

## Pantheon Report

Generated at 2017-09-18 08:19:24 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE London Ethernet (*remote*).

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

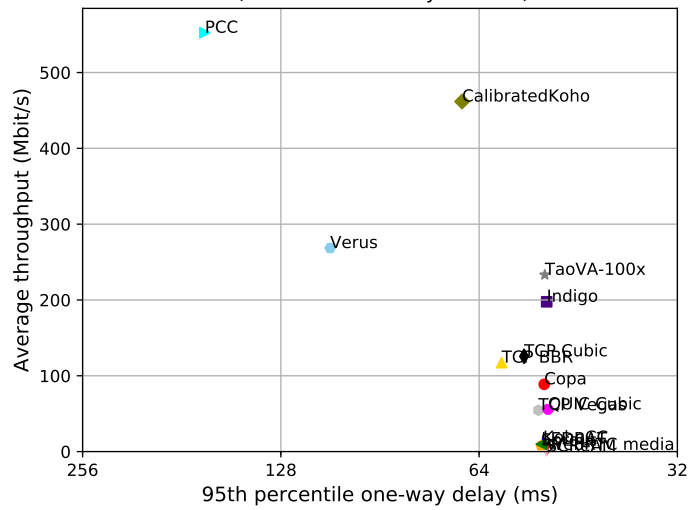
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

