

Copycat & Tracebox: Status update

Korian Edeline (ULG)



measurement and architecture for a middleboxed internet

measurement

architecture

experimentation

This project has received funding from the European Union's Horizon 2020 research and innovation programme

under grant agreement No 688421. The opinions expressed and arguments employed reflect only the authors'

view. The European Commission is not responsible for any use that may be made of that information.



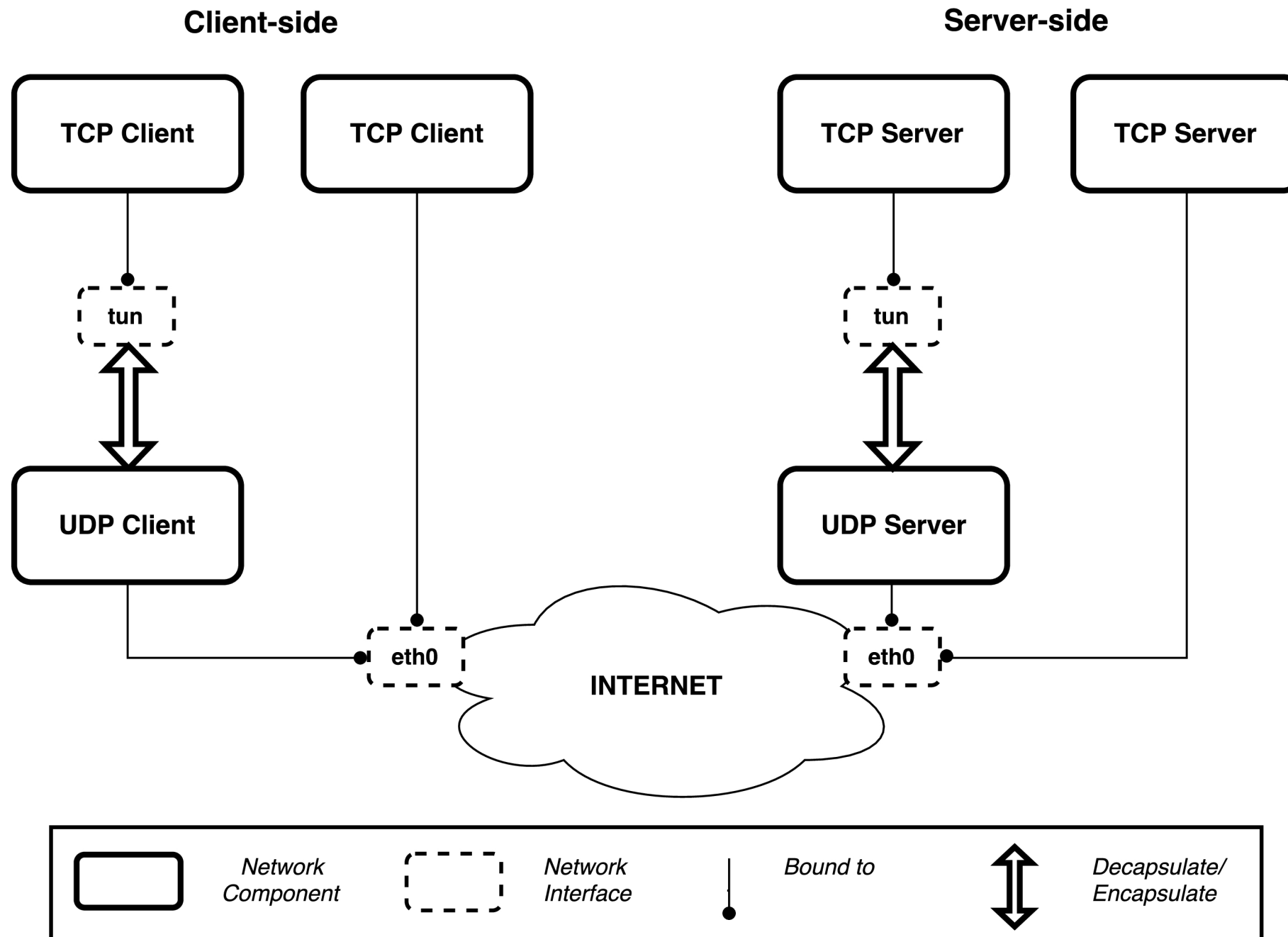


Copypcat

- UDP encapsulation to circumvent MB impairments (SCTP, QUIC, SPUD)
- Does the path discriminate flows based on transport ?
- Study with Copypcat:
 - Differential treatment (Connectivity, QoS, ...)
 - Is UDP Internet less ossified ?



