

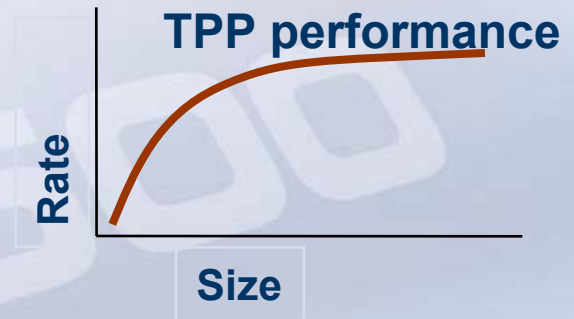


10 Years TOP500

BOF-Session „TOP500 Supercomputers“
at SC2002 in Baltimore

- 1. Introduction (Hans Meuer, University of Mannheim)
- 2. Awards (Horst Simon, NERSC/LBNL)
- 3. TOP500 and Architectures (Erich Strohmaier, NERSC/LBNL)
- 4. TOP500 and Linpack (Jack Dongarra, University of Tennessee)
- 5. New and Alternative Benchmarks
 - IPACS (Franz-Josef Pfreundt, ITWM Kaiserslautern and Karl Solchenbach, Pallas)
 - STREAM (John D. McCalpin, IBM & University of Virginia)
 - NERSC Performance Characterization Project (Erich Strohmaier)
- 6. Countries and HPC Centers in the TOP500 (Horst Simon)

- Listing of the 500 most powerful Computers in the World
- Yardstick: Rmax from Linpack
 $Ax=b$, dense problem
- Updated twice a year:
 - ISC'xy in Germany, June xy
 - SC'xy in USA, November xy
- All data available at www.top500.org



- 1. List in June 1993
- 19. List on June 20, 2002, at ISC2002 in Heidelberg
- 20. List on Nov. 20, 2002 , at SC2002 in Baltimore
- 21. List on June 26, 2003, at ISC2003 in Heidelberg
- 22. List on Nov. 19, 2003, at SC2003 in Phoenix
- Accepted by users and manufacturers

- Hans- Werner Meuer, University of Mannheim
- Erich Strohmaier, NERSC/LBNL
- Jack J. Dongarra, University of Tennessee
- Horst D. Simon, NERSC/LBNL
- Anas Nashif, Prometheus GmbH

More Information at www.top500.org or cluster.top500.org

TOP500 Supercomputer sites: - Netscape

http://rc1.top500.org/

DSB - DWZ-Datenbank - Vereine in Spielbez... TOP500 Supercomputer sites:



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TOP500 SUPERCOMPUTER SITES

The TOP500 project was started in 1993 to provide a reliable basis for tracking and detecting trends in high-performance computing. Twice a year, a list of the sites operating the 500 most powerful computer systems is assembled and released. The best performance on the [Linpack](#) benchmark is used as performance measure for ranking the computer systems. The list contains a variety of information including the system specifications and its major application areas.

TOP500 INFORMATION

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20th TOP500 List now available
NOV 2002 The **20th TOP500 List** is now available and will be introduced during the [Supercomputing Conference 2002 \(SC2002\)](#) in Baltimore (November 16-22, 2002).
[<more>](#)
- 

BOF - Session: 10 Years TOP500 Lists
SC2002 The BOF session will be held during SC2002 in Baltimore, Wednesday November 20th, 5:30 - 7:00 pm.
[<more>](#)
- 

ISC2003 and TOP500 at SC2002 in Baltimore
SC2002 The TOP500 Project will have a booth (#1641) at the SC2002 Exhibition in Baltimore, November 17 - 22. You are invited to visit us for in depth information about the latest TOP500 list. All four authors of the TOP500 list may be contacted at our booth.
- High-Performance Linpack Benchmark**
SC2002 The Linpack benchmark can now be run using [HPL](#), A Portable Implementation of the High-Performance Linpack

