

Coupled congestion control for RTP media

draft-welzl-rmcat-coupled-cc-04

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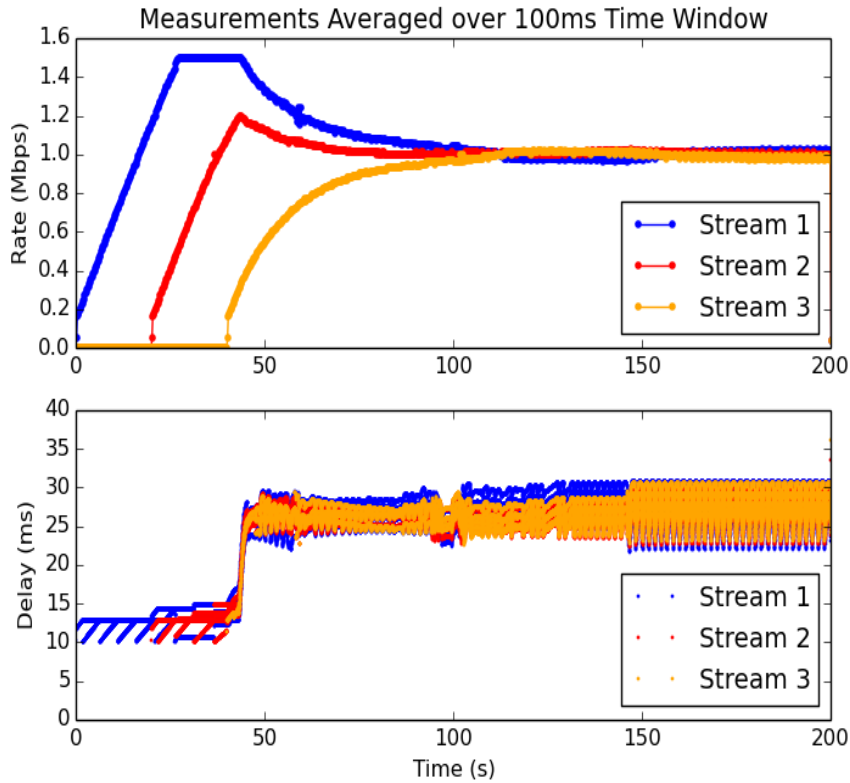
REDUCING INTERNET TRANSPORT LATENCY

