

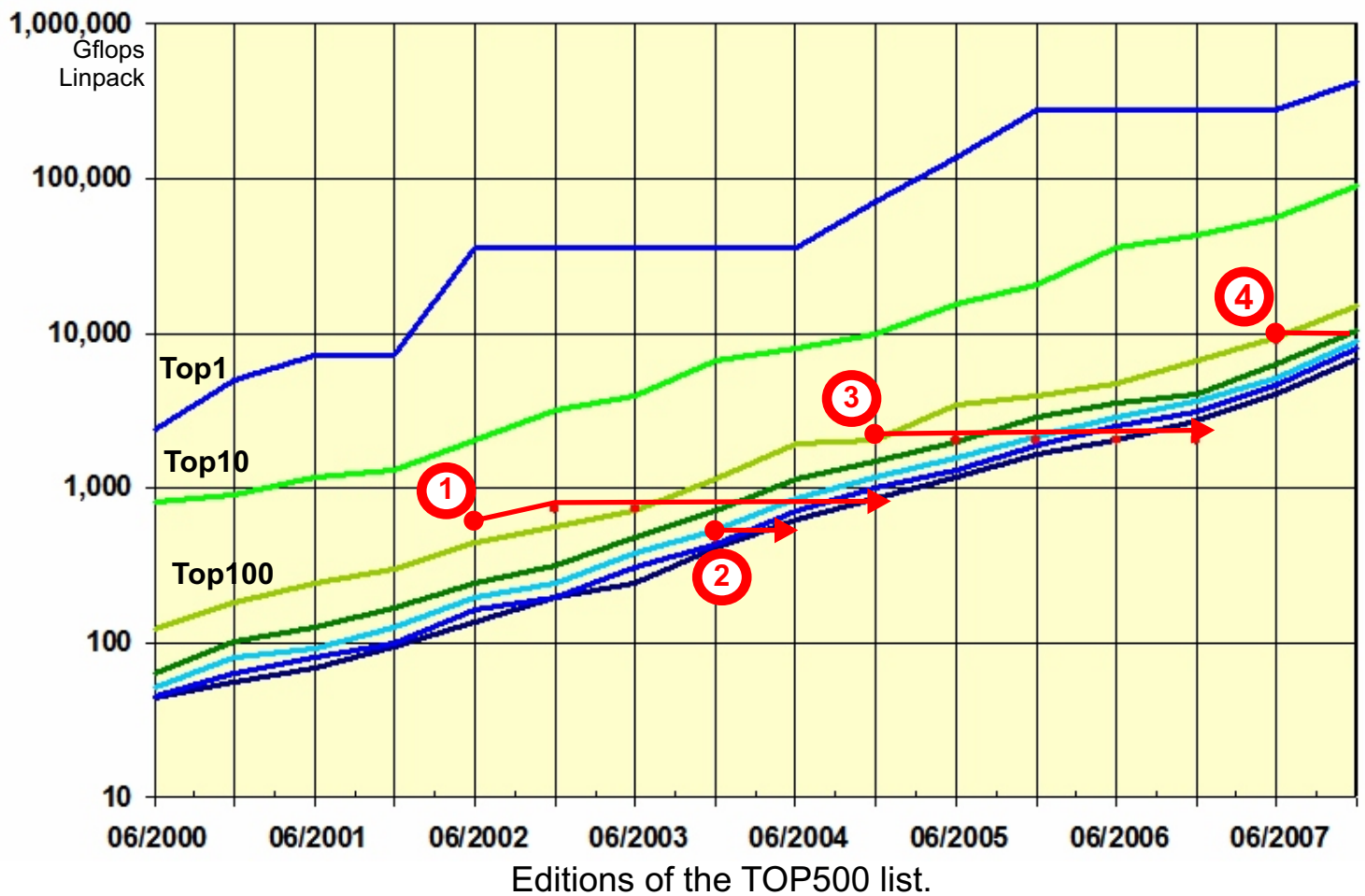


Russian Academy of Sciences Program Systems Institute

Supercomputers of domestic development in the TOP500 list

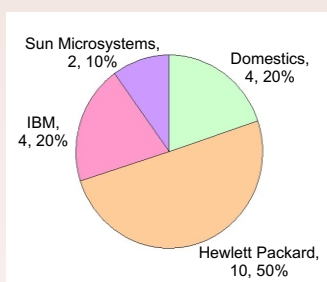
Over the whole history of the global Top500 project only 4 domestic supercomputers have been ranked in the list:

