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TOP500 Sublist for November 2001

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18th Edition of TOP500 List of World's Fastest Supercomputers Released

MANNHEIM, GERMANY; KNOXVILLE, TENN.; & BERKELEY, CALIF. – In what has become a much-anticipated event in the world of high-performance computing, the 18th edition of the “TOP500” list of the world’s fastest supercomputers was released today (November 9, 2001).

The latest edition of the twice-yearly ranking finds IBM as the leader in the field, with 32 percent in terms of installed systems and 37 percent in terms of total performance of all the installed systems. In a surprise move Hewlett-Packard captured the second place with 30 percent of the systems. Most of these systems are smaller in size and as a consequence HP’s share of installed performance is smaller with 15 percent. This is still enough for second place in this category. SGI, Cray and Sun follow in the number of TOP500 systems with 41 (8 percent), 39 (8 percent), and 31 (6 percent) respectively. In the category of installed performance Cray Inc. keeps the third position with 11 percent ahead of SGI (8 percent) and Compaq (8 percent).

The list is compiled by Hans Meuer of the University of Mannheim, Germany, Erich Strohmaier and Horst Simon of the U.S. Department of Energy’s National Energy Research Scientific Computing Center, and Jack Dongarra of the University of Tennessee. The list was released today and will be analyzed at the SC2001 Conference in Denver, CO, November 10 –16, 2001.

Compaq made its debut at the very top of the list with two new systems in the TOP10. Six months ago the most powerful Compaq system was only listed at position 43. Eight of the TOP10 systems are installed in the United States, which demonstrates the leadership of the U.S. in the usage of High Performance Computing.

The IBM ASCI White system at Lawrence Livermore National Laboratory is still the number one supercomputer in the world, with a performance of 7.2 Tflop/s (trillions of calculations per second) on the Linpack benchmark. The number two spot is now taken by the new Compaq AlphaServer SC system at the Pittsburgh Supercomputing Center, ahead of the IBM SP system at the Department of Energy’s National Energy Research Scientific Computing Center (NERSC), an unclassified supercomputing center at Lawrence Berkeley National Laboratory (LBNL) in Berkeley, Calif. At number six is another new Compaq system at DOE’s Los Alamos National Laboratory.

The list now indicates 16 systems exceeding the 1 Tflop/s level using the Linpack benchmark, eight of these systems are from IBM. The TOP500 already contains 30 systems exceeding 1 Tflop/s level for peak performance. The two highest ranked clusters are this time the self-made CPlant at Sandia National Labs and the Titan Itanium cluster from IBM installed at the NCSA, at numbers 29 and 34 respectively. The number of clusters build with small SMPs as building blocks steadily increases in the TOP500. There are now 43 such systems listed. The dominant architecture with 50 percent of systems are still the massively parallel systems (MPP) followed by clusters of large SMP systems, the so called constellations (29 percent).

The list exhibits unbroken growth at all ranges of performance. The total combined performance of all 500 computers on the list is 134.4 Tflops/ compared to 108.8 Tflop/s six month ago and 88.1 Tflop/s one year ago. The “slowest” system on the

newest listing is now 94.3 Gflop/s (billions of calculations per second), compared to 67.8 Gflop/s 6 months ago and 55.1 Gflop/s in November2000.

The new TOP500 list, as well as the former lists, can be found on the Web at <http://www.top500.org/>. In a **BOF Session at SC2001, Wednesday, November 14th, 5:30 - 7:00 pm, room A107**, the authors will give detailed insight in the new list. TOP500 Certificates for all entries in the 18th list may be picked up in Denver at the SC Exhibition, booth #520 (Nov 13-15).

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All changes are from June 2001 to November 2001:

Highlights from the Top 10:

- ASCI White is again #1 with unchanged performance of 7.2 TF/s on the Linpack
- Three systems are new in the TOP10:
 - at #2 with 4 TF/s a Compaq AlphaServer installed at Pittsburgh Supercomputing Center
 - at #6 with 2 TF/s a second Compaq AlphaServer at the Los Alamos National Lab
 - at #10 with 1.3 TF/s a IBM SP Power3 system installed in Germany at the National Weather forecast center (Deutscher Wetterdienst) in Offenbach
- Lawrence Livermore National Lab has installed an additional 1.1 TF/s IBM Power3 system, which is listed at #15
- This brings the number of systems exceeding the 1 TFlop/s mark on the Linpack up to 16
- 30 systems have peak performance above 1 TFlop/s including two self-made clusters:
 - CPlant at Sandia at #29 and
 - Titan at NCSA at #34
- 1.29 Tflop/s is the entry point for the Top 10
- 5 of the TOP10 systems are from IBM, 2 from Compaq, and one from Intel, Hitachi, and SGI.
- 8 of the TOP10 systems are installed in the US, and one in Japan and Germany each.

General highlights from the Top 500:

- The new entry level of 94.3 GF/s would have been enough to be listed on position 295 in the last TOP500 just 6 months ago
- Total accumulated performance is 134.4 TFlop/s compared to 108.8 TFlop/s 6 months ago
- Entry level is now 94.3 GF/s compared to 67.8 GF/s 6 months ago
- In June 1993 no system exceeded this limit. From the Nov 1993 list only the "Numerical Wind Tunnel" at NAL in Japan exceeded this limit. This system is actually still on the list with improved hardware and performance at position 130.
- The entry point for the top100 moved from 241 GF/s to 300 GF/s.
- The first Itanium cluster is at the NCSA at #39 with 678 GF/s.
- The first Windows2000 cluster is at the Cornell Theory Center at #320 with 121 GF/s.

Trends over time:

- The US keeps its prime position as supercomputer user and producer with only little changes in geographical distribution
 - The number of machines used in industry increased again to 261 from 236.
 - The number of machines used in research stayed stable at 112 (from 118).
 - The number of machines used in academic declined slightly to 83 from 92.
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- IBM is again leading the TOP500. It is still leading the list with respect to the number of systems installed (32% down from 40%) and the installed performance with a stable share of 37%.

- Hewlett-Packard made a big jump forward and has 153 systems (30%) in this list compared to only 41 in June 2001. All these systems are smaller in size. The first one appears at position 148. As a consequence the total HP share of installed Linpack performance is comparably smaller with 15% but still sufficient for position 2 in this category.
- SGI, Cray and Sun follow in the number of systems with 41 (8%), 39 (8%), and 31 (6%) respectively.
- With respect to installed performance Cray Inc. keeps the third position with 11% ahead of SGI (8%) and Compaq (8%).

