

Computing  
at  
OSU Physics

Physics Computer Facility  
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# Physics Support Services

Our Mission:

To help you avoid supporting computers,  
so you can do **PHYSICS**

# Topics

- Facilities
- Applications
- Email
- Access from home
- Accounts
- Policies
- Support Services

# Computing Facilities

- Local network
- Desktop
- Remote supercomputers
- Internet

# Facilities: The Local Network

- Switched Ethernet
- VMS and UNIX servers on Alphaserwer  
2100 multiprocessors
- Windows 2000 Server
- PostScript printers

# Facilities: The Desktop

- Platforms supported:
  - Intel-based PCs (Windows 98/NT/2000/XP)
  - Macs
  - Unix workstations (Digital, Unix, Solaris)
  - Alpha and VAX workstations (VMS)
  - Linux (RedHat v7.2)

# Facilities:

## Computer Lab, Room 2064

- Hardware: 7 Pentiums running Win98
- Software:
  - Mathematica
  - Maple
  - Office 2000
  - Internet Explorer
  - Etc. (please ask)

# Facilities:

## Remote Supercomputers

(The Ohio Supercomputer Center)

- Vector Computer
- Parallel Computers
- Mass Storage
- Visualization Lab
- Specialized Staff

# Facilities: The Internet

- Email on all public servers
- SSH/SFTP/FTP access from any public machine
- Web clients on most public machines
- Web servers for student, faculty and staff personal home pages
- FTP server on Campbell for distribution via anonymous FTP

# Applications

- Numerical (Mathematica, Maple)
- Symbolic computation (IMSL, CERNLIB)
- Scientific typesetting/publishing (TeX/LaTeX, MS Word)
- Network communication
- Data acquisition and processing (MS Access, MS Excel)
- Language support (Fortran 90, Fortran 77, C, C#)

# Email

- POP, IMAP, Host-based clients
  - Outlook, Outlook Express
  - Twig
  - yahMail (<http://mps.ohio-state.edu>)
  - Pine
  - Emacs, rmail, pmdf mail
- POP and IMAP Mail Servers
  - ohstpy.mps.ohio-state.edu (VMS)
  - campbell.mps.ohio-state.edu (UNIX)

# Access from Home: Homenet

- Free package from OIT
- Available for Mac OS, Windows, DOS
- Software, docs and license agreements available from PCF
- Support: OIT (8-HELP/8-4357)

# Computer Accounts

- Separate authentication for services (Win, VMS, Unix, SONNET)
- Application for Physics Computer Account
- OIT “Request for Computer Access or Gopher for SONNET”

# Policies

- Don't steal software
- Don't interfere with others' work
- Don't abuse Internet access

# Specific Support Services

- Analysis of needs
- Access to resources at Physics, OSC and other OSU departments
- Getting software and assistance from OIT
- Purchase of software/hardware

# Additional Resources

- PCF Webpage
  - <http://www.physics.ohio-state.edu/~pcf>
- Email us! [action@mps.ohio-state.edu](mailto:action@mps.ohio-state.edu)
- Site-specific information:
  - Unix: /ohstpy/public or `man policy`
  - VMS: DEV\$PUBLIC:[000000]
- Online help
- Usenet News
- Web search engines (Google, DejaNews, Alta Vista, Lycos, Infoseek, Yahoo, etc.)

# Physics Computing Facility

- By email: [action@mps.ohio-state.edu](mailto:action@mps.ohio-state.edu)
- In person: Smith 2180/2174
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Have a great summer!