Installing AIMBAT

Seismo Group

May 9, 2014

1 Macport Problems

You may run into problems with AIMBAT if your Macport version is not compatible with your operating system version. For example, if you used Macports for OS X 10.8 to install AIMBAT, then upgraded your operating system ot OS X 10.9, you may find that AIMBAT no longer works properly. You will need to upgrade Macports to fix this error.

Do not uninstall MacPorts unless you know what you are doing, uninstalling MacPorts may get rid of other programs you installed using MacPorts. However, if you are sure you want to do so, see here for instructions: `https://guide.macports.org/chunked/installing.macports.uninstalling.html`.

2 Setting the Python Path to the scripts

You are asked to add the path to the AIMBAT scripts in your file. To do that, you add them to the `.bashrc` file. There are other files you could add it to that work as well, such as the `.profile` or `.bash_profile` files. You can see the files by opening the terminal and doing `ls -a` to see all the hidden files, and open then by doing `vi .bashrc` in vim, for instance.

To ensure you can open a script, you need to add

```
export PATH=$PATH:<path-to-folder-with-scripts>
export PYTHONPATH=$PYTHONPATH:<path-to-folder-with-scripts>
```

to the `.bashrc` file. We recommend adding the paths to the `.bashrc` file, for reasons listed here: `http://stackoverflow.com/questions/415403/whats-the-difference-between-bashrc-`

3 Terminal Commands stop working

If ever the terminal commands such as `ls` stop working in the terminal, it could be that something went wrong with a path in the `.bashrc` or `.profile` files. If that happens you may not be able to open them in vim as that command would have stopped working as well. Instead, in the terminal, you do

```
PATH=/bin:${PATH}
PATH=/usr/bin:${PATH}
```

And that should allow the commands to start working again. Figure out what you did wrong and remove that command.

4 Uninstalling Enthought Canopy

The official Enthought gives suggestions on uninstalling here: `https://support.enthought.com/entries/23580651-Uninstalling-Canopy`

STEP 1: From the Canopy preferences menu, unset Canopy as your default Python.

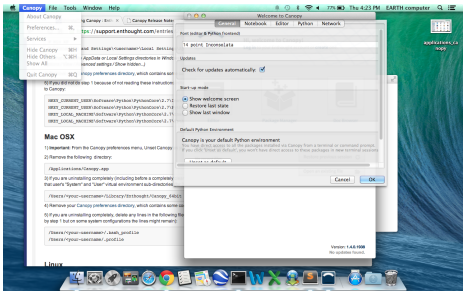

Figure 1: Canopy preferences

STEP 2: for each Canopy user, delete the following directory which contains that user's "System" and "User" virtual environment subdirections.

STEP 3: Delete Canopy from the Applications folder.

Figure 2: applications canopy

STEP 4: Clean up the hidden files. Delete anything referencing Canopy or Enthought in the hidden files, as evidence by referencing `ls -a` in your home directory. Check the `.bashrc` and `.profile` directories first. If Enthought is not completely gone, this happens if you call Python:

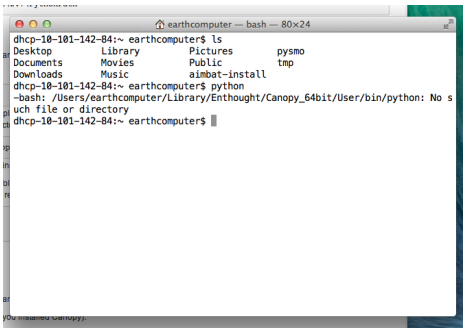

Figure 3: Residue

5 Path to python files not found

After adding the path to your directory with scripts in `.bashrc`, you still need to source the `.bashrc` files in `.profile`, or the system may not find the directory.

This explanation from `http://publib.boulder.ibm.com/infocenter/pseries/v5r3/index.jsp?topic=/com.ibm.aix.baseadmn/doc/baseadmndita/prof_file.htm` explains how the profile file is sourced.

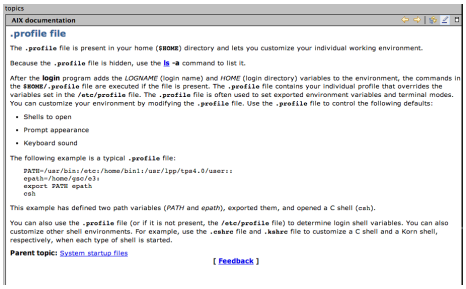

Figure 4: Profile file

This explanation from `http://linux.die.net/man/1/bash` explains how the bashrc file is sourced.

