.

INTERNET RESOURCE GUIDE

NSF Network Service Center (NNSC)
BBN Systems and Technologies
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Cambridge, MA 02138

nnsc@nnsc.nsf.net

Copyright Notice

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November 11, 1992

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Introduction

The growth of National Science Foundation Network (NSFNET) in the last few years has brought the benefits of networking to researchers at hundreds of academic, government and industrial sites. Network users have improved access to research tools, and there are greater possibilities for collaboration among members of the research community. But in order to take maximum advantage of more widespread and improved connectivity, users have to be aware of the resources that are available to them.

When the NSF Network Service Center (NNSC) began to publish the "Internet Resource Guide" in 1989, our goal was to increase the visibility of the resources that are accessible via NSFNET and other parts of the Internet. We have depended on the population of resource providers on the Internet to furnish us with the information for the guide.

We have just finished an extensive update of many of the entries to the Internet Resource Guide. We hope that this new November 1992 edition of the printed version of the guide will inspire its readers, many of whom surely maintain resources we haven't yet mentioned, to submit descriptions of their resources for the guide.

If you wish to submit a new entry to the Internet Resource Guide, send a message to "resource-guide@nnsc.nsf.net", and we will send you a template and instructions for preparing your entry.

How to Use and Maintain This Guide...

Using the Guide...

The Internet Resource Guide is intended to help Internet users learn what services on the network are available to them.

Each service is listed in a separate section, which

describes the resource, explains who can use the resource, how the network is reached via the Internet and lists contacts for more information.

To assist users trying to find a particular type of resource, similar resources are grouped into chapters. For example, Chapter 1 lists all the special computing resources

on the Internet, including supercomputer centers and centers for parallel computing. Thus, users interested in finding a supercomputer to work on can browse through the sections in Chapter 1, in search of a supercomputer center that can accomodate their needs. Users interested in locating a particular service can check the tables of contents at the start of each chapter.

The resource guide is indexed in WAIS (the Wide Area Information Server system), which can be accessed on quake.think.com, nnsc.nsf.net, and many other Internet host computers. Telnet to the host computer, and login as "wais".

Maintaining the Guide...

The resource guide is designed to be kept in a loose-leaf notebook, to make it easy to add or replace sections of text. Users can add new sections to their collection, or replace the existing sections, with updated entries. The guide is also designed to be stored on a host computer, with each section in a separate file.

The guide is distributed electronically by the NNSC. To get on one or more of the distribution lists for the guide, send a note to "resource-guide-request@nnsc.nsf.net".

- The "text" list receives a Text (ASCII) copy of each new or updated entry in an email message.

- The "PostScript" list receives a Postscript copy of each new o updated entry in an email message.

- The "ftp" list receives announcements of new or updated entries that are available for anonymous ftp on nnsc.nsf.net.

Please specify which list or lists you prefer. (The text in both the Text and PostScript versions is the same; the Postscript version is generally easier to read, but it cannot be read on-line or searched by computer, unless you have

a computer uses PostScript for its screen display.)

For More Information...

For more information about the Internet Resource Guide, including instructions for obtaining the guide by anonymous ftp, send a message to "info-server@nnsc.nsf.net", with the

following text in the body of the message:

```
request: resource-guide
topic: overview
topic: readme
request: end
```

You will receive automatic replies by email.

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Table of Contents

Chapter 1: Computational Resources

Chapter 2: Library Catalogs

Chapter 3: Archives

Chapter 4: White Pages

Chapter 5: Networks

Chapter 6: Network Information Centers

Chapter M: Miscellaneous

Chapter 1: Computational Resources

This section lists computational resources on the Internet. These are centers or particular machines that serve users with special computing requirements. A good example of such a resource is a supercomputer center.

Contents

1.1 The Air Force Supercomputer Center at Kirtland AFB, New Mexico [Jun89]

1.2 Cornell Theory Center, Cornell National Supercomputer Facility [Aug92]

1.3 [Discontinued] John von Neumann National Supercomputer Center [Jun92]

1.4 NCAR - National Center For Atmospheric Research [Oct92]

1.5 National Center for Supercomputing Applications [Jun89]

1.6 National Energy Research Supercomputer Center [Aug90]

1.7 NPAC - Northeast Parallel Architectures Center [Jun89]

1.8 OSC - Ohio Supercomputer Center [Sep92]

1.9 PSC - The Pittsburgh Supercomputing Center [Feb92]

1.10 SDSC - San Diego Supercomputer Center [Jun89]

1.11 BRL - US Army Research Laboratory (Ballistic Research Lab) [Aug92]

1.12 Information Systems and Technology, University of California, Berkeley [Sep92]

1.13 SuperComputing Services, The University of Calgary [Sep89]

1.14 CERPASS - Center for Experimental Research in Parallel Algorithms, Software and Systems [Oct89]

1.15 CHPC - University of Texas System High Performance Computing [Sep92]

1.16 NCSC - North Carolina Supercomputing Center [Aug92]

1.17 Arizona State University Supercomputing Services [Jan91]

1.18 UCLA Office of Academic Computing [Mar90]

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The Air Force Supercomputer Center at Kirtland AFB, New Mexico
(AFSCC-K)

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Air Force Supercomputer Center, Kirtland
User Services Group
General Atomics
AFWL/SCI

Kirtland AFB, NM 87117-6008

_BSE-_BSm_BSa_BSi_BSl: consulting@ddnvx1.afwl.af.mil

_BSP_BSh_BSo_BSn_BSe: (505) 844-0831, (AV) 244-0831

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Our mission at AFSCC-K is to support and promote the use of supercomputing throughout the Air Force. To this end, we will provide the most modern supercomputers and auxiliary computing equipment to our users, wherever they may be. Access to our computers is available either locally at Kirtland AFB or remotely, through high-speed data communication networks. In addition, we will provide training in supercomputing to users and potential users both at Kirtland and at remote sites.

Facilities at AFSCC-K include the following systems:

- Cray-2: 4 CPUS, each capable of 488 Mflops peak speed, 256 MW common memory, 24.4 GB of local disk space, CTSS operating system with UNIX utilities running under CTSS.

- Cray-1/S: 1 CPU capable of 160 Mflops peak speed, 4 MW memory, 4.8 GB local disk space, CTSS operating system

- Common File System (CFS): Controlled by dedicated IBM 4381 computers, it offers 120 GB of online disk storage and unlimited offline tape storage.

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- SEQUENT BALANCE 21000: 16 32-bit processors, 24 MB memory, 1 GB disk space, UNIX 4.2 operating system.

- Graphics Output Devices: the center has support for laser printers (240 dot per inch resolution) and high-resolution file output devices.

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The center is accessible via the Internet.

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Any organization working under a government contract may use the computing facilities at AFSCC-K. The governmental organization overseeing the contract must provide the funding and management for the computer accounts. To establish an account, have your government project officer contact the Computer Accounting Branch of the Applications Division (SCPR) at the following address:

WL/SCPR
Kirtland AFB, NM 87117-6008
(505) 846-5354
(AV) 246-5354

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Telephone consulting is available Monday through Friday from 0730 to 1700 Mountain time: (505) 844-0831, (AV) 244-0831. Multiple telephone lines help insure access to the consultants without delays.

Training programs both on and off-site are also available. Contact Mr. Roger Perkins at (505) 844-5722 or (AV) 244-5722 for more information.

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Cornell Theory Center, Cornell National Supercomputer Facility

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Cornell University
Engineering and Theory Center Building
Ithaca, NY, USA 14853-3801

_BSE_BSm_BSa_BSi_BSl: consult@eagle.tc.cornell.edu

_BSP_BSh_BSo_BSn_BSe: (607) 254-8686

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The Cornell Theory Center at Cornell University is one of four National Advanced Scientific Computing Centers supported by the National Science Foundation. The Theory Center's resources have been used by more than 5,000 researchers in fields as diverse as aerospace engineering, economics, and epidemiology. Its staff offers technical expertise in software, visualization, vectorization, and parallel processing to its users, and investigates new, highly parallel processing resources for the scientific community in order to increase the usability of these computers through systems development and through examination of techniques to improve performance. A variety of education and training programs are also offered to high school, undergraduate, and graduate students, and their professors.

The Theory Center, through its Cornell National Supercomputer Facility (CNSF), provides a world-class supercomputing environment that includes traditional vector-scalar supercomputing resources, in addition to scalable, parallel systems. Theory Center resources were recently upgraded to include a single six-way IBM ES/9000-900 supercomputer (with 2.66 Gflops peak aggregate performance, 9 Gbytes shared memory). An important feature for many users who now access 1 Gbyte of virtual memory is that each user process may access up to 2 Gbytes of virtual memory on the ES/9000. Parallel resources at the Theory Center include a 32-processor KSR1, the 32-processor Parallel Visualization Server (PVS) and a Scalable Cluster of RISC Systems. The

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KSR1 is a scalable parallel system manufactured by Kendall Square Research and offers 1.28 Gflops peak aggregate performance, and a 1 Gbyte shared memory and 1000 Gbyte address space per processor.

The Theory Center is a national center of expertise for IBM's PVS and the visual programming interface Data Explorer (DX). The PVS is a parallel computer that implements DX across 32 processors using a large global memory, and performing up to 2.5 Gflops. This processing speed combined with the portable, user-friendly DX software allows an enor-

mous range of performance levels with no change in function for the user. The same DX is available, for example, on the Center's Scalable Cluster of RISC Systems (SCRS), which consists of multiple RS/6000 workstations connected via high speed networking.

This RISC Cluster is being used for multiprocessing and parallel computing. The cluster presently consists of eight model 550s, each with at least 128Mb of memory and all running AFS (Andrew File System). PVM is available to affect a message- passing parallelism. For those with X-capable devices, the Center has a PVM workbench to facilitate use of the cluster. Express will also be available in the near future.

In addition to the production operating environments, full support for communications across the NSFNET is provided via TCP/IP. Interprocess communications, including remote logins, FTP file transfer, and X Window System, are supported. FORTRAN is the primary language, and is supported in scalar, vector, and parallel modes, with interactive debug and execution analysis. Scientific subroutine libraries are available, including vectorized and parallelized versions. Online HELP facilities, UNIX man pages, and a Cornell set of TUTOR examples assist users. Graphics software supports both local hardware and remote facilities. Several well-known application packages and a list of software are available upon request.

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The Theory Center's resources can be reached via the Internet (supporting remote login, file transfer, electronic mail, and graphics). Users can access the CNSF via direct dialups: 607-255-4141 provides 300, 1200, and 2400 baud service; 607-254-5454 provides 9600 baud service.

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All proposals for time on the Theory Center's resources are subject to peer review through the Theory Center's National Allocations Committee; researchers must submit an application for supercomputer time directly to the Theory Center. Corporations interested in using the Theory Center through the Center's Corporate Research Institute may contact Linda Callahan at the address and phone number above.

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[Discontinued] John von Neumann National Supercomputer Center

The John von Neumann National Supercomputer Center is no longer in operation.

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NCAR - National Center For Atmospheric Research

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Visitor/User Information
NCAR/Scientific Computing Division
P.O. Box 3000
Boulder, Colorado 80307-3000

_BSE_BSm_BSa_BSi_BSl: scdinfo@ncar.ucar.edu

_BSP_BSh_BSo_BSn_BSe: (303) 497-1225

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Scientific Computing Division (SCD) of the National Center for Atmospheric Research (NCAR) provides supercomputing resources and services that support research in the atmospheric, oceanographic, and related sciences. We emphasize facilities for the development and execution of large models and for the archival and manipulation of large datasets.

Computer Hardware

- oBS+ CRAY Y-MP8/864 with 8 processors; CRAY Y-MP2D with 2 processors
- oBS+ 64 Mwords of main memory for the Y-MP8, 16 Mwords for the Y-MP2
- oBS+ 48 Mword maximum memory per job for batch; 16 Mwords for interactive
- oBS+ 6.0-ns clock for both Crays; a measured peak rate of over 1 Gflops has been achieved with a multitasked ocean model
- oBS+ Vector processing hardware for both Crays

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- oBS+ 256 Mword SSD for Y-MP8 (1000 Mbyte/sec channel), 128 Mword SSD for Y-MP2
- oBS+ 78 Gbytes of local storage for the Y-MP8, 20 Gbytes of local storage for the Y-MP2
- oBS+ Unix front end
- oBS+ NCAR Mass Storage System (MSS) is a hierarchical file storage system with no limit per user. The MSS has a 120 Gbyte disk farm and 115,000 IBM 3480/3490 cartridges. It features a StorageTek 4400 Automated Car-

tridge System capable of holding 6,000 cartridges, or a terabyte of information. Currently, MSS stores 29 terabytes of data. Extremely high data transfer to the Crays; accessible from front end

- Connection Machine 2 (8,000 processors and floating-point hardware)

- Gateway for NCAR's Internet Remote Job Entry System (IRJE). Allows users to create and submit Cray jobs from their local hosts connected to the Internet. Output is automatically shipped back to the remote host

Application Libraries

Application libraries and documentation are available via the Distributed Software Libraries (dsl) utility. To access dsl, telnet to dsl.ucar.edu and log in as dsl. When prompted for the password, type software.

ALFPACK	AMOSLIB*	ECMFFT	EDA
EISPACK	EISPKD	FISHPAK	FITPACK*
FUNPACK	IMSL*	CRAYFISH*	LINPACK
FFTPACK	MINPACK	MUDPACK*	NAG*
ODEPACK	SPHERE	SLATEC	SSDLIN
STARPAC*	NCARM	NCARO	

*Documentation only available for these libraries over the dsl utility.

Graphics

NCAR Graphics, Version 3.1

Training

- UNICOS Orientation Class: One-day class to introduce Unix/UNICOS programming tools and the NCAR computing environment.

- Unix Basics Class: Two-day introduction to the basics of Unix

- Remote site visits are granted to sites with a significant number of users

- User conference held every two years to update users

on new developments and new directions in computing at NCAR

- Site liaison workshops held biennially: intensive, in-depth presentations on specific aspects of the NCAR computing facility

- NCAR Graphics on and off-site workshops and Fortran optimization workshops

Collaborative Research

- Real-time computing during field programs

- Classroom grants of computer time

- Computer Hardware, Advanced Mathematics, and Model

- Model Evaluation Consortium for Climate Assessment (MECCA). MECCA is evaluating the reliability of current global climate simulation models.

Documentation

- Documentation available via anonymous FTP to ftp.ucar.edu. Listing is in /docs/README file.

- User Documentation Catalog containing references both to SCD-supported and vendor documentation. Available online via anonymous FTP to ftp.ucar.edu with the filename /docs/catalog/userdoc.catalog

- Online documentation available for most of the

utilities in the supported libraries via dsl

- Scientific Computing Division (SCD) hardcopy documentation available free except for the Graphics manual

- NCAR UNICOS Primer: contains necessary basic information to begin computing at NCAR. Uses step- by-step examples to create, submit, and receive output from the Crays

- Daily Bulletin: Online source of up-to-date information on the computing systems

- Newsletter: SCD Computing News (free)

- Annual planning report: Supercomputing: The View From NCAR
- NCAR Annual Report
- NCAR Annual Scientific Report

Consulting

- Phone, 8-5 MST weekdays; walk-in consulting available for visitors and local users. Extended consulting available by appointment
- Email consulting available from Internet, BITNET, and Omnet
- Specialized consulting for software libraries, networking and data communications, optimization, multitasking, Cray I/O optimization, segmentation (overlaying) of large applications, math algorithms, NCAR Graphics, IBM PC/AT and Macintosh terminal emulators, and Unix and UNICOS operating systems
- Visitor facilities include access 24 hrs/day, 7 days/week, SUN Workstations, IBM PCs, and Macintoshes for terminal or standalone use, Canon microfilm/fiche reader/printers, community telephone for business use, documentation library (including vendor documentation)

Graphics Support

- Text and Graphics System for both on-site and off-site users, providing 16-mm film, 35-mm color slides, 4x5" color film, microfiche, b&w hardcopy, and videotape (VHS, SVHS, Umatic-SP).
- Xerox 4050 laser printers for paper graphical output
- Color hardcopy output is planned soon
- CGM metafile support
- Remote graphics support includes an NCAR Graphics translator (ctrans) on the front end
- Output mailed to users at remote sites

Strengths and Limitations

Strengths

- High-performance vector processing
- Extensive user support services
- SSD for large I/O applications
- Extensive data archives for atmospheric and oceanographic research
- High-volume, fast access mass storage system
- Extremely high volume graphics output capabilities
- Video support and 16-mm movie making
- Remote job entry system

Limitations

- Few applications outside atmospheric sciences
- Limited memory

Administrative

- Allocations are open to university researchers with NSF grants in atmospheric, oceanographic, and related sciences; grant requests are reviewed by a peer review board composed of NCAR staff and university researchers
- Allocations are also available to government agencies on a cost-recovery basis

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NCAR has access to several national networks using the TCP/IP protocol, including NSFNET (backbone node) and NASA's Science Network.

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SCD's computing resources are available to scientists and researchers with NSF projects in the atmospheric, oceanographic, and related sciences. Accounts must be approved through SCD. Once approved, resources are allocated. Time on the Y-MP8/864 is available to government agencies on a cost-recovery basis. Users with NSF grants should contact John Adams, NCAR/SCD, P.O. Box 3000, Boulder CO 80303, for an application form.

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National Center for Supercomputing Applications

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
National Center for Supercomputing Applications
152 Computing Applications Building
605 E. Springfield Ave.
Champaign, Il. 61820

_BSE-_BSm_BSa_BSi_BSl: consult@ncsaa.ncsa.uiuc.edu

_BSP_BSh_BSo_BSn_BSe: (217) 244-0072

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The National Center for Supercomputing Applications is located at the University of Illinois in Champaign, Illinois. Funding is provided by the National Science Foundation, the University of Illinois, the State of Illinois and Industrial Partners of the center. Grants and equipment loans from major computer vendors enhance the resources of NCSA and foster new research and development programs. The Interdisciplinary Center (IRC) is a ``think tank'' for researchers using NCSA equipment.

NCSA offers these resources:

- CRAY X-MP/48 with a 128 Mword SSD running the UNICOS operating system. The clock speed is 8.5 nsec.

- CRAY-2S/4-128 running the UNICOS operating system. The clock speed is 4.1 nsec and the static memory speed is 45 nsec

  parallel processing is available on both CRAY systems.

- Common File System (CFS) from Los Alamos running on an Amdahl 5860

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- DEC VAX 11/785 cluster running VMS as front-ends for file transfer, tape handling and electronic mail and notesfile conferencing

- Workstations for visitors including IBM PC/ATs, Apple Macintosh, Sun systems, DEC VAXstations, and Silicon Graphics IRIS systems

NCSA offers these services:

- systems consultants, applications specialists, and research scientists in various disciplines to assist researchers

- visitors program to allow researchers to come and work in an intensive manner and interact with NCSA

staff

- training via monthly training sessions, summer institutes, outreach visits and various workshops and conferences

- strategic users program for researchers interested in partnership with NCSA to help the general research community

- publications including two center newsletters, a technical resources catalog, and reference materials on all of NCSA's systems

- documentation and reference materials on all of NCSA's systems

- workstation software developed at NCSA including telnet software and graphics tools

- scientific visualization program to carry out research and work with academic and industrial researchers to visualize data

- output in the form of photographic prints and slides, and videotapes

- Affiliates program to train support personnel at academic institutions, scientific institutes and government agencies - there are over 80 affiliate institutions.

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NCSA facilities are accessible via:

- Internet networks (NSFnet and ARPAnet) for file transfer, electronic mail and interactive access

- direct dial up to 9600 BAUD

- BITNET for file transfer and electronic mail

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Any academic researcher may apply for time to use the center. All requests are peer reviewed monthly for allocations under 100 hours and quarterly for allocations of 100

or more hours. Industrial partnership programs are also available.

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Further information can be obtained through the following contacts at NCSA or at the address above:

Main Receptionist	(217) 244-0072
Applying for time	(217) 244-0635
Consulting Office	(217) 244-1144
Academic Affiliates	(217) 244-2341
Industrial Affiliates	(217) 244-0474

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National Energy Research Supercomputer Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
National Energy Research Supercomputer Center
Lawrence Livermore National Laboratory
PO Box 5509 L-561
Livermore, CA 94550

_BSE_BSm_BSa_BSi_BSl: consultant@nersc.gov

_BSP_BSh_BSo_BSn_BSe: (415) 422-1544

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

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.

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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.

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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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NPAC - Northeast Parallel Architectures Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Northeast Parallel Architectures Center
111 College Place
Syracuse University
Syracuse, New York 13244-4100

_BSE-_BSm_BSa_BSi_BSl: npac@nova.npac.syr.edu

_BSP_BSh_BSo_BSn_BSe: (315) 443-1723

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Northeast Parallel Architectures Center, under contract to RADC with funding from DARPA, promotes and explores advanced computing technology by providing parallel architectures and research support to university, corporate and government researchers nationwide.

NPAC provides a focal point for:

- testing existing parallel architectures
- developing new machines and software tools
- providing the local and national research community with a rich environment in which to explore and utilize large scale parallel computers
- conducting applied research which requires parallel machines

NPAC currently offers:

- two Connection Machines from Thinking Machines Corporation: a CM1 and a CM2 with 2 framebuffer graphic display systems; two 5 gigabyte Data Vault storage systems; and a VAX 8800 and 2 Symbolics front-ends.

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- two Encore Computer Corporation Multimax computer: an 16 processor (XPC) Model 520 running Umax and a 20 processor (APC) Model 320 running Mach.
- an Alliant Computer Systems Corporation FX/80
- a Stellar Graphics Supercomputer Model GS1000

NPAC also offers a variety of support services including research consultation, training programs, documentation, a newsletter, and reference materials.

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All systems are accessible via the Internet

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The computing resources at the Center are made available to academic, government and corporate researchers upon submission of a project request. Information about the Center and the Resource Allocation Process are available through the telephone and electronic contact points listed above.

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OSC - Ohio Supercomputer Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Ohio Supercomputer Center
1224 Kinnear Road
Columbus, OH 43212

_BSE_BSm_BSa_BSi_BSl: oschelp@osc.edu

_BSP_BSh_BSo_BSn_BSe: (614) 292-9248

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Ohio Supercomputer Center (OSC) is a state-funded, shared supercomputer resource for researchers at Ohio colleges and universities. Commercial industry uses the CRAY on a cost-recovery basis. In September 1989 a CRAY Y-MP8/864 will be available to users.

The Ohio Supercomputer Graphics Project is a major component of the OSC's program. The Project has developed a graphics visualization toolkit, apE, for displaying and animating results of scientific computation on several supported workstations. This developing product is commercially available through the Center.

The Ohio Visualization Laboratory (OVL) houses hardware for visualizing scientific results of projects conducted on the CRAY. The OVL includes high-end (e.g., Abekas, Pixar, and Stellar) workstations and paper output devices; display equipment and software; and video equipment, including display, conversion, and animation storage facilities. Users generally come to the Laboratory to use equipment, although much equipment can be used over TCP/IP networks.

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Full login availability over Internet and the Ohio Academic Resources Network (OARnet). Jobs may also be submitted over Bitnet from VMS Cray Station Sites.

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSC_BSe_BSn_BSt_BSe_BSr

The Ohio Supercomputer Center is a state-funded resource for researchers at Ohio colleges and universities. OSC Visitors Program allows out-of-state researchers to use resources while visiting Ohio institutions. Commercial industry uses the CRAY Y-MP on a cost-recovery basis.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Charles F. Bender, Director (and Industry Contact)
Alison Brown, Associate Director for Scientific Development
Lawrence Cooper, Associate Director for Administration
(Grants and Allocations Contact)
Alvin E. Stutz, Associate Director for User Services

FF

PSC - The Pittsburgh Supercomputing Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Pittsburgh Supercomputing Center
Mellon Institute Building
4400 Fifth Avenue
Pittsburgh, PA 15213

_BSE_BSm_BSa_BSi_BSl: consult@a.psc.edu.sp

_BSP_BSh_BSo_BSn_BSe: (412) 268-4960

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Pittsburgh Supercomputing Center (PSC), one of the national centers established by the National Science Foundation, provides advanced supercomputer resources to the scientific and engineering research communities. PSC provides computing resources and support facilities for work in many branches of science. To date, it has supported work by over 1900 researchers at 375 institutions in 49 states, and the District of Columbia, representing virtually all fields of scientific and engineering endeavor.

The Center currently offers:

- a Cray Y-MP/832 supercomputer which features eight processing units sharing common memory of 32 million 64-bit words

- a Solid-state Storage Device (SSD) which will hold 128 million words and can transfer data at 156 Mwords per second on each of two parallel channels

- an IBM 4381-P21 with 30GB of disk storage for CFS, an archiving system

- a Connection Machine CM-2, with 32,768 processors and one gigabyte of memory

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- a DataVault with 10 gigabytes of high speed storage

- a Digital Equipment Corporation VAX, CMVAX, and two SUN 4470s, SUNA and SUNB, running Ultrix and Unix, as front ends to the CM-2

- two Digital Equipment Corporation VAXes running VMS as front ends to the Y-MP, CMVAX and SUNs

- two Digital Equipment Corporation VAXes running Ultrix as front ends to the Y-MP, CMVAX, and SUNs

- the Andrew File System, a distributed network file system, serving the Ultrix front ends and the CM front ends

- high-function engineering workstations, personal computers, and special-purpose graphics devices, such as a Silicon Graphics IRIS workstation, SUN Sparcstation, IBM RS6000, DECStation 5000, Canon CLC500 color copier/printer, and Postscript laser printers, and

- CGM-based animation system producing VHS tape and and videodisk animations, plus the ability to produce 35mm color slides using a Matrix Instruments SlideWriter.

The Center provides experienced user services and training in scientific research. Consultants are available to answer users' questions Monday through Saturday. The Center offers classes and workshops on different aspects of supercomputing, provides online and hardcopy documentation, produces a monthly newsletter and a technical bulletin, and annually publishes a booklet which highlights some of the scientific research done at the Center. The systems and software staff selects and installs new software and spearheads system development efforts.

_N_e_t_w_o_r_k _A_c_c_e_s_s

The center is on the Internet.

_W_h_o _C_a_n _U_s_e _T_h_e _C_e_n_t_e_r

Requests for supercomputing services may be made directly to the PSC.

FF

SDSC - San Diego Supercomputer Center

_A_d_d_r_e_s_s:
San Diego Supercomputer Center
PO Box 85608
San Diego, CA 92138-5608

_E-_m_a_i_l: consultant@sdsc.edu

_P_h_o_n_e: (619)534-5000

_D_e_s_c_r_i_p_t_i_o_n

The San Diego Supercomputer Center (SDSC) is one of five national supercomputer centers funded primarily by the National Science Foundation. Its mission is to provide supercomputer time to scientists and researchers around the country. SDSC is located on the campus of the University of California at San Diego and is administered by General Atomics. Major policy guidance comes from a steering committee representing the 25 SDSC consortium institutions, which include major California universities and all campuses of the University of California and the California State University.

Computer resources. SDSC offers access to

- A CRAY X-MP/48 supercomputer (peak speed 840 MFLOPS), running the Cray Time-Sharing System (CTSS) operating system and 120 UNIX utilities, with 8 million words of memory and 13.2 GBytes of local disk storage.

- An SCS-40 minisupercomputer (peak speed 44 MFLOPS), running CTSS, with 16 million words of memory, 16 million words of extended memory, and 4 GBytes of local disk storage.

- A Supertek S-1 minisupercomputer (peak speed 25 MFLOPS), running CTSS, with four million words of memory and 2.4 GBytes of local disk storage. (This machine is being used for system development and testing but will be made available to users at some point in the future.)

- A long-term file storage system (CFS) consisting of 60 Gbytes of disk storage and essentially infinite tape cartridge storage.

These systems are available 24 hours a day, 7 days a week, except during scheduled maintenance and system development. In 1988, these systems were available nearly 97% of the time.

Two printed manuals (An Introductory User Guide and Summaries) are mailed to all new users. Two-day introductory workshops are held approximately once per month on-site but

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are also available at your location with confirmed attendance of at least 20. Other sources of information include SDSC's monthly newsletter, Gather/Scatter, an annual report of science highlights, more than 130 online documents, and 40 electronic bulletin boards.

SDSC offers telephone and E-mail consulting 8:00 a.m.-5:00 p.m. (Pacific time) M-F at (619)534-5100.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

SDSC is on the Internet. It is also attached to SPAN, HEPnet, MFEnet and CSUnet.

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How to apply for time. 31,000 CPU hours each year are available for academic and industrial use. Most of the time is allocated at no charge to researchers on the basis of peer review by the SDSC Allocation Committee or by the SDSC consortium institutions. Allocations by the committee are made independent of institutional affiliation or funding source. The projects must be non-proprietary. Applications are accepted four times per year (for 12-month allocations) for time beginning 1 January, 1 April, 1 July, or 1 October. Applications must be received at least 45 days prior to the quarter in which you request your allocation to begin (e.g., the deadline is 15 February for time beginning 1 April). For more information, contact the SDSC consultants at (619)534-5100 and request the Overview brochure (which contains the application form).

A small fraction of time for allocation is available on a non-peer-reviewed basis to industrial cost-sharing participants. Such projects may be proprietary but must be unclassified. For more information, contact Bob Randall at (619)534-5060.

FF

BRL - US Army Research Laboratory (Ballistic Research Lab)

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Director
US Army Ballistic Research Laboratory
ATTN: Tom Crimmins
Aberdeen Proving Ground, MD 21005-5066

_BSE_BSm_BSa_BSi_BSl: crimmins@brl.mil

_BSP_BSh_BSo_BSn_BSe: (410) 278-6267, (DSN) 298-6267

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Ballistic Research Laboratory (BRL) has a long history of participation in the forefront of computing technology. At present, the BRL Super Computing Facility includes two High Speed Processors: a Cray X-MP4/8 operating in unclassified mode and a Cray-2 operating in classified. Both systems utilize the UNICOS 6.1.12 operating system and implement Cray's Network Queing System (NQS) for batch processing and Data Migration (DM) software.

The Cray X-MP/48 has four processors with an 8.5 nanosecond clock rate, 8 Million 64-bit words of main memory, and a 128 Million 64-bit word Solid State Disk (SSD) available to all through logical device caching and swap space. The clock rate enables the machine to operate in the range of 250 MFLOPS. There are approximately 40 Gigabytes of on-line mass storage, and interfaces to IBM 3480 and IBM 3420 magnetic tape devices. Available applications software include: DISSPLA; DISSPOP; IMSL; MPGS; BRLCAD; PICSURE; ABAQUS; LINDO; MSC/NASTRAN; MSC/DYNA; MSC/PISCES; and LQGALPH. Available compilers include: CFT; CF77; Pascal; and C. The Cray X-MP/48 is available 24 hours per day, 365 days per year; however, it is not attended during evening or midnight shifts on weekends or holidays.

The Cray-2 has four processors operating with a 4.1 nanosecond clock rate. This machine has 256 Million 64-bit

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words of main memory, and operates in the range of 500 Million Floating Point Operations per Second (MFLOPS). There are approximately 60 Gigabytes of on-line mass storage, and an interface to IBM 3480 magnetic tape and to a MASSTOR M860 robotic tape device. Available applications software include: DISPPLA; DISSPOP; IMSL; MPGS; BRLCAD; PICSURE; CADPAC; and GAMESS. Available compilers include: CFT; CF77; Pascal; SIMSCRIPT; and C. The Cray-2 is available and attended 24 hours a day, 7 days a week.

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The Cray X-MP is accessible via the Internet, and has dial-up accessibility. The Cray-2 occupies a node on the Defense Secure Network (DSNET), and has dial-up accessibility via Secure Telephone Units (STU-III).

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BRL resources are available to DOD Agencies and qualified Government Contractors.

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Further information about the Cray X-MP/48 is available by writing:

Director
US Army Ballistic Research Lab
ATTN: SLCBR-SE-A (Denice Brown)
Aberdeen Proving Ground, MD 21005-5066
or
Phoning (410) 278-6269, or sending electronic mail to
sys-admin-xmp.brl.mil (Internet)

Further information about the Cray-2 is available by writing:

Director,
US Army Ballistic Research Lab
ATTN: SLCBR-SE-A (Mark Williams)
Aberdeen Proving Ground, MD 21005-5066
or
Phoning (410) 278-6664, or sending electronic mail to
sys-admin-cray2.brl.mil (Internet)

FF

Information Systems and Technology
University of California, Berkeley

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Information Systems and Technology
Central Systems Consulting, 206 Evans Hall
University of California
Berkeley, California 94720

_BSE_BSm_BSa_BSi_BSl: consult@cmsa.berkeley.edu

_BSP_BSh_BSo_BSn_BSe: (510) 642-4072

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Information Systems and Technology (IST) provides computing services to the Berkeley campus and beyond, including the following supercomputing resources:

- oBS+ Cray X-MP running the UNICOS operating system. The Berkeley Cray has highly optimizing and vectorizing Fortran, C, and Pascal compilers; extensive mathematical and statistical subroutine libraries, including IMSL, NAG, and SCILIB; GKS graphics and the X Window System; and the UNICOS versions of the standard UNIX utilities.

- oBS+ IBM 3090 model 300E running the VM/XA SP operating system. The CMS system has many general purpose packages, such as BMDP, SAS, and SPSS-X for statistics, TELL-A-GRAF and DISSPLA for graphics, and the FOCUS database management system. It has a highly optimizing Fortran compiler as well as C, COBOL, PL/1, and Pascal compilers.

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These facilities are available via:

- oBS+ Internet networks for file transfer, electronic mail, and interactive access.

- oBS+ BITNET for file transfer and electronic mail.

- oBS+ Direct dial modems at 1200 and 2400 baud.

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Researchers affiliated with U.S. academic institutions are eligible to use these resources at "non-university" rates. For further information, please call IST's Computing Account and Revenue Services at (510) 642-0334.

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SuperComputing Services
The University of Calgary

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
SuperComputing Services
The University of Calgary
390 - 1620, 29th Street N.W.
Calgary, Alberta CANADA T2N 4L7

_BSE-_BSm_BSa_BSi_BSl: Super@UNCACDC.BITNET

_BSP_BSh_BSo_BSn_BSe: (403) 221-8900

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Supercomputing facilities for reservoir engineering, pipeline analysis, seismic data processing, finite element analysis, computational chemistry and other science and engineering applications.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The center is on NETNORTH (Bitnet) which can be reached via the Bitnet-Internet gateways.

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The resource is available to anyone. There is a varied rate structure according to affiliation (academic, government research, commercial)

Provincial government program to provide ``free time'' for commercial research and development projects to benefit Alberta economy.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Manager: Rod Wittig (403) 221-8900

Project Coordinators: Pat Comer (403) 221-8903, Doug Baker

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(403) 221-8904

FF

CERPASS - Center for Experimental Research in
Parallel Algorithms, Software and Systems

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
CERPASS
USC - Information Sciences Institute
4676 Admiralty Way
Marina del Rey, CA 90292-6695

_BSE-_BSm_BSa_BSi_BSl: cerpass@isi.edu

_BSP_BSh_BSo_BSn_BSe: (213) 822-1511

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Center for Experimental Research in Parallel Algorithms, Software and Systems (CERPASS) provides an experimental facility for researchers on the Internet.

The Center's parallel computing resource includes a Connection Machine CM-2 and a Symult Series 2010.

The Connection Machine Model CM-2 is a massively parallel SIMD machine. Its hardware consists of 16,384 data processors interconnected via a hypercube network. Each processor has a bit-serial ALU and a 64K-bit local memory. This CM-2 has two front-end subsystems - one VAX 6210 and one Symbolics 3600, a 5-Gigabyte mass storage system and a graphic color display device. Half of the machine (i.e., 8,192 processors) is also equipped with floating-point accelerator. Programming languages available on this machine include *Lisp, C* and Paris interfaces to Commonlisp and C.

The Symult S2010 is a message-passing, distributed memory MIMD machine. Its hardware consists of 32 computational nodes. Each node has a 32-bit Motorola 68020 microprocessor as its CPU, augmented by the Motorola 68881 floating-point coprocessors. Each node has 8MB local memory, and is connected with other nodes via a high-speed message-routing network (GigaLink). This machine uses a Sun-3 front-end, and can be programmed in C and the parallel extension

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written for this machine.

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Both the CM-2 and the Symult S2010 can be accessed from Internet via their VAX and SUN front-ends, respectively.

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Any organization working under a government contract or grant may apply for use of the CERPASS facility for parallel processing research. To establish an account, please contact the address above.

FF

CHPC - University of Texas System High Performance Computing

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
UT System CHPC
Balcones Research Center, Commons Bldg
10100 Burnet Rd
Austin, TX 78758-4497

_BSE_BSm_BSa_BSi_BSl: remark@chpc.utexas.edu

_BSP_BSh_BSo_BSn_BSe: (512) 471-2472
FAX: (512) 471-2445

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The CHPC provides access to a CRAY Y-MP/864, currently running the UNICOS 6.1.4 operating system, a CONVEX C220 running CONVEX/OS 9.1, a cluster of two IBM RS/6000s running AIX 3.1. Our life sciences community also can access our Sun SPARCserver 690 MP running SunOS 4.1 for molecular biology and genetics research applications. Staff and onsite researchers can access a network of over 30 Sun workstations, a Sun SPARCserver 670, a Sun Sparc 2 GS, a SGI 4D310/GTX and a Stardent Titan P3000/G3 graphics workstations. Service offerings include supercomputing, visualization, and biomedical algorithm design and support.

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All CHPC systems are on the Internet. Publicly accessible systems are:

Cray Y-MP	charon.chpc.utexas.edu
CONVEX C220	hermes.chpc.utexas.edu
IBM RS6000	ethyl.chpc.utexas.edu
	methyl.chpc.utexas.edu
Sun 690	almach.chpc.utexas.edu

Anonymous FTP: ftp.chpc.utexas.edu

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The Center also provides Gopher services.

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The Center is available to researchers within The University of Texas System, including the following academic components:

The University of Texas at Arlington

The University of Texas at Austin

The University of Texas at Brownsville

The University of Texas at Dallas

The University of Texas at El Paso

The University of Texas-Pan American

The University of Texas of the Permian Basin

The University of Texas at San Antonio

The University of Texas at Tyler

and the following health component institutions:

The University of Texas Southwestern Medical Center at Dallas

The University of Texas Medical Branch at Galveston

The University of Texas Health Science Center at Houston

The University of Texas Health Science Center at San Antonio

The University of Texas M.D. Anderson Cancer Center

The University of Texas Health Center at Tyler

System accounts are reserved for UT System faculty, students, staff, and their academic collaborators. Special arrangements to use the supercomputing facilities are possible, as for example with Sematech and MCC. Also, state agencies and other academic institutions by contract. No commercial accounts.

The CHPC is the development site of the GenTools (TM) Genomic Computational Tool Suite.

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The adminstrative staff members at the Center are:

Director:
Dr. James Almond (j.almond@chpc.utexas.edu)

Associate Director, Technical Services:
Mr. Gary Smith (g.smith@chpc.utexas.edu)

Associate Director, Applications Research and Development:
Dr. Matthew Witten (m.witten@chpc.utexas.edu)

Assistant Director, User Services:

Mr. Luther Keeler (l.keeler@chpc.utexas.edu)

Manager, Computing Services:
Mr. Dean Nobles (d.nobles@chpc.utexas.edu)

Manager, Administrative Services:
Mrs. Janet McCord (j.mccord@chpc.utexas.edu)

FF

NCSC - North Carolina Supercomputing Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
North Carolina Supercomputing Center
P.O. Box 12889 - 3021 Cornwallis Road
Research Triangle Park, North Carolina 27709

_BSE_BSm_BSa_BSi_BSl: info@flyer.ncsc.org

_BSP_BSh_BSo_BSn_BSe:
(919) 248-1100
FAX: (919) 248-1101

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The mission of the North Carolina Supercomputing Center (NCSC) is to promote the growth of computational science, education, and research in North Carolina institutions and to foster the economic development of North Carolina through high-performance computing and its applications. The primary focus of NCSC is to promote economic growth, computational science and education in North Carolina through cooperative agreements with industry and research collaborations with academic institutions at all levels. NCSC is a division of MCNC, a non-profit company. NCSC offers high-performance computing on the following platforms:

Cray YMP8/464	128 MWords SSD	62 GBytes of disk storage
Convex C220	128 MBytes of memory	10 GBytes of disk storage

An IBM 3090-180J provides mass storage services for the Center using Unitree. The Center's computers are connected via a high-speed UltraNet network.

The NCSC visualization lab includes a Silicon Graphics 4D/280 GTX with stereo display, UltraNet network interface, eight processors, 128 megabytes of memory and three gigabytes of disk storage; a Silicon Graphics 320 VGX-Turbo with

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32 megabytes of memory and 8 gigabytes of disk storage; a Sun 4/490 with 64 megabytes of memory and 7.3 gigabytes of disk storage; a DECStation 5000/200 PXG-Turbo with 96 megabytes of memory and 850 megabytes of disk storage; and a Stardent Titan 3040 P3 G3 with four processors, 64 megabytes of memory and 2 gigabytes of disk storage. The lab also includes a NeXT computer with color monitor, a Macintosh IIci with color monitor, a Kodak XL7700 color printer, an optical scanner, a film recorder, two commercial-grade component video recorders, a video digitizer, a scan converter and a digital frame store, and a multi-format video transcoder.

