2	-	-	2
SGI	1	-	18	19
Sun Microsystems	11	-	-	11
T-Platforms	1	-	-	1
Total	417	2	81	500

Vendors/Architecture Type (Performance in GFlops)

	Cluster	Constellations	MPP	Total
ACTION	38170	-	-	38170
Appro International	458160	-	-	458160
Bull SA	386110	94970	-	481080
ClusterVision/Dell	41770	-	-	41770
ClusterVision/IBM	28775	-	-	28775
Cray Inc.	-	-	4450150	4450150
DALCO AG Switzerland	28990	-	-	28990
Dawning	180600	-	-	180600
Dell	616040	-	-	616040
Dell/Sun/IBM	132720	-	-	132720
DELL\ACS	38490	-	-	38490
Fujitsu	318740	-	-	318740
Hewlett-Packard	6360157	-	-	6360157
Hitachi	101741	-	107860	209601
IBM	5275932	-	4446097	9722029
Intel	36000	-	-	36000
Koi Computers	37420	-	-	37420
Lenovo	102800	-	-	102800
Linux Networx	40610	-	-	40610
NEC	50790	-	122400	173190
NEC/Sun	87010	-	-	87010
NUDT	563100	-	-	563100
Pyramid Computer	32800	-	-	32800
Raytheon-Aspen Systems/Appro	26730	-	-	26730
Self-made	43800	-	-	43800
SGI	21600	-	1812959	1834559
Sun Microsystems	1517670	-	-	1517670
T-Platforms	350100	-	-	350100
Total	16916825	94970	10939466	27951261

Continents/Architecture Type (Systems)

	Cluster	Constellations	MPP	Total
Africa	1	-	-	1
Americas	246	-	41	287
Asia	44	-	7	51
Europe	118	2	32	152
Oceania	8	-	1	9
Total	417	2	81	500

Continents/Architecture Type (Performance in GFlops)

	Cluster	Constellations	MPP	Total
Africa	25440	-	-	25440
Americas	9592495	-	7327994	16920489
Asia	2797819	-	510150	3307969
Europe	4272343	94970	3074923	7442236
Oceania	228728	-	26400	255128
Total	16916825	94970	10939467	27951262

Regions/Architecture Type (Systems)

	Cluster	Constellations	MPP	Total
Australia and New Zealand	8	-	1	9
Eastern Asia	34	-	6	40
Eastern Europe	9	-	2	11
North America	245	-	41	286
Northern Europe	47	-	10	57
South America	1	-	-	1
South-central Asia	3	-	-	3
South-eastern Asia	2	-	-	2
Southern Africa	1	-	-	1
Southern Europe	12	-	1	13
Western Asia	5	-	1	6
Western Europe	50	2	19	71
Total	417	2	81	500

Regions/Architecture Type (Performance in GFlops)

	Cluster	Constellations	MPP	Total
Australia and New Zealand	228728	-	26400	255128
Eastern Asia	2385333	-	319250	2704583
Eastern Europe	656605	-	47724	704329
North America	9527865	-	7327994	16855859
Northern Europe	1360823	-	709611	2070434
South America	64630	-	-	64630
South-central Asia	199257	-	-	199257
South-eastern Asia	43924	-	-	43924
Southern Africa	25440	-	-	25440
Southern Europe	364659	-	78680	443339
Western Asia	169305	-	190900	360205
Western Europe	1890257	94970	2238908	4224135
Total	16916826	94970	10939467	27951263

Vendors/Continents (Systems)

	Africa	Americas	Asia	Europe	Oceania	Total
ACTION	-	-	-	1	-	1
Appro International	-	5	1	-	-	6
Bull SA	-	-	-	5	-	5
ClusterVision/Dell	-	-	1	-	-	1
ClusterVision/IBM	-	-	-	1	-	1
Cray Inc.	-	13	1	5	-	19
DALCO AG Switzerland	-	-	-	1	-	1
Dawning	-	-	1	-	-	1
Dell	-	16	-	-	-	16
Dell/Sun/IBM	-	2	-	-	-	2
DELL\ACS	-	-	1	-	-	1
Fujitsu	-	-	5	-	-	5
Hewlett-Packard	-	121	12	69	8	210
Hitachi	-	-	3	-	-	3
IBM	-	112	18	54	1	185
Intel	-	1	-	-	-	1
Koi Computers	-	1	-	-	-	1
Lenovo	-	-	1	-	-	1
Linux Networx	-	1	-	-	-	1
NEC	-	-	1	1	-	2
NEC/Sun	-	-	1	-	-	1
NUDT	-	-	1	-	-	1
Pyramid Computer	-	-	-	1	-	1
Raytheon-Aspen Systems/Appro	-	1	-	-	-	1
Self-made	-	-	1	1	-	2
SGI	-	9	1	9	-	19
Sun Microsystems	1	5	2	3	-	11
T-Platforms	-	-	-	1	-	1
Total	1	287	51	152	9	500