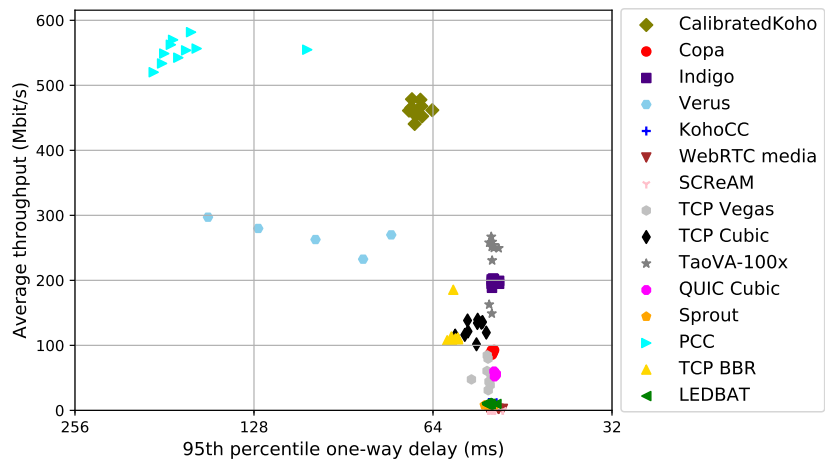
Git summary:

```
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE London Ethernet, 10 runs of 30s 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	10	117.29	59.15	0.02
CalibratedKoho	10	461.73	67.93	0.03
Copa	10	88.75	50.97	0.00
TCP Cubic	10	125.65	54.69	0.01
Indigo	10	197.61	50.53	0.00
KohoCC	10	11.64	51.18	0.01
LEDBAT	10	9.72	51.50	0.06
PCC	10	552.43	166.95	1.05
QUIC Cubic	4	55.70	50.30	0.00
SCReAM	10	0.22	50.58	0.00
Sprout	10	7.95	51.55	0.01
TaoVA-100x	10	233.14	50.87	0.00
TCP Vegas	8	54.50	52.03	0.00
Verus	5	268.45	107.77	0.20
WebRTC media	10	2.27	50.52	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-09-18 04:26:05

End at: 2017-09-18 04:26:35

# Below is generated by plot.py at 2017-09-18 07:32:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 111.88 Mbit/s

95th percentile per-packet one-way delay: 58.119 ms

Loss rate: 0.00%

-- Flow 1:

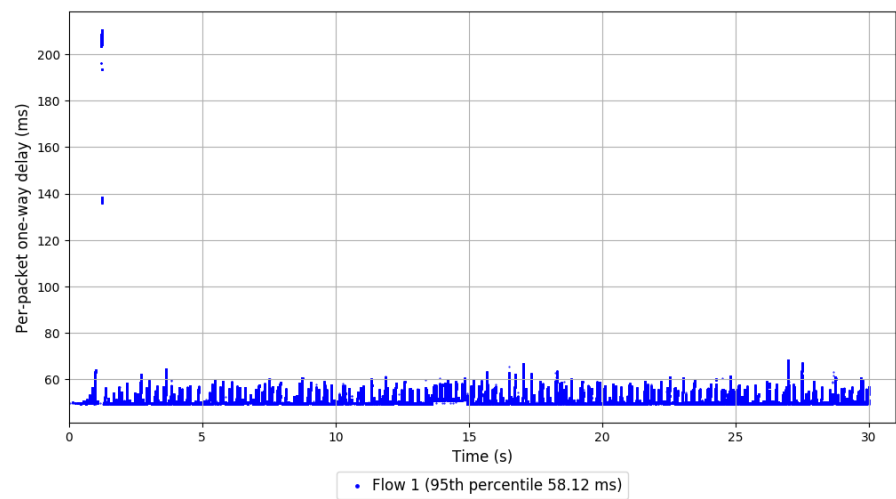
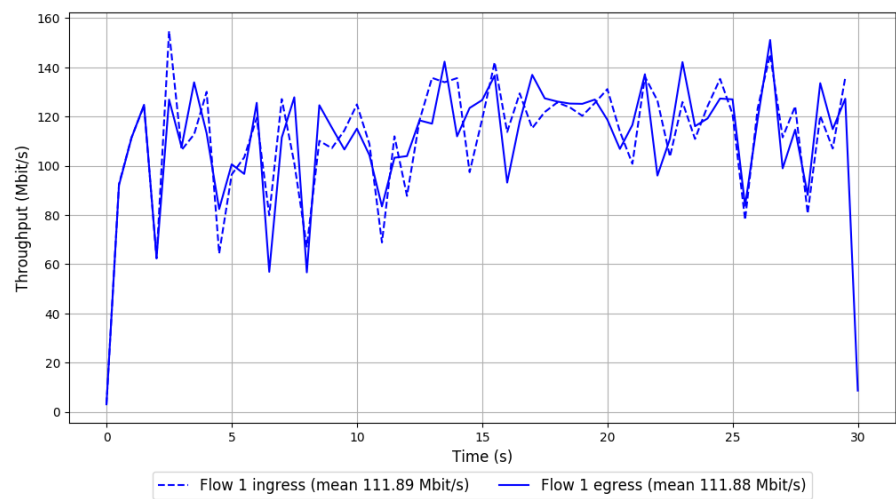
Average throughput: 111.88 Mbit/s

95th percentile per-packet one-way delay: 58.119 ms

Loss rate: 0.00%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-18 04:37:07

End at: 2017-09-18 04:37:37

# Below is generated by plot.py at 2017-09-18 07:32:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 113.68 Mbit/s

95th percentile per-packet one-way delay: 59.595 ms

Loss rate: 0.00%

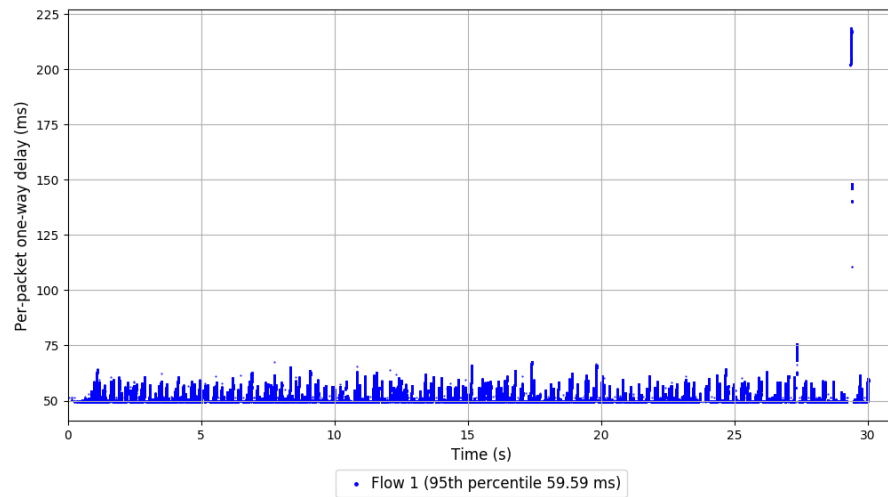
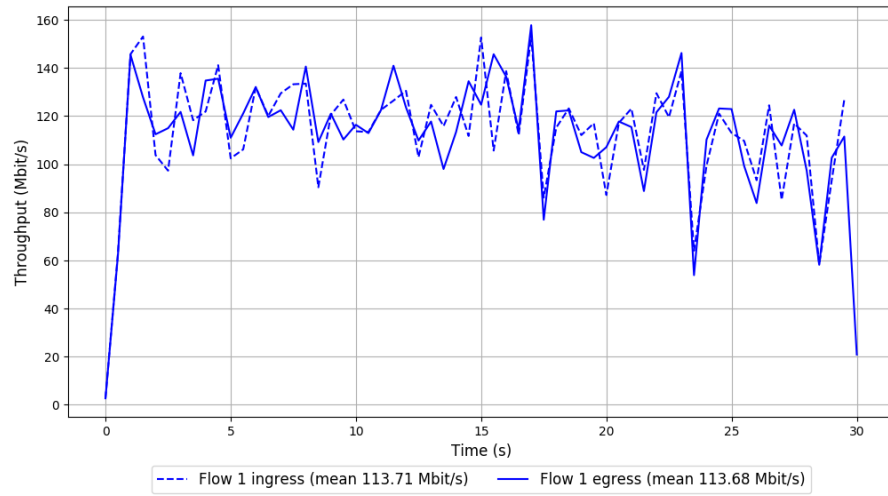
-- Flow 1:

Average throughput: 113.68 Mbit/s

95th percentile per-packet one-way delay: 59.595 ms

Loss rate: 0.00%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-18 04:48:19

End at: 2017-09-18 04:48:49

# Below is generated by plot.py at 2017-09-18 07:32:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 107.88 Mbit/s

95th percentile per-packet one-way delay: 60.577 ms

Loss rate: 0.00%

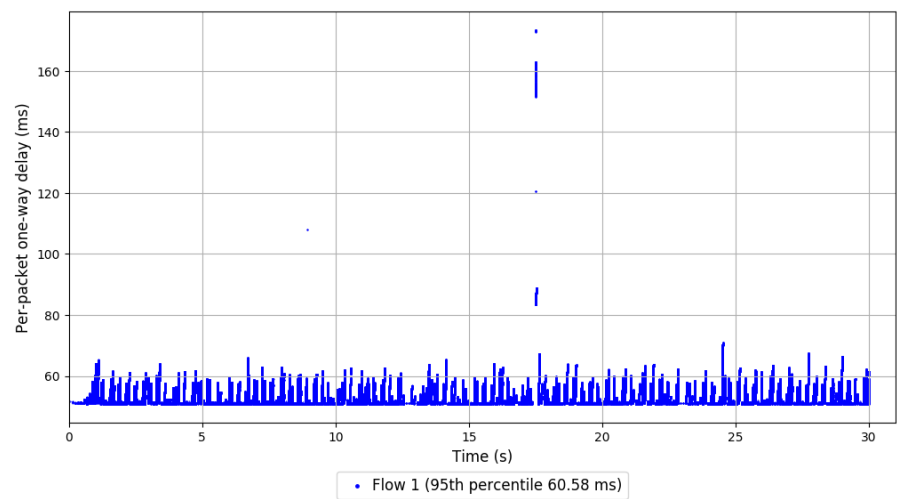
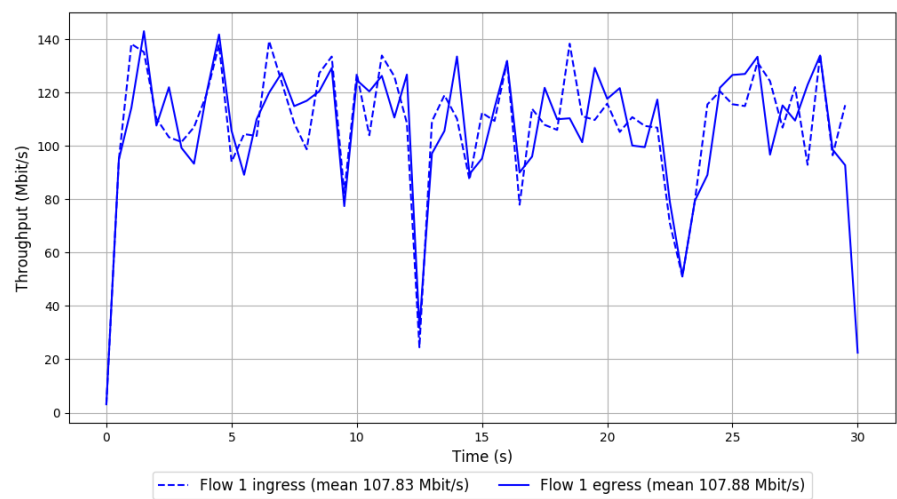
-- Flow 1:

Average throughput: 107.88 Mbit/s

95th percentile per-packet one-way delay: 60.577 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-18 04:59:19

End at: 2017-09-18 04:59:49

# Below is generated by plot.py at 2017-09-18 07:32:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 109.31 Mbit/s

95th percentile per-packet one-way delay: 58.066 ms

Loss rate: 0.00%

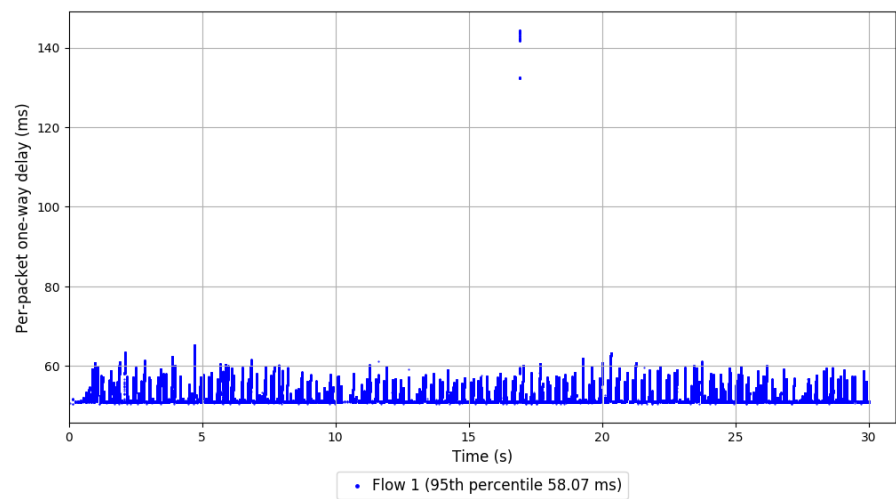
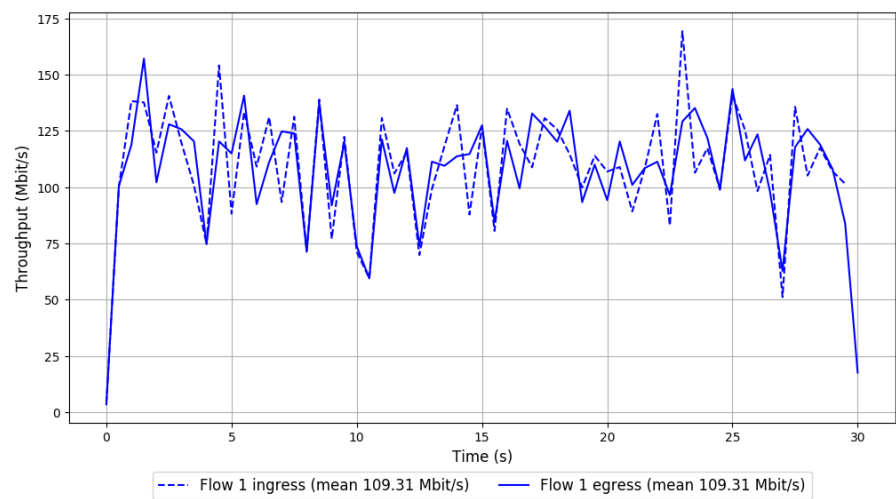
-- Flow 1:

Average throughput: 109.31 Mbit/s

95th percentile per-packet one-way delay: 58.066 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-18 05:10:35

End at: 2017-09-18 05:11:05

# Below is generated by plot.py at 2017-09-18 07:33:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.55 Mbit/s

95th percentile per-packet one-way delay: 59.163 ms

Loss rate: 0.01%

-- Flow 1:

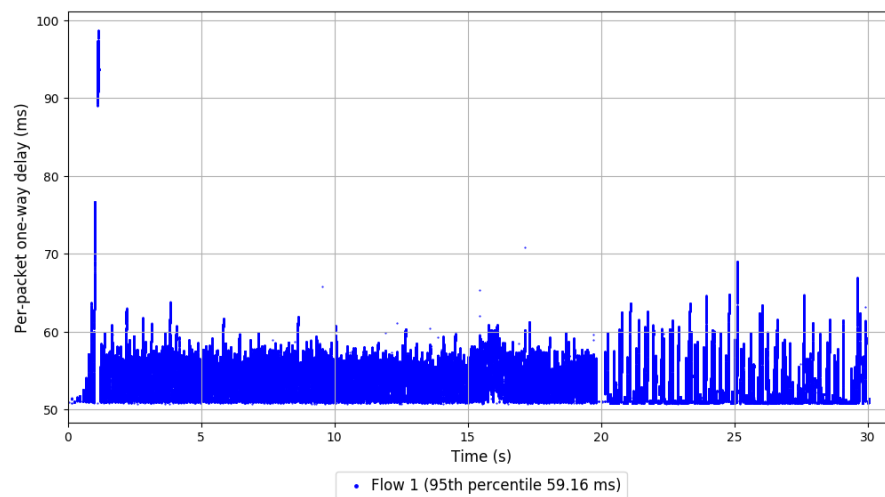
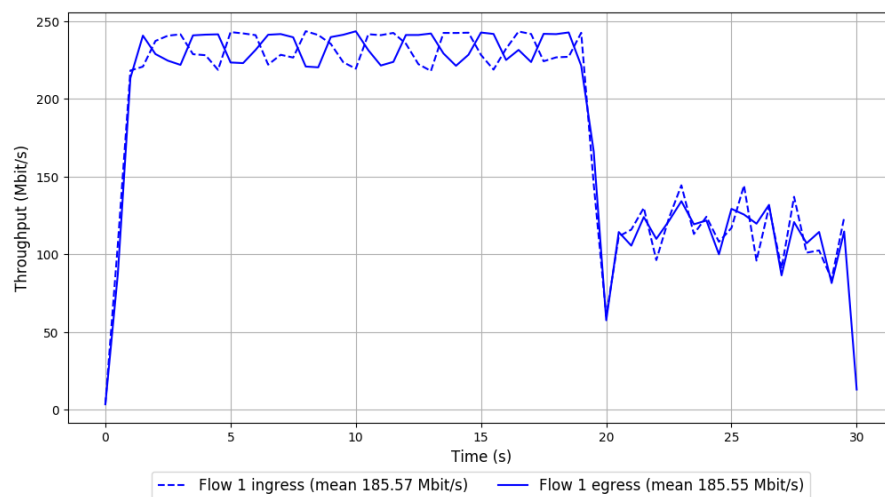
Average throughput: 185.55 Mbit/s

95th percentile per-packet one-way delay: 59.163 ms

Loss rate: 0.01%



### Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-18 05:21:40

End at: 2017-09-18 05:22:10

# Below is generated by plot.py at 2017-09-18 07:33:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 108.92 Mbit/s

95th percentile per-packet one-way delay: 59.676 ms

Loss rate: 0.04%

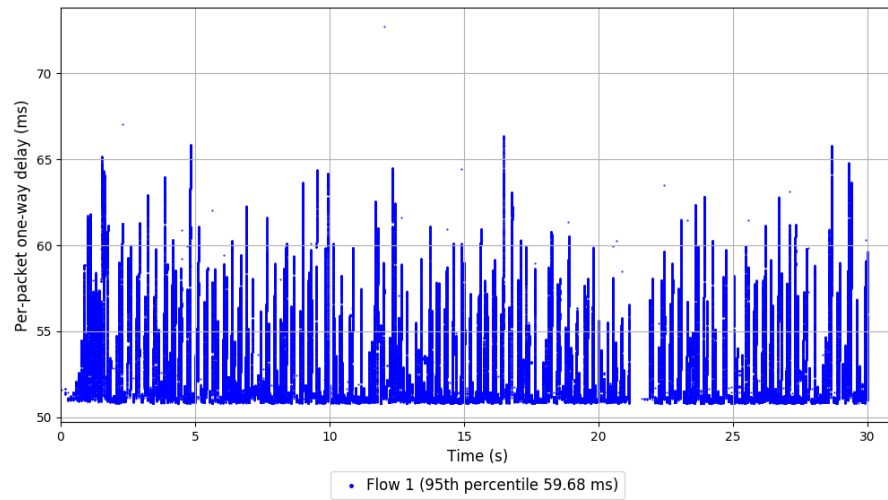
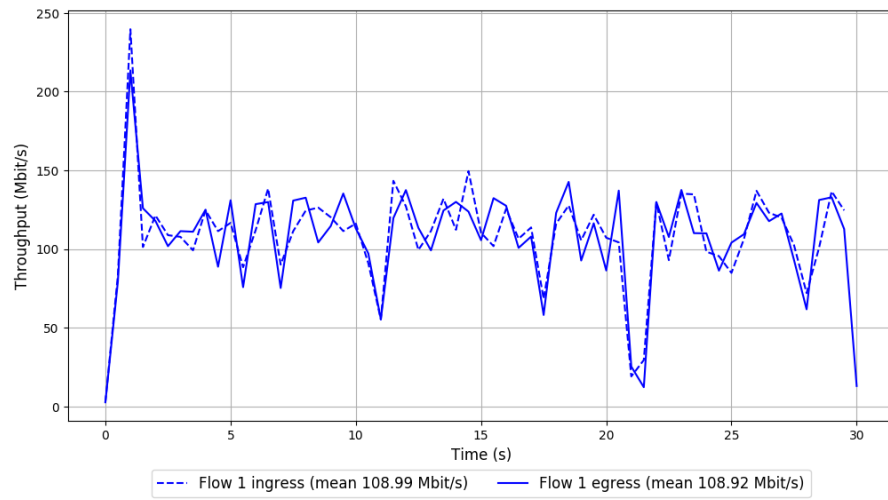
-- Flow 1:

Average throughput: 108.92 Mbit/s

95th percentile per-packet one-way delay: 59.676 ms

Loss rate: 0.04%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-18 05:32:57

End at: 2017-09-18 05:33:27

# Below is generated by plot.py at 2017-09-18 07:33:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 110.70 Mbit/s

95th percentile per-packet one-way delay: 58.681 ms

Loss rate: 0.16%

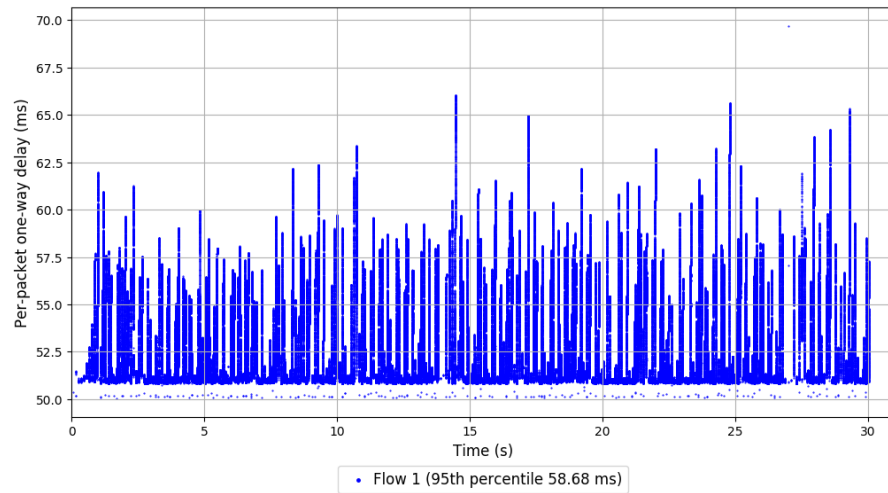
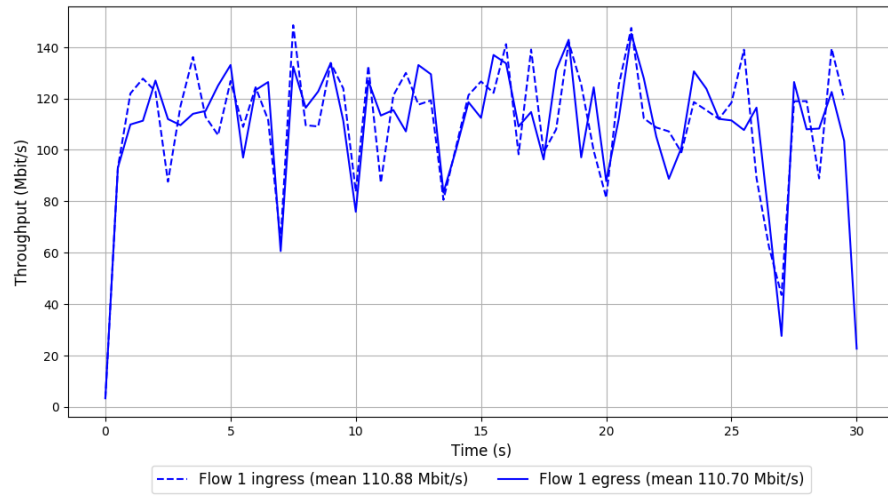
-- Flow 1:

Average throughput: 110.70 Mbit/s

95th percentile per-packet one-way delay: 58.681 ms

Loss rate: 0.16%

### Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-18 05:44:09

End at: 2017-09-18 05:44:39

# Below is generated by plot.py at 2017-09-18 07:33:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 107.44 Mbit/s

95th percentile per-packet one-way delay: 59.729 ms

Loss rate: 0.01%

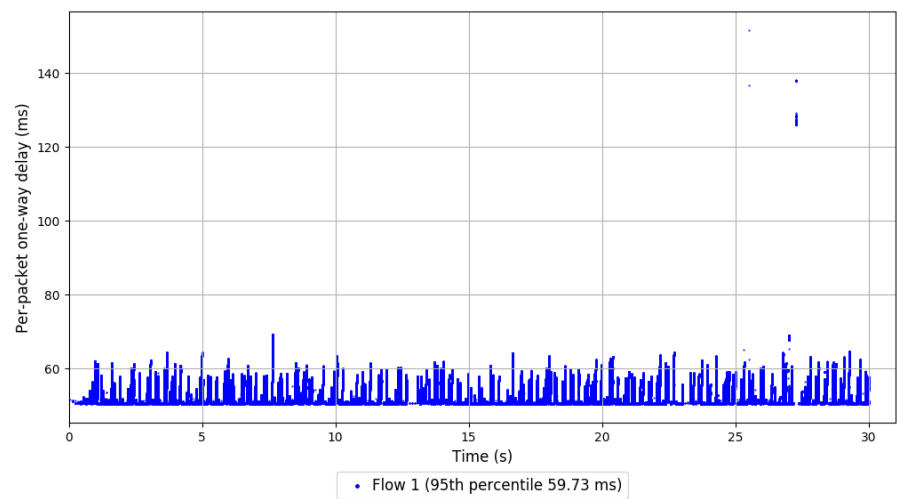
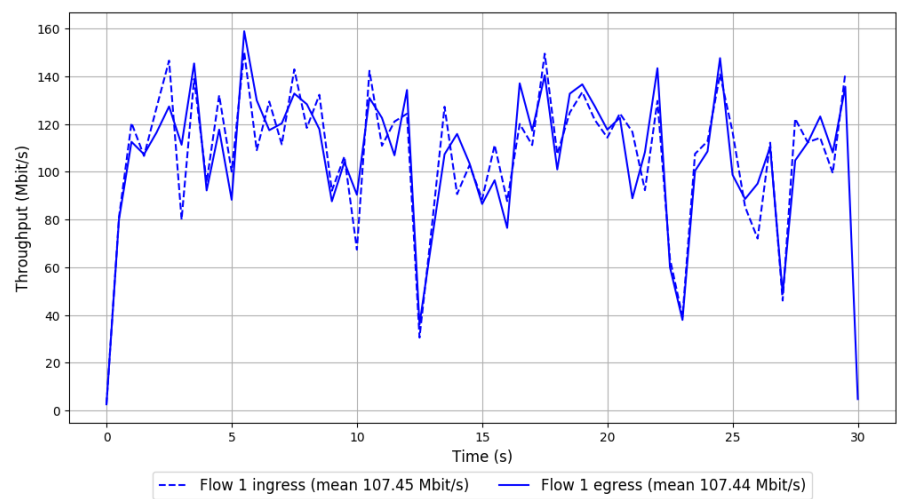
-- Flow 1:

Average throughput: 107.44 Mbit/s

95th percentile per-packet one-way delay: 59.729 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-18 05:55:27

End at: 2017-09-18 05:55:57

# Below is generated by plot.py at 2017-09-18 07:33:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 109.88 Mbit/s

95th percentile per-packet one-way delay: 58.478 ms

Loss rate: 0.00%

-- Flow 1:

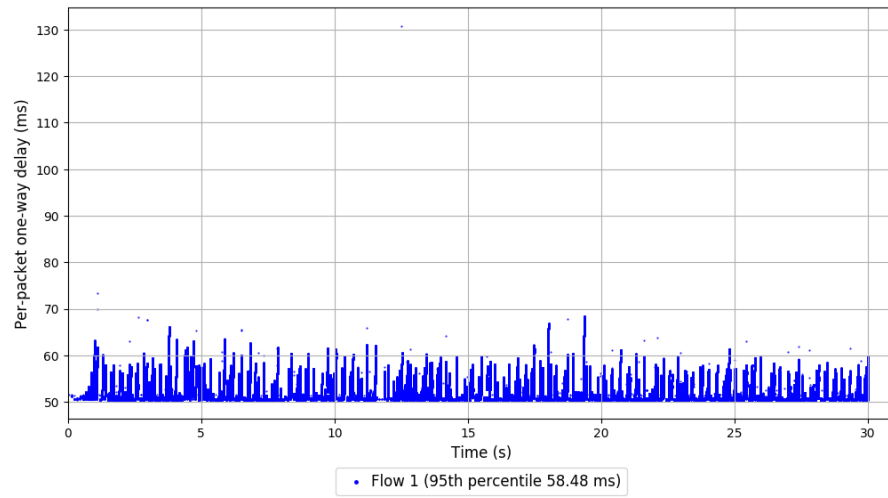
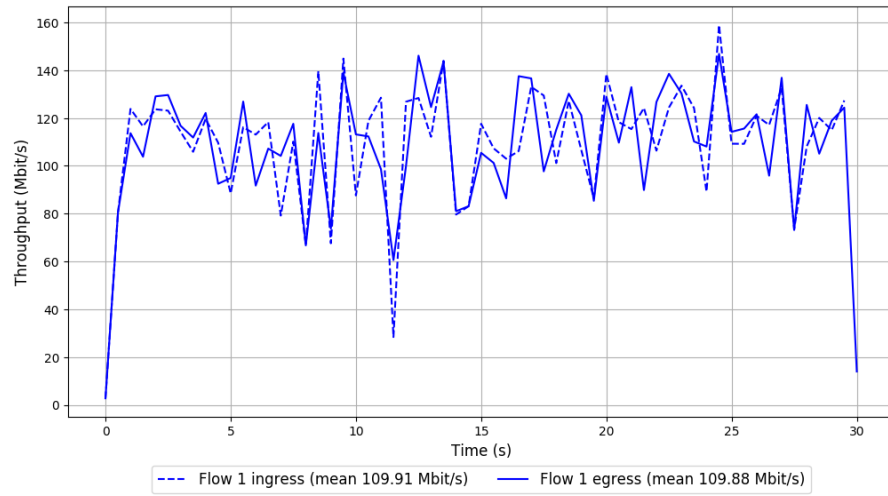
Average throughput: 109.88 Mbit/s

95th percentile per-packet one-way delay: 58.478 ms

Loss rate: 0.00%



### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-18 06:06:44

End at: 2017-09-18 06:07:14

# Below is generated by plot.py at 2017-09-18 07:33:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 107.62 Mbit/s

95th percentile per-packet one-way delay: 59.450 ms

Loss rate: 0.00%

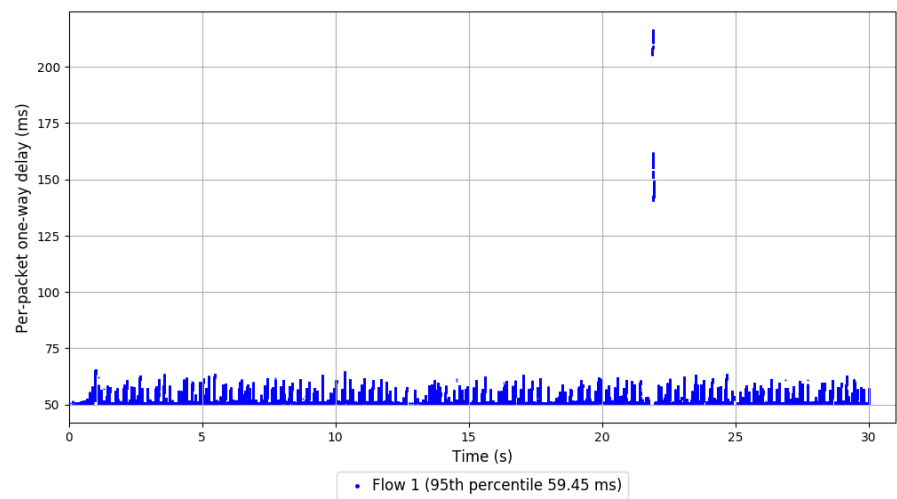
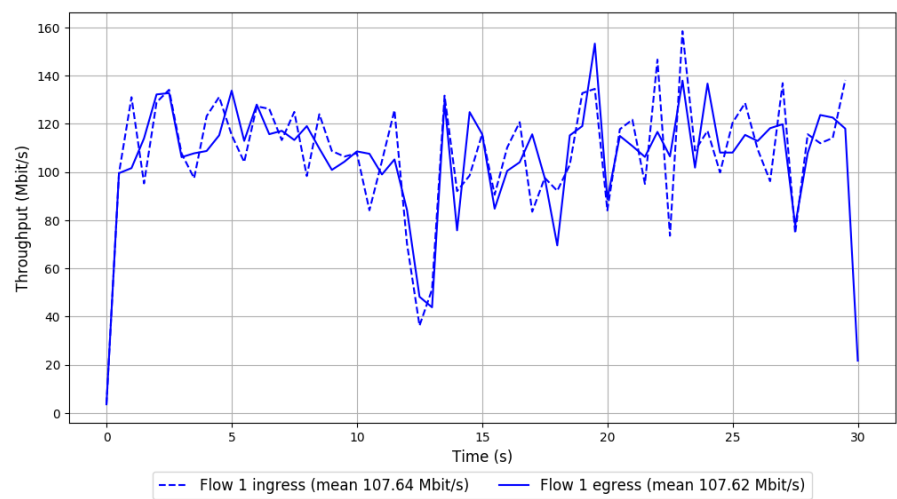
-- Flow 1:

Average throughput: 107.62 Mbit/s

95th percentile per-packet one-way delay: 59.450 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-09-18 04:29:00

End at: 2017-09-18 04:29:30

# Below is generated by plot.py at 2017-09-18 07:40:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 452.37 Mbit/s

95th percentile per-packet one-way delay: 66.748 ms

Loss rate: 0.04%

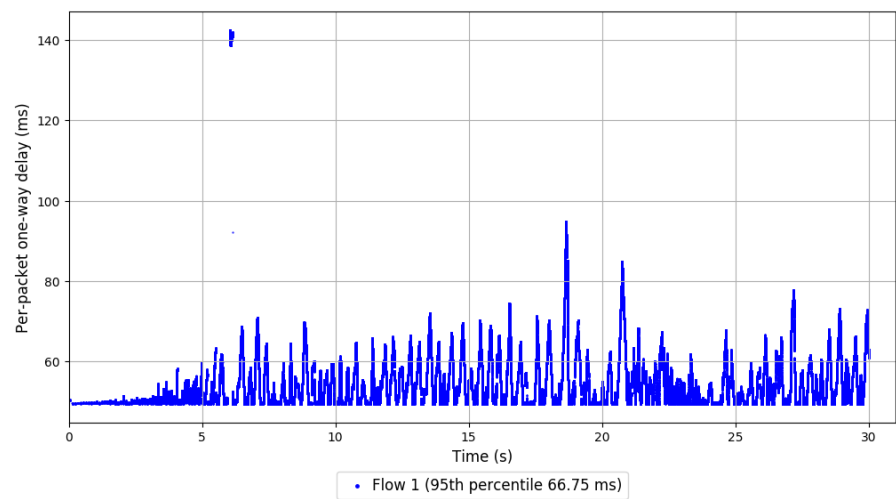
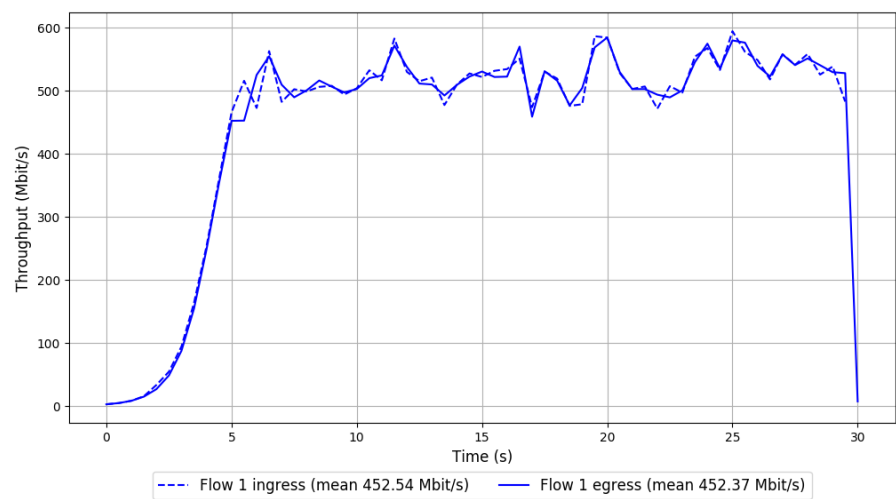
-- Flow 1:

Average throughput: 452.37 Mbit/s

95th percentile per-packet one-way delay: 66.748 ms

Loss rate: 0.04%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-09-18 04:39:54

End at: 2017-09-18 04:40:24

# Below is generated by plot.py at 2017-09-18 07:40:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 477.82 Mbit/s

95th percentile per-packet one-way delay: 67.197 ms

Loss rate: 0.02%

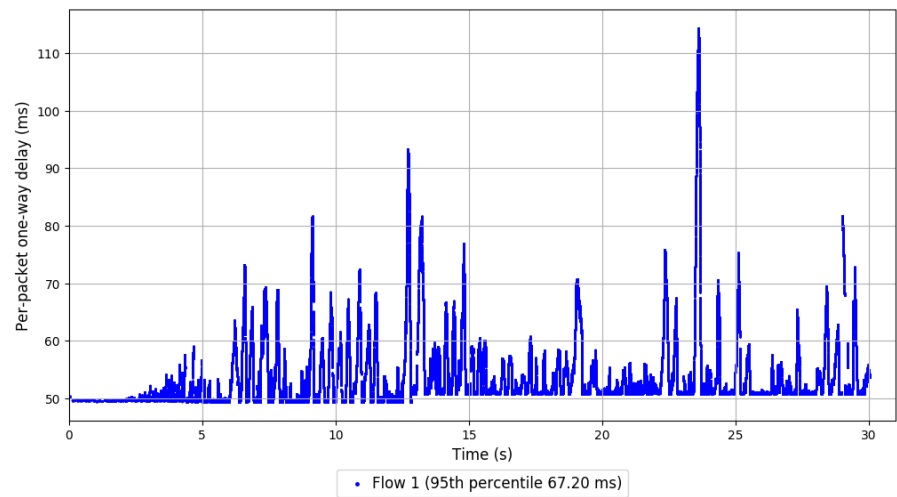
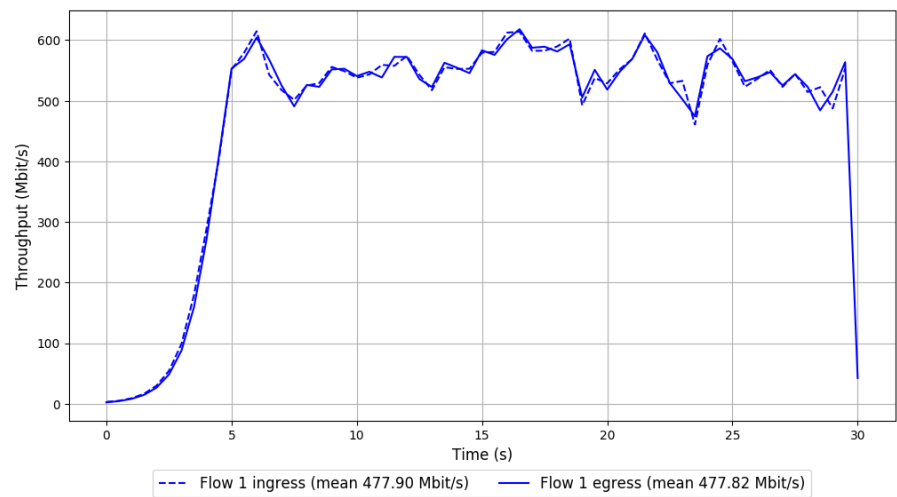
-- Flow 1:

Average throughput: 477.82 Mbit/s

95th percentile per-packet one-way delay: 67.197 ms

Loss rate: 0.02%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-09-18 04:51:15

End at: 2017-09-18 04:51:45

# Below is generated by plot.py at 2017-09-18 07:40:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 457.29 Mbit/s

95th percentile per-packet one-way delay: 67.780 ms

Loss rate: 0.00%

-- Flow 1:

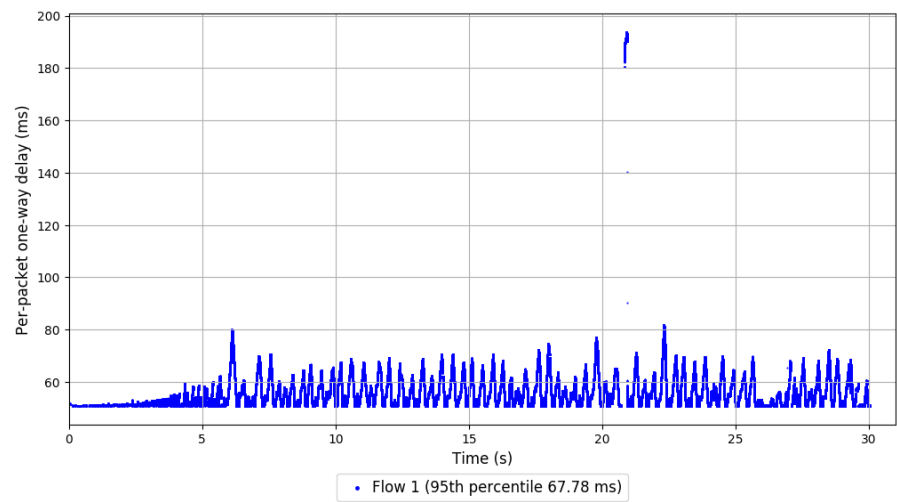
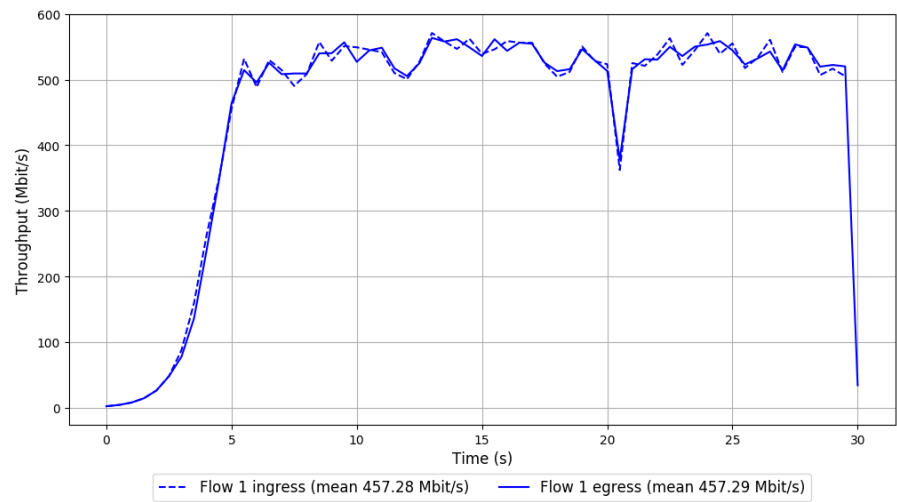
Average throughput: 457.29 Mbit/s

95th percentile per-packet one-way delay: 67.780 ms

Loss rate: 0.00%



Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-09-18 05:02:14

End at: 2017-09-18 05:02:44

# Below is generated by plot.py at 2017-09-18 07:40:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 468.04 Mbit/s

95th percentile per-packet one-way delay: 66.988 ms

Loss rate: 0.03%

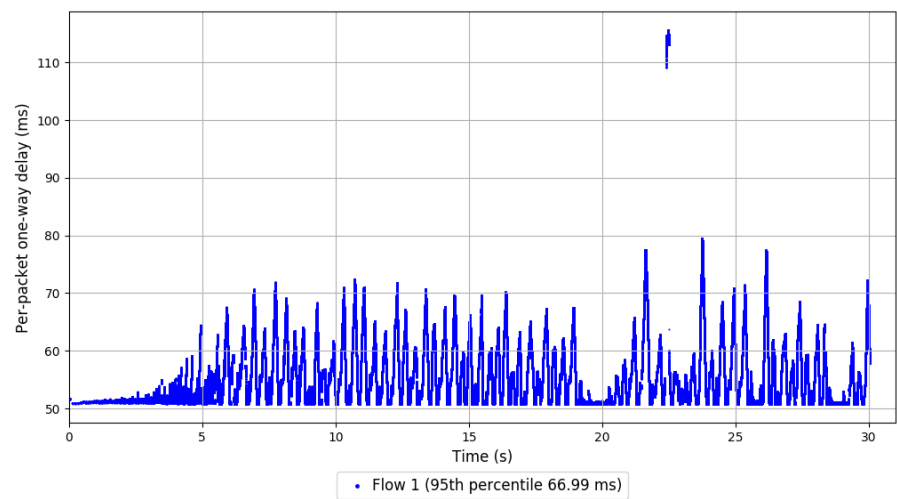
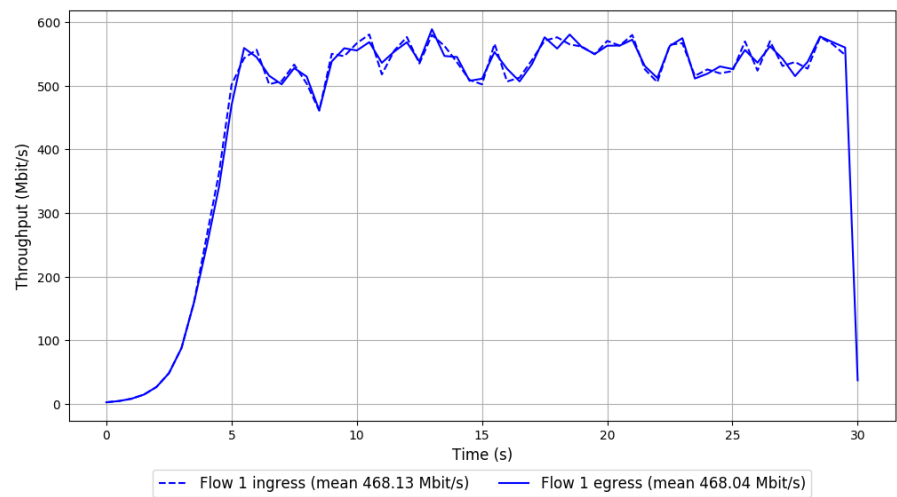
-- Flow 1:

Average throughput: 468.04 Mbit/s

95th percentile per-packet one-way delay: 66.988 ms

Loss rate: 0.03%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-09-18 05:13:33

End at: 2017-09-18 05:14:03

# Below is generated by plot.py at 2017-09-18 07:40:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 440.57 Mbit/s

95th percentile per-packet one-way delay: 68.703 ms

Loss rate: 0.05%

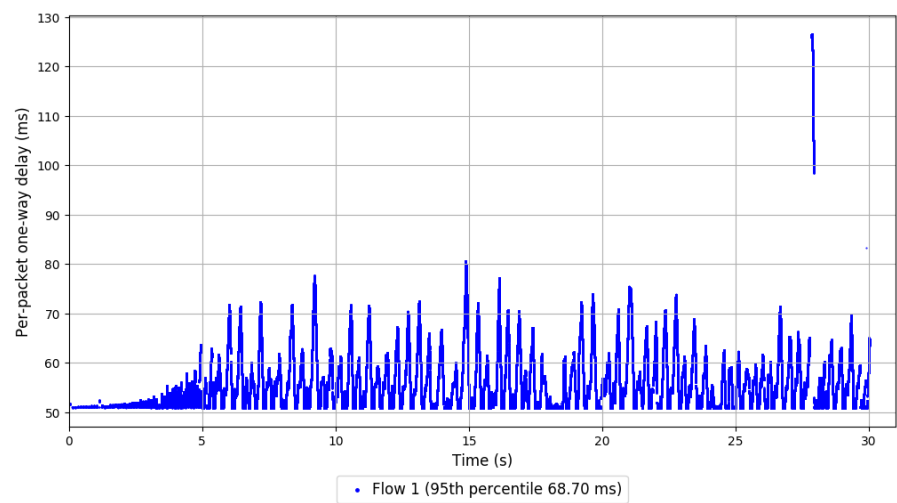
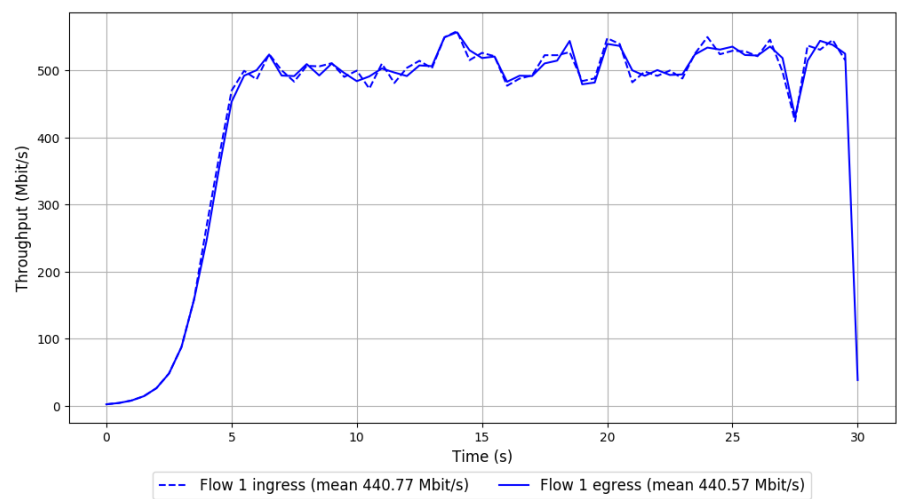
-- Flow 1:

Average throughput: 440.57 Mbit/s

95th percentile per-packet one-way delay: 68.703 ms

Loss rate: 0.05%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-09-18 05:24:26

End at: 2017-09-18 05:24:56

# Below is generated by plot.py at 2017-09-18 07:41:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 465.60 Mbit/s

95th percentile per-packet one-way delay: 69.570 ms

Loss rate: 0.00%

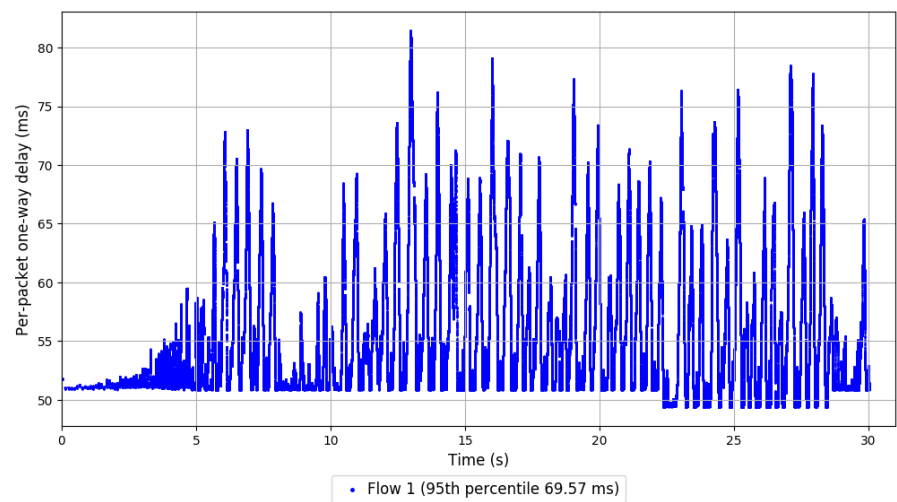
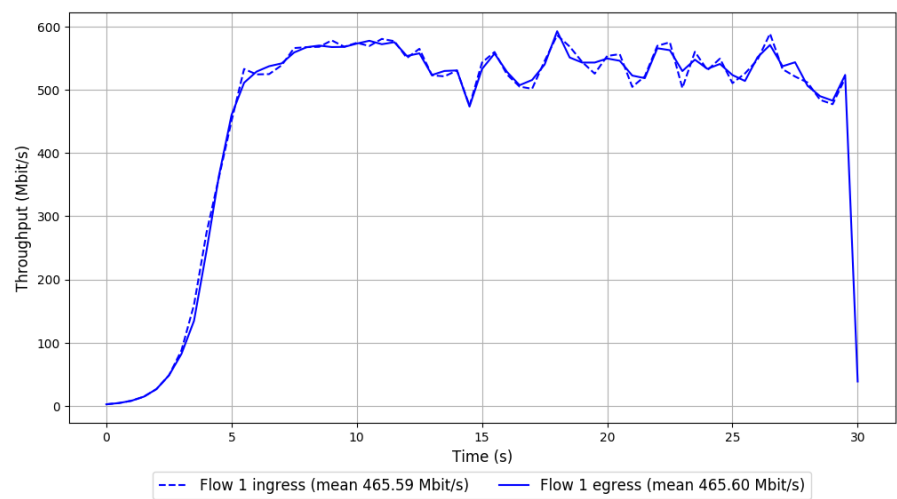
-- Flow 1:

Average throughput: 465.60 Mbit/s

95th percentile per-packet one-way delay: 69.570 ms

Loss rate: 0.00%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-09-18 05:35:54

End at: 2017-09-18 05:36:24

# Below is generated by plot.py at 2017-09-18 07:41:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 461.09 Mbit/s

95th percentile per-packet one-way delay: 70.232 ms

Loss rate: 0.01%

-- Flow 1:

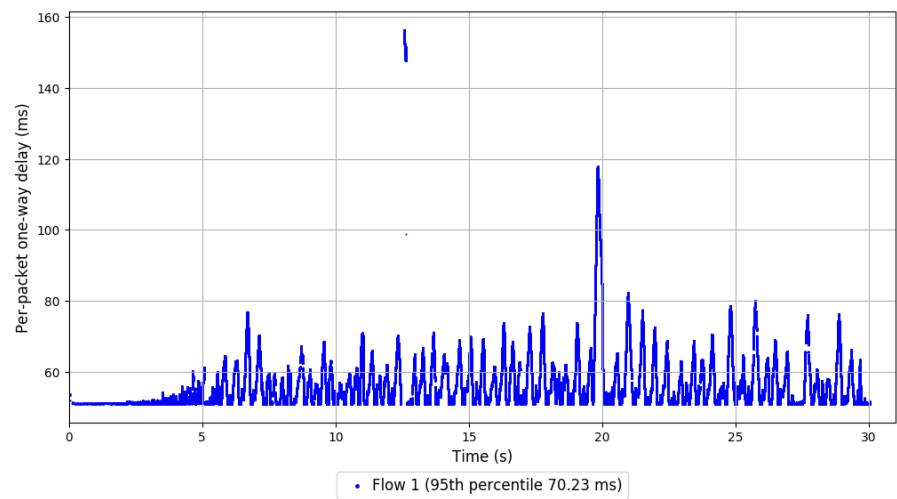
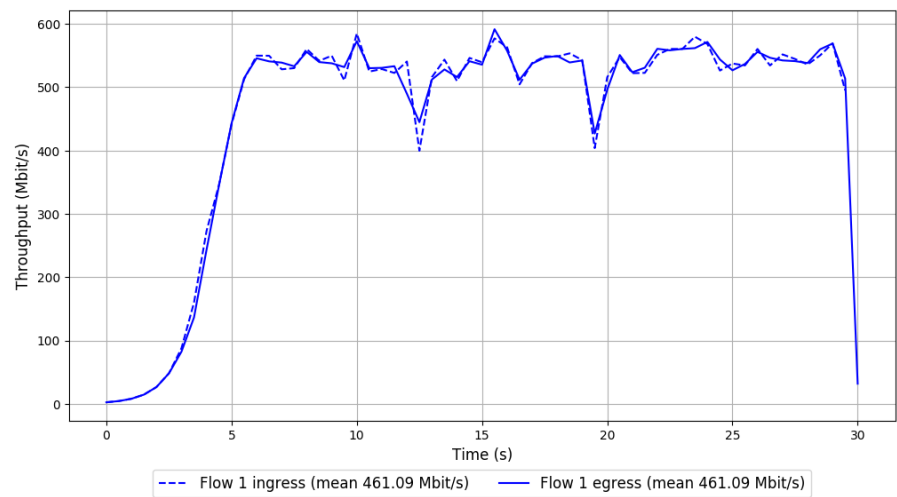
Average throughput: 461.09 Mbit/s

95th percentile per-packet one-way delay: 70.232 ms

Loss rate: 0.01%



Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-09-18 05:47:04

End at: 2017-09-18 05:47:34

# Below is generated by plot.py at 2017-09-18 07:41:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 454.07 Mbit/s

95th percentile per-packet one-way delay: 68.473 ms

Loss rate: 0.01%

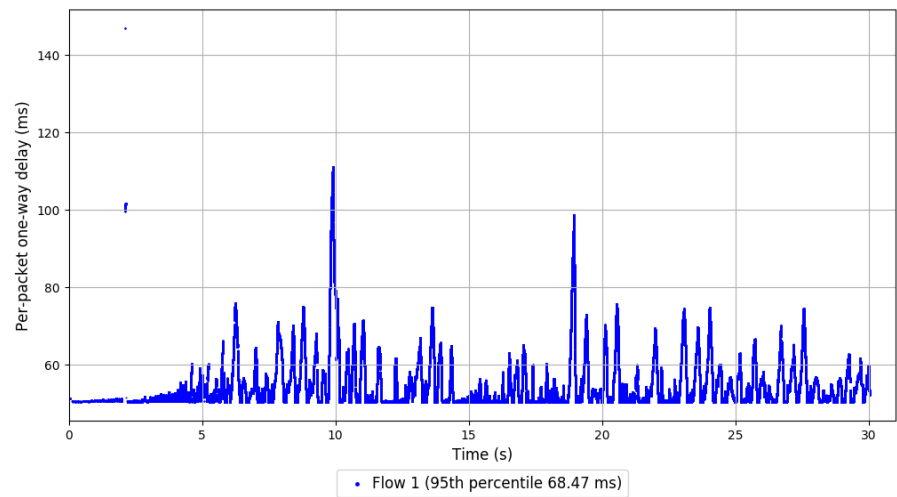
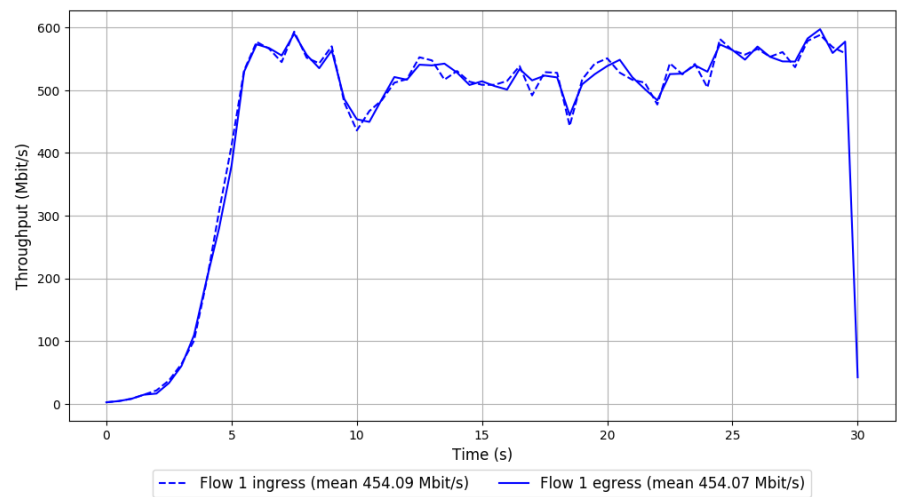
-- Flow 1:

Average throughput: 454.07 Mbit/s

95th percentile per-packet one-way delay: 68.473 ms

Loss rate: 0.01%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-09-18 05:58:24

End at: 2017-09-18 05:58:54

# Below is generated by plot.py at 2017-09-18 07:47:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 461.79 Mbit/s

95th percentile per-packet one-way delay: 64.174 ms

Loss rate: 0.00%

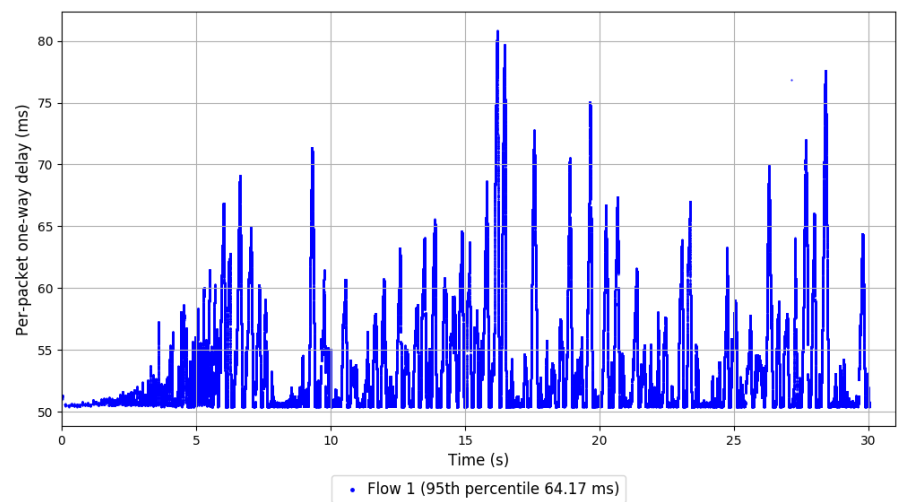
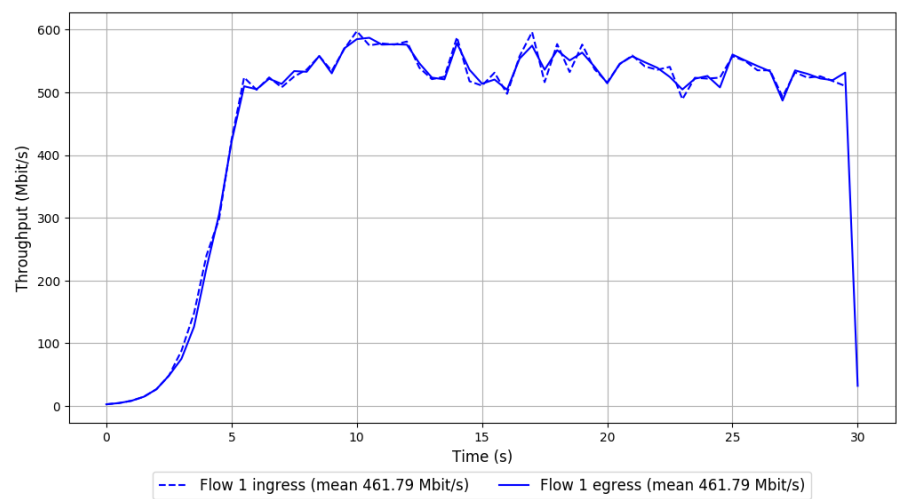
-- Flow 1:

Average throughput: 461.79 Mbit/s

95th percentile per-packet one-way delay: 64.174 ms

Loss rate: 0.00%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-09-18 06:09:41

End at: 2017-09-18 06:10:11

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 478.62 Mbit/s

95th percentile per-packet one-way delay: 69.426 ms

Loss rate: 0.13%

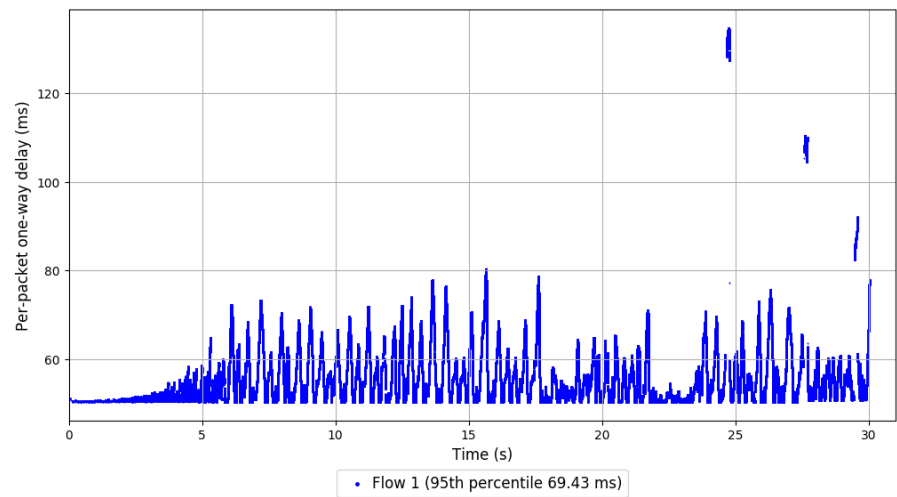
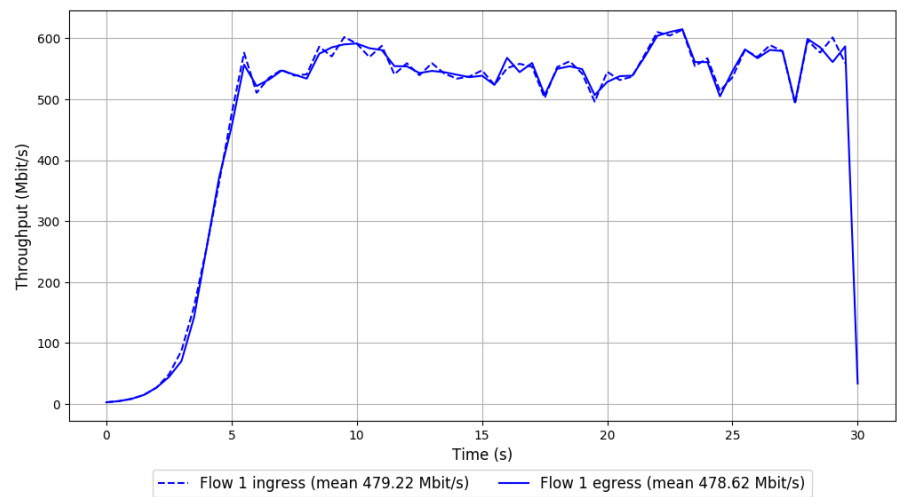
-- Flow 1:

Average throughput: 478.62 Mbit/s

95th percentile per-packet one-way delay: 69.426 ms

Loss rate: 0.13%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-09-18 04:21:41

End at: 2017-09-18 04:22:11

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 50.734 ms

Loss rate: 0.00%

-- Flow 1:

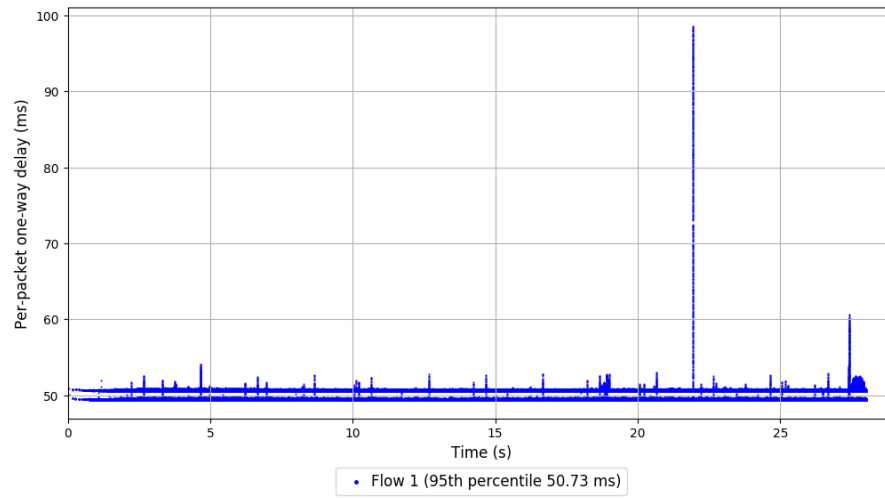
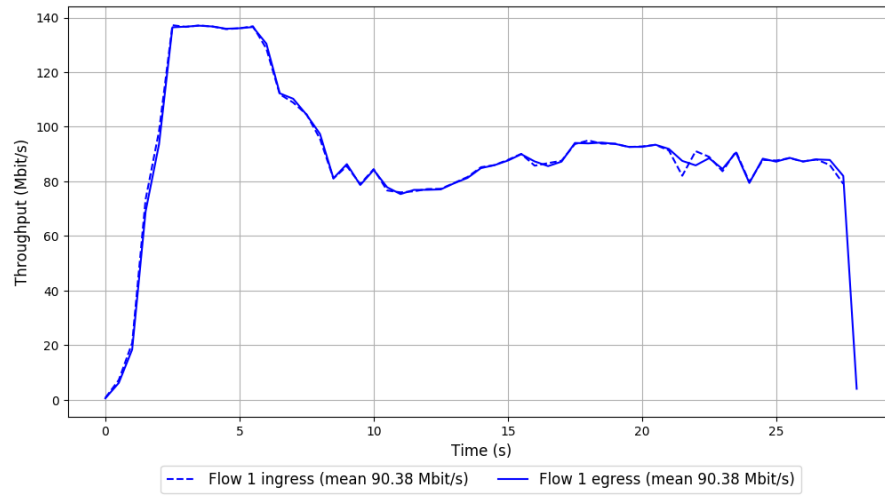
Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 50.734 ms

Loss rate: 0.00%



## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-09-18 04:32:41

End at: 2017-09-18 04:33:11

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 50.517 ms

Loss rate: 0.00%

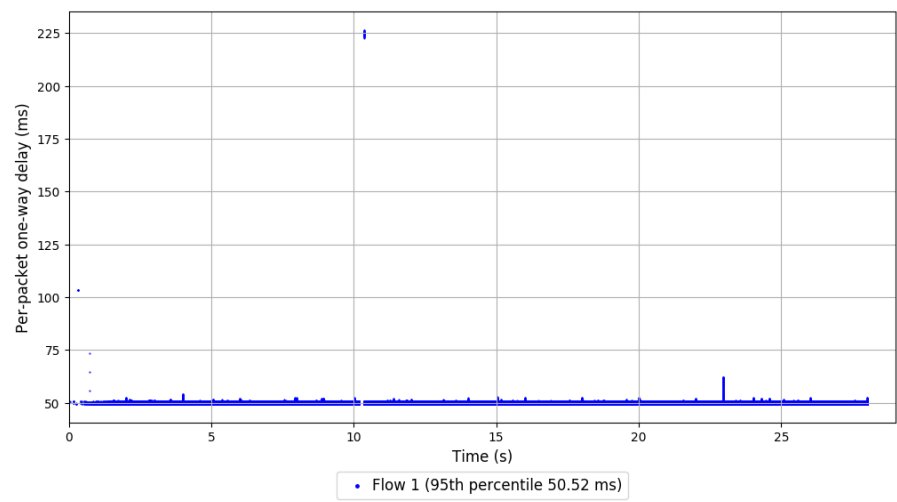
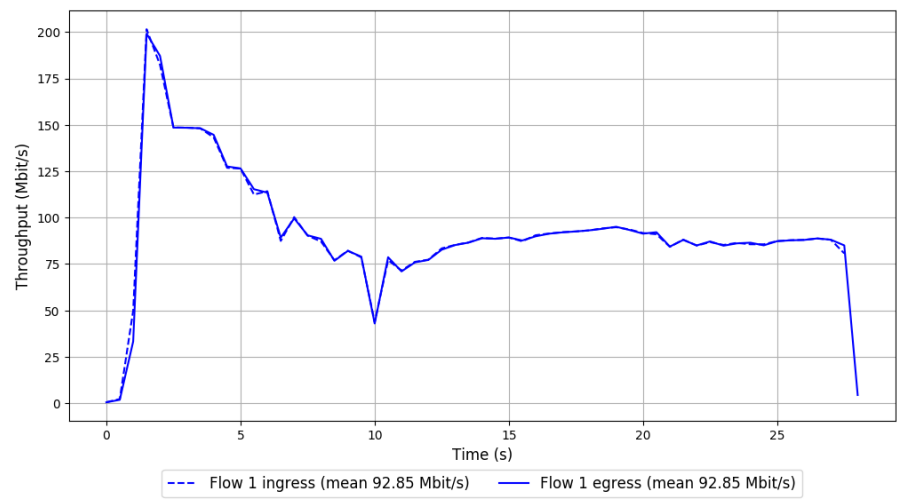
-- Flow 1:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 50.517 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-09-18 04:43:58

End at: 2017-09-18 04:44:29

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 50.961 ms

Loss rate: 0.00%

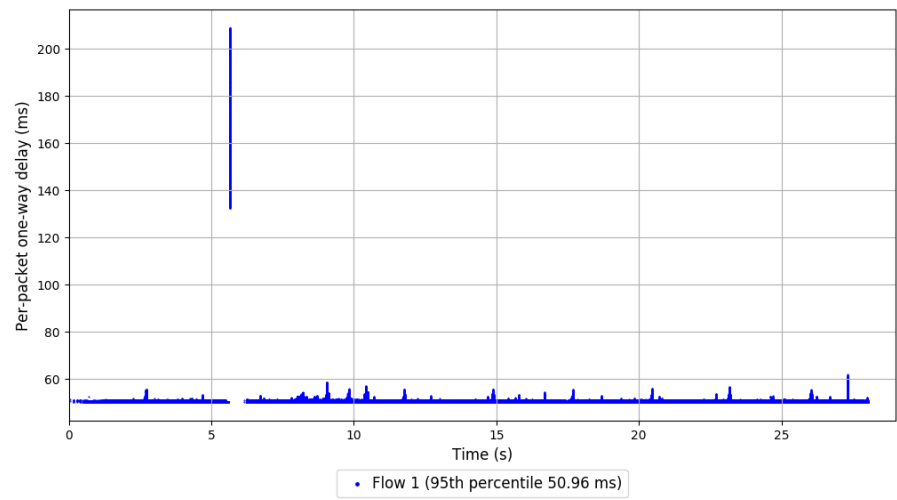
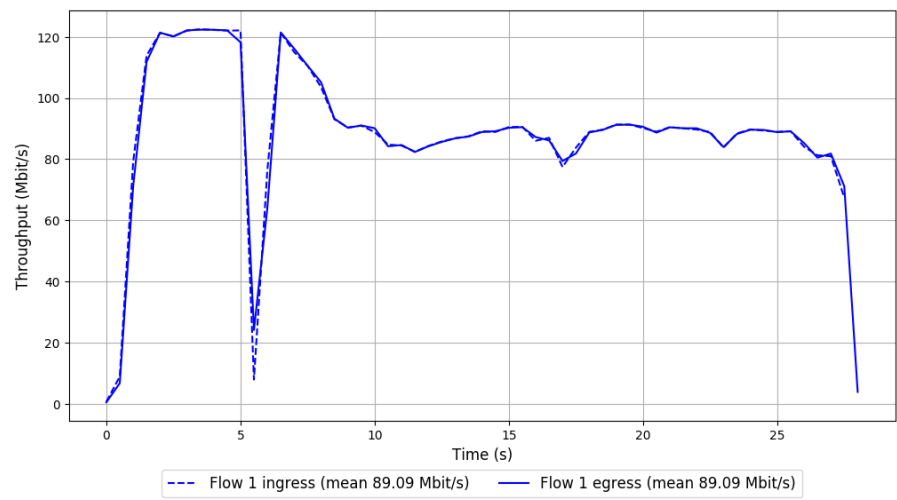
-- Flow 1:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 50.961 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-09-18 04:54:56

End at: 2017-09-18 04:55:26

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 51.400 ms

Loss rate: 0.00%

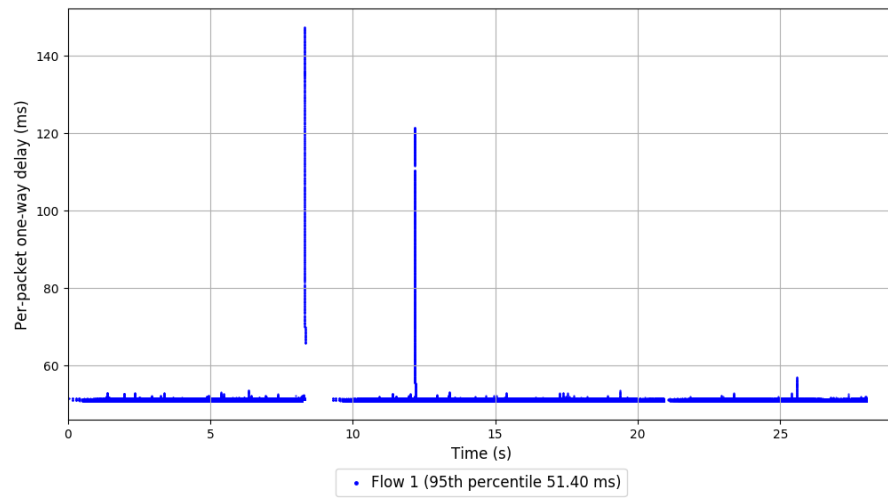
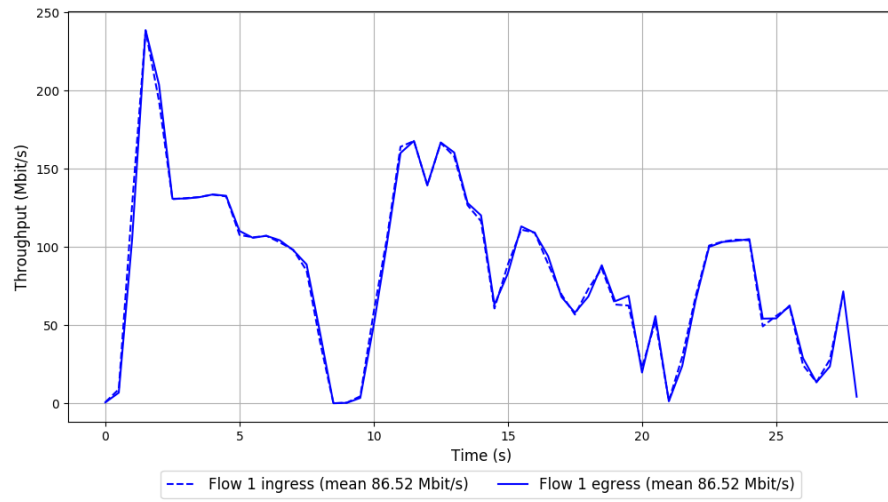
-- Flow 1:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 51.400 ms

Loss rate: 0.00%

#### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-09-18 05:06:14

End at: 2017-09-18 05:06:44

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 50.919 ms

Loss rate: 0.00%

-- Flow 1:

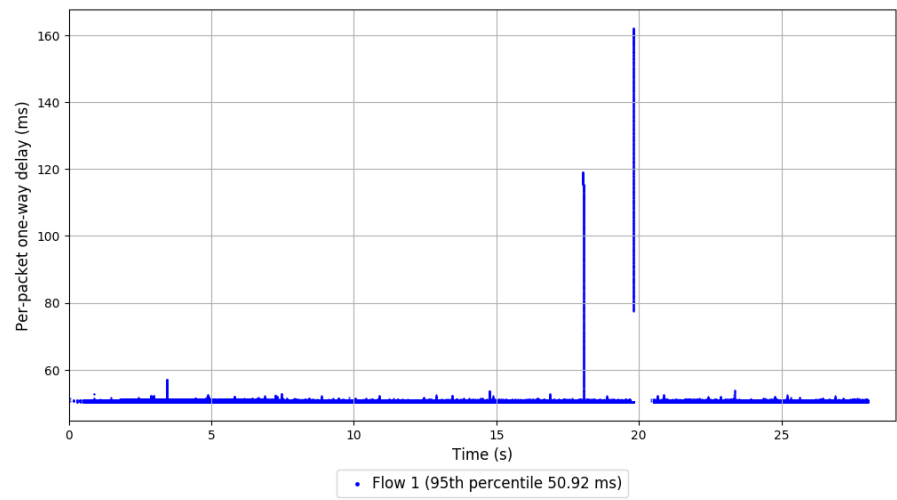
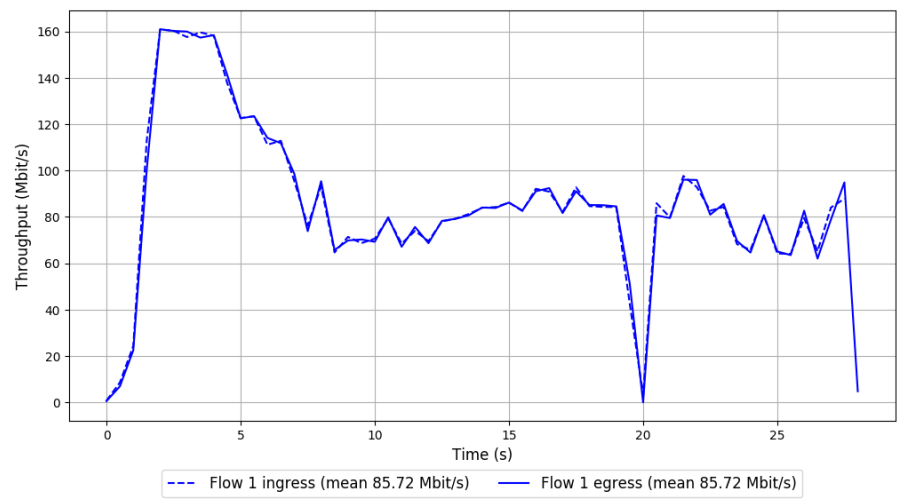
Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 50.919 ms

Loss rate: 0.00%



Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-09-18 05:17:18

End at: 2017-09-18 05:17:48

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.13 Mbit/s

95th percentile per-packet one-way delay: 50.956 ms

Loss rate: 0.00%

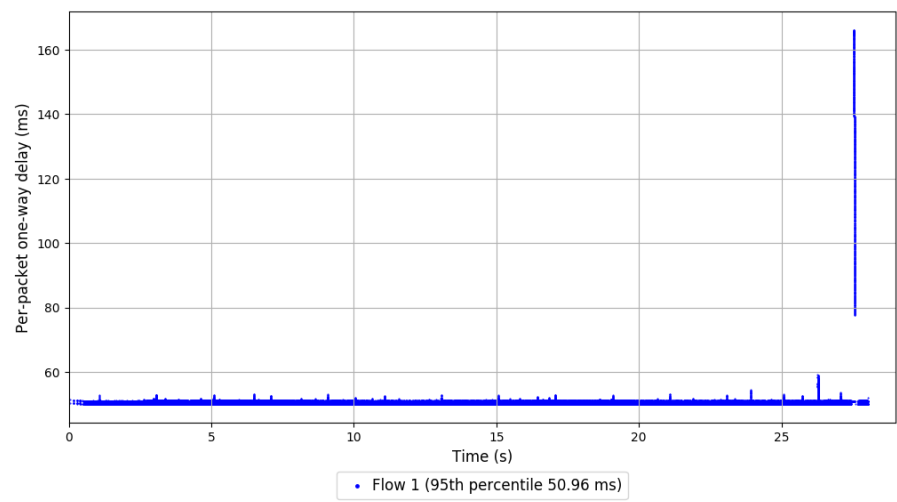
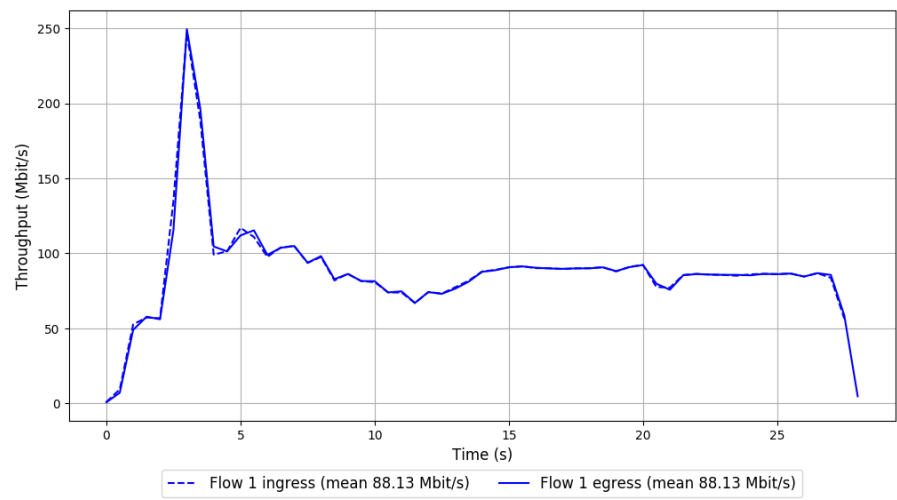
-- Flow 1:

Average throughput: 88.13 Mbit/s

95th percentile per-packet one-way delay: 50.956 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-09-18 05:28:31

End at: 2017-09-18 05:29:01

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 50.978 ms

Loss rate: 0.00%

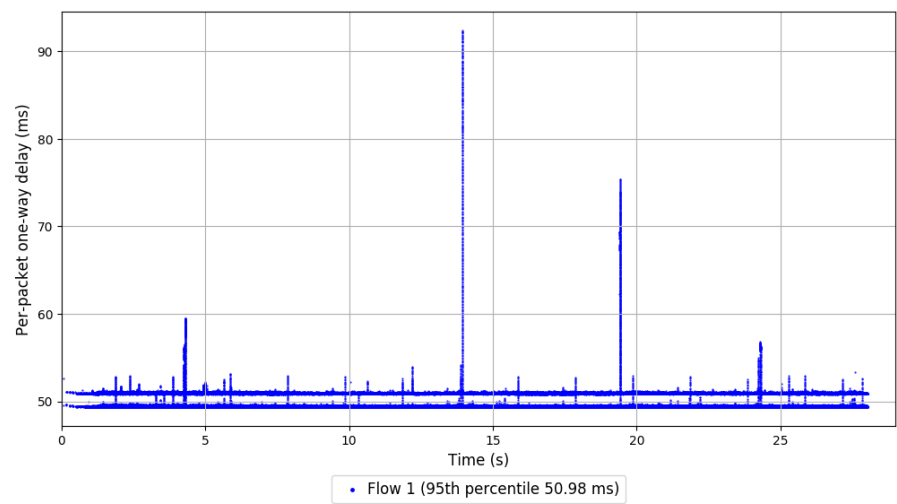
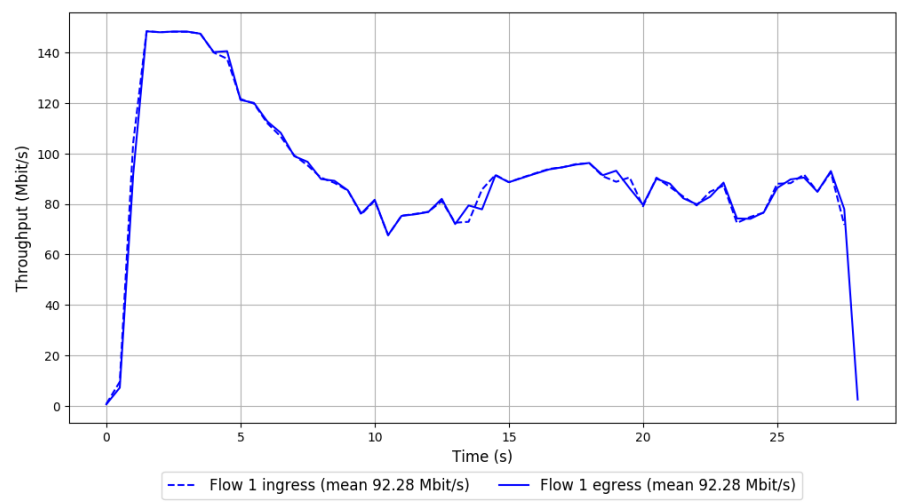
-- Flow 1:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 50.978 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-09-18 05:39:48

End at: 2017-09-18 05:40:18

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 51.000 ms

Loss rate: 0.00%

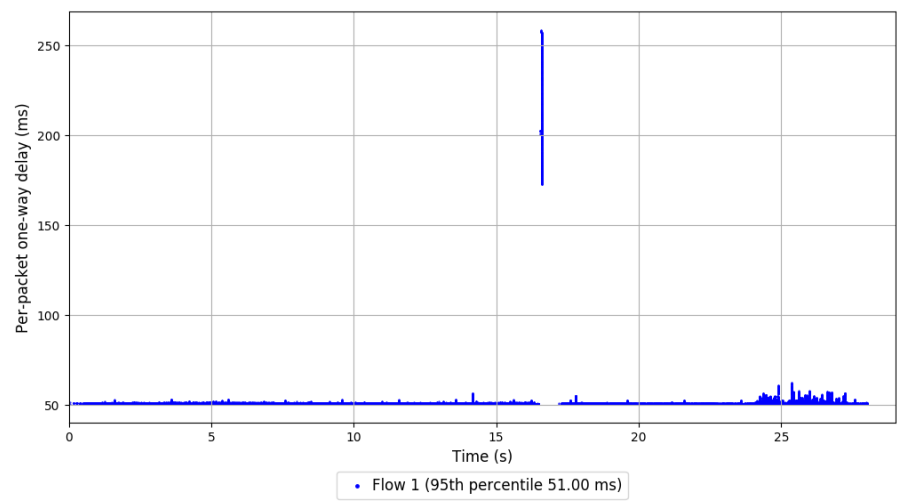
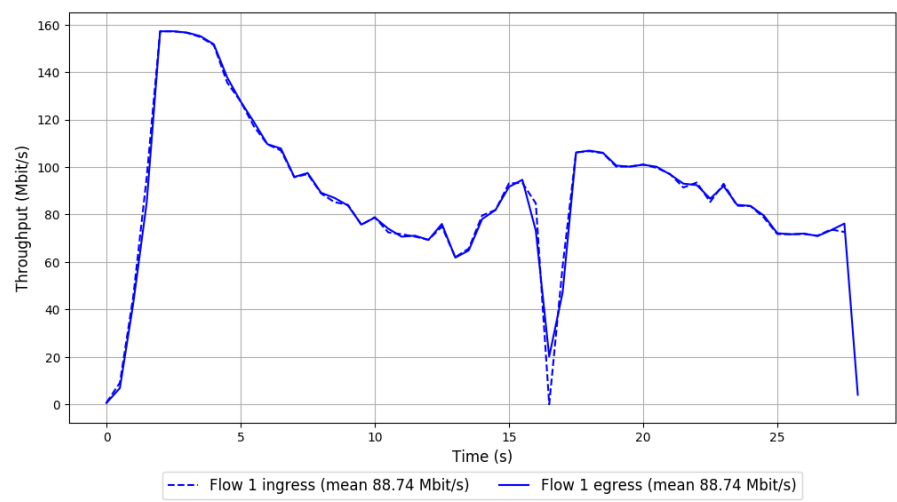
-- Flow 1:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 51.000 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-09-18 05:51:05

End at: 2017-09-18 05:51:35

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 51.557 ms

Loss rate: 0.00%

-- Flow 1:

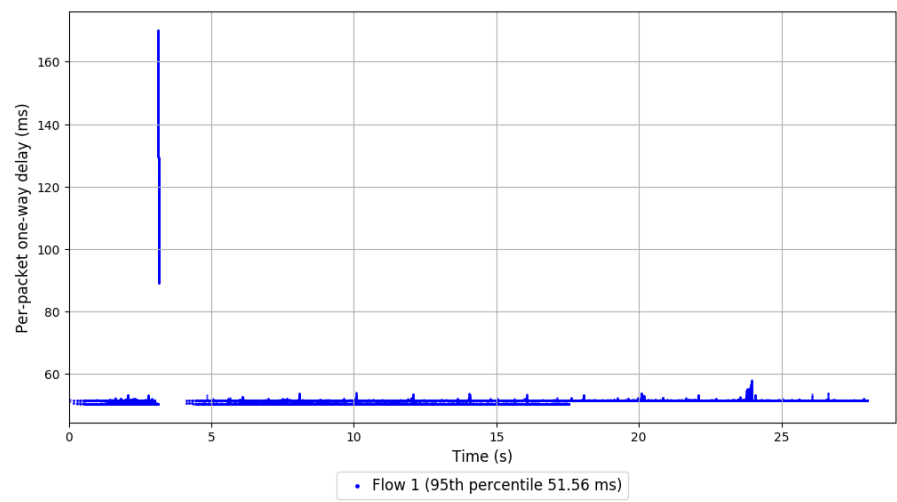
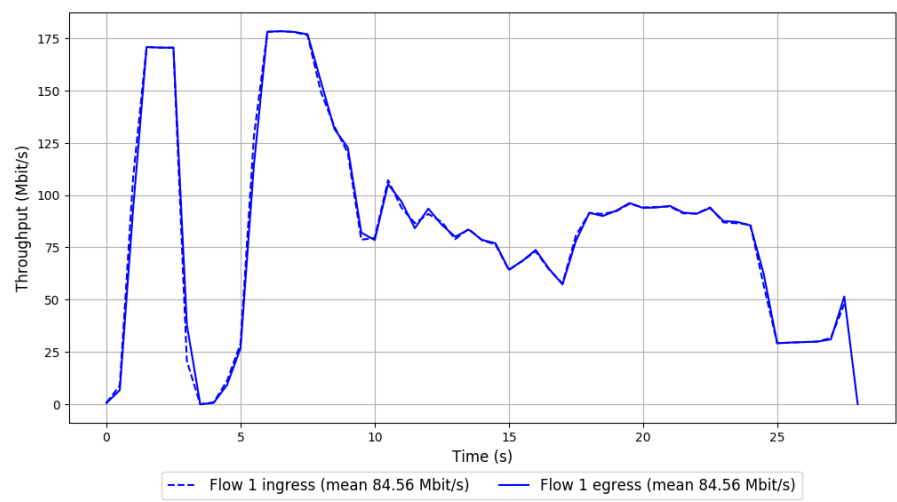
Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 51.557 ms

Loss rate: 0.00%



Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-09-18 06:02:21

End at: 2017-09-18 06:02:51

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 50.714 ms

Loss rate: 0.00%

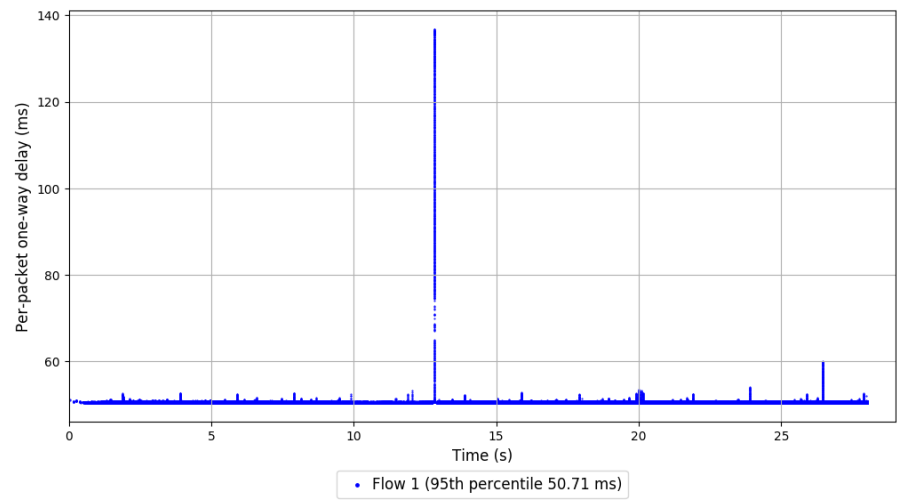
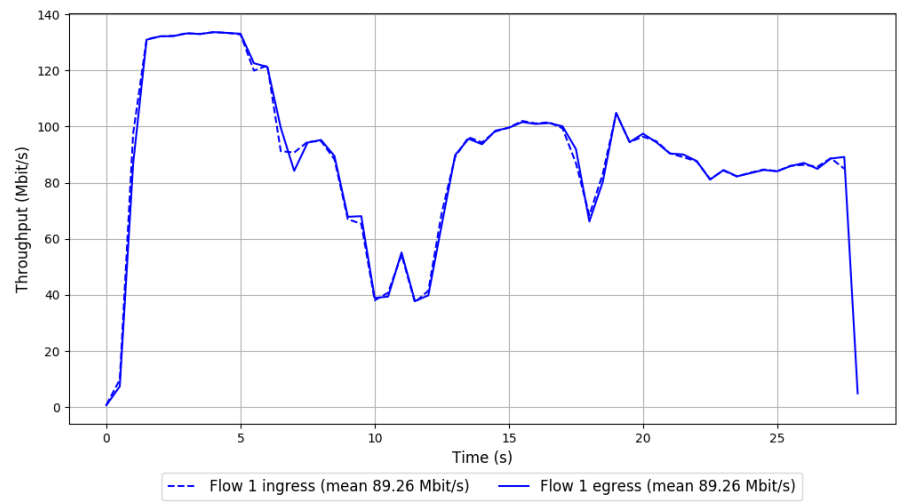
-- Flow 1:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 50.714 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 04:31:57

End at: 2017-09-18 04:32:27

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 138.26 Mbit/s

95th percentile per-packet one-way delay: 55.985 ms

Loss rate: 0.00%

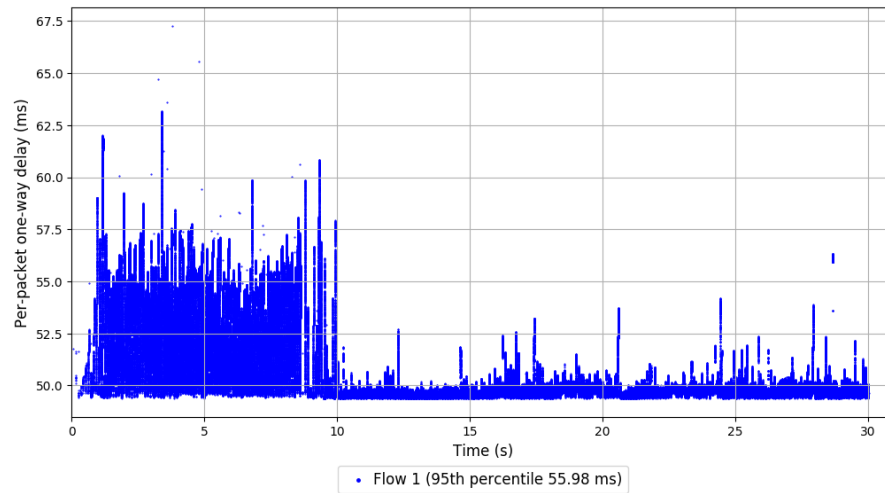
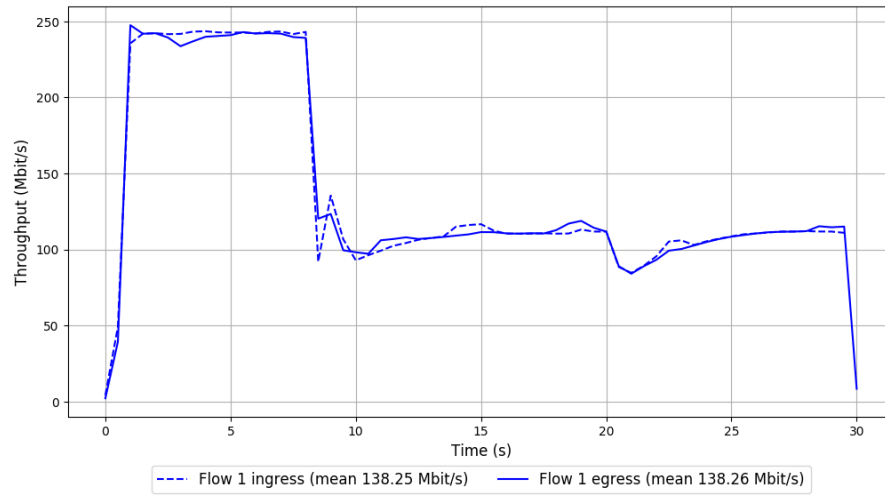
-- Flow 1:

Average throughput: 138.26 Mbit/s

95th percentile per-packet one-way delay: 55.985 ms

Loss rate: 0.00%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 04:43:16

End at: 2017-09-18 04:43:46

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 116.09 Mbit/s

95th percentile per-packet one-way delay: 56.583 ms

Loss rate: 0.00%

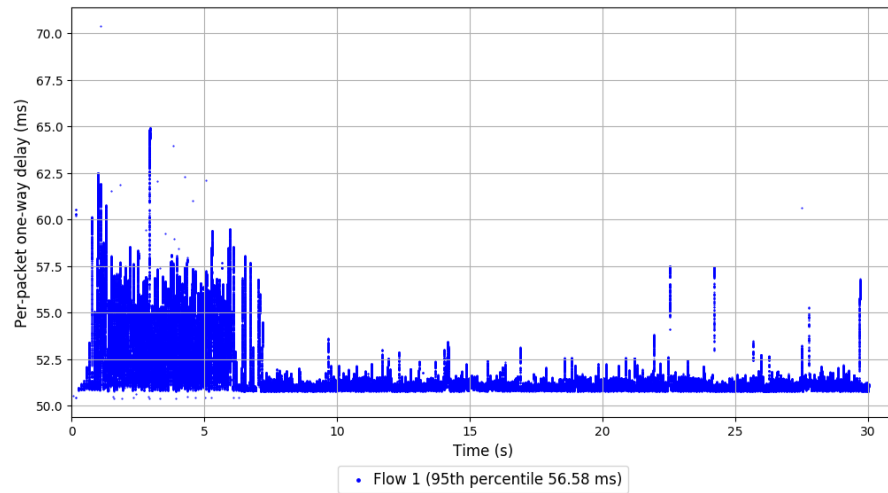
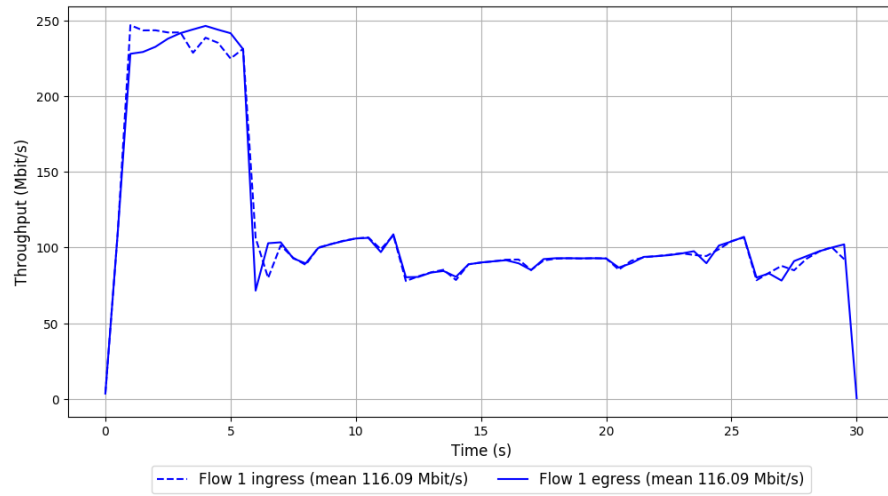
-- Flow 1:

Average throughput: 116.09 Mbit/s

95th percentile per-packet one-way delay: 56.583 ms

Loss rate: 0.00%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-18 04:54:13

End at: 2017-09-18 04:54:43

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 121.45 Mbit/s

95th percentile per-packet one-way delay: 55.881 ms

Loss rate: 0.00%

-- Flow 1:

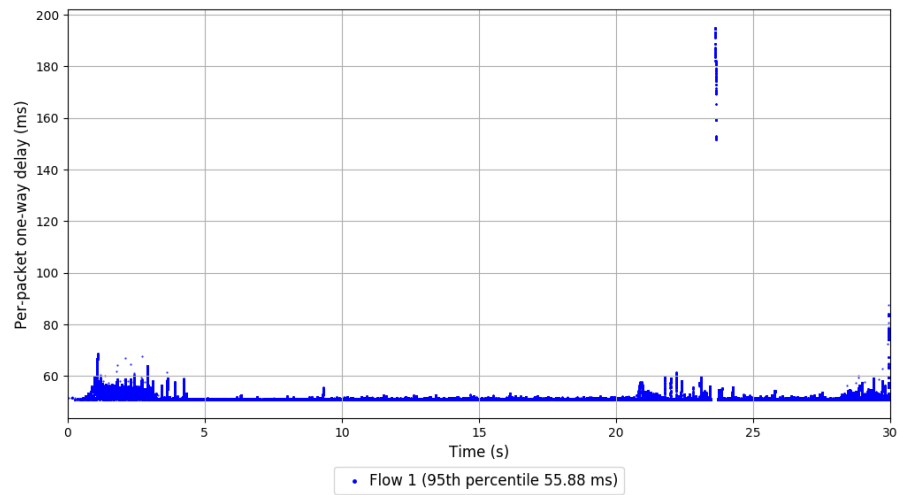
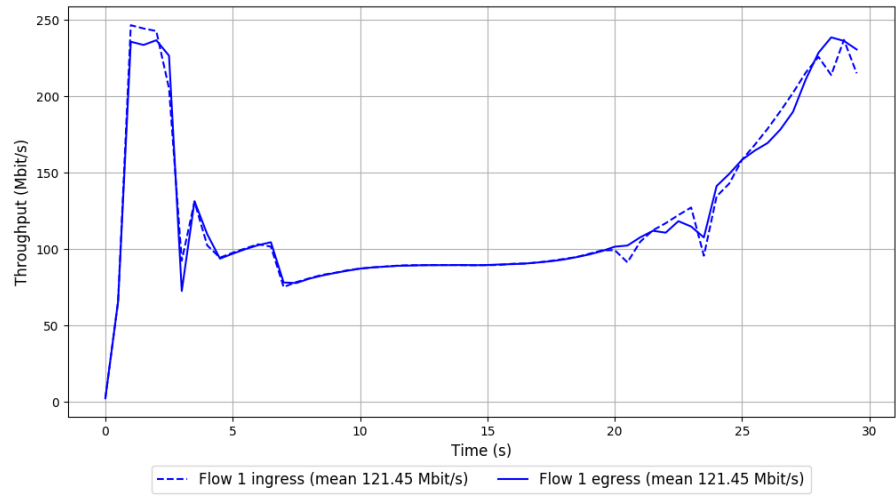
Average throughput: 121.45 Mbit/s

95th percentile per-packet one-way delay: 55.881 ms

Loss rate: 0.00%



### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 05:05:31

End at: 2017-09-18 05:06:01

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 134.79 Mbit/s

95th percentile per-packet one-way delay: 53.062 ms

Loss rate: 0.01%

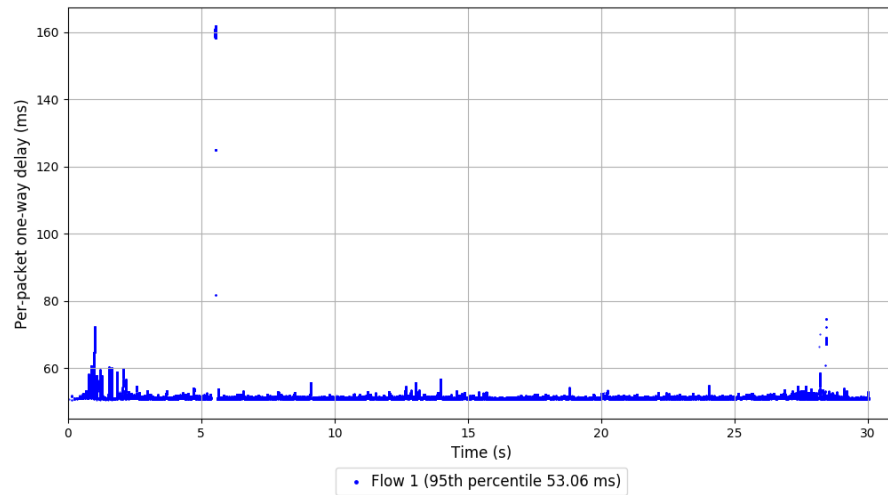
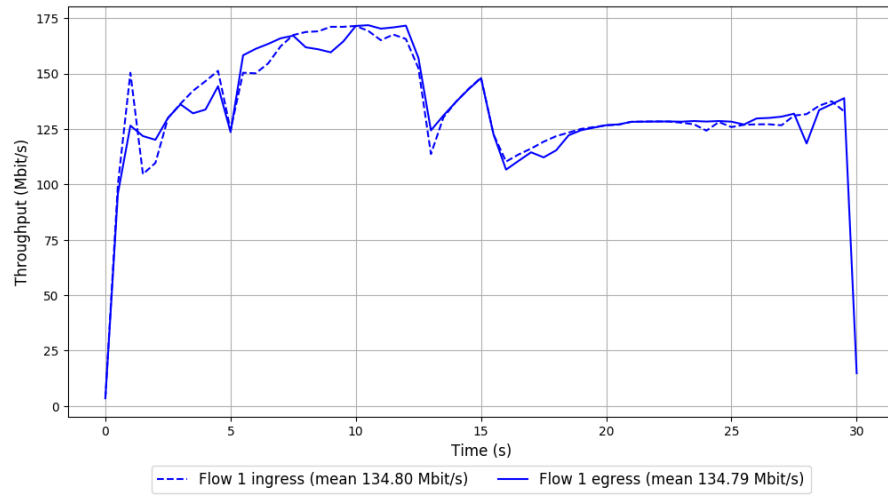
-- Flow 1:

Average throughput: 134.79 Mbit/s

95th percentile per-packet one-way delay: 53.062 ms

Loss rate: 0.01%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-18 05:16:35

End at: 2017-09-18 05:17:05

# Below is generated by plot.py at 2017-09-18 07:48:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 119.65 Mbit/s

95th percentile per-packet one-way delay: 52.060 ms

Loss rate: 0.00%

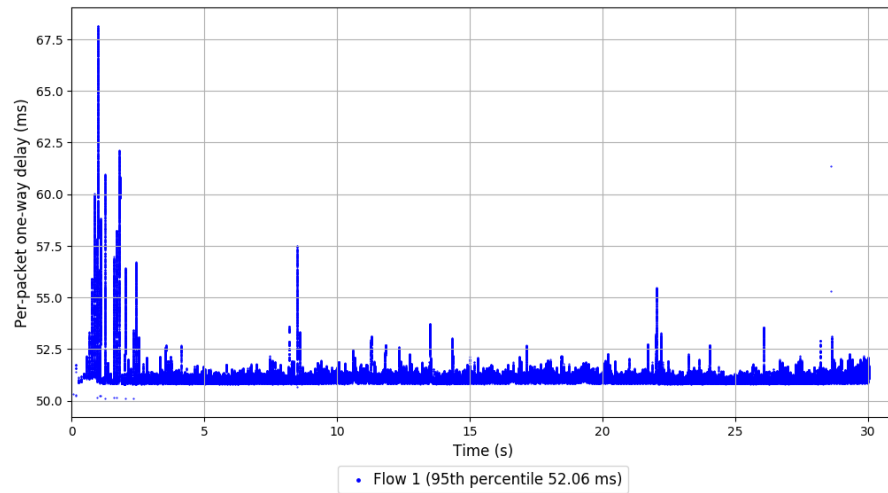
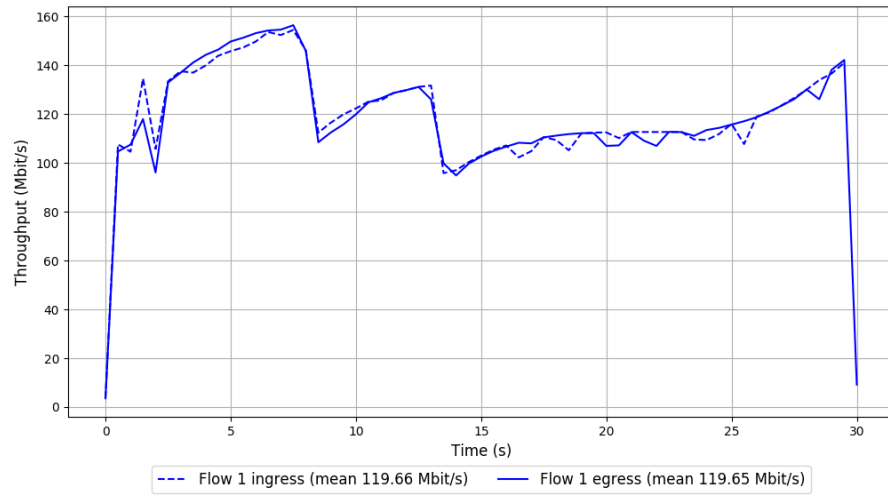
-- Flow 1:

Average throughput: 119.65 Mbit/s

95th percentile per-packet one-way delay: 52.060 ms

Loss rate: 0.00%

### Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-18 05:27:47

End at: 2017-09-18 05:28:17

# Below is generated by plot.py at 2017-09-18 07:48:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 135.85 Mbit/s

95th percentile per-packet one-way delay: 52.831 ms

Loss rate: 0.02%

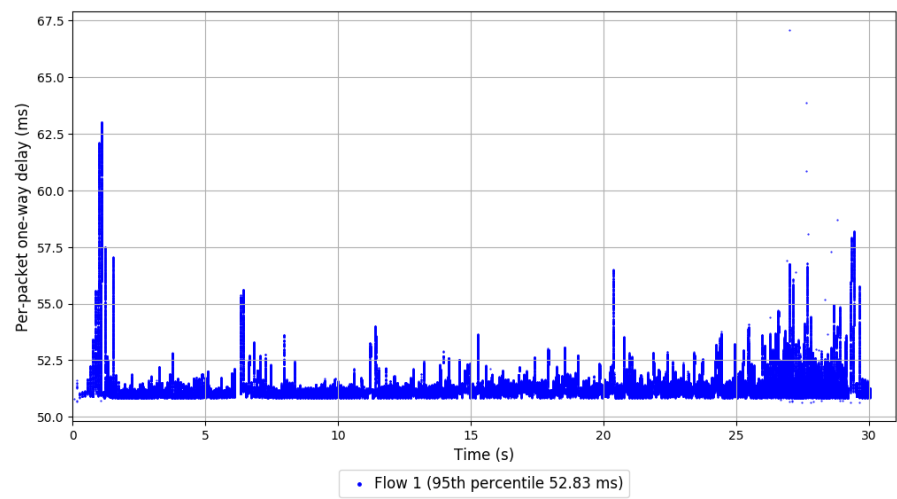
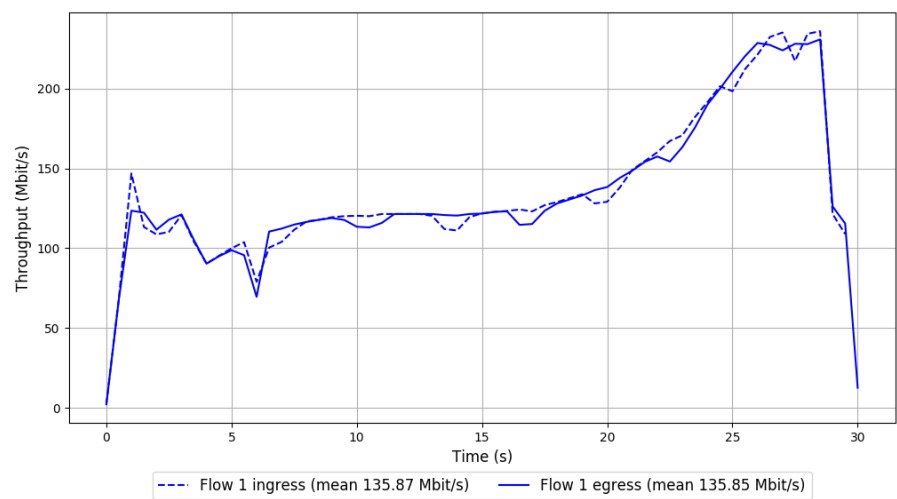
-- Flow 1:

Average throughput: 135.85 Mbit/s

95th percentile per-packet one-way delay: 52.831 ms

Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 05:39:05

End at: 2017-09-18 05:39:35

# Below is generated by plot.py at 2017-09-18 07:48:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 115.00 Mbit/s

95th percentile per-packet one-way delay: 58.730 ms

Loss rate: 0.03%

-- Flow 1:

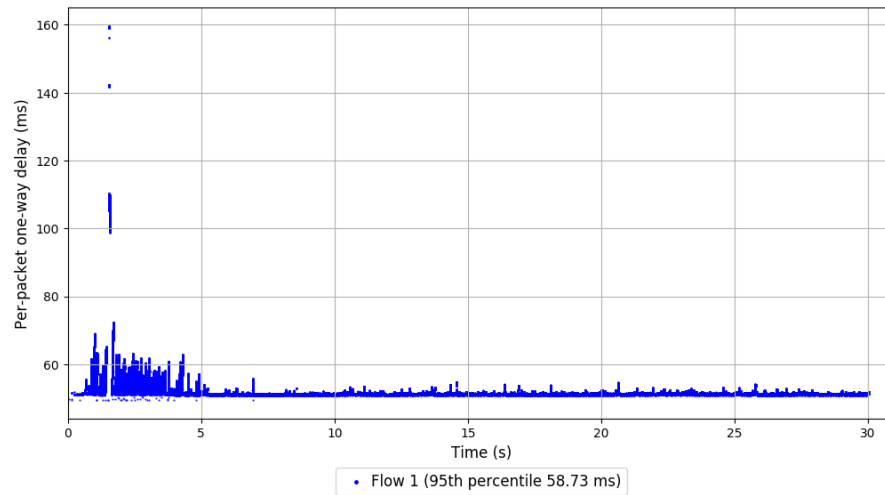
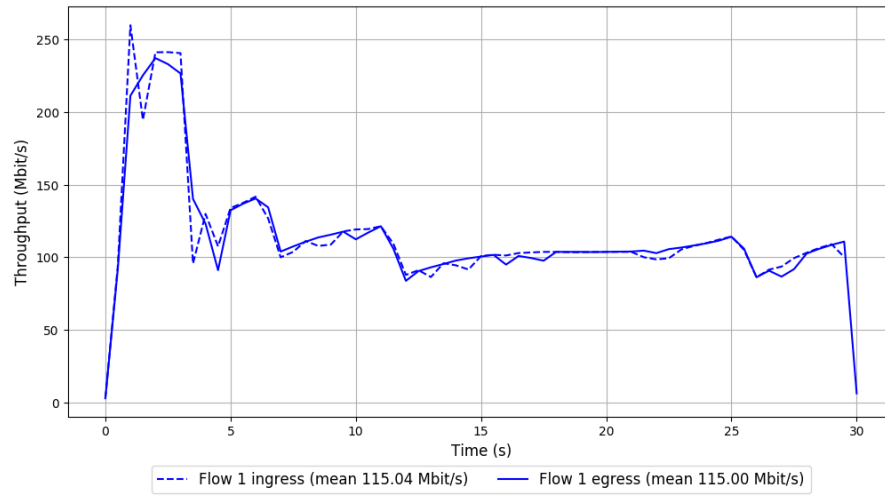
Average throughput: 115.00 Mbit/s

95th percentile per-packet one-way delay: 58.730 ms

Loss rate: 0.03%



## Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-18 05:50:21

End at: 2017-09-18 05:50:51

# Below is generated by plot.py at 2017-09-18 07:49:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 139.43 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.00%

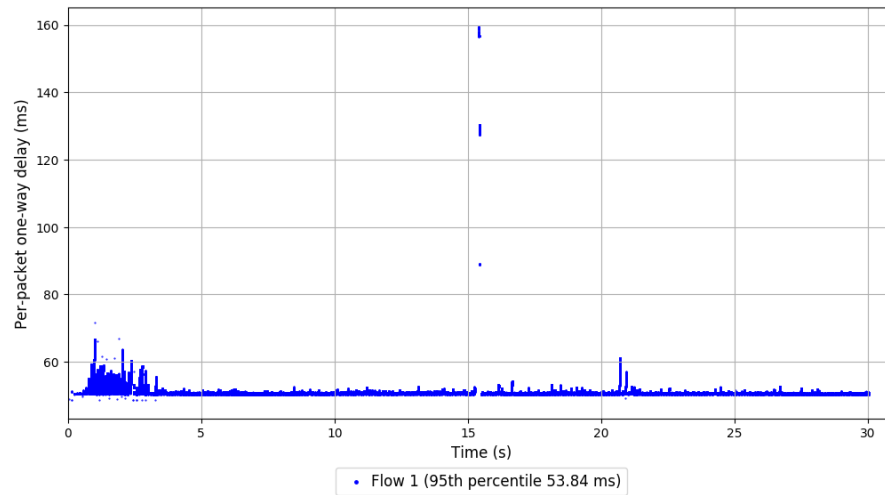
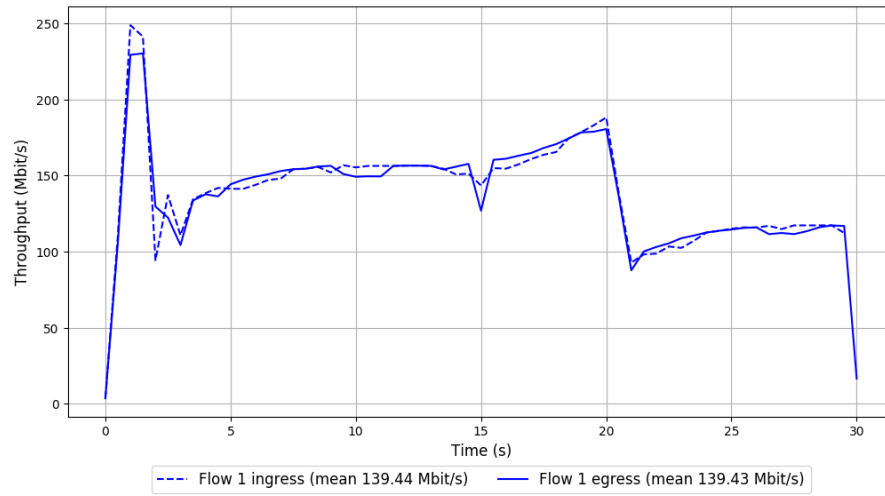
-- Flow 1:

Average throughput: 139.43 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.00%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 06:01:39

End at: 2017-09-18 06:02:09

# Below is generated by plot.py at 2017-09-18 07:49:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 101.64 Mbit/s

95th percentile per-packet one-way delay: 54.081 ms

Loss rate: 0.00%

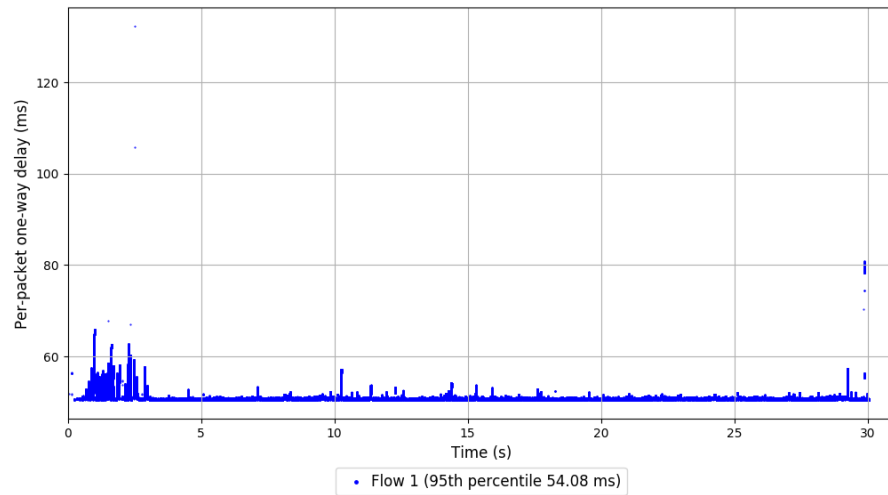
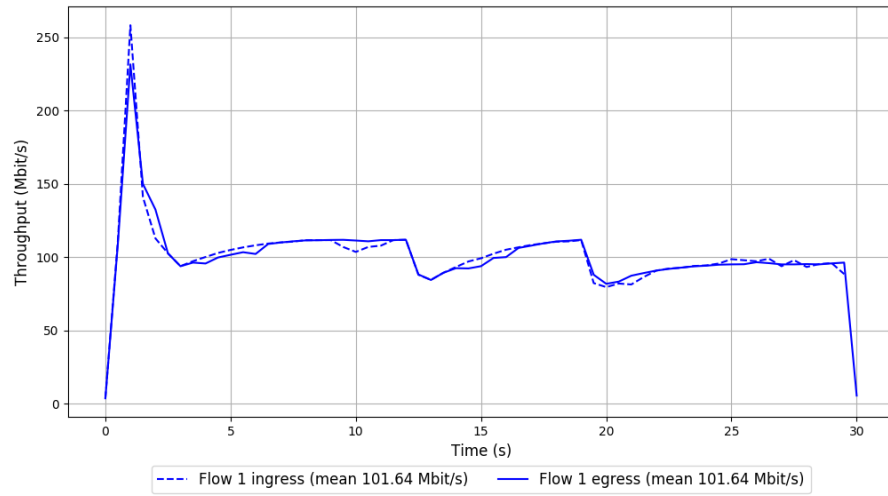
-- Flow 1:

Average throughput: 101.64 Mbit/s

95th percentile per-packet one-way delay: 54.081 ms

Loss rate: 0.00%

### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 06:12:43

End at: 2017-09-18 06:13:13

# Below is generated by plot.py at 2017-09-18 07:49:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 134.37 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.01%

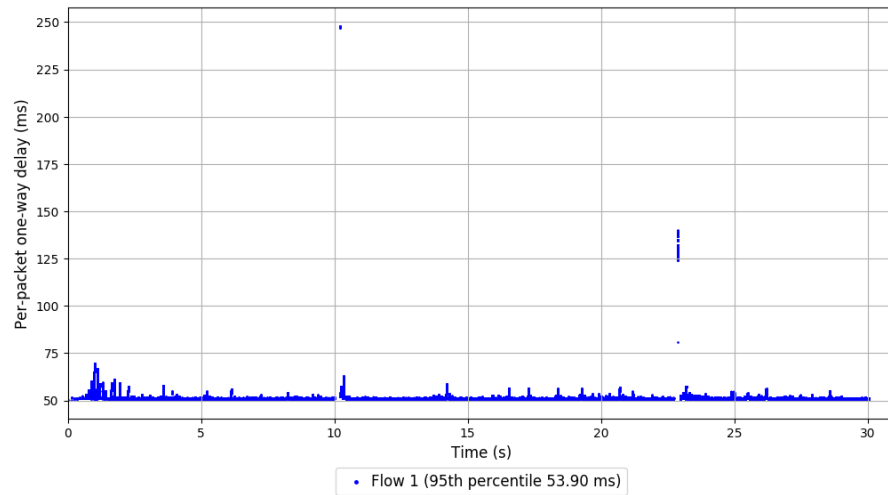
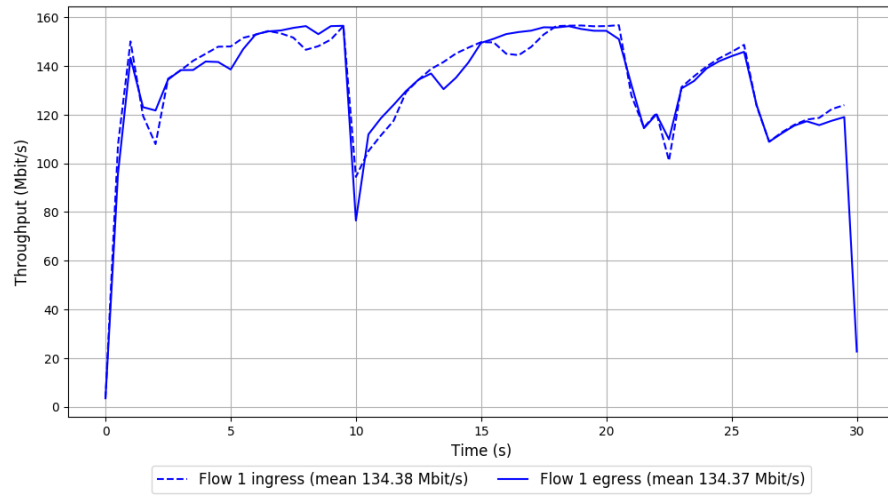
-- Flow 1:

Average throughput: 134.37 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.01%

### Run 10: Report of TCP Cubic — Data Link



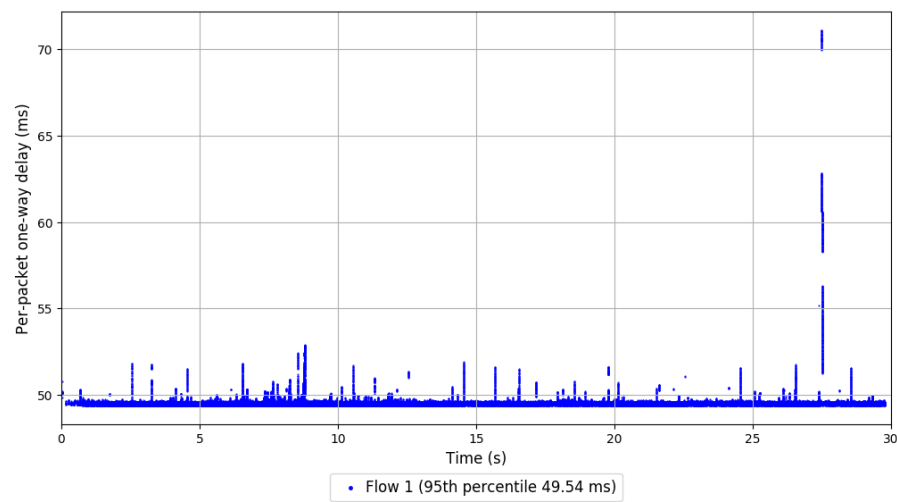
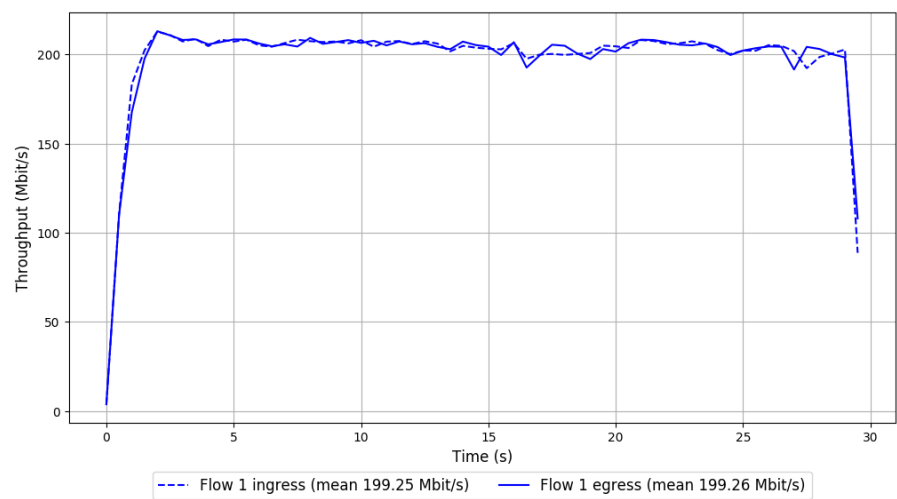
```
Run 1: Statistics of Indigo