NCSC was chosen as the site of the International AVS Center in 1991. Two of the International AVS Center's goals are to broaden the user base and the functionality of Application Visualization System, the current "de facto" standard visualization environment, and to be vender-neutral. The Inter-

national AVS Center plans to reach this goal by fostering discipline-specific AVS module development and developing new uses for AVS. The International AVS Center collects, ports and distributes user-contributed public domain AVS modules and serves as a liason between AVS users and vendors. The International AVS center manages an International AVS Users Group to work with users from around the world to form local user groups.

NCSC provides user support through e-mail and telephone contacts; it also provides training courses on a wide variety of supercomputing topics. NCSC has a complete training facility with lecture facilities, video taping capability, and a hands-on training laboratory populated with 16 workstations. NCSC is a partner in the VISTAnet project, a component of the NREN project sponsored by the National Science Foundation. NCSC is installing a HIPPI based internal network for high-speed visualization and mass storage services. The Research Institute within NCSC pro- motes interdisciplinary and computational approaches to challenging problems through collaboration with industrial and academic partners.

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NCSC is a member of CONCERT, a state-wide network with bandwidth up to T3, operated by MCNC's Communications Division (see section 5.23 of the Internet Resource Guide). CONCERT accesses the Internet through SURAnet (see section 5.17 of the Guide). A state-wide two-way video and voice conferencing network, also operated by MCNC's Communications

Division, connects NCSC with universities across the state for collaboration and training.

The network address of the NCSC Cray is "flyer.ncsc.org". The mail server is "ncsc.ncsc.org".

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Academic resources are allocated on a peer-review basis to researchers affiliated with North Carolina's education system at no cost to the researchers. Resources for industrial affiliates are granted according to individual cooperative agreements.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Executive Director
   Lawrence Lee, Executive Director

(larrylee@ncsc.org).
(919) 248-1149

Deputy Director
Jeff Huskamp, Deputy Director
(huskamp@ncsc.org)
(919) 248-1164

Education/Outreach
Curt Edge, Outreach Project Manager
(edge@ncsc.org)
(919) 248-1148

Industry Partnerships
Bill Coe, Director of Industry Partnerships
(coe@ncsc.org).
(919) 248-1166

Operations
Rob Silvia, Manager of Operations
(rjs@ncsc.org)
(919) 248-1132

Peer Review Allocations
Bruce Loftis, Research Staff
(bruce@ncsc.org).
(919) 248-1124

Research Collaborations
Ken Flurchick, Research Staff
(kenf@ncsc.org).
(919) 248-1121

Scientific Support
Jeff Huskamp, Acting Manager of Scientific Support
(huskamp@ncsc.org)
(919) 248-1164

Technology
Nathan Hillery, Manager of Operations
(hillery@ncsc.org)
(919) 248-1106

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

NCSC forms, documents, CONCERT training material, utility programs and more are available through anonymous ftp. The anonymous ftp account is located on the Convex C220 at NCSC. The IP address is 128.109.178.1 or cardinal.ncsc.org. After you ftp to the server, enter the account name anonymous. You are then prompted for a password or identification name. At this prompt, you should enter your e-mail address. When you type in your e-mail address at this prompt, it will not be echoed on the screen. Once you are logged into the anonymous account, a limited set of UNIX commands are available, such as ls, cd, help, and get.

For additional information and instructions on using the account, see the pub/README.ftp file or enter man ftp at the system prompt to see the man page. Copy this file to your directory on the machine where you initiated the ftp session. Type quit to log out of the ftp session.

FF

Arizona State University Supercomputing Services

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
ECA-311, ODP-0101
Arizona State University
Tempe, AZ 85287-0101

_BSE_BSm_BSa_BSi_BSl:
kgrmc@asucray.inre.asu.edu
(manager, supercomputing services)
kgbat@asucray.inre.asu.edu
(supercomputing consultant, Cray)
kgdlw@asucray.inre.asu.edu
(supercomputing consultant, Cray)
kgzxk@asuvm.inre.asu.edu
(supercomputing consultant, IBM)

_BSP_BSh_BSo_BSn_BSe:
  (602) 965-1205 (manager, supercomputing services)
  (602) 965-2900 (supercomputing consultant, Cray)
  (602) 965-2761 (supercomputing consultant, Cray)
  (602) 965-5626 (supercomputing consultant, IBM)
  (602) 965-5677 (general secretary)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

oBS+ Cray X-MP/18 supercomputer running Unicos 5.1, VAX station software, 8 Mwords main memory, 8.4 Gbytes DD39 disk storage. The Cray supports both interactive and batch access. SUPERLINK access to 85 Gbytes of IBM-3380 disk storage. Fortran, C, and Pascal vectorizing and parallelizing compilers. X-Window interface. Software: IMSL, MPGS, MATLAB, other packages installed upon demand.

oBS+ IBM-3090/500E/3VF supercomputer running MVS/XA, 256 Mbytes main memory, 85 Gbytes of IBM-3380 disk storage, 8 tape drives, Memorex tape robot. Software: ESSL, OSL, BMDP, DI-3000, CalComp, ACSL, and numerous other

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packages.

oBS+ High-speed graphics visualization laboratory (SGI, Macintosh, film recorders, etc.)

oBS+ CalComp, Versatec, Tekronix, LaserWriter printers and plotters

oBS+ Campus-wide TCP/IP local area network

oBS+ Training, seminars, workshops, classes, and documentation available.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Both supercomputers are accessible via Internet, Bitnet, WestNet, USEnet, and dial-up modems. For details contact the center.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSe_BSn_BSt_BSe_BS

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Supercomputing facilities are available to ASU faculty, staff, and students. Commercial and industrial accounts are available on a cost-recovery basis. ASU is particularly interested in forming research partnerships with commercial organizations that need the processing and simulation capabilities of high-speed computers.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

ASU is an Academic Affiliate of the National Center for Supercomputer Applications (NCSA), the Pittsburgh Supercomputer Center (PSC), the San Diego Supercomputer Center (SDSC), and the Cornell National Supercomputer Facility (CNSF).

Administrative staff members:

Manager, Supercomputing Services (principal point of contact):
Dr. Richard M. Casey
(602) 965-1205
kgrmc@asucray.inre.asu.edu
Supercomputer Consultants:
Dr. Dale Wutz
(602) 965-2761
kgdlw@asucray.inre.asu.edu

Mr. Bruce Tachoir
(602) 965-2900
kgbat@asucray.inre.asu.edu

Mr. Zafer Kadioglu
(602) 965-5626
kgzxk@asuvm.inre.asu.edu
Assistant VP, Information Resources Management:
Dr. Lee Alley
(602) 965-6398
Director, Computing and Network Consulting Services:
Mr. Neil Armann
(602) 965-5677
icsnra@asuvm.inre.asu.edu

FF

UCLA Office of Academic Computing

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Office of Academic Computing
5628 Math Sciences Addition
University of California
405 Hilgard Avenue
Los Angeles, CA 90024-1557

_BSE-_BSm_BSa_BSi_BSl:
Internet: calloac@oac.ucla.edu
BITNET: calloac@uclamvs

_BSP_BSh_BSo_BSn_BSe:
(213) 825-7452 Consulting

(213) 825-7548 User Relations

Description

The Office of Academic Computing (OAC) provides mainframe and supercomputer services through its computing services group, microcomputer support services through its Microcomputer Support Office, and campus backbone network services through its Campus Network Services. OAC operates an IBM 3090-600S supercomputer with six vector facilities, running under MVS/ESA and VM/XA-SP, to provide computing services in support of UCLA's instructional and research activities.

OAC provides access to a wide variety of software facilities, including mathematical and engineering applications (ESSL, IMSL, ACRITH, EISPACK FUNPACK, LINDO, MPS360, and SPEAKEASY), computational chemistry (Gaussian 88, GAMESS, HONDO 7, MOPAC, and BATCHMIN), fluid dynamics analysis (AMES PNS, FLUENT/BFC, NS57, ROTOR2, TAIR and VSAERO), seismic analysis (MODMIG, PREMIG, and STARPAK), and structural analysis (ADINA, ASTROS, CSA/NASTRAN, NIKE2D, MAZE, and SAMCEF).

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For development of numerically intensive applications, the VS FORTRAN and Parallel FORTRAN (PF) compilers provide vectorization and parallel programming, respectively. Other compilers provided by OAC include C, PASCAL, PL/I, COBOL, APL, ALGOL, IBM Assembler, and Waterloo BASIC.

Other areas of interest include graphics software (Interactive Chart Utility, SAS/GRAPH, GDDM, DISSPLA, SPEAKEZ Graphics, GKS), and text processing (SCRIPT/VS). Popular software products such as TSO and ISPF/PDF, and statistical packages (SAS, SPSSx, and BMDP) are also available, as are electronic mail and access to ORION (the UCLA Library's online information system).

Network Access

OAC's facilities are available via:

+ Internet

+ BITNET for file transfer and electronic mail

+ Direct dial modems at 300, 1200, and 2400 baud

+ Hardwired workstations in OAC's public access facilities and in UCLA campus departments

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSO_BSA_BSC?

Computing services are provided to the UCLA community, other educational institutions, and state and federally funded projects. Accounts are available to other outside users on a case-by-case basis. Open-access computing accounts are available free to UCLA students and faculty to access ORION and electronic mail. For further information, call the OAC User Relations Office, (213) 825-7548.

Chapter 2: Library Catalogs

A large number of libraries allow access to their library catalogs via the Internet. Such catalogs can be very useful for finding uncommon books not available at a local library. Once a book is located, it can often be borrowed by your local library through Interlibrary Loan. Another popular use of library catalogs is to check citations or references. Many catalogs also support more extended reference facilities.

Please note that on-line catalogs often have a limited number of ports. Users are asked not to abuse their access.

We would like to acknowledge the considerable assistance of Ron Larsen, Art St. George, and Joe St. Sauver in compiling this section.

Contents

2.1 Boston University Library Catalog [Aug92]

2.2 MELVYL (R) System - University of California Catalog [Dec92]

2.3 CARL - Colorado Alliance of Research Libraries [Jan90]

2.4 RLIN - Research Libraries Information Network [Aug90]

2.5 Florida Center for Library Automation [Jul89]

2.6 MIRLYN - MIchigan Resource LibrarY Network [Jul92]

2.7 University of New Mexico Gateway [Jun89]

2.8 Emory University Libraries Online Public Access Catalog [Oct89]

2.9 MAGIC [Feb90]

2.10 Info-Lib [Feb90]

2.11 InfoTrax [Oct92]

2.12 ARLO - University of Colorado at Colorado Springs [Jul92]

2.13 Franklin - The Online Catalog of the University of Pennsylvania Library [Sep92]

2.14 NLS - University of Wisconsin, Madison and Milwaukee Campuses Network Library System [Feb91]

2.15 University of Utah Library Card Catalog System [Apr90]

2.16 LUIS - Northwestern University Online Catalog [Jul92]

2.17 URSUS - Holdings of the University of Maine System and Participating Libraries [Jul92]

2.18 NOTIS/LUIS - University of Illinois at Chicago [Jan92]

2.19 Cleveland Public Library Catalog [Jun90]

2.20 LIAS - Penn State University Library Information and

Access System [Sep92]

2.21 HOLLIS - Harvard Online Library Information System [Aug92]

2.22 LCMARC - Cataloging Records from the Library of Congress [Aug92]

2.23 The Online Catalog, Princeton University Libraries [Jul92]

2.24 POLYCAT - The Online Catalog of the Kennedy Library [Jul92]

2.25 OASIS - University of Iowa Libraries [Aug92]

2.26 BUBL - The Bulletin Board for Libraries [Sep92]

2.27 WUGate Services - Washington University Library/Database Access System [Sep92]

2.28 TWU Woman's Collection - Texas Woman's University Library [Dec92]

2.29 SABIO - The University of Arizona Library's Information System [Mar93]

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Boston University Library Catalog

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Boston University Libraries
771 Commonwealth Avenue
Boston, MA 02215

_BSE_BSm_BSa_BSi_BSl: dbp@bu-it.bu.edu

_BSP_BSh_BSo_BSn_BSe: (617) 353-3710

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Boston University Online Catalog provides access to over 1.5 million volumes and 2.5 million microforms. The collection represents the holdings for all libraries on campus.

The Online Catalog is made by Innovative Interfaces, Inc., located in Berkeley, California. The system provides

records for books, periodicals, musical scores and record-
ings, rare books and microforms.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The Online Catalog is accessible via "telnet" to host:
   library.bu.edu (128.197.130.200)

Primary terminal emulations include VT100 and TVI925.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSO_BSn_BSl_BSi_BSn_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The Online Catalog is available to all members of the Inter-
net community.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

   Mugar Memorial Library reference desk: (617) 353-3704
   Pappas Law Library reference desk: (617) 353-3151
   Medical Center Library reference desk: (617) 638-4230
   School of Theology Library reference desk: (617) 353-3034

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dance with the copyright notice appearing at the front
of this guide.

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MELVYL (R) System - The University of California Catalog

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
   Division of Library Automation
   University of California
   Office of the President
   300 Lakeside Drive, 8th floor
   Oakland, California 94612-3550

_BSE_BSm_BSa_BSi_BSl: melvyl@dla.ucop.edu

_BSP_BSh_BSo_BSn_BSe: (510) 987-0555 (MELVYL Catalog Helpline)
   FAX: (510) 987-0328

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The MELVYL catalog is a computer-based library catalog of

over 7 million unique book titles representing more than 11 million holdings of all libraries in the nine-campus UC system and the California State Library. The catalog contains records of book and periodical (serial) holdings, and other materials such as maps, films, musical scores, and sound recordings. Collections strengths include agriculture, dry lands, oceanography, entomology, performing arts (especially film and television), photography, Californiana, materials on Mexico and Central America, 17th and 18th century British literature, health sciences, science fiction, and many others.

The periodical file, containing more than 640,000 unique titles of newspapers, journals, proceedings, etc., includes the holdings of Stanford University, the University of Southern California, the nineteen-campus California State University system, and selected other libraries.

The MELVYL catalog also includes two article abstracting and indexing files-MEDLINE and Current Contents. Use of these files, unlike the books and periodicals files, is restricted to the UC community. The MELVYL MEDLINE database contains the National Library of Medicine's MEDLINE database, which

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includes article citations indexed from health sciences journals from 1966 to the present. The Current Contents file, from the Institute for Scientific Information, contains citations to journals in seven disciplines. Other databases include some IAC files and Inspec.

The "DLA Bulletin" and "Mynd of the MELVYL Catalog", two publications describing the online catalog and its development and use, are also available online. The MELVYL Online Catalog also provides TELNET access to other remote library systems.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The system is on the Internet, on host "melvyl.ucop.edu" (192.35.222.222).

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The MELVYL Online Catalog and CALLS are universally avail-

able. Access to MEDLINE and Current Contents files are restricted under a license agreement to the University of California faculty, staff, and students.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For additional information, contact:

Clifford Lynch, Director
(calur@uccmvsa.bitnet, lynch@postgres.berkeley.edu)
(510) 987-0522

Mike Berger, Assistant Director for Planning
(mgbuc@uccmvsa.bitnet)
(510) 987-0563, (510) 642-3466

Mary Engle, Programmer/Analyst
(meeur@uccmvsa.bitnet, engle@cmsa.berkeley.edu)
(510) 987-0552

Laine Farley, MELVYL User Services
(lxfol@uccmvsa.bitnet)

MELVYL is a trademark of the Regents of the University of California.

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CARL - Colorado Alliance of Research Libraries

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
CARL
777 Grant, Suite 304
Denver, CO 80203

_BSE-_BSm_BSa_BSi_BSl: help@carl.org

_BSP_BSh_BSo_BSn_BSe: (303) 861-5319

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

CARL provides online public access catalogs for a number of academic, institutional, and public libraries in Colorado and surrounding states.

Additional databases include UnCover[tm], CARL's guide to the current contents of more than 10,000 journals, the union list of the Boston Library Consortium, and several data bases of local and regional interest.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

CARL is available on the Internet via telnet at pac.carl.org (192.54.81.128).

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg_BSs

There are currently no restrictions on any access except the use of Grolier's Encyclopedia, which may be used only by the patrons of particular member libraries, and the UnCover database. (Note: special arrangements to use UnCover may be made by contacting CARL.)

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

For information on UnCover or access to other restricted data bases please send e-mail to uncover@carl.org or contact

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UnCover is a trademark of Carl Systems, Inc.

Rebecca T. Lenzini at (303) 861-5319.

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RLIN - Research Libraries Information Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
RLIN Information Center
Research Libraries Group, Inc.
1200 Villa St.
Mountain View, CA 94041-1100

_BSE-_BSm_BSa_BSi_BSl: bl.ric@rlg.stanford.edu, bl.ric@rlg.bitnet

_BSP_BSh_BSo_BSn_BSe: 1-800-537-RLIN (RLIN Information Center)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

RLIN is the information management and retrieval system of The Research Libraries Group, Inc. It includes an online

bibliographic database cataloging the holdings of well over one hundred research libraries, archives, and special collections-a total of over forty million records in August 1990. Entries are divided among eight files: books, serials, archival materials (e.g., personal papers, governmental records), maps, music scores, sound recordings, visual materials (e.g., films and photographs), and computer files. Smaller subject-oriented databases contain citations for articles in art and architectural periodicals; eighteenth-century English-language publications; art sales catalogs dating from the 1500s to the present; and research in the humanities scheduled for publication within the next two years.

Users search RLIN with command-line searches rather than from a menu, by specifying index terms. Indexes available include title, subject, author, conference or corporation, ISBN, LC number, and many more; some are specific to the file being searched (such as the index to music publishers' unique numbers on sound recordings and scores). Search results can be further restricted by language, date of publication, publisher, terms found in notes fields, etc.

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_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

RLIN is available to subscribers over the Internet. It can also be dialed into through the public packet network, SprintNet. A private packet network supports RLIN users who maintain entries in the database.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSR_BSL_BSI_BSN

Charges for Internet access:

For individuals: $119 for 10 hours connect time

For libraries: $200 one-time start-up fee plus per-search charges ranging from 50 to 80 cents.

Subscribers for RLIN searching receive an account ID and password, descriptions of RLIN and its files, step-by-step directions for accessing the system, and assistance from the RLIN Information Center via a toll-free service number: 1-800-537-7546 (537-RLIN).

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Florida Center for Library Automation

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
2002 NW 13th. Street, Suite 320
Gainesville, Florida. 32609

_BSE-_BSm_BSa_BSi_BSl: fcla@nervm.nerdc.ufl.edu

_BSP_BSh_BSo_BSn_BSe: (904) 392-9020

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Contains online catalogs of the nine state-funded universities, with 5.4 million bibliographic records plus serial holdings.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Use tn3270 (telnet supporting 3270 emulation) to nervm.nerdc.ufl.edu.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

Anyone can search the catalogs. Please contact FCLA for an authorization code.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Mary Ann Garlough (OPAC Support) fclmag@nervm.nerdc.ufl.edu
Mark Hinnebusch (Technical Support) fcla@nervm.nerdc.ufl.edu

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MIRLYN - MIchigan Resource LibrarY Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Graduate Library Reference & Information Center
209 Harlan Hatcher Graduate Library, North
University of Michigan
Ann Arbor, MI 48109-1205

_BSE_BSm_BSa_BSi_BSl: MIRLYNINFO@um.cc.umich.edu [Grad.Lib.Ref.& Info.Center]

_BSP_BSh_BSo_BSn_BSe: (313) 764-9373 [Grad.Lib.Ref.& Info.Center]
FAX: (313) 763-5080 [Library Administration]

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

MIRLYN is a computer-based system incorporating an OPAC and other files. MIRLYN currently contains bibliographic, holdings, and circulation records for most of the University Library's collection. It also contains commercial journal index files (six Wilson files as one file, "PsycInfo", "MathSci", "PAIS", "National Newspaper Index", "A Matter of Fact") and local files, all with links to the OPAC bibliographic file.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet to host "hermes.merit.edu". This system provides access to UMNet, the University of Michigan's wide area network. Users will receive the prompt: "WHICH HOST?" and should respond "MIRLYN". Terminal or communications packages must be set to emulate a VT100.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The OPAC is available to all. Commercial and local files are accessible in all University of Michigan Libraries and to all off-site users who are University of Michigan students, faculty, or staff. Commercial and local files are generally not accessible to non-University of Michigan off-

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site users, except by special prior arrangement; contact Graduate Library Circulation, 104 Hatcher Graduate Library, Ann Arbor, MI 48109-1205 or call (313) 764-0400 for information.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

The contents of MIRLYN are growing, both in terms of OPAC records (where efforts are being made to include previously uncataloged library collections) and other files, both commercial and local. Access to full text files, on another Library resource, is now being implemented.

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University of New Mexico Gateway

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
2701 Campus Blvd. NE
Albuquerque NM 87131
(attn:St.George)

_BSE-_BSm_BSa_BSi_BSl: stgeorge@bootes.unm.edu

_BSP_BSh_BSo_BSn_BSe: (505) 277-8046

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The general and medical libraries are available as are a variety of databases ranging from the university catalog and

phone directory to specialized ones such as that on Latin America.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Telnet to host bootes.unm.edu (129.24.8.2) and log in as student1, student2, student3, student4, student5, or student6. No password required. You will then be prompted for a terminal type and then put into a menu system from which you can select the libraries or databases.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

With one exception, all of the databases are free.

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Emory University Libraries Online Public Access Catalog

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Selden S. Deemer
University Libraries
G21 Woodruff Library
Emory University
Atlanta, GA 30322

_BSE-_BSm_BSa_BSi_BSl:
libssd@emuvm1.bitnet

_BSP_BSh_BSo_BSn_BSe:
(404) 727-0271

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The online catalog system is based on IBM DOBIS/Leuven software. The catalog contains the union catalog for 5 library units: General Libraries (Woodruff, Candler, and Chemistry Libraries), Health Sciences Center Library, Law Library, Oxford College Library, and Theology Library.

The online catalog database currently contains more than 500,000 bibliographic records, representing approximately 40% of the total holdings. A retrospective conversion project has been started.

It is located on host emuvm1.cc.emory.edu (128.140.1.4).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Use tn3270 or other telnet supporting 3270 protocols to connect to emuvm1.cc.emory.edu (128.140.1.4). After the VM screen is displayed, press ENTER (normally the RETURN key) to get a CP READ. Type DIAL VTAM and press ENTER. At the VTAM screen, type LIB and press ENTER. When the CICS screen appears, press the PF1 key. The next screen will be the initial library system screen. All references to pressing RETURN on the library screens mean to press the key which

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sends ENTER (normally the RETURN key). To exit, terminate the telnet connection.

Context-sensitive help is available throughout the Online Public Access Catalog with the PF2 key.

No account or password is required.

Scheduled availability: Monday - Saturday 0800 - 0200; Sunday Noon - 0200

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The Emory Online Public Access Catalog is available to all members of the internet community.

_BSA_BSd_BSd_BSi_BSt_BSi_BSo_BSn_BSa_BSl _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BS

t_Bi_Bo_Bn

For assistance in searching the Emory University Online Catalog, contact the reference desk at Woodruff Library, 404-727-6875.

DOBIS is a trademark of IBM Corporation.

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MAGIC

_BA_Bd_Bd_Br_Be_Bs_Bs:
Michigan State University Libraries
East Lansing, MI 48824-1056

_BE-_Bm_Ba_Bi_Bl: Thomas Albright, Head Library Systems: 20676tea@msu.bitnet

_BP_Bh_Bo_Bn_Be: 517-383-8700 (MSU Libraries Information/Reference)

_BD_Be_Bs_Bc_Br_Bi_Bp_Bt_Bi_Bo_Bn

MAGIC is a computer-based library catalog of more than 1.3 million unique book, serial, microform, and other non-book titles in the Michigan State University Libraries.

NETWORK ACCESS

To access using IBM 3270 emulation:
TN3270 to magic.msu.edu (35.8.2.99).
At the VM 370 screen press the ENTER key.
At the logon screen enter "Dial MAGIC".
Press ENTER to get the MAGIC introductory screen.
To exit from MAGIC, use your local escape sequence to return to the TN 3270 program and close the network connection.

To access using Telnet (VT100, VT200 emulation):
Telnet to merit.msu.edu (35.8.2.56).
Enter "MAGIC" at the "Which Host?" prompt.
Enter "VT100" as your terminal type. The MAGIC introductory screen will be displayed.
To exit from MAGIC, press CTRL-E and then enter "%quit"

WHO CAN USE THE RESOURCE

MAGIC is available to anyone, without any restrictions.

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MISCELLANEOUS INFORMATION

For questions concerning network access contact:

Computing Information Center
MSU Computing Laboratory
consult@msu.edu
(517) 353-1800

For written instructions on how to use MAGIC, write to :

MSU Libraries
Information/Reference
(517) 353-8700

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Info-Lib

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Info-Lib
c/o Dr. Ronald L. Larsen
Associate Director for Information Technology
McKeldin Library
University of Maryland at College Park
College Park, Maryland 20742-7011

_BSE-_BSm_BSa_BSi_BSl: RLarsen@UMD5.UMD.EDU

_BSP_BSh_BSo_BSn_BSe: (301) 454-7332

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Info-lib is a directory of library catalogs and related resources accessible via the Internet.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Anonymous FTP to UMD5.UMD.EDU
Information is in directory INFO-LIB

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSD_BSi_BSr_BSe_BSc_BSt_BSo_BSr_BSy

There are no restrictions on accessing the directory. Additions, corrections, and updates are encouraged and should be e-mailed to RLARSEN@UMD5.UMD.EDU.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Libraries included in the directory provide Internet access to selected resources at no charge. This usually includes the online catalog, but in some cases also includes access to other online databases. Some directors of libraries are sensitive to the added burden this may place on their resources, so users are cautioned to use discretion.

This directory has been assembled through the cooperation of

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the members of the EDUCOM Networking and Telecommunications Task Force.

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InfoTrax

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Automation Department
Folsom Library
Rensselaer Polytechnic Insitute
Troy, NY 12180-3590

_BSE_BSm_BSa_BSi_BSl: USERA0NY@MTS.RPI.EDU

_BSP_BSh_BSo_BSn_BSe: (518) 276-8300
FAX: (518) 276-8559

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

InfoTrax provides access to all cataloged library materials. Related library files include homework assignments, library news and a message facility. Campus information files and databases, such as the campus directory, faculty research interests, alumni news and computing services information, are also included.

InfoTrax was developed at Rensselaer using Stanford's SPIRES DBMS.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet to infotrax.rpi.edu

Dial-in:
Phone:
518-276-8989 (300 or 1200 bps)
518-276-8990 (2400 bps)
518-276-8400 (9600 bps)

Duplex:	Full		Full
Data Bits:	8	or	7
Parity:	None		Even
Stop Bits:	1		1

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSR_BSe_BSs_BSo_BSu_BSr_BSc_BSe

Most files are available to the general public. Some copyrighted and restricted files are for Rensselaer users only. These files require a campus password.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For additional information contact:
Joe Thornton
Head, Automation Department
518-276-8345
Internet: useraOny@mts.rpi.edu
Bitnet: useraOny@rpitsmts

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ARLO - University of Colorado at Colorado Springs

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Leslie Manning
1420 Austin Bluffs Parkway
P.O. Box 7150
Colorado Springs, Colorado 80933-7150

_BSE_BSm_BSa_BSi_BSl: lamanning@uccs.edu (Internet)
lamanning@colospgs (BITNET)

_BSP_BSh_BSo_BSn_BSe: (719) 593-3295

FAX: (719) 528-5227

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

ARLO is the on-line library catalog for the University of Colorado at Colorado Springs. It contains records for 250,000+ book and serials titles with primary emphasis in business, education, electrical engineering, and psychology.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet to arlo.uccs.edu (128.198.26.129). Login code and user-id are both "ARLO" (in capital letters). The user interface is the Dynix system and is self-explanatory. The terminal or computer used to login must emulate a VT100.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The online catalog is available to all users of the network.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For additional information, contact:

(719) 593-3287 Christina Martinez, System Coordinator
(719) 593-3118 James Durkee, Director of Campus Computing

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Franklin - The Online Catalog of the University of Pennsylvania Library

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Van Pelt-Dietrich Library Center
3420 Walnut Street
Philadelphia, PA 19104-6206

_BSE_BSm_BSa_BSi_BSl: pennlibr@penndrls.upenn.edu

_BSP_BSh_BSo_BSn_BSe: (215)898-7555 (General Reference)

FAX: (215)898-0559

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Franklin, the online catalog of the University of Pennsylvania Library, is a NOTIS-based system. It can be searched by author, title, keyword, subject and call number.

The catalog includes over 1.7 million citations for items in the University Libraries. In general, material cataloged since 1968 is included in Franklin. In addition, major segments of the older collections are added to Franklin on an ongoing basis. For information on material included in Franklin, check the introductory screens.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet to pennlib.upenn.edu. The connection is via reverse terminal server to an IBM 7171. It assumes VT100 compatibility.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The catalog is available to internet users. The Penn Library collections are primarily for the use of students, faculty and staff of the University. Access restrictions apply. Call (215) 898-7554 for more information.

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NLS - University of Wisconsin
Madison and Milwaukee Campuses
Network Library System (NLS)

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Automation Help Desk
212F Memorial Library
University of Wisconsin
728 State Street
Madison, WI 53706

_BSE_BSm_BSa_BSi_BSl: glshelp@vms.macc.wisc.edu

_BSP_BSh_BSo_BSn_BSe: (608) 262-8880

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Network Library System (NLS) is the online public catalog of the libraries at the University of Wisconsin-Madison and the University of Wisconsin-Milwaukee. NLS supports a separate online catalog for each campus.

The UW-Madison online catalog contains more than 1.7 million titles cataloged since 1976 located in twenty-five libraries on the campus and at the Center for Research Libraries in Chicago. This represents roughly fifty percent of their collections. The UW-Milwaukee catalog contains approximately nine hundred thousand titles and represents eighty-five percent of the general collection.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs:

If it is available on your system, please use "tn3270" (telnet supporting 3270 emulation) to access "blue.adp.wisc.edu" (128.104.198.10). When connected you are presented with a menu from which you select "NLS", the library catalog. Either use function keys to select an option or tab to the option you want and press _BSe_BSn_BSt_BSe_BSr.

Telnet access is also available via a gateway machine

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providing the necessary 3270 emulation. From your local host use "telnet" to access "nls.adp.wisc.edu" (128.104.198.20). You will be prompted to enter a terminal type ("VT100" is the default, or you can enter the command "list" to display a list of supported terminal types). After entering a valid terminal type, select "NLS" from the menu to connect to the library catalog.

Upon entering NLS, a screen is displayed at which you either press "enter" to search the Madison catalog or type "Mil" and press "enter" to search the Milwaukee catalog. Enter the command "exit" on any screen to return to the main menu. To exit from NLS, return to the main menu and select the

option to "quit". This returns control to your local host.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSN_BSL_BSS:

The University of Wisconsin library catalogs for the Madison and Milwaukee campuses are currently available to all interested parties.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn:

Xterm users or other windowing software users must set their window size to 80 characters x 25 lines.

For help using NLS or to obtain a free "NLS Computer Catalog User's Guide," contact the Memorial Library Information Desk at (608) 262-3193, or Dennis Hill via the Internet: dhill@vms.macc.wisc.edu.

More detailed information on accessing NLS via the Internet is documented in: "TCP/IP Network Access To The NLS Catalog Via Tn3270 And Telnet." For a copy of this document, or any other information, contact the Automation Help Desk at (608) 262-8880, or via the Internet at "glshelp@vms.macc.wisc.edu".

Note on keyboard mappings:

Because keyboard mappings are defined by the tn3270 software on the client's host computer, we are not able to tell you definitively how your keyboard will be mapped. The following chart shows a selection of the tn3270 keyboard mapping used on many UW Madison VAX computers. These definitions are also used when accessing NLS via telnet as they are provided by the 3270 software on the gateway machine.

KEY PURPOSE	KEYBOARD DEFINITION
Send (called the BLUE key in NLS)	Enter or Return
Erase-to-end-of-field (called the YELLOW key in NLS)	Ctrl-e
Delete character	Ctrl-d
Escape key	PF11 (default mapping)
Insert/Overstrike toggle	Escape space
Function keys PF1-PF9	Escape 1-Escape 9
Function key PF10	Escape 0
Function key PF11	Escape -
Function key PF12	Escape =

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University of Utah Library Card Catalog System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Marriot Library
University of Utah
Salt Lake City, UT 84112

_BSE-_BSm_BSa_BSi_BSl: postmaster@cc.utah.edu

_BSP_BSh_BSo_BSn_BSe: (801) 581-6273

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The University of Utah library card catalog system is available via the Internet. It allows subject, author, title, and keyword search on the bibliographic reference. The system lists the books and periodicals for the main library and the law library.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

To access the card catalog, use the tn3270 program and connect to lib.utah.edu; press the return or enter or clear key; and enter "dial unis" (Unis is the name of the catalog system). To leave the system, close the connection using whatever mechanism your tn3270 program provides.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

Anyone can use the catalog.

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LUIS - Northwestern University Online Catalog

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Data Center
Northwestern University Library
1935 Sheridan Road
Evanston, IL 60208-2300 USA

_BSE_BSm_BSa_BSi_BSl: library@nuacvm.acns.nwu.edu

_BSP_BSh_BSo_BSn_BSe:
(708) 491-8390
FAX: (708) 491-8306

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Northwestern University's LUIS online catalog provides author, title, and subject access to approximately 700,000 bibliographic records, including monographs processed by the main library since 1970 and all serials, regardless of date. Holdings of the Medical, Law, Dental, and Transportation Libraries and the United Libraries of the Garrett Evangelical and Seabury Theological Seminaries are also included.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Domain Name: nuacvm.acns.nwu.edu
Machine Address: 129.105.16.1

IMPORTANT: At the VM/CMS introductory screen, type "DIAL VTAM" at the "COMMAND===>" prompt. Then at the "Enter application ID:" prompt, type "LIBRARY" and press "enter". LUIS is the online catalog.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The Northwestern LUIS online catalog database is available without restriction. The MEDLINE and EXAC databases are for use by the Northwestern community.

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Northwestern University Library Reference Department:
(708) 491-7656

James Aagaard: (708) 491-8301
(Director, Information Systems Development Office)

Brian Nielsen: (708) 491-2170
(Assistant University Librarian for Network Development)

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

Instructional document "luistel.net" available in directory "library" via anonymous ftp from "nuacvm.acns.nwu.edu".

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URSUS - Holdings of the University of Maine System
and Participating Libraries

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Systems Office
Raymond H. Fogler Library
University of Maine System
Orono, Maine 04469-0139

_BSE_BSm_BSa_BSi_BSl: lutz@maine.maine.edu

_BSP_BSh_BSo_BSn_BSe: (207) 581-1658

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

URSUS (University Resources Serving Users Statewide) is an information system based on the Innovative Interfaces Software (INNOPAC). The system provides access to the union catalog for the seven University of Maine System libraries, and other particiapting libraries. The Maine State Library, the Maine State Law and Legislative Reference Library, and the Bangor Public Library are participating libraries. The union catalog currently contains 1.2 million bibliographic records, representing approximately 90% of the total holdings of the participants.

URSUS is the gateway to other information resources on the system including the Maine Union List of Serials, periodical indexes, other library catalogs, and locally mounted databases.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Domain Name: URSUS.MAINE.EDU

Machine Address: 130.111.64.1

After you have connected to URSUS, type "ursus" in lower case letters at the "login" prompt, and press "return" to see a list of valid terminal types: VT100, Wyse, or

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emulator. Specify your terminal type, confirm your terminal choice, and begin searching.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSU_BSR_BSS_BSU_BSS

URSUS is available to all members of the Internet community. Access to licensed, commercial databases is restricted based on the host IP address.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For additional information contact:

Elaine Albright, Dean of Cultural Affairs and Libraries
(207)-881-1660; albright@maine.maine.edu

Marilyn Lutz, Systems
(207) 581-1658; lutz@maine.maine.edu

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NOTIS/LUIS - University of Illinois at Chicago

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
University of Illinois at Chicago
University Library
Box 8198 m/c 234
Chicago IL 60680

_BSE_BSm_BSa_BSi_BSl: lib-sugg@uicvm.uic.edu

_BSP_BSh_BSo_BSn_BSe: (312) 996-2716

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

LUIS, the Library User Information Service, can be used to find bibliographic information, locations, and call numbers for materials held by the libraries of the University of Illinois at Chicago (UIC). LUIS includes more than 860,000 titles. Older items in the UIC libraries may not be included in LUIS.

LUIS contains records for all books cataloged since 1976 for the Library of the Health Sciences (LHS), and since 1977 for the other UIC libraries. Many older books in the east campus libraries are also included: all English-language books published since 1968, and virtually all books in the Architecture and Art, Math, and Science Libraries are in LUIS.

LUIS also contains LHS audiovisuals cataloged since 1978 and selected government documents at LHS. Records and holdings for all periodicals currently received by LHS, and for most periodicals currently received by the other libraries, are in LUIS. Most titles not yet cataloged (including those on order) are also included.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

"telnet" to "uicvm.uic.edu" (128.248.2.50) for "tn3270" only.

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

"telnet" to "uicvm-7171.uic.edu" (131.193.2.231) for "7171".
At the UIC screen, press "enter".
At the logon screen, type "DIAL PVM".
At the PVM screen, move the cursor to "NOTI" and press "enter".
You will see a message about the port in use; press "enter".
Then you will see the LUIS introductory screen.

To leave the system:

Type "####".
You will see the PVM screen; type "PA1".

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BS

o_BSg

There are no restrictions at present.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For additional information, contact:

Nancy John, Assistant University Librarian
(312) 996-2716
U31452@uicvm.uic.edu

Paige Weston, Systems Librarian
(312) 996-8974
U50343@uicvm.uic.edu

Harriet Gorny, Systems Programming Manager
(312) 996-2479
U35049@uicvm.uic.edu

George Yanos, Associate Director, Computer Center
(312) 996-2459
U08208@uicvm.uic.edu

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Cleveland Public Library Catalog

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Automation Services Department
Cleveland Public Library
325 Superior Avenue
Cleveland, Ohio 44114

_BSE-_BSm_BSa_BSi_BSl: none

_BSP_BSh_BSo_BSn_BSe: (216) 623-2810

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Cleveland Public Library's catalog is now available through Internet connections. The catalog contains 1.6 million titles and 5.9 million items representing the holdings of eighteen libraries in northern Ohio, as well as a Union List of Periodicals that includes thirty-eight area libraries, including Case Western Reserve, the Cleveland Clinic Foundation, and the Cleveland Health Sciences Library.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

To connect:

TELNET CLEVXE.CPL.ORG

After connecting, press Return a couple of times, and follow the menu.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

Anyone can use the catalog.

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

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LIAS - Penn State University's Library Information Access System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Attention: Sally Kalin
Penn State University Libraries
E-6 Pattee Library
University Park, Pennsylvania 16802

_BSE_BSm_BSa_BSi_BSl: swk%psulias.bitnet@cunyvm.cuny.edu

_BSP_BSh_BSo_BSn_BSe: (814) 865-0672

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

LIAS is the Library Information Access System of the Pennsylvania State University Libraries. It includes the online catalog and access to other databases/services. The catalog contains approximately 1.5 million unique titles, representing not only the holdings at the main campus at University Park, but also the holdings of Penn State Harrisburg; Penn State Erie, the Behrend College; Great Valley; and the seventeen Commonwealth campuses. In addition to monograph and serial records, LIAS provides bibliographic access to the the maps collection, musical scores, sound recordings, archive and manuscript collections, parts of the government documents and microforms collections, and the machine-readable data files available on campus. LIAS also provides access to the collections of Audio-Visual Services, the Paul Robeson Cultural Center, and the National Cable Television Center and Museum. Databases include ERIC and electronic journals. Some databases are restricted to Penn State faculty, staff, and students.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet, preferably using VT100 emulation, to lias.psu.edu. When the telnet session is established, the user will receive a message similar to:

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

"Welcome to the Pennsylvania State University
Library Information Access System."

You can negotiate VT100 emulation at this point. If you have emulation problems, try typing terminal VT100 at the ">>>" prompt.

Now begin searching the LIAS database. LIAS does not differentiate between author, title, and subjects in its command structure. Simply enter the words you wish to search.

To see a list of databases that are available, type "SELECT" and press return.

The user can type "HELP LIAS" for information. For a list of LIAS commands, type "HELP COMMANDS." The extensive help command structure can answer most questions about the system.

To exit the system and close your connection, type "END" or "EXIT."

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The Penn State Library Information Access System is available to all members of the Internet community. Some of the databases available through this service may be restricted to use by Penn State faculty, staff, and students.

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HOLLIS - Harvard Online Library Information System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Office for Systems Planning and Research
Harvard University Library
1280 Massachusetts Ave., Suite 404
Cambridge, MA 02138

_BSE_BSm_BSa_BSi_BSl: library@harvarda.harvard.edu

_BSP_BSh_BSo_BSn_BSe: 617-495-9388 (HOLLIS Network Assistance Line)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Harvard Online Library Information System (HOLLIS) provides access to a number of databases including two library catalogs. The union catalog of the Harvard University libraries contains approximately three million records for books, journals, manuscripts, scores, sound recordings, visual materials, and computer files in the collections of most of the Harvard libraries. (This database includes most items cataloged since 1977, and is adding records for older materials at the rate of approximately one million per year through a major retrospective conversion project.) The catalog of older Widener Library materials contains about a million short records for books cataloged for the main research library before 1977.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

HOLLIS is available via Telnet or TN3270 to hollis.harvard.edu (128.103.60.31). To exit, use your Telnet escape sequence.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

HOLLIS is available to all. Many of the HOLLIS databases are available with no access restrictions. Certain other databases may be restricted to Harvard students and employees because of agreements with the database vendors.

