

The Unix cluster at the BLTP continued to grow. There were added workstation Sun Blade 1000 based on 2 CPU UltraSPARC III running at 750 MHz. Workstation also features 1.5 GB RAM and 36 GB Fibre Channel hard disk. Two more servers operating under Linux were installed. The first (hostname 'unamp') is equipped with two processors Athlon MP 1.2 GHz and 1 GB DDR RAM and the second (hostname 'up4m') is equipped with two processors Pentium 4 Xeon and 2 GB RDRAM. Software for this two computers includes such principal tools as Fortran, C, C ++, Reduce, Form and Mathematica. Server 'unamp' is also hosting license manager providing up to 30 network licenses for Mathematica for Windows running on PC at JINR. With the financial support of RFBR a new server th-proxy.jinr.ru was installed. It was configured as a proxy WWW server and as a file-server with 140 GB storage space located on RAID-5 disk array.

Older servers were subjected to hardware and software upgrades. Installation of new hard disks at the main BLTP's computer thsun1.jinr.ru allowed increasing the user disk space two-fold and speeding up the read/write operations. The user disk space on the file server TFS was doubled too. The system software and many applications were renewed on the Unix cluster. Most recent Sun's computers are running Solaris 9 now, older ones are running Solaris 8.

To improve administration of large and heterogeneous UNIX cluster at the BLTP, a new protocol LDAP over SSL was introduced. This protocol allows all servers to identify users taking information from single database.

The installation of the UTP cabling system was completed in the year of 2002. The new cabling system provides at least two Fast Ethernet connections for each office at BLTP. The central stack of network switches in BLTP was extended up to 200 ports. Migration to Fast Ethernet on workplaces was continued. About 140 PC and servers at BLTP were connected to the new networking equipment by the end of 2002. In 2001 – 2002 it was acquired and installed 25 PCs based on Pentium-III and 23 PCs based on Pentium 4.

To improve the local network management and for user convenience, the protocol DHCP was introduced. The DHCP server allows centralized settings of networking parameters of personal computers and other equipment.