

# Pantheon Report

Generated at 2022-03-30 20:06:58 (UTC).

Tested in mahimahi: mm-link ATT-LTE-driving.up ATT-LTE-driving.down

Repeated the test of 1 congestion control schemes once.

Each test lasted for 30 seconds running 1 flow.

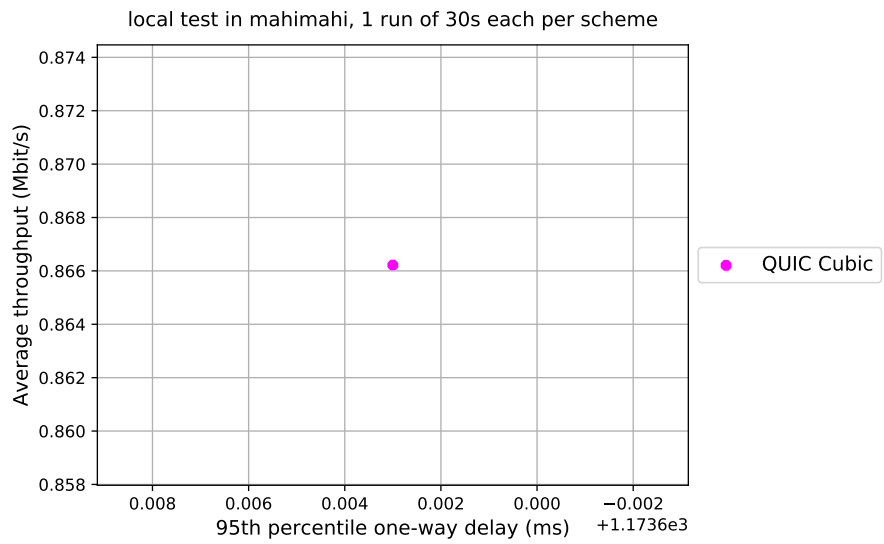
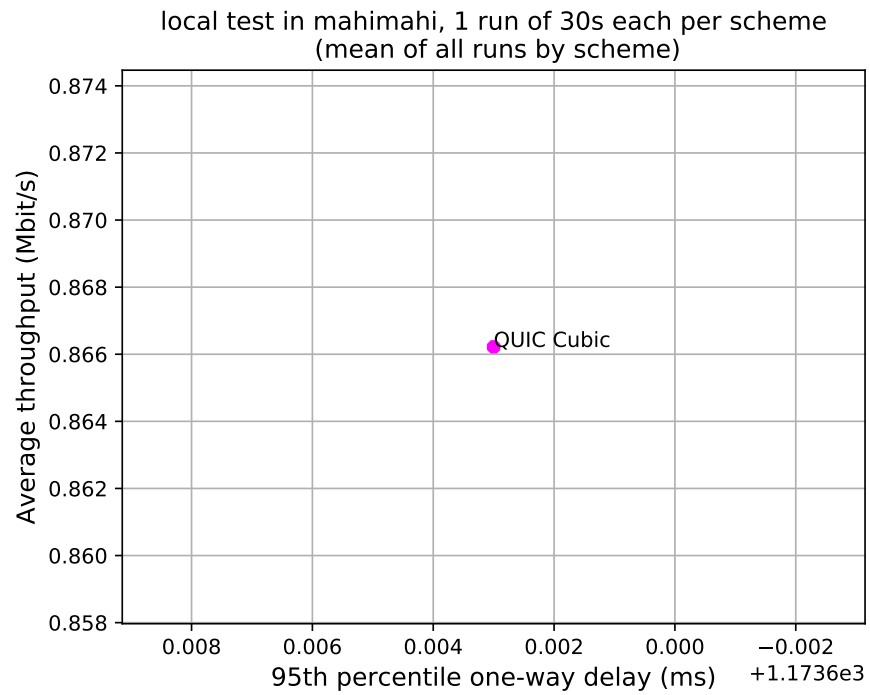
## System info:

```
Linux 5.13.0-37-generic
net.core.default_qdisc = fq_codel
net.core.rmem_default = 212992
net.core.rmem_max = 50000000
net.core.wmem_default = 212992
net.core.wmem_max = 1048576
net.ipv4.tcp_rmem = 4096 131072 6291456
net.ipv4.tcp_wmem = 4096 16384 4194304
```

## Git summary:

```
branch: master @ 932ea819529bc7318f767ee187f6f0482584470f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
M makefile
M python-wrapper.cc
third_party/indigo @ 463d89b09699a57bfdfbae351646df6a60040b90
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
M configure.ac
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-quick @ 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 src/verus_server.cpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



| scheme     | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|------------|--------|----------------------------------|-------------------------------------|------------------------------|
| QUIC Cubic | 1      | 0.87                             | 1173.60                             | 4.94                         |

Run 1: Statistics of QUIC Cubic

Start at: 2022-03-30 20:03:03

End at: 2022-03-30 20:03:33

# Below is generated by plot.py at 2022-03-30 20:06:57

# Datalink statistics

-- Total of 1 flow:

Average capacity: 0.95 Mbit/s

Average throughput: 0.87 Mbit/s (91.2% utilization)

95th percentile per-packet one-way delay: 1173.603 ms

Loss rate: 4.94%

-- Flow 1:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 1173.603 ms

Loss rate: 4.94%

Run 1: Report of QUIC Cubic — Data Link

