
TOP500 Report for May 2010

TOP500 Team

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Countries

Countries	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Australia	1	0.2000 %	49590	0.15 %	49590.00 00	4600	0.0896 %	4600
Austria	2	0.4000 %	62876	0.19 %	31438.00 00	6450	0.1256 %	3225
Brazil	1	0.2000 %	64630	0.20 %	64630.00 00	6464	0.1259 %	6464
Canada	7	1.4000 %	403950	1.25 %	57707.14 29	56192	1.0944 %	8027
China	24	4.8000 %	2992630	9.23 %	124692.9 167	383976	7.4782 %	15999
Denmark	3	0.6000 %	81761	0.25 %	27253.66 67	16000	0.3116 %	5333
Finland	2	0.4000 %	103047	0.32 %	51523.50 00	14584	0.2840 %	7292
France	29	5.8000 %	1756211	5.42 %	60559.00 00	289160	5.6316 %	9971
Germany	24	4.8000 %	2248464	6.94 %	93686.00 00	467068	9.0965 %	19461
Hong Kong	1	0.2000 %	32325	0.10 %	32325.00 00	5600	0.1091 %	5600
India	5	1.0000 %	283380	0.87 %	56676.00 00	30104	0.5863 %	6020
Ireland	1	0.2000 %	25110	0.08 %	25110.00 00	2560	0.0499 %	2560
Israel	2	0.4000 %	49340	0.15 %	24670.00 00	13272	0.2585 %	6636
Italy	7	1.4000 %	281511	0.87 %	40215.85 71	30768	0.5992 %	4395
Japan	18	3.6000 %	1252711	3.86 %	69595.05 56	149480	2.9112 %	8304

Countries	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Korea, South	1	0.2000 %	274800	0.85 %	274800.0 000	26232	0.5109 %	26232
Netherlands	3	0.6000 %	110653	0.34 %	36884.33 33	21336	0.4155 %	7112
New Zealand	7	1.4000 %	211316	0.65 %	30188.00 00	36592	0.7127 %	5227
Norway	2	0.4000 %	72454	0.22 %	36227.00 00	11182	0.2178 %	5591
Poland	5	1.0000 %	169040	0.52 %	33808.00 00	27128	0.5283 %	5425
Russia	11	2.2000 %	814710	2.51 %	74064.54 55	97624	1.9013 %	8874
Saudi Arabia	4	0.8000 %	310865	0.96 %	77716.25 00	77920	1.5176 %	19480
Singapore	1	0.2000 %	32540	0.10 %	32540.00 00	3024	0.0589 %	3024
Slovenia	1	0.2000 %	36753	0.11 %	36753.00 00	4096	0.0798 %	4096
South Africa	1	0.2000 %	25440	0.08 %	25440.00 00	2624	0.0511 %	2624
Spain	3	0.6000 %	138513	0.43 %	46171.00 00	22496	0.4381 %	7498
Sweden	8	1.6000 %	416016	1.28 %	52002.00 00	56960	1.1093 %	7120
Switzerland	5	1.0000 %	346885	1.07 %	69377.00 00	52360	1.0198 %	10472
Turkey	1	0.2000 %	26784	0.08 %	26784.00 00	4640	0.0904 %	4640
United Kingdom	38	7.6000 %	1785455	5.51 %	46985.65 79	243408	4.7406 %	6405
United States	282	56.4000 %	17959675	55.40 %	63686.79 08	2970689	57.8564 %	10534
All	500	100%	32419400	100%		5134589	100%	

Geographical Region

			Rmax			Cores		
Geographical Region	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Australia and New Zealand	8	1.6000 %	260906	0.80 %	32613.2500	41192	0.8022 %	5149
Eastern Asia	44	8.8000 %	4552466	14.04 %	103465.1364	565288	11.0094 %	12847
Eastern Europe	16	3.2000 %	983751	3.03 %	61484.4375	124752	2.4296 %	7797
North America	289	57.8000 %	18363625	56.64 %	63541.9550	3026881	58.9508 %	10473
Northern Europe	54	10.8000 %	2483843	7.66 %	45997.0926	344694	6.7132 %	6383
South America	1	0.2000 %	64630	0.20 %	64630.0000	6464	0.1259 %	6464
South-central Asia	5	1.0000 %	283380	0.87 %	56676.0000	30104	0.5863 %	6020
South-eastern Asia	1	0.2000 %	32540	0.10 %	32540.0000	3024	0.0589 %	3024
Southern Africa	1	0.2000 %	25440	0.08 %	25440.0000	2624	0.0511 %	2624
Southern Europe	11	2.2000 %	456776	1.41 %	41525.0909	57360	1.1171 %	5214
Western Asia	7	1.4000 %	386988	1.19 %	55284.0000	95832	1.8664 %	13690
Western Europe	63	12.6000 %	4525088	13.96 %	71826.7937	836374	16.2890 %	13275
All	500	100%	32419400	100%		5134589	100%	

Architectures

Architectures	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Cluster	424	84.8000 %	20860375	64.35 %	49198.9976	2983152	58.0991 %	7035
Constellations	2	0.4000 %	94970	0.29 %	47485.0000	17648	0.3437 %	8824
MPP	74	14.8000 %	11464088	35.36 %	154920.1081	2133789	41.5572 %	28834
All	500	100%	32419400	100%		5134589	100%	

Continent

			Rmax			Cores		
Continent	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Africa	1	0.2000 %	25440	0.08 %	25440.0000	2624	0.0511 %	2624
Americas	290	58.0000 %	18428255	56.84 %	63545.7069	3033345	59.0767 %	10459
Asia	57	11.4000 %	5255374	16.21 %	92199.5439	694248	13.5210 %	12179
Europe	144	28.8000 %	8449458	26.06 %	58676.7917	1363180	26.5490 %	9466
Oceania	8	1.6000 %	260906	0.80 %	32613.2500	41192	0.8022 %	5149
All	500	100%	32419400	100%		5134589	100%	

Manufacturer

			Rmax			Cores		
Manufacturer	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
ACTION	1	0.2000 %	38170	0.12 %	38170.00 00	5336	0.1039 %	5336
Appro International	6	1.2000 %	458160	1.41 %	76360.00 00	71712	1.3966 %	11952
Bull SA	9	1.8000 %	762500	2.35 %	84722.22 22	91472	1.7815 %	10163
ClusterVision	1	0.2000 %	28030	0.09 %	28030.00 00	3792	0.0739 %	3792
ClusterVision/Dell	1	0.2000 %	41770	0.13 %	41770.00 00	4096	0.0798 %	4096
ClusterVision/IBM	1	0.2000 %	28775	0.09 %	28775.00 00	3360	0.0654 %	3360
Cray Inc.	21	4.2000 %	4786011	14.76 %	227905.2 857	649805	12.6554 %	30943
DALCO AG Switzerland	1	0.2000 %	28990	0.09 %	28990.00 00	2880	0.0561 %	2880
Dawning	2	0.4000 %	1451600	4.48 %	725800.0 000	151360	2.9479 %	75680
Dell	17	3.4000 %	821720	2.53 %	48336.47 06	106514	2.0744 %	6265
Dell/Sun/IBM	2	0.4000 %	149470	0.46 %	74735.00 00	20520	0.3996 %	10260
DELL\ACS	1	0.2000 %	38490	0.12 %	38490.00 00	4096	0.0798 %	4096
Fujitsu	7	1.4000 %	542680	1.67 %	77525.71 43	53784	1.0475 %	7683
Hewlett-Packard	185	37.0000 %	6618058	20.41 %	35773.28 65	1060400	20.6521 %	5731
Hitachi	3	0.6000 %	209601	0.65 %	69867.00 00	23072	0.4493 %	7690

