Using MCSim on Windows with MinGW

Getting C compiler and command line shell MSYS

- 1. Download MinGW from: https://sourceforge.net/projects/mingw/files/latest/download?source=files
- 2. Run the setup file mingw-get-setup.exe
- 3. Select the default directory for installation C:\MinGW
- 4. In the Installation manager
 - a. Mark the "basic setup" for installation
 - b. Apply changes this will take a while
- 5. Go to C:\MinGW\msys\1.0\etc and rename fstab.sample as fstab (without any extension)
- 6. Go to C:\MinGW\msys\1.0
 - a. Create a shortcut for the "msys.bat" Windows batch file and put on the desktop
 - b. Double click this icon, and it will give you a "unix" shell command line. The "home" directory is C:\MinGW\msys\1.0\home\[USERNAME]\

Installing basic version of MCSim (WITHOUT any libraries, such as GSL)

- 1. Download latest version from http://ftp.gnu.org/gnu/mcsim/mcsim/ftp.gnu.org/gnu/mcsim/mcsim-5.6.5.tar.gz)
- 2. Move to the "home" directory C:\MinGW\msys\1.0\home\[USERNAME]\
- 3. Open the MSYS command line (if you haven't already) and do the following:
 - tar -xvzf mcsim-5.6.5.tar.gz
 - cd mcsim-5.6.5
- 4. Then compile the program from the MSYS command line (the last one does some checks) [make sure you are in the directory ~\mcsim-5.6.5].
 - ./configure
 - make
 - make install
 - make check

Testing with simple models

- 5. From the MSYS command line, go to the perc example directory and compile the model file:
 - cd ~/mcsim-5.6.5/examples/perc
 - makemcsim perc.model
- 6. The new file "mcsim.perc" is the executable. Now run the program with test "perc.lsodes.in" file
 - ./mcsim.perc perc.lsodes.in

This should create the output file: sim.out

7. You should try similarly the various examples provided to see the various types of simulations available.