

Pantheon Report

Generated at 2017-09-18 14:02:35 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

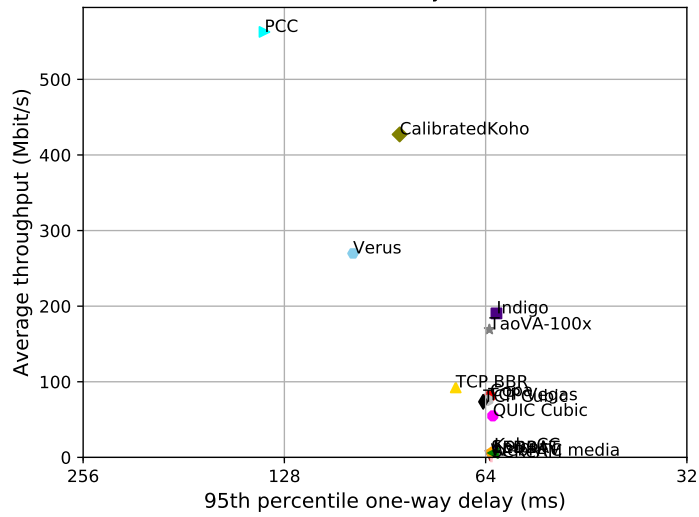
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

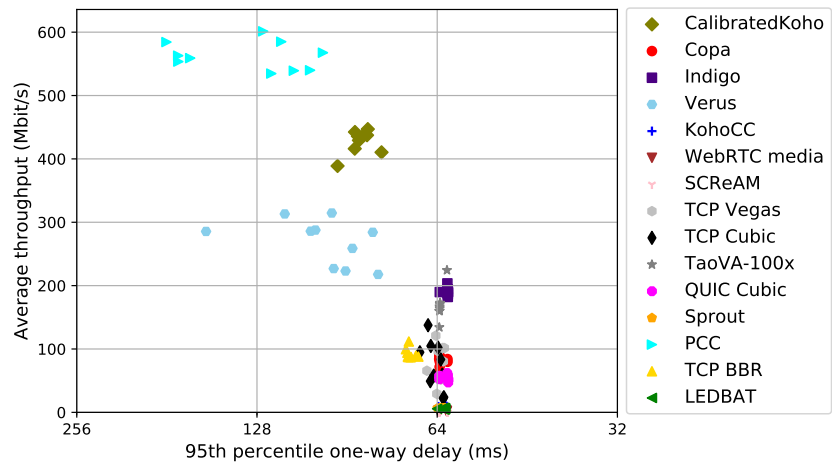
Git summary:

```
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme



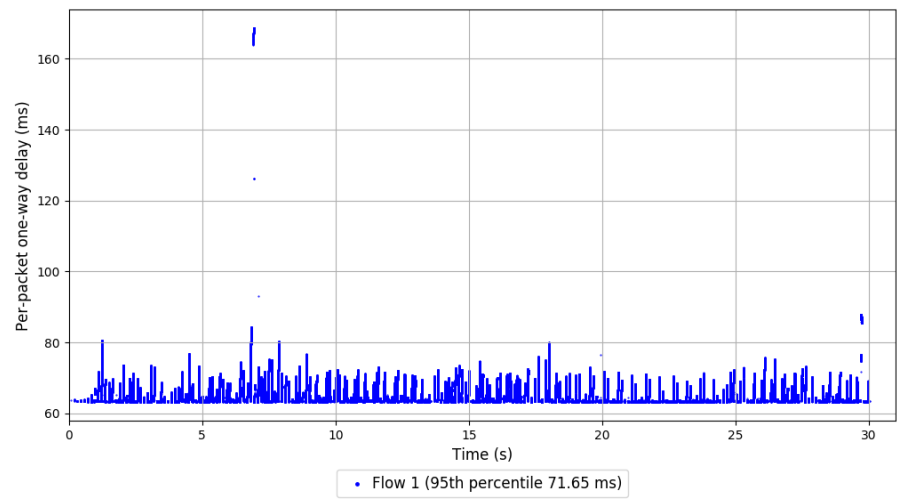
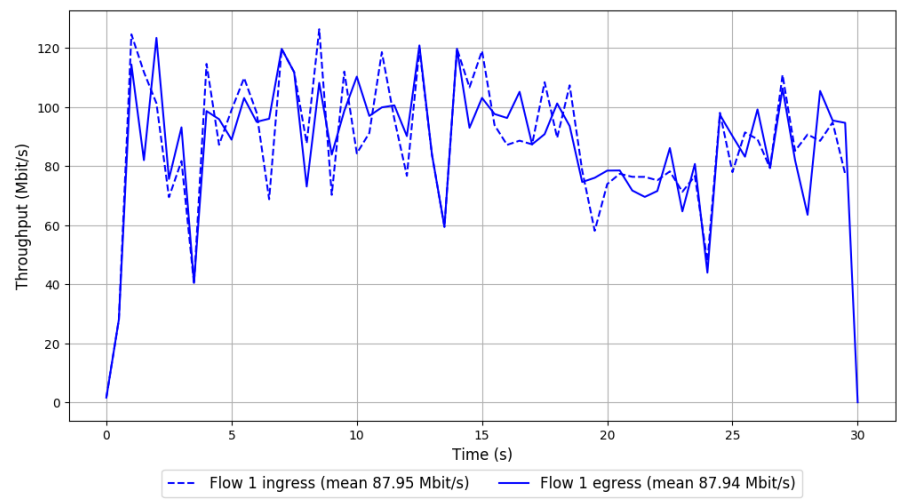
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	92.52	70.94	0.01
CalibratedKoho	9	427.14	86.06	0.03
Copa	10	81.05	63.04	0.00
TCP Cubic	10	73.51	64.54	0.02
Indigo	10	190.44	61.66	0.00
KohoCC	10	9.43	62.17	0.00
LEDBAT	10	5.76	62.40	0.09
PCC	10	562.75	137.07	0.62
QUIC Cubic	10	54.85	62.44	0.00
SCReAM	10	0.22	62.73	0.00
Sprout	10	6.60	62.76	0.08
TaoVA-100x	8	169.17	63.18	0.00
TCP Vegas	10	75.66	63.45	0.03
Verus	10	269.75	101.04	0.03
WebRTC media	10	2.23	62.96	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2017-09-18 10:17:14
End at: 2017-09-18 10:17:44

# Below is generated by plot.py at 2017-09-18 13:18:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.94 Mbit/s
95th percentile per-packet one-way delay: 71.649 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.94 Mbit/s
95th percentile per-packet one-way delay: 71.649 ms
Loss rate: 0.01%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-18 10:28:39

End at: 2017-09-18 10:29:09

Below is generated by plot.py at 2017-09-18 13:18:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 71.774 ms

Loss rate: 0.00%

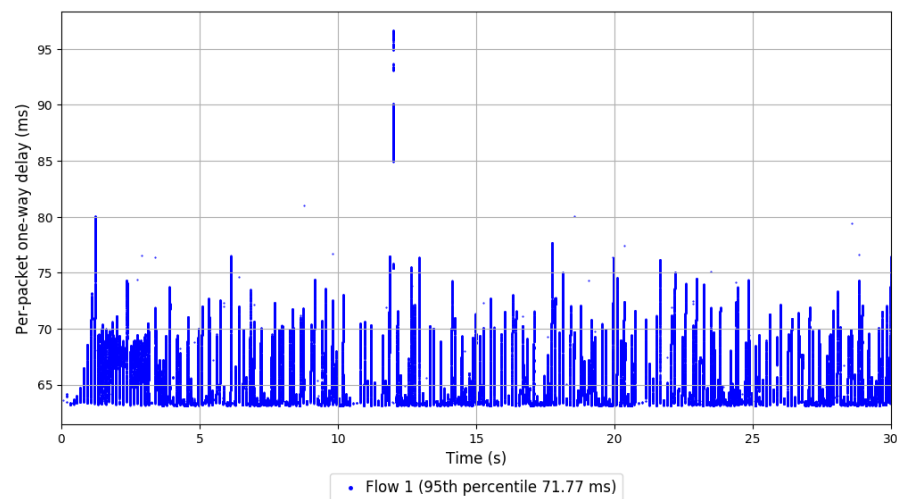
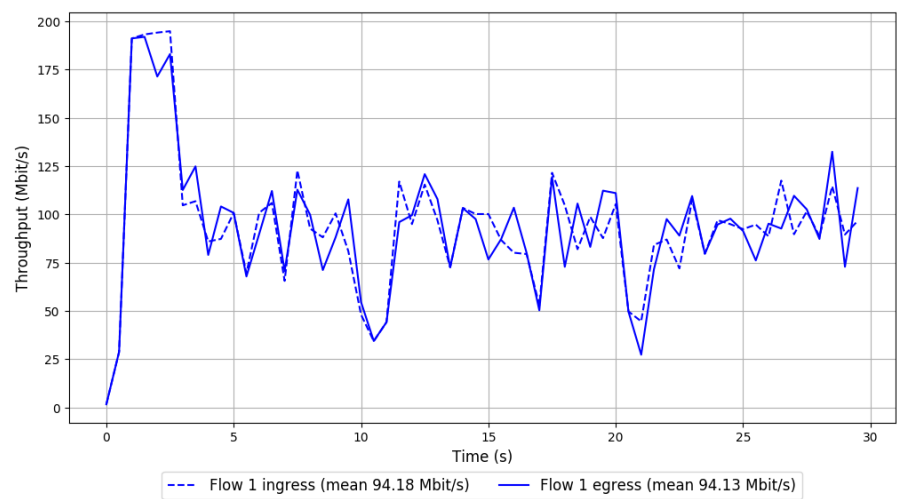
-- Flow 1:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 71.774 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-18 10:40:05

End at: 2017-09-18 10:40:35

Below is generated by plot.py at 2017-09-18 13:18:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 71.500 ms

Loss rate: 0.00%

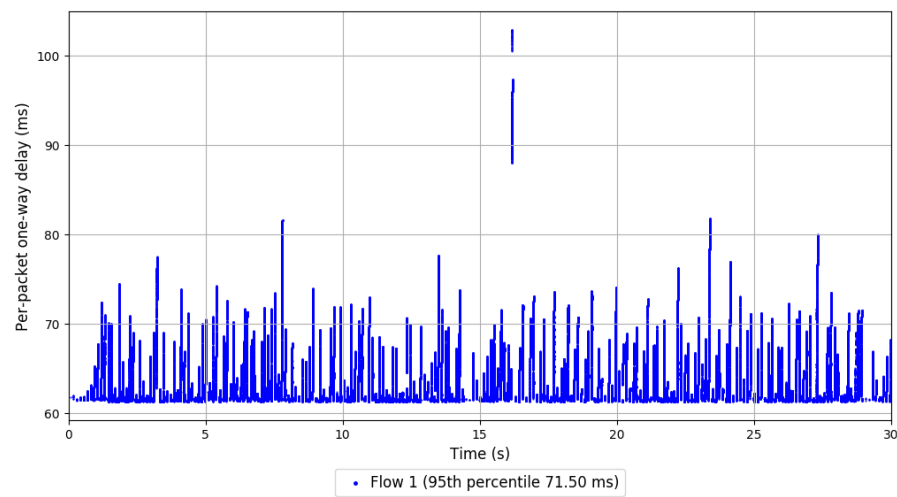
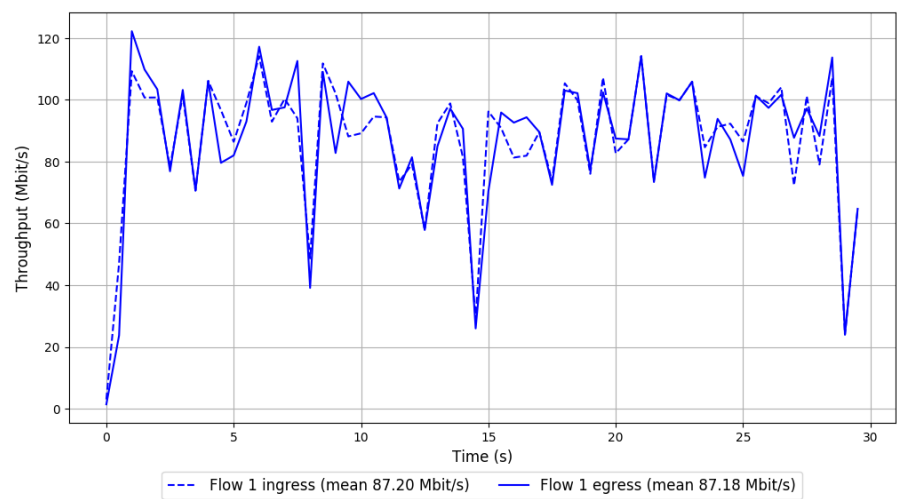
-- Flow 1:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 71.500 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-18 10:51:37

End at: 2017-09-18 10:52:07

Below is generated by plot.py at 2017-09-18 13:18:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.68 Mbit/s

95th percentile per-packet one-way delay: 72.178 ms

Loss rate: 0.01%

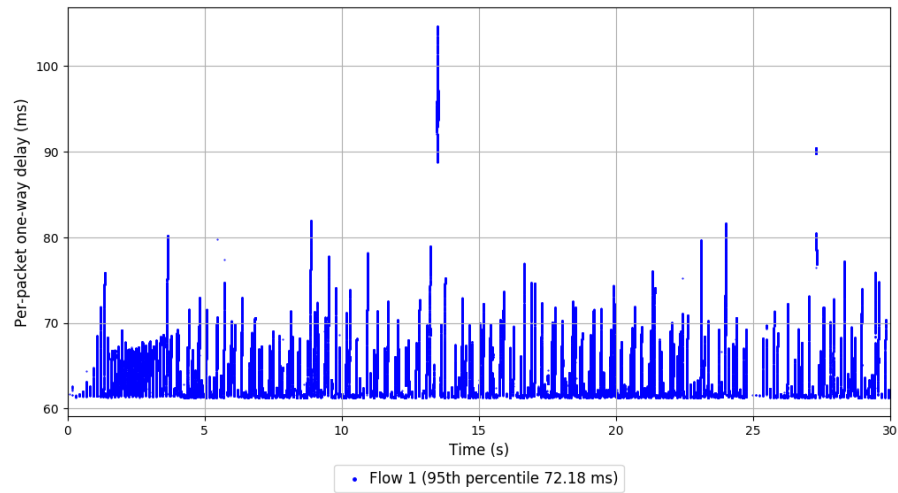
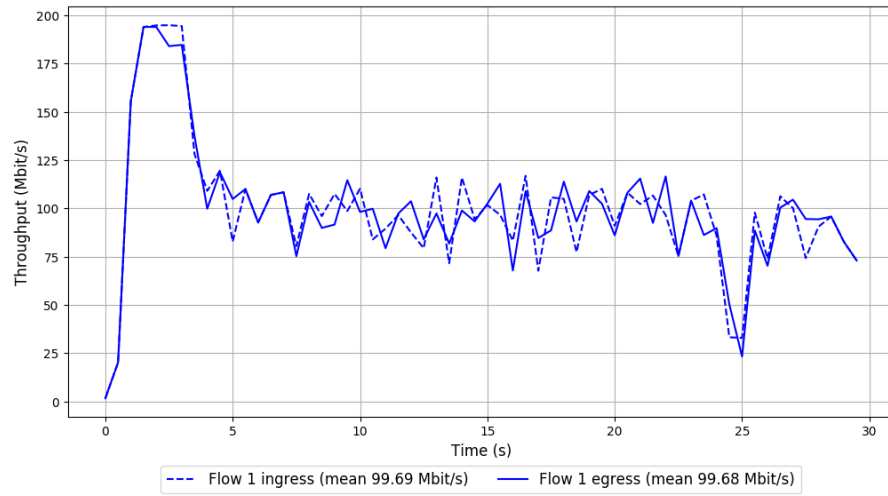
-- Flow 1:

Average throughput: 99.68 Mbit/s

95th percentile per-packet one-way delay: 72.178 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-18 11:02:58

End at: 2017-09-18 11:03:28

Below is generated by plot.py at 2017-09-18 13:18:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 69.455 ms

Loss rate: 0.00%

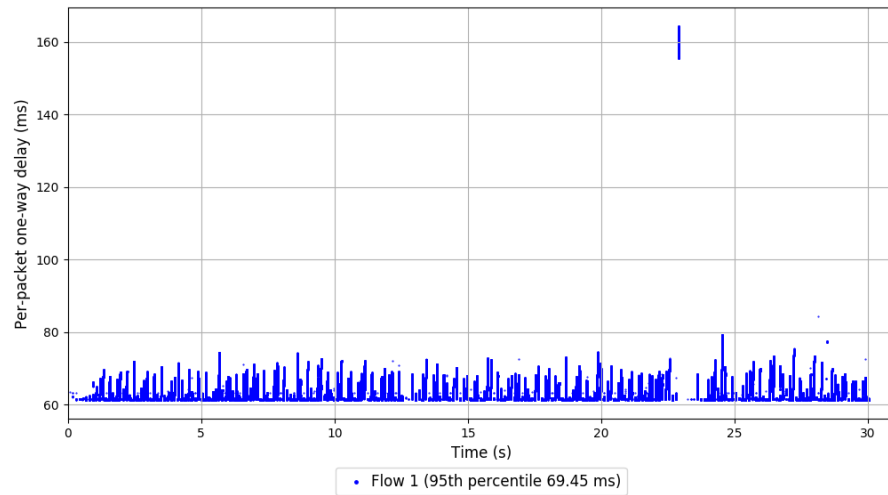
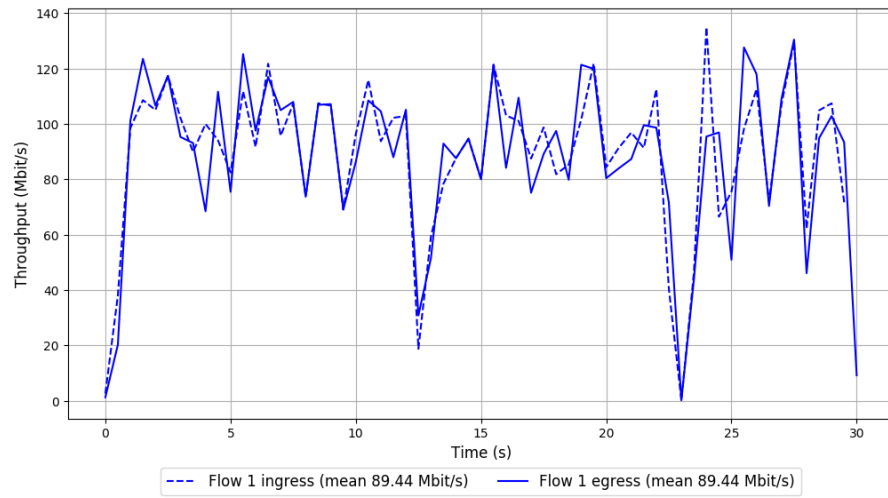
-- Flow 1:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 69.455 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-18 11:14:34

End at: 2017-09-18 11:15:04

Below is generated by plot.py at 2017-09-18 13:18:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 70.770 ms

Loss rate: 0.07%

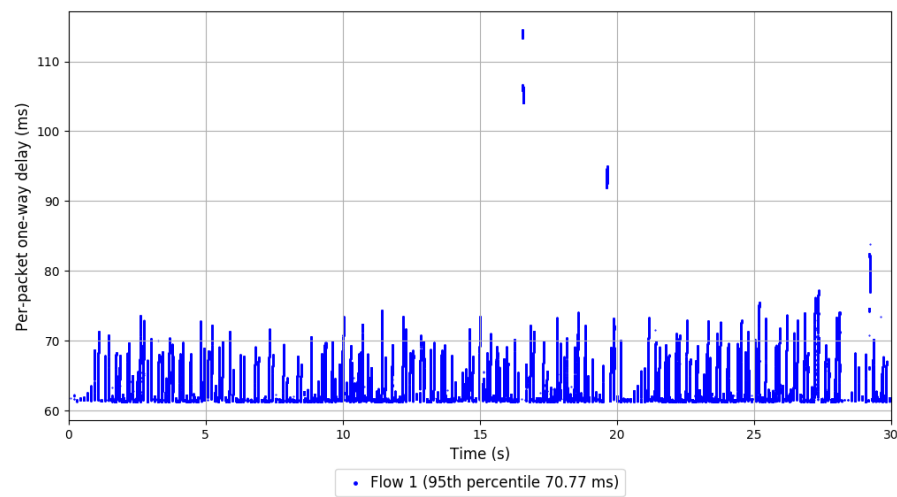
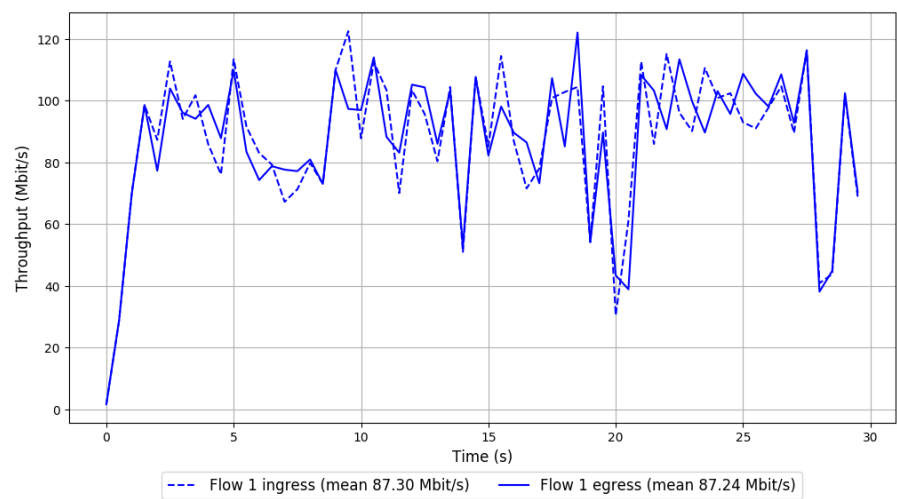
-- Flow 1:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 70.770 ms

Loss rate: 0.07%

Run 6: Report of TCP BBR — Data Link

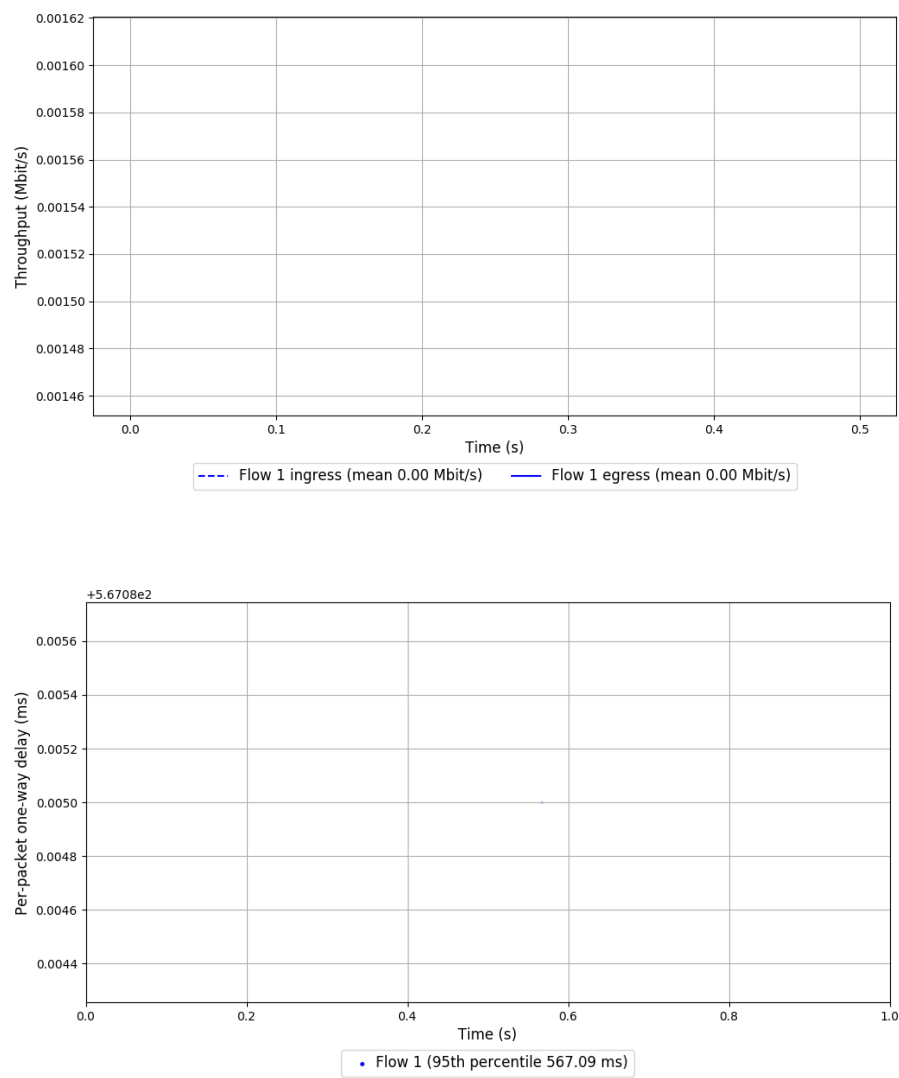


Run 7: Statistics of TCP BBR

Start at: 2017-09-18 11:25:55

End at: 2017-09-18 11:26:25

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-18 11:37:13

End at: 2017-09-18 11:37:43

Below is generated by plot.py at 2017-09-18 13:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.81 Mbit/s

95th percentile per-packet one-way delay: 71.385 ms

Loss rate: 0.02%

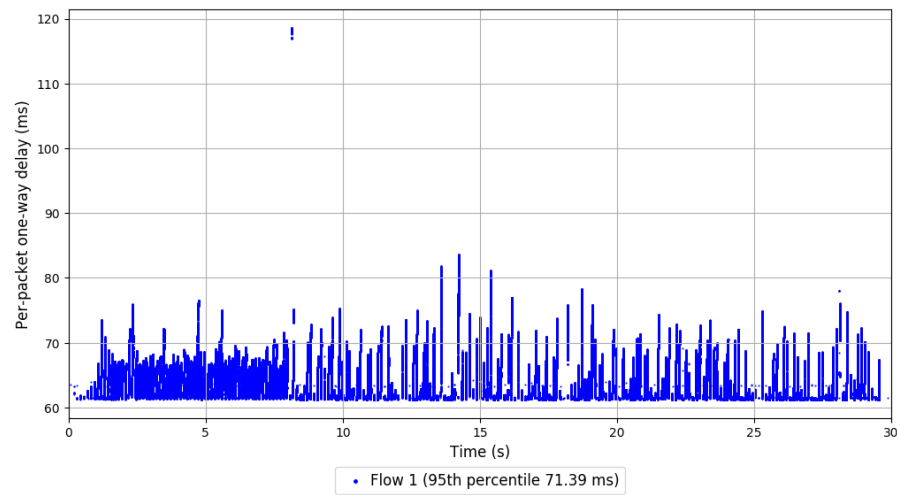
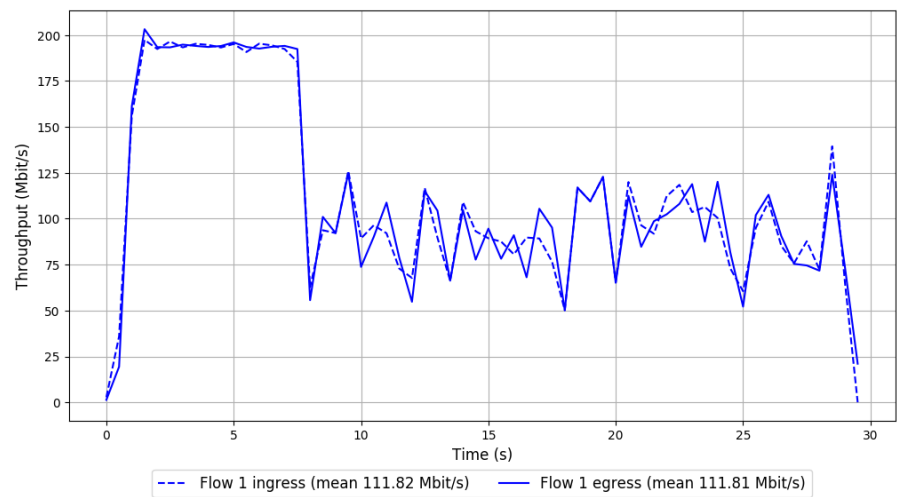
-- Flow 1:

Average throughput: 111.81 Mbit/s

95th percentile per-packet one-way delay: 71.385 ms

Loss rate: 0.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-18 11:48:42

End at: 2017-09-18 11:49:12

Below is generated by plot.py at 2017-09-18 13:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 68.805 ms

Loss rate: 0.01%

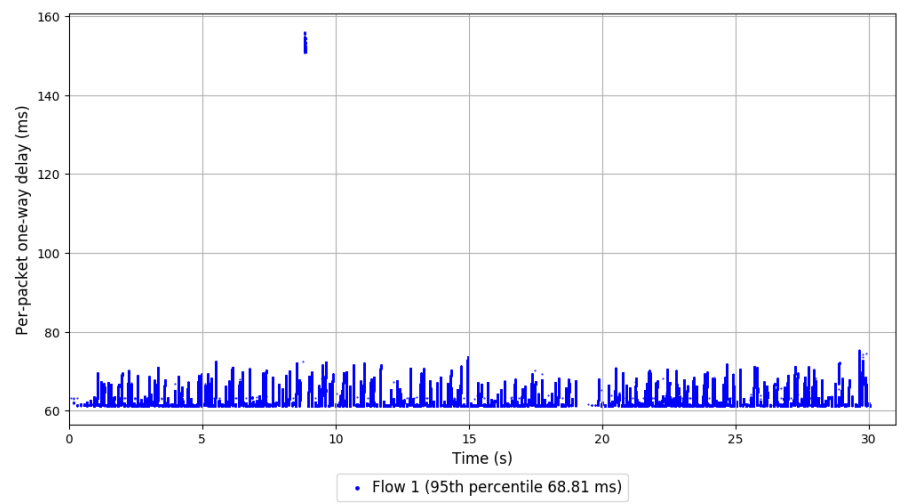
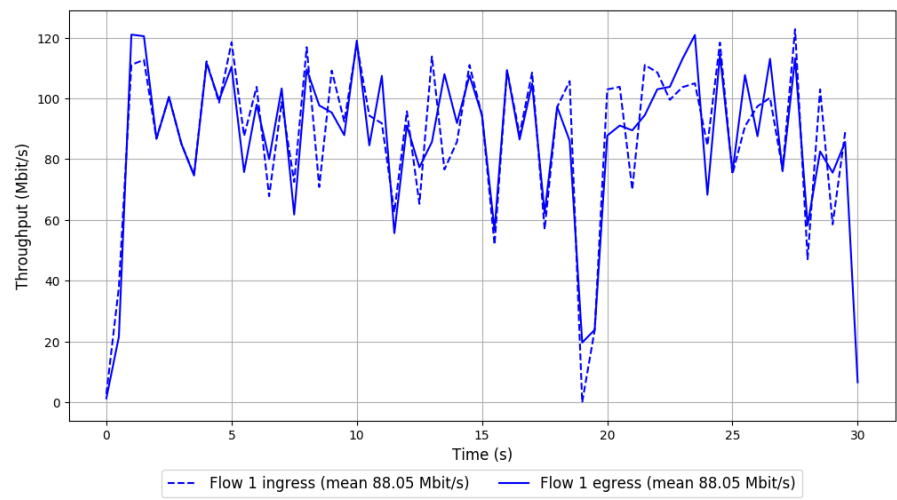
-- Flow 1:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 68.805 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-18 12:00:01

End at: 2017-09-18 12:00:31

Below is generated by plot.py at 2017-09-18 13:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 70.969 ms

Loss rate: 0.01%

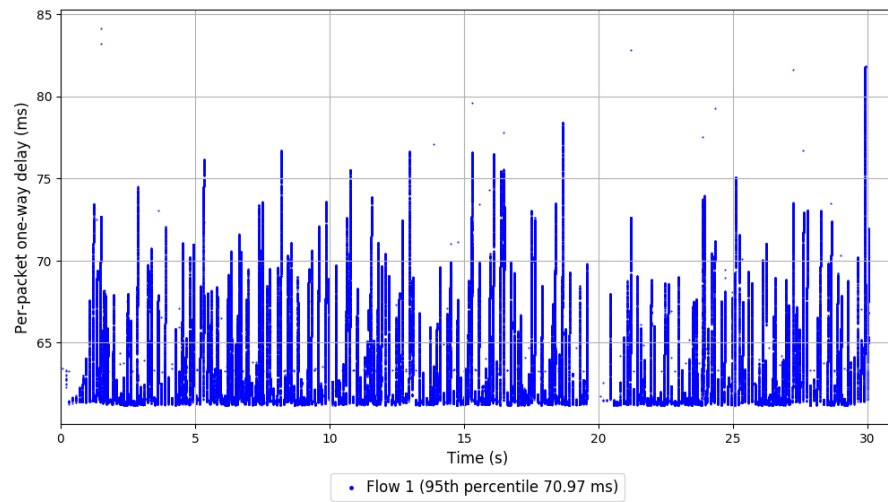
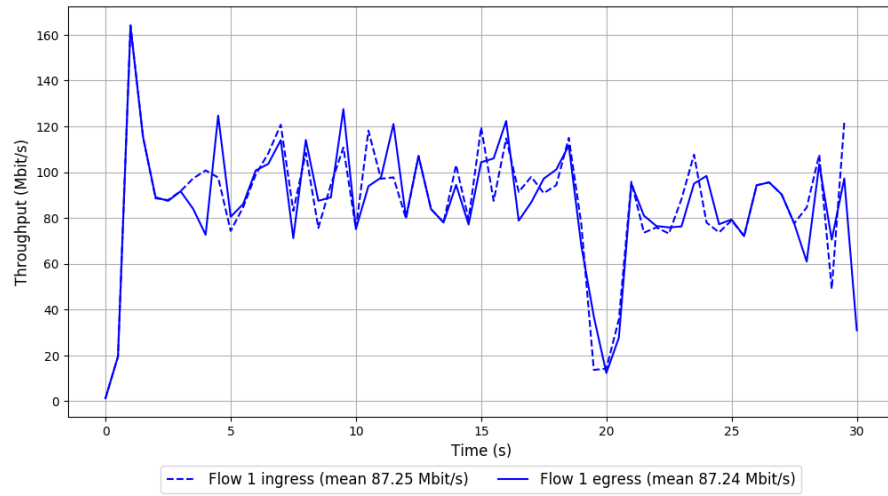
-- Flow 1:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 70.969 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-09-18 10:19:31

End at: 2017-09-18 10:20:01

Below is generated by plot.py at 2017-09-18 13:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.79 Mbit/s

95th percentile per-packet one-way delay: 86.823 ms

Loss rate: 0.00%

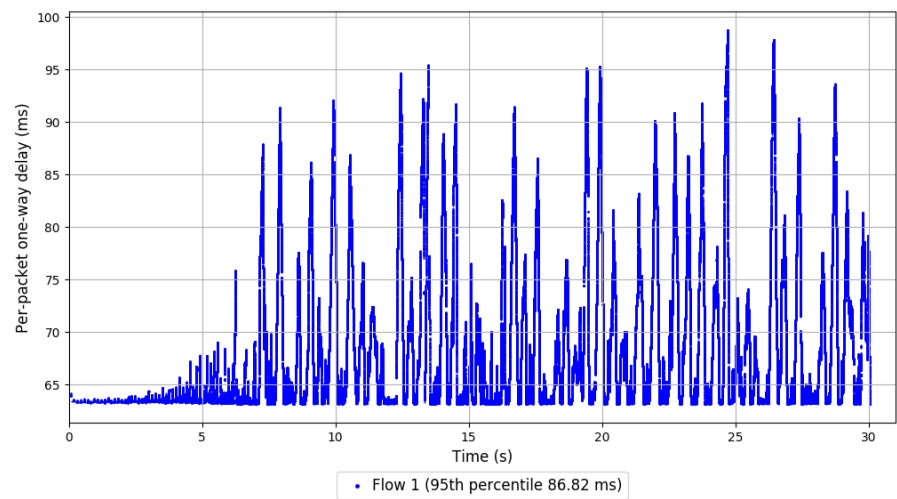
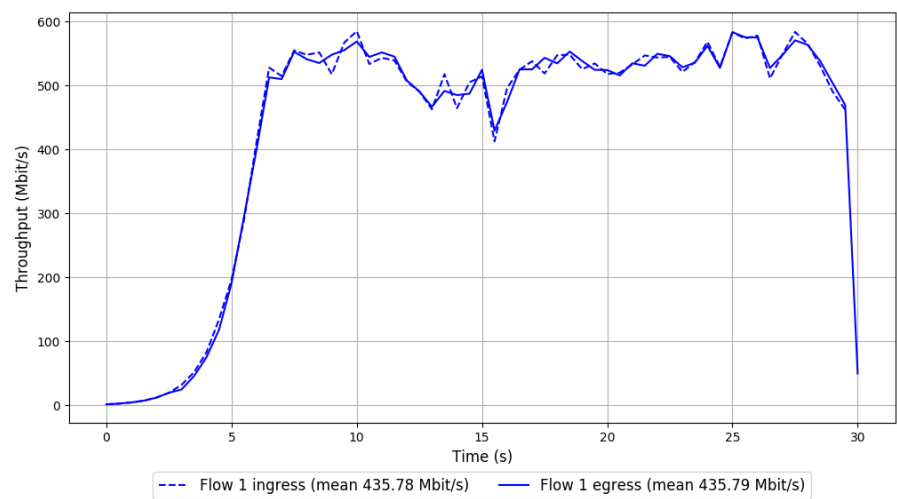
-- Flow 1:

Average throughput: 435.79 Mbit/s

95th percentile per-packet one-way delay: 86.823 ms

Loss rate: 0.00%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-09-18 10:30:56

End at: 2017-09-18 10:31:26

Below is generated by plot.py at 2017-09-18 13:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.27 Mbit/s

95th percentile per-packet one-way delay: 86.490 ms

Loss rate: 0.07%

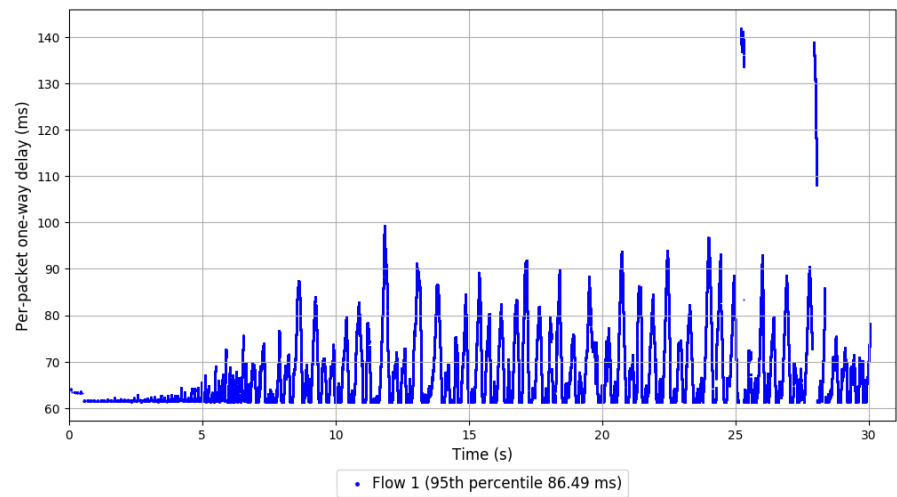
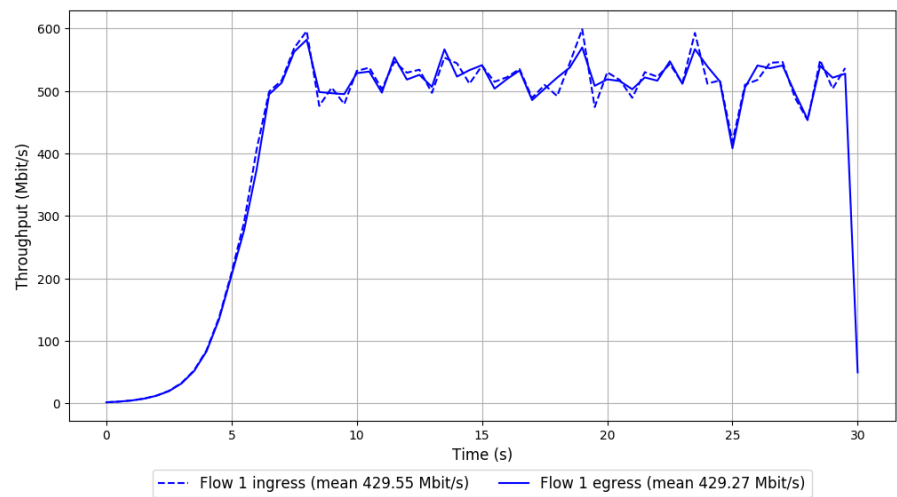
-- Flow 1:

Average throughput: 429.27 Mbit/s

95th percentile per-packet one-way delay: 86.490 ms

Loss rate: 0.07%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-09-18 10:42:21

End at: 2017-09-18 10:42:51

Below is generated by plot.py at 2017-09-18 13:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.38 Mbit/s

95th percentile per-packet one-way delay: 83.824 ms

Loss rate: 0.03%

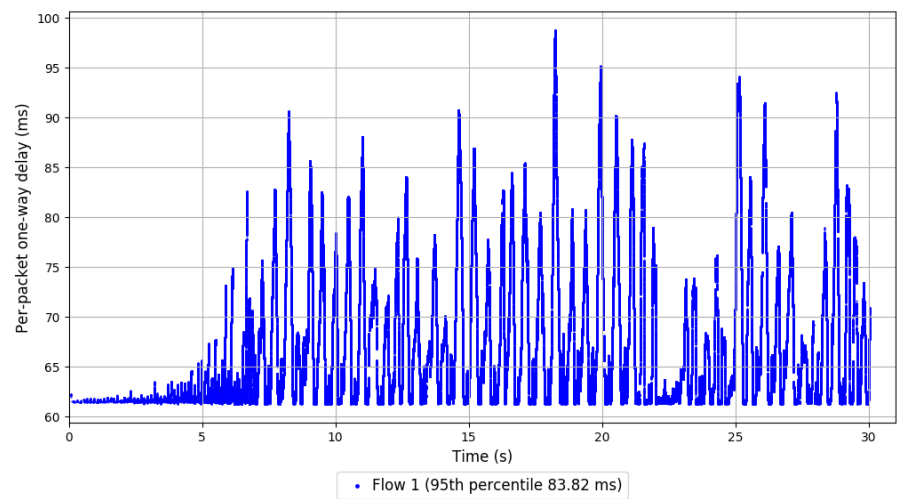
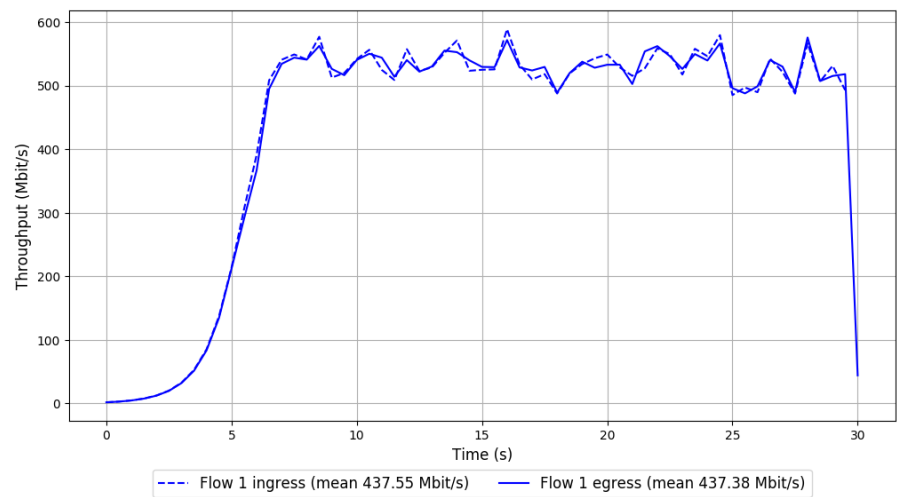
-- Flow 1:

Average throughput: 437.38 Mbit/s

95th percentile per-packet one-way delay: 83.824 ms

Loss rate: 0.03%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-09-18 10:53:59

End at: 2017-09-18 10:54:29

Below is generated by plot.py at 2017-09-18 13:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 442.45 Mbit/s

95th percentile per-packet one-way delay: 87.811 ms

Loss rate: 0.10%

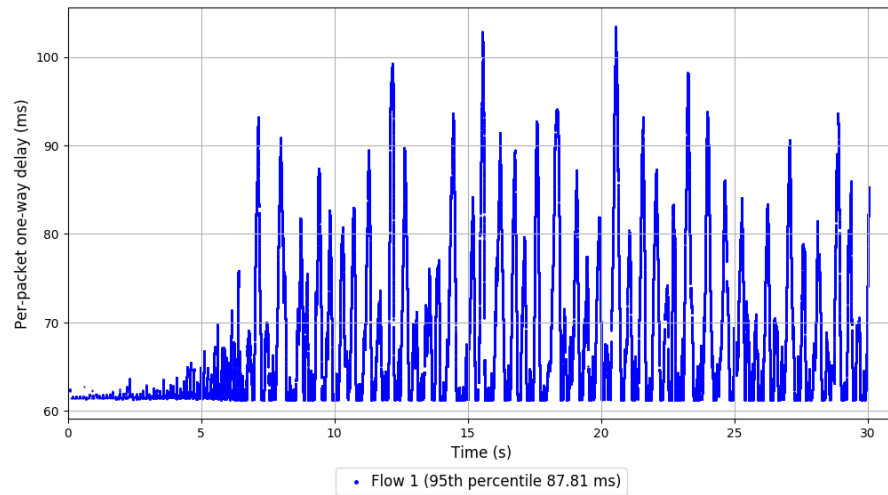
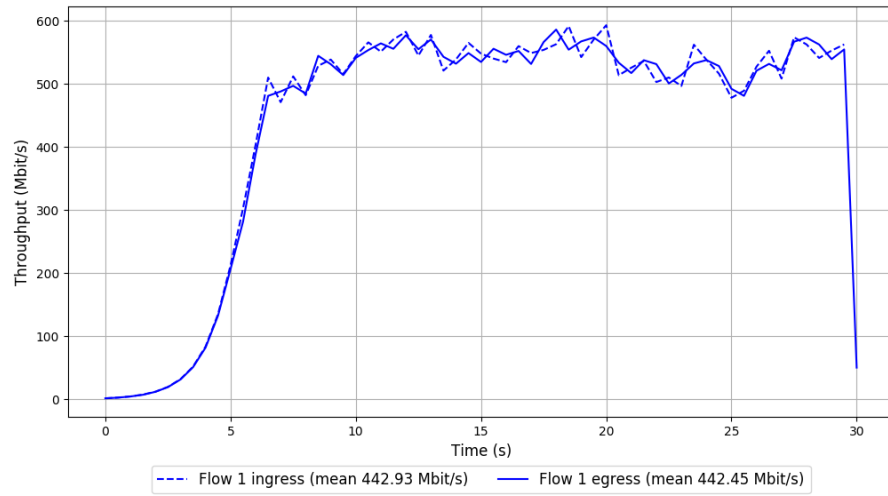
-- Flow 1:

Average throughput: 442.45 Mbit/s

95th percentile per-packet one-way delay: 87.811 ms

Loss rate: 0.10%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-09-18 11:05:22

End at: 2017-09-18 11:05:52

Below is generated by plot.py at 2017-09-18 13:25:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.00 Mbit/s

95th percentile per-packet one-way delay: 83.577 ms

Loss rate: 0.00%

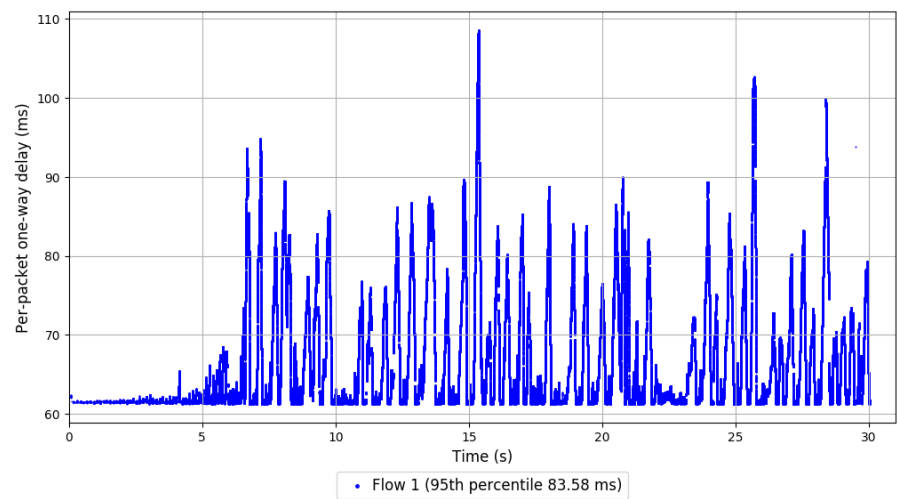
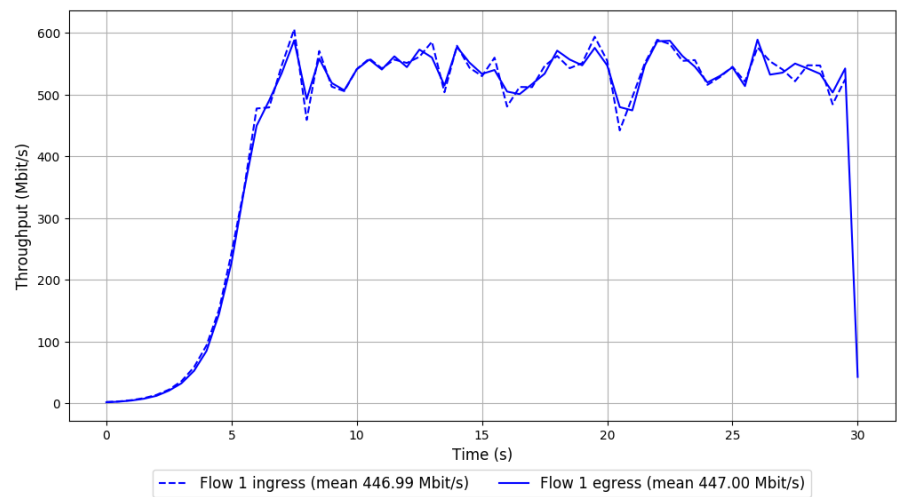
-- Flow 1:

Average throughput: 447.00 Mbit/s

95th percentile per-packet one-way delay: 83.577 ms

Loss rate: 0.00%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-09-18 11:16:54

End at: 2017-09-18 11:17:24

Below is generated by plot.py at 2017-09-18 13:25:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.02 Mbit/s

95th percentile per-packet one-way delay: 85.002 ms

Loss rate: 0.01%

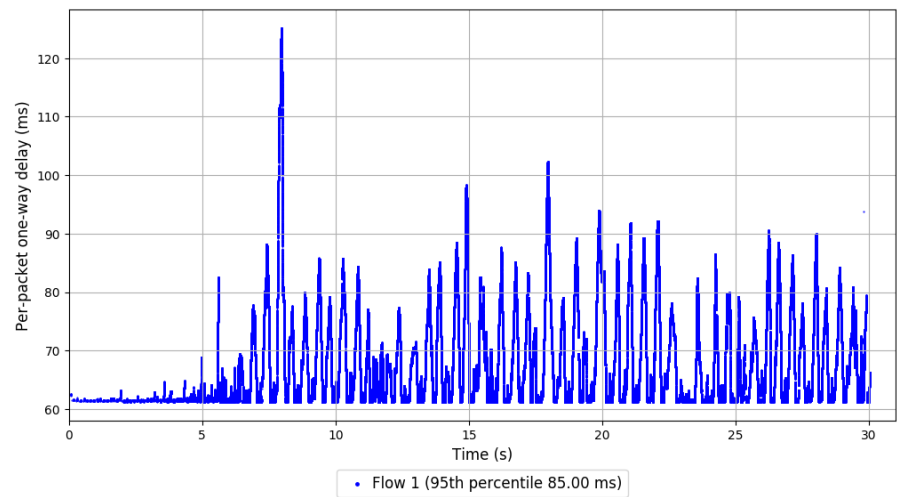
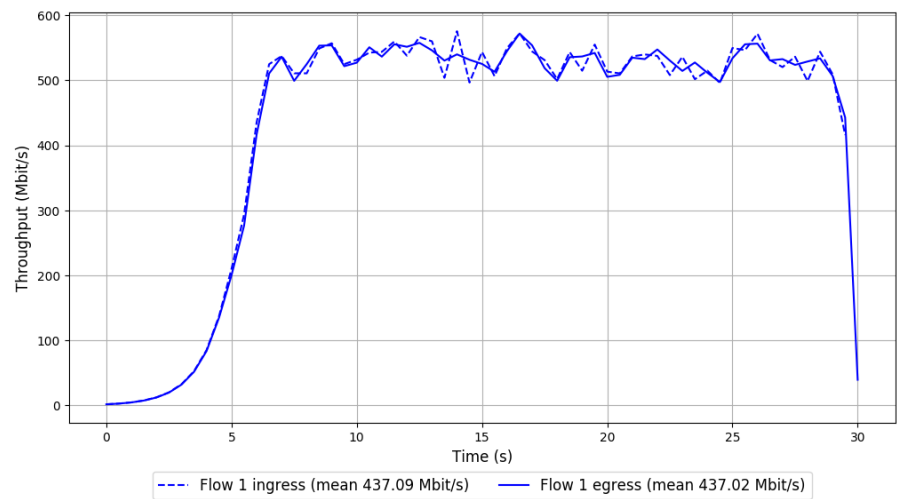
-- Flow 1:

Average throughput: 437.02 Mbit/s

95th percentile per-packet one-way delay: 85.002 ms

Loss rate: 0.01%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

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

End at: 2017-09-18 11:28:39

Below is generated by plot.py at 2017-09-18 13:25:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.12 Mbit/s

95th percentile per-packet one-way delay: 87.884 ms

Loss rate: 0.00%

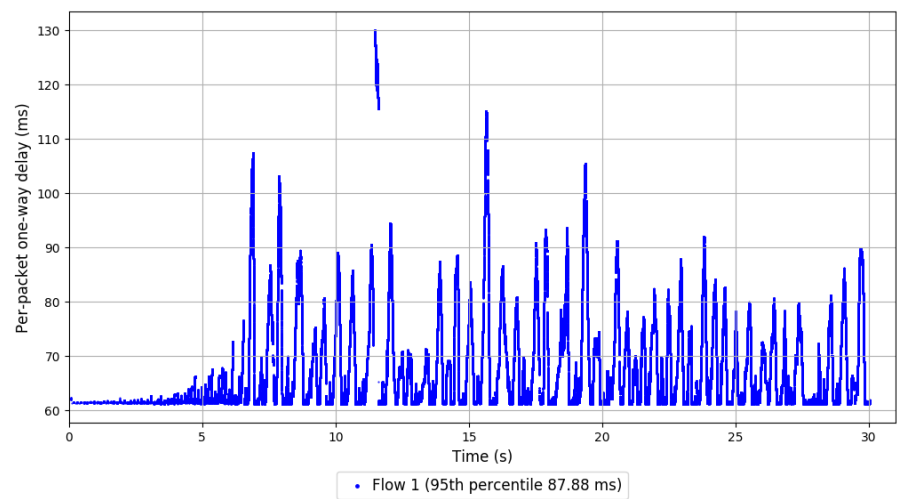
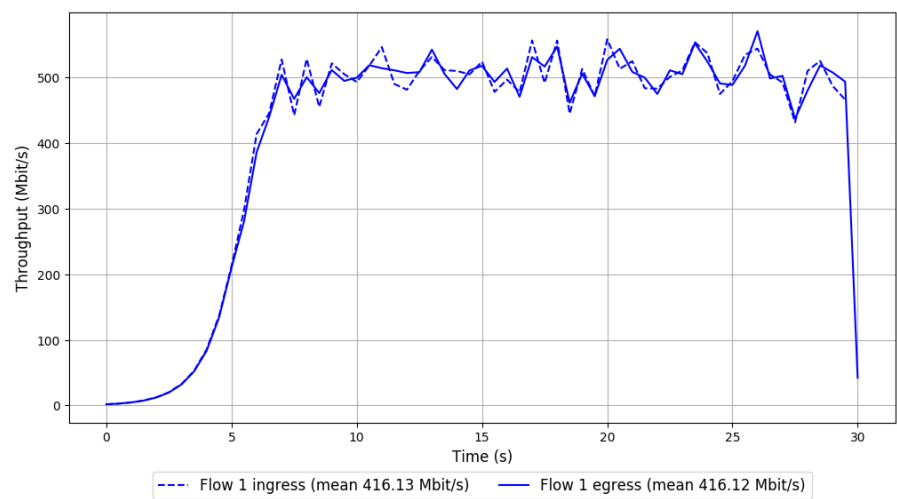
-- Flow 1:

Average throughput: 416.12 Mbit/s

95th percentile per-packet one-way delay: 87.884 ms

Loss rate: 0.00%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-09-18 11:39:36

End at: 2017-09-18 11:40:06

Below is generated by plot.py at 2017-09-18 13:26:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.85 Mbit/s