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For additional information, contact:
library@harvarda.harvard.edu

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LCMARC - Cataloging Records from Library of Congress

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Data Research Associates, Inc.
Sales Department
1276 North Warson Road
St. Louis, Missouri 63105

_BSE_BSm_BSa_BSi_BSl: Catalog@DRA.COM

_BSP_BSh_BSo_BSn_BSe: (314) 432-1100
FAX: (314) 993-8927

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Software Development Group of Data Research Associates, Inc. has made over four million cataloging records from the Library of Congress LCMARC service available to researchers via the Internet. This database contains the records from the Books All, Maps, Music, Serials, and Visual Materials services as distributed by the Cataloging Distribution Service. The database contains the machine readable cataloging of the Library since 1968 (or later for some types of materials).

Guest users may search the database by author, title, author/title, ISBN, ISSN, LCCN, as well as qualifying searches by language, copyright date, or cataloging format. Subject and keyword searching is not available to guest users. Additional types of searches may be available for users with Data Research accounts.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet, using VT100 or better emulation, to dra.com (192.65.218.43). After the copyright notice and initial screen appear, you can begin searching the database.

"A=" for an author search, e.g., "A=Shakespeare William"
"T=" for a title search, e.g., "T=Taming of the Shrew"
"L=" for a LCCN search, e.g., "L=89001392"

The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

"I=" for a ISBN search, e.g., "I=0134701542"
"N=" for a ISSN search, e.g., "N=0891-9860"
"??" for additional help
"EX" to exit

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

Only two guest users are allowed access at a time during business hours, 8:00 am to 5:00 pm (Central Time). Guest access to this database may not be used for cataloging or competitive purposes. Access from outside the United States may require prior arrangements.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Data Research Associates, Inc., is not responsible for supporting or maintaining this service or its data for guest users. This service may be modified, unavailable, or withdrawn at any time without notice.

Records originating with the Library of Congress are copyrighted by the Library of Congress for use outside the United States.

This service is not the same as the LC card catalog, and is not sponsored or in any way affiliated with the Library of Congress.

FF

The Online Catalog, Princeton University Libraries

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Systems Office
Firestone Library
Princeton University
One Washington Road
Princeton, New Jersey 08544

_BSE_BSm_BSa_BSi_BSl:

Systems: marvinb@pucc.princeton.edu
marvinb@pucc (BITNET)
Online Catalog help: fstcat@pucc.princeton.edu
fstcat@pucc (BITNET)

_BSP_BSh_BSo_BSn_BSe:
Systems Office: (609) 258-5143
General Reference: (609) 258-3180

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Online Catalog contains records for most books and materials acquired by Princeton University Libraries since Jan. 1, 1980. For other titles held by the Libraries, users must consult the card catalog or other sources.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet to catalog.princeton.edu or 128.112.131.101

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

No restrictions.

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FF

POLYCAT - The Online Catalog of the Kennedy Library
California Polytechnic State University, San Luis Obispo

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Ilene Rockman
Polycat/Systems Support
Kennedy Library
Cal Poly
San Luis Obispo, CA 93407

_BSE_BSm_BSa_BSi_BSl: ilene@library.calpoly.edu

_BSP_BSh_BSo_BSn_BSe:
(805) 756-5787
Fax: (805) 756-1415
TDD: (805) 756-2273

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Polycat is the online catalog of Kennedy Library at California Polytechnic State University at San Luis Obispo, California. It contains over 600,000 books, as well as serials, maps, documents, media, computer software, senior projects, and Cal Poly master's theses. The system software is from CLSI.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

"telnet" to "library.calpoly.edu" (129.65.20.21). At the menu, select "l" for Polycat, and follow the instructions on the screen. The escape character is "control-d".

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

The online catalog has open access. However, the Kennedy Library reserves the right to restrict access to local patrons, should that be necessary.

The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

oBS+ Polycat provides circulation status, and supports browse and keyword searching, truncation, and limits by language, material type, and/or publication date.

oBS+ For help with search strategies, contact the Reference Department, (805) 756-2649.

oBS+ An electronic suggestion box is available.

FF

OASIS - University of Iowa Libraries

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
University Libraries
University of Iowa
Iowa City, IA 52242

_BSE_BSm_BSa_BSi_BSl: Susanne-Olson@uiowa.edu

_BSP_BSh_BSo_BSn_BSe: (319) 335-5031

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Currently OASIS contains more than 1,000,000 bibliographic records. These records represent (1) all cataloged items in the Main Library and the eleven departmental libraries published since 1980 (along with many older books and journals), and (2) all Law Library materials except some Iowa documents in microfiche format and all U.S. government documents.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

To access OASIS using IBM 3270 emulation: TN3270 to "uidpjes2.adp.uiowa.edu"

To access OASIS using Telnet: "telnet" to "oasis.uiowa.edu"

After connection is made, press "return" to display a menu of available systems. Type the number "1" for OASIS access and press "return".

To disconnect: Type "STOP" at any command prompt.

Availability: The OASIS online catalog can be searched Monday through Thursday from 7:30 a.m. to 2:30 a.m.; Friday and Saturday from 7:30 a.m. to 12:30 a.m.; and Sunday from 9:00 a.m. to 2:30 a.m. (Iowa is in the Central Time Zone.)

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

Access to LCAT and CRLC is unrestricted. Help screens are available. Access to WILS requires a valid University of Iowa ID.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For questions concerning network access, contact:
Weeg Computing Center User Consultants
(319) 335-5530

For questions concerning OASIS system use, contact:
   Main Library
   (319) 335-5299

FF

BUBL - The Bulletin Board for Libraries

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
   Dennis Nicholson
   Systems Division
   Strathclyde University Library
   101 St James' Road
   Glasgow
   Scotland

United Kingdom
G4 ONS

_BSE_BSm_BSa_BSi_BSl: cijs03@vaxa.strathclyde.ac.uk

_BSP_BSh_BSo_BSn_BSe: 041 552 3701 ext 4132

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

BUBL is the BUlletin Board for Libraries on JANET, the Joint Academic NETwork in the U.K. BUBL collects information of interest to network- using librarians and their users. A major aim is to provide librarians with information on services and resources on JANET and other networks (e.g., the European IXI network and the world-wide Internet). However, BUBL also covers items of general interest to librarians. Moreover, it is increasingly used by non-librarians - lecturers, students, and others - for the guidance it provides on finding and using networked resources and services. Most BUBL users are from the U.K. However, there are known users in several other countries, including Sweden, the Netherlands, Canada, Hong Kong, and the U.S.A.

BUBL is run by the Universities of Strathclyde and Glasgow on behalf of JUGL, the JANET User Group for Libraries. It is partially supported by the Information Systems Committee of the Universities Funding Council and by private sponsorship, but is run on a mainly voluntary basis by the two universities. The user interface is provided by a software package called 'USERBUL'(copyright Leicester University and NISS). This allows information to be accessed through a series of menus and sub-menus. However, since the hierarchical

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structure is apparent rather than real, users need not "climb" or "descend" 'through menus in order to reach the files or menus they desire. It also allows users to search large files by keyword, to transfer information to their host machine via electronic mail using the POST command, to send a message to the editor, or to display various kinds of online help. Versions of this software are also used by the humanities bulletin board HUMBUL and by the NISS (National Information on Software and Services) bulletin board.

Sections of particular interest are:

B electronic reference works of various kinds, including manuals, guides, descriptions of networked services, bibliographies of networking

C recent LIS publications with abstracts(courtesy of Book Data and others)

D national and international e-text directories covering opacs, information services, electronic mail addresses, scholarly discussion lists, and resources in general

E the most recent contents pages of over 70 LIS journals.

H users information, including information from LIS organisations, news, items for sale, results of surveys

S electronic journals and texts, including sources of electronic text, a directory of electronic journals and newsletters, some electronic journals in the LIS field, and related items

V library systems and software items, including examples of Operational Requirements for library computing systems

Z Special user education team run by the Loughborough LIS Computers In Teaching team

Information on the bulletin board is updated on a daily basis, and update bulletins are sent out once or twice weekly to the 680 plus members of the LIS-link electronic mail discussion list on JANET.

The British Library Research and Development Division has recently funded a six-month study into the future of BUBL. The study aims to investigate how BUBL's role and, consequently, its coverage and facilities should be developed in the next few years, and to produce a coherent, co-ordinated and costed short to medium term development plan as a guide to future efforts.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

To access BUBL from the internet:
telnet sun.nsf.ac.uk or 128.86.8.7
login: janet

At the "hostname:" prompt, type uk.ac.glasgow.bubl

At the "terminal type" prompt, enter vt100

(a password is not required)

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSB_BSU_BSB_BSL

No restrictions. Aim is to serve library and information workers in particular, but also to serve the wider networking community by providing access to directories and other publications which facilitate resource access.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Regular bulletins describing additions and updates to the service are sent to the members of the LIS-link email discussion list. Note, however, that there is a restriction on non-UK membership of this list. UK residents may join the list by sending the message:

Join lis-link Firstname Lastname

to: mailbase@uk.ac.mailbase

Non-UK residents should contact cijs03@vaxa.strath.ac.uk before joining the list.

FF

WUGate Services - Washington University
Library/Database Access System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Office of the Network Coodinator
Washington University Campus Box 1048
One Brookings Drive
St. Louis, Missouri 63130-4899

_BSE_BSm_BSa_BSi_BSl: services@wugate.wustl.edu

_BSP_BSh_BSo_BSn_BSe: (314) 935-9022

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

WUGate's services is a captive account providing telnet access to 200 library and database systems on the Internet. Included are connections to databases from the FDA, NASA and many universities. Libraries at Boston University, the University of California System and others offer catalog services via the Internet and may be reached using WUGate services. Several public libraries are also accessible along with bulletin board systems, weather updates, campuswide information systems and tools for navigating the Internet produced by many different organizations.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

WUGate is accessible by telnet to wugate.wustl.edu (128.252.120.1). Login as services, no password is required.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSW_BSU_BSG_BSa_BSt_BSe _BSS_BSe_BSr_BSv_BSi_BSc_BSe_BSs

Anyone may use WUGate services freely at any time.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Since many systems accessible by WUGate services are auto baud, press return several times to get a response. Systems may use IBM3270 emulation. If a connection accessed using

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services does not exit gracefully, use control-] to escape.

Whenever possible, each WUGate services entry includes a short description of the remote library/database system with a contact name. Some systems require passwords and fees. Contact the remote system for details.

All remote systems accessible via WUGate services can be reached directly using telnet. To telnet directly to a remote system use the address given in the menu.

If you have a resource to add to WUGate services, send E-mail to services@wugate.wustl.edu. Include a short descrip-

tion on how to access your system.

WUGate services main menu:

1. About Washington University Services
2. Washington University Services
3. United States Libraries
4. Foreign Libraries
5. Government Libraries and Public Accessible Databases
6. Campus Wide Information Systems
7. All Services
8. Recent Additions
9. Weather Forecast for US/Canada
10. QUIT the Washington University Services program

FF

TWU Woman's Collection - Texas Woman's University Library

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Texas Woman's University Library
P.O. Box 23836
Denton, TX 76204

_BSE_BSm_BSa_BSi_BSl: s_letson@twu.edu

_BSP_BSh_BSo_BSn_BSe: 817-898-3754

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Texas Woman's University Library has revived its newsletter DATA ENTRIES and is making it available in electronic form through free subscription over the Internet.

DATA ENTRIES will cover events at the Mary Evelyn Blagg-Huey Library in Denton, Texas, as well as developments in public services and the Woman's Collection.

Perhaps it's not surprising that Texas Woman's University in Denton, Texas, has a "woman's" collection in the library, but the fact that this collection is among the finest in the nation. Begun in 1932, the Woman's Collection contains more than 42,000 books and periodicals, 2500 feet of manuscript and archival records, and approximately 20,000 photographs.

Historical manuscripts include the personal papers of Hermine Tobolowsky, the "Mother of the Texas Equal Legal Rights Amendment," Sarah Weddington (Roe v. Wade), and authors Claire Myers Owens, LaVerne Harrel Clark, and Edith Deen. In addition, the library has collected the records of significant women's organizations such as the Texas Federation of Women's Clubs, The Texas Federation of Business and Professional Women, the American Association of University Women (Texas), and the Texas state archives of Delta Kappa Gamma. In addition, to add to its growing collection on women in the military, TWU acquired the records of the WASP, Inc., the veterans organization for the Women's Airforce Service Pilots who flew during World War II.

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The Cookbook and Menu Collection is one of the major collections in the world, with approximately 12,000 volumes.

To subscribe to the quarterly newsletter, simply send a note requesting a subscription to: s_natale@twu (BITNet) or s_natale@twu.edu (Internet).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

To access the Texas Woman's University Library Collections via Internet:

1. TELNET to TWU.EDU
2. At the USERNAME: prompt enter IRIS
3. At the login: prompt press ENTER

4. At the ONLINE CATALOG Menu enter 1
To exit enter E from the Main Menu, then enter 3

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSL_BSi_BSb_BSr_BSa_BSr_BSy

Anyone can use the Library.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

TWU, the largest university primarly for women in the U.S, has approximately 10,000 students and is located 35 miles north of the Dallas-Fort Worth metroplex. The Library houses more than three-quarters of a million items. For questions about the Woman's Collection, contact Dawn Letson 817-898-3754 or at s_letson@twu.edu (Internet).

FF

SABIO - The University of Arizona Library's Information System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Administrative Office
A349 Main Library
University of Arizona
Tucson, AZ 85721

_BSE_BSm_BSa_BSi_BSl:
Mohamed Taleb <talebm@ccit.arizona.edu> (Systems Librarian)
Stuart Glogoff <sglogoff@ccit.arizona.edu> (AUL/Systems)

_BSP_BSh_BSo_BSn_BSe: (602) 621-6441 Library Information
FAX: (602) 621-9733

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

SABIO is a Spanish word meaning Wise One or Learned One, and is the name of the University of Arizona Library's Information System.

SABIO went public in December 1992 and is being implemented in stages. When completed in June 1993, SABIO will offer approimately 2 million bibliographic records from the following UA Libraries: Main Library, Science-Engineering Library, Music Library, and Center for Creative Photography Library. The collections to the Architecture Library and College of Law Library will be loaded during the summer/fall of 1993. At the time this entry was written, there were 1.5 million records in SABIO. SABIO has online information screens that users are asked to consult to the most recent information. Select I > Library Information off the main menu.

SABIO, which uses Innovative Interfaces, Inc., software, runs on two DEC VAX 5900. It features a highly functional Online Public Access Catalog (OPAC) which provides: search capabilities by keyword, author, title, subject, call numbers and government documents numbers; up-to-the-moment circulation status; order information for books not yet received; journal holdings information; course reserve

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lists; an EXPORT features to create bibliographies in ascii, MARC and Pro-Cite formats; an Internet gateway to remote library OPACs and databases; locally mounted commercial databases (available to the University Community only); local databases; Spanish languages menus; Chinese, Japanese and Korean characters displayed via specially equipped microcomputers; and access to the CARL UnCover service.

Beginning in the fall 1993, the Library will be loading the Marchive database to government publications, and bibliographic records to its dissertations.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Internet access: telnet sabio.arizona.edu

Dial-in access: 2400 baud (602)621-4141
Dial-in access: 9600 bps (602)621-6633

   At the terminal server prompt, type "telnet sabio".
   Follow the online login instructions.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSS_BSA_BSB_BSI_BSO

Access to SABIO is open to the public. Only the access to commerical databases mounted on SABIO is restricted to the University Community.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Buckyballs, a local database that was mounted on SABIO in December 1992, may be of interest to many readers. It is a unique bibliography on buckminsterfullerenes (AKA: Carbon 60), that is maintained by members of the U of A Physics Department. Buckyballs can be accessed from SABIO's main menu option, O> Other Libraries and Databases. It is searchable by SABIO's main search engine and is presently updated monthly. The Buckyballs file is available via anonymous ftp. Consult the Buckyballs Information screen on SABIO for the ftp information as well as a general description of the Buckyballs database.

Chapter 3: Data Archives

The Internet is home to a wide variety of data archives. In this section we try to list the more important and the more uncommon archives. In particular, we do not list archives of mailing lists, other than those that do software distributions. Such archives can be located by asking the maintainers of the mail lists.

Contents

3.1 GENE-SERVER [Aug92]

3.2 LiMB - LIsting of Molecular Biology Databases [Aug92]

3.3 MEMDB - Medieval and Early Modern Data Bank [Sep92]

3.4 Netlib Mathematical Software Distribution System [Jun90]

3.5 SIMBAD - Astronomical Data - US Gateway [Jul89]

3.6 SIMTEL20 - The Public Domain, Shareware, and Documentation Archives [Aug92]

3.7 SDDAS - Southwest Research Data Display & Analysis System [Apr92]

3.8 IBM Supercomputing Program Data Base [Jun89]

3.9 VxWorks Users Group Archive [Apr90]

3.10 WUArchive - Washington University Public Archives [Dec92]

3.11 [Transferred] Matrix of Biological Knowledge Archive-Server [Sep90]

3.12 COSMIC - Software Distribution Center for NASA [Jun92]

3.13 IuBio Archive for Molecular and General Biology [Sep92]

3.14 PENpages [Jul92]

3.15 Dartmouth Dante Database [Apr90]

3.16 DDN Network Information Center SERVICE Mail Server [Jun90]

3.17 NICOLAS - The NASA Network Information Center [Oct92]

3.18 MATLAB User Group Archive [Sep90]

3.19 Statlib - Statistical Software and Data Distribution System [Mar91]

3.20 MBCRR - Molecular Biology Computer Research Resource [Apr91]

3.21 NED - NASA/IPAC Extragalactic Database [Aug92]

3.22 INFO-SOUTH - Latin American Information System [Aug92]

3.23 UCAR/Unidata - An NSF-Funded Data Software Center for Universities [Aug92]

3.24 INFO - University of North Carolina at Chapel Hill INFO Service [Mar91]

3.25 Archie - The McGill School of Computer Science Archive Server Listing Service [Apr91]

3.26 LADB - Latin America Data Base [Aug92]

3.27 NSF STIS - Science and Technology Information System [Jun92]

3.28 ICDL - Online Database of the International Center for Distance Learning [Feb93]

3.29 Bibliographic Mailserver for Artificial Intelligence Literature [Aug91]

3.30 General Accounting Office Reports [Aug91]

3.31 List of Lists [Aug91]

3.32 FEDIX and MOLIS - Federal Information Exchange [Dec91]

3.33 The University of Michigan Software Archives [Jun92]

3.34 Mid-RTTC - Mid-Continent Regional Technology Transfer

Center [May92]

3.35 EMBL - Data Library Network Servers [Sep92]

3.36 ECIX - Energy and Climate Information Exchange File Distribution Service [Oct92]

FF

GENE-SERVER

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Dr. Dan Davison
BCHS-5500
Dept. of Biochemical and Biophysical Sciences
University of Houston
4800 Calhoun, Houston, Tx, 77204-5500

_BSE_BSm_BSa_BSi_BSl: davison@uh.edu (Internet), DAVISON@UHOU (Bitnet)

_BSP_BSh_BSo_BSn_BSe: (713) 743-8366 (Dr. Davison)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Gene-Server is a mail response facility that will return a specific GenBank (tm) entry requested via e-mail.

Other Services:

The server now distributes Protein Information Resource (PIR, also known as NBRF) protein sequence database entries. The VMS and ASCII versions of PIR are available for anonymous FTP as well as via Gopher.

Molecular biology software for Apple Macintosh, DOS, Unix and VAX-VMS computers is also available from the server.

A number of information files (the R. Roberts Restriction Enzyme database; sequence analysis reference, and such) are distributed.

The Matrix of Biological Knowledge Archive-Server files are now available only from this address.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The server can be accessed via e-mail on the Internet, BITNET, and UUCP networks. The addresses to use are:

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

gene-server@bchs.uh.edu (Internet)
bchs.uh.edu!genbank-server (Usenet)
gene-server%bchs.uh.edu@CUNYVM (BITNET)

Please be aware that a mail response program is not "smart" and can only respond to a limited set of commands. GenBank entries are available by name and accession number only.

Your request can consist of one of the following:

HELP
SEND HELP
SEND GB-LOCUS genbanklocusname
SEND INDEX indexname
SEND ACCESSION accession_number
SEND ACCESSION accessionnumber(s)
SEND KEYWORD genbankkeyword
SEND PIR-KEYWORD pirkeyword
SEND PIR-ACCESSION piraccessionnumber(s)

There are many other parameters for specific subsets of the Gene-Server, please see the individual HELP files.

"HELP" will result in a small help file being sent back; everyone should request the help message. The file will contain up-to-date information about the server, access, release numbers, and policies. The help message also includes all index names, so "SEND INDEX" no longer works. "SEND INDEX index_name" (where "index_name" is one of the index files listed in the HELP message) will work. "SEND LOCUS genbank_locus_name" will return via e-mail the requested locus if it exists, and an error message if it does not. Use the index file in the HELP message to find the name of the entry, or use the accession number.

Note that large GenBank entries (Lambda, EBV, tobacco and liverwort chloroplasts) may not make it through the thread of mailers. UUCP mailers, in particular, silently enforce a limit of 64,000 characters in a single mail message. Note also that Usenet mail is very unreliable; you should consult the "pathalias" database to construct a mail path from your machine to bchs.uh.edu. A local Unix mail wizard may be able to help.

The Gene-Server itself silently enforces a limit of one megabyte on a reply. Please do not ask for a lot of software or data in a single message.

IMPORTANT NOTE: "gene-server@bchs.uh.edu" is an MX record. If you have problems reaching that address, ask your local system mail expert how to handle addresses that are "MX records." As a "very" last resort, send email to one of the addresses given above.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSG_BSe_BSn_BSe-_BSS_BSe_BSr_BSv_BSe_BSr

Anyone can use the catalog.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

The current version of GenBank on the server is Release 64. The server is updated as often as possible given funding (none) and disk space constraints. The server may be updated daily in the future.

Information and software is exchanged regularly with the European Molecular Biology Laboratory (EMBL) File Server,

and the molbio ftp sites, "ftp.bchs.uh.edu" and "nic.funet.fi"; but the specific files, syntax, and information vary between the four servers.

The server contains a simple response to someone asking for too many loci or otherwise abusing the service: it stops working for them.

Questions can be sent to davison@uh.edu (Internet) or DAVISON@UHOU(BITNET). Requests to talk to a human rather than a mail response program should be sent to archive-management@bchs.uh.edu. By popular demand, archive-managment@bchs.uh.edu also works.

This service is provided by the Institute for Molecular Biology, the Department of Biochemical and Biophysical Sciences, and is funded by the National Science Foundation.

The server is not funded or related in any with the DHHS, PHS, National Institutes of Health, or its contractors or subcontractors on the GenBank contract. GenBank is a trademark of the US Department of Health and Human Services, US Public Health Service.

FF

LiMB - LIsting of Molecular Biology Databases

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
LiMB
Group T-10, MS K710
Los Alamos National Laboratory
Los Alamos, NM 87545

_BSE_BSm_BSa_BSi_BSl: limb@temin.lanl.gov

_BSP_BSh_BSo_BSn_BSe: (505) 667-7510
FAX: (505) 665-3493

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The LiMB (LIsting of Molecular Biology databases) database

is a computer-based collection of information on molecular biology and related databases. LiMB is intended to facilitate locating and accessing these databases as well as to provide an ``overview'' that will help in developing a systematic, coordinated approach to designing, developing and maintaining these databases.

Each entry in LiMB currently consists of 57 fields, including: database staff names and addresses; database maintenance hardware and software; scope of coverage and database goals; details about submission and access to the data sets; database size; and types of data covered by the database. LiMB entries are based on questionnaires filled out by the database managers or, in the absence of a completed questionnaire, on secondary sources (e.g., a journal article). LiMB is currently maintained in a relational DBMS.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

LiMB is not available through direct network access. It can be sent via electronic mail.

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSL_BSi_BSM_BSB

There are no access restrictions for LiMB.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

LiMB Release 1.0 was issued in February, 1988, Release 2.0 in August, 1990, and Release 3.0 in July, 1992. LiMB is available in flat file format in hardcopy, on a PC- or Mac-formatted floppy disk or via email. Requests to receive LiMB can be sent via email, by phone or by U.S. Post. Please indicate in what form (hardcopy, floppy disk or email) it should be sent.

FF

MEMDB - Medieval and Early Modern Data Bank

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
The Medieval and Early Modern Data Bank
Department of History, CN 5059
Rutgers, the State University of New Jersey
New Brunswick, NJ 08903

_BSE-_BSm_BSa_BSi_BSl: 4212001@rutmvs1.rutgers.edu

_BSP_BSh_BSo_BSn_BSe: (908) 932-8493

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Medieval and Early Modern Data Bank is a resource project established at Rutgers University and co-sponsored by The Resource Libraries Group, Inc. Its aim is to provide

scholars with a continually expanding reference library of information concerning the medieval and early modern periods, circa A.D. 800-1800. Because MEMDB is a computer-based, electronic reference tool, it offers remarkable facilities for immediate information retrieval and manipulation.

In 1993 MEMDB will become available in CD-ROM, available at a modest charge and with regular updates through Rutgers or RLG. Its master data set will be vastly expanded. MEMDB's scope will extend to virtually any scholarly compilation of data that can be presented in a tabular form. New material to be incorporated will include information on such subjects as wages and prices, household size, mortality, property-holdings, charity, and nutrition, drawn from such sources as:

- taxation records
- wills and inventories
- parish records and vital statistics

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- company records
- import/export records
- household/estate accounts
- paleopathology studies

In addition, MEMDB will provide important scholarly reference aids, such as:

- glossaries of weights and measures
- gazetteers of Latin and vernacular place names
- calendars of dates.

_M_i_s_c_e_l_l_a_n_e_o_u_s

Development of on-line system in planning stage.

FF

Netlib Mathematical Software Distribution System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs: None

_BSE-_BSm_BSa_BSi_BSl: netlib@ornl.gov

_BSP_BSh_BSo_BSn_BSe: None

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Netlib is a system for distribution of mathematical software by electronic mail. To get information about Netlib, mail the following one-line message to netlib@ornl.gov.

send index

For background about Netlib, see Jack J. Dongarra and Eric Grosse, ``Distribution of Mathematical Software Via Elec-

tronic Mail,'' _BSC_BSA_BSC_BSM (1987) Vol. 30, pp. 403-407.

The Netlib library includes the following software collections (for details on each, see the index message).

a - approximation algorithms (almost empty, but soon to grow)
alliant - set of programs collected from Alliant users
apollo - set of programs collected from Apollo users
benchmark - various benchmark programs and a summary of timings
bihar - Bjorstad's biharmonic solver
bmp - Brent's multiple precision package
cheney-kincaid - programs from the text Numerical Mathematics and Computing.
conformal - Schwarz-Christoffel codes by Trefethen, Bjorstad & Grosse
core - machine constants, blas
domino - communication and scheduling of multiple tasks; Univ. Maryland
eispack - matrix eigenvalues and vectors
elefunt - Cody and Waite's tests for elementary functions
errata - corrections to numerical books
fishpack - separable elliptic PDEs; Swarztrauber and Sweet
fitpack - Cline's splines under tension

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fftpack - Swarztrauber's Fourier transforms
fmm - software from the book by Forsythe, Malcolm, and Moler
fn - Fullerton's special functions
gcv - Generalized Cross Validation
go - ``golden oldies,'' gaussq, zeroin, lowess, ...
graphics - ray-tracing harwell - MA28 sparse linear system
hompack - nonlinear equations by homotopy method
itpack - iterative linear system solution by Young and Kincaid
lanczos - Cullum and Willoughby's Lanczos programs
laso - Scott's Lanczos program for eigenvalues of sparse matrices
linpack - gaussian elimination, QR, SVD by Dongarra, Bunch, Moler, Stewart
lp - linear programming machines - short descriptions of various computers
microscope - Alfeld and Harris' system for discontinuity checking
minpack - nonlinear equations and least squares by More, Garbow, Hillstrom
misc - everything else
na-digest - archive of mailings to NA distribution list
napack - numerical algebra programs
ode - ordinary differential equations
odepack - ordinary differential equations from Hindmarsh
paranoia - Kahan's floating point test
pchip - hermite cubics Fritsch & Carlson
pltmg - Bank's multigrid code; too large for ordinary mail
polyhedra - Hume's database of geometric solids port - the public subset of PORT library

pppack - subroutines from de Boor's Practical Guide to Splines
quadpack - univariate quadrature by Piessens, de Donker, Kahaner
siam - typesetting macros for SIAM journal format
slatec - machine constants and error handling package from the Slatec library
sparse - a set of c codes for sparse systems of equations
sparspak - George + Liu, sparse linear algebra core
specfun - transportable special functions
toeplitz - linear systems in Toeplitz or circulant form by Garbow
toms - Collected Algorithms of the ACM
y12m - sparse linear system (Aarhus)

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Send electronic mail to netlib@ornl.gov. Although mes-
sages will be returned by netlibd@mcs.anl.gov, please do
not mail to that address.
Additional copies of the server run at:

netlib@research.att.com in New Jersey
netlib@nac.no in Oslo, Norway
netlib@draci.cs.uow.edu.au in Australia

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSa_BSt_BSa_BSl_BSo_BSg

Anyone can use any of the servers.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Eric Grosse
AT&T Bell Labs 2T-504
Murray Hill NJ 07974
(201) 582-5828

ehg@research.att.com

FF

SIMBAD - Set of Identifications, Measurements and Bibliography for Astronomical Data - U. S. Gateway

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
SIMBAD c/o Computation Facility
Smithsonian Astrophysical Observatory
60 Garden St., MS 39
Cambridge, MA 02138

_BSE_BSm_BSa_BSi_BSl: simbad@cfa.harvard.edu (Internet)
CFA::SIMBAD (NASA SPAN)
SIMBAD@CFA (BITNET)

_BSP_BSh_BSo_BSn_BSe: (617) 495-7301
FAX: (617) 495-7005

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

SIMBAD is a complete database for observational data and bibliographic references accessible by the name or number of the astronomical object. It is nearly complete to 1950 for

stars and to 1983 for non-stellar objects. It excludes solar system objects. It contains information from all major astronomical journals and catalogs and is also useful in providing a complete cross-reference of identifications for an object or for searches of known objects around a coordinate position. SAO is the official NASA agent in the U.S. for this resource. The database is maintained in France by the Centre de Donnees astronomique de Strasbourg (CDS). SAO provides administrative, network, and user assistance in the U.S.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Via the internet or NASA's NSI-DECnet network (details sent when an account is established). A BITNET request service and dial-in access may be offered in the future, as personnel time becomes available. (This is an interactive database.)

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSS_BSI_BSM_BSB_BSA_BSD

NASA-funded accounts (in France) are restricted to groups with a NASA or NSF contract. Other individuals must use the resource in collaboration with a group qualifying under the above conditions

FF

SIMTEL20 - The Public Domain, Shareware, and Documentation Archives

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
SIMTEL20 Host Administrator
STEWS-IM-S, Bldg. 1408
White Sands Missile Range, NM 88002-5506

_BSE_BSm_BSa_BSi_BSl: ACTION@WSMR-SIMTEL20.ARMY.MIL

_BSP_BSh_BSo_BSn_BSe: (505) 678-1011, DSN: 258-1011
FAX: (505) 678-1496, DSN: 258-1496

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

WSMR-SIMTEL20.ARMY.MIL is a 4MW DECSYSTEM-20 Model 2065 computer owned and operated by the US Army, White Sands Missile Range, New Mexico. SIMTEL20 has several disk structures containing public domain, shareware, documentation, and mail archives with the following top-level directory names:

PD1:<MSDOS> large, actively maintained MS-DOS collection

PD2:<ARCHIVES>	mail archives for various mailing lists
PD2:<CPM>	CP/M collection
PD2:<CPMUG>	CP/M User Group collection
PD2:<SIGM>	SIG/M collection (CP/M)
PD2:<ZSYS>	Z/SYS CP/M alternative
PD4:<NICDOCS>	NIC documentation mirror
PD6:<LINUX-OS>	An alternative Unix
PD6:<UNIX-C>	Unix and C programs
PD7:<ADA>	the Ada Software Repository
PD7:<STARS>	STARS (Ada) releases
PD7:<VHDL>	fledgling VHDL collection
PD8:<HZ100>	Heath/Zenith-100 computer collection
PD8:<MISC>	cross-OS and miscellaneous files
PD9:<MACINTOSH>	Macintosh collection

Most top-level directories contain at least one or more sub-directory levels, and several files with common names:

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FILES.IDX	comma-delimited entries for each file
top-dir.CRCLST	a CRC listing of each file
top-dir.ARC	an ARC format version of top-dir.CRCLST
top-dir.DIRLST	a quick-reference list of the sub-dir names

The syntax to reference a file in one of the collections is:

PDn:<top-dir.sub-dir>file.type

The files in the above collections are accessible via ANONYMOUS FTP. The ANONYMOUS login directory holds several files containing detailed information on the collections in general as well as files specific to certain collections.

The MSDOS, MISC, and CP/M collections are maintained by Keith Petersen (W8SDZ), who makes periodic announcements of new releases to the INFO-IBMPC and INFO-CPM mailing lists.

The UNIX-C and LINUX-OS collections are maintained by John Pliler (JPLILER), with periodic announcements of new releases made to the UNIX-SW mailing list.

The MACINTOSH Collection is maintained by Bob Thum (RTHUM), Stan Sobczynski (STAN), and John Mitchener (JMITCHENER), based on announcements made on several Macintosh-related

mailing lists.

The CPMUG, SIGM, ZSYS, HZ100, Ada, STARS, and VHDL collections are no longer actively maintained and are offered as-is.

Each mailing list mentioned above have administrative addresses of the form listname-REQUEST@WSMR-SIMTEL20.ARMY.MIL to take requests for additions, changes, and deletions to the lists.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

SIMTEL20 is connected to the MILNET and NSFNET at 192.88.110.20. Use FTP to connect and log in as "anonymous" with any "password". The number of simultaneous ANONYMOUS FTP jobs is limited to nine between 5am and 3pm Mountain Time (GMT-7) weekdays and 27 all other times.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSS_BSI_BSM_BST_BSE_BSL_BS2_BS0

In addition to freely available ANONYMOUS FTP access, flat-

fee subscriptions are available for individual access by any federal agency or contractor. For further information on arranging for an account, contact Elwood Baas (EBAAS@WSMR-SIMTEL20.ARMY.MIL) at DSN: 258-1011 or 505-678-1011. Group discounts are available.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

SIMTEL20 files are also available from the following mirror sites:

OAK.Oakland.Edu (141.210.10.117)
wuarchive.wustl.edu (128.252.135.4)
ftp.uu.net (137.39.1.9)
nic.funet.fi (128.214.6.100)
src.doc.ic.ac.uk (146.169.3.7)
archie.au (139.130.4.6)
nic.switch.ch (130.59.1.40)

The files in the SIMTEL20 collections can be indirectly accessed using LISTSERV commands from BITNET via LISTSERV@NDSUVM1 or LISTSERV@RPIECS. In Europe, similar indirect access is available through the EARN TRICKLE servers by sending commands to TRICKLE@<host-name> (example: TRICKLE@TREARN). The following TRICKLE servers are presently available:

AWIWUW11	(Austria)
BANUFS11	(Belgium)
DKTC11	(Denmark)
DB0FUB11, DS0RUS1I and DTUZDV1	(Germany)
EB0UB011	(Spain)
FRMOP11	(France)
HEARN	(Netherlands)
IMIPOLI	(Italy)
TAUNIVM	(Israel)
TREARN	(Turkey)

The MS-DOS collection is available on CD-ROM bundled with library card-catalog type access and duplication software from

Coyote Data, Ltd.
1142 N. Main
Rochester, MI 48307
(313) 651-4071

Several inexpensive CD-ROMs are available from

Walnut Creek CDROM
1527 Palos Verdes Mall, Suite 260
Walnut Creek, CA 94596
Robert Bruce (rab@sprite.Berkeley.EDU), (510) 947-5996

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

See the files in the ANONYMOUS login directory on WSMR-SIMTEL20.ARMY.MIL. Be sure to read SIMTEL-ARCHIVES.INFO first.

FF

SDDAS - Southwest Research Data Display & Analysis System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Southwest Research Institute (SwRI)
Division of Instrumentation and Space Sciences
P.O. Drawer 28510
San Antonio, TX 78228-0510

_BSE_BSm_BSa_BSi_BSl: sddas-help@swri.edu

_BSP_BSh_BSo_BSn_BSe: (512) 522-3259

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The SDDAS maintains a large optical disk database of data returned by the Dynamics Explorer satellites 1 & 2. It provides interactive tools for displaying this data in various ways and selected subsets may be acquired via anonymous FTP. This data is primarily used by those doing research in space physics, magnetospheric physics, and the dynamics of the upper atmosphere. The measurements are classified as follows: DC magnetic field; AC electric field; particles; electron and ion ionospheric temperature and density; ion composition and drift; thermal neutral drift, composition, density, and temperature.

Network Access

Access is made via TELNET to espsun.space.swri.edu using port 10000. One may also request a private account if extensive use is projected. NASA sponsored investigators may access this system through the NASA Master Directory on host nssdca.gsfc.nasa.gov. X-window system servers are supported for graphical displays.

Who Can Use

A potential user must receive verbal authorization from Dr. J. D. Winningham (512-522-3075 or dwinningham@swri.edu) before making use of this resource. A User's Guide will be

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sent to each authorized user. There are no restrictions on who may use this system, except that credit must be given in any publications that result from its use. There is also a limit of 8 users at any one time.

Miscellaneous

A detailed list of the data holdings may be requested from sddas-help@swri.edu. The database server is a SUN SPARCserver 330, soon to be upgraded with additional CPUs. The SDDAS software is available to qualified users for installation on their own workstations. Immediate plans involve the addition to the archive of particle and field measurements from the Upper Atmosphere Research Satellite.

FF

IBM Supercomputing Program Data Base

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Supercomputing Support Office
University of Illinois at Chicago
Computer Center (mail code 135)
Box 6998
Chicago, IL 60680

_BSE-_BSm_BSa_BSi_BSl: supersft@uicvm

_BSP_BSh_BSo_BSn_BSe: (312) 996-2981

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The IBM Supercomputing Program Data Base is a listing of information concerning programs that have been written or converted to use IBM 3090 vector or parallel processing. The data base is maintained by the Computer Center at the University of Illinois at Chicago with support from IBM. Data provided for each program include the program's application area, name, a description, the environment under which it operates, the person to contact for more information and the approximate cost for academic user. The programs themselves are not available through the data base. The data base is referred to as ``supersft'' for ``supercom-

puting software.''

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

This data base is accessible to other universities through BITNET and the Internet. A LISTSERV virtual machine named SUPERSFT has been established at UIC for easy retrieval of the information.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSD_BSa_BSt_BSa_BSb_BSa_BSs_BSe

Access to the database is open to anyone with a BITNET or Internet connection. Access to the programs described in the database is controlled by their owners.

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Three files available through this LISTSERV provide information about the data base, an index to the data base, and a form for submission of information. To receive these files, issue the following commands from a VM system on BITNET:

```
tell listserv at uicvm get supersft help  [for the help file]
tell listserv at uicvm get supersft index [for the index]
tell listserv at uicvm get supersft form  [for the submission form]
```

If you do not use a VM system, send a standard note addressed to ``listserv at uicvm'' if you're on BITNET or ``listserv@uicvm.cc.uic.edu'' if you're on the Internet. The note should contain just the appropriate LISTSERV commands, such as

```
get [filename1 filetype1]
get [filename2 filetype2]
```

substituting the names of the files of interest.

Submissions to the data base can be made either electronically or by mail. The information submission form is in the file named SUPERSFT FORM mentioned above.

FF

VxWorks Users Group Archive

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Richard Neitzel
National Center for Atmospheric Research
Box 3000
Marshall Field Site
Boulder, CO 80307

_BSE-_BSm_BSa_BSi_BSl: thor@thor.atd.ucar.edu

_BSP_BSh_BSo_BSn_BSe: (303) 497-2057

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Source code and other related items for users of the VxWorks real-time operating environment. The archive is set up as a mail-based server. First time users should send a email message to vxworks_archive@ncar.ucar.edu with the following as the message (not subject):

    send index.

Anonymous FTP may also be used to access the archive. Files are in the pub/unix and pub/vx directories. The FTP address

is thor.atd.ucar.edu (128.117.81.51).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

For submissions: Send email to thor@thor.atd.ucar.edu or FTP to pub/incoming. Please send an email note to inform the maintainer when you deposit something via FTP.

To access the archive server, send email to vxworks_archive@ncar.ucar.edu.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSA_BSr_BSc_BSh_BSi_BSv_BSe

The archive is open to anyone having an interest in VxWorks.

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The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

The mail server will not accept submissions; these must be sent to the archiver or deposited via FTP.

For interested parties, 1/2" and 1/4" tape can be used if the tape is sent to the address listed above.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Alternate phone number: 303-497-2060

Please do not send requests for the server to the archiver- it makes him cranky!

