

Pantheon Report

Generated at 2022-03-11 06:55:03 (UTC).

Tested in mahimahi: `mm-delay 100 mm-link 12mbps.trace 12mbps.trace`

Repeated the test of 1 congestion control schemes once.

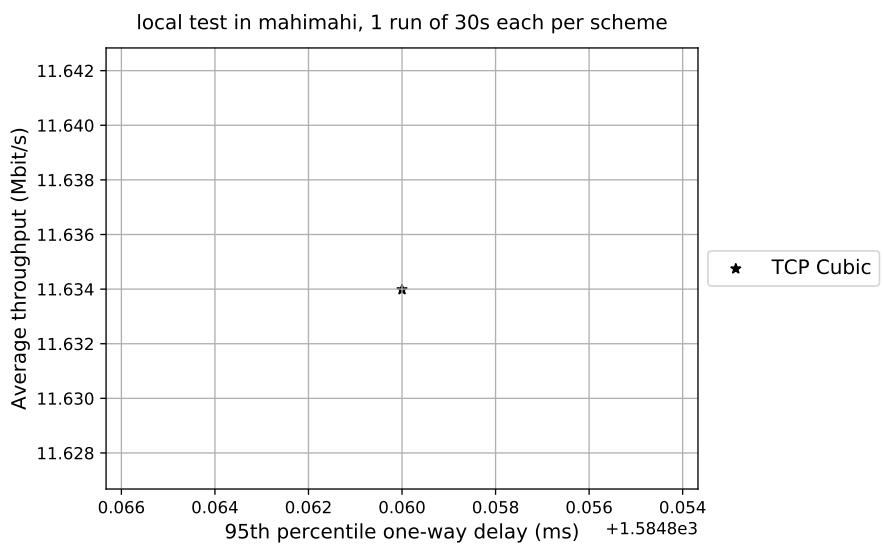
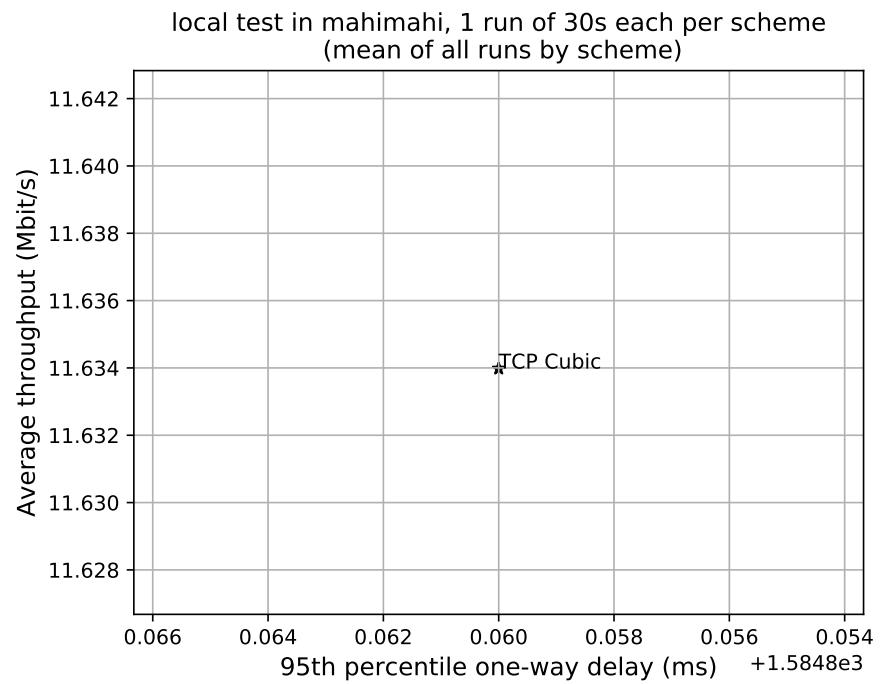
Each test lasted for 30 seconds running 1 flow.

System info:

```
Linux 4.15.0-159-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 @ 74f3c2ac75b98cf8756b2ba9d2a157f1fec7398
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 463d89b09699a57bfdfbae351646df6a60040b90
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
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
```



| scheme | # runs | mean avg tput (Mbit/s) | mean 95th-%ile delay (ms) | mean loss rate (%) |
|-----------|--------|------------------------|---------------------------|--------------------|
| | | flow 1 | flow 1 | flow 1 |
| TCP Cubic | 1 | 11.63 | 1584.86 | 2.95 |

```
Run 1: Statistics of TCP Cubic

Start at: 2022-03-11 06:53:41
End at: 2022-03-11 06:54:11

# Below is generated by plot.py at 2022-03-11 06:55:02
# Datalink statistics
-- Total of 1 flow:
Average capacity: 12.00 Mbit/s
Average throughput: 11.63 Mbit/s (96.9% utilization)
95th percentile per-packet one-way delay: 1584.860 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 1584.860 ms
Loss rate: 2.95%
```

Run 1: Report of TCP Cubic — Data Link