95th percentile per-packet one-way delay: 93.888 ms

Loss rate: 0.02%

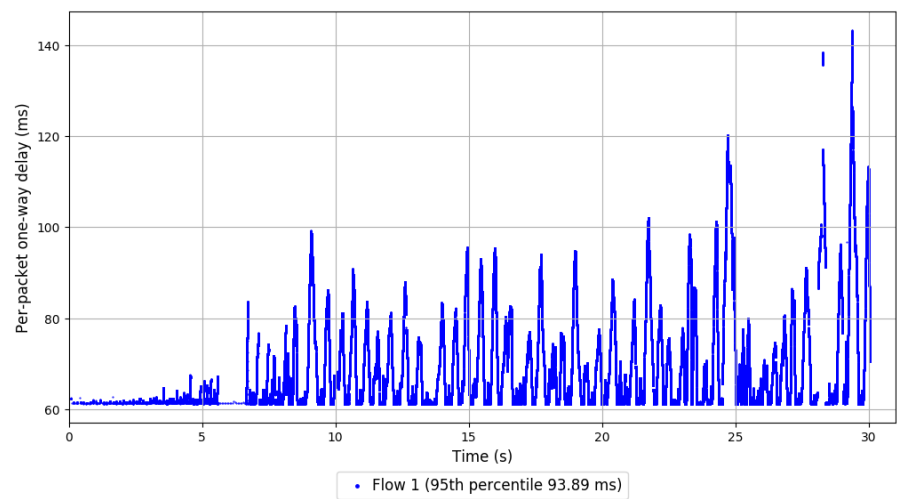
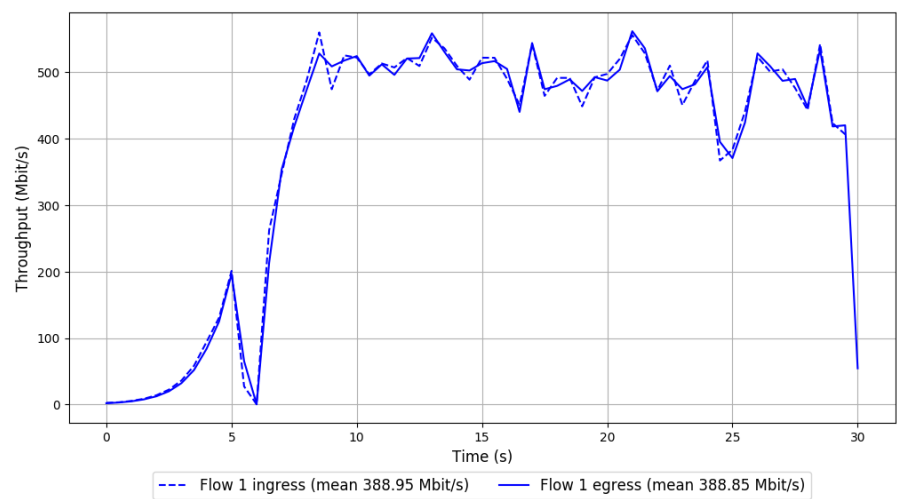
-- Flow 1:

Average throughput: 388.85 Mbit/s

95th percentile per-packet one-way delay: 93.888 ms

Loss rate: 0.02%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-09-18 11:51:03

End at: 2017-09-18 11:51:33

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.38 Mbit/s

95th percentile per-packet one-way delay: 79.281 ms

Loss rate: 0.04%

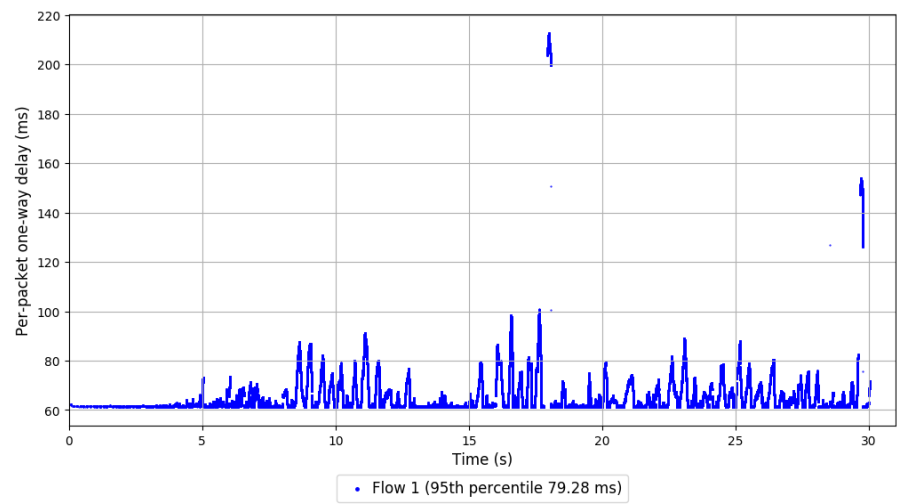
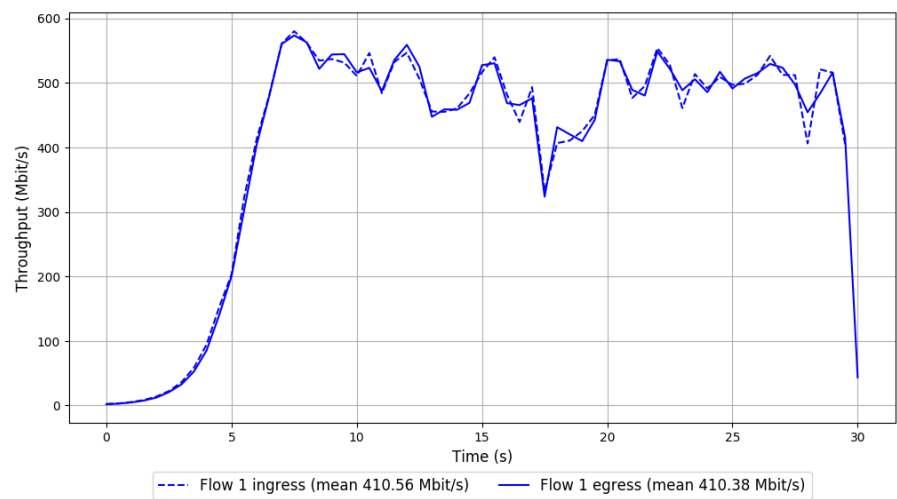
-- Flow 1:

Average throughput: 410.38 Mbit/s

95th percentile per-packet one-way delay: 79.281 ms

Loss rate: 0.04%

Run 9: Report of CalibratedKoho — Data Link

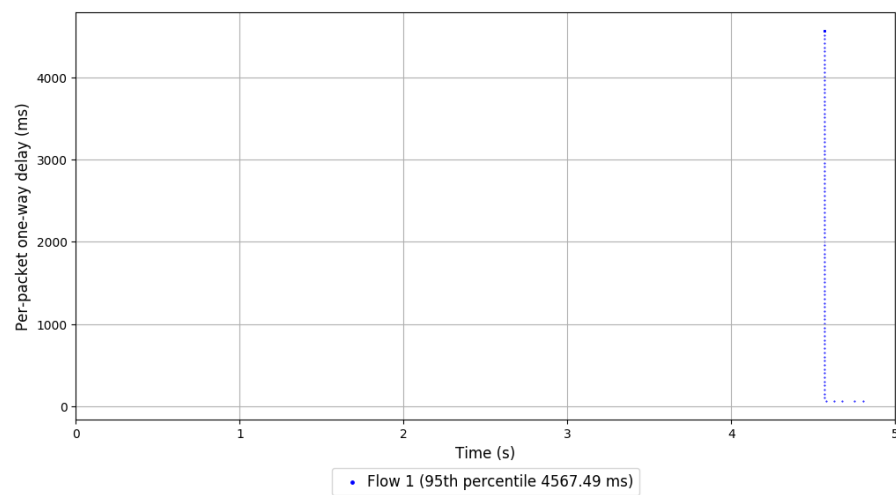
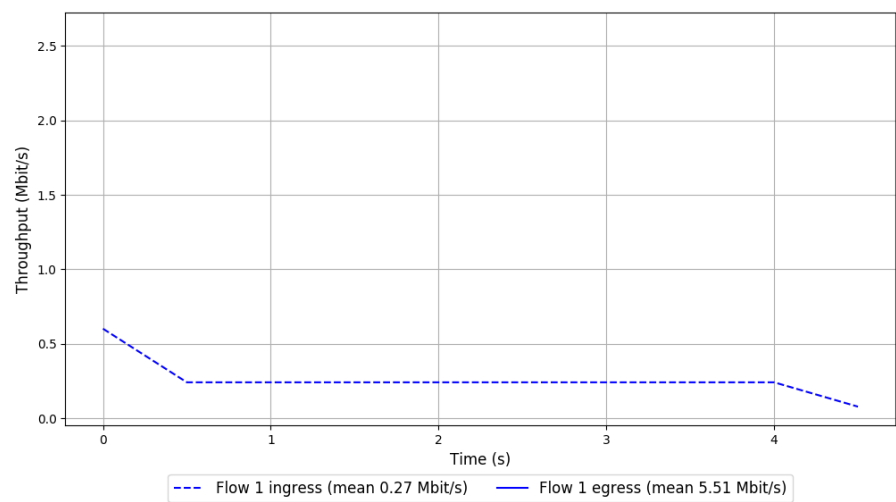


Run 10: Statistics of CalibratedKoho

Start at: 2017-09-18 12:02:21

End at: 2017-09-18 12:02:51

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-09-18 10:15:49

End at: 2017-09-18 10:16:19

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.65 Mbit/s

95th percentile per-packet one-way delay: 63.362 ms

Loss rate: 0.00%

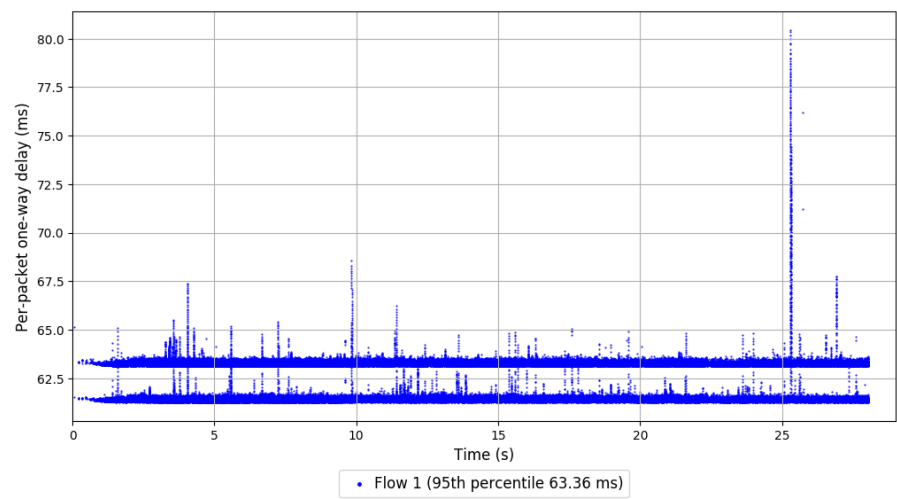
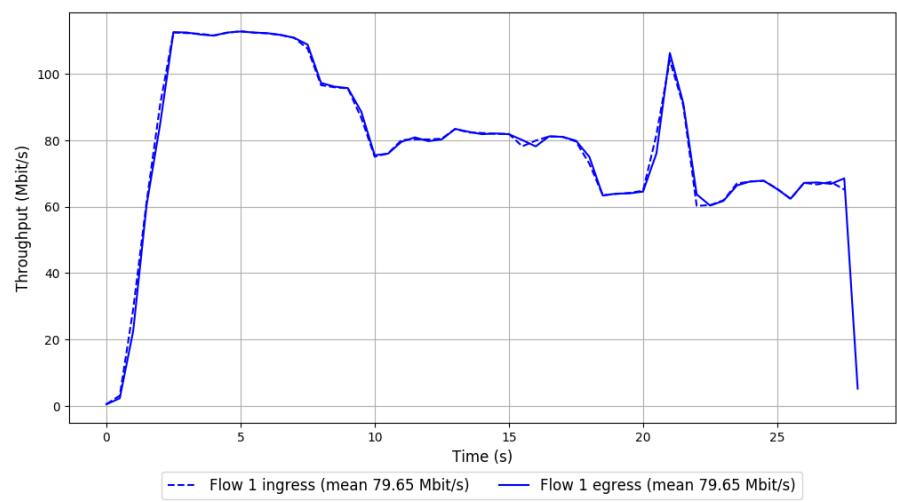
-- Flow 1:

Average throughput: 79.65 Mbit/s

95th percentile per-packet one-way delay: 63.362 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-09-18 10:27:09

End at: 2017-09-18 10:27:39

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.21 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.00%

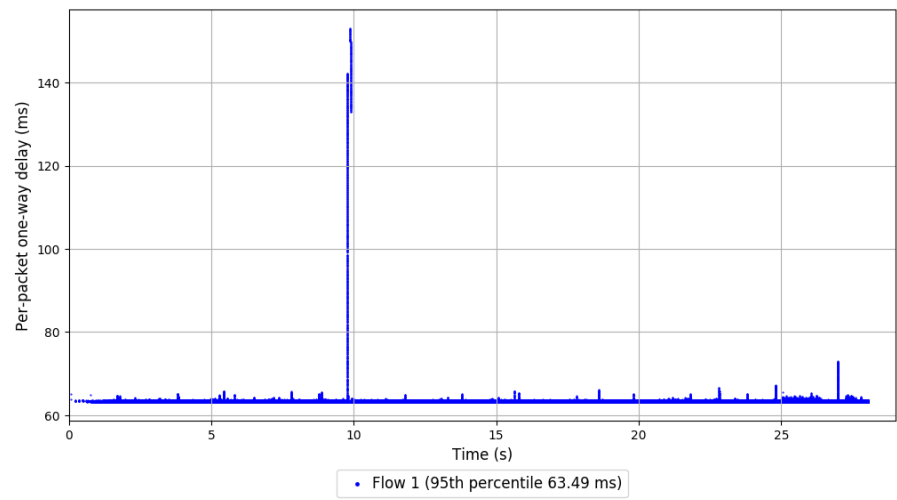
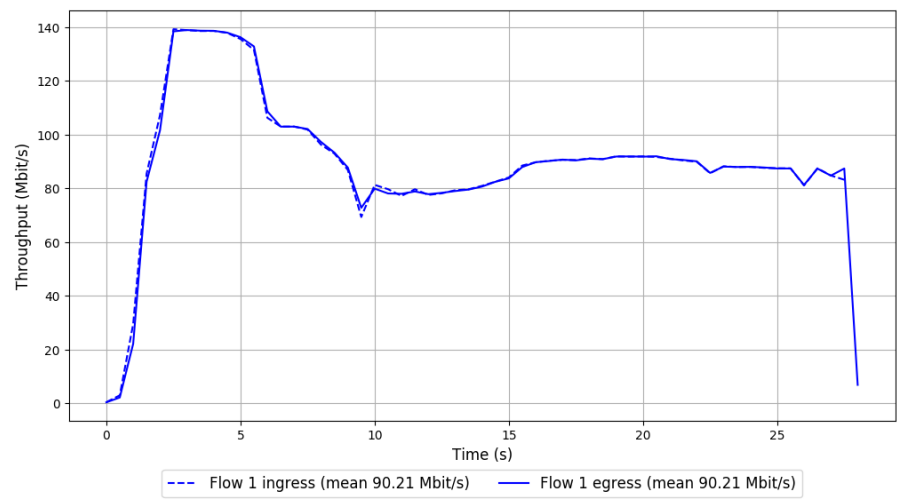
-- Flow 1:

Average throughput: 90.21 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-09-18 10:38:38

End at: 2017-09-18 10:39:08

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 61.520 ms

Loss rate: 0.00%

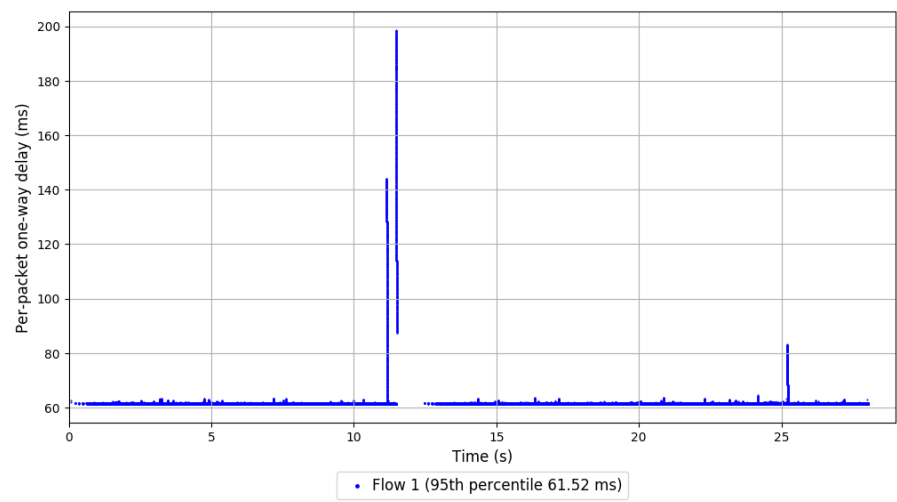
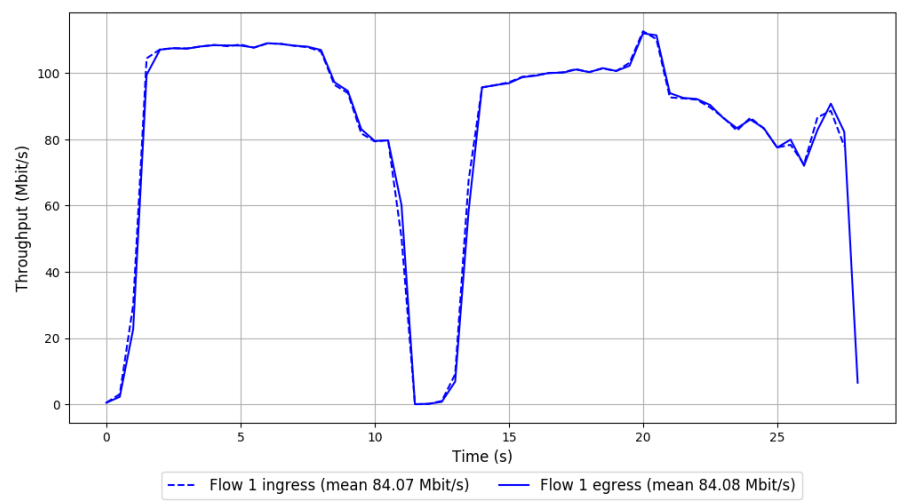
-- Flow 1:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 61.520 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2017-09-18 10:50:39

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 61.509 ms

Loss rate: 0.00%

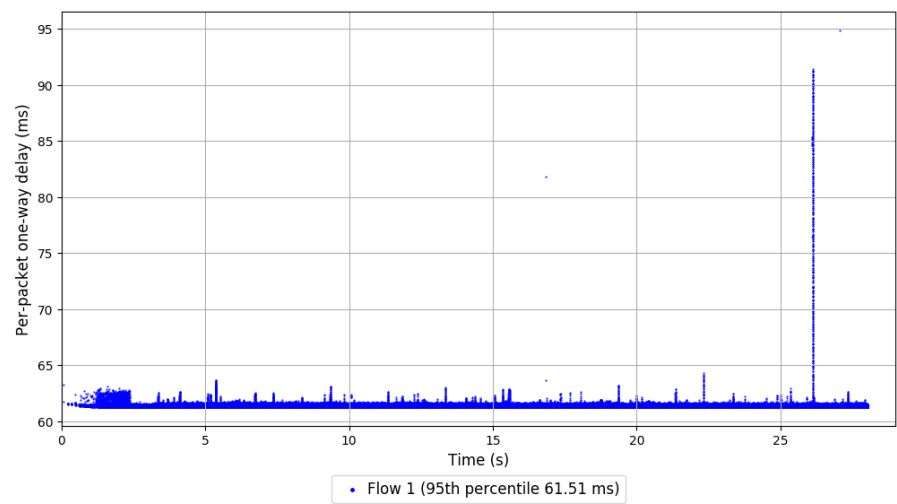
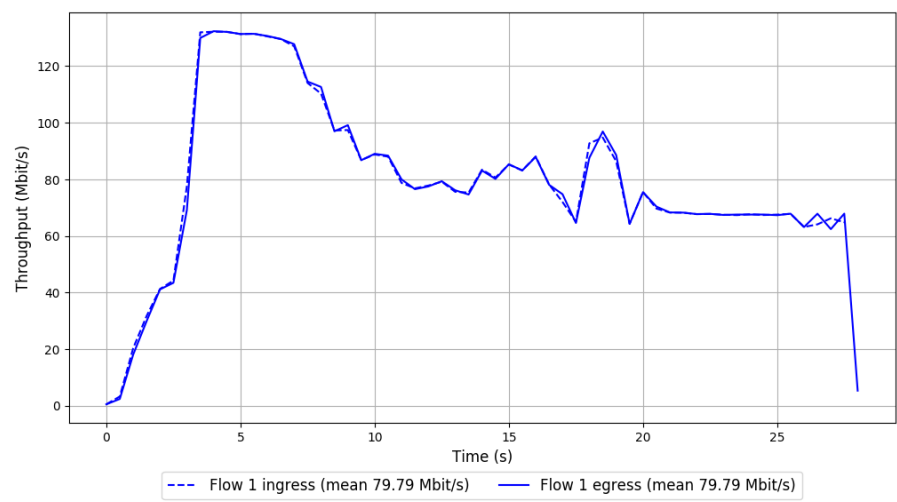
-- Flow 1:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 61.509 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-09-18 11:01:32

End at: 2017-09-18 11:02:02

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 63.238 ms

Loss rate: 0.00%

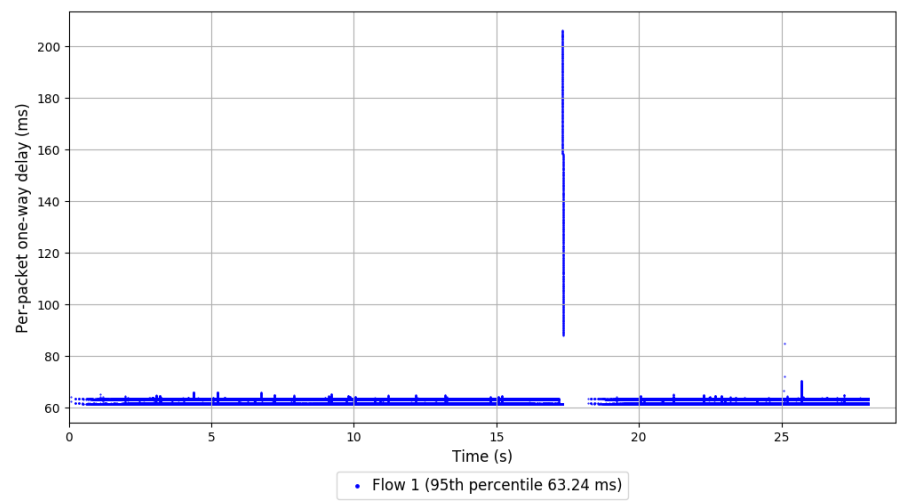
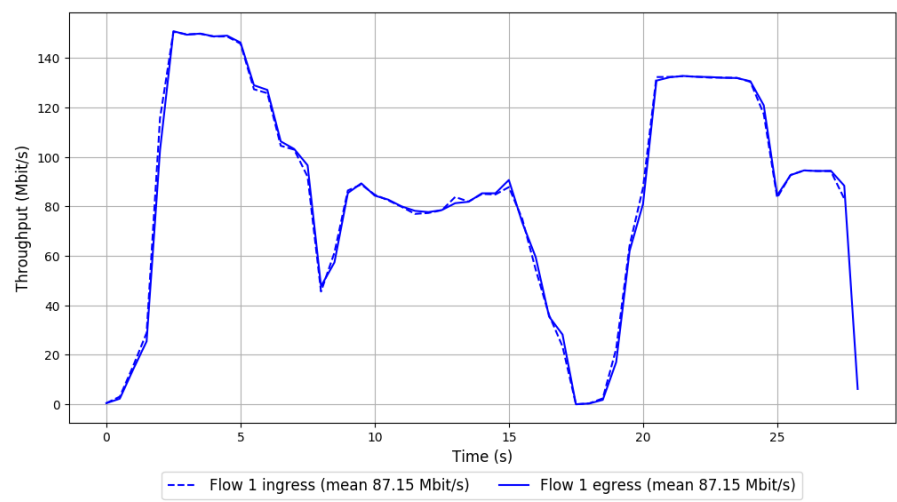
-- Flow 1:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 63.238 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-09-18 11:13:05

End at: 2017-09-18 11:13:36

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 63.492 ms

Loss rate: 0.00%

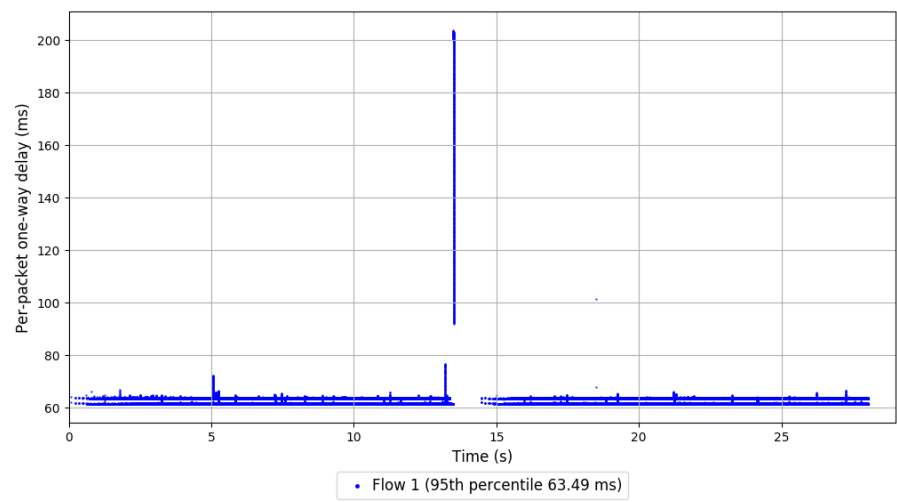
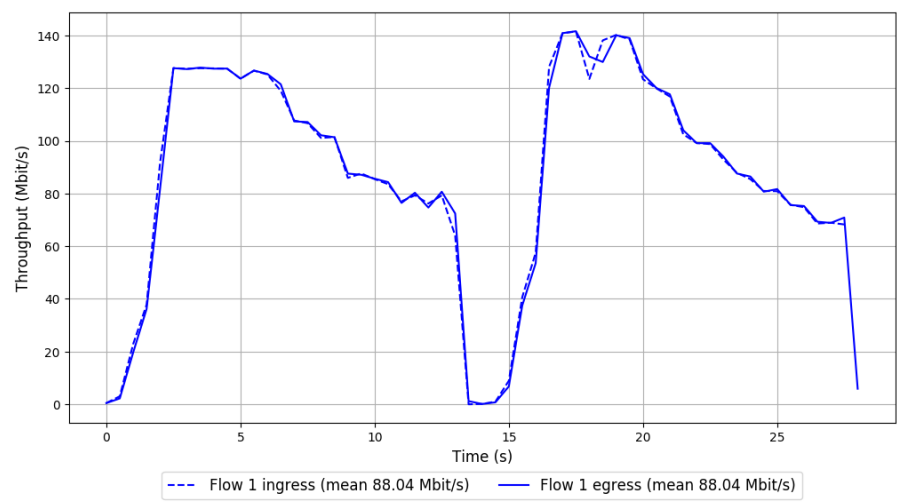
-- Flow 1:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 63.492 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-09-18 11:24:29

End at: 2017-09-18 11:24:59

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.22 Mbit/s

95th percentile per-packet one-way delay: 63.513 ms

Loss rate: 0.00%

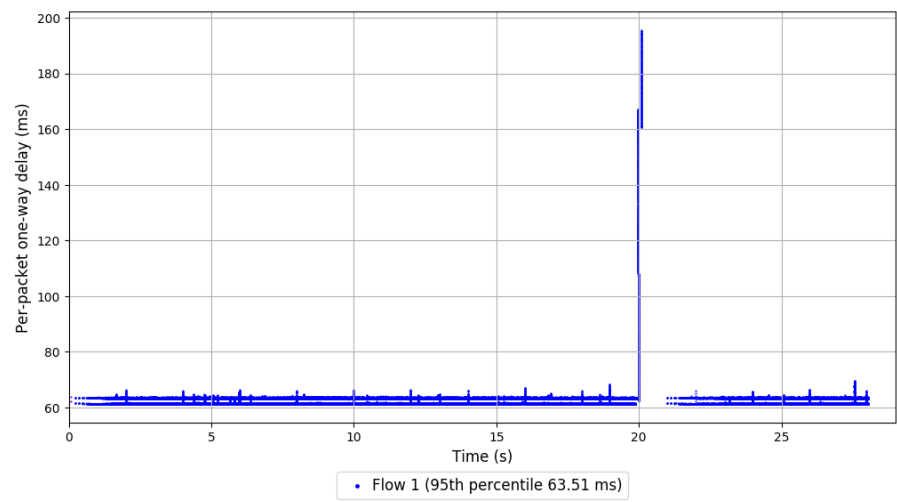
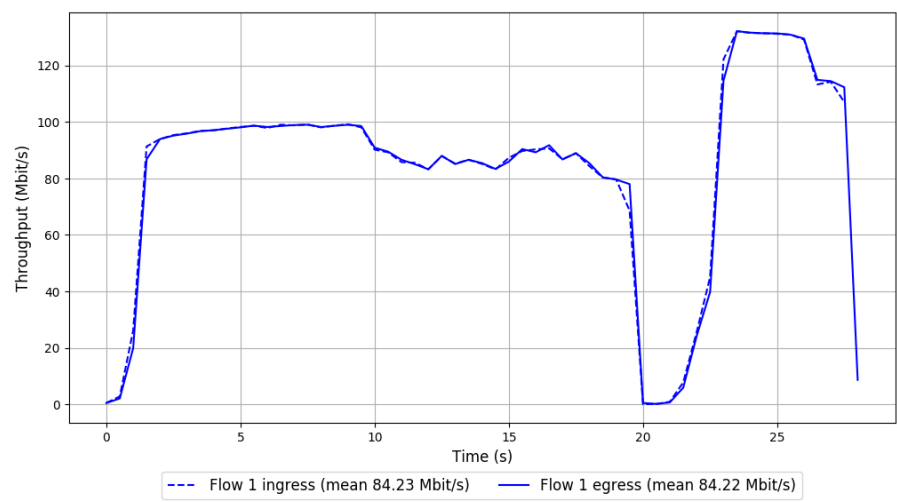
-- Flow 1:

Average throughput: 84.22 Mbit/s

95th percentile per-packet one-way delay: 63.513 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-09-18 11:35:46

End at: 2017-09-18 11:36:16

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.72 Mbit/s

95th percentile per-packet one-way delay: 63.408 ms

Loss rate: 0.00%

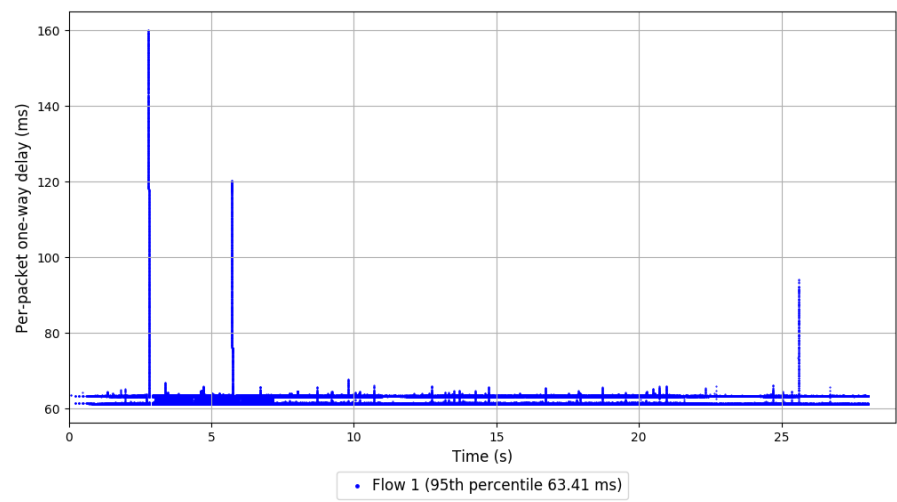
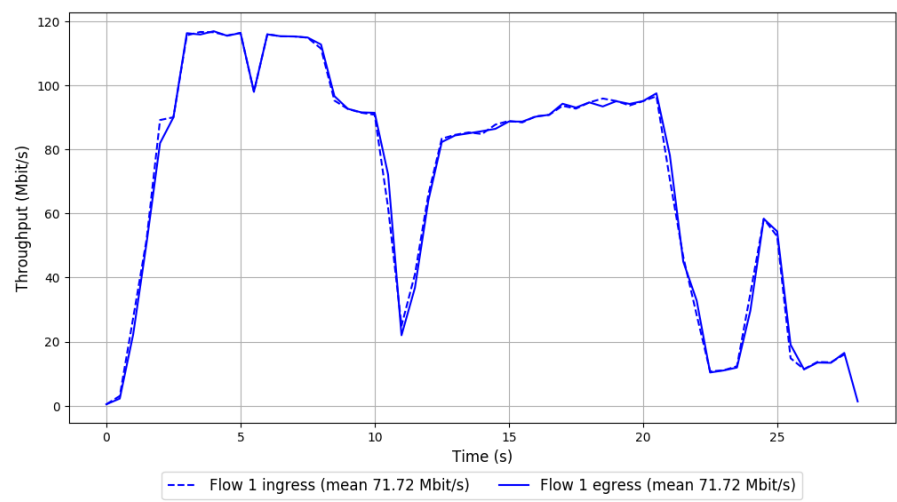
-- Flow 1:

Average throughput: 71.72 Mbit/s

95th percentile per-packet one-way delay: 63.408 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-09-18 11:47:13

End at: 2017-09-18 11:47:43

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 63.398 ms

Loss rate: 0.00%

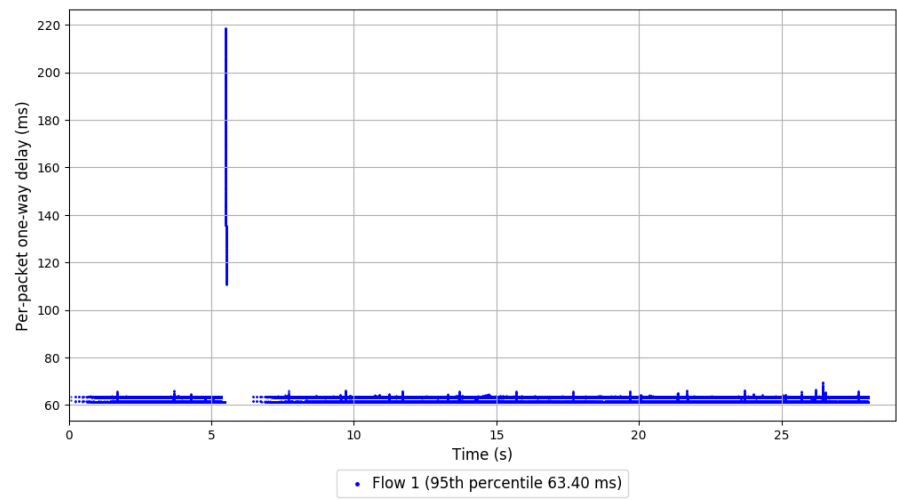
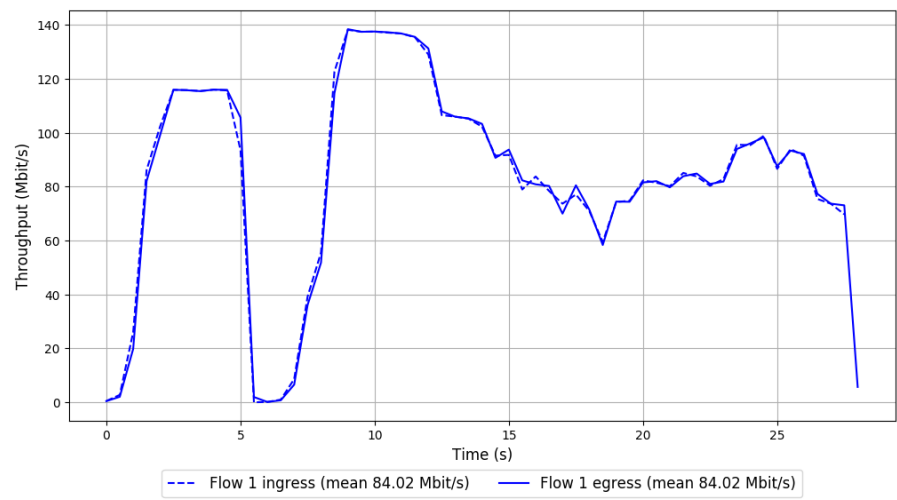
-- Flow 1:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 63.398 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-09-18 11:58:36

End at: 2017-09-18 11:59:06

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.57 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.00%

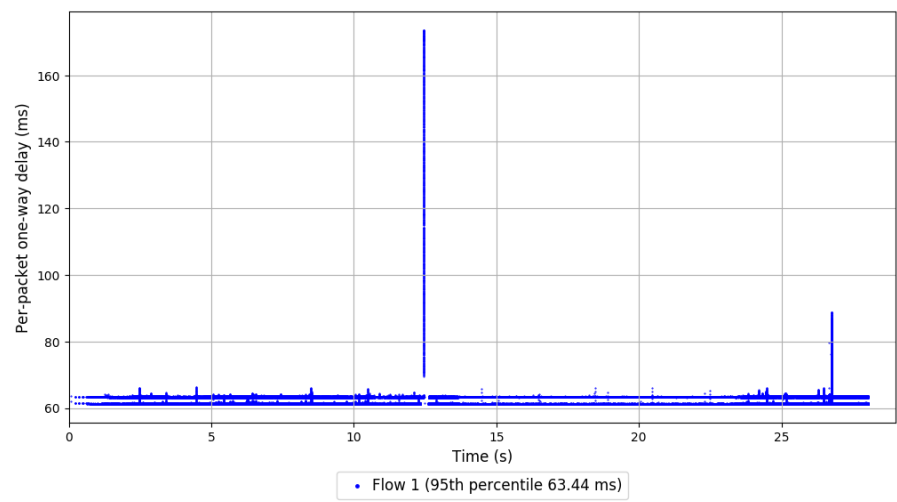
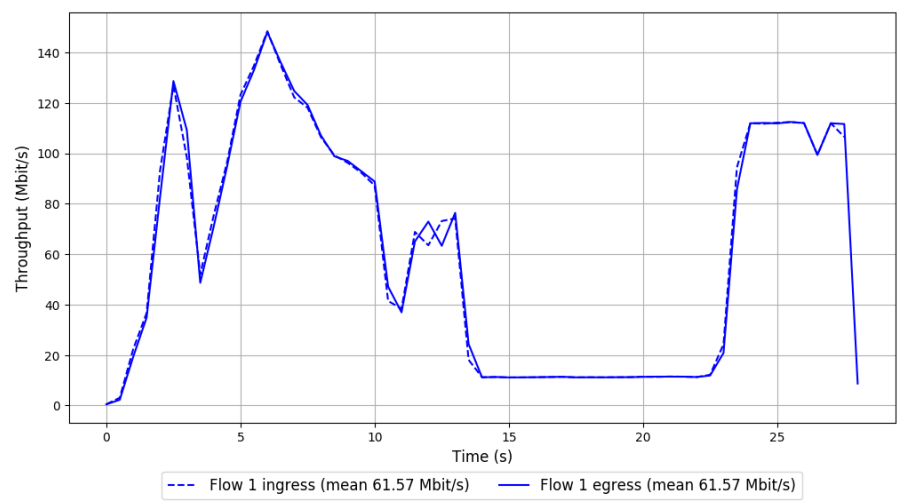
-- Flow 1:

Average throughput: 61.57 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 10:24:51

End at: 2017-09-18 10:25:21

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 64.863 ms

Loss rate: 0.04%

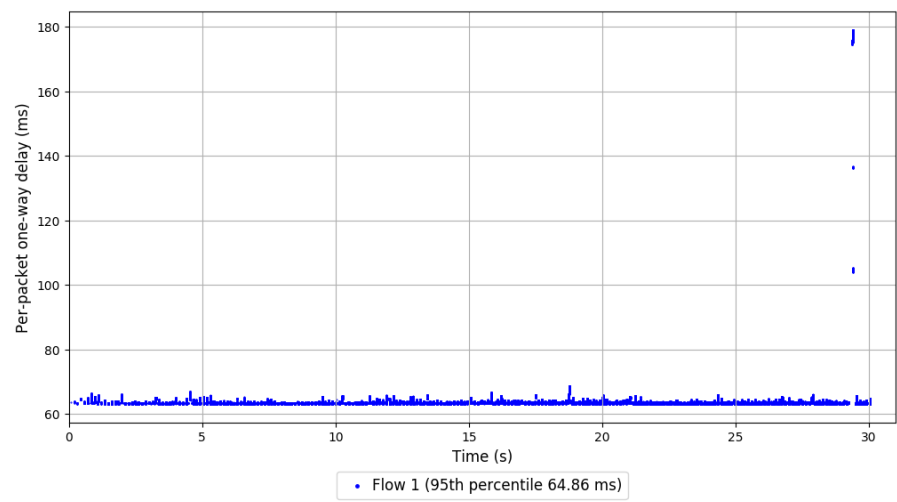
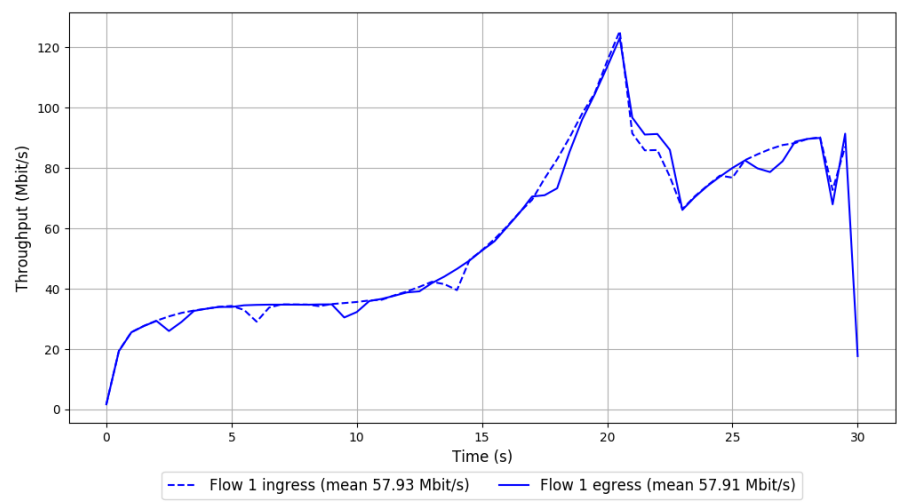
-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 64.863 ms

Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 10:36:15

End at: 2017-09-18 10:36:45

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.76 Mbit/s

95th percentile per-packet one-way delay: 65.585 ms

Loss rate: 0.01%

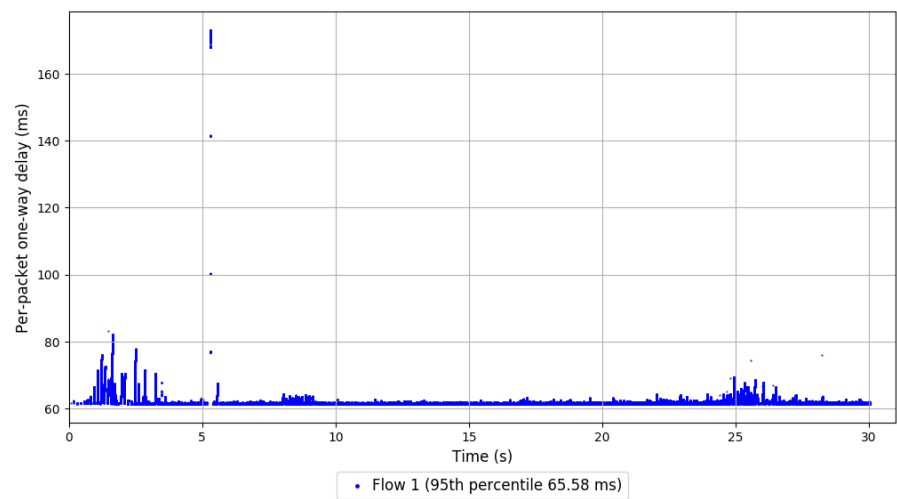
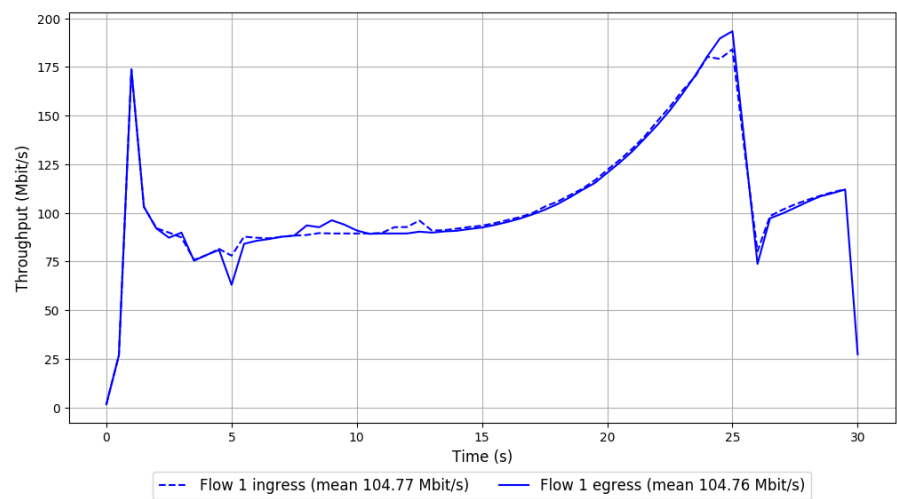
-- Flow 1:

Average throughput: 104.76 Mbit/s

95th percentile per-packet one-way delay: 65.585 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-18 10:47:49

End at: 2017-09-18 10:48:19

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 68.409 ms

Loss rate: 0.01%

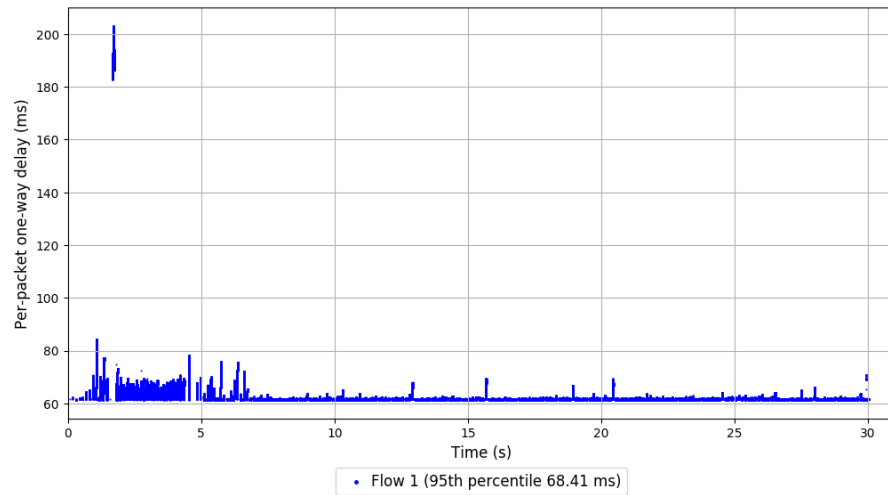
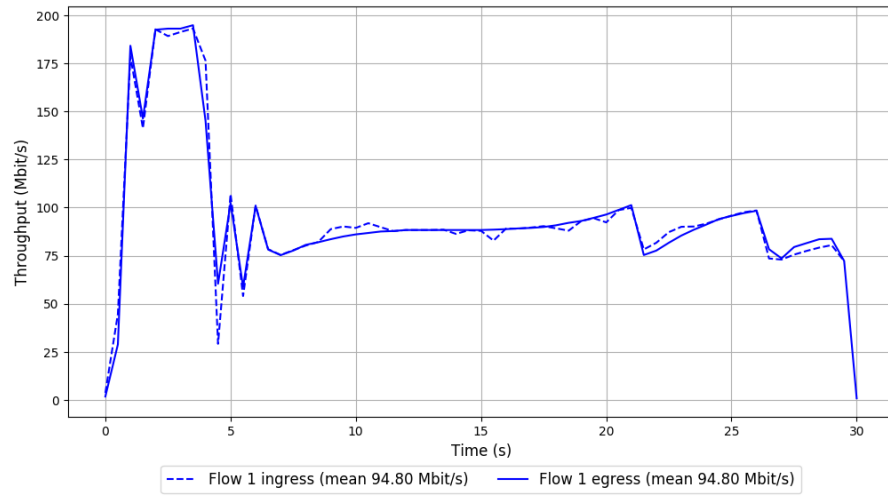
-- Flow 1:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 68.409 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 10:59:16

End at: 2017-09-18 10:59:46

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 62.379 ms

Loss rate: 0.07%

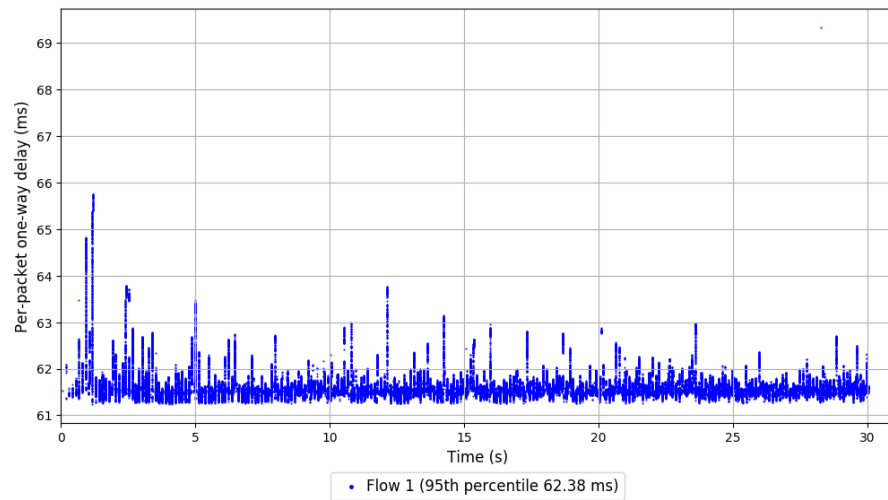
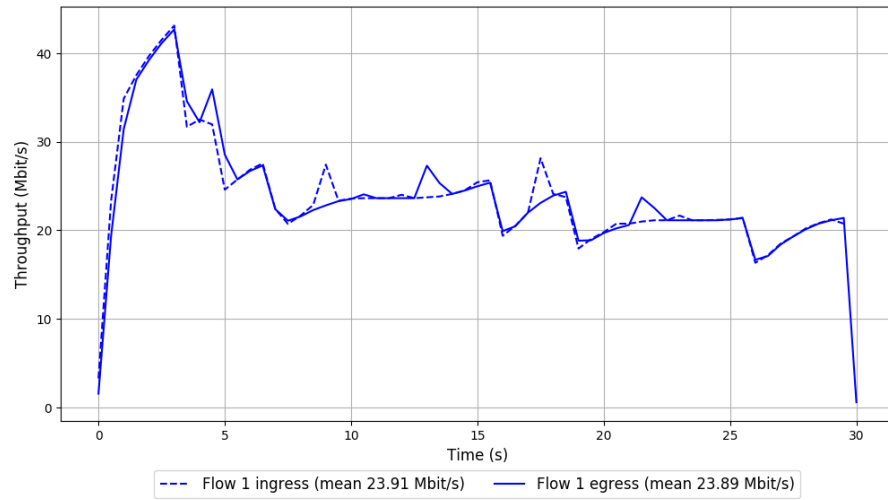
-- Flow 1:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 62.379 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-18 11:10:42

End at: 2017-09-18 11:11:12

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.53 Mbit/s

95th percentile per-packet one-way delay: 66.284 ms

Loss rate: 0.00%

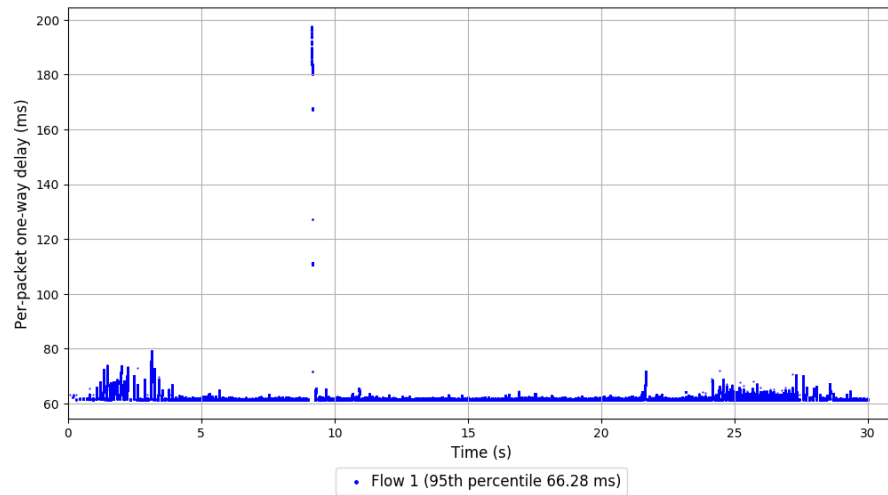
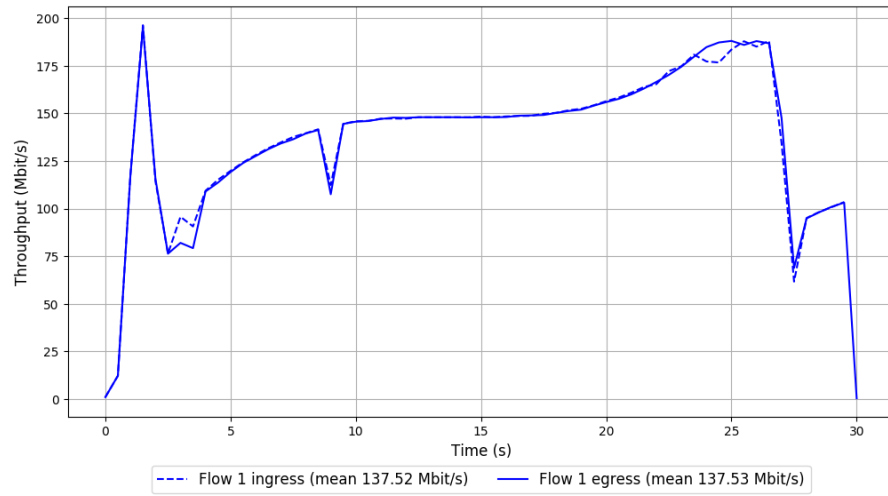
-- Flow 1:

Average throughput: 137.53 Mbit/s

95th percentile per-packet one-way delay: 66.284 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-18 11:22:10

End at: 2017-09-18 11:22:40

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.22 Mbit/s

95th percentile per-packet one-way delay: 65.717 ms

Loss rate: 0.02%

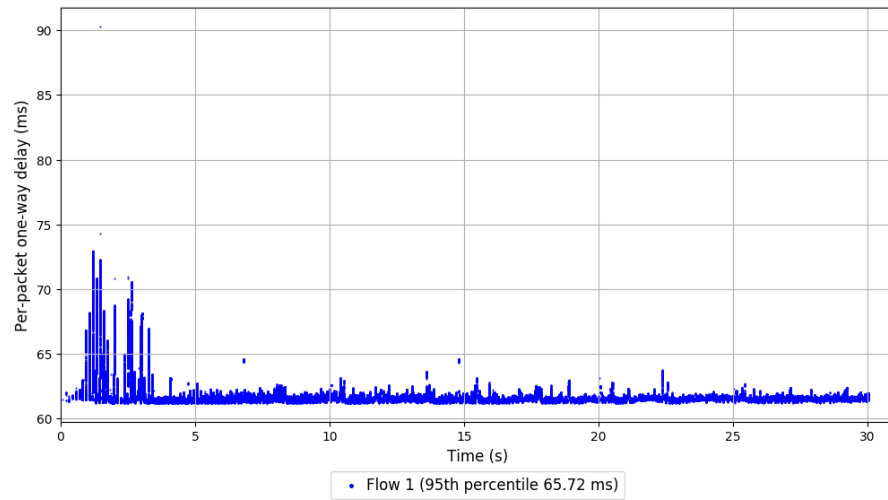
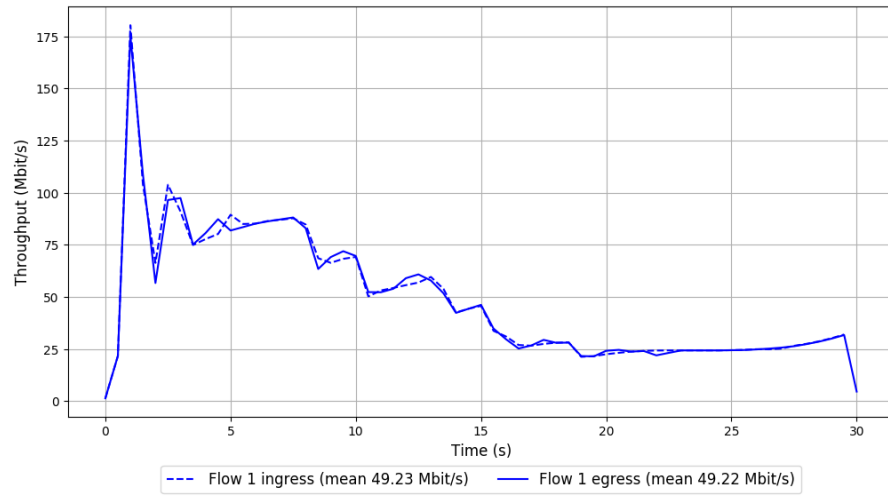
-- Flow 1:

Average throughput: 49.22 Mbit/s

95th percentile per-packet one-way delay: 65.717 ms

Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 11:33:26

End at: 2017-09-18 11:33:56

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 63.130 ms

Loss rate: 0.01%

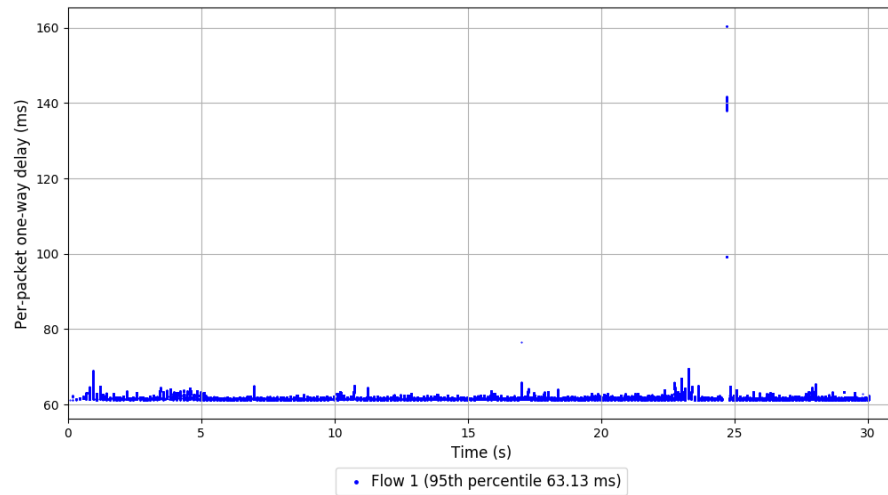
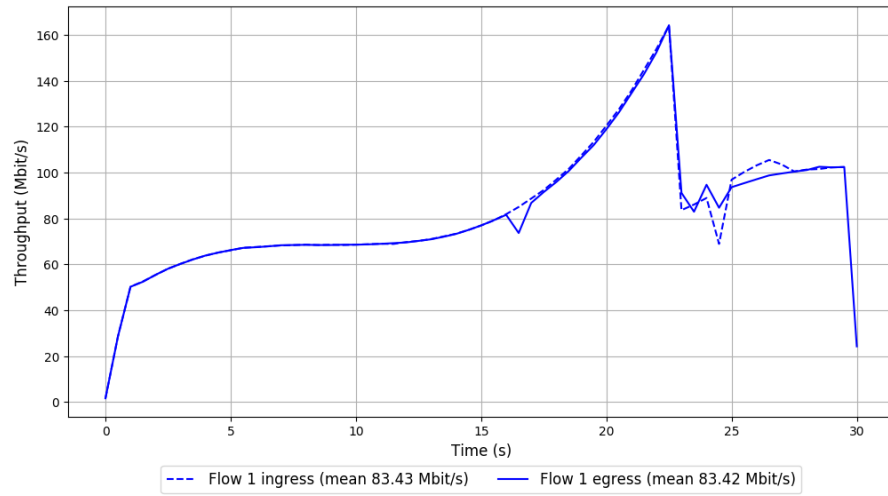
-- Flow 1:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 63.130 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-18 11:44:52

End at: 2017-09-18 11:45:22

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.19 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.01%

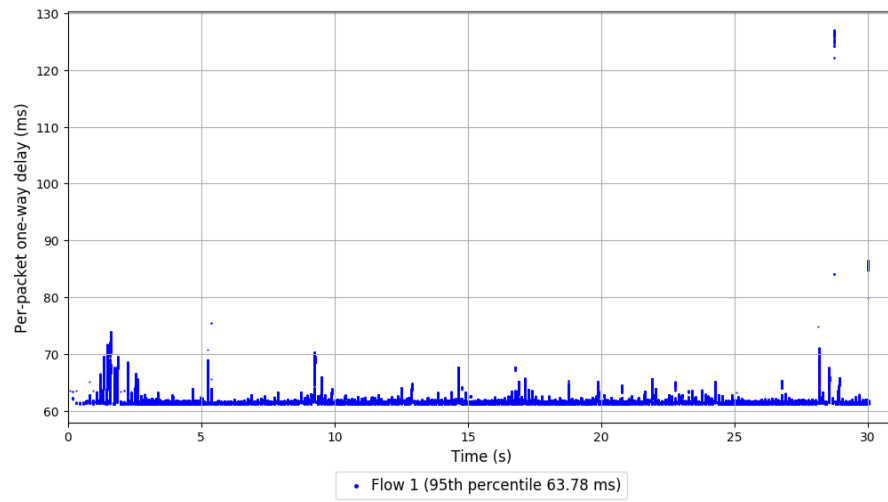
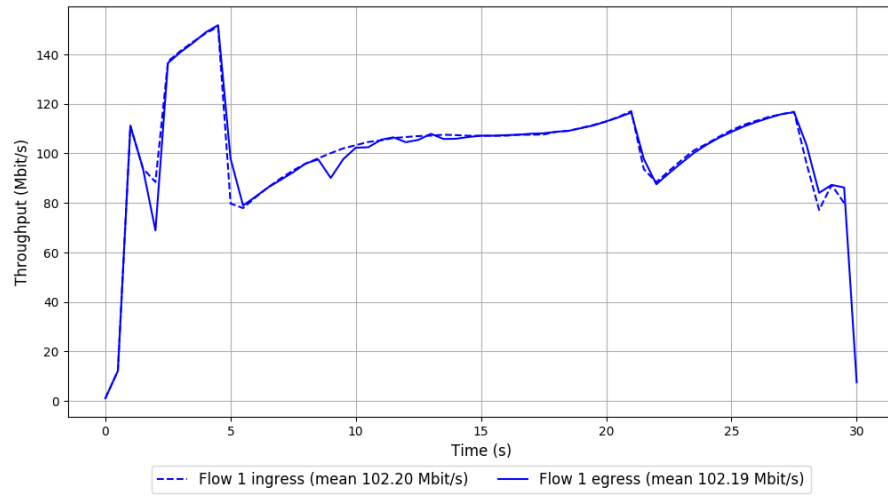
-- Flow 1:

Average throughput: 102.19 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 11:56:20

End at: 2017-09-18 11:56:50

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 62.538 ms

Loss rate: 0.01%

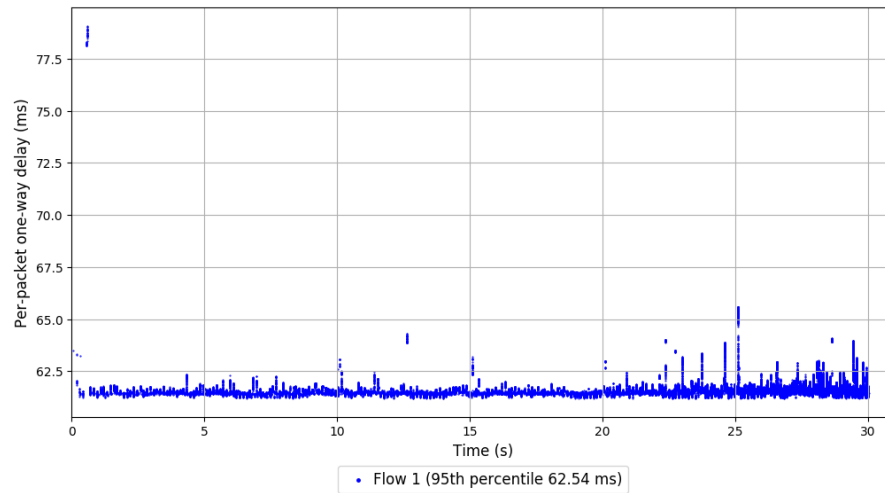
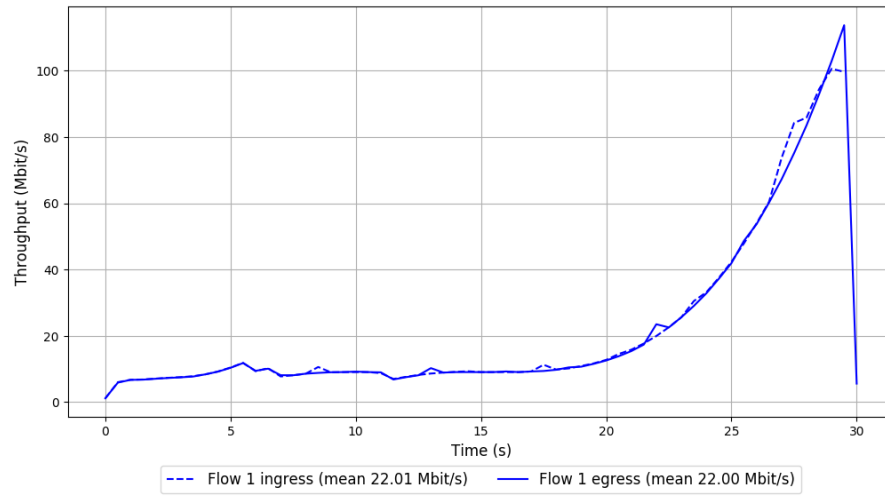
-- Flow 1:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 62.538 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 12:07:10

End at: 2017-09-18 12:07:40

Below is generated by plot.py at 2017-09-18 13:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 62.751 ms

Loss rate: 0.01%

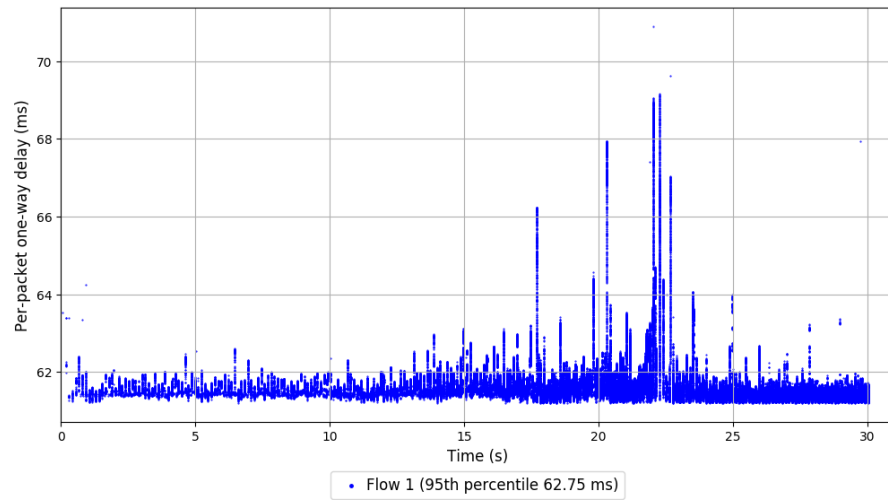
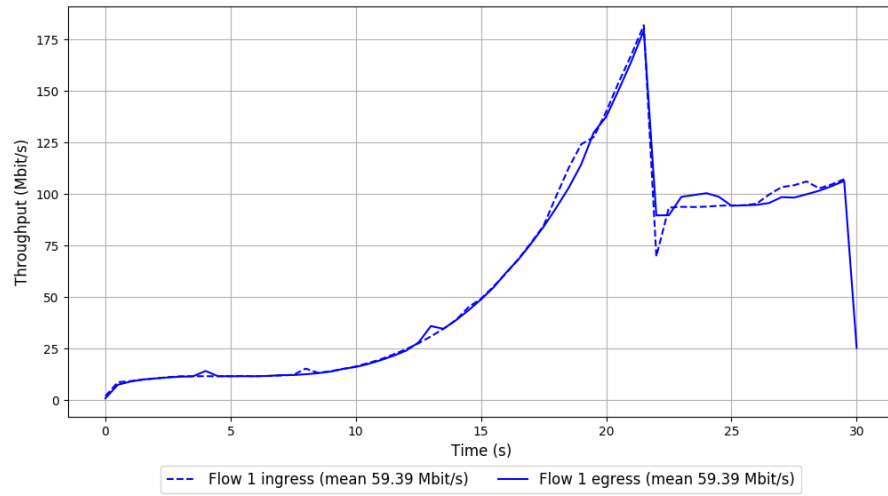
-- Flow 1:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 62.751 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

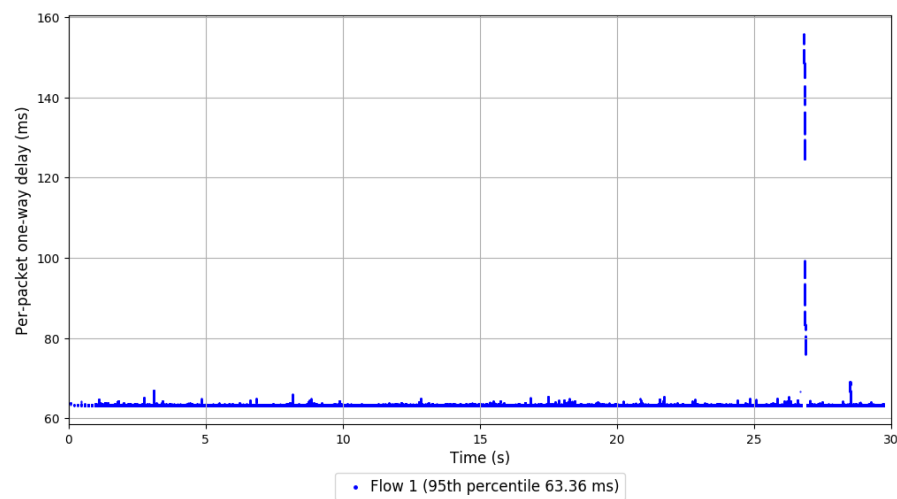
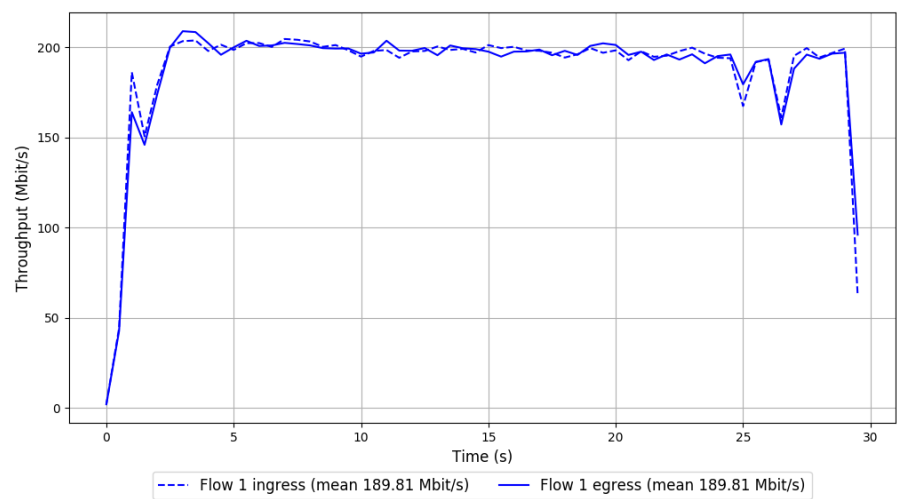


