Energy Services Network (ESnet)

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Description

ESnet is a computer data communications network managed and funded by the Department of Energy Office of Energy Research (DOE/OER) for the purpose of supporting open scientific research in multiple programs. ESnet is intended to facilitate access to resources at ER scientific facilities, to provide for information dissemination among scientific collaborators throughout all ER programs, and to provide widespread access to existing supercomputer facilities via remote login, electronic mail, file transfer, and related utilities.

ESnet is installed and operated by the National Energy Supercomputer Center (NERSC), formerly known as the National Magnetic Fusion Energy Computer Center (NMFECC), which is located at Lawrence Livermore National Laboratory (LLNL) in California. ESnet policy is guided by the ESnet Steering Committee, appointed by the DOE Office of Scientific Computing, with representatives from each of the Energy Research Programs. The ESnet program plan, prepared by this committee, is available from the National Technical Information Service as report DOE/ER-0341 (June 1987).

The ESnet backbone consists of largely of T1 links (1.544 megabit per second) interconnecting nineteen sites in the United States. Network access to Europe and Japan is also supplied in collaboration with foreign research facilities. ESnet will also provide backbone capabilties to the Magnetic Fusion Energy Network (MFEnet) and the High Energy Physics Network (HEPnet) communities.

In terms of protocols, ESnet supports TCP/IP and Digital Equipment Corporation's DECnet. ESnet will support X.25 and the OSI protocols as they become available from vendors.

Network Access:

ESnet is not available for use by the general public, nor is it intended to compete with comparable commercial network services. ESnet is available for access by researchers, facilities, and groups participating in or collaborating with Office of Energy Research (OER)-sponsored activities. NERSC provides user services for ESnet.

Miscellaneous Information

For more information contact:

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