Internet Congestion Control Research Group

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RG Status

- Documents
  - RFC 5783 on "Congestion Control in the RFC Series" was published in February
  - Draft on Open Issues in CC Research has needed votes from IRSG, publication request issued to IESG by IRTF chair on 14 July

- Experimental CC Specifications
  - MulTFRC: proposed for DCCP, but determined to be more appropriate for ICCRG's expertise to work on for Experimental RFC; reviews received in ICCRG, update will be presented today
  - TCP Proposals: CUBIC, H-TCP: ball is with the authors. Compound-TCP: awaiting activity from TCPM chairs.

Internet Capacity Sharing Architecture (ICSA) Design Team
Status update

- Pricise statement of transport scaling problem (in progress)
  - particularly interaction between flow start and ongoing flows
  - Flow/user/ISP isolation question
  - isolation technology (e.g. WFQ, AFD) aims to constrain multiplexing
  - flows that can time-shift (e.g. LEDBAT) cannot see when to do so
  - congestion policing aims to allow time-shifting
  - and ultimately protects any flow/user/ISP from others
  - model encompassing both in progress: to enable comparison
- Internet Capacity Sharing Architecture I-D
  - no progress (requires resolution of isolation question)
- ConEx IETF w-g chartered
  - controversy during chartering
  - guarantees strong IESG and IAB interest in an ICSA Architecture I-D
- Advert: "Congestion economics" IAB plenary, Thu pm.

Meetings

- Today's agenda
  - MulTFRC update, 10 minutes
  - News from CAIA's newtcp project -- delay-based TCP and improved instrumentation of FreeBSD's TCP stack, 10 minutes
  - TCP modifications to reduce thin-stream latency, Andreas Petlund, 20 minutes
  - Seeding TCP retransmission timer using SYN/SYNACK RTT sample, Yu-chung Cheng, 15 minutes
  - A Simulation Study on Increasing TCP's IW - Preliminary Results, Ilpo Jaervinen, 30 minutes
  - Scaling IW with Internet scale, Matt Mathis, 10 minutes
  - Increasing TCP's Initial Window, Nandita Dukkipati, 45 minutes

- Next meeting (tentative)
  - probably co-located with PFLDNet (dates tbd),
    Franklin & Marshall College in Lancaster, Pennsylvania