General Instruction

- Submit your work in the Dropbox folder via BeachBoard (Not email or in class).
- 1. (20 points) Implement a Pastry routing client in Java on your local machine.
 - If you submit the assignment 9, make sure that the server program is running on your AWS server.
 - Refer the section 3.1 of the Pastry paper. (Click here)
 - The program specification.
 - 1. Generate a random 4-digits quaternary number.
 - 2. The number is the destination Pastry ID.
 - 3. It should find the IP address of the destination Pastry ID using our Pastry system **NOT** directly from the google sheet.
 - 4. If you submit the assignment 9, use your AWS server as the first routing inquiry server. Otherwise, probe a working server from the google sheet and use it.
 - 5. It should send the request message (destination ID) to routing inquiry servers repeatedly until you find the destination server.
 - 6. It should be able to handle reply messages with white spaces. For instance, '1230:y.y.y.y ', ' 1230:y.y.y.y', ... are all valid ones.
 - 7. Records the **number of hops** from your local machine to the destination server.
 - 8. If the destination server is unreachable or NULL, then **include** the result in the record.
 - 9. If a routing inquiry server is unreachable or NULL through the routing, then **exclude** the result from the record.
 - 10. Repeat the above steps **1,000 times**.
 - Draw a histogram from your experimental data as Figure 1 and analyze it.
 - Submit the source code of the client and your analysis report.

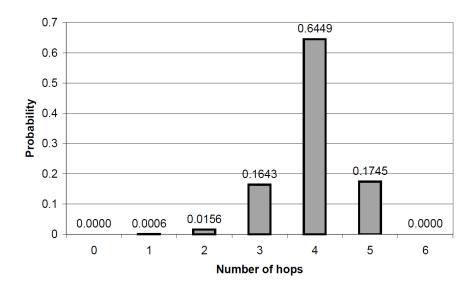


Figure 1: Probability versus number of routing hops