

Math Computer Lab Demo

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U of M Computer Account Types

- **x500** U of M student/faculty/staff account. For general e-mail and directory information.
- **Math Department** Vincent Hall computer labs and office machines. Predominantly unix.
- **IT Labs** Teaching and multipurpose labs. Predominantly windows.

Math Dep. Labs

- **Vincent 5** The math department classroom lab. Must schedule with Stephanie for classroom time.
- **Vincent 270D** The graduate student lab. Open lab for any graduate student to use. Good computers.
- **Vincent 314** The undergraduate computer lab. Also available for general graduate student use. Best computers.
- **Vincent 504** The fifth floor lounge. Typically used for quick access. *Not for two day Matlab computations!* Good computers.

Some Notes

All department computers run *linux*.

Check out www.math.umn.edu/systems_guide/labs/ which is linked from the main department page.

There is a door code used to access the computer labs, which is `????*`.

Math Dep. Printers

See www.math.umn.edu/system_guide/printing/

| | |
|-----------------|--------------------------------|
| <i>vinp005</i> | Vincent 5 computer lab |
| <i>vinp107</i> | Vincent Mail Room Bulk Printer |
| <i>vinp270d</i> | Vincent 270D Computer Lab |
| <i>vinp314</i> | Vincent 314 Computer Lab |
| <i>vinp426</i> | Vincent Fourth Floor North |
| <i>vinp454</i> | Vincent Fourth Floor South |
| <i>vinp502</i> | Fifth floor lounge |

Printer Guidelines

There is a printing quota of 1000 pages for graduate students.

1. Use *vinp107* for large jobs.
2. Don't use printers to do a copy machines job!
3. Please pick up your job promptly.
4. If your job runs out of paper, please reload it. Paper is available in Vincent Hall 107.

IT Computer Labs

Lind 24 The IT teaching lab. Windows/Linux.

Walter 103 Walter library workspace. Windows/Linux.

EE/CS 3-170 General purpose lab. Windows.

ME 314 General purpose lab. Windows.

Basic Unix

Many things in unix are done from a command prompt or shell. Here are several basic commands you will need to get around in a shell. There are 2-hour loan books available in the department library for more information.

ls Displays the contents of the current directory.

`ls -l | more` is usefull.

cd Changes the current directory. `cd directoryname`

cp Copy's files. `cp filename1 \filename2`

mv Moves files. `mv filename1 filename2`

man Help for a command. `man commandname.`

lp Printer job command. Also *lpq* and *lprm*.

Math Dep. Password

- **Math Department Password:** To change, use the command `passwd` from a prompt. Then follow directions.
- **x500 Password:** Used to access e-mail and onestop. To change, visit `https://www.umn.edu/dirtools`. Login and follow directions.
- **IT Labs:** Password is set when you create your account. Visit `http://www.itlabs.umn.edu/`

Don't give your password to anyone. Don't reuse for multiple accounts. See

`http://www1.umn.edu/oit/security/` for university wide policies.

E-mail Setup

There are many e-mail clients available for use in the math department. Two common ones are *alpine* and *thunderbird*. Many other options are available. View the systems webpage for information on the various options.

- **alpine:** Easy to use console only e-mail client. Default. Run with `alpine` command.
- **thunderbird** Nice graphical e-mail client. Also a default client. Use menu “applications -> internet -> thunderbird” to access.

IT Labs account

In order to use any of the IT labs, you must activate your account on-line. To do this visit

<https://www.cs.umn.edu/account-management/>

- **Unix Password:** Password for the unix side of IT labs. Should NOT be the same as your math account password.
- **Windows Password:** Will be used often in the IT labs.

NB: You will need to reinitialize your IT account each semester. Be sure to back-up your files, since they may be lost. To back up files use a secure protocol like the `scp` command.

Usefull Software

- **Spreadsheets:** In the department, the most commonly used software is `gnumeric` and `open office (ooffice)`. Open office can also read many microsoft documents.
- **Browsers:** Typically `firefox` or `seamonkey`. There are many more.
- **Math Software:** `Mathematica`, `Matlab`, and `Maple` are available on all of the machines. Specialized software for research will be installed by ADM if necessary.
- **Viewers:** For `pdf` files we have `acroread`, `evince`, and `xpdf`. Postscript files can be viewed with `evince` and `gv`. Use `xdvi` for `dvi` files.

Getting Help

Contact your systems administrators!

- **Math department** E-mail: *adm@math.umn.edu* Phone: 5-4895.
- **IT labs** E-mail: *operator@itlabs.umn.edu* Phone: 5-0876.

Also, don't be afraid to ask fellow students and faculty. We've been doing this for years. Literally.

Final Notes

The university has many free and reduced price software options for you to install on your home computer. For example, matlab, mathematica, microsoft office, etc. There are also discount rates for hardware as well. Visit

<http://techmart.umn.edu>

The Department Computer Systems website,

http://www.math.umn.edu/systems_guide/ has a ton of usefull information, including how to use department hardware (like scanners), how to set up your website, usefull free software to download (ftp and terminal software), as well as brief tutorials to set up e-mail clients, get started with latex, and navigating our linux installation.