RMCAT
92nd IETF Meeting
Dallas, US
26 March 2015

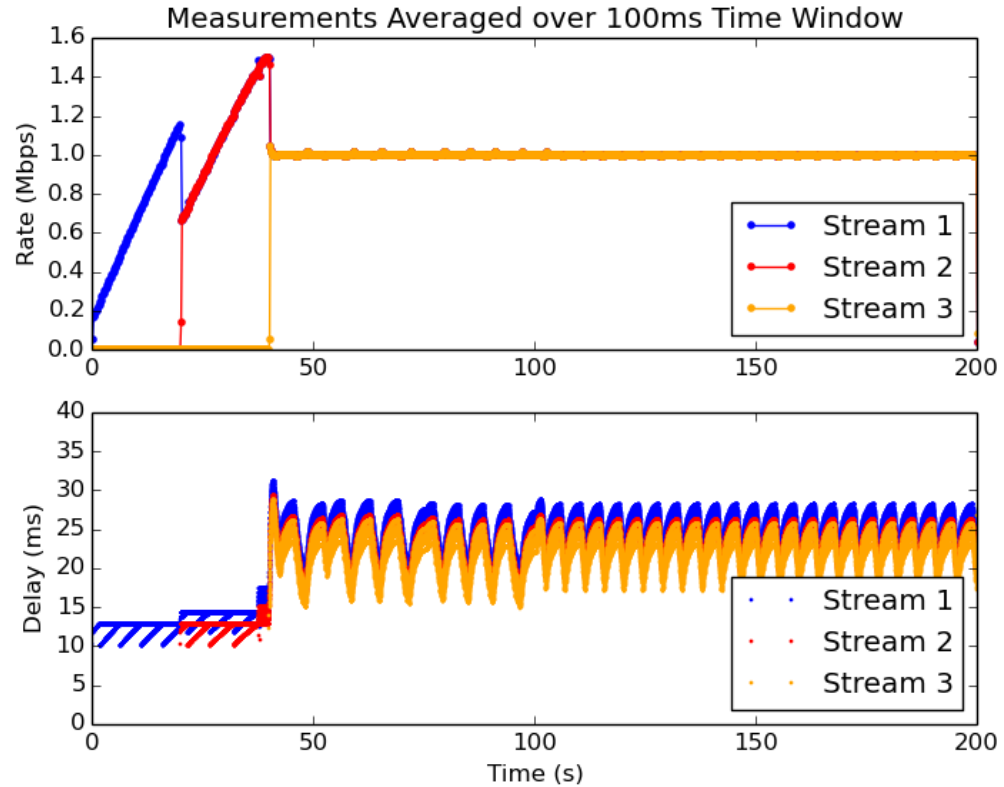
Recap

- Method to control multiple flows, designed to be as simple as possible
 - Major goal: prioritization, as per RFC7478
 - Expected side effects: delay and loss reduction
- Results so far (ns-2 simulations):
 - Prioritization always achieved. Side effects:
 - Very good with RAP (rate-based AIMD), LEDBAT
 - Okay but not impressive with TFRC (because we kept it simple, didn't update the TFRC receiver)

