Pantheon Report

Generated at 2025-04-17 19:29:36 (UTC).

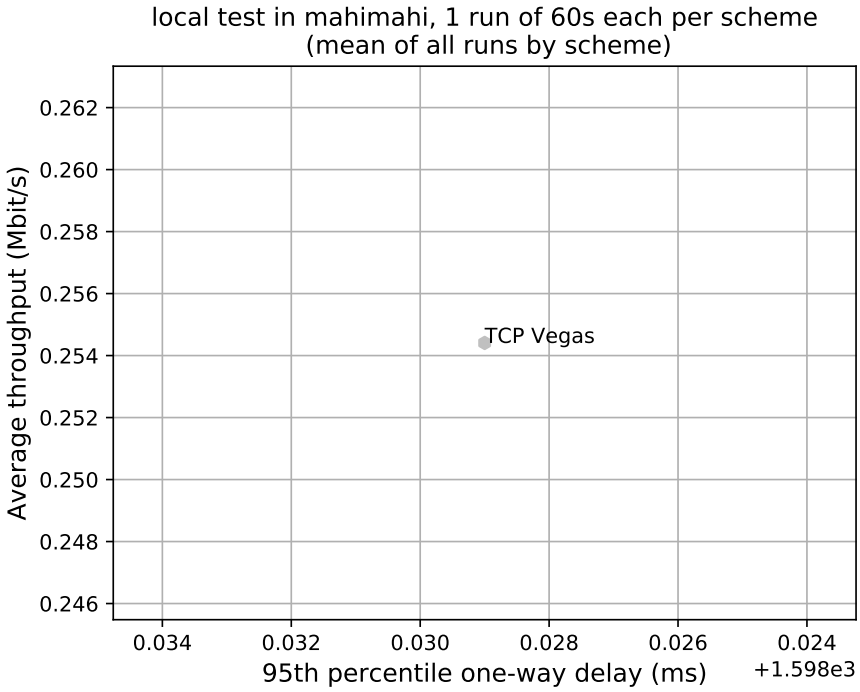
Tested in mahimahi: `mm-delay 100 mm-link 1mbps.trace 1mbps.trace --uplink-queue=droptail --downlink-queue=droptail --uplink-queue-args=packets=500 --downlink-queue-args=packets=500`

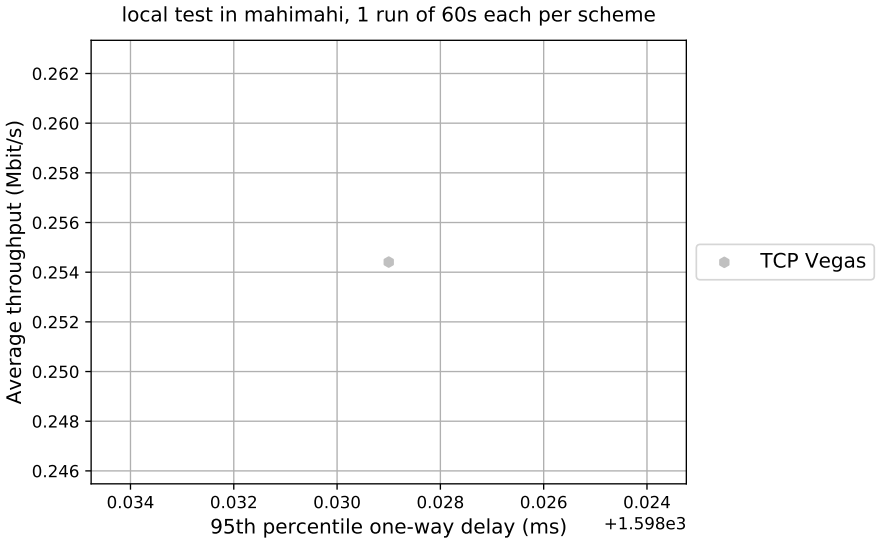
Repeated the test of 1 congestion control schemes once.

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)
Average throughput (Mbit/s)
0.262
0.260
0.258
0.256
0.254
0.252
0.250
0.248
0.246
TCP Vegas
0.034
0.032
0.030
0.028
0.026
0.024
95th percentile one-way delay (ms)
+1.598e3


local test in mahimahi, 1 run of 60s each per scheme
Average throughput (Mbit/s)
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0.034
0.032
0.030
0.028
0.026
0.024
95th percentile one-way delay (ms)
+1.598e3
TCP Vegas

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP Vegas	1	0.25	1598.03	2.11

```
Run 1: Statistics of TCP Vegas

Start at: 2025-04-17 19:25:26
End at: 2025-04-17 19:26:26

# Below is generated by plot.py at 2025-04-17 19:29:36
# Datalink statistics
-- Total of 1 flow:
Average capacity: 0.68 Mbit/s
Average throughput: 0.25 Mbit/s (37.4% utilization)
95th percentile per-packet one-way delay: 1598.029 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 1598.029 ms
Loss rate: 2.11%
```

Run 1: Report of TCP Vegas — Data Link