Pantheon Report

Generated at 2025-04-17 19:33:34 (UTC).

Tested in mahimahi: `mm-delay 10 mm-link 50mbps.trace 50mbps.trace --uplink-queue=droptail --downlink-queue=droptail --uplink-queue-args=packets=500 --downlink-queue-args=packets=500`
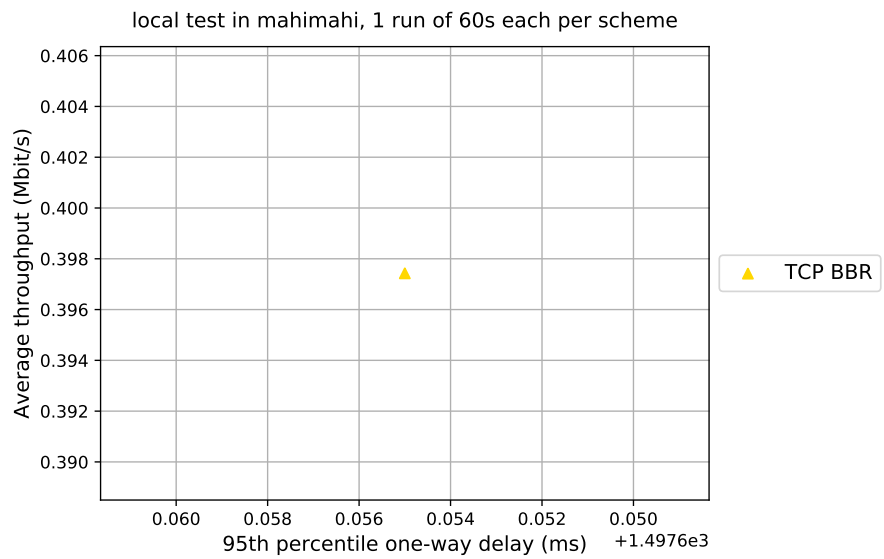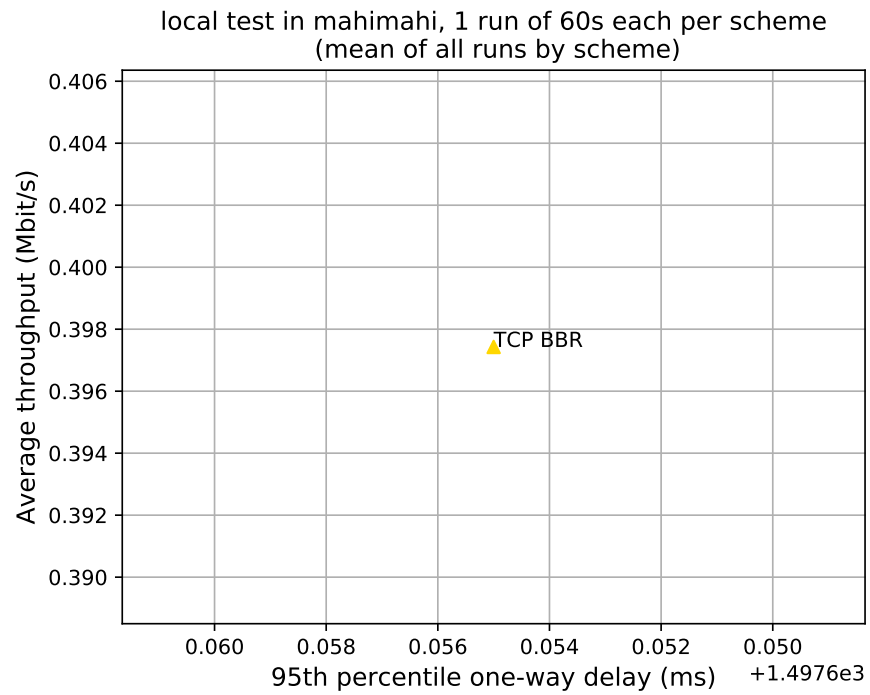
Repeated the test of 1 congestion control schemes once.

Each test lasted for 60 seconds running 1 flow.

```
System info:
Linux 5.15.0-136-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:
N/A
```

local test in mahimahi, 1 run of 60s each per scheme
(mean of all runs by scheme)

local test in mahimahi, 1 run of 60s each per scheme

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	1	0.40	1497.65	21.89

```
Run 1: Statistics of TCP BBR

Start at: 2025-04-17 19:31:32
End at: 2025-04-17 19:32:32

# Below is generated by plot.py at 2025-04-17 19:33:34
# Datalink statistics
-- Total of 1 flow:
Average capacity: 34.11 Mbit/s
Average throughput: 0.40 Mbit/s (1.2% utilization)
95th percentile per-packet one-way delay: 1497.655 ms
Loss rate: 21.89%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 1497.655 ms
Loss rate: 21.89%
```

Run 1: Report of TCP BBR — Data Link

Average capacity 34.11 Mbit/s (shaded region)

Flow 1 ingress (mean 0.50 Mbit/s) —— Flow 1 egress (mean 0.40 Mbit/s)

• Flow 1 (95th percentile 1497.65 ms)