```
Run 1: Statistics of Indigo

Start at: 2017-09-18 10:23:24
End at: 2017-09-18 10:23:54

# Below is generated by plot.py at 2017-09-18 13:33:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.81 Mbit/s
95th percentile per-packet one-way delay: 63.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.81 Mbit/s
95th percentile per-packet one-way delay: 63.362 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-18 10:34:47

End at: 2017-09-18 10:35:17

Below is generated by plot.py at 2017-09-18 13:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.50 Mbit/s

95th percentile per-packet one-way delay: 61.544 ms

Loss rate: 0.00%

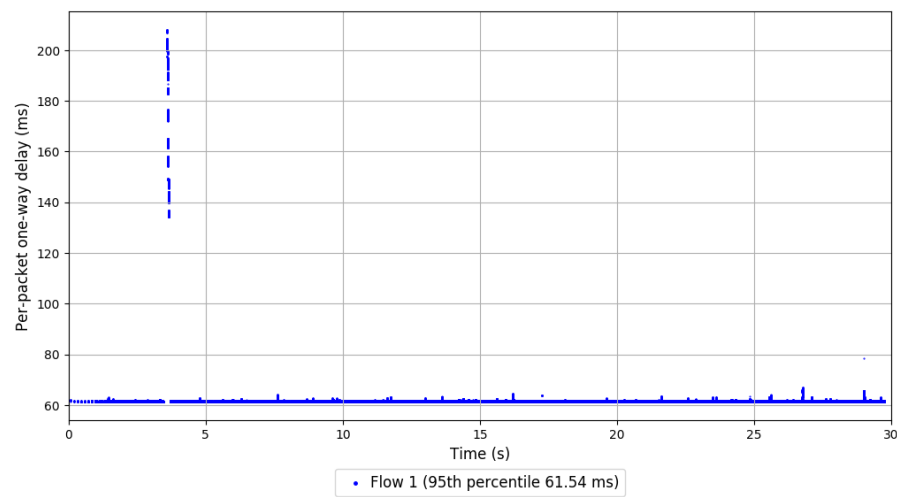
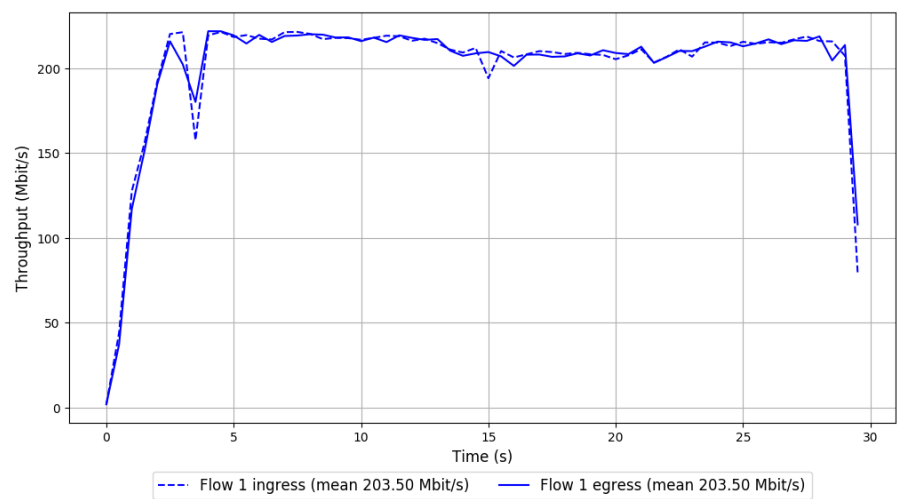
-- Flow 1:

Average throughput: 203.50 Mbit/s

95th percentile per-packet one-way delay: 61.544 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-18 10:46:21

End at: 2017-09-18 10:46:51

Below is generated by plot.py at 2017-09-18 13:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.46 Mbit/s

95th percentile per-packet one-way delay: 61.588 ms

Loss rate: 0.00%

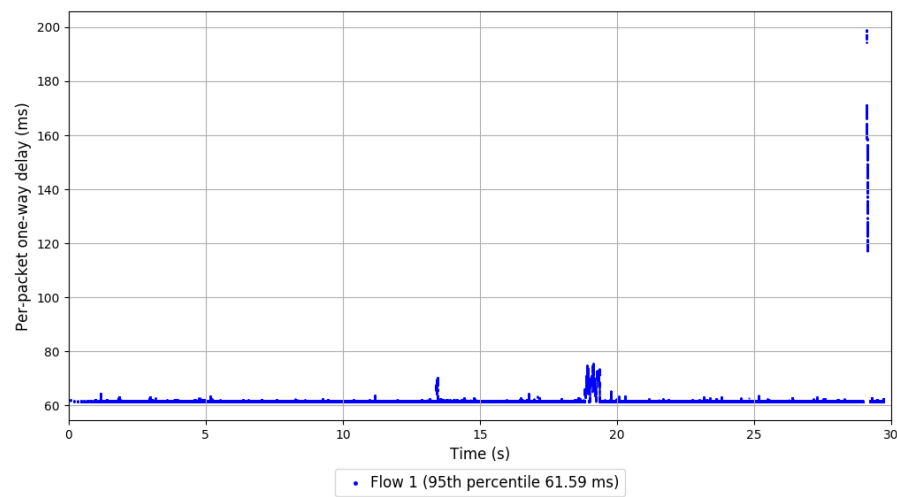
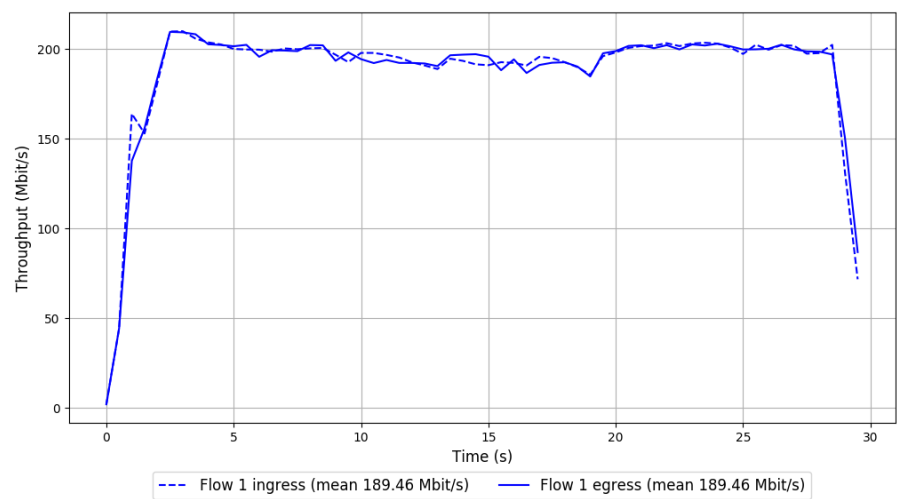
-- Flow 1:

Average throughput: 189.46 Mbit/s

95th percentile per-packet one-way delay: 61.588 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-18 10:57:48

End at: 2017-09-18 10:58:18

Below is generated by plot.py at 2017-09-18 13:34:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.57 Mbit/s

95th percentile per-packet one-way delay: 61.485 ms

Loss rate: 0.00%

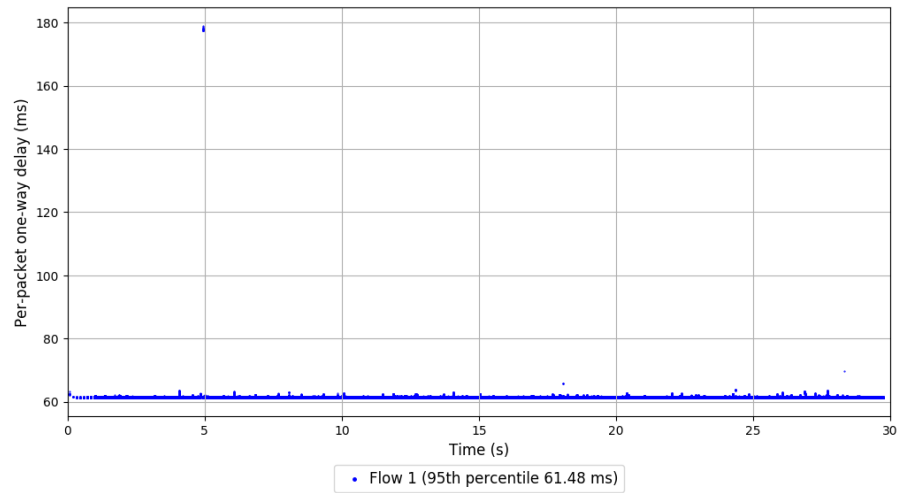
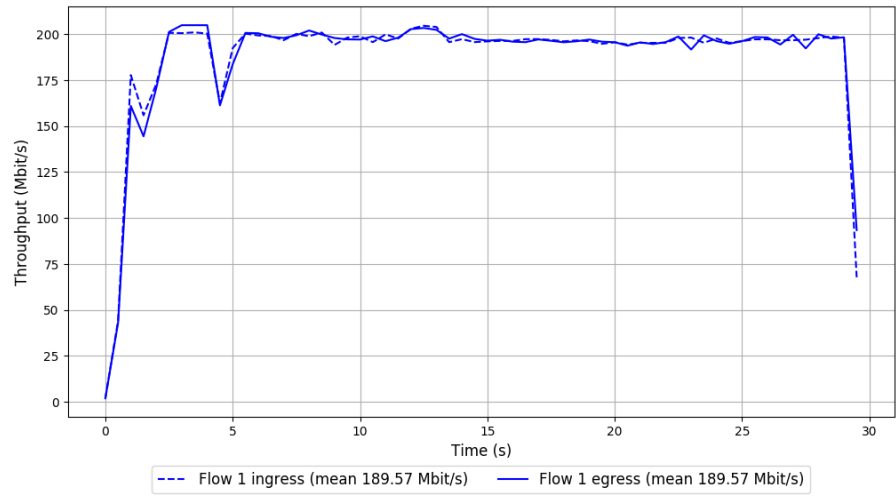
-- Flow 1:

Average throughput: 189.57 Mbit/s

95th percentile per-packet one-way delay: 61.485 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-18 11:09:13

End at: 2017-09-18 11:09:43

Below is generated by plot.py at 2017-09-18 13:34:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.18 Mbit/s

95th percentile per-packet one-way delay: 61.446 ms

Loss rate: 0.00%

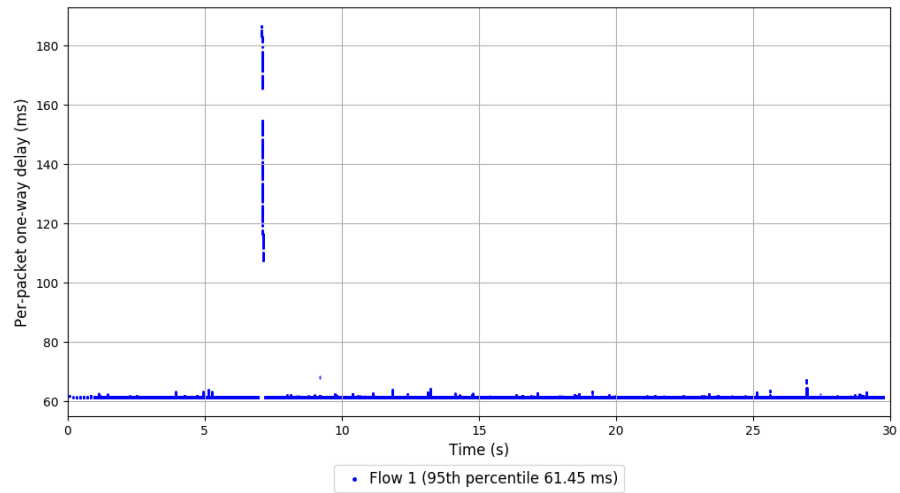
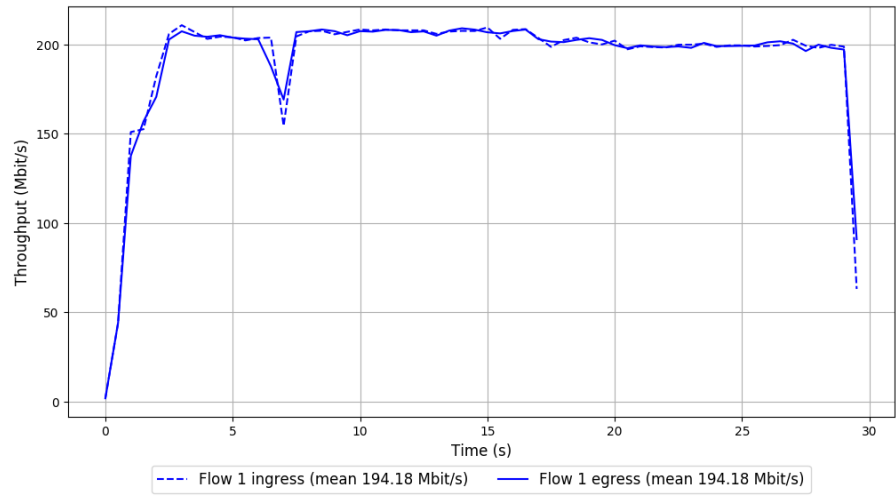
-- Flow 1:

Average throughput: 194.18 Mbit/s

95th percentile per-packet one-way delay: 61.446 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-18 11:20:42

End at: 2017-09-18 11:21:12

Below is generated by plot.py at 2017-09-18 13:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.06 Mbit/s

95th percentile per-packet one-way delay: 61.432 ms

Loss rate: 0.00%

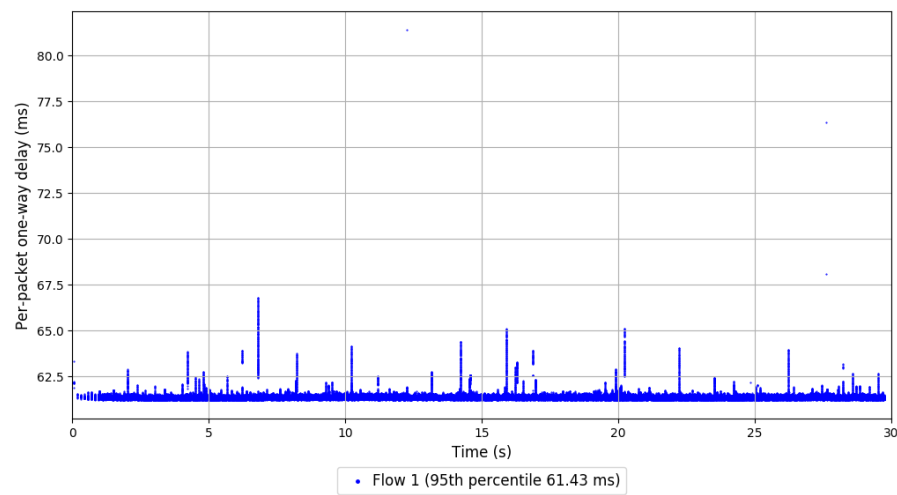
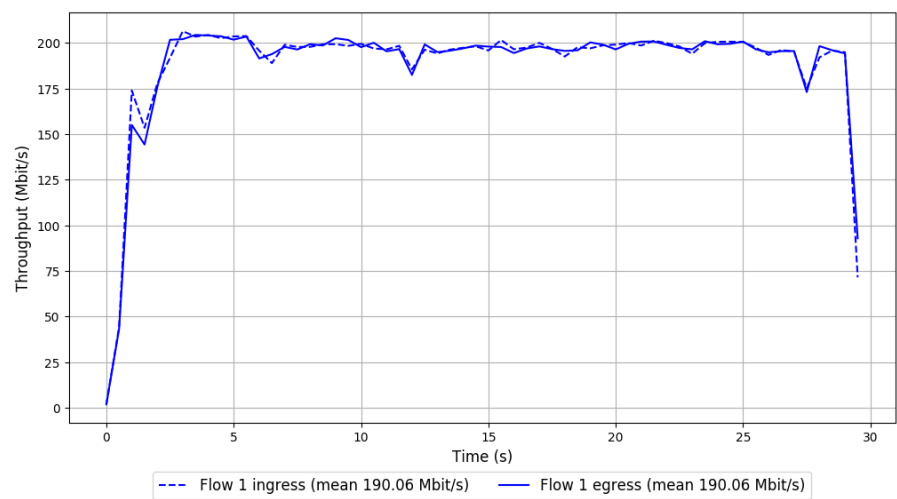
-- Flow 1:

Average throughput: 190.06 Mbit/s

95th percentile per-packet one-way delay: 61.432 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-18 11:31:58

End at: 2017-09-18 11:32:28

Below is generated by plot.py at 2017-09-18 13:34:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.41 Mbit/s

95th percentile per-packet one-way delay: 61.442 ms

Loss rate: 0.00%

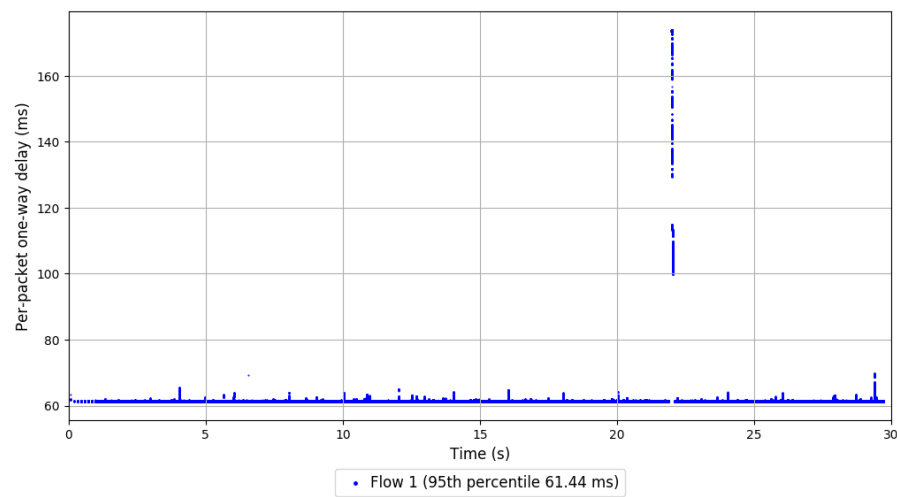
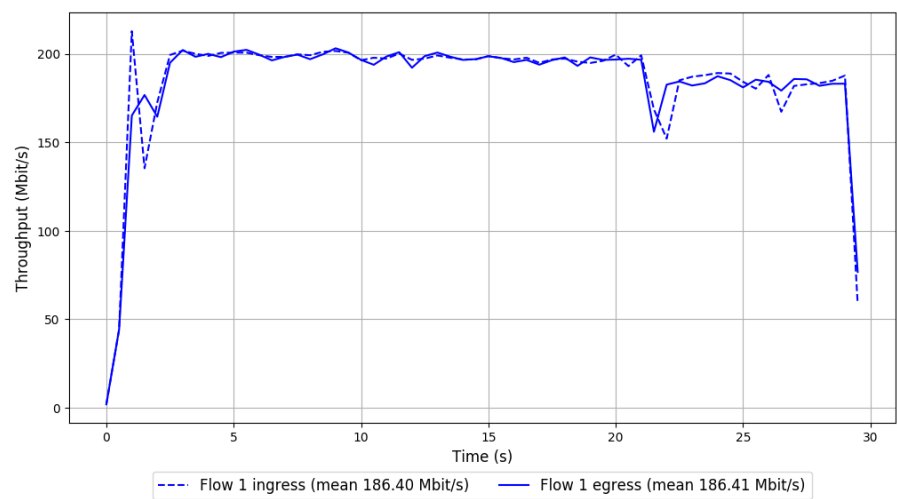
-- Flow 1:

Average throughput: 186.41 Mbit/s

95th percentile per-packet one-way delay: 61.442 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-18 11:43:25

End at: 2017-09-18 11:43:55

Below is generated by plot.py at 2017-09-18 13:36:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.14 Mbit/s

95th percentile per-packet one-way delay: 61.449 ms

Loss rate: 0.00%

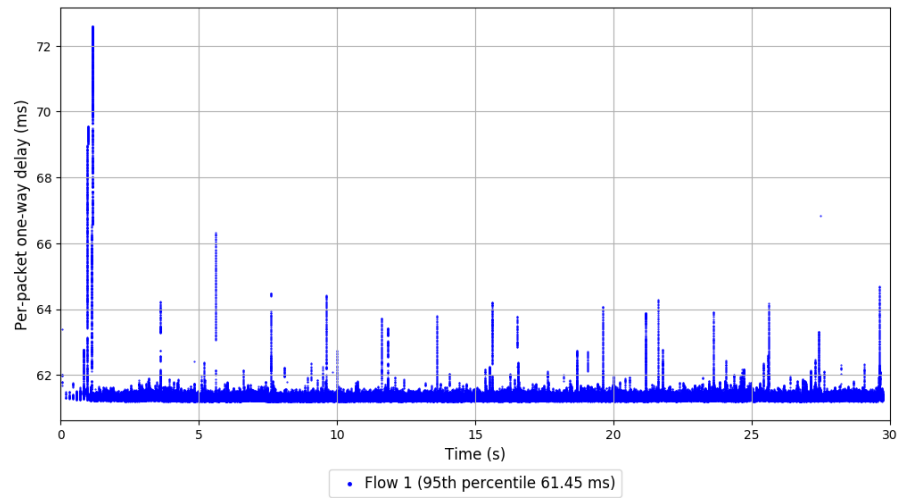
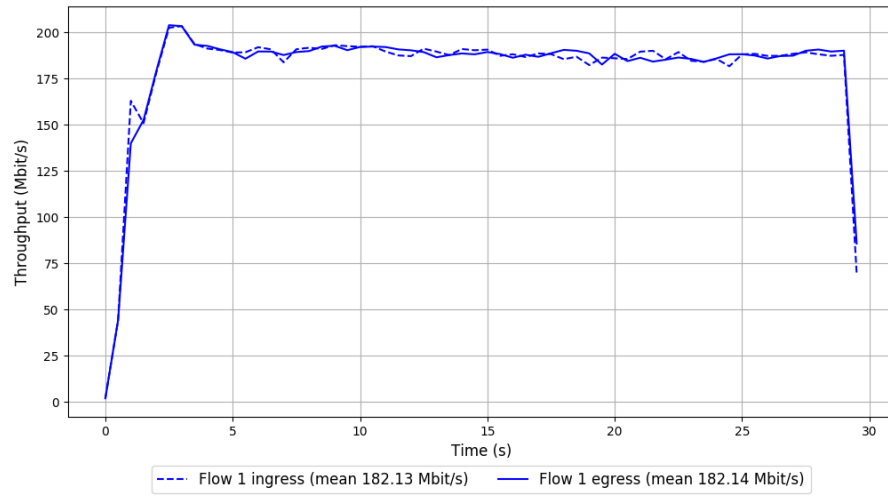
-- Flow 1:

Average throughput: 182.14 Mbit/s

95th percentile per-packet one-way delay: 61.449 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-18 11:54:52

End at: 2017-09-18 11:55:22

Below is generated by plot.py at 2017-09-18 13:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.17 Mbit/s

95th percentile per-packet one-way delay: 61.426 ms

Loss rate: 0.00%

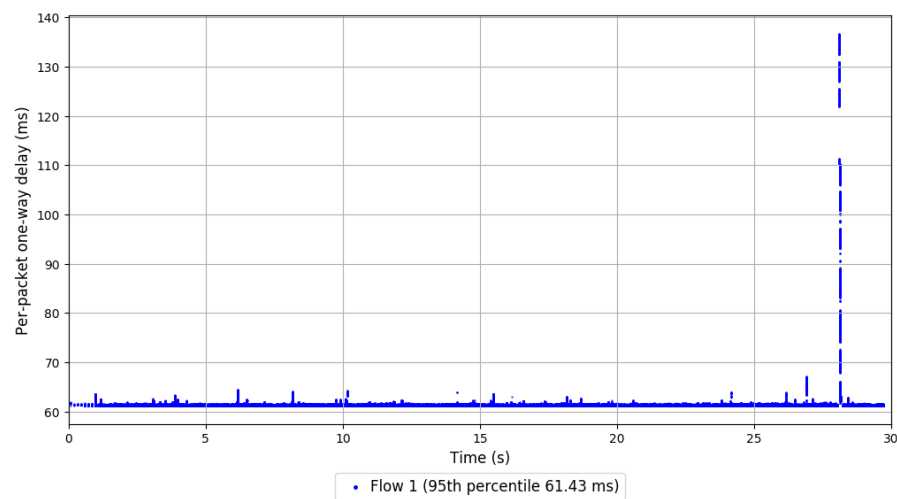
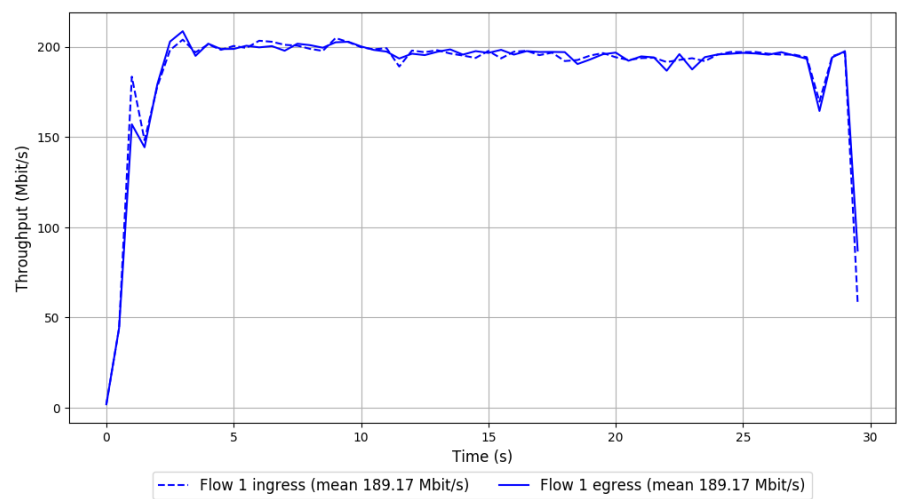
-- Flow 1:

Average throughput: 189.17 Mbit/s

95th percentile per-packet one-way delay: 61.426 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-18 12:05:42

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

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.14 Mbit/s

95th percentile per-packet one-way delay: 61.430 ms

Loss rate: 0.00%

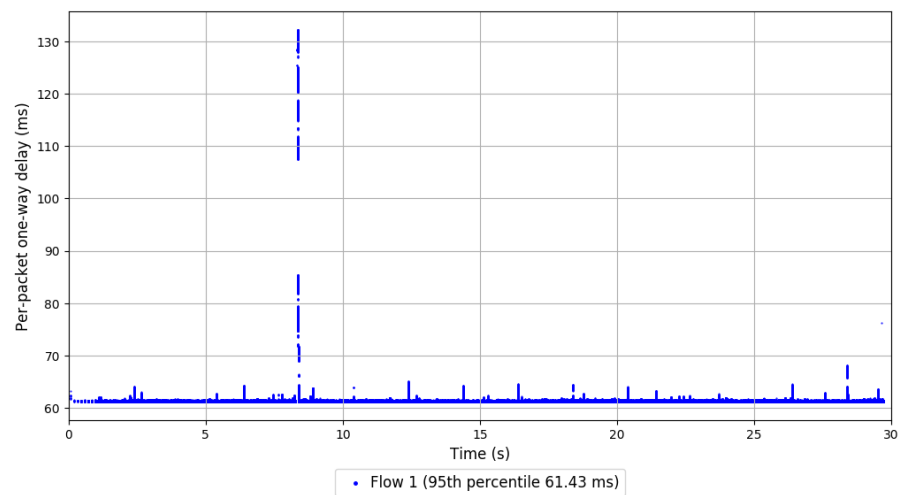
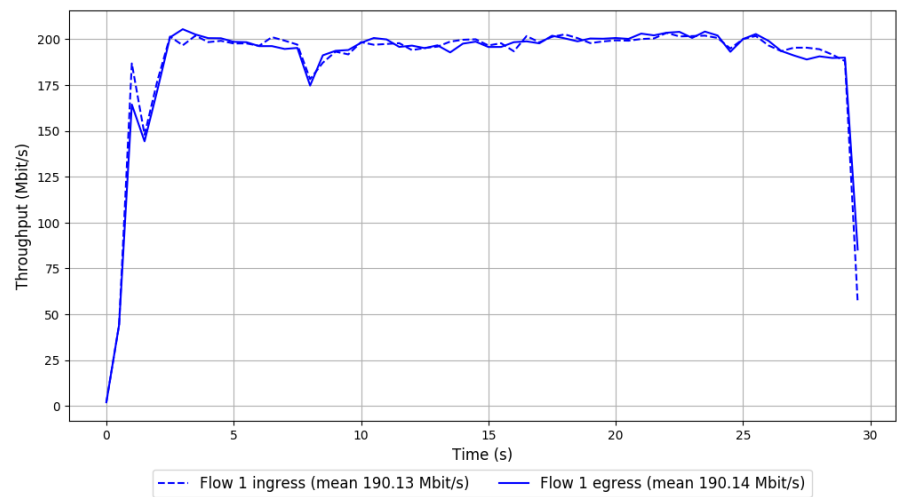
-- Flow 1:

Average throughput: 190.14 Mbit/s

95th percentile per-packet one-way delay: 61.430 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

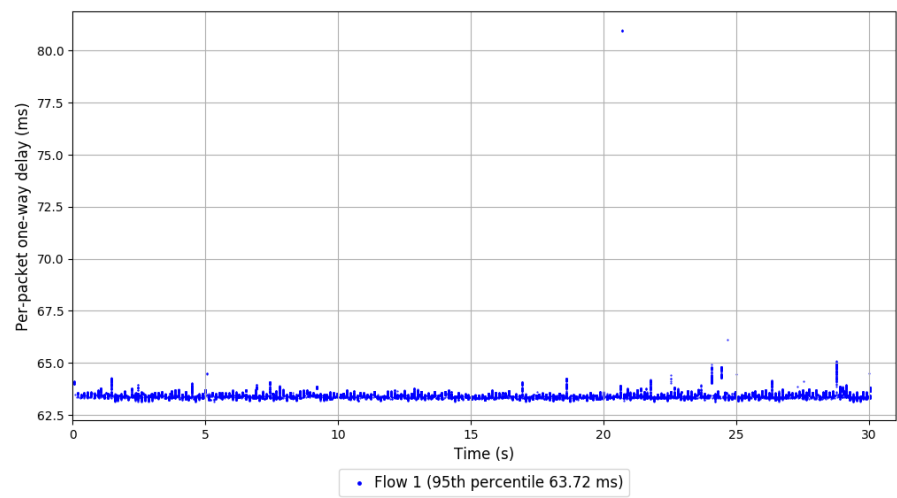
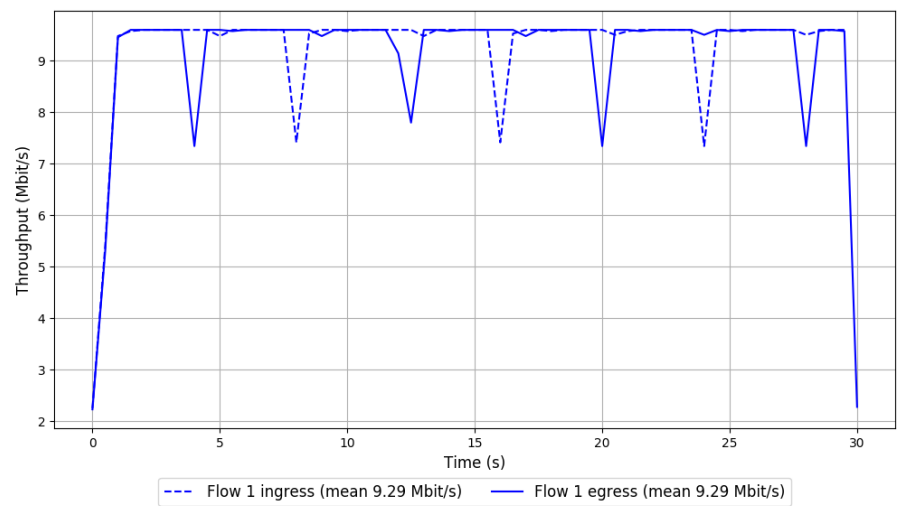


```
Run 1: Statistics of KohoCC

Start at: 2017-09-18 10:26:30
End at: 2017-09-18 10:27:00

# Below is generated by plot.py at 2017-09-18 13:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 63.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 63.722 ms
Loss rate: 0.00%
```

Run 1: Report of KohoCC — Data Link

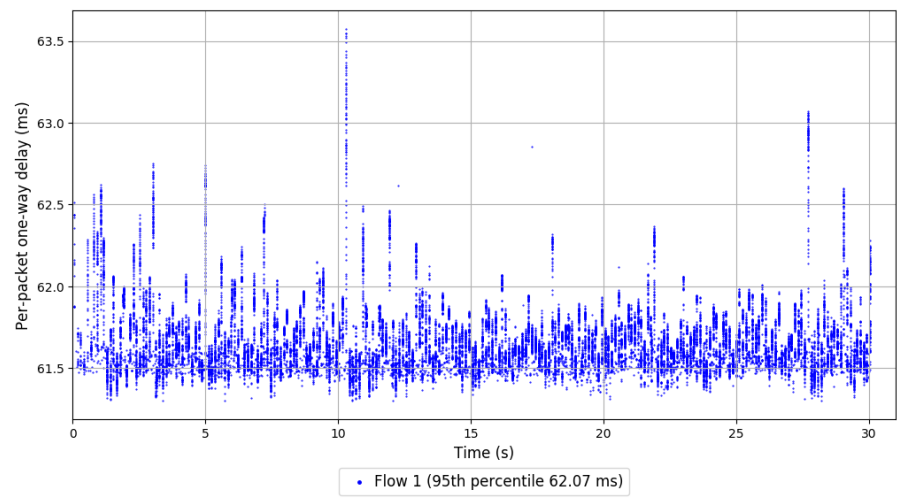
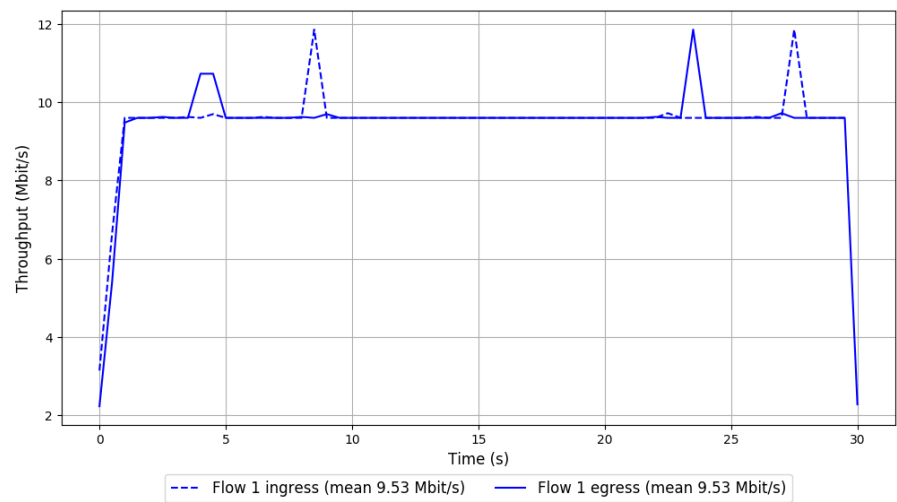


```
Run 2: Statistics of KohoCC

Start at: 2017-09-18 10:37:59
End at: 2017-09-18 10:38:29

# Below is generated by plot.py at 2017-09-18 13:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 62.068 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 62.068 ms
Loss rate: 0.00%
```

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-09-18 10:49:30

End at: 2017-09-18 10:50:01

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 62.085 ms

Loss rate: 0.00%

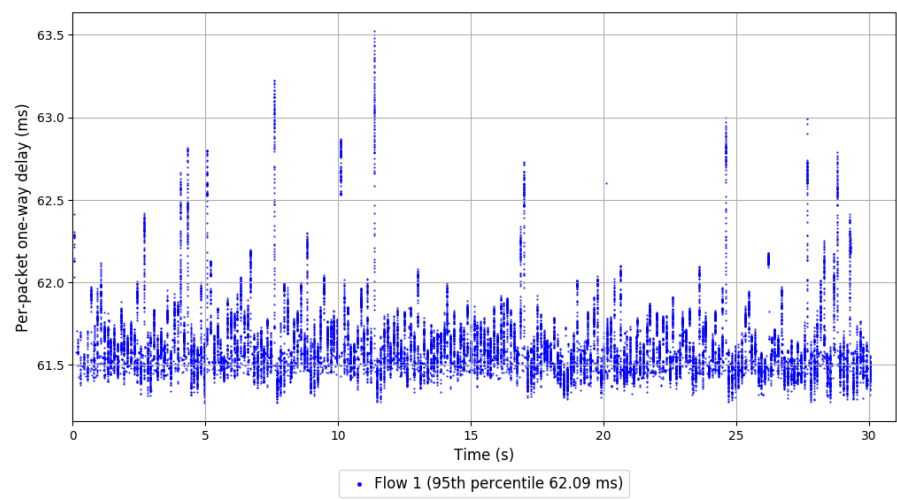
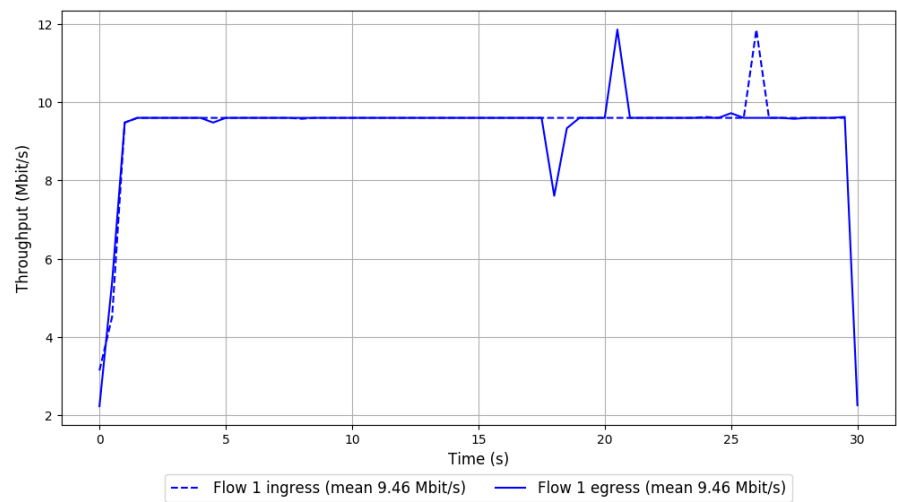
-- Flow 1:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 62.085 ms

Loss rate: 0.00%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-09-18 11:00:53

End at: 2017-09-18 11:01:23

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 61.768 ms

Loss rate: 0.00%

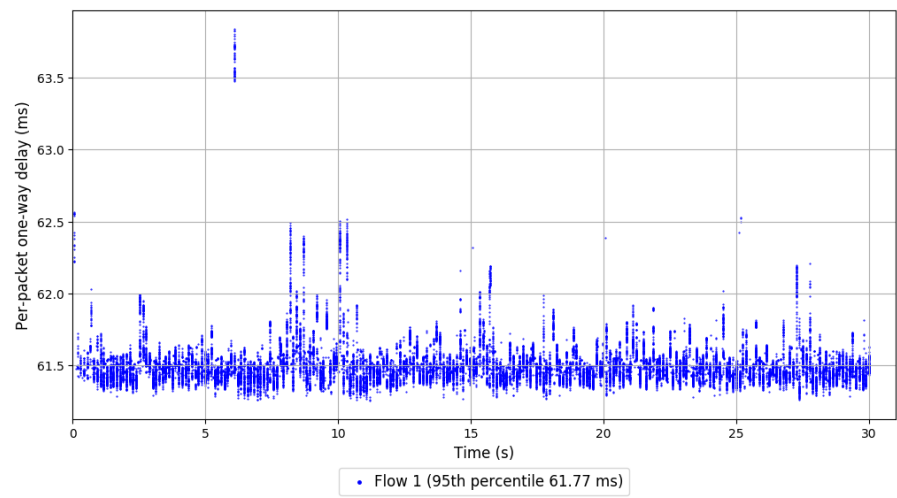
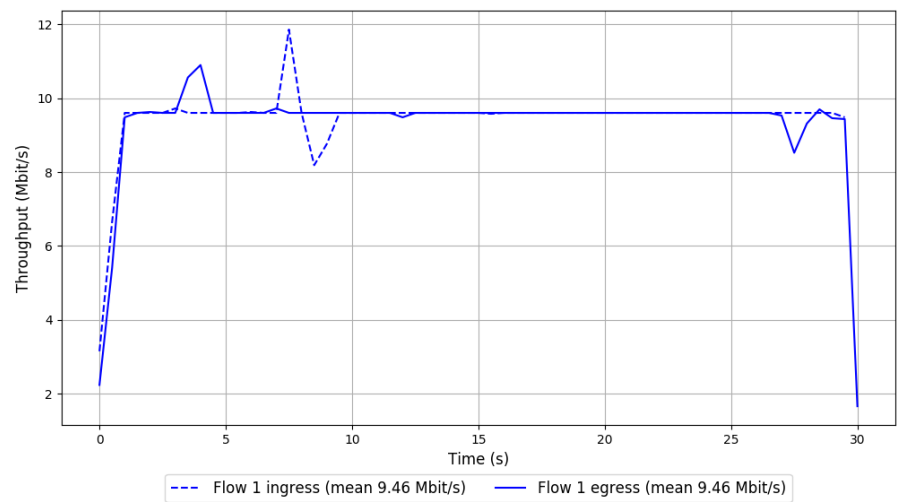
-- Flow 1:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 61.768 ms

Loss rate: 0.00%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-09-18 11:12:27

