Here we run the SRN simulations with:

run\_SRN\_Frank\_exp1.m

run\_SRN\_Frank\_exp3.m

It runs simulations following Experiments 1 and 3 in Frank et al. (2010). To run all of the simulations for the various languages, type the following command at the Matlab prompt:

run\_all\_SRN\_Frank\_exp1 % for languages in Expt. 1

run\_all\_SRN\_Frank\_exp3 % for languages in Expt. 3

The results will be output to Excel files called:

SRN\_Frank\_Expt1.xls

SRN\_Frank\_Expt3.xls

At the Matlab prompt (>>), type

run\_SRN\_Frank\_exp1(‘L3’) % for languages in Experiment 1

run \_SRN\_Frank\_exp3(‘L3’) % for languages in Experiment 3

This allows the user to run individual languages. The run\_all\_SRN\_Frank\_exp1 and run\_all\_SRN\_Frank\_exp3 scripts allow all languages to be run.

Worksheets created are:

‘Main’ has the averages for words in A2, for partwords in A3.

‘Words’ has all data for words

‘Partwords’ has all data for partwords

All parameter settings are in SRN\_set\_params.m

For the simulation of Frank et al. Expt 1:

The program (for 25 runs, 12 subjects per run) for one language type (e.g., L2), takes about 2.5 minutes to run on a PC with the followings specs:

Intel® Xeon® CPU,

X5365 @ 3.00 GHz,

2.99 GHz, 3.99 GB of RAM

Count about 20 minutes to run all eight languages: L1, L2, L3, L4, L6, L8, L12 and L24.

For the simulation of Frank et al. Expt 3.

The program (for 25 runs, 12 subjects per run) for one language type (e.g., L2), takes a little less than 3 minutes to run on a PC with the followings specs:

Intel® Xeon® CPU,

X5365 @ 3.00 GHz,

2.99 GHz, 3.99 GB of RAM

Count about 15 minutes to run all 5 languages: L3, L4, L5, L6, and L9.