EEL 6502

HMW # 6

Due April 3, 2012

Using the noisy data from Project 1, implement an adaptive gamma filter and compare the performance with the FIR filter you used in the project. The goal is to a find possible advantage of using the gamma delay operator instead of the ideal delay operator. So you should select a smaller filter order (1/2) of the order that you used for project 1, and see how the gamma filter performs as a function of the feedback parameter m. Just scan m between 0.1 and 1 and compare the ERLE (and listen to the error). You should use the NLMS to adapt the feedforward filter weights.