FF

WUArchive - Washington University Public Archives

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Washington University
Washington University Campus Box 1048
Office of the Network Coordinator
One Brookings Drive
St. Louis, MO 63130-4899
USA

_BSE_BSm_BSa_BSi_BSl: archives@wugate.wustl.edu

_BSP_BSh_BSo_BSn_BSe: +1 314 935 9022

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

A huge (over 7 gigabytes compressed) archive of public domain and shareware software including complete collections of most of the source and binary groups from USENET. Also maintained in the archive is the complete source to TeX and the X windowing system (Version X11R5) and all of the GNU Project Software. Current symposia tapes from the Digital Equipment Computer Users Society and other DECUS releases are accessible from WUArchive. In addition, a complete set

of Request for Comments (RFCs) and Internet Experiment Notes (IENs) from the Internet Engineering Task Force are contained in the archives.

Other items maintained in the archives include:

- More than a gigabyte of MSDOS software
- More than 600MB of Macintosh software
- One of the Internet's best Amiga software collections
- The public portions of source code to BSD UNIX, 386BSD and Mach.

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- Collection of GIF (Graphic Interchange Format) pictures
- The Internet Resource Guide

Network Access

WUArchive is accessible through anonymous FTP from wuarchive.wustl.edu [128.252.135.4]. The archives are also available for mounting over the Internet via NFS.

Who Can Access the Archive

Anyone may use WUArchive freely, 24 hours a day, 7 days a week.

Miscellaneous

To save space, most of the files in the archive are compressed using the UNIX 'compress' utility. WUArchive's FTP server can uncompress files on the fly if you do not have access to UNIX COMPRESS.

Useful files:

- /info/arrangement - shows current structure of the archives with short explanations. Other useful infor-

mational files are also in the /info directory.

- README and README.NFS - general information and information about NFS mounting of WUArchive.

Mailing list:

- A mailing list has been created for the purpose of notifying interested persons of changes in status of WUArchive (downtimes, major additions, etc.). Sites which NFS mount the archives are strongly urged to subscribe to this list. Subscription is open to anyone. To subscribe, send an E-mail message to listserv@wugate.wustl.edu with the message body:

  add wuarchive-announce

[Transferred] Matrix of Biological Knowledge Archive-Server

All of the functions of this server have been transferred to the gene-server@bchs.uh.edu: see entry 3.1 of the "Internet Resource Guide".

The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

FF

COSMIC - Software Distribution Center for NASA

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
The University of Georgia
382 East Broad Street
Athens, GA 30602

_BSE_BSm_BSa_BSi_BSl: service@cossack.cosmic.uga.edu

_BSP_BSh_BSo_BSn_BSe: (706) 542-3265
FAX: (706) 542-4807

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

COSMIC is the distribution center for computer software created under funding from the National Aeronautics and Space Administration (NASA). The inventory contains over 1200 programs. Collections of program abstracts can be mailed within the U.S. at no cost in the following areas: Aerodynamics; Artificial Intelligence; CAD/CAM; Composites; Computational Fluid Dynamics; Control Systems; Finite Element Analysis; Heat Transfer; Image Processing; Optics; Project Management; Reliability; Satellite Communications; Scientific Visualization; Trajectories; Turbine Engineering; and Utilities. Additionally, COSMIC Customer Support

will perform a custom search of the inventory to help users identify programs in their area of interest and/or potential re-useable algorithms.

Most COSMIC programs come with the source code. Educational discounts may apply. Members of the Federal Laboratory Consortium qualify for the "Software Exchange" program; details are available on request.

New programs are added to the inventory on a monthly basis. Contact COSMIC by electronic mail to receive a brief description of new programs.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSC_BSO_BSS_BSM_BSI_BSC

Most new programs are restricted for U.S. distribution only.

The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

Older programs are available for limited international distribution.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Government-funded software is also distributed by:

- National Energy Software Center, (312) 972-7250
- National Technical Information Services, (703) 487-4807

FF

IuBio Archive for Molecular and General Biology

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Biocomputing Office
Biology Department
Indiana University
Bloomington, IN 47405

_BSE_BSm_BSa_BSi_BSl: Archive@FTP.Bio.Indiana.Edu

_BSP_BSh_BSo_BSn_BSe: none

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The IuBio Archive maintains publicly available biology software and data. Molecular biology is the area of concentration. The archive includes software for Macintosh, VAX-VMS, Unix, MS-DOS, and any other important computer operating systems. Contributions of broad interest in any area of biology, and related areas of chemistry and other sciences, are welcome.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

IuBio can be accessed via anonymous FTP file transfer over

the Internet. Use an Internet Gopher client to reach FTP.Bio.Indiana.Edu

"ftp FTP.Bio.Indiana.Edu"
"Name:" "anonymous"
"Password:" "yourname"

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSI_BSu_BSB_BSi_BSo _BSA_BSr_BSc_BSh_BSi_BSv_BSe

Anyone may use this resource, with the restriction that software or data obtained from the IuBio Archive may not be sold or repackaged.

The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Don Gilbert is currently maintaining this archive.

FF

PENpages

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Computer Services
The Pennsylvania State University
405 Agricultural Administration Building
University Park, Pennsylvania 16802

_BSE_BSm_BSa_BSi_BSl: SUPPORT@PSUPEN.PSU.EDU

_BSP_BSh_BSo_BSn_BSe: (814) 863-3449
FAX: (814) 863-7209

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

PENpages is an information service containing thousands of reports, newsletters, and fact sheets. The broad range of information, including agricultural science, human health, 4-H and youth development, family life, community development, and other consumer issues, is research-based and consumer-oriented. PENpages is supported and maintained by Penn State's College of Agricultural Sciences.

Information in PENpages is provided by College of Agricultural Sciences faculty and cooperators, including Penn

State's College of Health and Human Development, the Pennsylvania Department of Agriculture, USDA, and Rutgers-The State University of New Jersey.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

PENpages is available via Telnet (VT100 emulation) on host PSUPEN.PSU.EDU (128.118.36.5). At the system prompt "User-name:" please respond "PNOTPA."

It is also available through dial-in modems:
- Number: (814) 863-4820
- Speed: 300, 1200, 2400
- Settings: 8, 1, N
- Terminal: VT100/102

The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSP_BSE_BSN_BSp_BSa_BSg_BSe_BSs

PENpages is a free service available to anyone with Internet access. If you dial-in, you will have to pay for the telephone charges. A "PENpages User Guide" is available on line or can be obtained from the address listed above.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For additional information, please contact:
G. Art Hussey, Assistant Director (814) 863-3449

FF

Dartmouth Dante Database

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Dartmouth Dante Project
1 Reed Hall, HB 6087
Dartmouth College
Hanover NH 03755

_BSE_BSm_BSa_BSi_BSl: dante@dartmouth.edu

_BSP_BSh_BSo_BSn_BSe: (603)646-2633

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Dartmouth Dante database contains 600 years of line-by-line commentary to Dante's Divine Comedy, as well as the Petrocchi version of the poem itself. All texts are in their original languages (Italian, Latin, and English) with no translations. Ancient commentaries have been parsed for the users' convenience. The search program utilized is BRS/Search.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Domain name: dartmouth.edu
Machine address: eleazar (or 129.170.16.2)

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSD_BSa_BSt_BSa_BSb_BSa_BSs_BSe

Anyone may access the database. There are currently no fees connected with the service.

A public demonstration account (ddpdemo) is available, and personal/institutional accounts are available upon request. The database is accessible by direct modem connection, the Telenet network, or the Internet.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Janet Stephens (Administrator), siena@dartmouth.edu

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FF

DDN Network Information Center SERVICE Mail Server

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
SRI International
Network Information Systems Center, Room EJ291
333 Ravenswood Ave
Menlo Park, CA 94015

_BSE-_BSm_BSa_BSi_BSl:
Requests for information via mail: SERVICE@NIC.DDN.MIL
Questions and comments about SERVICE: BUG-SERVICE@NIC.DDN.MIL

_BSP_BSh_BSo_BSn_BSe: 1-800-235-3155 or (415) 859-3695

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

SERVICE is an automatic mail program provided by the NIC. It allows access to NIC online files and information via ordinary electronic mail. This is especially useful for people who do not have access to the NIC via a direct Internet link. Users can request publicly accessible files and searches in the WHOIS database via this server. Replies are batched and sent back overnight.

SERVICE looks only at the subject line of a message. These

are the services currently available:

HELP	A help message with a list of current services.
HOST xxx	Returns information about host xxx. WHOIS xxx can also be used to get more details about a host.
IEN nnn	nnn is the IEN number or the word INDEX.
NETINFO xxx	xxx is a file name or the word INDEX.
RFC nnn	nnn is the RFC number or the word INDEX.

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RFC nnn.PS	to retrieve an available Postscript RFC. Check RFC INDEX for form of RFC.
FYI nnn	nnn is the FYI number of the word INDEX.
FYI nnn.PS	to retrieve postscript versions of FYI files.
SEND xxx	xxx is a fully specified file name.
WHOIS xxx	Returns information about xxx from the WHOIS service. Use "WHOIS HELP" for information on how to use WHOIS.

Example SERVICE subject lines:

```
HELP
RFC 822
RFC INDEX
RFC 1119.PS
FYI 1
NETINFO DOMAIN-TEMPLATE.TXT
SEND RFC:ASSIGNED-NUMBERS.TXT
SEND DDN-NEWS:DDN-MGT-BULLETIN-72.TXT
HOST NIC.DDN.MIL
WHOIS NEOU, VIVIAN
```

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Access to SERVICE is via electronic mail.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSS_BSE_BSR_BSV_BSI_BSC_BSE

All users of the Internet and users on networks that can

send mail to the Internet can use the SERVICE mailbox.

FF

NICOLAS - NASA-Goddard's On-Line Network User Help System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Computer Network Branch
Code 933
NASA Goddard Space Flight Center
Greenbelt, MD 20771

_BSE_BSm_BSa_BSi_BSl: dftnic@dftnic.gsfc.nasa.gov

_BSP_BSh_BSo_BSn_BSe: (301) 286-9514
FAX: (301) 286-5152

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

NICOLAS (Network Information Center On Line Aid System) is a menu-driven network user help system that functions both as an information server and an inter-network gateway. As an information server, NICOLAS provides syntaxes for inter-network mail addressing, general information about wide-area networks, networking-related "how to" files, information on current NASA missions & projects, and a variety of network- and computer-related information of specific interest to the NASA-Goddard community. As an automated inter-network gate-way, NICOLAS enables users to log into their NASAMail and GSFCMail accounts, connect directly to a number of other on-line resources, and perform a variety of "yellow pages" functions.

NETWORK ACCESS

Access is made via TELNET to dftnic.gsfc.nasa.gov with the username "dftnic"; no password is required. Access can also be made in DECnet via SET HOST to DFTNIC.

WHO CAN USE NICOLAS:

Although NICOLAS is intended primarily for use by NASA employees, researchers, and contractors, all services are available to users of the Internet.

The information in this section is provided in accordance with the copyright notice appearing at the front of this guide.

MISCELLANEOUS

NICOLAS is hosted on a VAX 8250 which is accessible for remote logins via both TCP/IP and DECnet, and which is also a node on BITNET. Dial-up and X.25 access are also available; please contact the Computer Network Branch at GSFC for more information.

REFERENCES

ABOUT-NICOLAS.TXT is available via Anonymous FTP (in ascii mode) from

dftnic.gsfc.nasa.gov

It is also available via DECnet COPY from the path

DFTNIC::CLSCRATCH:[ANONYMOUS_USER.FILES]ABOUT-NICOLAS.TXT

FF

MATLAB User Group Archive

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Christian Bischof
Math and Computer Sciences Divison
Argonne National Labs
Argonne, IL 60439 USA

_BSE_BSm_BSa_BSi_BSl: bischof@mcs.anl.gov

_BSP_BSh_BSo_BSn_BSe: (708) 972-8875

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

This is a library of user-written functions, utilities, and other related items for users of the MATLAB numeric computation system. The archive is set up as a mail-based server. First-time users should send an email message with their email address to:

matlab-users-request@mcs.anl.gov

to be added to the distribution list for the MATLAB User Group Digest.

The archive includes directories for approximation theory, control theory, data analysis and statistics, graphics, numerical integration, linear algebra utilities, differential equations, zero-finding tools, and tools for classroom

instruction with MATLAB.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

For instructions and information on the archive contents, send the following one-line message to netlib@ornl.gov:

send index from matlab

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSA_BSr_BSc_BSh_BSi_BSv_BSe

The archive is open to anyone.

FF

Statlib Statistical Software and Data Distribution System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs: None

_BSE_BSm_BSa_BSi_BSl: statlib@lib.stat.cmu.edu

_BSP_BSh_BSo_BSn_BSe: None

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Statlib is a system for the distribution of software, datasets, and general information of interest to statisticians. To get information about statlib, mail the following one-line message to statlib@lib.stat.cmu.edu:

send index

The Statlib system is based on the netlib software of Dongarra and Grosse. The archives include the following information:

ESC9

S	S functions, device drivers and related software.
s-news	Archives of the S-news mail, in digest format.
general	software of general statistical interest.
apstat	Selected algorithms transcribed from _BSA_BSp_BSp_BSl_BSi_BSe_BSd _BSS_BSt_BSa_BSt_BSi_BSs_BSt_BSi_BSc_BSs
griffiths-hill	Applied Statistics algorithms contained in the book by Griffiths and Hill.

multi	Multivariate Analysis and Clustering. An annotated directory and selected algorithms.
crab	Kodiak Island king crab survey data.
datasets	Various datasets.
directory	Lists of addresses and e-mail addresses of statisticians.
xlispstat	Luke Tierney's XlispStat system for Unix systems.
disease	National Notifiable Diseases Data

ESC9

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_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Send electronic mail to statlib@lib.stat.cmu.edu. Although messages will be answered by statlibd@lib.stat.cmu.edu, please do not mail to that address.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSS_BSt_BSa_BSt_BSl_BSi_BSb

Anyone can use the system.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

For further information contact:

ESC9

Michael M. Meyer
Department of Statistics
Carnegie Mellon University
Pittsburgh, PA 15213
(412) 268-3108
mikem@stat.cmu.edu

ESC9

FF

MBCRR - Molecular Biology Computer Research Resource

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
MBCRR, LG-S127
44 Binney Street, Boston, Massachusetts 02115

_BSE_BSm_BSa_BSi_BSl: tsmith@mbcrr.harvard.edu

_BSP_BSh_BSo_BSn_BSe: (617) 732-3746

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Molecular Biology Computer Research Resource (MBCRR) is a federally funded national resource that combines molecular biology research and computer software development with on-line computer support and training to laboratories within and outside the Boston area.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

MBCRR can be reached from the Internet and from the Longwood Medical Area Network (LMAnet).

Who Can Use the Resource/Restrictions

1. Any non-commercial researcher has the right to download the available software in the "anonymous" FTP directory.

2. The on-line execution of software is restricted to password accounts
at $320.00 annually.

3. Commercial access is available for $1000.00.

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FF

NED - NASA/IPAC Extragalactic Database

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NED c/o IPAC
MS 100-22
California Institute of Technology
Pasadena, CA 91125

_BSE_BSm_BSa_BSi_BSl: ned@ipac.caltech.edu

_BSP_BSh_BSo_BSn_BSe: (818) 397-9503

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The NASA/IPAC Extragalactic Database (NED) is an ongoing project to organize a broad range of published extragalactic data into a computer-based central archive designed for fast and flexible query via electronic networks.

The June 1992 version of NED provides positions, names, and basic data for more than 200,000 extragalactic objects, as well as related bibliographic references and notes from catalogs and other publications. It forwards to the user, upon request, files containing the data retrieved during a session. It also allows users to view the contents of some major catalogs and to browse the abstracts of recent articles of extragalactic interest from several major journals (including A&A, AJ, ApJ, IAU Circulars, MNRAS, PASP, their Letters and Supplements). The current release also introduces the capability of searches filtered by object types

(e.g. find galaxies only, or exclude infrared sources), and provides the first phase of detailed data collection from catalogs and the literature.

NED is an object-oriented database, meaning that all information is organized around a master list of astronomical objects (such as galaxies, groups of galaxies, quasars and radio sources) obtained from detailed cross-identifications among some thirty major catalogs. Additional catalogs are being folded in continually. Objects can be selected by

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name (a high-level name interpreter is built into the interface), or by vicinity, either to a named object, or to a position on the sky.

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You may access the NED service over Internet, provided you have a VT100 terminal or VT100 emulation software.

On Internet, a connection to IPAC may be set up with the command: "telnet ned.ipac.caltech.edu"

Once you are connected to IPAC and prompted for a login, respond with: "NED"

No password is needed. From this point, the system is self-documenting, especially through the Help utilities and the "control-h" key sequence. First-time users may want to read the Tutorial in the first screen presented by the interface.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSR_BSe_BSs_BSo_BSu_BSr_BSc_BSe

Available at no charge to the international astronomical community.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

This work is carried out by the Jet Propulsion Laboratory, California Institute of Technology, under contract with the National Aeronautics and Space Administration (Astrophysics Division, Science Operations Branch).

George Helou (818) 584-2928
Barry Madore (818) 584-2912
Marion Schmitz (818) 584-2994
Harold Corwin (818) 584-2937

FF

INFO-SOUTH - Latin American Information System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
INFO-SOUTH
North-South Center
University of Miami
1500 Monza Avenue
P.O. Box 248014
Coral Gables, Florida 33124-3027

_BSE_BSm_BSa_BSi_BSl: Bitnet: Msgctr @umiami
Internet: Msgctr@sabio.ir.miami.edu

_BSP_BSh_BSo_BSn_BSe: (305) 284-4414
(800) 752-9567
FAX: (305) 284-5089

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The INFO-SOUTH Latin American Information System provides citations and abstract of materials on Latin America, including materials relating to the social, political and economic climate of this critical geographical area. Sources include newspapers and journals published in Latin America, the United States, and througout the world. Topics covered include: Agriculture, Banking, Commerce, Defense, Demography, Drug Trafficking, Ecology, Economics, Education, Elections, Finance, Foreign Affairs, Foreign Trade, Government, Human Rights, Informatics, Intelligence Activities, Marketing, Politics, Refugees, Science and Technology,

Sociology, and Terrorism.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet to host "sabio.ir.miami.edu" (129.171.32.26).

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSD_BSa_BSt_BSa_BSb_BSa_BSs_BSe

There is a charge for accessing INFO-SOUTH, and users can subscribe hourly or annually. Subscriptions are available

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for individuals and organizations. For more subscription information call (800) 752-9567.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

INFO-SOUTH maintains the full text copies of all citations included in the database. Users may order the full text of any article by telephone, fax, or E-mail. Please include the accession number and title of all articles requested.

FF

UCAR/Unidata - An NSF-Funded Data Software Center for Universities

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
UCAR/Unidata Program Center
P.O. Box 3000
Boulder, CO 80307

_BSE_BSm_BSa_BSi_BSl: support@unidata.ucar.edu

_BSP_BSh_BSo_BSn_BSe: (303) 497-8644
FAX: (303) 497-8690

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Unidata is a national program to help universities acquire weather data and to analyze and display those data for teaching and research. The program is funded by the National Science Foundation and managed by the University Corporation for Atmospheric Research. Unidata negotiates a group contract with a commercial data-broadcasting firm so that universities may receive weather data at a discount. Unidata develops and distributes software for capturing, analyzing, and displaying those data locally. Unidata also advocates on behalf of universities on data issues in Federal and other arenas.

Unidata-developed software includes the Unidata Local Data Manager (LDM), which captures real-time weather data from a satellite broadcast, and netCDF, a network-transparent, self-describing form for storing scientific data. The LDM

is being enhanced to allow users to capture and forward data over the Internet.

Unidata distributes applications software developed and licensed by universities. These are Purdue University's Weather Processor (WXP) and the University of Wisconsin's McIDAS-OS2 and McIDAS-X software. WXP and McIDAS-X are UNIX-based applications; McIDAS-OS2 runs on PS/2 computers with the OS/2 operating system. Unidata also distributes and supports the UNIX version of NASA's GEMPAK (for General

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Meteorological Package) and a UNIX-based, general-purpose data-analysis and image-processing research package called YNOT, developed by MacDonald Dettwiler under a Unidata contract.

Unidata provides bug fixes, upgrades, and software distributions over the Internet. Software support includes forming and maintaining special-interest mailing lists, offering advice on hardware acquisitions, and holding semiannual training workshops in the use of Unidata-supported software. Consultation with users is conducted via email. The program also publishes a quarterly newsletter.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Unidata is connected via a LAN to NCAR, an NSFNET backbone site. All software is distributed via ftp. The Unidata NetCDF software is freely available; you can access a compressed tar file ("cd incnetcdf.tar.Z" in directory "pub") via anonymous ftp from "unidata.ucar.edu".

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSS_BSo_BSf_BSt_BSw_BSa_BSr_BSe

The Unidata netCDF software is freely available. All other Unidata software is restricted to universities and requires licenses.

FF

University of North Carolina at Chapel Hill INFO Service

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Academic Computing Services
CB# 3460, 311 Wilson Library
University of North Carolina
Chapel Hill, NC, 27599-3460

_BSE_BSm_BSa_BSi_BSl:
Judy Hallman, Manager of Information Services:
hallman@unc.bitnet

_BSP_BSh_BSo_BSn_BSe: (919) 962-9107

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

INFO is the electronic information service of the University of North Carolina at Chapel Hill. Several items may be of interest to people outside the UNC Chapel Hill area, including the following:

oBS+ Continuing education classes (in the Calendar section), including the Public Health Continuing Education Calendar and educational opportunities through the Division of Continuing Education.

oBS+ Job openings, including tenured/tenure track faculty vacancies as well as staff positions (see TOP and EPA non-faculty positions).

o+ Several campus newsletters are available in the News section, including the following:

_I_n_f_o_r_m_a_t_i_o_n _B_u_l_l_e_t_i_n _o_n _A_g_i_n_g
Approximately twenty pages monthly of information pertaining to the aged: general information, technical/professional information, grant information, meetings and conferences, and publications.

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_N_e_w_s_b_r_i_e_f
Weekly campus computing newsletter.

_S_u_p_e_r_c_o_m_p_u_t_i_n_g _N_e_w_s

In addition, the News section contains a series of bibliographies prepared by Health Sciences Library staff addressing specific topics relating to AIDS research, education, and treatment.

o+ Campus Directory, catalogs, and lists. Topics covered in this section include the following:

Campus Directory, faculty/staff and student phone numbers, addresses, and electronic mail userids

The Independent Study catalog: this is the complete catalog of courses people can take by correspondence-everything except the forms

o+ Facts & Information brochure published by the Office of Public Information provides information about the University. (From INFO's main menu, select item 7, "Ask INFO about...;" then item 6, "Campus life;" then item 18, "Facts & Information" brochure.)

_N_e_t_w_o_r_k _A_c_c_e_s_s:

Telnet to info.acs.unc.edu. When the system prompts for username, type info. Your computer must emulate a VT100.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSA_BSr_BSc_BSh_BSi_BSv_BSe

Info is available to anyone with Internet access.

FF

Archie - the McGill School of Computer Science Archive Server Listing Service

_BSA_BSd_BSd_BSr_BSe_BSs_BSs: none

_BSE_BSm_BSa_BSi_BSl: archie-l@cs.mcgill.ca

_BSP_BSh_BSo_BSn_BSe: none

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Archie is a central database for information about archive sites. It speeds the task of finding a specific program on the net. Archie keeps track of UNIX sites; VMS sites may be added in the near future.

Archie is a pair of software tools: the first maintains a list of several hundred Internet ftp archive sites, each of which is updated about once a month. The second tool allows outsiders to log onto the host to query the database. Archie also maintains a Software Description Database of the names and descriptions of various software packages, documents, and datasets that are kept on anonymous ftp archive sites around the Internet. The "whatis" command allows you to search this database.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

To access archie, "telnet" or "rlogin" to "quiche.cs.mcgill.ca" (132.206.2.3) as user "archie". The "help" command gives you information about various topics, including the commands available and how to use them. The "raw" listings of ftp sites are stored in compressed form in the directory "ftp/archie/listings". Manual pages for archie are available in the directory "ftp/archie/doc". The file "archie.man.roff" contains a UNIX-style manual entry in *roff format; "archie.man.txt" contains the same information preformatted for people on non-UNIX systems.

Users can ask archie to search for specific name strings. For example, "prog kcl" would find all occurences of the

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string "kcl" and tell you which hosts have entries with this string, the size of the program, its last modification date, where it can be found on the host, and some other useful information. This example would find archive sites that are storing Kyoto Common Lisp. Complete anonymous ftp listings of sites in the database can be obtained via the "site" command; for a list of sites, see the "list" command.

There is an electronic mail interface to archie. To receive the latest information on this interface, send mail to "archie@cs.mcgill.ca" with the word "help" in the subject line or body.

If you can't access the manual files via interactive ftp or the mail-based servers, send a message to "archie-admin@cs.mcgill.ca" asking to receive a copy of the manual by mail.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSA_BSr_BSc_BSh_BSi_BSv_BSe

Archie is available to all Internet users.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Send comments, bug reports, etc. to: "archie-l@cs.mcgill.ca". If you know of an anonymous ftp site that archie doesn't seem to maintain, or if you have additions or corrections to the Software Description Database, send mail to: "archie-admin@cs.mcgill.ca".

"Satellite" archie servers are being set up in Finland and the Netherlands in order to lessen the load on the transatlantic Internet link.

The maintainers of archie strongly encourage maintainers of anonymous ftp archives to do two things:

o Send additions and corrections to the Software Distribution Database to "archie-admin@cs.mcgill.ca".

o Maintain compressed, automated, recursive listings (ls-1R.Z files) on their machines. This lessens network loads and makes life easier for archie. Send queries for specific formats to "archie-admin@cs.mcgill.ca".

FF

LADB - Latin America Data Base

_Address:
Latin America Data Base
Latin American Institute
University of New Mexico
801 Yale NE
Albuquerque, NM 87131-1016

_Email: ladbad@unmb
ladbad@unmb.unm.edu

_Phone: (505) 277-6839
FAX: (505) 277-5989

_Description

LADB is a full-text database comprising four weekly publications on Latin America: Chronicle of Latin American Economic Affairs, Central America Update, SourceMex - Economic News & Analysis on Mexico, and NotiSur - South American & Caribbean Political Affairs. Updated four days a week, the database contains some of the most current news and analysis available on the region. Much of the information is assembled from unfiltered news sources originating from Latin America, providing an ability for organizations

to understand and monitor the environments in which they have business and research interests. Currently, the database contains more than twenty thousand articles-from 1987 to present-with approximately six hundred new ones added each month.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

LADB is available on New Mexico Technet-a nonprofit communications and database network accessible via the Internet. (Technet is also accessible via an 800 number or direct dial when no Internet link is available.)

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSR_BSe_BSs_BSo_BSu_BSr_BSc_BSe

LADB on Technet is a fee service. Access via the Internet is limited only by the availability of Internet; toll-free access is limited to organizations within North America.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For information about the service, please contact Roma Arellano at the above telephone number, postal address, or electronic mail address. LADB provides demo accounts for short-term usage.

FF

NSF STIS - Science and Technology Information System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
STIS
National Science Foundation
Division of Information Systems (Room 401)
1800 G Street NW
Washington, DC 20550

_BSE_BSm_BSa_BSi_BSl: stis-request@nsf.gov

_BSP_BSh_BSo_BSn_BSe: (202) 357-7555 (Voice mail)
TDD: (202) 357-7492

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

STIS is an electronic dissemination system that provides fast, easy access to National Science Foundation (NSF) publications. There is no cost to you except for possible long-distance phone charges. The service is available twenty-four hours a day, except for maintenance periods.

Publications currently available include:

- oBS+ "The NSF Bulletin"

- Program announcements and "Dear Colleague" letters
- General publications and reports
- Press releases
- NSF organization charts and phone books
- NSF vacancy announcements
- Award abstracts (1989-now)

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How to Access STIS

There are many ways to access STIS. Choose the method that meets your needs and the communication facilities you have available.

- Electronic documents via electronic mail. Send a message to "stisserv@nsf.gov". Put the command "get index" in the text of your message.
- Anonymous FTP. Connect to "stis.nsf.gov". Retrieve the file "index".
- Direct E-mail. This service automatically mails you information about documents added to STIS. For information on this, send the command "get stisdirm" to "stisserv@nsf.gov".
- Gopher. Connect to port 70 on host "stis.nsf.gov".
- WAIS. There are two databases on "stis.nsf.gov". "nsf-pubs" contains all documents and publications, and "nsf-awards" contains award abstracts.
- Online STIS. You must have a VT100 emulator. Telnet to "stis.nsf.gov", and log on as "public".

How to Contact the System Manager

STIS is available to the public. There is no charge for any of the services, and no need to register for a password.

FF

ICDL - Online Database of the International Center for Distance Learning

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
ICDL
The Open University
Walton Hall, Milton Keynes, MK7 6AA
United Kingdom

_BSE_BSm_BSa_BSi_BSl: n.ismail@open.ac.uk

_BSP_BSh_BSo_BSn_BSe: (+44 908) 653537
FAX: (+44 908) 654173

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The International Centre for Distance Learning (ICDL) is a documentation centre based on the campus of the Open University in the United Kingdom, specializing in collecting and disseminating information on distance education worldwide. With a grant from the British Government's Overseas Development Administration, ICDL has now developed a comprehensive computerized database on distance education for the Commonwealth of Learning.

The database contains information on :

- oBS+ Distance-taught programmes and courses in the Commonwealth (22,000+)

- oBS+ Distance teaching institutions worldwide (600+)

- oBS+ Literature of distance education worldwide (4500+ entries)

Some of the literature entries contain full text of papers as well as bibliographic details and abstracts.

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_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The database can be accessed from the Internet using Telnet:

"Telnet to acsvax.open.ac.uk"
(137.108.48.127 or 137.108.48.8 or 137.108.48.9)
"Username: ICDL"

Further progress requires a subscriber account code and password, but potential users are invited to leave details for contact by logging in with the account code NEW, see below.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSD_BSa_BSt_BSa_BSb_BSa_BSs_BSe

The database changed from open access, during its development stage, to subscribers only on 1st September 1992. Further information on subscription charges (initially set at 200 pounds for 1992 through 1993) can be obtained by logging in with the Account code NEW and leaving email and/or postal address on the facility provided. Developing country users may be given free access or may obtain a free copy of the CD-ROM version.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

The database is also available on CD_ROM. ICDL also publishes a quarterly hard copy accessions list, which gives details of literature in distance education received in

ICDL. This list is available by writing to ICDL. ICDL would like to hear about new literature and from institutions involved in distance teaching. General enquiries may be sent to the email address quoted above.

FF

Bibliographic Mailserver for Artificial Intelligence Literature
University of Saarbruecken, Germany

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Dr. Alfred Kobsa
Dept. of Information Science
University of Konstanz
D-W-7750 Konstanz 1 Germany

_BSE_BSm_BSa_BSi_BSl: kobsa@cs.uni-sb.de

_BSP_BSh_BSo_BSn_BSe: +49 7531 88 1

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The LIDO MAILSERVER for AI literature at the University of Saarbruecken, Germany allows for the retrieval of bibliographic information on AI-related publications via electronic mail. The references are returned in LaTeX (Bibtex) format or in a refer-like format. As of 1991, more than twenty thousand documents are contained in its database, with an annual increase of twenty-five percent. About four thousand bibliographic requests are currently handled each year.

Queries to the bibliographic database may refer to the

author name(s), the title, and the year of publication. Substring search and regular expressions (egrep) are possible. Global keywords or classification hierarchies cannot be accessed. Users who already have a certain overview of a field will thus probably profit more from the LIDO MAILSERVER than novices familiarizing themselves with a new area.

For more information on this service, send the following e-mail message:

```
To: "lido@cs.uni-sb.de"
Subject: "lidosearch info english"
```

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The body of the message should be empty.

FF

General Accounting Office Reports

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
General Accounting Office
P.O. Box 6015
Gaithersburg, MD 20877 USA

_BSE_BSm_BSa_BSi_BSl: KH3@cu.nih.gov

_BSP_BSh_BSo_BSn_BSe: GAO report distribution: 202/275-6241 (7:30 a.m.-5:30 p.m. EST)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Reports of the U.S. General Accounting Office (GAO) cover a broad range of subjects such as major weapons systems, energy, financial institutions, and pollution control. The following GAO reports are available over the Internet as part of a test to determine whether there is sufficient interest within this community to warrant making all GAO reports available over the Internet.

1. Computer Security: Governmentwide Planning Process Had Limited Impact, GAO/IMTEC-90-48, May 1990.
Assesses the governmentwide computer security planning process and extent to which security plans were implemented for 22 systems at 10 civilian agencies. (This report is named

REPORT1 and is 55,062 bytes or 1,190 lines long.)

2. Drug-Exposed Infants: A Generation at Risk, GAO/HRD-90-138, June 1990.
Discusses health effects and medical costs of infants born to mothers using drugs, impact on the nation's health and welfare systems, and availability of drug treatment and prenatal care to drug-addicted pregnant women. (This report is named REPORT2 and is 113,916 bytes or 2,421 lines long.)

3. High-Definition Television: Applications for This New Technology, GAO/IMTEC-90-9FS, December 1989.
Provides information on 14 HDTV applications and the key

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industry officials' views on the effect of an HDTV production standard on potential applications. (This report is named REPORT3 and is 31,947 bytes or 643 lines long.)

4. Home Visiting: A Promising Early Intervention Strategy for At-Risk Families, GAO/HRD-90-83, July 1990.
Discusses home visiting as an early intervention strategy to provide health, social, educational, and other services to improve maternal and child health and well-being. (This report is named REPORT4 and is 287,547 bytes or 5,711 lines long.)

5. Meeting the Government's Technology Challenge: Results of a GAO Symposium, GAO/IMTEC-90-23, February 1990.
Outlines five principles for effective management of information technology that can provide a framework for integrating information technology into the business of government. (This report is named REPORT5 and is 39,017 bytes or 777 lines long.)

6. Strategic Defense System: Stable Design and Adequate Testing Must Precede Decision to Deploy, GAO/IMTEC-90-61, July 1990.
Discusses why the Strategic Defense Initiative Organization will not be able to support currently scheduled full-scale development or deployment decisions on any part of Phase I of the Strategic Defense System. (This report is named REPORT6 and is 104,521 bytes or 1,847 lines long.)

7. Training Strategies: Preparing Noncollege Youth for Employment in the U.S. and Foreign Countries, GAO/HRD-90-

88, May 1990.
Discusses (1) weaknesses in the U.S. education and training system for preparing noncollege youth for employment and (2) foreign strategies that appear relevant to U.S. shortcomings. (This report is named REPORT7 and is 190,323 bytes or 3,951 lines long.

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The reports are in ASCII text format by anonymous FTP in the directory GAO-REPORTS at the NIH computer center, cu.nih.gov. Use the FTP text format.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Some of these reports have material (such as pictures, charts, and tables) that could not be viewed as ASCII text.

If you wish to obtain a complete report, call GAO report distribution at (202) 275-6241 (7:30 a.m.-5:30 p.m. EST) or write to the address above.

So that we can keep a count of report recipients, and your reaction, please send an e-mail message to KH3@cu.nih.gov and include, along with your e-mail address, the following information:

Your organization, your position/title and name (optional), the title/report number of the above reports you have retrieved electronically or ordered by mail or phone, whether you have ever obtained a GAO report before, whether you have copied a report onto another bulletin board-if so, which report and bulletin board, other GAO report subjects you would be interested in, and any additional comments or suggestions.

FF

List of Lists

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Steven Bjork
Room EJ223
SRI International
333 Ravenswood Avenue
Menlo Park CA 94025 USA
+1-415-859-6187

_BSE_BSm_BSa_BSi_BSl: nisc@nisc.sri.com

_BSP_BSh_BSo_BSn_BSe: (+1 415) 859-3695

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Interest-Groups file, or List of Lists, lists various discussion lists available to network electronic mail users.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The file is available for anonymous FTP from "ftp.nisc.sri.com" (192.33.33.22) in directory "netinfo". The pathname of the file is netinfo/interest-groups.

E-mail access is provided. Send a message to "mail-server@nisc.sri.com" with a line:

"netinfo/interest-groups"

in the message body. You will be returned the file in segments.

To keep people informed about changes to the file, there is a mailing list for List-of-Lists update notices. When updates are made to the file, an announcement message will be sent to the list. Copies of the file itself will not be sent to the list.

To get on or off the notification list, send requests to:

_____

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"interest-groups-request@nisc.sri.com"

To submit new descriptions of mailing lists, to update existing information, or to delete outdated information from the List-of-Lists, send a message to:

"interest-groups-request@nisc.sri.com"

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSR_BSe_BSs_BSo_BSu_BSr_BSc_BSe

The list is available to anyone via ftp or the mail server.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

The NISC depends on the network user population to inform them of changes to any of the network lists.

Thanks to Rich Zellich for the many years of effort that he put into maintaining this file.

FF

FEDIX and MOLIS - Federal Information Exchange, Inc.

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Federal Information Exchange, Inc.
555 Quince Orchard Road
Suite 200
Gaithersburg, MD 20878 USA

1747 Pennsylvania Ave. NW
Suite 1150
Washington DC 20006

_BSE_BSm_BSa_BSi_BSl: fedix@fedix.fie.com

_BSP_BSh_BSo_BSn_BSe: (301) 975-0103
Help Line (technical assistance): (301) 975-0103
Fax: (301) 975-0109

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

FEDIX and MOLIS, online services of Federal Information Exchange, Inc., are information links between the federal government and academia. They allow "one-stop shopping" for the latest information about research and educational opportunities from participating agencies and minority institutions. FEDIX and MOLIS are easy to use and provide access at no cost.

FEDIX databases provide online information on agency research opportunities, program contacts, scholarships, research equipment, procurement notices, and minority opportunities. An electronic mail feature is also provided for users to communicate with the system operators.

MOLIS databases support the White House Initiative on Historically Black Colleges & Universities (HBCUs) by providing capability information on 107 HBCUs and 32 Hispanic-Serving Institutions (HSIs) and universities. This online information includes research centers, facilities, equipment; precollege and education programs; scholarships and

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fellowships; emerging capabilities; revenues and expenditures, degrees and enrollment; faculty profiles; and administrative personnel data. Information will soon be available on science and engineering students and grant/contract activity.

Participating agencies: Department of Energy (DOE), Department of Commerce (DOC), Department of Education (DOEd), Department of Housing and Urban Development (HUD), National Aeronautics and Space Administration (NASA), Federal Aviation Administration (FAA), National Science Foundation (NSF), National Security Agency (NSA), Office of Naval Research (ONR), U.S. Agency for International Development (AID), Air Force Office of Scientific Research (AFOSR).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any microcomputer or dumb terminal with communications software and a modem operating at 1200, 2400, or 9600 baud, or any system/terminal with access to the Internet can access the system.

FEDIX
(301) 258-0953 Washington metro area
(800) 232-4879 All others

MOLIS
(301) 258-5016 Washington metro area

(800) 626-6547 All others

MODEM SETUP: 8 databits, no parity, 1 stopbit

INTERNET ADDRESS: "telnet fedix.fie.com "
At login, type: "fedix" for FEDIX
or "molis" for MOLIS

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSS_BSe_BSr_BSv_BSi_BSc_BSe

FEDIX provides access to the public at no charge.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Free User Guides are available for both FEDIX and MOLIS.
Call (301) 975-0103.

The system operates twenty-four hours a day, seven days a week, except for periodic system updating or maintenance.

The Help Line (for problems or comments) is staffed Monday-Friday 8:30 AM-4:30 PM Eastern Daylight Time, except on federal holidays.

FF

The University of Michigan Software Archives

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
ITD Research Systems
535 West Williams
Ann Arbor, MI 48103 USA

_BSE_BSm_BSa_BSi_BSl: archive-admin@archive.umich.edu

_BSP_BSh_BSo_BSn_BSe: (313) 764-2278

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The University of Michigan has several collections of public domain, freeware, and shareware software. Additional archives, additional access methods, more documentation, mailing lists, and better indexing are planned; suggestions are welcome.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The archives are at two locations.

Atari software is located at "atari.archive.umich.edu", in the directory "atari".

Other software is located at "archive.umich.edu", with

aliases mac.archive.umich.edu, msdos.archive.umich.edu, and apple2.archive.umich.edu) in the following directories:

mac	Macintosh software
msdos	IBM PC and compatible software
apple2	Apple 2 software
next.ftp	NeXT software
linguistics	linguistics software
physics	physics software
mac.bin	not for ftp access (local Appletalk service only)
next	not for ftp access (afs only)

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o+ FTP Access: You can use ftp to get to these archives (login as "anonymous"; use any password). Please restrict anonymous ftp access to atari.archive.umich.edu to evening through early morning EDT (-4:00 GMT), to show consideration to the regular users. Users of archive.umich.edu need not observe this restriction, but will get better response in that time period. For load management reasons, limits on ftp access may be imposed in the future.

o+ AFS Access: If you are using AFS (Andrew File System) you can get to the archive directory (except the atari archive) with "cd /afs/umich.edu/group/itd/archive".

o+ Email Access: You may request that files be mailed to you from the atari archives (see the Help file in those archives for details). This service will be expanded to include other archives in the future.

