Hackathon update IETF-118: Careful Resume for QUIC

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Careful Resume for QUIC

- Transport method to increase cwnd at start-up
- Based on saved path RTT and capacity/cwnd
- Gets up to speed faster than Slow Start
- Tools to visualise congestion and CR-specific parameters

draft-ietf-tsvwg-careful-resume
Hackathon Progress

- Added qlog support to track CR state changes
- Implemented CR for Cubic in Cloudflare Quiche
- Others added tests with PicoQUIC and Quicly
- Tested a CR-enabled server with various clients

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Next steps

• Continue implementation efforts

• Validate the method in different network scenarios
  
  • Test the recovery algorithm after CR into congested bottlenecks

• Develop a test server that caches, then uses, saved cwnd and RTT information to perform CR for connecting clients