Vendors/Continents (Performance in GFlops)

	Africa	Americas	Asia	Europe	Oceania	Total
ACTION	-	-	-	38170	-	38170
Appro International	-	380880	77280	-	-	458160
Bull SA	-	-	-	481080	-	481080
ClusterVision/Dell	-	-	41770	-	-	41770
ClusterVision/IBM	-	-	-	28775	-	28775
Cray Inc.	-	3933408	22930	493812	-	4450150
DALCO AG Switzerland	-	-	-	28990	-	28990
Dawning	-	-	180600	-	-	180600
Dell	-	616040	-	-	-	616040
Dell/Sun/IBM	-	132720	-	-	-	132720
DELL\ACS	-	-	38490	-	-	38490
Fujitsu	-	-	318740	-	-	318740
Hewlett-Packard	-	3575745	462466	2093218	228728	6360157
Hitachi	-	-	209601	-	-	209601
IBM	-	5936897	687122	3071610	26400	9722029
Intel	-	36000	-	-	-	36000
Koi Computers	-	37420	-	-	-	37420
Lenovo	-	-	102800	-	-	102800
Linux Networx	-	40610	-	-	-	40610
NEC	-	-	122400	50790	-	173190
NEC/Sun	-	-	87010	-	-	87010
NUDT	-	-	563100	-	-	563100
Pyramid Computer	-	-	-	32800	-	32800
Raytheon-Aspen Systems/Appro	-	26730	-	-	-	26730
Self-made	-	-	21960	21840	-	43800
SGI	-	1177768	42690	614101	-	1834559
Sun Microsystems	25440	1026270	329010	136950	-	1517670
T-Platforms	-	-	-	350100	-	350100
Total	25440	16920488	3307969	7442236	255128	27951261

Vendors/Interconnect (Systems)

	Cray Interconnect	Fat Tree	Gigabit Ethernet	Infiniband	Mixed	Myrinet	NUMalink	Proprietary	Quadrics	SP Switch	Total
ACTION	-	-	-	1	-	-	-	-	-	-	1
Appro International	-	-	-	6	-	-	-	-	-	-	6
Bull SA	-	-	-	4	-	-	-	-	1	-	5
ClusterVision/Dell	-	-	-	1	-	-	-	-	-	-	1
ClusterVision/IBM	-	-	-	1	-	-	-	-	-	-	1
Cray Inc.	2	-	-	-	-	-	-	17	-	-	19
DALCO AG Switzerland	-	-	-	-	-	-	-	-	1	-	1
Dawning	-	-	-	1	-	-	-	-	-	-	1
Dell	-	-	1	14	-	1	-	-	-	-	16
Dell/Sun/IBM	-	-	-	-	-	2	-	-	-	-	2
DELL\ACS	-	-	-	1	-	-	-	-	-	-	1
Fujitsu	-	-	-	5	-	-	-	-	-	-	5
Hewlett-Packard	-	-	164	45	-	-	-	-	1	-	210
Hitachi	-	-	-	2	-	1	-	-	-	-	3
IBM	3	-	93	62	-	3	-	20	-	4	185
Intel	-	-	-	1	-	-	-	-	-	-	1
Koi Computers	-	-	-	1	-	-	-	-	-	-	1
Lenovo	-	-	-	1	-	-	-	-	-	-	1
Linux Networx	-	-	-	1	-	-	-	-	-	-	1
NEC	-	1	-	1	-	-	-	-	-	-	2
NEC/Sun	-	-	-	1	-	-	-	-	-	-	1
NUDT	-	-	-	1	-	-	-	-	-	-	1
Pyramid Computer	-	-	1	-	-	-	-	-	-	-	1
Raytheon-Aspen Systems/Appro	-	-	-	1	-	-	-	-	-	-	1
Self-made	-	-	-	2	-	-	-	-	-	-	2
SGI	-	-	-	16	1	-	2	-	-	-	19
Sun Microsystems	-	-	-	11	-	-	-	-	-	-	11