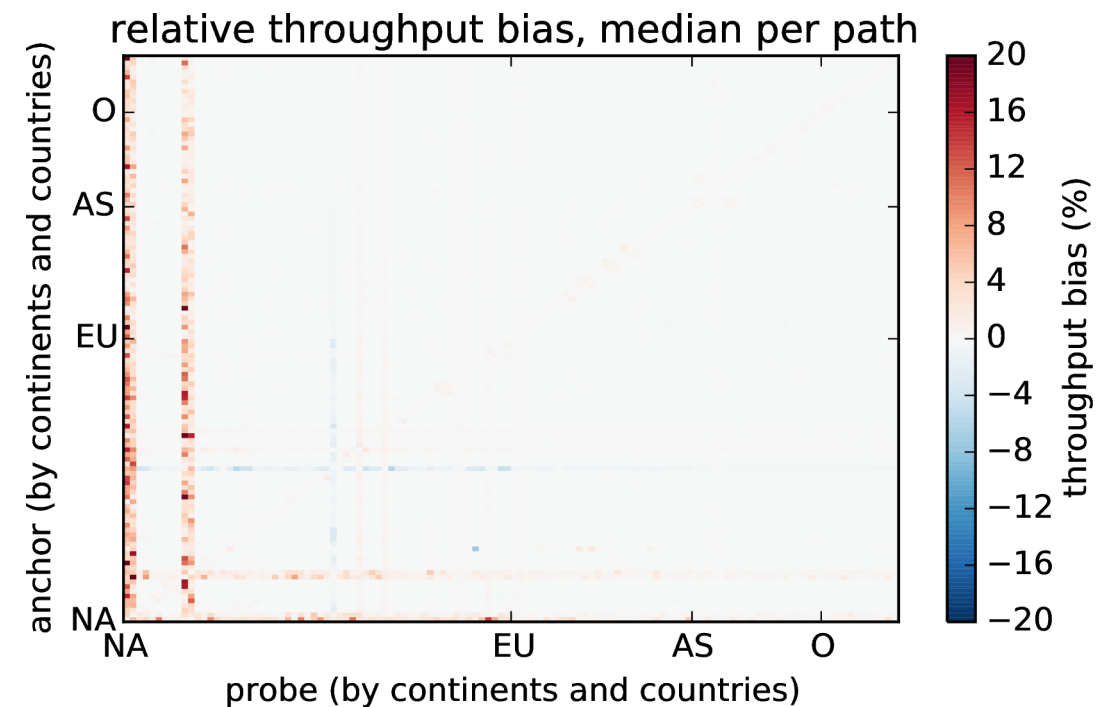
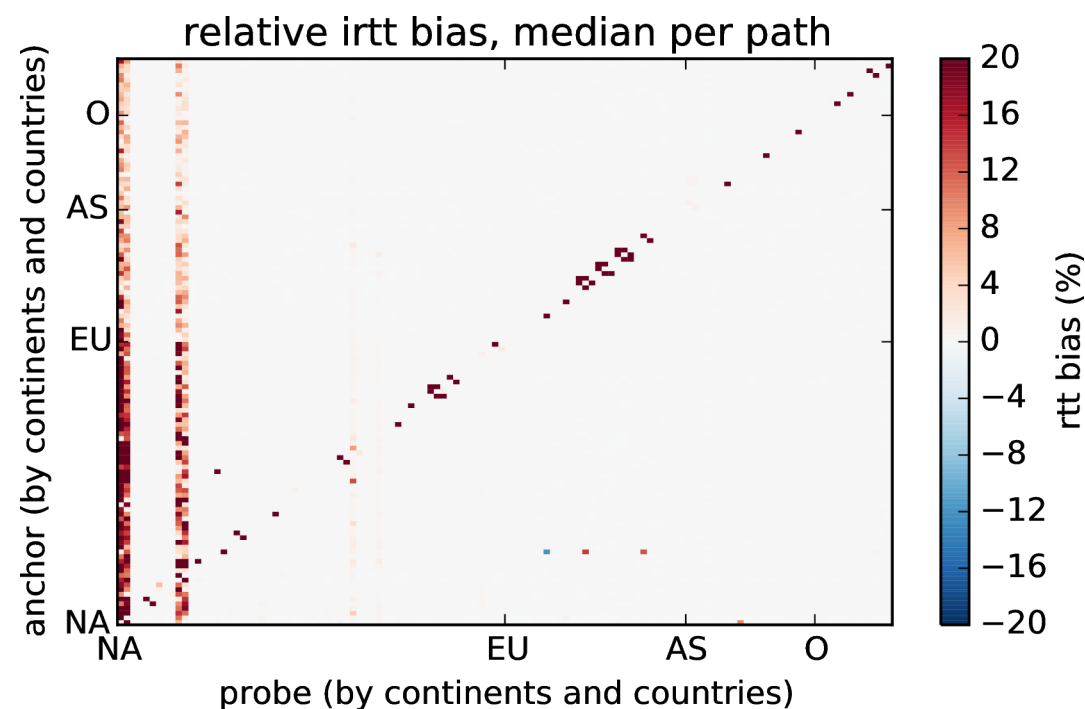
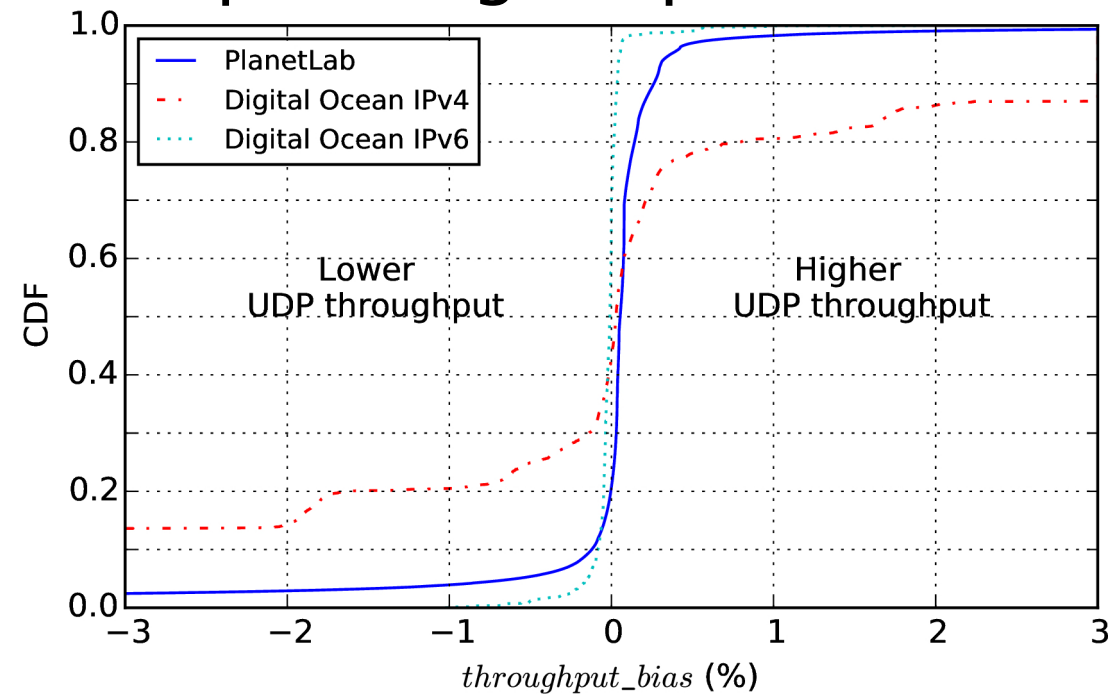
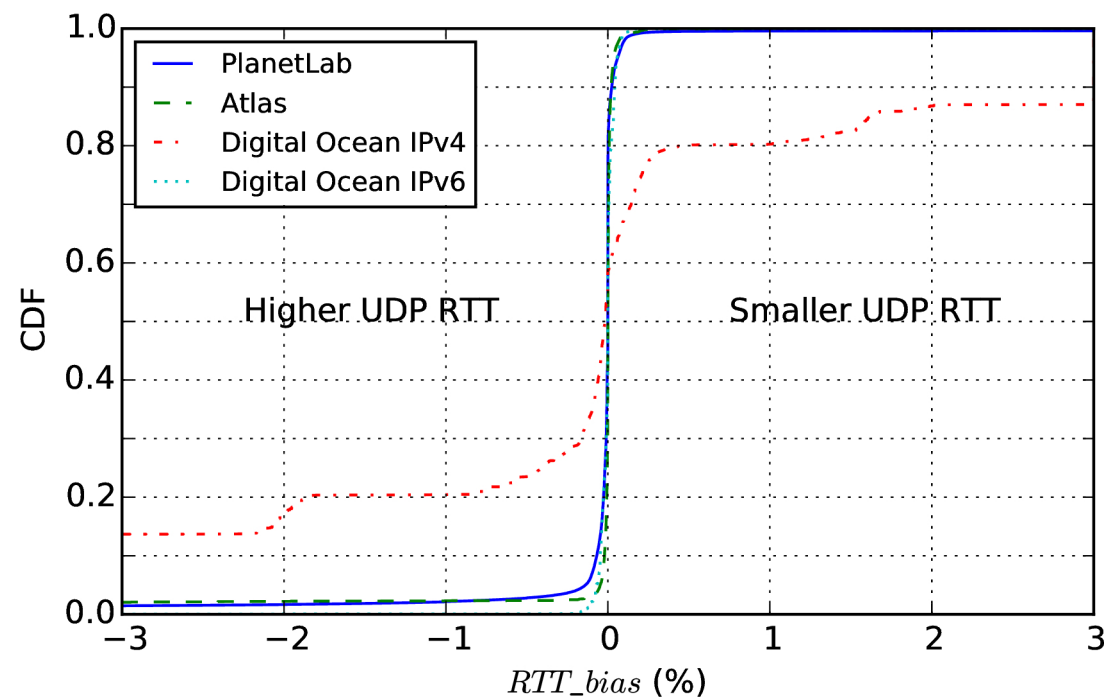
Copypcat





Copycat Results (UDP vs TCP)

- UDP connection bias: -1% to -5% depending on ports





Next Steps

- NORNET / MONROE
- Ark
- Network bias (IPv4 vs IPv6)



Current Tracebox deployment

- Collected data:
 - PlanetLab (Alexa TOP 1M, Mars 2016 to May 2016, July 2016 to ...)
- Being-collected data:
 - Ark (IPv6)
- To-Be-Collected data:
 - RIPE Atlas
- Would-Like-To-Collect data:
 - MONROE



Tracebox

- MB detection & localization
- WP2
- Next Steps:
 - Analysis (Observatory ?)
 - PAM16