Start at: 2017-09-18 04:24:38
End at: 2017-09-18 04:25:08

# Below is generated by plot.py at 2017-09-18 07:51:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.26 Mbit/s
95th percentile per-packet one-way delay: 49.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.26 Mbit/s
95th percentile per-packet one-way delay: 49.543 ms
Loss rate: 0.00%
```



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-18 04:35:40

End at: 2017-09-18 04:36:10

# Below is generated by plot.py at 2017-09-18 07:51:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 194.72 Mbit/s

95th percentile per-packet one-way delay: 49.549 ms

Loss rate: 0.00%

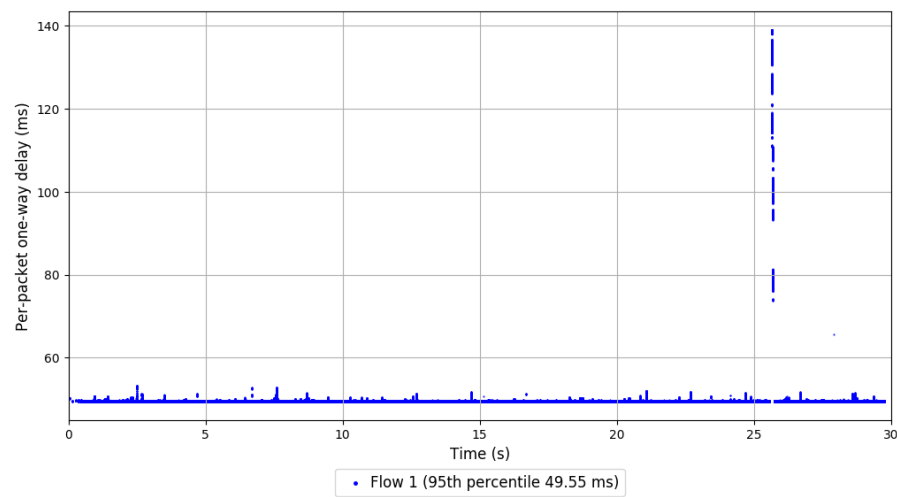
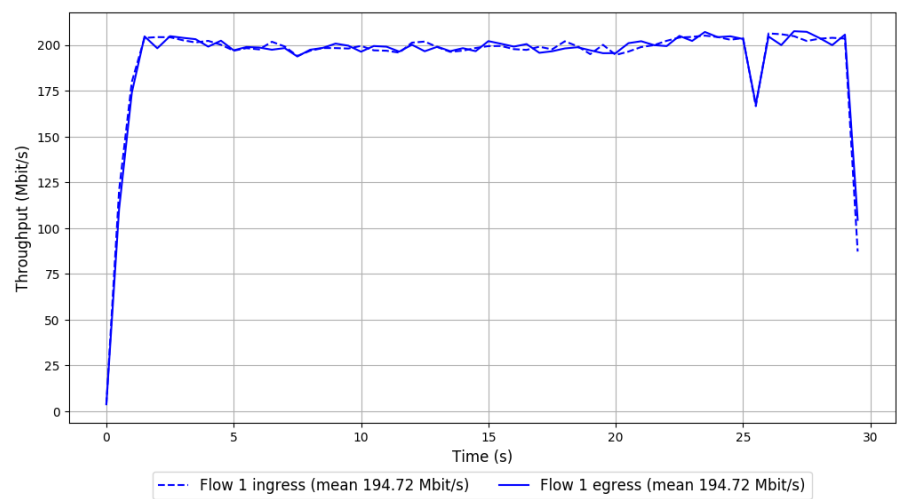
-- Flow 1:

Average throughput: 194.72 Mbit/s

95th percentile per-packet one-way delay: 49.549 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-18 04:46:52

End at: 2017-09-18 04:47:22

# Below is generated by plot.py at 2017-09-18 07:51:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 198.56 Mbit/s

95th percentile per-packet one-way delay: 50.952 ms

Loss rate: 0.00%

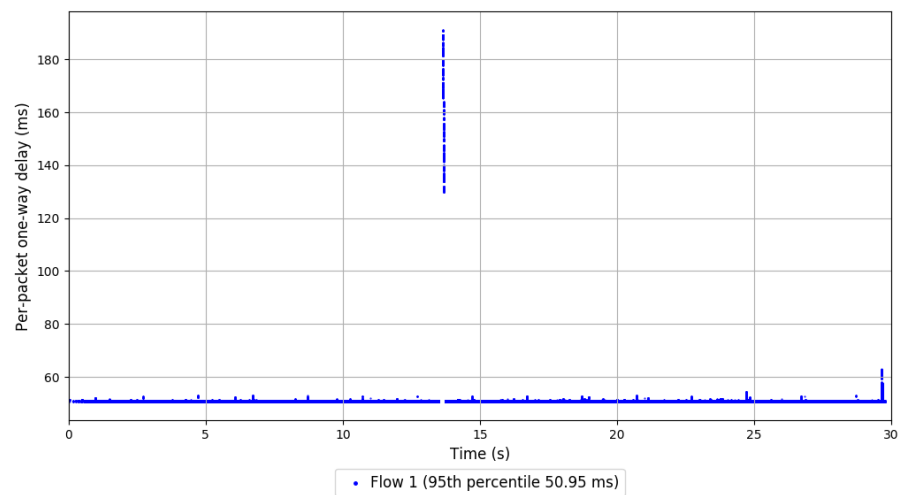
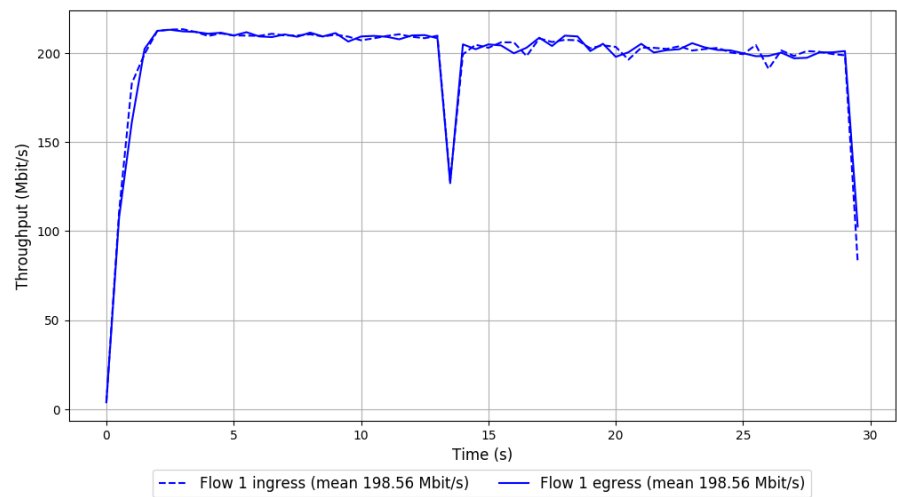
-- Flow 1:

Average throughput: 198.56 Mbit/s

95th percentile per-packet one-way delay: 50.952 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-18 04:57:54

End at: 2017-09-18 04:58:24

# Below is generated by plot.py at 2017-09-18 07:51:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 188.55 Mbit/s

95th percentile per-packet one-way delay: 50.933 ms

Loss rate: 0.01%

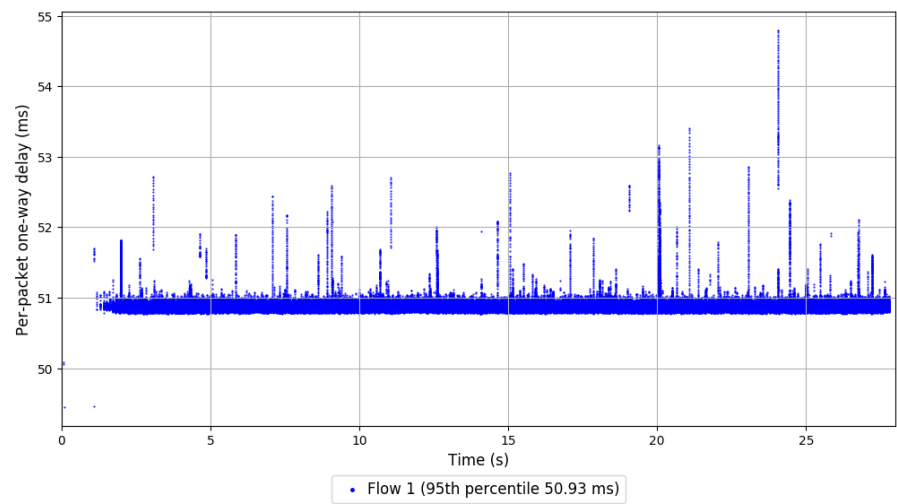
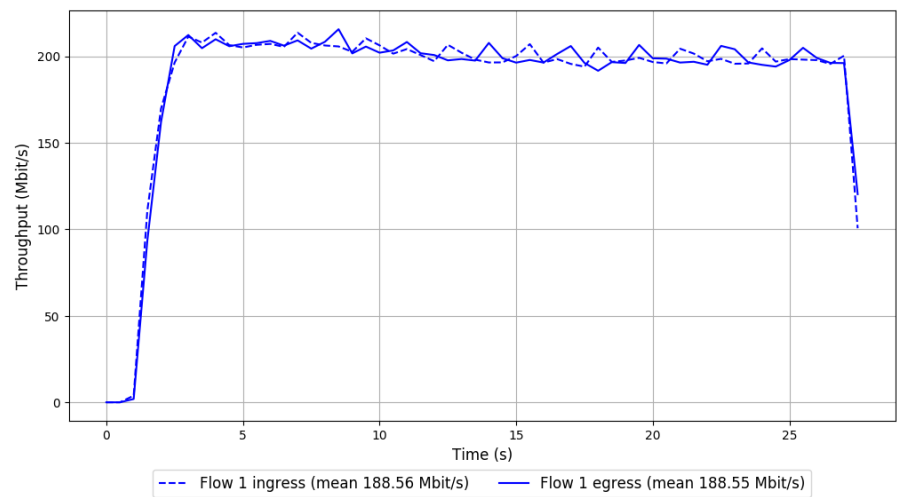
-- Flow 1:

Average throughput: 188.55 Mbit/s

95th percentile per-packet one-way delay: 50.933 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-18 05:09:08

End at: 2017-09-18 05:09:38

# Below is generated by plot.py at 2017-09-18 07:52:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.86 Mbit/s

95th percentile per-packet one-way delay: 50.719 ms

Loss rate: 0.00%

-- Flow 1:

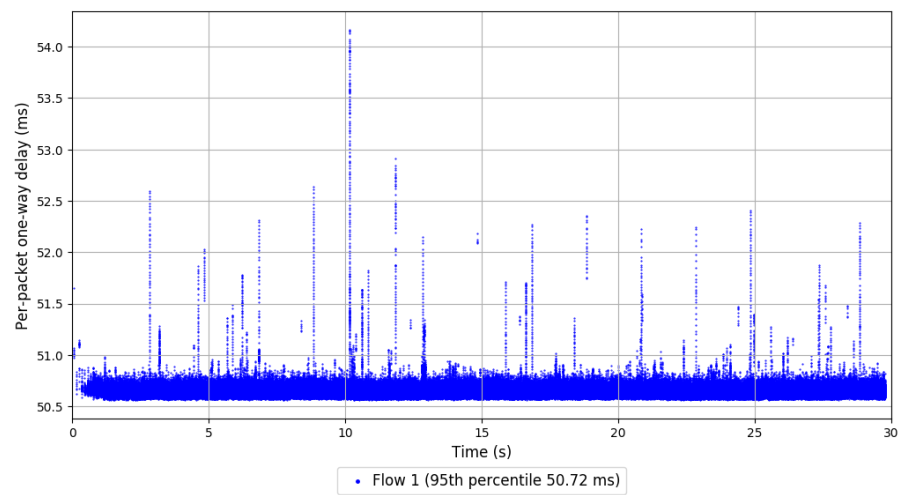
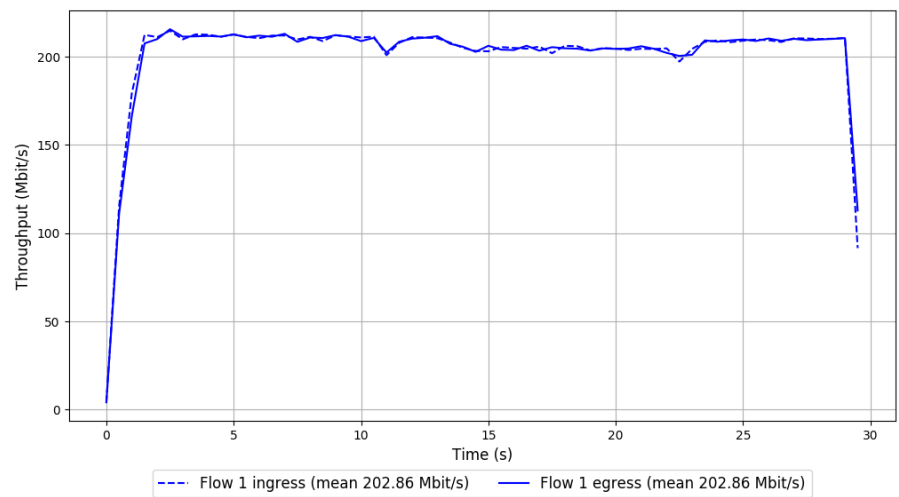
Average throughput: 202.86 Mbit/s

95th percentile per-packet one-way delay: 50.719 ms

Loss rate: 0.00%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-18 05:20:13

End at: 2017-09-18 05:20:43

# Below is generated by plot.py at 2017-09-18 07:52:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 194.69 Mbit/s

95th percentile per-packet one-way delay: 51.013 ms

Loss rate: 0.00%

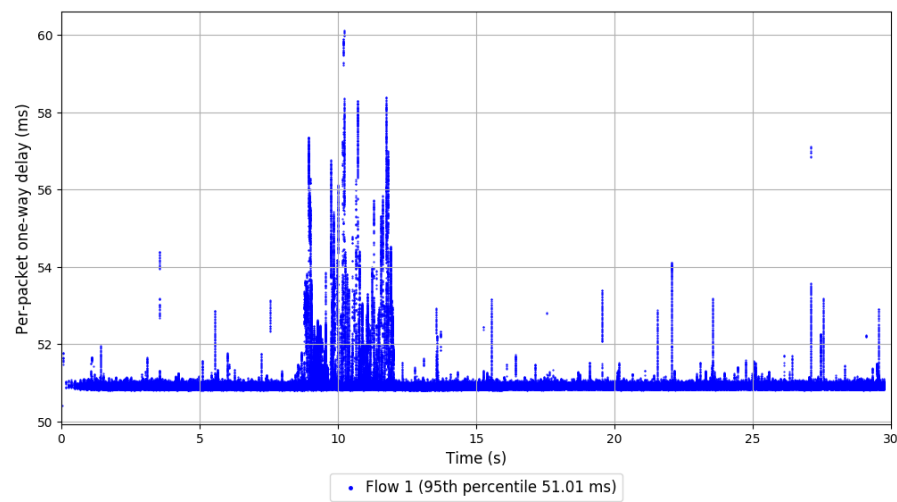
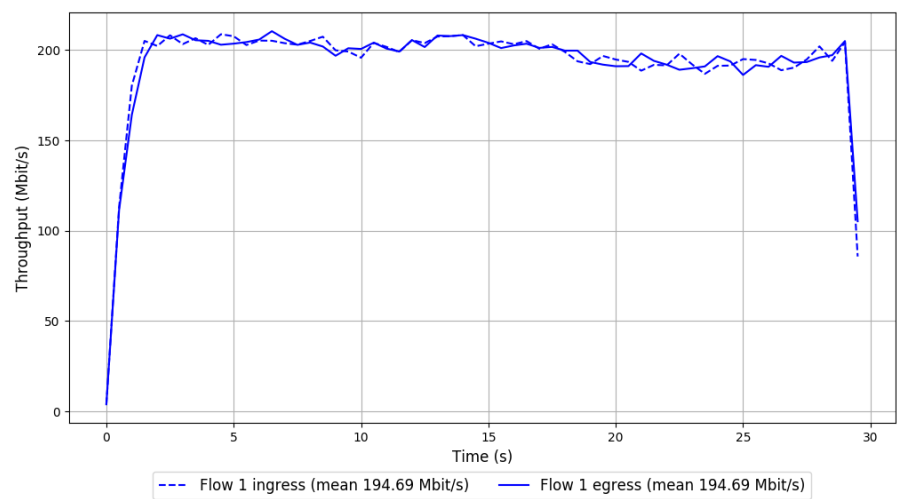
-- Flow 1:

Average throughput: 194.69 Mbit/s

95th percentile per-packet one-way delay: 51.013 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-18 05:31:30

End at: 2017-09-18 05:32:00

# Below is generated by plot.py at 2017-09-18 07:53:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 201.42 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.00%

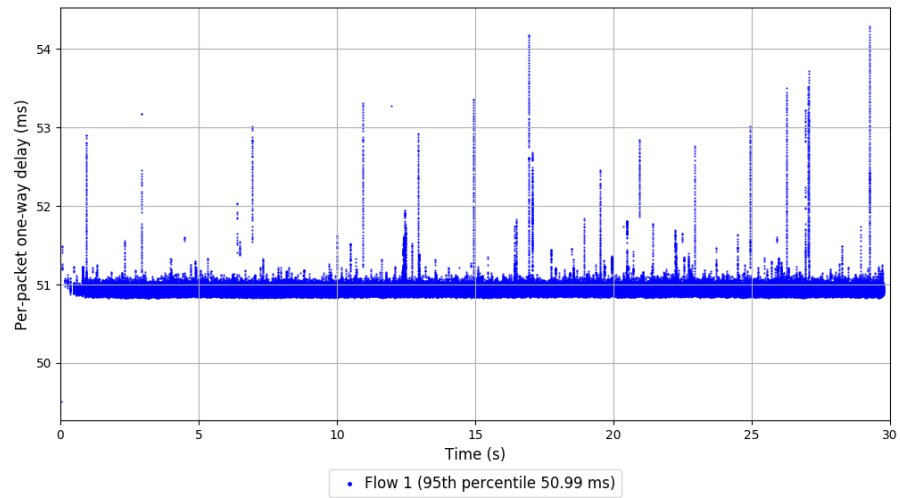
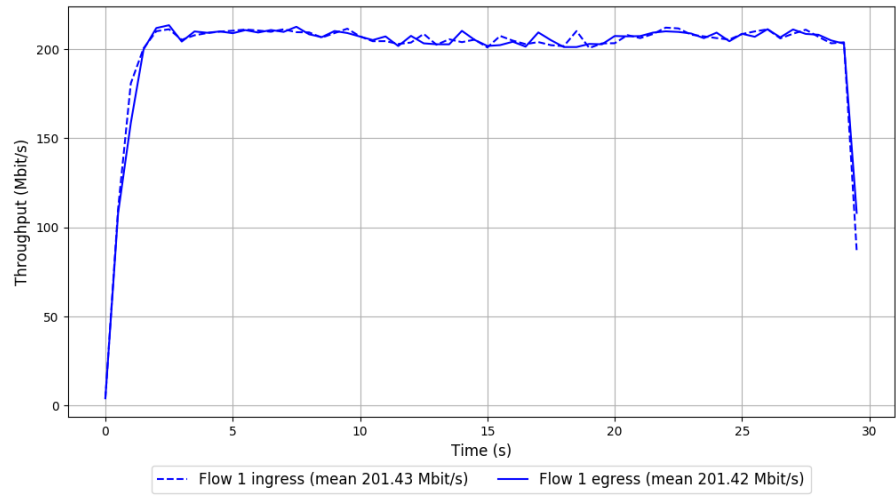
-- Flow 1:

Average throughput: 201.42 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.00%

## Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-18 05:42:43

End at: 2017-09-18 05:43:13

# Below is generated by plot.py at 2017-09-18 07:53:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 195.35 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.00%

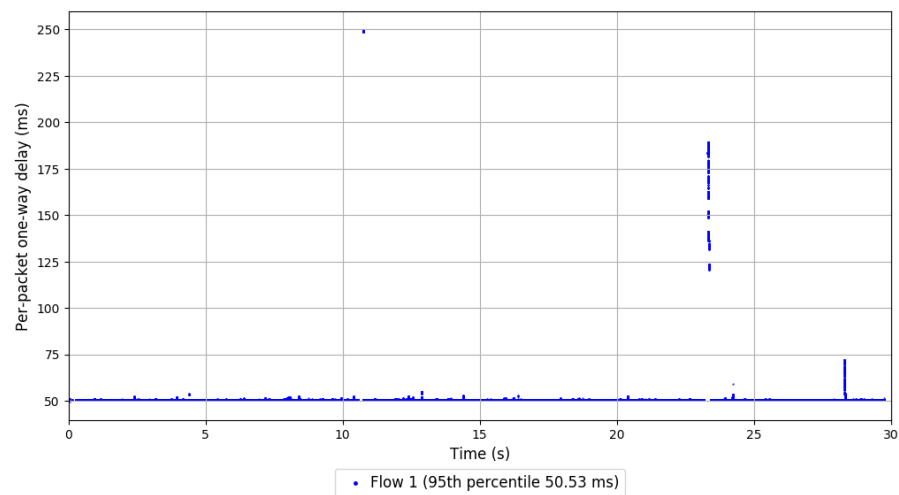
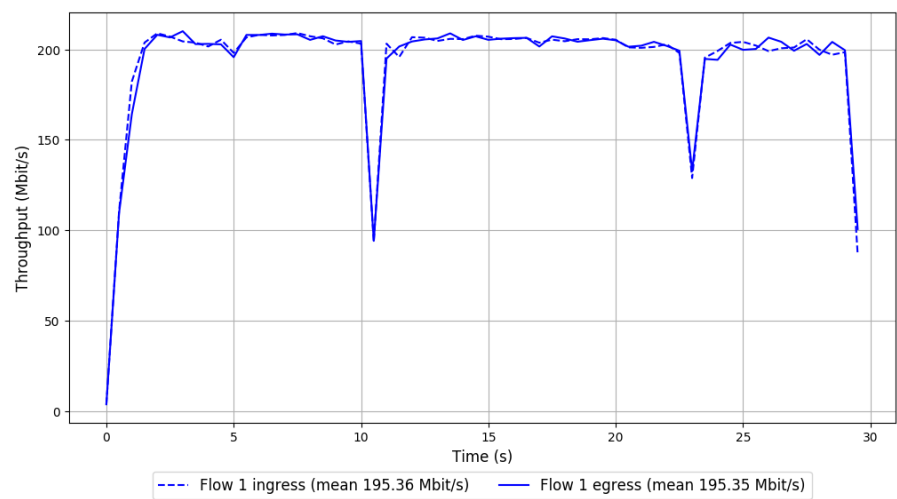
-- Flow 1:

Average throughput: 195.35 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-18 05:54:00

End at: 2017-09-18 05:54:30

# Below is generated by plot.py at 2017-09-18 07:54:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 201.94 Mbit/s

95th percentile per-packet one-way delay: 50.547 ms

Loss rate: 0.00%

-- Flow 1:

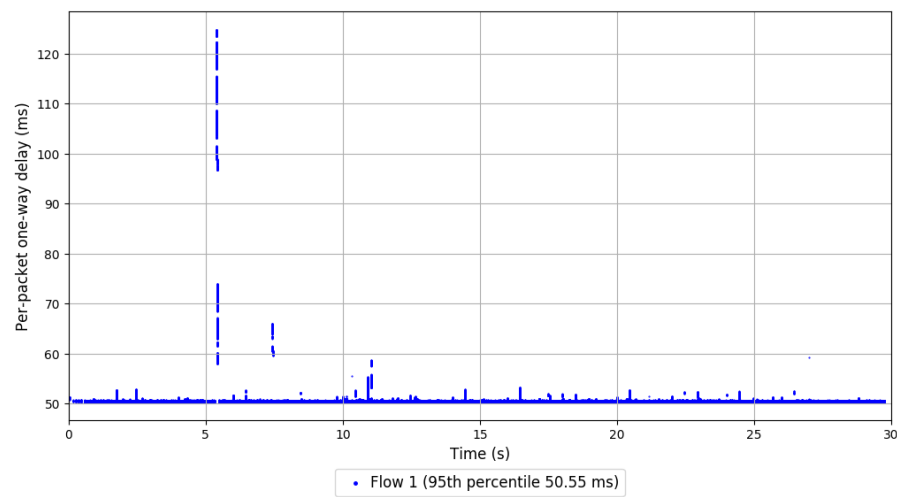
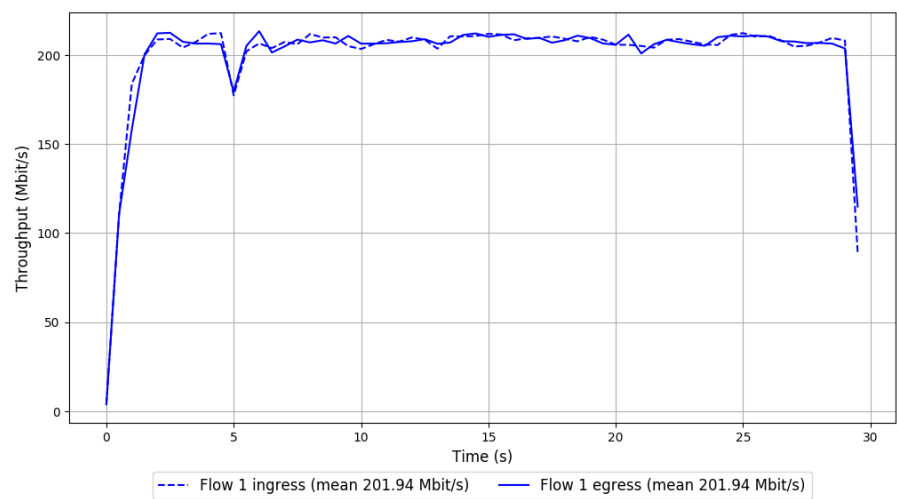
Average throughput: 201.94 Mbit/s

95th percentile per-packet one-way delay: 50.547 ms

Loss rate: 0.00%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-18 06:05:17

End at: 2017-09-18 06:05:47

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 198.77 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.00%

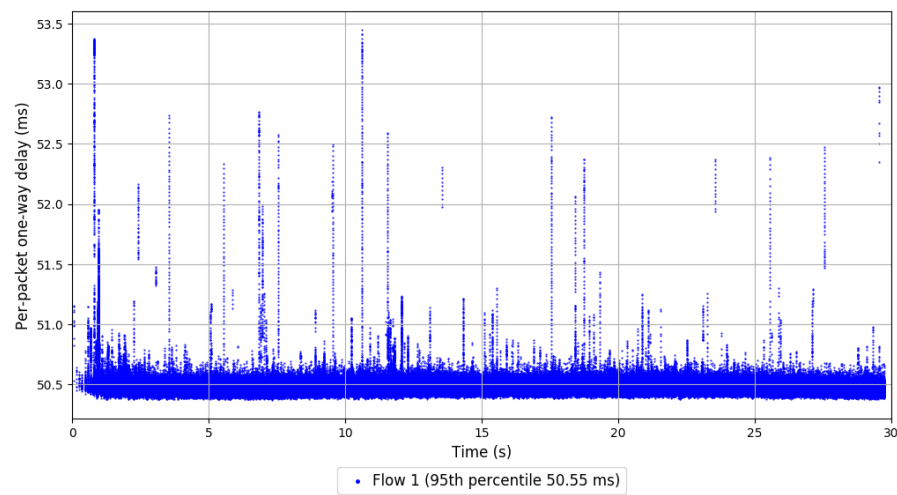
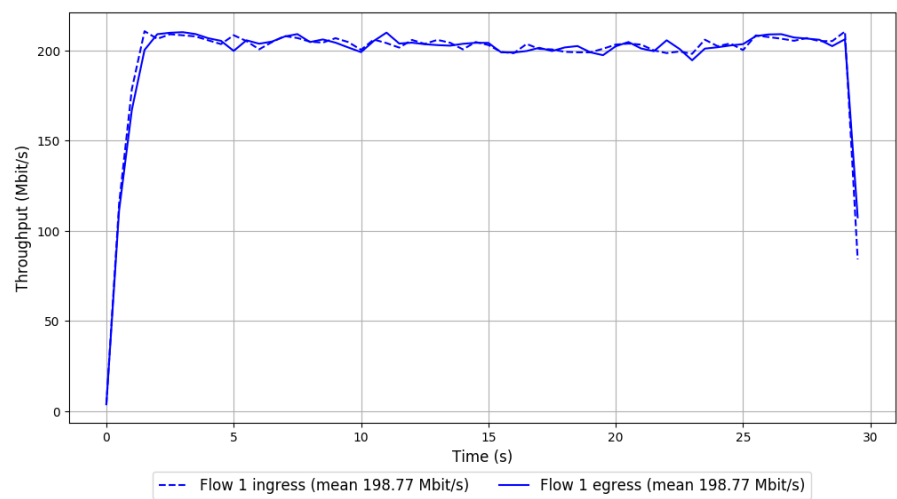
-- Flow 1:

Average throughput: 198.77 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

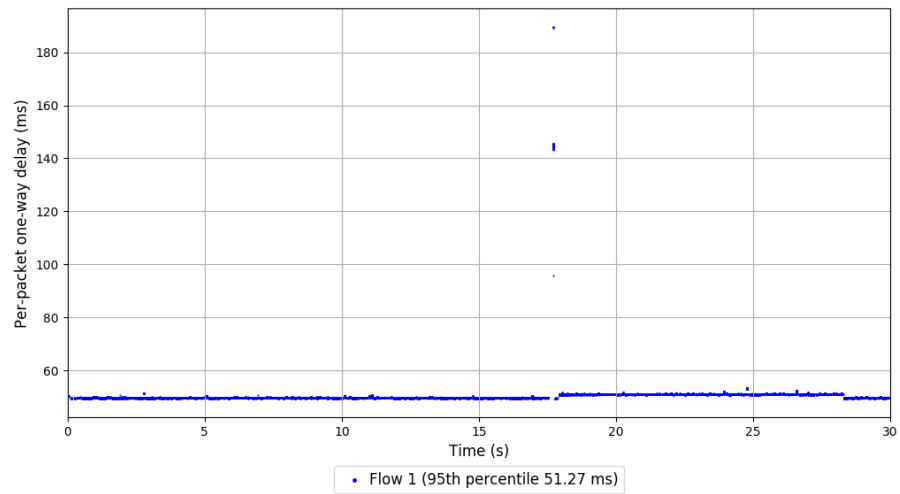
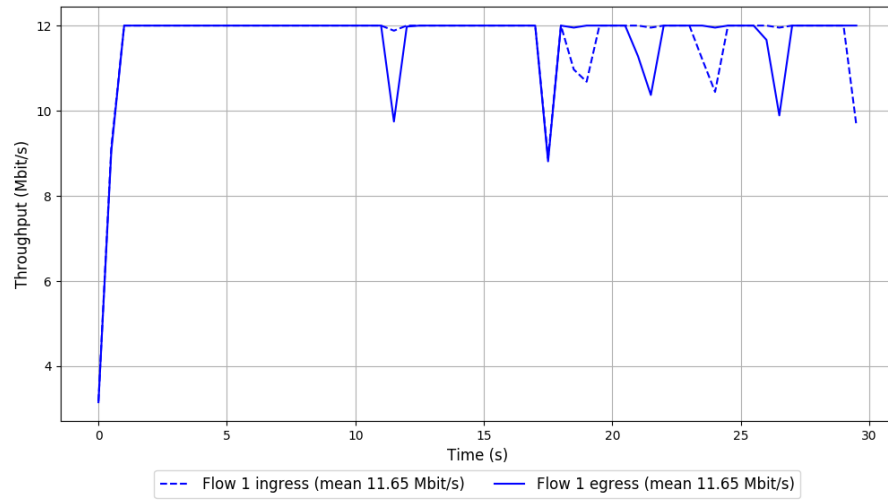