Manufacturer	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
IBM	198	39.6000 %	10891475	33.60 %	55007.44 95	2241840	43.6615 %	11322
Inspur	1	0.2000 %	34080	0.11 %	34080.00 00	3800	0.0740 %	3800
Intel	1	0.2000 %	50370	0.16 %	50370.00 00	4824	0.0940 %	4824
IPE, nVidia Tesla C2050, Tyan	1	0.2000 %	207300	0.64 %	207300.0 000	33120	0.6450 %	33120
Koi Computers	1	0.2000 %	37420	0.12 %	37420.00 00	6720	0.1309 %	6720
Lenovo	1	0.2000 %	102800	0.32 %	102800.0 000	12216	0.2379 %	12216
Linux Networx	1	0.2000 %	40610	0.13 %	40610.00 00	4416	0.0860 %	4416
NEC	2	0.4000 %	173190	0.53 %	86595.00 00	6656	0.1296 %	3328
NEC/Sun	1	0.2000 %	87010	0.27 %	87010.00 00	31024	0.6042 %	31024
NUDT	1	0.2000 %	563100	1.74 %	563100.0 000	71680	1.3960 %	71680
Penguin Computing	1	0.2000 %	53050	0.16 %	53050.00 00	8640	0.1683 %	8640
Pyramid Computer	1	0.2000 %	32800	0.10 %	32800.00 00	5420	0.1056 %	5420
Raytheon-Aspen Systems/Appro	1	0.2000 %	26730	0.08 %	26730.00 00	3440	0.0670 %	3440
SGI	17	3.4000 %	2150944	6.63 %	126526.1 176	232192	4.5221 %	13658
SKIF/T-Platforms	1	0.2000 %	47170	0.15 %	47170.00 00	5000	0.0974 %	5000
Sun Microsystems	12	2.4000 %	1567260	4.83 %	130605.0 000	176042	3.4286 %	14670
T-Platforms	1	0.2000 %	350100	1.08 %	350100.0 000	35360	0.6887 %	35360

Manufacturer	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
All	500	100%	32419400	100%		5134589	100%	

Producer Region

Producer Region	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Eastern Asia	11	2.2000 %	2621381	8.09 %	238307.3636	299808	5.8390 %	27255
Eastern Europe	3	0.6000 %	435440	1.34 %	145146.6667	45696	0.8900 %	15232
North America	473	94.6000 %	28481518	87.85 %	60214.6258	4682161	91.1886 %	9898
Northern Europe	1	0.2000 %	28775	0.09 %	28775.0000	3360	0.0654 %	3360
Western Europe	12	2.4000 %	852320	2.63 %	71026.6667	103564	2.0170 %	8630
All	500	100%	32419400	100%		5134589	100%	

Site Segments

Site Segments	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Academic	77	15.4000 %	6423165	19.81 %	83417.72 73	933240	18.1756 %	12120
Classified	12	2.4000 %	368684	1.14 %	30723.66 67	43136	0.8401 %	3594
Government	12	2.4000 %	855380	2.64 %	71281.66 67	115312	2.2458 %	9609
Industry	302	60.4000 %	9975615	30.77 %	33031.83 77	1654952	32.2314 %	5479
Research	92	18.4000 %	14490354	44.70 %	157503.8 478	2336023	45.4958 %	25391
Vendor	5	1.0000 %	306235	0.94 %	61247.00 00	51926	1.0113 %	10385
All	500	100%	32419400	100%		5134589	100%	

Application Area

Application Area	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Aerospace	5	1.0000 %	309700	0.96 %	61940.0000	31936	0.6220 %	6387
Automotive	2	0.4000 %	64523	0.20 %	32261.5000	8560	0.1667 %	4280
Benchmarking	4	0.8000 %	242985	0.75 %	60746.2500	44726	0.8711 %	11181
Biology	1	0.2000 %	53050	0.16 %	53050.0000	8640	0.1683 %	8640
Consulting	1	0.2000 %	43001	0.13 %	43001.0000	6768	0.1318 %	6768
Database	5	1.0000 %	138347	0.43 %	27669.4000	25848	0.5034 %	5169
Defense	16	3.2000 %	1243247	3.83 %	77702.9375	152384	2.9678 %	9524
Digital Media	1	0.2000 %	24670	0.08 %	24670.0000	5744	0.1119 %	5744
Energy	6	1.2000 %	211090	0.65 %	35181.6667	28672	0.5584 %	4778
Entertainment	3	0.6000 %	96474	0.30 %	32158.0000	15088	0.2939 %	5029
Finance	53	10.6000 %	1590045	4.90 %	30000.8491	283880	5.5288 %	5356
Gaming	2	0.4000 %	49340	0.15 %	24670.0000	15264	0.2973 %	7632
Geophysics	24	4.8000 %	767157	2.37 %	31964.8750	109112	2.1250 %	4546
Hardware	2	0.4000 %	56255	0.17 %	28127.5000	8360	0.1628 %	4180
Information Processing Service	16	3.2000 %	584510	1.80 %	36531.8750	118488	2.3076 %	7405

Application Area	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Information Service	33	6.6000 %	1102569	3.40 %	33411.1818	181448	3.5338 %	5498
Life Science	1	0.2000 %	97071	0.30 %	97071.0000	18176	0.3540 %	18176
Logistic Services	29	5.8000 %	990192	3.05 %	34144.5517	164600	3.2057 %	5675
Media	2	0.4000 %	58805	0.18 %	29402.5000	11056	0.2153 %	5528
Medicine	3	0.6000 %	153850	0.47 %	51283.3333	20000	0.3895 %	6666
Not Specified	151	30.2000 %	12654489	39.03 %	83804.5629	1879827	36.6111 %	12449
Research	82	16.4000 %	9816085	30.28 %	119708.3537	1679208	32.7038 %	20478
Retail	7	1.4000 %	224383	0.69 %	32054.7143	41964	0.8173 %	5994
Semiconductor	15	3.0000 %	432297	1.33 %	28819.8000	65072	1.2673 %	4338
Service	7	1.4000 %	216612	0.67 %	30944.5714	37928	0.7387 %	5418
Software	7	1.4000 %	249991	0.77 %	35713.0000	44976	0.8759 %	6425
Telecomm	8	1.6000 %	235066	0.73 %	29383.2500	43760	0.8523 %	5470
Weather and Climate Research	4	0.8000 %	342694	1.06 %	85673.5000	24320	0.4737 %	6080
Weather Forecasting	3	0.6000 %	130457	0.40 %	43485.6667	10480	0.2041 %	3493
WWW	7	1.4000 %	240478	0.74 %	34354.0000	48304	0.9408 %	6900
All	500	100%	32419400	100%		5134589	100%	