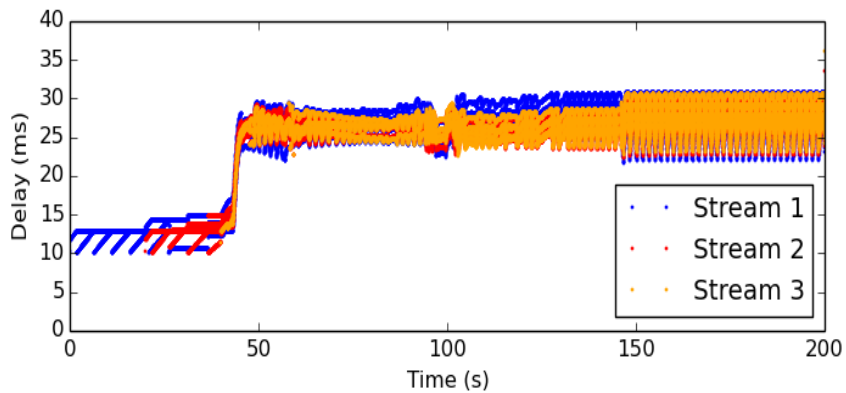
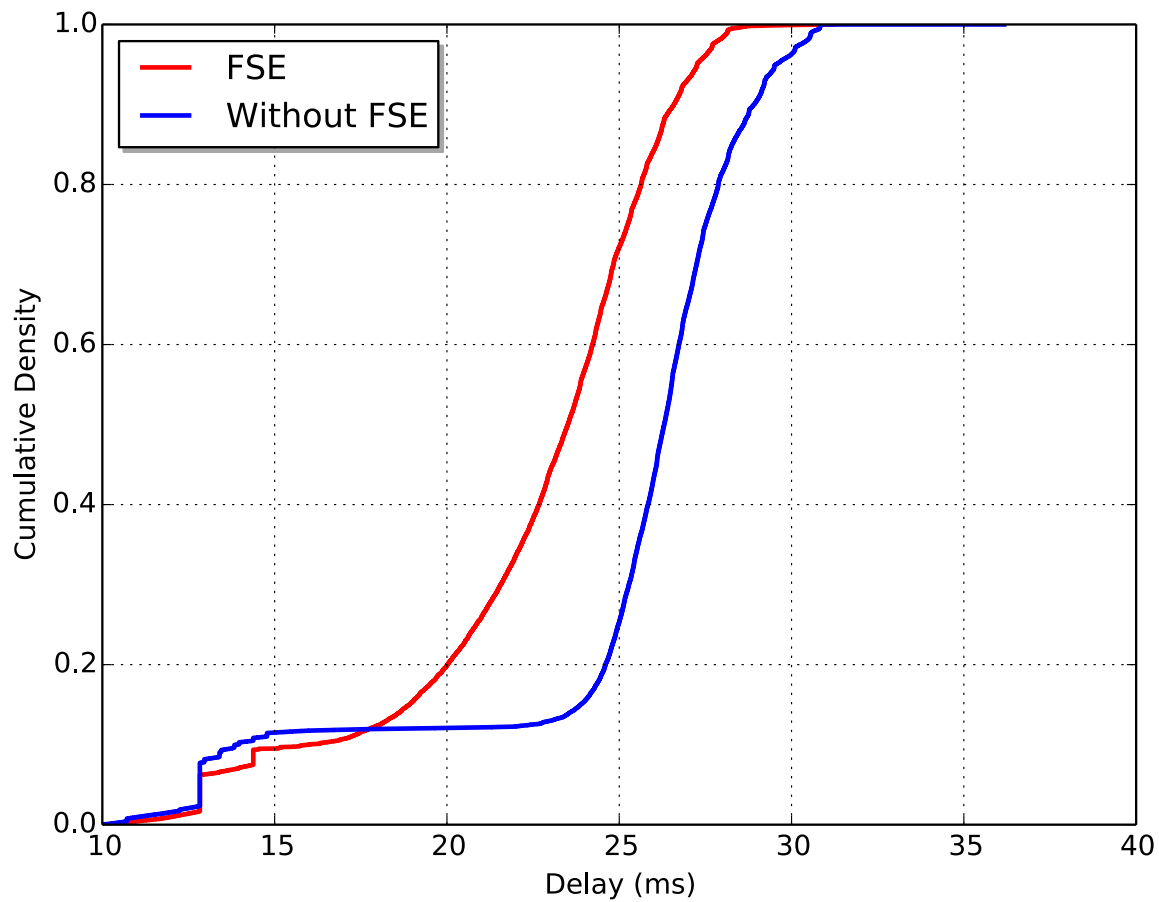
Coupled CC with Nada



