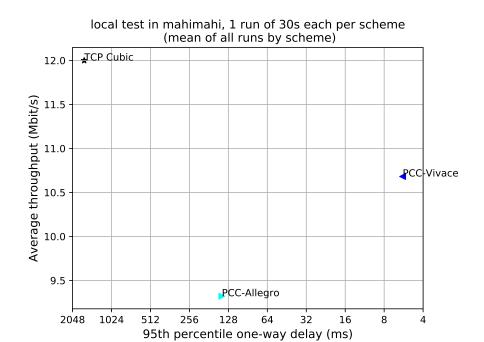
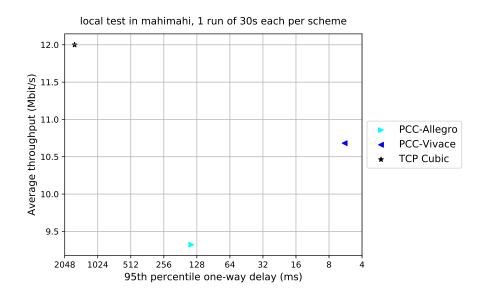
Pantheon Report

Generated at 2022-04-13 06:05:54 (UTC). Tested in mahimahi: mm-link 12mbps.trace 12mbps.trace Repeated the test of 5 congestion control schemes once. Each test lasted for 30 seconds running 1 flow. System info: Linux 4.15.0-175-generic net.core.default_qdisc = fq_codel 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 @ 99ce503a4b7f0c69e0a7c7e25dfa3753c361252a third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519 third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9 third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4 third_party/indigo @ 463d89b09699a57bfdfbae351646df6a60040b90 third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1 M receiver/src/buffer.h M receiver/src/core.cpp M sender/src/buffer.h M sender/src/core.cpp third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42 third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2 M src/ScreamClient M src/ScreamServer third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26 M src/examples/cellsim.cc M src/examples/sproutbt2.cc M src/network/sproutconn.cc third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494 M src/verus.hpp M tools/plot.py third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4 third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851





		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
scheme	# runs	flow 1	flow 1	flow 1
TCP BBR	0	N/A	N/A	N/A
TCP Cubic	1	12.00	1664.63	2.96
PCC-Allegro	1	9.32	143.87	1.18
TCP Vegas	0	N/A	N/A	N/A
PCC-Vivace	1	10.68	5.76	0.01
	'	'		•

Run 1: Statistics of TCP BBR

Start at: 2022-04-13 06:03:05 End at: 2022-04-13 06:03:35

Run 1: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of TCP Cubic

Start at: 2022-04-13 06:04:12 End at: 2022-04-13 06:04:42

Below is generated by plot.py at 2022-04-13 06:05:53

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 12.00 Mbit/s (100.0% utilization) 95th percentile per-packet one-way delay: 1664.635 ms

Loss rate: 2.96%

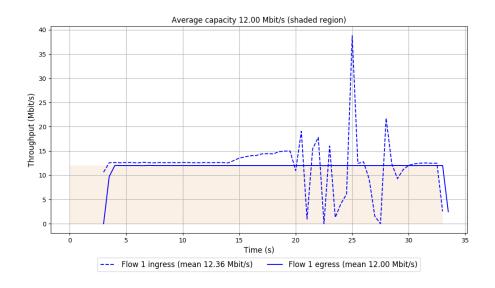
-- Flow 1:

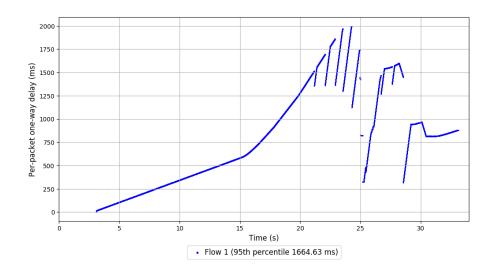
Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 1664.635 ms

Loss rate: 2.96%

Run 1: Report of TCP Cubic — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2022-04-13 06:01:58 End at: 2022-04-13 06:02:28

Below is generated by plot.py at 2022-04-13 06:05:53

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 9.32 Mbit/s (77.7% utilization) 95th percentile per-packet one-way delay: 143.866 ms

Loss rate: 1.18%

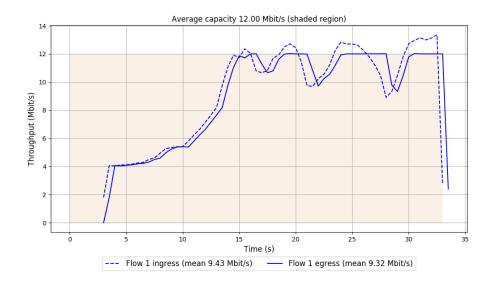
-- Flow 1:

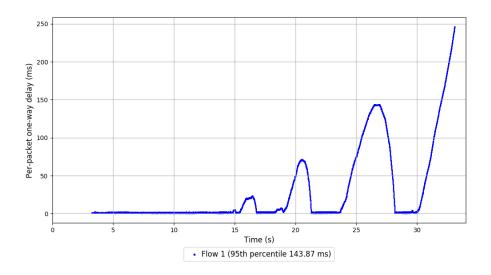
Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 143.866 ms

Loss rate: 1.18%

Run 1: Report of PCC-Allegro — Data Link





Run 1: Statistics of TCP Vegas

Start at: 2022-04-13 06:02:31 End at: 2022-04-13 06:03:01

Run 1: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

Start at: 2022-04-13 06:03:38 End at: 2022-04-13 06:04:08

Below is generated by plot.py at 2022-04-13 06:05:53

Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 10.68 Mbit/s (89.0% utilization) 95th percentile per-packet one-way delay: 5.761 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 5.761 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link

