Standalone Variable Rates post processor

The standalone variable rates post processor allows a user to create the same summary information for a variable rates analysis as the web site but can be run on a local computer, users may want to do this if there results are large, they have a slow internet connection or if they have a large number of analysis they wish to batch process.

Running the post processor

The post processer runs from the command line / terminal and takes the variable rates file (.VarRates.txt) not the log file, the results can be redirected to a file. For Windows and Linux there is a multi-core version called PPPostProcessP.exe and PPPostProcessP respectively, an OS X version has to be built for each specific system, see below.

For windows this would be

```
PPPostProcess.exe VaraiableRatesFile > Results
```

e.g

```
PPPostProcess.exe Carnivores.txt.VarRates.txt > Results.txt
```

For Linux / OS X

```
./PPPostProcess VaraiableRatesFile > Results
```

e.g

```
./PPPostProcess Carnivores.txt.VarRates.txt > Results.txt
```

Source code

The post processer code is a mess and was initially designed to produce the results in the "Venditti, C., Meade, A. & Pagel, M. Multiple routes to mammalian diversity. Nature 479, 393–396 (2011)." paper. It has been repurposed for this and will be rewritten soon.

To build the program use

```
gcc *.c –O3 –lm –oPPPostProcess
```

or to build the multi-core version use, normally the multi core version scales well.

```
gcc *.c –O3 –lm –fopenmp –oPPPostProcessP
```