TOP500 Sublist for November 2001

TOP500 Team

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



Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
1	Lawrence Livermore National Laboratory	IBM	ASCI White, SP Power3 375 MHz	Research	United States	2000	7226.00	8192	12288.00	518096	179000	SP Switch
2	Pittsburgh Supercomputing Center	Hewlett-Packard	AlphaServer SC45, 1 GHz	Academic	United States	2001	4059.00	3024	6048.00	525000	105000	Quadrics
3	NERSC/LBNL	IBM	SP Power3 375 MHz 16 way	Research	United States	2001	3052.00	3328	4992.00	371712	102400	SP Switch
4	Sandia National Laboratories	Intel	ASCI Red	Research	United States	1999	2379.00	9632	3207.00	362880	75400	Proprietary
5	Lawrence Livermore National Laboratory	IBM	ASCI Blue-Pacific SST, IBM SP 604e	Research	United States	1999	2144.00	5808	3856.50	431344		SP Switch
6	Los Alamos National Laboratory	Hewlett-Packard	AlphaServer SC45, 1 GHz	Research	United States	2001	2096.00	1536	3072.00	390000	71000	Quadrics
7	University of Tokyo	Hitachi	SR8000/MPP	Academic	Japan	2001	1709.10	1152	2074.00	141000	16000	Crossbar
8	Los Alamos National Laboratory	SGI	ASCI Blue Mountain	Research	United States	1998	1608.00	6144	3072.00	374400	138000	HIPPI
9	Naval Oceanographic Office (NAVOCEANO)	IBM	SP Power3 375 MHz	Research	United States	2000	1417.00	1336	2004.00	374000		SP Switch
10	Deutscher Wetterdienst	IBM	SP Power3 375 MHz 16 way	Research	Germany	2001	1293.00	1280	1920.00			SP Switch
11	NCAR (National Center for Atmospheric Research)	IBM	SP Power3 375 MHz 16 way	Research	United States	2001	1272.00	1260	1890.00			SP Switch
12	Osaka University	NEC	SX-5/128M8 3.2ns	Academic	Japan	2001	1192.00	128	1280.00	129536	10240	Crossbar
13	National Centers for Environmental Prediction	IBM	SP Power3 375 MHz	Research	United States	2000	1179.00	1104	1656.00			SP Switch
14	National Centers for Environmental Prediction	IBM	SP Power3 375 MHz	Research	United States	2001	1179.00	1104	1656.00			SP Switch
15	Government	Cray Inc.	T3E1200	Classified	United States	2001	1127.00	1900	2280.00	148800	28272	Cray Interconnect
16	Lawrence Livermore National Laboratory	IBM	SP Power3 375 MHz 16 way	Research	United States	2001	1100.00	1088	1632.00			SP Switch
17	Leibniz Rechenzentrum	Hitachi	SR8000-F1/112	Academic	Germany	2000	1035.00	112	1344.00	120000	15160	Crossbar
18	UCSD/San Diego Supercomputer Center	IBM	SP Power3 375 MHz 8 way	Academic	United States	2000	929.00	1152	1728.00	220000	62000	SP Switch
19	High Energy Accelerator Research Organization /KEK	Hitachi	SR8000-F1/100	Research	Japan	2000	917.00	100	1200.00	115000	15000	Crossbar
20	US Army HPC Research Center at NCS	Cray Inc.	T3E1200	Research	United States	2000	892.00	1084	1300.80			Cray Interconnect
21	ECMWF	Fujitsu	VPP5000/100	Research	United Kingdom	2000	886.00	100	960.00	195600	18000	Crossbar
22	University of Tokyo	Hitachi	SR8000/128	Academic	Japan	1999	873.00	128	1024.00	120000	16000	Crossbar
23	Maui High-Performance Computing Center (MHPCC)	IBM	SP Power3 375 MHz 16 way	Research	United States	2001	837.00	812	1218.00			SP Switch
24	Government	Cray Inc.	T3E900	Classified	United States	1997	815.00	1324	1191.60	134400	26880	Cray Interconnect
25	Charles Schwab	IBM	SP Power3 375 MHz	Industry	United States	2000	795.00	768	1152.00			SP Switch
26	Institute for Materials Research/Tohoku University	Hitachi	SR8000-G1/64	Academic	Japan	2001	790.70	64	921.60	110000	8504	Crossbar
27	North Carolina Supercomputing Center (NCSC)	IBM	SP Power3 375 MHz	Academic	United States	2000	741.00	720	1080.00			SP Switch
28	University of Tsukuba	Fujitsu	VPP5000/80	Research	Japan	2001	730.00	80	768.00	273600	15360	Crossbar
29	Oak Ridge National Laboratory	IBM	SP Power3 375 MHz	Research	United States	2000	723.00	704	1056.00	187000	37500	SP Switch
30	Sandia National Laboratories	Self-made	CPlant/Ross Cluster	Research	United States	2001	706.70	1369	1275.90	162000		Myrinet
31	Australian Partnership for Advanced Computing (APAC)	Hewlett-Packard	AlphaServer SC45, 1 GHz	Academic	Australia	2001	706.00	480	960.00	205000	31400	Quadrics
32	Japan Meteorological Agency	Hitachi	SR8000-E1/80	Research	Japan	2000	691.30	80	768.00	120000	9408	Crossbar
33	Los Alamos National Laboratory/ACL	SGI	ORIGIN 2000 250 MHz	Research	United States	1999	690.90	2048	1024.00	229248	80640	Crossbar
34	NCSA	IBM	Titan Cluster Itanium 800 MHz	Academic	United States	2001	677.90	320	1024.00	183000	32000	Fast Ethernet
35	Naval Oceanographic Office (NAVOCEANO)	Cray Inc.	T3E900	Research	United States	1999	675.00	1084	975.60			Cray Interconnect
36	CSAR at the University of Manchester	Cray Inc.	T3E1200	Academic	United Kingdom	2000	671.00	812	974.40			Cray Interconnect
37	Deutscher Wetterdienst	Cray Inc.	T3E1200	Research	Germany	1999	671.00	812	974.40			Cray Interconnect
38	ERDC MSRC	Cray Inc.	T3E1200	Research	United States	2001	671.00	812	974.40			Cray Interconnect
39	CBRC - Tsukuba Advanced Computing Center - TACC/AIST	NEC	Magi Cluster PIII 933 MHz	Research	Japan	2001	654.00	1040	970.00	217600	29000	Myrinet
40	Real World Computing (RWCP)/Tsukuba Research Center	Self-made	S-Core IIIe/PIII 933 MHz	Research	Japan	2001	618.30	1024	955.40	146000	23000	Myrinet
41	NCSA	IBM	Netfinity Cluster PIII 1 GHz - Myrinet	Academic	United States	2001	594.00	1024	1024.00			Myrinet
42	University of Tokyo/Institute for Solid State Physics	Hitachi	SR8000-F1/60	Academic	Japan	2000	577.00	60	720.00	89000	10000	Crossbar
43	Kyushu University	Fujitsu	VPP5000/64	Academic	Japan	2000	563.00	64	614.40	235776	12288	Crossbar

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
44	Wright-Patterson Air Force Base/DoD ASC	IBM	SP Power3 375 MHz	Research	United States	2000	553.00	528	792.00			SP Switch
45	United Kingdom Meteorological Office	Cray Inc.	T3E900	Research	United Kingdom	1997	552.00	876	788.40			Cray Interconnect
46	State Farm	IBM	SP Power3 375 MHz	Industry	United States	2001	546.00	520	780.00			SP Switch
47	Petroleum Company (G)	IBM	SP Power3 375 MHz 16 way	Industry	Saudia Arabia	2001	546.00	512	768.00	148000	33000	SP Switch
48	US Army Research Laboratory (ARL)	IBM	SP Power3 375 MHz 16 way	Research	United States	2000	546.00	512	768.00	148000	33000	SP Switch
49	Pharmaceutical Company	IBM	SP Power3 375 MHz	Industry	Germany	2001	536.00	510	765.00			SP Switch
50	Indiana University	IBM	SP Power3 375 MHz	Academic	United States	2001	534.00	508	762.00			SP Switch
51	United Kingdom Meteorological Office	Cray Inc.	T3E1200	Research	United Kingdom	1999	526.00	636	763.20			Cray Interconnect
52	NASA/Goddard Space Flight Center	Cray Inc.	T3E	Research	United States	2000	525.00	1356	813.60			Cray Interconnect
53	State Farm	IBM	SP Power3 375 MHz	Industry	United States	2001	512.00	488	732.00			SP Switch
54	Hewlett-Packard	Hewlett-Packard	AlphaServer SC ES40/EV67	Vendor	United States	2000	507.60	512	682.66	200000	30000	Quadrics
55	Lawrence Livermore National Laboratory	Hewlett-Packard	AlphaServer SC ES40/EV67	Research	United States	2000	507.60	512	682.66	200000	30000	Quadrics
56	Centre Informatique National (CINES)	IBM	SP Power3 375 MHz	Academic	France	2001	494.00	472	708.00			SP Switch
57	Nagoya University	Fujitsu	VPP5000/56	Academic	Japan	1999	492.00	56	537.60	228480	12768	Crossbar
58	Kyoto University	Fujitsu	VPP800/63	Academic	Japan	1999	482.00	63	504.00	234360	12852	Crossbar
59	Lawrence Livermore National Laboratory	IBM	SP Power3 375 MHz 16 way	Research	United States	2001	480.00	448	672.00	138000	31000	SP Switch
60	Lawrence Livermore National Laboratory	IBM	ASCI Blue-Pacific CTR, IBM SP 604e	Research	United States	1998	468.20	1344	892.40	205000	65000	SP Switch
61	Tsukuba Advanced Computing Center - TACC/AIST	Hitachi	SR8000/64	Research	Japan	1999	449.00	64	512.00	92000	9160	Crossbar
62	Cray Inc.	Cray Inc.	T3E1200	Vendor	United States	1998	447.00	540	648.00	181440	17280	Cray Interconnect
63	Forschungszentrum Juelich (FZJ)	Cray Inc.	T3E1200	Research	Germany	1999	447.00	540	648.00	181440	17280	Cray Interconnect
64	Government	Cray Inc.	T3E1200	Classified	United States	1999	447.00	540	648.00	181440	17280	Cray Interconnect
65	Government	Cray Inc.	T3E1200	Classified	United States	1998	447.00	540	648.00	181440	17280	Cray Interconnect
66	Government	Cray Inc.	T3E1200	Classified	United States	2001	447.00	540	648.00	181440	17280	Cray Interconnect
67	NERSC/LBNL	Cray Inc.	T3E900	Research	United States	1997	444.00	692	622.80			Cray Interconnect
68	Forecast Systems Laboratory - NOAA	HPTi	ACL-580	Research	United States	2001	442.70	580	841.00	170000		Myrinet
69	Financial Institution	IBM	SP Power3 375 MHz	Industry	Hong Kong	2000	441.00	424	636.00			SP Switch
70	Defense	Sun Microsystems	HPC 4500 400 MHz Cluster	Classified	Sweden	1999	420.44	896	716.80	144000	43200	N/A
71	Service Provider	Sun Microsystems	HPC 4500 400 MHz Cluster	Industry	United States	2000	420.44	896	716.80	144000	43200	N/A
72	Service Provider	Sun Microsystems	HPC 4500 400 MHz Cluster	Industry	United States	2000	420.44	896	716.80	144000	43200	N/A
73	Sun	Sun Microsystems	HPC 4500 400 MHz Cluster	Vendor	United States	2000	420.44	896	716.80	144000	43200	N/A
74	Fleet Numerical Meteorology and Oceanography Center	SGI	ORIGIN 3000 500 MHz	Research	United States	2001	405.60	512	512.00	230000		NUMAflex
75	Japan Atomic Energy Research Institute	SGI	ORIGIN 3000 500 MHz	Research	Japan	2001	405.60	512	512.00	230000		NUMAflex
76	SARA (Stichting Academisch Rekencentrum)	SGI	ORIGIN 3000 500 MHz	Academic	Netherlands	2000	405.60	512	512.00	230000		NUMAflex
77	SARA (Stichting Academisch Rekencentrum)	SGI	ORIGIN 3000 500 MHz	Academic	Netherlands	2000	405.60	512	512.00	230000		NUMAflex
78	IBM Thomas J. Watson Research Center	IBM	SP Power3 375 MHz	Research	United States	2001	371.00	360	540.00			SP Switch
79	Center for Computational Physics, Univ of Tsukuba	Hitachi/Tsukuba	CP-PACS/2048	Academic	Japan	1996	368.20	2048	614.40	103680	30720	Crossbar
80	Max-Planck-Gesellschaft MPI/IPP	Cray Inc.	T3E	Research	Germany	1997	355.00	812	487.20			Cray Interconnect
81	ERDC MSRC	Hewlett-Packard	AlphaServer SC40, 833 MHz	Research	United States	2001	344.10	256	426.50	142000	17000	Quadrics
82	Japan Marine Science and Technology	Hewlett-Packard	AlphaServer SC40, 833 MHz	Research	Japan	2001	344.10	256	426.50	142000	17000	Quadrics
83	Los Alamos National Laboratory	Hewlett-Packard	AlphaServer SC40, 833 MHz	Research	United States	2001	344.10	256	426.50	142000	17000	Quadrics
84	HWW/Universitaet Stuttgart	Cray Inc.	T3E900	Industry	Germany	1996	341.00	540	486.00			Cray Interconnect
85	Pittsburgh Supercomputing Center	Cray Inc.	T3E900	Academic	United States	1998	341.00	540	486.00			Cray Interconnect
86	GSIC Center, Tokyo Institute of Technology	Self-made	Presto III Athlon 1.2 GHz	Academic	Japan	2001	331.70	256	614.40	90720		Fast Ethernet