End at: 2017-09-18 11:12:57

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 61.751 ms

Loss rate: 0.00%

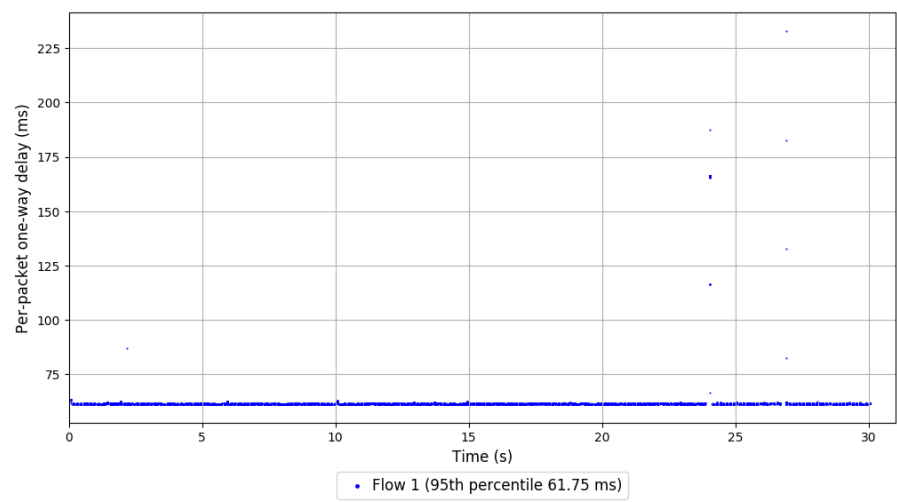
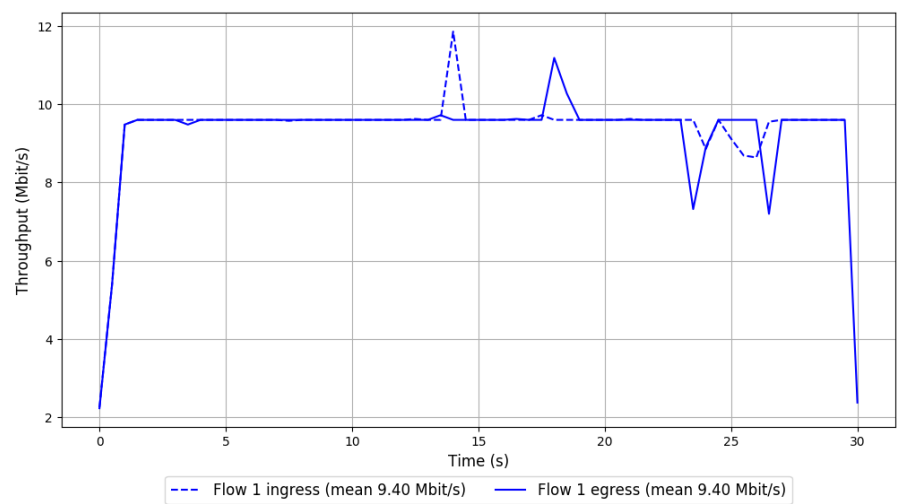
-- Flow 1:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 61.751 ms

Loss rate: 0.00%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-09-18 11:23:50

End at: 2017-09-18 11:24:20

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 62.259 ms

Loss rate: 0.01%

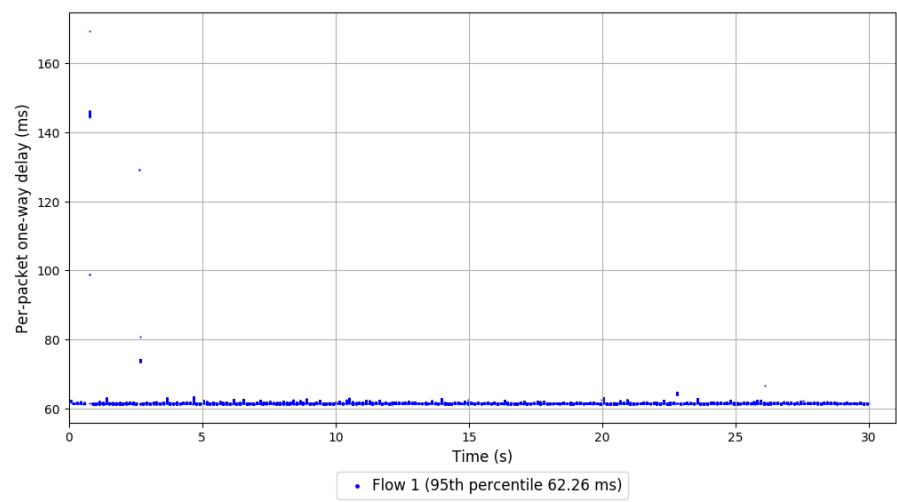
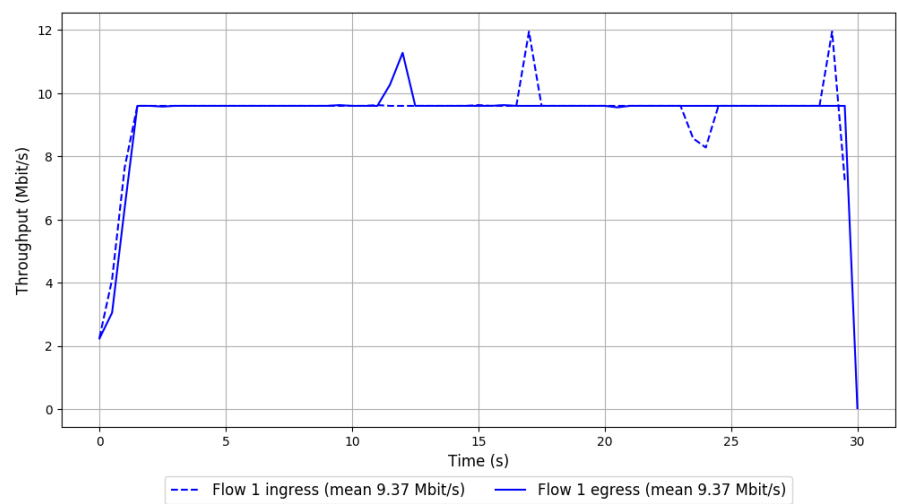
-- Flow 1:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 62.259 ms

Loss rate: 0.01%

Run 6: Report of KohoCC — Data Link

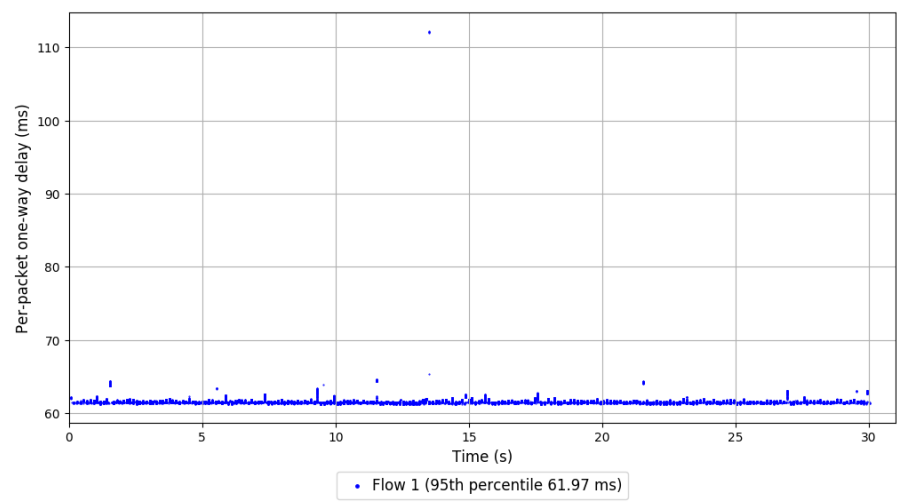
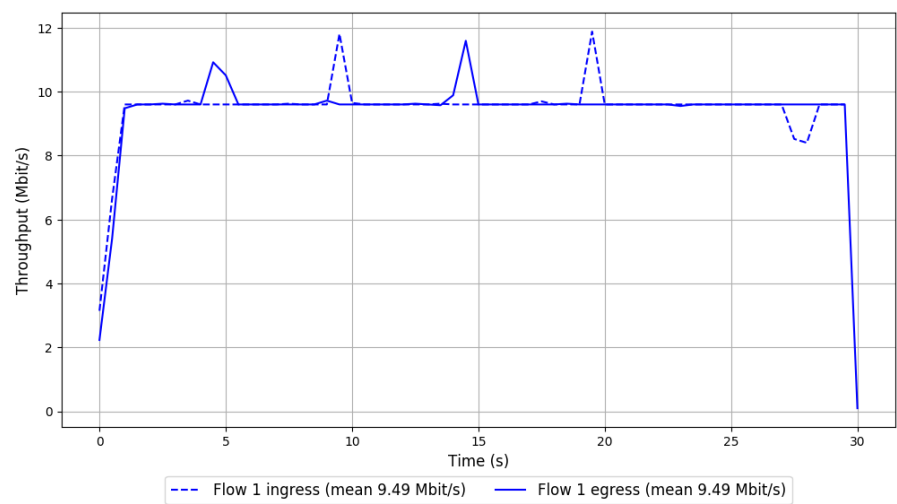


```
Run 7: Statistics of KohoCC

Start at: 2017-09-18 11:35:07
End at: 2017-09-18 11:35:37

# Below is generated by plot.py at 2017-09-18 13:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 61.965 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 61.965 ms
Loss rate: 0.01%
```


Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-09-18 11:46:34

End at: 2017-09-18 11:47:04

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 62.039 ms

Loss rate: 0.01%

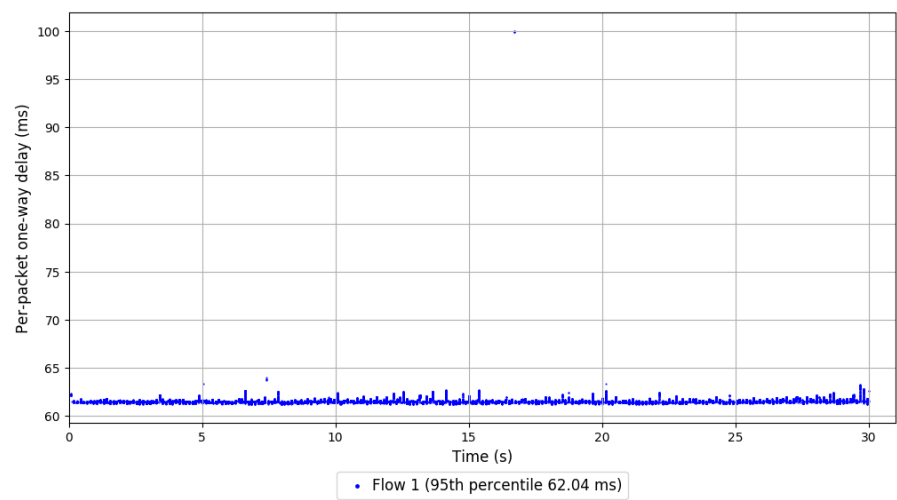
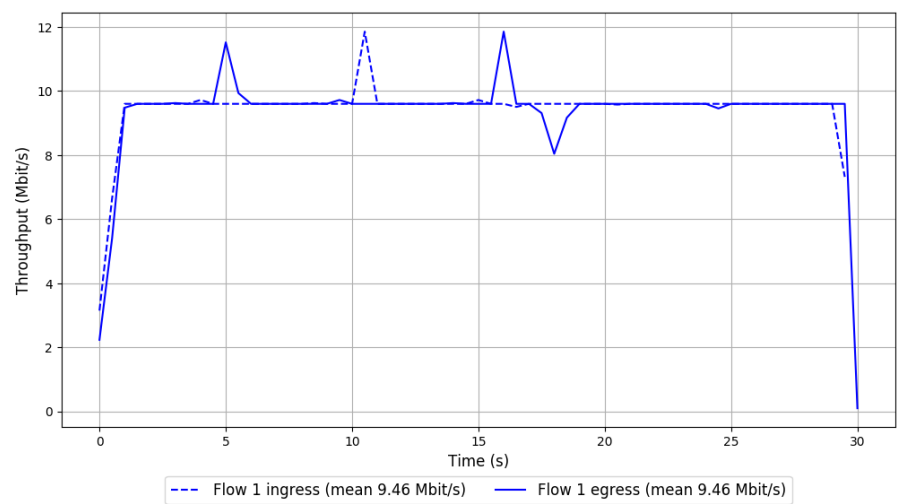
-- Flow 1:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 62.039 ms

Loss rate: 0.01%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-09-18 11:57:57

End at: 2017-09-18 11:58:27

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 62.030 ms

Loss rate: 0.00%

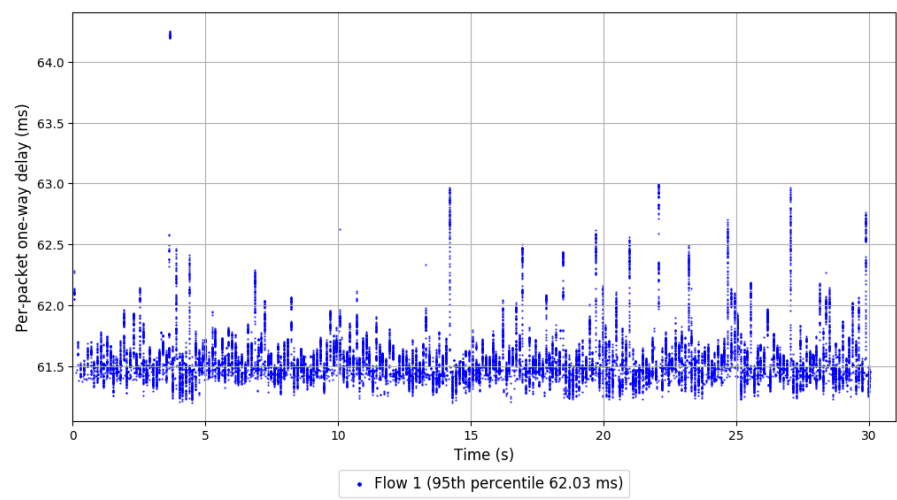
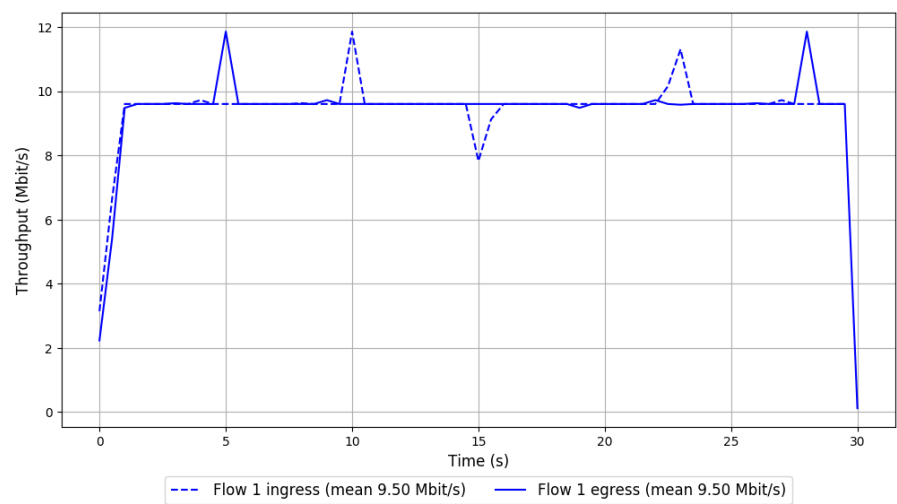
-- Flow 1:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 62.030 ms

Loss rate: 0.00%

Run 9: Report of KohoCC — Data Link

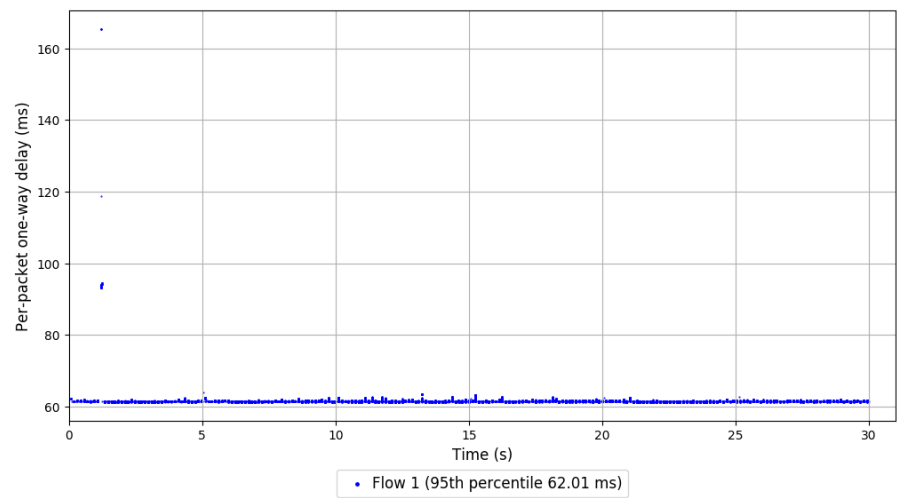
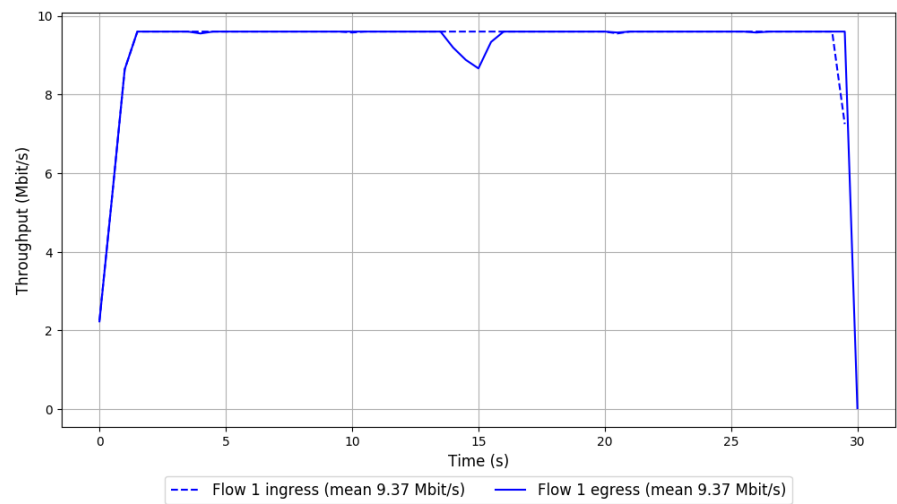


```
Run 10: Statistics of KohoCC

Start at: 2017-09-18 12:08:50
End at: 2017-09-18 12:09:20

# Below is generated by plot.py at 2017-09-18 13:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 62.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 62.008 ms
Loss rate: 0.00%
```

Run 10: Report of KohoCC — Data Link

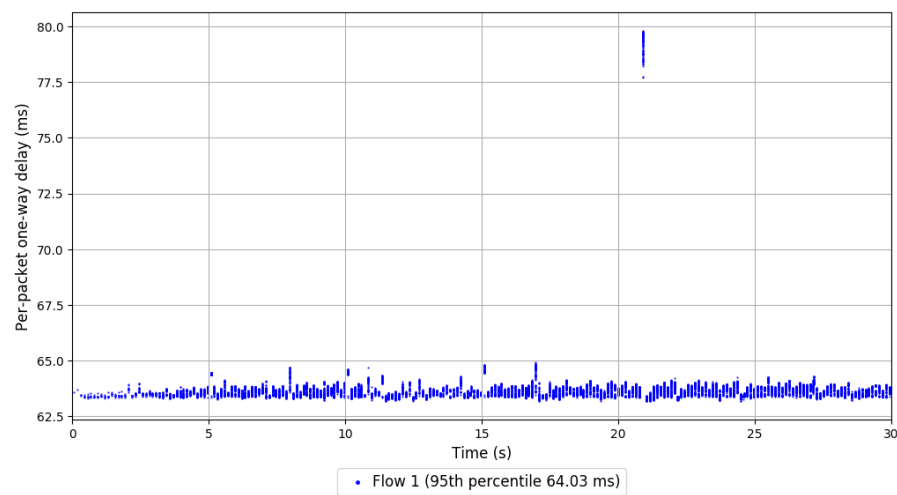
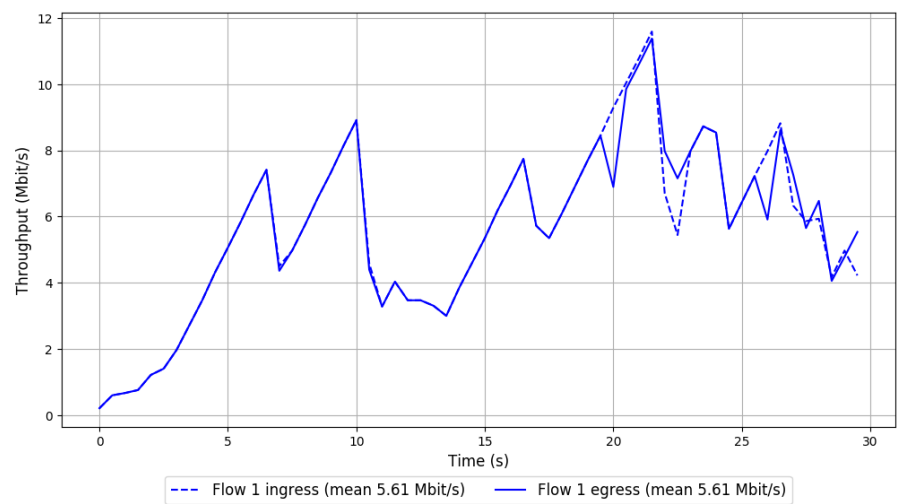


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-18 10:21:30
End at: 2017-09-18 10:22:00

# Below is generated by plot.py at 2017-09-18 13:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 64.025 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 64.025 ms
Loss rate: 0.10%
```


Run 1: Report of LEDBAT — Data Link

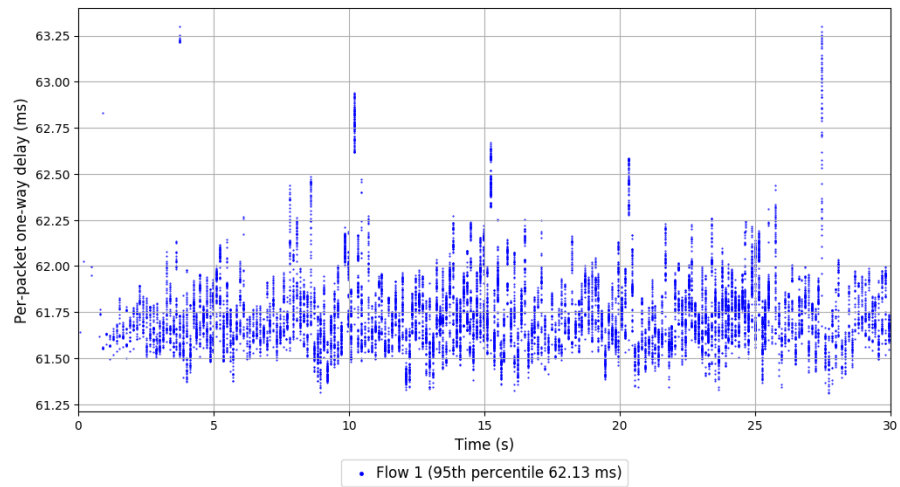
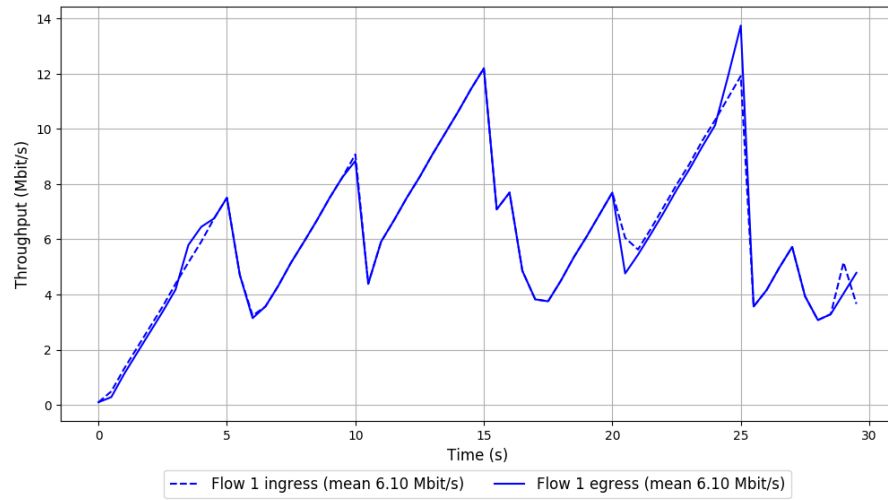


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-18 10:32:53
End at: 2017-09-18 10:33:23

# Below is generated by plot.py at 2017-09-18 13:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 62.128 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 62.128 ms
Loss rate: 0.10%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-18 10:44:27

End at: 2017-09-18 10:44:57

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 62.092 ms

Loss rate: 0.09%

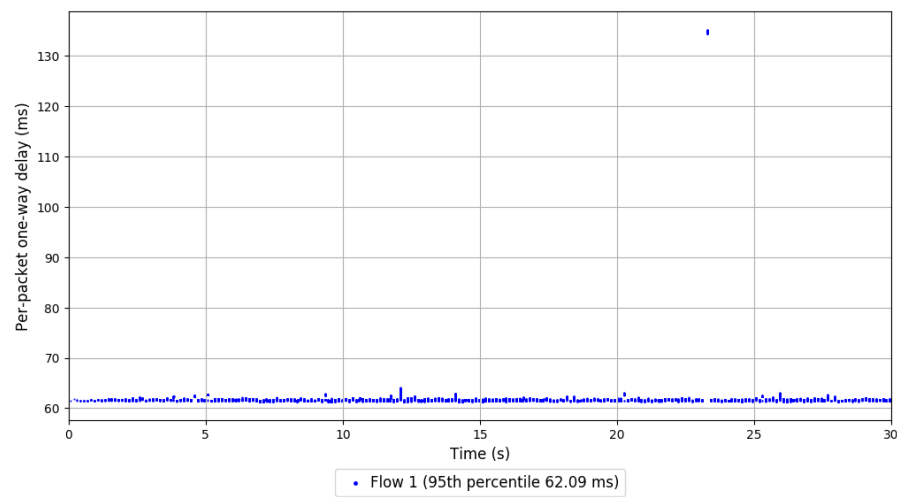
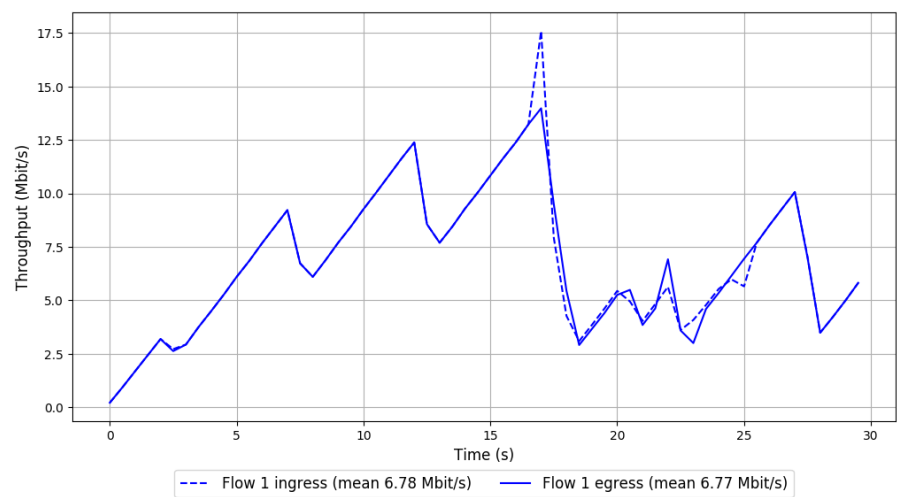
-- Flow 1:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 62.092 ms

Loss rate: 0.09%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-18 10:55:55

End at: 2017-09-18 10:56:25

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 62.110 ms

Loss rate: 0.07%

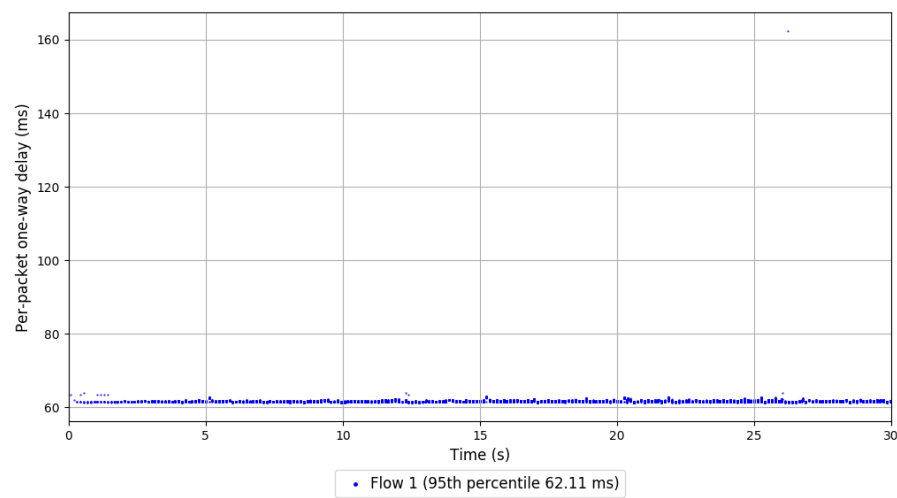
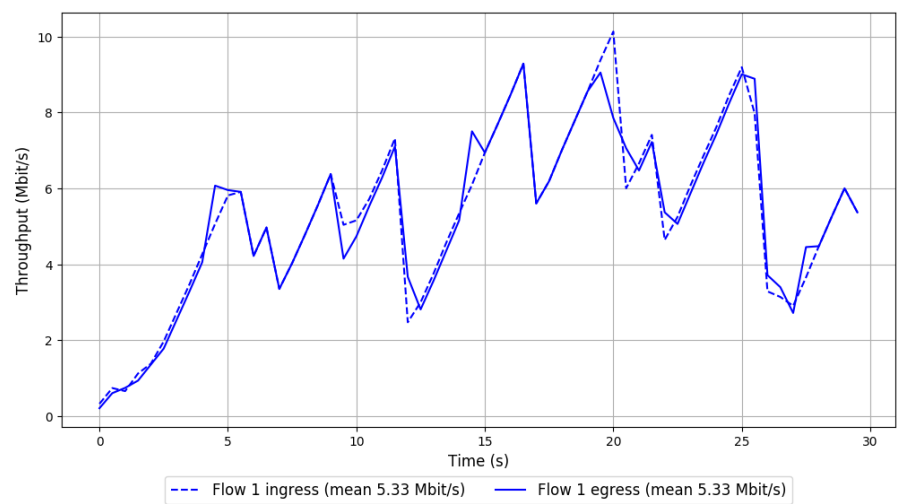
-- Flow 1:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 62.110 ms

Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-18 11:07:19

End at: 2017-09-18 11:07:49

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 62.214 ms

Loss rate: 0.14%

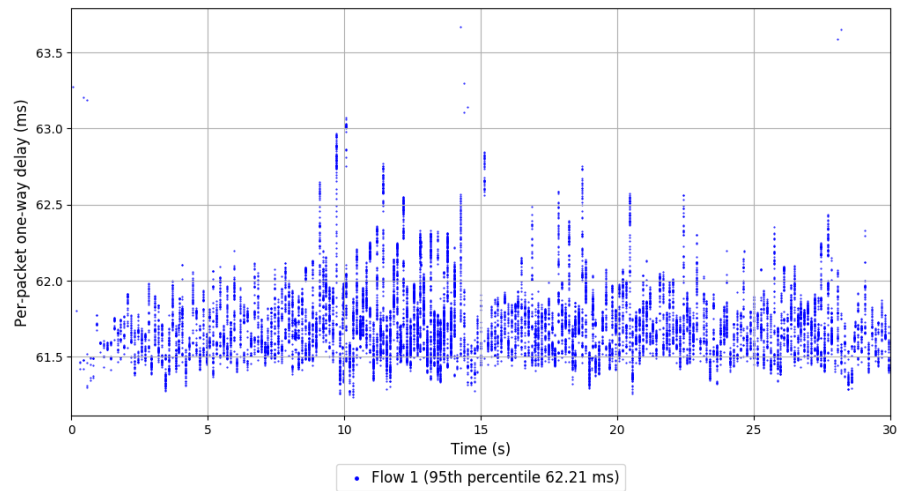
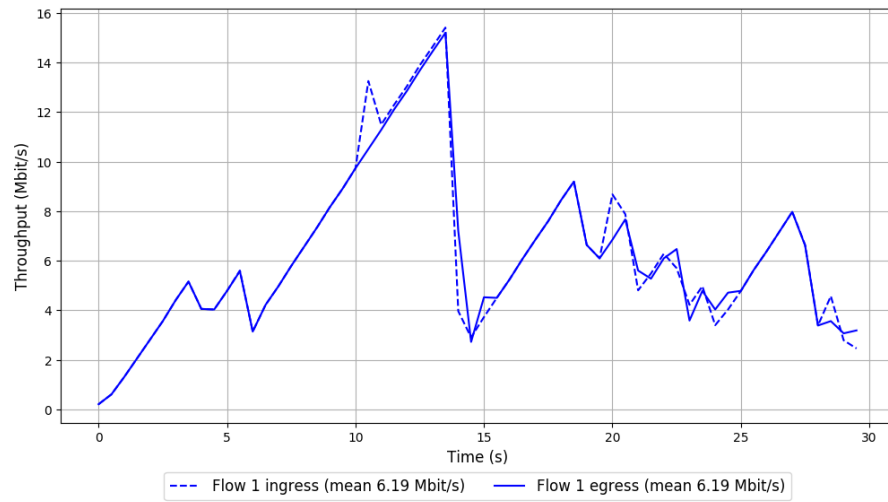
-- Flow 1:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 62.214 ms

Loss rate: 0.14%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-18 11:18:48

End at: 2017-09-18 11:19:18

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 62.375 ms

Loss rate: 0.04%

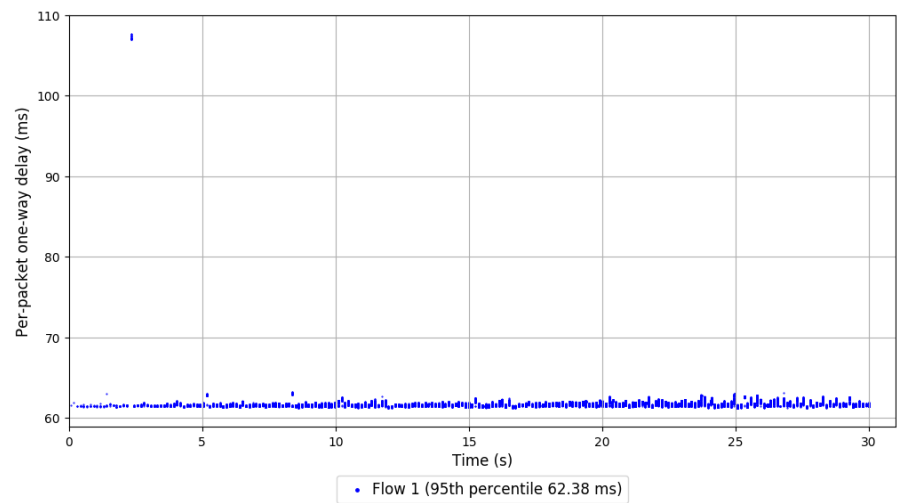
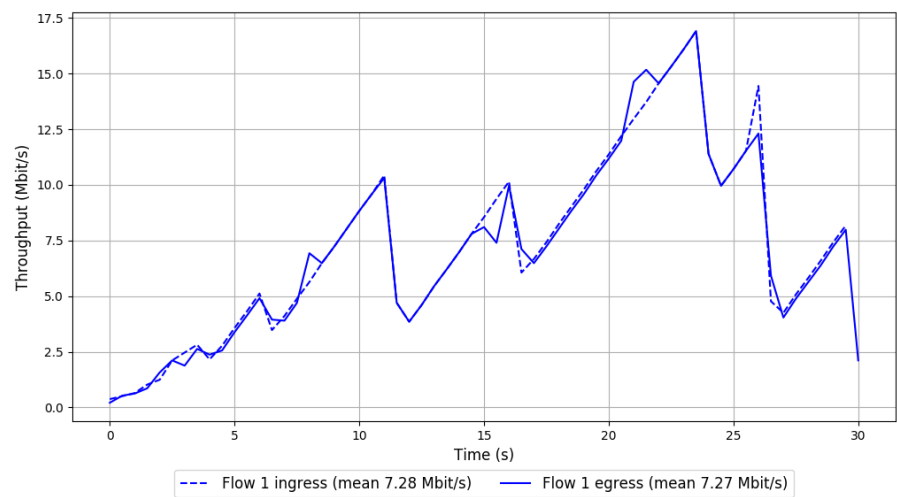
-- Flow 1:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 62.375 ms

Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-18 11:30:05

End at: 2017-09-18 11:30:35

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 62.094 ms

Loss rate: 0.08%

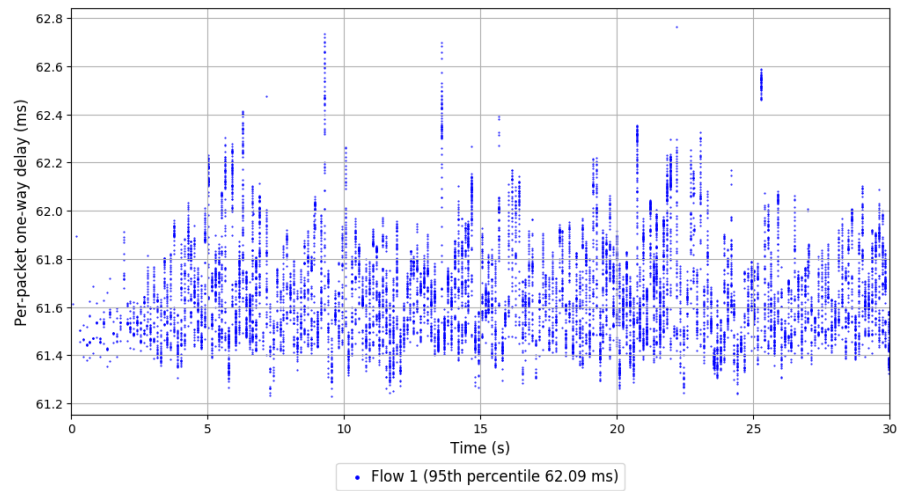
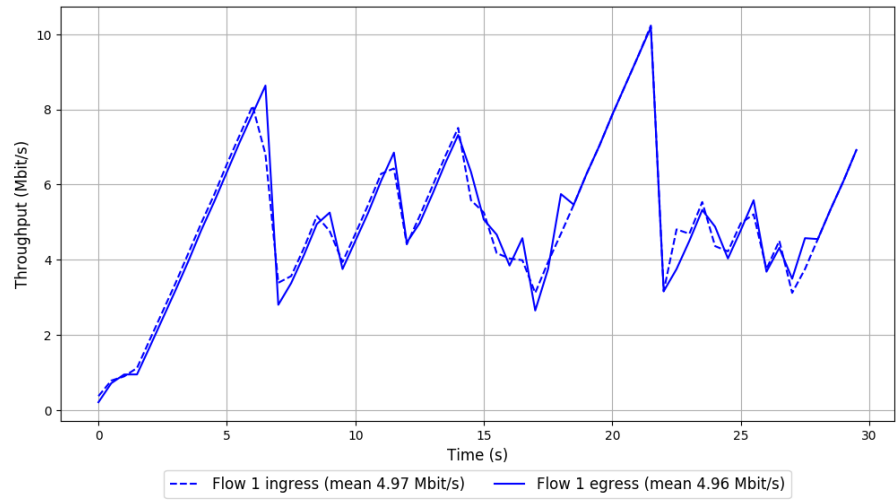
-- Flow 1:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 62.094 ms

Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-18 11:41:31

End at: 2017-09-18 11:42:01

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 62.368 ms

Loss rate: 0.12%

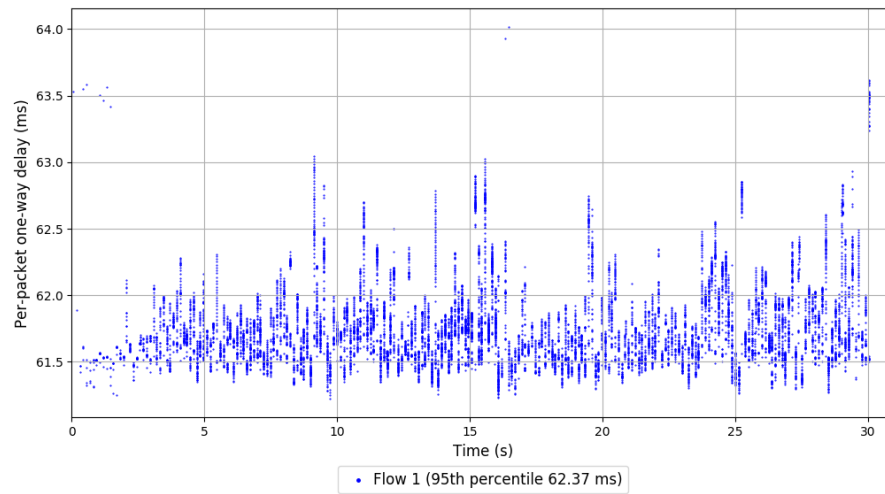
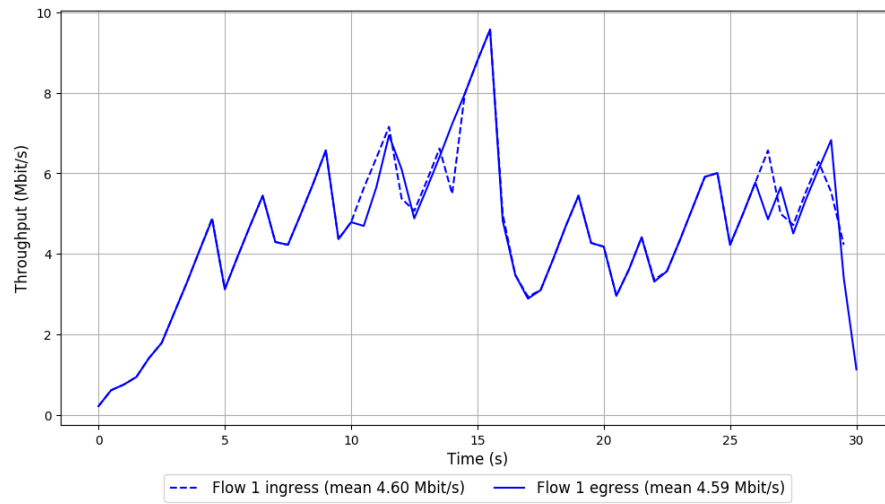
-- Flow 1:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 62.368 ms

Loss rate: 0.12%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-18 11:52:59

End at: 2017-09-18 11:53:29

Below is generated by plot.py at 2017-09-18 13:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 62.233 ms

Loss rate: 0.10%

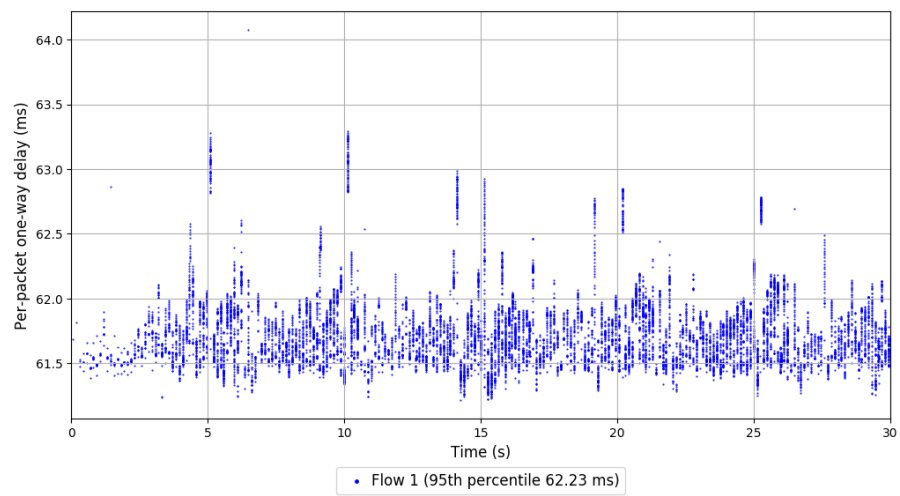
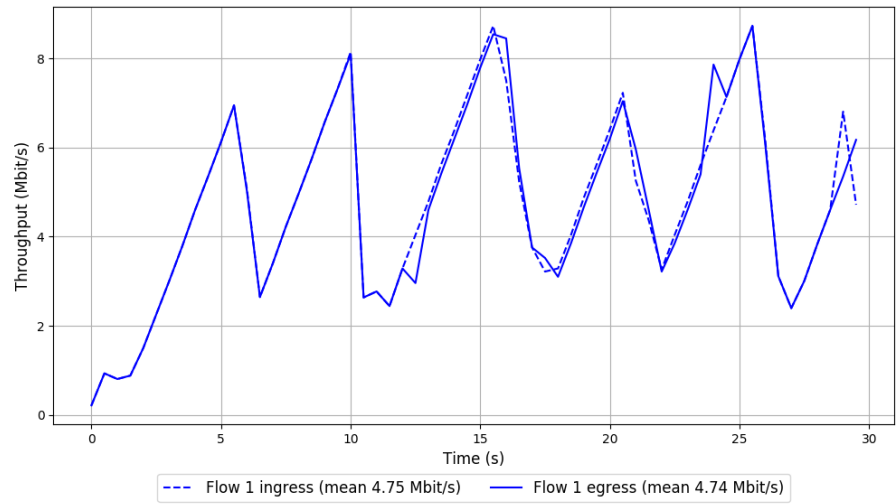
-- Flow 1:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 62.233 ms

Loss rate: 0.10%

Run 9: Report of LEDBAT — Data Link

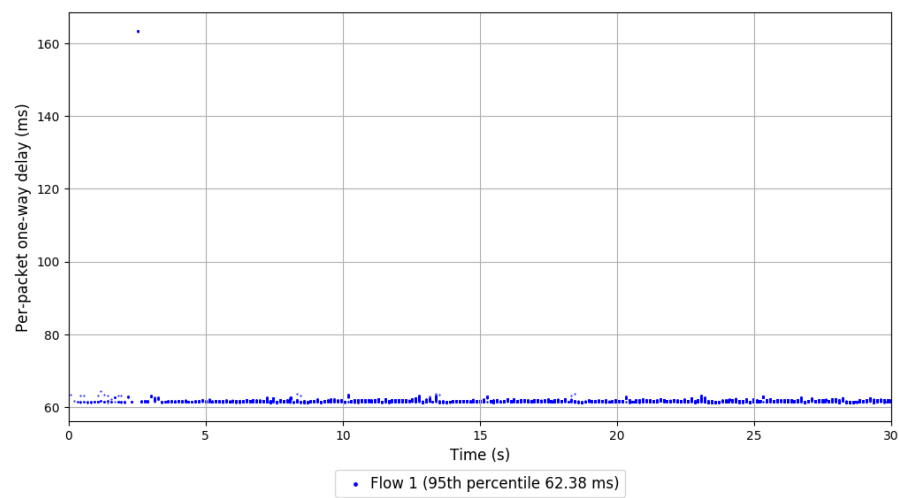
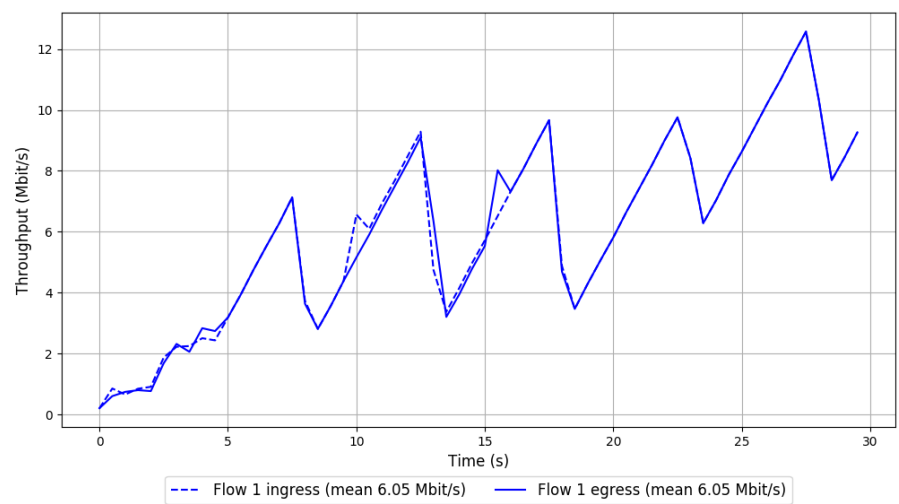


```
Run 10: Statistics of LEDBAT

Start at: 2017-09-18 12:03:48
End at: 2017-09-18 12:04:18

# Below is generated by plot.py at 2017-09-18 13:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 62.381 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 62.381 ms
Loss rate: 0.09%
```

Run 10: Report of LEDBAT — Data Link

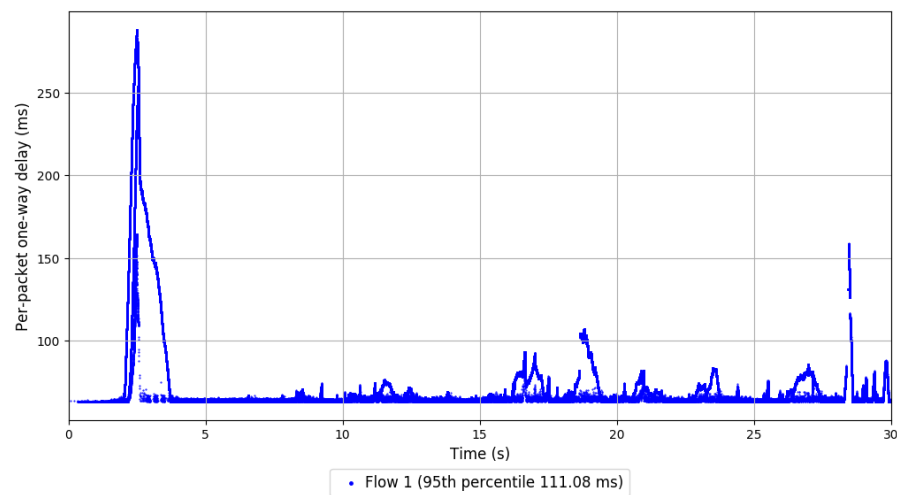
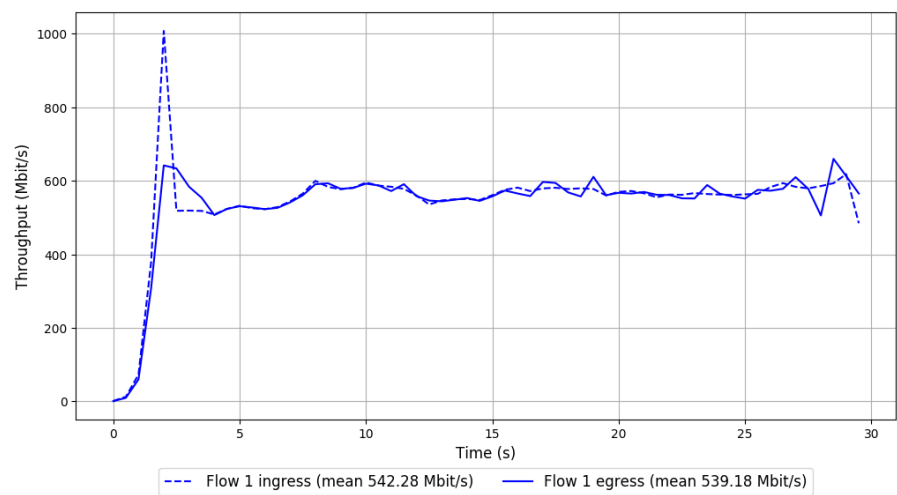


```
Run 1: Statistics of PCC

Start at: 2017-09-18 10:25:32
End at: 2017-09-18 10:26:02

# Below is generated by plot.py at 2017-09-18 13:44:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.18 Mbit/s
95th percentile per-packet one-way delay: 111.076 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 539.18 Mbit/s
95th percentile per-packet one-way delay: 111.076 ms
Loss rate: 0.57%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-18 10:36:59

End at: 2017-09-18 10:37:29

Below is generated by plot.py at 2017-09-18 13:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.96 Mbit/s

95th percentile per-packet one-way delay: 116.591 ms

Loss rate: 0.76%

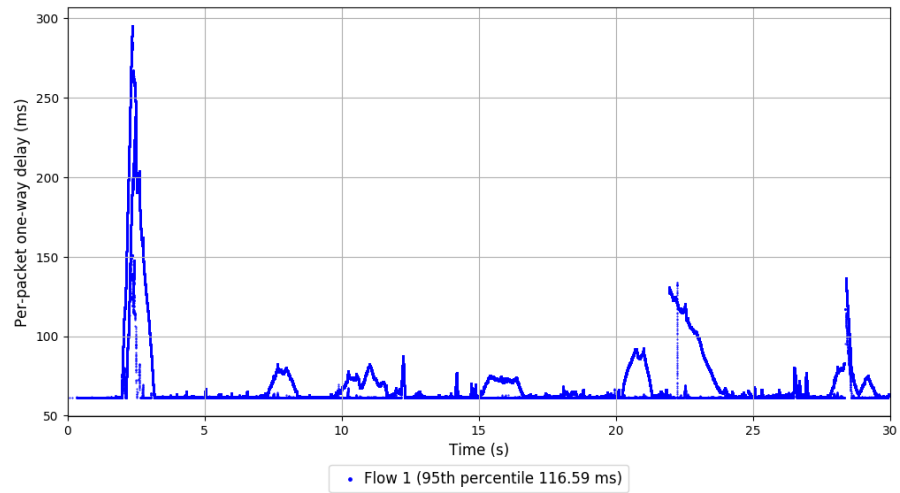
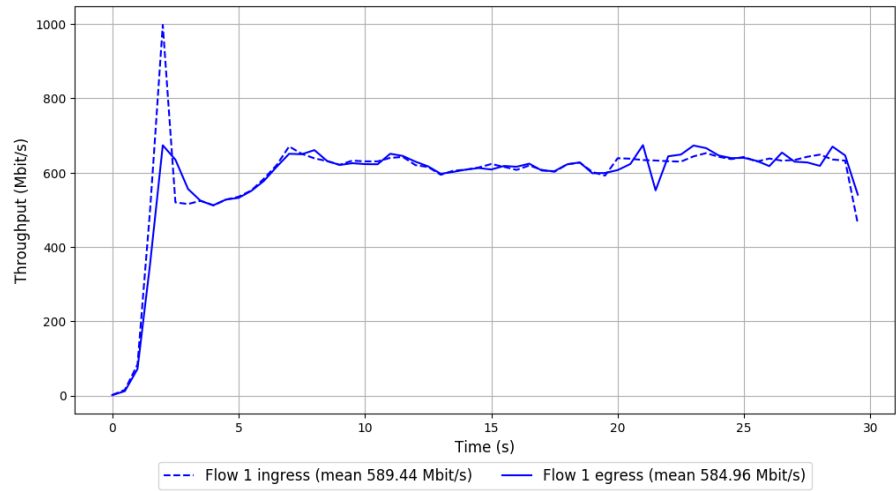
-- Flow 1:

Average throughput: 584.96 Mbit/s

95th percentile per-packet one-way delay: 116.591 ms

Loss rate: 0.76%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-18 10:48:32

End at: 2017-09-18 10:49:02

Below is generated by plot.py at 2017-09-18 13:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 559.03 Mbit/s

95th percentile per-packet one-way delay: 165.486 ms

Loss rate: 0.58%

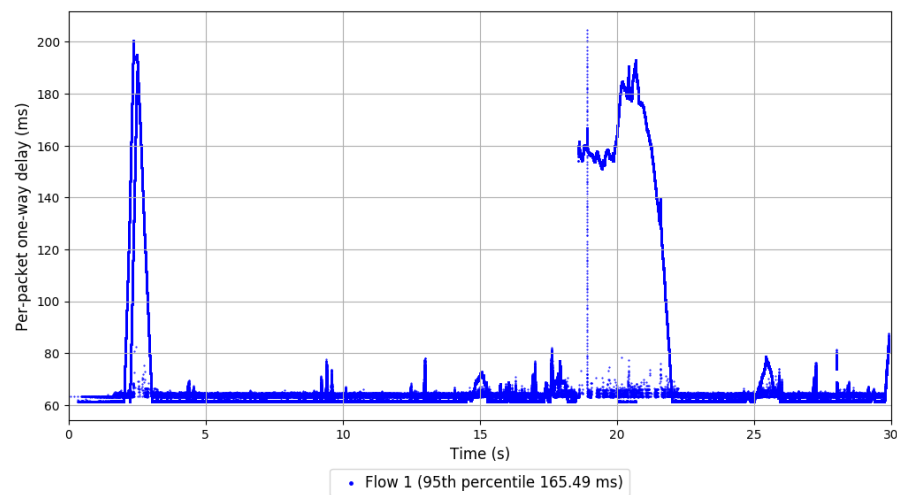
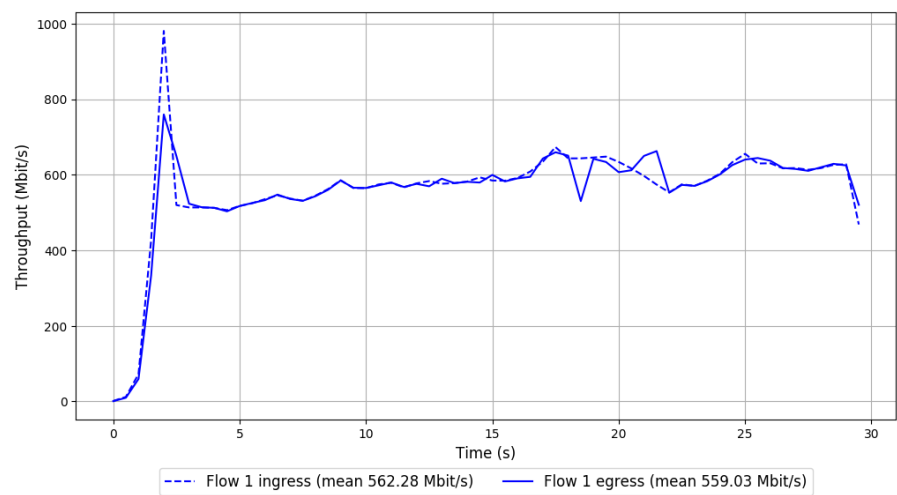
-- Flow 1:

Average throughput: 559.03 Mbit/s

95th percentile per-packet one-way delay: 165.486 ms

Loss rate: 0.58%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-18 10:59:55

End at: 2017-09-18 11:00:25

Below is generated by plot.py at 2017-09-18 13:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.67 Mbit/s

