

## National Energy Research Supercomputer Center

**Address:**

National Energy Research Supercomputer Center  
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**Description**

The NERSC provides state-of-the-art computational, network, and file storage resources including four Cray supercomputers—a Cray XMP-22, a Cray-2 4/64, a Cray-2 4/128, and a Cray-2 8/128. All four Crays use the CTSS time-share operating system. This system also currently provides more than 150 UNIX utilities and is becoming POSIX compliant. The center operates twenty-four hours a day, seven days a week.

Archival storage includes an online fully automated storage system with 200 gigabytes of high-speed disk storage, and a magnetic tape cartridge system with a total of 3.6 terabytes of slower access storage. The slowest accesses are still under three minutes.

An online information retrieval system is provided, offering more than 23,000 pages of documentation on use of the center. Printed hardcopy of all information is also available to all users. The BUFFER is published as a monthly newsletter. Short notes in the form of printed summaries are available. Electronic bulletin boards are available for information about specialized topic areas. A NEWS capability is provided for daily or short-term information. Several consultants are available during normal working hours for individual help.

**Network Access**

The NERSC supports TCP/IP access and limited (interactive only) DECnet network access in addition to its own "NSP" protocol suite. Access is available through ESnet, the Internet, the Energy Sciences DECnet, Bitnet for electronic mail, TYMNET, and via dial-up modems.

The NERSC also operates ESnet, a T1-based backbone network supporting both IP and DECnet.

**Who Can Use The Center**

The NERSC provides computational resources to researchers and collaborators sponsored by the Department of Energy, Office of Energy Research. Access to resources is provided through a DOE allocation. For information about applying contact JoAnne Revelli at revelli%nersc@nersc.gov or (415) 422-4228, or Anita Winfield at winfield%nersc@nersc.gov or (415) 422-4022.

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