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
87	University of Minnesota/Supercomputing Institute	IBM	SP Power3 375 MHz	Academic	United States	2000	330.00	322	483.00			SP Switch
88	Maui High-Performance Computing Center (MHPCC)	IBM	SP Power3 375 MHz	Research	United States	2000	327.00	320	480.00			SP Switch
89	Institute of Physical and Chemical Res. (RIKEN)	Fujitsu	VPP700/160E	Research	Japan	1999	319.00	160	384.00	168000	24000	Crossbar
90	CSAR at the University of Manchester	SGI	ORIGIN 3000 400 MHz	Academic	United Kingdom	2001	315.50	512	409.60	130560	108800	Crossbar
91	ERDC MSRC	SGI	ORIGIN 3000 400 MHz	Research	United States	2001	315.50	512	409.60	130560	108800	Crossbar
92	NASA/Ames Research Center/NAS	SGI	ORIGIN 3000 400 MHz	Research	United States	2001	315.50	512	409.60	130560	108800	Crossbar
93	NASA/Ames Research Center/NAS	SGI	ORIGIN 3000 400 MHz	Research	United States	2001	315.50	512	409.60	130560	108800	Crossbar
94	NASA/Goddard Space Flight Center	SGI	ORIGIN 3000 400 MHz	Research	United States	2001	315.50	512	409.60	130560	108800	Crossbar
95	Silicon Graphics	SGI	ORIGIN 3000 400 MHz	Vendor	United States	2001	315.50	512	409.60	130560	108800	Crossbar
96	US Army Research Laboratory (ARL)	SGI	ORIGIN 3000 400 MHz	Research	United States	2000	315.50	512	409.60	130560	108800	Crossbar
97	ERDC MSRC	IBM	SP Power3 222 MHz	Research	United States	2000	307.60	512	454.60	148000	35000	SP Switch
98	CNRS/IDRIS	NEC	SX-5/40M3	Academic	France	2000	303.00	40	320.00			Crossbar
99	EDINFOR	IBM	SP Power3 375 MHz	Industry	Portugal	2001	301.00	296	444.00			SP Switch
100	NASA/Ames Research Center/NAS	SGI	ORIGIN 2000 400 MHz	Research	United States	2000	300.20	512	409.60	130560	21216	Crossbar
101	Central Research Institute of Electric Power Industry/CRIEPI	Fujitsu	VPP5000/32	Research	Japan	2000	296.10	32	307.20	170880	7680	Crossbar
102	PGS	IBM	SP Power3 375 MHz	Industry	United States	2001	295.00	290	435.00			SP Switch
103	Sandia National Laboratories	Dell	Precision 530 Cluster XEON 1.7 GHz	Research	United States	2001	288.90	256	435.20	100000	15500	Fast Ethernet
104	US Army Space and Missile Defense Command	IBM	SP Power3 375 MHz	Research	United States	2000	288.00	284	426.00			SP Switch
105	Meteo-France	Fujitsu	VPP5000/31	Research	France	1999	286.00	31	297.60			Crossbar
106	Maui High-Performance Computing Center (MHPCC)	IBM	Netfinity Cluster PIII 933 MHz - Myrinet	Research	United States	2001	285.00	520	485.16			Myrinet
107	CSC (Center for Scientific Computing)	Cray Inc.	T3E750	Academic	Finland	2000	284.00	540	405.00			Cray Interconnect
108	IBM	IBM	SP Power3 375 MHz 16 way	Vendor	United States	2000	278.00	256	384.00	107000	21200	SP Switch
109	Institute for Molecular Science	Fujitsu	VPP5000/30	Research	Japan	2000	277.00	30	288.00			Crossbar
110	NCSA	SGI	ORIGIN 2000 195/250 MHz	Academic	United States	1998	264.90	1024	327.68			Crossbar
111	Oak Ridge National Laboratory	Hewlett-Packard	AlphaServer SC ES40/EV67	Research	United States	2000	263.60	256	341.33	106000	20000	Quadrics
112	Pittsburgh Supercomputing Center	Hewlett-Packard	AlphaServer SC ES40/EV67	Academic	United States	2000	263.60	256	341.33	106000	20000	Quadrics
113	DeTeCSM	IBM	SP Power3 375 MHz	Industry	Germany	2001	262.00	260	390.00			SP Switch
114	Centre Informatique National (CINES)	SGI	ORIGIN 3000 500 MHz	Academic	France	2001	259.00	320	320.00			NUMAflex
115	Purdue University	IBM	SP Power3 375 MHz	Academic	United States	2000	257.00	256	384.00	148000	24000	SP Switch
116	Meteorological Research Institute/JMA	Hitachi	SR8000/36	Research	Japan	1999	255.00	36	288.00	69000	5968	Crossbar
117	ZIB/Konrad Zuse-Zentrum fuer Informationstechnik	Cray Inc.	T3E900	Academic	Germany	1999	253.00	404	363.60			Cray Interconnect
118	Chemical Company	IBM	SP PC604e 332 MHz	Industry	Germany	2000	250.00	716	475.40			SP Switch
119	Tohoku University	NEC	SX-4/128H4	Academic	Japan	1997	244.00	128	256.00			Crossbar
120	Tohoku University, Institute of Fluid Science	SGI	ORIGIN 2000 300 MHz	Academic	Japan	2000	241.40	640	384.00	147456	33984	Crossbar
121	NASA/Ames Research Center/NAS	SGI	ORIGIN 2000 300 MHz	Research	United States	1999	241.40	512	307.20	147456	33984	Crossbar
122	Bureau of Meteorology / CSIRO HPPCC	NEC	SX-5/32M2	Research	Australia	2000	241.40	32	256.00	55296		Crossbar
123	Meteorological Service of Canada (MSC)	NEC	SX-5/32M2	Research	Canada	1999	241.40	32	256.00	55296		Crossbar
124	National Research Institute for Metals	NEC	SX-5/32H2	Research	Japan	2000	241.40	32	256.00	55296		Crossbar
125	University of New Mexico	IBM	LosLobos	Academic	United States	2000	237.00	512	375.30	150000	20000	Fast Ethernet
126	Government	Cray Inc.	T3E1200	Classified	United States	1999	235.00	284	340.80			Cray Interconnect
127	Cray Inc.	Cray Inc.	T3E	Vendor	United States	1997	234.00	540	324.00	86400	14400	Cray Interconnect
128	Forschungszentrum Juelich (FZJ)	Cray Inc.	T3E	Research	Germany	1996	234.00	540	324.00	86400	14400	Cray Interconnect
129	Taiwan Central Weather Bureau & CAA	Fujitsu	VPP5000/25	Research	Taiwan	2001	232.00	25	240.00			Crossbar

