

Pantheon Report

Generated at 2020-02-29 08:30:35 (UTC).

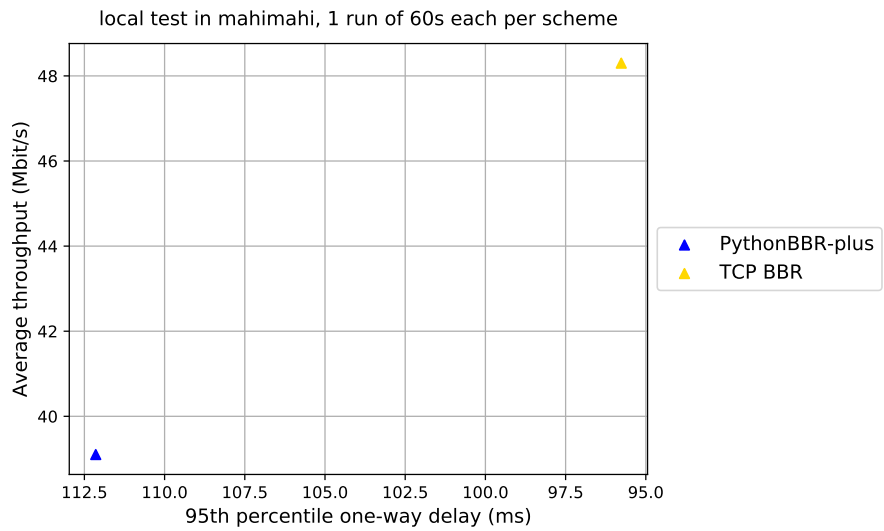
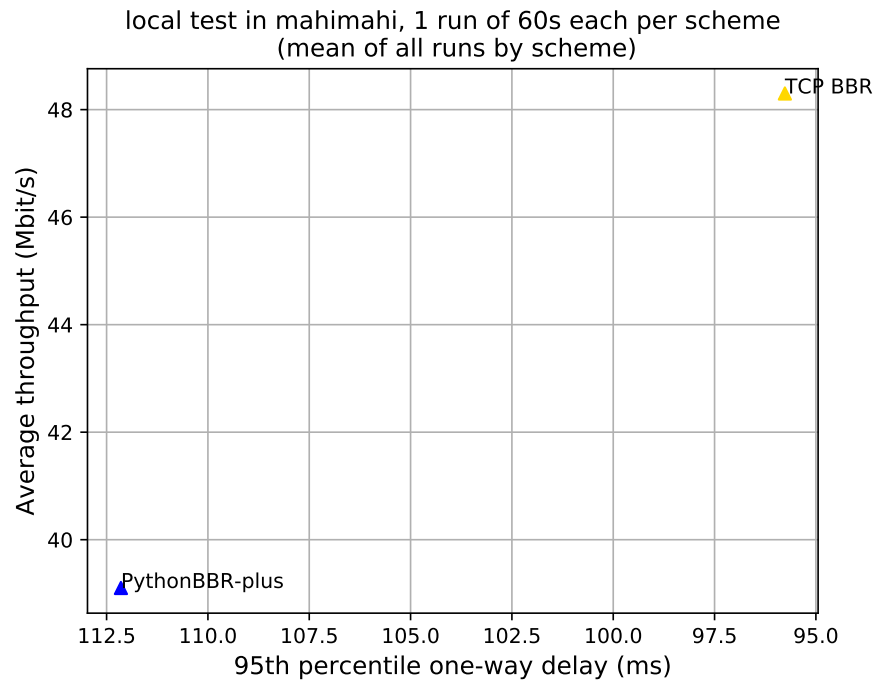
Tested in mahimahi: mm-delay 40 mm-link 50Mbps.trace 50Mbps.trace
--uplink-queue=droptail --uplink-queue-args=packets=300
Repeated the test of 2 congestion control schemes once.
Each test lasted for 60 seconds running 1 flow.