95th percentile per-packet one-way delay: 121.139 ms

Loss rate: 0.45%

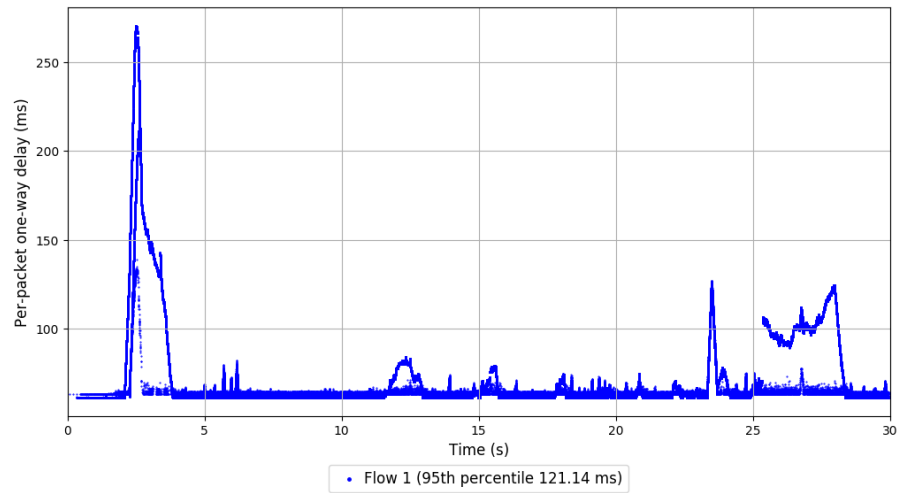
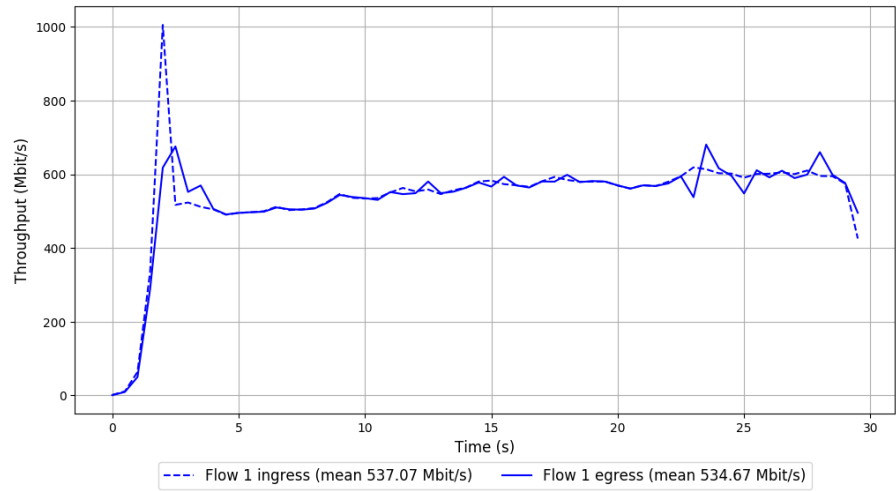
-- Flow 1:

Average throughput: 534.67 Mbit/s

95th percentile per-packet one-way delay: 121.139 ms

Loss rate: 0.45%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-18 11:11:27

End at: 2017-09-18 11:11:57

Below is generated by plot.py at 2017-09-18 13:45:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.31 Mbit/s

95th percentile per-packet one-way delay: 124.955 ms

Loss rate: 0.38%

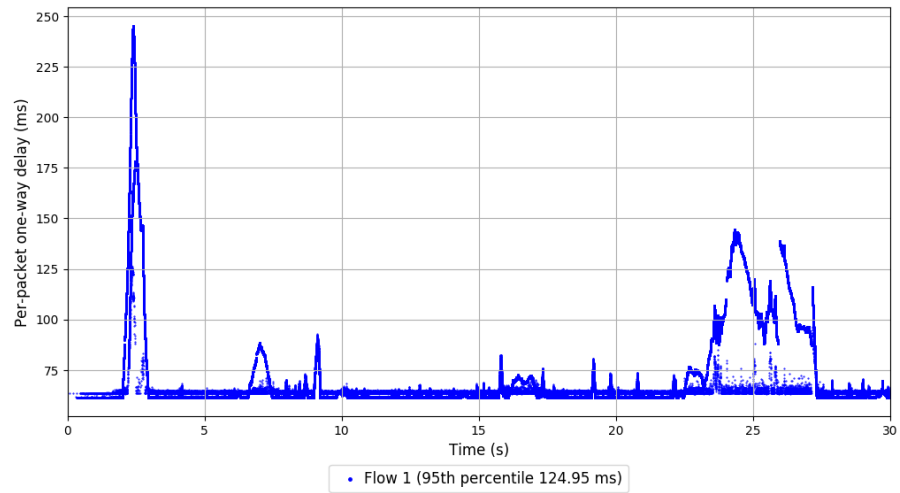
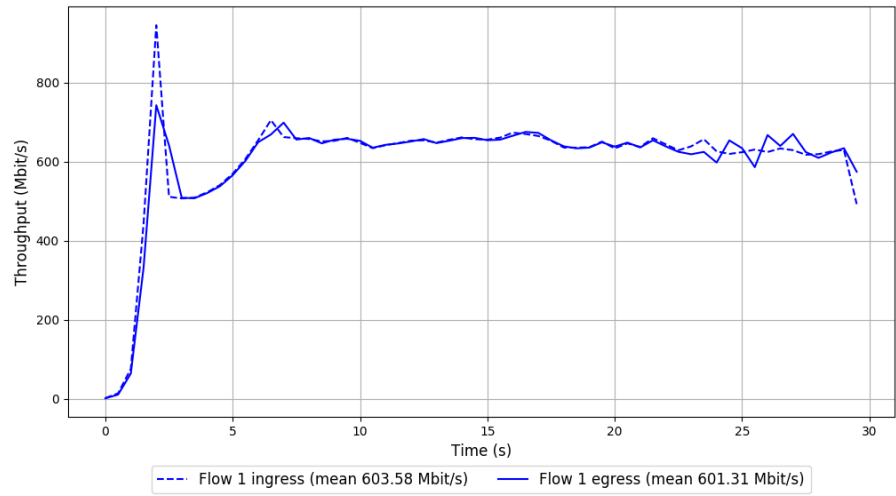
-- Flow 1:

Average throughput: 601.31 Mbit/s

95th percentile per-packet one-way delay: 124.955 ms

Loss rate: 0.38%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-18 11:22:50

End at: 2017-09-18 11:23:20

Below is generated by plot.py at 2017-09-18 13:46:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.39 Mbit/s

95th percentile per-packet one-way delay: 181.297 ms

Loss rate: 1.38%

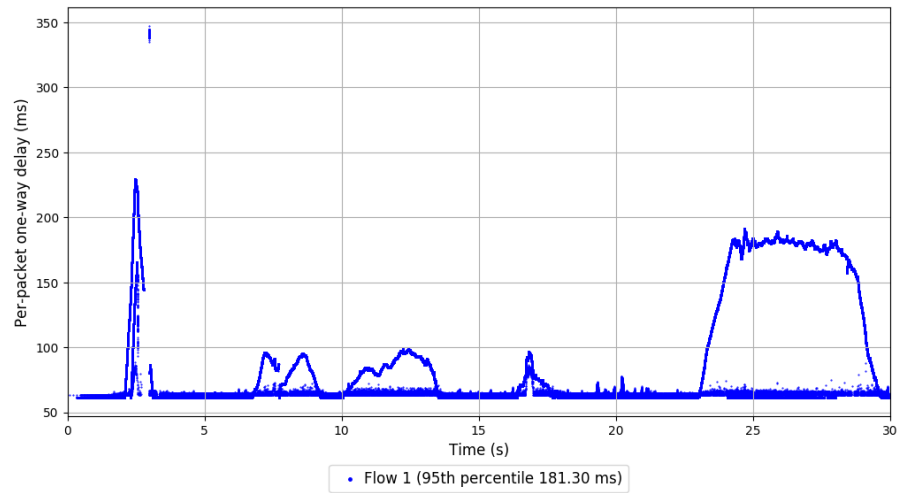
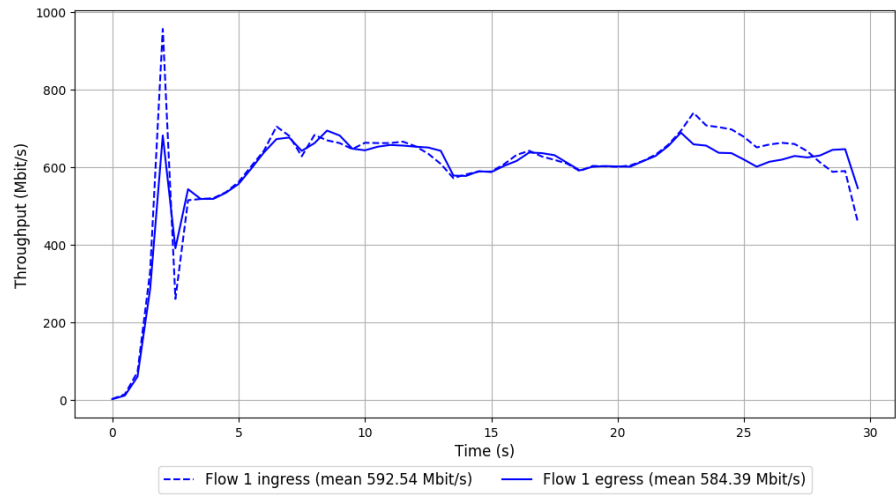
-- Flow 1:

Average throughput: 584.39 Mbit/s

95th percentile per-packet one-way delay: 181.297 ms

Loss rate: 1.38%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-18 11:34:08

End at: 2017-09-18 11:34:38

Below is generated by plot.py at 2017-09-18 13:46:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.61 Mbit/s

95th percentile per-packet one-way delay: 99.308 ms

Loss rate: 0.55%

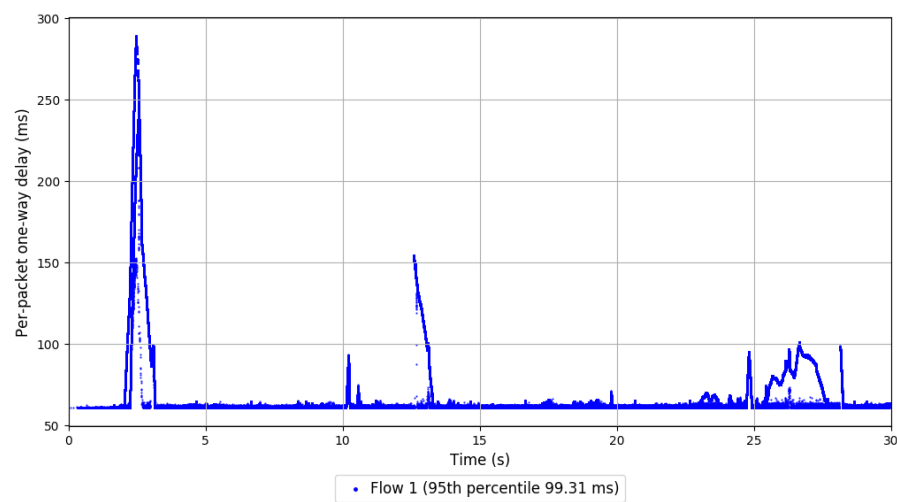
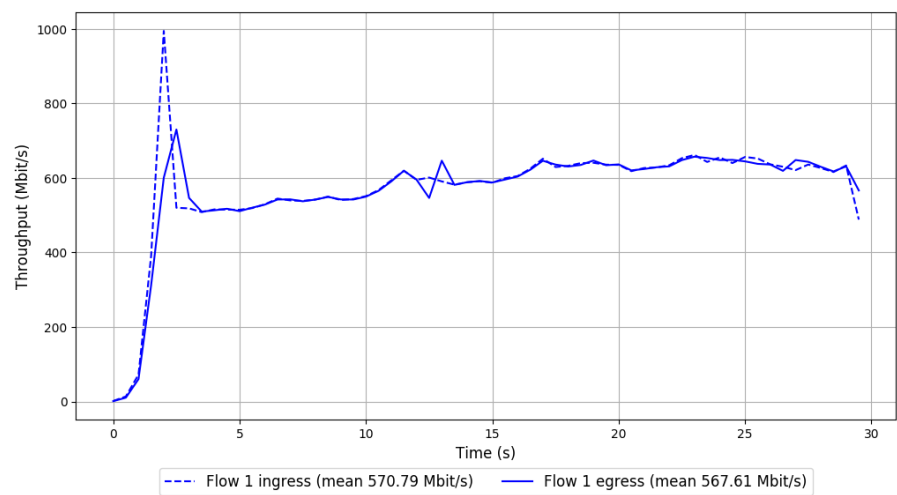
-- Flow 1:

Average throughput: 567.61 Mbit/s

95th percentile per-packet one-way delay: 99.308 ms

Loss rate: 0.55%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-18 11:45:35

End at: 2017-09-18 11:46:05

Below is generated by plot.py at 2017-09-18 13:46:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.92 Mbit/s

95th percentile per-packet one-way delay: 173.301 ms

Loss rate: 0.51%

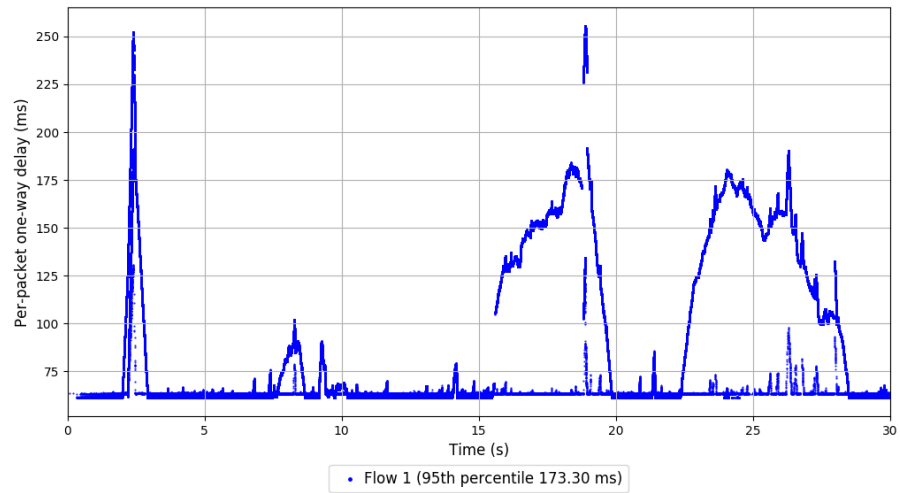
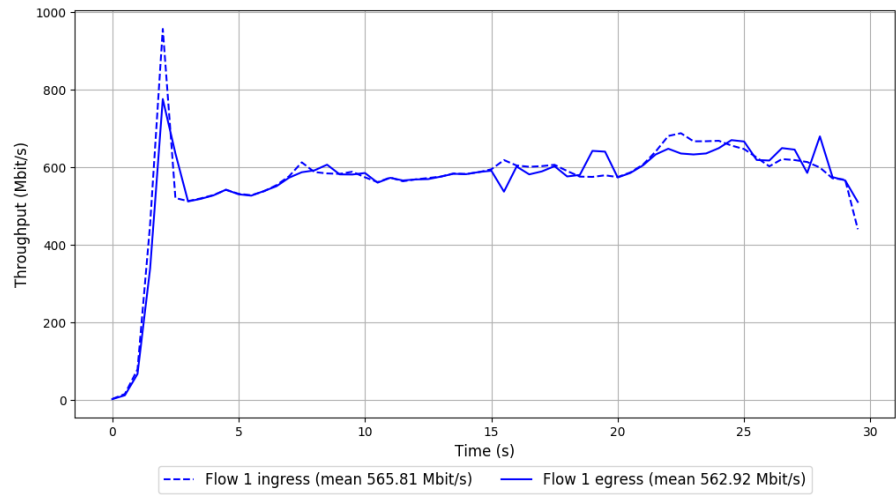
-- Flow 1:

Average throughput: 562.92 Mbit/s

95th percentile per-packet one-way delay: 173.301 ms

Loss rate: 0.51%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-18 11:56:59

End at: 2017-09-18 11:57:29

Below is generated by plot.py at 2017-09-18 13:53:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.88 Mbit/s

95th percentile per-packet one-way delay: 104.348 ms

Loss rate: 0.32%

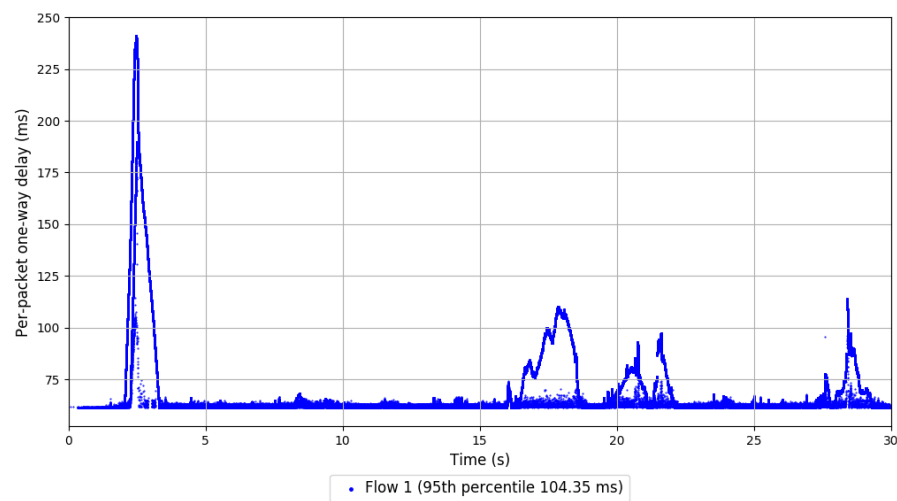
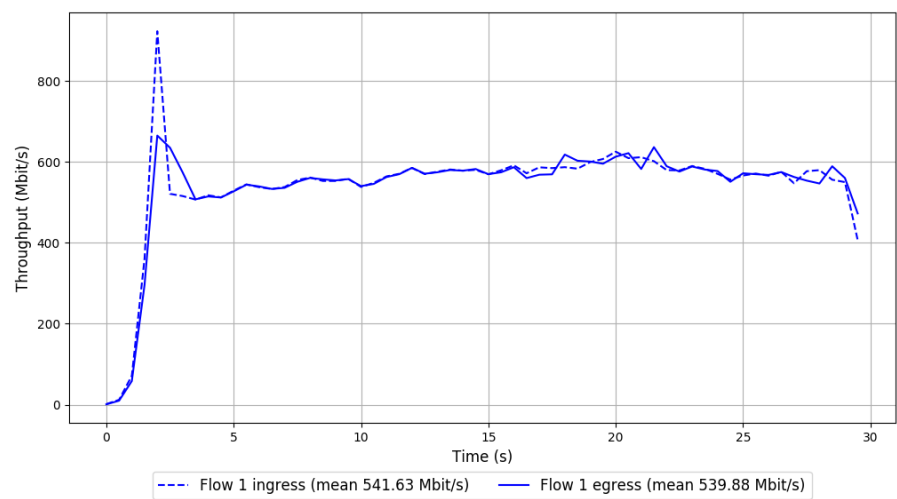
-- Flow 1:

Average throughput: 539.88 Mbit/s

95th percentile per-packet one-way delay: 104.348 ms

Loss rate: 0.32%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-18 12:07:51

End at: 2017-09-18 12:08:21

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.56 Mbit/s

95th percentile per-packet one-way delay: 173.200 ms

Loss rate: 0.71%

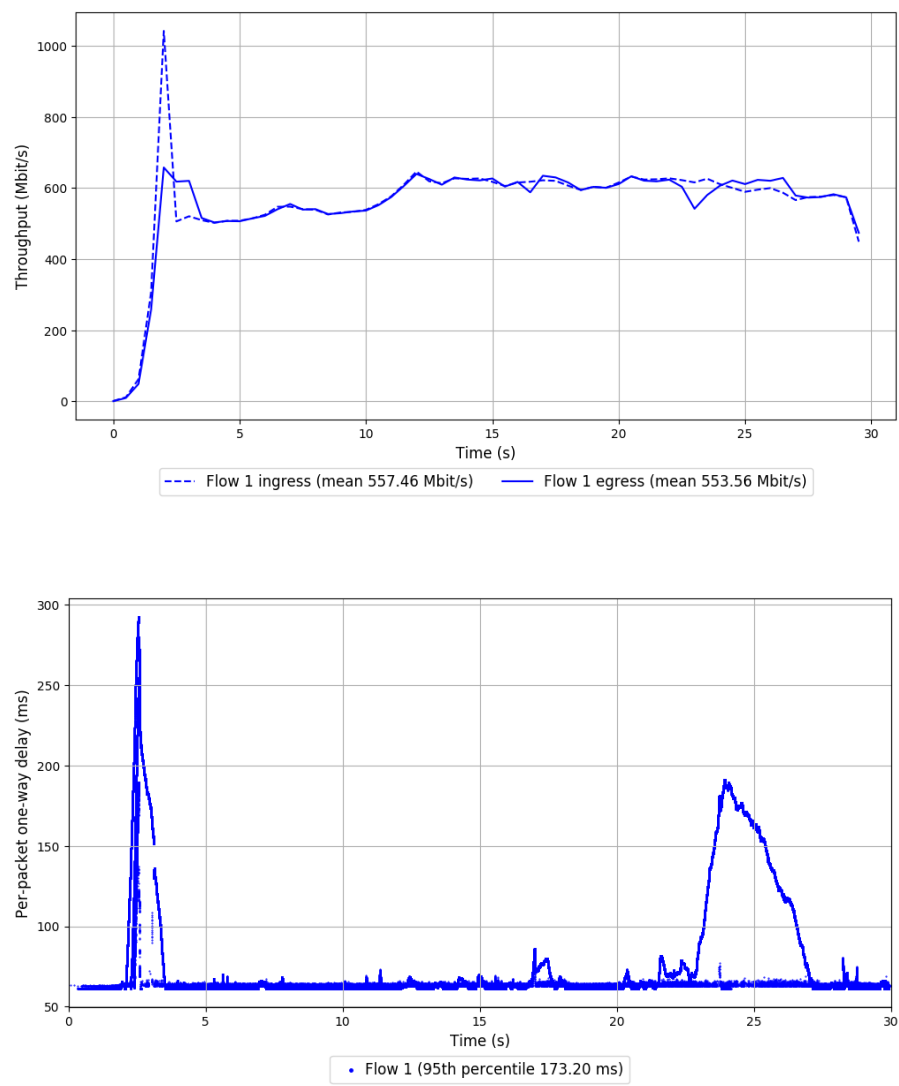
-- Flow 1:

Average throughput: 553.56 Mbit/s

95th percentile per-packet one-way delay: 173.200 ms

Loss rate: 0.71%

Run 10: Report of PCC — Data Link

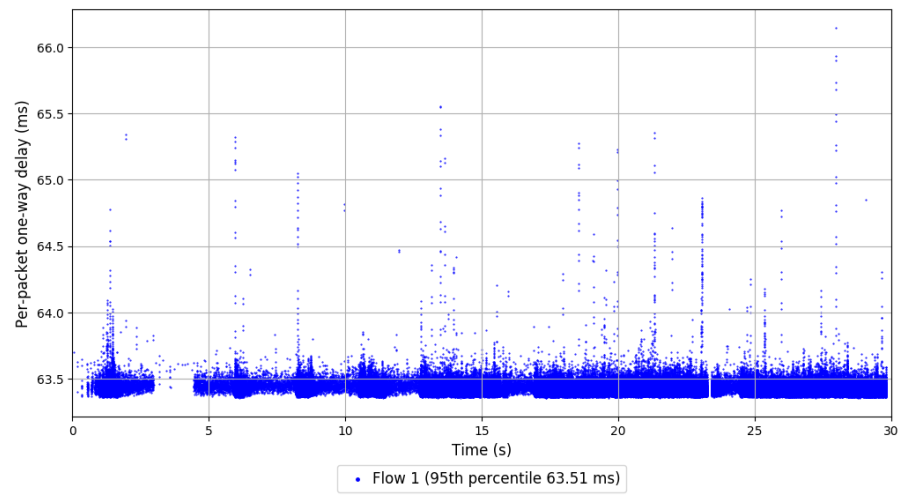
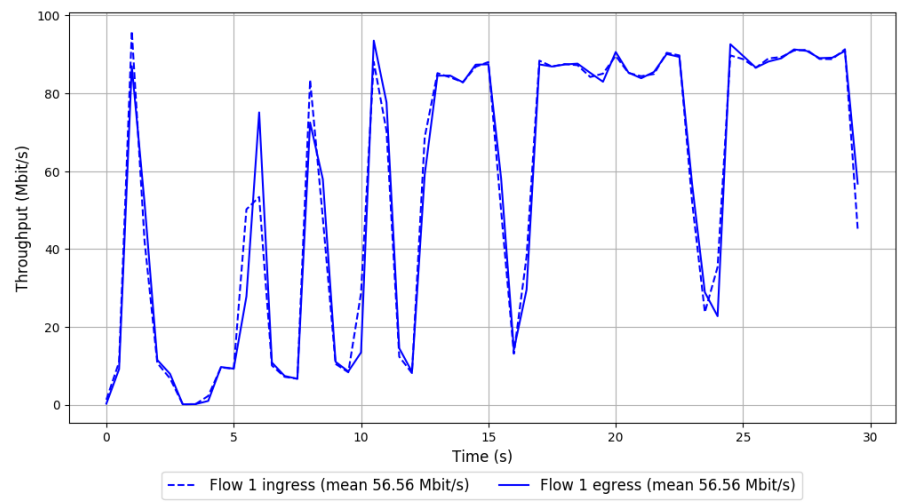


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 10:18:51
End at: 2017-09-18 10:19:21

# Below is generated by plot.py at 2017-09-18 13:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: 63.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: 63.513 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

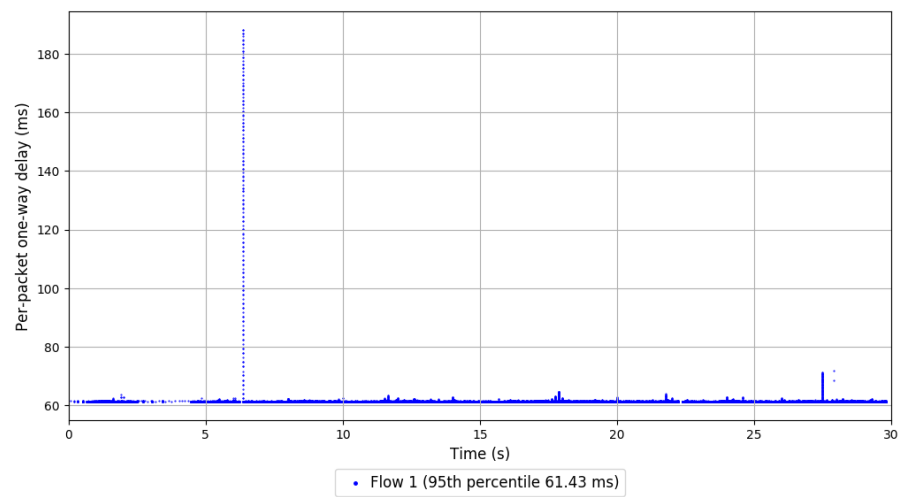
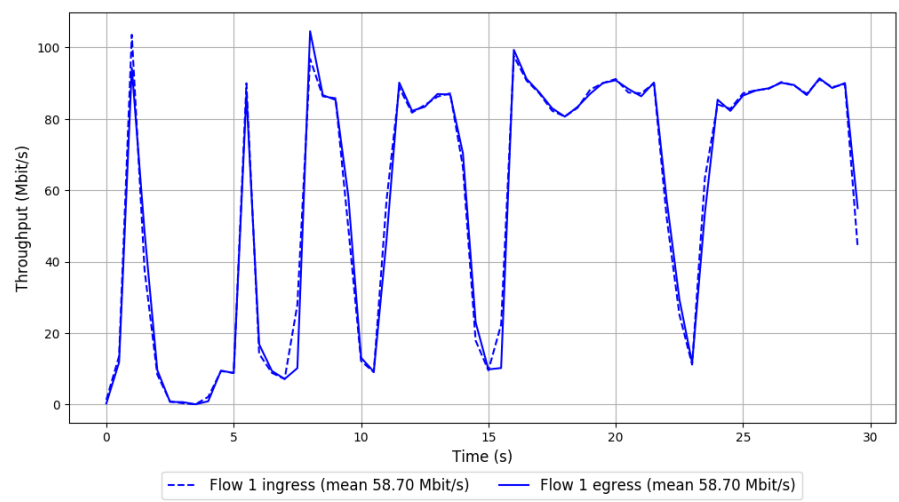


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 10:30:15
End at: 2017-09-18 10:30:45

# Below is generated by plot.py at 2017-09-18 13:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.70 Mbit/s
95th percentile per-packet one-way delay: 61.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.70 Mbit/s
95th percentile per-packet one-way delay: 61.428 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 10:41:40

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

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 61.464 ms

Loss rate: 0.00%

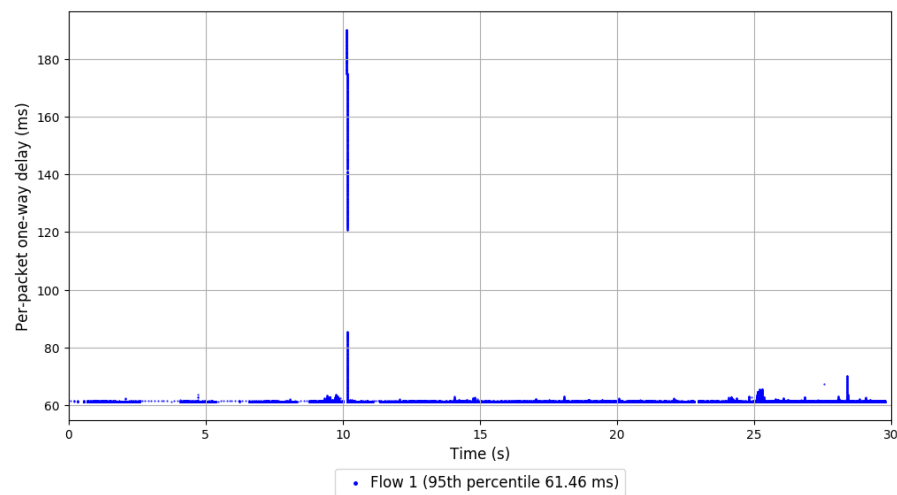
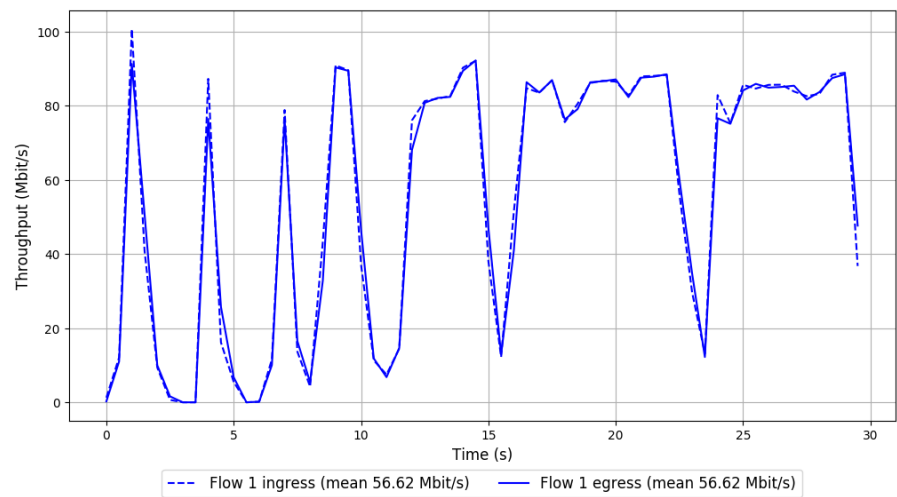
-- Flow 1:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 61.464 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 10:53:19

End at: 2017-09-18 10:53:49

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 61.347 ms

Loss rate: 0.00%

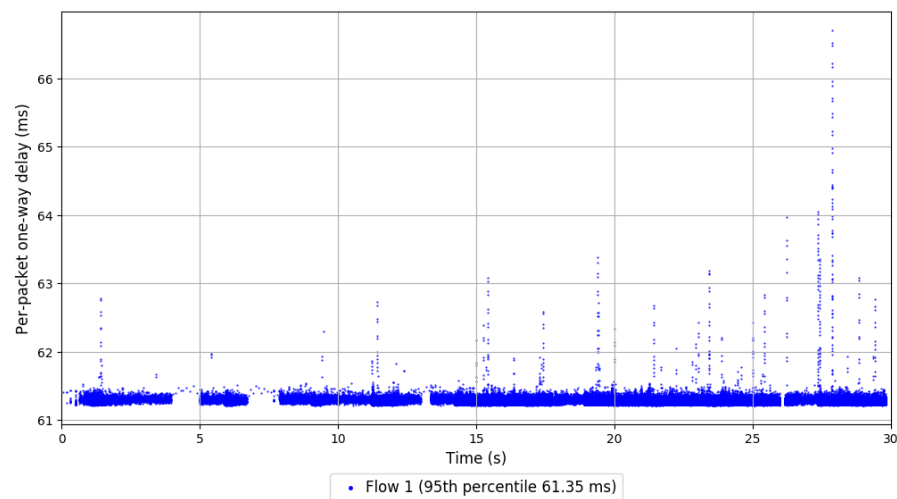
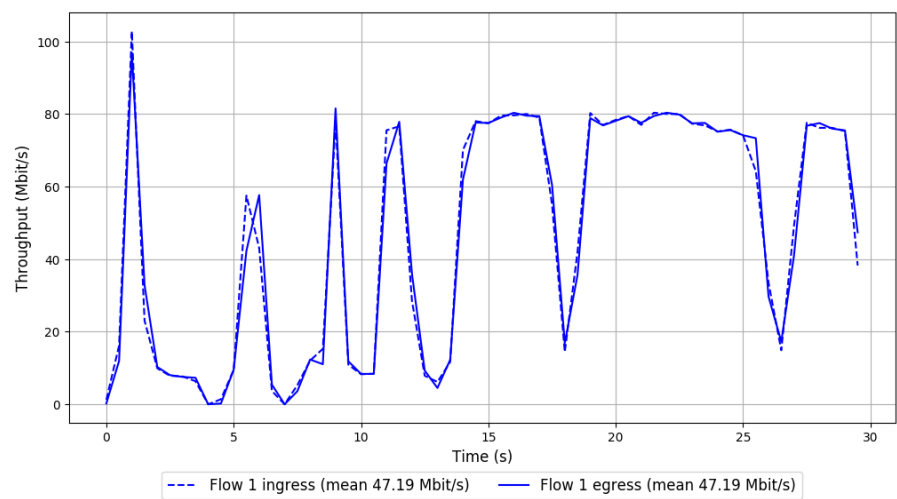
-- Flow 1:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 61.347 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 11:04:40

End at: 2017-09-18 11:05:10

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 61.586 ms

Loss rate: 0.00%

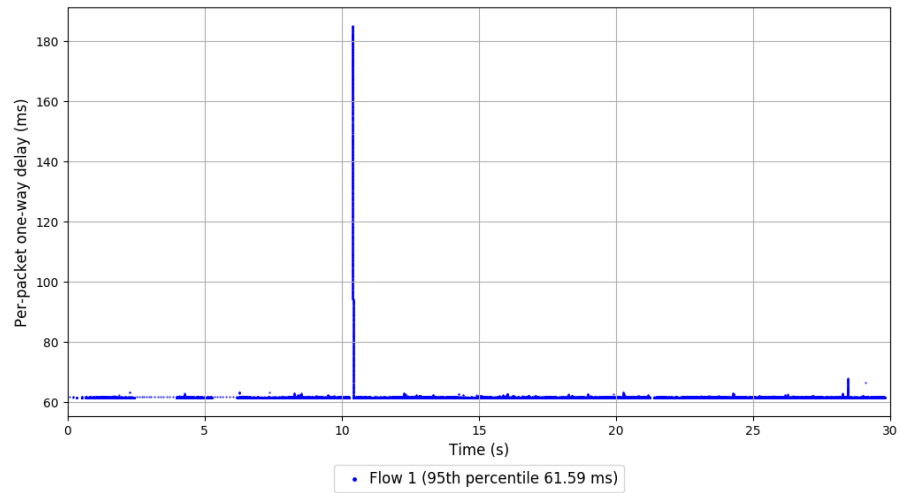
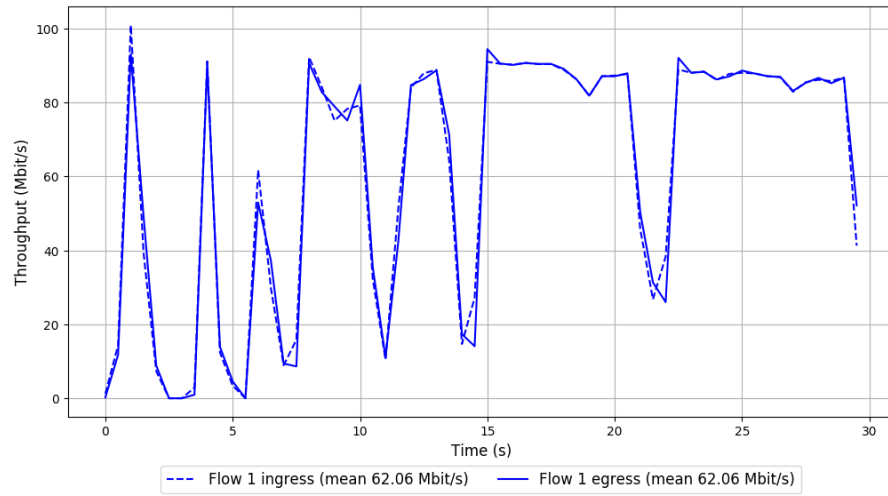
-- Flow 1:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 61.586 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-18 11:16:12

End at: 2017-09-18 11:16:43

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 63.471 ms

Loss rate: 0.00%

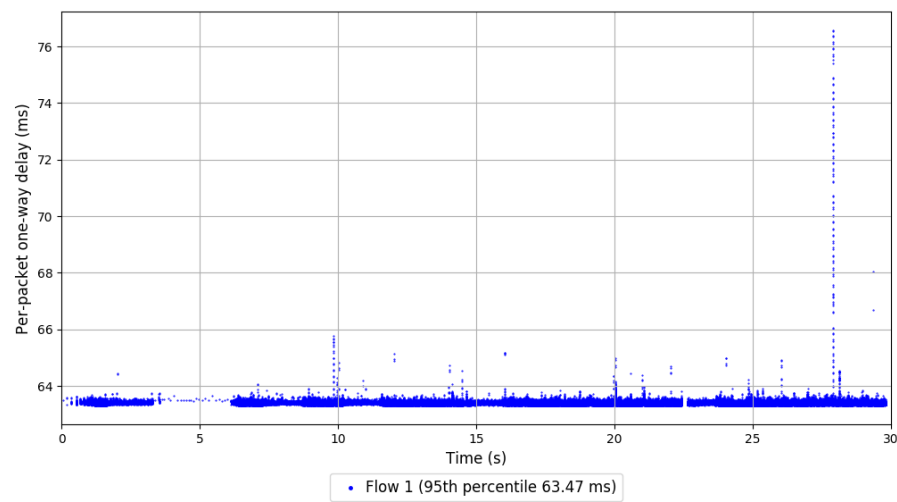
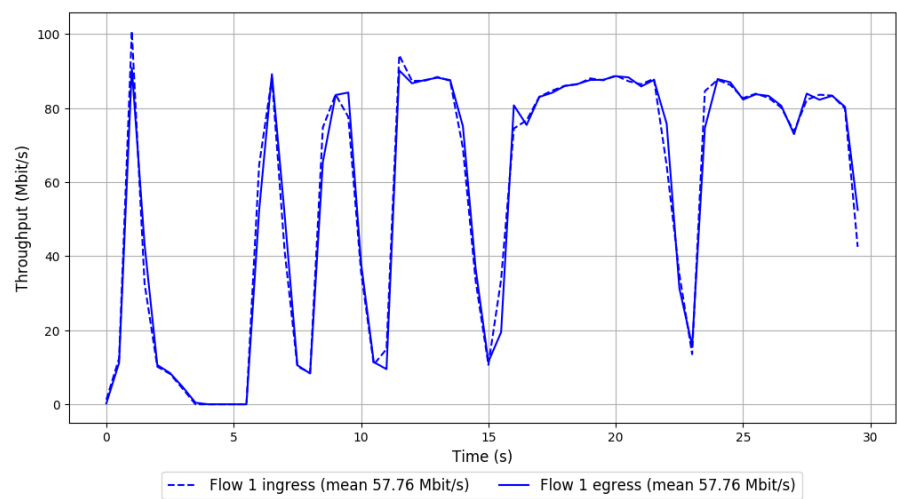
-- Flow 1:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 63.471 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 11:27:29

End at: 2017-09-18 11:27:59

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.05 Mbit/s

95th percentile per-packet one-way delay: 63.354 ms

Loss rate: 0.00%

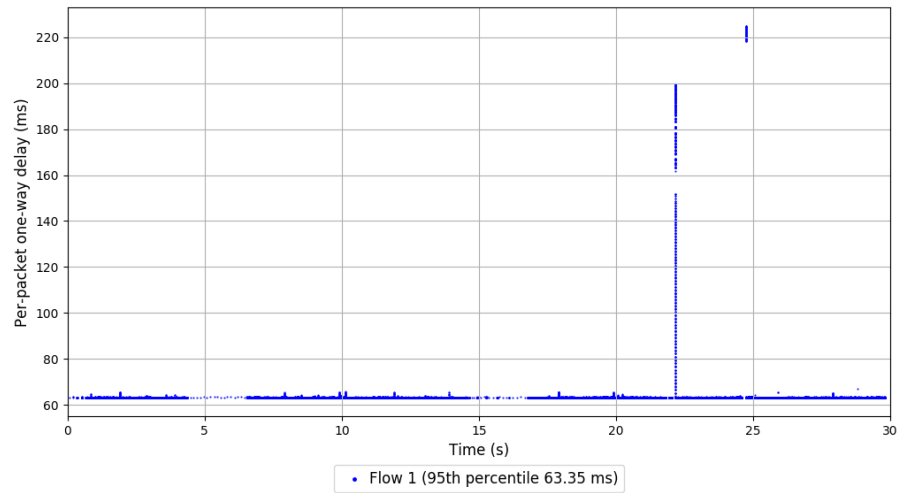
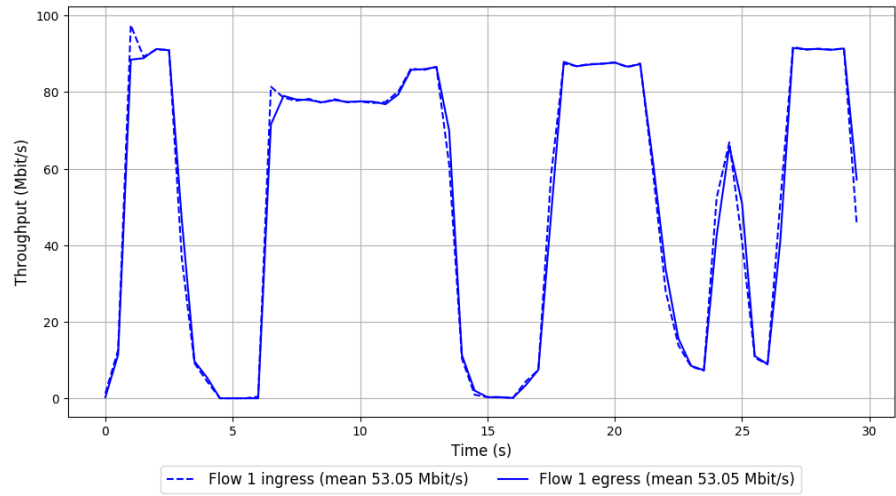
-- Flow 1:

Average throughput: 53.05 Mbit/s

95th percentile per-packet one-way delay: 63.354 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 11:38:56

End at: 2017-09-18 11:39:26

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 63.470 ms

Loss rate: 0.00%

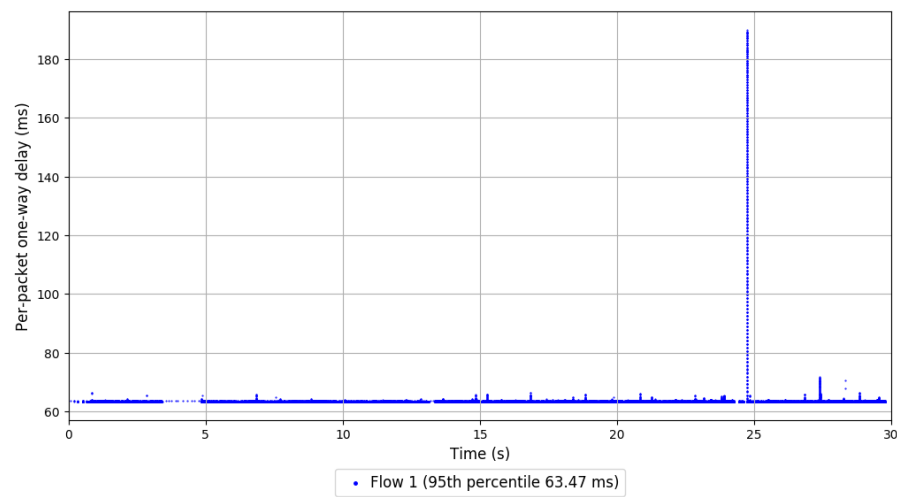
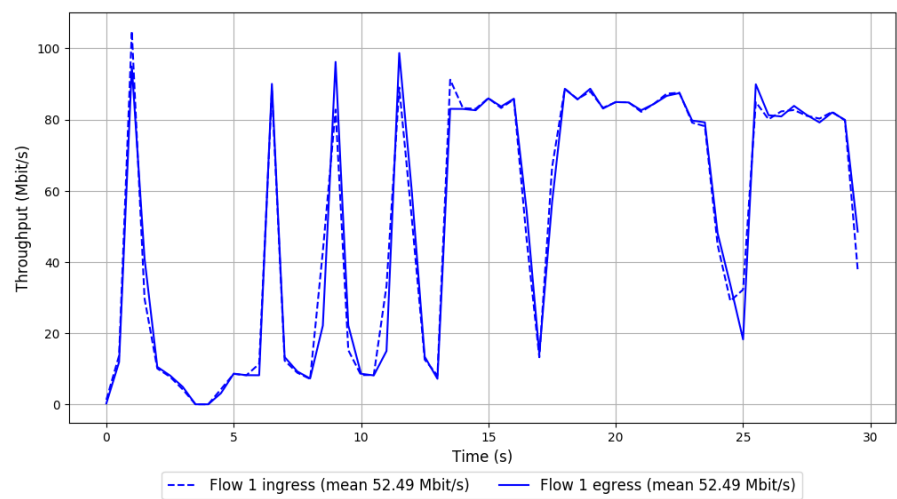
-- Flow 1:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 63.470 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 11:50:22

End at: 2017-09-18 11:50:52

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.00%

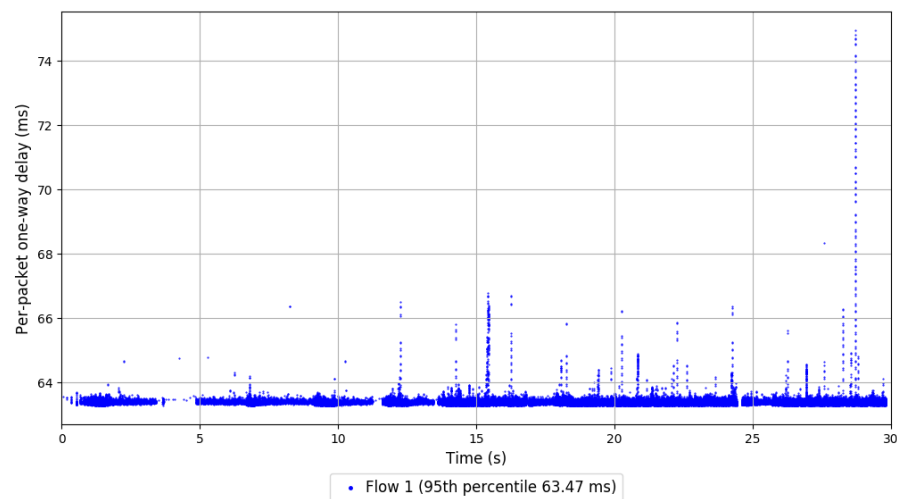
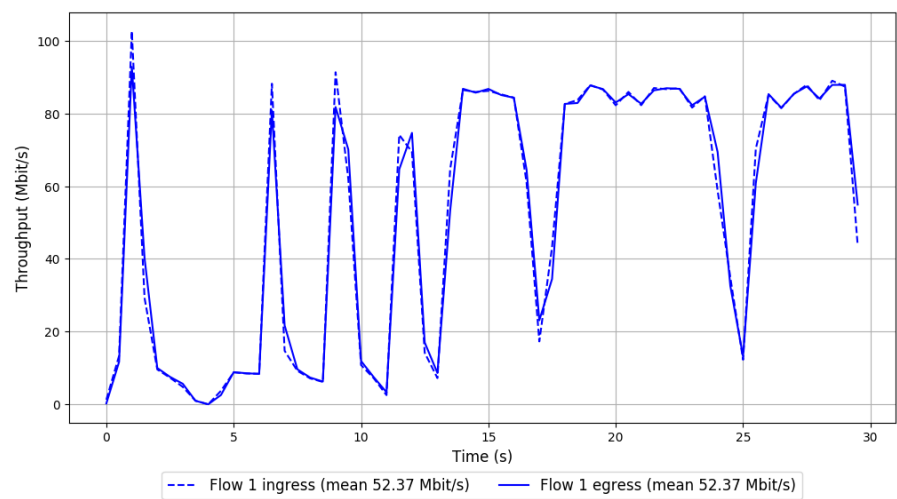
-- Flow 1:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 12:01:41

End at: 2017-09-18 12:02:11

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 61.283 ms

Loss rate: 0.00%

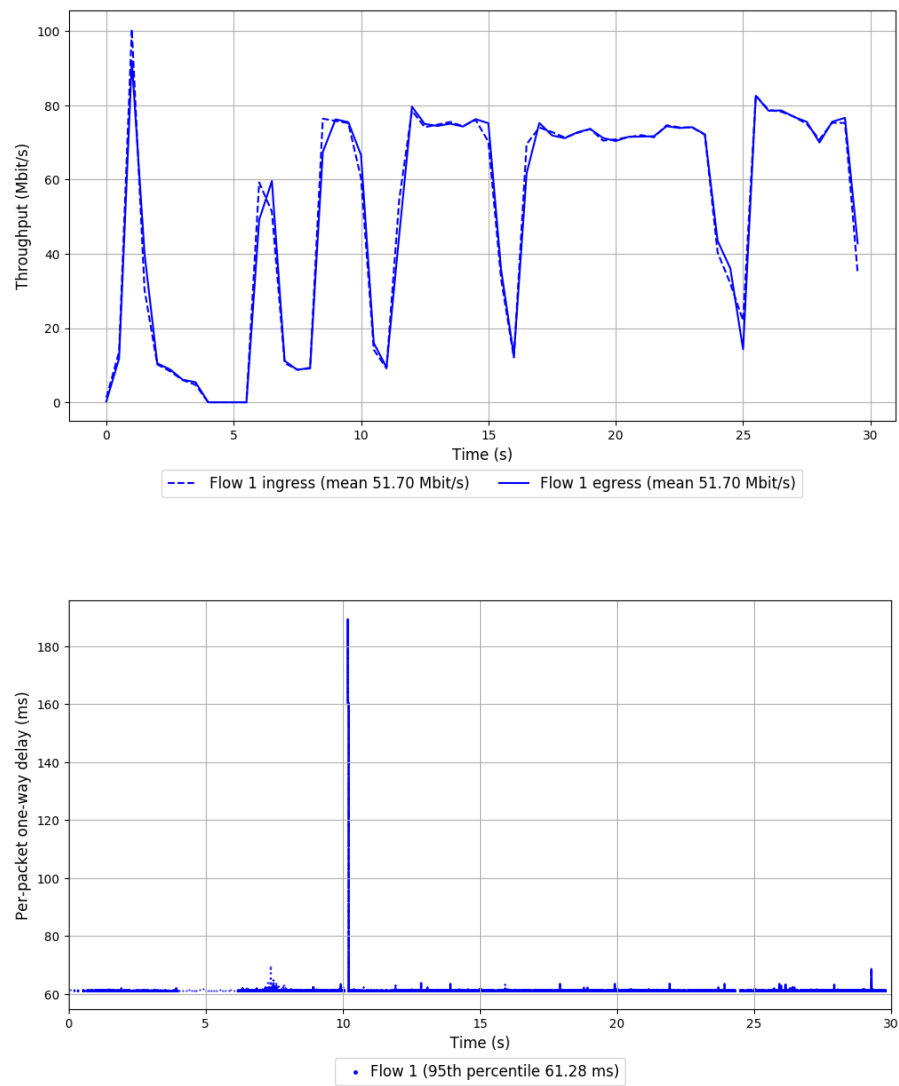
-- Flow 1:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 61.283 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

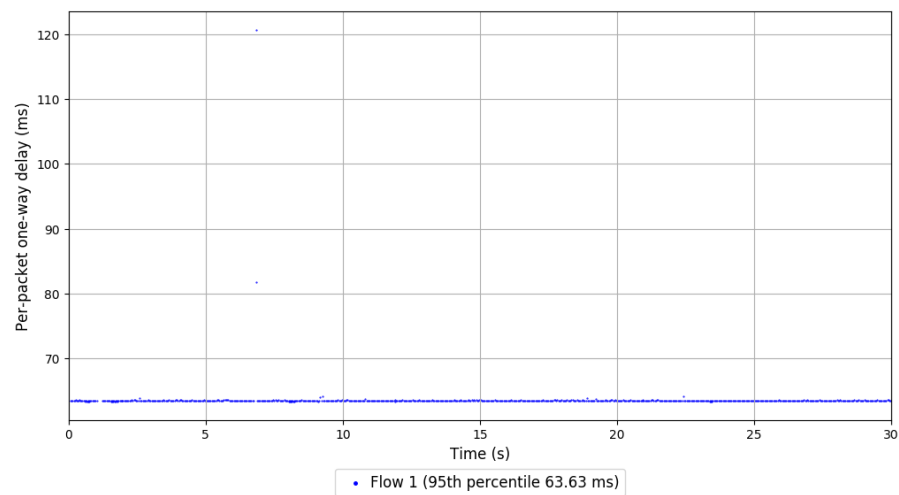
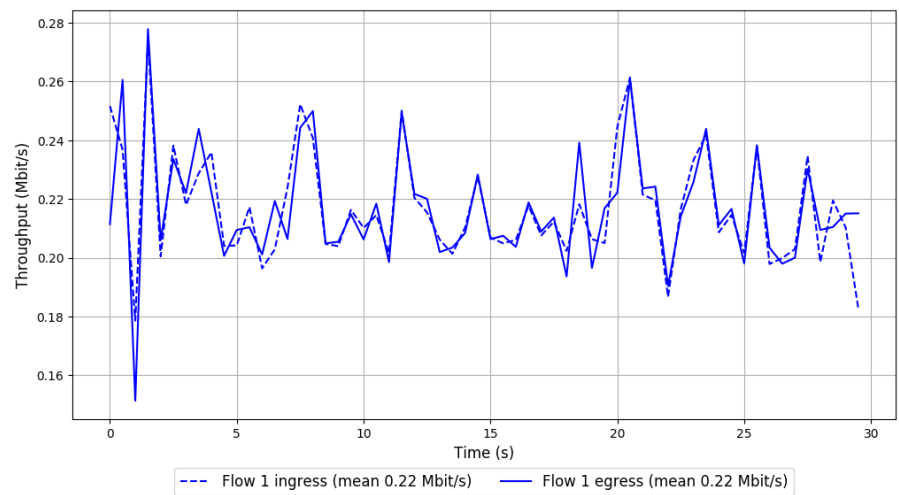


```
Run 1: Statistics of SCReAM

Start at: 2017-09-18 10:24:14
End at: 2017-09-18 10:24:44

# Below is generated by plot.py at 2017-09-18 13:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.628 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.628 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

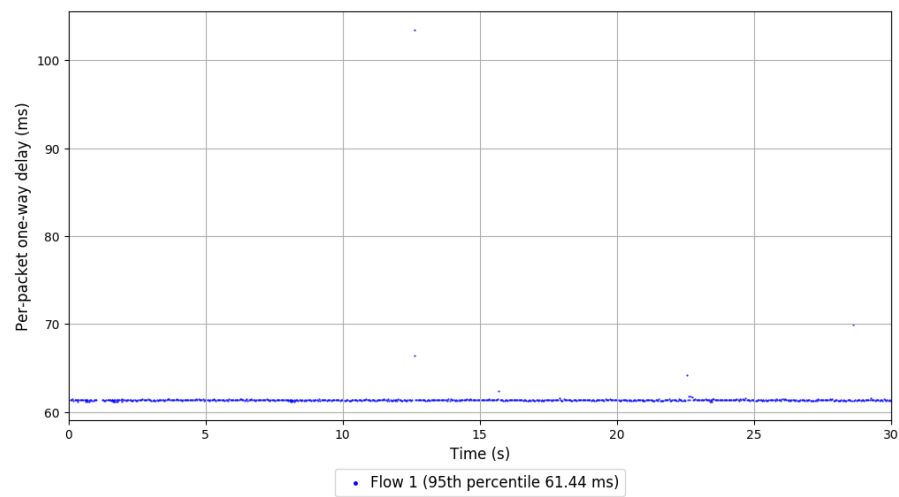
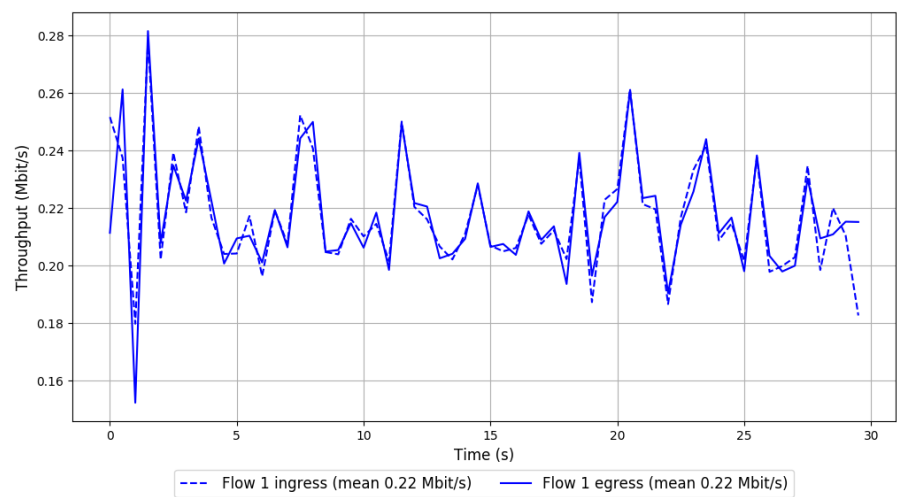