Interconnect

Interconnect			Rmax			Cores		
			Count	Percent	Sum (GFlops)	Share	Mean	Sum
10G Ethernet	2	0.4000 %	88002	0.27 %	44001.0000	11944	0.2326 %	5972
Custom	8	1.6000 %	617300	1.90 %	77162.5000	89450	1.7421 %	11181
Fat Tree Network	1	0.2000 %	122400	0.38 %	122400.0000	1280	0.0249 %	1280
Federation	2	0.4000 %	101179	0.31 %	50589.5000	16304	0.3175 %	8152
Gigabit Ethernet	242	48.4000 %	7737373	23.87 %	31972.6157	1411596	27.4919 %	5833
Infiniband DDR 4x	15	3.0000 %	1467540	4.53 %	97836.0000	182768	3.5595 %	12184
Infiniband	145	29.0000 %	10015443	30.89 %	69072.0207	1100108	21.4254 %	7586
Infiniband DDR	31	6.2000 %	1803283	5.56 %	58170.4194	239232	4.6592 %	7717
Infiniband QDR	11	2.2000 %	2172750	6.70 %	197522.7273	229304	4.4659 %	20845
Infiniband QDR Sun M9 / Mellanox / ParTec	1	0.2000 %	274800	0.85 %	274800.0000	26304	0.5123 %	26304
Infiniband SDR	2	0.4000 %	97250	0.30 %	48625.0000	13760	0.2680 %	6880
Myrinet	1	0.2000 %	63830	0.20 %	63830.0000	10240	0.1994 %	10240
Myrinet 10G	3	0.6000 %	251211	0.77 %	83737.0000	35624	0.6938 %	11874
NUMAlink	2	0.4000 %	107961	0.33 %	53980.5000	18944	0.3689 %	9472
Numalink/Infiniband	1	0.2000 %	66567	0.21 %	66567.0000	13824	0.2692 %	13824

Interconnect	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Proprietary	18	3.6000 %	5843404	18.02 %	324633.556	1508178	29.3729 %	83787
Quadrics	2	0.4000 %	81830	0.25 %	40915.0000	12848	0.2502 %	6424
XT3 Internal Interconnect	1	0.2000 %	35200	0.11 %	35200.0000	8192	0.1595 %	8192
XT4 Internal Interconnect	12	2.4000 %	1472111	4.54 %	122675.9167	204689	3.9865 %	17057
All	500	100%	32419400	100%		5134589	100%	

Interconnect Family

Interconnect Family	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Cray Interconnect	1	0.2000 %	35200	0.11 %	35200.00 00	8192	0.1595 %	8192
Custom	8	1.6000 %	617300	1.90 %	77162.50 00	89450	1.7421 %	11181
Fat Tree	1	0.2000 %	122400	0.38 %	122400.0 000	1280	0.0249 %	1280
Gigabit Ethernet	244	48.8000 %	7825375	24.14 %	32071.20 90	1423540	27.7245 %	5834
Infiniband	205	41.0000 %	15831066	48.83 %	77224.71 22	1791476	34.8903 %	8738
Mixed	1	0.2000 %	66567	0.21 %	66567.00 00	13824	0.2692 %	13824
Myrinet	4	0.8000 %	315041	0.97 %	78760.25 00	45864	0.8932 %	11466
NUMalink	2	0.4000 %	107961	0.33 %	53980.50 00	18944	0.3689 %	9472
Proprietary	30	6.0000 %	7315515	22.57 %	243850.5 000	1712867	33.3594 %	57095
Quadrics	2	0.4000 %	81830	0.25 %	40915.00 00	12848	0.2502 %	6424
SP Switch	2	0.4000 %	101179	0.31 %	50589.50 00	16304	0.3175 %	8152
All	500	100%	32419400	100%		5134589	100%	

System Families

System Families	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
ACTION Cluster	1	0.2000 %	38170	0.12 %	38170.00 00	5336	0.1039 %	5336
Appro XtremeServer	6	1.2000 %	458160	1.41 %	76360.00 00	71712	1.3966 %	11952
Bull bullx super-node	2	0.4000 %	196270	0.61 %	98135.00 00	25920	0.5048 %	12960
Bull Cluster	4	0.8000 %	196460	0.61 %	49115.00 00	21600	0.4207 %	5400
Bull SMP Cluster	2	0.4000 %	94970	0.29 %	47485.00 00	17648	0.3437 %	8824
ClusterVision Cluster	1	0.2000 %	28030	0.09 %	28030.00 00	3792	0.0739 %	3792
Cray XT	21	4.2000 %	4786011	14.76 %	227905.2 857	649805	12.6554 %	30943
Custom Cluster	1	0.2000 %	207300	0.64 %	207300.0 000	33120	0.6450 %	33120
Dalco Cluster	1	0.2000 %	28990	0.09 %	28990.00 00	2880	0.0561 %	2880
Dawning Cluster	2	0.4000 %	1451600	4.48 %	725800.0 000	151360	2.9479 %	75680
Dell Cloud Computing (DCS)	1	0.2000 %	39580	0.12 %	39580.00 00	4608	0.0897 %	4608
Dell PowerEdge Cluster	18	3.6000 %	862400	2.66 %	47911.11 11	110098	2.1442 %	6116
Dell/Sun/IBM Cluster	2	0.4000 %	149470	0.46 %	74735.00 00	20520	0.3996 %	10260
Fujitsu Cluster	7	1.4000 %	542680	1.67 %	77525.71 43	53784	1.0475 %	7683
Hitachi Cluster	1	0.2000 %	101741	0.31 %	101741.0 000	15104	0.2942 %	15104

System Families	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Hitachi SR16000	2	0.4000 %	107860	0.33 %	53930.00 00	7968	0.1552 %	3984
HP Cluster Platform 3000	3	0.6000 %	137322	0.42 %	45774.00 00	18992	0.3699 %	6330
HP Cluster Platform 3000BL	162	32.4000 %	5785646	17.85 %	35713.86 42	915720	17.8343 %	5652
HP Cluster Platform 3000SL	12	2.4000 %	384260	1.19 %	32021.66 67	71016	1.3831 %	5918
HP Cluster Platform 4000	1	0.2000 %	97071	0.30 %	97071.00 00	18176	0.3540 %	18176
HP Cluster Platform 4000BL	7	1.4000 %	213758	0.66 %	30536.85 71	36496	0.7108 %	5213
IBM BlueGene	15	3.0000 %	3048504	9.40 %	203233.6 000	1146880	22.3364 %	76458
IBM Cluster	166	33.2000 %	6623377	20.43 %	39899.86 14	1002656	19.5275 %	6040
IBM pSeries	18	3.6000 %	1248369	3.85 %	69353.83 33	95664	1.8631 %	5314
Inspur Cluster	1	0.2000 %	34080	0.11 %	34080.00 00	3800	0.0740 %	3800
Intel Cluster	1	0.2000 %	50370	0.16 %	50370.00 00	4824	0.0940 %	4824
KOI Cluster	1	0.2000 %	37420	0.12 %	37420.00 00	6720	0.1309 %	6720
Lenovo Cluster	1	0.2000 %	102800	0.32 %	102800.0 000	12216	0.2379 %	12216
Linux Networx Evolocity	1	0.2000 %	40610	0.13 %	40610.00 00	4416	0.0860 %	4416
NEC Cluster	1	0.2000 %	50790	0.16 %	50790.00 00	5376	0.1047 %	5376
NEC Vector	1	0.2000 %	122400	0.38 %	122400.0 000	1280	0.0249 %	1280
NOW - Intel	1	0.2000 %	26730	0.08 %	26730.00 00	3440	0.0670 %	3440