_W_h_o _C_a_n _U_s_e _t_h_e _A_r_c_h_i_v_e_s

The archives are freely available to everyone.

_M_i_s_c_e_l_l_a_n_e_o_u_s _I_n_f_o_r_m_a_t_i_o_n

The University is planning additional archives and access methods, more documentation and mailing lists, and better indexing. Suggestions are welcome.

Contacting the Archivists

Most of the work on the archives is being done by volunteers. Their time is limited, so a response may be delayed, but please contact them with questions, suggestions, submissions, or praise.

apple2-archivists@archive.umich.edu
atari-archivists@archive.umich.edu
linguistics-archivists@archive.umich.edu
mac-archivists@archive.umich.edu
msdos-archivists@archive.umich.edu
next-archivists@archive.umich.edu
physics-archivists@archive.umich.edu

FF

Mid-RTTC - Mid-Continent Regional Technology Transfer Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Southwest Research Institute (SwRI)
Division 15
PO Drawer 28510
San Antonio TX 78228-0510

_BSE_BSm_BSa_BSi_BSl: richard@technology.com -or- dwebb@technology.com

_BSP_BSh_BSo_BSn_BSe: (512) 522-3259

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

This system is intended to contain information related to technology transfer activities in the mid-continent region. The states of Arkansas, Colorado, Iowa, Kansas, Missouri, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Utah, and Wyoming make up this region. National and international topics are included as well. The BBS provides an automatic pass-through service to other resources. Some that are now supported are the Texas Innovation Network (TINS), NASA Spacelink BBS, the NSF STIS, and a local Wide Area Information Server (WAIS) interface. Others will be added in the future.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs:

TELNET or rlogin to technology.com and logon with username "bbs". Follow the new user registration instructions. Alternatively, TELNET to technology.com using port 9000.
Example: telnet technology.com 9000

Dial up access is available through (512) 522-5890 (2400-1200 bps). Enter the username "bbs" when prompted and then select item 2 from the terminal server menu.

Users of TINS can link to this system through item 3 in the TINS top level menu.

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSM_BSi_BSd-_BSR_BST_BST_BSC

Anyone can use this system.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn:

The mission of this technology transfer center is to serve the national interest by providing scientific, engineering, business, information, and educational services for the mid-continent region. This will enable public and private enterprises to acquire and apply technologies developed by NASA, federal laboratories, and other sources, thus expanding the use of technology and improving competitiveness.

For more information contact:
Gary Sera, director
Mid-Continent RTTC
TEES, 237 WERC
College Station TX 77843-3401
(409) 847-8605 FAX: (409) 845-3559

FF

EMBL - Data Library Network Servers

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
EMBL Data Library
European Molecular Biology Laboratory
Postfach 10.2209
W-6900 Heidelberg
Germany

_BSE_BSm_BSa_BSi_BSl: NetHelp@EMBL-Heidelberg.DE

_BSP_BSh_BSo_BSn_BSe: +49-6221-387 258
FAX: +49-6221-387 519

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The EMBL Data Library offers a range of electronic services to the molecular biology research community.

An electronic mail server and an anonymous ftp server allow access to a large number of important data collections, including the EMBL nucleotide sequence database, the SWISS-PROT protein sequence database, and the Brookhaven protein structure database. In addition to the complete quartely releases of the sequence databases weekly updates of the EMBL database are provided for downloading by ftp. Indivi-

dual EMBL database entries can be retrieved using the e-mail server, and new entries are made available on a daily basis.

The Data Library also maintains an archive of free software for molecular biology. More than 200 different programs are currently available for MS-DOS, Vax/VMS, UNIX and Macintosh systems and can be downloaded by e-mail or anonymous ftp.

New data collections and software are added constantly.

The FASTA and QuickSearch services enable remote users to perform sequence similarity searches against a variety of nucleotide and protein sequence databases maintained at EMBL. Whereas QuickSearch is appropriate for the quick identification of very similar database entries, FASTA is better

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suited for the detection of more distantly related sequences. The database available for searches are updated daily, thus access to latest sequence information is guaranteed.

A Gopher server (EMBnet BioInformation Resource EMBL) is in operation which sits on top of the EMBL anonymous ftp archive. It is part of the EMBnet BioGopher network.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Anyone with direct or gatewayed access to the Internet can use the EMBL servers.

The addresses to use are:

NetServ@EMBL-Heidelberg.DE
(E-mail file server)

Fasta@EMBL-Heidelberg.DE
(FASTA database similarity searches)

Quick@EMBL-Heidelberg.DE
(QuickSearch database similarity searches)

Detailed descriptions of access procedures and the information available can be obtained by sending the word HELP on the Subject line or in the body of an e-mail message to the addresses shown above.

The anonymous ftp server can be reached at:

   ftp.EMBL-heidelberg.DE

Use the user name "anonymous" and your e-mail address as password to log in. Some older ftp clients might get confused by multiple message lines. In this case, enter a dash "-" as the first character of the password to turn this feature off.

The Gopher server can be accessed at ftp.EMBL-Heidelberg.DE at port 70.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSE_BSM_BSB_BSL _BSS_BSe_BSr_BSv_BSe_BSr

Access to the EMBL network services is unrestricted. However, European users are strongly encouraged to use their national EMBnet nodes if possible. Most EMBnet nodes offer

similar services.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Periodically, the EMBL File Server Newsletter is posted to the USENET newsgroup bionet.molbio.embl-databank. It contains information about changes and additions to the services provided by the EMBL Data Library. This newsgroup can also be used to contact the Data Library staff.

The EMBL anonymous ftp server is mirrored by ftp.weizmann.ac.il.

The software provided is exchanged with the file servers at the University of Indiana (Iubio) and the University of Houston (Gene-Server).

These network services are provided in collaboration with the EMBL Computer Group.

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

Additional information about these resources are available by electronic mail from NetServ@EMBL-Heidelberg.DE (help doc), by anonymous ftp (in /pub/help on ftp.EMBL-Heidelberg.DE) or by Gopher ("About this resource").

FF

ECIX - Energy and Climate Information Exchange
File Distribution Service

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Energy and Climate Information Exchange
EcoNet
18 de Boom Street
San Francisco, CA 94107

_BSE_BSm_BSa_BSi_BSl: ecixfiles@igc.apc.org

_BSP_BSh_BSo_BSn_BSe: (415) 442-0220
FAX: (415) 546-1794

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Energy and Climate Information Exchange (ECIX) is a project of EcoNet aimed at educating the environmental community and the general public on the potential of energy efficiency and renewable energy to to reduce the use of fossil fuels and their contribution to global climate change. The ECIX File Distribution Service provides a wide selection of information, policy statements, newsletters, and other files pertaining to energy and climate issues. Contributions of pertinent materials are encouraged. File listings are updated regularly and the revised file lists are distributed via email to subscribers and several environmentally-

oriented newsgroups and lists.

The ECIX Project is funded by a grant from the Joyce Mertz-Gilmore Foundation.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

All ECIX files are available via anonymous ftp from igc.apc.org (192.82.108.1), in the subdirectories /pub/ECO, /pub/ECIX, and /pub/ECIXfiles. The current list of all available files is in the subdirectory /pub/ECIXfiles.

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSE_BSC_BSI_BSX _BSS_BSe_BSr_BSv_BSi_BSc_BSe

All files provided by the ECIX file distribution service are available free of charge to anyone with ftp access and/or electronic mail anywhere in the world. Files may be redistributed with the appropriate credit.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

A number of official documents related to the UNCED meeting in June 1992 are also available at this site in the subdirectory /pub/UNCED. These are in .zip (DOS PK-Zip), .Z (UNIX compress), and .sit (Mac compressed) formats.

File listings and the actual files may also be requested via email for those without ftp access. To request a file listing, a specific file, or to be placed on the mailing list for future updates, send email to ecixfiles@igc.apc.org. Please include your name, affiliation, and reason for interest. Due to their size, the UNCED documents are NOT available via email, but can be purchased on diskette from EcoNet.

All ECIX files and much more energy, climate and UNCED oriented material can also be found on the EcoNet network, which can be accessed via the Internet for a small subscription fee. For more information about EcoNet, send email to support@igc.apc.org, or contact EcoNet at the above address.

Available via anonymous ftp from igc.apc.org (192.82.108.1) or via email from ecixfiles@igc.apc.org:

Information about EcoNet	/pub/econet_brochure
Information about ECIX	/pub/ECIXfiles/ECIXinfo
Information about File Distribution Service	/pub/ECIXfiles/ECIXfileinfo
Current List of Energy Files	/pub/ECIXfiles/EnergyFiles
Current List of Climate Files	/pub/ECIXfiles/ClimateFiles

Chapter 4: White Pages

The Internet supports several databases that contain basic information about users, such as e-mail addresses, telephone numbers, and postal addresses. These databases can be searched to get information about particular individuals. Because they serve a function akin to the telephone book, these databases are often referred to as "white pages."

Contents

4.1 NASA Ames Research Center Electronic Phone Book [Sep92]

4.2 DDN Network Information Center WHOIS Service [May90]

4.3 NYSERNet/PSI White Pages Pilot Project [May90]

4.4 [Discontinued] CREN/CSNET User Name Server ``ns'' [Jun92]

4.5 KIS - Knowbot Information Service [Sep92]

FF

NASA Ames Research Center Electronic Phone Book

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Randall W. Robinson
MS 233-11
NASA Ames Research Center
Moffett Field, CA 94035-1000

_BSE_BSm_BSa_BSi_BSl: rrobinson@orion.arc.nasa.gov

_BSP_BSh_BSo_BSn_BSe: (415) 604-3570
FAX: (415) 604-6999

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Electronic version of the NASA Ames Research Center white pages

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The electronic phone book is accessed by using the whois protocol to x500.arc.nasa.gov. (The protocol can be accessed through the whois program under BSD UNIX). For example, "whois -h x500.arc.nasa.gov best" returns:

Name Phone M/S Office Organization

Clyde A. Best	4-6339	231-1	N231/102	RTF
Paul D. Sebesta	4-5232	242-4	N242/203	SGE

pdsebesta@ames.arc.nasa.gov

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSP_BSh_BSo_BSn_BSe _BSB_BSo_BSo_BSk

Anyone may access this resource. Please use it if you need the information.

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_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Software problems should be reported to Peter E. Yee, by email to yee@atlas.arc.nasa.gov or by phone to (415) 604-3812.

FF

DDN Network Information Center WHOIS Service

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
SRI International
Network Information Systems Center, Room EJ291
333 Ravenswood Avenue
Menlo Park, CA 94015

_BSE-_BSm_BSa_BSi_BSl:
BUG-WHOIS@NIC.DDN.MIL (for questions and comments about WHOIS)
SERVICE@NIC.DDN.MIL (for automated WHOIS search requests via e-mail)
REGISTRAR@NIC.DDN.MIL (for requests to be registered in the WHOIS database)

_BSP_BSh_BSo_BSn_BSe: 1-800-235-3155 or (415) 859-3695

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

WHOIS/NICNAME is a NIC program that provides an electronic ``white pages'' of network entities. WHOIS lists the name, network mailbox, US postal address, telephone number, and host for all users registered with the NIC. WHOIS also provides information about registered hosts, domains, and networks, including the names and addresses of designated points of contact, host addresses, and domain servers.

There are currently more than 75,000 users and points of contact registered.

Network Access

Access to the WHOIS program is available in a number of ways.

- Via client programs that query the WHOIS server
- Via Telnet to users who connect to <NIC.DDN.MIL> (<192.67.67.20>)

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- Via automatic mail server by sending a message to <SERVICE@NIC.DDN.MIL>

Who Can Use WHOIS

WHOIS services are available to all users of the Internet and also to users on networks that gateway to the Internet. Any Internet user with a valid electronic mailbox can be listed in the WHOIS database.

FF

NYSERNet/PSI White Pages Pilot Project

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NYSERNet/PSI White Pages Pilot Project
c/o PSI, Inc.
Reston International Center
11800 Sunrise Valley Drive
Suite 1100
Reston, VA 22091
USA

_BSE_BSm_BSa_BSi_BSl: wpp-manager@psi.com

_BSP_BSh_BSo_BSn_BSe: +1 415-961-3380

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The NYSERNet/PSI White Pages Pilot Project is a large, decentralized white pages service under multiple administrations. Although focused in the US, eight other countries are participating at various levels. The X.500 Directory Service is used to realize the service. Both terminal-oriented and X windows applications are available.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Telnet to wp.psi.com, login as fred

No restrictions

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FF

[Discontinued] CREN/CSNET User Name Server ``ns''

The CREN/CSNET User Name Server was shut down when CSNET ceased operations in October 1991.

For more information, see Section 6.6 "[Discontinued] CSNET CIC - CREN/CSNET Coordination and Information Center".

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KIS - Knowbot Information Service

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Ralph Droms
Computer Science Department
323 Dana Engineering
Bucknell University
Lewisburg, PA 17837

_BSE_BSm_BSa_BSi_BSl: droms@bucknell.edu

_BSP_BSh_BSo_BSn_BSe: (717) 523-1271
FAX: (717) 524-3760

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Knowbot Information Service is a white pages ``meta-service'' that provides a uniform interface to heterogeneous white pages services in the Internet. Using the Knowbot Information Service, one can form a single query that can search for white pages information from the NIC WHOIS service, the RIPE European white pages service and MCI Mail, among others, and have the responses displayed in a single, uniform format.

Inclusion of additional information about an organization with which a person is affiliated enables access to additional white pages services including the NYSERNet X.500

White Pages Pilot project, and over 200 finger and whois services run by individual organizations. For example, a query about <droms@bucknell> will return results from the NYSERNet White Pages project and from the finger server on <sol.cs.bucknell.edu>.

Network Access

There are three ways to gain access to the Knowbot Information Service:

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- Use the WHOIS frontends to the Knowbot information Service on hosts <nri.reston.va.us> and <regulus.cs.bucknell.edu>. For example, from a UNIX host, use <whois -h nri.reston.va.us cerf@cnri> to look for information about Vint Cerf affiliated with CNRI.

- Telnet to the Knowbot Information Service. Currently, there are servers accessible through a telnet to port 185 on hosts <nri.reston.va.us> and <regulus.cs.bucknell.edu>. From a UNIX host, use <telnet nri.reston.va.us 185>. The commands help and man summarize the command interface.

- Send mail to userid <netaddress> at one of the Knowbot Information Service hosts.

When to Use the Service

The Knowbot Information Service is available to all users through the mechanisms listed above.

Chapter 5: Networks and Email Gateways

This section lists networks that are part of the Internet and email gateways to networks that are not part of the Internet.

Contents

5.1 CICNet [Jun89]

5.2 [Discontinued] CREN/CSNET - The Computer + Science Network [Jun92]

5.3 JvNCnet [Jan91]

5.4 LOS NETTOS - Los Angeles Area Regional Network [Jul92]

5.5 MRNet - The Minnesota Regional Network [Aug92]

5.6 NASAmail Gateway - SMTP to NASAmail Gateway [Sep92]

5.7 NCSAnet [Jun89]

5.8 NEARnet- New England Academic and Research Network [Oct92]

5.9 NSFNET - National Science Foundation Network [Jul92]

5.10 NYSERNet [Jul92]

5.11 Sesquinet [Jun89]

5.12 [Discontinued] USAN - University Satellite Network [Sep92]

5.13 Westnet [Jun89]

5.14 Los Alamos National Laboratory Integrated Computing Network [Aug89]

5.15 NASA Science Network [Aug89]

5.16 PREPnet - Pennsylvania Research and Economic

Partnership Network [Jul92]

5.17 SURAnet [Jul92]

5.18 UUNET Technologies, Inc. - Electronic Mail and News Services [Dec92]

5.19 NORDUnet - The Nordic Backbone Network [Sep92]

5.20 [Discontinued] CMR - Commercial Mail Relay [Sep92]

5.21 Terrestrial Wideband Network [Sep89]

5.22 ICBNet [Nov89]

5.23 CONCERT Network [Sep92]

5.24 SWITCH - Swiss University and Research Network [May92]

5.25 NevadaNet [Jun92]

5.26 BARRNet [Aug90]

5.27 NWNet [Mar93]

5.28 SUNET [Jan90]

5.29 THEnet - The Texas Higher Education Network [Aug92]

5.30 ILAN [Mar90]

5.31 ESnet - Energy Services Network [Apr90]

5.32 WVNET [May90]

5.33 FidoNet Gateways [Jun92]

5.34 CERFNet - California Education and Research Federation Network [Jun92]

5.35 SprintMail X.400 Gateway [Sep90]

5.36 PSINet [Sep92]

5.37 MIDnet - A Midwestern Regional Network [Sep92]

5.38 SDSCnet [Feb91]

5.39 CSUNET - California State University Network [May91]

5.40 WiscNet [May91]

5.41 AARNet [Jul91]

5.42 UNINETT - Norwegian Academic Data Network [Mar93]

5.43 ARNET - Argentine Science Network [Jul91]

5.44 TANet - The Taiwan Academic Network [Jul92]

5.45 OARnet - Ohio Academic Resources Network [Jun92]

5.46 MOREnet - the Missouri Research & Education Network [Sep92]

5.47 EMBnet - European Molecular Biology Network [Sep92]

5.48 HGMP-RC - UK Human Genome Mapping Project Resource Centre [Aug92]

5.49 ANS - Advanced Network & Services, Inc. [Mar93]

5.50 AlterNet - Public Service Network [Dec92]

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CICNet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
CICNet, Inc.
Computing Center
535 W. William St.
Ann Arbor, MI 48103-4943
Attn: Joel Maloff

_BSE-_BSm_BSa_BSi_BSl: maloff@merit.edu

_BSP_BSh_BSo_BSn_BSe: (313) 747-4272 [Joel Maloff]

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

CICNet, Inc. is a regional midlevel network serving a seven state region of the midwestern United States, and includes the members of the Big Ten plus the University of Chicago as its Charter Members. CICNet provides DS-1 (1.544 mbps) backbone connections between its eleven nodes, and incorporates cisco Systems routers and Datatel CSUs. Interexchange network services are currently provided by MCI. The Mission Statement of CICNet is to provide its member organizations with the ability to share advanced information systems - high speed data networking, computing, video, and telecommunications - for the purpose of enhancing academic advancement and scientific research within a seven state region of the midwestern United States.

CICNet is managed by an Executive Director and a Board of Directors. Technical support services - Network Information

Center and Network Operations Center - are provided under contract with MERIT. Funding for the first year of CICNet has been provided by the eleven member institutions and grant funding from the National Science Foundation.

CICNet is in the process of finalizing its Business Plan. The current version calls for the organization to have five categories of membership: Charter, Institutional/Nonprofit, State/Subregional Networks, Research Corporate, and

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Computer/Telecommunications Corporate. Active participation of all membership categories is viewed as essential. CICNet will also offer a variety of services beyond simple bandwidth connectivity. The provision of value added services is a high priority.

Further information will be available with the publication of the CICNet Business Plan (anticipated in four to six weeks).

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

See also, NCSA and NCSAnet.

FF

[Discontinued] CREN/CSNET - The Computer + Science Network

CSNET ceased operations in October 1991.

For more information, see Section 6.6 "[Discontinued] CSNET CIC - CREN/CSNET Coordination and Information Center".

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JvNCnet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
JvNCnet
Princeton University
6 von Neumann Hall
Princeton, NJ 08544

_BSE_BSm_BSa_BSi_BSl: nisc@nisc.jvnc.net

_BSP_BSh_BSo_BSn_BSe:
(609) 258-2400
(609) 258-1544 (for the Network Operations Center)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

JvNCnet is a North East Research Regional Network with direct access to the NSFNET backbone. JvNCnet also has international connections to several Scandinavian countries (Norway, Finland, Iceland, Sweden, and Denmark) via the network's connection to NORDUnet, and to France and Switzerland via the link to INRIA.

The regional network, the first T-1 (1.544 Mbps) academic network, evolved from the thirteen members of the Consortium for Scientific Computing to a regional network, currently with thirty-one sites concentrated in the Northeast. When the John von Neumann National Supercomputer Center closed in April 1990, JvNCnet moved its headquarters to, and became part of, Princeton University.

JvNCnet is engineered as a backbone network where backbone nodes are connected to each other with multiple T1 lines. These backbone nodes fan out to connect JvNCnet members at T1, fractional T1 (128 kbps), 56 kbps, 19.2 kbps, and 9.6 kbps over dedicated and dial-up lines. Backbone nodes are located at phone company premises in the cities of Princeton (NJ), Trenton (NJ), Philadelphia (PA), Boston (MA), Providence (RI), New Haven (CT), New York (NY), and Newark (NJ). Member institutions connect to the closest backbone node,

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reducing the circuit costs for JvNCnet sites.

The institutions currently on JvNCnet are:

American Mathematical Society, AT&T Bell Laboratories, Bellcore, Bristol-Meyers Squibb, Geophysical Fluid Dynamics Laboratories, INRIA, Institute for Advanced Study, Institute for Electrical and Electronics Engineers, Kean College, Mead Data Central, Montclair State College, NEARnet, New Jersey Institute of Technology, New York University, NORDUnet, Penn State University, Princeton University, Rohm & Haas, Rutgers University, Siemens Corporate Research, Stevens Institute of Technology, Trenton State College, Trinity College, University of Medicine and Dentistry of New Jersey, University of Pennsylvania, University of Rhode Island, Wesleyan University, Yale University,

The network is operated twenty-four hours a day, seven days a week. The network staff of JvNCnet is organized into six groups. These are (i) Network Information Services Group, (ii) Network Operations Group, (iii) Network Engineering Group, (iv) Network Installation and Maintenance Group, (v) Marketing Office, and (vi) Business Office.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Network access is available to all Internet sites who desire access to JvNCnet members. JvNCnet follows the Acceptable Use Policy of the National Science Foundation Network.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

JvNCnet produces a quarterly newsletter, _BSM_BSe_BSg_BSa_BSb_BSy_BSt_BSe_BSs, and com-

plete monthly operations reports. The network also hosts quarterly regional meetings for members as well as seminars and training session that are open to the entire data networking community. For further information on JvNCnet, contact the Network Coordinator at nisc@nisc.jvnc.net or (609) 258-2405.

FF

LOS NETTOS - Los Angeles Area Regional Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Los Nettos c/o
Ann Cooper
USC/Information Sciences Institute
4676 Admiralty Way
Marina del Rey, CA 90292

_BSE_BSm_BSa_BSi_BSl: los-nettos-request@ISI.EDU

_BSP_BSh_BSo_BSn_BSe: (310) 822-1511
FAX: (310) 823-6714

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Los Nettos is a regional network in the Los Angeles area.

Important features of Los Nettos are that it is (1) an IP network, and (2) it is ``high speed.'' All connections and links are at least T1 (1.5 Mbps) capacity. A goal of Los Nettos is to provide an environment to develop very interactive network applications.

Los Nettos is operated by the member organizations, not by DARPA, or NASA, NSF, or DOE, etc. It may be used for any educational or research purpose.

The member organizations are universities and research laboratories. The Information Sciences Institute (ISI) of

the University of Southern California (USC) acts as the agent for Los Nettos.

Nine organizations are already participating in this network (ISI, USC, JPL, CalTech, UCLA, TIS, Rand, TRW, and NOSC). A number of other research centers have expressed strong interest in participating.

Los Nettos will interoperate with CERFnet and other networks to provide access to special resources (for example, the San

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Diego Supercomputer Center), or to other regional networks (for example, BARRNET in the San Francisco Bay area).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host of any member organization may access Los Nettos. Los Nettos does not offer Dial-up access. Please see CERFNET.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Any of the members can exchange traffic with any other member for any purpose. Any member may use any of the long-haul networks Los Nettos has connections to, subject only to the restrictions of the owner of the long-haul network.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

See also, CERFNET.

_BSS_BSu_BSp_BSp_BSl_BSe_BSm_BSe_BSn_BSt_BSa_BSr_BSy _BSD_BSo_BSc_BSu_BSm_BSe_BSn_BSt_BSs _BSo_BSn _BSn_BSn_BSs_BSc._BSn_BSs_BSf._BSn_BSe_BSt

Each Los Nettos Member is permitted to have associates and connect them to the network. Each Los Nettos member can set its own policies for associates. Currently, only Caltech and ISI have associate programs.

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

Los Nettos Member and Associate information are available by anonymous FTP from "venera.isi.edu" located in the files:

in-notes/los-nettos/lanet-story.txt
in-notes/los-nettos/lanet-assoc.txt

FF

MRNet - The Minnesota Regional Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Minnesota Regional Network
511 11th Avenue South, Box 212
Minneapolis, MN 55415

_BSE_BSm_BSa_BSi_BSl: info@MR.Net

_BSP_BSh_BSo_BSn_BSe: (612) 342-2570
FAX: (612) 344-1716

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Minnesota Regional Network is a mid-level network, founded in 1987 for the purpose of providing access to the NSFNET for organizations in the Minnesota area. It is presently established as a nonprofit corporation with active participation by member organizations. Its mission is to provide and facilitate the use of computer networks in order to enhance the high-technology research and educational environment, and to increase the productivity and competitiveness of businesses throughout the state. The primary tasks of MRNet are to promote, facilitate, and support connectivity; disseminate information on computer networking and technologies; pursue connections to other networks; provide a forum for the investigation of computer network issues; and contribute to state, national and international planning in computer net- works.

MRNet's membership is made up of public universities, private colleges, private research foundations, government agencies, and many large and small businesses.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host on the Internet may have access to the MRNet Network Information Center (NIC) or to various members' network hosts as permitted. Supported access includes email, anonymous FTP, news, and nameserver queries.

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

MRNet is available to institutions in the Minnesota area who need to have access to the Internet or to other MRNet members for educational, research, or other scholarly pursuits. Use of connected or gatewayed networks requires agreement to the rules and conditions of those networks.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For further information, contact Dennis Fazio, Executive Director at the phone number or email address listed.

FF

NASAmail Gateway - SMTP to NASAmail Gateway

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Lilly Compton
MS 233-11
NASA Ames Research Center
Moffett Field, CA 94035-1000

_BSE-_BSm_BSa_BSi_BSl: lncompton@ames.arc.nasa.gov
admin/arc@nasamail.nasa.gov

_BSP_BSh_BSo_BSn_BSe: (415) 604-4180

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Gateway to NASA's internal Telemail system called NASAmail.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Send mail to username@nasamail.nasa.gov to send to a NASAmail user with account name ``username.''

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSG_BSa_BSt_BSe_BSw_BSa_BSy

To be used by government employees, government contractors and those needing to contact NASAmail users.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Software problems: call Peter Yee (415) 604-3812 or e-mail to yee@atlas.arc.nasa.gov

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FF

NCSAnet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NCSAnet
attn: Charlie Catlett
National Center for Supercomputing Applications
605 E. Springfield Ave.
Champaign, IL 61820

_BSE-_BSm_BSa_BSi_BSl: network@ncsa.uiuc.edu

_BSP_BSh_BSo_BSn_BSe: (217) 244-8297 [NCSA Networking Office]

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

NCSAnet is a regional supercomputing network with sites primarily located in Illinois, Wisconsin, and Indiana. The NCSAnet private corporate network is national in scale.

NCSAnet is a dual-hub network with hubs on the campuses of the University of Illinois at Urbana-Champaign and at Chicago. The Chicago hub, or, CHUB, is a Chicago area metropolitan network with current members UI-Chicago, Univ of Chicago (see also CICnet), Northwestern (see also CICnet), Illinois Inst. of Tech., Argonne National Laboratory, and Notre Dame. The Urbana hub connects the Univ of Wisconsin Milwaukee and Parkside campuses and Purdue University, as well as private corporate labs in New York, Illinois,

Oklahoma, and Indiana.

Expansion of the academic portion of the network will continue, primarily through a state of Illinois network, netILLINOIS, which has been proposed to connect smaller, primarily undergraduate institutions in Illinois. netILLINOIS is a proposed joint network project led by the Computing Services Office at the University of Illinois and with the National Center for Supercomputing Applications and the University of Illinois at Chicago.

NCSAnet is operated by the National Center for

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Supercomputing Applications in cooperation with the Computing Services Office at the University of Illinois. The CHUB network is operated by the University of Illinois at Chicago.

NCSAnet interoperates with CICnet and other networks to provide access to special resources or to other regional networks and to the NSFNET backbone.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Any IP host of any member organization may access NCSAnet. The corporate portions of the network are private and are not accessible except by special arrangement.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Any of the members can exchange traffic with any other member for any purpose. Any member may use any of the long-haul networks NCSAnet has connections to, subject only to the restrictions of the owner of the long-haul network.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

See also, NCSA and CICnet.

FF

NEARnet- New England Academic and Research Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NEARnet
Bolt Beranek and Newman Inc.
10 Moulton St., Mail Stop 6/3B
Cambridge, MA 02138

_BSE_BSm_BSa_BSi_BSl: nearnet-staff@nic.near.net

_BSP_BSh_BSo_BSn_BSe: (617) 873-8730 [NEARnet hotline]
FAX: (617) 873-5620

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

NEARnet, the New England Academic and Research Network, is a regional high speed data communications network. NEARnet was founded in 1988 by Boston University, Harvard University, and the Massachusetts Institute of Technology to meet a growing need for fast, reliable information exchange. It is linked to other regional and national networks to create a national infrastructure for electronic information.

NEARnet is a cooperative project which continues to grow very rapidly. As of October 1992, NEARnet has grown to 174 member organizations. These members include New England's finest universities, colleges, technology-based industries,

government and private agencies. Since its inception in 1988, NEARnet's management and operations has been contracted to Bolt Beranek and Newman Inc.

Utilizing the Internet TCP/IP protocol suite, NEARnet supports leased-line and microwave links at speeds from 19.2 Kb/s to 10 Mb/s. Dialup IP access is also supported using SLIP starting at 9.6 Kb/s. In addition to technical support, consulting, and user information services, the NEARnet staff maintains a 24-hour-a-day, 7-day-a-week network operations center.

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_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host on the Internet may access NEARnet sites.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Any NEARnet member may exchange traffic with any other member for purposes that are consonant with the NEARnet Acceptable Use Policy. In cases where data communications are carried across other networks, NEARnet members are advised to adhere to the acceptable use policies of these networks. Commercial routing is offered through a cooperative agreement with the CIX and ANS CO+RE Services.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Online information is available via anonymous FTP at nic.near.net. The NEARnet Staff publishes a monthly online bulletin and a hardcopy quarterly newsletter. NEARnet also offers a series of Technical and User Services Seminars for its members and the Internet community.

FF

NSFNET - National Science Foundation Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Merit Network, Inc.
2901 Hubbard, Pod G
Ann Arbor, MI 48109-2016

_BSE_BSm_BSa_BSi_BSl: nsfnet-info@merit.edu

_BSP_BSh_BSo_BSn_BSe: (313) 936-3000
FAX: (313) 747-3185

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Backbone network of the National Science Foundation interconnecting peer networks of NASA, DOE, national mid-level networks, and over 40 countries.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Via peer and mid-level networks.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

For the purposes of use in research and education, according to the guidelines of the National Science Foundation Accept-

able Use Policy.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For more information about NSFNET contact NSF or Merit Network, Inc.:

At NSF:

Steve Wolff	(202) 357-9717	swolff@note.nsf.gov	DNCRI Director
Jane Caviness	(202) 357-9717	jcavines@note.nsf.gov	NSFNET Director

At Merit:

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Eric Aupperle	(313) 763-4897	eaupperle@merit.edu	Project Director
Hans-Werner Braun	(313) 763-4897	hwb@merit.edu	Principal Investigator

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

Merit Network Information Center Services
NIC.MERIT.EDU
FTP.MERIT.EDU
FTP.MICHNET.NET
NIS.NSF.NET
(35.1.1.48)

Merit's Network Information Center host computer, accessible via anonymous FTP, contains a wide array of information about the Internet, NSFNET, and MichNet.

Directory Structure:

Information files are available on this machine under the following directories:

acceptable.use.policies: A directory of policy statements for the acceptable use of the NSFNET backbone and regional networks listed.

cise: Directory owned by the National

	Science Foundation's Computer and Information Science and Engineering component for the placement of NSFNET Backbone Network policy statements and related documents, as well as GAO reports of interest.
cise/recompete:	NSF's Interagency Interim NREN Implementation Plan
documents:	Directory archive for NSFNET, regional, and Internet documents, such as RFCs, Internet Drafts, Internet Monthly Reports, and others.
internet:	Directory devoted to Internet activities: legislative work to promote the NREN and the HPCA,

	publications on research, experiments and use of the Internet, and available resources.
maps:	PostScript maps of NSFNET and MichNet.
michnet:	A directory of information related to MichNet, the regional network in Michigan.
newsletters:	A directory archive for NSFNET, regional, and Internet newsletters, such as the Link Letter, MichNet News, Internet Monthly Reports, and FARNET Gazette.
nren:	House and Senate activity pertaining to the National Research and Education Network (NREN).
nren/hpca.1991:	House and Senate activity leading to passage in 1991 of The High Performance Computing Act.
nren/iita.1992:	House and Senate activity relating to The Information Infrastructure and Technology Act of 1992.
nsfnet:	Archive for administrative, policy

	and statistical information relevant to the NSFNET Backbone networks.
resources:	Information on using the Internet and its available resources, including Merit's Internet Cruise.
statistics:	Statistical reports pertaining to the networks for which Merit provides backbone operation services.
working.groups:	Directory of documents from technical working groups.

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NYSERNet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NYSERNet INC
165 Jordan Rd
Troy, NY 12180

_BSE_BSm_BSa_BSi_BSl: info@nisc.nyser.net

_BSP_BSh_BSo_BSn_BSe: (518) 283-8860

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

A regional TCP/IP and OSI network incorporating 36 (as of 6/29/89) corporate, academic, and government institutions using a T1 (1.5 Mbps) backbone network.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host of any member organization may access NYSERNet. Terminal Server service is available in New York City.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

The corporation also does research in various areas of communications technology.

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FF

Sesquinet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Guy Almes
Dept. of Computer Science
Rice University
Houston, Texas 77251-1892

_BSE-_BSm_BSa_BSi_BSl: almes@rice.edu [Guy Almes], farrell@rice.edu [Farrell Gerbode]

_BSP_BSh_BSo_BSn_BSe: (713) 527-6038 [Almes], (713) 527-4988 [Gerbode]

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Sesquinet is a regional network in Texas. It was organized in 1986 specifically to fill the regional network role within the NSFnet scheme. It has been operational since May 1987.

Sesquinet is primarily an IP network, and connects directly to the NSFnet backbone via an NSS at Rice University.

In cooperation with THEnet we also carry intra-state DECnet Phase IV that can be passed to SPAN/HEPnet.

Our original and slowest lines are 56kb/s, and these remain

the normative circuit technology for access from individual sites. We are deploying T1 circuits in two ways:

o+ In cooperation with THEnet, we are building an intercity redundant high-speed backbone. Initially, this will be a T1 triangle connecting Houston (Rice University), Austin (the University of Texas at Austin), and Dallas (the University of Texas at Dallas).

o+ In addition, some individual sites are connected to this intercity backbone via T1 circuits. The Baylor College of Medicine is the first to do so.

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Throughout this network, cisco gateways are used.

Current members include universities (e.g., Rice, the University of Houston, Texas A&M University, and Texas Southern University were charter members), research laboratories (e.g., the Southwest Research Institute), and industrial organizations (e.g., Rockwell International).

_N_e_t_w_o_r_k _a_c_c_e_s_s

Any IP host of any member organization may access Sesquinet.

_W_h_o _C_a_n _U_s_e _t_h_e _N_e_t_w_o_r_k

Any of the members can exchange traffic with any other member for any purpose. Any member may use any of the long-haul networks Sesquinet has connections to, subject only to the restrictions of the owner of the long-haul network.

_M_i_s_c_e_l_l_a_n_e_o_u_s _I_n_f_o_r_m_a_t_i_o_n

See also, THEnet.

FF

[Discontinued] USAN - University Computing Division

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
1850 Table Mesa Drive
P.O. Box 3000
Boulder, CO 80307

_BSE_BSm_BSa_BSi_BSl: morris@ncar.ucar.edu

_BSP_BSh_BSo_BSn_BSe: (303) 497-1282 [Don Morris]

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The satellite link has been discontinued, and USAN has been disbanded. All of the original USAN sites now have Internet connectivity.

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FF

Westnet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs_BSe_BSs:
Administrative:
Westnet c/o
Patrick J. Burns
Department of Mechanical Engineering
Colorado State University
Fort Collins, CO 80523

Technical:
Westnet c/o
Carol Ward
3645 Marine Street
University of Colorado
Boulder, CO 80309-0455

_BSE-_BSm_BSa_BSi_BSl: westnet@SPOT.COLORADO.EDU

_BSP_BSh_BSo_BSn_BSe: (303) 491-1575 [Pat Burns], (303) 492-5860 [Carol Ward]

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Westnet is a regional network with nodes in the states of Arizona, Colorado, southern Idaho, New Mexico, Utah and

Wyoming.

Westnet is a Wide Area Network operating at moderate (56 kbps) and high (T-1, i.e., 1.544 Mbps) data transmission capacities, providing connectivity from end nodes to the NSFNet backbone. Westnet has connections into the backbone at the National Center for Atmospheric Research (NCAR) in Boulder, Colorado, and at the University of Utah in Salt Lake City, Utah. The goal of Westnet is to provide the regional infrastructure to support research and scholarly activity.

The member organizations are universities, research laboratories, and commercial organizations. Westnet is governed

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by the Westnet Steering Committee, with representation from the seventeen primary university nodes in the six-state region.

A variety of organizations already participating in this network include: in Colorado: Ford Aerospace, the US Department of Agriculture, and US West Communications; in Idaho: the Idaho National Engineering Laboratory; in New Mexico: the Air Force Weapons Laboratory, the Apache Peak Observatory, the Los Alamos National Laboratory, the National Sunspot Observatory, Rockwell International, and the Santa Fe Institute; and in Utah: the UMC Research Station.

Westnet interoperates with the state networking agencies of: AriZona Telecommunications Educational Cooperative (AZTEC), Colorado SuperNet (CSN), and New Mexico Technet (NMT). State networking organizations are presently being considered in Idaho and Utah. Westnet interacts with these state networks to provide access to special resources (for example, the NSF Phase II Supercomputer Centers) and to other regional networks (for example, Northwestnet in the northwestern region of the United States).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Any IP host of any member organization may access Westnet.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Any of the members can exchange traffic with any other member in the support of research, education and/or scholarly activity. Any member may use any of the long-haul networks Westnet has connections to, subject only to the restrictions of the owner of the long-haul network. Members within the states of Arizona, Colorado and New Mexico may use the intra-state network for additional purposes particular to those states.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

See also, Colorado SuperNet and New Mexico Technet.

FF

Los Alamos National Laboratory Integrated Computing Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Los Alamos National Laboratory
Attn: C-DO, External Computing
B260
Los Alamos, NM 87545

_BSE-_BSm_BSa_BSi_BSl: skf@lanl.gov

_BSP_BSh_BSo_BSn_BSe: (505) 667-9463

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The computer environment at the Los Alamos National Laboratory (LANL) is supported by a multi-security level Integrated Computing Network (ICN) which integrates large host supercomputers, a file server, a batch server, a printer and graphics output server and numerous other general purpose and specialized systems. Among the latter are experimental machines such as the Intel Hypercube, the FPS T-series machine and two Connection Machines. In addition to unclassified network access, remote, secure access over LANL installed encrypted data links is supported for classified computing up to the Secret level for NSI, FRD and CNWDI

information categories. Current (August, 1989) production host systems include two Y-MP/832s, two X-MP/416s, one X-MP/48, one X-MP/24 and an X-MP/14. The latter machine runs UNICOS while the others run CTSS.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

External networks connected to the ICN include MILNET, ESNET, NMFENET, HEPNET, BITNET, CSNET, SPAN, NSFNET, NWCNET and TELENET. In addition, LANL maintains a national T-1 backbone network supporting point-to-point, unclassified and secure data links to major users of the ICN. Dial-in access at up to 9600 bps is also supported for both classified and unclassified connections.

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

US Government agencies and their contractors requiring services uniquely provided by LANL. For further information, please call Kay Fletcher (skf@lanl.gov) at (505) 667-9463.

FF

NASA Science Network (NSN)

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Network Information Center
NASA Science Network
MS 233-18
NASA Ames Research Center
Moffett Field, CA 94035

_BSE-_BSm_BSa_BSi_BSl: nsnnic@nsipo.nasa.gov

_BSP_BSh_BSo_BSn_BSe: (415) 694-5859 or (FTS) 464-5859

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The NASA Science Network (NSN) is an IP network which supports scientists and flight projects funded by NASA's Office of Space Science and Applications (OSSA). The network is used to provide remote access to such resources as scientific databases and supercomputing centers. The NSN maintains hubs at several NASA centers which are interconnected in a partial mesh topology. These backbone sites use terrestrial circuits ranging in speed from 168 to 672 Kbps. From these hubs radiate numerous tail circuits; the majority of these tails are 56 Kbps, with a few at 9.6 Kbps as well.

The NSN was designed to provide NASA's scientific communities with a more general networking approach that would provide full networking services in a vendor-independent environment. These services include file transfer and remote logon as well as email.

NSN is a NASA-wide network managed by the NASA Science Internet Project Office (NSIPO) at Ames Research Center. It is used for NASA-funded space science research programs and flight projects.

Users include NASA sites, and government facilities, research, and academic sites conducting NASA-funded research.

