R Profiling Part 2 – The R Profiler

1. Rprof() function starts the Profiler in R
   1. Use summaryRprof() to summarize the output of Rprof() else it is not readable
   2. system.time() and Rprof() together crashes R in a bad way ☹
2. Properties of Rprof()
   1. Keeps track of the function call stack at regularly timed intervals (0.02 seconds)
   2. Tabulates how long R spends on each function
   3. Example of format: Rprof(lm(y ~x))
3. Properties of summaryRprof()
   1. Tabulates the R profiler output and calculates how much time is spent in each function
   2. Can be normalized in 2 ways
      1. by.total – divides the time spent in each function by total run time
         1. how many times was this function called including all subfunctions
      2. by.self –divides the time spent in each function by total run time, subtracting out low level functions
         1. how many times was the entire function called, more useful