System Families	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
NUDT Cluster	1	0.2000 %	563100	1.74 %	563100.0 000	71680	1.3960 %	71680
Penguin Computing Cluster	1	0.2000 %	53050	0.16 %	53050.00 00	8640	0.1683 %	8640
Pyramid Cluster	1	0.2000 %	32800	0.10 %	32800.00 00	5420	0.1056 %	5420
SGI Altix	17	3.4000 %	2150944	6.63 %	126526.1 176	232192	4.5221 %	13658
Sun Blade System	12	2.4000 %	1567260	4.83 %	130605.0 000	176042	3.4286 %	14670
Sun Fire - Cluster	1	0.2000 %	87010	0.27 %	87010.00 00	31024	0.6042 %	31024
Sun-Bull-ParTec Cluster	1	0.2000 %	274800	0.85 %	274800.0 000	26304	0.5123 %	26304
T-Platforms Cluster	2	0.4000 %	397270	1.23 %	198635.0 000	40360	0.7860 %	20180
All	500	100%	32419400	100%		5134589	100%	

Cores Per System

Cores Per System	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
128k-	5	1.0000 %	3937011	12.14 %	787402.2000	1043362	20.3203 %	208672
64k-128k	3	0.6000 %	2646400	8.16 %	882133.3333	303248	5.9060 %	101082
32k-64k	13	2.6000 %	3953587	12.20 %	304122.0769	604670	11.7764 %	46513
16k-32k	18	3.6000 %	3393408	10.47 %	188522.6667	497532	9.6898 %	27640
8k-16k	57	11.4000 %	4605306	14.21 %	80794.8421	638093	12.4273 %	11194
4k-8k	293	58.6000 %	10306858	31.79 %	35176.9898	1670410	32.5325 %	5701
2049-4096	109	21.8000 %	3428062	10.57 %	31450.1101	374202	7.2879 %	3433
1025-2048	2	0.4000 %	148800	0.46 %	74400.0000	3072	0.0598 %	1536
All	500	100%	32419400	100%		5134589	100%	

Processors

Processors	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Xeon E54xx (Harpertown)	124	24.8000 %	5157072	15.91 %	41589.2903	742148	14.4539 %	5985
Xeon X55xx (Nehalem-EP)	96	19.2000 %	5283750	16.30 %	55039.0625	605864	11.7997 %	6311
Xeon E55xx (Nehalem-EP)	77	15.4000 %	3238020	9.99 %	42052.2078	545024	10.6148 %	7078
Xeon L54xx (Harpertown)	47	9.4000 %	1656213	5.11 %	35238.5745	293696	5.7200 %	6248
Opteron Quad Core	31	6.2000 %	2956828	9.12 %	95381.5484	436641	8.5039 %	14085
POWER6	18	3.6000 %	1255050	3.87 %	69725.0000	87328	1.7008 %	4851
Xeon 53xx (Clovertown)	14	2.8000 %	757758	2.34 %	54125.5714	102144	1.9893 %	7296
Xeon X54xx (Harpertown)	11	2.2000 %	439467	1.36 %	39951.5455	57060	1.1113 %	5187
Xeon L55xx (Nehalem-EP)	11	2.2000 %	515368	1.59 %	46851.6364	83568	1.6275 %	7597
PowerPC 450	10	2.0000 %	2296371	7.08 %	229637.1000	811008	15.7950 %	81100
Xeon 51xx (Woodcrest)	10	2.0000 %	330499	1.02 %	33049.9000	39276	0.7649 %	3927
Opteron Dual Core	6	1.2000 %	452170	1.39 %	75361.6667	103352	2.0129 %	17225
Xeon X56xx (Westmere-EP)	6	1.2000 %	1551699	4.79 %	258616.5000	150264	2.9265 %	25044
PowerXCell 8i	6	1.2000 %	1365250	4.21 %	227541.6667	157824	3.0737 %	26304
Opteron Six Core	5	1.0000 %	2845325	8.78 %	569065.0000	359714	7.0057 %	71942

Processors	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Opteron 12 Core	5	1.0000 %	483800	1.49 %	96760.00 00	75626	1.4729 %	15125
PowerPC 440	5	1.0000 %	752133	2.32 %	150426.6 000	335872	6.5414 %	67174
Itanium2 Montecito Dual Core	4	0.8000 %	218057	0.67 %	54514.25 00	41200	0.8024 %	10300
SPARC64 VII	2	0.4000 %	139110	0.43 %	69555.00 00	15104	0.2942 %	7552
Xeon 75xx (Nehalem-EX)	2	0.4000 %	196270	0.61 %	98135.00 00	25920	0.5048 %	12960
Xeon EM64T	1	0.2000 %	53000	0.16 %	53000.00 00	9024	0.1757 %	9024
POWER5+	1	0.2000 %	25419	0.08 %	25419.00 00	4096	0.0798 %	4096
Xeon 32xx (Kentsfield)	1	0.2000 %	32800	0.10 %	32800.00 00	5420	0.1056 %	5420
Xeon L56xx (Westmere- EP)	1	0.2000 %	39934	0.12 %	39934.00 00	6144	0.1197 %	6144
NEC	1	0.2000 %	122400	0.38 %	122400.0 000	1280	0.0249 %	1280
Itanium 2 Dual Core	1	0.2000 %	51441	0.16 %	51441.00 00	9216	0.1795 %	9216
PowerPC 970	1	0.2000 %	63830	0.20 %	63830.00 00	10240	0.1994 %	10240
POWER5	1	0.2000 %	75760	0.23 %	75760.00 00	12208	0.2378 %	12208
Xeon 52xx (Wolfdale)	1	0.2000 %	26537	0.08 %	26537.00 00	3720	0.0724 %	3720
Xeon 73xx (Tigerton)	1	0.2000 %	38100	0.12 %	38100.00 00	4608	0.0897 %	4608
All	500	100%	32419400	100%		5134589	100%	

Processor Families

Processor Families	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
Intel EM64T	403	80.6000 %	19316489	59.58 %	47931.7345	2673880	52.0758 %	6634
AMD x86_64	47	9.4000 %	6738124	20.78 %	143364.3404	975333	18.9953 %	20751
Power	42	8.4000 %	5833813	17.99 %	138900.3095	1418576	27.6278 %	33775
Intel IA-64	5	1.0000 %	269498	0.83 %	53899.6000	50416	0.9819 %	10083
Sparc	2	0.4000 %	139110	0.43 %	69555.0000	15104	0.2942 %	7552
NEC	1	0.2000 %	122400	0.38 %	122400.0000	1280	0.0249 %	1280
All	500	100%	32419400	100%		5134589	100%	

Processor Architecutre

			Rmax			Cores		
Processor Architecutre	Count	Percent	Sum (GFlops)	Share	Mean	Sum	Share	Mean
Scalar	499	99.8000 %	32297034	99.62 %	64723.5150	5133309	99.9751 %	10287
Vector	1	0.2000 %	122400	0.38 %	122400.0000	1280	0.0249 %	1280
All	500	100%	32419400	100%		5134589	100%	

Installation Year

Installation Year	Count	Percent	Rmax			Cores		
			Sum (GFlops)	Share	Mean	Sum	Share	Mean
2005	2	0.4000 %	118740	0.37 %	59370.0000	53248	1.0370 %	26624
2006	6	1.2000 %	323020	1.00 %	53836.6667	54832	1.0679 %	9138
2007	18	3.6000 %	1841054	5.68 %	102280.778	568760	11.0770 %	31597
2008	62	12.4000 %	4053417	12.50 %	65377.6935	594501	11.5784 %	9588
2009	229	45.8000 %	16802646	51.83 %	73374.0000	2583362	50.3129 %	11281
2010	183	36.6000 %	9280556	28.63 %	50713.4208	1279886	24.9267 %	6993
All	500	100%	32419400	100%		5134589	100%	

