Dwarf Installation

Download

Download the appropriate zip file from:

`http://software.markdpreston.com/dwarf`

It is assumed that you are familiar with downloading software, installing it on your computer and using R.

Linux

Install R and all of the required libraries via the command line:

```
sudo apt-get install r-base r-cran-rcpp r-cran-mvtnorm
wget http://code.google.com/p/kbac-statistic-implementation/downloads/detail?name=KBAC-110527.zip
```

Then within R install KBAC, SKAT and RInside with the commands:

```
install.packages("RInside")
install.packages("SKAT")
install.packages("KBAC-110527.zip")
```

Run dwarf from the command line with:

`./dwarf`

Windows

Download and install R.
Modify line XX in dwarf.bat to specify the installation folder of R.
Install Rcpp, RInside, mvtnorm and SKAT using the `install.packages` command within R.
Download (using the link in the Linux section above) and install KBAC in R.
Open a command line window, navigate to the dwarf folder and run `dwarf.bat`.

Source

You will need the blitz, boost, boost_system, eigen, f2c, gsl, gslblas, R, Rcpp and RInside libraries installed, as well as a rational set of development tools including fortran, gcc, g++, make.

On Linux this is achieved with command lines similar to:

```
sudo apt-get install gfortran gcc g++ make
sudo apt-get install libblitz0dev lib-boost-all-dev libboost-system-dev libeigen3-dev libf2c-dev libgsl0-dev
```

The R libraries and header files should already be in place from the Linux executable instructions above.
In the source folder run `make` - the make includes paths to the usual installation places and queries R for the others.
Building on Windows is more complex and not really recommended due to the large number of libraries required. If you do build dwarf for Windows and make a sane set of instructions then please get in touch.