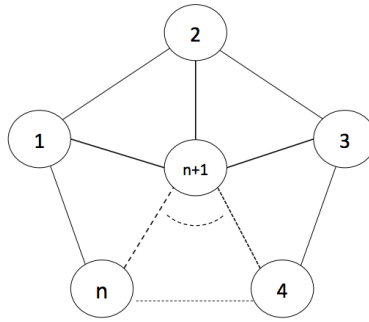


Analyzing the Number of Updates Sent

October 8, 2013

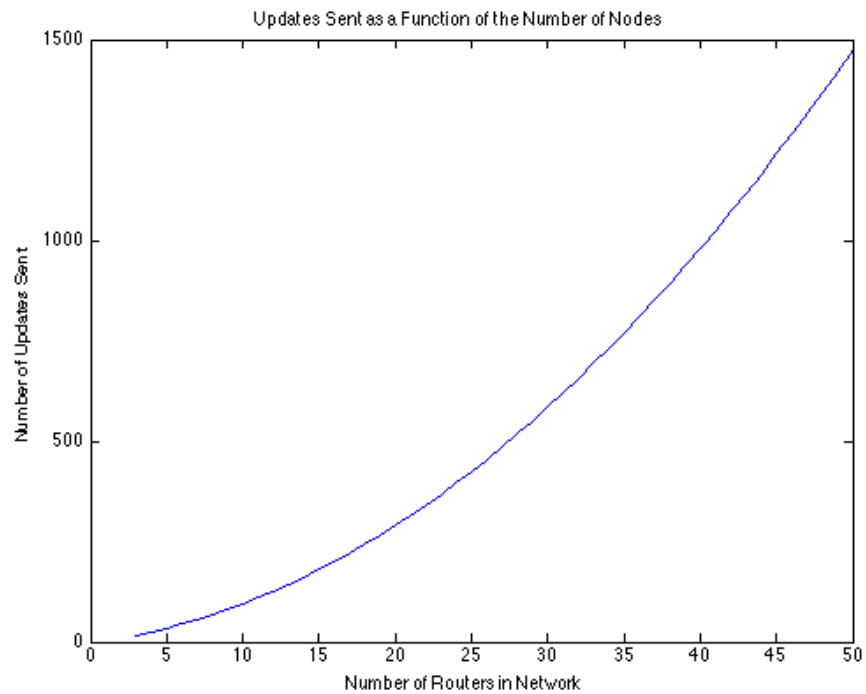
The topology used is shown below.



The total number of updates sent as a function of the number of routers in the topology is contained in the array:

[16 23 33 45 56 68 81 95 110 126 143 161 180 200 221 243 266 290 315 341 368
 396 425 455 486 518 551 585 620 656 693 731 770 810 851 893 936 980 1025
 1071 1118 1166 1215 1265 1316 1368 1421 1475]

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 quadratically as the number of routers in the network grows. For a naive implementation, this is fantastic - our growth is not out of control and we are able to converge in a short amount of time.