Vendors/Customer Segments (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
ACTION	1	-	-	-	-	-	1
Appro International	1	-	-	-	5	-	6
Bull SA	-	3	-	-	5	1	9
ClusterVision	1	-	-	-	-	-	1
ClusterVision/Dell	-	-	-	1	-	-	1
ClusterVision/IBM	1	-	-	-	-	-	1
Cray Inc.	9	-	1	-	9	2	21
DALCO AG Switzerland	-	-	-	1	-	-	1
Dawning	-	-	-	-	2	-	2
Dell	13	-	-	1	3	-	17
Dell/Sun/IBM	2	-	-	-	-	-	2
DELL\ACS	-	-	-	1	-	-	1
Hewlett-Packard	9	-	3	167	6	-	185
Hitachi	1	-	-	-	2	-	3
IBM	18	9	6	128	35	2	198
Inspur	1	-	-	-	-	-	1
Intel	-	-	-	1	-	-	1
IPE, nVidia Tesla C2050, Tyan	1	-	-	-	-	-	1
Koi Computers	-	-	-	-	1	-	1
Lenovo	1	-	-	-	-	-	1
Linux Networx	-	-	-	-	1	-	1
NEC	-	-	-	1	1	-	2
NEC/Sun	1	-	-	-	-	-	1
NUDT	-	-	-	-	1	-	1
Penguin Computing	-	-	-	-	1	-	1
Pyramid Computer	-	-	-	-	1	-	1
Raytheon-Aspen Systems/Appro	-	-	-	-	1	-	1
SGI	4	-	1	1	11	-	17
SKIF/T-Platforms	1	-	-	-	-	-	1

	Academic	Classified	Government	Industry	Research	Vendor	Total
Sun Microsystems	9	-	-	-	3	-	12
T-Platforms	1	-	-	-	-	-	1
Total	77	12	12	302	92	5	500

Vendors/Customer Segments (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
ACTION	38170	-	-	-	-	-	38170
Appro International	77280	-	-	-	380880	-	458160
Bull SA	-	87960	-	-	587070	87470	762500
ClusterVision	28030	-	-	-	-	-	28030
ClusterVision/Dell	-	-	-	41770	-	-	41770
ClusterVision/IBM	28775	-	-	-	-	-	28775
Cray Inc.	1650331	-	165600	-	2862290	107790	4786011
DALCO AG Switzerland	-	-	-	28990	-	-	28990
Dawning	-	-	-	-	1451600	-	1451600
Dell	606170	-	-	39580	175970	-	821720
Dell/Sun/IBM	149470	-	-	-	-	-	149470
DELL\ACS	-	-	-	38490	-	-	38490
Hewlett-Packard	433263	-	307857	5547076	329862	-	6618058
Hitachi	101741	-	-	-	107860	-	209601
IBM	1074965	280724	189183	4072450	5163178	110975	10891475
Inspur	34080	-	-	-	-	-	34080
Intel	-	-	-	50370	-	-	50370
IPE, nVidia Tesla C2050, Tyan	207300	-	-	-	-	-	207300
Koi Computers	-	-	-	-	37420	-	37420
Lenovo	102800	-	-	-	-	-	102800
Linux Networx	-	-	-	-	40610	-	40610
NEC	-	-	-	50790	122400	-	173190
NEC/Sun	87010	-	-	-	-	-	87010
NUDT	-	-	-	-	563100	-	563100
Penguin Computing	-	-	-	-	53050	-	53050
Pyramid Computer	-	-	-	-	32800	-	32800
Raytheon-Aspen Systems/Appro	-	-	-	-	26730	-	26730
SGI	508520	-	160200	106100	1376124	-	2150944
SKIF/T-Platforms	47170	-	-	-	-	-	47170

	Academic	Classified	Government	Industry	Research	Vendor	Total
Sun Microsystems	818970	-	-	-	748290	-	1567260
T-Platforms	350100	-	-	-	-	-	350100
Total	6423165	368684	855380	9975616	14490354	306235	32419434

Continents/Customer Segments (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Africa	1	-	-	-	-	-	1
Americas	30	4	6	195	51	4	290
Asia	11	-	1	30	15	-	57
Europe	35	8	5	71	24	1	144
Oceania	-	-	-	6	2	-	8
Total	77	12	12	302	92	5	500

Continents/Customer Segments (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Africa	25440	-	-	-	-	-	25440
Americas	2670458	137425	450311	6241526	8709769	218765	18428254
Asia	965651	-	32540	1127713	3129470	-	5255374
Europe	2761615	231259	372529	2421460	2575124	87470	8449457
Oceania	-	-	-	184916	75990	-	260906
Total	6423164	368684	855380	9975615	14490353	306235	32419431

Regions/Customer Segments (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Australia and New Zealand	-	-	-	6	2	-	8
Eastern Asia	10	-	-	21	13	-	44
Eastern Europe	6	1	3	4	2	-	16
North America	29	4	6	195	51	4	289
Northern Europe	11	7	1	30	5	-	54
South America	1	-	-	-	-	-	1
South-central Asia	-	-	-	3	2	-	5
South-eastern Asia	-	-	1	-	-	-	1
Southern Africa	1	-	-	-	-	-	1
Southern Europe	2	-	-	7	2	-	11
Western Asia	1	-	-	6	-	-	7
Western Europe	16	-	1	30	15	1	63
Total	77	12	12	302	92	5	500

Regions/Customer Segments (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Australia and New Zealand	-	-	-	184916	75990	-	260906
Eastern Asia	774751	-	-	741455	3036260	-	4552466
Eastern Europe	609044	26599	90095	131719	126293	-	983750
North America	2605828	137425	450311	6241526	8709769	218765	18363624
Northern Europe	923152	204660	102800	892594	360637	-	2483843
South America	64630	-	-	-	-	-	64630
South-central Asia	-	-	-	190170	93210	-	283380
South-eastern Asia	-	-	32540	-	-	-	32540
Southern Africa	25440	-	-	-	-	-	25440
Southern Europe	142510	-	-	241848	72418	-	456776
Western Asia	190900	-	-	196088	-	-	386988
Western Europe	1086909	-	179634	1155298	2015777	87470	4525088
Total	6423164	368684	855380	9975614	14490354	306235	32419431

Segment/Application Area (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Aerospace	-	-	-	1	4	-	5
Automotive	1	-	-	1	-	-	2
Benchmarking	-	-	-	-	-	4	4
Biology	-	-	-	-	1	-	1
Consulting	-	-	-	1	-	-	1
Database	-	-	-	5	-	-	5
Defense	-	1	4	8	3	-	16
Digital Media	-	-	-	1	-	-	1
Energy	-	-	-	6	-	-	6
Entertainment	-	-	-	3	-	-	3
Finance	-	-	-	52	1	-	53
Gaming	-	-	-	2	-	-	2
Geophysics	1	-	-	23	-	-	24
Hardware	-	-	-	2	-	-	2
Information Processing Service	-	-	-	15	1	-	16
Information Service	-	-	-	33	-	-	33
Life Science	-	-	-	-	1	-	1
Logistic Services	-	-	-	29	-	-	29
Media	-	-	-	2	-	-	2
Medicine	3	-	-	-	-	-	3
Not Specified	31	11	6	63	40	-	151
Research	41	-	1	6	34	-	82
Retail	-	-	-	7	-	-	7
Semiconductor	-	-	-	15	-	-	15
Service	-	-	1	6	-	-	7
Software	-	-	-	6	-	1	7
Telecomm	-	-	-	8	-	-	8
Weather and Climate Research	-	-	-	-	4	-	4
Weather Forecasting	-	-	-	-	3	-	3

