Setting up your UNIX Environment for
Large Berkeley Projects

This document is an add-on to the document titled "Setting Up Your UNIX Environment for Large Projects". If you have not read that article yet, you should read it first. This article's aim is to provide extra aliasing commands and advice to UC Berkeley students trying to write programs for Computer Science course projects.

Table of Contents

Berkeley Computer Severs

The computers at Cal, like Star, Stella, Empress, and Hive are all different, but contain many of the same aliases. It is highly recommended that you code on your own personal Ubuntu before sending files to these machines for testing because they will be much slower than your local computer. That said, if you really must work with them, the Hive machines are highly recommended because they are also running some of the fastest machines in Berkeley (the Sutardja Dai machines, like Empress and Davey, are also good). Other machines like kittyhawk, nova, and star aren't even comparable in speed to these computers.

More Useful Aliases

Submitting files for projects, as you probably know, is interactive, meaning that it asks you whether you want to submit each individual file in the directory. This can be extremely tedious for large projects. Because of this, it is highly recommended that you alias your submission command.

"submit -b" naturally submits everything in the project folder (your TAs will only look at pertinent files anyway), so it is possible to go to the project folder, and type "submit -b" to turn in your projects.

> **Note:** Just because your readers and TAs will look for the correct files doesn't mean that they will be forgiving if you hide your files away, of course. Because of this, you should always call submit from the innermost directory from which you can still see all of your project files.

It is also possible to alias this command, by putting the following alias in the .bash_profile file (since they don't have .bashrc files) in your account:

```
alias submit="submit –b"
```

This will save you the horrifyingly tedious process of tapping the "Y" and "Enter" keys on your keyboard repeatedly until every file in your folder has been submitted.

Berkeley has a built in interactive removing and copying alias that makes removing files and copying files extremely tedious. Because of this, you should put the following commands at the bottom of your school account's .bash_profile file:

```
unalias rm
unalias cp
```