```
Run 1: Statistics of KohoCC

Start at: 2017-09-18 04:26:48
End at: 2017-09-18 04:27:18

# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 51.265 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 51.265 ms
Loss rate: 0.01%
```

### Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: 2017-09-18 04:37:51

End at: 2017-09-18 04:38:21

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 50.041 ms

Loss rate: 0.00%

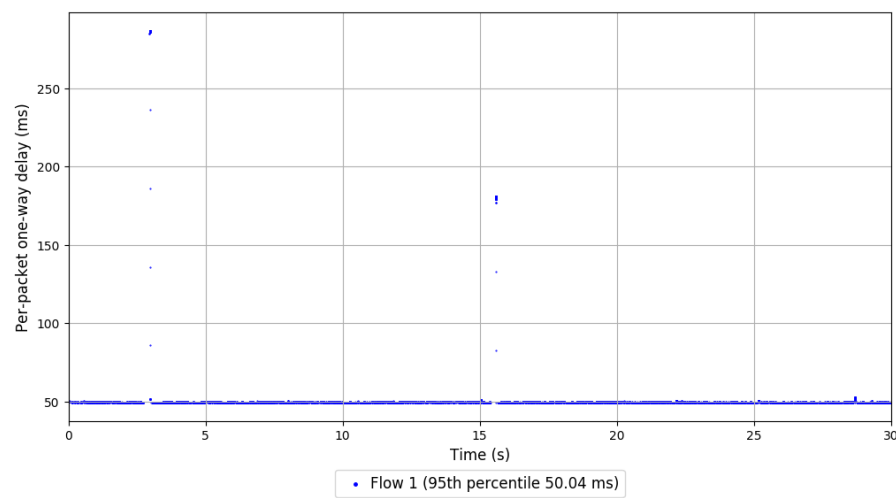
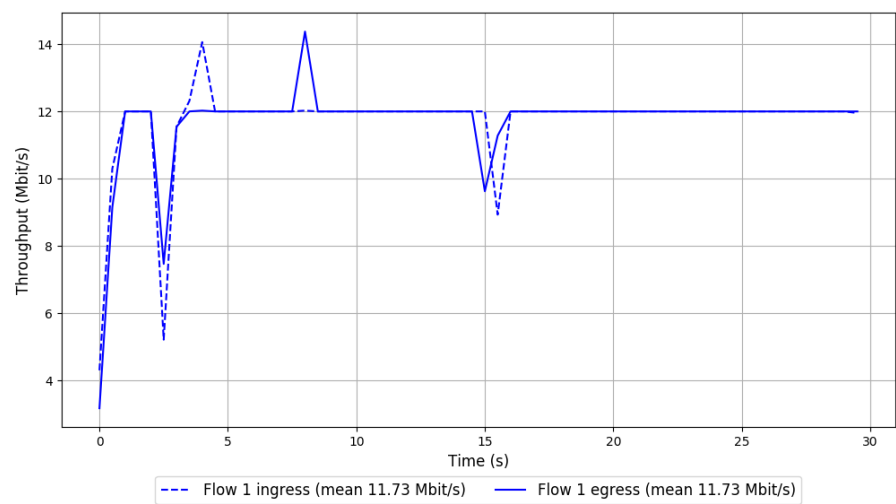
-- Flow 1:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 50.041 ms

Loss rate: 0.00%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-09-18 04:49:02

End at: 2017-09-18 04:49:32

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 51.462 ms

Loss rate: 0.00%

-- Flow 1:

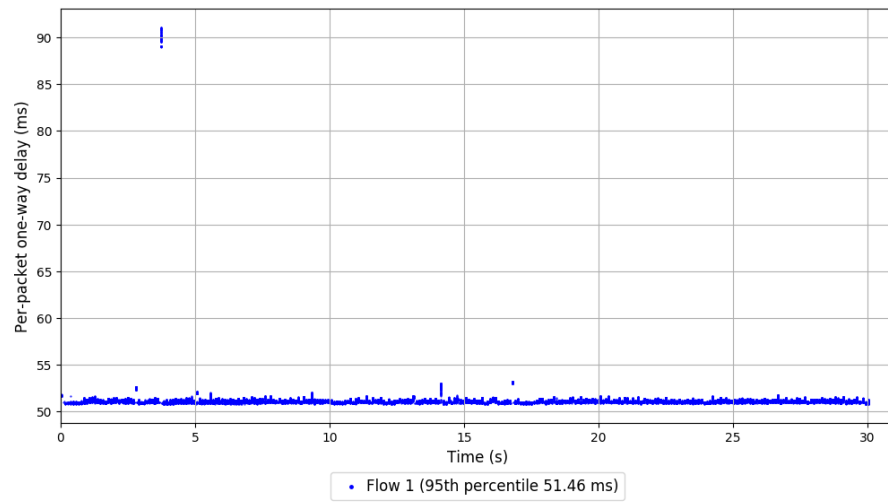
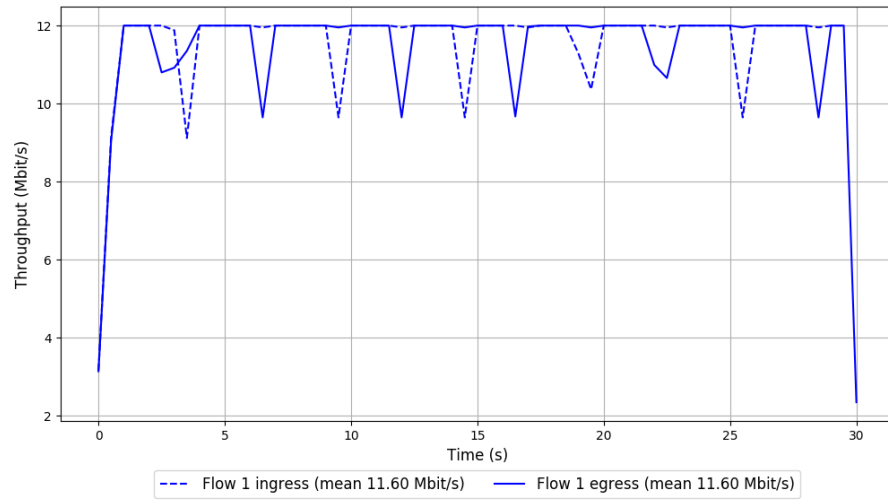
Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 51.462 ms

Loss rate: 0.00%



### Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-09-18 05:00:03

End at: 2017-09-18 05:00:33

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 51.432 ms

Loss rate: 0.00%

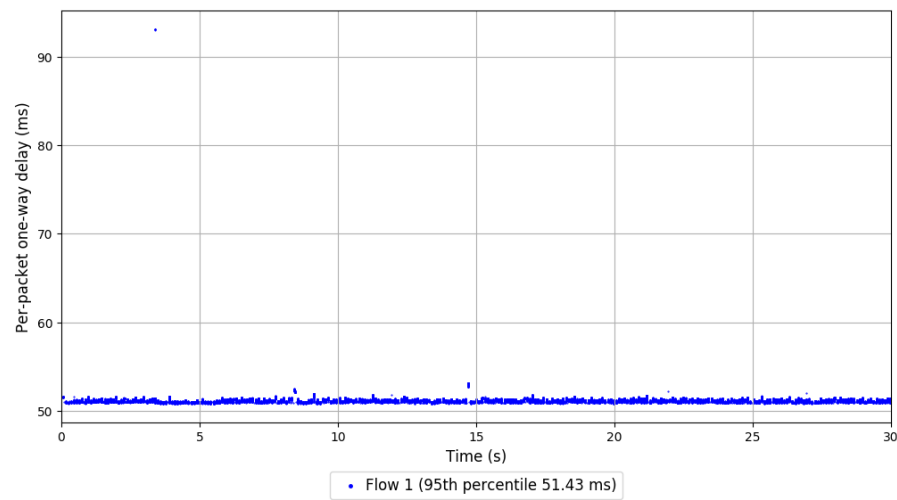
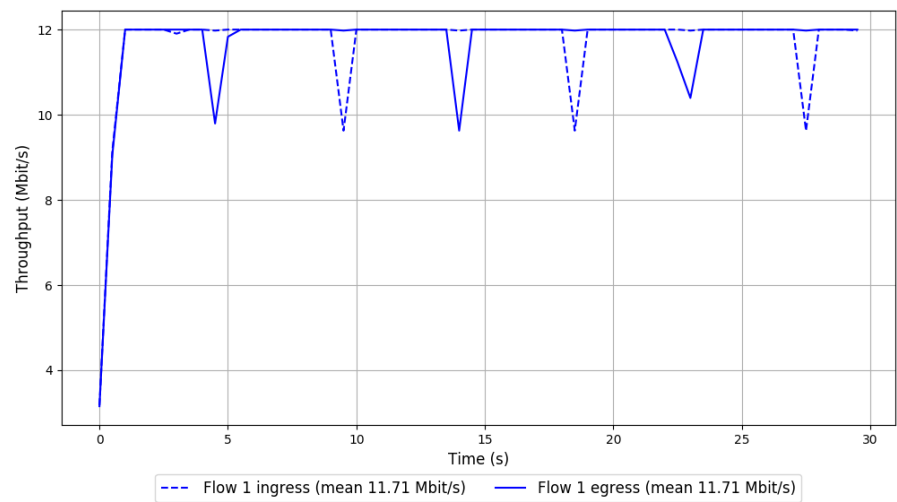
-- Flow 1:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 51.432 ms

Loss rate: 0.00%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-09-18 05:11:21

End at: 2017-09-18 05:11:51

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 51.530 ms

Loss rate: 0.01%

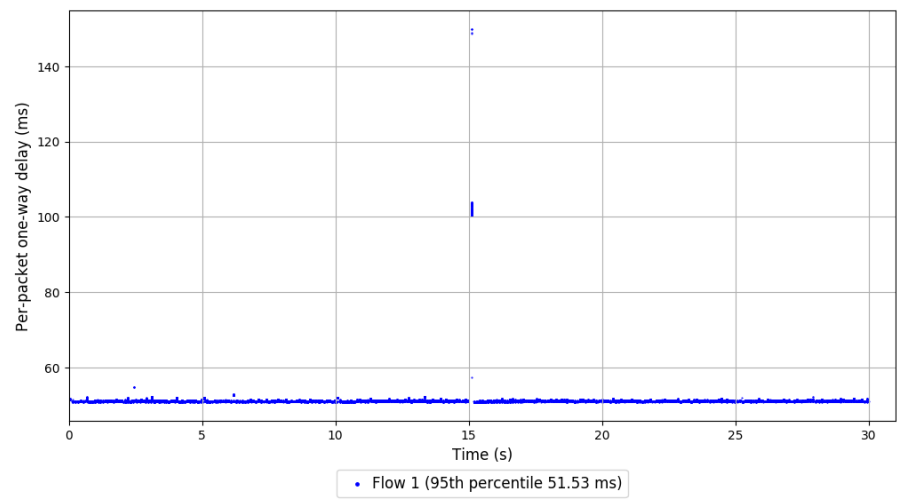
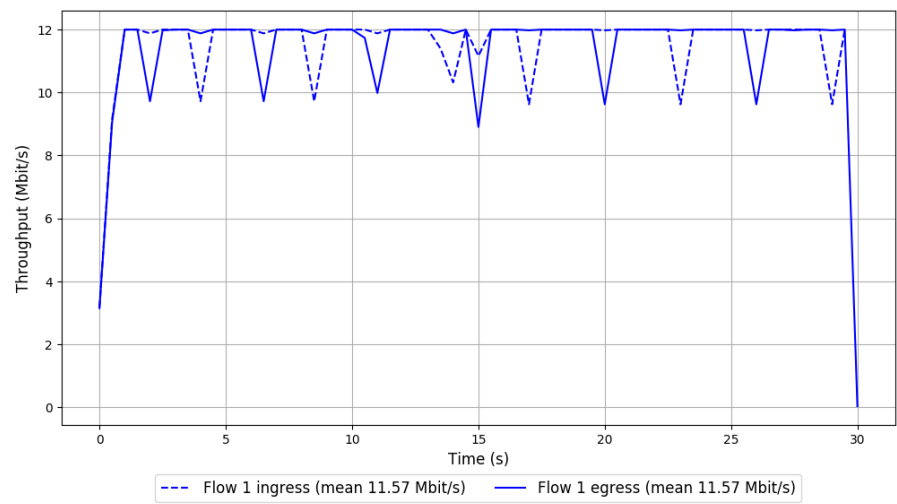
-- Flow 1:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 51.530 ms

Loss rate: 0.01%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-09-18 05:22:23

End at: 2017-09-18 05:22:53

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 0.01%

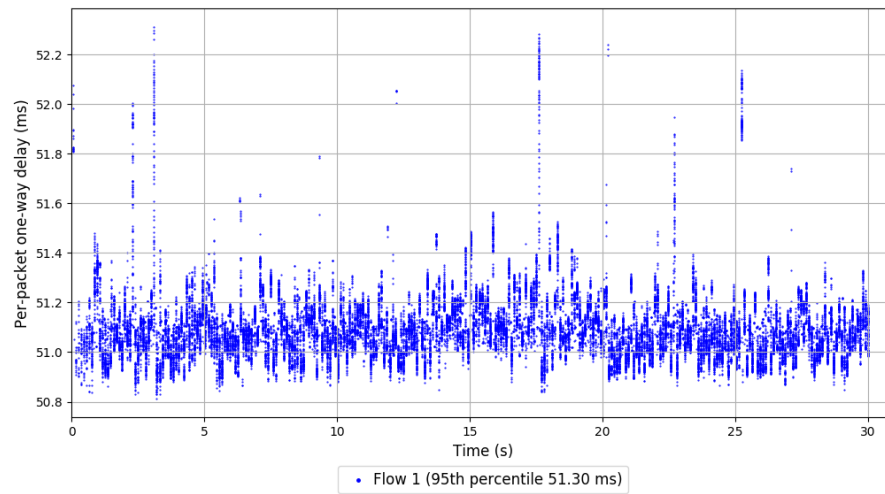
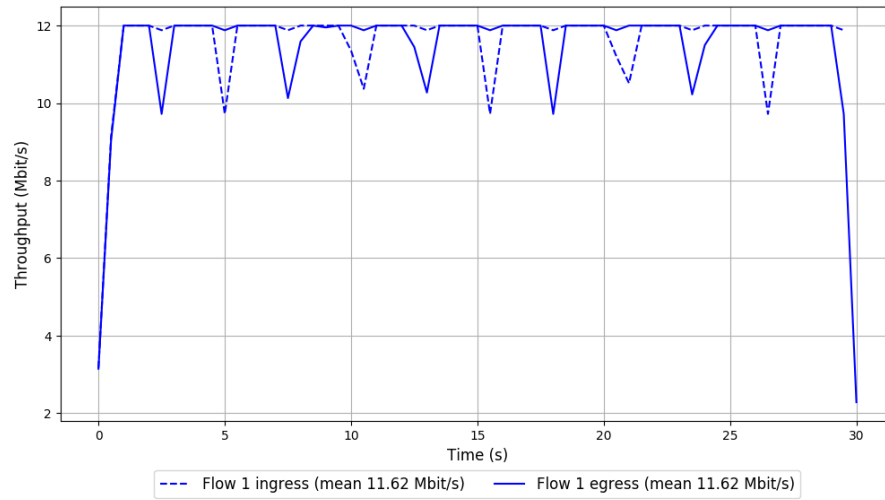
-- Flow 1:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 0.01%

# Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-09-18 05:33:40

End at: 2017-09-18 05:34:11

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 51.521 ms

Loss rate: 0.03%

-- Flow 1:

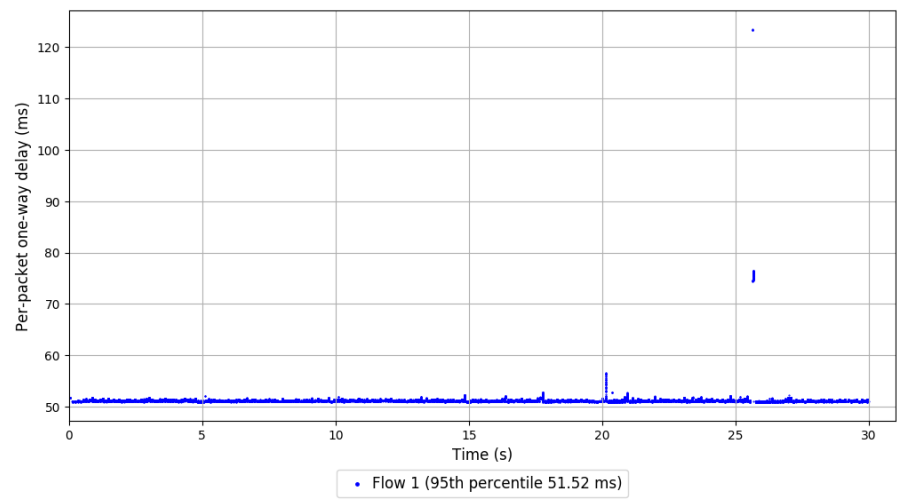
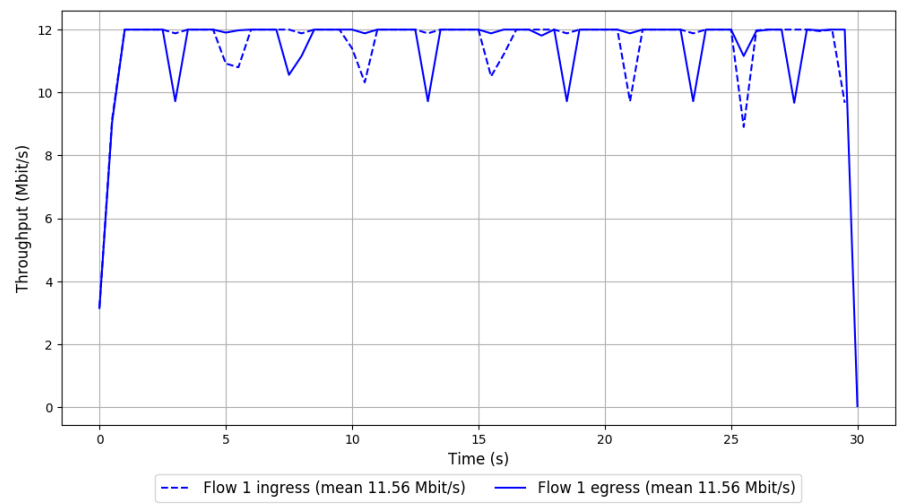
Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 51.521 ms

Loss rate: 0.03%



Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-09-18 05:44:52

End at: 2017-09-18 05:45:22

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 51.142 ms

Loss rate: 0.00%

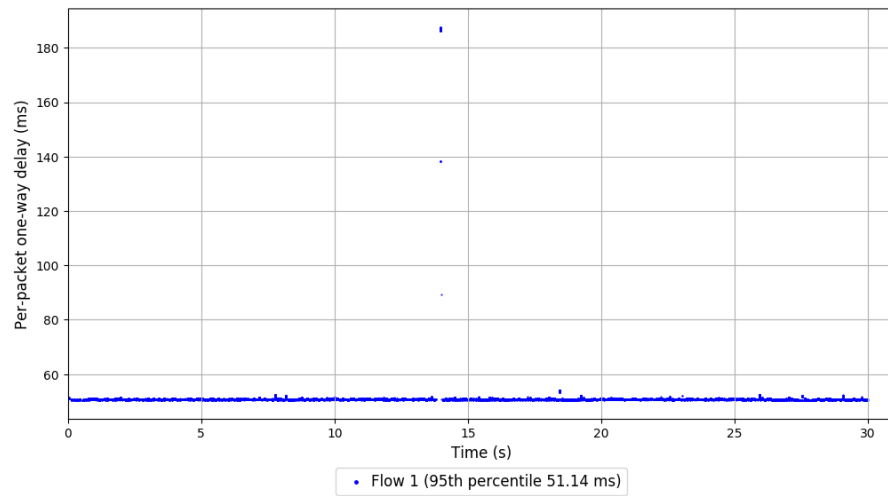
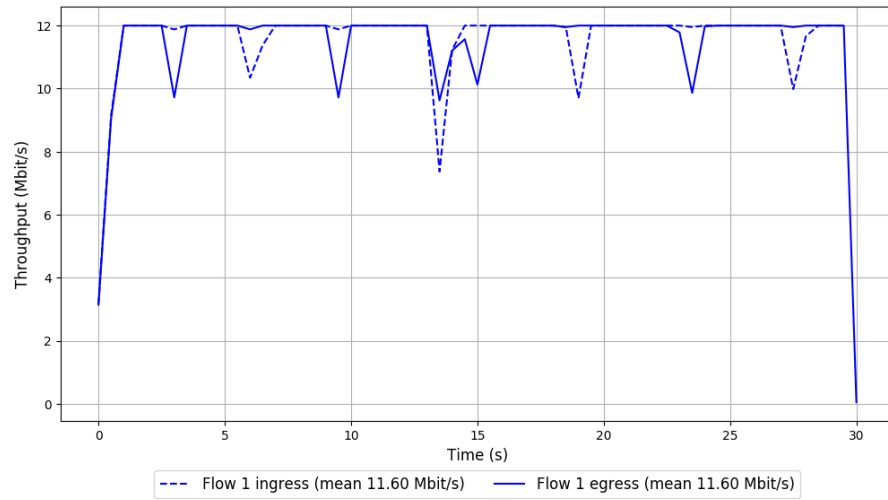
-- Flow 1:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 51.142 ms

Loss rate: 0.00%

### Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-09-18 05:56:11

End at: 2017-09-18 05:56:41

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.00%

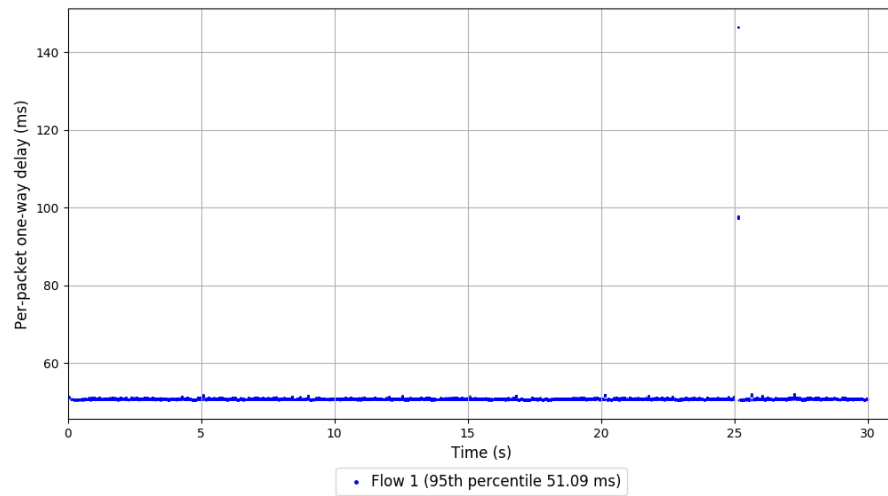
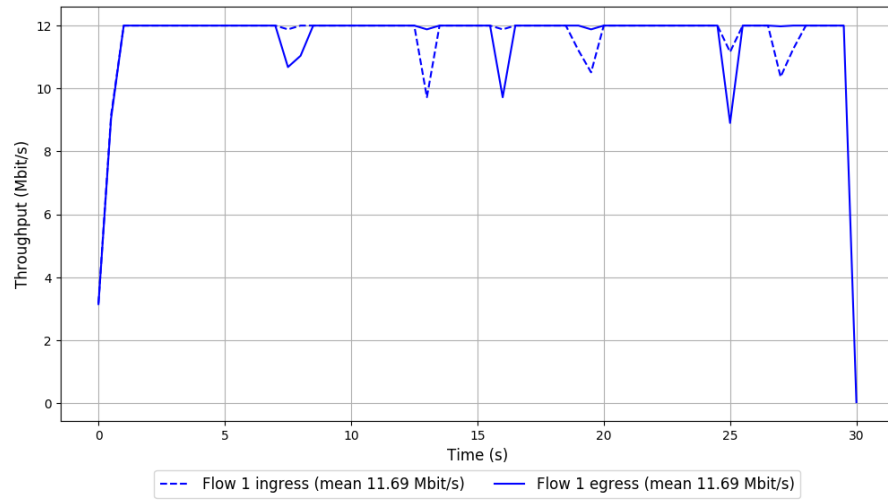
-- Flow 1:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.00%

### Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: 2017-09-18 06:07:28

End at: 2017-09-18 06:07:58

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 51.060 ms

Loss rate: 0.00%

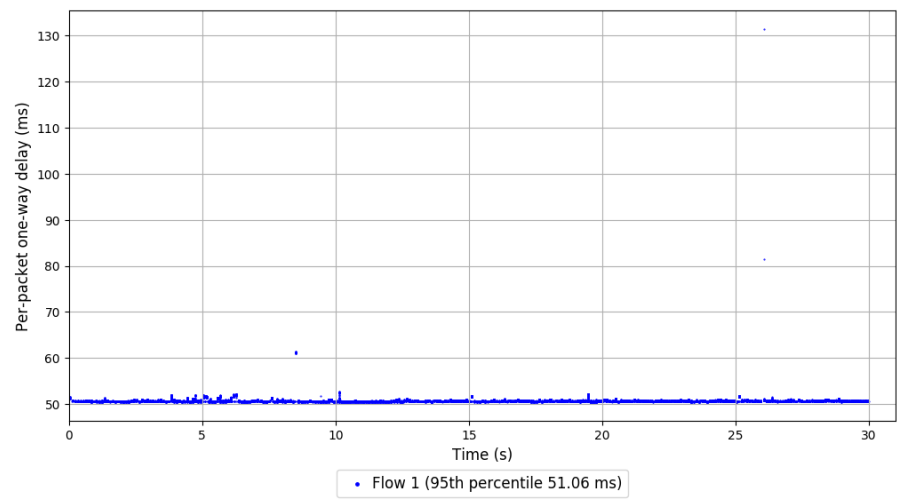
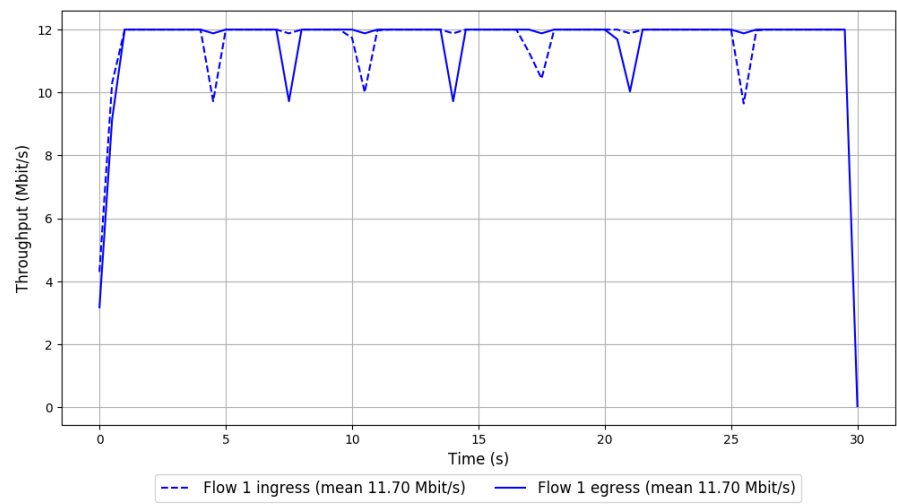
-- Flow 1:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 51.060 ms

Loss rate: 0.00%

Run 10: Report of KohoCC — Data Link



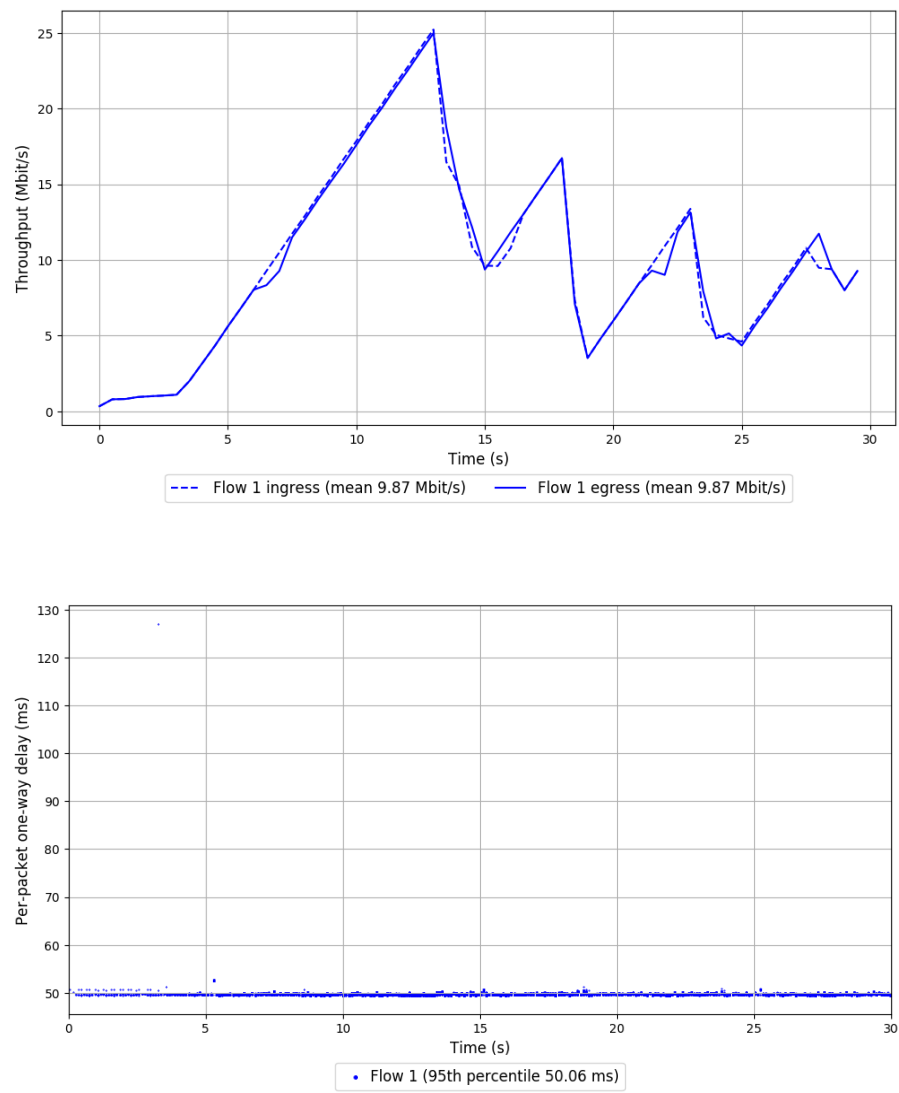
```
Run 1: Statistics of LEDBAT

Start at: 2017-09-18 04:30:07
End at: 2017-09-18 04:30:37

# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 50.062 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 50.062 ms
Loss rate: 0.08%
```



Run 1: Report of LEDBAT — Data Link

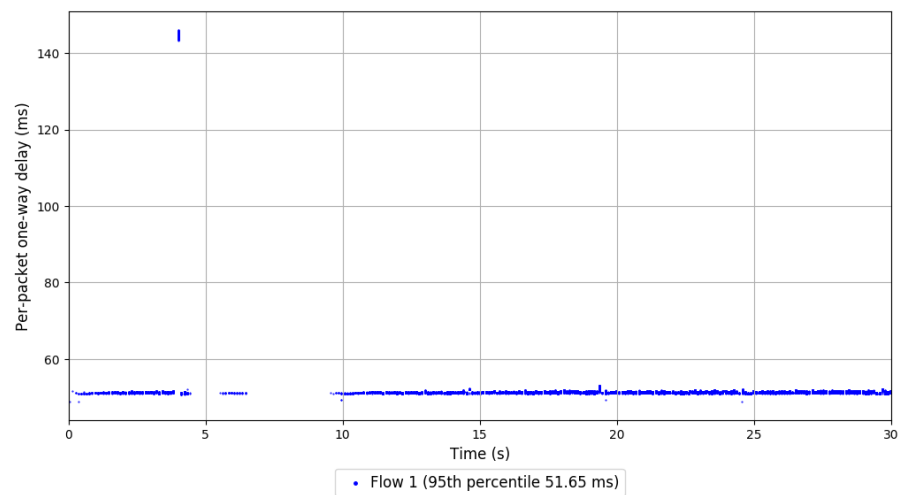
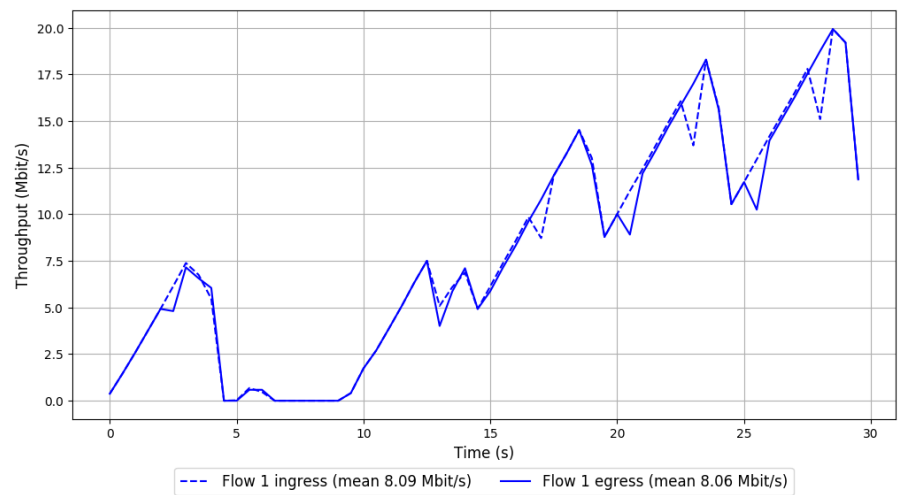


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-18 04:41:02
End at: 2017-09-18 04:41:32

# Below is generated by plot.py at 2017-09-18 07:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 51.651 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 51.651 ms
Loss rate: 0.34%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-18 04:52:22

End at: 2017-09-18 04:52:52

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 51.715 ms

Loss rate: 0.00%

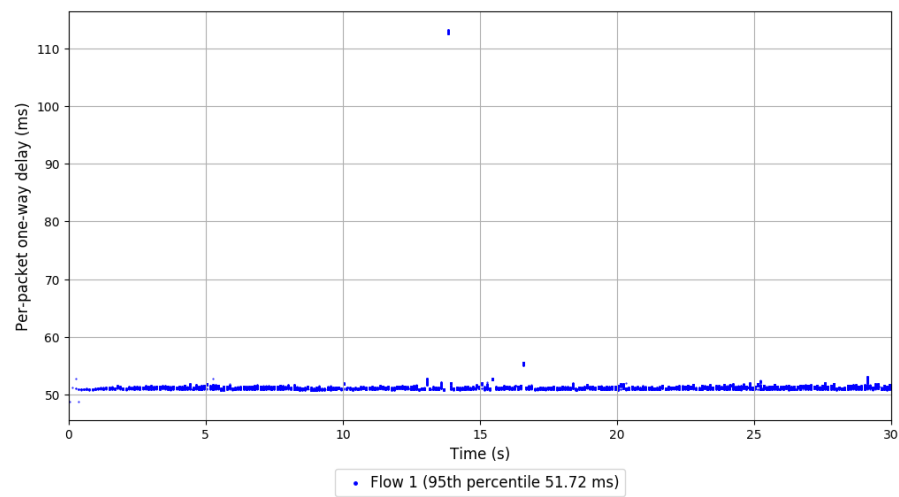
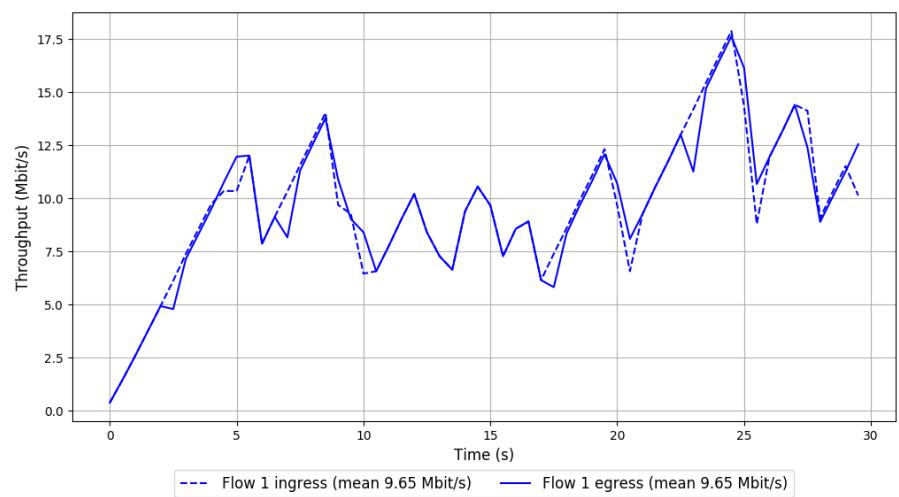
-- Flow 1:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 51.715 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-18 05:03:21

End at: 2017-09-18 05:03:51

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 51.835 ms

Loss rate: 0.00%

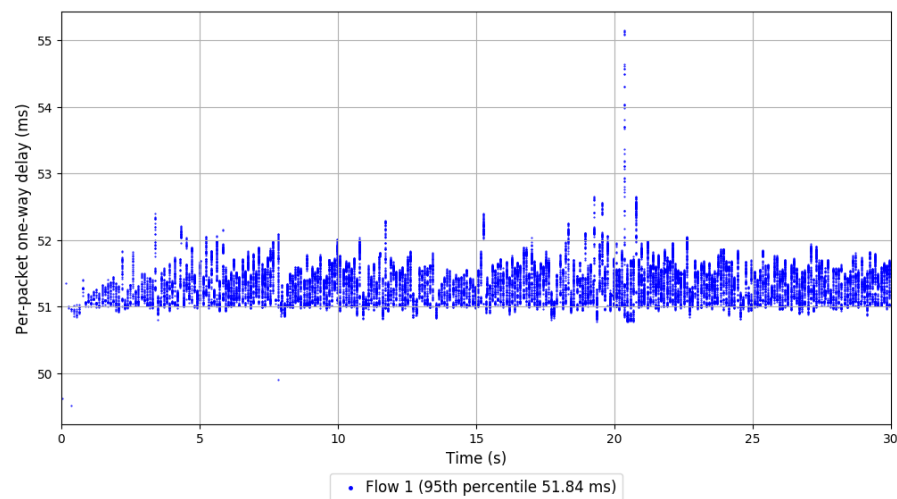
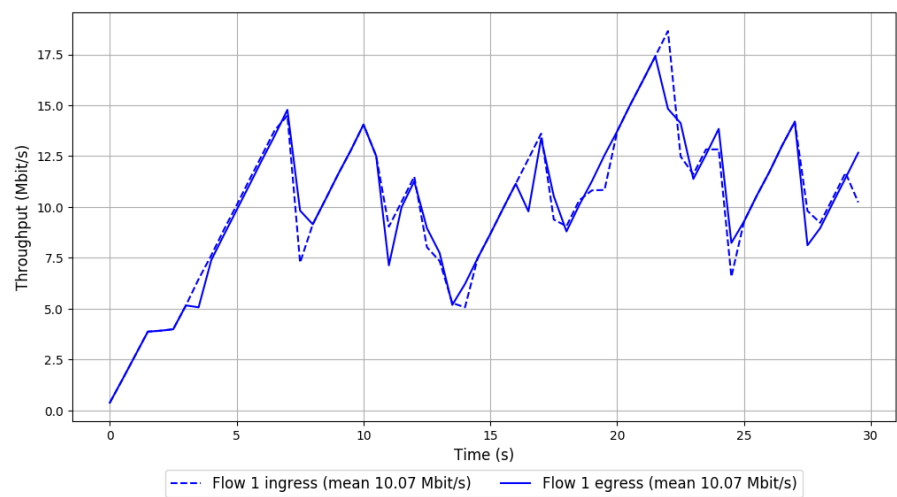
-- Flow 1:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 51.835 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-18 05:14:39

End at: 2017-09-18 05:15:09

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 51.899 ms

Loss rate: 0.03%

-- Flow 1:

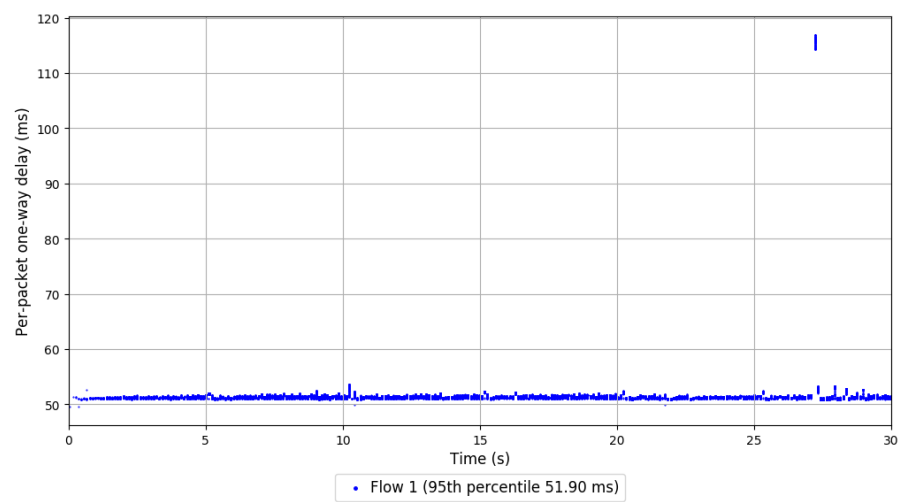
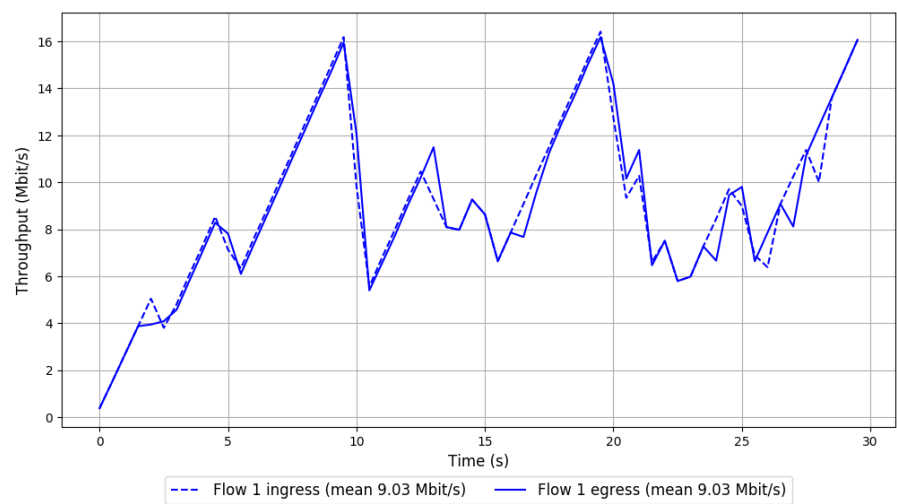
Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 51.899 ms

Loss rate: 0.03%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-18 05:25:34

End at: 2017-09-18 05:26:04

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 51.676 ms

Loss rate: 0.04%

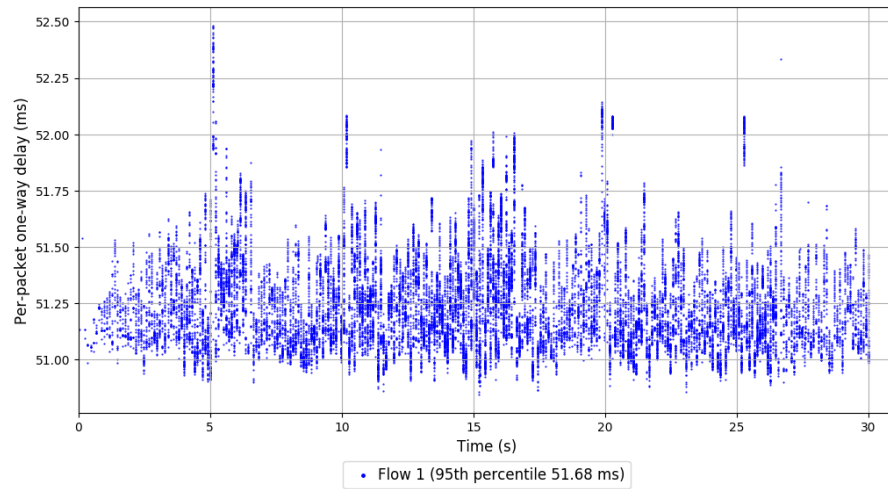
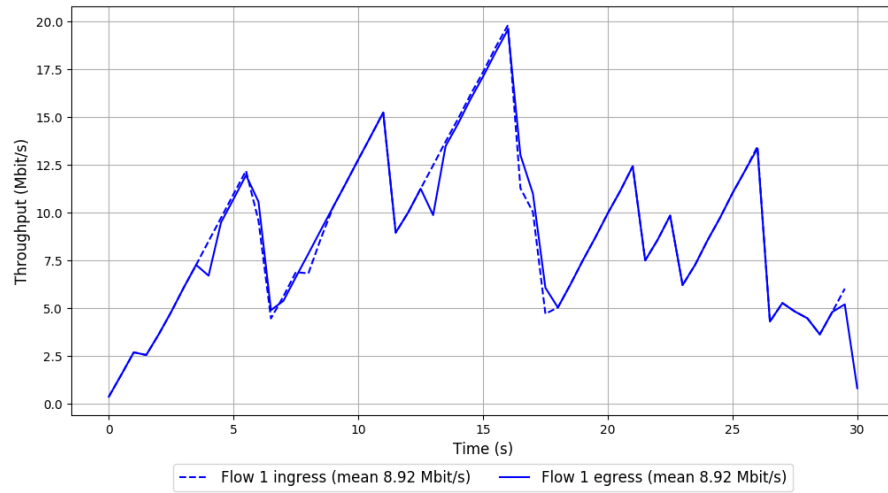
-- Flow 1:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 51.676 ms

Loss rate: 0.04%

## Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-18 05:37:01

End at: 2017-09-18 05:37:31

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 51.658 ms

Loss rate: 0.03%

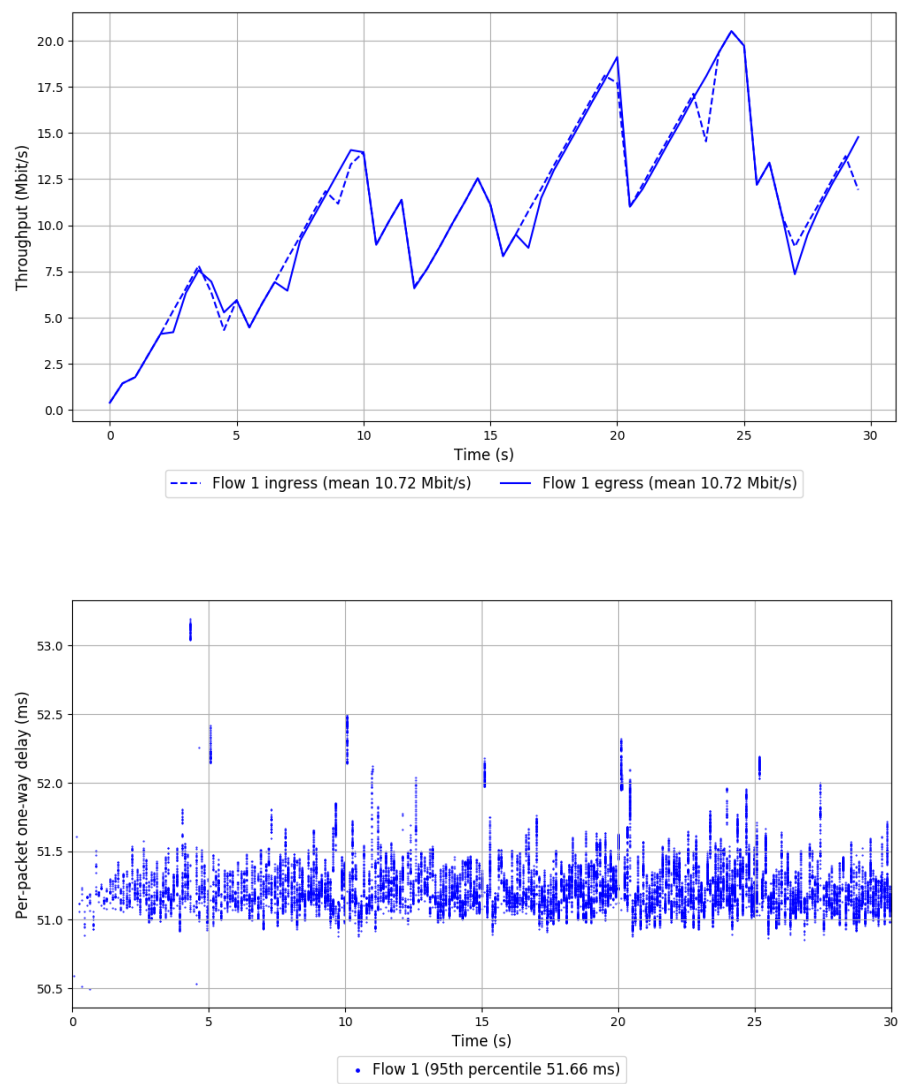
-- Flow 1:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 51.658 ms

Loss rate: 0.03%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-18 05:48:10

End at: 2017-09-18 05:48:40

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 51.205 ms

Loss rate: 0.01%

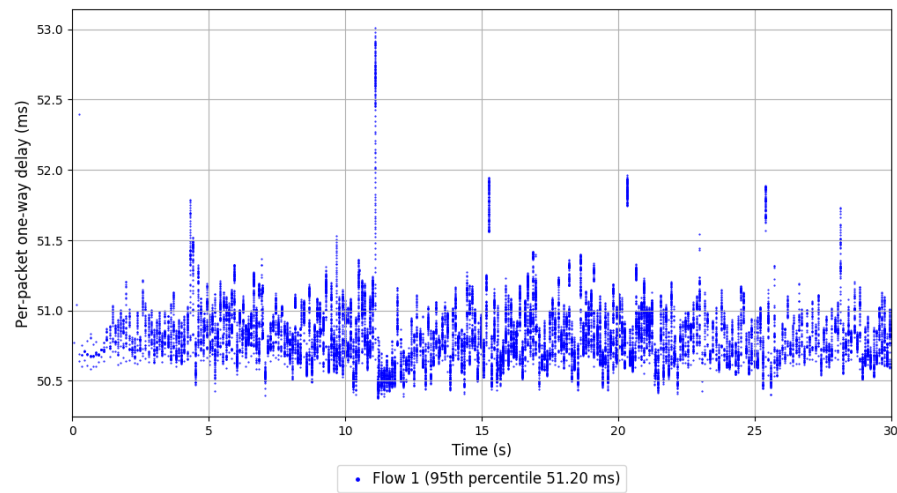
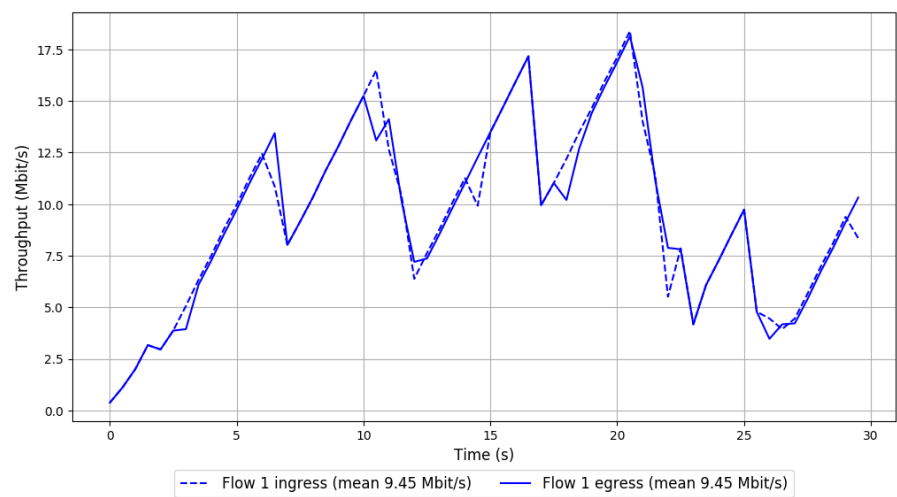
-- Flow 1:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 51.205 ms

Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-18 05:59:30

End at: 2017-09-18 06:00:00

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 51.292 ms

Loss rate: 0.04%

-- Flow 1:

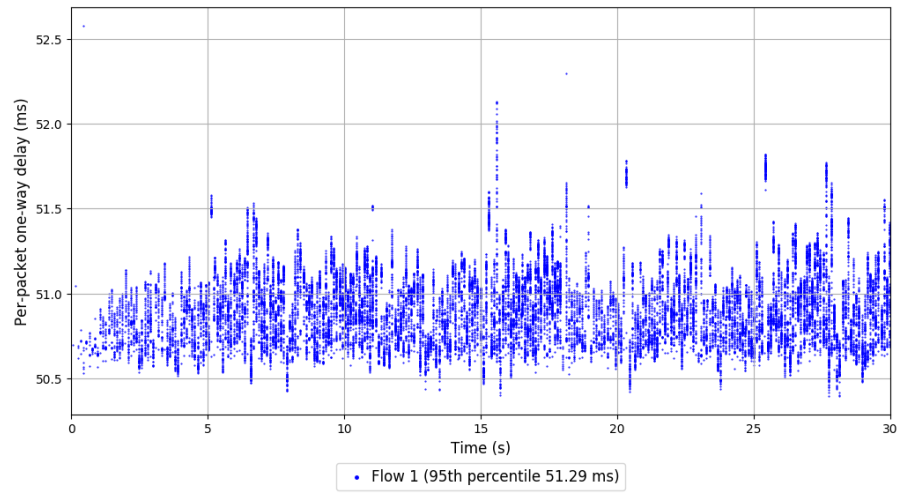
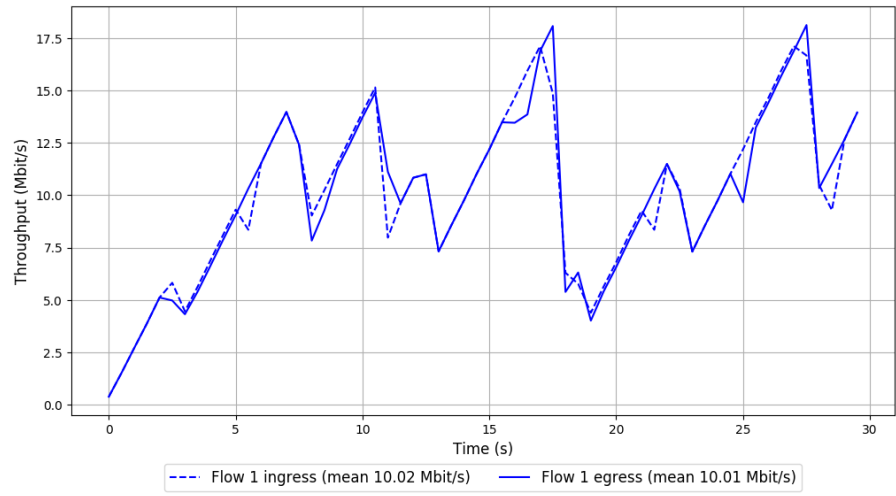
Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 51.292 ms

Loss rate: 0.04%



### Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-18 06:10:50

End at: 2017-09-18 06:11:20

# Below is generated by plot.py at 2017-09-18 07:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 51.970 ms

Loss rate: 0.00%

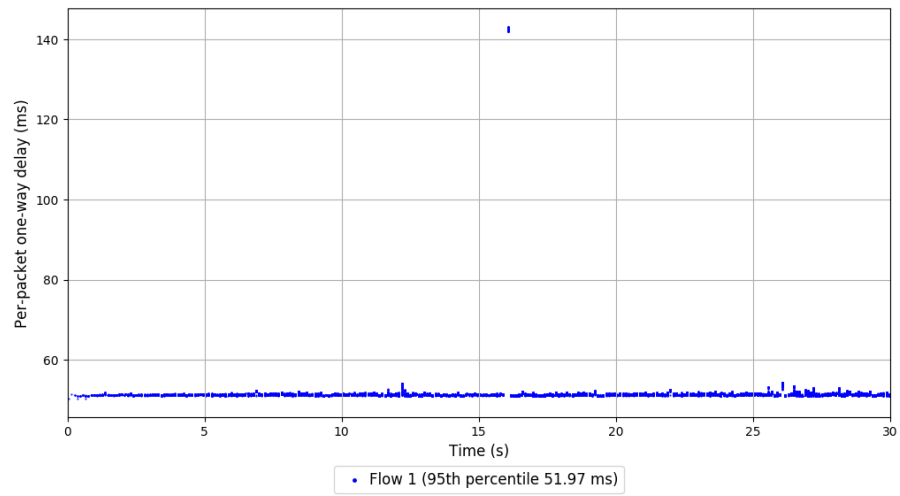
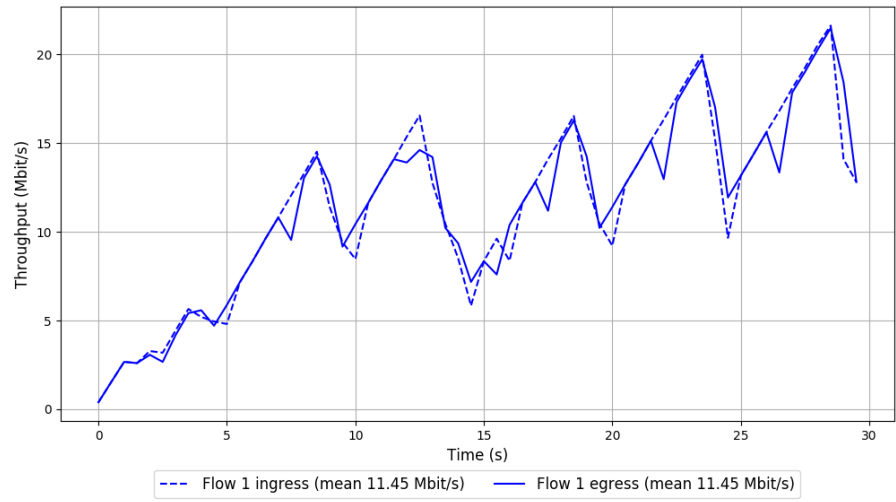
-- Flow 1:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 51.970 ms

Loss rate: 0.00%

### Run 10: Report of LEDBAT — Data Link

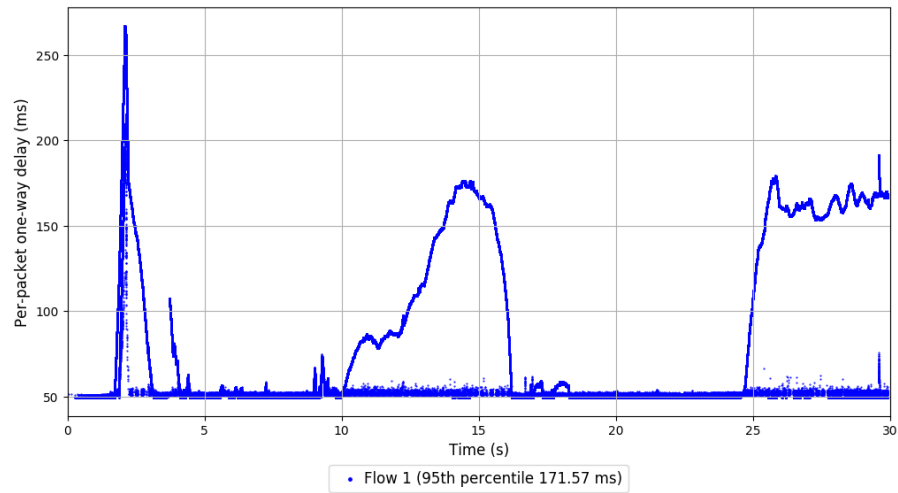
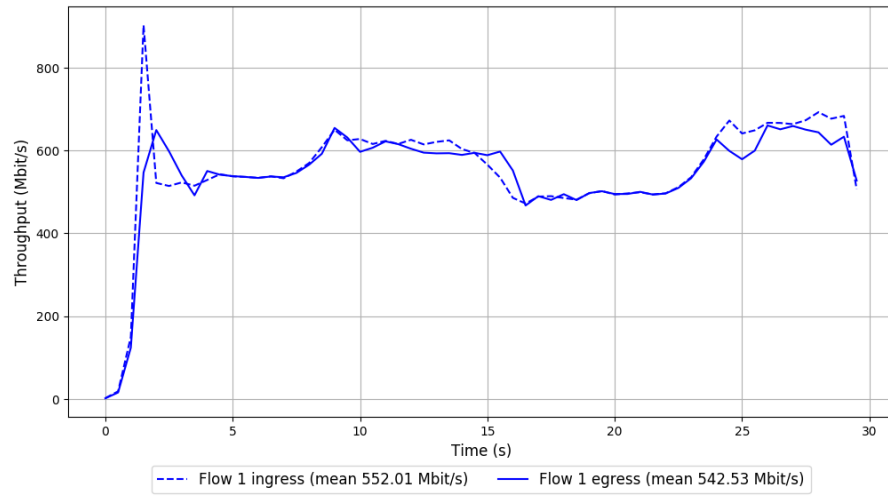


```
Run 1: Statistics of PCC

Start at: 2017-09-18 04:23:02
End at: 2017-09-18 04:23:32

# Below is generated by plot.py at 2017-09-18 08:02:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.53 Mbit/s
95th percentile per-packet one-way delay: 171.566 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 542.53 Mbit/s
95th percentile per-packet one-way delay: 171.566 ms
Loss rate: 1.73%
```

## Run 1: Report of PCC — Data Link

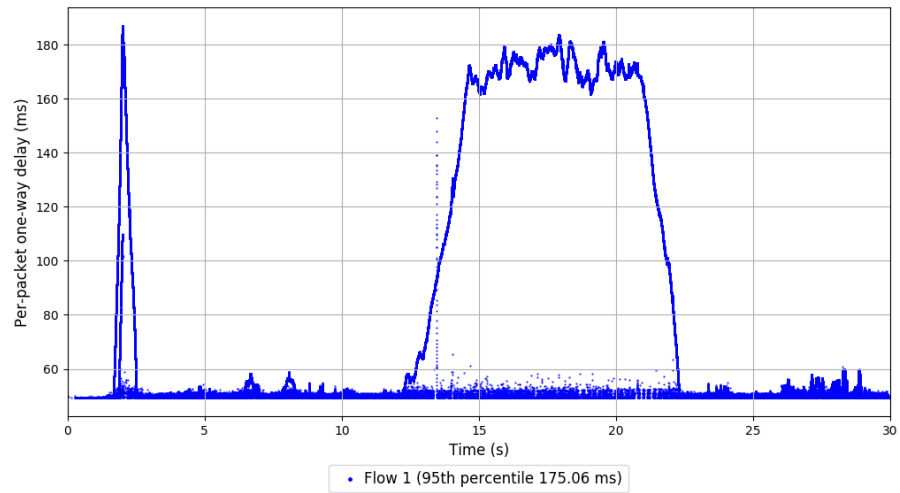
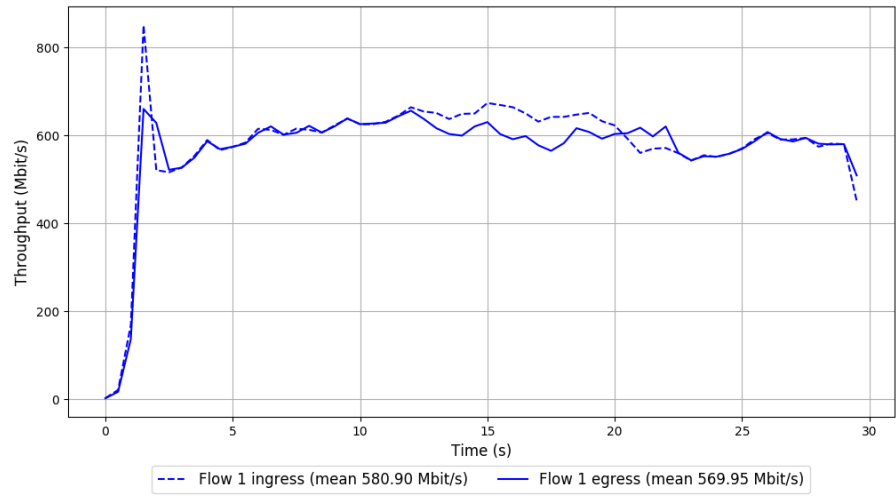


