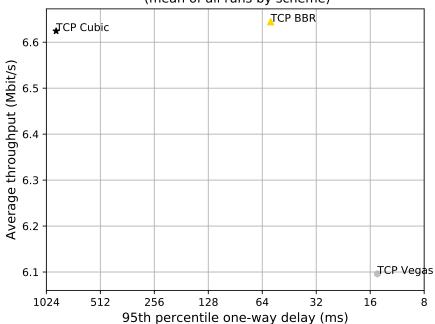
Pantheon Report

Generated at 2025-04-19 02:25:18 (UTC).

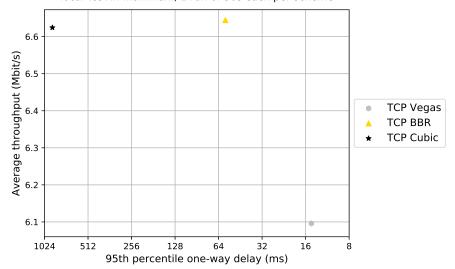
Tested in mahimahi: mm-link 50mbps.trace 50mbps.trace Repeated the test of 3 congestion control schemes once. Each test lasted for 30 seconds running 1 flow. System info: Linux 5.4.0-150-generic net.core.default_qdisc = fq net.core.rmem_default = 212992 $net.core.rmem_max = 212992$ net.core.wmem_default = 212992 $net.core.wmem_max = 212992$ net.ipv4.tcp_rmem = 4096 131072 6291456 $net.ipv4.tcp_wmem = 4096 16384 4194304$ Git summary: branch: master @ 23e738ce5acae1d36e321886cd613b0b9401ac11 third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519 third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9 third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4 M makefile third_party/indigo @ 463d89b09699a57bfdfbae351646df6a60040b90 third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1 third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42 third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2 third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26 third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494 third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

local test in mahimahi, 1 run of 30s each per scheme (mean of all runs by scheme)



local test in mahimahi, 1 run of 30s each per scheme



		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate $(\%)$
scheme	# runs	flow 1	flow 1	flow 1
TCP Cubic	1	6.62	903.41	3.95
TCP BBR	1	6.64	57.45	0.09
TCP Vegas	1	6.10	14.60	0.04
		•		

Run 1: Statistics of TCP Cubic

Start at: 2025-04-19 02:21:15 End at: 2025-04-19 02:21:45

Below is generated by plot.py at 2025-04-19 02:24:44

Datalink statistics
-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 6.62 Mbit/s (13.2% utilization) 95th percentile per-packet one-way delay: 903.410 ms

Loss rate: 3.95%

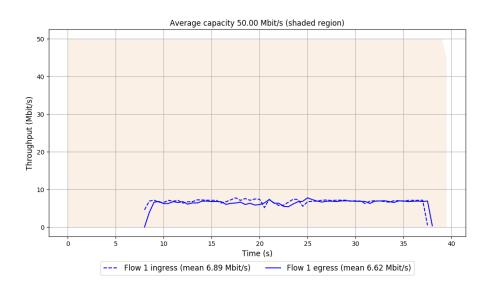
-- Flow 1:

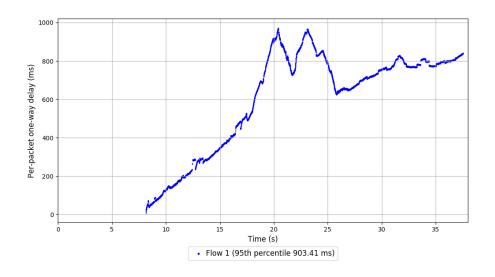
Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 903.410 ms

Loss rate: 3.95%

Run 1: Report of TCP Cubic — Data Link





Run 1: Statistics of TCP BBR

Start at: 2025-04-19 02:22:09 End at: 2025-04-19 02:22:39

Below is generated by plot.py at 2025-04-19 02:24:52

Datalink statistics
-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 6.64 Mbit/s (13.3% utilization) 95th percentile per-packet one-way delay: 57.452 ms

Loss rate: 0.09%

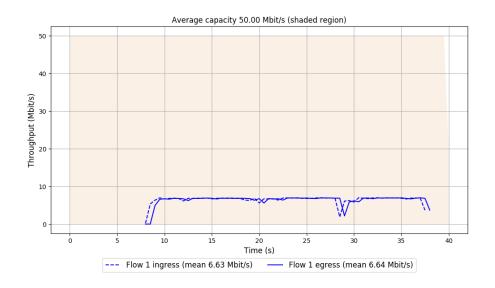
-- Flow 1:

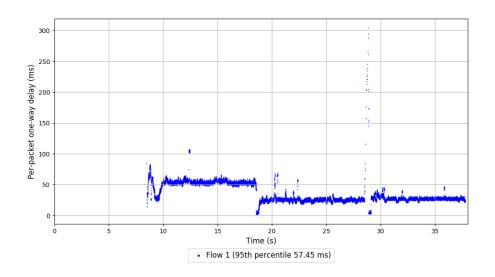
Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 57.452 ms

Loss rate: 0.09%

Run 1: Report of TCP BBR — Data Link





Run 1: Statistics of TCP Vegas

Start at: 2025-04-19 02:23:04 End at: 2025-04-19 02:23:34

Below is generated by plot.py at 2025-04-19 02:24:59

Datalink statistics
-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 6.10 Mbit/s (12.2% utilization) 95th percentile per-packet one-way delay: 14.601 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 14.601 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link