	Academic	Classified	Government	Industry	Research	Vendor	Total
WWW	-	-	-	7	-	-	7
Total	77	12	12	302	92	5	500

Segment/Application Area (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
Aerospace	-	-	-	88550	221150	-	309700
Automotive	27370	-	-	37153	-	-	64523
Benchmarking	-	-	-	-	-	242985	242985
Biology	-	-	-	-	53050	-	53050
Consulting	-	-	-	43001	-	-	43001
Database	-	-	-	138347	-	-	138347
Defense	-	33571	608234	330501	270940	-	1243246
Digital Media	-	-	-	24670	-	-	24670
Energy	-	-	-	211090	-	-	211090
Entertainment	-	-	-	96474	-	-	96474
Finance	-	-	-	1557312	32733	-	1590045
Gaming	-	-	-	49340	-	-	49340
Geophysics	31310	-	-	735847	-	-	767157
Hardware	-	-	-	56255	-	-	56255
Information Processing Service	-	-	-	493220	91290	-	584510
Information Service	-	-	-	1102569	-	-	1102569
Life Science	-	-	-	-	97071	-	97071
Logistic Services	-	-	-	990192	-	-	990192
Media	-	-	-	58805	-	-	58805
Medicine	153850	-	-	-	-	-	153850
Not Specified	3044280	335114	185236	2188203	6901656	-	12654489
Research	3166354	-	32540	267878	6349313	-	9816085
Retail	-	-	-	224383	-	-	224383
Semiconductor	-	-	-	432297	-	-	432297
Service	-	-	29370	187243	-	-	216613
Software	-	-	-	186741	-	63250	249991
Telecomm	-	-	-	235066	-	-	235066
Weather and Climate Research	-	-	-	-	342694	-	342694
Weather Forecasting	-	-	-	-	130457	-	130457

	Academic	Classified	Government	Industry	Research	Vendor	Total
WWW	-	-	-	240478	-	-	240478
Total	6423164	368685	855380	9975615	14490354	306235	32419433

Vendors/Architecture Type (Systems)

	Cluster	Constellations	MPP	Total
ACTION	1	-	-	1
Appro International	6	-	-	6
Bull SA	7	2	-	9
ClusterVision	1	-	-	1
ClusterVision/Dell	1	-	-	1
ClusterVision/IBM	1	-	-	1
Cray Inc.	-	-	21	21
DALCO AG Switzerland	1	-	-	1
Dawning	2	-	-	2
Dell	17	-	-	17
Dell/Sun/IBM	2	-	-	2
DELL\ACS	1	-	-	1
Hewlett-Packard	185	-	-	185
Hitachi	1	-	2	3
IBM	165	-	33	198
Inspur	1	-	-	1
Intel	1	-	-	1
IPE, nVidia Tesla C2050, Tyan	1	-	-	1
Koi Computers	1	-	-	1
Lenovo	1	-	-	1
Linux Networx	1	-	-	1
NEC	1	-	1	2
NEC/Sun	1	-	-	1
NUDT	1	-	-	1
Penguin Computing	1	-	-	1
Pyramid Computer	1	-	-	1
Raytheon-Aspen Systems/Appro	1	-	-	1
SGI	-	-	17	17
SKIF/T-Platforms	1	-	-	1

	Cluster	Constellations	MPP	Total
Sun Microsystems	12	-	-	12
T-Platforms	1	-	-	1
Total	424	2	74	500

Vendors/Architecture Type (Performance in GFlops)

	Cluster	Constellations	MPP	Total
ACTION	38170	-	-	38170
Appro International	458160	-	-	458160
Bull SA	667530	94970	-	762500
ClusterVision	28030	-	-	28030
ClusterVision/Dell	41770	-	-	41770
ClusterVision/IBM	28775	-	-	28775
Cray Inc.	-	-	4786011	4786011
DALCO AG Switzerland	28990	-	-	28990
Dawning	1451600	-	-	1451600
Dell	821720	-	-	821720
Dell/Sun/IBM	149470	-	-	149470
DELL\ACS	38490	-	-	38490
Hewlett-Packard	6618058	-	-	6618058
Hitachi	101741	-	107860	209601
IBM	6594602	-	4296873	10891475
Inspur	34080	-	-	34080
Intel	50370	-	-	50370
IPE, nVidia Tesla C2050, Tyan	207300	-	-	207300
Koi Computers	37420	-	-	37420
Lenovo	102800	-	-	102800
Linux Networx	40610	-	-	40610
NEC	50790	-	122400	173190
NEC/Sun	87010	-	-	87010
NUDT	563100	-	-	563100
Penguin Computing	53050	-	-	53050
Pyramid Computer	32800	-	-	32800
Raytheon-Aspen Systems/Appro	26730	-	-	26730
SGI	-	-	2150944	2150944
SKIF/T-Platforms	47170	-	-	47170

	Cluster	Constellations	MPP	Total
Sun Microsystems	1567260	-	-	1567260
T-Platforms	350100	-	-	350100
Total	20860376	94970	11464088	32419434

Continents/Architecture Type (Systems)

	Cluster	Constellations	MPP	Total
Africa	1	-	-	1
Americas	254	-	36	290
Asia	50	-	7	57
Europe	112	2	30	144
Oceania	7	-	1	8
Total	424	2	74	500

Continents/Architecture Type (Performance in GFlops)

	Cluster	Constellations	MPP	Total
Africa	25440	-	-	25440
Americas	10985689	-	7442566	18428255
Asia	4693724	-	561650	5255374
Europe	4921016	94970	3433473	8449459
Oceania	234506	-	26400	260906
Total	20860375	94970	11464089	32419434

Regions/Architecture Type (Systems)

	Cluster	Constellations	MPP	Total
Australia and New Zealand	7	-	1	8
Eastern Asia	39	-	5	44
Eastern Europe	16	-	-	16
North America	253	-	36	289
Northern Europe	44	-	10	54
South America	1	-	-	1
South-central Asia	4	-	1	5
South-eastern Asia	1	-	-	1
Southern Africa	1	-	-	1
Southern Europe	10	-	1	11
Western Asia	6	-	1	7
Western Europe	42	2	19	63
Total	424	2	74	500

Regions/Architecture Type (Performance in GFlops)

	Cluster	Constellations	MPP	Total
Australia and New Zealand	234506	-	26400	260906
Eastern Asia	4236826	-	315640	4552466
Eastern Europe	983751	-	-	983751
North America	10921059	-	7442566	18363625
Northern Europe	1482203	-	1001640	2483843
South America	64630	-	-	64630
South-central Asia	228270	-	55110	283380
South-eastern Asia	32540	-	-	32540
Southern Africa	25440	-	-	25440
Southern Europe	378096	-	78680	456776
Western Asia	196088	-	190900	386988
Western Europe	2076966	94970	2353153	4525089
Total	20860375	94970	11464089	32419434

Vendors/Continents (Systems)