```
Run 2: Statistics of PCC

Start at: 2017-09-18 04:34:03
End at: 2017-09-18 04:34:33

# Below is generated by plot.py at 2017-09-18 08:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 569.95 Mbit/s
95th percentile per-packet one-way delay: 175.065 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 569.95 Mbit/s
95th percentile per-packet one-way delay: 175.065 ms
Loss rate: 1.89%
```

## Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-18 04:45:20

End at: 2017-09-18 04:45:50

# Below is generated by plot.py at 2017-09-18 08:02:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 520.10 Mbit/s

95th percentile per-packet one-way delay: 188.715 ms

Loss rate: 0.95%

-- Flow 1:

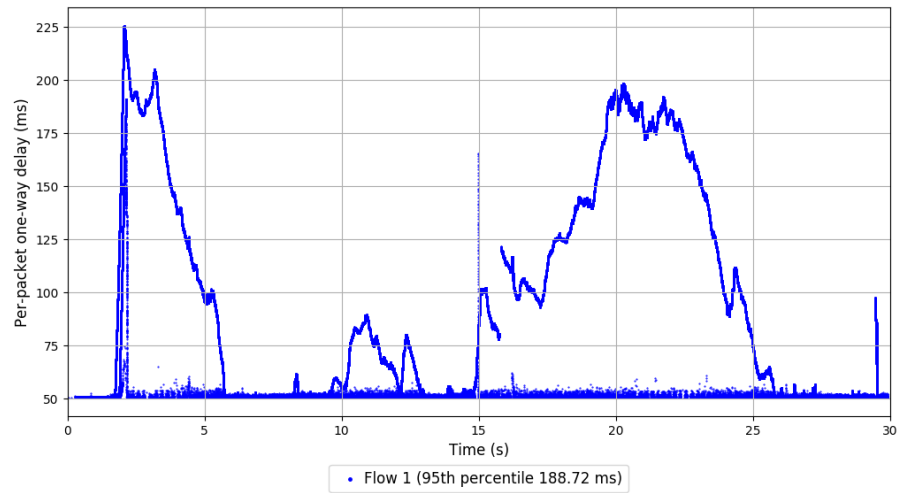
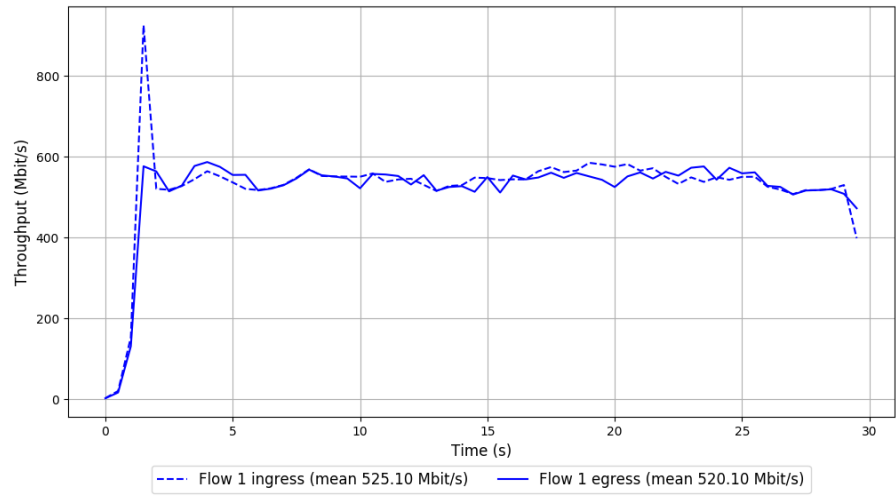
Average throughput: 520.10 Mbit/s

95th percentile per-packet one-way delay: 188.715 ms

Loss rate: 0.95%



### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-18 04:56:17

End at: 2017-09-18 04:56:47

# Below is generated by plot.py at 2017-09-18 08:02:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 562.41 Mbit/s

95th percentile per-packet one-way delay: 176.593 ms

Loss rate: 1.20%

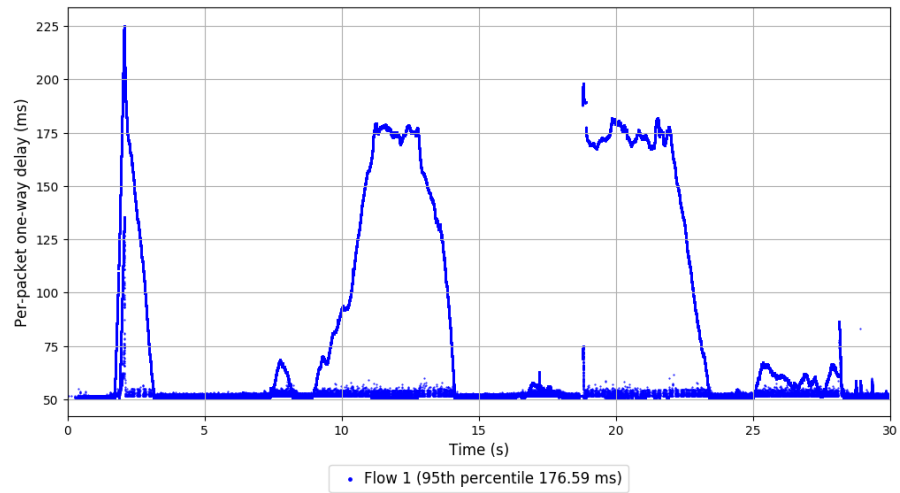
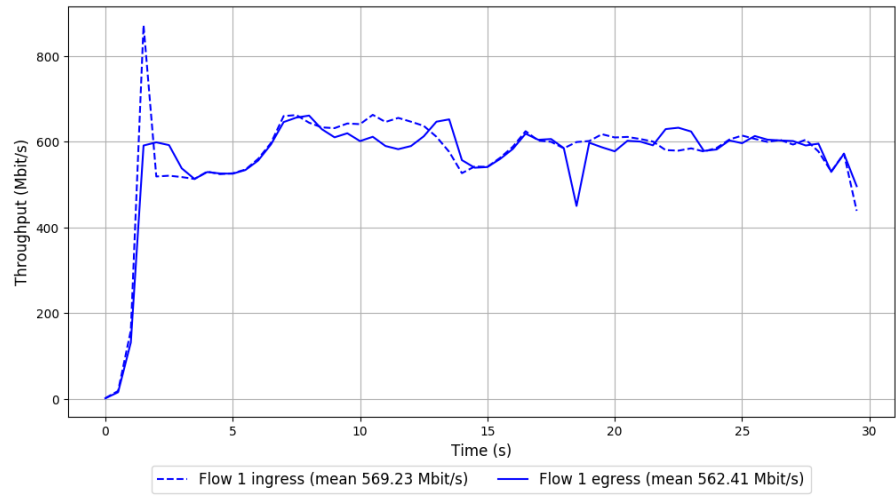
-- Flow 1:

Average throughput: 562.41 Mbit/s

95th percentile per-packet one-way delay: 176.593 ms

Loss rate: 1.20%

#### Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-18 05:07:36

End at: 2017-09-18 05:08:06

# Below is generated by plot.py at 2017-09-18 08:02:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 533.61 Mbit/s

95th percentile per-packet one-way delay: 182.689 ms

Loss rate: 0.60%

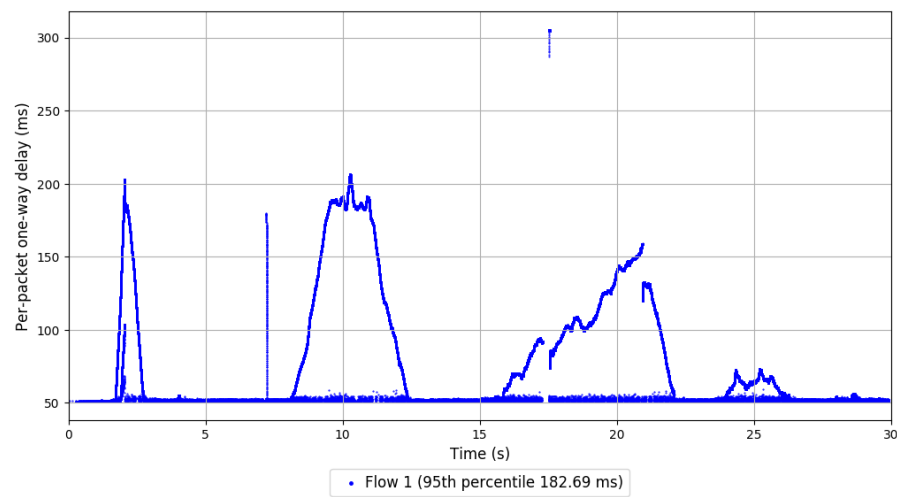
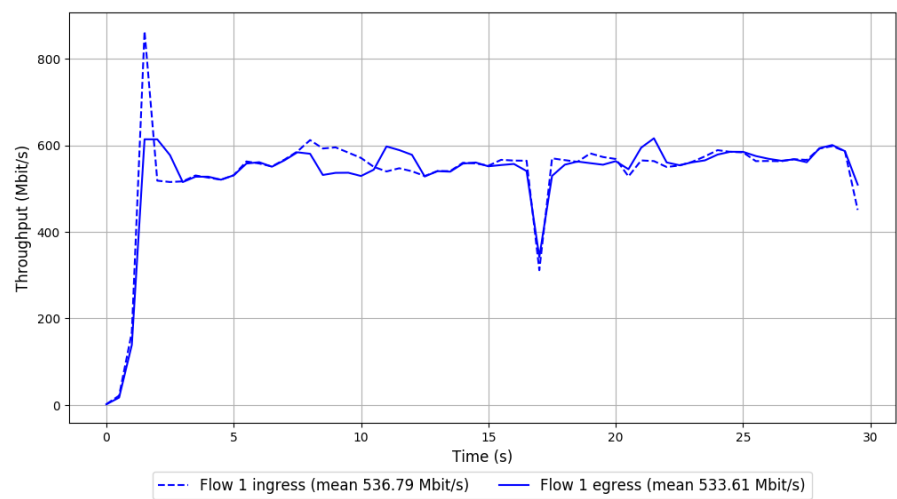
-- Flow 1:

Average throughput: 533.61 Mbit/s

95th percentile per-packet one-way delay: 182.689 ms

Loss rate: 0.60%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-18 05:18:40

End at: 2017-09-18 05:19:10

# Below is generated by plot.py at 2017-09-18 08:03:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 556.53 Mbit/s

95th percentile per-packet one-way delay: 159.789 ms

Loss rate: 0.48%

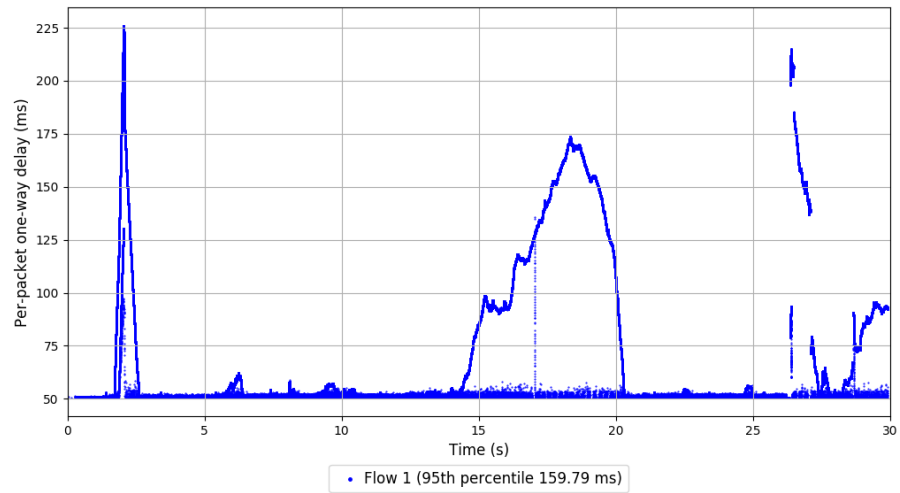
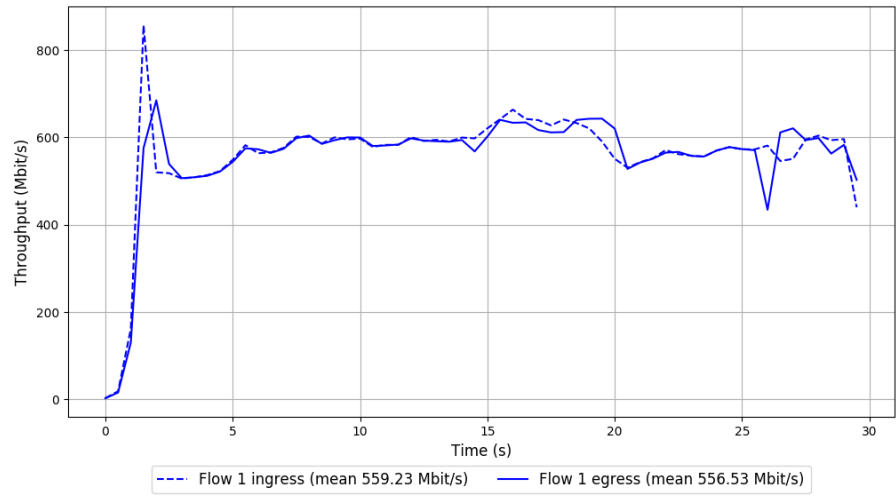
-- Flow 1:

Average throughput: 556.53 Mbit/s

95th percentile per-packet one-way delay: 159.789 ms

Loss rate: 0.48%

## Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-18 05:29:53

End at: 2017-09-18 05:30:24

# Below is generated by plot.py at 2017-09-18 08:04:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 554.79 Mbit/s

95th percentile per-packet one-way delay: 104.140 ms

Loss rate: 0.33%

-- Flow 1:

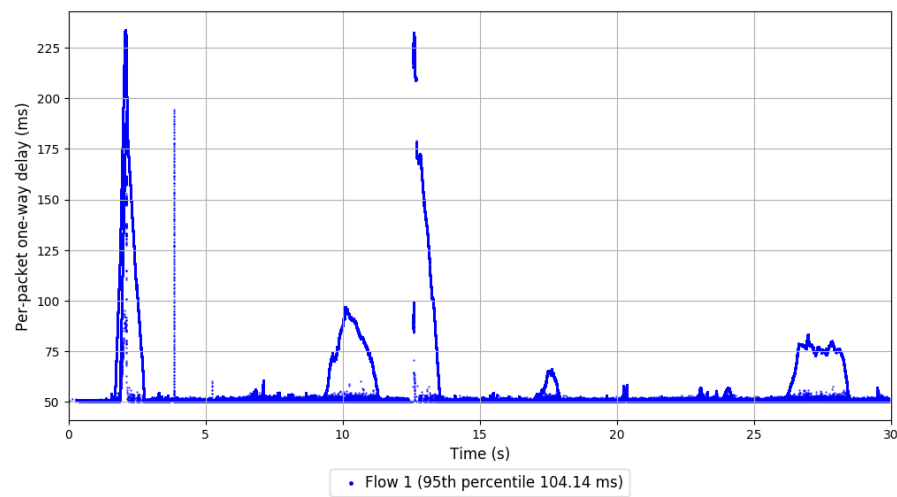
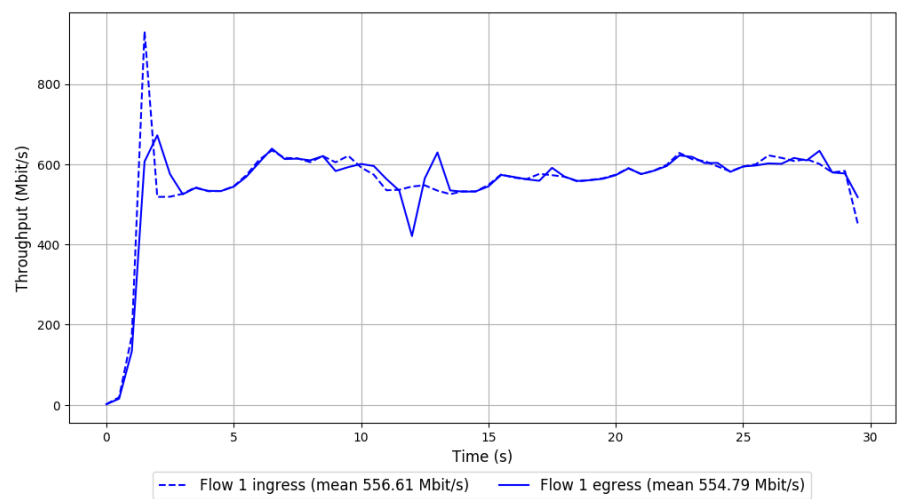
Average throughput: 554.79 Mbit/s

95th percentile per-packet one-way delay: 104.140 ms

Loss rate: 0.33%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-18 05:41:09

End at: 2017-09-18 05:41:39

# Below is generated by plot.py at 2017-09-18 08:04:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 553.76 Mbit/s

95th percentile per-packet one-way delay: 166.446 ms

Loss rate: 0.48%

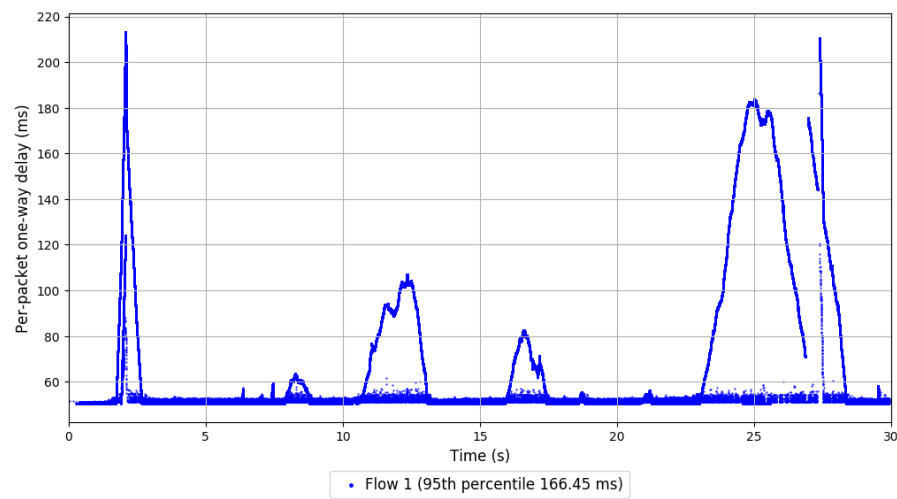
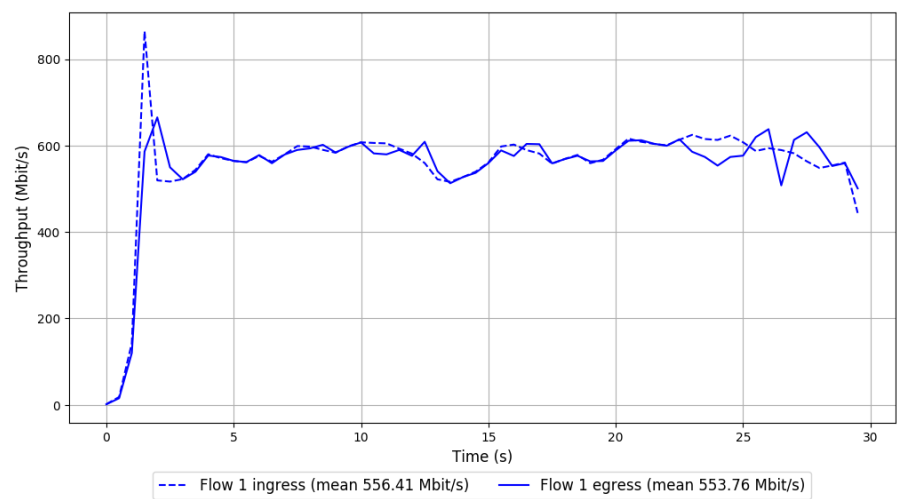
-- Flow 1:

Average throughput: 553.76 Mbit/s

95th percentile per-packet one-way delay: 166.446 ms

Loss rate: 0.48%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-18 05:52:26

End at: 2017-09-18 05:52:56

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 581.75 Mbit/s

95th percentile per-packet one-way delay: 163.298 ms

Loss rate: 1.24%

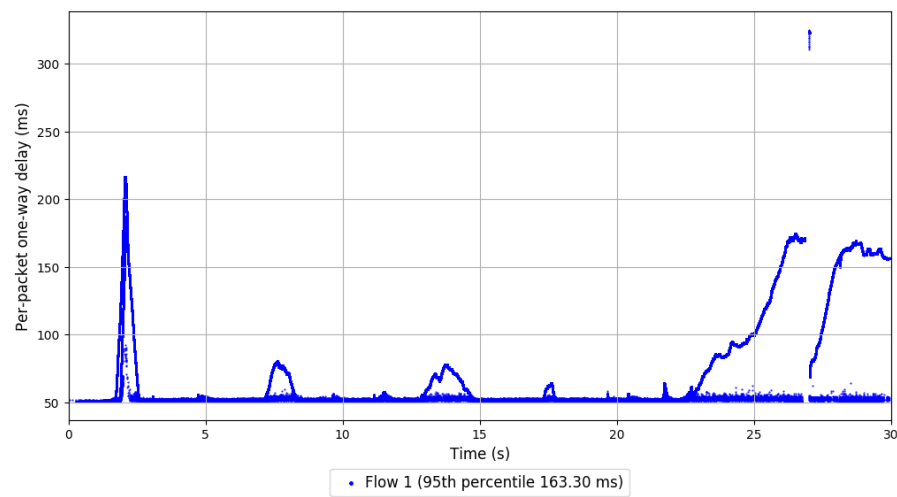
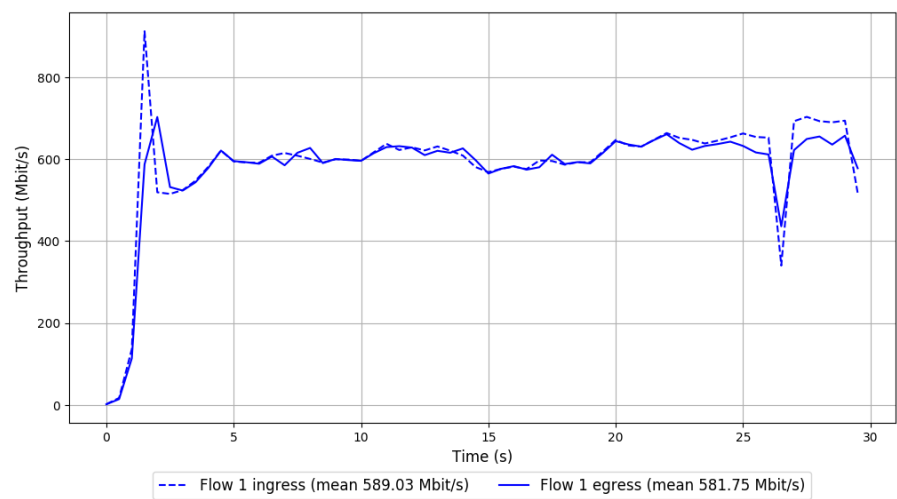
-- Flow 1:

Average throughput: 581.75 Mbit/s

95th percentile per-packet one-way delay: 163.298 ms

Loss rate: 1.24%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-18 06:03:44

End at: 2017-09-18 06:04:14

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 548.83 Mbit/s

95th percentile per-packet one-way delay: 181.166 ms

Loss rate: 1.61%

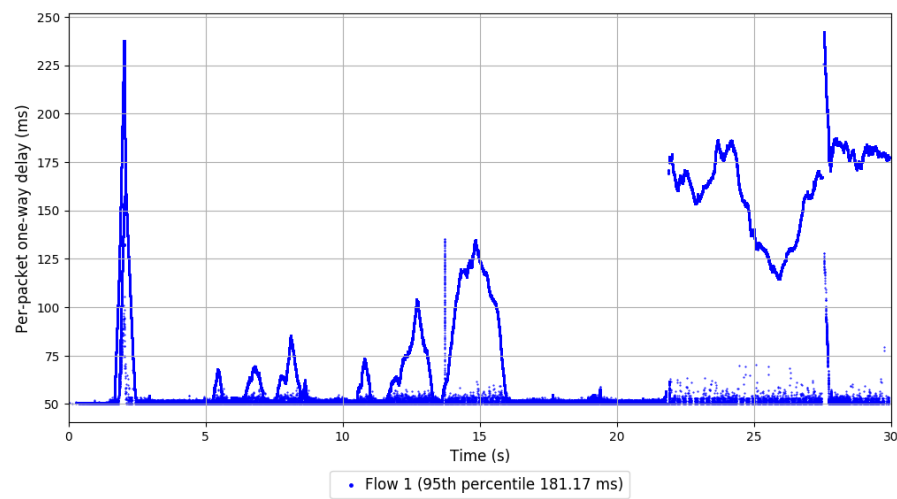
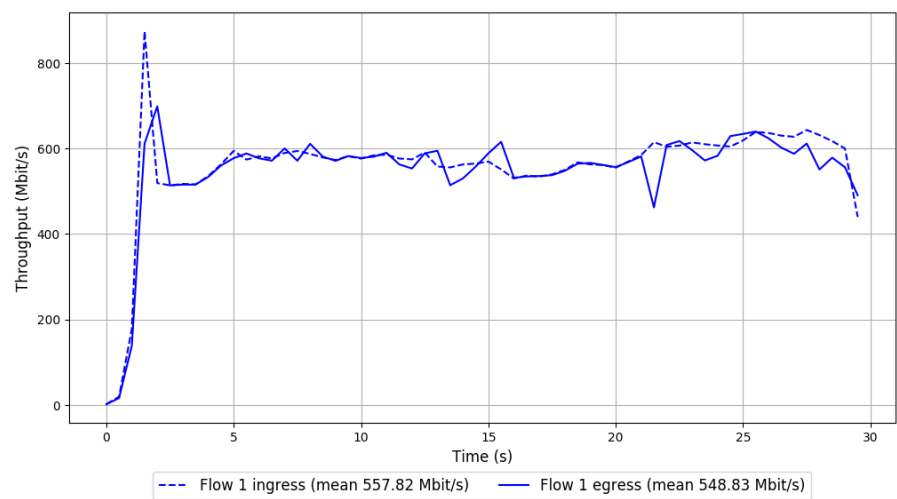
-- Flow 1:

Average throughput: 548.83 Mbit/s

95th percentile per-packet one-way delay: 181.166 ms

Loss rate: 1.61%

Run 10: Report of PCC — Data Link



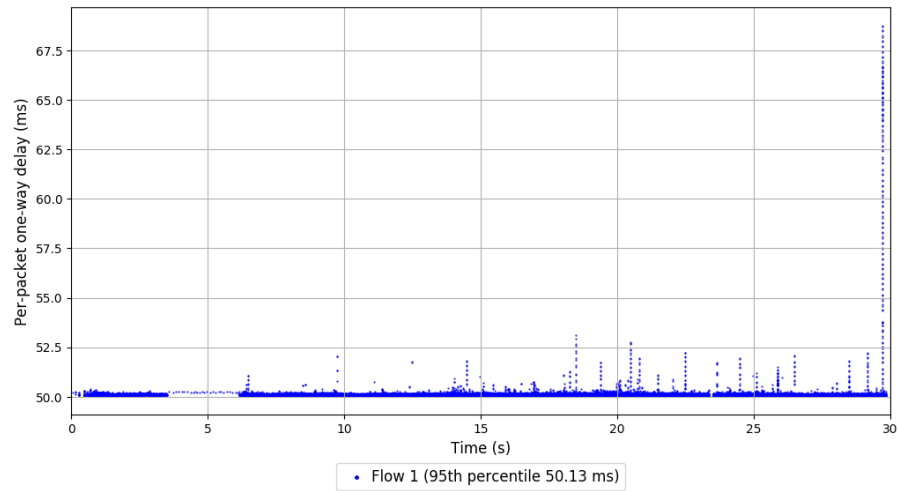
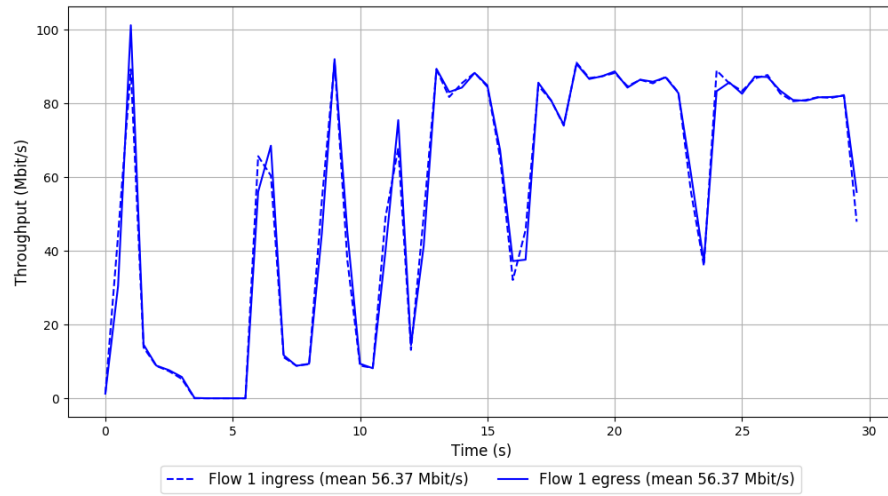
```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 04:23:59
End at: 2017-09-18 04:24:29

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 50.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 50.132 ms
Loss rate: 0.00%
```



## Run 1: Report of QUIC Cubic — Data Link

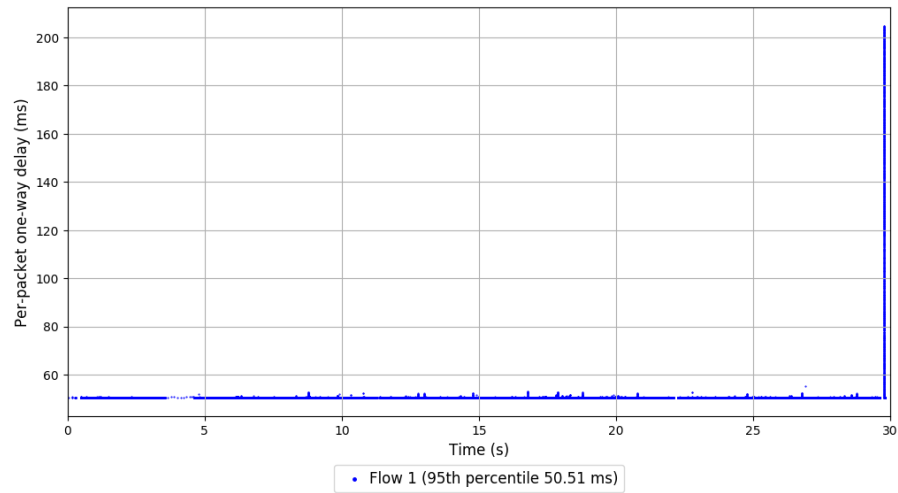
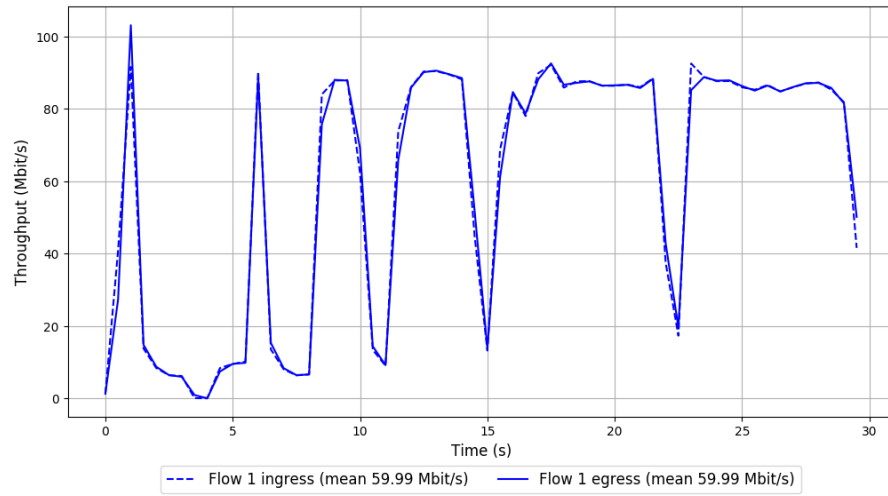


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 04:35:00
End at: 2017-09-18 04:35:30

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.99 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.99 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.00%
```

## Run 2: Report of QUIC Cubic — Data Link

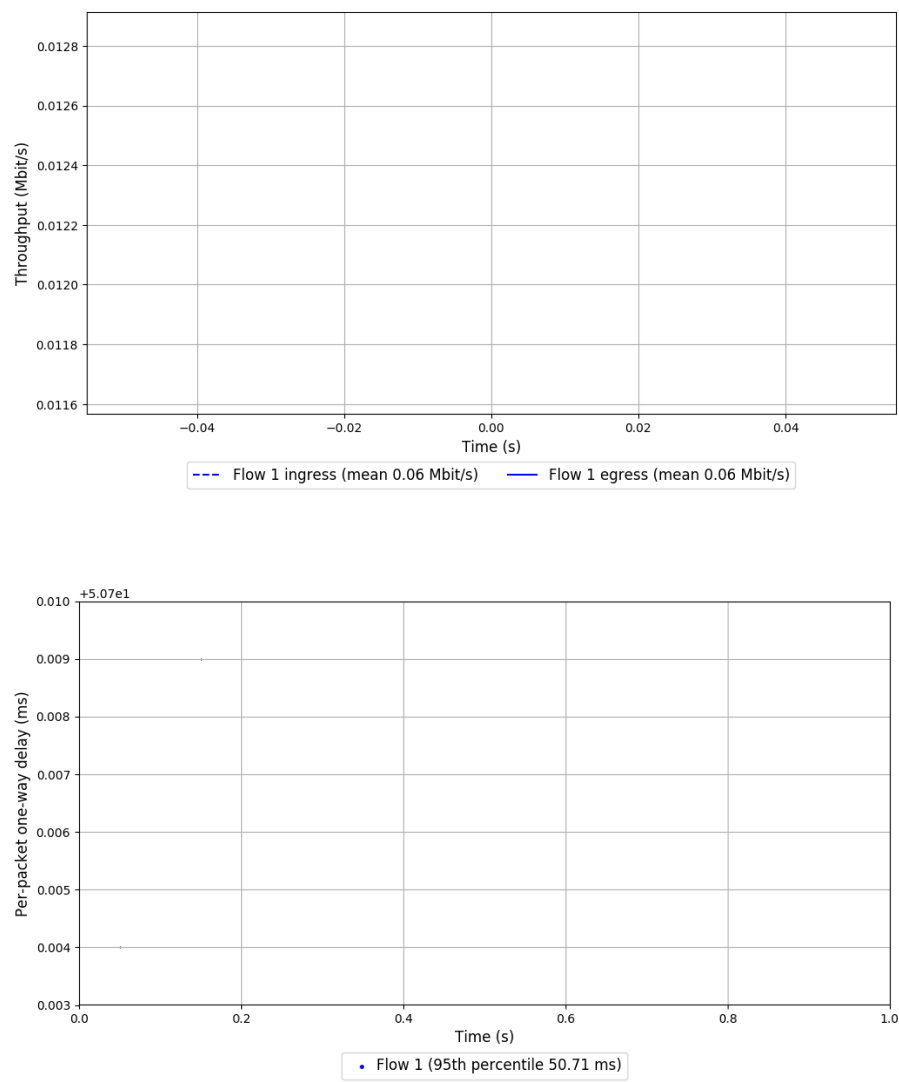


Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 04:46:16

End at: 2017-09-18 04:46:46

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 04:57:14

End at: 2017-09-18 04:57:44

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 50.409 ms

Loss rate: 0.00%

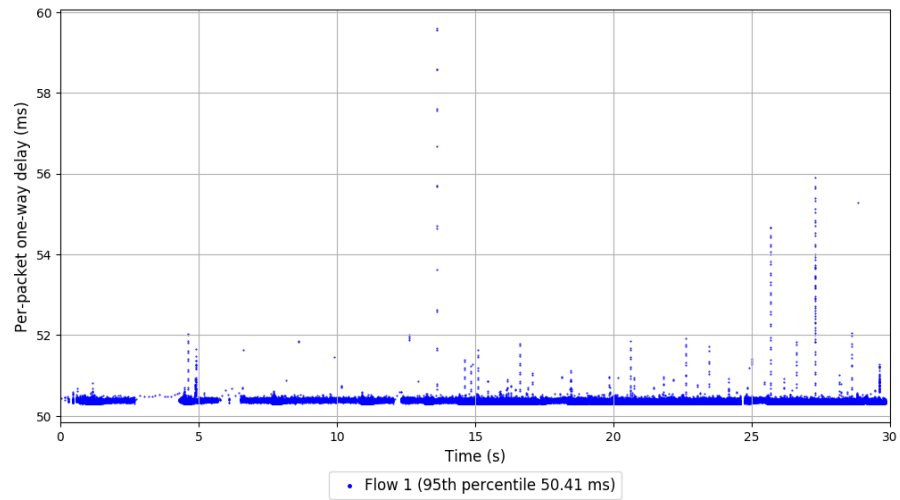
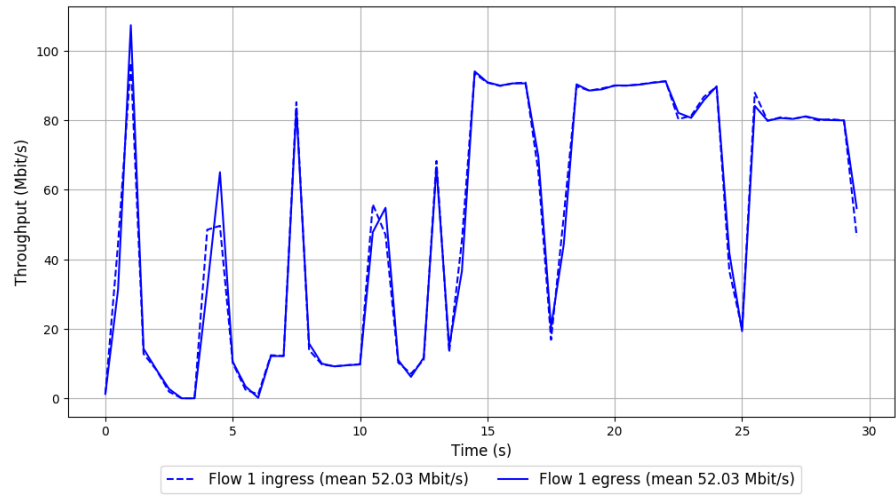
-- Flow 1:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 50.409 ms

Loss rate: 0.00%

#### Run 4: Report of QUIC Cubic — Data Link



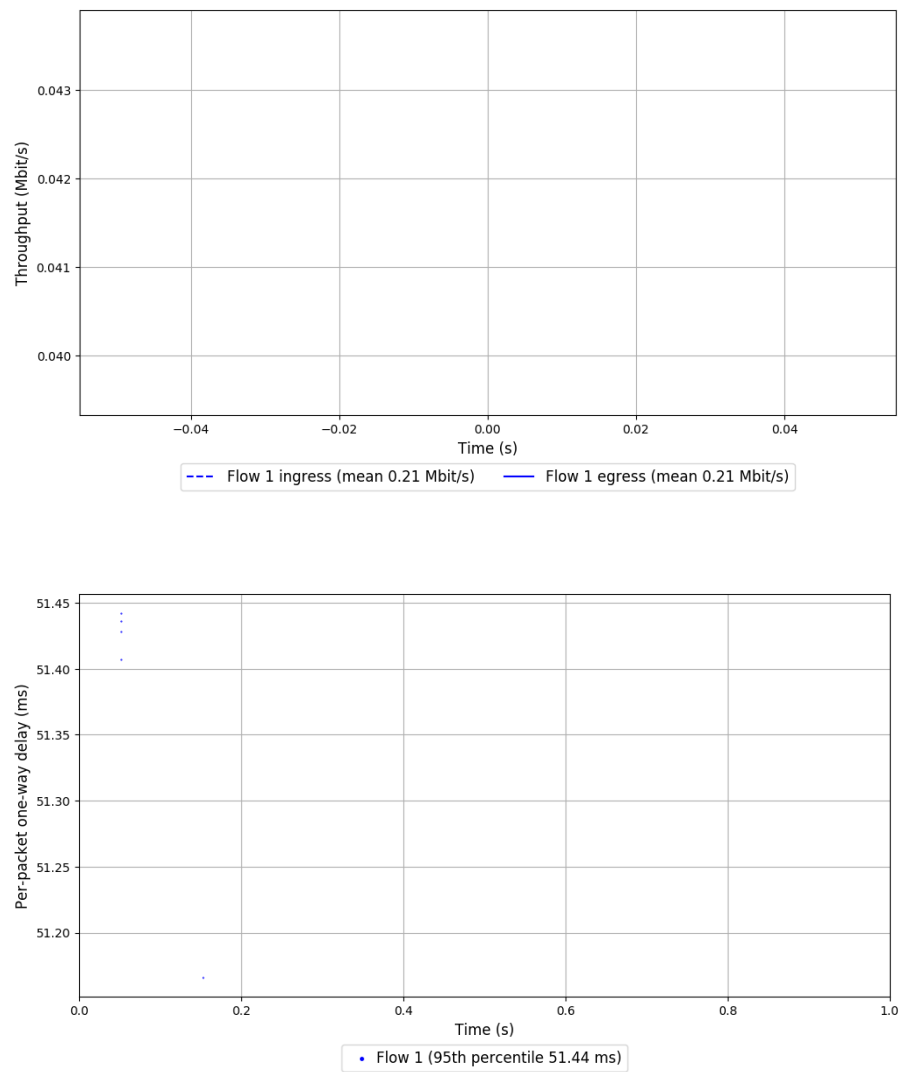
Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 05:08:32

End at: 2017-09-18 05:09:02



Run 5: Report of QUIC Cubic — Data Link

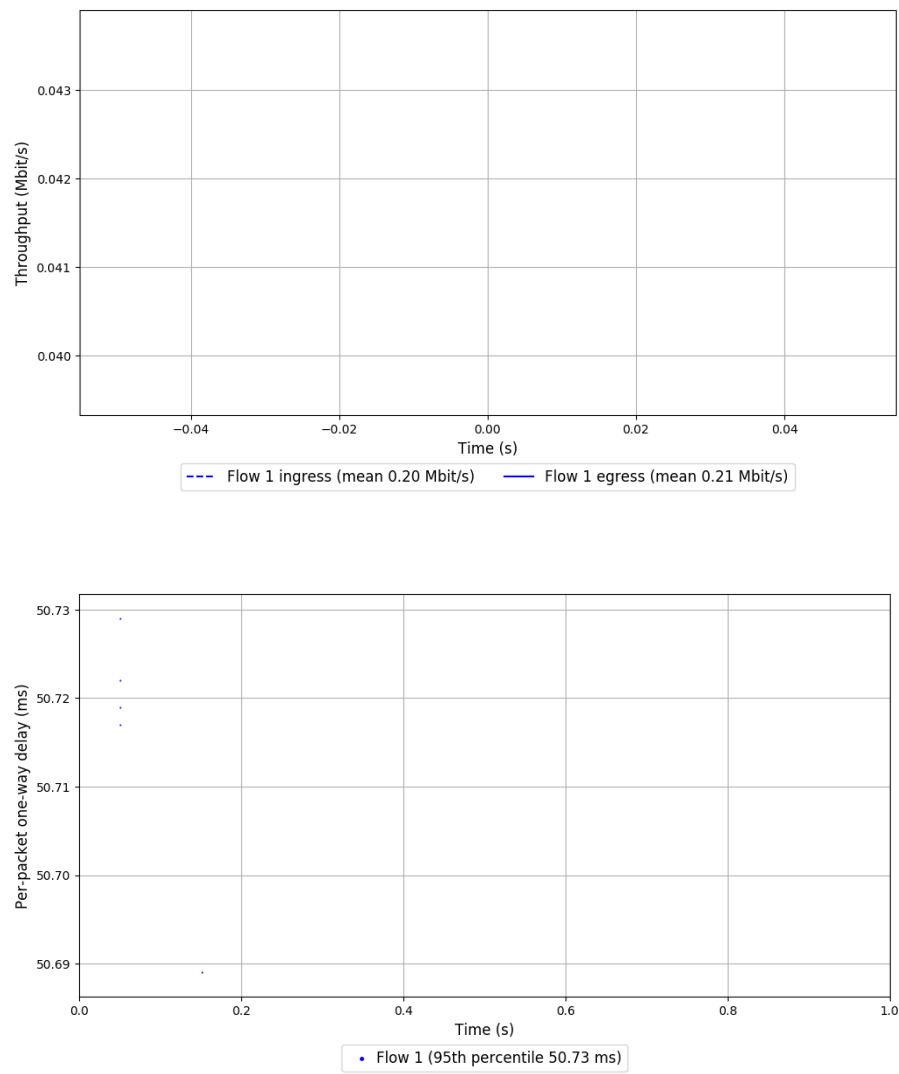


Run 6: Statistics of QUIC Cubic

Start at: 2017-09-18 05:19:37

End at: 2017-09-18 05:20:07

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 05:30:50

End at: 2017-09-18 05:31:20

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 50.155 ms

Loss rate: 0.00%

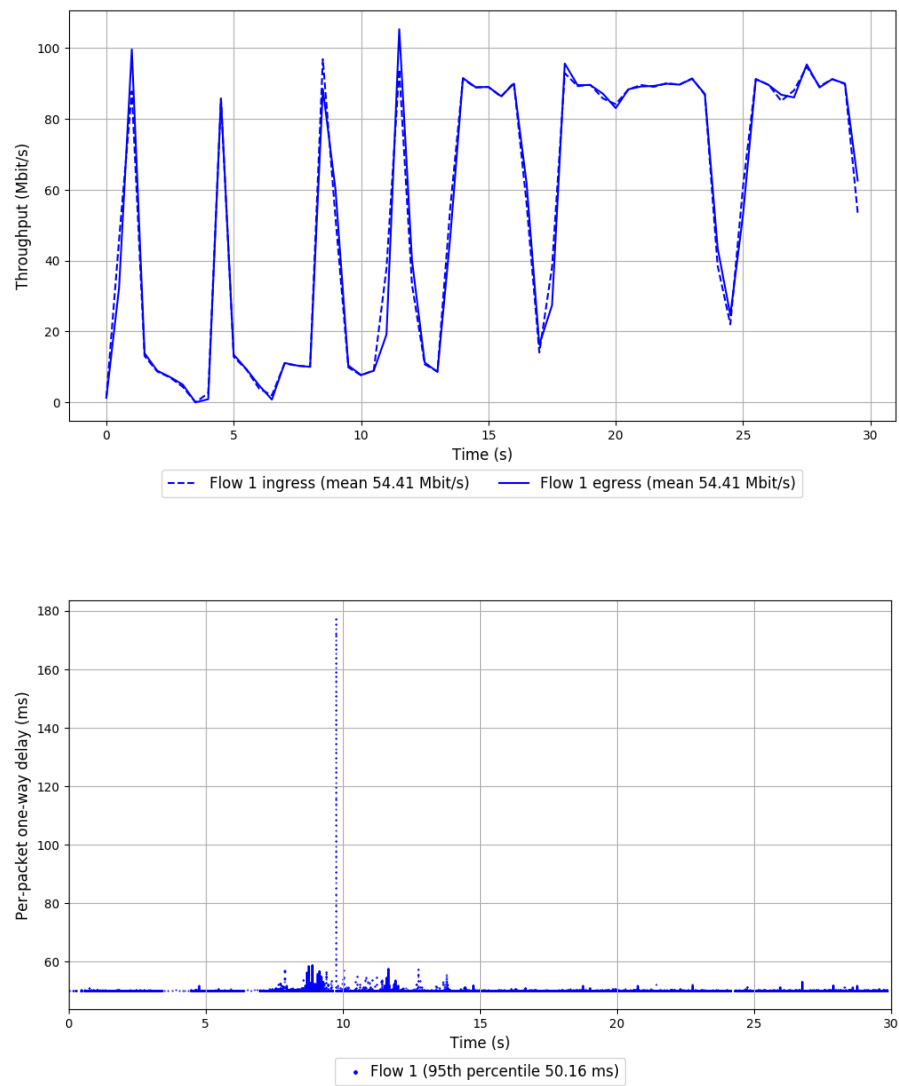
-- Flow 1:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 50.155 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

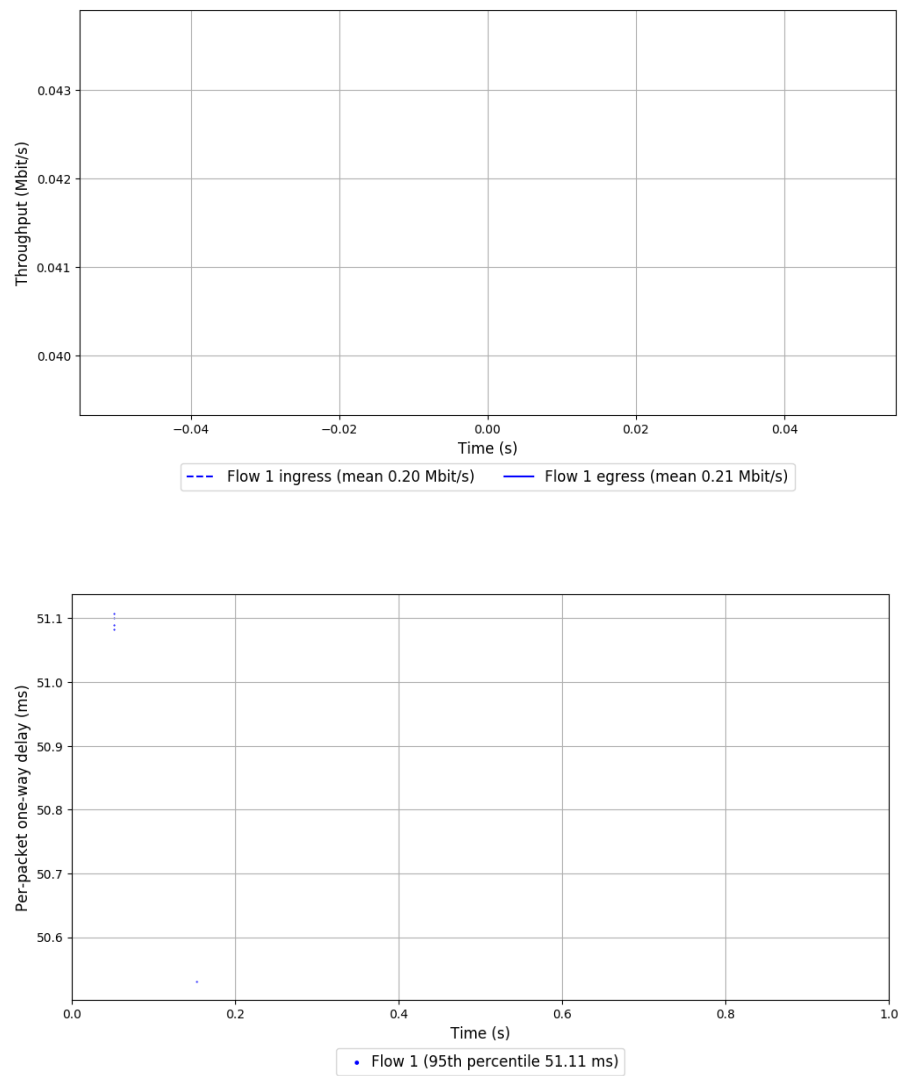


Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 05:42:06

End at: 2017-09-18 05:42:36

Run 8: Report of QUIC Cubic — Data Link



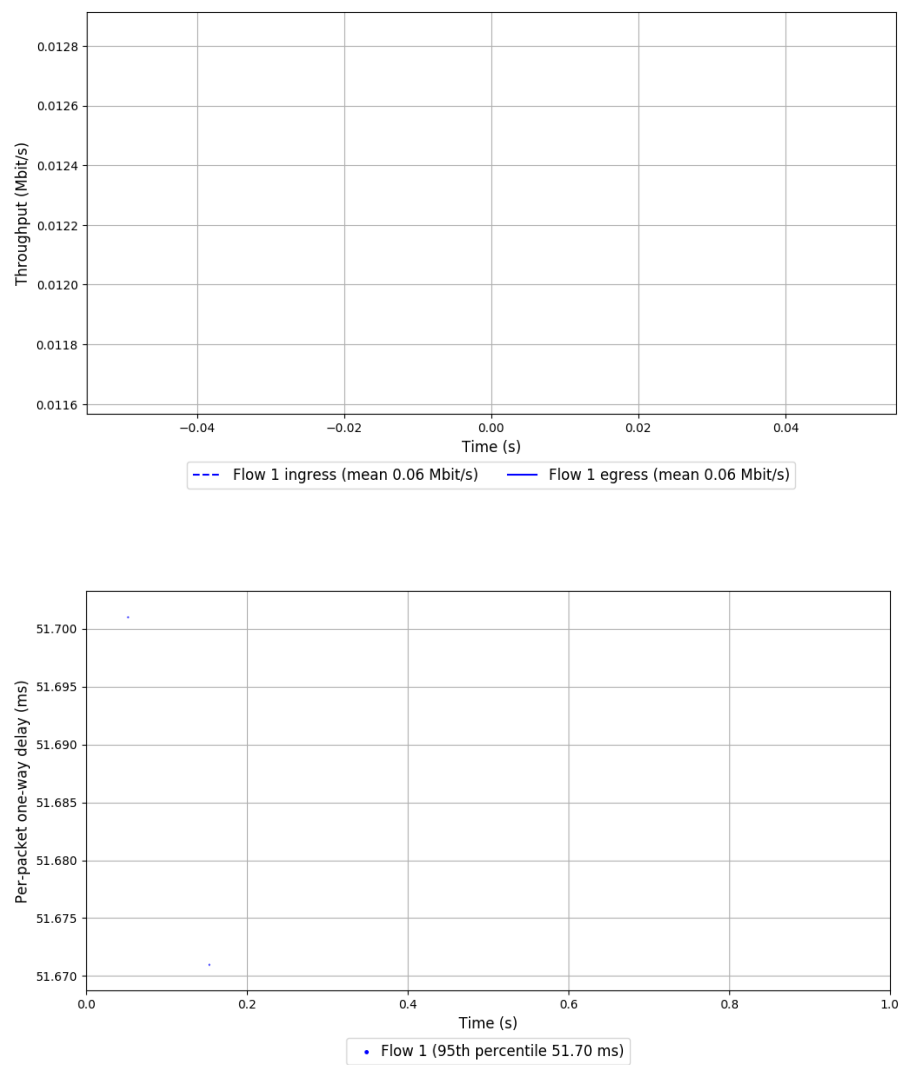
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 05:53:24

End at: 2017-09-18 05:53:54



Run 9: Report of QUIC Cubic — Data Link

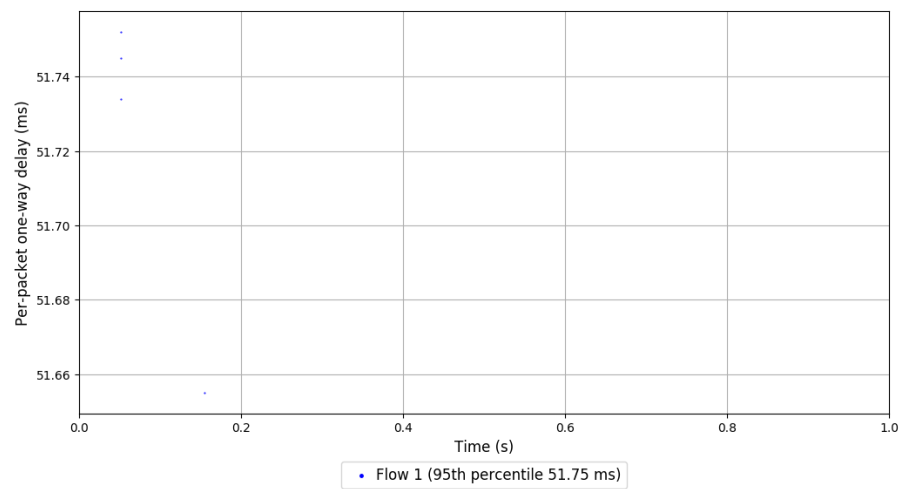
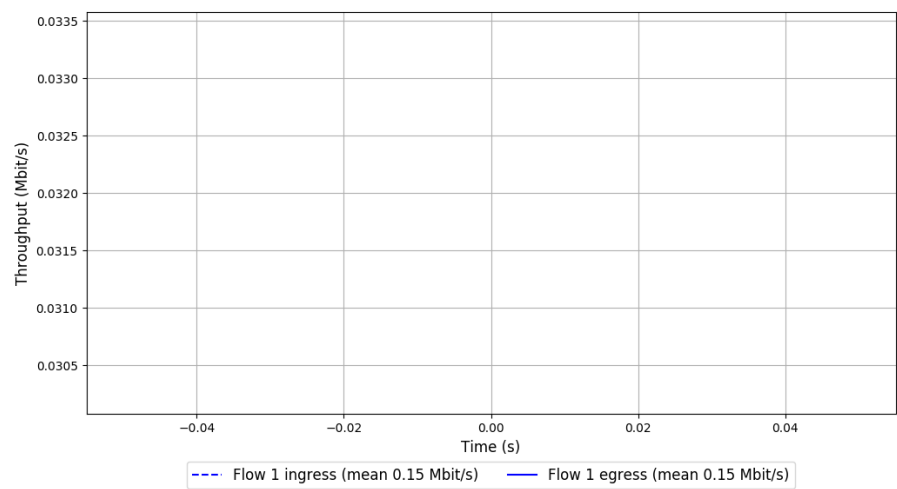


Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 06:04:41

End at: 2017-09-18 06:05:11

Run 10: Report of QUIC Cubic — Data Link

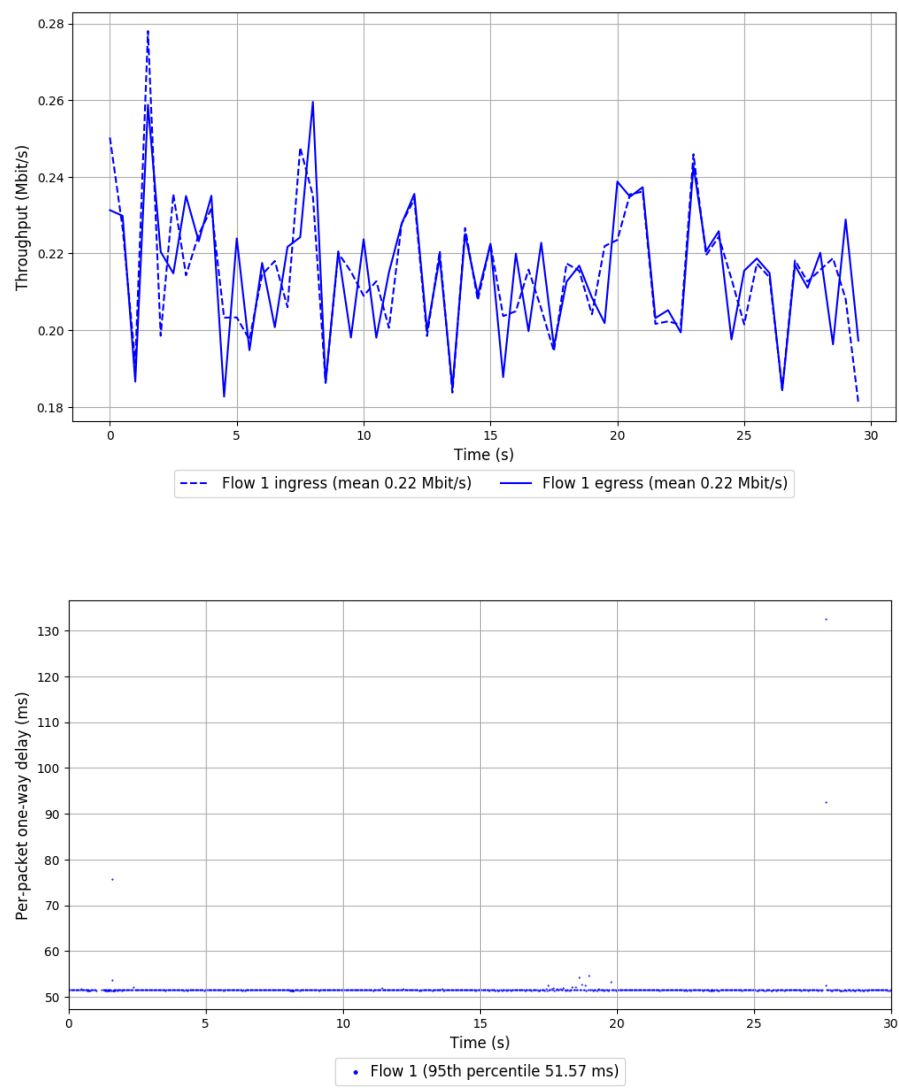


```
Run 1: Statistics of SCReAM

Start at: 2017-09-18 04:27:26
End at: 2017-09-18 04:27:56

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.573 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

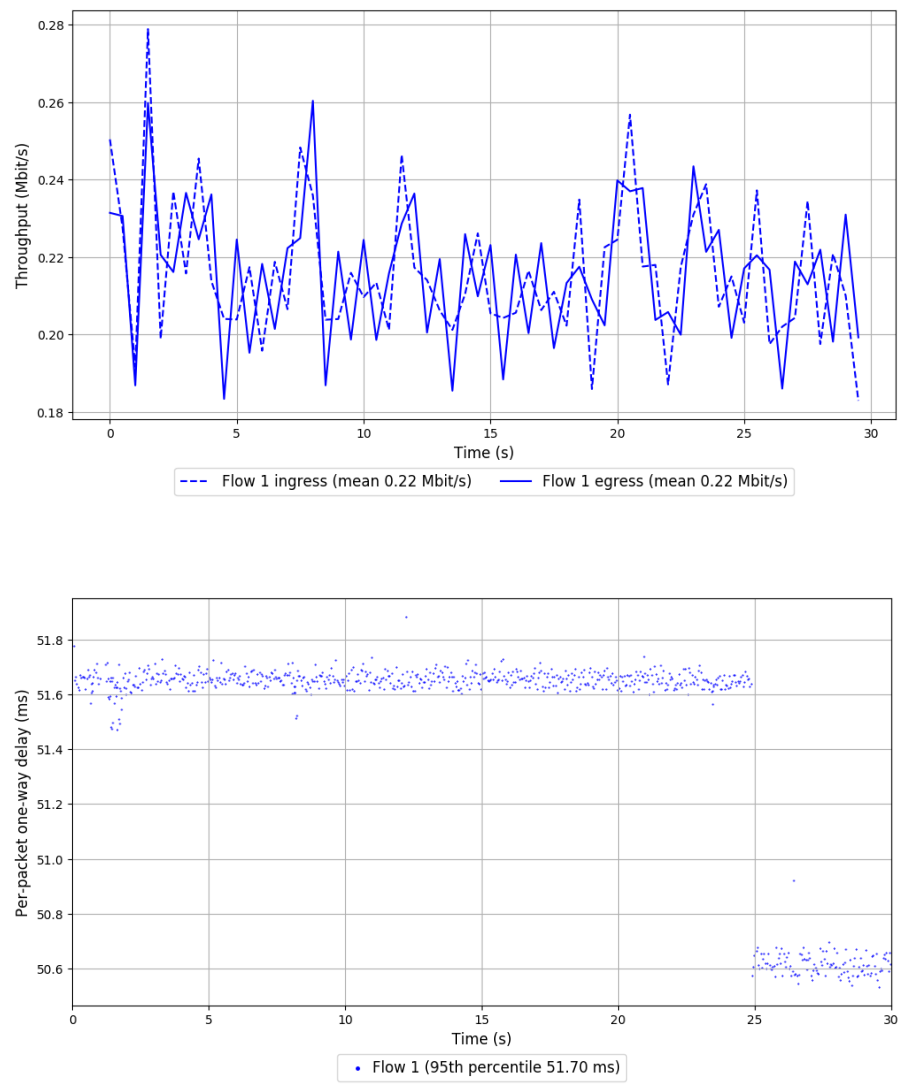


```
Run 2: Statistics of SCReAM

Start at: 2017-09-18 04:38:28
End at: 2017-09-18 04:38:58

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.697 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.697 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-18 04:49:40

End at: 2017-09-18 04:50:10

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.615 ms

Loss rate: 0.00%

-- Flow 1:

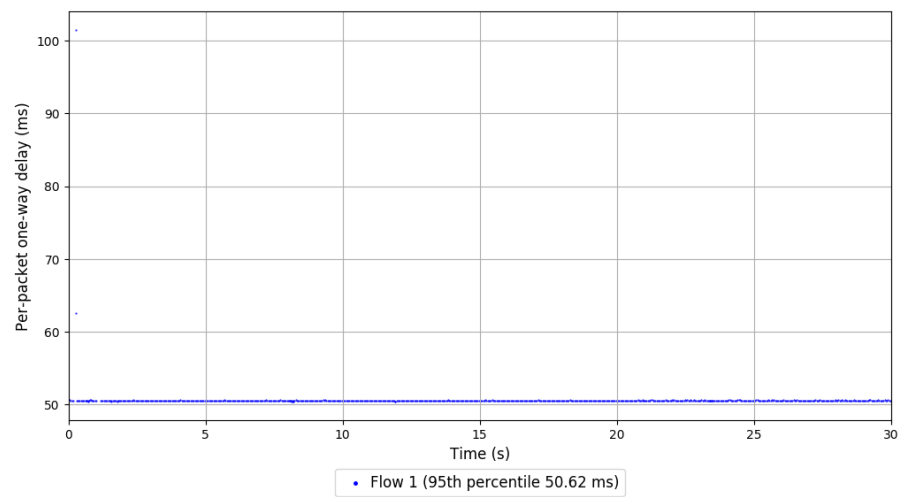
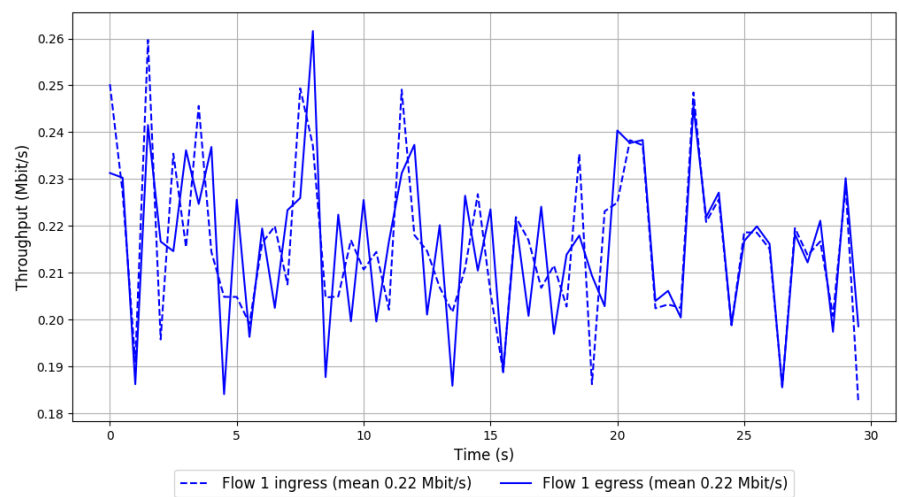
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.615 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-18 05:00:40

End at: 2017-09-18 05:01:10

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.358 ms

Loss rate: 0.00%

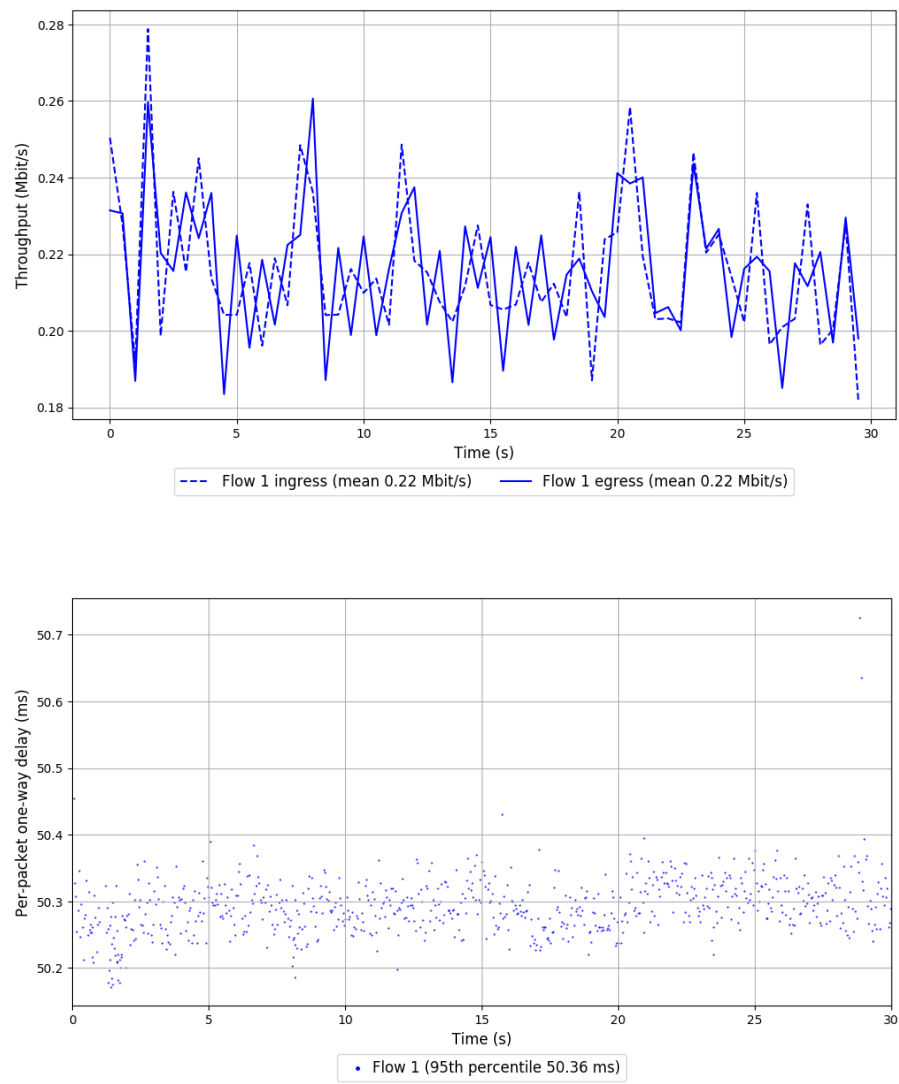
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.358 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-18 05:11:59

End at: 2017-09-18 05:12:29

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.00%

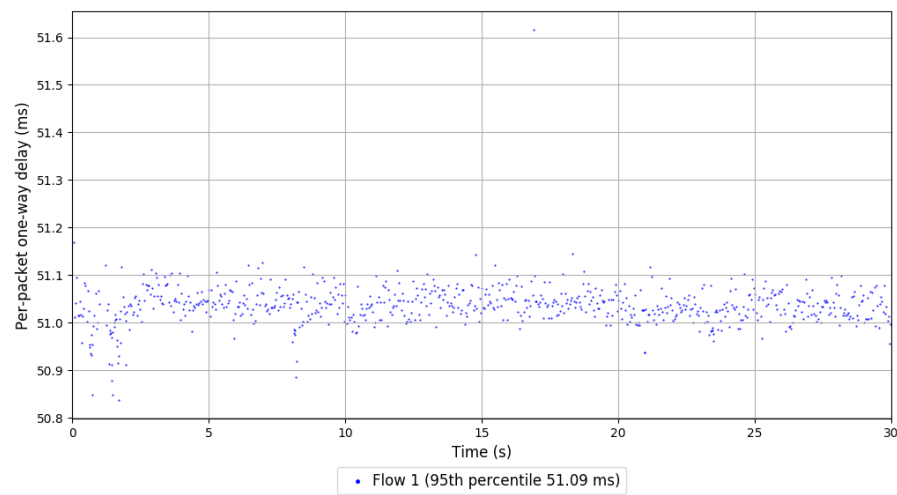
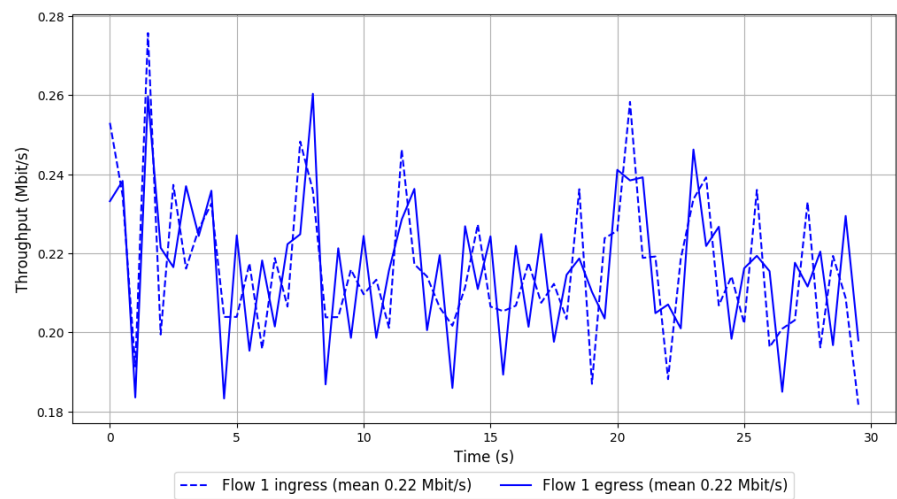
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-18 05:23:01

End at: 2017-09-18 05:23:31

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.823 ms

Loss rate: 0.00%

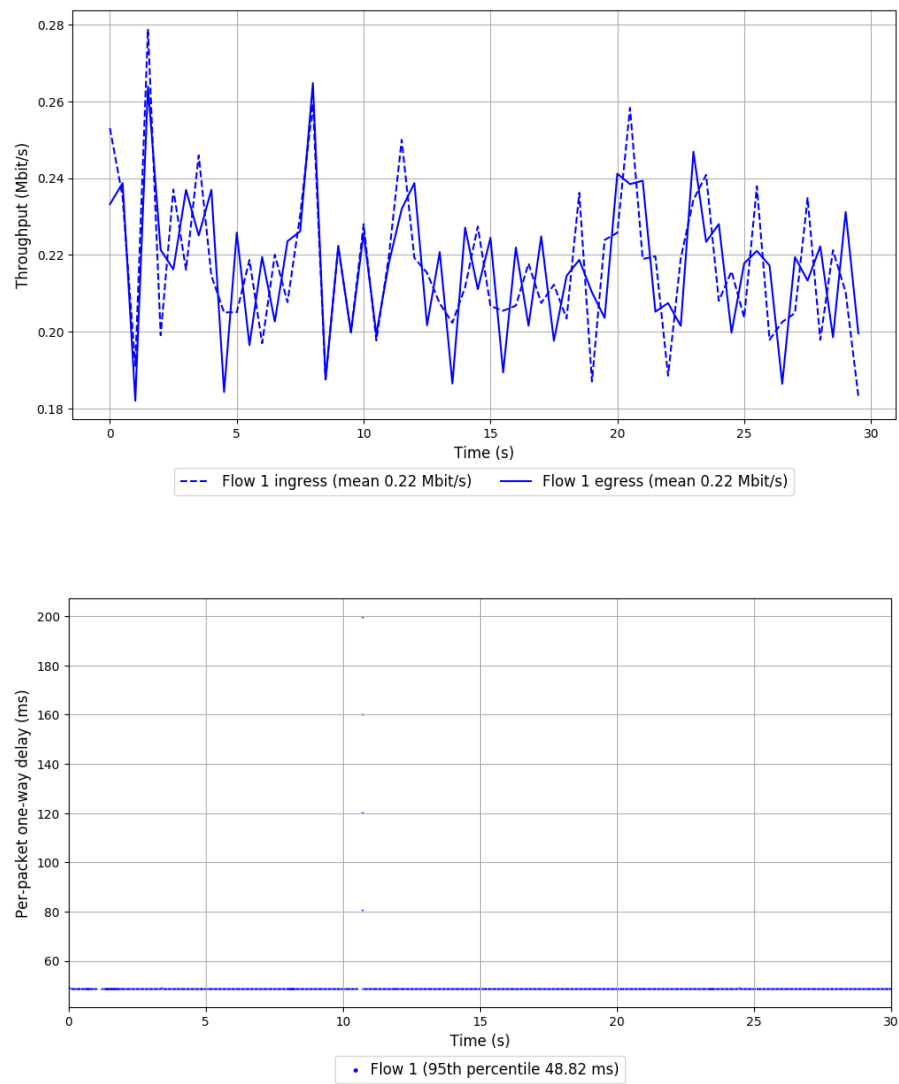
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.823 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-18 05:34:18

End at: 2017-09-18 05:34:48

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.304 ms

Loss rate: 0.00%

-- Flow 1:

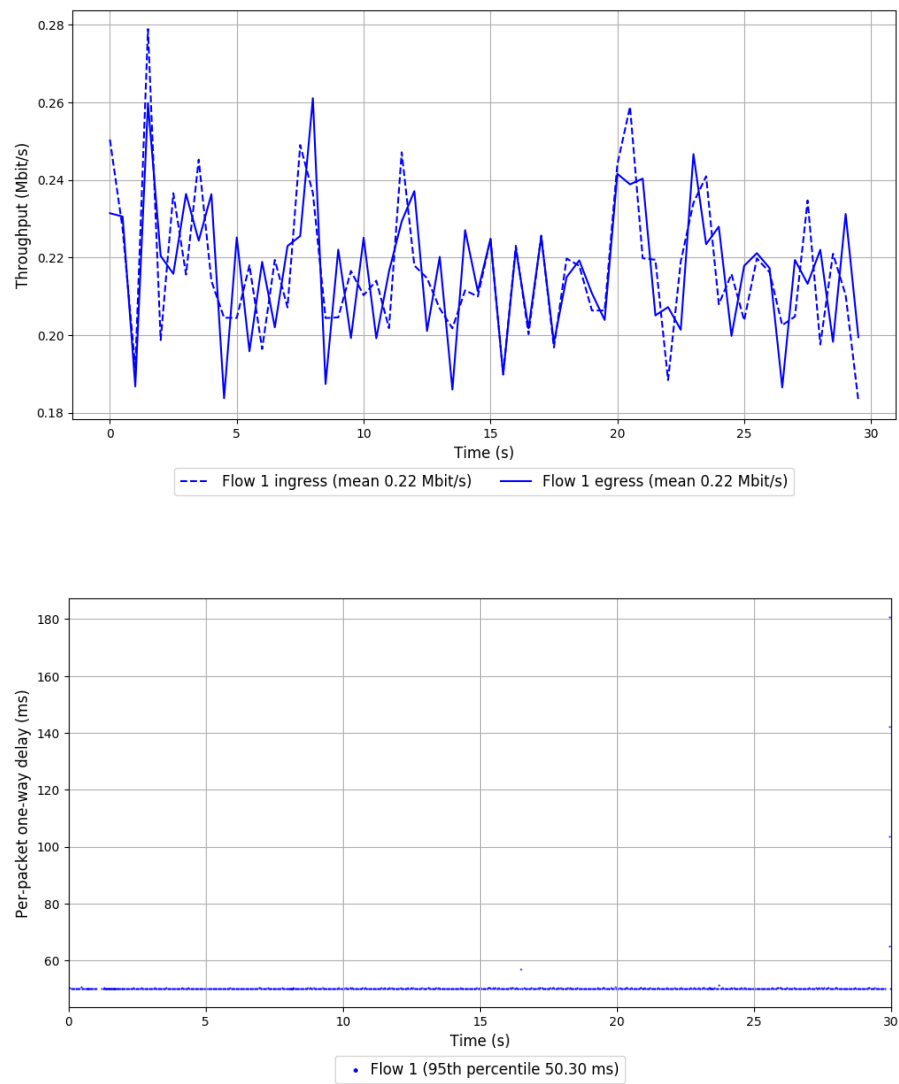
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.304 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-18 05:45:30

End at: 2017-09-18 05:46:00

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.887 ms

Loss rate: 0.00%

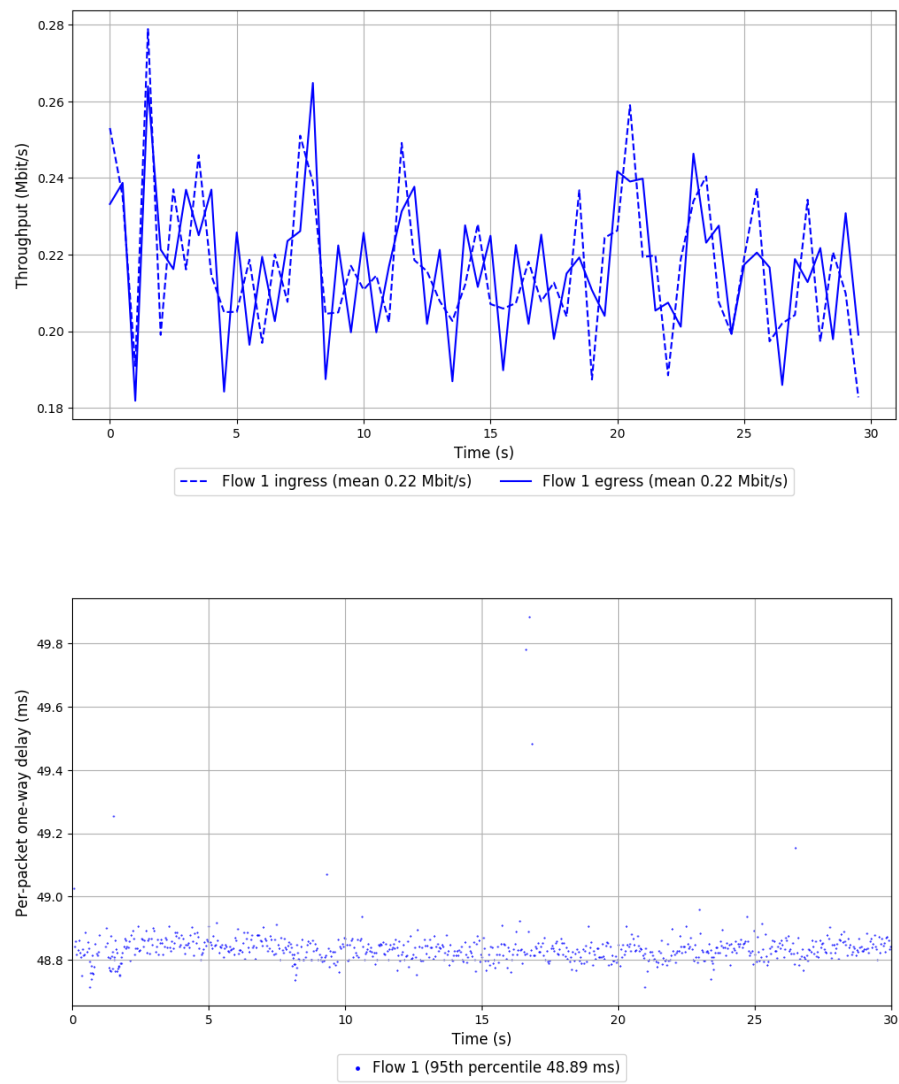
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.887 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-18 05:56:49

End at: 2017-09-18 05:57:19

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.900 ms

Loss rate: 0.00%

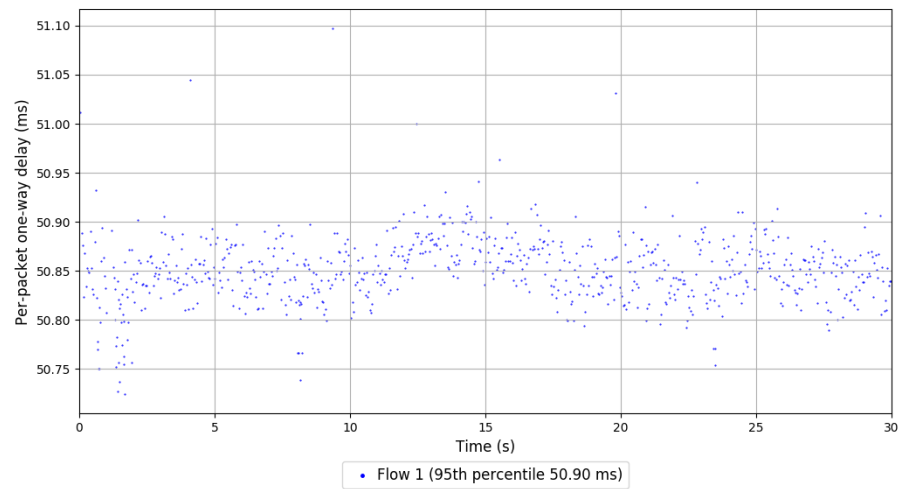
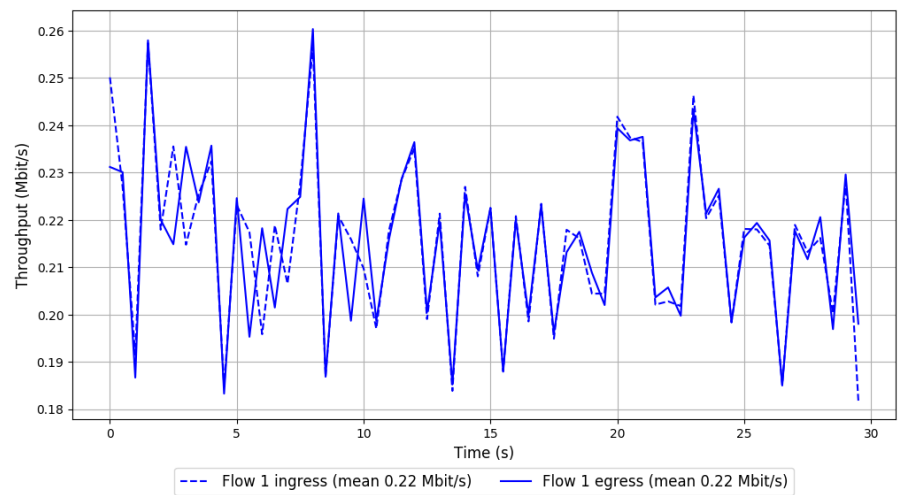
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.900 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

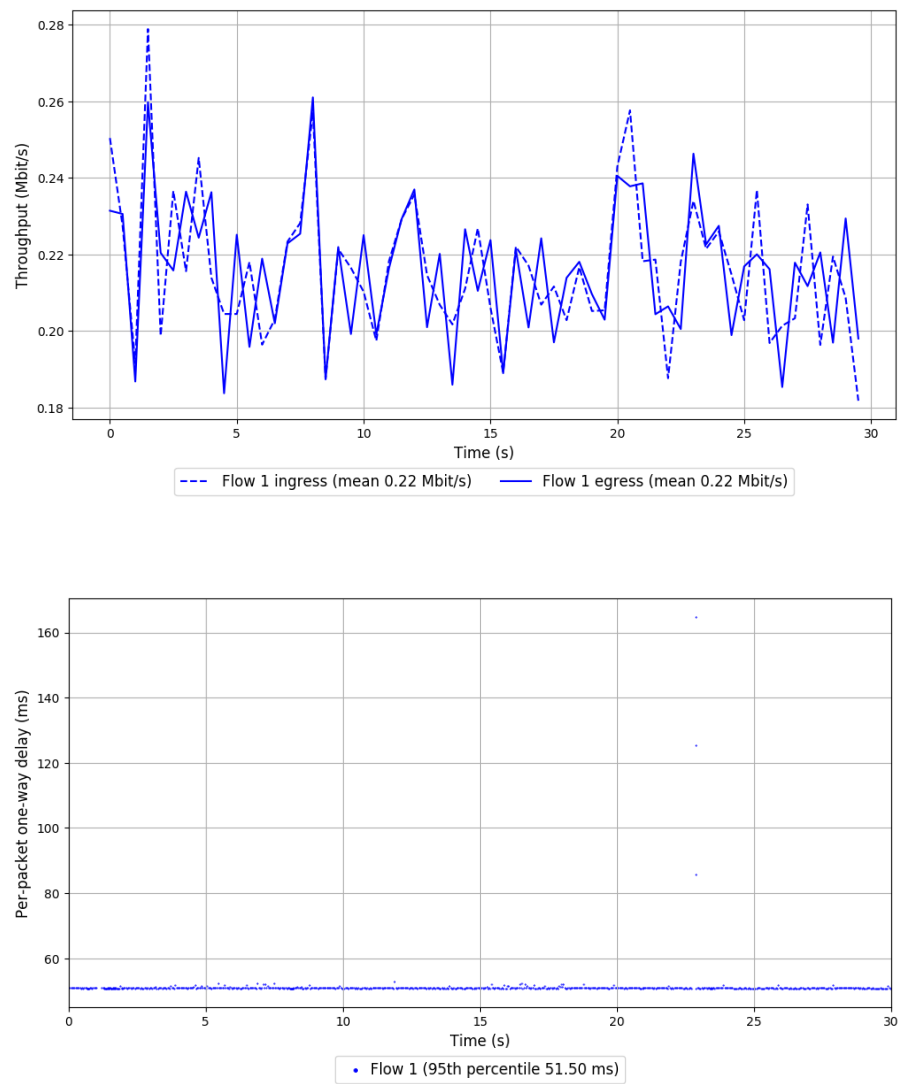


```
Run 10: Statistics of SReAM

Start at: 2017-09-18 06:08:05
End at: 2017-09-18 06:08:35

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.504 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link



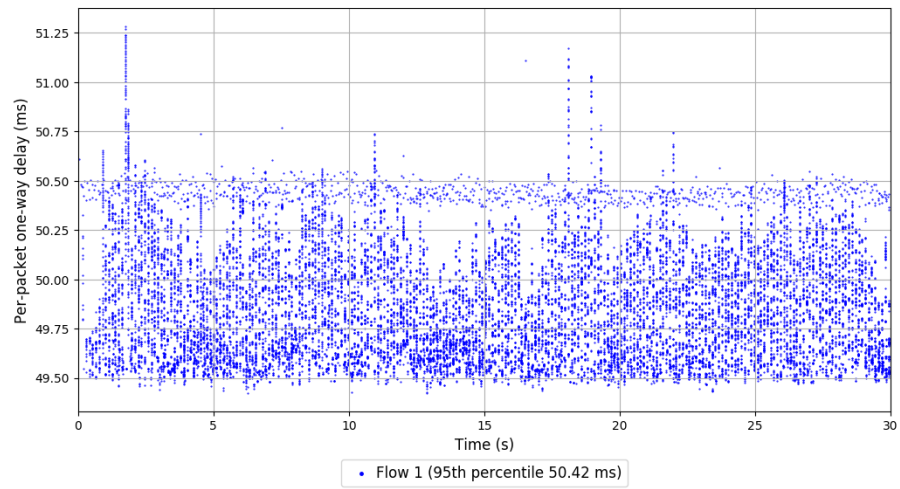
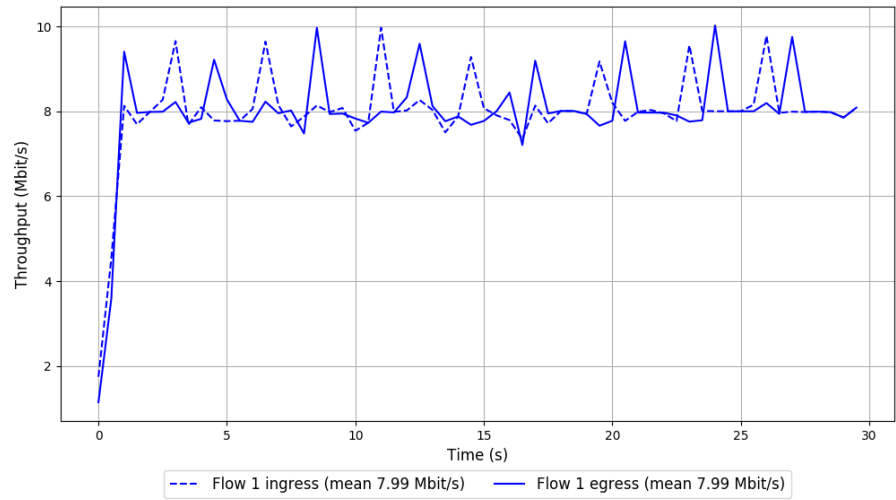
```
Run 1: Statistics of Sprout

Start at: 2017-09-18 04:22:25
End at: 2017-09-18 04:22:55

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 50.419 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 50.419 ms
Loss rate: 0.00%
```



# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-18 04:33:26

End at: 2017-09-18 04:33:56

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.055 ms

Loss rate: 0.00%

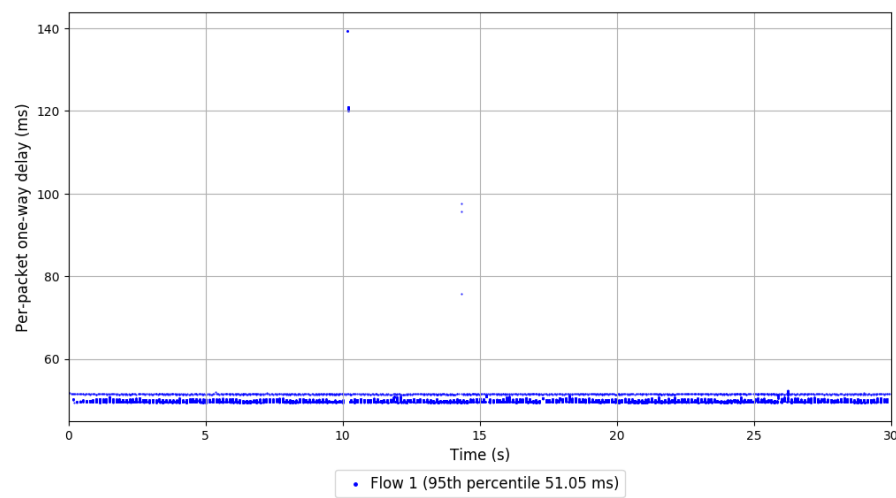
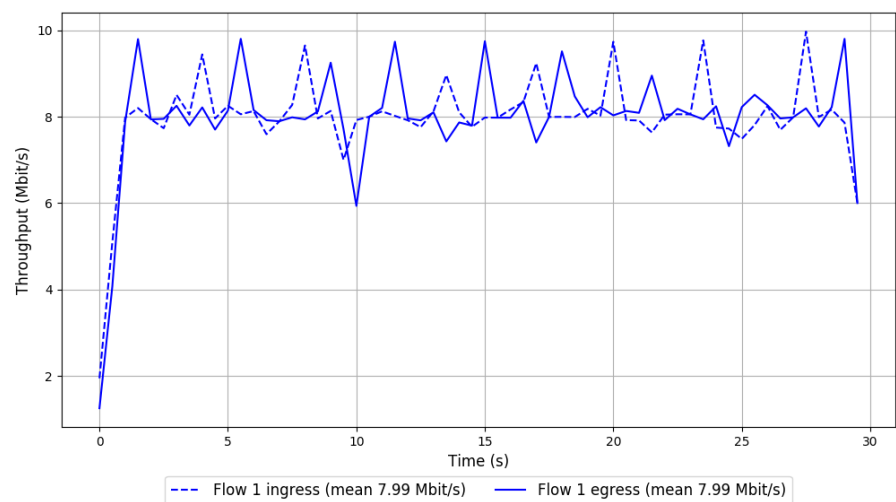
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.055 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-18 04:44:43

End at: 2017-09-18 04:45:13

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 51.856 ms

Loss rate: 0.01%

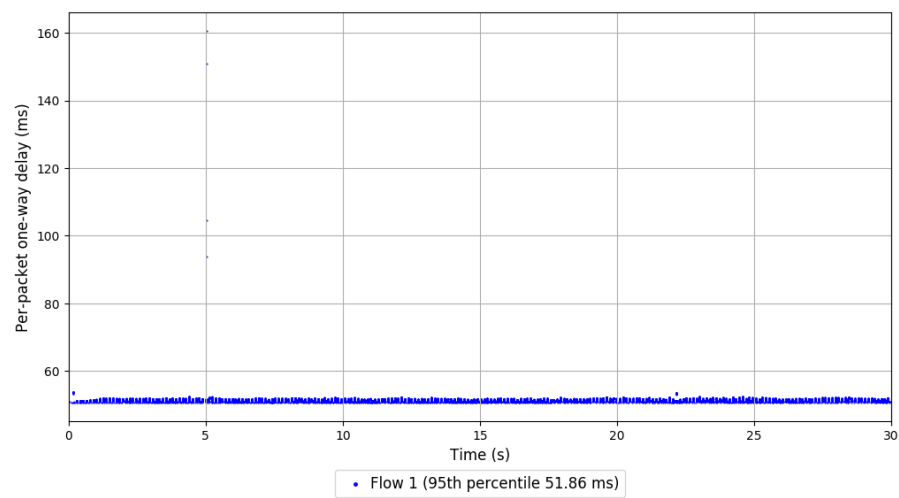
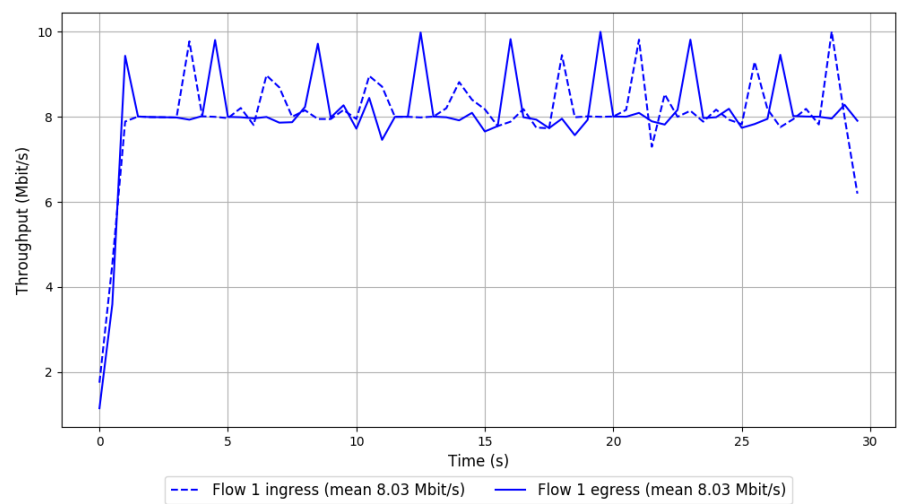
-- Flow 1:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 51.856 ms

Loss rate: 0.01%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-18 04:55:40

End at: 2017-09-18 04:56:10

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.632 ms

Loss rate: 0.01%

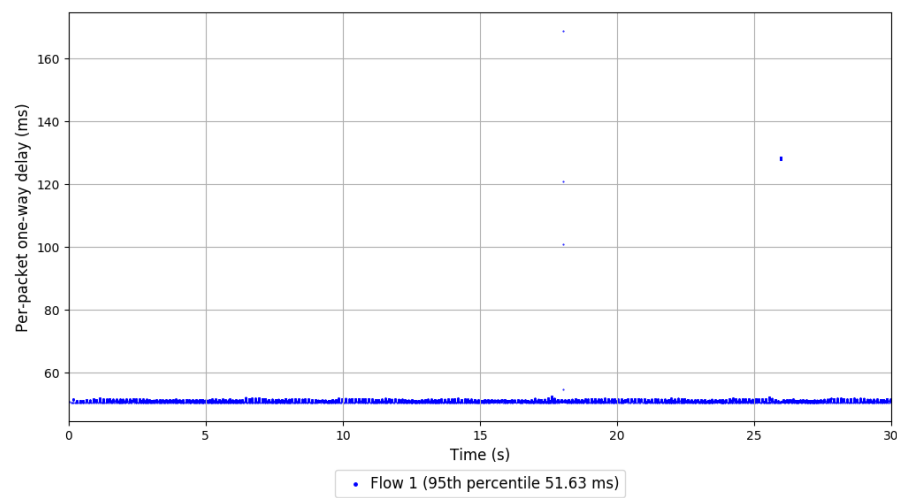
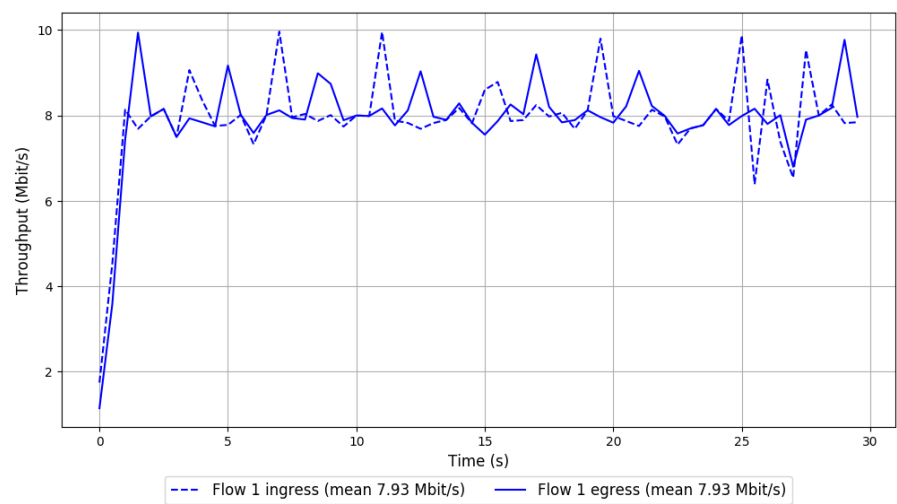
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.632 ms

Loss rate: 0.01%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-18 05:06:59

End at: 2017-09-18 05:07:29

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.04%

-- Flow 1:

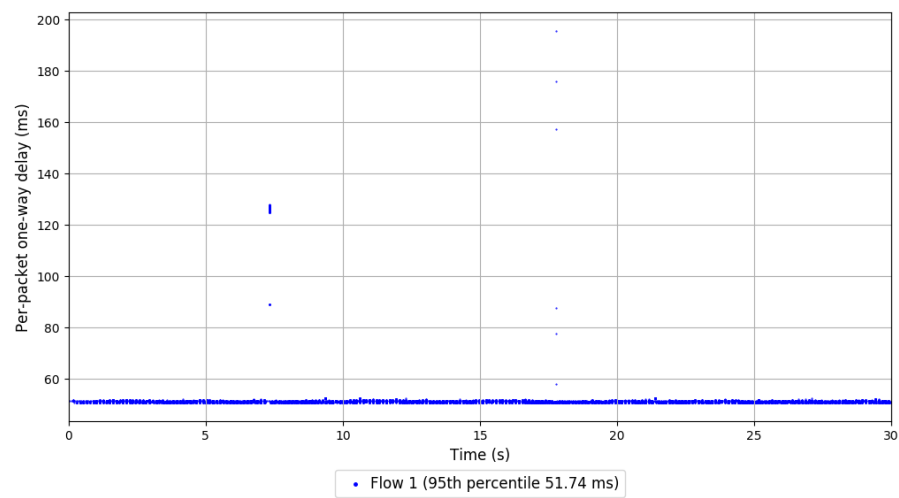
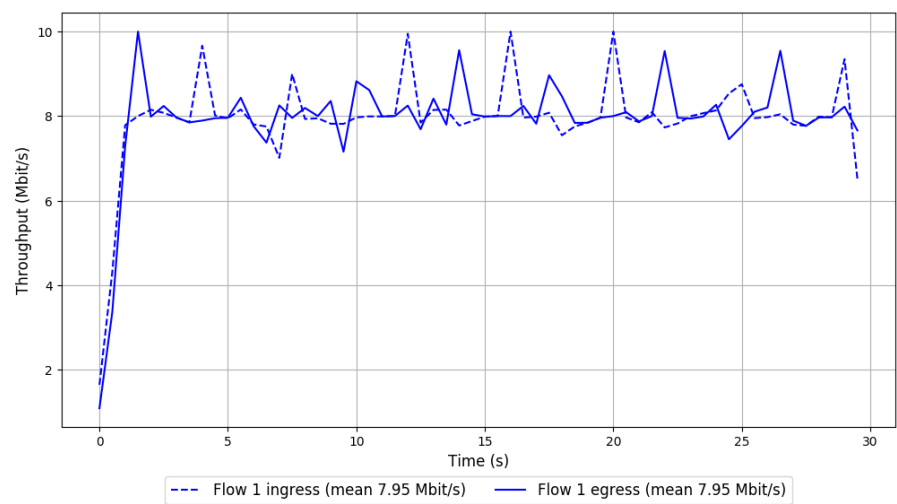
Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.04%



Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-18 05:18:03

End at: 2017-09-18 05:18:33

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.758 ms

Loss rate: 0.04%

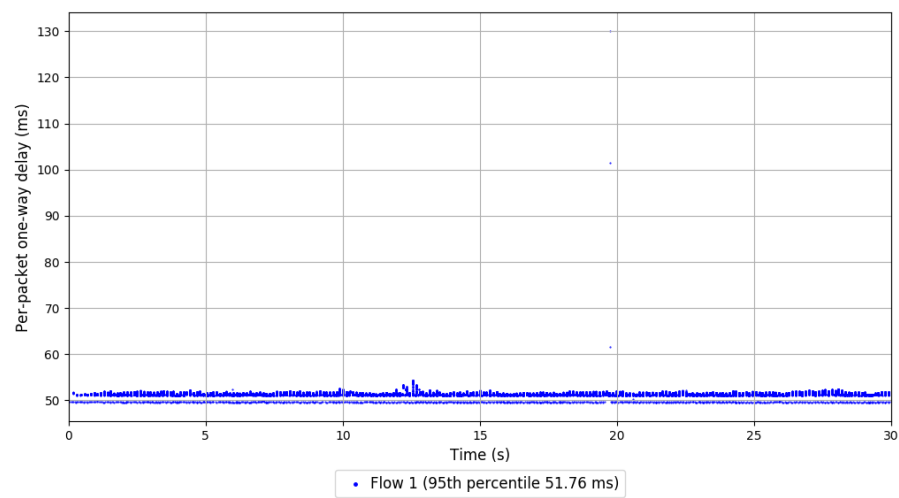
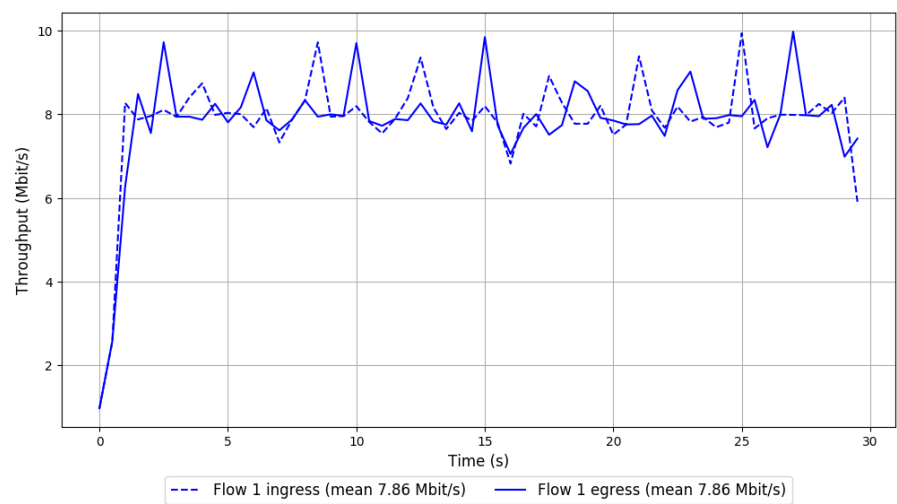
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.758 ms

Loss rate: 0.04%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-18 05:29:16

End at: 2017-09-18 05:29:46

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.804 ms

Loss rate: 0.00%

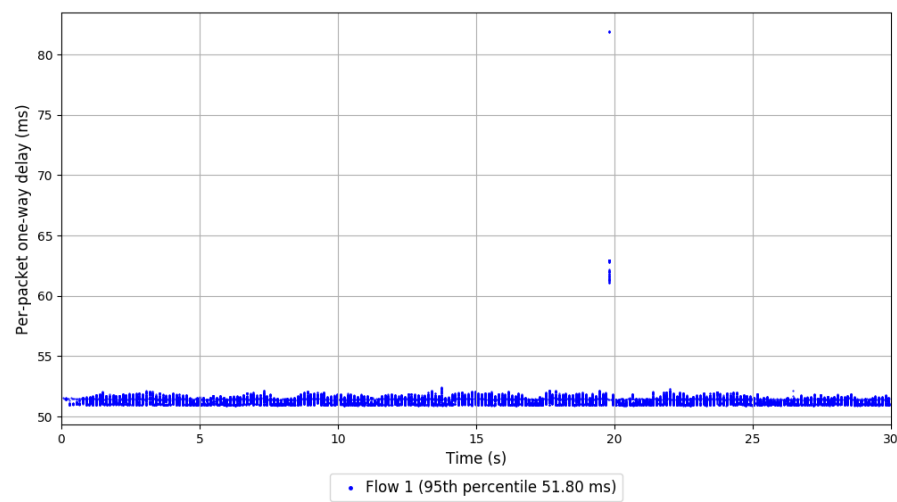
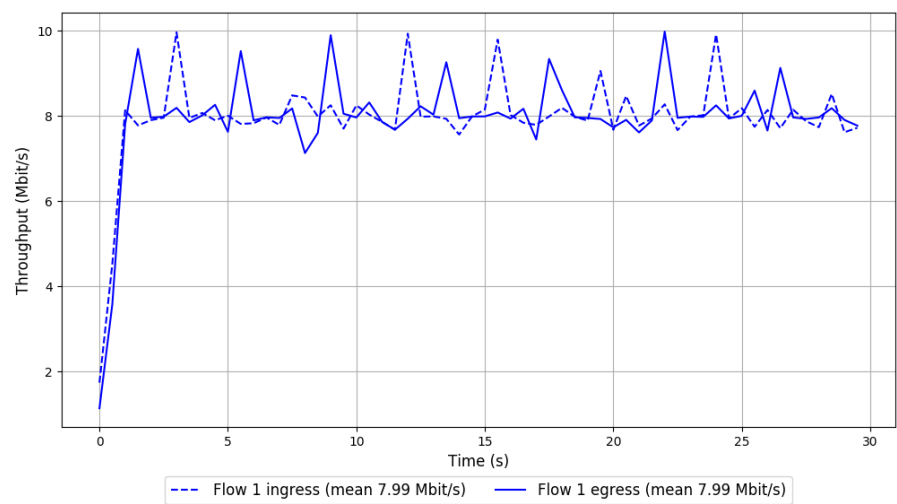
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.804 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-18 05:40:32

End at: 2017-09-18 05:41:02

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.441 ms

Loss rate: 0.01%

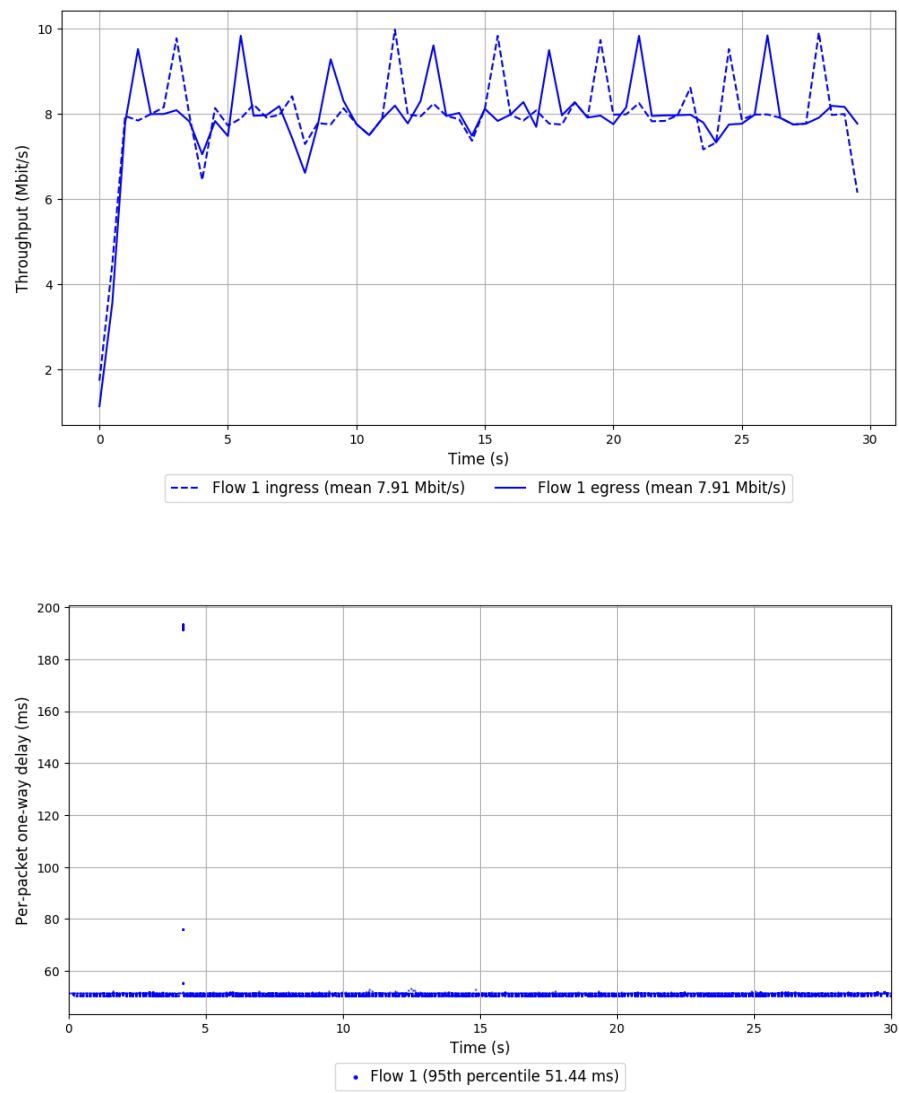
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.441 ms

Loss rate: 0.01%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-18 05:51:49

End at: 2017-09-18 05:52:19

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 52.424 ms

Loss rate: 0.00%

-- Flow 1:

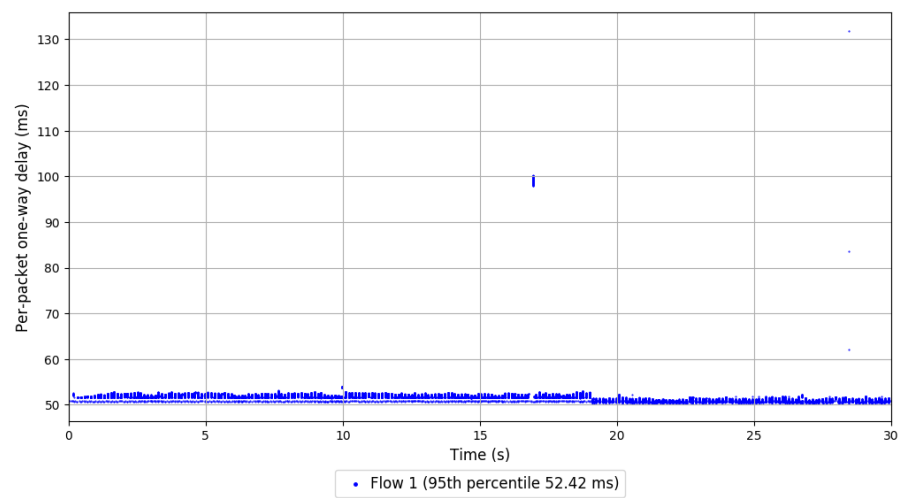
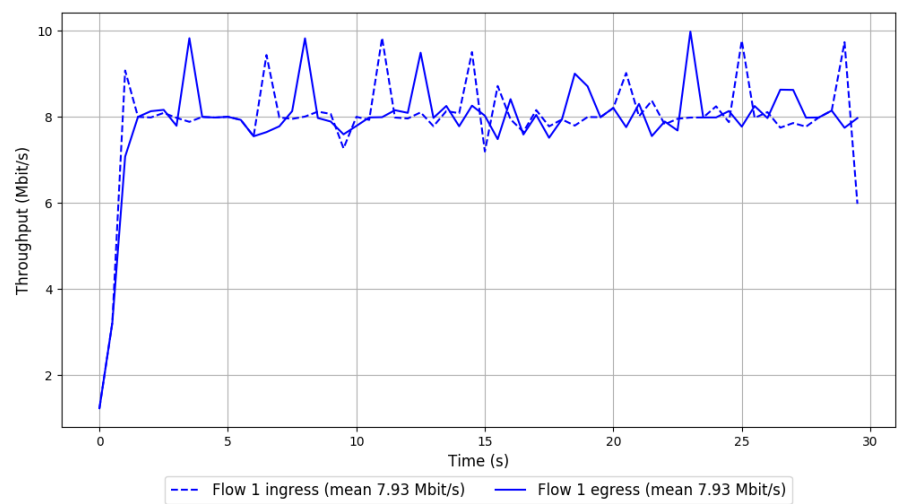
Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 52.424 ms

Loss rate: 0.00%



Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-18 06:03:07

End at: 2017-09-18 06:03:37

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.371 ms

Loss rate: 0.01%

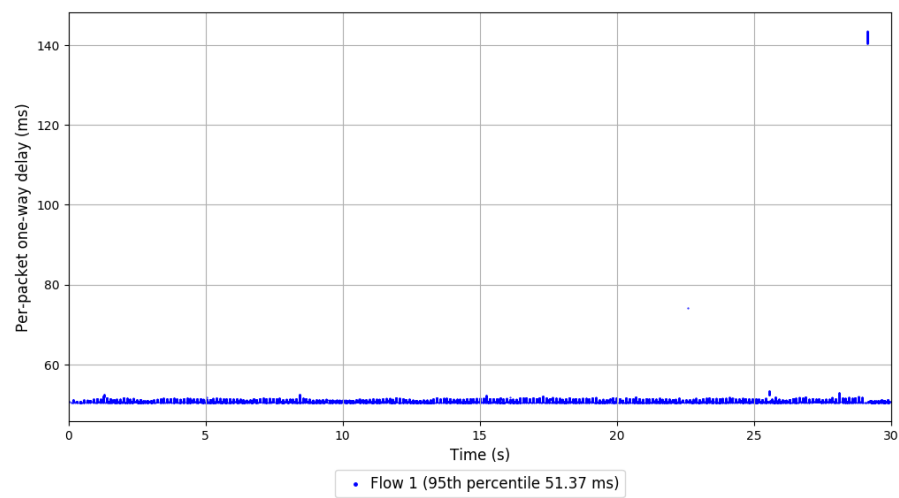
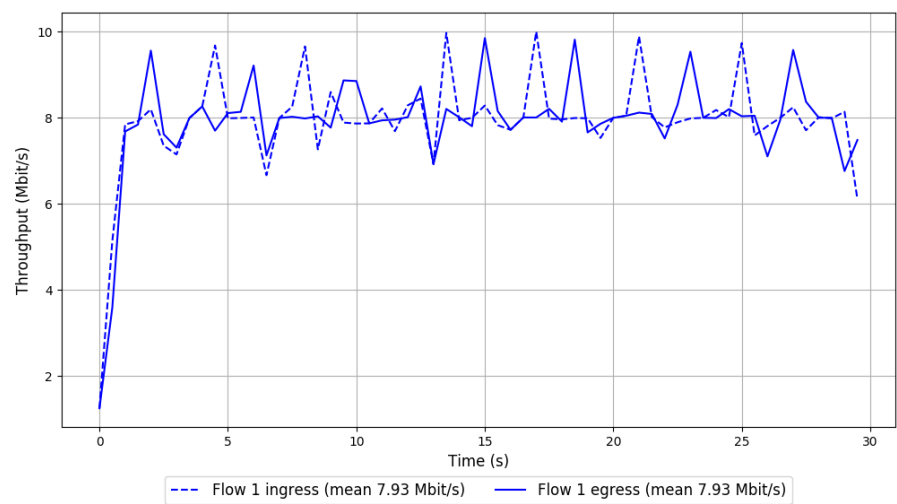
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.371 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link

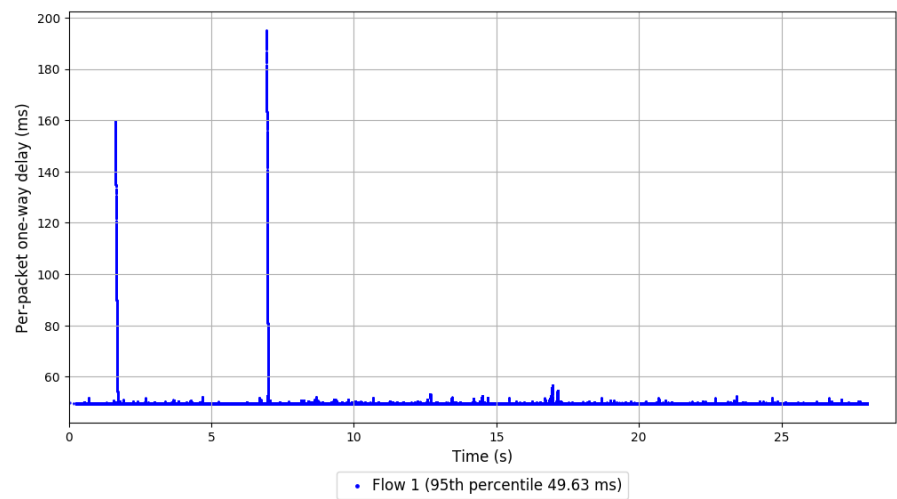
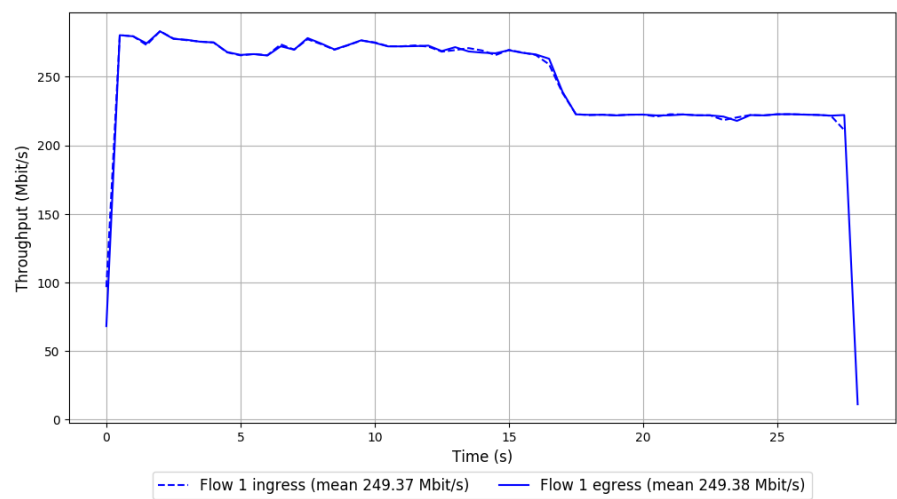


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 04:28:02
End at: 2017-09-18 04:28:33

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.38 Mbit/s
95th percentile per-packet one-way delay: 49.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 249.38 Mbit/s
95th percentile per-packet one-way delay: 49.634 ms
Loss rate: 0.00%
```

