Write up

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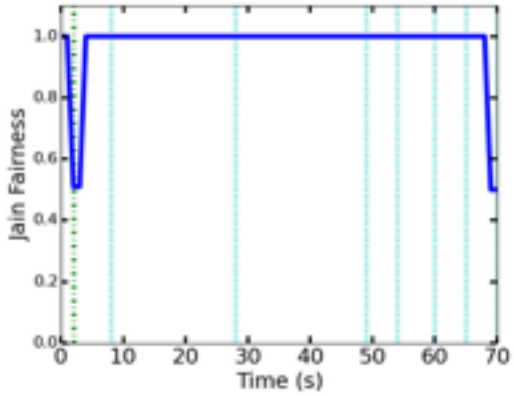
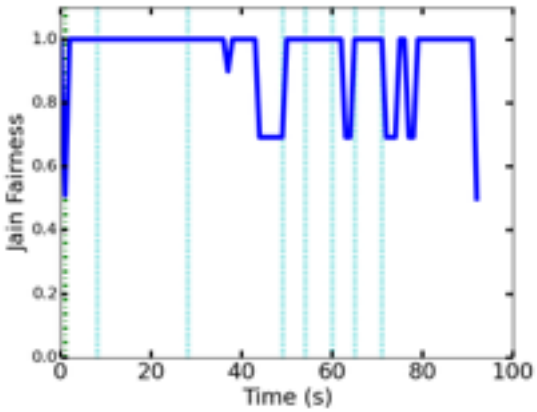
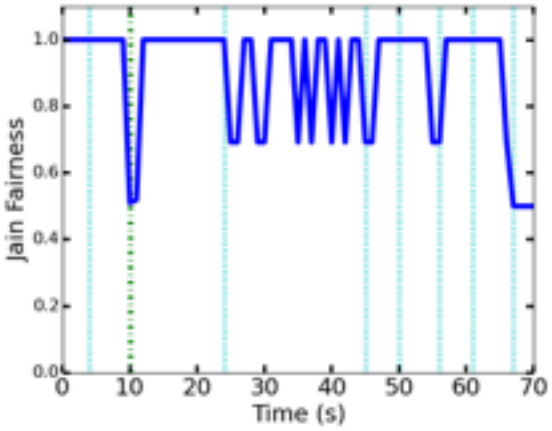
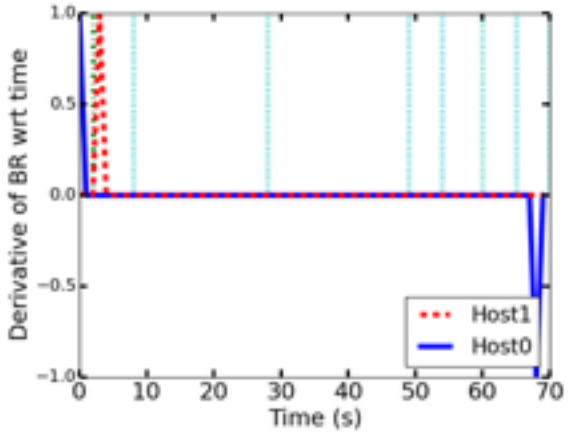
Fairness (0.1 0.5 0.9)