	Africa	Americas	Asia	Europe	Oceania	Total
ACTION	-	-	-	1	-	1
Appro International	-	5	1	-	-	6
Bull SA	-	-	-	9	-	9
ClusterVision	-	-	-	1	-	1
ClusterVision/Dell	-	-	1	-	-	1
ClusterVision/IBM	-	-	-	1	-	1
Cray Inc.	-	14	-	7	-	21
DALCO AG Switzerland	-	-	-	1	-	1
Dawning	-	-	2	-	-	2
Dell	-	16	-	1	-	17
Dell/Sun/IBM	-	2	-	-	-	2
DELL\ACS	-	-	1	-	-	1
Hewlett-Packard	-	119	10	50	6	185
Hitachi	-	-	3	-	-	3
IBM	-	117	22	58	1	198
Inspur	-	-	1	-	-	1
Intel	-	1	-	-	-	1
IPE, nVidia Tesla C2050, Tyan	-	-	1	-	-	1
Koi Computers	-	1	-	-	-	1
Lenovo	-	-	1	-	-	1
Linux Networx	-	1	-	-	-	1
NEC	-	-	1	1	-	2
NEC/Sun	-	-	1	-	-	1
NUDT	-	-	1	-	-	1
Penguin Computing	-	1	-	-	-	1
Pyramid Computer	-	-	-	1	-	1
Raytheon-Aspen Systems/Appro	-	1	-	-	-	1
SGI	-	7	2	8	-	17
SKIF/T-Platforms	-	-	-	1	-	1

	Africa	Americas	Asia	Europe	Oceania	Total
Sun Microsystems	1	5	2	3	1	12
T-Platforms	-	-	-	1	-	1
Total	1	290	57	144	8	500

Vendors/Continents (Performance in GFlops)

	Africa	Americas	Asia	Europe	Oceania	Total
ACTION	-	-	-	38170	-	38170
Appro International	-	380880	77280	-	-	458160
Bull SA	-	-	-	762500	-	762500
ClusterVision	-	-	-	28030	-	28030
ClusterVision/Dell	-	-	41770	-	-	41770
ClusterVision/IBM	-	-	-	28775	-	28775
Cray Inc.	-	3950118	-	835893	-	4786011
DALCO AG Switzerland	-	-	-	28990	-	28990
Dawning	-	-	1451600	-	-	1451600
Dell	-	759960	-	61760	-	821720
Dell/Sun/IBM	-	149470	-	-	-	149470
DELL\ACS	-	-	38490	-	-	38490
Hewlett-Packard	-	3964528	440888	2027726	184916	6618058
Hitachi	-	-	209601	-	-	209601
IBM	-	6625441	921985	3317648	26400	10891474
Inspur	-	-	34080	-	-	34080
Intel	-	50370	-	-	-	50370
IPE, nVidia Tesla C2050, Tyan	-	-	207300	-	-	207300
Koi Computers	-	37420	-	-	-	37420
Lenovo	-	-	102800	-	-	102800
Linux Networx	-	40610	-	-	-	40610
NEC	-	-	122400	50790	-	173190
NEC/Sun	-	-	87010	-	-	87010
NUDT	-	-	563100	-	-	563100
Penguin Computing	-	53050	-	-	-	53050
Pyramid Computer	-	-	-	32800	-	32800
Raytheon-Aspen Systems/Appro	-	26730	-	-	-	26730
SGI	-	1363408	85380	702156	-	2150944
SKIF/T-Platforms	-	-	-	47170	-	47170

	Africa	Americas	Asia	Europe	Oceania	Total
Sun Microsystems	25440	1026270	329010	136950	49590	1567260
T-Platforms	-	-	-	350100	-	350100
Total	25440	18428255	5255374	8449458	260906	32419433

Vendors/Interconnect (Systems)

	Cray Interconnect	Custom	Fat Tree	Gigabit Ethernet	Infiniband	Mixed	Myrinet	NUMalink	Proprietary	Quadrics	SP Switch	Total
ACTION	-	-	-	-	1	-	-	-	-	-	-	1
Appro International	-	-	-	-	6	-	-	-	-	-	-	6
Bull SA	-	-	-	-	8	-	-	-	-	1	-	9
ClusterVision	-	-	-	-	1	-	-	-	-	-	-	1
ClusterVision/Dell	-	-	-	-	1	-	-	-	-	-	-	1
ClusterVision/IBM	-	-	-	-	1	-	-	-	-	-	-	1
Cray Inc.	1	5	-	-	-	-	-	-	15	-	-	21
DALCO AG Switzerland	-	-	-	-	-	-	-	-	-	1	-	1
Dawning	-	-	-	-	2	-	-	-	-	-	-	2
Dell	-	-	-	2	15	-	-	-	-	-	-	17
Dell/Sun/IBM	-	-	-	-	-	-	2	-	-	-	-	2
DELL\ACS	-	-	-	-	1	-	-	-	-	-	-	1
Hewlett-Packard	-	-	-	143	42	-	-	-	-	-	-	185
Hitachi	-	-	-	-	2	-	1	-	-	-	-	3
IBM	-	3	-	98	79	-	1	-	15	-	2	198
Inspur	-	-	-	-	1	-	-	-	-	-	-	1
Intel	-	-	-	-	1	-	-	-	-	-	-	1
IPE, nVidia Tesla C2050, Tyan	-	-	-	-	1	-	-	-	-	-	-	1
Koi Computers	-	-	-	-	1	-	-	-	-	-	-	1
Lenovo	-	-	-	-	1	-	-	-	-	-	-	1
Linux Networx	-	-	-	-	1	-	-	-	-	-	-	1
NEC	-	-	1	-	1	-	-	-	-	-	-	2
NEC/Sun	-	-	-	-	1	-	-	-	-	-	-	1
NUDT	-	-	-	-	1	-	-	-	-	-	-	1
Penguin Computing	-	-	-	-	1	-	-	-	-	-	-	1
Pyramid Computer	-	-	-	1	-	-	-	-	-	-	-	1
Raytheon-Aspen Systems/Appro	-	-	-	-	1	-	-	-	-	-	-	1

	Cray Interconnect	Custom	Fat Tree	Gigabit Ethernet	Infiniband	Mixed	Myrinet	NUMalink	Proprietary	Quadrics	SP Switch	Total
SGI	-	-	-	-	14	1	-	2	-	-	-	17
SKIF/T-Platforms	-	-	-	-	1	-	-	-	-	-	-	1
Sun Microsystems	-	-	-	-	12	-	-	-	-	-	-	12
T-Platforms	-	-	-	-	1	-	-	-	-	-	-	1
Total	1	8	1	244	205	1	4	2	30	2	2	500

Vendors/Interconnect (Performance in GFlops)