Run 1: Report of TaoVA-100x — Data Link

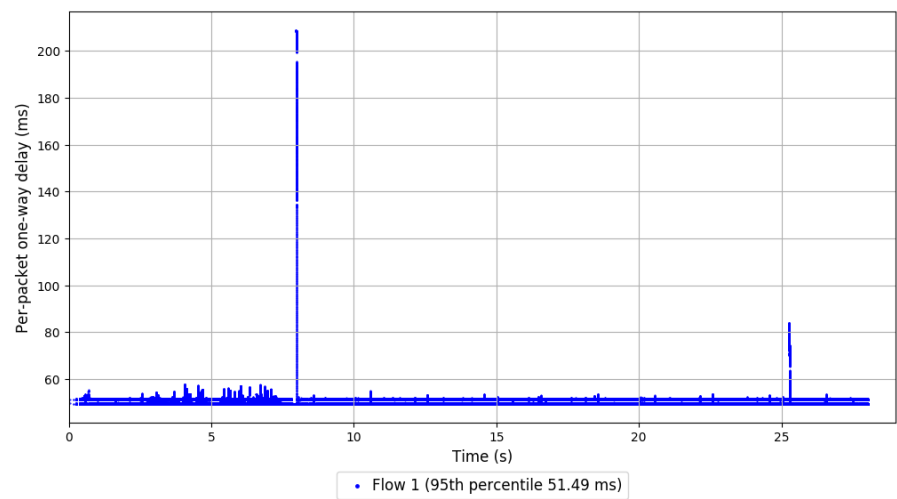
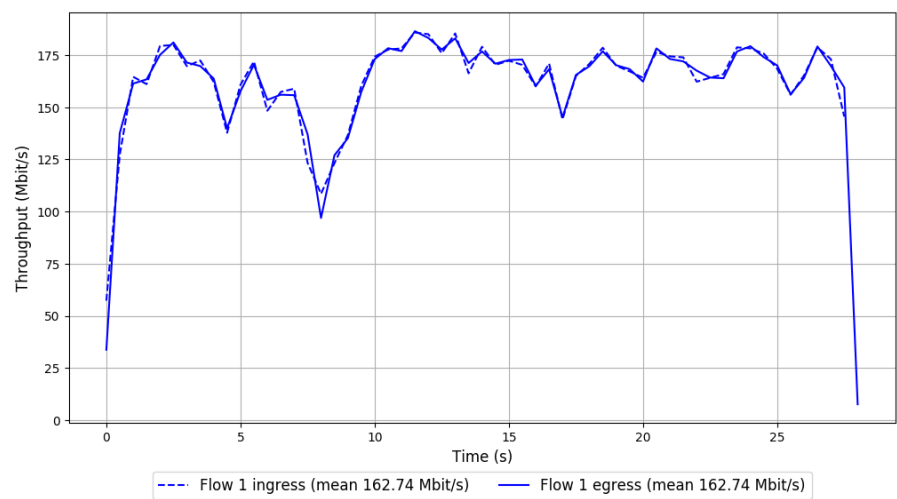


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 04:39:05
End at: 2017-09-18 04:39:35

# Below is generated by plot.py at 2017-09-18 08:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.74 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.74 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
```

Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 04:50:16

End at: 2017-09-18 04:50:47

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 259.12 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 0.00%

-- Flow 1:

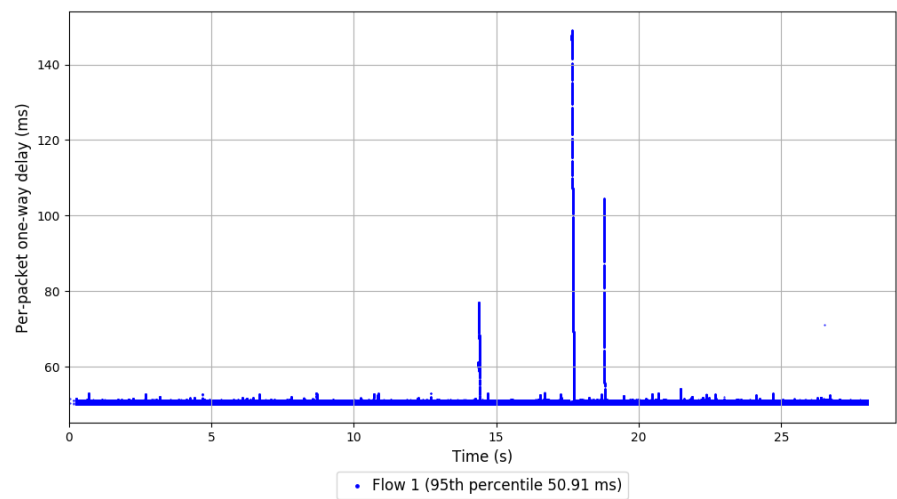
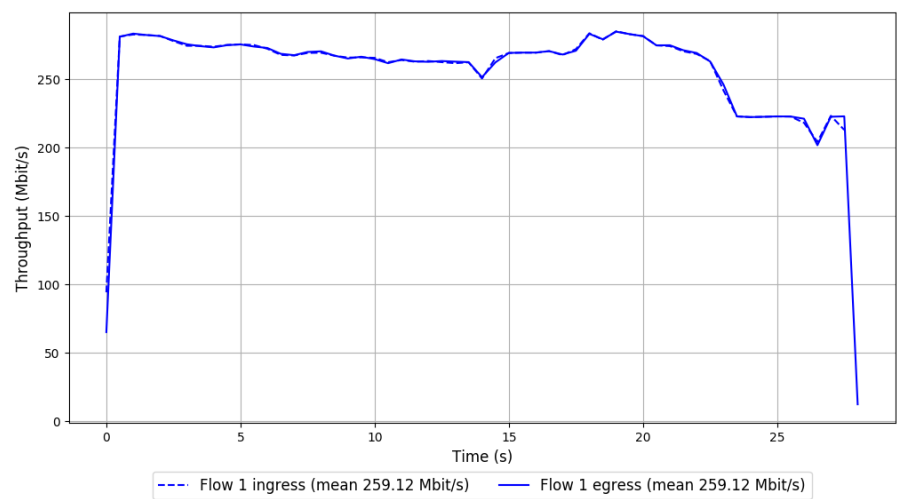
Average throughput: 259.12 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 0.00%



Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 05:01:17

End at: 2017-09-18 05:01:47

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 230.63 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.00%

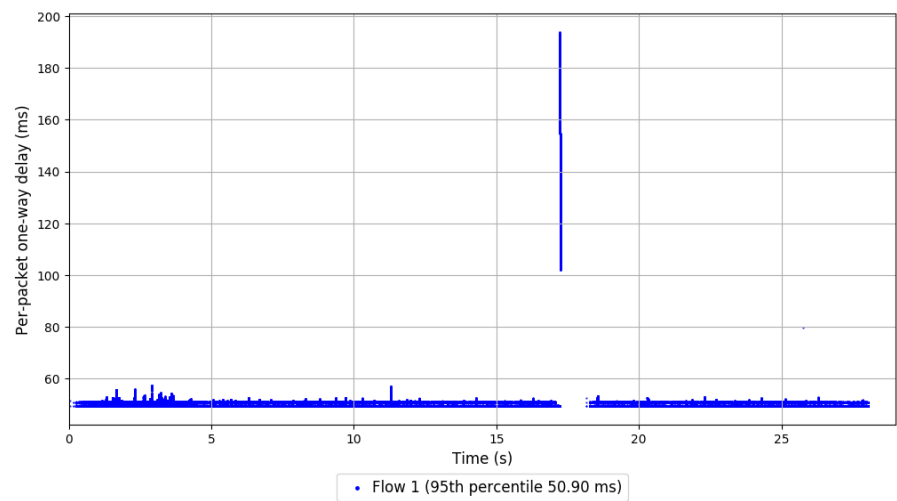
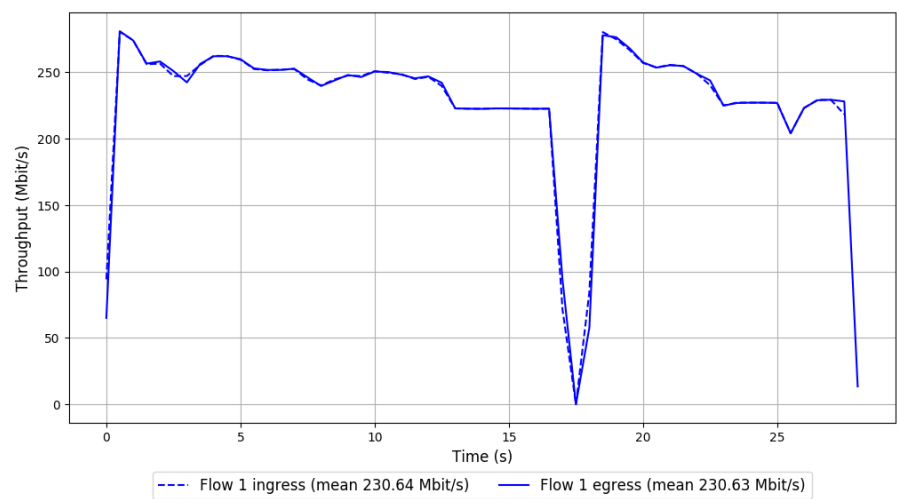
-- Flow 1:

Average throughput: 230.63 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.00%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 05:12:35

End at: 2017-09-18 05:13:05

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 251.51 Mbit/s

95th percentile per-packet one-way delay: 50.989 ms

Loss rate: 0.00%

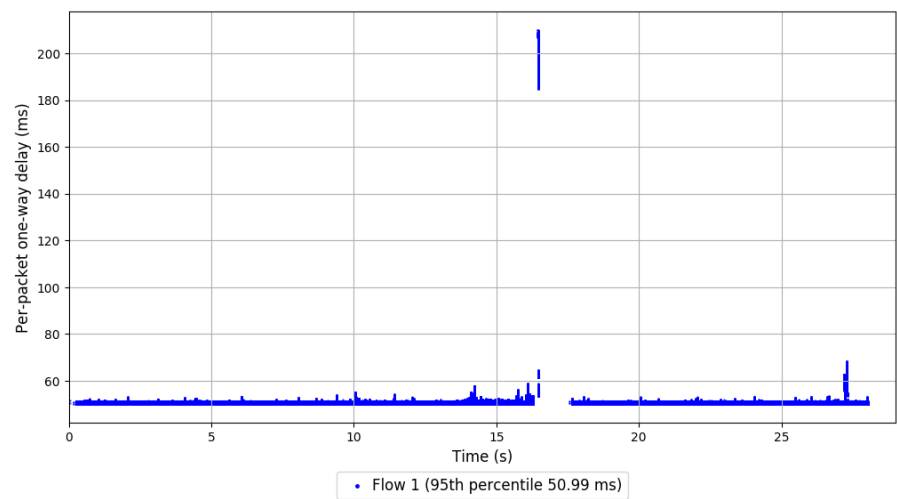
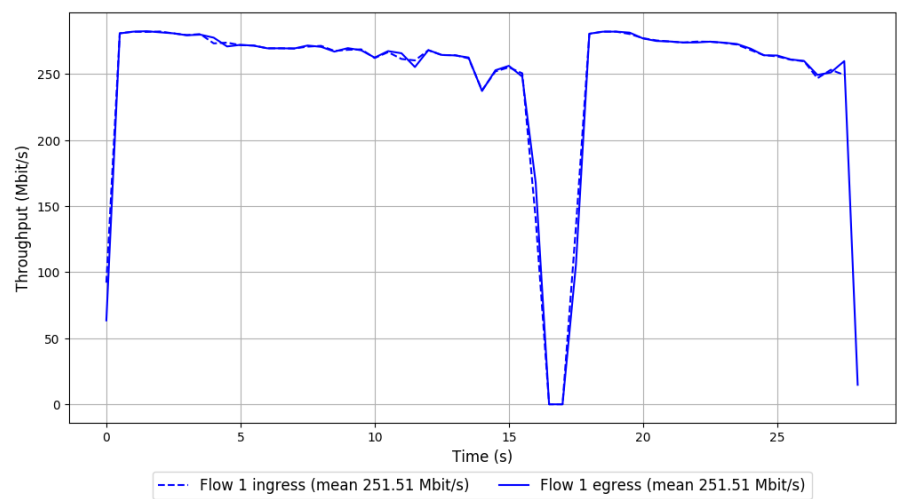
-- Flow 1:

Average throughput: 251.51 Mbit/s

95th percentile per-packet one-way delay: 50.989 ms

Loss rate: 0.00%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 05:23:37

End at: 2017-09-18 05:24:07

# Below is generated by plot.py at 2017-09-18 08:12:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 148.93 Mbit/s

95th percentile per-packet one-way delay: 50.966 ms

Loss rate: 0.00%

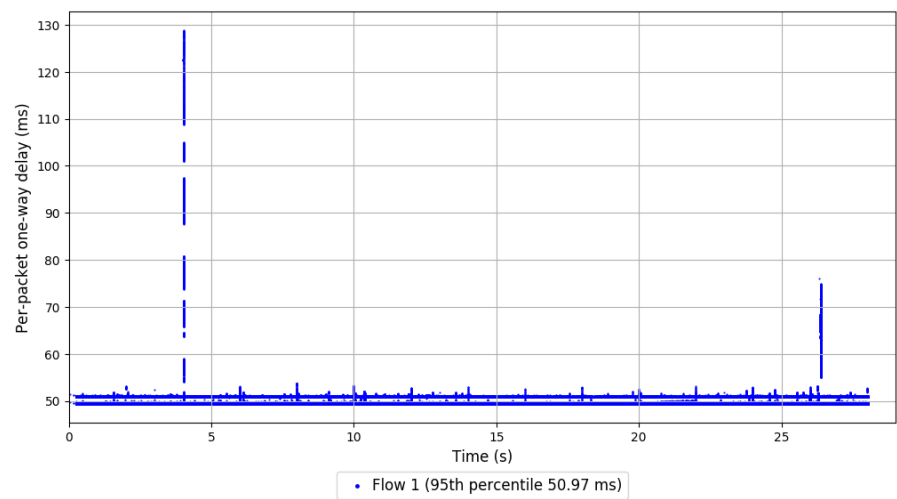
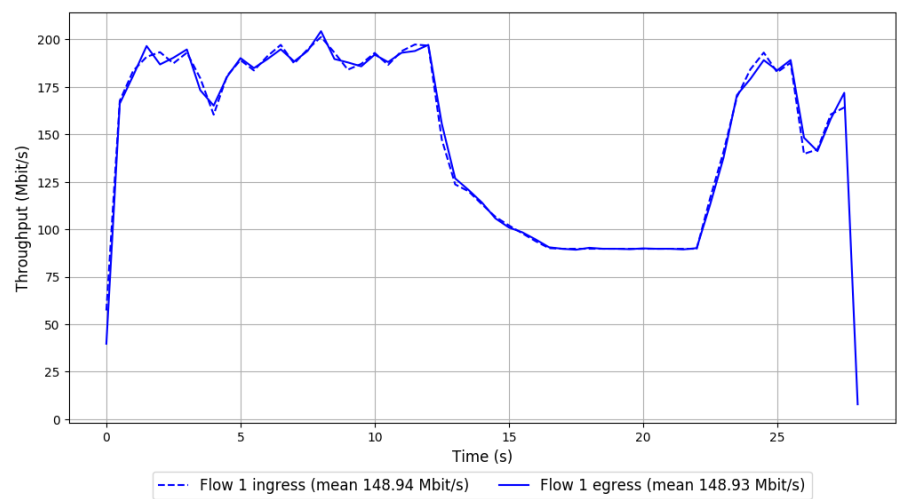
-- Flow 1:

Average throughput: 148.93 Mbit/s

95th percentile per-packet one-way delay: 50.966 ms

Loss rate: 0.00%

Run 6: Report of TaoVA-100x — Data Link



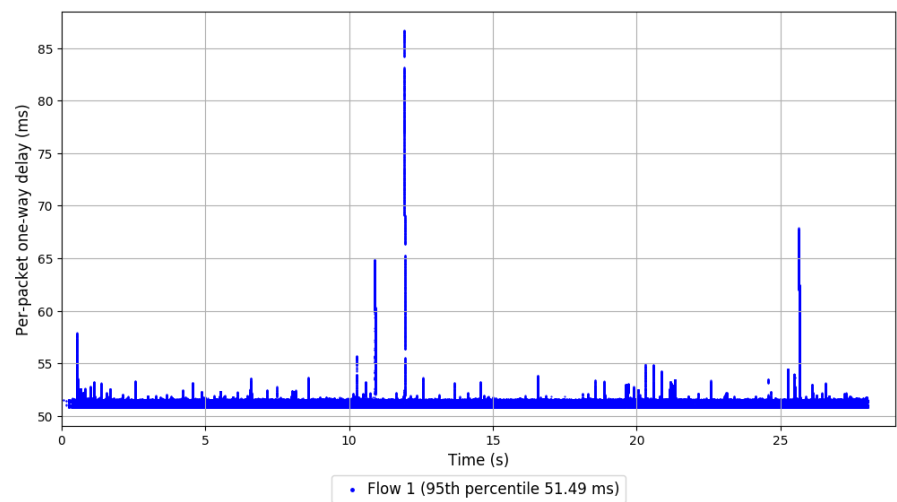
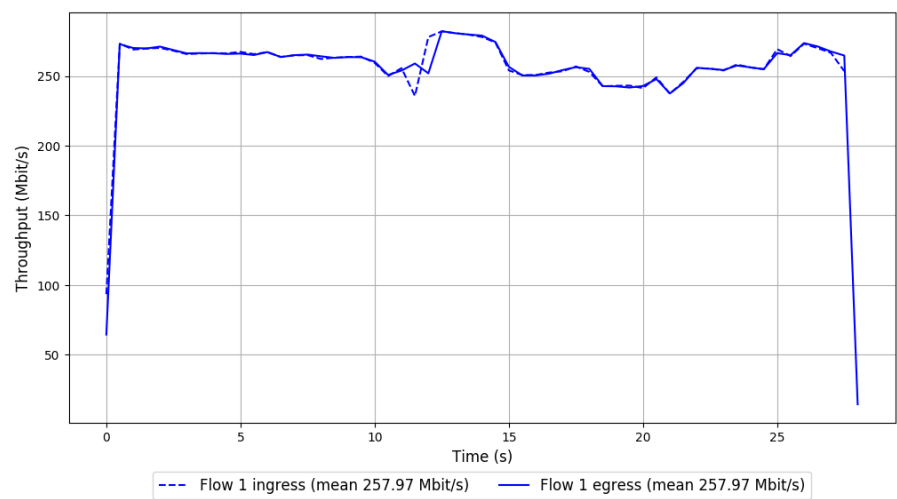
```
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 05:34:55
End at: 2017-09-18 05:35:25

# Below is generated by plot.py at 2017-09-18 08:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.97 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 257.97 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.00%
```



Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-18 05:46:06

End at: 2017-09-18 05:46:36

# Below is generated by plot.py at 2017-09-18 08:17:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 249.88 Mbit/s

95th percentile per-packet one-way delay: 50.574 ms

Loss rate: 0.00%

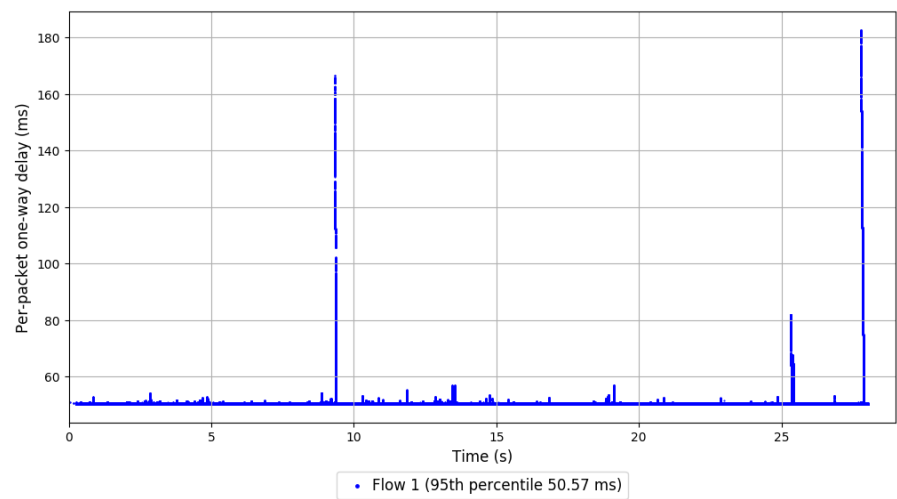
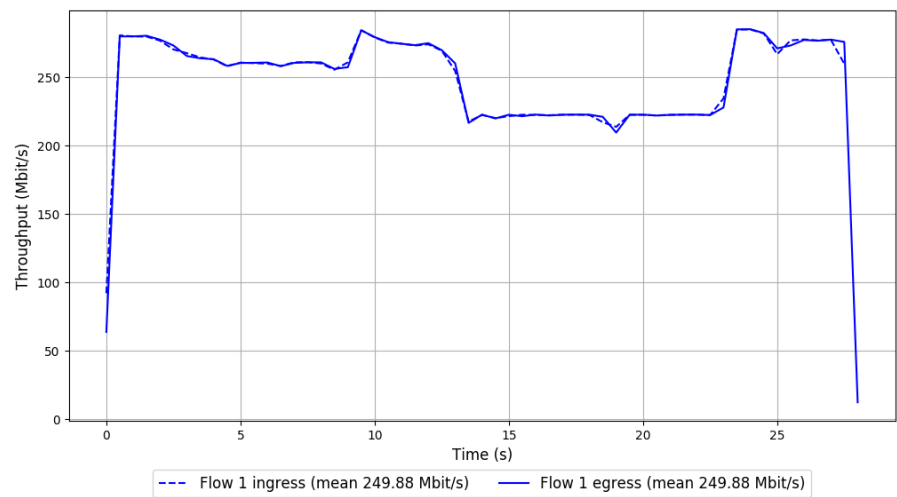
-- Flow 1:

Average throughput: 249.88 Mbit/s

95th percentile per-packet one-way delay: 50.574 ms

Loss rate: 0.00%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 05:57:25

End at: 2017-09-18 05:57:55

# Below is generated by plot.py at 2017-09-18 08:18:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.16 Mbit/s

95th percentile per-packet one-way delay: 50.673 ms

Loss rate: 0.00%

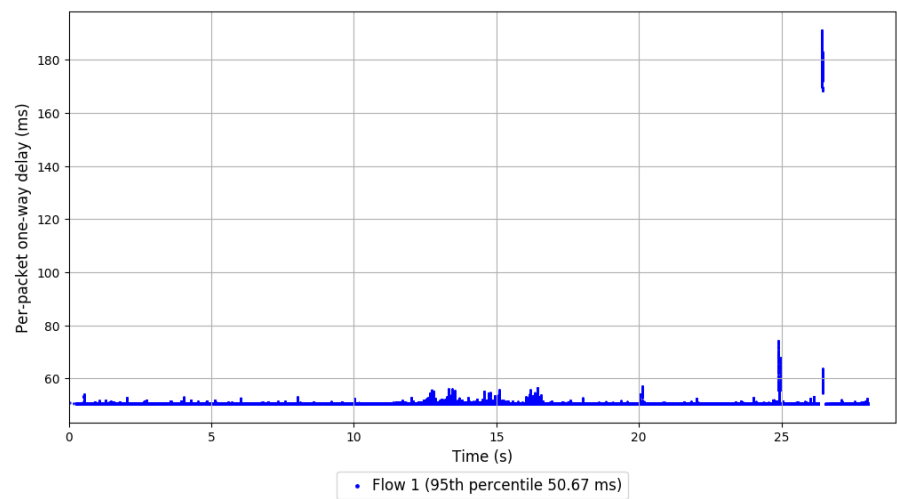
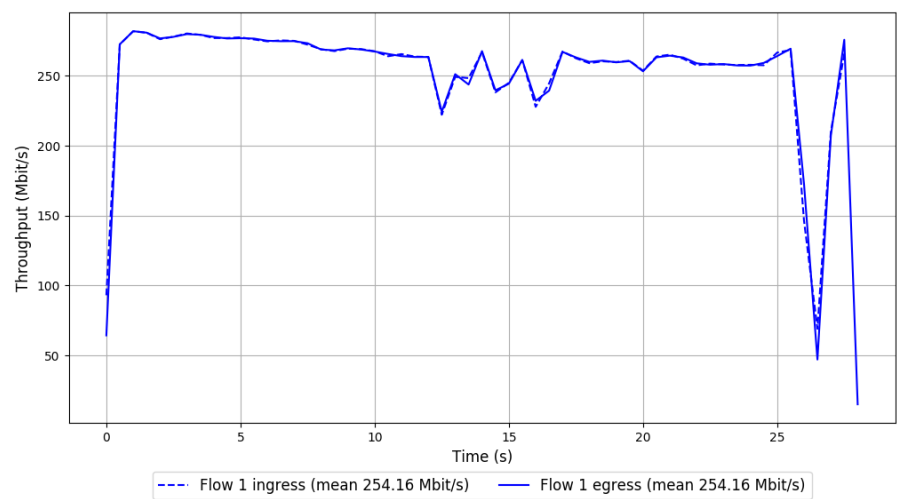
-- Flow 1:

Average throughput: 254.16 Mbit/s

95th percentile per-packet one-way delay: 50.673 ms

Loss rate: 0.00%

Run 9: Report of TaoVA-100x — Data Link

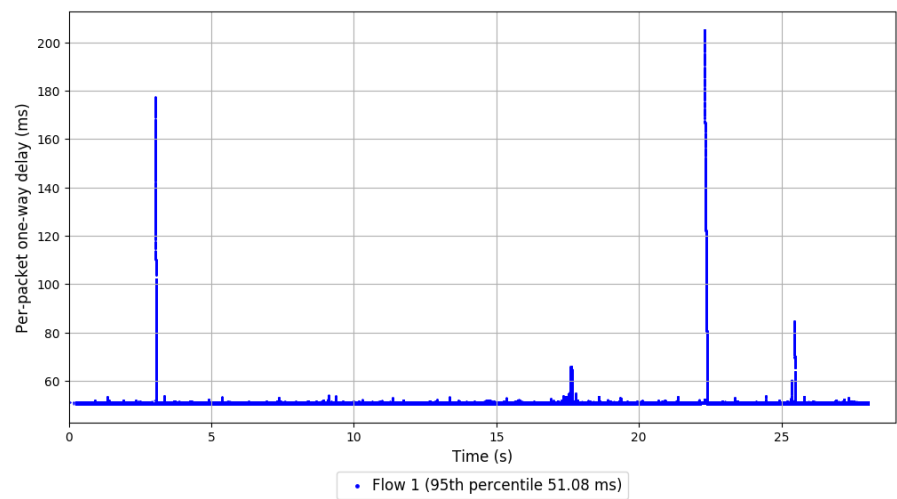
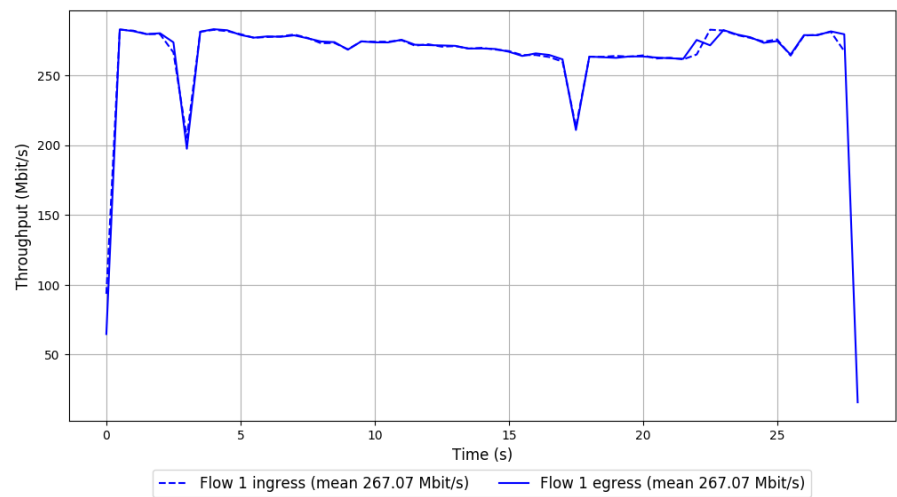


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-18 06:08:42
End at: 2017-09-18 06:09:12

# Below is generated by plot.py at 2017-09-18 08:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.07 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.07 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.00%
```

Run 10: Report of TaoVA-100x — Data Link



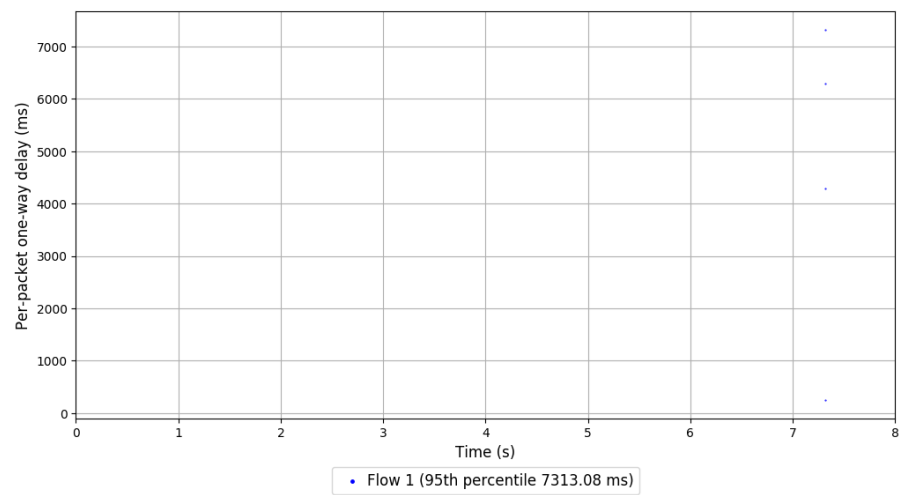
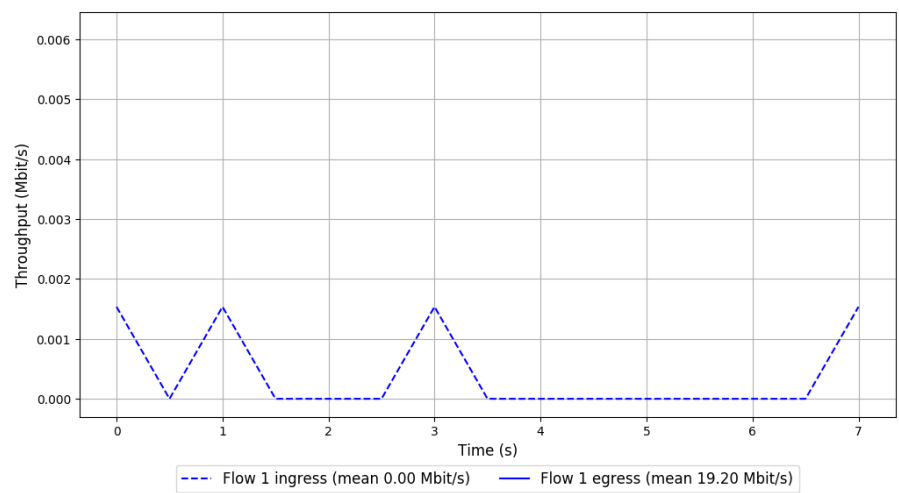
Run 1: Statistics of TCP Vegas

Start at: 2017-09-18 04:31:21

End at: 2017-09-18 04:31:51



Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 04:42:34

End at: 2017-09-18 04:43:04

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 51.873 ms

Loss rate: 0.00%

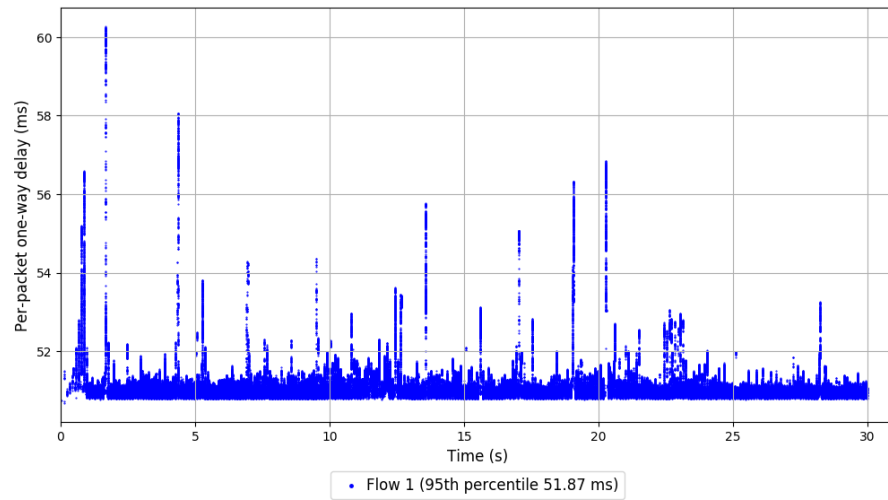
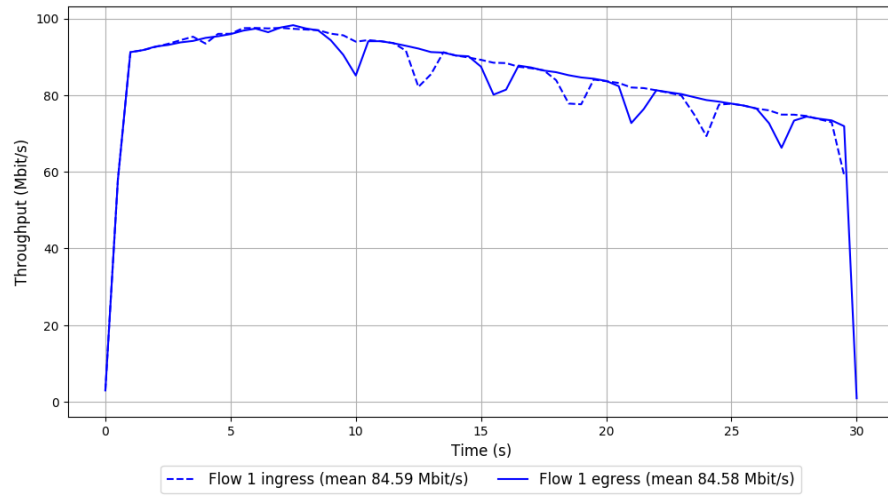
-- Flow 1:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 51.873 ms

Loss rate: 0.00%

## Run 2: Report of TCP Vegas — Data Link

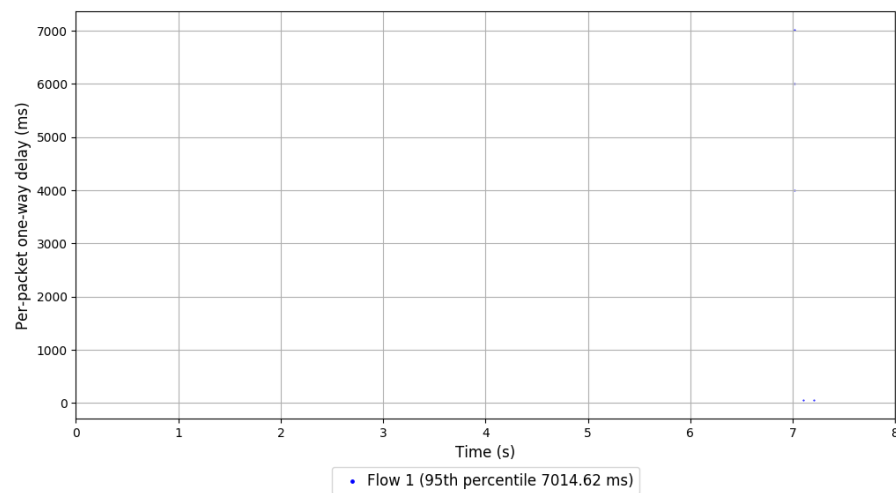
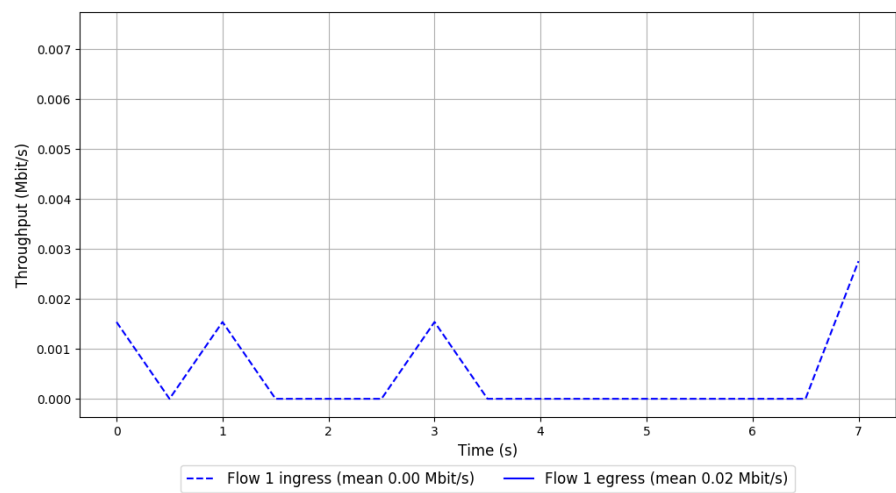


Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 04:53:36

End at: 2017-09-18 04:54:06

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 05:04:50

End at: 2017-09-18 05:05:20

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.00%

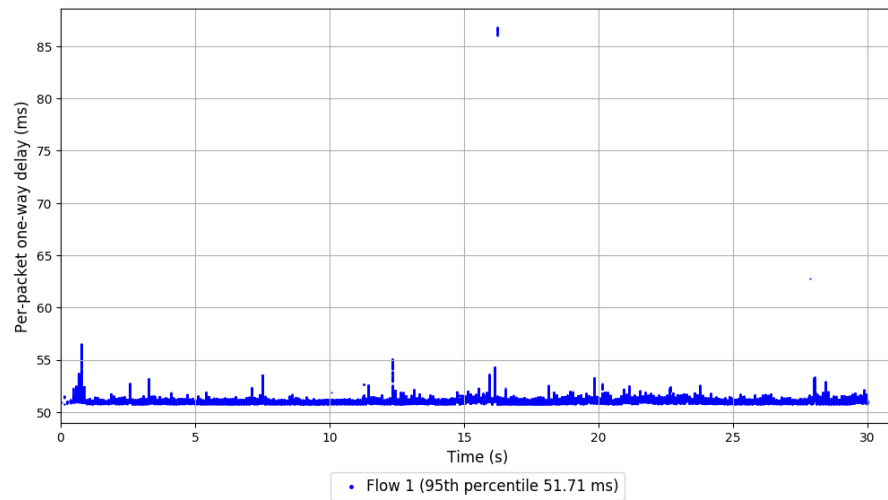
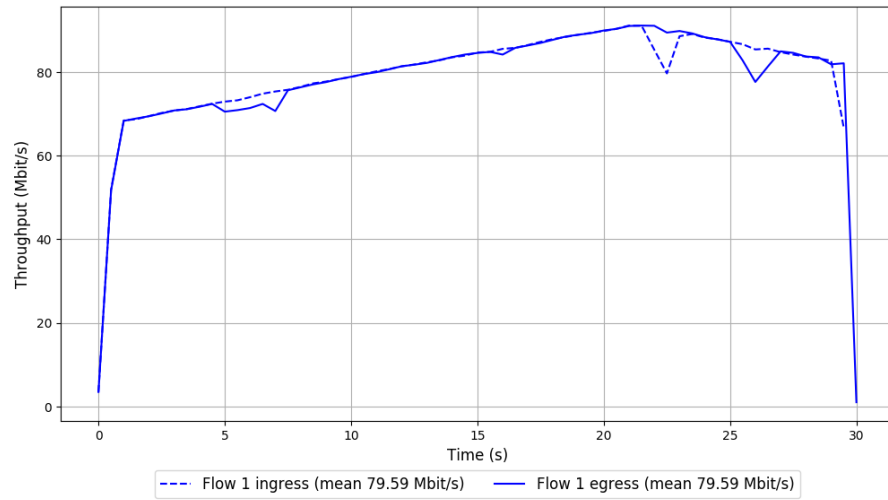
-- Flow 1:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.00%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-18 05:15:56

End at: 2017-09-18 05:16:26

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 55.150 ms

Loss rate: 0.01%

-- Flow 1:

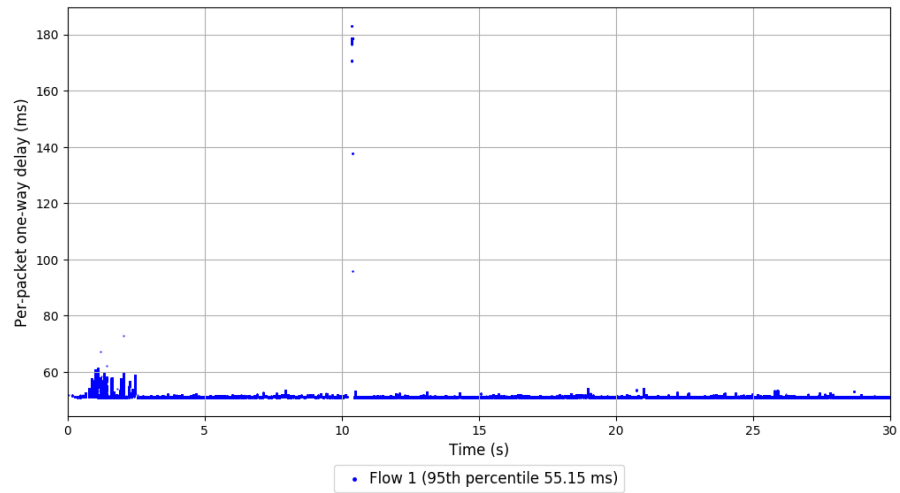
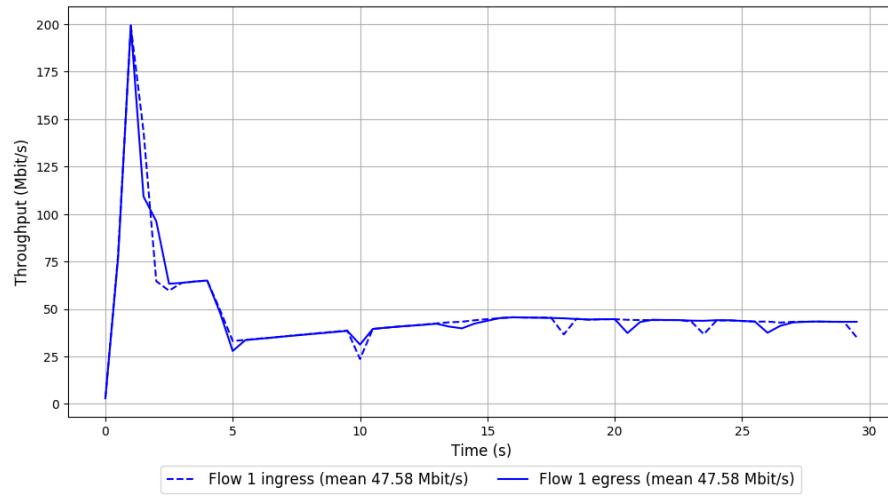
Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 55.150 ms

Loss rate: 0.01%



## Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 05:27:07

End at: 2017-09-18 05:27:38

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.57 Mbit/s

95th percentile per-packet one-way delay: 51.915 ms

Loss rate: 0.00%

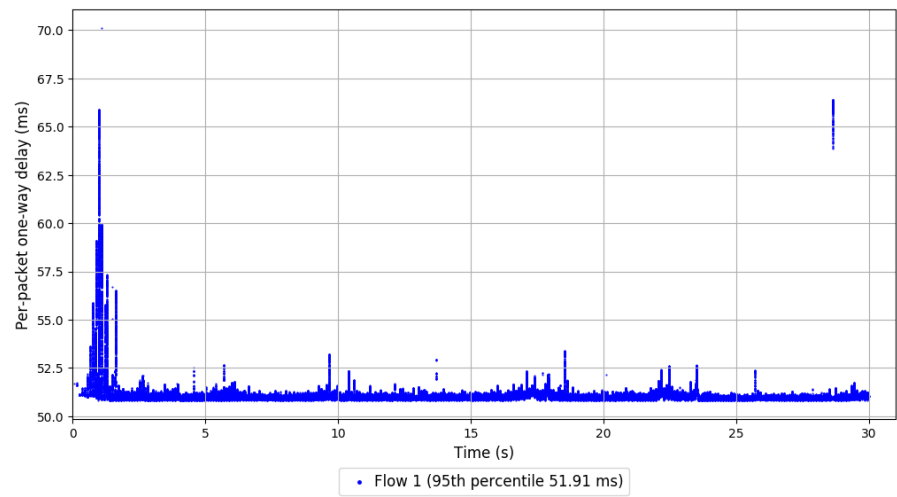
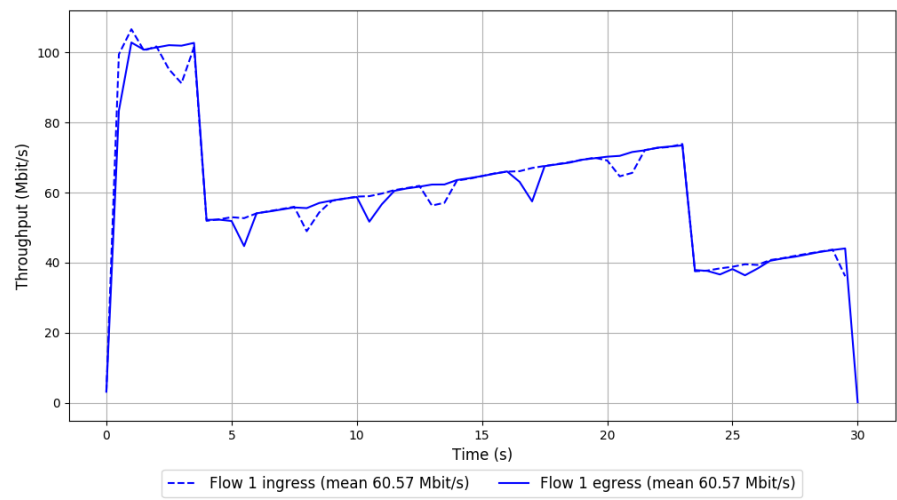
-- Flow 1:

Average throughput: 60.57 Mbit/s

95th percentile per-packet one-way delay: 51.915 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-18 05:38:26

End at: 2017-09-18 05:38:56

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 51.679 ms

Loss rate: 0.00%

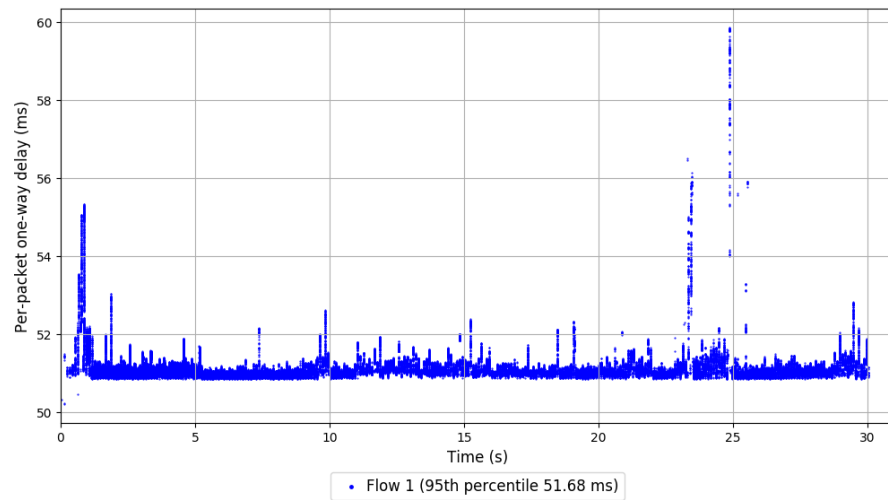
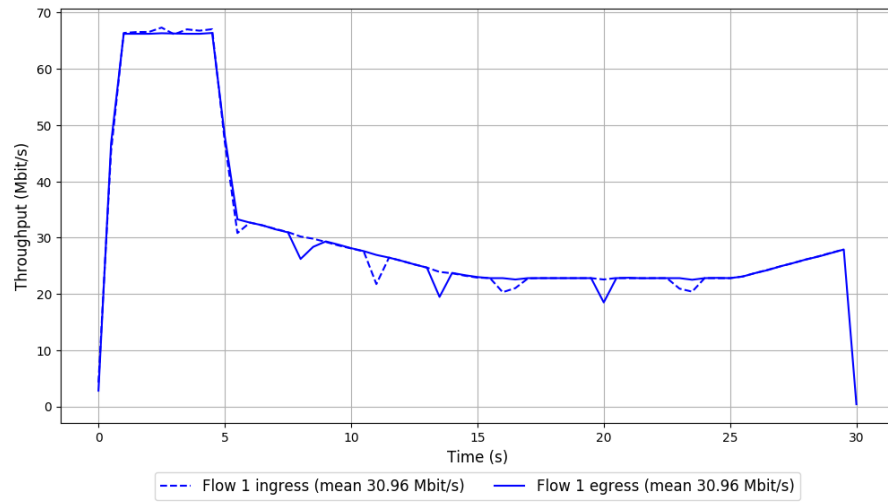
-- Flow 1:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 51.679 ms

Loss rate: 0.00%

### Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-18 05:49:41

End at: 2017-09-18 05:50:11

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.62 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.00%