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
130	National Aerospace Laboratory of Japan	Fujitsu	Numerical Wind Tunnel	Research	Japan	1996	229.00	167	281.26	66132	18018	Crossbar
131	Hokkaido University	Hitachi	SR8000/32	Academic	Japan	2000	229.00	32	256.00	65000	5632	Crossbar
132	Ohio Supercomputer Center	SGI	SGI 750 Cluster Itanium 733 MHz	Academic	United States	2001	226.00	128	375.29	157680		Fast Ethernet
133	Gesellschaft fuer wissenschaftliche Datenverarbeitung	IBM	SP Power3 375 MHz	Academic	Germany	2001	226.00	224	336.00			SP Switch
134	Manufacturing Company	IBM	SP Power3 375 MHz	Industry	United States	2001	226.00	224	336.00			SP Switch
135	Petroleum Company (G)	IBM	SP Power3 375 MHz 16 way	Industry	Saudia Arabia	2001	226.00	208	312.00			SP Switch
136	CINECA	Cray Inc.	T3E1200	Academic	Italy	1999	221.77	268	321.60			Cray Interconnect
137	Technische Universitaet Chemnitz	Self-made	CLIC PIII 800 MHz	Academic	Germany	2000	221.60	530	424.00	176640	28272	Fast Ethernet
138	University of Edinburgh	Cray Inc.	T3E900	Academic	United Kingdom	1997	218.00	348	313.20			Cray Interconnect
139	PSA Peugeot Citroen	IBM	SP Power3 375 MHz	Industry	France	2001	214.00	212	318.00			SP Switch
140	ECMWF	Fujitsu	VPP700/116	Research	United Kingdom	1997	213.00	116	255.20	111360	18560	Crossbar
141	Chemical Company	IBM	SP Power3 375 MHz	Industry	Germany	2000	212.00	210	315.00			SP Switch
142	Korea Meteorological Administration	NEC	SX-5/28M2	Research	Korea, South	2000	212.00	28	224.00			Crossbar
143	Commissariat a l'Energie Atomique (CEA)	Hewlett-Packard	AlphaServer SC ES40/EV67	Research	France	1999	211.00	232	309.33	120000		Quadrics
144	Sobeys Canada	IBM	SP PC604e 332 MHz	Industry	Canada	2000	210.20	512	339.90	100000	20872	SP Switch
145	Japan Atomic Energy Research Institute	SGI	ORIGIN 3000 500 MHz	Research	Japan	2001	210.20	256	256.00	163000		NUMAflex
146	Japan Atomic Energy Research/Tokai Research Establishment	Hitachi	SR8000-F1/20	Research	Japan	2001	206.00	20	240.00	68000	4440	Crossbar
147	University of Alaska - ARSC	IBM	SP Power3 375 MHz	Academic	United States	2001	203.00	200	300.00			SP Switch
148	Agilent	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	196.70	128	281.60			Myrinet
149	Agilent	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	196.70	128	281.60			Myrinet
150	Agricultural Bank of China (ABC) Shandong	Hewlett-Packard	SuperDome/HyperPlex	Industry	China	2001	196.70	128	281.60			Myrinet
151	Amdocs	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	196.70	128	281.60			Myrinet
152	Amdocs	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	196.70	128	281.60			Myrinet
153	Brasil Telecom	Hewlett-Packard	SuperDome/HyperPlex	Industry	Brazil	2001	196.70	128	281.60			Myrinet
154	Braun GmbH	Hewlett-Packard	SuperDome/HyperPlex	Industry	Germany	2001	196.70	128	281.60			Myrinet
155	NewSky	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	196.70	128	281.60			Myrinet
156	One2One	Hewlett-Packard	SuperDome/HyperPlex	Industry	United Kingdom	2001	196.70	128	281.60			Myrinet
157	OverWrite	Hewlett-Packard	SuperDome/HyperPlex	Industry	United Kingdom	2001	196.70	128	281.60			Myrinet
158	Oy Saimaa Lines LTD	Hewlett-Packard	SuperDome/HyperPlex	Industry	Finland	2001	196.70	128	281.60			Myrinet
159	POSDATA	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	196.70	128	281.60			Myrinet
160	Q Application Varwest	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	196.70	128	281.60			Myrinet
161	Telecommunications Equipment	Hewlett-Packard	SuperDome/HyperPlex	Industry	Finland	2001	196.70	128	281.60			Myrinet
162	Telkom LTD	Hewlett-Packard	SuperDome/HyperPlex	Industry	United Kingdom	2001	196.70	128	281.60			Myrinet
163	Titan Secure	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	196.70	128	281.60			Myrinet
164	Verizon	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	196.70	128	281.60			Myrinet
165	Vodafone	Hewlett-Packard	SuperDome/HyperPlex	Industry	United Kingdom	2001	196.70	128	281.60			Myrinet
166	Wirth Adolf GmbH	Hewlett-Packard	SuperDome/HyperPlex	Industry	Germany	2001	196.70	128	281.60			Myrinet
167	Amazon	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	196.20	128	281.60			Myrinet
168	Kone	Hewlett-Packard	SuperDome/HyperPlex	Industry	Belgium	2001	196.20	128	281.60			Myrinet
169	Brasil Telecom	Hewlett-Packard	SuperDome/HyperPlex	Industry	Brazil	2001	195.80	128	281.60			Myrinet
170	Cisco	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	195.80	128	281.60			Myrinet
171	Cisco	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	195.80	128	281.60			Myrinet
172	France Telecom	Hewlett-Packard	SuperDome/HyperPlex	Industry	France	2001	195.80	128	281.60			Myrinet

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
173	Government	Hewlett-Packard	SuperDome/HyperPlex	Classified	United Kingdom	2001	195.80	128	281.60			Myrinet
174	Government	Hewlett-Packard	SuperDome/HyperPlex	Classified	United Kingdom	2001	195.80	128	281.60			Myrinet
175	Government	Hewlett-Packard	SuperDome/HyperPlex	Classified	United Kingdom	2001	195.80	128	281.60			Myrinet
176	Government	Hewlett-Packard	SuperDome/HyperPlex	Classified	United Kingdom	2001	195.80	128	281.60			Myrinet
177	LG-EDS Systems	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	195.80	128	281.60			Myrinet
178	Raytheon	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	195.80	128	281.60			Myrinet
179	Supreme Court of Korea	Hewlett-Packard	SuperDome/HyperPlex	Government	Korea, South	2001	195.80	128	281.60			Myrinet
180	Paine Webber	IBM	SP Power3 375 MHz	Industry	United States	2001	195.00	192	288.00			SP Switch
181	PIK	IBM	SP Power3 375 MHz 4/16 way	Research	Germany	2000	190.20	200	300.00			SP Switch
182	American Airlines	Hewlett-Packard	V2500/HyperPlex	Industry	United States	1999	189.30	320	563.20			Myrinet
183	SHARCNET - University of Western Ontario	Hewlett-Packard	Greatwhite ES40 833 MHz Quadrics	Academic	Canada	2001	185.30	144	239.90	128000		Quadrics
184	POSDATA	Self-made	Netfinity Cluster PIII 1 GHz - Myrinet	Industry	Korea, South	2001	184.40	320	320.00	120000	15000	Myrinet
185	NEC Fuchu Plant	NEC	SX-5/24M2	Vendor	Japan	2001	183.00	24	192.00			Crossbar
186	DKFZ	Hewlett-Packard	SuperDome 750/500 MHz/HyperPlex	Research	Germany	2001	181.20	96	262.60			Myrinet
187	Air Force Weather Agency	IBM	SP PC604e 332 MHz	Research	United States	1999	181.00	440	292.10			SP Switch
188	Pacific Northwest National Laboratory	IBM	SP P2SC 120/135 MHz	Research	United States	1998	180.91	512	248.32	62000		SP Switch
189	Mississippi State University	IBM	IBM x330 Cluster PIII 1GHz	Academic	United States	2001	179.20	586	586.00			Fast Ethernet
190	CNRS/IDRIS	IBM	SP Power3 375 MHz	Academic	France	2001	179.00	176	264.00			SP Switch
191	Bank of America	IBM	SP Power3 375 MHz	Industry	United States	2001	177.00	174	261.00			SP Switch
192	Cambridge University	IBM	SP Power3 375 MHz	Academic	United Kingdom	2001	171.00	168	252.00			SP Switch
193	DeTeCSM	IBM	SP Power3 375 MHz	Industry	Germany	2001	171.00	168	252.00			SP Switch
194	Deutsche Telekom AG	IBM	SP Power3 375 MHz	Industry	Germany	2000	171.00	168	252.00			SP Switch
195	Florida State University	IBM	SP Power3 375 MHz	Academic	United States	2000	171.00	168	252.00			SP Switch
196	National Center for High Performance Computing	IBM	SP Power3 375 MHz	Academic	Taiwan	2000	171.00	168	252.00			SP Switch
197	Compagnie Generale de Geophysique (CGG)	Dell	PowerEdge Cluster PIII 1 GHz - Fast Eth	Industry	United States	2001	169.40	512	512.00			Fast Ethernet
198	Network Computing Services, Inc.	Cray Inc.	T3E900	Industry	United States	1997	169.00	268	241.20			Cray Interconnect
199	University of Alaska - ARSC	Cray Inc.	T3E900	Academic	United States	1999	169.00	268	241.20			Cray Interconnect
200	Metro MGI Informatik	IBM	SP S80s 450 MHz	Industry	Germany	2000	167.80	510	459.00	113000	31000	N/A
201	ABN AMRO	IBM	SP Power3 375 MHz	Industry	Netherlands	2001	167.00	164	246.00			SP Switch
202	DaimlerChrysler	IBM	SP Power3 375 MHz	Industry	Germany	2001	167.00	164	246.00			SP Switch
203	Pharmaceutical Company	IBM	SP Power3 375 MHz	Industry	Germany	2001	165.00	162	243.00			SP Switch
204	Air Force Weather Agency	IBM	SP Power3 375 MHz	Research	United States	2000	164.00	160	240.00			SP Switch
205	Automotive Manufacturer (C)	IBM	SP Power3 375 MHz	Industry	United States	2001	164.00	160	240.00			SP Switch
206	Philip Morris	IBM	SP Power3 375 MHz	Industry	United States	2000	164.00	160	240.00			SP Switch
207	Government	SGI	ORIGIN 3000 400 MHz	Classified	United States	2001	163.50	256	204.80	163200	81920	Crossbar
208	NOAA/Geophysical Fluid Dynamics Laboratory (GFDL)	SGI	ORIGIN 3000 400 MHz	Research	United States	2001	163.50	256	204.80	163200	81920	Crossbar
209	NOAA/Geophysical Fluid Dynamics Laboratory (GFDL)	SGI	ORIGIN 3000 400 MHz	Research	United States	2001	163.50	256	204.80	163200	81920	Crossbar
210	Silicon Graphics	SGI	ORIGIN 3000 400 MHz	Vendor	United States	2001	163.50	256	204.80	163200	81920	Crossbar
211	Bank Administration Institute (BAI)	IBM	SP PC604e 332 MHz	Industry	United States	2000	163.00	396	262.80			SP Switch
212	BCDI	IBM	SP PC604e 332 MHz	Industry	United States	2000	162.00	392	260.20			SP Switch
213	Metallurgical Industry Co.	IBM	SP PC604e 332 MHz	Industry	United States	2000	162.00	392	260.20			SP Switch
214	P&O NedLloyd	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	162.00	158	237.00			SP Switch
215	Support Net Inc	IBM	SP Power3 375 MHz	Industry	United States	2000	160.00	156	234.00			SP Switch