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_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Network access is limited to users who are accessing NASA resources.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Access is limited to facilities which are working on NASA-funded research. It may not be used for private or commercial profit.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

In addition to NSN, the NASA Science Internet also operates SPAN, the Space Physics Analysis Network which utilizes DECnet protocols. NSI maintains applications gateways that provide connectivity between SPAN and NSN.

FF

PREPnet - Pennsylvania Research and Economic
Partnership Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
PREPnet
305 S. Craig Street
Pittsburgh, PA 15213

_BSE_BSm_BSa_BSi_BSl: prepnet+@cmu.edu

_BSP_BSh_BSo_BSn_BSe: (412)268-7870
FAX: 412-268-7875

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

PREPnet is a mid-level data network in the Commonwealth of Pennsylvania. It was initiated through the joint efforts of the Commonwealth of Pennsylvania government, Bell Telephone of Pennsylvania, and the Pennsylvania consortium of universities: Carnegie Mellon University, Drexel University, Lehigh University, Penn State Universtiy, Temple University, the University of Pennsylvania, and the University of Pittsburgh. Chartered in 1988, PREPnet's purpose is to facilitate education, research, technology transfer, and economic

development within the state.

The Commonwealth is the inter-LATA carrier and Bell of Pennsylvania is the network operator/ owner of the hub equipment and marketing agent for network access. The Pittsburgh Supercomputing Center provides supercomputing resources and a gateway to the NSFNET. Member institutions have made a variety of information resources available on PREPnet, such as university library catalogs, bulletin boards, and various databases containing statistical, agricultural, demographic, economic, and medical data.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host at any member or affiliate organization may access PREPnet. Access options range from intermittent

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dialup to dedicated T1 connections

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Organizations operating within Pennsylvania involved in education, research, technology transfer, or the economic development of Pennsylvania are eligible to participate. Non-profit institutions may become members, and others may affiliate. Usage consistent with the above purposes is considered acceptable while commercial usage compliant with ANS policies can be obtained. PREPnet does not presently carry transit traffic whose source and destination are both outside the state.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Executive Director: Thomas W. Bajzek, twb+@cmu.edu
NIC Manager: Marsha L. Perrott, twb+@cmu.edu

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

General information about PREPnet is available for anonymous FTP from ftp.prepnet.com in the prepnet/general directory.

FF

SURAnet - Southeastern Universities Research Association Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
SURAnet
8400 Baltimore Blvd.
College Park, MD 20740

_BSE_BSm_BSa_BSi_BSl: help@sura.net

_BSP_BSh_BSo_BSn_BSe: (800) 787-2638 (SURAnet)
FAX: (301) 982-4605

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

SURAnet, the Southeastern Universities Research Association Network, is a project of SURA, the Southeastern Universities Research Assocation. SURA is a consortium of universities which supports, manages, and operates projects too large or complex to be handled by a single university.

SURAnet, a TCP/IP network, is one of the NSFNET mid-level networks. Connectivity is provided via a T-1 backbone of co-located equipment housed in MCI points of presence. Future plans include migration to a T-3 backbone.

SURAnet is connected to the NSFNET backbone and provides facilities for the FIX-East connections.

SURAnet's geographic area includes the District of Columbia and 13 states in the southeastern US: Alabama, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia.

While SURA, the parent organization, is a consortium of academic organizations, SURAnet members comprise approximately two-thirds academic institutions and one-third non-academic sites.

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_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host of any member organization may access SURAnet. We provide Archie services at archie.sura.net. Dial-up is not provided at this time.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

We follow the guidelines set forth by NSFNET.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Hours of operation:	24x7 with limited holiday coverage
Administrative contacts:	Jack Hahn (hahn@sura.net) Dave Littleton (dlittlet@sura.net)
Additional e-mail addresses:	suranet-admin@sura.net nic@sura.net noc@sura.net

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

Interested persons may "ftp" the "README" file located on "ftp.sura.net" in the directory "pub", which lists all

information available for anonymous ftp.

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UUNET Technologies, Inc. - Electronic Mail and News Services

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:

UUNET Technologies, Inc.
3110 Fairview Park Drive, Suite 570
Falls Church, VA 22042 USA

_BSE-_BSm_BSa_BSi_BSl: info@uunet.uu.net

_BSP_BSh_BSo_BSn_BSe: (703) 876-5050, (800) 4UUNET4
FAX: (703) 876-5059

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

UUNET Technologies electronic mail and news services provide a dedicated, accessible, reliable facility for international electronic mail and electronic news, including mail access to the Internet. UUNET offers over 2,300 direct mail connections, acts as an Internet mail forwarder, and offers full or partial news feeds. UUNET also offers over 3 gigabytes of publicly available software via UUCP or 900 number. Specific files from the archive are available on magnetic

tape. Domain registration is also available.

UUNET offers commercial Internet access through AlterNet. For more information on AlterNet, please see the AlterNet entry in the Internet Resource Guide.

_N_e_t_w_o_r_k _A_c_c_e_s_s

UUNET is on the Internet and UUCP networks. UUNET runs AlterNet a commercial provider of Internet services. UUNET also serves as the principal gateway to European, Australian, Asian and South American UUCP sites.

_W_h_o _C_a_n _U_s_e _U_U_N_E_T

Email and news access is restricted to UUNET subscribers and

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their correspondents. UUNET's archive can be accessed by Internet sites by anonymous ftp to the host ftp.uu.net. Non-subscribers may access the archive using uucp and the number 1-900-GOT-SRCS. There is a nominal fee to use the 900 number.

_M_i_s_c_e_l_l_a_n_e_o_u_s

800 Numbers Available

1-800-4UUNET3 (488-6383)	AlterNet Information
1-800-4UUNET4 (488-6384)	General Information
1-800-4UUNET5 (488-6385)	To buy Telebit modems

_R_e_f_e_r_e_n_c_e_s

Information about UUNET and its services is available via ftp on the host ftp.uu.net.

/index	Various UUNET archive indexes
/info	Archive Information
/uunet-info	UUNET services and pricing

FF

NORDUnet - The Nordic Backbone Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NORDUnet
c/o UNI-C
Bygn. 305, DTH
DK-2800 Lyngby
DENMARK

_BSE_BSm_BSa_BSi_BSl: Peter.Villemoes@uni-c.dk

_BSP_BSh_BSo_BSn_BSe: +45 45 938355
FAX: +45 45 930220

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

NORDUnet is a collaboration between the national research networks in Denmark, Finland, Iceland, Norway and Sweden. Its purpose is to provide the national research and education communities with an efficient networking service which ensures coherence of the national R & D networks and connects these to similar networks in the rest of Europe and the world.

NORDUnet is organized as a consortium agreement between the

national networks DENet, FUNET, SUNET, SURIS and UNINETT. The administration is an integral part of UNI-C in Denmark.

NORDUnet has contracted its work mainly to the national organizations. The network operations center has been contracted to KTH/SUNET. It is their responsibility to monitor the service, configure the Cisco routers (IP) as well as coordinate operational issues. The X.25 operations have been contracted to UNINETT and DECNET operations to UNI-C. Overall technical coordination has been contracted to VTKK/FUNET.

NORDUnet has five points of presence, one in each of the Nordic countries.

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UNI-C
Building 305 DTH
DK-2800 Lyngby
DENMARK

FUNET/VTKK
Tietotie 6
Espoo
Finland

SURIS
University of Iceland
Dunhaga 5 IS-107 Reykjavik
Iceland

SINTEF/DELAB
N-7034
Trondheim
Norway

KTH/SUNET
S-100 44
Stockholm
Sweden

NORDUnet provides IP, DECNET, X.25 and CLNS layer 3 services, in this order of volume. NORDUnet leases bandwidth in form raw lines and adds value by providing the network layer protocols in a coordinated fashion with equipment operated

through various contracts. The national networks which are the NORDUnet customers see it as a "NORDUnet plug" which provides different service "pins".

NJE traffic is transported over TCP/IP. The CLNS (including DECNET Phase V) pilot traffic is carried by the same Cisco's as the production traffic. The external connections are mainly based on Cisco routers. NORDUnet runs IP and CLNS protocols to the US and IP, CLNS and DECNET IV to Europe. X.25 connectivity to Europe is provided via a direct connection to the IXI network.

There are app. 60.000 IP hosts, 5000 DECnet hosts, and 100 EARN hosts in the Nordic national networks that are interconnected by NORDUnet. NORDUnet connects the national Nordic networks to Internet, Ebone, EASInet, EARN/BITNET, EUnet, HEPnet, SPAN and IXI.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

NORDUnet can only be used for academic and research traffic.

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

Documents available by anonymous ftp and gopher from nic.nordu.net

FF

[Discontinued] CMR - Commercial Mail Relay

The Commerical Mail Relay (CMR) at isi.edu, in the USC/Information Sciences Institute, Marina del Rey, CA is scheduled to cease operations in September 1992.

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Terrestrial Wideband Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Terrestrial Wideband Network
c/o BBN Systems and Technologies Corp.
10 Moulton St.
Cambridge, MA 02138
Attn: Karen Seo

_BSE-_BSm_BSa_BSi_BSl: wbhelp@bbn.com

_BSP_BSh_BSo_BSn_BSe: (617) 873-3427 (Terrestrial Wideband Network hotline)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Terrestrial Wideband Network was built and deployed by BBN STC as a part of the initial phase of the Defense Research Internet (DRI). In May 1989, this network replaced the Satellite Wideband Network, which had been in operation for the previous 8 years. The Satellite Wideband was a domestic 3 Mbit/sec network that had been used for research into the use of packet satellite technology to efficiently support applications with varying delay, throughput, and reliability requirements, e.g., interconnection of distributed operating system clusters, development of end-to-end bulk transfer protocols, multimedia conferencing, intercon-

nection real-time interactive simulation/training systems. The Terrestrial Wideband continues this tradition by using one of the cross-country T1 trunks from the DARPA National Networking Testbed (NNT) to support research in high speed networking, to provide connectivity among academic and government sites, and to support a testbed for Internet protocol development and experimentation with applications. Currently this network is carrying cross-country Internet datagram traffic associated with DARPA-funded projects. It also supports a research environment for multimedia conferencing and voice/video conferencing using gateways which use a real-time connection oriented protocol over a connectionless network.

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Access to the Terrestrial Wideband is typically via an IP or ST gateway. Connection of such a host is at the discretion of DARPA. The current network includes the following Wideband Packet Switches (WPS) and user sites -- BBN (BBN), NY (RADC), Washington (DARPA, NRL), Chicago (NCSA), LA (ISI), SRI (SRI, Stanford). This fall, Ft Monmouth will be connected to the NY WPS and CMU will be connected to a WPS to be installed in Pittsburgh.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

The Terrestrial Wideband Network is to be used for DARPA-funded research and development activities of the Internet community. Users typically access the network via gateways which have Internet connectivity to the Terrestrial Wideband Network. Applications which might benefit most from the Terrestrial Wideband Network are those which require high bandwidth and/or low delay between geographically distant sites, such as bulk file transfer, remote procedure calls, conferencing, graphic simulations, and distributed operating systems.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

a) System and Network Architecture

The Terrestrial Wideband is currently a trans-

continental network built on T1 trunks belonging to the National Networking Testbed (NNT). The Wideband packet switch nodes (WPSs) are located at unattended NNT Points of Presence (POPs). They are based on Butterfly multiprocessor hardware and are connected via the T1 fiberoptic trunks into a backbone configuration. The WPSs pass network traffic using the Dual Bus Protocol reservation scheme. Local area networks at user sites, e.g., ethernets, are connected to the backbone packet switches via Internet IP and ST gateways and T1 tail circuits.

The current topology of the network, which resulted from external constraints, is a series of packet switches connected in a line by T1 trunks. This can result in partitioning of the network in the event of a packet switch failure. To minimize outages, the Terrestrial Wideband Network includes a number of features. The multiprocessor hardware configuration used for the packet switch provides redundancy in case

a processor node fails. Also, a failsafe box isolates the WPS upon detection of an outage while continuing to maintain connectivity between the T1 trunks in and out of the failed WPS, thus maintaining network continuity. The network also allows remote dial-in access for a number of emergency functions that would otherwise have to be performed by on-site staff.

b) Operations

A remote monitoring center provides network control capabilities, and a dialup capability provides backup monitoring and control when necessary. The Terrestrial Wideband Network packet switch software can be updated via remote downloading. Network operations support is provided between 8AM and 8PM Eastern time.

c) Protocols

- TCP/IP traffic is supported by the Terrestrial Wideband Network. This is accomplished by using standard Internet gateways.

- Stream Protocol (ST) protocol (based on IEN 119) is used between gateways which support voice/video traffic. This is a connection-oriented protocol which operates over the connectionless Terrestrial Wideband Network, and allows the gateways to send packets to other destinations with minimal delay, as is required for voice/video conferencing.

- Gateways communicate with the Terrestrial Wideband Network packet switches (WPSs) via the Host Access Protocol (HAP), specified in RFC 907-A. This is a protocol by which a host can send datagrams across the network, and can request and manage network bandwidth.

- The WPS software provides an echo host which responds to ICMP ping packets.

- Dual Bus Protocol provides a link-level transport protocol which uses a reservation mechanism to provide access fairness for each WPS. This is a type of Distributed Queue Dual Bus (DQDB) protocol similar to the IEEE 802.6 Metropolitan Area Network (MAN) protocol, but with features that support wide area networking and multimedia conferencing. Whereas conventional packet store and forwarding would involve per packet forwarding processing and buffering at every intermediate

node, a DQDB protocol performs processing and buffering only at the entry point and minimizes the processing and buffering at subsequent nodes along the trunk until the exit point.

- Wideband Monitoring Protocol (IP protocol number 78) is used between the WPSs and the monitoring center.

FF

International Collaboration Board Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
ICBNet
c/o BBN Systems & Technologies Corporation
10 Moulton Street
Cambridge, Massachusetts
02138
Attention: Stanley Silverman

_BSE-_BSm_BSa_BSi_BSl: icbnet-staff@bbn.com

_BSP_BSh_BSo_BSn_BSe: (617) 873-2447 (Silverman)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The ICBNet establishes Internet links between the ARPANET and cooperating groups of researchers within NATO sites, providing transit service and a testbed for joint NATO C3 and interoperability experiments. These links have replaced the old SATNET (Atlantic Packet Satellite Network) service. Point-to-point trans-Atlantic service between the US and the UK and between the US and Italy connects the ARPANET with local networks at the Royal Signals and Radar Establishment (RSRE) and the University College London (UCL), both in the UK, and at the Italian National Research Council (CNUCE) in Italy. The Norwegian Telecommunications Administration

Research Establishment (NTARE) accesses the network via RSRE. Connections to the SHAPE Technical Centre (STC) in the Netherlands and the Warrior Preparation Center (WPC) in West Germany will be added within the next few months.

The US-to-Europe links are provided via full duplex 64kbps connections between a Butterfly Gateway located at BBN in Cambridge, and the Butterfly Gateway at RSRE, and between the Butterfly Gateway at DARPA in Arlington, Va., and the Butterfly Gateway at CNUCE.

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CONCERT Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
CONCERT Network
MCNC
3021 Cornwallis Road
P.O. Box 12889
Research Triangle Park, NC 27709

_BSE_BSm_BSa_BSi_BSl: info@concert.net

_BSP_BSh_BSo_BSn_BSe: (919) 248-1999

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

CONCERT (COmmunications for North Carolina Education, Research, and Technology) is a private telecommunications network owned and operated by the Center for Communications at MCNC to interconnect universities, research institutions, graduate centers, non-profit organizations, government laboratories, and industries in North Carolina, permitting timely participation in research and education projects. The CONCERT Network Operations Center is located at MCNC in Research Triangle Park.

CONCERT is actually two networks; one for video, one for data. Both are carried over CONCERT's private microwave

facilities that span 453 path miles from Asheville in the west to Greenville in the east.

CONCERT OBJECTIVES

- Provide and operate an advanced communications network for research and education.

- Build a collaborative university and industry program.

- Serve as a test bed for next-generation services and systems.

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- Participate in the deployment of National Research and Education Network (NREN) for North Carolina.

- Develop high-performance capabilities in visualization, supercomputing, and distributed systems.

VIDEO NETWORK

CONCERT utilizes two duplex analog NTSC video channels that function as a multi-way, interactive videoconferencing network to encourage research, education, and technology transfer. An additional duplex video channel connects the state's four medical schools. The interactive video channels provide face-to-face communications capabilities among all institutions. Each institution has videoconference and video teleclass facilities.

Specific programs and applications include:

- videoconferencing capabilities for researchers and faculty;

- graduate and extension courses in a variety of disciplines;

- seminars in supercomputing and high-performance computation;

- research collaborations among members of the research community;

- scientific and technical seminars and workshops; and

- medical courses and programs.

Sixty percent of the available video network time is booked for courses and regularly scheduled seminars, with the remaining time reserved for meetings and conferences. This open time provides researchers and faculty the opportunity to meet as required with little prior notice.

DATA NETWORK

The CONCERT data network functions as a mid-level TCP/IP network providing access to the INTERNET, a collection of data networks across the nation and world interconnecting universities, government agencies, national laboratories,

non-profit research organizations, and industry. Through CONCERT, North Carolina researchers from academia, government, and industry have access to these resources as well as electronic mail and USENET news for communications, learning, and collaboration with colleagues.

The CONCERT network is built from an interconnected collection of IP routers spanning the state. T3 links are utilized for the Triangle campuses; T1 circuits for institutions outside the Triangle area. More than 10,000 computers and workstations are interconnected across North Carolina.

CONCERT-CONNECT

CONCERT-CONNECT, a program of the MCNC Center for Communications, provides North Carolina businesses and industry an opportunity to gain access to state and national research and education resources through the INTERNET. CONCERT-CONNECT can provide a company a significant competitive edge in research and development.

Businesses and industry interested in connecting to CONCERT can use the network for collaboration, research, and education. Network connection provides users with access to email, bulletin boards, various databases, and other network and institutional resources. Connection to CONCERT can be achieved by direct network connection at 56 Kbps or T1 speeds, or by three dial-up modem services: Serial Line Internet Protocol (SLIP); individual UNIX accounts; UUCP Mail/News.

COMMUNICATIONS RESEARCH

The primary purpose of the research activities is to leverage the evolution of CONCERT to support advanced educational uses of the network and communications research in North Carolina. The existing network and established userbase is utilized as a testbed, and the focus of the research is joint activities among MCNC, the universities, and industry. Projects tend to emphasize use of standard network technologies, supercomputing communications applications, and methods to use networking to enable collaboration by providing virtual proximity capabilities.

Currently Funded Projects:

- Atila-development of a prototype network analysis-evaluation-management system for Asynchronous Transfer

Mode networks.

- VISTAnet-a testbed that provides a 2.488-Gbps wide area network connecting the CRAY Y-MP, the Pixel Planes graphic processor, and SGI 340 VGX. Research programs center on meeting the challenges of gigabit networking: efficient communications, distributed computing, and applications. (Partners: BellSouth, GTE, UNC-Chapel Hill, NCSU, CNRI.)

- Shared X-Windows/Workstation Collaboratory-a joint program with NCSC and UNC-Chapel Hill emphasizing remote interactive graphics on high-end workstations located in CONCERT video- conference rooms. Advanced visualization applications and shared computing environments are featured.

- Traffic Characterization-a study to measure and mathematically characterize the traffic statistics (packet length and interarrival times) of CONCERT.

- Packet Video-seeks to make evolutionary changes to TCP/IP protocols to support interactive video traffic.

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Any research facility, educational institution, non-profit organization, government laboratory, commercial company, or individual may join the network under either education/research or commercial options.

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Use of CONCERT and/or the Internet is subject to appropriate acceptable use policies of the various constituent networks. CONCERT maintains agreements that permit both research/education organizations and commercial service providers to connect to the Internet.

FF

SWITCH - Swiss University and Research Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
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CH-8001 Zurich
SWITZERLAND

_BSE_BSm_BSa_BSi_BSl: Postmaster@switch.ch

_BSP_BSh_BSo_BSn_BSe: +41 1 256 5454
FAX: +41 1 261 8133

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

SWITCH is a foundation, sponsored by the government and the Swiss universities, providing teleinformatics services to all Swiss universities and to various research institutes by connecting to national and international resources. SWITCH started operation in October 1988.

SWITCHlan is a national backbone network which connects all universities using leased lines with speeds between 128 kbit/s and 2 Mbit/s. Most other organizations are connected via 64 kbit/sec. For routing on these national leased lines SWITCH uses CISCO routers. The protocols supported are DECnet, TCP/IP, X.25 and ISO CLNS.

All three Swiss supercomputers are connected to SWITCHlan.

Access to some library catalogs is already available; others will join later.

International connections on the network level went into operation in January 1990. The current state today is:

- Two lines with TCP/IP to CERN, each 2 Mbit/s. This gives access to the European part of the Internet and access to the NSFnet via the EASIgate T1 link to Cornell.

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- TCP/IP and ISO CLNS connection to Nice, France with 64kbit/s; this link is the backup route to the Internet/NSFnet.

- A TCP/IP 64 kbit/sec line to BelWue, a regional research network in southern Germany.

A 64 kbit/sec connection to the COSINE/IXI pilot X.25 network has been running since the first quarter of 1990. This infrastructure is mainly used for exchanging X.400 messages, connecting to other X.500 DSAs and for TCP/IP over X.25 and ISO CLNS over X.25 with the European Academic and Research Community.

SWITCHmail is the national X.400 MHS network which connects the universities and research institutes to the ADMD of the Swiss PTT and through COSINE-MHS to research MHS networks in 19 countries. E-mail gateways to EARN/BITNET, UUCP and Internet are also offered by SWITCH.

In RARE (Reseaux Associes pour la Recherche Europeenne, the European research network organisation), SWITCH is an active partner in the COSINE MHS project as well as in the COSINE pilot X.500 Directory Service project and the COSINE Information Service project.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any host on the network of a connected organization may access the network, as long the usage complies with the use policy of SWITCH.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BS

r_BSk

SWITCH networks can only be used for academic and research traffic.

FF

NevadaNet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NevadaNet
System Computing Services/270
Reno, NV 89557

_BSE_BSm_BSa_BSi_BSl: info@nevada.edu

_BSP_BSh_BSo_BSn_BSe: (702) 784-4827

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

NevadaNet is an initiative of the University and Community College System of Nevada with funding assistance from the National Science Foundation and the State of Nevada. NevadaNet is a state-wide network and currently serves the Desert Research Institute and all public institutions of higher education in Nevada. A hub in Reno is connected to the Network Operation Center in Las Vegas via two 1.54 mbps circuits. The Las Vegas NOC is connected to the NSFNET backbone in San Diego at 1.54 mbps. NevadaNet is TCP/IP network with connections available up to T-1.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host on the Internet may access NevadaNet.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BS

r_BSk

Any individual or organization having Internet needs in support of education and/or research may request participation in NevadaNet. Appropriate connections and use follow the guidelines or policies of the National Science Foundation, the Federal Research Interagency Coordinating Council and the Federation of American Research Networks.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

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NOC Manager: Van Weddle (702) 739-3883
weddle@uns-helios.nevada.edu

NIC Manager: Becky Seibert (702) 784-4343
seibert@unssun.nevada.edu

Executive Director: Don Zitter (702) 784-6133
zitter@nevada.edu

FF

BARRNet, the Bay Area Regional Research Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Pine Hall, Rm. 115
Stanford University
Stanford, CA 94305-4122

_BSE-_BSm_BSa_BSi_BSl: info@nic.barrnet.net

_BSP_BSh_BSo_BSn_BSe: (415) 725-1790

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

BARRNet is the Northern California regional hub of the NSFNet, the National Science Foundation Network. BARRNet's purpose is to facilitate scientific and educational communications using high-performance computer networking technology and wide-area telecommunications utilities, and to promote collaboration, sharing of information, and wide access to computer resources for research and educational purposes. BARRNet was established in 1986 under a grant from the NSF by a consortium of six members: Stanford University, the NASA Ames Research Center, and the Berkeley, Santa Cruz, San Francisco, and Davis campuses of the University of California. Since then BARRNet has grown to include several additional government and private research laboratories and more than twenty-five corporate affiliates.

Four BARRNet sites-UC Berkeley, Stanford University, the

Lawrence Livermore National Laboratory, and NASA Ames-are connected in a ring by data circuits running at T1 speed (1.544 Mbps). UC Davis, which is connected to UC Berkeley by a T1 line, is also considered a core site; the remaining sites are connected to one of the core sites, typically by T1 or 56kbps lines, but in some cases by microwave or direct Ethernet (10 Mbps) connections. BARRNet is connected to the NSFNET by an NSS (Nodal Switching Subsystem) located at Stanford University. Stanford is also the site of the BARRNet Network Operating Center, or NOC.

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Beginning in April of 1990, BARRNet's membership fees will be adjusted to reflect size and type of organization, as well as connection speed. Also during the spring and summer of 1990, BARRNet will be implementing low-speed (9600 bps) dedicated line services, with dial-up services available shortly thereafter.

An Administrative Committee oversees BARRNet policy, finances, and general operations. A Technical Committee advises the Administrative Committee, and oversees day-to-day operations such as routing.

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Any host on a network connected to BARRNet can reach (and be reached from) any host on any network on NSFNet and most other parts of the Internet.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSB_BSA_BSR_BSR_BSN_BSe_BSt

BARRNet's primary use is for scientific research or instruction by its non-profit members. Use of BARRNet in support of a not-for-profit member's research or instruction is acceptable. Use of BARRNet for scientific research or instruction at for-profit affiliate sites may or may not be consistent with the purposes of BARRNet, and will be reviewed on a case-by-case basis. Commercial uses such as billing or advertising are prohibited.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

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Network Operating Center

Manager: Ron Roberts
Business Hours: (415) 723-7360
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FF

NorthWestNet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
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15400 SE 30th Place, Suite 202
Bellevue, WA 98007

_BSE-_BSm_BSa_BSi_BSl: info@nwnet.net
Network Operations Center: noc@nwnet.net

_BSP_BSh_BSo_BSn_BSe: (206) 562-3000
FAX: (206) 562-4822
Network Operations Center: (206) 543-5128

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

NorthWestNet is a regional (mid-level) network of the National Science Foundation Network (NSFNet) providing communication with NSFNet for knowledge-based organizations in Alaska, Washington, Oregon, Idaho, Montana, and North Dakota. Member organizations include higher education and K-12 institutions, scientific laboratories, libraries, health care facilities, and industrial research units. The mission of NorthWestNet is to promote research, education, and economic development by providing access to network communications, computing and electronic information systems and services throughout the Northwest. Financial support of NorthWestNet comes from National Science Foundation (NSF) grants, institutional membership dues, and network service fees. NorthWestNet is a not-for-profit organization

operated by the Northwest Academic Computing Consortium, Inc. (NWACC). This consortium of NorthWestNet members is governed by a Board of Directors elected from representatives of member organizations. There are three operating committees made up of member organization representatives focusing on Management, Technical Services, and User Services.

The Technical Services Committee is responsible for reviewing and recommending technical directions of the network.

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Currently, the network is based upon the TCP/IP protocol. Network Operations Center (NOC) services are provided under subcontract by the University of Washington's Computing and Communications. The NOC provides network engineering services, 24-hour-a-day monitoring of the network, diagnosis and repair, Domain Name Service, and other technical services necessary for ensuring the operational integrity of the regional network.

The User Services Committee focuses on documentation and training issues as they relate to use of the Internet. Vehicles for providing these services include the following: the NorthWestNet User Services Information Resource Guide, Node News quarterly newsletter, and the NorthWestNet annual meeting. The NorthWestNet User Services Internet Resource Guide is updated biannually and is available either in a hardbound published version (contact the administrative office for ordering information) or via anonymous ftp at ftphost.nwnet.net in the directory nic/nwnet/user-guide. The Node News newsletter gives up-to-date reports on current NorthWestNet activities. The Annual Meeting sponsored by NorthWestNet highlights Internet resources and services and offers discipline-specific workshops. Several new User Services offerings are under development including an on-line information center, specialized training programs, and a documentation database.

The Internet connection provided to NorthWestNet members brings a plethora of services including access to a wide-variety of databases, text, and information services; program repositories; information mediators such as archie, gopher, WAIS, and world-wide web; supercomputers; Usenet, listserv, and internet interest group forums; and a mail gateway machine. NorthWestNet members also enjoy common

access services to for-fee database and information resources via an on-line license management system.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host on the Internet may access NorthWestNet sites.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Use of the network is governed by an acceptable use policy which is available on request or via anonymous ftp at ftphost.nwnet.net in the directory /nic/nwnet/doc.

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

General information about NorthWestNet can be retrieved via anonymous ftp at ftphost.nwnet.net in the directory /nic/nwnet/doc.

FF

SUNET

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
SUNET
Umea Computing Center
S-901 87 Umea
SWEDEN

_BSE-_BSm_BSa_BSi_BSl: sunet-staff@sunet.se (Operations staff)

_BSP_BSh_BSo_BSn_BSe: +46 90 16 61 00 (Hans Wallberg)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

SUNET, or the Swedish University Network, interconnects local and regional networks at universities in Sweden. The goal of SUNET is to provide good data communications that are beneficial to the universities. The network is used by researchers and teachers of all disciplines. SUNET provides Swedish academic and research users with network resources for communications both within Sweden and around the world through electronic mail, remote login, file transfer, and other methods.

SUNET is a protocol-independent network based on Ethernet (IEEE 802.3) interconnections. Currently only IP and DECnet (and EARN) are carried over the backbone. The configuration of SUNET is a backbone star network centered at KTH in Stockholm with 64 kbps lines interconnecting the local Ethernets to one nation wide Ethernet. The lines are interconnected via remote bridges (Vitalink). Routers are used to

support the various protocols: Cisco for IP and VAXes for DECnet (and EARN). SUNET also maintains a separate X.25 network.

There are two interconnected central mail hubs, one for IP/SMTP, RSCS/BSMTP and VMS/Mail and one for EAN/X.400 mail.

There are (at least) 3000 IP hosts and 650 DECnets in SUNET.

SUNET has international connections to

o+ EARN (via NORDUnet)

o+ EUnet via NORDUnet

o+ HEPnet via NORDUnet

o+ NORDUnet

o+ NSFNET via NORDUnet

o+ SPAN via NORDUnet

o+ EANnet

_N_e_t_w_o_r_k _A_c_c_e_s_s

It is possible for any IP host on the Internet to access SUNET.

_W_h_o _C_a_n _U_s_e _t_h_e _N_e_t_w_o_r_k

SUNET may only be used for academic and research traffic.

_M_i_s_c_e_l_l_a_n_e_o_u_s _I_n_f_o_r_m_a_t_i_o_n

See also the information about NORDUnet.

For more information about SUNET contact:
Hans Wallberg, Manager +46 90 16 61 00
hwg@umdc.umu.se
Bjorn Eriksen, Head of operations +46 8 790 6513
ber@sunet.se

FF

THEnet - The Texas Higher Education Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Texas Higher Education Network Information Center
Office of Telecommunication Services
Service Building, Room 319
Austin, TX 78712-1024

_BSE_BSm_BSa_BSi_BSl:

Internet: info@nic.the.net
BITNET: INFO@THENIC
SPAN: UTSPAN::THENIC::INFO
THEnet (DECnet): THENIC::INFO

_BSP_BSh_BSo_BSn_BSe: (512) 471-2444
FAX: (512) 471-2449

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Texas Higher Education Network (THEnet) was formed in 1986 through a combination of networking efforts at Texas A&M University, the University of Houston, the University of Texas Health Science Center at San Antonio, and the University of Texas System. It covers the state of Texas, with a link to the Instituto Tecnologico y de Estudios Superiores de Monterrey in Monterrey, Mexico. THEnet's goal is to provide and advance the electronic exchange of information in support of the teaching, research, development, and related

collaborative activities of the Texas higher education and research communities.

THEnet is not a homogeneous network utilizing a single networking protocol. Rather it is a network of physical connections between and within organizations making various use of IP, DECnet, SNA, RSCS/NJE, and compressed digital video It provides researchers, faculty, and students the networking "tools" that they need for their particular situations. THEnet currently connects over 80 institutions, and consists

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of approximately 3000 DECnet nodes, over 10,000 IP hosts, appx. 150 BITNET nodes, and 10 IBM mainframe hosts connected over SNA.

Network Services

Network information and operations management are provided through the University of Texas (UT) System Office of Telecommunication Services (OTS). The OTS provides both network information center (NIC) and network operations center (NOC) services to THEnet member institutions.

Informative documents are available on node nic.the.net (Internet) via anonymous FTP, and THENIC (DECnet) via default DECnet file access. See the file THENET.INDEX for a list of available documents.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

THEnet is an NSF regional network, with access to the NSFNET backbone through the NSS (Nodal Switching Subsystem) at Rice University in Houston. THEnet is connected to the Space Physics Analysis Network (SPAN) by DECnet routers at the University of Texas at Austin and NASA Johnson Space Center. Access to ESnet and HEPnet (ESnet-DECnet) is also provided through UT Austin, an ESnet backbone site. THEnet has external BITNET connectivity provided by Rice University via connections to the University of Missouri and Louisiana State University and by their participation in the BITNET II project (NJE over the TCP/IP-based Internet).

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Membership in THEnet is open to all institutions of higher education in the state of Texas, as well as their affiliated research institutions. Commercial institutions which can demonstrate an education or research relationship to any THEnet higher education member are also eligible to join. Queries about membership or additional information should be directed to the postal address or one of the electronic mail addresses given above.

FF

ILAN

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
ILAN
Computer Center
Tel Aviv University
Ramat Aviv
ISRAEL

_BSE-_BSm_BSa_BSi_BSl: hank@vm.tau.ac.il

_BSP_BSh_BSo_BSn_BSe: +972 3 5450610 (Avi Cohen)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

ILAN, the Israeli Academic Network, established in 1984, is dedicated to universities and academic, medical, and non-profit research institutes. The network is widely used for scientific, educational, academic, and research purposes: commercial and political use is not allowed, either directly or indirectly.

ILAN has installed six 64kb lines to create a central high-speed backbone between Israel's seven major universities. ILAN has international connections to EARN and Nysernet.

ILAN's former NJE traffic and all EARN/Bitnet network services now run on ILAN's TCP/IP backbone. We plan a 56kb link to Nysernet (the New York State Educational and Research Network), a regional network of NSFNET (the US

National Science Foundation Network). In the interim, ILAN will connect to Nysernet via a 9.6kb IP link.

Our backbone supports "Aleph," a project for the computerization and interconnection of all university library card catalogs, which is near to completion. This system allows students and faculty to search card catalogs at local university libraries as well as libraries located at other universities within Israel. Since this system was developed long before the ILAN project, it was based on DECNET

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protocols, which required us to use a multi-protocol router.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

It is possible for any IP host on the Internet to access ILAN.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

ILAN may only be used for academic and research traffic.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

For more information about ILAN contact:
Avi Cohen
+972 3 5450610
a32@vm.tau.ac.il

Hank Nussbacher
+972 3 5450610
hank@vm.tau.ac.il

FF

ESnet - Energy Services Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NERSC
L-561
Lawrence Livermore Labs
Livermore, Ca. 94550

_BSE_BSm_BSa_BSi_BSl: info@es.net

_BSP_BSh_BSo_BSn_BSe: 1-800-33-ESNET

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

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.

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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.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs:

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.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

For more information contact:

Jim Leighton, 415-422-4025, jfl@es.net, Network Manager
Tony Hain, 415-422-4200, hain@eagle.es.net, Associate Network Manager
Bob Aiken, 415-422-4474, aiken@es.net, Network Information and Services Group

FF

WVNET

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
WVNET
837 Chestnut Ridge Road
Morgantown, WV 26505

_BSE-_BSm_BSa_BSi_BSl: SITEREP@WVNVM.WVNET.EDU

_BSP_BSh_BSo_BSn_BSe: 304-293-5192

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

WVNET, the West Virginia Network for Educational Telecomputing, supplies computing services to West Virginia's higher education institutions. The central site in Morgantown provides telecomputing for users at more than twenty remote sites.

The WVNET communications system is an intrastate network of Ethernet LANs, which support DECnet, LAT, and TCP/IP traffic. Digital T1 and analog telephone circuits connect the central and campus computing facilities.

Operating systems at WVNET include the MVS/XA (running OBS WYLBUR, ADABAS and CICS), VM/XA, and VAX/VMS. The _BSW_BSV_BSN_BSE_BST _BSS_BSo_BSf_BSt_BSw_BSa_BSr_BSe _BSG_BSu_BSi_BSd_BSe, which describes academic and administrative
software on these systems, is available for $5.90 (including

postage).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

WVNET users are connected to the NSFNET backbone via SURAnet. Connectivity is also provided via CREN (BITNET).

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk:

Organizations that are located in West Virginia and involved in education, research, or the economic development of the state can use WVNET. Nonprofit institutions may become

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associates. Examples of unacceptable usage include commercial order-entry and advertising commercial products.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn:

Interim Director: Henry Blosser, U1473@WVNVM.WVNET.EDU
New Accounts: John Fahey, U1440@WVNVM.WVNET.EDU

FF

FidoNet Gateways

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
c/o David Dodell, fidonet.org Administrator
10250 North 92nd Street, Suite 210
Scottsdale, AZ 85258-4599

_BSE_BSm_BSa_BSi_BSl: hostmaster@fidonet.fidonet.org

_BSP_BSh_BSo_BSn_BSe:
FAX: +1 (602) 451-1165
I prefer to communicate about FidoNet by email or FAX.

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

FidoNet allows MS and PC DOS personal computers, linked over dial-up telephone lines, to contact UNIX and UUCP computers via gateways. FidoNet, which was started in 1984, now consists of more than 11,000 computers, or nodes, run by local system administrators.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

FidoNet is fully coupled into the Internet. You do not need to know any specific gateways, just address the message correctly into the fidonet.org domain, and everything will be routed automatically.

FidoNet addresses can be addressed in the basic format of:

FirstName_LastName@pww.fzz.nxx.zyy.fidonet.org

ww= Point Number (This is usually not needed unless specific to a subsystem.)

zz= FidoNet Node

xx= FidoNet Network or Region

yy= FidoNet Zone (Presently only 1 to 5 are valid.)

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Therefore, as an example, user David Dodell resides at FidoNet address 1:114/15. My FidoNet Internet address is:

David_Dodell@f15.n114.z1.fidonet.org

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

No restrictions

FF

CERFNet - California Education and Research Federation Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
CERFnet
c/o San Diego Supercomputer Center
P. O. Box 85608
San Diego, CA 92186-9784

_BSE_BSm_BSa_BSi_BSl: help@cerf.net

_BSP_BSh_BSo_BSn_BSe: (619) 455-3900

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The California Education and Research Federation Network, CERFnet, is a data communications regional network that operates throughout California. The purpose of CERFnet is to advance science and education by assisting the interchange of information among research and educational institutions through high-speed data communications techniques.

CERFnet was launched in the spring of 1989 with a $2.8 million grant from the National Science Foundation. CERFnet links fifty of the leading research and education centers in California at data transfer rates of up to 1.544 megabits per second (T1). The CERFnet backbone nodes are located at UCLA, UC Irvine, SDSC, Caltech, and the UC Office of the

President in Oakland, California. CERFnet membership is open to all organizations in California, including any university, college, industrial or government facility, hospital, or library.

CERFnet offers several different connection options. A CERF 1544 (1.544 Mbps), CERF 56 (56 kbps) or CERF 9.6 (9.6 kbps) entitles the subscriber to a dedicated leased circuit. CERFnet offers DIAL N' CERF, a dial-up SLIP service to the network. DIAL N' CERF subscribers connect to the network by dialing up the nearest backbone node and logging on to a CERFnet terminal server.

_____
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CERFnet also provides twenty-four-hour network surveillance and technical consulting, a telephone hotline ((619) 534-5087), weekly and monthly reports on network activity, a bimonthly newsletter, and CERFnet-sponsored seminars. In addition, CERFnet operates a Network Operations Center, located at the San Diego Supercomputer Center, and a Network Information Center (NIC).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

CERFnet supports the TCP/IP protocol suite. Various documents, including miscellaneous information on CERFnet, are available on the CERFnet NIC. These are available via anonymous ftp to NIC.CERF.NET. There are several subdirectories: cerfnet_news, cerfnet_info, cerfnet_guide, and cerfnet_stats, which contain information such as the CERFnet bimonthly newsletter, acceptable use policy, brochure, and user's guide. (The CERFnet NIC is a UNIX-based workstation.)

_BSW_BSh_BSo _BSc_BSa_BSn _BSu_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Any IP host on the Internet may access CERFnet sites. Use of the network is governed by an acceptable use policy. A copy of this policy is available on request.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For more information please contact:

Karen Armstrong McKelvey

mckelvey@sds.sdsc.edu

FF

SprintMail X.400 Gateway

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Merit Computer Network
1075 Beal Ave.
Ann Arbor, MI 48109-2112

_BSE_BSm_BSa_BSi_BSl: Customer.Service@Sprint.COM

_BSP_BSh_BSo_BSn_BSe: 1-800-336-0437

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Merit staff operates a gateway between the Internet and SprintMail, which allows messages to be exchanged between SprintMail customers and Internet users. The gateway is connected to Sprintnet and to the Internet through Merit's connections to the NSFNET.

SprintMail, operated by Sprint International, is a commercial X.400 electronic mail network providing services to US customers and access to other networks domestically and internationally. Formerly known as Telemail, SprintMail uses the Sprintnet (formerly Telenet) public data network for its e-mail connections.