	Cray Interconne ct	Fat Tre e	Gigabit Ethern et	Infiniband	Mixed	Myrinet	NUMAlink	Proprietary	Quadrics	SP Switc h	Total
T-Platforms	-	-	-	1	-	-	-	-	-	-	1
Total	5	1	259	181	1	7	2	37	3	4	500

Vendors/Interconnect (Performance in GFlops)

	Cray Interconnect	Fat Tree	Gigabit Ethernet	Infiniband	Mixed	Myrinet	NUMALink	Proprietary	Quadrics	SP Switch	Total
ACTION	-	-	-	38170	-	-	-	-	-	-	38170
Appro International	-	-	-	458160	-	-	-	-	-	-	458160
Bull SA	-	-	-	428240	-	-	-	-	52840	-	481080
ClusterVision/Dell	-	-	-	41770	-	-	-	-	-	-	41770
ClusterVision/IBM	-	-	-	28775	-	-	-	-	-	-	28775
Cray Inc.	69129	-	-	-	-	-	-	4381021	-	-	4450150
DALCO AG Switzerland	-	-	-	-	-	-	-	-	28990	-	28990
Dawning	-	-	-	180600	-	-	-	-	-	-	180600
Dell	-	-	26800	566650	-	22590	-	-	-	-	616040
Dell/Sun/IBM	-	-	-	-	-	132720	-	-	-	-	132720
DELL\ACS	-	-	-	38490	-	-	-	-	-	-	38490
Fujitsu	-	-	-	318740	-	-	-	-	-	-	318740
Hewlett-Packard	-	-	4548777	1790930	-	-	-	-	20450	-	6360157
Hitachi	-	-	-	107860	-	101741	-	-	-	-	209601
IBM	129030	-	2556829	3621367	-	105671	-	3167814	-	141319	9722030
Intel	-	-	-	36000	-	-	-	-	-	-	36000
Koi Computers	-	-	-	37420	-	-	-	-	-	-	37420
Lenovo	-	-	-	102800	-	-	-	-	-	-	102800
Linux Networx	-	-	-	40610	-	-	-	-	-	-	40610
NEC	-	122400	-	50790	-	-	-	-	-	-	173190
NEC/Sun	-	-	-	87010	-	-	-	-	-	-	87010
NUDT	-	-	-	563100	-	-	-	-	-	-	563100
Pyramid Computer	-	-	32800	-	-	-	-	-	-	-	32800
Raytheon-Aspen Systems/Appro	-	-	-	26730	-	-	-	-	-	-	26730
Self-made	-	-	-	43800	-	-	-	-	-	-	43800
SGI	-	-	-	1660031	66567	-	107961	-	-	-	1834559
Sun Microsystems	-	-	-	1517670	-	-	-	-	-	-	1517670

	Cray Interconnect	Fat Tree	Gigabit Ethernet	Infiniband	Mixed	Myrinet	NUMalink	Proprietary	Quadrics	SP Switch	Total
T-Platforms	-	-	-	350100	-	-	-	-	-	-	350100
Total	198159	122400	7165206	12135813	66567	362722	107961	7548835	102280	141319	27951262

Vendors/Proc. Family (Systems)