```
Run 2: Statistics of SCReAM

Start at: 2017-09-18 10:35:38
End at: 2017-09-18 10:36:08

# Below is generated by plot.py at 2017-09-18 13:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.441 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-18 10:47:12

End at: 2017-09-18 10:47:42

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.00%

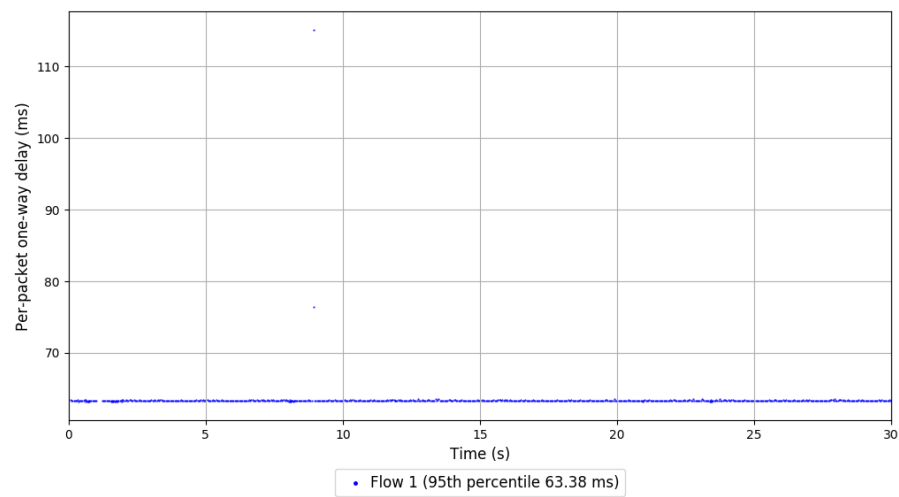
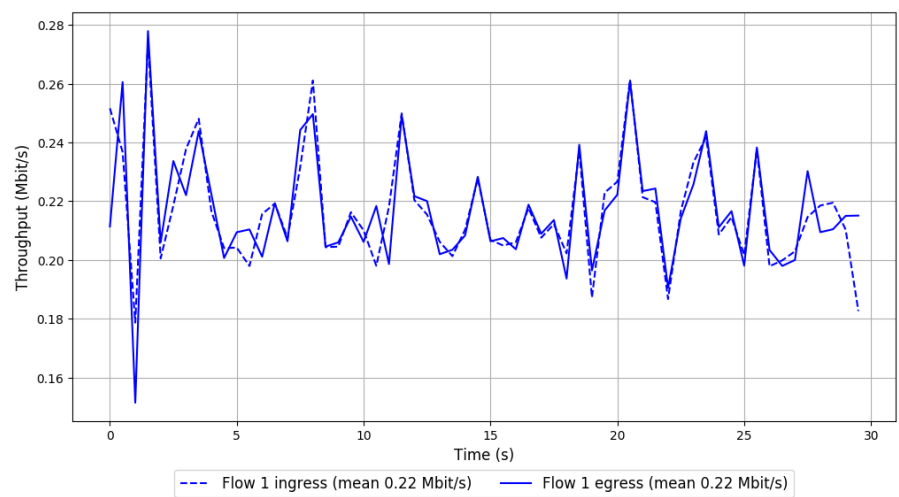
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-18 10:58:39

End at: 2017-09-18 10:59:09

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.526 ms

Loss rate: 0.00%

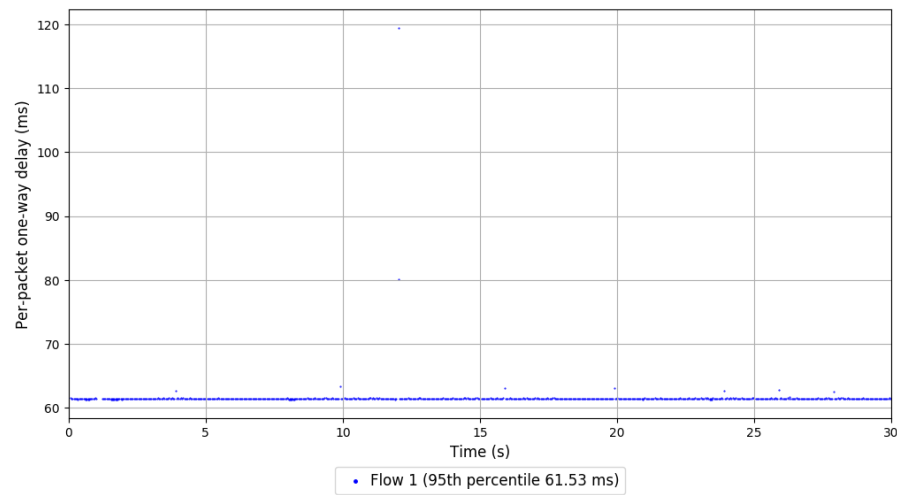
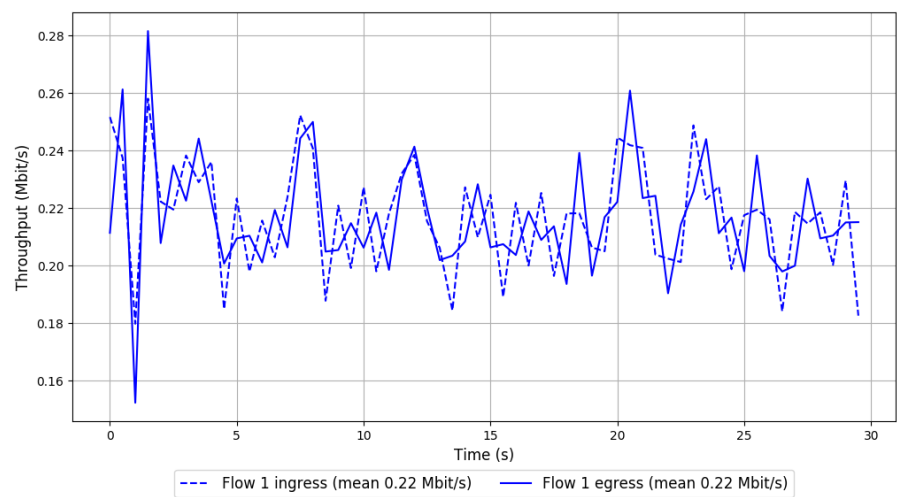
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.526 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-18 11:10:04

End at: 2017-09-18 11:10:34

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.00%

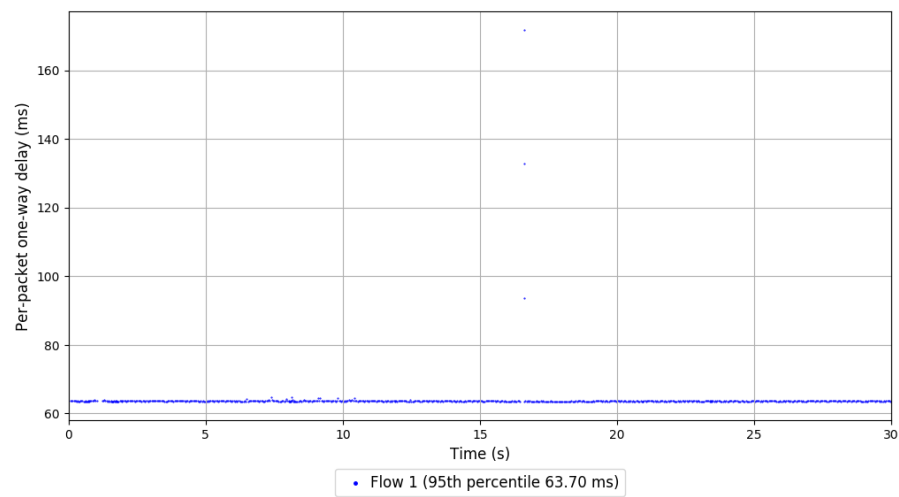
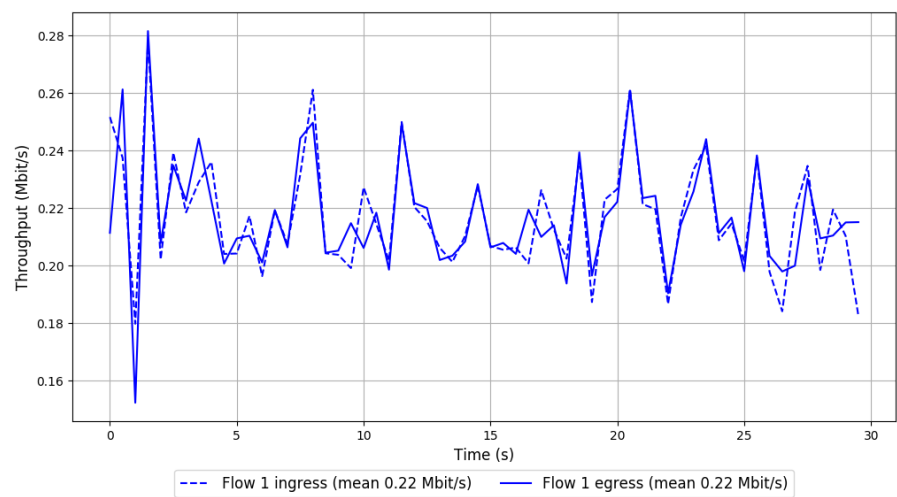
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-18 11:21:33

End at: 2017-09-18 11:22:03

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.445 ms

Loss rate: 0.00%

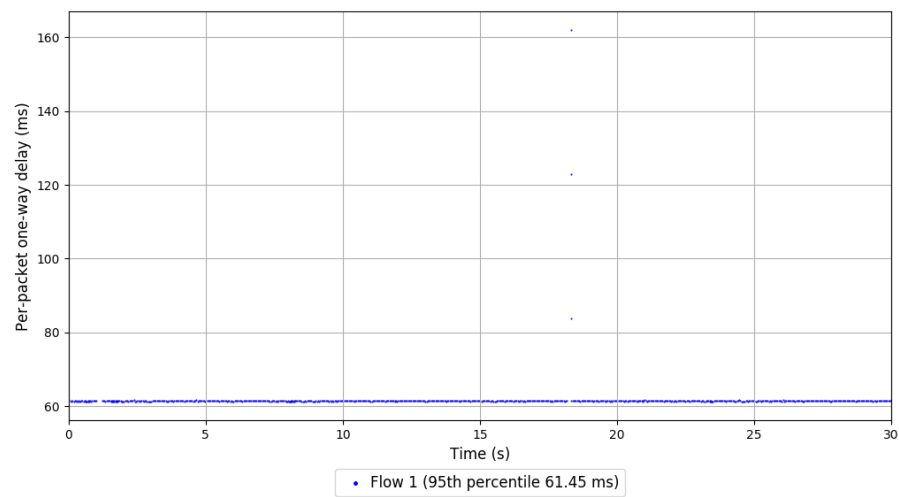
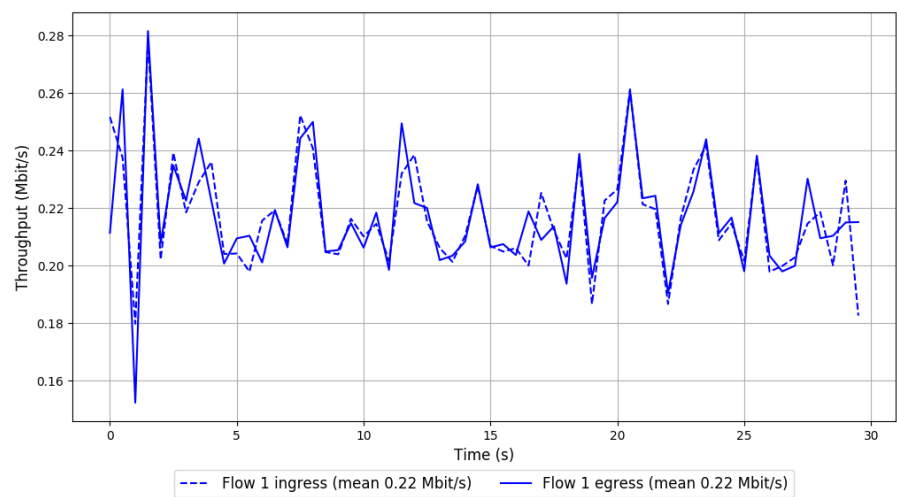
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.445 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-18 11:32:49

End at: 2017-09-18 11:33:19

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.618 ms

Loss rate: 0.00%

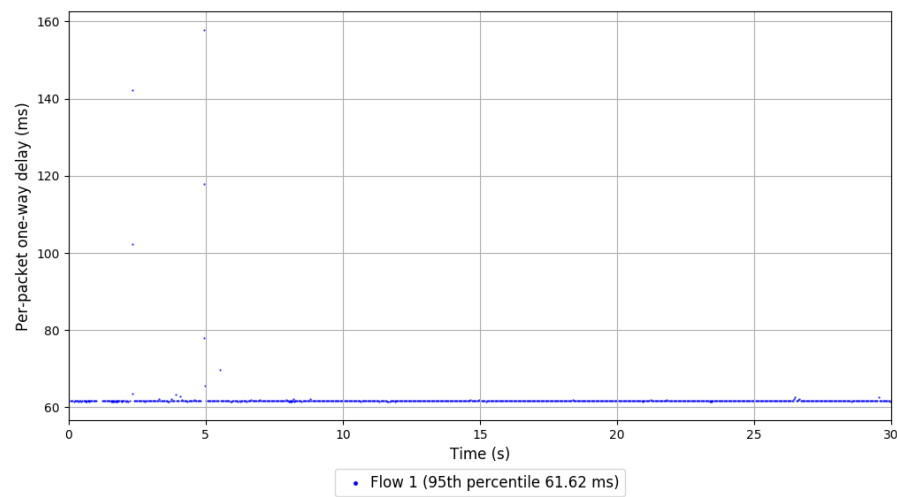
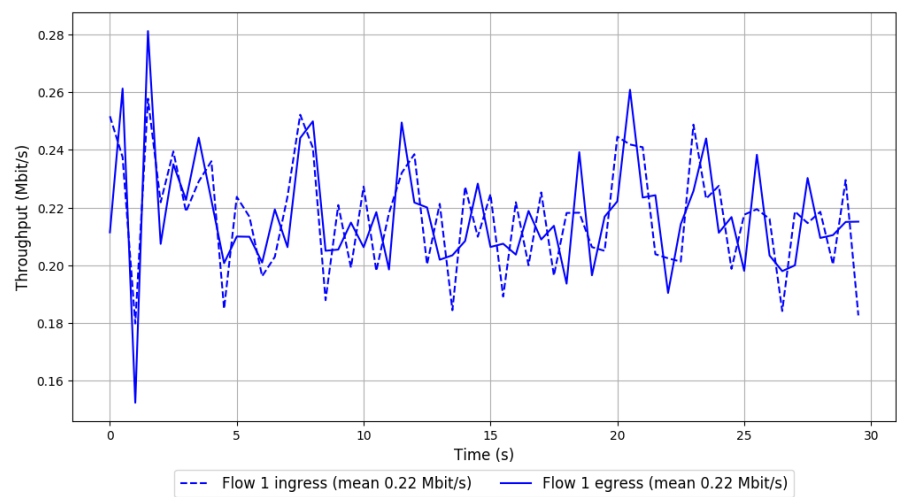
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.618 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-18 11:44:15

End at: 2017-09-18 11:44:45

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.509 ms

Loss rate: 0.00%

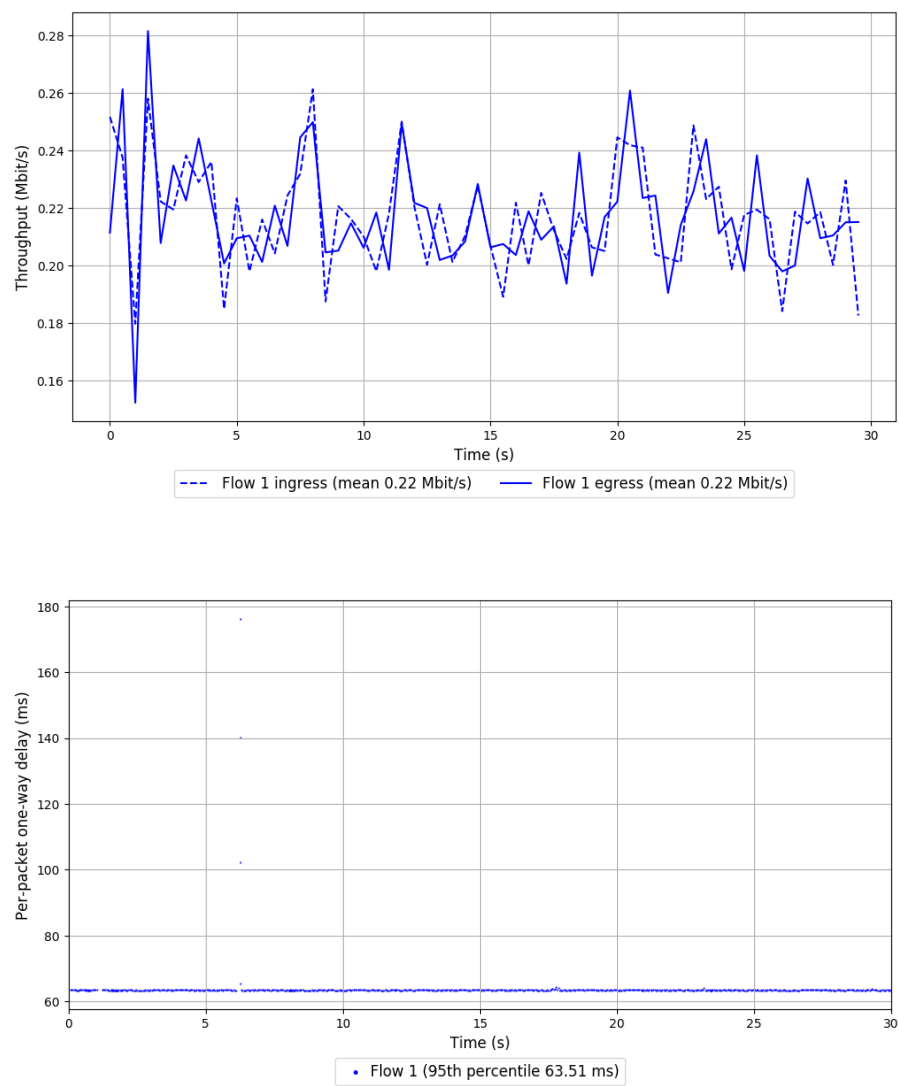
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.509 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-18 11:55:43

End at: 2017-09-18 11:56:13

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.539 ms

Loss rate: 0.00%

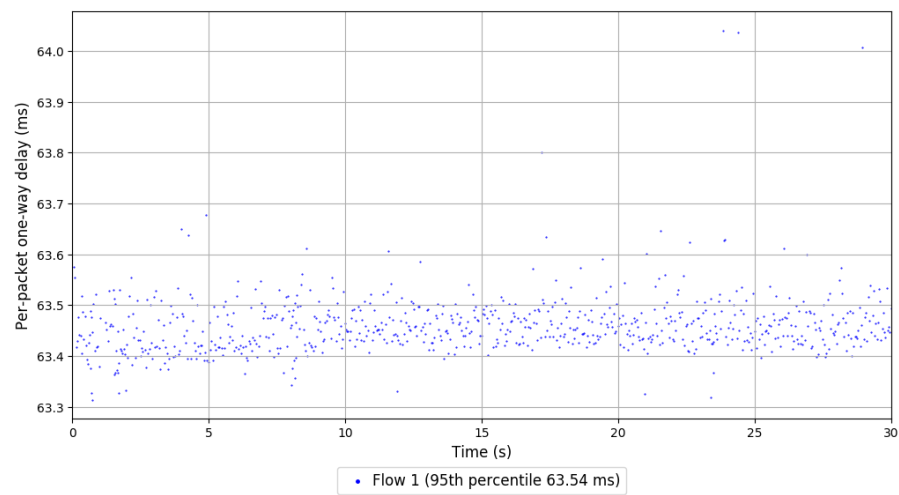
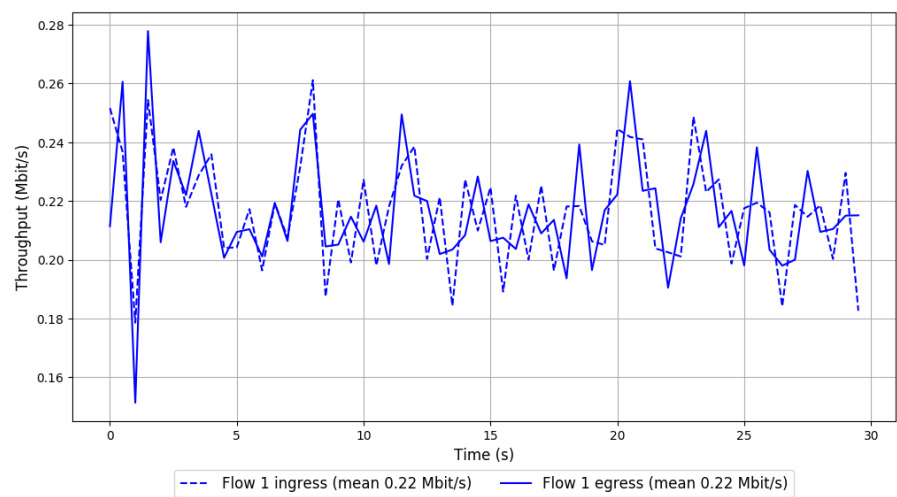
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.539 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

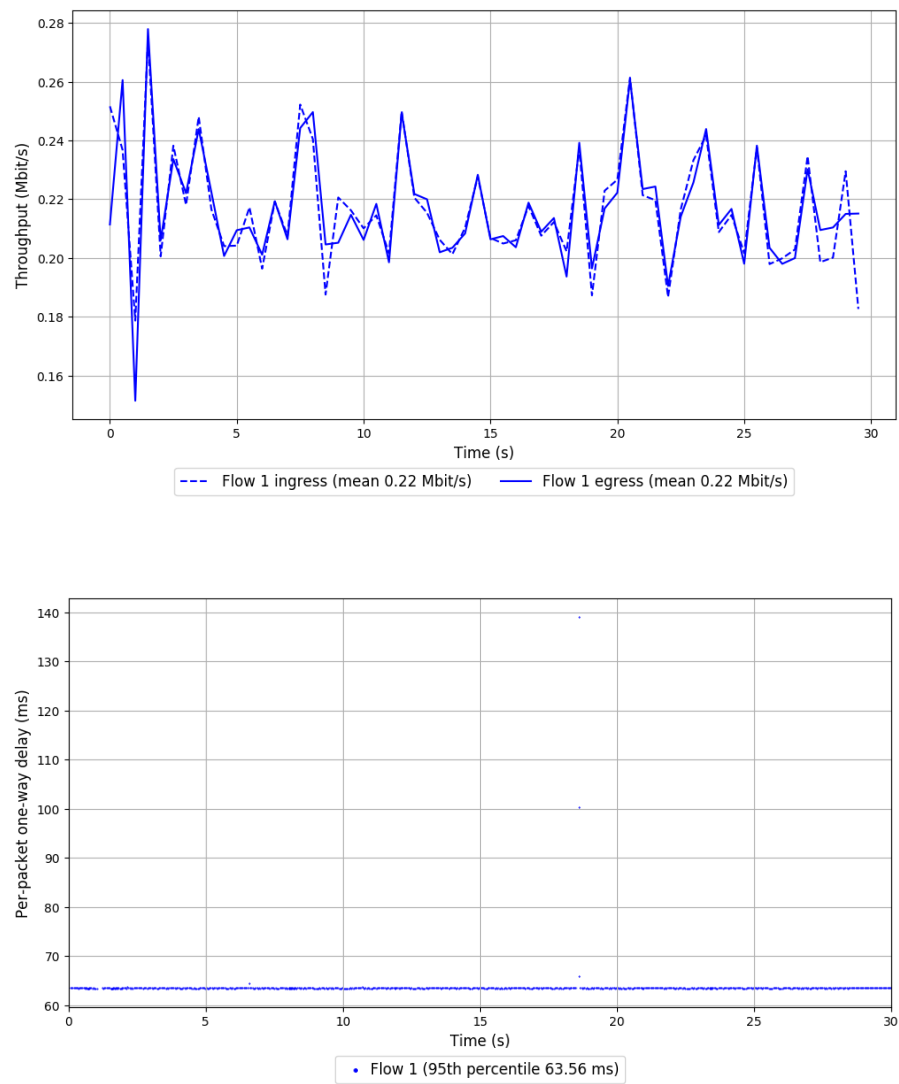


```
Run 10: Statistics of SReAM

Start at: 2017-09-18 12:06:32
End at: 2017-09-18 12:07:02

# Below is generated by plot.py at 2017-09-18 13:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.565 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

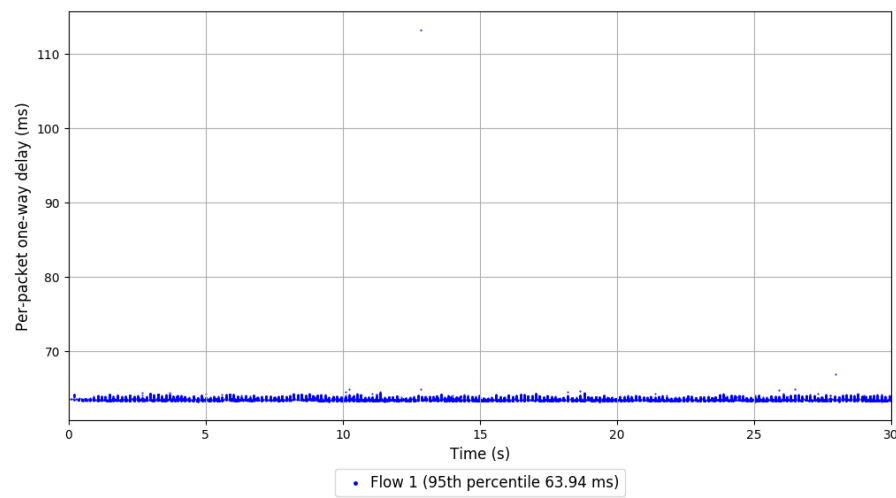
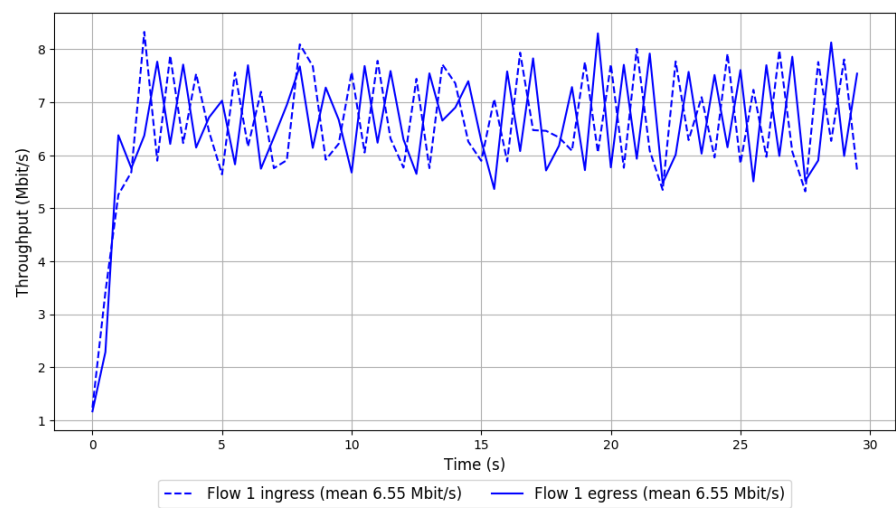


```
Run 1: Statistics of Sprout

Start at: 2017-09-18 10:22:08
End at: 2017-09-18 10:22:38

# Below is generated by plot.py at 2017-09-18 13:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 63.938 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 63.938 ms
Loss rate: 0.07%
```


Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-18 10:33:31

End at: 2017-09-18 10:34:01

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 62.313 ms

Loss rate: 0.10%

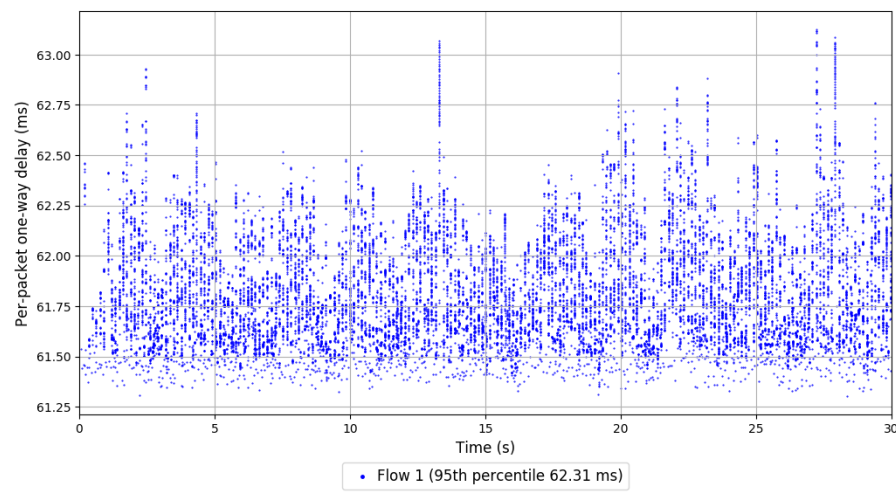
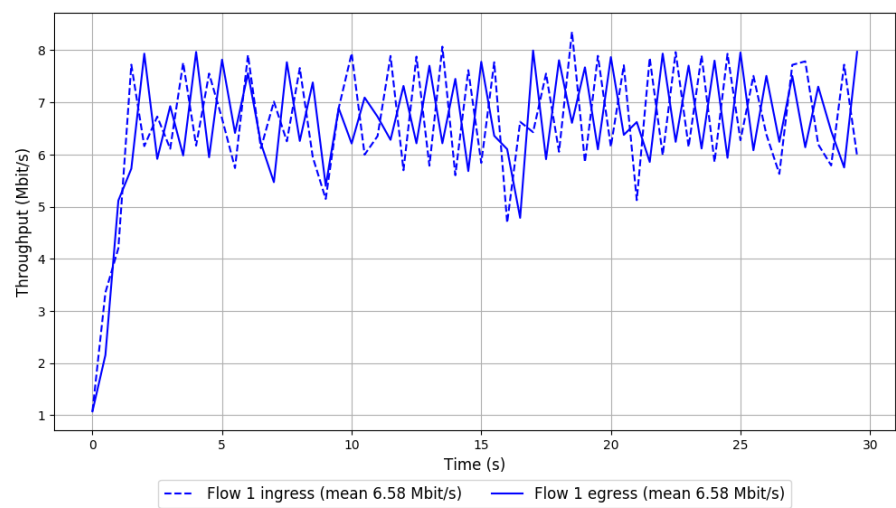
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 62.313 ms

Loss rate: 0.10%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-18 10:45:06

End at: 2017-09-18 10:45:36

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 62.251 ms

Loss rate: 0.00%

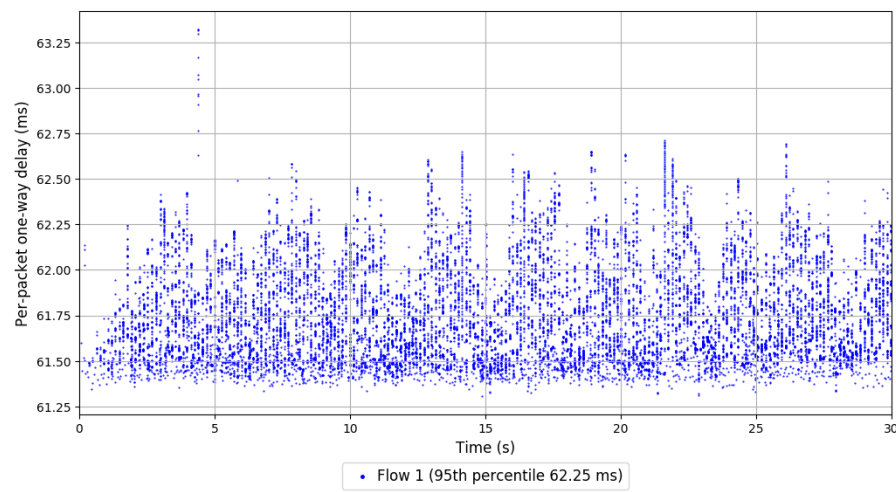
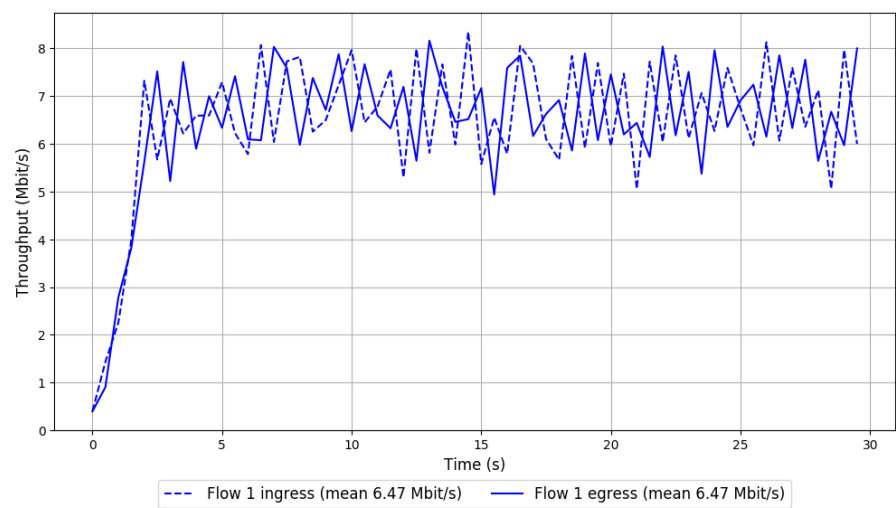
-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 62.251 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-18 10:56:33

End at: 2017-09-18 10:57:03

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 62.250 ms

Loss rate: 0.17%

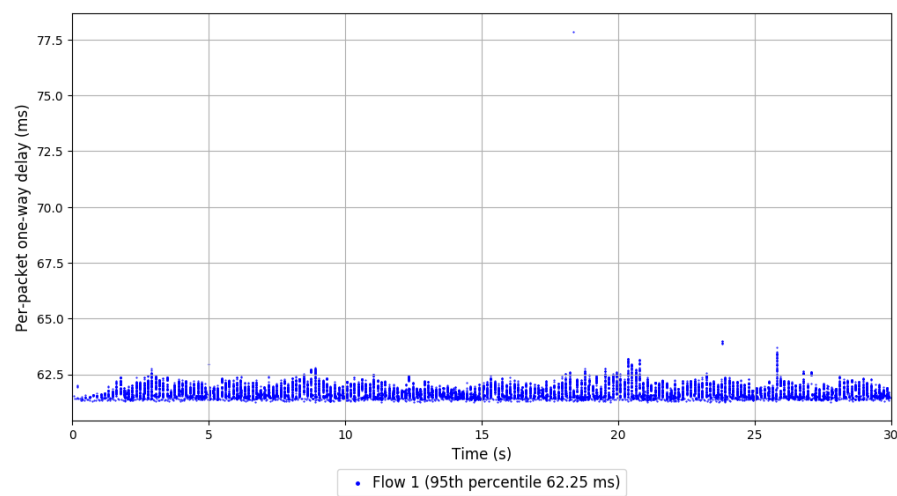
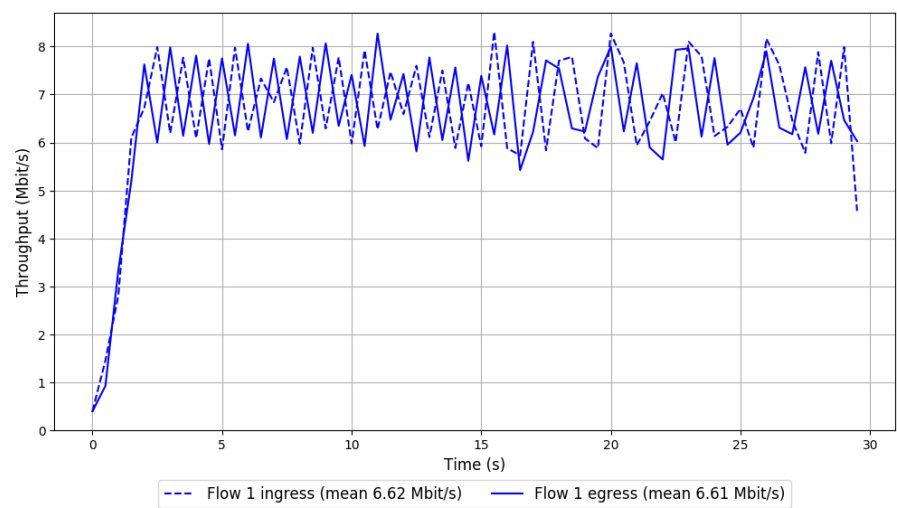
-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 62.250 ms

Loss rate: 0.17%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-18 11:07:58

End at: 2017-09-18 11:08:28

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 63.286 ms

Loss rate: 0.09%

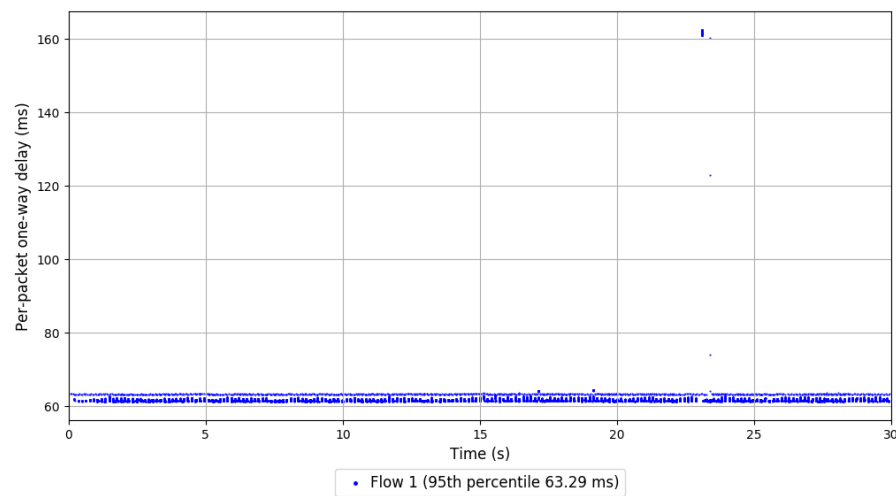
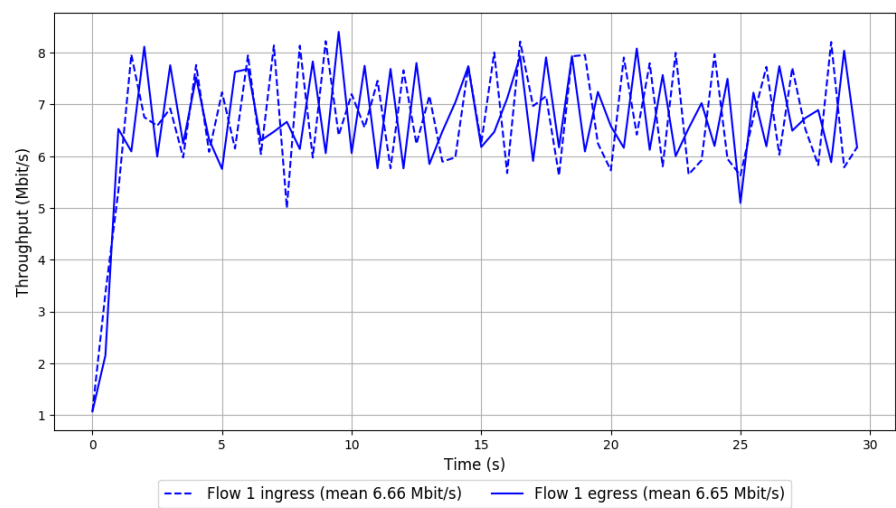
-- Flow 1:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 63.286 ms

Loss rate: 0.09%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-18 11:19:27

End at: 2017-09-18 11:19:57

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 63.090 ms

Loss rate: 0.09%

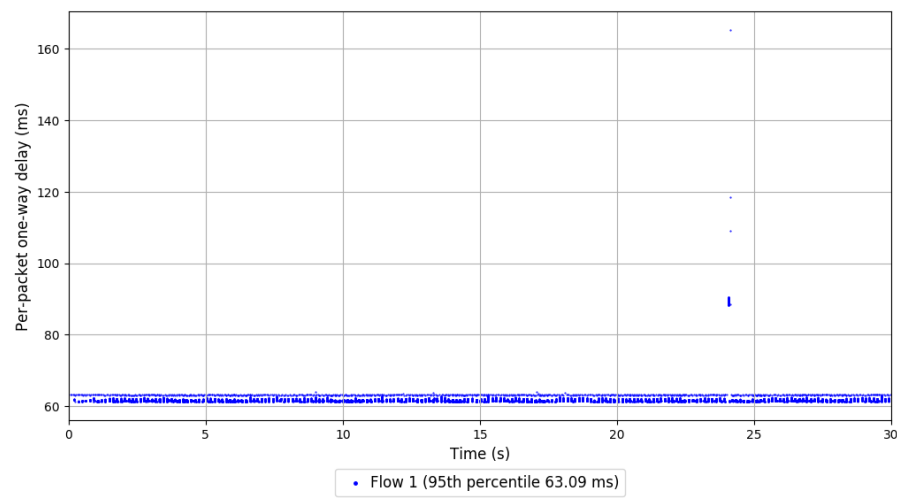
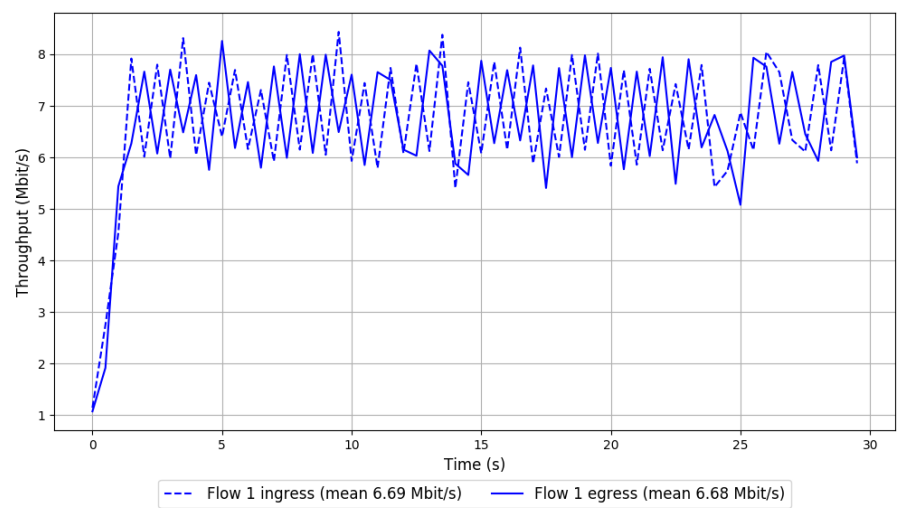
-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 63.090 ms

Loss rate: 0.09%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-18 11:30:43

End at: 2017-09-18 11:31:13

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 62.204 ms

Loss rate: 0.07%

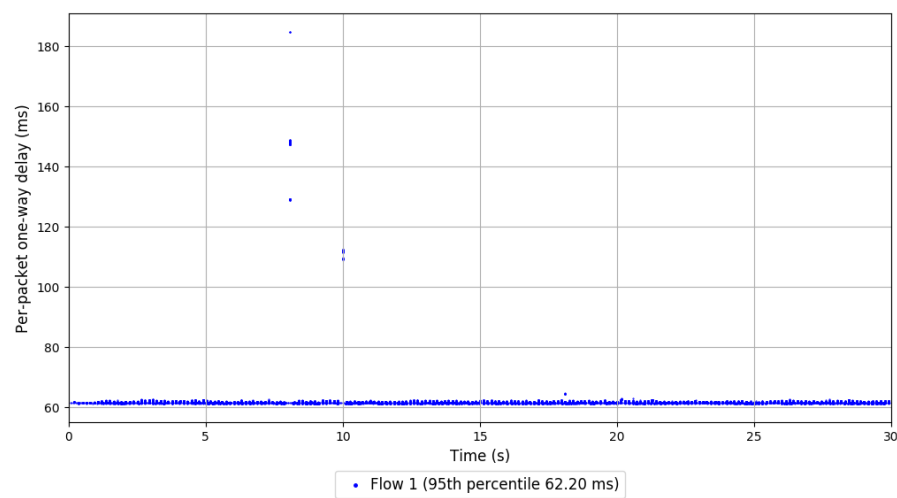
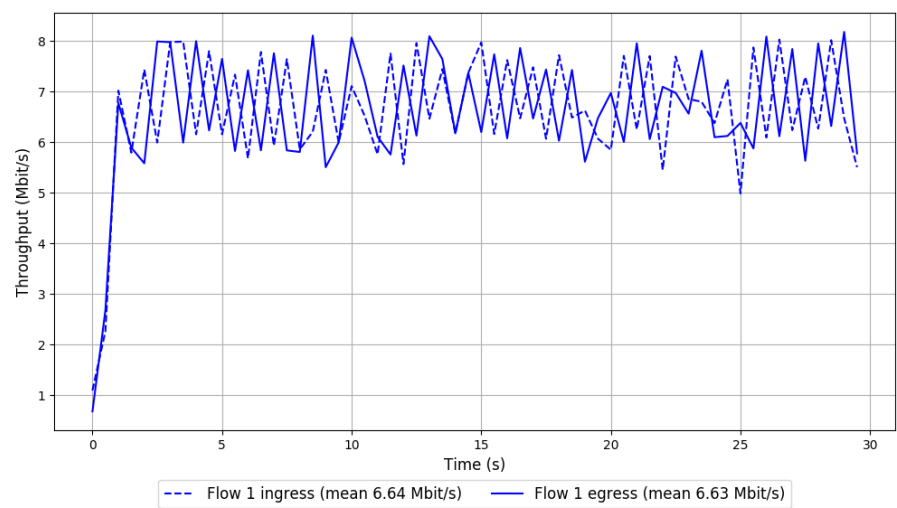
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 62.204 ms

Loss rate: 0.07%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-18 11:42:09

End at: 2017-09-18 11:42:39

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 63.253 ms

Loss rate: 0.07%

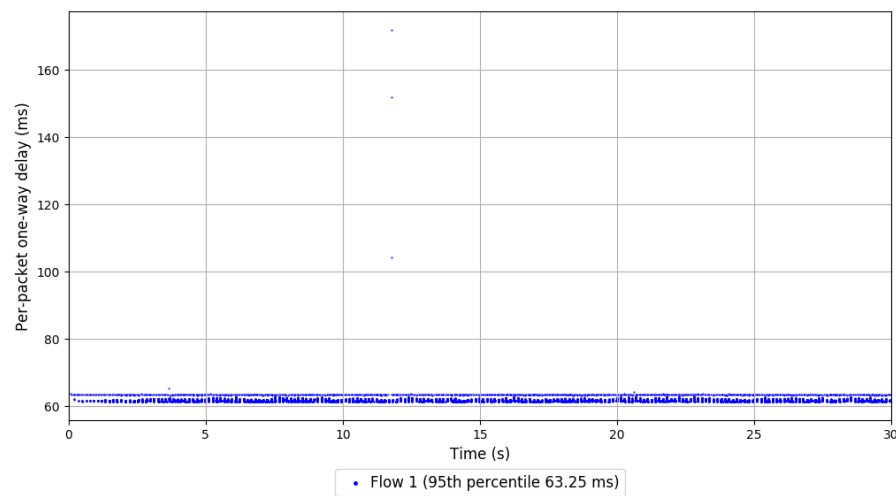
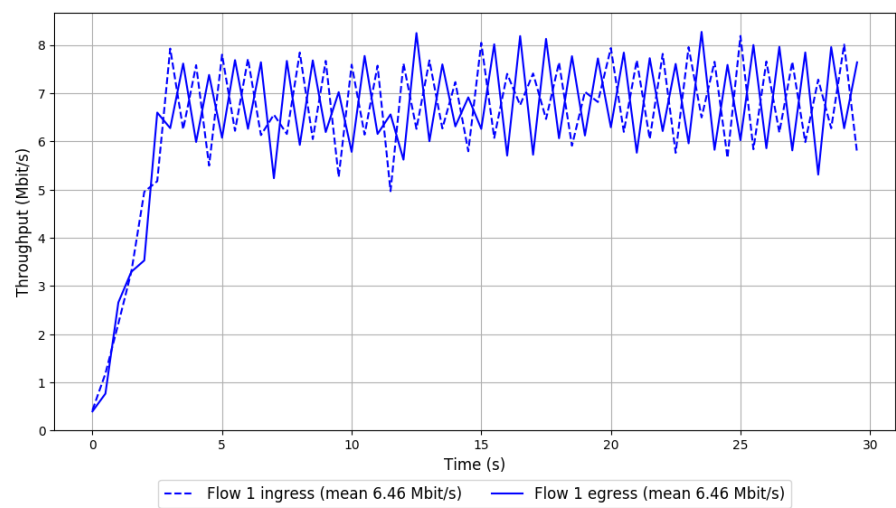
-- Flow 1:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 63.253 ms

Loss rate: 0.07%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-18 11:53:37

End at: 2017-09-18 11:54:07

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 62.163 ms

Loss rate: 0.08%

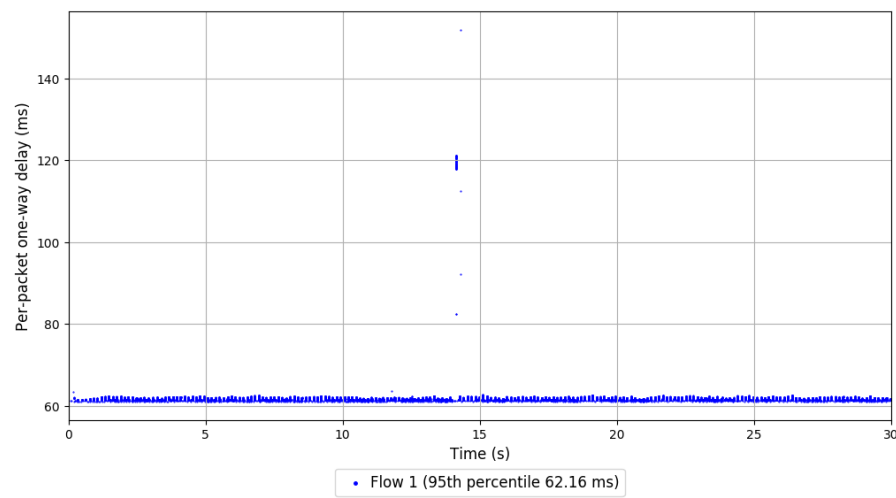
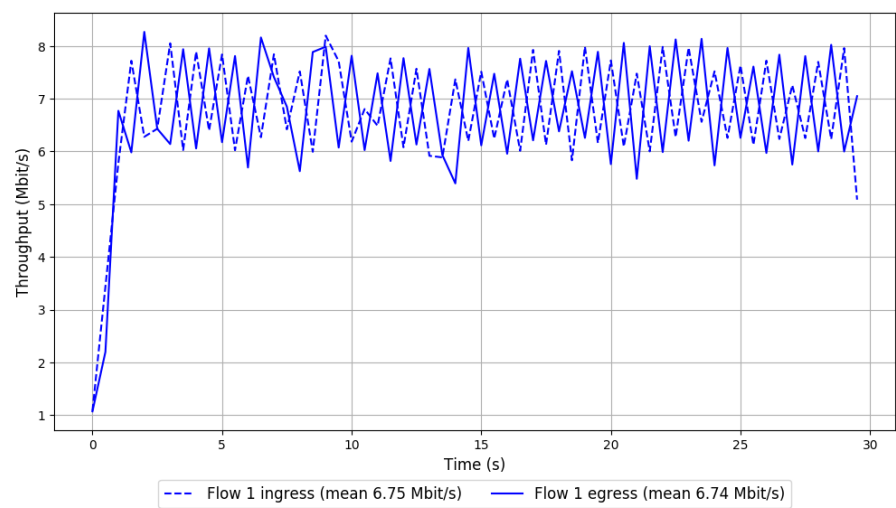
-- Flow 1:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 62.163 ms

Loss rate: 0.08%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-18 12:04:26

End at: 2017-09-18 12:04:56

Below is generated by plot.py at 2017-09-18 13:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 62.809 ms

Loss rate: 0.07%

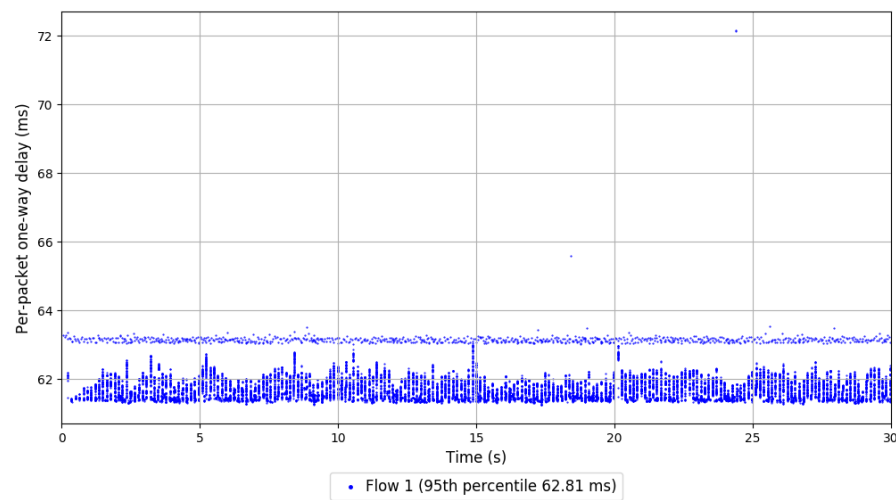
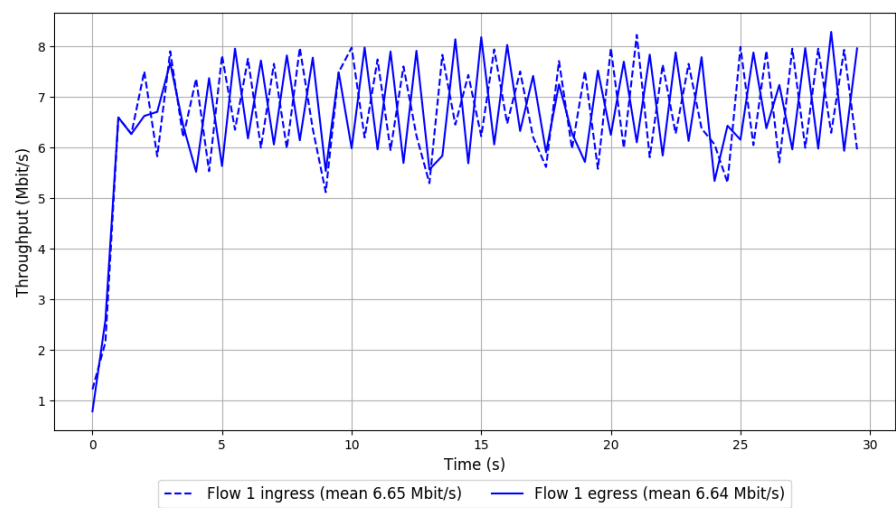
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 62.809 ms

Loss rate: 0.07%

Run 10: Report of Sprout — Data Link

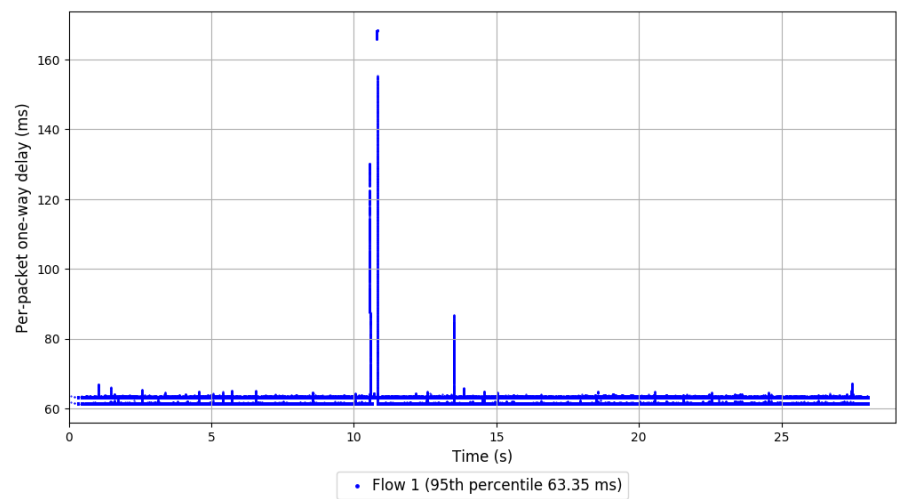
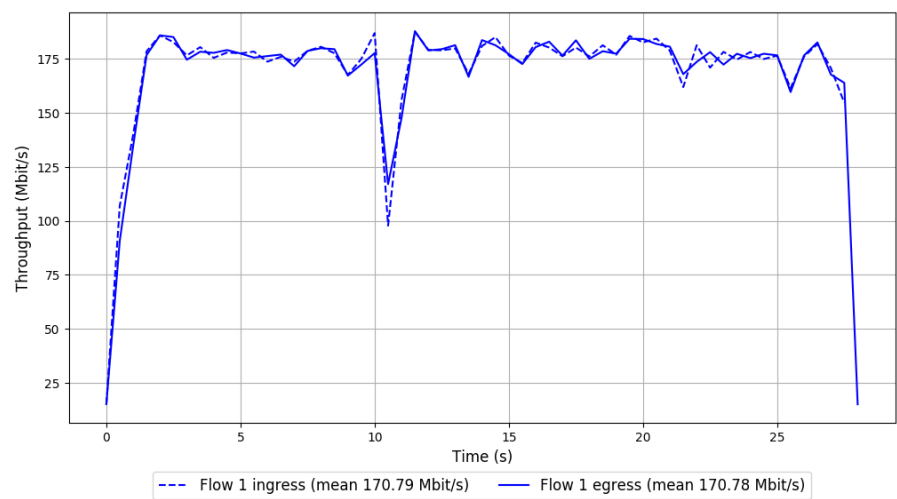


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 10:20:38
End at: 2017-09-18 10:21:08

# Below is generated by plot.py at 2017-09-18 13:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.78 Mbit/s
95th percentile per-packet one-way delay: 63.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.78 Mbit/s
95th percentile per-packet one-way delay: 63.349 ms
Loss rate: 0.00%
```