- 1** MVS1000M 534 → 734 Gflops
Kvant Research Institute,
JSCC (Joint Supercomputing Center of
Russia), KIAM RAS (M.V.Keldysh
Institute of Applied Mathematics)
- 2** SKIF K-500 472 Gflops
OIPI NAN (United Institute of Informatics
Problems of the National Academy of
Sciences of Belarus), Computer Research
Institute "NII EVM", T-Platforms; PSI of RAS;
- 3** SKIF K-1000 2032 Gflops
OIPI NAN (United Institute of
Informatics Problems of the National
Academy of Sciences of Belarus),
Computer Research Institute "NII EVM";
T-Platforms, PSI of RAS
- 4** СКИФ Cyberia 9019 Gflops
T-Platforms



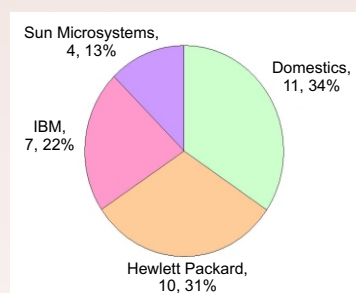
Supercomputers of domestic development in the TOP500 list

Location, system, the year of development	Developer	Top500 edition (position)	Performance Linpack/Peak= Coefficient of efficiency
Tomsk State University, SKIF-Cyberia, 2007	T-Platforms	06/2007 (105)	9 019 / 12 002 = 75.1%
JSCC (Joint Supercomputing Center of Russia) MVS-15000BM, 2005	IBM	06/2007 (187)	6 645 / 10 102 = 65.8%
		11/2006 (99)	
		06/2006 (70)	
		11/2005 (68)	
		06/2005 (56)	
JSCC (Joint Supercomputing Center of Russia) Cluster Platform 3000 BL460c, 2007	Hewlett-Packard	06/2007 (265)	5 741 / 7 680 = 74.8%
Logistic Services (F) Cluster Platform 3000 BL460, 2007	Hewlett-Packard	06/2007 (294)	5 242 / 8 064 = 65.0%
MIPT, Cluster Platform 3000 DL140G3, 2007	Hewlett-Packard	06/2007 (415)	4 526 / 6 528 = 69.3%
Sberbank (Savings Bank of the Russian Federation), SuperDome, 2001	Hewlett-Packard	11/2006 (407)	3 059 / 5 772 = 53.0%
		06/2005 (474)	1 204 / 2 128 = 56.6%
		11/2004 (500)	850.6 / 1 456 = 58.4%
		11/2003 (394)	438.6 / 768 = 57.1%
		06/2003 (355)	345 / 576 = 59.9%
		11/2001 (365)	109.1 / 158.4 = 68.9%
United Institute of Informatics Problems of the National Academy of Sciences of Belarus OIPI NAN, SKIF K-1000, 2004	SKIF	06/2006 (489)	2 032 / 2 534.4 = 80.2%
		11/2005 (331)	
		06/2005 (174)	
		11/2004 (98)	
JSCC (Joint Supercomputing Center of Russia) CP6000, 2005	Hewlett-Packard	06/2005 (405)	1 293 / 1 536 = 84.2%
JSCC (Joint Supercomputing Center of Russia) MVS-5000BM, 2004	IBM	11/2004 (209)	1 401 / 2 112 = 66.3%
		06/2004 (398)	722.1 / 1 075.2 = 67.2%
JSCC (Joint Supercomputing Center of Russia) MVS1000M, 2002	Self-made (Kvant Research Institute, JSCC, KIAM RAS - M.V.Keldysh Institute of Applied Mathematics)	06/2004 (391)	734.6 / 1 024 = 71.7%
		11/2003 (189)	
		06/2003 (95)	
		11/2002 (74)	
		06/2002 (64)	
OIPI NAN of Belarus, SKIF K-500, 2003	SKIF	11/2003 (405)	423.6 / 716.8 = 59.1%
National Reserve Bank HPC 10000, 1997	Sun Microsystems	11/1998 (418)	20.3 / 24 = 84.6%
		06/1998 (251)	
		11/1997 (157)	
		06/1997 (155)	



Ranked on Top500 (number of purchases of systems and their upgrades):

- domestic supercomputers 4 purchases
- Hewlett-Packard supercomputers bought into Russia 10 purchases
- IBM supercomputers bought into Russia 4 purchases
- Sun Microsystems supercomputers bought into Russia 2 purchases



Number of times they have been ranked on Top500:

- domestic supercomputers - 11 times
- Hewlett-Packard supercomputers bought into Russia - 10 times
- IBM supercomputers bought into Russia - 7 times
- Sun Microsystems supercomputers bought into Russia - 4 times
- Microsystems — 4 раза