JvNCnet

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Description

JvNCnet is a North East Research Regional Network, with access to the NSFnet backbone (JvNC is a node on the backbone), and with international connections to several Scandinavian countries (Norway, Finland, Iceland, Sweden and Denmark), and the United Kingdom.

The regional network, the first T-1 (1.544 Mbps) academic network evolved from the thirteen consortium members (see below) to a regional network with twenty three sites concentrated in the North East. The network is now undergoing a transformation into the Phase II of JvNCnet. This is a project funded by the National Science Foundation (Division of Networking, Communications Research and Infrastructure) and the institution members. Currently the JvNCnet network carries approximately seventy percent of the traffic volume that the NSFnet backbone network carries. In April 1989, JvNCnet passed its 1 billionth packet. The reliability of the network is approximately 97% uptime.

The regional network will consist (when completely re-designed in Summer 1989) of a ring of T-1 lines connecting the cities of Trenton (NJ), Newark (NJ) , New York City (NY), Stamford (CT), Boston (MA), Providence (RI), and Philadelphia (PA). Each city will have a backbone node (BNS) connecting a number of institutions at T-1 or 56kbps.

The institutions presently on the network are: Princeton U., Institute for Advanced Study, Siemens Research, Squibb & Sons, Rutgers U., Stevens Institute, Montclair State, NJIT, UMDNJ, Yale, Wesleyan, MIT, Brown, Northeastern, MIT, Penn State, University of Pennsylvania, New York University, Columbia, ATT, Bellcore, University of Arizona, Dartmouth and University of Massachusetts (Amherst). The institutions scheduled for connection are American Mathematics Society and University of Rhode Island.

The network is managed by the John von Neumann National Supercomputer Center in Princeton, N.J. The network is operated twenty four hours a day seven days a week. The Network Staff of JvNCnet is organized in four groups. These are (i) Network Information Services Group, (ii) Network Operations Center Group, (iii) Network Engineering Group and (iv) Network Installation and Maintenance Group.

In addition to the Networking effort, JvNC is one of the five National Supercomputer Centers sponsored by the National Science Foundation Supercomputer Program. JvNC has two liquid nitrogen cooled ETA10s (one is a 4 processor and the other an 8 processor) and two Cyber 205s supercomputers. To front end these supercomputers, JvNC has four VAX8600s, two running VMS and two running ULTRIX. A graphic and animation facility is also available to the JvNC supercomputer users. The Operations Deparment of JvNC is responsible for the operations of all supercomputers and front ends.

Network Access

Network access is provided over the JvNCnet Regional network or directly by accessing JvNC over the NSFnet, or International connections. For non-IP users, JvNC supports a gateway to TELENET (for supercomputer users only), Bitnet and dial-in modems (at 1200 baud, 2400 baud and 9600 baud).

Miscellaneous Information

The John von Neumann National Supercomputer Center is managed by the Consortium for Scientific Computing (CSC). CSC is a not-for-profit-organization of thirteen universities. The members are: Harvard University, Massachussetts Institute of Technology, Princeton University, Rutgers University, Brown University, Institute for Advanced Study, University of Rochester, Columbia University, New York University, Penn State University, University of Pennsylvania, University of Colorado, and University of Arizona.

For more information on the JvNCnet Regional Network, contact the JvNCnet Network Coordinator at ‘‘nisc@nisc.jvnc.net’’ or by phone at (609) 520-2000.

For more information on the Supercomputer facilities please contact Vercell Vance, Director for User Services at vance@jvnca.csc.org or by phone at (609) 520-2000.