

Transport Working Group

George Neville-Neil

Why?

- Coordination of research and advancement
- Long standing bugs
- New RFCs
- Vendor Demand
- Distributed Systems are Hard (tm)
- Because Scott Long asked me to do it

What

- Weekly Hangout
 - Email me for details
- transport@ mailing list
- <https://wiki.freebsd.org/TransportProtocols>
 - Meeting Notes
 - RFC list
 - Bug Pointers

Who

Kevin Bowling

Julien Charbon

Jason Eggleston

Andrew Gallatin

Scott Long

Jonathan Looney

Warner Losh

Mathew Macy

Randall Stewart

Hannes Mehnert

George Neville-Neil

Hiren Panchasara

Mike Peterson

Benno Rice

Randall Stewart

Ryan Stone

Robert Watson

Nigel Williams

Jason Wolfe

Bjoern Zeeb

Recent Topics

- Congestion Window
- Fast Retransmit vs. Congestion Control
- Updates to the SACK code
- Compliance with Modern RFCs
- Testing and Validation

Congestion Window

- Cutting cwnd 1 mss on any loss
- Under utilizing the link
- Updated by RFCs as well
 - RFC 5681
 - RFC 6675
- Ongoing work

In Flight Calculation

- Need to know how full the network is
- Previously underestimated
- Fixed by Hiren in 290122
 - Randall Stewart, Jason Eggleston
- Available via a sysctl (tcp_do_rfc6675_pipe)

Call for Participation

- What are we missing?
- Join the `transport@` mailing list.
- Email `gnn@` if you want to join the calls.