

## Phone Numbers

### Systems Status Hotlines

NERDC ..... (352) 392-6775

### Consultants

UF Computing Help Desk ..... (352) 392-HELP

NERDC Support Desk ..... (352) 392-2061

UNF Help Desk ..... (904) 620-3898

### Numerically Intensive Computing: The Research Computing Initiative

NERDC offers free computing time to faculty members of Florida public universities to develop programs that use the high-performance features of the RS/6000 SP. A faculty Research Computing Initiative Allocation Committee receives and evaluates proposals for computing support. NERDC supports numerically intensive computing with periodic workshops, aid in converting programs to use parallel processing, advice on the design of new NIC software, and more. To request additional information, send e-mail to [rcichair@lists.ufl.edu](mailto:rcichair@lists.ufl.edu).

### LUIS

LUIS (Library User Information Service) is the online card catalog of the libraries of Florida's public universities. There are LUIS catalogs for each state university library. The state legislature has funded LUIS through the Florida Center for Library Automation (FCLA). You can access LUIS at <http://webluis.fcla.edu>.

### NERDC Staff and Services

(352) 392-2061, SUNCOM 622-2061

- **Accounting Services** staff establish computing accounts for university computing support organizations, which distribute userids to their NERDC users.
- **NERDC Administration** can assist you with questions relating to NERDC policies, procedures, or personnel.
- **Information Services** staff are available to help you with documentation, training, and consulting (during regular business hours).
- **Operations** monitors all central-site facilities, including the UF Intranet and Internet connection, helps you retrieve output, and assists you with tapes. They are available 24-hours/day, 365-days/year to monitor NERDC's systems and network performance, and respond to system problems. They may be reached "after hours" at 352-392-2291.
- **Systems Support Services** staff install and maintain the operating system and support software. They also administer a bulk data transfer service.
- **Network Services** staff install and maintain telecommunications hardware and software. Network Services staff are on call at all times (352-392-2061) to maintain the UF Intranet, and NERDC's and UF's Internet connection.

### Additional Information

More information is available through our newsletter, *Update*; annual *Guidebook*; online documentation; and NERDC Information Services.

NERDC documents are also available at

<http://www.nerdc.ufl.edu>

The *NERDC Guidebook* is available in an Adobe Acrobat Portable Document Format (PDF) at

<http://www.nerdc.ufl.edu/info-services/guidebook.pdf>

# NERDC

## An Overview of the Northeast Regional Data Center

The Northeast Regional Data Center (NERDC) is an advanced computing facility offering a wide range of services on a large-scale processor complex, including:

- network access
- programming languages
- applications and utilities
- data storage, transfer and conversion
- parallel processing capabilities

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**University of Florida**  
**PO Box 112050**  
**112 SSRB**  
**Gainesville, Florida 32611-2050**  
**(352) 392-2061**  
**SUNCOM 622-2061**  
<http://www.nerdc.ufl.edu>

# NERDC Facts

## What is NERDC?

The University of Florida (UF) is the host campus for the Northeast Regional Data Center (NERDC). NERDC's facilities are used for instructional, administrative, and research computing for UF, UNF, and for other state educational institutions and agencies in northern Florida.

## User Support

User support is provided by several agencies, each assisting a specific user community. The organizations directly responsible for supporting computing activities at UF are:

- Center for Instructional and Research Computing Activities (CIRCA)
- Center for Instructional Technology and Training
- UF Information Systems
- Shands Healthcare, Data Processing Division
- J. Hillis Miller Health Science Center
- Institute of Food and Agricultural Sciences (IFAS)
- At UNF, UNF Computing Services

## Network Access

### Networks available via NERDC include:

- the Internet, which includes UF's Intranet
- the Florida Information Resource Network (FIRN), a Florida Department of Education network
- Internet2

# Computing Facilities

## Hardware

For more information about any NERDC system, please see the NERDC systems home page at <http://www.nerdc.ufl.edu/subpages/homepages.html>.

**NERDC facilities** include:

- an **IBM 9672-R46** four-way processor with 6 Gigabytes of system memory.  
**Operating system** is z/OS with JES2.
- an **IBM RS/6000 SP** running AIX/6000.
- **Magnetic storage devices** connected to the central processors include:
  - IBM 3494 Automated Tape Library with 3590 tape drives
  - IBM 3995 Optical Library Data Server
  - IBM 3480 cartridge tape drives and IBM 3422 9-track reel tape drives.
  - (11) IBM 7133 SSA Disk Subsystems for AIX, providing a total of 1965 GB of storage capacity.
  - IBM 2105 "Shark" DASD Subsystem for z/OS, providing 2304 GB of storage capacity.
- **Network services** are supported by Cisco access servers, providing SLIP/PPP access to the Internet, and dial-up services for ASCII workstations to emulate full-screen, 3270-type terminals.

## Input and output

NERDC provides input and output facilities in the form of magnetic tapes and disks; impact and laser printers; graphics; and computer output microfiche (COM).

- IBM 6262 high-speed printers and IBM 3130 laser printers provide **printed and graphical output**.

- **Graphics output** is also available through a 42" HP DesignJet 5000 PS level 3 color printer.
- NERDC supports **job submission and retrieval** and **interactive processing** through several thousand terminals and microcomputers that emulate terminals. These workstations can access NERDC's **time-sharing systems** (TSO, AIX, and CICS) for tasks such as editing, interactive program execution, and batch job submission.

## Software

The major **production languages** include IBM High Level Assembler, C, COBOL, VS Fortran, and PL/I.

- IBM's DB2 is NERDC's primary **database management** system.
- **File management** systems and report generators include VisionBuilder (formerly known as MARK IV).
- TPX allows multiple **concurrent interactive sessions** from a single workstation.

Other **primary software** includes:

- **statistical packages** (MATLAB, SAS, and SPSS)
- **text-formatting programs** (TeX and GML DCF (SCRIPT/VS), both with spell-checking and formula-formatting capabilities)
- libraries of **scientific and mathematical routines** (ESSL, MATLAB, and IMSL)
- **graphics programs** (SAS/GRAPH and GDDM)
- mini- and microcomputer support via **file-transfer capabilities**
- local and IBM **utilities**