File information for pyramidal neuron simulation

LSS 8 November 2018.

***Network configuration***: -n flag, followed by filename

Calls readNetworkFromFile

@param filename: name of file from which network configuration is to be read

@return string of length number of neurons with each character being the type of the neuron (P or I currently).

Each line has from <n> <P|I>

and there has to be an entry for each n, from 1 up to number of neurons.

Note that neurons in the simulation are numbered from 0 to n-1

***Weights:***

*Driving weights*: -wd flag, followed by filename

Calls readInputsToArrayFromFile

Expects 3 values per line, read as doubles. Neuron number, synapse number, weight. Allows spaces or single commas as separators.

*Contextual weights*: -wc flag, followed by filename

Calls readInputsToArrayFromFile

Expects 3 values per line, read as doubles. Neuron number, synapse number, weight.

Allows spaces or single commas as separators

*Internal weights and delays*: -wi flag, followed by filename

Calls readInputsToArrayFromFile

Expects 5 value per line, read as doubles, presynaptic neuron, postsynaptic neuron, postsynaptic compartment, weight, delay. Allows spaces or single commas as separators.

***Inputs:***

*Driving inputs*: -d flag, followed by filename.

Calls readInputsToArrayFromFile.

Expects 3 values per line, read as doubles: neuron number, synapse number, time. Note that the system expects this to be a P neuron, and the input will go to the basal compartment.

*Contextual inputs*: -c flag, followed by filename.

Calls readInputsToArrayFromFile.

Expects 3 values per line, read as doubles: neuron number, synapse number, time. Note that the system expects this to be a P neuron, and the input will go to the apical tuft compartment.

***Output:***

Single output, -sout flag, followed by filename. Discarded if no –sout flag.

2 values per line, neuron number, time, comma separated.