



Getting Started with FreePPP For the Macintosh

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Introduction

FreePPP is a software that can be used with a modem to make Point-to-Point Protocol (PPP) connections. This means you can connect to the Internet via a telephone line and use client software as you would with a direct ethernet connection. FreePPP was developed by the FreePPP group, and it works with Apple's Open Transport software.

The minimum requirements for FreePPP are
68020 or better processor, System 7.1, MacTCP 2.0.6

You should also have a modem and an ITS username. UH faculty and staff who need an ITS username can call the ITS Help Desk at **956-8883**. UH students who need an ITS username should go in person to the Help Desk (Keller 105). You can obtain the FreePPP 2.6.2 Kit from the World Wide Web (WWW) at

www.hawaii.edu/help/software.html

Do **not** use this FreePPP Kit if you have a direct (non-modem) Internet connection (e.g. you're on campus and your computer is connected by a cable to a datajack). If you are having trouble with your direct Internet connection, please contact the Help Desk (see the box at the end of this document for contact information) for assistance.

If your Macintosh does not meet the minimum requirements, you should use the MacPPP Kit Installer instead. Please refer to the ITS document *MAC002 Getting Started with MacPPP* for more information.

If your operating system is MacOS 8.5 or higher, it is recommended that you use Apple's built-in software (PPP or Remote Access) instead of FreePPP.

Installation

1. Double click on the **FreePPP Kit Installer** icon.



CAUTION: DO NOT USE THIS INSTALLER for on-campus “networked” computers. This kit is designed for use with modems only.

2. Click **Continue**.
3. An informational screen will appear. Please read all of the information in this screen. You can print it out by clicking on the **Print...** button. You can save it to a file by clicking on the **Save...** button. To continue with the install, click on **Continue**.
4.
 - a. Another screen will appear. If you want to install all the pieces, click on **Install**. The Installer will ask you where you want to install the clients. Choose a location on your hard drive and click **Install**.
 - b. If you want to install only a few pieces, click on **Custom**. You can choose multiple items by holding down the **command** key and clicking once on each item you want. Please keep in mind that certain items are required. When you have chosen the pieces you want to install, click on **Install**. (If you want to go back to the standard install, click on **Standard**.) The Installer will ask you where you want to install the clients. Choose a location on your hard drive and click **Install**.
5.
 - a. [System 7.5.2 and below] If you are asked to restart your Macintosh, click on **Restart**. When your Macintosh has finished restarting, double-click on the **Install FreePPP 2.6.2** icon that's on your Desktop.
 - b. [System 7.5.3 and above] If you are not asked to restart your Macintosh, wait a few seconds and the FreePPP 2.6.2 Installer will launch automatically.
6. Click on **Install**, then click on **Install** again. If necessary, click on **Continue**. The install will begin. Keep clicking on **Next** until you see a **Restart** button. Click on **Restart**.

Note: when your Macintosh restarts, your modem may start dialing. If it does, click on the **Stop** button.

You will see a **Network Clients folder** open on your screen. This folder contains the programs **NCSA Telnet** (for email), **Fetch** (for file transfers), and **StuffIt Expander** (decode/decompress downloaded files). You might also see some files with the extension **.old**. You do not have to do anything with these files. They are backups of your old settings. Please leave them in place as they will be used by the ITS consultants if necessary.

Setting up FreePPP

1. In the upper right corner of the screen should be a phone icon. This is the **FreePPP** menu. Click and hold down the mouse button. Select **Open FreePPP Setup...**
2. a. [System 7.5.2 and below] A window will appear. In the lower left corner of the window, click on the button that says **Open MacTCP**.
b. [System 7.5.3 and above] A window will appear. In the lower left corner of the window, click on the button that says **Open TCP/IP**.
3. a. [System 7.5.2 and below] A window will appear. Make sure the FreePPP icon is highlighted. Click on **More**. The following window will appear. Make sure the settings match what's shown, then click on **OK**. Now, close the MacTCP window.