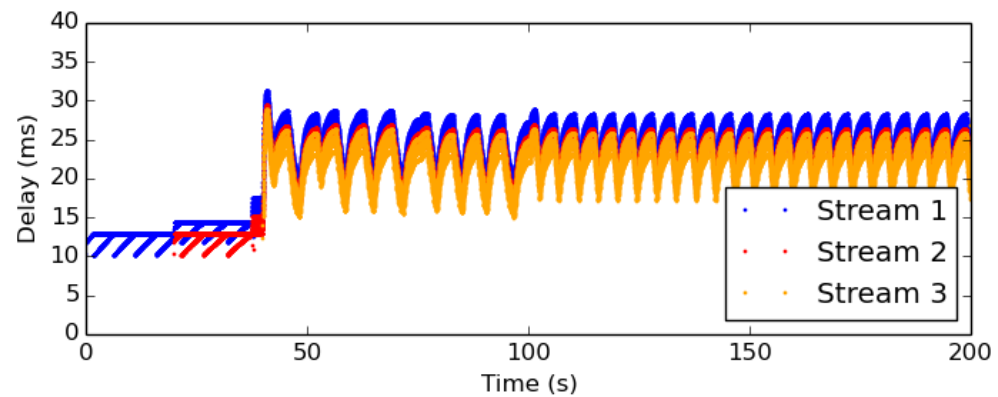
Without FSE



FSE

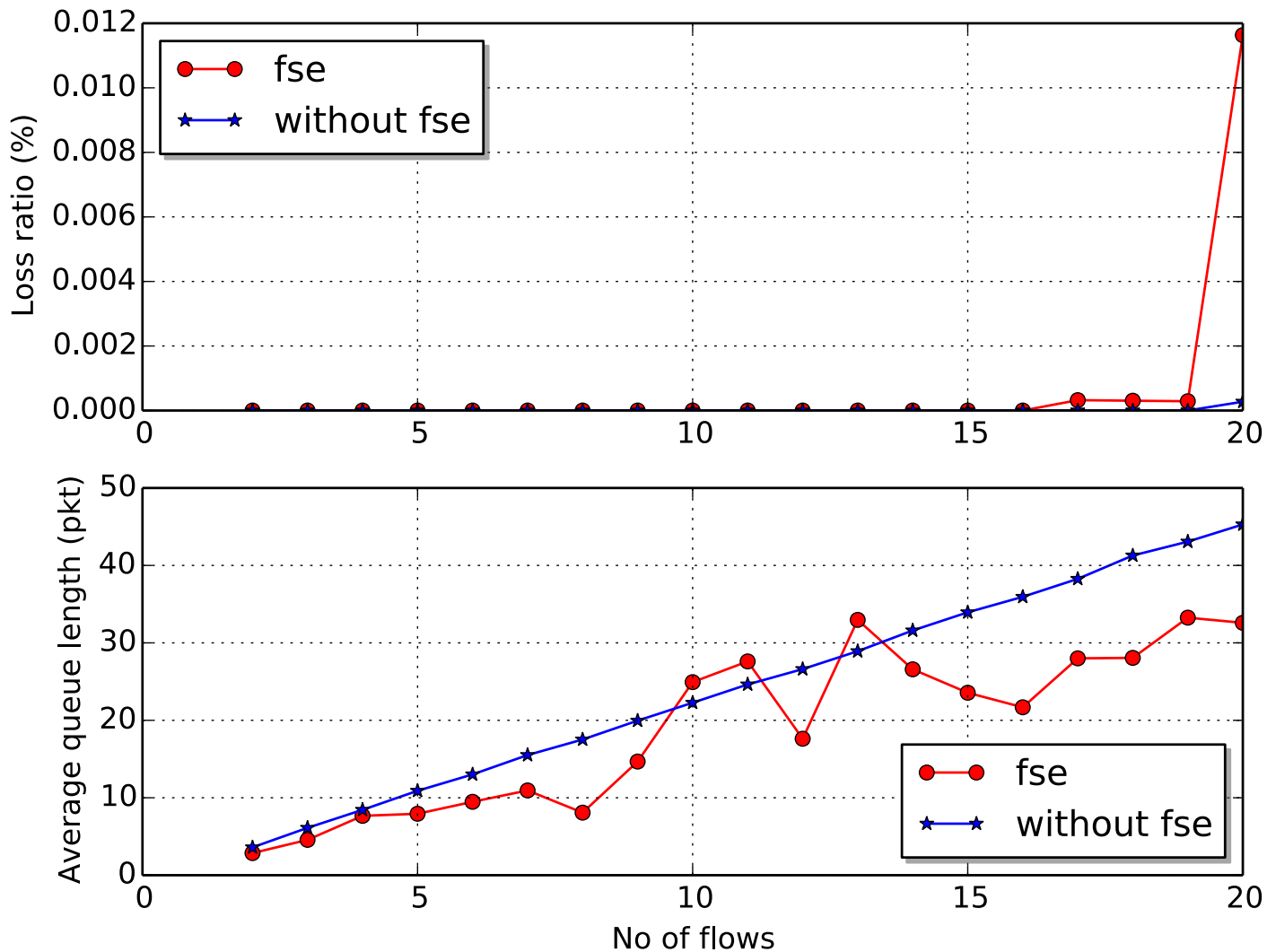


Without FSE