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
216	Unilever	IBM	SP Power3 375 MHz	Industry	United States	2001	160.00	156	234.00			SP Switch
217	Ford Motor Company	SGI	ORIGIN 3000 500 MHz	Industry	United States	2001	158.00	192	192.00			NUMAflex
218	University of Minnesota/Supercomputing Institute	SGI	ORIGIN 3000 500 MHz	Academic	United States	2001	158.00	192	192.00			NUMAflex
219	Dassault Aviation	IBM	SP Power3 375 MHz	Industry	France	2001	156.00	152	228.00			SP Switch
220	Seoul National University	IBM	SP Power3 375 MHz 16 way	Academic	Korea, South	2000	156.00	144	216.00			SP Switch
221	Wright-Patterson Air Force Base/DoD ASC	SGI	ORIGIN 2000	Research	United States	1999	152.00	512	199.68			Crossbar
222	NOAA/Geophysical Fluid Dynamics Laboratory (GFDL)	SGI	ORIGIN 3000 400 MHz - Eth-Cluster	Research	United States	2001	151.20	896	716.80			Ethernet
223	BASF	IBM	SP PC604e 332 MHz	Industry	Germany	2000	151.00	364	241.60			SP Switch
224	Tsukuba Advanced Computing Center - TACC/AIST	IBM	SP Power3 200 MHz	Research	Japan	1999	149.30	256	204.80	100000	18500	SP Switch
225	Victorian Partnership for Advanced Computing (VPAC)	Hewlett-Packard	AlphaServer SC40, 833 MHz	Academic	Australia	2001	149.10	128	213.20	70000		Quadrics
226	Commissariat a l'Energie Atomique (CEA)	Fujitsu	VPP5000/16	Research	France	1999	149.00	16	153.60	120768	4416	Crossbar
227	Delta Technology	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	148.80	96	211.20			Myrinet
228	Energy Company	Hewlett-Packard	SuperDome/HyperPlex	Industry	Netherlands	2001	148.80	96	211.20			Myrinet
229	NVON BV	Hewlett-Packard	SuperDome/HyperPlex	Industry	Netherlands	2001	148.80	96	211.20			Myrinet
230	Netsiel S.P.A.	Hewlett-Packard	SuperDome/HyperPlex	Industry	Italy	2001	148.80	96	211.20			Myrinet
231	POSCO	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	148.80	96	211.20			Myrinet
232	Service Company	Hewlett-Packard	SuperDome/HyperPlex	Industry	Japan	2001	148.80	96	211.20			Myrinet
233	Service Company	Hewlett-Packard	SuperDome/HyperPlex	Industry	Japan	2001	148.80	96	211.20			Myrinet
234	Talk America	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	148.80	96	211.20			Myrinet
235	UPS	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	148.80	96	211.20			Myrinet
236	Prudential Insurance	IBM	SP Power3 375 MHz	Industry	United States	2000	148.00	144	216.00			SP Switch
237	University of Manchester	IBM	SP Power3 375 MHz	Academic	United Kingdom	2001	148.00	144	216.00			SP Switch
238	Alliant Energy	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
239	American Airlines	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
240	American Airlines	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
241	American Airlines	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2000	147.10	96	211.20			Myrinet
242	American Airlines	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
243	CGI	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
244	Equiva	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
245	Equiva	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
246	Forsythe & McArthur	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
247	Hutchison Telecom	Hewlett-Packard	SuperDome/HyperPlex	Industry	France	2001	147.10	96	211.20			Myrinet
248	Hutchison Telecommunications	Hewlett-Packard	SuperDome/HyperPlex	Industry	Japan	2001	147.10	96	211.20			Myrinet
249	Mannesmann Arcor	Hewlett-Packard	SuperDome/HyperPlex	Industry	Germany	2001	147.10	96	211.20			Myrinet
250	Nike	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
251	Nike	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
252	Sprint	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
253	Sprint PCS	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	147.10	96	211.20			Myrinet
254	IBM	IBM	Netfinity Cluster PIII 1 GHz - Myrinet	Vendor	United States	2001	147.00	256	256.00			Myrinet
255	University of British Columbia	IBM	Netfinity Cluster PIII 1 GHz - Myrinet	Academic	Canada	2001	147.00	256	256.00			Myrinet
256	Manufacturing Company	IBM	SP Power3 375 MHz	Industry	Japan	2000	146.00	142	213.00			SP Switch
257	ROWIKA / Pulsen	IBM	SP Power3 375 MHz	Industry	Sweden	2001	144.00	140	210.00			SP Switch
258	Institute of Statistical Mathematics	Hitachi	SR8000/20	Research	Japan	1999	144.00	20	160.00	48000	4000	Crossbar

