

## Pantheon Report

Generated at 2021-07-07 08:20:44 (UTC).

Tested in mahimahi: mm-delay 80 mm-link 12mbps.trace 12mbps.trace  
--uplink-queue=droptail --uplink-queue-args=packets=1000

Repeated the test of 1 congestion control schemes once.

Each test lasted for 30 seconds running 1 flow.

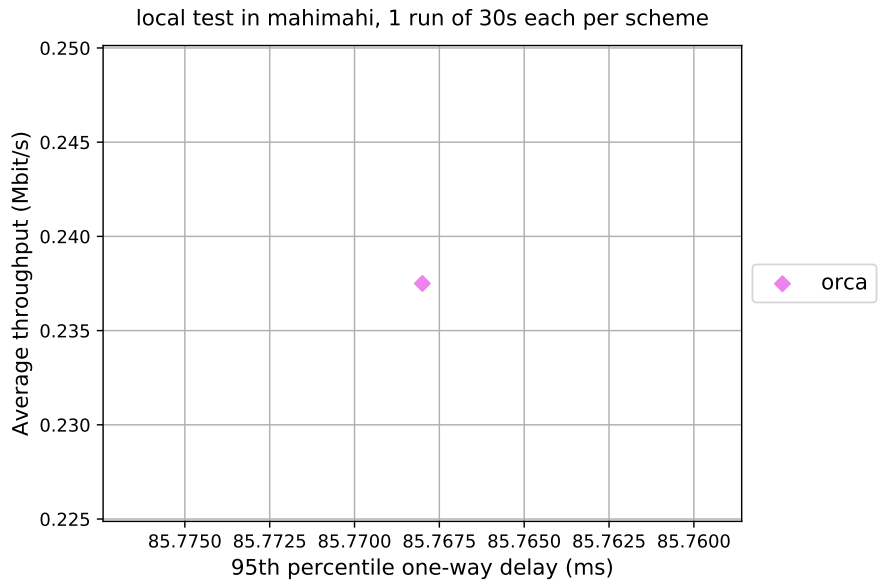
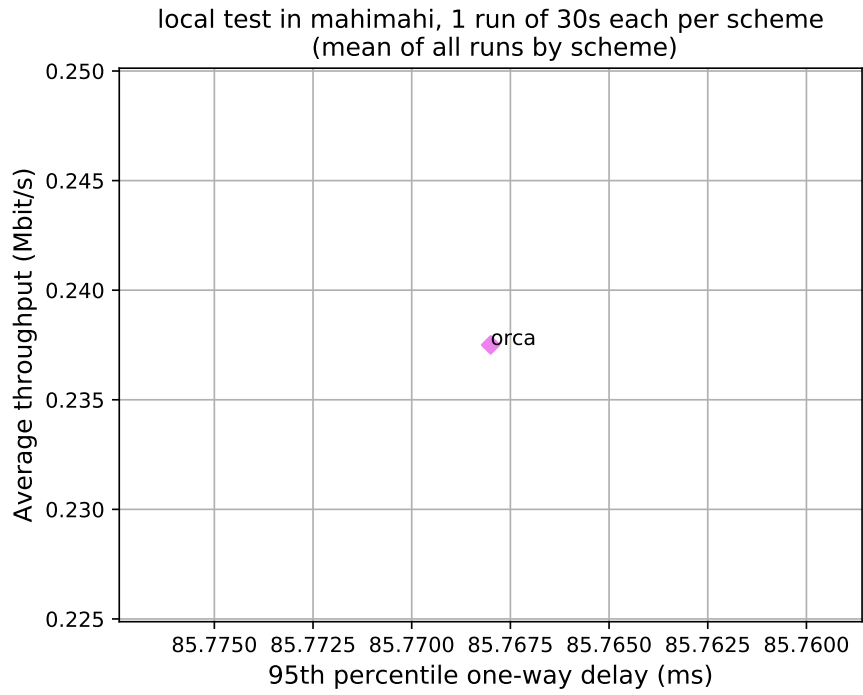
### System info:

```
Linux 4.13.1-0521-learner
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 87380 6291456
net.ipv4.tcp_wmem = 4096 32768 4194304
```

### Git summary:

```
branch: master @ 99ce503a4b7f0c69e0a7c7e25dfa3753c361252a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
M .gitignore
M COPYING
M Makefile.am
M README.md
M configure.ac
M src/Makefile.am
M src/frontend/Makefile.am
M src/frontend/tunnelclientshell.cc
M src/frontend/tunnelservershell.cc
M src/packet/Makefile.am
M src/packet/tunnelshell.cc
M src/packet/tunnelshell.hh
M src/packet/tunnelshell_common.cc
M src/packet/tunnelshell_common.hh
M src/util/Makefile.am
M src/util/address.cc
M src/util/address.hh
M src/util/autoconnect_socket.hh
M src/util/child_process.cc
M src/util/child_process.hh
M src/util/event_loop.cc
M src/util/event_loop.hh
M src/util/exception.hh
M src/util/ezio.cc
M src/util/ezio.hh
```

M src/util/file\_descriptor.cc  
M src/util/file\_descriptor.hh  
M src/util/interfaces.cc  
M src/util/interfaces.hh  
M src/util/netdevice.cc  
M src/util/netdevice.hh  
M src/util/poller.cc  
M src/util/poller.hh  
M src/util/signalfd.cc  
M src/util/signalfd.hh  
M src/util/socket.cc  
M src/util/socket.hh  
M src/util/socketpair.cc  
M src/util/socketpair.hh  
M src/util/system\_runner.cc  
M src/util/system\_runner.hh  
M src/util/timestamp.cc  
M src/util/timestamp.hh  
M src/util/util.cc  
M src/util/util.hh



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
orca	1	0.24	85.77	0.39

Run 1: Statistics of orca

Start at: 2021-07-07 08:19:31

End at: 2021-07-07 08:20:01

# Below is generated by plot.py at 2021-07-07 08:20:42

# Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 0.24 Mbit/s (2.0% utilization)

95th percentile per-packet one-way delay: 85.768 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 85.768 ms

Loss rate: 0.39%

# Run 1: Report of orca — Data Link

