Java spiking simulator:

Known Bugs:

1: If there are synapses to neurons that don’t exist, the program crashes. It should exit with some sort of useful message.

Error is something like:

Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 2

at Network.NeuronalNetwork.setUpInternalSynapses(NeuronalNetwork.java:112)

at Driver.RunNeuralNetwork.main(RunNeuralNetwork.java:238)

24 Feb: fixed for internal neurons – that is, there’s now a message before the program crashes.

2: System is very verbose. Needs some flags to control this.

2a: added -v flag to control verbosity. Could also do with a -debug flag to control debug settings without altering program text.

3: debug (public Boolean) now place in AbstractSynapse and in AbstractCompartment so can be init’d in the Abstract constructor in both cases. Still needs a parameter to be set up. Could have -debug “synapse”/”compartment”/”all” and follow this through in the constructors. Needs work.