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

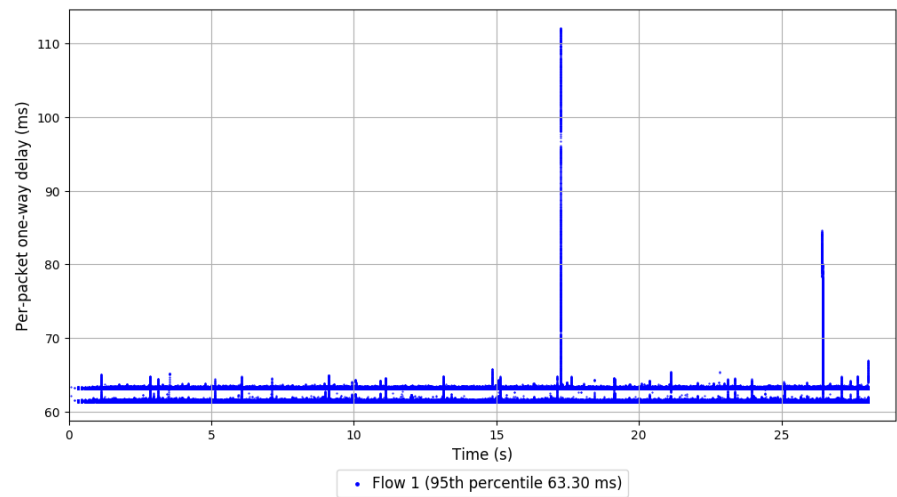
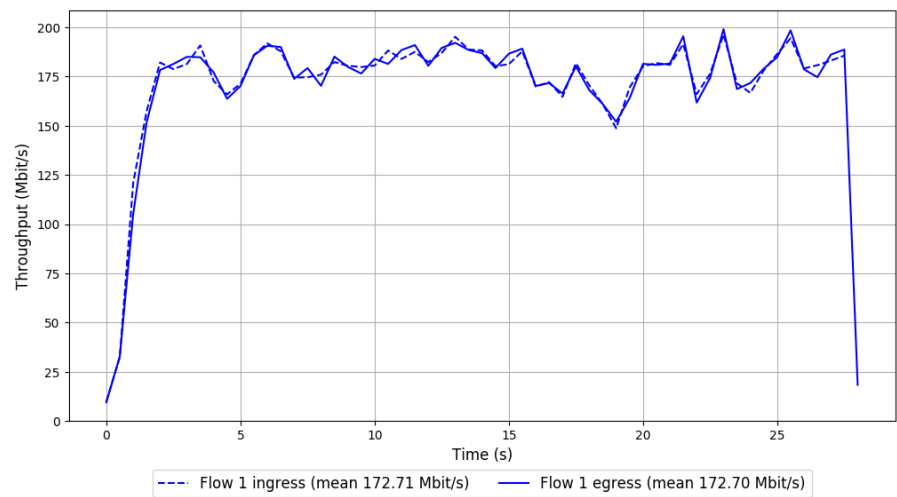


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 10:32:02
End at: 2017-09-18 10:32:32

# Below is generated by plot.py at 2017-09-18 13:54:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.70 Mbit/s
95th percentile per-packet one-way delay: 63.297 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.70 Mbit/s
95th percentile per-packet one-way delay: 63.297 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 10:43:30

End at: 2017-09-18 10:44:00

Below is generated by plot.py at 2017-09-18 13:54:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.40 Mbit/s

95th percentile per-packet one-way delay: 61.638 ms

Loss rate: 0.00%

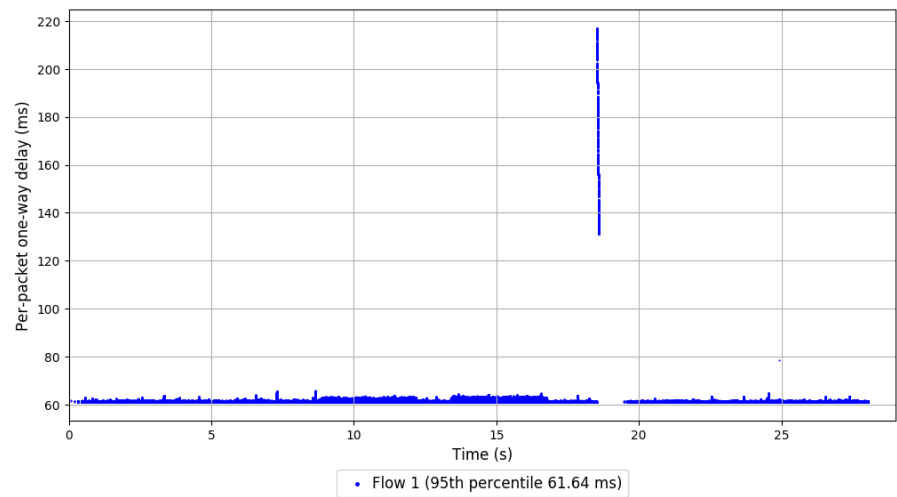
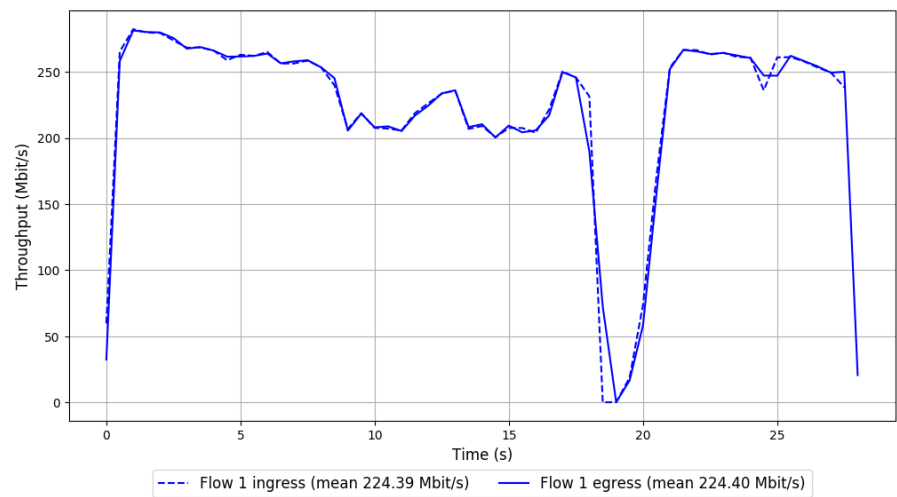
-- Flow 1:

Average throughput: 224.40 Mbit/s

95th percentile per-packet one-way delay: 61.638 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 10:55:07

End at: 2017-09-18 10:55:37

Below is generated by plot.py at 2017-09-18 13:54:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.20 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

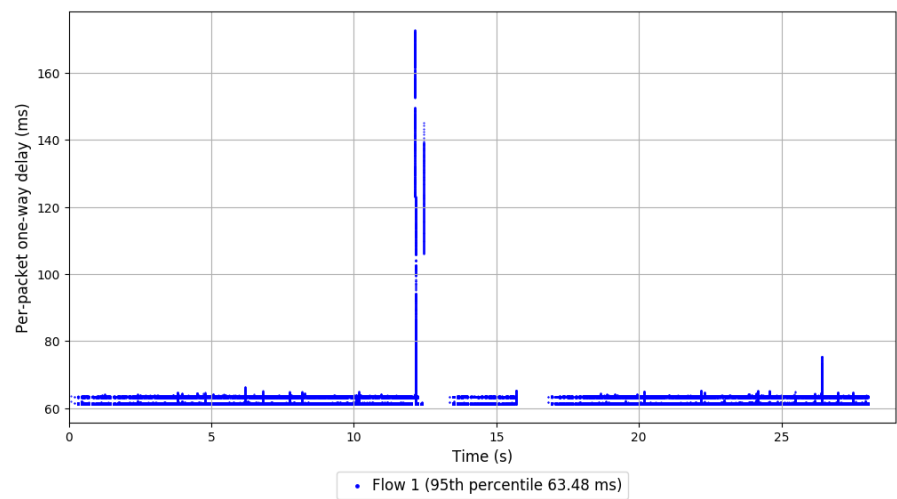
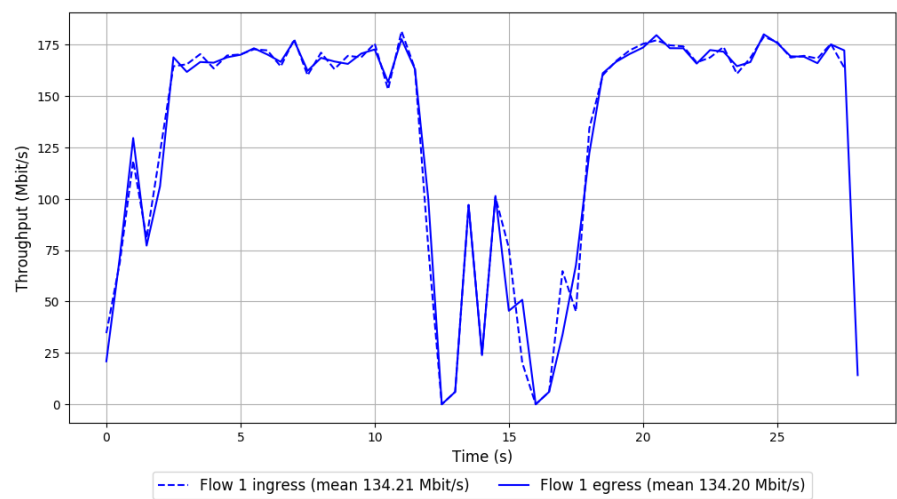
-- Flow 1:

Average throughput: 134.20 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

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

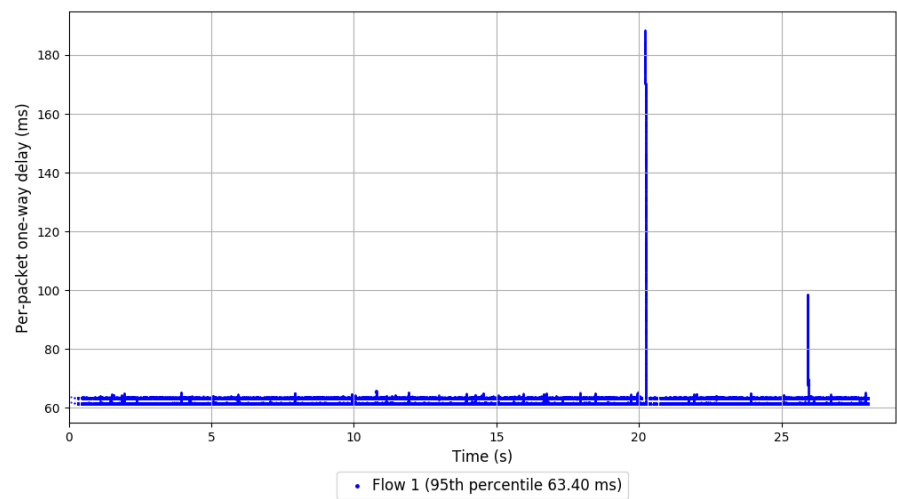
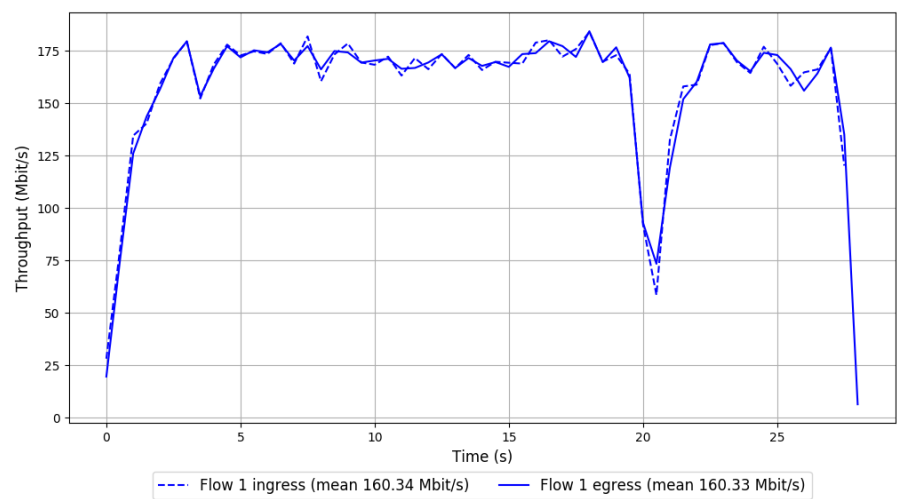


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 11:06:29
End at: 2017-09-18 11:06:59