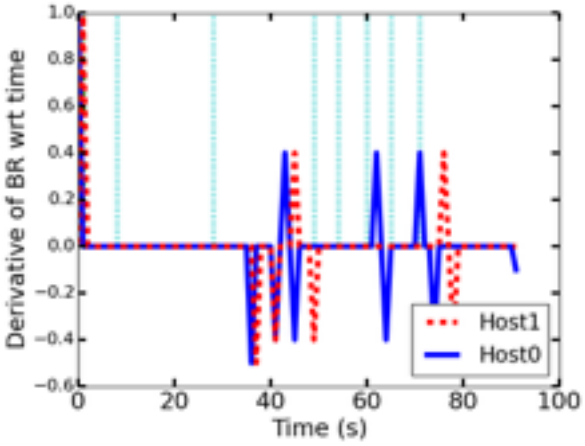


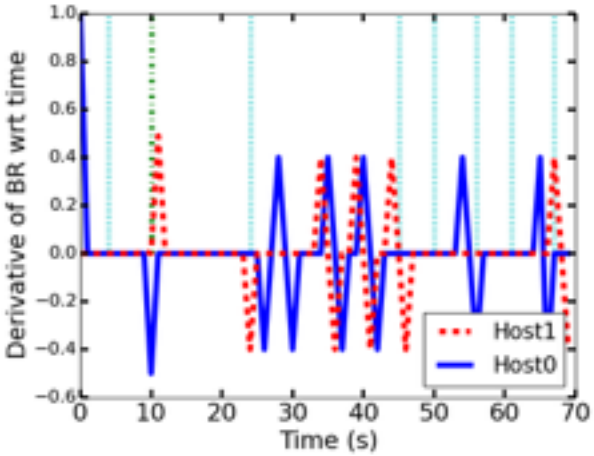




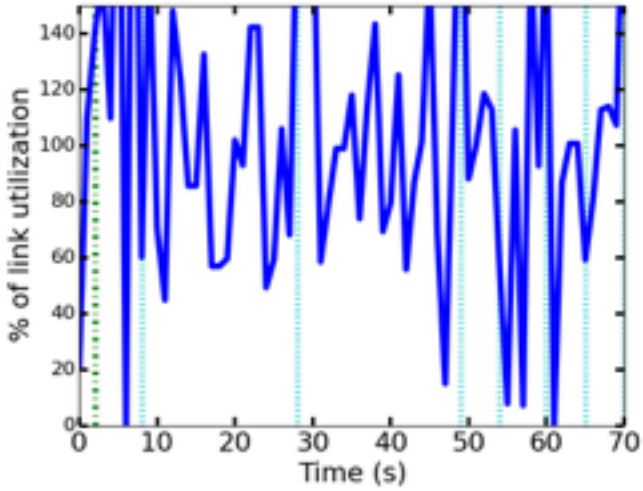
Smoothness (0.1 0.5 0.9)

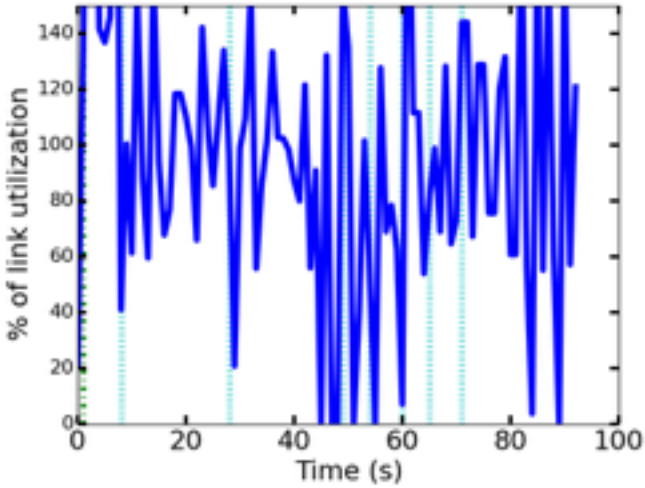


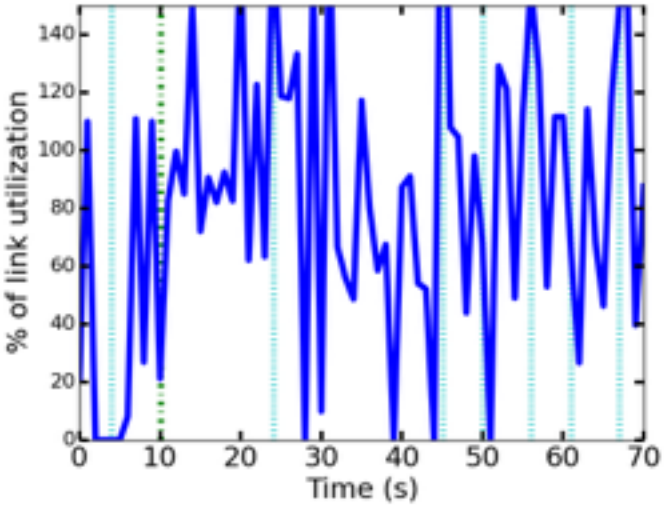




Link utilization (0.1 0.5 0.9)







Analysis

As alpha controls the tradeoff between a smooth throughput estimate (α closer to 0) and one that reacts quickly to changes, the bitrate of chunk request of each connection varies more often when alpha is larger.

Usually we observe that graphs of smaller alpha are smoother while those graphs of larger alpha value varies more often and vary in a larger range. In our cases, alpha 0.1 reaches the best performance on Jain Fairness and Smoothness.

Specially, even link utilization graph of small alpha value varies a lot and the performance of three alpha values are comparable, thus it needs more study to find a best alpha to maximize link utilization.