

Pantheon Report

Generated at 2020-02-29 07:01:15 (UTC).

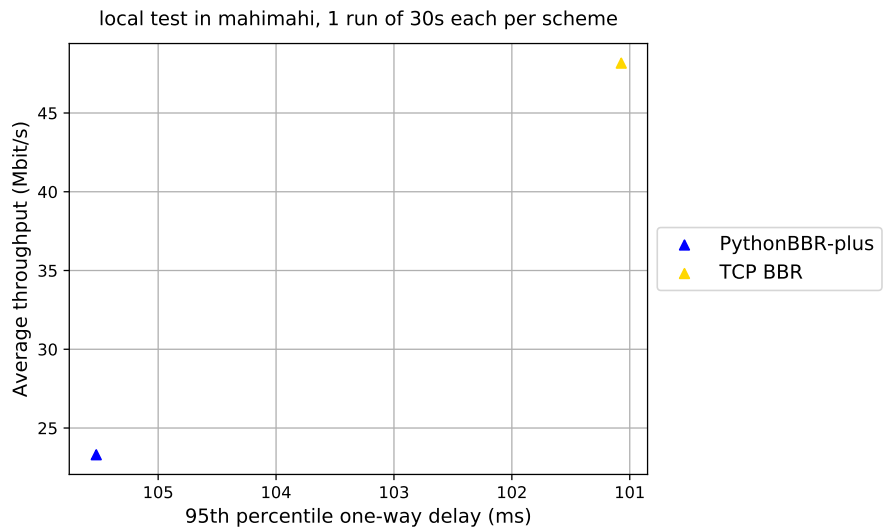
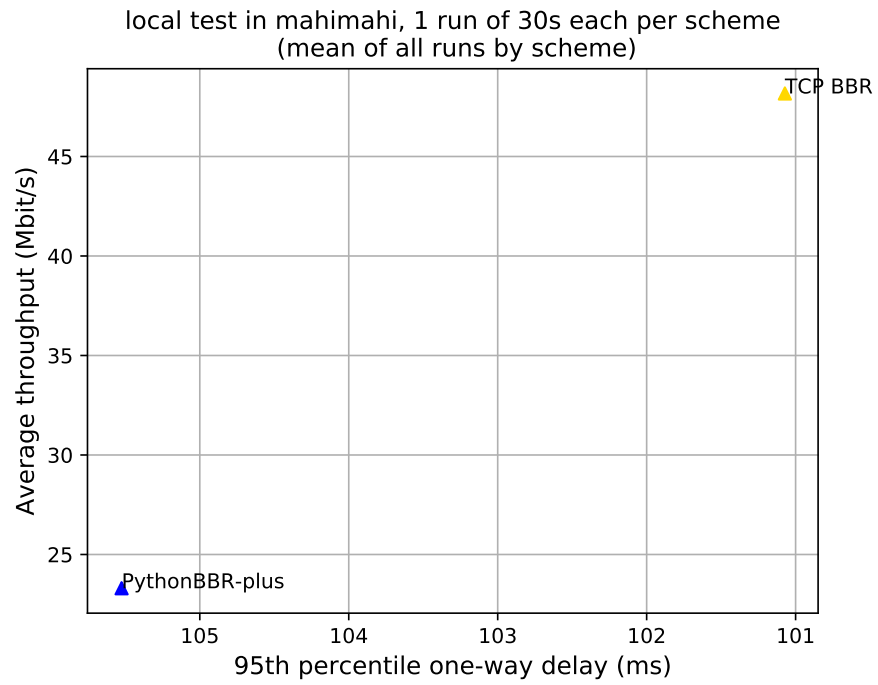
Tested in mahimahi: mm-delay 40 mm-link 50mbps.trace 50mbps.trace
--uplink-queue=droptail --uplink-queue-args=packets=300
Repeated the test of 2 congestion control schemes once.
Each test lasted for 30 seconds running 1 flow.

System info:

Linux 5.3.0-26-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 @ d435662f23dde151f7eac1146902c63644d5f1e5
third_party/aurora @ f3e943d61015b39960854ba6391797e0c7984d74
third_party/aurora-model @ e292c316c23fb837255c4e142e40590d154bbe95
third_party/eagle-plus @ 8a898299012022e9eb279dd38afd891e7fa67ee6
M net-em/net-em/net_em/envs/net_em_env.py
third_party/eagle-v1 @ c68d985e042be5c30704c0aee48c363861951a95
third_party/eagle-v2 @ c8a1737b3c84d7d49eada5b8785045d272a70120
third_party/eagle-v3 @ 50d676bd6e47e3e29a3ce914a6e50b2c6f15136b
M sender-receiver/sender-receiver/sender_receiver/__pycache__/__init__.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/__init__.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/datagram_pb2.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/helpers.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/project_root.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/receiver.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/__pycache__/sender_receiver_env.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/connect-Eagle/connect-Eagle/Sender.cpython-36.pyc
M sender-receiver/sender-receiver/sender_receiver/envs/experts/python_bbr.py
M sender-receiver/sender-receiver/sender_receiver/envs/logs/action_prob_logs.txt
M sender-receiver/sender-receiver/sender_receiver/envs/logs/log.txt
D sender-receiver/sender-receiver/sender_receiver/envs/models/training_models/model-xentrop.cpython-36.pyc
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D sender-receiver/sender-receiver/sender_receiver/envs/models/training_models/model-xentrop.cpython-36.pyc