The screenshot shows a configuration window for FreePPP. It is divided into several sections:

- Obtain Address:** Three radio buttons: Manually, Server, and Dynamically.
- Routing Information:** A text field for **Gateway Address:** containing "128.171.33.1".
- IP Address:** A section with a **Class:** dropdown set to "B", an **Address:** field set to "128.0.0.0", and a **Subnet Mask:** field set to "255.255.255.0". Below this is a grid of 24 boxes representing the IP address and mask, with a vertical line at the 16th position. Underneath the grid is a table:

	Net	Subnet	Node
Bits:	16	8	8
Net:	32768		
Subnet:	0		
Node:	0		

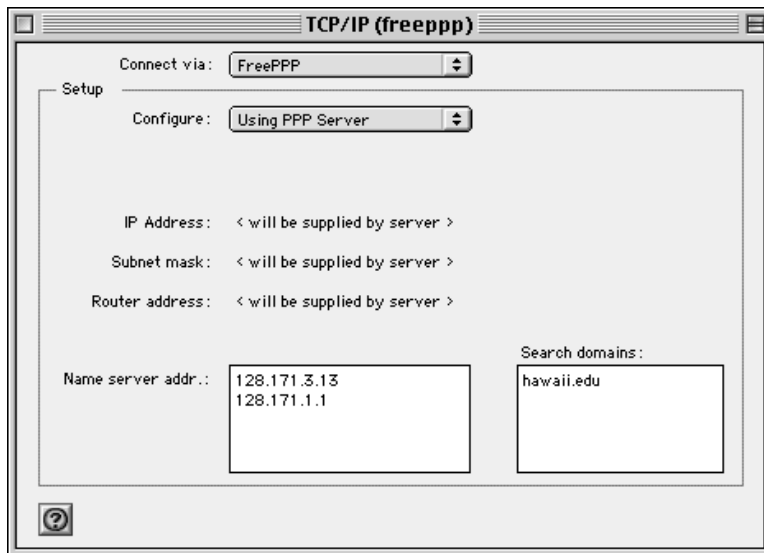
Each of the Net, Subnet, and Node rows has a **lock** checkbox to its right.
- Domain Name Server Information:** A table with three columns: **Domain**, **IP Address**, and **Default**.

Domain	IP Address	Default
hawaii.edu	128.171.3.13	<input checked="" type="radio"/>
	128.171.3.13	<input type="radio"/>
	128.171.1.1	<input type="radio"/>

Navigation arrows are visible to the right of the table.

At the bottom left are **OK** and **Cancel** buttons.

- b. [System 7.5.3 and above] The following window will appear. Make sure the settings match what's shown, then close the window. You might see a slightly different window, depending on your **User Mode** (under the EDIT menu) setting. However, the only settings you need to worry about are the ones shown below. After making sure the settings match, close the TCP/IP window.



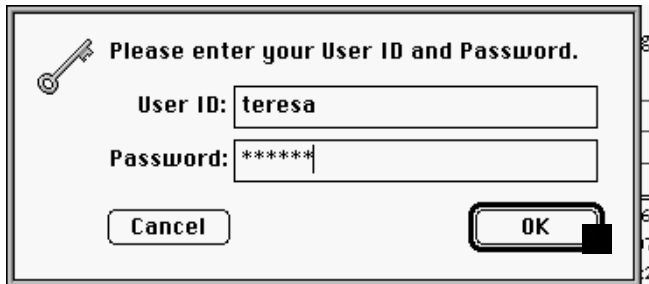
4. You will be back at the FreePPP Setup window. Click on the **Accounts** tab. If you do not see **28.8 modem pool** and **28.8 modem pool (Terminal)** on the left hand side, please refer to *Appendix A* on page 7 for information on creating these two items. After completing Appendix A, you may continue on to the next section, *Connecting to the modem pool*.
5. On the left hand side, highlight **28.8 modem pool**, then click the **Edit** button.
6. Another window should appear. Click on the **Dialup** tab. Make sure the Phone number is **440-0002**. If you are dialing in from the Mānoa campus, change the Phone number to **9,440-0002**. Click **OK**. You will be asked if you are sure you do not want to enter an area code for the phone number. Click on **Yes**.
7. On the left hand side, highlight **28.8 modem pool (Terminal)** and repeat step 6.

You are now ready to begin a PPP connection.

Connecting to the modem pool

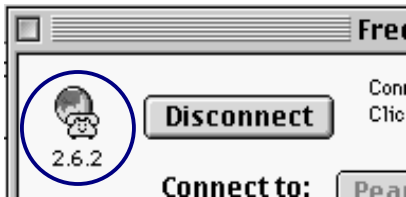
1. If you are not at the FreePPP Setup window, go to the **FreePPP** menu and select **Open FreePPP Setup**.
2. Make sure the rectangle next to **Connect to:** says **28.8 modem pool**. Click on the **Connect...** button.
4. Your modem will dial. If you do not get into the modem pool right away, FreePPP will redial for you until you get a connection.

- Once you have connected to the modem pool, you will be prompted for a Username and a Password:



On the User ID line, type your **ITS username** and press the **Tab** key.
On the Password line, type your **password**, then click on **OK**.