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
259	Norwegian University of Science and Technology	SGI	ORIGIN 3000 400 MHz	Academic	Norway	2001	141.00	220	176.00			Crossbar
260	Chemical Company	IBM	SP S80s 450 MHz	Industry	Germany	2000	139.00	294	264.60			N/A
261	BMW AG	Hewlett-Packard	V2500/HyperPlex	Industry	Germany	2000	138.90	192	337.92			Myrinet
262	DeTeCSM	IBM	SP PC604e 332 MHz	Industry	Germany	2000	138.00	452	300.10			SP Switch
263	DeTeCSM	IBM	SP PC604e 332 MHz	Industry	Germany	2000	138.00	452	300.10			SP Switch
264	CINECA	IBM	SP Power3 375 MHz 16 way	Academic	Italy	2000	138.00	128	192.00	76000	16000	SP Switch
265	SARA (Stichting Academisch Rekencentrum)	IBM	SP Power3 375 MHz 16 way	Academic	Netherlands	2001	138.00	128	192.00	76000	16000	SP Switch
266	University of Victoria	IBM	SP Power3 375 MHz 16 way	Academic	Canada	2001	138.00	128	192.00	76000	16000	SP Switch
267	Bank	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	137.10	256	204.80			N/A
268	Clearstream Services	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Luxembourg	2000	137.10	256	204.80			N/A
269	E-commerce	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	137.10	256	204.80			N/A
270	Ford Motor Company	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	137.10	256	204.80			N/A
271	GTE Communications	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	137.10	256	204.80			N/A
272	GTE Communications	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	137.10	256	204.80			N/A
273	MobilCom	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Germany	2001	137.10	256	204.80			N/A
274	MobilCom	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Germany	2001	137.10	256	204.80			N/A
275	Motorola	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	137.10	256	204.80			N/A
276	New York City - Human Resources	Sun Microsystems	HPC 10000 400 MHz Cluster	Government	United States	1999	137.10	256	204.80			N/A
277	Sun	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	137.10	256	204.80			N/A
278	US Army Research Laboratory (ARL)	Sun Microsystems	HPC 10000 400 MHz Cluster	Research	United States	1999	137.10	256	204.80			N/A
279	Kaiser Foundation	IBM	SP Power3 375 MHz	Industry	United States	2000	136.00	132	198.00			SP Switch
280	SHARCNET - University of Guelph	Hewlett-Packard	Hammerhead ev68 833 MHz Quadrics	Academic	Canada	2001	133.40	104	173.26	92000		Quadrics
281	IBM Credit Corporation	IBM	SP PC604e 332 MHz	Industry	United States	2000	133.00	320	212.40			SP Switch
282	IBM Thomas J. Watson Research Center	IBM	SP PC604e 332 MHz	Research	United States	2000	133.00	320	212.40			SP Switch
283	Academia Sinica	IBM	SP Power3 375 MHz	Research	Taiwan	2001	132.00	128	192.00	107000	15400	SP Switch
284	C4 / Centre Europeo del Paralelismo de Barcelona	IBM	SP Power3 375 MHz	Academic	Spain	2001	132.00	128	192.00	107000	15400	SP Switch
285	CSC (Center for Scientific Computing)	IBM	SP Power3 375 MHz	Academic	Finland	2000	132.00	128	192.00	107000	15400	SP Switch
286	Caltech	IBM	SP Power3 375 MHz	Academic	United States	2000	132.00	128	192.00	107000	15400	SP Switch
287	Credit Suisse	IBM	SP Power3 375 MHz	Industry	Switzerland	2000	132.00	128	192.00	107000	15400	SP Switch
288	IBM	IBM	SP Power3 375 MHz	Vendor	United States	2000	132.00	128	192.00	107000	15400	SP Switch
289	Princeton University	IBM	SP Power3 375 MHz	Academic	United States	2000	132.00	128	192.00	107000	15400	SP Switch
290	Scientific Supercomputing Center Karlsruhe	IBM	SP Power3 375 MHz	Academic	Germany	2000	132.00	128	192.00	107000	15400	SP Switch
291	Compagnie Generale de Geophysique (CGG)	Dell	PowerEdge Cluster PIII 1 GHz Fast Eth	Industry	United States	2001	131.00	400	400.00	130000	65000	Fast Ethernet
292	Telecom Denmark (Danadata)	IBM	SP Power3 375 MHz	Industry	Denmark	2000	130.00	126	189.00			SP Switch
293	Brigham Young University	IBM	SP Power3 375 MHz	Academic	United States	2001	128.00	124	186.00			SP Switch
294	Sony Data	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	128.00	124	186.00			SP Switch
295	Manufacturing Company	Hewlett-Packard	SuperDome/HyperPlex	Industry	Japan	2001	126.30	80	176.00			Myrinet
296	VW (Volkswagen AG)	Hewlett-Packard	SuperDome 750 MHz/HyperPlex	Industry	Germany	2001	126.10	64	192.00			Myrinet
297	British Airways	IBM	SP PC604e 332 MHz	Industry	United Kingdom	1999	126.00	302	200.50			SP Switch
298	Frontier Research System for Global Change	NEC	SX-5/16A	Research	Japan	1999	125.80	16	128.00	55296		Crossbar
299	GSIC Center, Tokyo Institute of Technology	NEC	SX-5/16A	Academic	Japan	1999	125.80	16	128.00	55296		Crossbar
300	ONERA	NEC	SX-5/16A	Research	France	1999	125.80	16	128.00	55296		Crossbar
301	Tohoku University, Institute of Fluid Science	NEC	SX-5/16A	Academic	Japan	1999	125.80	16	128.00	55296		Crossbar

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
302	IBM Thomas J. Watson Research Center	IBM	SP Power3 200 MHz	Research	United States	2000	124.40	212	169.60			SP Switch
303	Philips Lighting	IBM	SP PC604e 332 MHz	Industry	Netherlands	2000	124.00	298	197.80			SP Switch
304	Barclays Bank	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	124.00	120	180.00			SP Switch
305	Geco-Prakla	IBM	SP Power3 375 MHz	Industry	United States	2000	124.00	120	180.00			SP Switch
306	Georgia Institute of Technology	IBM	SP Power3 375 MHz	Research	United States	2001	124.00	120	180.00			SP Switch
307	Western Geophysical	IBM	SP Power3 375 MHz	Industry	United Kingdom	2000	124.00	120	180.00			SP Switch
308	Hospital for Sick Children/University of Toronto	SGI	ORIGIN 3000 400 MHz	Research	Canada	2001	124.00	192	153.60			Crossbar
309	Lockheed Martin	Hewlett-Packard	V2500/HyperPlex	Industry	United States	1999	123.30	160	281.60			Myrinet
310	Banque National Paris	IBM	SP PC604e 332 MHz	Industry	France	2000	122.00	292	193.80			SP Switch
311	Meteorological Service of Canada (MSC)	NEC	SX-4/64M2	Research	Canada	1999	122.00	64	128.00	30080	4352	Crossbar
312	National Institute for Fusion Science	NEC	SX-4/64M2	Research	Japan	1997	122.00	64	128.00	30080	4352	Crossbar
313	Financial Services	Sun Microsystems	HPC 420 400 MHz Cluster	Industry	United States	2000	121.90	180	144.00			N/A
314	DaimlerChrysler	Hewlett-Packard	N4000 550 MHz/HyperPlex	Industry	United States	2000	121.60	176	387.20			Myrinet
315	SHARCNET - McMaster University	Hewlett-Packard	AlphaServer SC ES40/EV67	Academic	Canada	2001	121.30	121	161.33	107520		Quadrics
316	Centre Informatique National (CINES)	SGI	ORIGIN 2000 300 MHz	Academic	France	1999	121.00	256	153.60			Crossbar
317	GSIC Center, Tokyo Institute of Technology	SGI	ORIGIN 2000 300 MHz	Academic	Japan	2000	121.00	256	153.60			Crossbar
318	Institute for Molecular Science/ Okazaki Nat. Res. Institute	SGI	ORIGIN 2000 300 MHz	Research	Japan	2000	121.00	256	153.60			Crossbar
319	HWW/Universitaet Stuttgart	NEC	SX-5/32Me2	Industry	Germany	2000	121.00	32	128.00			Crossbar
320	Cornell Theory Center	Dell	Dell PowerEdge Cluster Windows 2000	Academic	United States	2001	120.70	252	252.00	155000	50000	Gigaset
321	Alcatel	IBM	SP PC604e 332 MHz	Industry	France	2000	120.00	288	191.30			SP Switch
322	Equifax	IBM	SP Power3 375 MHz	Industry	United States	2001	120.00	116	174.00			SP Switch
323	Lloyds TSB	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	120.00	116	174.00			SP Switch
324	TRW	IBM	SP Power3 375 MHz	Industry	United States	2001	120.00	116	174.00			SP Switch
325	Airline	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United Kingdom	2000	118.16	192	153.60			N/A
326	Bank	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Germany	2000	118.16	192	153.60			N/A
327	Bank	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Italy	2000	118.16	192	153.60			N/A
328	BellSouth	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	118.16	192	153.60			N/A
329	Chase GlobalNet	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	118.16	192	153.60			N/A
330	Financial Services	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United Kingdom	2000	118.16	192	153.60			N/A
331	Gateway	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	118.16	192	153.60			N/A
332	Rakuten	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Japan	2000	118.16	192	153.60			N/A
333	Telecommunication Company	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Japan	2000	118.16	192	153.60			N/A
334	EDS	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	United States	2000	118.10	192	153.60			N/A
335	Telcel Radiomovil Dipsa	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Mexico	2000	118.10	192	153.60			N/A
336	Fujitsu System Evaluation Center	Fujitsu	PRIMEPOWER2000 675 MHz	Vendor	Japan	2001	118.00	128	259.20	116480	43000	N/A
337	CNRS/IDRIS	Cray Inc.	T3E	Academic	France	1996	117.00	268	160.80			Cray Interconnect
338	Government	Cray Inc.	T3E	Classified	United States	1997	117.00	268	160.80			Cray Interconnect
339	National Supercomputer Centre (NSC)	Cray Inc.	T3E	Academic	Sweden	1997	117.00	268	160.80			Cray Interconnect
340	Texas Advanced Computing Center/Univ. of Texas	Cray Inc.	T3E	Academic	United States	1996	117.00	268	160.80			Cray Interconnect
341	Automotive Manufacturer (F)	IBM	SP Power3 375 MHz	Industry	Italy	2001	116.00	112	168.00			SP Switch
342	Geco-Prakla	IBM	SP Power3 375 MHz	Industry	United States	2000	116.00	112	168.00			SP Switch
343	HSCB	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	116.00	112	168.00			SP Switch
344	PGS	IBM	SP Power3 375 MHz	Industry	United States	2001	116.00	112	168.00			SP Switch

