Installing AIMBAT

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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 Installing Python with Pip

Be careful with the operating system. For OS X 10.9 and above, Python 2.7 is not fully compatible and there may be problems installing python with Pip. Best to use Enthought Canopy or Python 3 with OS X 10.9.

3 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-

4 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.

5 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.

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:

STEP 5: (Optional). Keep doing which python and cleaning the python files that show up, until which python gives you nothing when you type it in the terminal.



Figure 2: applications canopy

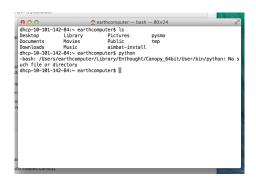


Figure 3: Residue

6 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. Note that this one will override the file in /etc/profile.



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

7 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.



Figure 8: Matplotlib hidden directory

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

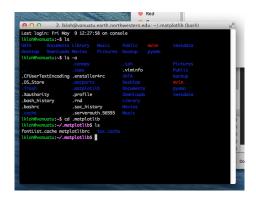


Figure 9: .matplotlib files within

Inside that file, ensure the backend is set to:

backend : TkAgg

Comment out the other backends!



 ${\bf Figure~10:~Matplotlibrc~backend}$