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 @ 96d5a43d79d12bead7a4ac9210febe6da28468ac
third_party/aurora @ f3e943d61015b39960854ba6391797e0c7984d74
third_party/aurora-model @ e292c316c23fb837255c4e142e40590d154bbe95
third_party/eagle-plus @ 38c2b54a621341f689124da6509108b7fd3ce367
M net-em/net-em/net_em/envs/example_xentropy.py
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-xentropy.cpython-36.pyc
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D sender-receiver/sender-receiver/sender_receiver/envs/models/training_models/model-xentropy.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	48.30	95.77	0.48
PythonBBR-plus	1	39.10	112.15	0.32

Run 1: Statistics of TCP BBR

Start at: 2020-02-29 08:29:12

End at: 2020-02-29 08:30:12

Below is generated by plot.py at 2020-02-29 08:30:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 48.30 Mbit/s (96.6% utilization)

95th percentile per-packet one-way delay: 95.765 ms

Loss rate: 0.48%

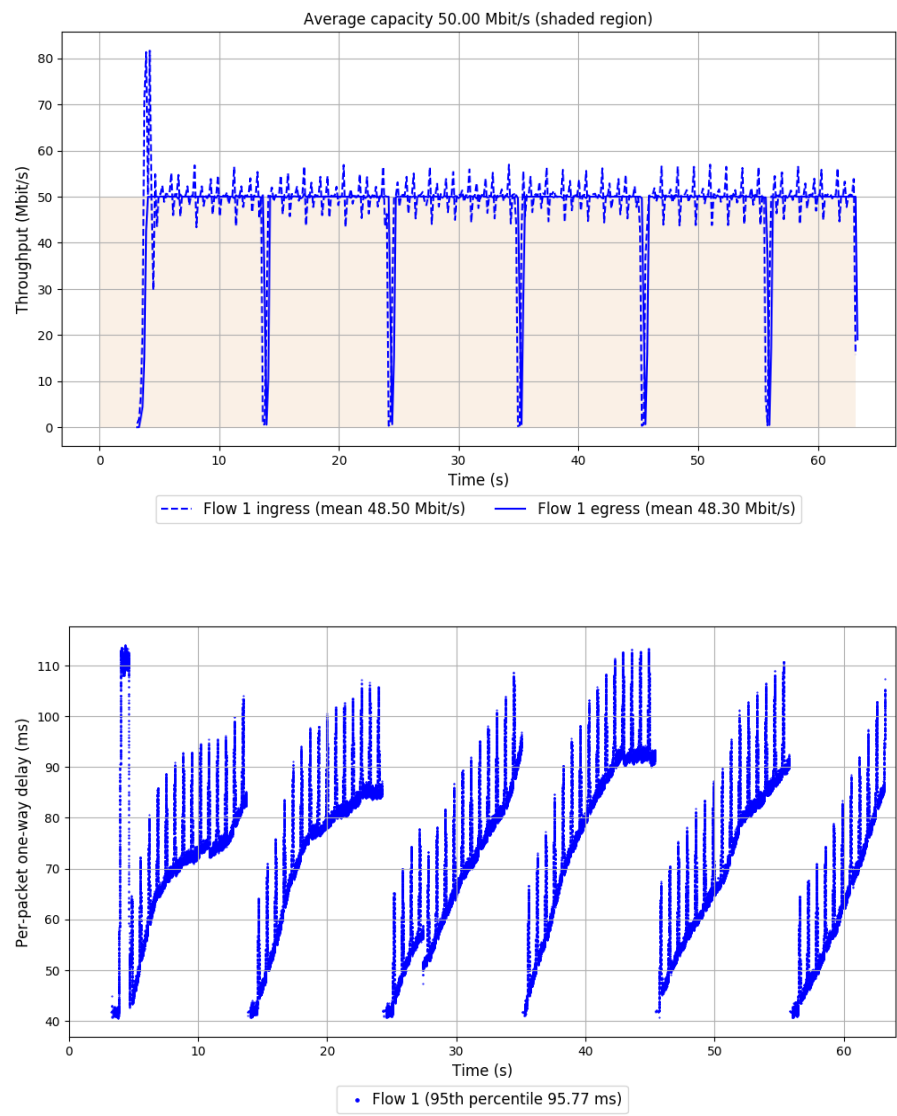
-- Flow 1:

Average throughput: 48.30 Mbit/s

95th percentile per-packet one-way delay: 95.765 ms

Loss rate: 0.48%

Run 1: Report of TCP BBR — Data Link



Run 1: Statistics of PythonBBR-plus

Start at: 2020-02-29 08:28:02

End at: 2020-02-29 08:29:02

Below is generated by plot.py at 2020-02-29 08:30:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 39.10 Mbit/s (78.2% utilization)

95th percentile per-packet one-way delay: 112.146 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 112.146 ms

Loss rate: 0.32%

Run 1: Report of PythonBBR-plus — Data Link