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
345	State of Illinois	IBM	SP Power3 375 MHz	Government	United States	2001	116.00	112	168.00			SP Switch
346	ThyssenKrupp Information Systems	IBM	SP Power3 375 MHz	Industry	Germany	2000	116.00	112	168.00			SP Switch
347	Triaton	IBM	SP Power3 375 MHz	Industry	Germany	2001	116.00	112	168.00			SP Switch
348	Volvo	IBM	SP Power3 375 MHz	Industry	Sweden	2001	116.00	112	168.00			SP Switch
349	National Institute for Water and Atmospheric Resea	Cray Inc.	T3E1200	Research	New Zealand	1999	115.90	140	168.00			Cray Interconnect
350	Institute of Physical and Chemical Res. (RIKEN)	Fujitsu	PRIMERGY CL460J (P4 1.7 GHz)	Research	Japan	2001	115.70	64	217.60	40000	9000	N/A
351	HWW/Universitaet Stuttgart & DLR	Hitachi	SR8000/16	Industry	Germany	2000	115.00	16	128.00	42928	3584	Crossbar
352	Government	Cray Inc.	T3E1350	Classified	United States	2000	113.90	148	199.80			Cray Interconnect
353	Phillips Petroleum Company	Cray Inc.	T3E1350	Industry	United States	2000	113.90	132	178.20			Cray Interconnect
354	Sprint PCS	IBM	SP PC604e 332 MHz	Industry	United States	1999	112.00	268	177.90			SP Switch
355	Allianz Versicherungsgruppe	IBM	SP Power3 375 MHz	Industry	Germany	2001	112.00	108	162.00			SP Switch
356	Banco Vitalico	IBM	SP Power3 375 MHz	Industry	Austria	2001	112.00	108	162.00			SP Switch
357	British Airways	IBM	SP Power3 375 MHz	Industry	United Kingdom	2000	112.00	108	162.00			SP Switch
358	Philip Morris	IBM	SP Power3 375 MHz	Industry	United States	2001	112.00	108	162.00			SP Switch
359	National Institute of Genetics	Fujitsu	VPP5000/12	Research	Japan	2001	112.00	12	115.20			Crossbar
360	Japan Adv. Inst. of Science and Technology (JAIST)	Cray Inc.	T3E1200	Academic	Japan	2001	110.90	134	160.80			Cray Interconnect
361	University of Adelaide	Sun Microsystems	HPC 420 450 MHz Cluster	Academic	Australia	2000	110.01	160	144.00			N/A
362	Atomic Weapons Establishment	IBM	SP P2SC 160 MHz	Classified	United Kingdom	1999	109.90	252	161.20			SP Switch
363	Ford Motor Company	SGI	ORIGIN 2000 300 MHz - Eth-Cluster	Industry	United States	1999	109.50	384	230.40	81920	81920	Ethernet
364	University of Tokyo/Institute for Solid State Physics	SGI	ORIGIN 2000 300 MHz - Eth-Cluster	Academic	Japan	1999	109.50	384	230.40	81920	81920	Ethernet
365	SberBank	Hewlett-Packard	SuperDome/HyperPlex	Industry	Russia	2001	109.10	72	158.40			Myrinet
366	ThyssenKrupp Information Systems	IBM	SP PC604e 332 MHz	Industry	Germany	2000	109.00	260	172.60			SP Switch
367	BASF	IBM	SP PC604e 332 MHz	Industry	Germany	1998	108.10	256	169.98	81460	14180	SP Switch
368	Japan Adv. Inst. of Science and Technology (JAIST)	IBM	SP PC604e 332 MHz	Academic	Japan	1999	108.10	256	169.98	81460	14180	SP Switch
369	Universitaet Wuppertal	Hewlett-Packard	ALICE EV67 616 MHz	Academic	Germany	2000	108.00	128	157.70	56000		Myrinet
370	NOAA/Geophysical Fluid Dynamics Laboratory (GFDL)	Cray Inc.	T3E900	Research	United States	2001	107.00	172	154.80			Cray Interconnect
371	CINECA	SGI	ORIGIN 3000 500 MHz	Academic	Italy	2001	106.90	128	128.00	81920		NUMAflex
372	Ecole Polytechnique Federale de Lausanne	SGI	ORIGIN 3000 500 MHz	Academic	Switzerland	2001	106.90	128	128.00	81920		NUMAflex
373	Naval Research Laboratory (NRL)	SGI	ORIGIN 3000 500 MHz	Research	United States	2001	106.90	128	128.00	81920		NUMAflex
374	Caltech/JPL	Hewlett-Packard	V2500/HyperPlex	Academic	United States	1999	106.10	128	225.28			Myrinet
375	British Airways	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	106.00	102	153.00			SP Switch
376	Leibniz Rechenzentrum	Fujitsu	VPP700/52	Academic	Germany	1998	106.00	52	114.40			Crossbar
377	Mannesmann Mobilfunk	Sun Microsystems	HPC 10000 400 MHz Cluster	Industry	Germany	2000	105.32	168	134.40			N/A
378	CIGNA	IBM	SP Power3 375 MHz	Industry	United States	2001	104.00	100	150.00			SP Switch
379	Cadence	IBM	SP Power3 375 MHz	Industry	United States	2001	104.00	100	150.00			SP Switch
380	Financial Institution	IBM	SP Power3 375 MHz	Industry	France	2001	104.00	100	150.00			SP Switch
381	HSCB	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	104.00	100	150.00			SP Switch
382	TRW	IBM	SP Power3 375 MHz	Industry	United States	2000	104.00	100	150.00			SP Switch
383	Westdeutsche Landesbank	IBM	SP Power3 375 MHz	Industry	Germany	2001	104.00	100	150.00			SP Switch
384	Energy Company	IBM	SP Power3 375 MHz 16 way	Industry	United States	2001	104.00	96	144.00			SP Switch
385	Manufacturing Company	IBM	SP PC604e 332 MHz	Industry	United States	1999	103.00	246	163.34			SP Switch
386	DaimlerChrysler	Hewlett-Packard	N4000 550 MHz/HyperPlex	Industry	United States	2001	102.80	144	316.80			Myrinet
387	National Institute of Genetics	Fujitsu	PRIMEPOWER2000 563 MHz	Research	Japan	2001	102.00	128	216.20	116480	44000	N/A

