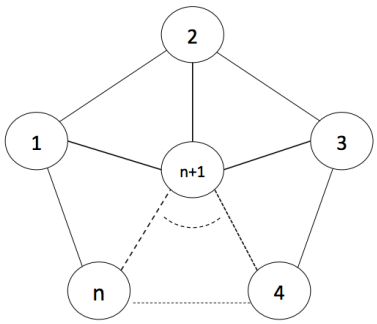
Analyzing the Number of Updates Sent

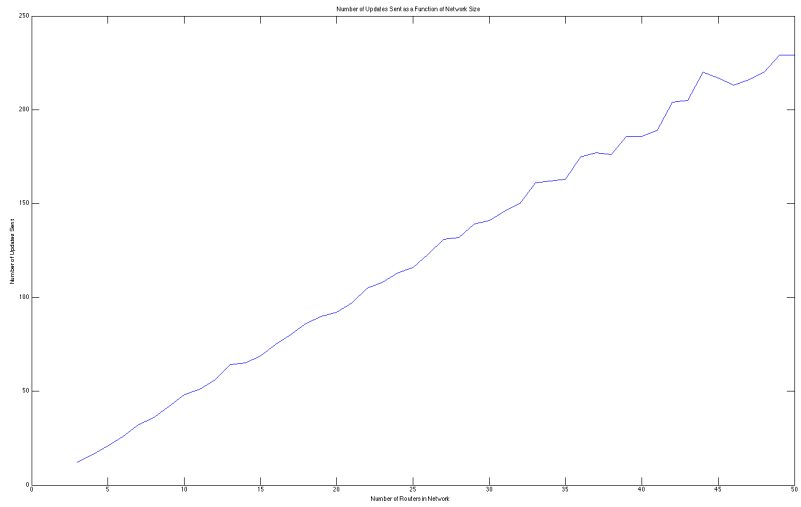
October 7, 2013

The topology used is shown below.



The total number of updates sent as a function of the number of routers in the topology is contained in the array:
[12 16 21 26 32 36 42 48 51 56 64 65 69 75 80 86 90 92 97 105 108 113 116 123 131 132 139 141 146 150 161 162 163 175 177 176 186 186 189 204 205 220 217 213 216 220 229 229]

The plot of this data is shown below.



As we can see, with my RIPRouter implementation, the number of updates sent is relatively few and grows linearly as the number of routers in the network grows. This is fantastic, as we have a convergence time that scales proportionally with the number of routers in the network.