

Department Resources - Instruments-Shops-Stockroom: Computer and Network Services

COMPUTER SERVICES

Department computer facilities include the following:

- A cluster of 41 IBM RS/6000s is located in Bagley 29 (restricted use)
- A teaching lab with 12 Windows NT workstations and two Silicon Graphics workstations is in Bagley 48.
- The Chemistry Study Center (Bagley 330) contains 27 Windows NT workstations and 3 Apple Power Mac G3 computers available for general student use.
- The department has a large number of Apple Macintosh computers (approximately 180) and Windows based (approximately 200) computers used in labs and offices.

If you have questions about departmental computing, contact Computer Support, Bagley 363, 3-1699.

- A. COMMUNICATIONS: The LAN is the primary computer communications medium used within Chemistry. It consists of Ethernet hardware that interconnects the department's computers. The department LAN is connected to the campus LAN, which in turn is connected to all the major networks around the country via the Internet. Within Chemistry, the LAN protocols used are TCP/IP, AppleTalk, DECNET, and Microsoft LAN Manager. The campus backbone supports only TCP/IP.
- B. COMPUTER PERIPHERALS: Within Chemistry there are a variety of tape/backup peripherals to handle most common data backup and transfer needs. The IBM RS/6000 cluster has two 8mm (a 20 and 5 gigabyte) tape drives. The Windows NT workstations each have a ZIP drive or 4-gig Travan tape drive. Other computer systems within the department have 4mm, 8mm, and Travan drives.
- Chemistry has two general access postscript laser printers connected to the department LAN. These printers can be directly accessed from Macintosh or Microsoft Window computers that are connected to the LAN. Other computers connected to the department's LAN can print to these printers using the "lpr" protocol (see John Peterson for more information).
- C. COMPUTER SOFTWARE: Fortran and C are the most common programming languages used in the department. Microsoft Word, ChemDraw and Mathtype are the primary word processing software packages. Microsoft Excel is used for spreadsheet and low-level graphics applications. Other software packages, such as Mathematica (symbolic manipulation and graphics), Maple (symbolic manipulation and graphics), Spartan (molecular modeling), Biosym (molecular modeling), and Matlab (matrix manipulation) are used on specific Windows NT and UNIX workstations within the department.
- D. E-MAIL: Electronic mail is used extensively. Eudora, a Macintosh/PC e mail package, is the primary e-mail software used in Chemistry. Electronic mail messages may be sent/received to/from anyone in the world connected to the Internet or one of its gateways. All students receive a free University email account and use Pine to access

their email. The department's Internet sub-domain name is "chem.washington.edu."

- E. DEPARTMENTAL WORLD WIDE WEB HOME PAGE: The Department maintains a home page on the World Wide Web at the URL:
<http://depts.washington.edu/chemhome/>. This site contains information about the Department's faculty, programs, and research facilities, as well as many useful links to related sites

COMPUTER TEACHING FACILITY The facility in Bagley 48 consists of:

- 2 Silicon Graphics (SG) Indigo workstations
- 12 300 MHz Pentium II workstations.

The SGI workstations run the UNIX operating system and the available software includes: Mathematica, Spartan, Matlab, and Biosym as well as Fortran, C, C++, and many other programming tools. The twelve 300 MHz Pentium II workstations run the Microsoft NT operating system and the available software includes Mathematica, PC-Spartan, Matlab, C, C++, Word, Excel, and PowerPoint All of these computers have Internet access and share a postscript laser printer.

In order to use these computer facilities, individuals must first be assigned a user name and password. For more information about this facility, contact Computer Support in Bagley 363.

Note that all the proprietary software in this facility is licensed (see [Section 3.10](#), Software Copyright Policy).

IBM RS/6000 CLUSTER: This facility consists of 41 IBM RS/6000s clustered with a common file server. This facility is operated by a consortium of research groups within the department for research computing purposes. For more information about this facility contact Computer Support at 3-1699.