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
388	Deutsche Telekom AG	IBM	SP PC604e 332 MHz	Industry	Germany	1999	102.00	242	160.68			SP Switch
389	ITS SRL Torino	IBM	SP Power3 375 MHz	Industry	Italy	2001	102.00	98	147.00			SP Switch
390	OEDIV OETKER	IBM	SP Power3 375 MHz	Industry	Germany	2001	102.00	98	147.00			SP Switch
391	NASA/Ames Research Center/NAS	SGI	ORIGIN 2000 250 MHz	Research	United States	1998	101.40	256	128.00	86400	13248	Crossbar
392	Hitachi Mechanical Engineering Res. Lab.	Hitachi	SR8000-G1/8	Industry	Japan	2001	101.30	8	115.20	44000	2432	Crossbar
393	Government	Cray Inc.	T3D MC1024-8	Classified	United States	1994	100.50	1024	153.60	81920	10224	Cray Interconnect
394	Ahold	IBM	SP Power3 375 MHz	Industry	United States	2001	100.00	96	144.00			SP Switch
395	BRS STF	IBM	SP Power3 375 MHz	Industry	United States	2000	100.00	96	144.00			SP Switch
396	Barclays Bank	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	100.00	96	144.00			SP Switch
397	Barclays Bank	IBM	SP Power3 375 MHz	Industry	United Kingdom	2001	100.00	96	144.00			SP Switch
398	Energy Company	IBM	SP Power3 375 MHz	Industry	United States	2001	100.00	96	144.00			SP Switch
399	IGS/CRM	IBM	SP Power3 375 MHz	Industry	United States	2001	100.00	96	144.00			SP Switch
400	Southwestern Bell	IBM	SP Power3 375 MHz	Industry	United States	2001	100.00	96	144.00			SP Switch
401	Telecom Denmark (Danadata)	IBM	SP Power3 375 MHz	Industry	Denmark	2000	100.00	96	144.00			SP Switch
402	Telekom Austria	IBM	SP Power3 375 MHz	Industry	Austria	2000	100.00	96	144.00			SP Switch
403	United Airlines	IBM	SP Power3 375 MHz	Industry	United States	2001	100.00	96	144.00			SP Switch
404	Advizex Tech	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
405	Agilent	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
406	Agilent	Hewlett-Packard	SuperDome	Industry	Japan	2001	99.90	64	140.80			N/A
407	Alestra	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
408	Alestra De LR	Hewlett-Packard	SuperDome	Industry	Venezuela	2001	99.90	64	140.80			N/A
409	Amdocs	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
410	Arnold Engineering Development Center (AEDC)	Hewlett-Packard	SuperDome	Research	United States	2001	99.90	64	140.80			N/A
411	Atlanta Bus Center	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
412	Banco Popular	Hewlett-Packard	SuperDome	Industry	Puerto Rico	2001	99.90	64	140.80			N/A
413	Corporacion Digitel CA	Hewlett-Packard	SuperDome	Industry	Venezuela	2001	99.90	64	140.80			N/A
414	DST Canada Inc	Hewlett-Packard	SuperDome	Industry	Canada	2001	99.90	64	140.80			N/A
415	DaimlerChrysler	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
416	Defense Logistics	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
417	Delta Airlines	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
418	EADS Airbus	Hewlett-Packard	SuperDome	Industry	France	2001	99.90	64	140.80			N/A
419	Ernst & Young	Hewlett-Packard	SuperDome	Industry	Canada	2001	99.90	64	140.80			N/A
420	Government	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
421	Government	Hewlett-Packard	SuperDome	Classified	Germany	2001	99.90	64	140.80			N/A
422	Government	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
423	Government	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
424	Government	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
425	Government	Hewlett-Packard	SuperDome	Classified	Germany	2001	99.90	64	140.80			N/A
426	Government	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
427	Government	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
428	Government	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
429	Government	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
430	HP Ford Project	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
431	Herman Miller	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
432	Hewlett-Packard	Hewlett-Packard	SuperDome	Vendor	Japan	2001	99.90	64	140.80			N/A
433	Kone Cranes	Hewlett-Packard	SuperDome	Industry	China	2001	99.90	64	140.80			N/A
434	Lockheed Martin	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
435	Manufacturing Company	Hewlett-Packard	SuperDome	Industry	Japan	2001	99.90	64	140.80			N/A
436	POSDATA	Hewlett-Packard	SuperDome	Industry	Korea, South	2001	99.90	64	140.80			N/A
437	POSDATA	Hewlett-Packard	SuperDome	Industry	Korea, South	2001	99.90	64	140.80			N/A
438	Qwest	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
439	Qwest	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
440	Samsung Fire & Insurance	Hewlett-Packard	SuperDome	Industry	Korea, South	2001	99.90	64	140.80			N/A
441	State Street Bank	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
442	TSMC	Hewlett-Packard	SuperDome	Industry	Taiwan	2001	99.90	64	140.80			N/A
443	Talk America	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
444	Talk America	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
445	Telmex	Hewlett-Packard	SuperDome	Industry	Mexico	2001	99.90	64	140.80			N/A
446	UPS	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
447	US Navy	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
448	US Navy	Hewlett-Packard	SuperDome	Classified	United States	2001	99.90	64	140.80			N/A
449	Universitaet Hamburg-Harburg	Hewlett-Packard	SuperDome	Academic	Germany	2001	99.90	64	140.80			N/A
450	Universitaet Magdeburg	Hewlett-Packard	SuperDome	Academic	Germany	2001	99.90	64	140.80			N/A
451	University of Jena	Hewlett-Packard	SuperDome	Academic	Germany	2001	99.90	64	140.80			N/A
452	Verizon	Hewlett-Packard	SuperDome	Industry	United States	2001	99.90	64	140.80			N/A
453	Vodafone	Hewlett-Packard	SuperDome	Industry	United Kingdom	2001	99.90	64	140.80			N/A
454	WM Data	Hewlett-Packard	SuperDome	Industry	Sweden	2001	99.90	64	140.80			N/A
455	AT&T	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
456	Ares	Hewlett-Packard	SuperDome/HyperPlex	Industry	France	2001	99.20	64	140.80			Myrinet
457	Arnold Engineering Development Center (AEDC)	Hewlett-Packard	SuperDome/HyperPlex	Research	United States	2001	99.20	64	140.80			Myrinet
458	Belgacom	Hewlett-Packard	SuperDome/HyperPlex	Industry	Belgium	2001	99.20	64	140.80			Myrinet
459	CTI/ShanDong Common	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	99.20	64	140.80			Myrinet
460	Cerveceria Polar	Hewlett-Packard	SuperDome/HyperPlex	Industry	Venezuela	2001	99.20	64	140.80			Myrinet
461	Cisco	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
462	Cisco	Hewlett-Packard	SuperDome/HyperPlex	Industry	Netherlands	2001	99.20	64	140.80			Myrinet
463	Citibank	Hewlett-Packard	SuperDome/HyperPlex	Industry	Singapore	2001	99.20	64	140.80			Myrinet
464	Comline AG	Hewlett-Packard	SuperDome/HyperPlex	Industry	Germany	2001	99.20	64	140.80			Myrinet
465	DeTeCSM	Hewlett-Packard	SuperDome/HyperPlex	Industry	Germany	2001	99.20	64	140.80			Myrinet
466	Financial Institute	Hewlett-Packard	SuperDome/HyperPlex	Industry	Japan	2001	99.20	64	140.80			Myrinet
467	ITS Information Tech	Hewlett-Packard	SuperDome/HyperPlex	Industry	Italy	2001	99.20	64	140.80			Myrinet
468	Infineon	Hewlett-Packard	SuperDome/HyperPlex	Industry	Germany	2001	99.20	64	140.80			Myrinet
469	Infopoint/Renault	Hewlett-Packard	SuperDome/HyperPlex	Industry	France	2001	99.20	64	140.80			Myrinet
470	Infostrada SPA	Hewlett-Packard	SuperDome/HyperPlex	Industry	Italy	2001	99.20	64	140.80			Myrinet
471	Jiangxi Beijing	Hewlett-Packard	SuperDome/HyperPlex	Industry	China	2001	99.20	64	140.80			Myrinet
472	Korea Investment Trust	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	99.20	64	140.80			Myrinet
473	Landis Group N.V.	Hewlett-Packard	SuperDome/HyperPlex	Industry	Netherlands	2001	99.20	64	140.80			Myrinet

Rank	Site	Manufacturer	Computer	Inst. type	Country	Year	Rmax	Processors	Rpeak	Nmax	Nhalf	Interconnect
474	Minority Alliance	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
475	Oesterreichische Post	Hewlett-Packard	SuperDome/HyperPlex	Industry	Austria	2001	99.20	64	140.80			Myrinet
476	Omnitel Pronto Italia	Hewlett-Packard	SuperDome/HyperPlex	Industry	Italy	2001	99.20	64	140.80			Myrinet
477	Omnitel Pronto Italia	Hewlett-Packard	SuperDome/HyperPlex	Industry	Italy	2001	99.20	64	140.80			Myrinet
478	Raytheon	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
479	Raytheon	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
480	Raytheon/US Army	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
481	Raytheon/US Army	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
482	SAP	Hewlett-Packard	SuperDome/HyperPlex	Industry	Germany	2001	99.20	64	140.80			Myrinet
483	Samsung SDS	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	99.20	64	140.80			Myrinet
484	Samsung SDS	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	99.20	64	140.80			Myrinet
485	Shinhan Bank	Hewlett-Packard	SuperDome/HyperPlex	Industry	Korea, South	2001	99.20	64	140.80			Myrinet
486	Sprint	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
487	Sprint PCS	Hewlett-Packard	SuperDome/HyperPlex	Industry	United States	2001	99.20	64	140.80			Myrinet
488	Statoil	Hewlett-Packard	SuperDome/HyperPlex	Industry	Norway	2001	99.20	64	140.80			Myrinet
489	Xfera Moviles	Hewlett-Packard	SuperDome/HyperPlex	Industry	Spain	2001	99.20	64	140.80			Myrinet
490	SARA (Stichting Academisch Rekencentrum)	SGI	ORIGIN 2000 250/300 MHz - Eth-Cluster	Academic	Netherlands	2000	98.80	256	140.00	81920		Ethernet
491	FT USEI	IBM	SP Power3 375 MHz	Industry	France	2000	98.20	94	141.00			SP Switch
492	Sony Electronics	IBM	SP Power3 375 MHz	Industry	United States	2001	98.20	94	141.00			SP Switch
493	Chase Manhattan	IBM	SP PC604e 332 MHz	Industry	United States	1999	98.00	232	154.04			SP Switch
494	ECMWF	Fujitsu	VPP700/48E	Research	United Kingdom	1998	97.50	48	115.20			Crossbar
495	Universitaet Tuebingen	Self-made	Kepler PIII 650 MHz	Academic	Germany	2000	96.20	196	127.40	109760	12320	Fast Ethernet
496	SCT Velizy	IBM	SP Power3 375 MHz	Industry	France	2001	96.10	92	138.00			SP Switch
497	SCT Velizy	IBM	SP Power3 375 MHz	Industry	France	2001	96.10	92	138.00			SP Switch
498	TRW	IBM	SP Power3 375 MHz	Industry	Germany	2001	96.10	92	138.00			SP Switch
499	ThyssenKrupp Information Systems	IBM	SP PC604e 332 MHz	Industry	Germany	2000	95.40	226	150.06			SP Switch
500	Environmental Protection Agency	Cray Inc.	T3E1200	Research	United States	2001	94.30	116	139.20			Cray Interconnect