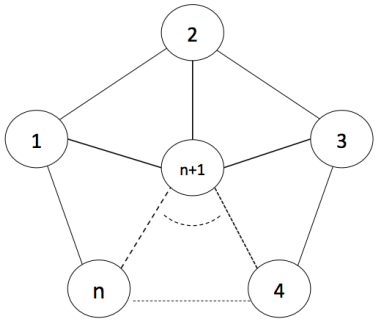
Analyzing the Number of Updates Sent

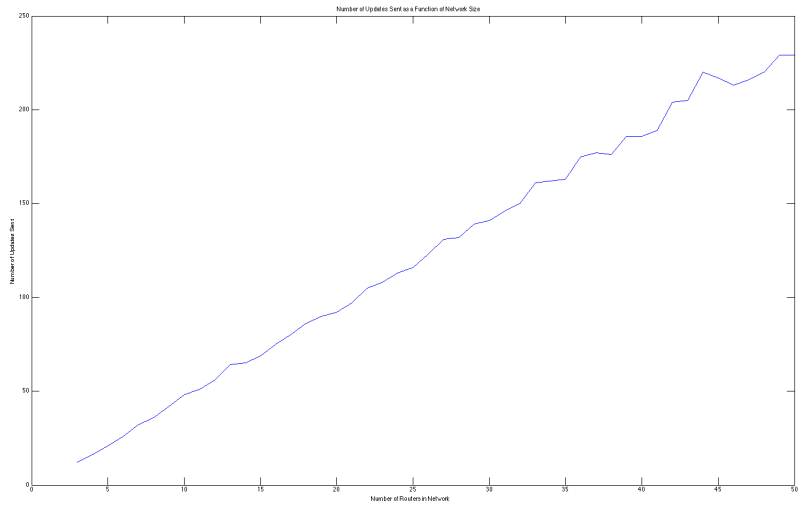
October 8, 2013

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:
[24 38 55 78 102 129 159 192 228 267 309 354 402 453 507 564 624 687 753 822 894 969 1047 1128 1212 1299 1389 1482 1578 1677 1779 1884 1992 2103 2217 2334 2454 2577 2703 2832 2964 3099 3237 3378 3522 3669 3819 3972]

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.