	Cray Interconnect	Custom	Fat Tree	Gigabit Ethernet	Infiniband	Mixed	Myrinet	NUMalink	Proprietary	Quadrics	SP Switch	Total
ACTION	-	-	-	-	38170	-	-	-	-	-	-	38170
Appro International	-	-	-	-	458160	-	-	-	-	-	-	458160
Bull SA	-	-	-	-	709660	-	-	-	-	52840	-	762500
ClusterVision	-	-	-	-	28030	-	-	-	-	-	-	28030
ClusterVision/Dell	-	-	-	-	41770	-	-	-	-	-	-	41770
ClusterVision/IBM	-	-	-	-	28775	-	-	-	-	-	-	28775
Cray Inc.	35200	483800	-	-	-	-	-	-	4267011	-	-	4786011
DALCO AG Switzerland	-	-	-	-	-	-	-	-	-	28990	-	28990
Dawning	-	-	-	-	1451600	-	-	-	-	-	-	1451600
Dell	-	-	-	62610	759110	-	-	-	-	-	-	821720
Dell/Sun/IBM	-	-	-	-	-	-	149470	-	-	-	-	149470
DELL\ACS	-	-	-	-	38490	-	-	-	-	-	-	38490
Hewlett-Packard	-	-	-	4596766	2021291	-	-	-	-	-	-	6618057
Hitachi	-	-	-	-	107860	-	101741	-	-	-	-	209601
IBM	-	133500	-	3133199	4411263	-	63830	-	3048504	-	101179	10891475
Inspur	-	-	-	-	34080	-	-	-	-	-	-	34080
Intel	-	-	-	-	50370	-	-	-	-	-	-	50370
IPE, nVidia Tesla C2050, Tyan	-	-	-	-	207300	-	-	-	-	-	-	207300
Koi Computers	-	-	-	-	37420	-	-	-	-	-	-	37420
Lenovo	-	-	-	-	102800	-	-	-	-	-	-	102800
Linux Networkx	-	-	-	-	40610	-	-	-	-	-	-	40610
NEC	-	-	122400	-	50790	-	-	-	-	-	-	173190
NEC/Sun	-	-	-	-	87010	-	-	-	-	-	-	87010
NUDT	-	-	-	-	563100	-	-	-	-	-	-	563100
Penguin Computing	-	-	-	-	53050	-	-	-	-	-	-	53050
Pyramid Computer	-	-	-	32800	-	-	-	-	-	-	-	32800
Raytheon-Aspen Systems/Appro	-	-	-	-	26730	-	-	-	-	-	-	26730

	Cray Interconnect	Custom	Fat Tree	Gigabit Ethernet	Infiniband	Mixed	Myrinet	NUMalink	Proprietary	Quadrics	SP Switch	Total
SGI	-	-	-	-	1976416	66567	-	107961	-	-	-	2150944
SKIF/T-Platforms	-	-	-	-	47170	-	-	-	-	-	-	47170
Sun Microsystems	-	-	-	-	1567260	-	-	-	-	-	-	1567260
T-Platforms	-	-	-	-	350100	-	-	-	-	-	-	350100
Total	35200	617300	122400	7825375	15831065	66567	315041	107961	7315515	81830	101179	32419433

Vendors/Proc. Family (Systems)

	AMD x86_64	Intel EM64 T	Intel IA- 64	NEC	Power	Sparc	Total
ACTION	-	1	-	-	-	-	1
Appro International	6	-	-	-	-	-	6
Bull SA	-	7	2	-	-	-	9
ClusterVision	1	-	-	-	-	-	1
ClusterVision/Dell	-	1	-	-	-	-	1
ClusterVision/IBM	-	1	-	-	-	-	1
Cray Inc.	21	-	-	-	-	-	21
DALCO AG Switzerland	-	1	-	-	-	-	1
Dawning	1	1	-	-	-	-	2
Dell	1	16	-	-	-	-	17
Dell/Sun/IBM	-	2	-	-	-	-	2
DELL\ACS	-	1	-	-	-	-	1
Hewlett-Packard	9	176	-	-	-	-	185
Hitachi	1	-	-	-	2	-	3
IBM	1	157	-	-	40	-	198
Inspur	-	1	-	-	-	-	1
Intel	-	1	-	-	-	-	1
IPE, nVidia Tesla C2050, Tyan	-	1	-	-	-	-	1
Koi Computers	1	-	-	-	-	-	1
Lenovo	-	1	-	-	-	-	1
Linux Networx	-	1	-	-	-	-	1
NEC	-	1	-	1	-	-	2
NEC/Sun	1	-	-	-	-	-	1
NUDT	-	1	-	-	-	-	1
Penguin Computing	1	-	-	-	-	-	1
Pyramid Computer	-	1	-	-	-	-	1
Raytheon-Aspen Systems/Appro	-	1	-	-	-	-	1

	AMD x86_64	Intel EM64 T	Intel IA- 64	NEC	Power	Sparc	Total
SGI	-	14	3	-	-	-	17
SKIF/T-Platforms	-	1	-	-	-	-	1
Sun Microsystems	2	10	-	-	-	-	12
T-Platforms	-	1	-	-	-	-	1
Total	47	403	5	1	42	2	500

Vendors/Proc. Family (Performance in GFlops)

	AMD x86_64	Intel EM64T	Intel IA-64	NEC	Power	Sparc	Total
ACTION	-	38170	-	-	-	-	38170
Appro International	458160	-	-	-	-	-	458160
Bull SA	-	667530	94970	-	-	-	762500
ClusterVision	28030	-	-	-	-	-	28030
ClusterVision/Dell	-	41770	-	-	-	-	41770
ClusterVision/IBM	-	28775	-	-	-	-	28775
Cray Inc.	4786011	-	-	-	-	-	4786011
DALCO AG Switzerland	-	28990	-	-	-	-	28990
Dawning	180600	1271000	-	-	-	-	1451600
Dell	61760	759960	-	-	-	-	821720
Dell/Sun/IBM	-	149470	-	-	-	-	149470
DELL\ACS	-	38490	-	-	-	-	38490
Hewlett-Packard	363022	6255036	-	-	-	-	6618058
Hitachi	101741	-	-	-	107860	-	209601
IBM	45730	5119792	-	-	5725953	-	10891475
Inspur	-	34080	-	-	-	-	34080
Intel	-	50370	-	-	-	-	50370
IPE, nVidia Tesla C2050, Tyan	-	207300	-	-	-	-	207300
Koi Computers	37420	-	-	-	-	-	37420
Lenovo	-	102800	-	-	-	-	102800
Linux Networx	-	40610	-	-	-	-	40610
NEC	-	50790	-	122400	-	-	173190
NEC/Sun	87010	-	-	-	-	-	87010
NUDT	-	563100	-	-	-	-	563100
Penguin Computing	53050	-	-	-	-	-	53050
Pyramid Computer	-	32800	-	-	-	-	32800
Raytheon-Aspen Systems/Appro	-	26730	-	-	-	-	26730
SGI	-	1976416	174528	-	-	-	2150944

	AMD x86_64	Intel EM64T	Intel IA-64	NEC	Power	Sparc	Total
SKIF/T-Platforms	-	47170	-	-	-	-	47170
Sun Microsystems	485080	1082180	-	-	-	-	1567260
T-Platforms	-	350100	-	-	-	-	350100
Total	6738124	19316489	269498	122400	5833813	139110	32419434

Segment/Proc. Family (Systems)

	Academic	Classified	Government	Industry	Research	Vendor	Total
AMD x86_64	19	-	1	7	18	2	47
Intel EM64T	45	12	11	294	40	1	403
Intel IA-64	1	-	-	-	4	-	5
NEC	-	-	-	-	1	-	1
Power	11	-	-	1	28	2	42
Sparc	1	-	-	-	1	-	2
Total	77	12	12	302	92	5	500

Segment/Proc. Family (Performance in GFlops)

	Academic	Classified	Government	Industry	Research	Vendor	Total
AMD x86_64	2639664	-	165600	213758	3611311	107790	6738123
Intel EM64T	2904810	368684	689780	9666407	5599338	87470	19316489
Intel IA-64	56520	-	-	-	212978	-	269498
NEC	-	-	-	-	122400	-	122400
Power	793661	-	-	95450	4833727	110975	5833813
Sparc	28510	-	-	-	110600	-	139110
Total	6423165	368684	855380	9975615	14490354	306235	32419433