Merit provides hardware and software maintenance and

administration and network operations (via the Merit Network Operations Center) for the Internet gateway; Sprint provides Sprintnet connectivity and user consulting and registration, as well as gateways to other X.400 networks.

The gateway is a Sun SPARCstation-I running Sun OS 4.0.3 and Sunlink MHS. An X.25 link to Sprintnet is connected to the Sun's serial port at 9600 bps. Protocols used are X.400 Message Handling System, X.225 session layer, X.224 transport class 0, and X.25. On the Internet side, the Simple Mail Transfer Protocol (RFC-822), Transfer Control Protocol, Internet Protocol, and Ethernet protocols are used.

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The gateway supports a directory function that allows SprintMail customers to be registered with a mnemonic name which can be used by Internet users when sending mail. SprintMail users who wish to register can contact Sprint Customer Service.

Merit provides domain name service for the SPRINT.COM domain as well as for some other domains on behalf of some SprintMail customers. For example, the COMPMAIL.COM domain is owned by the IEEE (Institute of Electrical and Electronic Engineering) Computer Society but is operated by Merit as part of the gateway function.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

From the Internet to SprintMail
To use the gateway, an Internet user can specify a registered SprintMail alias name, in the form:

John.Doe@Sprint.COM

Alternatively, the full X.400 Originator/Recipient (OR) name can be specified, (all on one line), for example:

/pn=John.Doe/admd=Telemail/o=Sprintintl/c=us/@Sprint.COM

The Internet host name after the at-sign, @, can be SPRINT.COM or another domain supported by the Merit gateway. X.400 OR names consist of a list of parameters and their values. X.400 parameters in OR names that can be used by the SprintMail gateway include:

ADMD	Administrative Management Domain
PRMD	Private Management Domain
PN	Personal Name
G	Given Name
S	Surname
DD.UN	User Name (DD is "Domain Defined")
O	Organization
C	Country (two-letter abbreviations must be used, for example, US, GB, JP)

From SprintMail to the Internet

When sending mail from the SprintMail X.400 environment to the Internet, the native syntax of the sender's system should be used. Use an "ADMD" of TELEMAIL, "PRMD" of INTERNET and "Country" of US, along with the "RFC-822" "domain

defined" attribute to specify the user's Internet mail address. For example, to send mail from the SprintMail system to an Internet user whose address is jdoe@engin.college.edu, type (all on one line):

(Site:Internet,ID:<jdoe(a)engin.college.edu>)

The angle brackets "< >" are required. The "(a)" replaces the at-sign, @, because that and most other special characters are illegal as specified in RFC 987, which makes it necessary to substitute "(u)" for underscore, _, "(b)" for bang (exclamation point), !, "(q)" for a quotation mark, ", and "(p)" for percent, %.

Resolving Problems

If a message sent across the gateway cannot be delivered, the gateway will send a return message to notify the sender of nondelivery. That notification message will explain the problem with the mail address. If you have further questions, call or send e-mail to Sprint Customer Service.

FF

PSINet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Performance Systems International
11800 Sunrise Valley Drive - Suite 1100
Reston, VA 22091

_BSE_BSm_BSa_BSi_BSl: info@psi.com

_BSP_BSh_BSo_BSn_BSe: 1-800-82PSI82
(703) 620-6651
FAX: (703) 620-4586

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

PSINet is a US-based commercial, national TCP/IP and OSI internetwork available throughout the continental US, Canada and Israel, with a wide spectrum of services for the individual and corporate user of electronic information. PSINet is currently a T1-based network co-located in telephone company facilities; it consists of over two hundred organizational networks. The PSINet operations center, located in Albany, NY, operates twenty-four hours a day, seven days a week. (A regional office is located in Santa Clara, California.) Local phone numbers through PSI's Individual Dialup Service (IDS) provides free telnet/rlogin access to any PSINet dedicated data line (SCS and CCS) customer sites in nearly forty cities throughout the US.

TCP/IP packet access is also provided on a dialup basis using V.32 modems in more than thirty cities. Three times a year a PSINet users group (PSITech) meets to discuss new services, new technologies, and operational requirements.

PSI's PSILink personal Internet access service is provided on a dialup basis in over 170 cities throughout North America, Europe and the Pacific Rim. The service includes electronic mail, USENET News, and anonymous file transfer capability. Free PSILink software for the PC, developed by PSI, is also provided.

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PSINet provides internetworking services to the NYSERNet user community, and also has connections to the NSFNET in Ithaca, NY.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host on the Internet may access PSINet sites.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

There are no restrictions on use of PSINet for any purpose (including commercial) by its customers. As a co-founder of the Commercial Internet Exchange (CIX) with the other unrestricted-usage commercial providers, this important capability is being widely extended throughout the US.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Network software research and development is done within PSI and is exported at no cost or nominal cost to academic, government, and nonprofit organizations. Exported technology includes SNMP, Z39.50, and X.500. PSI provides an entry-level UUCP email service and a White Pages service available over the Internet (see section 4.3 of the Internet Resource Guide). ClariNet News, a live electronic newspaper from ClariNet Communications Corp., is also available to PSI customers through the PSINet system.

FF

MIDnet - A Midwestern Regional Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
MIDnet
501 Building 113.1
Lincoln, Nebraska 68588-0202

_BSE_BSm_BSa_BSi_BSl: nic@westie.mid.net

_BSP_BSh_BSo_BSn_BSe: (402) 472-8971
FAX: (402) 472-8486

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

MIDnet is a Midwest regional research and education data communications network that provides access to the National Science Foundation Network (NSFNET) and to the Internet community. Our purpose is to promote advances in research and education by providing low-cost, reliable, high-speed connectivity to educational institutions, non-profit organzations, and businesses interested in the advancement of research and education.

MIDnet's mission is to give individuals at member sites in the seven state region of Arkansas, Iowa, Kansas, Missouri, Nebraska, Oklahoma, and South Dakota access to a broad range of advanced information resources such as large databases, supercomputers, libraries, data archives, and electronic

mail.

MIDnet is an IP-based network running at speeds from 56 Kbps to T1 (1.544 mps), and currently connects sixty individual sites and two state networks using cisco and Proteon routers.

Major information resources include: the EROS Data Center (Sioux Falls, South Dakota), WUARCHIVE (Washington University in St. Louis), see Section 3-10, National Severe Storms Laboratory (University of Oklahoma), ARCHIE server (University of Nebraska-Lincoln) and on-line library catalogs and

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Campus Wide Information Systems.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

MIDnet is available to any IP host on the Internet.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Any IP host at any member organization may use MIDnet as long as they abide by the MIDnet Acceptable Use Policy (AUP). Any Internet-connected host may access MIDnet members IP hosts under the same usage policy.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Network Operations Center (402) 472-5032 noc@westie.mid.net

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

Further information may be obtained via anonymous FTP from westie.mid.net, directory pub. Included in this information is the MIDnet AUP,membership list, maps, meeting notices and minutes.

FF

SDSCnet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
San Diego Supercomputer Center
PO Box 85608
San Diego, California 92186-9784

_BSE_BSm_BSa_BSi_BSl: Paul Love, loveep@sds.sdsc.edu

_BSP_BSh_BSo_BSn_BSe: (619) 534-5000

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

SDSCnet is a network that links academic, industrial, and government affiliates with the San Diego Supercomputer Center (SDSC) and, by extension, with NSFNET.

Participating organizations may use the network to login remotely to SDSC's supercomputer, parallel machines, and visualization resources; transfer files; send and receive electronic mail; and connect to other resources on NSFNET. Some organizations also receive software support. If an organization's network device(s) support(s) SNMP, the link is monitored for outages 24 hours/day seven days/week.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Connections to SDSCnet are dedicated links primarily at 56

Kbps and T1 speeds using the TCP/IP or DECnet protocols. (OSI protocols will be added when they become available.) Links to BITNET are also available for institutions that wish it and that qualify as members of CREN.

_W_h_o _C_a_n _U_s_e _S_D_S_C_n_e_t

A connection to this network is available to any academic, industrial, or government organization not otherwise connected to NSFNET that seeks such a connection. The cost depends on the preferred speed, network device, protocol of the connection, and the types of services required.

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_M_i_s_c_e_l_l_a_n_e_o_u_s _I_n_f_o_r_m_a_t_i_o_n

See also the description of the San Diego Supercomputer Center when it becomes available, and the description of CERFnet (section 5.34).

FF

CSUNET - California State University Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
California State University, Office of the Chancellor
Information Resources Technology
P.O. Box 3842
Seal Beach, CA 90740-7842

_BSE_BSm_BSa_BSi_BSl: nethelp@csu.net or nethelp@calstate.edu

_BSP_BSh_BSo_BSn_BSe: (213) 985-9445

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

CSUNET (California State University Network) spans the state of California. Its membership consists of the twenty California State University campuses, five California Community Colleges, and the California Department of Education.

CSUNET has four T1 connection points with the Internet, two with BARRNet (Stanford and UC Davis), one with CERFnet (UC Irvine) and one with SDSCnet/CERFnet (SDSC). CSUNET also has X.25 packet connections to SprintNet and 9600-baud X.25 and Telnet dial-up access for limited CSU-sponsored programs. Between the CSU campuses, CSUNET also supports DECnet, Appletalk, and SNA, along with TCP/IP.

In 1988, partial funding was received from the National Sci-

ence Foundation for cisco routers. Today, however, CSUNET is funded entirely by the State of California in support of K-12, community college, and university-level education.

Logical and geographic maps of CSUNET are located in the csunet/maps subdirectory at "nic.csu.net" (130.150.102.20).

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Any IP host of Internet member organizations may access CSUNET.

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_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSR_BSe_BSs_BSo_BSu_BSr_BSc_BSe/_BSR_BSe_BSs_BSt_BSr_BSi_BSc_BSt_BSi_BSo_BSn_BSs

Any of the members may exchange traffic with any other member in the support of research, education, and/or scholarly activity. Any member may use any of the long-haul networks CSUNET connects to, subject only to the restrictions of the owner of the long-haul network.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Chris Taylor, Network Administrator
chris@calstate.edu. (213) 985-9669
Dave Reese, Network Engineering
dave@calstate.edu (714) 773-2159
Laura Guillory, Network User Services
laura@calstate.edu (213) 985-9641
Gary Brooker, Network Operations
gary@calstate.edu (213) 985-9533

FF

WiscNet

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Attn: Michael Dorl
WiscNet
c/o Madison Academic Computing Center
1210 W. Dayton St.
Madison, WI 53706

_BSE_BSm_BSa_BSi_BSl: wn-info@nic.wiscnet.net

_BSP_BSh_BSo_BSn_BSe: (608) 263-4188 (Network Operations Center)

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

WiscNet is a nonprofit association that provides access to national network resources for higher education institutions, mostly in the state of Wisconsin. The primary purpose of WiscNet is to provide access to the Internet. WiscNet provides no direct services to end users, but rather acts as a conduit to the resources of the Internet and makes possible interchange of information using electronic mail and network news.

WiscNet is governed by a board of directors consisting of one member from each charter member institution plus the NSF proposal investigators. The board is reponsible for setting

broad operating policy, establishing direction, establishing membership categories, and assessing membership fees. A Network Planning Committee works with the operating agent on network design issues.

The Madison Academic Computing Center at the UW-Madison provides day-to-day operational support for WiscNet. This includes a Network Operation Center that provides problem reporting and resolution services 24 hour a day, 365 days a year.

WiscNet operates a packet-switched network consisting of routers connected by T1 (1.544 Mbps) and DDS (56 Kbps)

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communications lines. This network is connected to the national network at UW-Madison by two T1 lines.

The network backbone consists of cisco AGS routers located at UW-Eau Claire, UW-Madison, UW-Milwaukee, UW-Oshkosh, and UW-Stevens Point. These backbone routers are redundantly connected by 256-Kbps circuits provided by the State of Wisconsin Department of Administration's Consolidated Data Network (CDN). End node sites are connected to the nearest backbone sites in their LATA by 56-Kbps DDS circuits.

WiscNet is connected to the CICNet (Big Ten universities plus the University of Chicago) regional network at UW-Madison by T1 lines to the University of Minnesota and to Argonne National Laboratory.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

Membership in WiscNet is open to all educational institutions in Wisconsin, as well as to industrial research organizations. Use of the network is governed by the WiscNet Appropriate Use Policy (available upon request).

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

For membership information, contact:

Tad Pinkerton
Office of Information Technology
UW-Madison, WI 53706

(608) 262-8874
tad@macc.wisc.edu or

For technical assistance, contact the WiscNet Network Operations Center:
(608) 263-4188
wn-info@nic.wiscnet.net.

FF

AARNET

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Geoff Huston, Network Technical Manager
AARNet
GPO Box 1142 Canberra ACT 2601 Australia

_BSE_BSm_BSa_BSi_BSl: AARNet@AARNet.edu.au

_BSP_BSh_BSo_BSn_BSe: +61 6 249 3385

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Australian Academic and Research Network (AARNet) is a national network that interconnects the major academic and research facilities within Australia. The network connects all Australian universities, the Commonwealth Scientific and Industrial and Research Organisation (CSIRO), and many other government, commercial, and industrial research facilities in Australia.

Internally the network uses a mix of 2-mbit and 48-kbit leased lines and multi-protocol routers to provide the connection infrastructure.

The network supports national TCP/IP and DECnet Phase IV

services. The TCP/IP network is interconnected to the Internet via a PACCOM link to FIX-West at Mountain View, California. At time of writing this international link uses a 256-kbit satellite circuit.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The network is connected to the Internet.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSR_BSe_BSs_BSo_BSu_BSr_BSc_BSe/_BSR_BSe_BSs_BSt_BSr_BSi_BSc_BSt_BSi_BSo_BSn_BSs

AARNet can be used for academic and reseach purposes, and in servicing the broad requirements of the Australian academic and research sector.

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_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Documents, quarterly reports, usage graphs, and maps of AARNet are available by anonymous ftp from the host AARNet.edu.au.

A resource guide of services and organisations connected to AARNet can be found in the subdirectory /pub/resource-guide.

As well as providing networking services within Australia, AARNet funds a number of developmental programs within the country. These currently include a pilot national X.500 directory service and a national file information/archival service.

In general the Australian hosts on the Internet are grouped under the ".au" domain name.

FF

UNINETT - The Norwegian Academic and Research Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
UNINETT secretariat
SINTEF Delab
N-7034 Trondheim, Norway

_BSE_BSm_BSa_BSi_BSl: sekr@uninett.no
C=no;P=uninett;O=uninett;S=sekr

_BSP_BSh_BSo_BSn_BSe: +47 7 592980
FAX: +47 7 532586

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

UNINETT is the Norwegian academic and research data network. Its purpose is to support research and education and collaborative work in and among academic and non-profit research organizations in Norway by providing access to computer networks and network resources. As the Norwegian branch of the Internet, EARN/BITNET, the European academic DECnet, and OSInet/IXI, UNINETT offers a variety of services connecting the Norwegian academic society to the rest of the academic world.

Electronic mail, file transfer, terminal access, directory services, USENET Network News and the Gopher information service are among the services available on the UNINETT network.

By March 1993, about 170 academic and research organizations are connected to the UNINETT backbone, giving national and international connection to some 19700 IP hosts, a few hundred DECnet hosts and X.400 MTAs, and 3 EARN/BITNET nodes.

UNINETT is a member of NORDUnet, which is a cooperative effort of the academic networks in all of the Nordic countries and is connected internationally through the NORDUnet network.

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The UNINETT activity is funded by The Norwegian Ministry of Education, Research and Church Affairs; the day-to-day work is organized by a secretariat sited at SINTEF Delab, Trondheim.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

UNINETT can be reached from the Internet, DECnet and the IXI and Public X.25 network. UNINETT has mail gateways between OSInet X.400, Internet, UUCP, DECNet and EARN/BITNET mail networks. We also have mail connectivity with the Norwegian PTTs public X.400 network.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSU_BSN_BSI_BSN_BSE_BST_BST

UNINETT is a non-commercial network for academic and research traffic only. However, some 25 commercial (and governmental) organizations have gained access to the network, under restrictions that do not allow them to use the network for commercial purposes.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

The UNINETT newsletter UNINyTT (in Norwegian) is issued quarterly.

UNINETTINFO is the UNINETT information server. This server is reached by:

o+ E-mail to the address: info@uninett.no
Try the command Help first.

o+ Anonymous FTP to aun.uninett.no or 129.241.1.99

o+ Gopher - to gopher.uninett.no, port 8300

All information prepared by UNINETT is in Norwegian.

The central UNINETT Gopher server for Norway is gopher.uninett.no, port 70.

_R_e_f_e_r_e_n_c_e_s

Documents in the UNINETTINFO server - in directory UNINETT.

FF

ARNET - Argentine Science Network

_A_d_d_r_e_s_s:
UNDP Project ARG-86-026
Ministerio de Relaciones Exteriores y Culto
Reconquista 1088 1er. Piso - Informatica
(1003) Capital Federal
Buenos Aires, Argentina
Attention: Jorge Marcelo Amodio (NIC JMA49)

_E_m_a_i_l: noc-arnet@atina.ar
or postmaster@atina.ar

_P_h_o_n_e: (+541) 313-8082
Fax: (+541) 814-4824

_D_e_s_c_r_i_p_t_i_o_n

ARNET, a TCP/IP network connected to the Internet, is the major science and research network of Argentina. It connects approximately three hundred sites, mainly universities and research organizations. ARNET provides electronic mail, USENET News, file server, and electronic mailing list services.

Like other cooperative networks, ARNET has no central plan-

ning or central authority. The current international link and the top-level AR domain are managed by the UNDP (United Nations Development Programme), Project ARG-86-026, at the Ministry of Foreign Affairs (MREC), together with the Secretariat of Science and Technology (SECYT). For the time being, the top-level subdomains are administered by the UNDP/MREC project.

ARNET is a store-and-forward message network based on the Unix communications facilities. The international electronic mail gateway and USENET news backbone, atina.ar, is a '386 machine running Unix System V connected to the MREC Local Area Network. The network is connected to the Internet through a satellite link to SURANet at the University of

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Maryland.

Most ARNET connections are over the public telephone network or the public packet-switching network, ARPAC, using the UUCP protocol in different environments. USENET news and most electronic mail traffic is brought to ARNET from uunet.uu.net via Internet.

Several major nodes, such as secyt.gov.ar (Secretaria de Ciencia y Tecnologia), dcfcen.edu.ar (Departamento de Computacion, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires), and opsarg.org.ar (Organizacion Panamericana de la Salud), call atina.ar over telephone lines, PSN ARPAC, or leased lines to distribute mail and news traffic to other nodes. Many nodes use various implementations of UUCP for MS-DOS with limited functionality.

Future plans

There is a cooperation agreement between the UNDP/MREC project and the SECYT to distribute Internet services. The first stage will be the installation of a couple of Unix boxes at major regional sites, interconnected through the PSN ARPAC and national satellite links using UUCP. The second stage will be the migration from UUCP to TCP/IP. There are under study different ways to distribute Internet services throughout the country, and to upgrade the international link to the Internet.

ARNET's IP number is 140.191. Several bits of the address are reserved for subnetting. The subnet mask is 255.255.254.0.

The current MX-host for the AR domain is uunet.uu.net. Domain Name Service for AR domain is served by NS.UU.NET and UUCP-GW-1.PA.DEC.COM. Most systems on ARNET use the Internet addressing scheme and the UUCP bang notation.

ESC9

Top-level-domain: AR (Argentina)
Internet: user@node.subdomain.ar
UUCP: uunet!atina!node.subdomain.ar!user or uunet!atina!node!user

There are several top-level subdomains. Provincial subdomains are used when sites don't apply for organizational subdomains.

edu.ar	Academic and research institutions
org.ar	Non profit organizations
gov.ar	Government institutions and agencies
com.ar	Commercial organizations
mil.ar	Military institutions
mrec.ar	Ministry of Foreign Affairs Network
ba.ar	Buenos Aires
cb.ar	Cordoba
cc.ar	Chaco
ch.ar	Chubut
cn.ar	Corrientes
ct.ar	Catamarca
er.ar	Entre Rios
fm.ar	Formosa
jy.ar	Jujuy
lp.ar	La Pampa
lr.ar	La Rioja
mn.ar	Misiones
mz.ar	Mendoza
nq.ar	Neuquen
rn.ar	Rio Negro
sa.ar	Salta
sc.ar	Santa Cruz
se.ar	Santiago del Estero
sf.ar	Santa Fe
sj.ar	San Juan
sl.ar	San Luis
tf.ar	Tierra del Fuego
tm.ar	Tucuman

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

ARNET UUCP maps are available from USENET News or uunet.uu.net. The maps are organized by provinces. It will be available for anonymous ftp from "atina.ar" (140.191.2.2).

FF

TANet - The Taiwan Academic Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Computer Center, Ministry of Education
12th Fl, No. 106
Sec. 2, Hoping E. Road
Taipei, Taiwan
Attention: Chen Wen-Sung

_BSE_BSm_BSa_BSi_BSl: zchen@twnmoe10.edu.tw
or zchen@twnmoe10.bitnet

_BSP_BSh_BSo_BSn_BSe: (886) 2-737-7010
FAX: (886) 2-737-7043

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

TANet, the Taiwan Academic Network, is a pilot project undertaken by the Ministry of Education and Universities Computer Center to establish a common national academic network infrastructure. To support research and academic institutions in Taiwan, TANet will provide access to unique resources and opportunities for collaborative work. TANet will be composed of most of the Taiwan Internet community, including industry networks such as SEEDNet (Software Engineering Environment Development Network).

Network Organization:

The management structure of TANet is a two-layer hierarchy. The TANet network service center (TANSC) is to be responsible for the national backbone network and management of international links. Within each regional area, a regional network service center (RNSC) will provide necessary services and support connections to the TANet backbone from the local-area network/campus network of each university/institution. At present, TANSC is run by the Ministry of Education computer center, and each RNSC is run by a major local university.

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Membership:

The following universities/institutions will be connected to TANet initially:

Taipei area:
- Ministry of Education Computer Center (MOECC)
- National Taiwan University (NTU)
- National Cheng-Chi University (NCCU)
- National Taiwan Institute of Technology (NTIT)
- National Taiwan Normal University (NTNU)
- Academic Sinica (SINICA)
- Tam-Kang University (TKU)
- Fu Jen University (FJU)
- Chinese Culture University (PCCU)
- National Taipei College of Technology (TIT)
- Institute for Information Industry (III)

Taoyuan area:
- National Central University (NCU)
- Yuan Ze Institute of Technology (YZIT)
- Telecom Laboratory, Ministry of Communication (MOCTL)

Hsinchu area:
- National Chiao-Tung University (NCTU)
- National Tsing-Hua University (NTHU)
- Industrial Technology Research Institute (ITRI)
- Chung-Hua Polytechnic Institute (CHPI)
- Synchrotron Radiation Research Center (SRRC)

Taichung area:

National Chung-Hsing University (NCHU)
Feng-Chia University (FCU)

Tainan area:
National Cheng-Kung University (NCKU)
National Chung-Cheng University (CCU)

Kaohsiung area:
National Sun-Yat Sen University (NSYSU)
National Kaohsiung Normal University (NKNU)

These bodies are the core membership of TANet. Other university/institutions may apply for membership and be connected to TANet after obtaining their membership application.

Protocols:

The network protocols will initially focus on TCP/IP on the TANet backbone. Regional networks may support multiple pro- tocols and additional facilities (including X.25 transport or dial-up services) on a local basis in accordance with regional requirements. Support for OSI (CLNS) routing will be introduced in the near future. Existing Taiwan BITNET and ifNET (information NETwork) applications (including electronic mail delivery, NetNEWS, and file transfer) will be supported over TANet via IP connections.

Network Topology:

The network implementation uses a ring/mesh topology. It interconnects by intelligent routers and high-speed leased circuits/LANs together.

High-speed T1 (1.544 Mbps) circuits were installed between NSYSU and NTU, MOECC, NCU, NCTU, NTHU, and NCKU. NTU, NTHU, NCHU, and NCKU are now 9.6 kbps for backup purposes (they will be changed to at least 64 kbps in 1992). Dynamic ISDN links are also intended to provide backup services in the event of failure of a primary link. The bandwidth of each local link will depend on its local requirements; global considerations will dictate further moves toward higher bandwidths on the backbone links.

A 64 kbps link is now installed from the Ministry of Education Computer Center to Princeton University, and will be upgarded to 256 kbps before the end of 1992. This link will couple TANet to both JvNCnet and NSFNET..kp

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OARnet - Ohio Academic Resources Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Attn: Alison Brown
OARnet
1224 Kinnear Road
Columbus, Ohio 43212

_BSE_BSm_BSa_BSi_BSl: nic@oar.net

_BSP_BSh_BSo_BSn_BSe: (614) 292-8100

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

OARnet is the regional network for the state of Ohio. It serves the higher education community, providing Ohio scholars access to colleagues worldwide. OARnet also provides commercial connectivity to industrial and commercial members with unrestricted traffic flow between other OARnet members and the Internet. Libraries, databases, national and international laboratories, and research centers are accessible, helping make Ohio schools competitive.

The Ohio Academic Resources Network (OARnet) was established in 1987 to provide statewide access to the Cray supercomputer at the Ohio Supercomputer Center. Since then it has evolved into a network supporting all aspects of higher education in Ohio. A primary goal of OARnet is to facilitate collaborative projects and sharing of resources between institutions, including those outside the state. OARnet

connections are available to Ohio academic institutions and corporations engaged in reseach, product development, or instruction. Colleges, universities, and industries currently use OARnet connections to communicate within the state and with colleagues around the country.

_N_e_t_w_o_r_k _A_c_c_e_s_s

OARnet uses the Internet (TCP/IP) and DECnet protocols over dedicated 56-kbps and T1 (1.544 megabit-per-second) circuits. OARnet participants using TCP/IP protocols are

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connected to the worldwide Internet. OARnet is also connected to NSFNET, the national research and education network sponsored by the National Science Foundation. Internet access is also provided by OARnet with 9.6 and 38.4 kbps dialup connections to OARnet POP (Points-of-Presence) locations throughout Ohio using V.32/V.42 modems.

_W_h_o _C_a_n _U_s_e _t_h_e _N_e_t_w_o_r_k

There are no restrictions.

_M_i_s_c_e_l_l_a_n_e_o_u_s

Network Operations Center (NOC)
Hours: 24x7 coverage

Hotline: (614) 292-5555

Email: noc@oar.net
OARnet User Problems: noc@oar.net
User Information: nic@oar.net
Engineering Staff: engineers@oar.net

See also Section 1.8, Ohio Supercomputer Center.

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MOREnet - the Missouri Research & Education Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Missouri Research & Education Network
200 Heinkel Building
University of Missouri
Columbia, MO 65211

_BSE_BSm_BSa_BSi_BSl: morenic@more.net

_BSP_BSh_BSo_BSn_BSe: (314)-882-2000

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

MOREnet is a state network providing NSFNET communications and services to higher education, primary and secondary education, laboratories, and state agencies in Missouri. MOREnet's primary purpose is to develop, support, maintain, and cultivate applications for electronic interchange in support of its members. The secondary purpose of MOREnet is to foster information exchange and activities which support a broader cooperation among it members. MOREnet obtains its connection to the NSFNET through its membership in MIDNET.

MOREnet is funded by grants from the National Science Foundation and by membership fees. A Board of Directors comprised of representatives from each member has full policy and budgetary authority. Users of the network are represented though several advisory committees.

Currently MOREnet supports IP traffic and is developing statewide AppleTalk and Novell IPX networks.

MOREnet's information bulletin board is accessible at;

umcvmb.missouri.edu (128.206.1.1),
IBM 3270 terminal emulation is required.

login with userid MOREINFO,
no password is required

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NETWORK ACCESS

Any IP host on the internet may access MOREnet.

WHO CAN USE MOREnet

Any individual or organization needing internet access to support their education or research missions may request membership in MOREnet. Acceptable use of the network follows NSF guidelines. The needs of commercial organizations my be reviewed on a case by case basis.

MISSOURI NETWORK ADMINISTRATORS

Director: Bill Mitchell, ccwam@more.net

NOC Manager: Ben Colley, tpmaint@more.net

NIC Manager: Jim Newton, ccjimn@more.net

FF

EMBnet - European Molecular Biology Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
EMBL Data Library
Postfach 10.2209
Meyerhofstr. 1
6900 Heidelberg
Germany

_BSE_BSm_BSa_BSi_BSl: embnet@embl-heidelberg.de

_BSP_BSh_BSo_BSn_BSe: +49 6221 387258
FAX: +49 6221 387519

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

EMBnet is a project to develop the infrastructure for access to biotechnology information services for the research community in Europe. The project includes the formation of a network for access to, and exchange and analysis of, data of importance to molecular biology and biotechnology.

The network is based on nationally-appointed centres in European countries, appropriately staffed and equipped to provide a biocomputing service and to develop network-based services within their country. Additional nodes are involved as hosts of databases or specialised facilities. Current nodes and their contact representatives are listed below.

Initial network activities have centred around daily distribution of nucleotide sequence data from the EMBL Data

Library using Internet, and sometimes DECnet over X.25. National EMBnet nodes therefore maintain remote copies of the EMBL Nucleotide Sequence Database for on-line access of further re-distribution within their country.

One main goal is to develop bioinformatics and its practice in general. Approaches and solutions are discussed among the project members via mailing lists, newsgroups and at annual workshops.

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Other activities and projects include promotion of computer conferencing, remote access to specialised facilities (eg sequence similarity searching on massively parallel computers), a training programme in bioinformatics, evaluation and implementation of Gopher servers, remote sequence database updating mechanisms.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSR_BSe_BSs_BSo_BSu_BSr_BSc_BSe

In most cases the services provided by national nodes of EMBnet are intended for their national research community. In some cases there is a charging system, especially for commercial users. Other entries in the Internet Resource Guide (eg EMBL Data Library) will give more specific details, or contact the resource directly.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

EMBnet received financial support from the EC BRIDGE programme, 1991-94. Major financial support is received by most of the national nodes to establish and run their services.

National EMBnet nodes:

Country	Contact Address
Austria	Vienna Biocenter, University of Vienna, Dr. Bohr-Gasse-3, 1030 Wien Tel: +43 222 79515 Fax: +43 1 7986224 E-mail: A5191DAA@vm.univie.ac.at

Belgium Dept. Mol. Biology, Free University Brussels,
Rue de l'Industrie 24, 1400 Nivelles
Tel: +32 2 6509744 Fax: +32-67-287777
E-mail: rherzog@ulb.ac.be

Denmark BIOBASE, Ole Worms Alle, Bygn. 170,
Aarhus Universitet,
DK-8000 Aarhus
Tel: +45 86202711 Fax: +45 86131160
E-mail: hum@biobase.aau.dk

Finland Centre for Scientific Computing,

Finnish State Computer Centre,
P.O. Box 40, SF-02101 Espoo
Tel: +358 0 4572076 Fax: +358 0 4572302
E-mail: harper@convex.csc.fi

France BISANCE, 45 rue des Saints-Peres,
75270 Paris Cedex 06
Tel: +33 1 429624 Fax: +33 1 42963497
E-mail: bisance@frciti51.bitnet

Germany GENIUS, DKFZ Molekular Biophysik,
Im Neuenheimer Feld 280,
6900 Heidelberg
Tel: +49 6221 422361
E-mail: dok252@cvx12.dkfz-heidelberg.de

Greece Babis Savakis,
Inst. of Molecular Biology and Biotechnology,
P.O. Box 1527, Heraklion 71110 CRETE
Tel: +30 81 212890 Fax: +30 81 231308
Savakis@nefelh.imbb.forth.gr

Israel INN, Biological services,
Weizmann Institute of Science,
Rehovot 76100
Tel: +972 8 342470 Fax: +972 8 344113
E-mail: lsestern@weizmann.weizmann.ac.il

Italy Sergio Gadaleta, Tecnopolis Csata Novus Ortus,

Strada prov. per Casamassima Km 3, 70010 Valenzano (Bari)
Tel: +39 80 8770336 Fax: +39 80 6951868
E-mail: gadaleta@mvx36.csata.it

Netherlands CAOS/CAMM Center,
Faculty of Science, University of Nijmegen,
Toernooiveld, 6525 ED Nijmegen
Tel: +31 80 653386 Fax: +31 80 652977
E-mail: caos@caos.caos.kun.nl

Norway The Norwegian EMBnet node,
The Biotechnology Centre of Oslo,

Gaustadalleen 21, N-0371 Oslo
Tel: +47 2 958766 Fax: +47 2 694130
E-mail: rodrigol@ulrik.uio.no

Spain Jose-Maria Carazo,
Centro Nacional de Biotecnologia, CSIC,
Universidad Autonoma de Madrid, 28049 Madrid
Tel: 34 1 3978430 Fax: 34 1 3974799
E-mail: carazo@cnb.uam.es

Sweden Peter Gad, Computer Dept.,
Biomedical Center, Box 570,
S-751 23 Uppsala
Tel: +46 18 174016 Fax: +46 18 551759
E-mail: gad@perrier.embnet.se

Switzerland Reinhard Doelz,
Biocomputing, Biozentrum der Universitaet,
Klingelbergstrasse 70, CH-4056 Basel
Tel: +41 61 267 2076 Fax: +41 61 261 6760
E-mail: doelz@urz.unibas.ch

UK SEQNET, SERC Daresbury Laboratory, Warrington,
Cheshire WA4 4AD
Tel: +44 925 603351 Fax: +44 925 603100
E-mail: bleasby@daresbury.ac.uk

Other nodes in EMBnet:

EMBL EMBL Data Library, Postfach 10.2209, Meyerhofstr. 1,

6900 Heidelberg, Germany
Tel: +49 6221 387258 Fax: +49 6221 387519
E-mail: Datalib@EMBL-Heidelberg.DE

ICGEB ICGEBnet, ICGEB, Padriciano 99, 34012 Trieste, Italy
Tel: +39 40 3757300 Fax: +39 40 226555
E-mail: simon@icgeb.trieste.it

UK-HGMP HGMP Resource Centre,
Clinical Research Centre, Watford Road,
Harrow, Middlesex, UK

Tel: +44 81 869 3446 Fax: +44 81 869 3807
E-mail: mbishop@crc.ac.uk

MIPS MIPS, MPI f.Biochemie,
Am Klopferspitz 18, 8033 Martinsried,
Germany
Tel: +49 89 8578 2656 Fax: +49 89 8578 2655
E-mail: mewes@vax1.mips.mpg.dbp.de

CEPH/ Genethon Claude Scarpelli, CEPHB/Genethon, 13, place de Rungis,
75013 Paris
Tel: +33 1 4565 1300
E-mail: claude@cephb.fr

FF

HGMP-RC - UK Human Genome Mapping Project Resource Centre

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
UK HGMP Resource Centre
Clinical Research Centre
Watford Road
Harrow MIDDX HA1 3UJ
United Kingdom

_BSE_BSm_BSa_BSi_BSl: c.bates@CRC.AC.UK

_BSP_BSh_BSo_BSn_BSe: + 44 81 3466
FAX: + 44 81 869 3807

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

In 1990, the UK Medical Research Council (MRC) founded, as part of the UK Human Genome Mapping Project, a Resource Centre (HGMP-RC) at the Clinical Research Centre (CRC), Harrow, Middlesex. The objectives of the HGMP-RC computing are to establish and make available databases of genes, genetic markers and map locations, and to develop new computing environments and methods for acquisition and analysis of such data. Computing and networking facilities were developed by the MRC to provide online computing support to the Project.

The facilities are connected to a number of other computing systems in centres of genetics and molecular biology research excellence worldwide through national and international wide area networks (WAN's) including the European Research Backbone Network (EBONE), INTERNET, Public Data Networks (Packet Switching and Telephone) in the UK and overseas, research and academic networks in the UK and over-

seas, European Molecular Biology Network (EMBNet) and others. Direct connectivity to US laboratories was implemented using a high-speed communication link, the UK-US 'fat pipe'.

A great deal of effort has been spent on improving services to the scientific community. Molecular genetics databases, application software and miscellaneous services are

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available on the HGMP computer systems and other systems around the world through the HGMP-RC Menu system using workstations, personal computers or terminals from number of manufacturers, equipped with appropriate networking and graphical facilities and connected to any of the above WAN's.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The HGMP-RC computing facilities can be accessed in two ways:

oBS+ by using the IP (Internet Protocol) service

oBS+ by making an X29 call, using a PAD (packet assembler/disassembler)

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSU_BSK _BSH_BSG_BS
M_BSP-_BSR_BSC _BSF_BSa_BSc_BSi_BSl_BSi_BSt_BSi_BSe_BSs

Registration is open, subject to the rules of HGMP, to any "bona fide" academic who applies, whether based in the UK or elsewhere. To register as a UK HGMP-RC facilities user please contact the address above (email is not used for registration applications).

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

For a detailed description of the system and services available see Rysavy, F.R.,Bishop, M.J. at al., "The UK Human Genome Mapping Project online computing service." "Computer Applications in the Biosciences", Vol.8, no.2. 1992 , Pages 149-154. Several user manuals describing the usage of the HGMP-RC computing facilities have been written and are available to registered users. The user support desk is maintained during working hours, providing practical help with users' problems. A programme of courses aimed at giv-

ing an understanding of what the facilities can provide are run regularly.

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ANS - Advanced Network & Services, Inc.

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Advanced Network & Services, Inc.
100 Clearbrook Road
Elmsford, NY 10523

_BSE_BSm_BSa_BSi_BSl: info@ans.net

_BSP_BSh_BSo_BSn_BSe: (914) 789-5300
FAX: (914) 789-5310

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Advanced Network & Services is a U.S.-based network service provider that offers connections to the Internet at a variety of bandwidth levels, including 56 Kb/s, T1, 10 Mb/s and T3. Currently, ANS has the only nationwide computing network operating at higher than T1 speeds. ANS began by serving only sites sponsored by the National Science Foundation, and the NSFNET remains the largest segment of the ANS network. However, today the company provides enterprise and gateway attachment services to commercial organizations, including other network and information service providers, as well as research and education institutions and government agencies. The fiber optic transmission facilities of the ANS network are provided by interexchange carriers, and the core nodes of the network are co-located at the carrier points of presence (POPs), which are staffed around the clock. The network's operations center is located at Ann Arbor, Michigan, and also provides continuous service.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The ANS network is accessible through direct attachment or through gateways from the National Science Foundation Network, private networks or public regional networks.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSN_BSe_BSt_BSw_BSo_BSr_BSk

All research and education institutions and government

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agencies that have signed the ANS Acceptable Use Policy as part of their contractual agreements with ANS are free to use the company's network to send and receive information related to research and education. Any commercial organization that has signed the ANS CO+RE Acceptable Use Policy and the appropriate agreements for sending and receiving information that is commercial in nature, that is, not related to research and education, may use the ANS network. However, commercial traffic may not be sent through a public regional network unless the network has signed an agreement with ANS CO+RE allowing this type of traffic to be carried across its gateways.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

In addition to providing attachment services and the equipment for these connections, ANS offers security services that limit access between the Internet and private networks, consultation in the integration of high- speed networking into strategic planning, assistance in network engineering and design, and educational seminars in high-speed networking.

FF

AlterNet - Public Service Network

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
UUNET Technologies, Inc.
3110 Fairview Park Drive, Suite 570
Falls Church, VA 22042 USA

_BSE_BSm_BSa_BSi_BSl: alternet-info@uunet.uu.net

_BSP_BSh_BSo_BSn_BSe: (703) 204-8000
(800) 4UUNET3
FAX: (703) 204-8001

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

UUNET's AlterNet service offers a public network service as an attractive option to organizations seeking an Internet connection or an alternative to providing their own private networks, while gaining superior connectivity to their domestic and international sites. AlterNet supports both TCP/IP and OSI connections. AlterNet connections are available at rates ranging from 9.6 kbps to full T-1 speeds at any of our hub locations. The 56k to Anywhere program is available at every Sprint Point of Presence in the continental US (over 300 locations and 24 major cities). Customers also have the option of choosing SLIP or PPP connectivity over V.32 and V.32bis modems via dial-up or dedicated lines.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

AlterNet is on the Internet and directly connects to networks in India, South Africa, Thailand, Russia, Finland and Canada. There are no NSFNET restrictions on the traffic to these and other directly connected networks.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSA_BSl_BSt_BSe_BSr_BSN_BSe_BSt

Email and news access is restricted to AlterNet subscribers and their correspondents.

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_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

1-800-4UUNET3 (488-6383) AlterNet Information

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

Information about AlterNet and its services is available via ftp on the host ftp.uu.net.

/uunet-info/AlterNet.ps	AlterNet Configuration map
/uunet-info/alternet	Details on AlterNet

Chapter 6: Network Information Centers

This chapter lists network information centers (NICs) for various networks and disciplines in the Internet. Note that some NICs offer important services which are listed in other chapters.

