April 28th 2003

The file **runfiles.m** takes the responses and runs through the other .m files until convergence of the EM algorithm. Edit this file to import new response data.

You can choose to

- fix at the chance line (startflag = 0)
- estimate initial conditions (startflag = 1) assuming initial probability of a correct response is close to chance
- estimate initial conditions (startflag = 2) assuming initial probability of a correct response is completely estimated

If the EM fails to converge it may be:

1. poor starting value - change parameter sige

2. too stringent convergence criterion – increase parameter cvgce_crit and check that newsigsq has converged by plot(newsigsq)

3. there is not enough data/information to estimate the hidden process and there is likely to be no learning occurring

4. need to increase number of EM iterations by increasing num_steps

5. choosing startflag = 0 so that the initial condition is fixed converges in more cases than when startflag =1

Bugs and questions to: asmith@neurostat.mgh.harvard.edu