	AMD x86_64	Intel EM64 T	Intel IA- 64	NEC	Others	Power	Sparc	Total
ACTION	-	1	-	-	-	-	-	1
Appro International	6	-	-	-	-	-	-	6
Bull SA	-	3	2	-	-	-	-	5
ClusterVision/Dell	-	1	-	-	-	-	-	1
ClusterVision/IBM	-	1	-	-	-	-	-	1
Cray Inc.	19	-	-	-	-	-	-	19
DALCO AG Switzerland	-	1	-	-	-	-	-	1
Dawning	1	-	-	-	-	-	-	1
Dell	1	15	-	-	-	-	-	16
Dell/Sun/IBM	-	2	-	-	-	-	-	2
DELL\ACS	-	1	-	-	-	-	-	1
Fujitsu	1	2	-	-	-	-	2	5
Hewlett-Packard	7	202	1	-	-	-	-	210
Hitachi	1	-	-	-	-	2	-	3
IBM	2	133	-	-	-	50	-	185
Intel	-	1	-	-	-	-	-	1
Koi Computers	1	-	-	-	-	-	-	1
Lenovo	-	1	-	-	-	-	-	1
Linux Networx	-	1	-	-	-	-	-	1
NEC	-	1	-	1	-	-	-	2
NEC/Sun	1	-	-	-	-	-	-	1
NUDT	-	1	-	-	-	-	-	1
Pyramid Computer	-	1	-	-	-	-	-	1
Raytheon-Aspen Systems/Appro	-	1	-	-	-	-	-	1
Self-made	-	1	-	-	1	-	-	2
SGI	-	16	3	-	-	-	-	19
Sun Microsystems	2	9	-	-	-	-	-	11

	AMD x86_64	Intel EM64 T	Intel IA- 64	NEC	Others	Power	Sparc	Total
T-Platforms	-	1	-	-	-	-	-	1
Total	42	396	6	1	1	52	2	500

Vendors/Proc. Family (Performance in GFlops)

	AMD x86_64	Intel EM64T	Intel IA-64	NEC	Others	Power	Sparc	Total
ACTION	-	38170	-	-	-	-	-	38170
Appro International	458160	-	-	-	-	-	-	458160
Bull SA	-	386110	94970	-	-	-	-	481080
ClusterVision/Dell	-	41770	-	-	-	-	-	41770
ClusterVision/IBM	-	28775	-	-	-	-	-	28775
Cray Inc.	4450150	-	-	-	-	-	-	4450150
DALCO AG Switzerland	-	28990	-	-	-	-	-	28990
Dawning	180600	-	-	-	-	-	-	180600
Dell	21500	594540	-	-	-	-	-	616040
Dell/Sun/IBM	-	132720	-	-	-	-	-	132720
DELL\ACS	-	38490	-	-	-	-	-	38490
Fujitsu	50510	129120	-	-	-	-	139110	318740
Hewlett-Packard	271669	6068038	20450	-	-	-	-	6360157
Hitachi	101741	-	-	-	-	107860	-	209601
IBM	66370	3743111	-	-	-	5912548	-	9722029
Intel	-	36000	-	-	-	-	-	36000
Koi Computers	37420	-	-	-	-	-	-	37420
Lenovo	-	102800	-	-	-	-	-	102800
Linux Networx	-	40610	-	-	-	-	-	40610
NEC	-	50790	-	122400	-	-	-	173190
NEC/Sun	87010	-	-	-	-	-	-	87010
NUDT	-	563100	-	-	-	-	-	563100
Pyramid Computer	-	32800	-	-	-	-	-	32800
Raytheon-Aspen Systems/Appro	-	26730	-	-	-	-	-	26730
Self-made	-	21840	-	-	21960	-	-	43800
SGI	-	1660031	174528	-	-	-	-	1834559
Sun Microsystems	485080	1032590	-	-	-	-	-	1517670
T-Platforms	-	350100	-	-	-	-	-	350100

	AMD x86_64	Intel EM64T	Intel IA-64	NEC	Others	Power	Sparc	Total
Total	6210210	15147225	289948	122400	21960	6020408	139110	27951261

Segment/Proc. Family (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
AMD x86_64	16	1	1	6	17	1	42
Intel EM64T	45	4	7	306	34	-	396
Intel IA-64	1	-	1	-	4	-	6
NEC	-	-	-	-	1	-	1
Others	1	-	-	-	-	-	1
Power	14	-	-	1	34	3	52
Sparc	1	-	-	-	1	-	2
Total	78	5	9	313	91	4	500

Segment/Proc. Family (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
AMD x86_64	2186742	33929	165600	174598	3558261	91080	6210210
Intel EM64T	2373239	106341	393068	8736711	3537866	-	15147225
Intel IA-64	56520	-	20450	-	212978	-	289948
NEC	-	-	-	-	122400	-	122400
Others	21960	-	-	-	-	-	21960
Power	856384	-	-	95450	4937529	131045	6020408
Sparc	28510	-	-	-	110600	-	139110
Total	5523355	140270	579118	9006759	12479634	222125	27951261