Contents

6.1 BITNET Network Information Center [Jul89]

6.2 NIC.DDN.MIL - DDN Network Information Center [Jul92]

6.3 NNSC - NSF Network Service Center [Oct92]

6.4 OCEANIC - Ocean Network Information Center [Jun89]

6.5 SPAN_NIC - SPAN Network Information Center Online Database System [Aug89]

6.6 [Discontinued] CSNET CIC - CREN/CSNET Coordination and Information Center [Jun92]

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BITNET Network Information Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
BITNET Network Information Center
EDUCOM
Suite 600
1112 Sixteenth Street, NW
Washington, DC 20036

_BSE_BSm_BSa_BSi_BSl: BITNET@BITNIC (on BITNET)
BITNET%BITNIC@CUNYVM.CUNY.EDU (on Internet)

_BSP_BSh_BSo_BSn_BSe: (202) 872-4200

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

BITNIC provides and coordinates user support, information, and administrative services for BITNET, including:

- oBS+ BITNEWS, an electronically distributed newsletter.
- oBS+ On-line BITNET documentation accessible via LISTSERV and NETSERV server.
- oBS+ On-line and telephone assistance for campus BITNET support staff and organizations seeking BITNET membership.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs:

Subscribe to BITNEWS by sending a mail message to LISTSERV@BITNIC (on BITNET) with any subject and the text

SUBSCRIBE BITNEWS your-name

in which ``your-name'' is replaced by your name.

Obtain a list of files available from LISTSERV@BITNIC by sending it mail with any subject and the text

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SENDME NETINFO INDEX

Order any file listed by sending mail to LISTSERV@BITNIC with any subject and the text

SENDME filename filetype

using the filename and filetype of the file as shown in NETINFO INDEX.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSB_BSI_BST_BSN_BSE_BST

The BITNIC services are supported by dues from the BITNET member organizations, and their primary purpose is to assist BITNET members. The on-line newsletter and files are, however, available to all who can access BITNET with electronic mail.

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NIC.DDN.MIL - DDN Network Information Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
DDN Network Information Center
Suite 200
14200 Park Meadow Drive
Chantilly, VA 22021

_BSE_BSm_BSa_BSi_BSl: NIC@NIC.DDN.MIL (for general user questions)

_BSP_BSh_BSo_BSn_BSe: 1-800-365-DNIC
(703) 802-4535
FAX: (703) 802-8376

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Network Information Center (NIC) is located in Chantilly, VA, and is managed by Network Solutions of Herndon, VA (as sub-contractors to Government Services, Inc.) The NIC host computer is a SUN 470 which runs the SUN 4.2 operating System. The NICs hostname is NIC.DDN.MIL and its Internet address is 192.112.36.5. The NIC provides general user services via telephone, electronic mail, and U.S. postal mail. The NIC operates a toll free telephone service Monday through Friday from 7AM to 7PM Eastern Standard Time. In addition to the telephone service, the NIC maintains several role mail boxes to answer user questions via E-mail. The telephone numbers and mail boxes are listed below:

Toll-Free: 1-800-365-3642
International: 1-703-802-4535

NIC's Role Mailbox Accounts:

NIC@NIC.DDN.MIL	General user assistance, document requests
REGISTRAR@NIC.DDN.MIL	User registration and whois updates
HOSTMASTER@NIC.DDN.MIL	Host, domain, network changes and updates

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ACTION@NIC.DDN.MIL	NIC Computer Operations
SUGGESTIONS@NIC.DDN.MIL	Comments on NIC Services
SERVICE@NIC.DDN.MIL	Automatic mail service
SCC@NIC.DDN.MIL	General Security related information and support

The NIC works closely with network Host Administrators, Node Site Coordinators, domain administrators, network coordinators, network protocol groups, vendors, contractors, government agencies, and military sponsors to assist new users and potential subscribers in obtaining pertinent network information.

The NIC provides databases and information servers of interest to network users, including the WHOIS "white pages" registry, the NIC/Query browsing system, TACNEWS, and the official DoD Host Name Service. The NIC is the source for official DDN protocol documents (other than the MIL-STDs), as well as other DDN documents, and maintains the RFC (Request for Comments) collection. Many of the online files are available through the NIC's automatic mail service, SERVICE@NIC.DDN.MIL.

The NIC registers hosts and domains, assigns IP network numbers and Autonomous System Numbers, and provides hostname translation tables and domain name system server files to the DDN Internet. The NIC also registers network users and issues MILNET TAC access cards.

ONLINE FILES

The NIC maintains many online files that are available to network subscribers via the file transfer protocol (FTP) or Kermit. These files contain information about protocols, site personnel, hosts, and other subjects relevant to network users. See the file netinfo/00netinfo-index.txt for an index to the files in the netinfo directory. See also the DDN New User Guide or contact the NIC User Assistance ser-

vice for more information. Other publicly accessible directories include PROTOCOLS, RFC, IEN, SCC, and DDN-NEWS. Each of these directories has an index in the format 00directory-index.txt or directory-index.txt in order to allow users to quickly identify the files they need.

REGISTRATION SERVICES

The NIC is responsible for the registration of users, hosts,

domains, IP network numbers, and autonomous systems numbers (ASNs) for organizations connected to the DDN Internet.

To register a new user with the NIC, send a request to registrar@nic.ddn.mil, the NIC's role mailbox for user registrations. The template for user registration data can be found in the online file netinfo/user-template.txt. The NIC registers users from the Military Community, primarily by accepting and processing templates from MILNET host administrators. These requests often involve TAC Access--i.e., dialup access to a MILNET host via a Terminal Access Controller. The NIC issues and distributes TAC Access Cards to users who require the service. In general, the NIC registers users from the Internet community only if they are POCs for a domain or a network.

To include a new host in the DDN Internet Host Table, an administrator must complete the template found in netinfo/ihost-template.txt file and return it to HOSTMASTER@NIC.DDN.MIL. To be included in the Host Table, a host must act as a domain or IN-ADDR server, be a gateway, or be essential for mail routing.

Twice weekly, host information is generated into the DDN Internet Host Table as netinfo/hosts.txt, which is a listing of the hosts, gateways, and networks attached to the Internet and registered with the NIC. From this file, two additional files are generated: hosts.txt.Z, a UNIX compressed version of the hosts.txt file; and mil-hosts.txt, a complete listing of MILNET hosts from the hosts.txt file.

Domains are registered via the domain template found in the NIC online file netinfo/domain-template.txt. New domain information is installed in the seven DNS root servers twice weekly. Information on the root servers is kept in netinfo/root-servers.txt. The domains registered with the NIC are listed in netinfo/domain-info.txt. A listing of the netaddresses of the domain servers for individual top-level domains can be found in netinfo/domains.txt.

To obtain an IP network number assignment, a network POC must complete the template in netinfo/internet-number-template.txt and returns the template to HOSTMASTER. The file netinfo/networks.txt contains a complete list of government-sponsored networks.

Address-to-hostname inverse resolution is accomplished via IN-ADDR domains, which are registered in the domain root

servers via an IN-ADDR template sent to the HOSTMASTER mailbox. This template is located in the file netinfo/inaddr-template.txt.

To obtain an autonomous system numbers (ASNs) assignment, a user must complete the template found in netinfo/asn-template.txt and submit it to HOSTMASTER@NIC.DDN.MIL. Assigned ASNs are listed in netinfo/asn.txt.

POC information on individuals who are not already registered with the NIC is extracted from domain, network, and ASN templates and automatically placed in the WHOIS database.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSR_BSe_BSs_BSo_BSu_BSr_BSc_BSe

Anyone who is connected to the Internet can use the NIC's WHOIS services or obtain its public netinfo files via FTP.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

The NIC maintains various mailing lists. Information can be obtained from its User Assistance personnel as described above.

_BSS_BSu_BSp_BSp_BSl_BSe_BSm_BSe_BSn_BSt_BSa_BSr_BSy _BSD_BSo_BSc_BSu_BSm_BSe_BSn_BSt_BSs _BSo_BSn _BSn_BSn_BSs_BSc._BSn_BSs_BSf._BSn_BSe_BSt

WHAT-THE-NIC-DOES.TXT available in the netinfo directory.

References Available on the Internet:

The NIC has Requests For Comment (RFCs), Internet Engineering Notes (IENs), For Your Information (FYI) documents, and other miscellaneous network resource and reference files available in its netinfo, rfc, and ien directories.

FF

NNSC - NSF Network Service Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
NNSC
Bolt Beranek and Newman Inc.
Systems and Technologies Division
10 Moulton Street, Mail Stop 6/3B
Cambridge, MA 02138

_BSE_BSm_BSa_BSi_BSl: nnsc@nnsc.nsf.net

_BSP_BSh_BSo_BSn_BSe: (617) 873-3400
FAX: (617) 873-5620

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The NSF Network Service Center (NNSC) is sponsored by the National Science Foundation (NSF). The purpose of the NNSC is to collect, maintain and distribute information about NSFNET and provide assistance to NSFNET end-users. The objective of the NNSC project is to make general information and support services available to researchers who are using the NSFNET (or plan to use it) so that they can be more productive.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

The NNSC delivers documents by electronic mail to any user with an e-mail connection to the Internet. Send e-mail to the automatic Info-Server at the address "info-server@nnsc.nsf.net".

If you have a full Internet connection, you can also get our documents through anonymous file transfer (FTP) from nnsc.nsf.net. The NNSC strives to supply its documents by both e-mail and FTP.

NNSC services are geared toward users of NSFNET, however the

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staff will provide assistance, either directly or by referring questions to a more appropriate source for information, to users with general Internet-related questions or problems.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

In addition to publishing the Internet Resource Guide, the NNSC also distributes a hardcopy newsletter, the NSF Network News. For more information, please contact the NNSC.

The on-line e-mail address, nnsc@nnsc.nsf.net, and the telephone Hotline, (617) 873-3400, are both used to answer questions from individual users

FF

OCEANIC - Ocean Network Information Center

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Katherine A. Bouton
University of Delaware
College of Marine Studies
700 Pilottown Rd.
Lewes, DE 19958 USA

_BSE_BSm_BSa_BSi_BSl:
OCEANIC@delocn.udel.edu

_BSP_BSh_BSo_BSn_BSe: (302) 645-4278
FAX: (302) 645-4007

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

OCEANIC, the Ocean Network Information Center primarily supports the World Ocean Circulation Experiment (WOCE) research program. Examples of OCEANIC content are:

- WOCE program information
  - oBS+ summaries of research projects with emphasis on data collection.
  - oBS+ WOCE Field Program plans, resources and maps.
  - oBS+ WOCE administrative information.
- Directories of oceanographic datasets:
  - oBS+ holdings of major data centers.
  - oBS+ directories of datasets of special interest to WOCE.

- A WOCE data-tracking system:

  o+ datasets planned, being collected, being analyzed,

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and in data centers.

- A library of data products.

OCEANIC also includes:

- A searchable directory of oceanographers on Internet, SPAN, Telemail (Omnet and Kosmos), and Bitnet.

- A searchable international oceanographic research ship schedules.

OCEANIC is self-explanatory and menu-driven. Though intended to work with simple terminals, to view graphical material, you must use a terminal-emulation program compatible with the Tektronix 4010 standard.

_N_e_t_w_o_r_k _A_c_c_e_s_s

INTERNET: telnet to host delocn.udel.edu (128.175.24.1) and login with username INFO. No password is required.

SPAN: use SET HOST DELOCN, and login with username INFO. No password is required.

TELEMAIL/ OMNET (Domestic USA): Use command GOTO SONIC.

Users in Alaska should use Telenet/Omnet network address 909014 and follow the instructions above.

INTERNATIONAL DIRECT: The preferred method is via the international packet-switched network address:

311030200612 - if your national system requires a 12-digit address
31103020061200 - if your national system requires a 14-digit address

Some national systems require two zeroes in front of the address. You may need to experiment.

You will connect directly into OCEANIC. No password is required.

INTERNATIONAL TELEMAIL/Omnet: You may connect via Telemail/Omnet at one of these addresses:

311090900003 - if your local network requires a 12-digit address
31109090000300 - if your local network requires a 14-digit address

(NOTE: Users in Canada should use Datapac network address 1311090900014.)

You will get a Telenet "@" prompt after entering this address.

@ MAIL
Username? YOUR USERNAME
Password? YOUR PASSWORD
Once you are signed on to TELEMAIL:
Command? GOTO SONIC

DIRECT DIAL UP: You may access OCEANIC directly using a modem (up to 2400 baud, set at 7,1,N). Dial (302) 645-4204. Login with user name INFO. No password is required.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSO_BSC_BSE_BSA_BSN_BSI_BSC

No restrictions. All oceanographers and meteorologists are welcome.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Telex: 7407728 WDIU UC

System Manager: Walt Dabell
(302) 645-4225
Internet: walt@delocn.udel.edu
Span: DELOCN::WALT

FF

SPAN_NIC - SPAN Network Information Center
Online Database System

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
SPAN Network Information Center
SPAN Operations Center
NASA/Goddard Space Flight Center
Code 630.2
Greenbelt, Maryland 20771

_BSE_BSm_BSa_BSi_BSl: NETMGR@NSSDCA.GSFC.NASA.GOV [Internet]
NSSDCA::NETMGR [SPAN]

_BSP_BSh_BSo_BSn_BSe: 301-286-7251 or FTS 888-7251

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The SPAN NIC supports an interactive database system which can be accessed by logging in to the SPAN NIC host.

The information in the database is grouped into six categories:

(1) SPAN information section: General Information about SPAN, Administration structure of SPAN, History of SPAN

(2) Query SPAN database of NODEs: Complete information about a particular node, Listing of nodes by a particular field, Complete listing of all nodes in the database

(3) INTERmail syntaxes: How to send mail from SPAN to other users on other Networks and vice versa including SPAN to X.25 hosts; SPAN to NASAmail; GSFCmail; TELEmail; OMNET; SPAN to INTERnet (ex. ARPAnet); SPAN to BITnet & EARN; SPAN to NSFnet; SPAN to JANET; SPAN to MFEnet; JUNET; UUCP; ACSnet

(4) Important NEWS briefs: This section changes periodi-

cally to broadcast to the general SPAN public things

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that are happening on SPAN.

(5) Access SPAN Library of Documents: Have document e-mailed to you; Request document be postal mailed to you

(6) How to access other Network Information Centers (NICs)

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

"Host Information

DECnet NODEnumber	NODEname	Internet IP Address	Domain Name
6.132 (6276)	NSSDC	128.183.10.59	NSSDC.GSFC.NASA.GOV
6.133 (6277)	NSSDCA	128.183.10.4	NSSDCA.GSFC.NASA.GOV

ESC8

NSSDC is a VAX 11/780. NSSDCA is a VAX 8650.

To connect to the SPAN NIC via DECNET, type:

SET HOST NSSDCA <CR>

and log in as user SPAN_NIC. You can also set host to NSSDC.

To connect to the SPAN NIC via the Internet, telnet to either system and log in as SPAN_NIC.

Dial-in and Telenet access are also availalble. Contact the SPAN NIC for details.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSS_BSP_BSA_BSN _BSN_BSI_BSC

All services are available to users of SPAN and the DECnet Internet. Users who are part of the Internet are also welcome to use this service.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

For further assistance:

Linda Porter, Acting SPAN Operations Manager - for SPAN policy issues. SSL::PORTERL or PORTERL@SSL.MSFC.NASA.GOV

Pat Sisson, SPAN Security Manager - for security related matters. NSSDCA::SISSON or SISSON@NSSDCA.GSFC.NASA.GOV

Dave Peters, SPAN Internetwork Manager - for interworking issues. NSSDCA::PETERS or PETERS@NSSDCA.GSFC.NASA.GOV

To receive hard copy of SPAN documents. NSSDCA::REQUEST or REQUEST@NSSDCA.GSFC.NASA.GOV

FF

[Discontinued] CSNET CIC - CREN/CSNET Coordination and Information Center

The CSNET CIC - CREN/CSNET Coordination and Information Center) was shut down when CSNET ceased operations in October 1991.

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The CSNET Info-Server has been consolidated with the Info-Server operated by the NSF Network Service Center (NNSC). See Section 6.3.

- oBS+ The Info-Server: info-server@nnsc.nsf.net. This automatic program distributes documents in response to specially formatted messages. The documents are also available to Internet users through standard anonymous FTP login.

For instructions about this and other services, send a message to info-server@nnsc.nsf.net with "HELP" in the body of the message.

Other User Services operated by the CSNET CIC were:

- oBS+ The User Name Server: Discontinued. There are no plan to revive this service.

- oBS+ Fixaddr: This program is a helpful first step in converting mailing lists to to up-to-date domain-style addresses. The NNSC plans restore it if there is sufficient demand.

- oBS+ Nslookup: For hosts that do not have access to domain servers, the nslookup program accepts domain names or IP addresses and sends back a message containing all domain nameserver records (not just the MX ones). This program has been temporarily discontinued, but may be revived in the near future.

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Chapter M: Miscellaneous Resources

This section lists diverse Internet resources which defied better categorization.

Contents

M.1 Linotype Postscript Typesetter [Jun89]

M.2 CIAC - DOE Computer Incident Advisory Capability [Sep92]

M.3 Geographic Name Server [Apr90]

M.4 MOSIS Integrated Circuit Fabrication Service [Jul92]

M.5 NEST - Columbia University's Network Simulation Tool [Sep92]

M.6 PROPHET - NIH Sponsored Software Package for Biomedical Besearchers [Nov89]

M.7 FAST - A Computer Network Broker for Standard Electronic Parts [Jul92]

M.8 VAX Book [Sep92]

M.9 CAOS/CAMM Center - Dutch Expertise Center for Computer Assisted Chemistry [Sep92]

M.10 CancerNet - Mail Server Providing Cancer Information from NCI [Sep92]

FF

Chiron: Linotype Postscript Typesetter

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Chiron Inc.
P.O. Box 609
Cambridge, MA 02238

_BSE-_BSm_BSa_BSi_BSl: joe@wjh12.harvard.edu

_BSP_BSh_BSo_BSn_BSe: (617) 864-7853

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

Chiron Inc. owns a Linotype Linotronic 300P (PostScript L300), and operates primarily from the UNIX environment. The L300 produces typeset hardcopy at standard resolution of 1270 and high resolution of 2540.

Services range from keyboarding manuscripts, interfacing files from various word-processing programs, writing page formatting software (primarily in TROFF), to running users' PostScript files. In addition, TeX output is supported on the L300 with all Computer Modern typefaces and mixed with Adobe typefaces. This service is primarily for the book and journal business, and Chiron prefers jobs exceeding 50 pages.

Prices vary according to the services rendered.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Email to setup or for small jobs, ftp for larger files.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSP_BSr_BSi_BSn_BSt_BSe_BSr

No restrictions. Standardized fee structure for ``hang tape,'' quotes for jobs that include editorial or formatting work.

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FF

CIAC - DOE Computer Incident Advisory Capability

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Computer Incident Advisory Capability
Lawrence Livermore National Laboratory
P.O. Box 808, L-303
Livermore, CA 94550

_BSE_BSm_BSa_BSi_BSl: ciac@llnl.gov

_BSP_BSh_BSo_BSn_BSe: (510) 422-8193 /FTS

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The Computer Incident Advisory Capability (CIAC) of the Department of Energy (DOE) is located at the Lawrence Livermore National Laboratory in Livermore, California. CIAC is the DOE crisis center for the handling of computer related security incidents. CIAC rapidly investigates reports of possible computer system penetrations, computer viruses, and similar problems. Stopgap software solutions are provided in real-time while robust binary and source level patches are developed. CIAC distributes information about computer related threats to sites that may be vulnerable to those specific threats. CIAC also retains systems consultants, applications specialists, and research scientists to assist researchers in the security arena.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

CIAC facilities are accessible via the Internet for electronic mail and file transfer.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe _BSC_BSI_BSA_BSC

CIAC is primarily for the use of the DOE community, but is also available to cooperate as needed, and as available, in major security incidents involving other organizations.

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_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Further information can be obtained at the address above or through the following contacts at CIAC:

Project Leader:
Steve Mick, Lawrence Livermore Nat'l Lab
P.O. Box 808, L-303, Livermore, CA 94550
Phone: (415) 422-8193, Email: smick@llnl.gov

CIAC Team Members (same address as above):

Karyn Pichnarczyk	karynp@llnl.gov
Marvin Christensen	mjchristensen@llnl.gov
Allan Van Lehn	vanlehn3@llnl.gov
Bill Orvis	orvis@llnl.gov
Steve Weeber	weeber@llnl.gov
Rich Feingold	feingoldra@llnl.gov
Cindy Durflinger	durfling@llnl.gov

FF

Geographic Name Server

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
2145 Blaney Drive
Ann Arbor, MI 48103

_BSE-_BSm_BSa_BSi_BSl: libert@eecs.umich.edu

_BSP_BSh_BSo_BSn_BSe: (313) 662-6520

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

As part of a network mapping project, we have implemented a TCP-based geographic name server. In response to queries consisting of a city name and/or ZIP code and an optional state and/or country abbreviation, the server retrieves a variety of data from a database containing information on all US cities (~150,000). Queries containing UNIX ed(1)-style regular expressions are also supported.

The geographic names database contains state, county, latitude and longitude for all US cities. It also contains 1980 census population, elevation, area code, and ZIP code for a large subset of the cities, as well as a small number of international cities. The database contains information about other geographic features such as counties, states, rivers, lakes, summits, etc. in addition to populated places.

The raw data were obtained from the United States Geodetic Survey (USGS) and the US Postal Service. USGS is developing a Geographic Names Information System (GNIS) as the main repository for its ongoing National Gazetteer project.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

Telnet to port 3000 on martini.eecs.umich.edu. The interface is self-explanatory, though not necessarily human-friendly (it is designed for use by programs).

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_W_h_o _C_a_n _U_s_e _t_h_e _S_e_r_v_i_c_e

No restrictions.

_D_i_s_c_l_a_i_m_e_r

Merit Computer, Inc. is not responsible for supporting or maintaining this service or its data.

_F_o_r _A_d_d_i_t_i_o_n_a_l _I_n_f_o_r_m_a_t_i_o_n

The author of this server is Tom Libert (libert@eecs.umich.edu).

FF

MOSIS Integrated Circuit Fabrication Service

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
The Mosis Service
USC/Information Sciences Institute
4676 Admiralty Way
Marina del Rey, CA 90292-6695

_BSE-_BSm_BSa_BSi_BSl: MOSIS@MOSIS.EDU

_BSP_BSh_BSo_BSn_BSe: (310) 822-1511, Extension 172 or 117
FAX: (310) 823-5624

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The MOSIS Service is a low-cost prototyping service for custom and semi-custom VLSI circuit development. MOSIS provides fast-turnaround fabrication of integrated circuits by subcontracting with major mask, fabrication and assembly vendors. MOSIS runs can support projects designed using the set of generic MOSIS design rules, the wafer fabricator's design rules or the DoD's. MOSIS-compatible standard cell libraries have been loaded onto Cascade, Cadence, Dazix, Mentor, Synopsys and Viewlogic. A wider range of layout tools can be used to generate full custom designs. Designs are typically sent to MOSIS through the Internet in CIF format or on tape in Calma GDSII or MEBES format and parts are shipped to designers via Federal Express. To obtain E-Mail information about MOSIS send a message to MOSIS@MOSIS.EDU in one of the following formats. Take care not to include extra colons in your message or MOSIS will not be able to parse it.

To get general information about MOSIS:

```
REQUEST: INFORMATION
TOPIC: TOPICS
REQUEST: END
```

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To get MOSIS prices and fab schedule:

```
REQUEST: INFORMATION
TOPIC: PRICE_SCHED,SCHED
REQUEST: END
```

To get a MOSIS User Manual:

```
REQUEST: INFORMATION
TOPIC: USER_MANUAL, MANUAL_UPDATES
REQUEST: END
```

To get response from MOSIS staff member:

```
REQUEST: ATTENTION
(your message here)
REQUEST: END
```

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

MOSIS can be reached via E-mail at mosis@mosis.edu.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSM_BSO_BSS_BSI_BSS

MOSIS customers must either provided a purchase order to cover costs or be sponsored by DARPA or NSF. Funding is also available to universities teaching VLSI design classes. For details contact the MOSIS Service at <MOSIS@MOSIS.EDU> or Fax (310) 823-6714.

FF

NEST - Columbia University's Network Simulation Tool

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Alexander Dupuy
450 Computer Science
Columbia University
New York, NY 10027

_BSE-_BSm_BSa_BSi_BSl: nest-request@cs.columbia.edu

_BSP_BSh_BSo_BSn_BSe: (212) 939-7000
FAX: (212) 666-0140

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The NEST simulation package developed at Columbia is an environment for rapid prototyping and simulation of distributed networked systems. NEST users can develop and test distributed systems and protocols (from crude models to actual system code) within simulated network scenarios.

NEST is organized as a simulation server, responsible for execution of complex simulation scenarios, and a separate graphical interface for simulation control. The client/server model permits distribution of NEST over a network environment. Thus, complex simulations may be migrated to powerful remote computational servers. Alternatively, complex studies/development efforts by multiple teams may utilize a shared multi-site simulation/integration testbed.

Simulation servers are created using the NEST library, a C-language library which runs under most Unix variants, and on POWER (IBM RS/6000), SPARC, MIPS, 680x0 and VAX architectures. The NEST library provides a simple, high-level message-passing facility among a set of concurrent light-weight processes which simulate a distributed system.

The interface provided by the NEST library allows users to link in their own C code and run it on one or more nodes in a simulated distributed environment. NEST provides the

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following operations in this environment:

- send messages to neighboring nodes
- receive messages (optionally, with timestamps)
- check for available messages
- control passage of simulation time

The user can also provide C code which simulates the behavior of a channel, and associate it with one or more communications channels. More than one function can be associated with a channel, and the following operations are provided:

- alter contents of messages
- control transmission delay of messages
- drop messages (cause them to not be received)

Finally, a monitor function can be provided by the user, which runs periodically in the simulation, and can perform modifications to the network scenario as noted below in the description of the NEST generic monitor. In addition, the functionality provided by most available Unix libraries is accessible within a simulation server.

Users interact with NEST through the NEST generic monitor, an X-based graphical interface supporting editing and modification of simulation scenarios as well as dynamic reconfiguration of a simulation during execution. Thus, it is possible to study the dynamic response of a distributed system to failures, burst-loads or other complex dynamical changes.

The nest monitor provides the following operations for manipulation of the network simulation scenario:

- create and delete nodes

- create and delete links

- start and stop functions running on nodes

- change the function associated with a node

- change the list of channel functions associated with an edge

- change the weight parameter associated with an edge

- change the monitor function which runs periodically

- show the current status of a node in the simulation

NEST includes documentation and complete C source code for both the NEST library and the NEST generic monitor. The NEST library will run under most Unix variants, including AIX, SunOS, Ultrix, 4.x BSD, and System V. The NEST generic monitor is an X application which uses the XView library. The currently released version of NEST is version 2.6.

How to Get NEST Software

NEST documentation and full source is available via anonymous FTP from cs.columbia.edu [128.59.16.20] in the nest directory. Some files are stored as compressed tar archives - be sure to remember to use binary mode when transferring them!

There are several files in the ~ftp/nest directory:

nest-2.6.tar.Z	Source for Nest 2.6 library & UI display
nest-2.6-patch.*	Patches to Nest 2.6 library - please apply all
nest-25-doc.tar.Z	Lineprinter formatted documentation
nest-25-doc2.tar.Z	Scribe and PostScript formatted docs

Software Usage and Distribution Agreement

The NEST software is distributed under this arrangement for research and evaluation purposes only. Any redistribution or commercial use of the software itself in any form is prohibited without further licensing from Columbia University.

FF

PROPHET

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
BBN Systems and Technologies Corporation
10 Moulton St.
Cambridge, MA 02138
ATTN: K. McCarthy, MS 6/4C

_BSE-_BSm_BSa_BSi_BSl: prophet-help@bbn.com

_BSP_BSh_BSo_BSn_BSe: (617) 873-2669

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

PROPHET is an NIH sponsored graphics-oriented software package designed to give biomedical researchers a wide range of computing capabilities which can increase productivity and expand computational options. Tools for data management, analysis, and scientific visualization include: comprehensive capabilities in statistics and mathematical modeling, molecular modeling and display, nucleic acid and protein sequence manipulation, and a high level programming language. Some of the other services PROPHET offers are: access to databases of biomedical interest, such as the Protein Data Bank from Brookhaven National Laboratory, GenBank, the Cambridge Crystallographic Database, and the PIR protein sequence database, user support via electronic mail, a telephone hotline, an online help system, an electronic newsletter, and an organized user group, extensive documentation, and numerous research application-specific programs. Software created by biomedical investigators, such as MBIR, and commercial software, such as SAS, can be utilized within PROPHET. Users are also connected via the Internet to a broad community of life science researchers. Capabilities exist for establishing both moderated and unmoderated bulletin boards in various scientific domains of interest. PROPHET's open architecture design and advanced software engineering results in a highly portable and well supported package. The Biomedical Research Technology Program of NIH's Division of Research Resources provides PROPHET at low

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cost to ensure that easy availability and wide distribution will foster use of distributed network workstations in research and lead to increased productivity.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSa_BSc_BSc_BSe_BSs_BSs

PROPHET is on the Internet. The databases can also be reached via the Internet or direct-dial telephone links.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSP_BSR_BSO_BSP_BSH_BSE_BST

NIH grantees and their co-workers

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs _BSI_BSn_BSf_BSo_BSr_BSm_BSa_BSt_BSi_BSo_BSn

Further information may also be obtained by calling or writing:

Dr. Richard DuBois, Biomedical Research Technology Program, Division of Research Resources, Westwood Bldg., Rm. 8A-15, National Institutes of Health, 5333 Westbard Ave, Bethesda, MD 20892. (301) 496-5411 or rbe@nihcu.bitnet

_BSo_BSr

Dr. Howard Bilofsky, Intelligent Systems Research and Development Department, BBN Systems and Technologies Corporation, 10 Moulton St, Cambridge MA 02138. (617) 873-3553 or bilofsky@bbn.com

FF

FAST - A Computer Network Broker for Standard Electronic Parts

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
The FAST Project - USC/ISI
P.O. Box 10907
Marina del Rey, CA 90295-8831

_BSE-_BSm_BSa_BSi_BSl: FAST@ISI.EDU

_BSP_BSh_BSo_BSn_BSe: (310) 822-1511
FAX: (310) 823-1482

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

FAST is a prototype, automated broker for standard, off-the-shelf items. Electronic and optical parts and components and laboratory and test equipment are readily purchased through the FAST service.

FAST is ONEstop shopping. It is a complete value-added service that handles quoting, ordering, expediting and returns. One purchase order with FAST allows customers to acquire items easily and quickly from a very large vendor base.

The FAST broker currently serves more than 100 university, commercial and government customers. As of June 1992, it had acquired items from over 1,500 suppliers.

FAST's customers request quotes and place orders from FAST via EDI (Electronic Data Interchange - standard email or EDI X12). FAST sources (often in a fully automated fashion) incoming rfqs and redistributes them to vendors who carry the requested items.

FAST communicates with its vendors using EDI (standard email or EDI X12) or fax. All vendor responses are collected by FAST and sent back to the customers via EDI. The customers pick the best quote/item and place the order from FAST via EDI. FAST sends EDI orders for the items to the vendors. The vendors invoice FAST and customers reimburse FAST.

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FAST also offers a one-step quote-and-order option, where the customer specifies what selection criteria FAST should use when evaluating incoming vendor quotes. The "best" quote is then automatically turned into an order by FAST.

Customers are charged an 8% service fee (8% of the cost of the merchandise acquired through FAST) for the service.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

FAST can be accessed via email over the Internet (FAST@ISI.EDU) or via EDI X12 over any commercial VAN (Value Added Network).

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSF_BSA_BSS_BST

The service is open to anybody who can establish a blanket purchase order with FAST. Under certain circumstances FAST requires the blanket purchase order to be accompanied by prepayment. Please send a message to FAST@ISI.EDU containing the lines

```
REQUEST: INFORMATION
TOPIC: INTRODUCTION
REQUEST: END
```

for further information about how to use the service and on how to establish a FAST account.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

For further information about FAST, please contact:

Anna-Lena Neches or Robert Wormuth
The FAST Project - USC/ISI
P.O. Box 10907
Marina del Rey, CA 90292-8831

Phone: (310) 822-1511
Email: FAST@ISI.EDU, ALNeches@ISI.EDU, Wormuth@ISI.EDU

FF

VAX Book

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
Joseph E. St. Sauver
Assistant Director, Academic User Services
235 Computing Center
University of Oregon
Eugene, OR 97403

_BSE-_BSm_BSa_BSi_BSl: JOE@OREGON.UOREGON.EDU or JOE@OREGON

_BSP_BSh_BSo_BSn_BSe: (503) (503) 346-1720
FAX: (503) 346-4397

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The 326-page "VAX Book" attempts to answer most of the questions that University of Oregon users have had about using VMS, EDT, the networks, statistics and graphics packages, etc. Most of the concepts presented are illustrated by means of annotated examples. A detailed table of contents and index are included.

The book is available in either Digital Standard Runoff output format suitable for printing on a line printer, or in PostScript form suitable for printing on an Apple LaserWriter or other 300 DPI PostScript printer. I am also making the raw .RNO files (and the code used to convert the guide into TeX) available for those of you who are interested in customizing the "VAX Book" for your own site.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

To get a free PostScript copy of the "VAX Book" via anonymous FTP, try:

```
$ FTP DECOY.UOREGON.EDU   (DECOY.UOREGON.EDU=128.223.32.19)
Name: anonymous           Login as "anonymous."
Password: blah            Use whatever you want for a password.
*cd pub/vaxbook           Change to the pub/vaxbook directory.
```

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dance with the copyright notice appearing at the front of this guide.


```
*dir                    Look at the directory (if you want to).
*get README             Check out the README file for help.
*binary                 Switch to binary mode.
*get vms.ps             Get the postscript version of the book.
*get errata.ps          Get errata pages for "VAX Book."
*quit
```

Note that your FTP commands might be somewhat different from those shown.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BSt_BSh_BSe "_BSV_BSA_BSX _BSB_BSo_BSo_BSk"

Anyone on the Internet may access the "VAX Book."

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

If you like the "VAX Book," have any suggestions for additions, or catch any errors, please drop a note to Joe St Sauver at the above address. Eventually there may be a revision and comments are always helpful.

FF

CAOS/CAMM Center - Dutch Expertise Center
for Computer Assisted Chemistry

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
CAOS/CAMM Center
Faculty of Science
University of Nijmegen
Toernooiveld
6525 ED NIJMEGEN, The Netherlands

_BSE_BSm_BSa_BSi_BSl: post@caos.caos.kun.nl

_BSP_BSh_BSo_BSn_BSe: +31 80 653386
FAX: +31 80 652977

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

The CAOS/CAMM Center is the Dutch National Expertise center for Computer Assisted Chemistry, funded by the Dutch National Science Foundation NWO. It is an Academic Institution and it offers chemists an elaborate package of software tools, for remote use on a "central" computer system.

The emphasis is on easy accessibility, achieved by the application of menu controlled front-ends and interfaces and on integration of the various tools and data bases. An example of the latter is the interconversion of molecular structure files between structural databases, modeling software and computational chemistry programs. All available tools are presented to the user in a hierarchy of simple menus, where the tools are arranged according to their application. The Center supports its users through a combination of online Help facilities, practical courses and the (re)production of manuals. E-mail facilities, NEWS and Conferencing systems are used to improve the exchange of information and experience among the users, including the Center's picstaff.

All tools and programs are arranged in packages, covering four major chemical areas:

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A: CAOS (Computer Assisted Organic Synthesis)
Available tools are Reaction Retrieval Systems and Fine directories and Synthesis Planning programs.

B: CAMM (Computer Assisted Molecular Modeling)
Available tools are 3-D Structural data bases and a variety of modeling programs.

C: CompChem (Computational Chemistry)
Available tools are Advanced modeling programs, visualization tools, the quantum chemistry literature database and computational tools for both Molecular Mechanics/Dynamics and Quantum Chemical calculations.

D: Area CAMMSA (Computer Assisted Macromolecular Sequence Analysis; BioInformatics)
Available tools are all major nucleic acid and protein sequence data bases and programs for data base query and retrieval, homology searching, protein analysis, nucleic acid analysis, alignment and phylogeny construction.

Expert help is available on each of the systems supported by the Center. All data bases supported by the Center are updated on a daily, weekly, monthly or quarterly basis, dependent on the rate with which new material is being produced and available. User interaction with the tools supplied is fully structure oriented whenever applicable, i.e. most input is by means of structural formulas to be drawn on the screen and output is structure oriented where appropriate.

It is the Center's policy to provide users with all documentation that is available with a program or data base, and to complement this information with on-line Help, with extra manual and "introductions" where necessary and with document files in a central document directory from which all material can be down loaded.

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Access to the Center is possible in many different ways. The route to be chosen will depend on a user's local situation. Many routes connect to the Center's terminal servers which will distribute incoming calls over the available resources.

1. DECnet. Only possible if you are setting up the connection from a local VAX in The Netherlands.

Use the command SET HOST CAOS

2. TCP/IP Available if your local machine has access to Internet. (In principle world wide).

   Use the command TELNET
   caos1.caos.kun.nl(131.174.82.227) or
   caos2.caos.kun.nl(131.174.82.228)

3. X.25 In principal available world wide when you have access to an X.25 packet switching network.

   "Dial" number (0)204 18802008099 or if you are in Europe and have access to the IXI backbone (0)204 3044008699. This connection is slower than routes 1 and 2 because they use a 9.6 kb PAD. On response from the PAD answer with a <return> to connect to a terminal server which will prompt with <Local>. Type C(onnect) CAOS in response to be connected to one of the Center's nodes.

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Use of the Center's resources is open for all chemists employed by Dutch Chemical Research institutions, and as far as the Center's resources allow, for users outside Holland. Currently sufficient resources available.

Access is only possible at a subscription basis. Requests for a Userid and a Password should be mailed to the above e-mail address.

A subscription includes:

- a maximum of 2 simultaneous interactive processes
- free use of all CAOS/CAMM utilities for e-mail, NEWS bulletin boards, downloading, plotting, etc.
- 10 MB free disk space (additional space will cost Hfl. 500,- per 5 MB/year).
- NO additional charges (i.e. free CPU use etc.)

Current subscription rates are:

Hfl. 1500/year for each of the packages A,B and C mentioned above.
Hfl. 2250/year for package D.

A reduction is applied for combinations of packages;
Hfl. 2625/year for any two packages and Hfl. 3000 for more than 2.

For accounts opened after July 1st., the charge will be 50% of the yearly fee.

Subscriptions are automatically renewed for another year, unless the Center receives written (e-mail) notice of cancellation before November 1st.

All prices quoted above refer to Academic accounts in The Netherlands. Not-for-profit organizations pay a surcharge of 25%, as do Academic Institutions abroad. For commercial companies, individual licenses have to be negotiated on the basis of each software tool requested.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

Short (1 week) trial accounts may be granted on request, at the Center's discretion. E-mail requests to the address above.

_BSR_BSe_BSf_BSe_BSr_BSe_BSn_BSc_BSe_BSs

GOPHER access to Service description at
camms1.caos.kun.nl(131.174.82.237)

FF

CancerNet - Mail Server Providing Cancer Information from NCI

_BSA_BSd_BSd_BSr_BSe_BSs_BSs:
International Cancer Information Center
National Cancer Institute
Building 82, Room 123
Bethesda, Maryland 20892

_BSE_BSm_BSa_BSi_BSl: icic@icicb.nci.nih.gov

_BSP_BSh_BSo_BSn_BSe: (301) 496-8880
FAX: (301) 480-8105

_BSD_BSe_BSs_BSc_BSr_BSi_BSp_BSt_BSi_BSo_BSn

CancerNet is a quick and easy way to obtain, through electronic mail, information from the National Cancer Institute's Physician Data Query (PDQ) database. CancerNet also has information about PDQ, PDQ distributors, and other products and services of the NCI, including a list of patient publications available from the Office of Cancer Communications.

CancerNet includes state-of-the-art summaries on prognosis, staging, histology, and treatment of more than 75 types and sites of cancer. For each cancer diagnosis, there are two different statements available, a technical summary geared to the needs of the health care professional, which includes references to published literature; and a patient information statement which is written in easy-to-understand language. Screening guidelines and supportive care statements on the management of side effects of cancer and its treatment are also available. The information is updated monthly. CancerNet is a trademark of the National Cancer Institute.

_BSN_BSe_BSt_BSw_BSo_BSr_BSk _BSA_BSc_BSc_BSe_BSs_BSs

Send a mail message to cancernet@icicb.nci.nih.gov. Leave the subject line blank. In the body of the mail message, enter "help" to receive the instructions and most current

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contents list.

_BSW_BSh_BSo _BSC_BSa_BSn _BSU_BSs_BSe _BST_BSh_BSe _BSC_BSa_BSn_BSc_BSe_BSr_BSN_BSe_BSt

The information is intended for use by the health care professionals involved in cancer care to make them aware of current cancer information. Current PDQ/CancerNet users include physicians and other health professionals, basic and clinical researchers, policy-makers, health and science reporters, and the general public.

_BSM_BSi_BSs_BSc_BSe_BSl_BSl_BSa_BSn_BSe_BSo_BSu_BSs

The entire PDQ database contains the information in CancerNet, in addition to summaries of cancer clinical trials currently accruing patients and directories of physicians and organizations that treat cancer. The database is available through various commercial and nonprofit database distributors. See the CancerNet Contents List for information on NCI database availability.

The CancerFax service from NCI provides the same information as CancerNet. Call 1-301-402-5874 from your fax machine and follow the prompts to request a CancerFax contents list with appropriate code numbers. CancerFax is a trademark of the National Cancer Institute.