Progress made towards Validating the Model Week VI Presentation

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3rd day of July'18

The Claim

- Intermittent link
- Bandwidth underestimated
- RTT underestimated
- Thus underestimating throughput

Low Delay and High Variations

Parameters Chosen:

Rate: 1mbps

Delay: 1ms

Variations: 5ms, 10ms, 30ms

Rate: 100mbps

Delay: 1ms

• Variations: 5ms, 10ms, 30ms

Progress towards validating the claim

- With Rate: 1mbps, Delay: 1ms, Variations: 5ms, 10ms and 30_{ms}
- Assumption: Small Variation: 5ms, Large Variation: 30ms

Rate: 1mbps, Delay: 1ms, Variation: 5ms

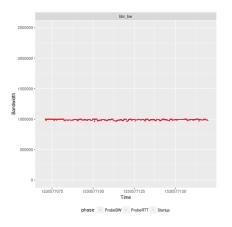


Figure: Estimated Bandwidth

Rate: 1mbps, Delay: 1ms, Variation: 10ms

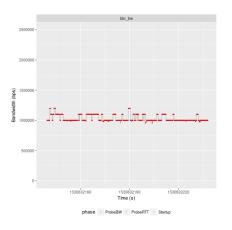


Figure: Estimated Bandwidth

Rate: 1mbps, Delay: 1ms, Variation: 30ms

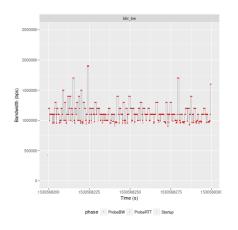


Figure: Estimated Bandwidth

3rd day of July'18

Rate: 1mbps, Delay: 1ms, Variation: 30ms

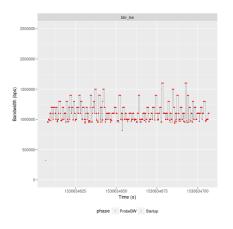


Figure: Estimated Bandwidth

Progress towards validating the claim

• With Rate: 100mbps, Delay: 1ms, Variations: 5ms, 10ms and 30_{ms}

Rate: 100mbps, Delay: 1ms, Variation: 5ms

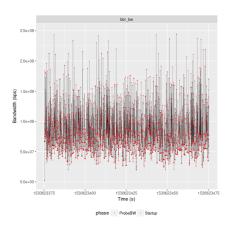


Figure: Estimated Bandwidth

Rate: 100mbps, Delay: 1ms, Variation: 10ms

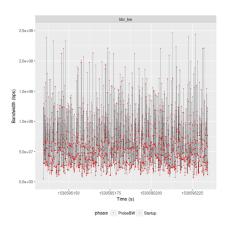


Figure: Estimated Bandwidth

Rate: 100mbps, Delay: 1ms, Variation: 30ms

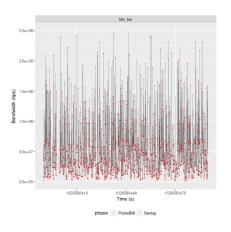


Figure: Estimated Bandwidth

Work for immediate future

- Two different rate, two different patterns.
- Vary rate with more values of delay in between to validate that bandwidth is underestimated.
- Validate that RTT is underestimated.

Questions and Suggestions

Thank You!

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