Working From Home

This page is under construction -- some of the information is out-of-date. For example, you want Java 1.1.5.

Thanks to Nathan, who authored the Working From Home web page for CS61B of Summer 1997 and Shawn, who updated it for Fall 97.

Link to CS61B main page.

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- ## Home IP
    1. If you want to connect your home computer to the Berkeley network, you can use Berkeley's modem pool via HomeIP. This way you can run all sorts of networking applications at home (such as Netscape, FTP, Telnet, etc.). The following instructions are an extremely abridged version of the real document /usr/pub/home-ip.help . This help file is extremely useful and please do read it. There are lots of other useful help files in this path as well.
        1. The first step in connecting your computer to the network is to set up a Home IP account. You need to officially belong to either the CS or EE departments - if you don't you will need to get your own internet service provider (ISP). For a list of local ISPs, see http://www-resources.berkeley.edu/docs/pages/isp.html .
        2. Log into your cs61b shell account.
        3. At the shell prompt, type the following command:
telnet home-ip.berkeley.edu
and log in as home-ip.
        4. Read selection 8 - Policies and Appropriate Use.
        5. Select 3 - Create an Account
        6. You will be prompted for information, at the end of which a Home IP account will have been set up for you. Accounts take a day or so to be activated.
    2. Additional information regarding home-ip and remote connectivity can be found at:
        - http://www.net.berkeley.edu/dcns/modems/
        - http://www-inst.eecs.berkeley.edu/modems.html.
    3. Once you have a home IP account, you are ready to set up networking on your computer.

        - For All Windows Users (Win3.x/95/NT):
See http://depot.berkeley.edu/.

- For Win95 Users Only:
  See a very helpful page at http://users.bart.nl/~lmeijer/connect.html
- For Mac Users:
  See http://cobweb.berkeley.edu/bik.nclk for getting Berkeley Internet Kit (BIK) for pre-MacOS8.0.
  Or see http://cobweb.berkeley.edu/MacOS_Dialup.html for MacOS8.0.
- For Linux Users:
  See the "Setting up routing from UNIX" section in /usr/pub/home-ip.help

Java At Home

1. Windows 95/NT:
   - Depending on the contents of the CDROM that came with your text book, you may already have the Java Development Kit located at *\JavaTools\Win95\JDK*
     If not, you can always download it here: jdk112.exe(8.23MB)
   - Copy this executable to the path where you would like the development kit to be installed. (The install program creates a directory "java" which all the files are placed in, so it won't spew files all over your hard drive.)
   - You can now delete the copy of the executable on your hard drive.
   - Add the path of the java\bin directory to your *autoexec.bat*
   - If you have any problems you may want to try reading the official installation instructions.
   - More extensive documentation is available as well:
     jdk112doc.zip
2. Macintosh:
   - The CDROM included with the text book does not include the Macintosh version of the Java Development Kit. You will need to download it:
     JDK-1_0_2-MacOS.sea.bin (2.78MB)
   - Installation Instructions

Emacs At Home

- Windows 95/NT:
  If you plan to do alot of coding at home you may want to download the freely available Windows 95/NT port of GNU Emacs.
  - You will need to download two archives:
    emacs-19.34.1-bin.tar.gz (1.57MB) - The compiled binaries. emacs-19.34.1-lisp.tar.gz (7.52MB) - The LISP source.
  - Use an unzipping utility such a WinZip to extract both archives to the same path.
  - Open up an MS-DOS shell and *cd* to the directory containing emacs.
  - If you extracted to the directory *c:\emacs-19.34*, type the following command:
    c:\emacs-19.34\bin\addpm.exe c:\emacs-19.34
    This sets up emacs with the system registry and places the appropriate links in the Start menu.
  - More extensive documentation is available:
    http://www.cs.washington.edu/homes/voelker/ntemacs.html

- To get Java colors working from home:
  (Thanks to Chris)
  - Use Emacs 19.34 or newer.
  - Install the file ~cs61b/lib/emacs/lisp/andersl-java-font-lock.el
    into your emacs lisp directory at home.
  - Byte-compile the file using the emacs command 'byte-compile-file' for better performance.
  - Add the following lines to your personal .emacs file:
    ;;;; Start
    (add-hook 'java-mode-hook 'my-java-mode-hook)
    (defun my-java-mode-hook ()
    (cond (window-system
    (require 'andersl-java-font-lock)
    (turn-on-font-lock))))
    (if (fboundp 'global-font-lock-mode)
    (global-font-lock-mode t))
    (setq auto-mode-alist (cons '("\\.java" . java-mode) auto-mode-alist))
    (setq font-lock-maximum-decoration t)
    ;;;; End

    Those commands will make Emacs color everything it can, and use as many colors as possible. It will also turn on java mode automatically when you open a '.java' file.
    If coloring doesn't work after doing this stuff then you probably don't have all the required Emacs libraries--try downloading a new version of Emacs.

- ## PC Disks on the Solaris Machines

  Information on how to do this is in the file /usr/pub/Solaris.drives on the Berkeley machines. Here's an abridged version:
  - FORMAT
    fdformat -d /vold/dev/rdiskette0
  - READ/WRITE A FORMATTED FLOPPY
    1. volcheck
    2. cd /floppy
    3. ls

       floppy0 no_name
    4. cd no_name

    Now you have changed the directory to the floppy disk and can use all of the standard UNIX commands (cp, ls, etc).

    When you're done using the flopydisk DON'T JUST EJECT IT FROM THE DRIVE!! Use the follwoing commands to be sure the disk is properly updated:
    1. cd /

2. eject

Now you can take the floppy out of the drive.

- ## Transfer files with ftp

  A convenient way to transfer files between your home computer and the instructional machines is to use ftp. The following is a quick walk-through of uploading and downloading files on PC. For more information on ftp, please refer to the UNIX man page by typing at UNIX prompt: man ftp

  - Uploading a file (from home computer to instructional machine)
    1. Open an MS-DOS prompt (Command Prompt on NT), and change directory to where the file is stored. Type :
       ftp cory.eecs.berkeley.edu // or any instructional machines name
    2. Enter your login name and password.
       Now you just logged into an instructional machine, and you should be in your UNIX home directory.
    3. Change directory to where the file is to be stored by:
       cd directory_name
       If the directory does not exist, create it by:
       mkdir directory_name
       cd directory_name
    4. To transfer text files, e.g. java program files, type:
       ascii
       To transfer binary files, e.g. java class files, type:
       bin
    5. Type the following:
       put filename
       // substitute "filename" with your file
    6. Quit ftp program by typing:
       bye
  - Downloading a file (from instructional machine to home computer)
    1. Open an MS-DOS prompt (Command Prompt on NT), and change directory to where the file is to be stored. Type :
       ftp cory.eecs.berkeley.edu // or any instructional machines name
    2. Enter your login name and password.
       Now you just logged into an instructional machine, and you should be in your UNIX home directory.
    3. Change directory to where the file is stored by:
       cd directory_name
    4. To transfer text files, e.g. java program files, type:
       ascii
       To transfer binary files, e.g. java class files, type:
       bin
    5. Type the following:
       get filename
       // substitute "filename" with your file
    6. Quit ftp program by typing:
       bye