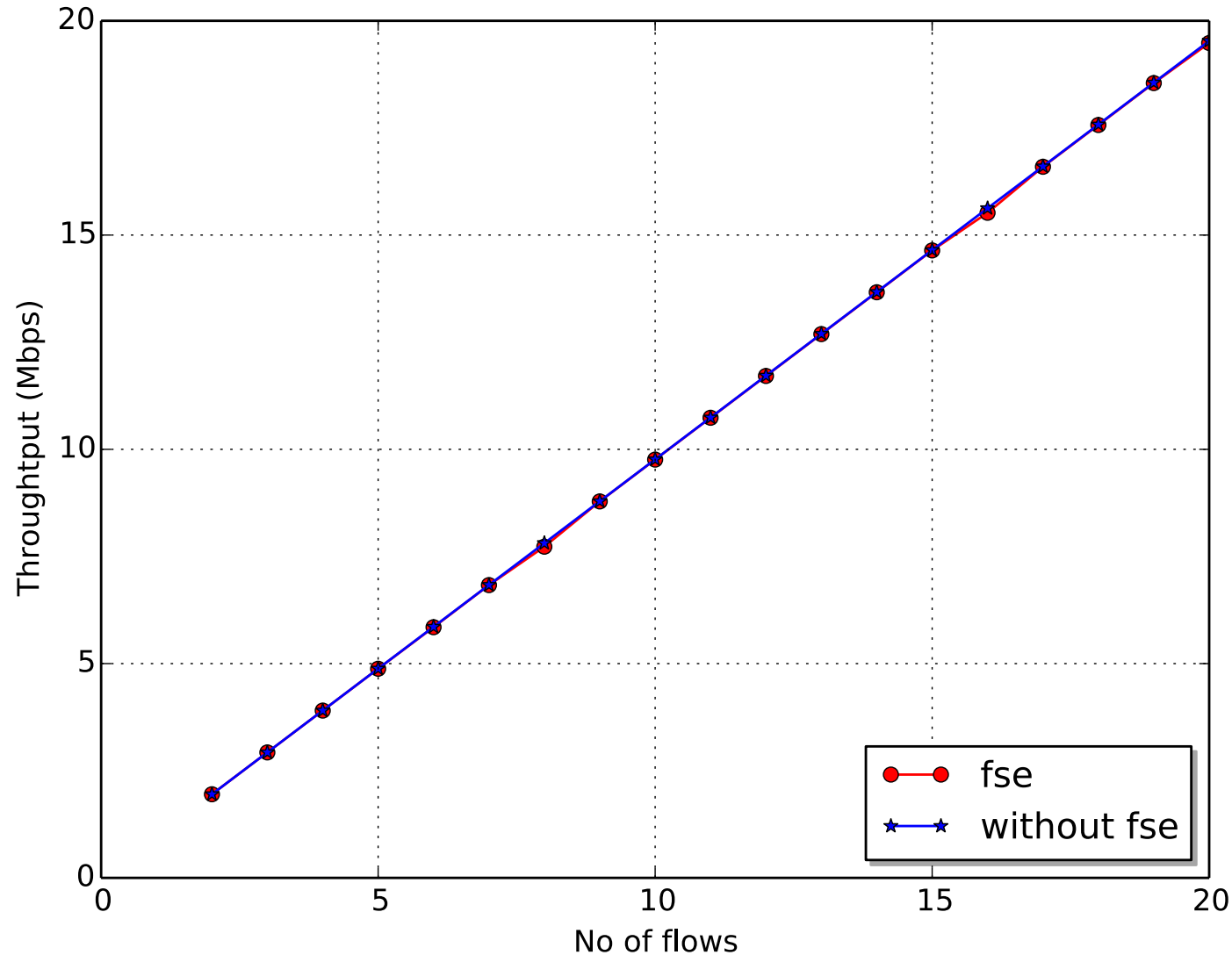


FSE

Multiple Nada Flows – Avg. Q Len and Loss Ratio



Multiple Nada Flows – Throughput



Q&A