- FreePPP should finish establishing the connection and you should receive a “Successful” message. You will return to the FreePPP Setup window. You should see the globe spinning behind a smiling telephone, and the Connect button should have changed to **Disconnect**.



- Close the FreePPP Setup window. You can now use your network applications (e.g. Netscape, Telnet).

Connecting to the modem pool (Terminal Window)

You should only connect via the terminal window if you are having trouble connecting through the first procedure.

- Go to the **FreePPP** menu and select **Open FreePPP Setup**.
- Click on the rectangle next to **Connect to:** and select **28.8 modem pool (Terminal)**.
- Click on the **Connect . . .** button.
- Your modem will dial. If you do not get into the modem pool right away, FreePPP will redial for you.
- Once you get into the modem pool, the terminal window will appear.
 - At the ITS Username prompt, type your **ITS username** (e.g. teresa) and press the **Return** key
 - At the Password prompt, type your **password** and press the **Return** key
- At this point, you will see some garbage displayed on the screen. FreePPP may autodetect the start of PPP, in which case you will see the connection proceeding. If not, you should click on the **Start PPP** button.

- FreePPP should finish establishing the connection and you should receive a “Successful” message. You will be back at the FreePPP Setup window. You should see the globe spinning behind a smiling telephone, and the Connect button should have changed to **Disconnect**.
- Close the FreePPP Setup window. You can now use your network applications (e.g. Netscape, Telnet).

Automating the connection (optional)

You can automate the Pearl and 28.8 connection procedure by permanently entering your ITS username and password. If you follow the procedures in this section, you will no longer have to enter your ITS username and password each time you connect to the modem pool. (You will still have to enter them each time you login to uhunix or Eudora.)

Do **NOT** do this section until **after** you make sure your PPP connection is working properly!

- Go to the FreePPP menu and select **Open FreePPP Setup...**
- Click on the **Accounts** tab.
- On the left hand side, highlight **28.8 modem pool**, then click on the **Edit** button.
- On the Username line, type your **ITS username** and press the **Tab** key.
On the Password line, type your **password**.
Click on **OK**.
- You will be asked if you are sure you do not want to enter an area code. Click **Yes**.

Now, whenever you connect to either modem pool, you will not have to enter a username or password.

Disconnecting from the modem pool

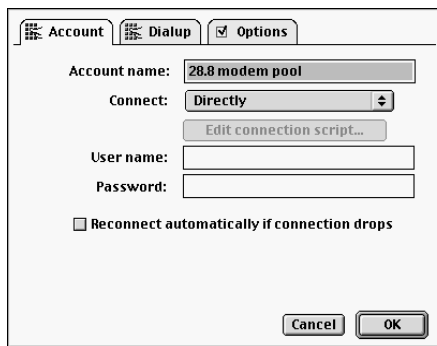
When you are finished with your connection to the modem pool, quit out of all of your network applications. Then, go to the **FreePPP** menu and select **Close PPP Connection**.

Appendix A

If your FreePPP is not set up to dial in to UH after you have run the FreePPP Kit installer, follow these steps to configure FreePPP to connect to UH.

28.8 Modem Pool

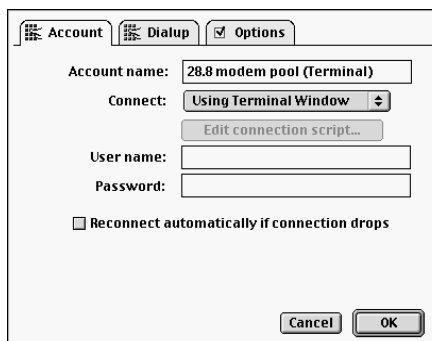
1. Click on the **Accounts** tab. Click on **New** to create a new account.
 - Type in the Account name: as shown below. Set Connect: to **Directly**. Your screen should now look like this:



2. Click on the **Dialup** tab. In the Phone Number box, type **440-0002**. If you are dialing in from the Mānoa campus, type **9,440-0002**.
3. Click **OK**. You will be asked if you are sure you do not want to enter an area code. Click **Yes**.

28.8 Modem Pool (Terminal)

1. Click on the **Accounts** tab. Click on **New** to create a new account.
 - Type in the Account name: as shown below. Set Connect: to **Using Terminal Window**. Your screen should now look like this:

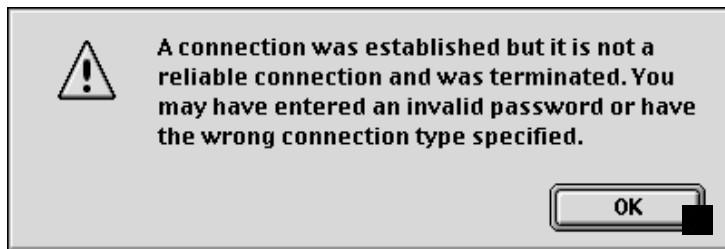


2. Click **OK**. Click on the **Dialup** tab. In the Phone Number box, type **440-0002**. If you are dialing in from the Mānoa campus, type **9,440-0002**.
3. Click **OK**. You will be asked if you are sure you do not want to enter an area code. Click **Yes**.

