Installing nlmixr for Windows

Rtools is required to supply the compiler for packages like nlmixr in which R code is converted to C. Rtools34.exe (version 3.3.x and later) can be downloaded from <http://cran.r-project.org/bin/windows/Rtools/>. Install by double-clicking the file and following the prompts. Select the default items but remove the 32 bit toolchain option (so keep "R toolset", "Cygwin DLLs", and "R 3.3.x+ 64 bit toolchain").

During the installation process, in the “Select additional tasks” window, check the box for “Edit the system path: Current value:”, and ensure the path contains the following items:

C:\Rtools\bin;

C:\Rtools\mingw\_64\bin;

Then install your preferred R package if not yet installed (e.g. download microsoft-r-open-3.3.1.msi, from <http://mran.revolutionanalytics.com/download/>, and install R by double-clicking microsoft-r-open-3.3.1.msi. Continue using all the default suggestions.

Then start R and run the following commands to install the required packages:

install.packages("Rcpp")

install.packages("RcppEigen")

install.packages("RcppArmadillo")

install.packages("BH")

install.packages("coda")

install.packages("brew")

install.packages("inline")

install.packages("lbfgs")

Finally install the source code packages for RxODE and nlmixr as provided on the GitHub page using the commands below. There will be numerous warning messages but these can be ignored:

install.packages("RxODE\_0.5-4.tar.gz", repos = NULL, type = "source")

install.packages("nlmixr\_0.9.0-1.tar.gz", repos = NULL, type = "source")

This concludes the installation of nlmixr.