Report for Reading assignment on SkipNet

# Motivation

*Why is the problem addressed in the paper interesting and important for the larger community to be solved?*

# Contribution

What are the main contributions of the paper?

# Solution

How did the authors solve the problem at hand?

# Evaluation

The solution is creatively, practically, efficiently and has high commercial value. They used a simple packet-level, discrete event simulator, which counts the number of packets sent over a physical link and assigns either a unit hop count or a specified delay for each link, depending upon the topology used, to evaluate the SkipNet algorithm by compare it with Pastry and Chord. The performance characteristics of lookups are measured by Relative Delay Penalty, Physical network hops and Number of failed lookups. The solution of evaluation is convictive to prove their algorithm’s advantage, though they did not queuing delay or packet losses.

# Disadvantages of the Solution

What are the disadvantages and shortcomings of the solution given by the authors?

# Disadvantages of the Evaluation

The evaluation did not consider queuing delay or packet losses. So the result may not very accuracy.

# Further improvements

Are there any further improvements that can be made to the solution?

Are there any future directions you can think of?

# Answers of Questions

1. On the routing level (routing of lookups), how is SkipNet similar to Chord?
2. On the routing level (routing of lookups), how is SkipNet similar to Pastry?
3. How is load-balancing (in terms of placement of data and nodes through which queries are routed) different in SkipNet compared to Chord?