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	1	48.17	101.07	0.97
PythonBBR-plus	1	23.30	105.53	0.80

Run 1: Statistics of TCP BBR

Start at: 2020-02-29 06:59:39

End at: 2020-02-29 07:00:09

Below is generated by plot.py at 2020-02-29 07:01:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 48.17 Mbit/s (96.3% utilization)

95th percentile per-packet one-way delay: 101.072 ms

Loss rate: 0.97%

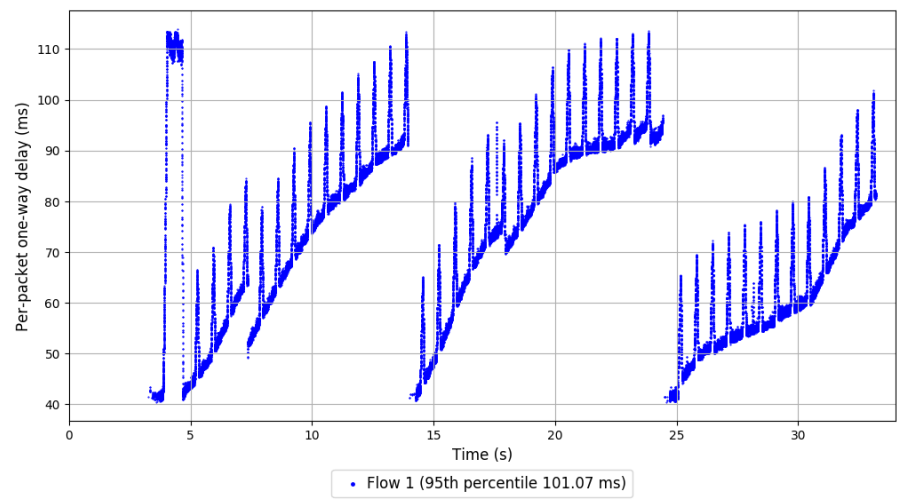
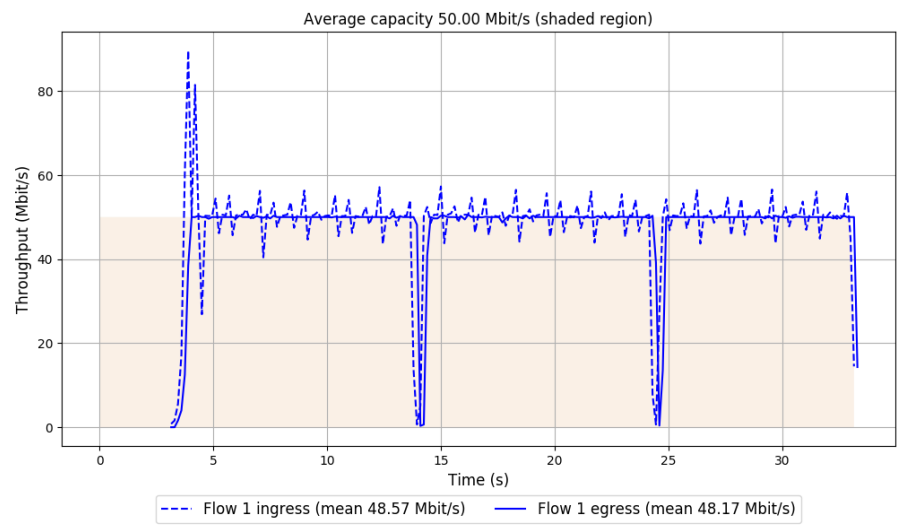
-- Flow 1:

Average throughput: 48.17 Mbit/s

95th percentile per-packet one-way delay: 101.072 ms

Loss rate: 0.97%

Run 1: Report of TCP BBR — Data Link



Run 1: Statistics of PythonBBR-plus

Start at: 2020-02-29 06:59:03

End at: 2020-02-29 06:59:33

Below is generated by plot.py at 2020-02-29 07:01:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 23.30 Mbit/s (46.6% utilization)

95th percentile per-packet one-way delay: 105.525 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 105.525 ms

Loss rate: 0.80%

Run 1: Report of PythonBBR-plus — Data Link