Go back to page 4 and continue with the section *Connecting to the modem pool*.

Troubleshooting

- Q:** When I connected to the modem pool, I received this message. Is something wrong with my software?



- A:** Not necessarily. You might have hit a bad modem (on our side, not your modem) or typed in the wrong password. Try again, and make sure you're typing in the correct password.

If you've tried several times and are still having trouble, try connecting through the Terminal Window (see instructions that begin on page 5).

- Q:** When I choose **Open FreePPP Setup**, nothing happens.

- A:** You should rebuild your desktop. Hold down the **Command** and **Option** keys and restart your Macintosh. Keep holding down the keys until you get the message "Are you sure you want to rebuild the desktop?". Let go of the keys and click on **OK**. After the desktop rebuilds, try choosing **Open FreePPP Setup** again.

- Q:** When I click on **Connect**, I get a message saying that the modem couldn't be found. However, I have my modem connected properly because I can dial out with my terminal software (zterm, claris, etc.)

- A:** Open the FreePPP Setup window. Click on the **Modems** tab. Highlight **Default modem** or **Generic modem** then click on **Edit**. Under the section called **Modem init string settings**, click on the **Use** button; a box will appear. Make this box blank, click **OK**, and try connecting to the modem pool again.

If that doesn't work, go back to the **Modems** tab, type **AT&F1** in the box, and try again.

If this still doesn't work, go to the following web page and look up your modem's init string:

www.tidbits.com/iskm/modems.html

Go back to the **Modems** tab, type your modem's init string into the **Use** box, and try again.

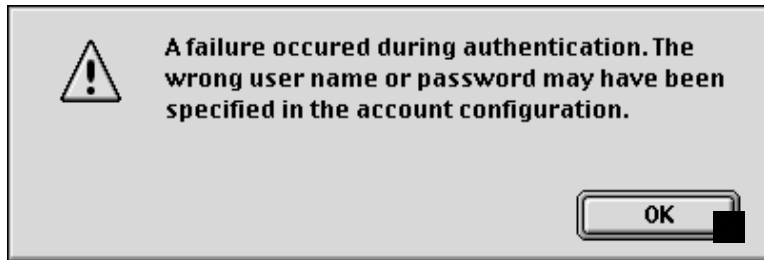
- Q:** I get stuck at "Logging on" or I get the message "not a reliable connection...terminated".

- A:** Make sure you are typing your **ITS username** in the Username box, not your email address. Your ITS username does **NOT** have "@hawaii.edu" appended. For example, my ITS username is *teresa*, so I would type **teresa** in the Username box. I would **NOT** type *teresa@hawaii.edu*. If you are typing the correct ITS username, make sure you are typing the correct password. Remember, passwords are *case-sensitive*.

Q: I upgraded to System 7.5.3 by installing System 7.5 Update 2.0. I don't see the TCP/IP control panel. Where is it?

A: Open your hard drive. Look for a folder called **Apple Extras** and open that folder. Double click on the **Network Software Selector**. Choose **Use Open Transport Networking**. Quit out of the Network Software Selector and restart your Macintosh. When it's finished, check your Control Panels folder; you should now have the TCP/IP control panel.

Q: When I try to connect to the 28.8 modem pool, I receive the following message. I'm positive I typed my password in correctly (I've tried several times and I typed my password slowly). Is something wrong with my software?



A: Not necessarily. Sometimes, ITS' authentication machine is not working quite right. The problem usually clears up. Try again later that day or the next day. If the problem persists, try connecting through the Terminal Window (see instructions on page 5). If you get "authentication failed" or "invalid login" when you type in your password and you are sure you typed it in correctly, call the Help Desk (956-8883) for assistance.

Getting Help

A Frequently Asked Questions (FAQ) document on FreePPP is available at

www.rockstar.com/Support/ppp_faq.html

For additional assistance, please phone the ITS Help Desk at (808) 956-8883, send e-mail to help@hawaii.edu, or fax (808) 956-2108.

Or see the ITS Helpdesk home page at www.hawaii.edu/help
The ITS Help Desk is located in Keller 105 on the UH Mānoa Campus.

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