Coupled congestion control for RTP media

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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

Measurements Averaged over 100ms Time Window

Without FSE

FSE
Multiple Nada Flows – Avg. Q Len and Loss Ratio

![Graph showing loss ratio and average queue length against number of flows with and without FSE.](image)
Multiple Nada Flows – Throughput

Graph showing the relationship between the number of flows and throughput (Mbps). The graph indicates a linear increase in throughput as the number of flows increases. Two lines are plotted: one for 'fse' and another for 'without fse'.
Q&A