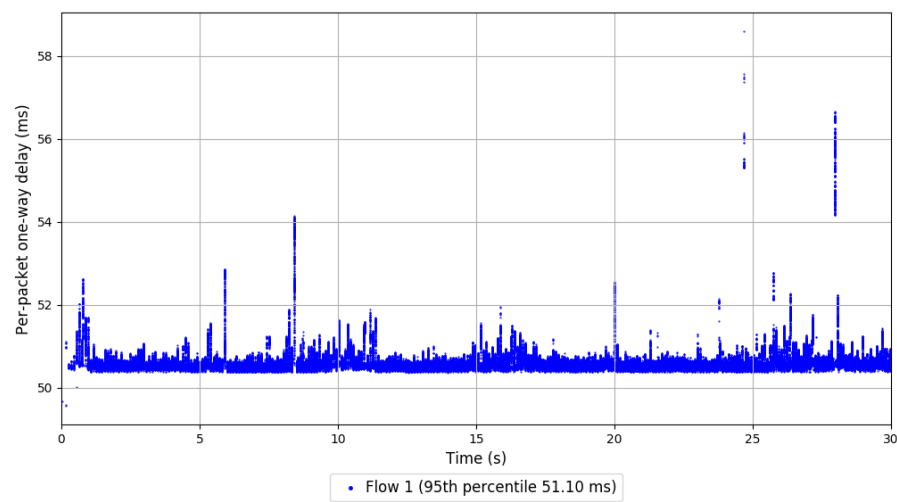
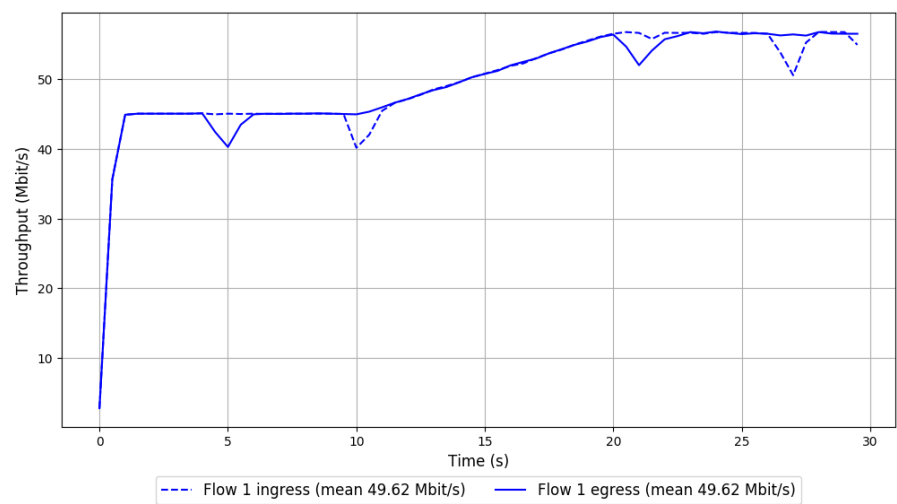
-- Flow 1:

Average throughput: 49.62 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 06:01:00

End at: 2017-09-18 06:01:30

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 51.294 ms

Loss rate: 0.00%

-- Flow 1:

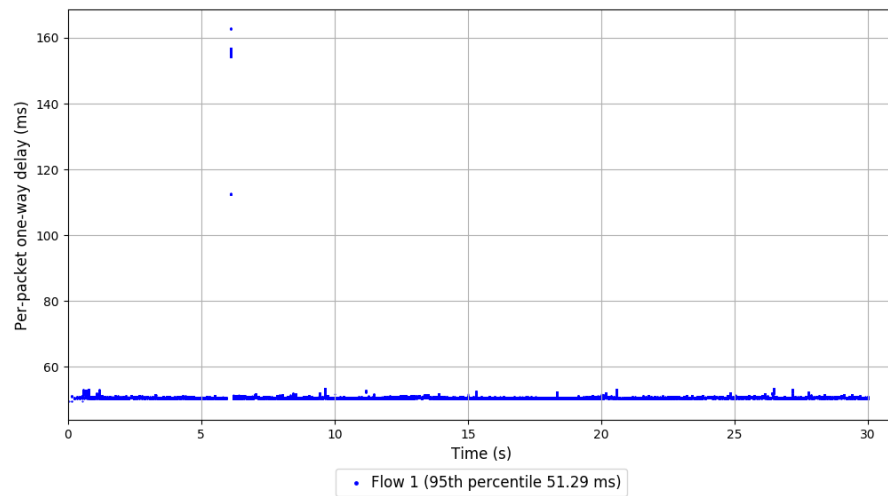
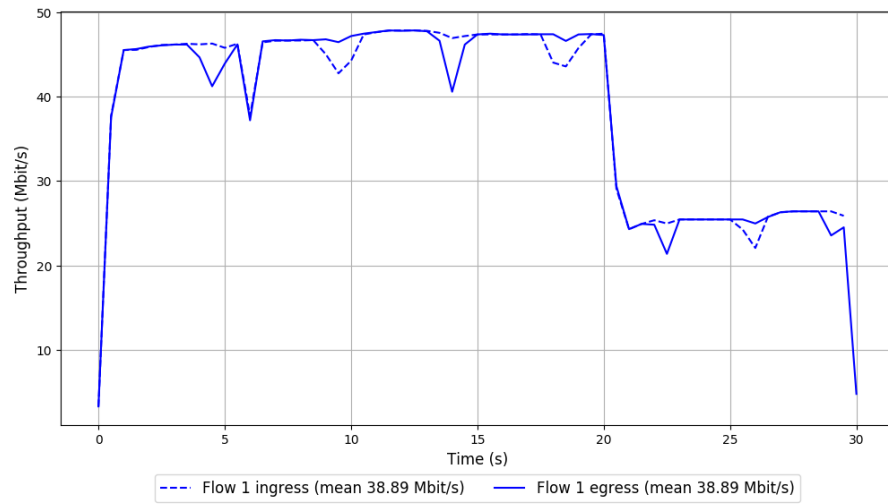
Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 51.294 ms

Loss rate: 0.00%



### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-18 06:12:04

End at: 2017-09-18 06:12:34

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 51.525 ms

Loss rate: 0.00%

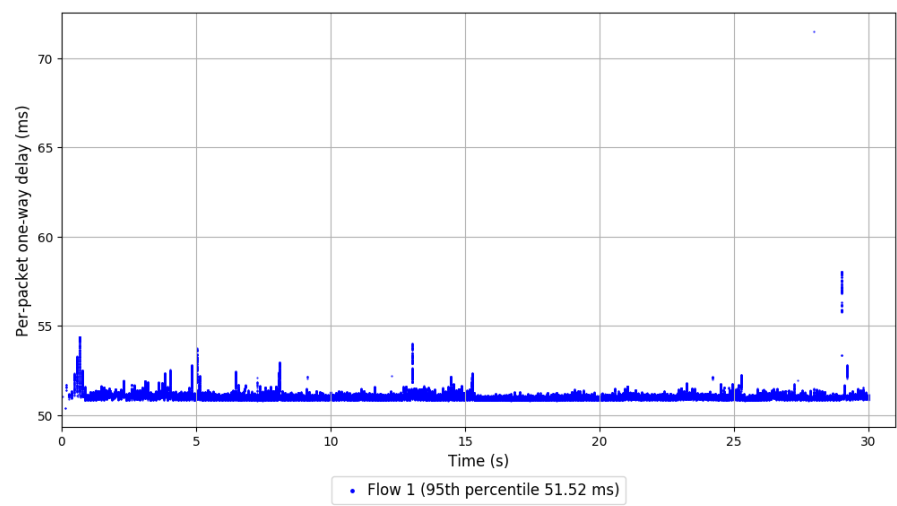
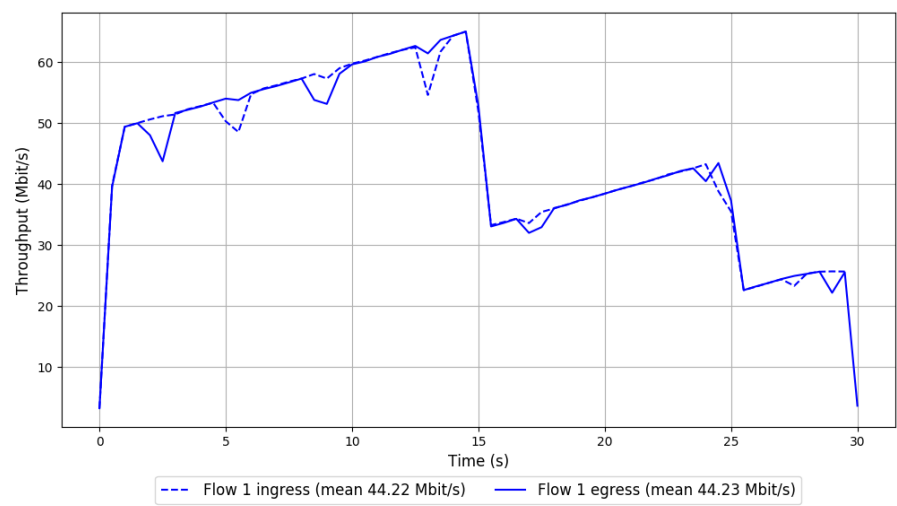
-- Flow 1:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 51.525 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-18 04:30:44

End at: 2017-09-18 04:31:14

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2017-09-18 04:41:39

End at: 2017-09-18 04:42:10

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 279.84 Mbit/s

95th percentile per-packet one-way delay: 125.913 ms

Loss rate: 0.00%

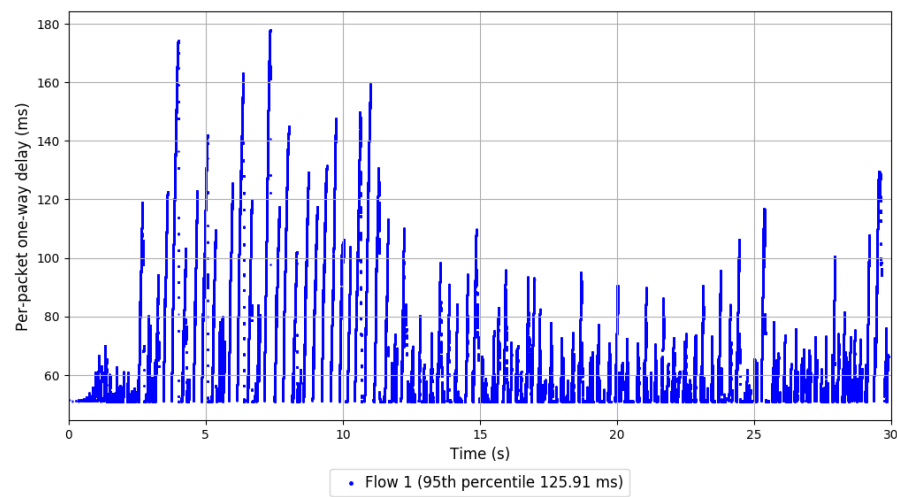
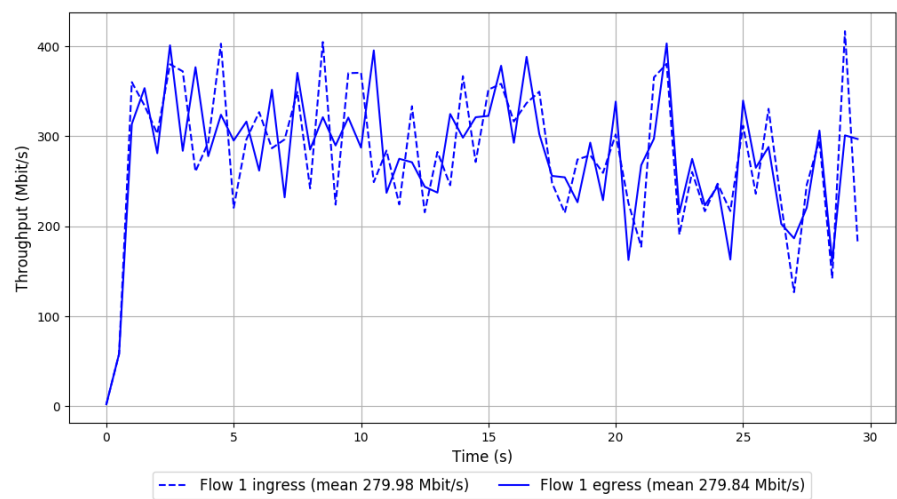
-- Flow 1:

Average throughput: 279.84 Mbit/s

95th percentile per-packet one-way delay: 125.913 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-18 04:53:00

End at: 2017-09-18 04:53:30



Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Verus

Start at: 2017-09-18 05:03:58

End at: 2017-09-18 05:04:28

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 269.94 Mbit/s

95th percentile per-packet one-way delay: 75.227 ms

Loss rate: 0.06%

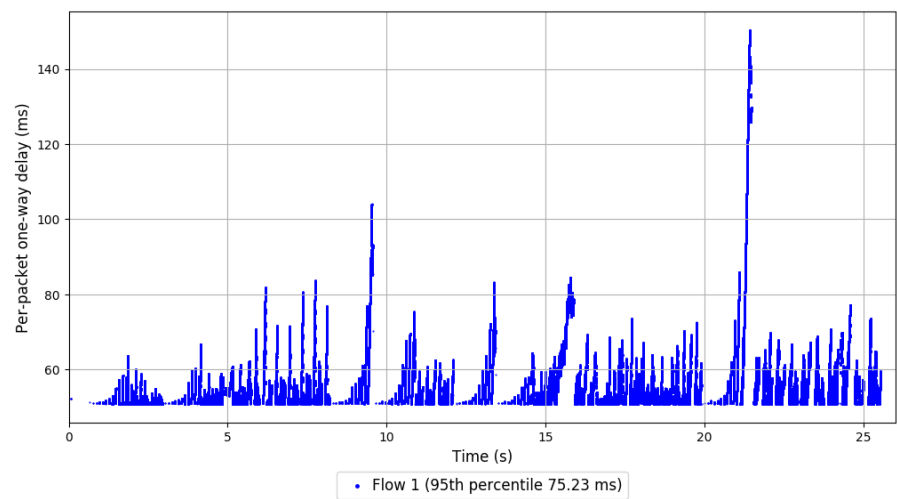
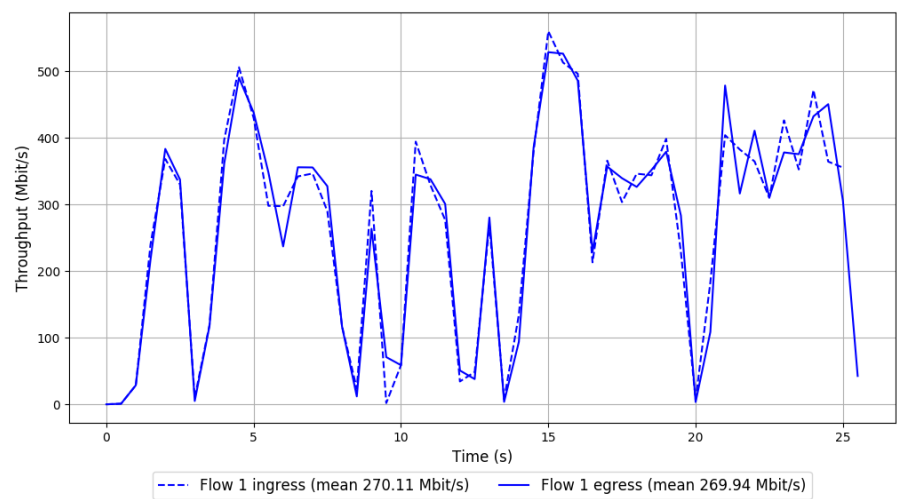
-- Flow 1:

Average throughput: 269.94 Mbit/s

95th percentile per-packet one-way delay: 75.227 ms

Loss rate: 0.06%

Run 4: Report of Verus — Data Link

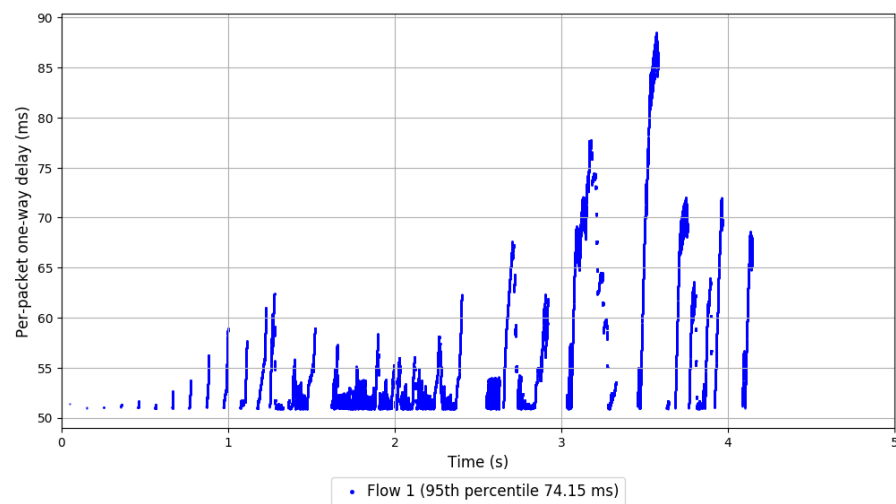
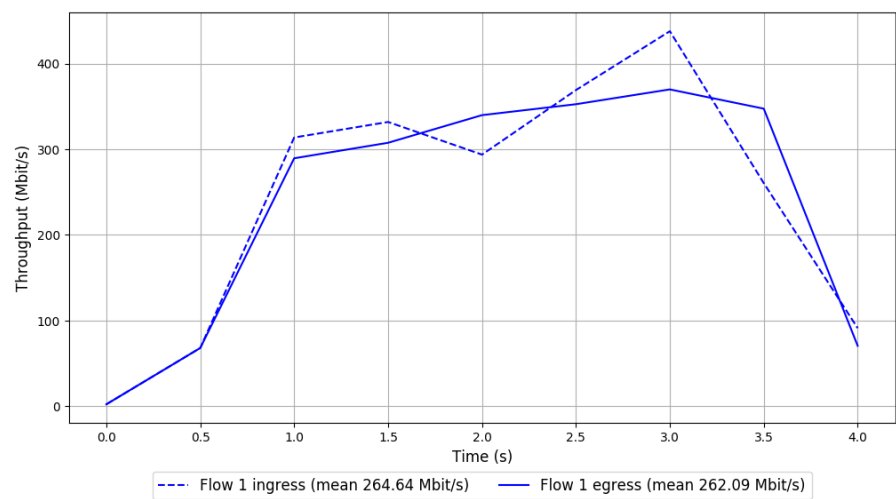


Run 5: Statistics of Verus

Start at: 2017-09-18 05:15:16

End at: 2017-09-18 05:15:46

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-18 05:26:11

End at: 2017-09-18 05:26:41

# Below is generated by plot.py at 2017-09-18 08:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 297.14 Mbit/s

95th percentile per-packet one-way delay: 152.954 ms

Loss rate: 0.32%

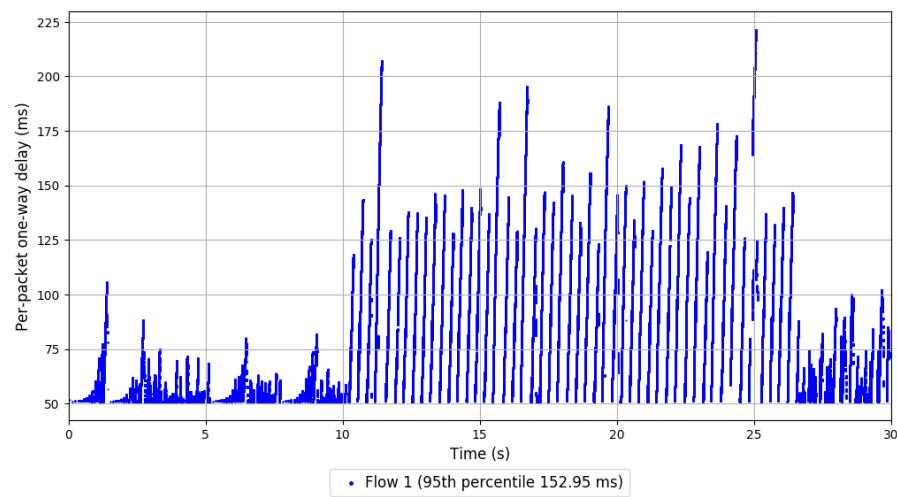
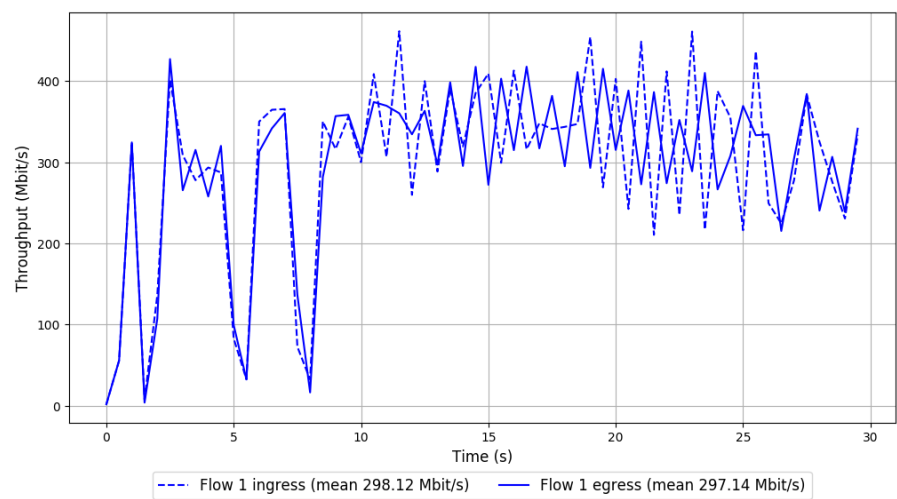
-- Flow 1:

Average throughput: 297.14 Mbit/s

95th percentile per-packet one-way delay: 152.954 ms

Loss rate: 0.32%

Run 6: Report of Verus — Data Link



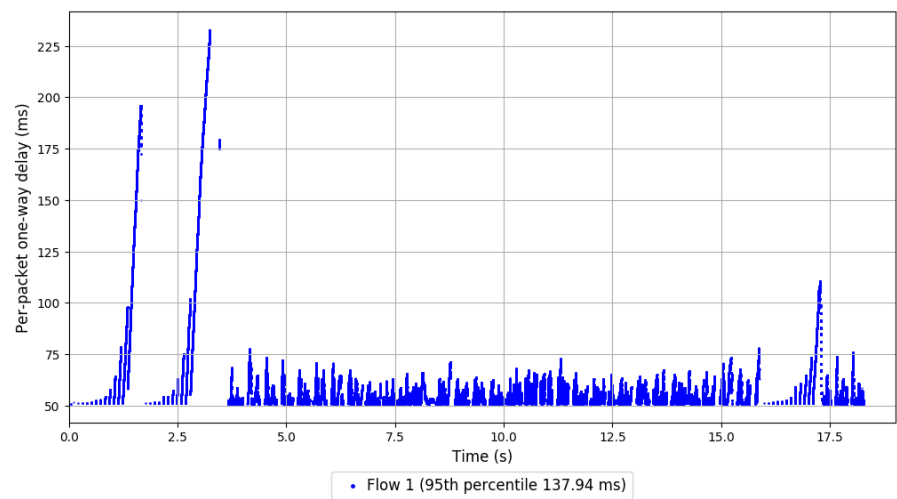
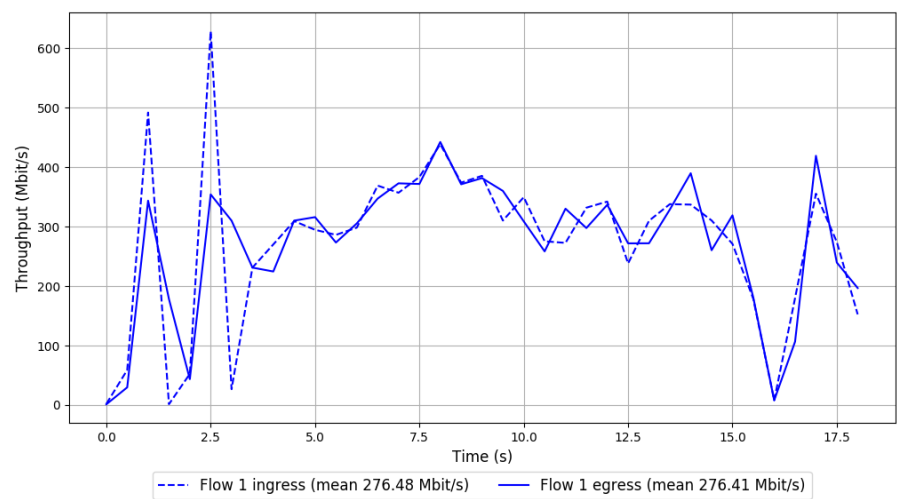
Run 7: Statistics of Verus

Start at: 2017-09-18 05:37:38

End at: 2017-09-18 05:38:08



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-18 05:48:48

End at: 2017-09-18 05:49:18

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 262.77 Mbit/s

95th percentile per-packet one-way delay: 100.862 ms

Loss rate: 0.00%

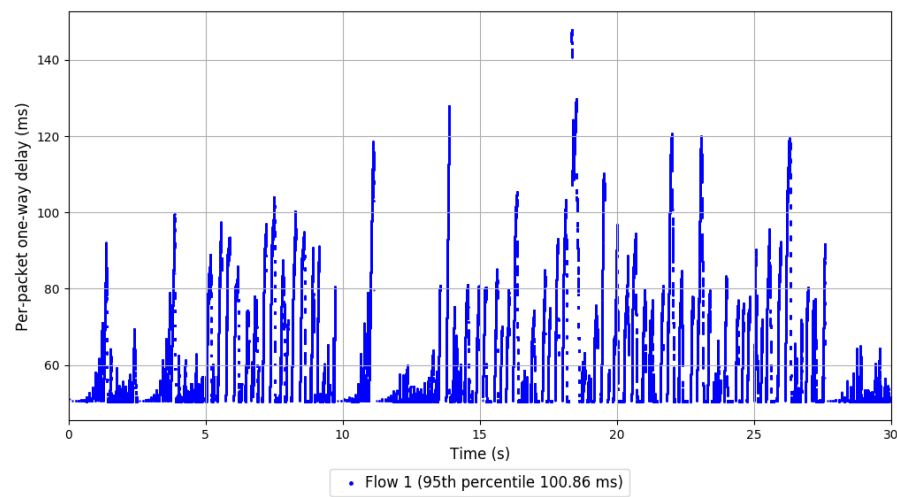
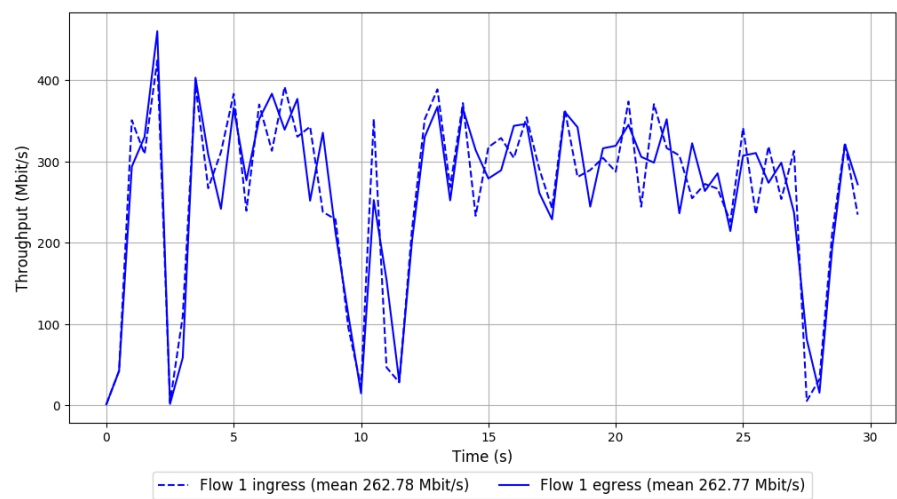
-- Flow 1:

Average throughput: 262.77 Mbit/s

95th percentile per-packet one-way delay: 100.862 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-18 06:00:08

End at: 2017-09-18 06:00:38

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.57 Mbit/s

95th percentile per-packet one-way delay: 83.880 ms

Loss rate: 0.64%

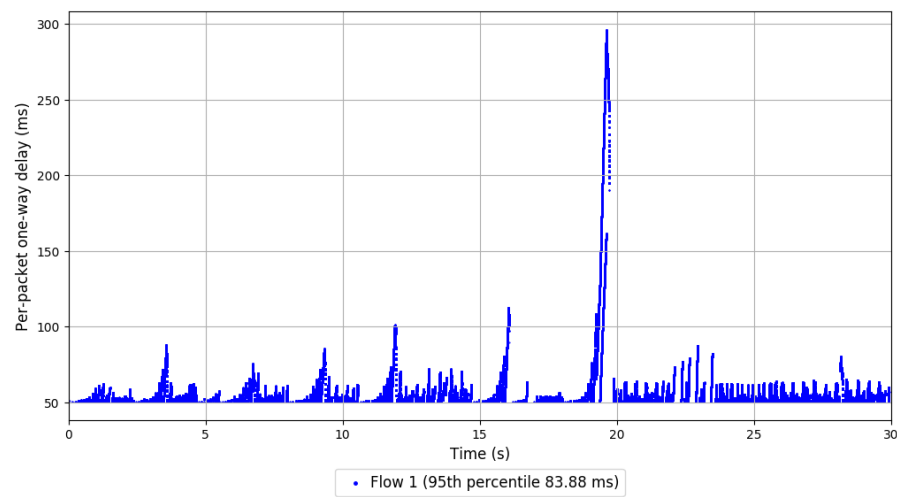
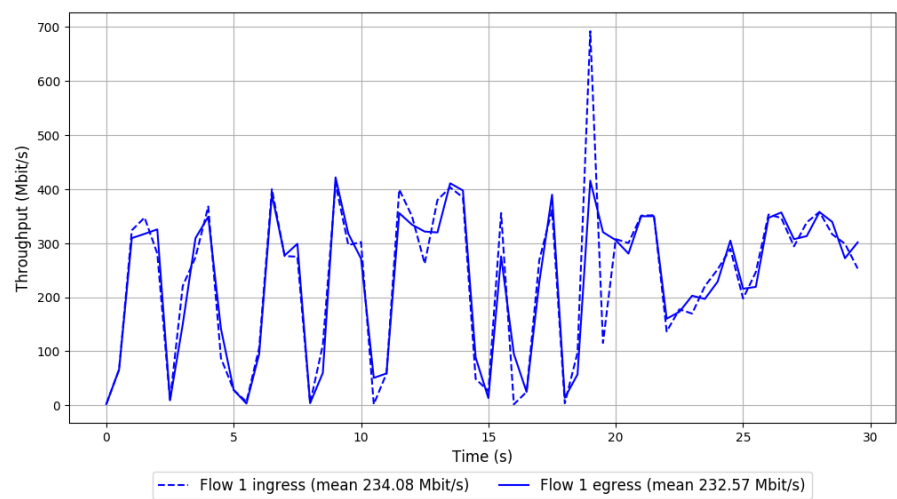
-- Flow 1:

Average throughput: 232.57 Mbit/s

95th percentile per-packet one-way delay: 83.880 ms

Loss rate: 0.64%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 06:11:28

End at: 2017-09-18 06:11:58

Run 10: Report of Verus — Data Link

Figure is missing

Figure is missing

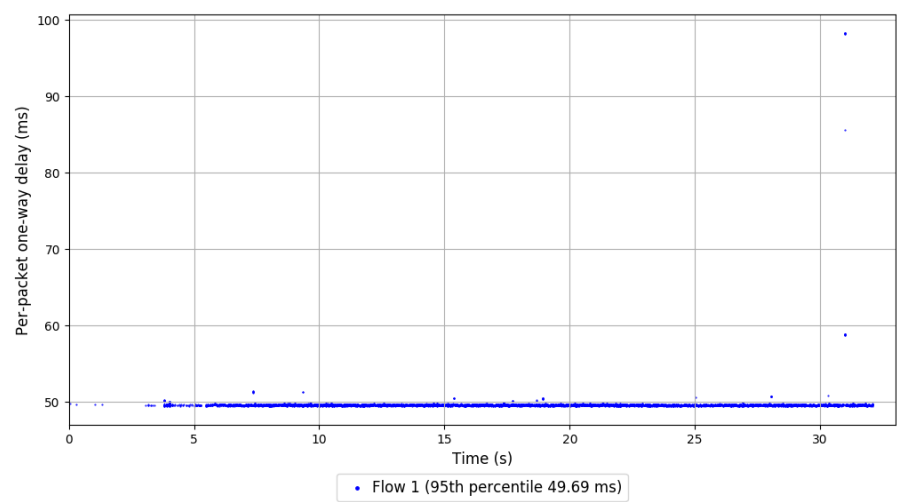
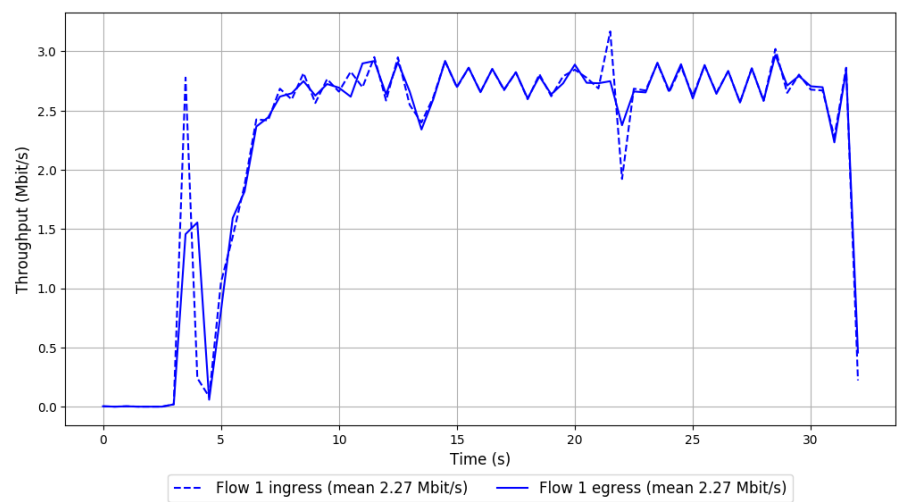
```
Run 1: Statistics of WebRTC media

Start at: 2017-09-18 04:25:28
End at: 2017-09-18 04:25:58

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.694 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.694 ms
Loss rate: 0.00%
```



Run 1: Report of WebRTC media — Data Link

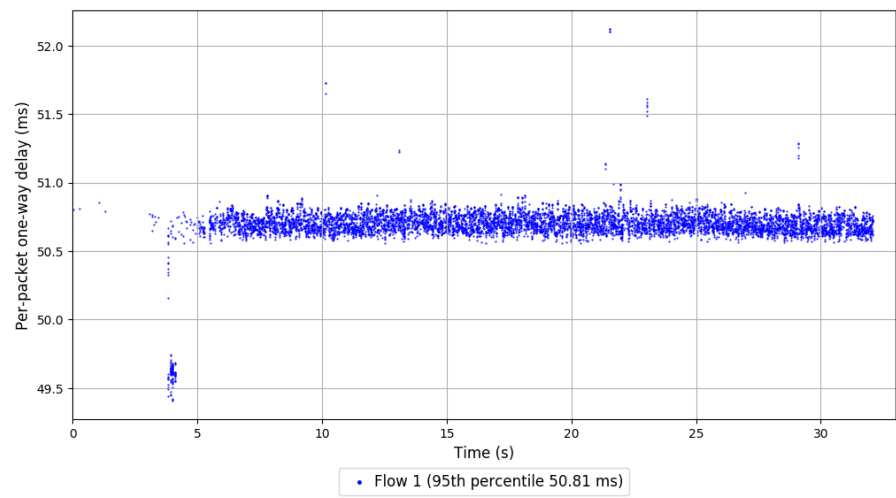
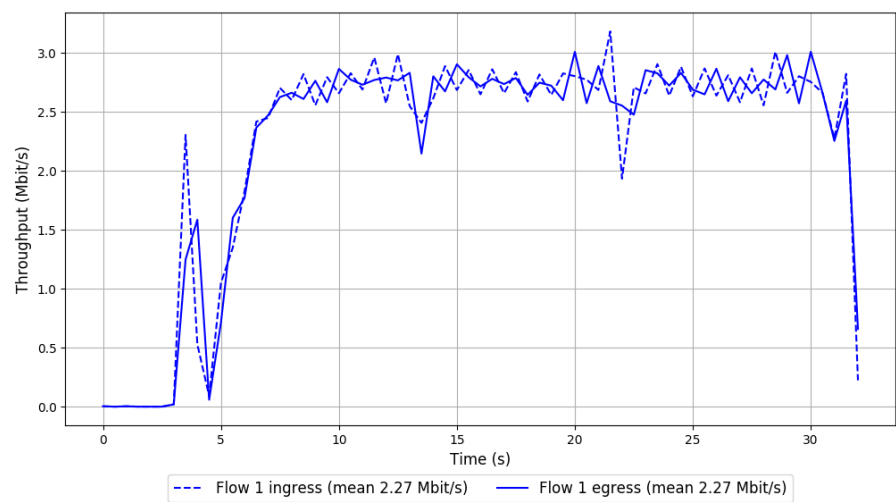


```
Run 2: Statistics of WebRTC media

Start at: 2017-09-18 04:36:30
End at: 2017-09-18 04:37:00

# Below is generated by plot.py at 2017-09-18 08:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.811 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-18 04:47:42

End at: 2017-09-18 04:48:12

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 49.592 ms

Loss rate: 0.00%

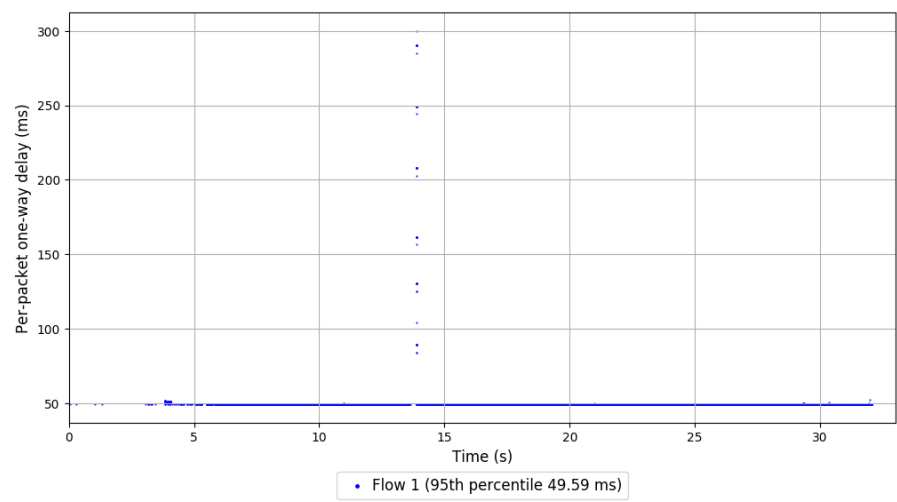
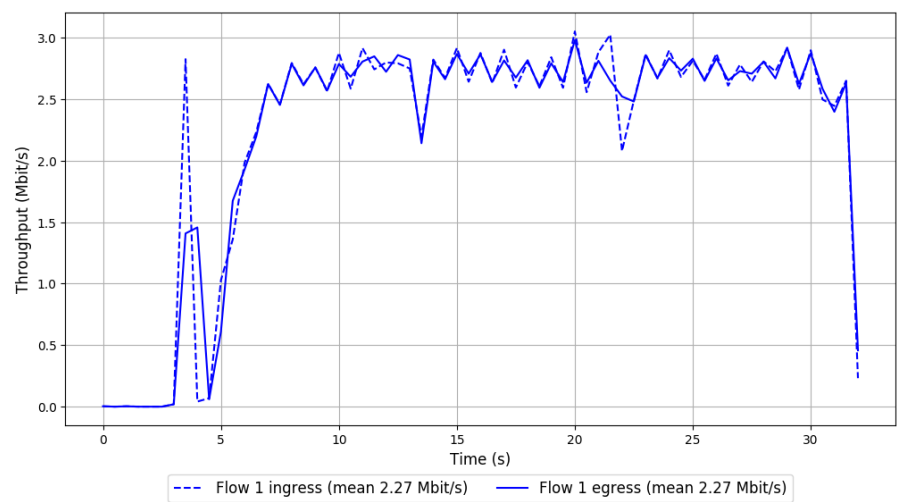
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 49.592 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-18 04:58:42

End at: 2017-09-18 04:59:12

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 48.824 ms

Loss rate: 0.00%

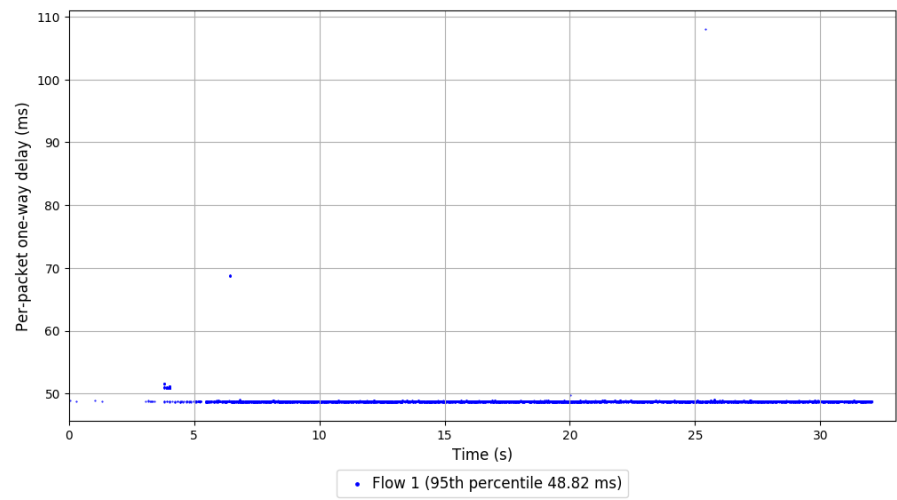
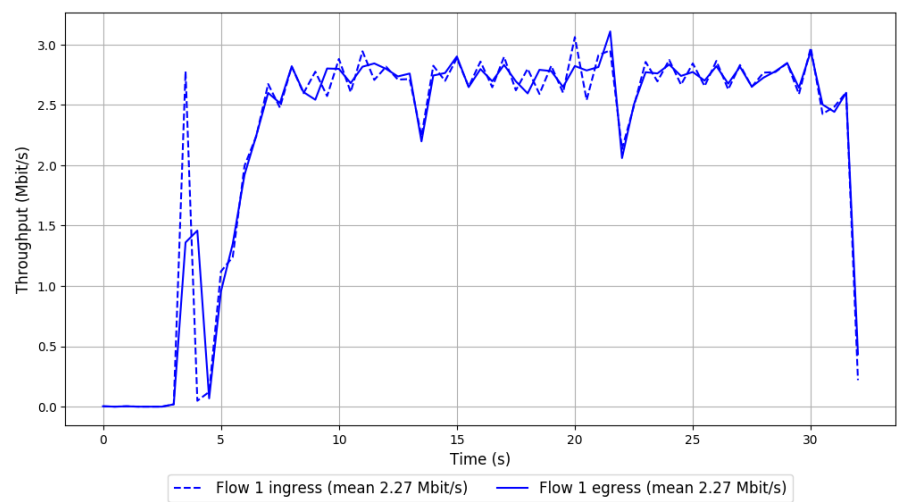
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 48.824 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-18 05:09:58

End at: 2017-09-18 05:10:28

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.00%

-- Flow 1:

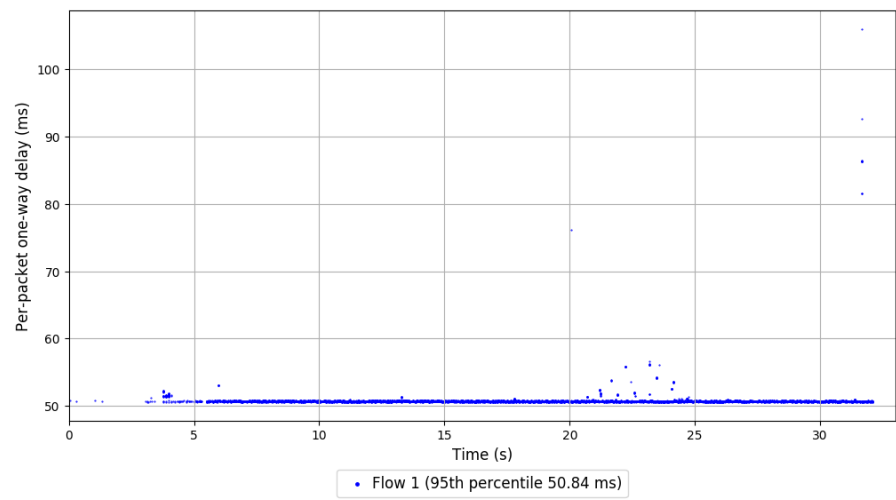
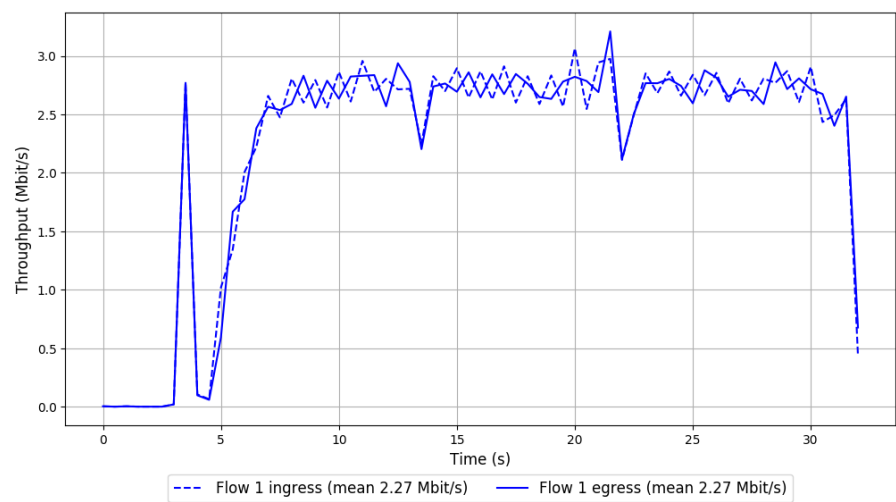
Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-18 05:21:03

End at: 2017-09-18 05:21:33

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 51.688 ms

Loss rate: 0.00%

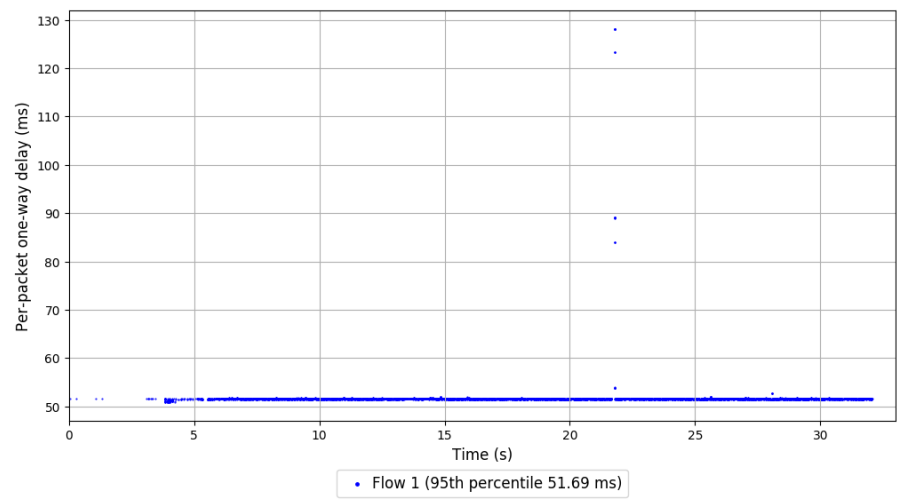
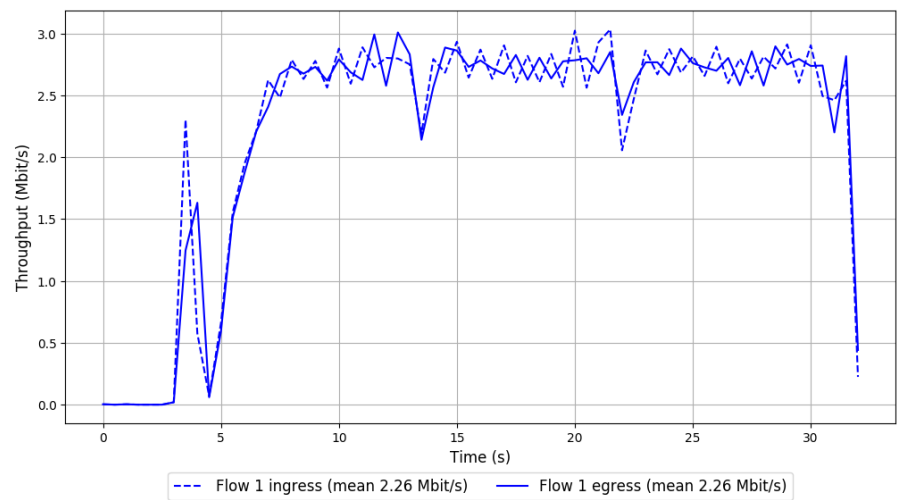
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 51.688 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-18 05:32:20

End at: 2017-09-18 05:32:50

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.00%

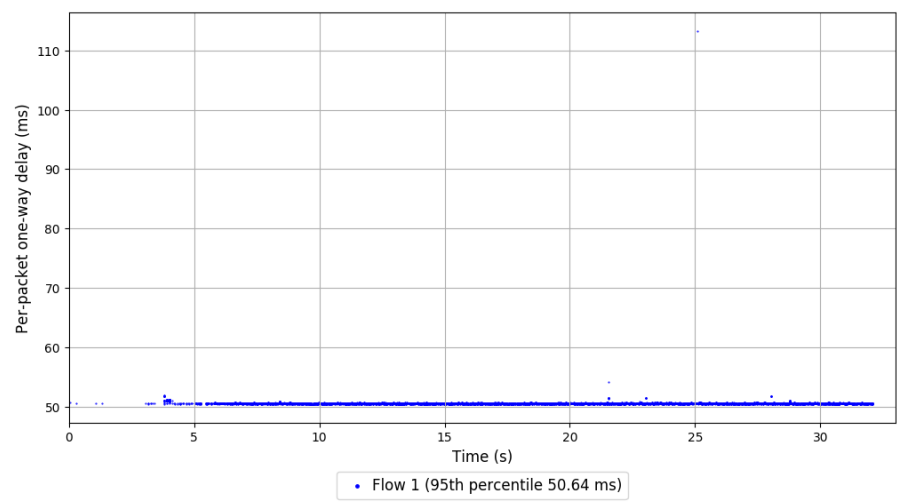
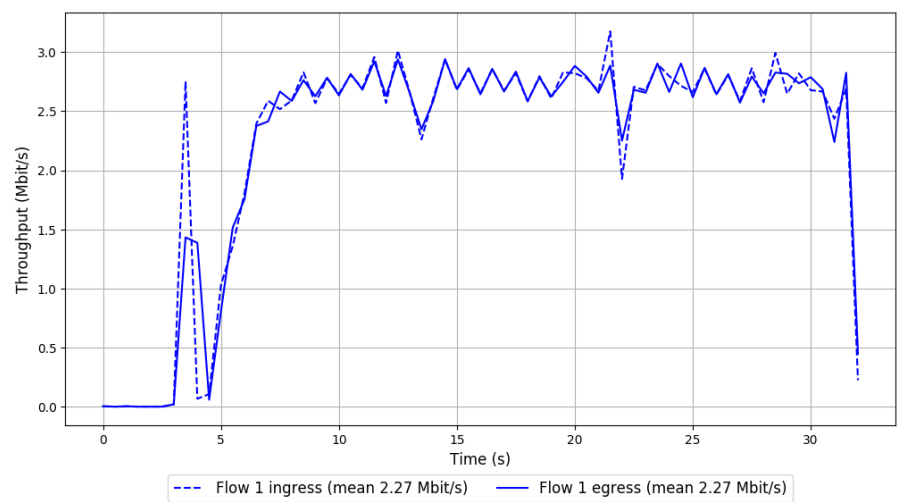
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-18 05:43:32

End at: 2017-09-18 05:44:02

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 51.729 ms

Loss rate: 0.00%

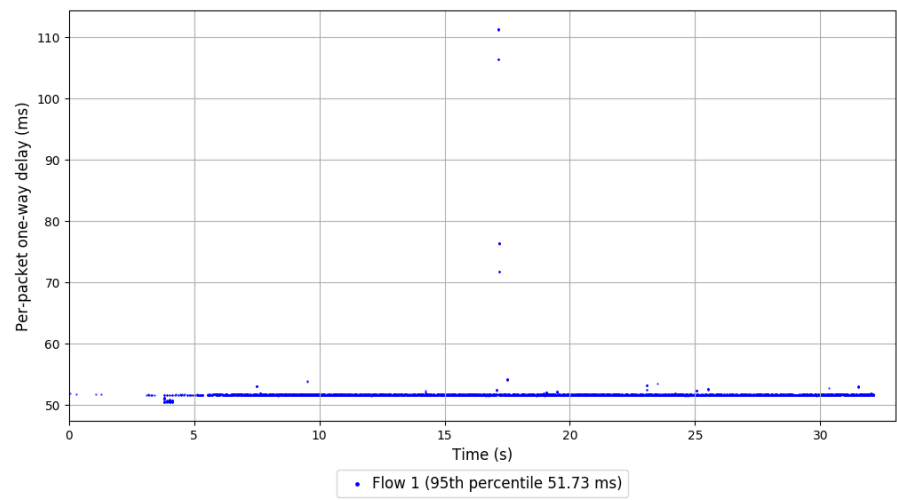
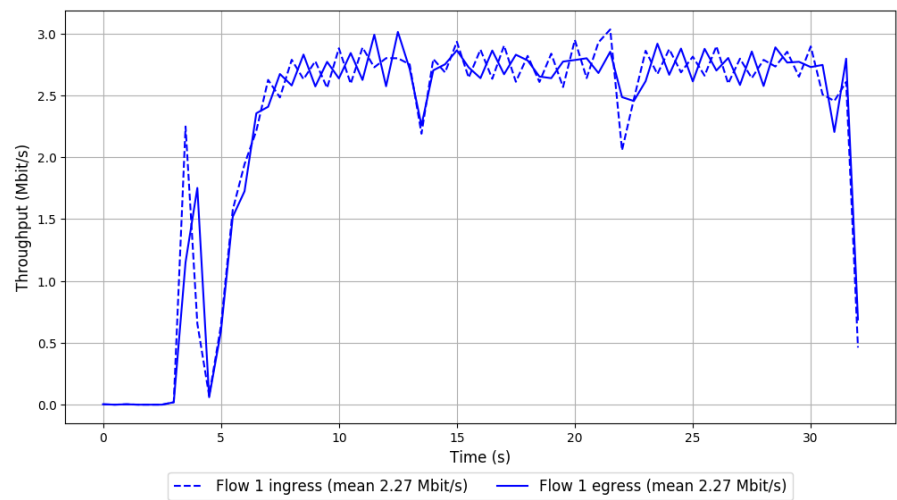
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 51.729 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-18 05:54:50

End at: 2017-09-18 05:55:20

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.00%

-- Flow 1:

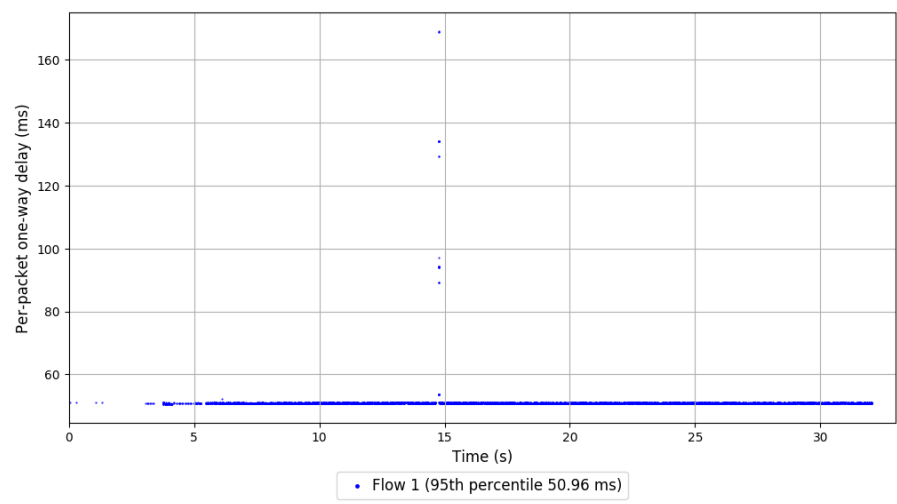
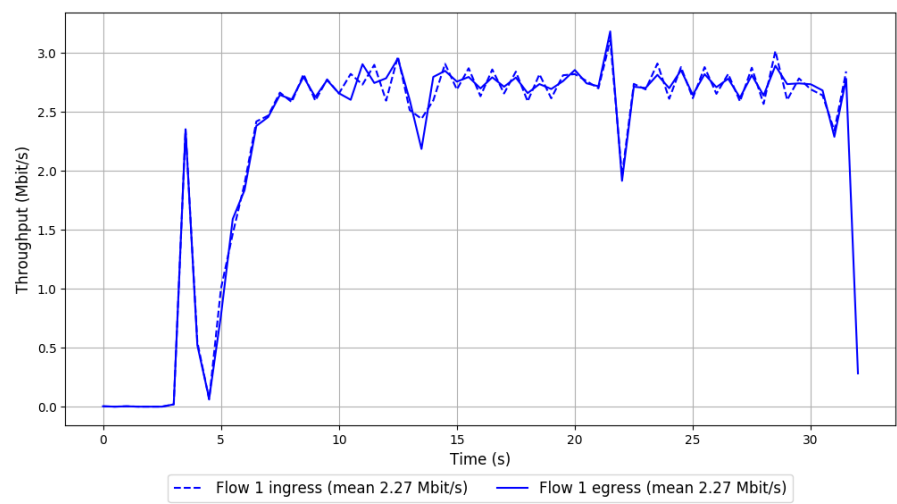
Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-18 06:06:07

End at: 2017-09-18 06:06:37

# Below is generated by plot.py at 2017-09-18 08:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.410 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.410 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