into
Fully-Integrated
Clusters





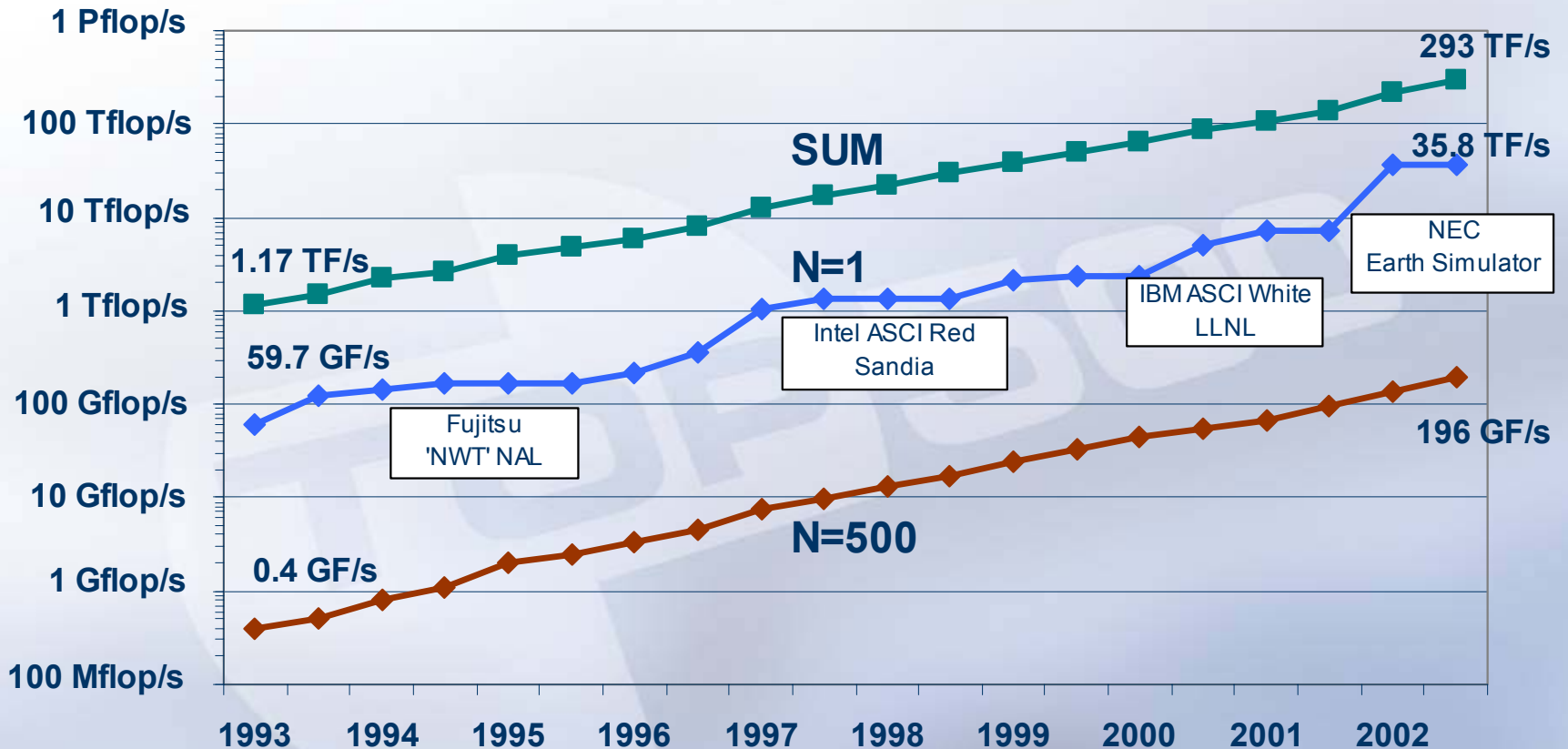


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20th List: The TOP10

Rank	Manufacturer	Computer	R_{\max} [TF/s]	Installation Site	Country	Year	Area of Installation	# Proc
1	NEC	Earth-Simulator	35.86	Earth Simulator Center	Japan	2002	Research	5120
2	HP	ASCI Q, AlphaServer SC	7.73	Los Alamos National Laboratory	USA	2002	Research	4096
3	HP	ASCI Q, AlphaServer SC	7.73	Los Alamos National Laboratory	USA	2002	Research	4096
4	IBM	ASCI White SP Power3	7.23	Lawrence Livermore National Laboratory	USA	2000	Research	8192
5	Linux NetworX	MCR Cluster – Quadrics	5.69	Lawrence Livermore National Laboratory	USA	2002	Research	8192
6	HP	AlphaServer SC ES45 1 GHz	4.46	Pittsburgh Supercomputing Center	USA	2001	Academic	3016
7	HP	AlphaServer SC ES45 1 GHz	3.98	Commissariat a l’Energie Atomique (CEA)	France	2001	Research	2560
8	HPTi	Xeon Cluster - Myrinet2000	3.34	Forecast Systems Laboratory - NOAA	USA	2002	Research	1536
9	IBM	pSeries 690 Turbo	3.16	HPCx	UK	2002	Academic	1280
10	IBM	pSeries 690 Turbo	3.16	NCAR (National Center for Atmospheric Research)	USA	2002	Research	1216

Performance Development



Projected Performance Development