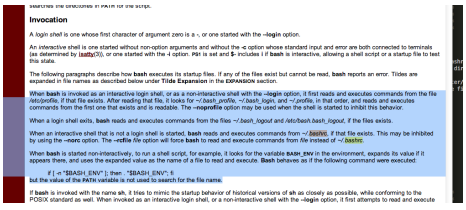

Figure 5: Bashrc file

This is what the bashrc and profile files should look like on your home

directory:

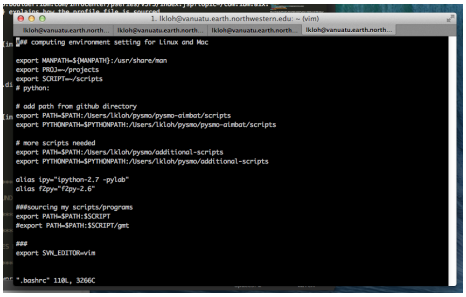

Figure 6: Bashrc home

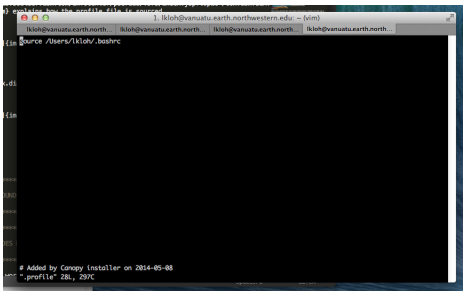

Figure 7: Profile home

6 Picking Travel Times does not work

If you run `ttick.py <Event name>.bhz.pkl`, a GUI will pop up for you to manually pick the travel times by pressing the keyboard. If typing on the keyboard as directed does not allow you to pick travel times, it could be a problem with the keyboard settings, or the matplotlib backend.

To fix this, first look for the `.matplotlib` directory. It is hidden so in your home directory do `ls -a` to find it.

Once you have found the `.matplotlib` directory, cd into it, and then look for the `matplotlibrc` file.

Inside that file, ensure the backend is set to:

```
backend : TkAgg
```

Comment out the other backends!

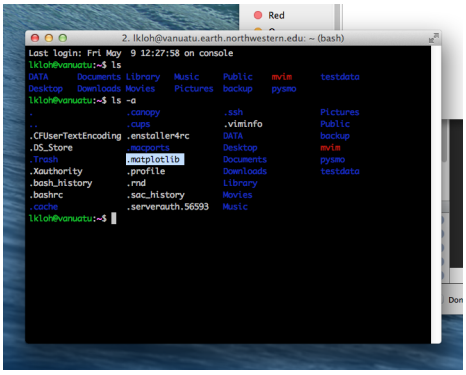

Figure 8: Matplotlib hidden directory

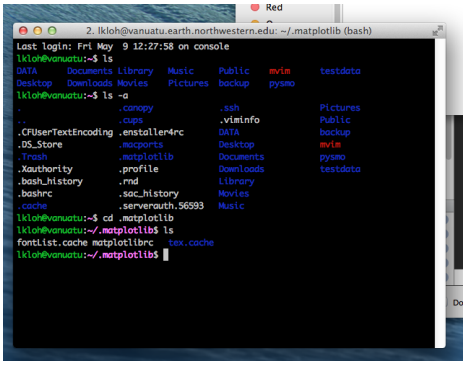

Figure 9: .matplotlib files within

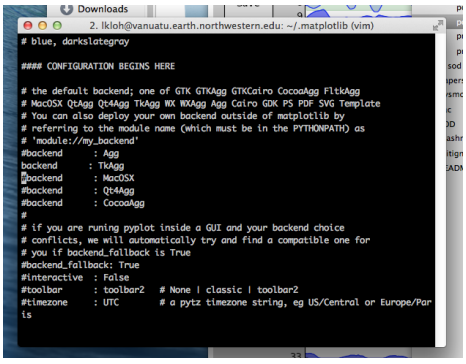

Figure 10: Matplotlibrc backend