# Below is generated by plot.py at 2017-09-18 13:54:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.33 Mbit/s
95th percentile per-packet one-way delay: 63.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 160.33 Mbit/s
95th percentile per-packet one-way delay: 63.402 ms
Loss rate: 0.00%
```

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

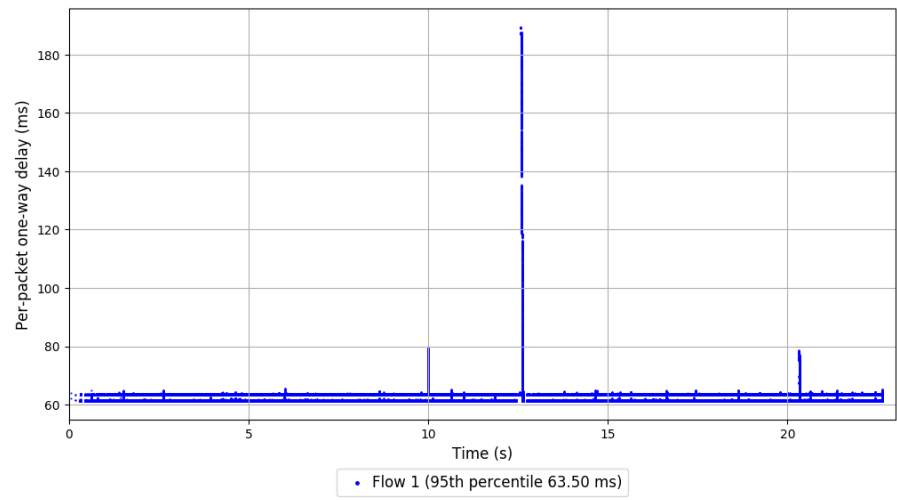
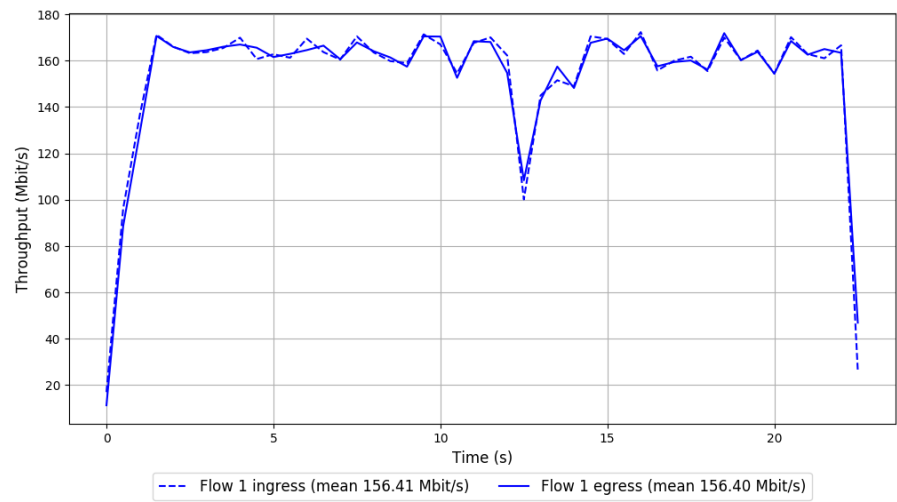


Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 11:18:01

End at: 2017-09-18 11:18:31

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 11:29:15

End at: 2017-09-18 11:29:45

Below is generated by plot.py at 2017-09-18 13:56:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.82 Mbit/s

95th percentile per-packet one-way delay: 63.488 ms

Loss rate: 0.00%

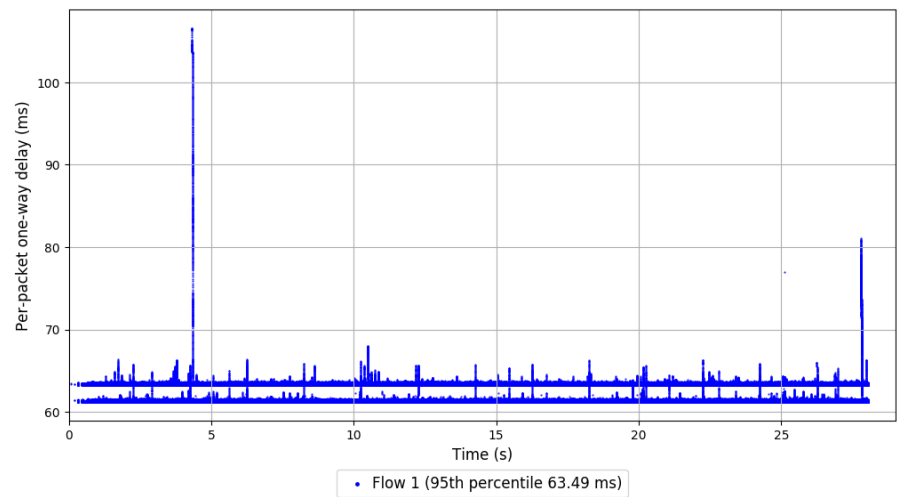
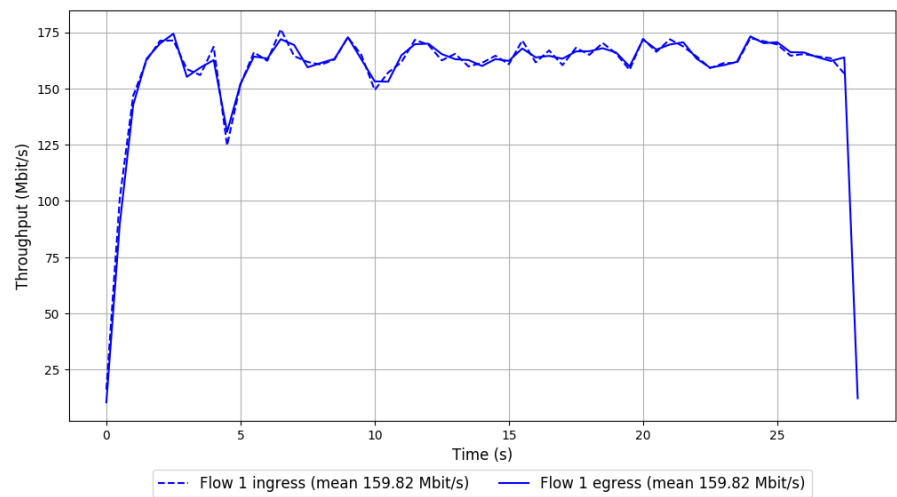
-- Flow 1:

Average throughput: 159.82 Mbit/s

95th percentile per-packet one-way delay: 63.488 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-18 11:40:40

End at: 2017-09-18 11:41:10

Below is generated by plot.py at 2017-09-18 13:56:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.99 Mbit/s

95th percentile per-packet one-way delay: 63.406 ms

Loss rate: 0.00%

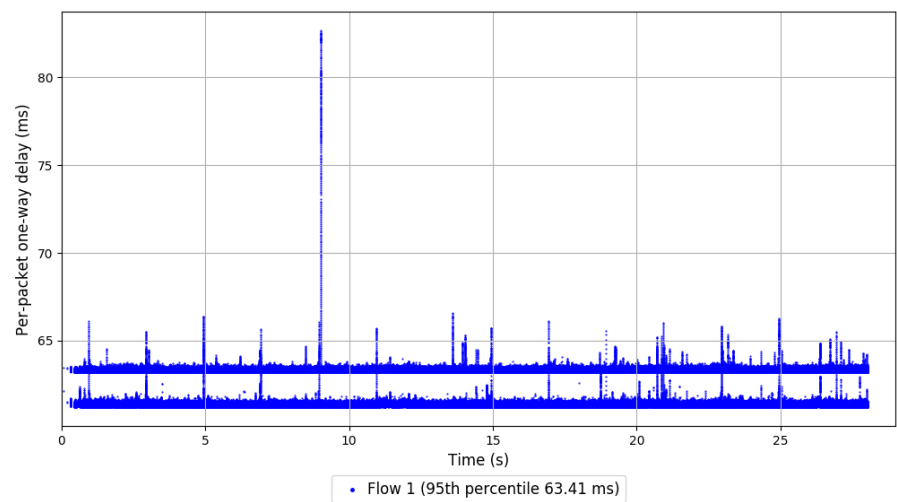
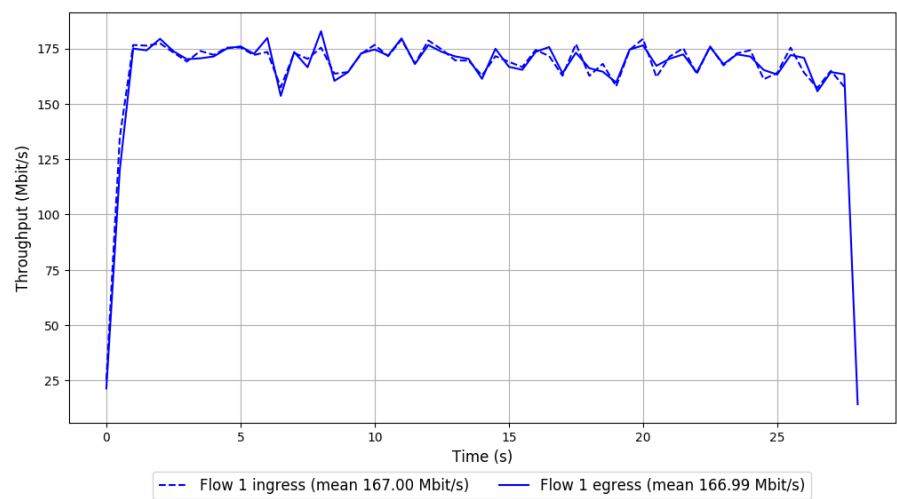
-- Flow 1:

Average throughput: 166.99 Mbit/s

95th percentile per-packet one-way delay: 63.406 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 11:52:08

End at: 2017-09-18 11:52:38

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.12 Mbit/s

95th percentile per-packet one-way delay: 63.378 ms

Loss rate: 0.00%

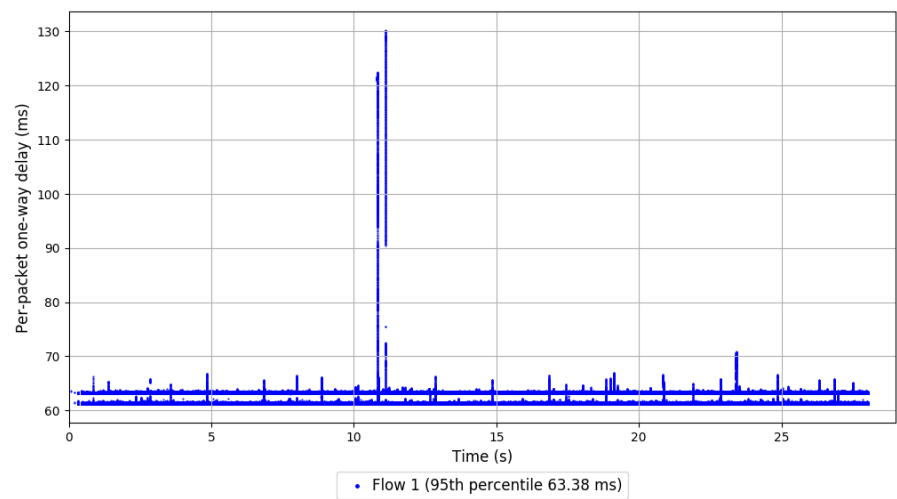
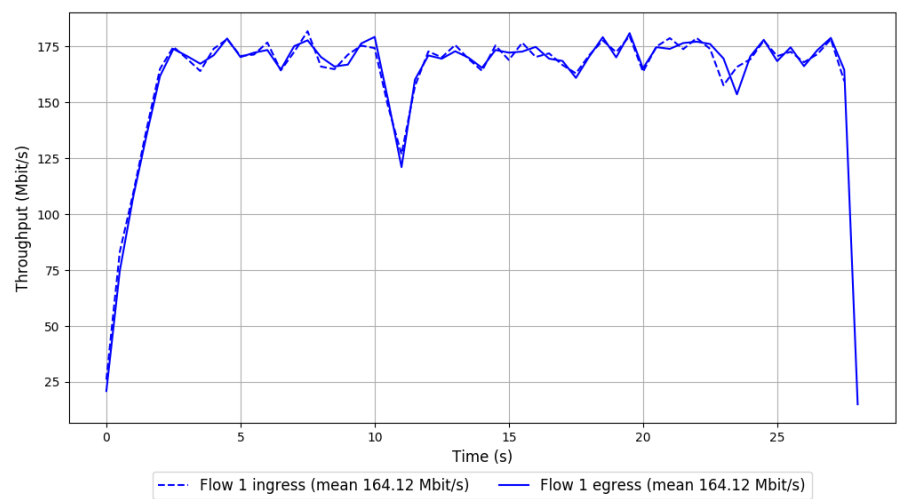
-- Flow 1:

Average throughput: 164.12 Mbit/s

95th percentile per-packet one-way delay: 63.378 ms

Loss rate: 0.00%

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

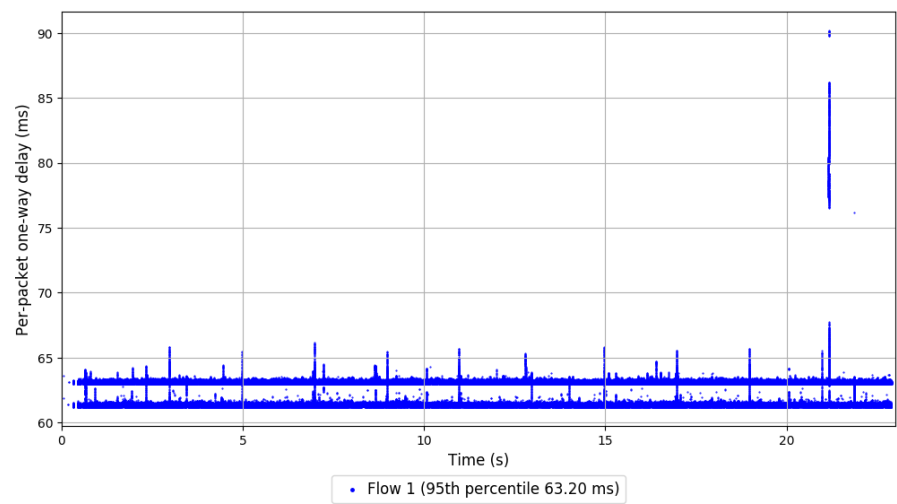
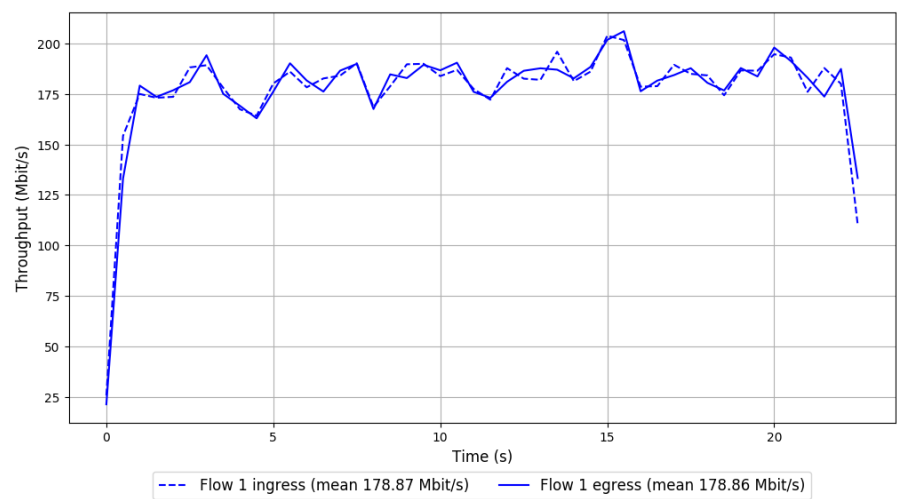


Run 10: Statistics of TaoVA-100x

Start at: 2017-09-18 12:02:59

End at: 2017-09-18 12:03:29

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-18 10:16:34

End at: 2017-09-18 10:17:04

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 64.100 ms

Loss rate: 0.00%

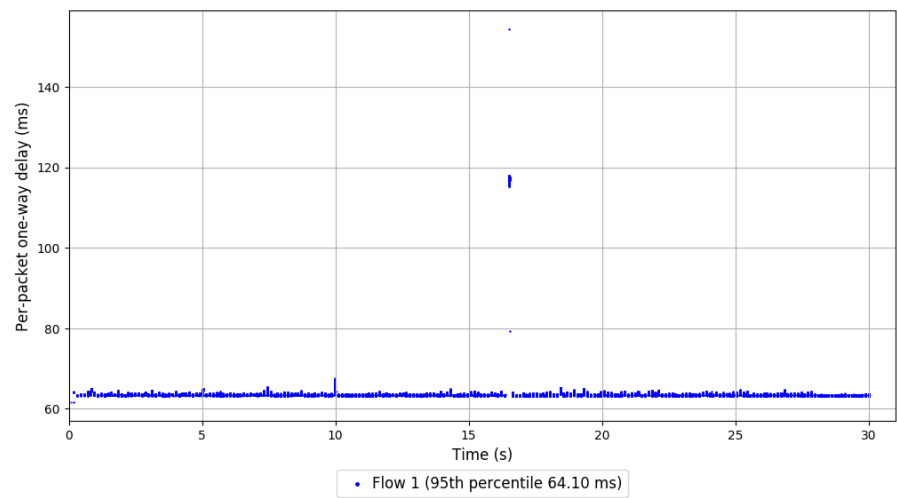
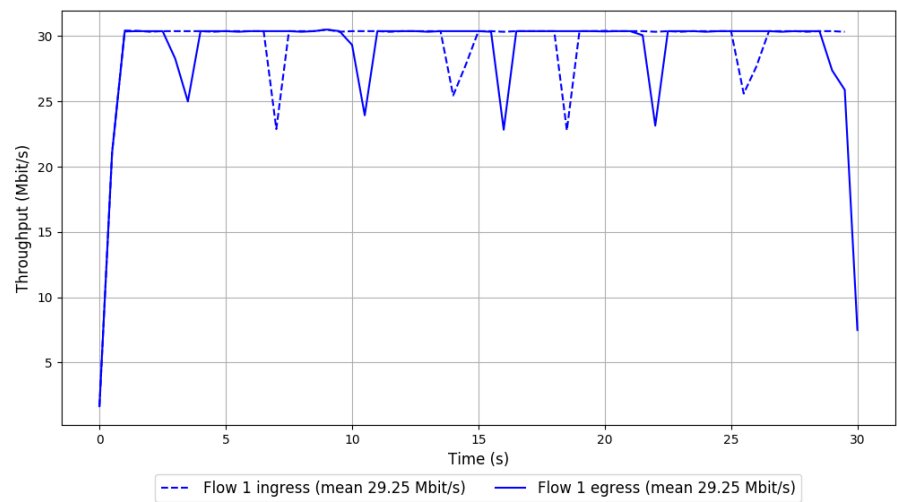
-- Flow 1:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 64.100 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 10:27:55

End at: 2017-09-18 10:28:25

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.10 Mbit/s

95th percentile per-packet one-way delay: 64.341 ms

Loss rate: 0.00%

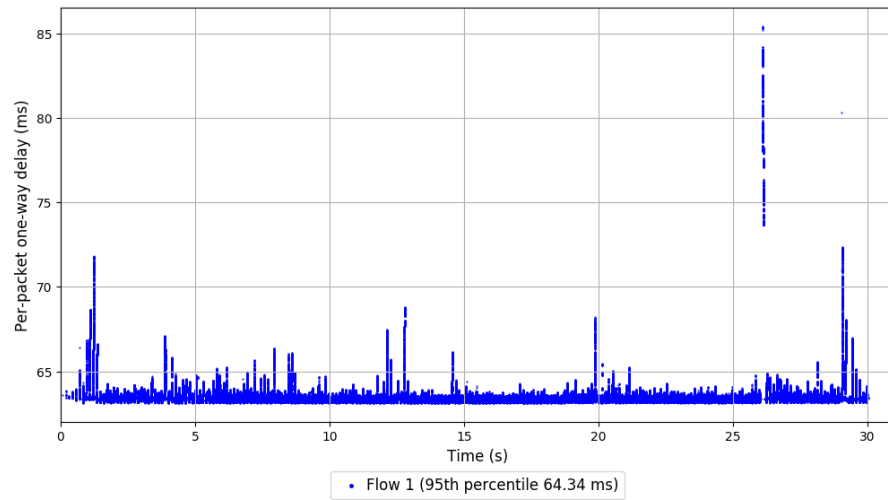
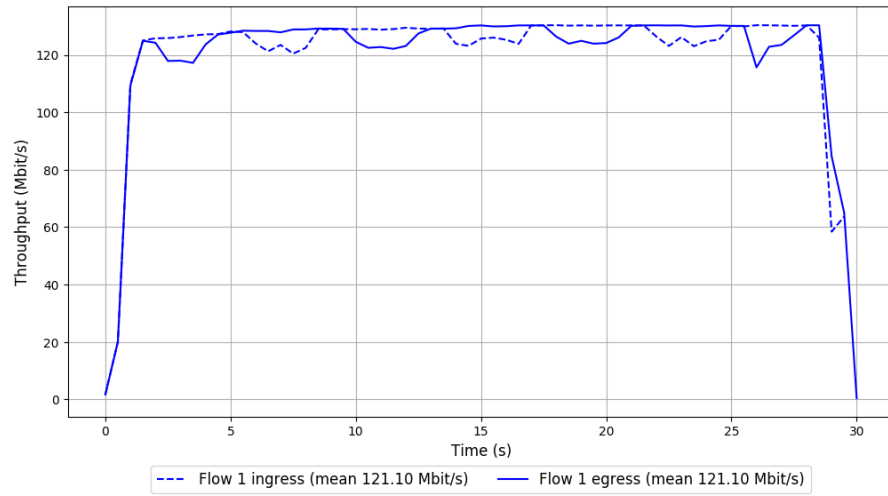
-- Flow 1:

Average throughput: 121.10 Mbit/s

95th percentile per-packet one-way delay: 64.341 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 10:39:23

End at: 2017-09-18 10:39:53

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 66.585 ms

Loss rate: 0.00%

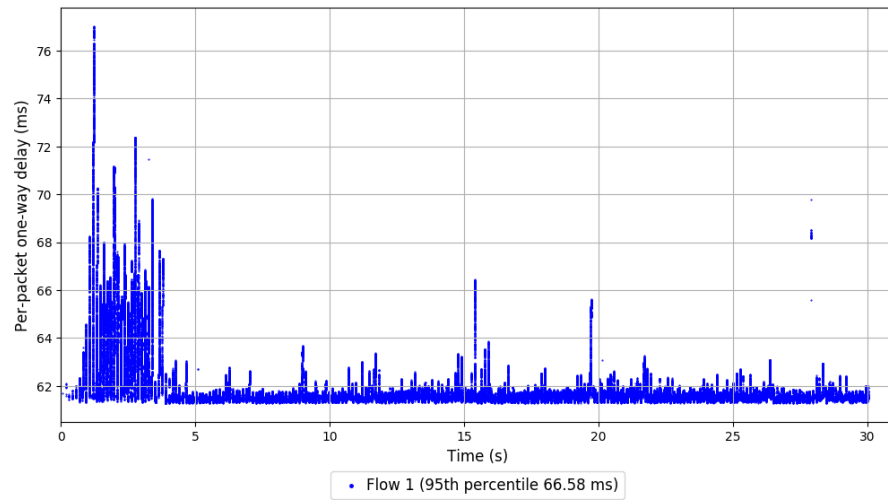
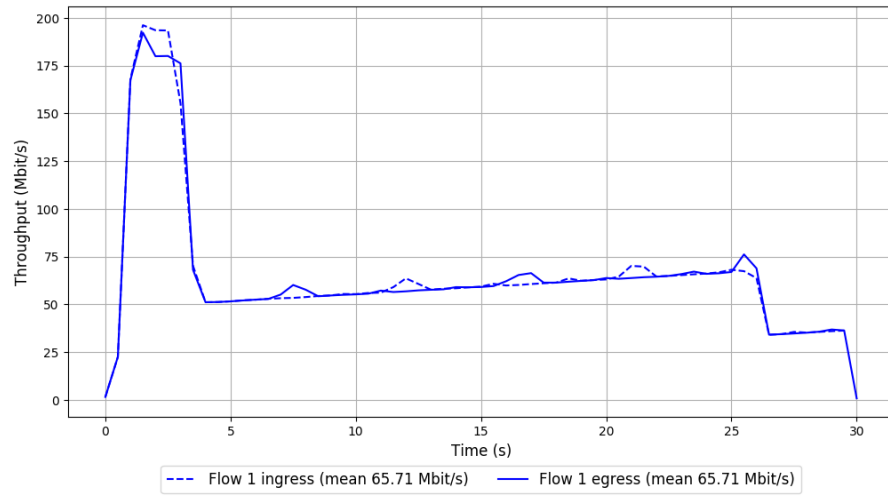
-- Flow 1:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 66.585 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 10:50:54

End at: 2017-09-18 10:51:24

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.49 Mbit/s

95th percentile per-packet one-way delay: 62.263 ms

Loss rate: 0.00%

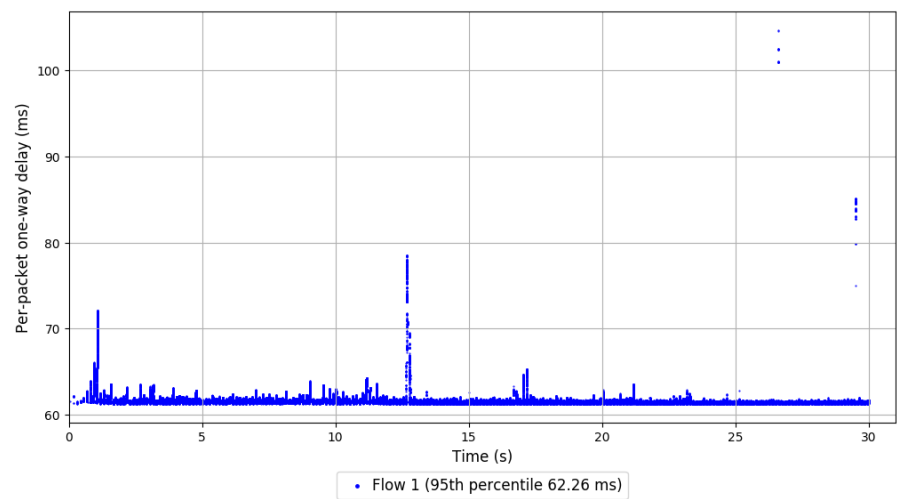
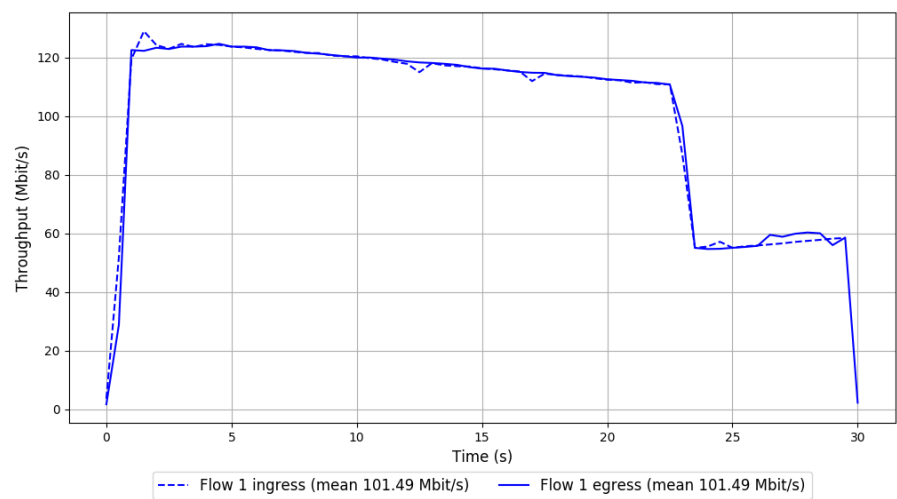
-- Flow 1:

Average throughput: 101.49 Mbit/s

95th percentile per-packet one-way delay: 62.263 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-18 11:02:17

End at: 2017-09-18 11:02:47

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 62.433 ms

Loss rate: 0.32%

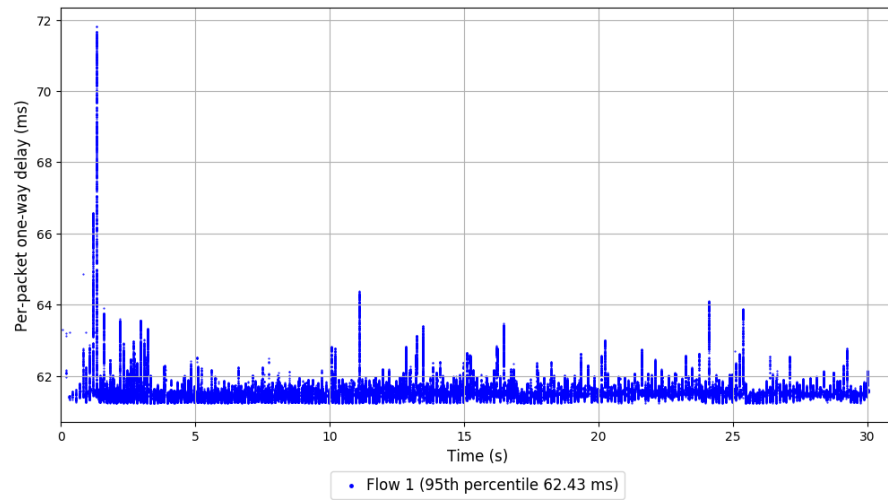
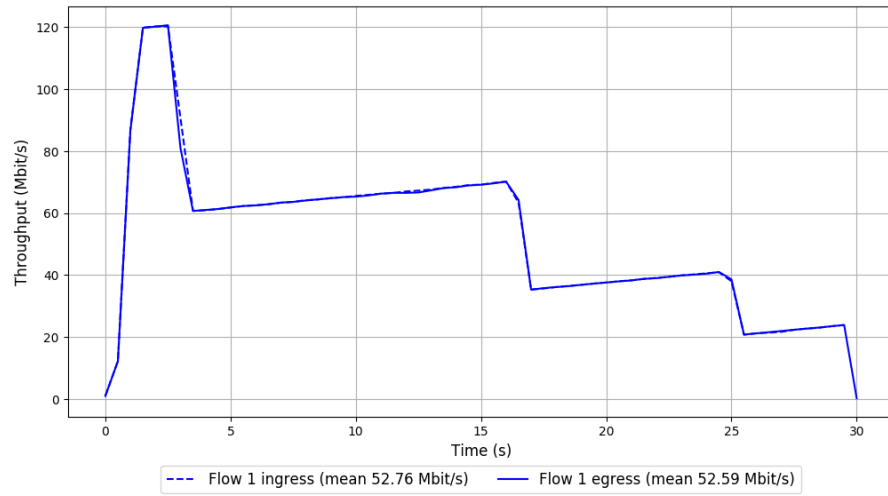
-- Flow 1:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 62.433 ms

Loss rate: 0.32%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 11:13:51

End at: 2017-09-18 11:14:21

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 63.774 ms

Loss rate: 0.00%

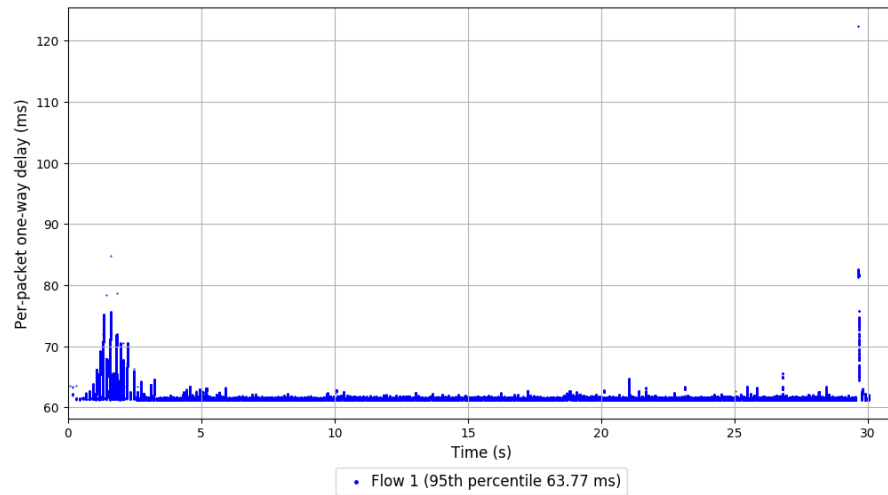
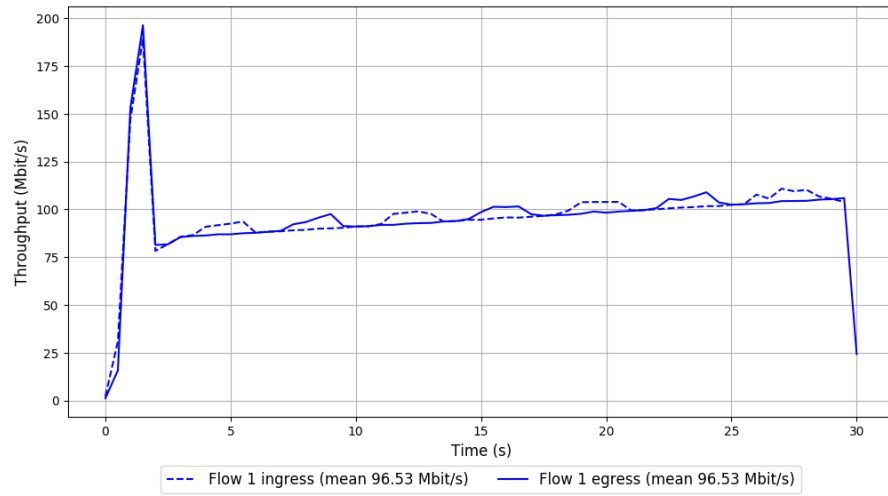
-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 63.774 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-18 11:25:14

End at: 2017-09-18 11:25:44

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.81 Mbit/s

95th percentile per-packet one-way delay: 63.081 ms

Loss rate: 0.00%

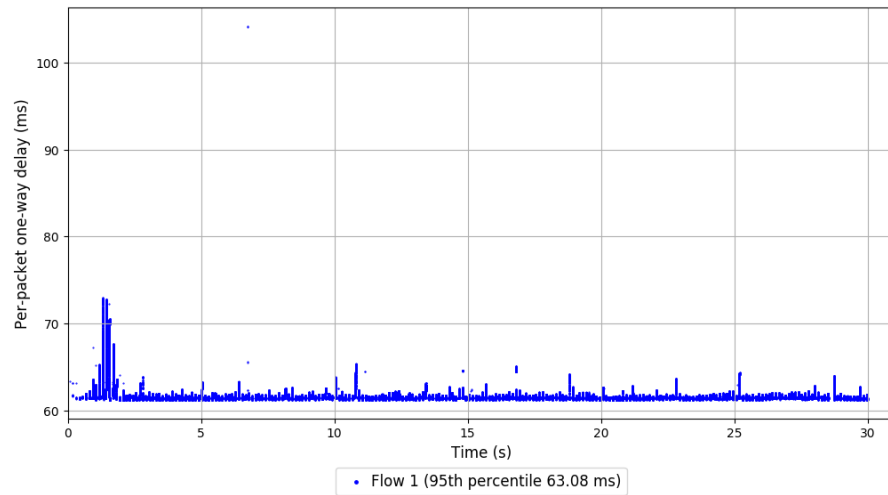
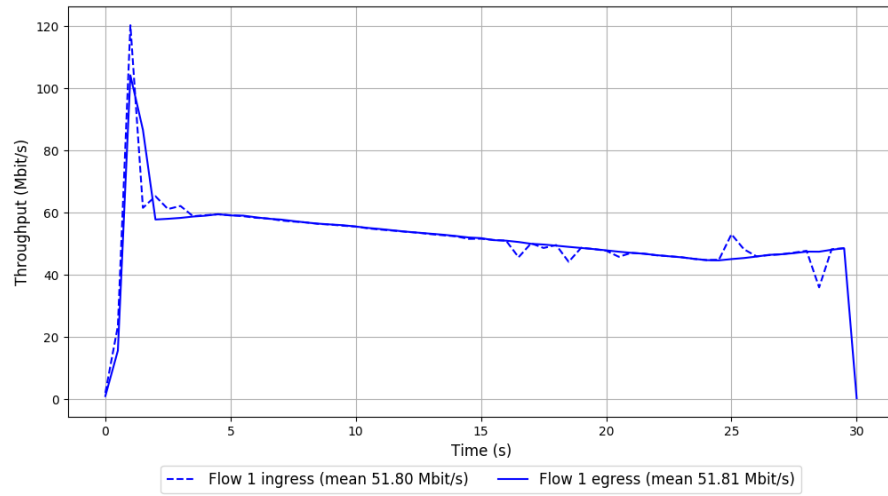
-- Flow 1:

Average throughput: 51.81 Mbit/s

95th percentile per-packet one-way delay: 63.081 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-18 11:36:30

End at: 2017-09-18 11:37:00

Below is generated by plot.py at 2017-09-18 13:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.42 Mbit/s

95th percentile per-packet one-way delay: 62.507 ms

Loss rate: 0.00%

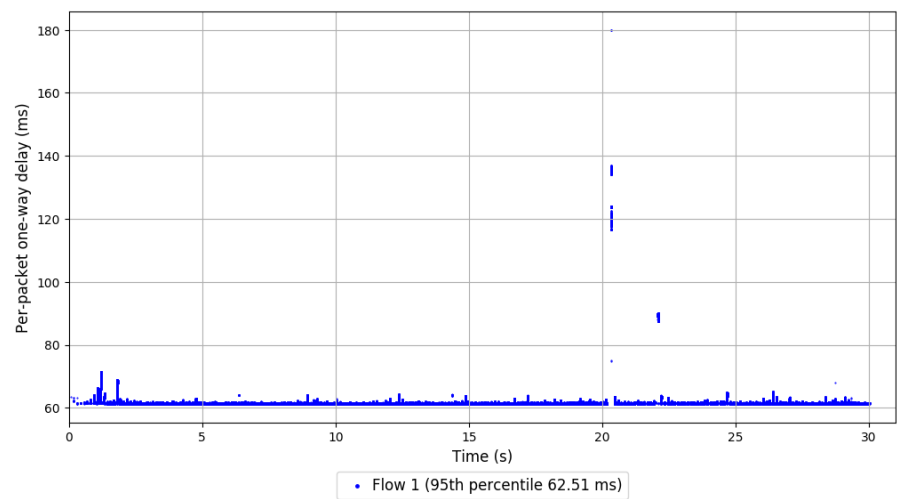
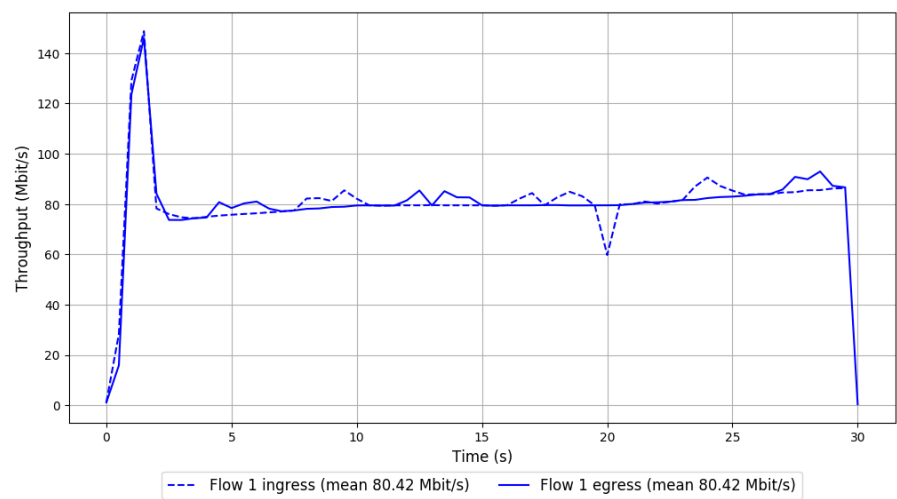
-- Flow 1:

Average throughput: 80.42 Mbit/s

95th percentile per-packet one-way delay: 62.507 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 11:47:58

End at: 2017-09-18 11:48:28

Below is generated by plot.py at 2017-09-18 13:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.63 Mbit/s

95th percentile per-packet one-way delay: 62.647 ms

Loss rate: 0.00%

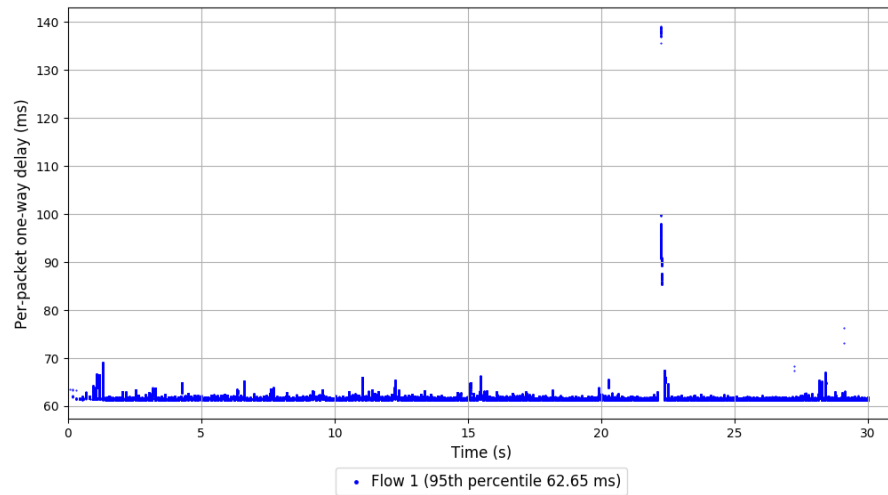
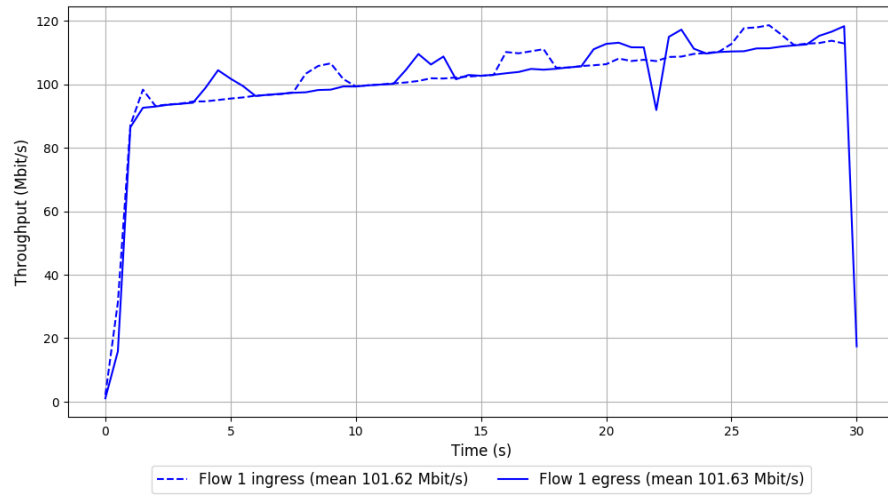
-- Flow 1:

Average throughput: 101.63 Mbit/s

95th percentile per-packet one-way delay: 62.647 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-18 11:59:20

End at: 2017-09-18 11:59:50

Below is generated by plot.py at 2017-09-18 13:57:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 62.756 ms

Loss rate: 0.01%

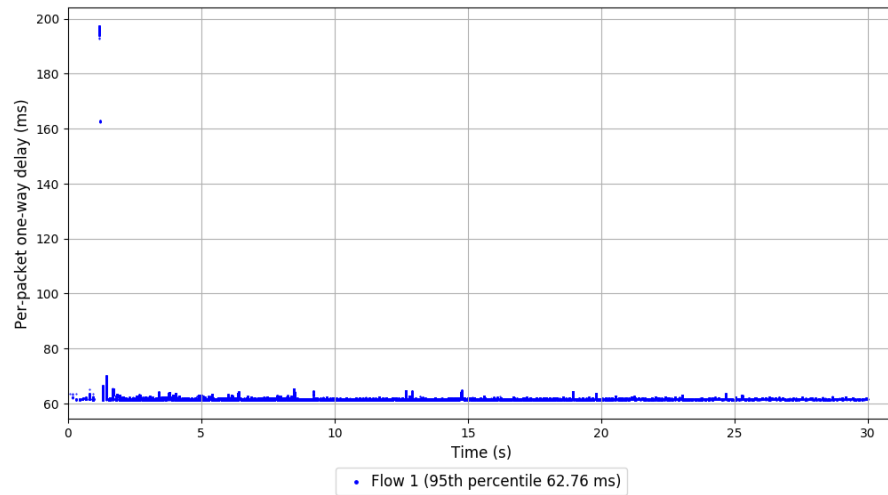
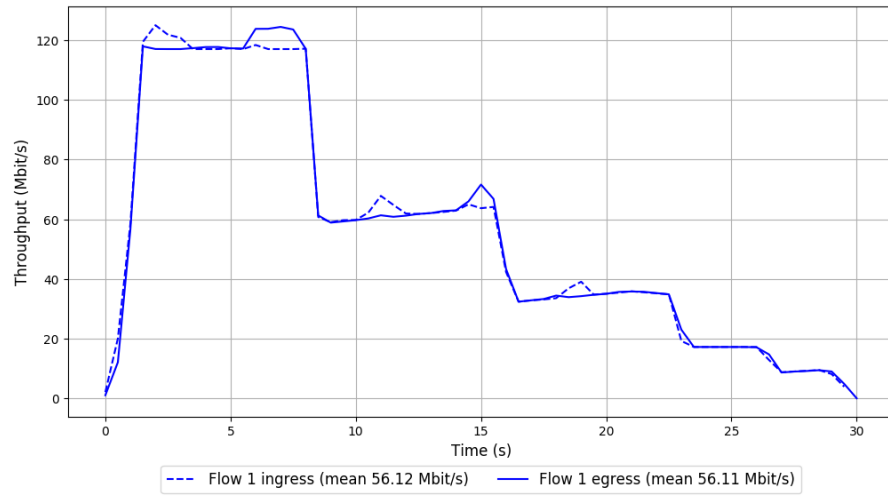
-- Flow 1:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 62.756 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-18 10:17:57

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

Below is generated by plot.py at 2017-09-18 14:00:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.91 Mbit/s

95th percentile per-packet one-way delay: 95.292 ms

Loss rate: 0.16%

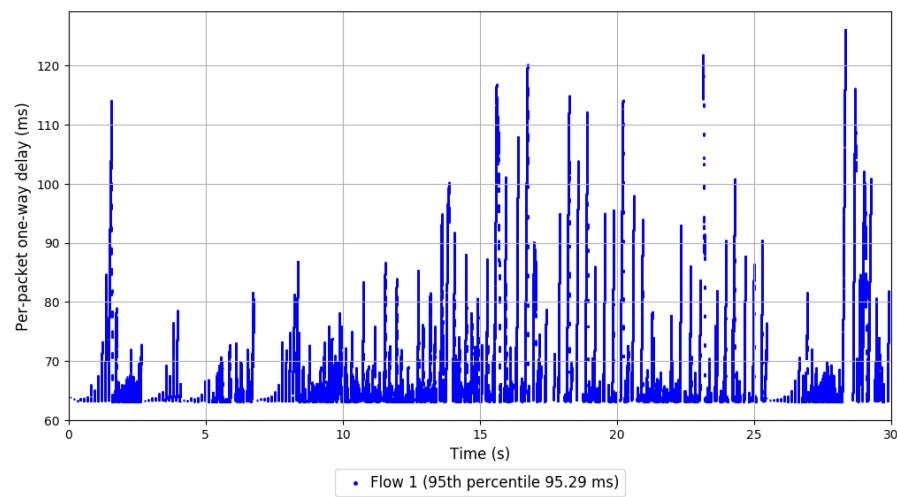
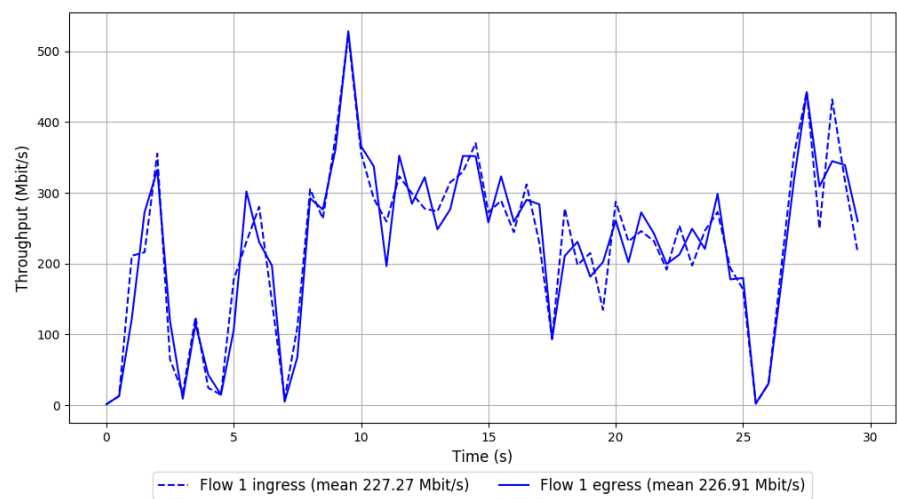
-- Flow 1:

Average throughput: 226.91 Mbit/s

95th percentile per-packet one-way delay: 95.292 ms

Loss rate: 0.16%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-18 10:29:22

End at: 2017-09-18 10:29:52

Below is generated by plot.py at 2017-09-18 14:00:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.70 Mbit/s

95th percentile per-packet one-way delay: 80.334 ms

Loss rate: 0.01%

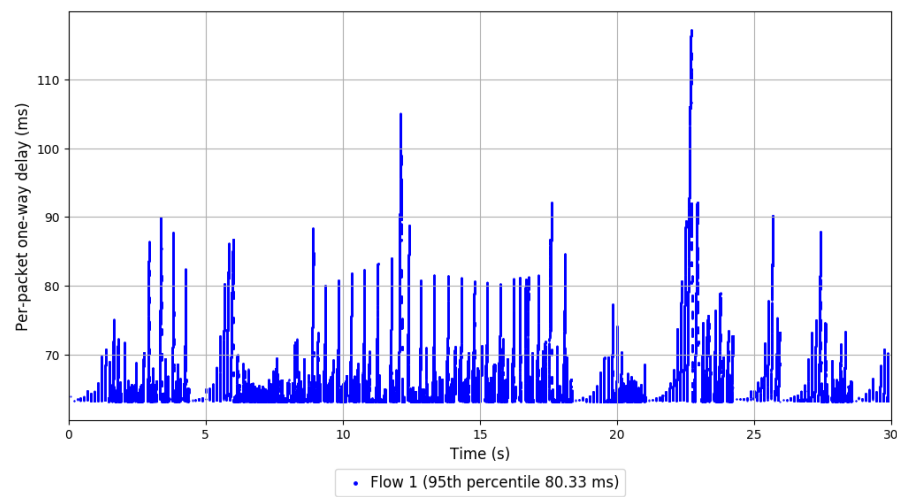
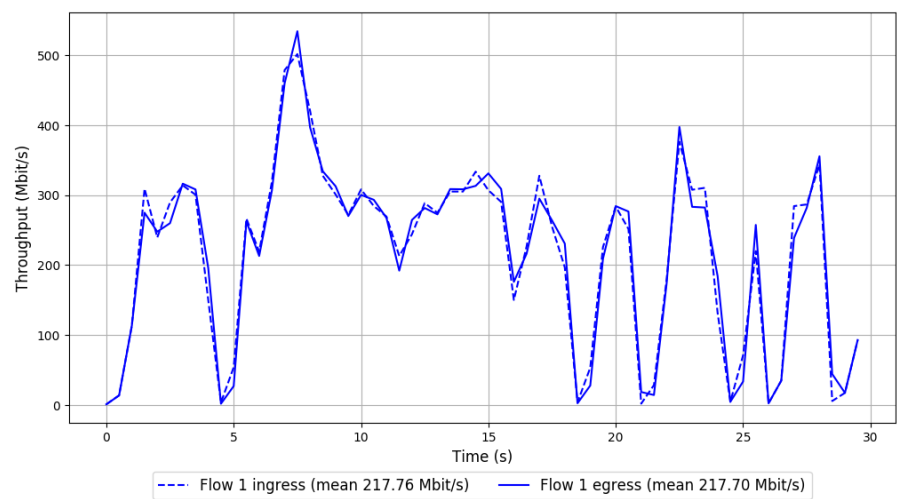
-- Flow 1:

Average throughput: 217.70 Mbit/s

95th percentile per-packet one-way delay: 80.334 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-18 10:40:48

End at: 2017-09-18 10:41:18

Below is generated by plot.py at 2017-09-18 14:00:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.09 Mbit/s

95th percentile per-packet one-way delay: 91.050 ms

Loss rate: 0.07%

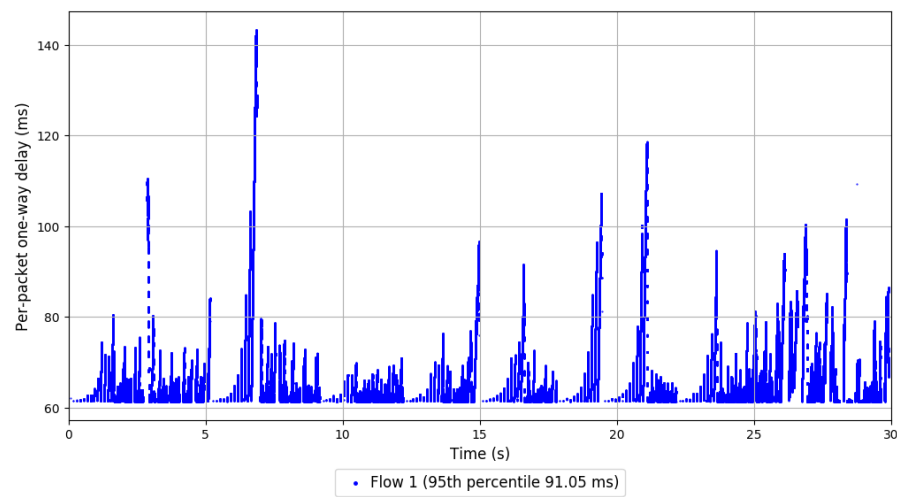
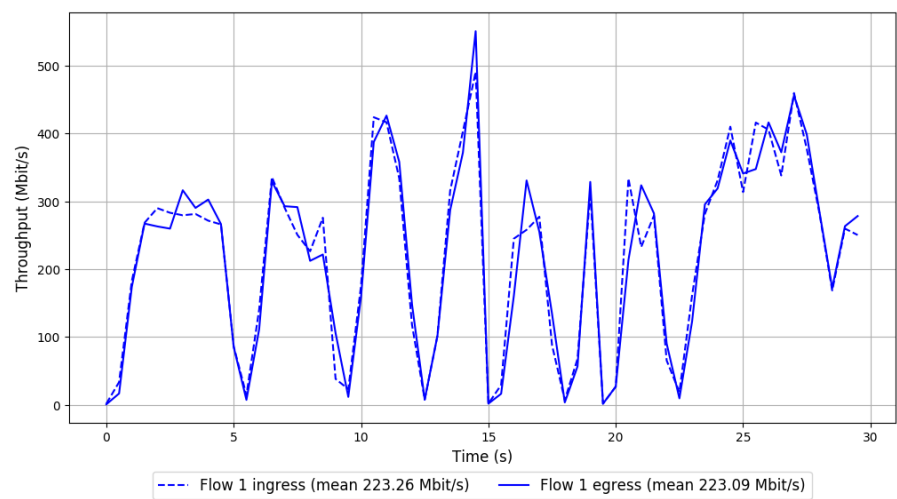
-- Flow 1:

Average throughput: 223.09 Mbit/s

95th percentile per-packet one-way delay: 91.050 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-18 10:52:21

End at: 2017-09-18 10:52:51

Below is generated by plot.py at 2017-09-18 14:01:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.18 Mbit/s

95th percentile per-packet one-way delay: 81.997 ms

Loss rate: 0.03%

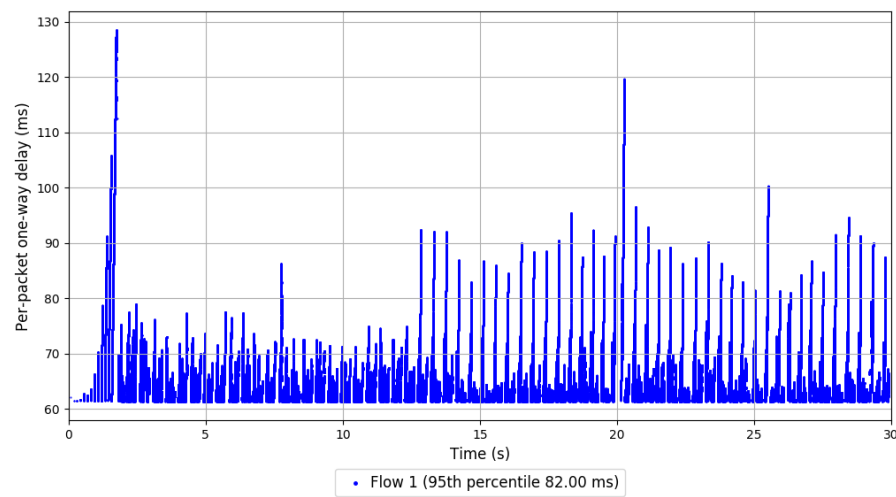
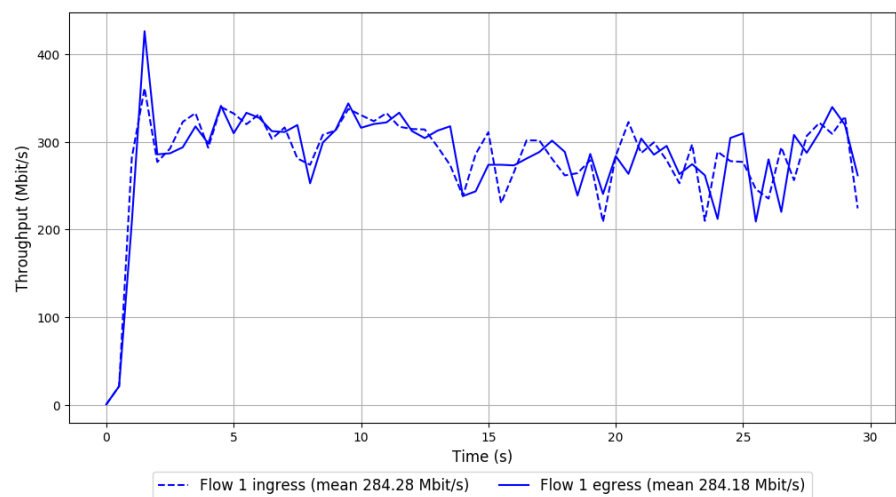
-- Flow 1:

Average throughput: 284.18 Mbit/s

95th percentile per-packet one-way delay: 81.997 ms

Loss rate: 0.03%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-18 11:03:41

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

Below is generated by plot.py at 2017-09-18 14:02:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.59 Mbit/s

95th percentile per-packet one-way delay: 95.988 ms

Loss rate: 0.01%

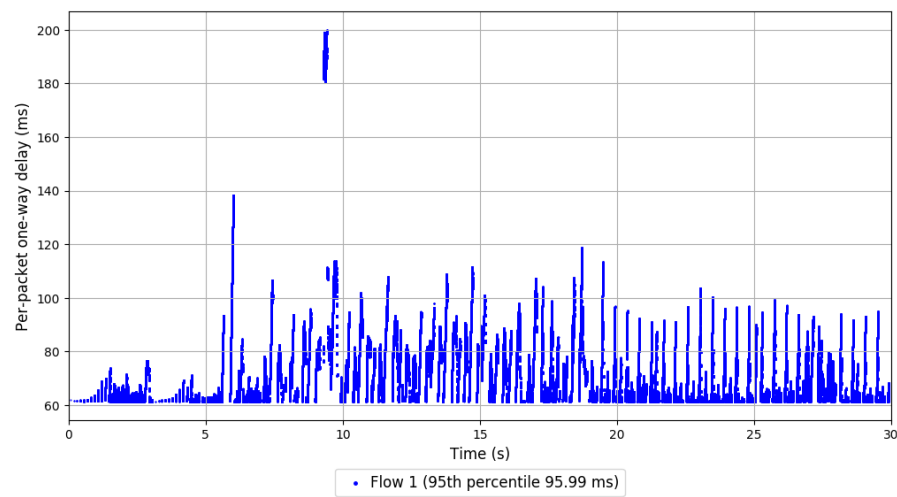
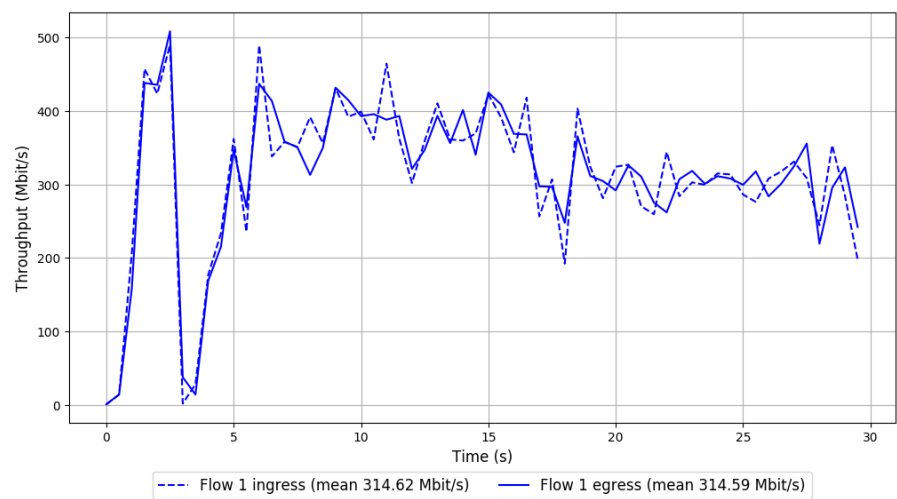
-- Flow 1:

Average throughput: 314.59 Mbit/s

95th percentile per-packet one-way delay: 95.988 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-18 11:15:18

End at: 2017-09-18 11:15:48

Below is generated by plot.py at 2017-09-18 14:02:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.78 Mbit/s

95th percentile per-packet one-way delay: 88.668 ms

Loss rate: 0.00%

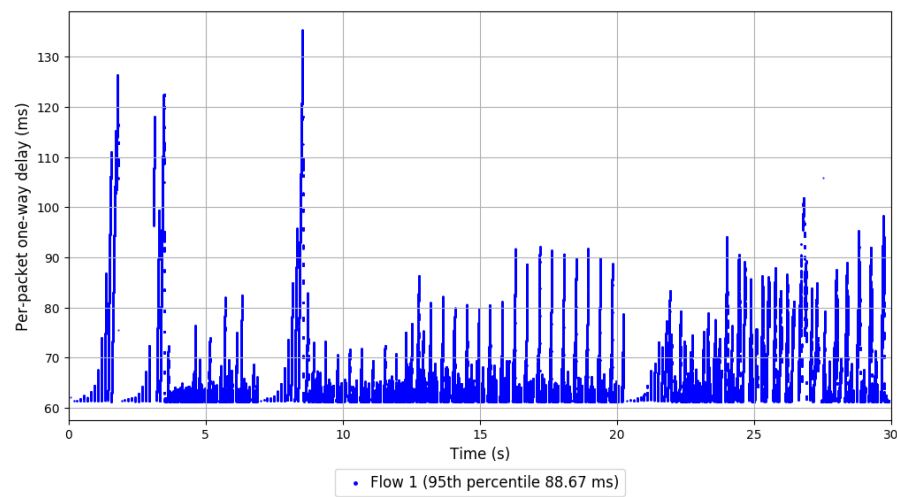
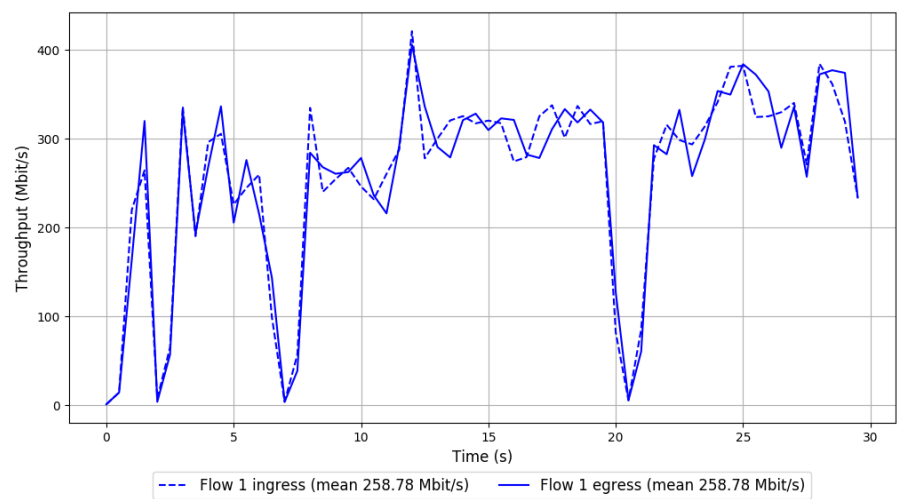
-- Flow 1:

Average throughput: 258.78 Mbit/s

95th percentile per-packet one-way delay: 88.668 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-18 11:26:32

End at: 2017-09-18 11:27:02

Below is generated by plot.py at 2017-09-18 14:02:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.94 Mbit/s

95th percentile per-packet one-way delay: 104.106 ms

Loss rate: 0.01%

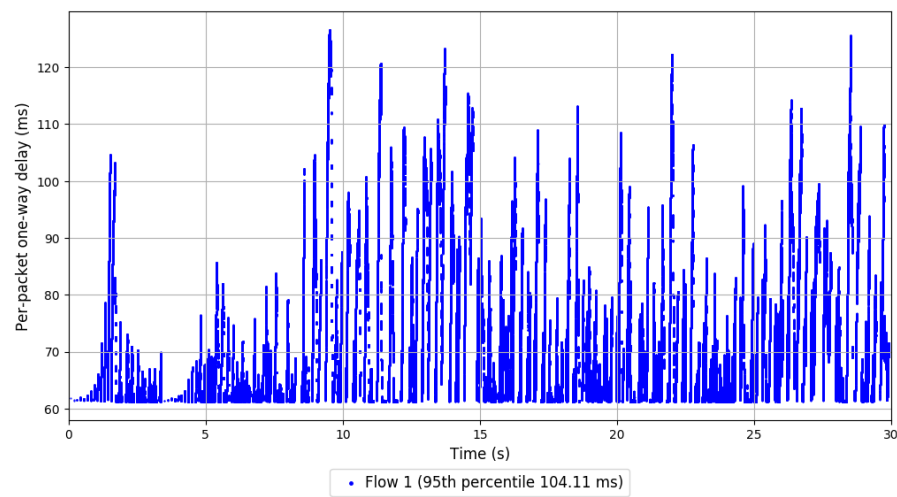
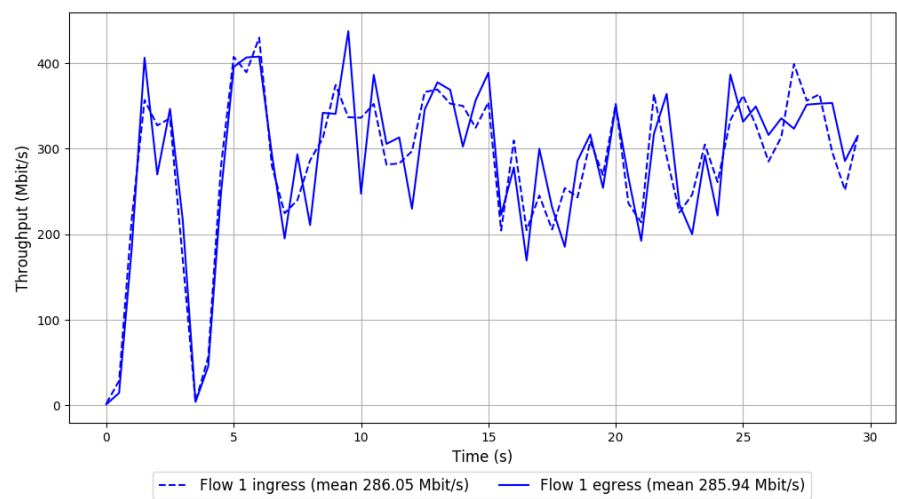
-- Flow 1:

Average throughput: 285.94 Mbit/s

95th percentile per-packet one-way delay: 104.106 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-18 11:37:57

End at: 2017-09-18 11:38:27

Below is generated by plot.py at 2017-09-18 14:02:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.13 Mbit/s

95th percentile per-packet one-way delay: 115.028 ms

Loss rate: 0.00%

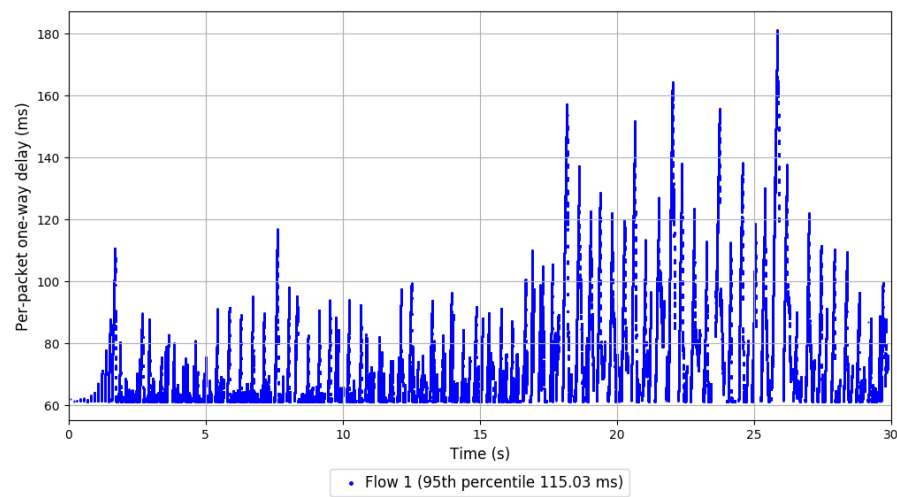
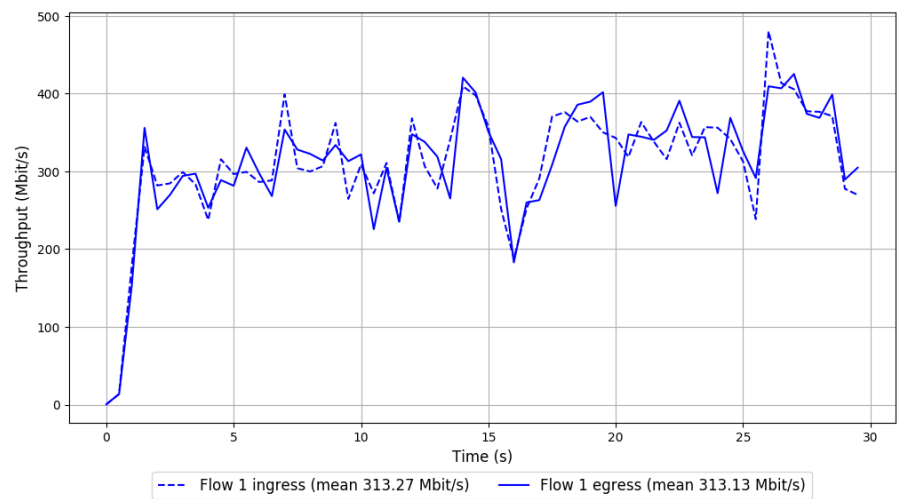
-- Flow 1:

Average throughput: 313.13 Mbit/s

95th percentile per-packet one-way delay: 115.028 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-18 11:49:25

End at: 2017-09-18 11:49:55

Below is generated by plot.py at 2017-09-18 14:02:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.68 Mbit/s

95th percentile per-packet one-way delay: 102.210 ms

Loss rate: 0.00%

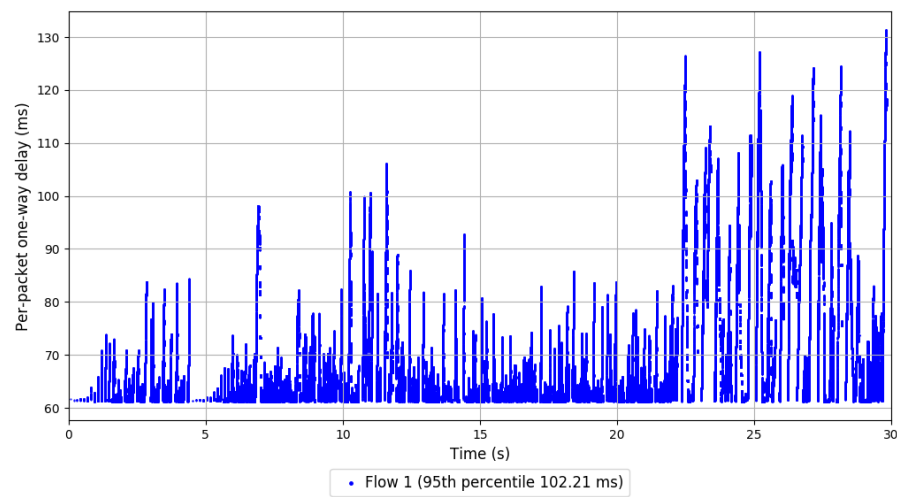
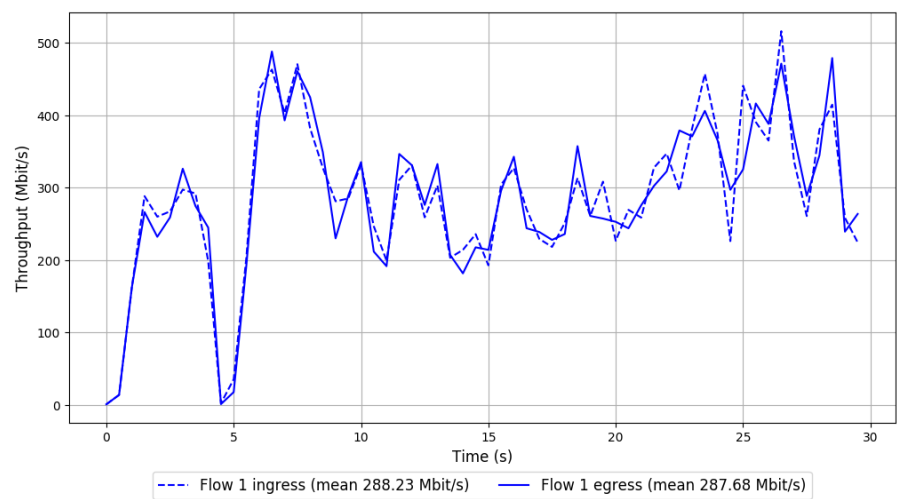
-- Flow 1:

Average throughput: 287.68 Mbit/s

95th percentile per-packet one-way delay: 102.210 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 12:00:44

End at: 2017-09-18 12:01:14

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.53 Mbit/s

95th percentile per-packet one-way delay: 155.688 ms

Loss rate: 0.01%

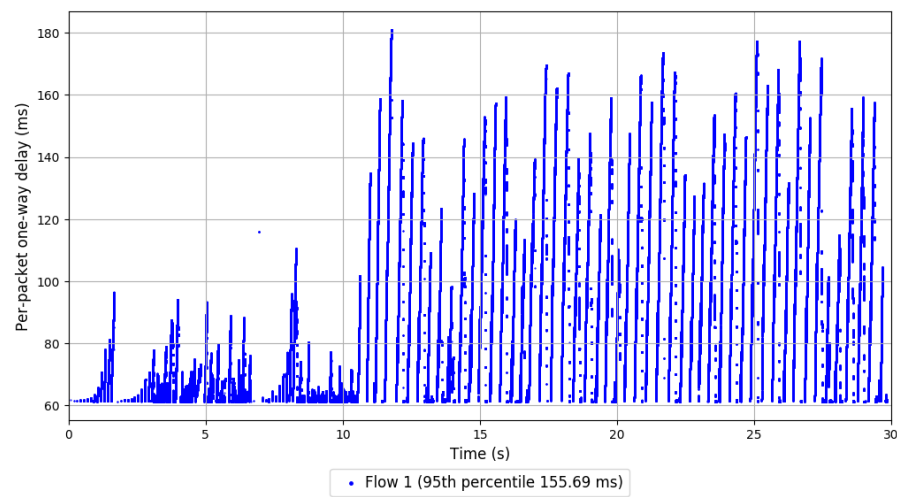
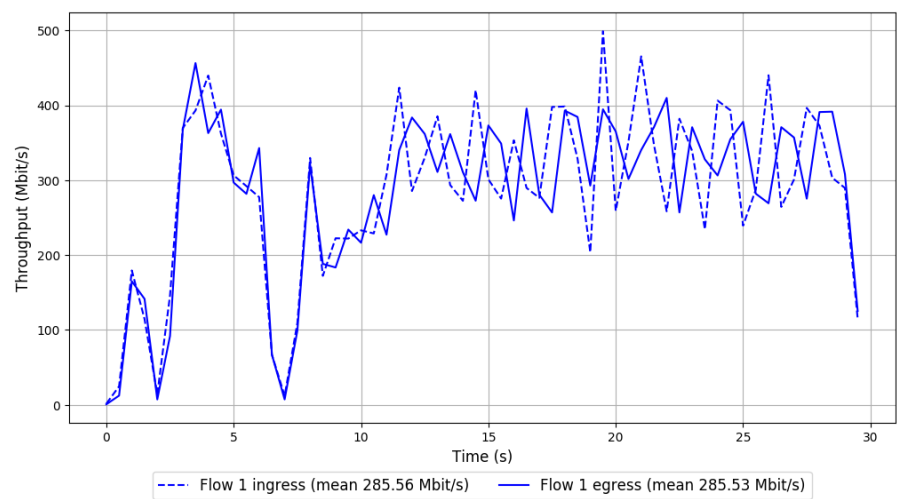
-- Flow 1:

Average throughput: 285.53 Mbit/s

95th percentile per-packet one-way delay: 155.688 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link

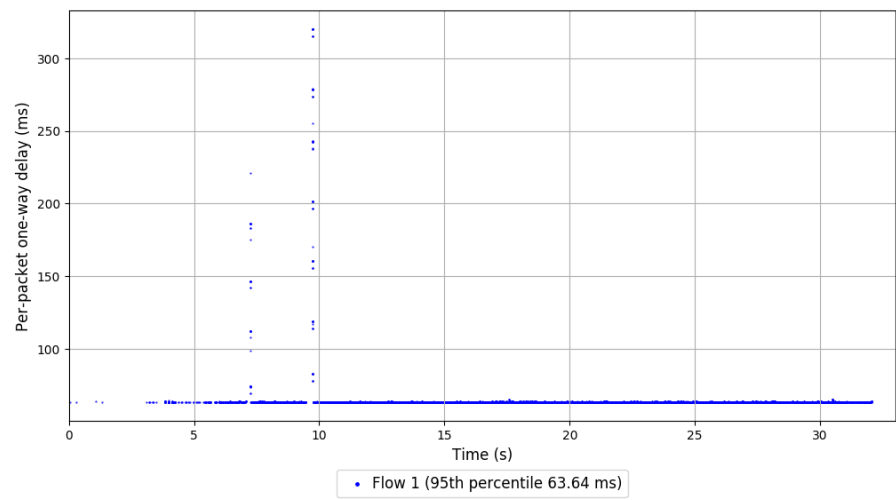
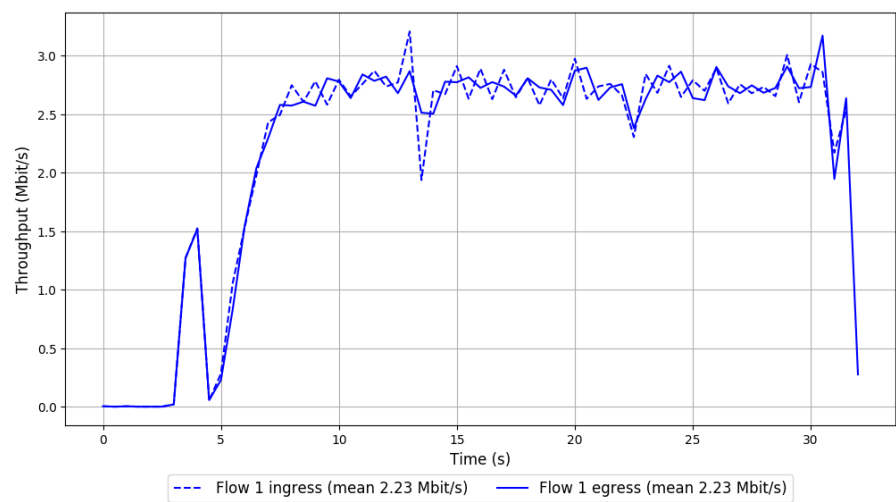


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-18 10:22:46
End at: 2017-09-18 10:23:16

# Below is generated by plot.py at 2017-09-18 14:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 63.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 63.636 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-18 10:34:09

End at: 2017-09-18 10:34:39

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 61.764 ms

Loss rate: 0.00%

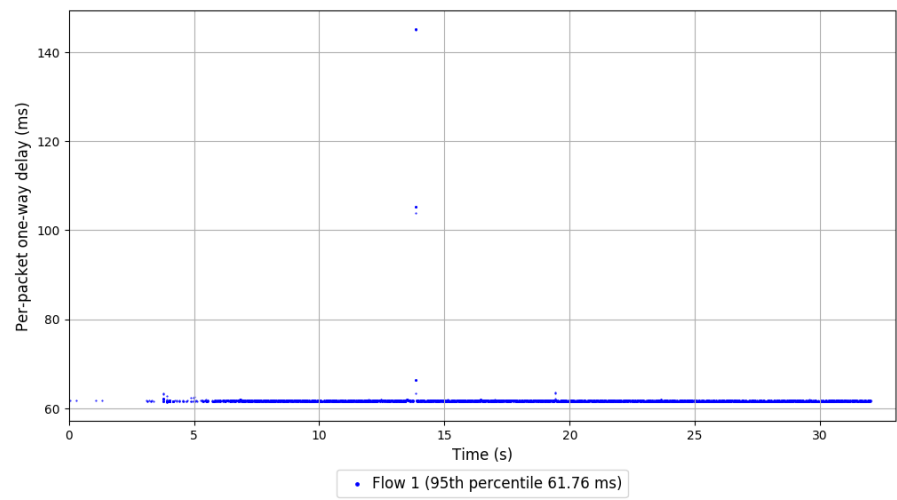
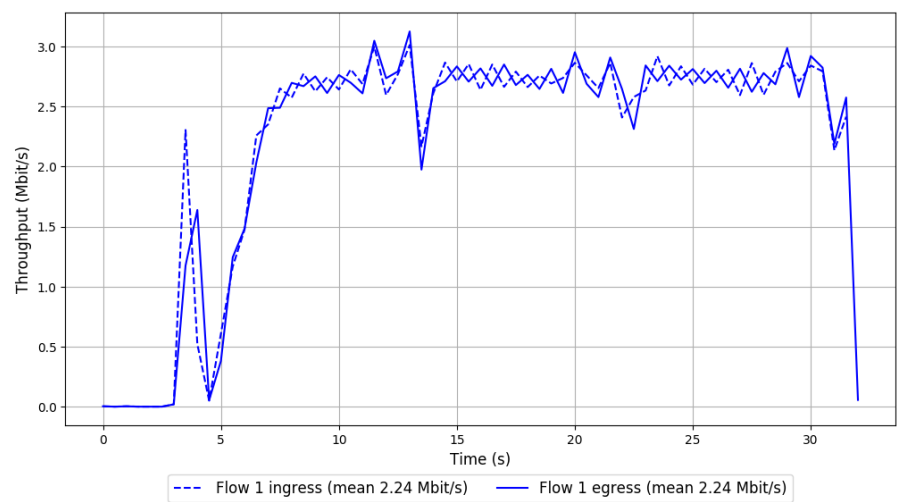
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 61.764 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-18 10:45:44

End at: 2017-09-18 10:46:14

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.600 ms

Loss rate: 0.00%

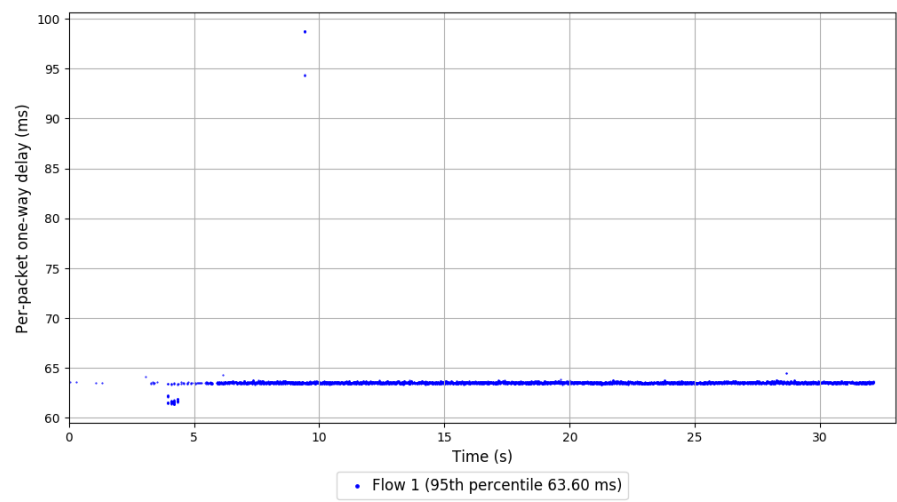
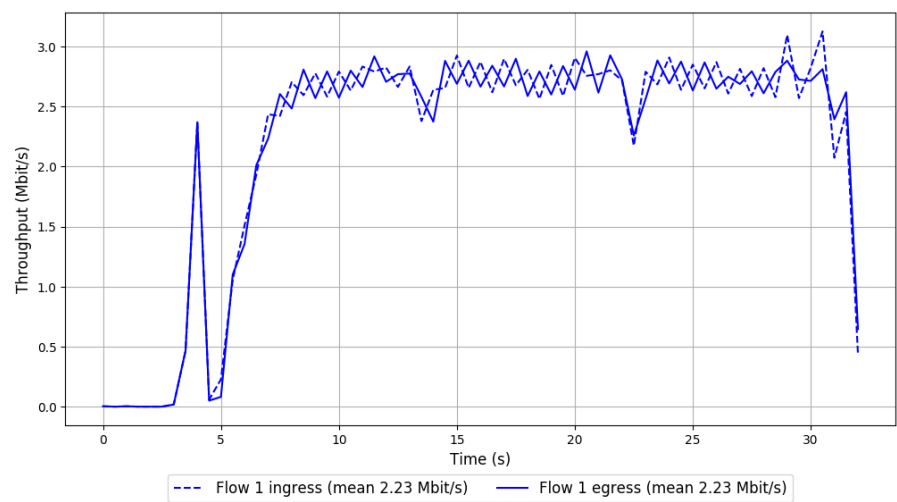
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.600 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-18 10:57:11

End at: 2017-09-18 10:57:41

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 0.00%

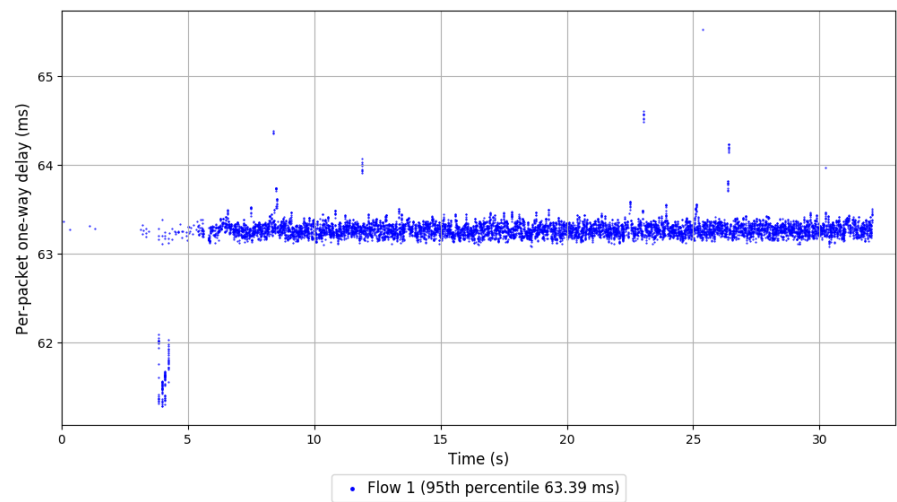
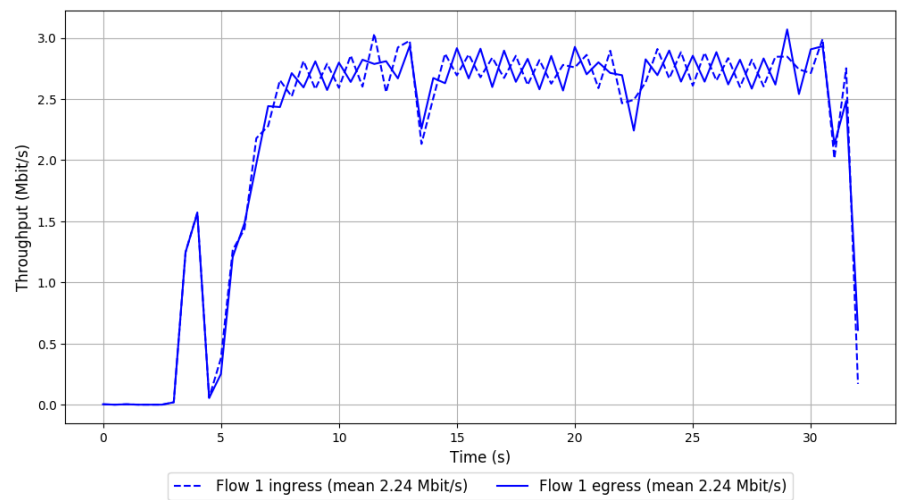
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-18 11:08:36

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

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.348 ms

Loss rate: 0.00%

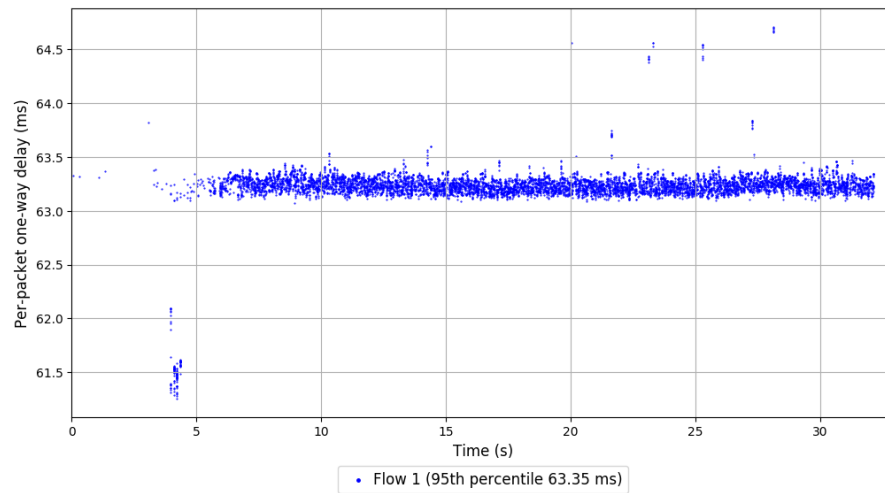
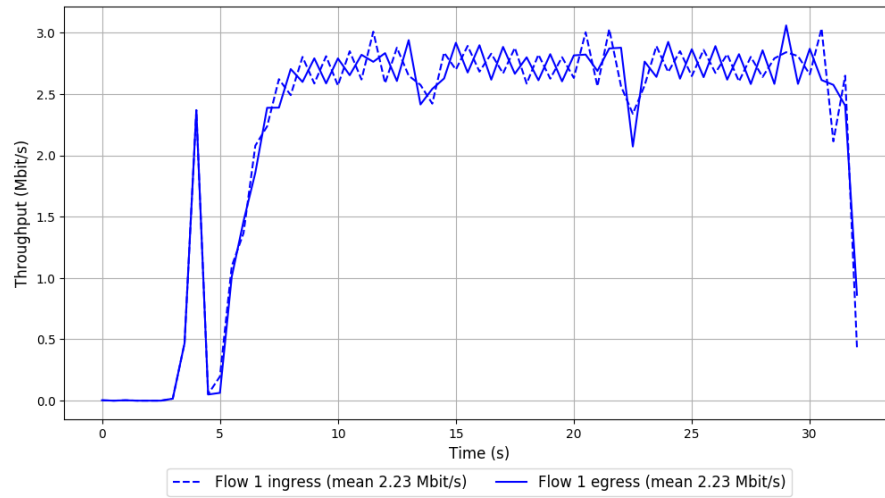
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.348 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-18 11:20:05

End at: 2017-09-18 11:20:35

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.00%

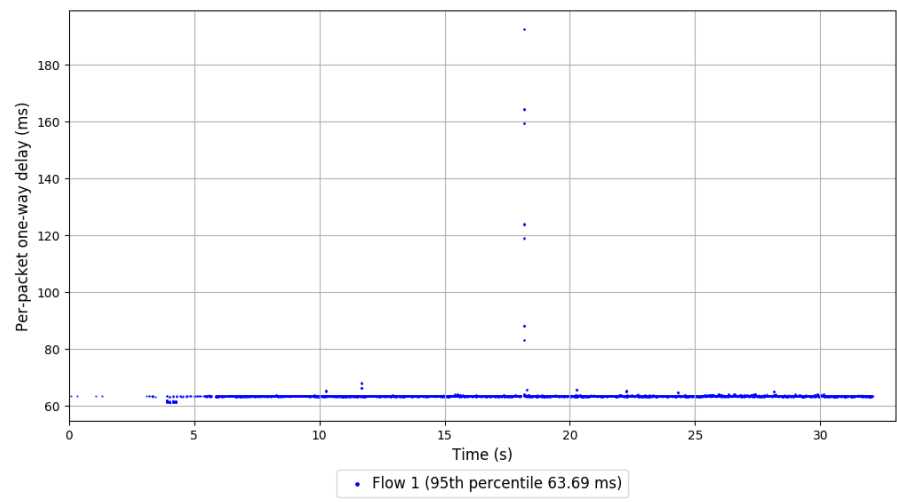
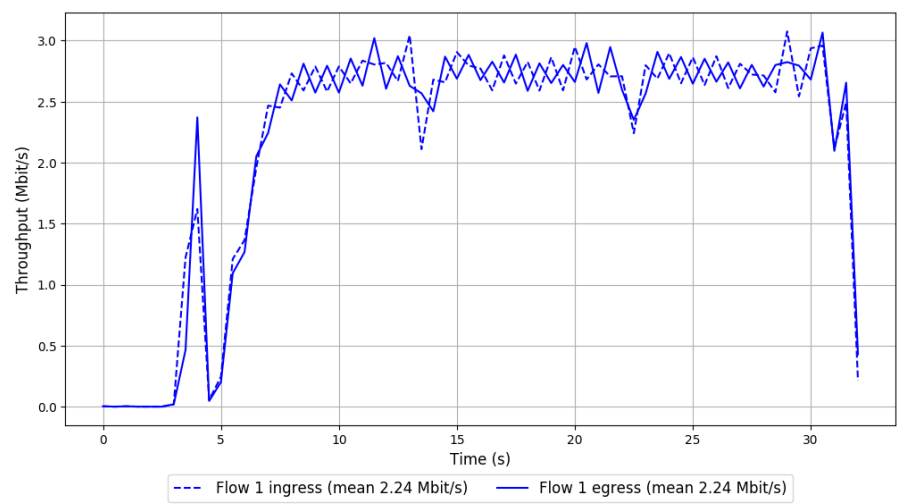
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-18 11:31:21

End at: 2017-09-18 11:31:51

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.336 ms

Loss rate: 0.00%

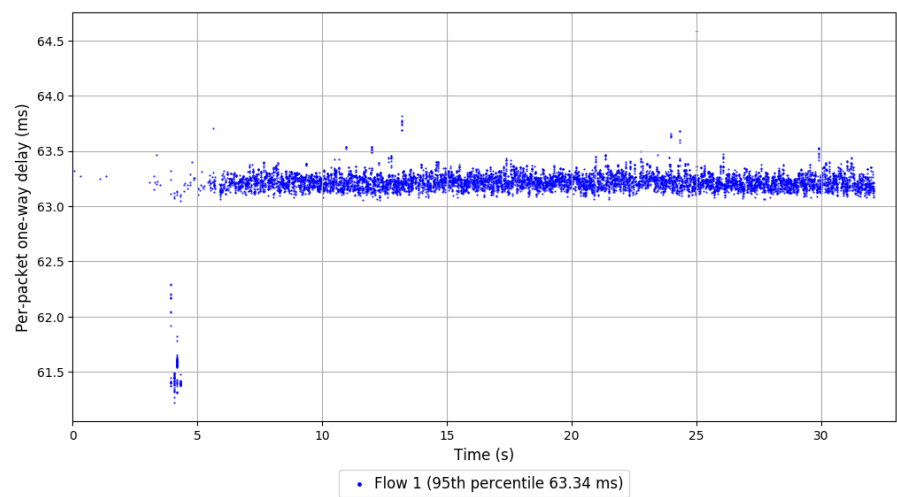
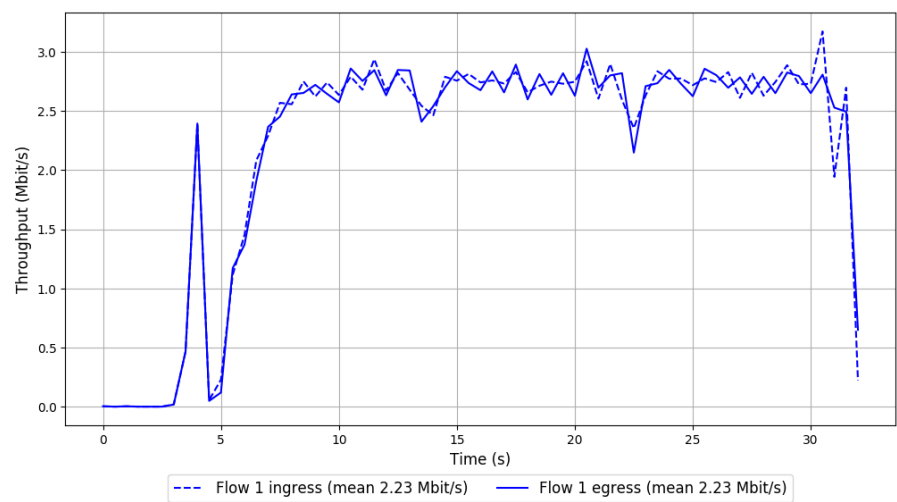
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.336 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-18 11:42:47

End at: 2017-09-18 11:43:17

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.00%

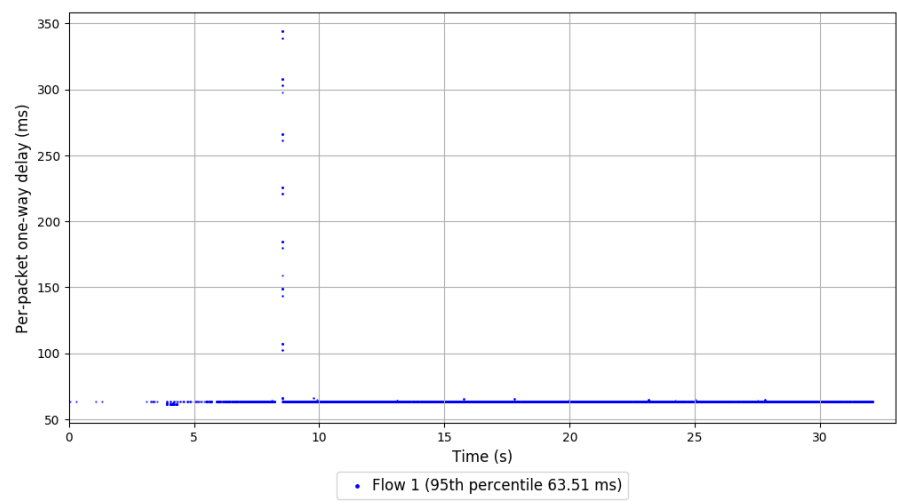
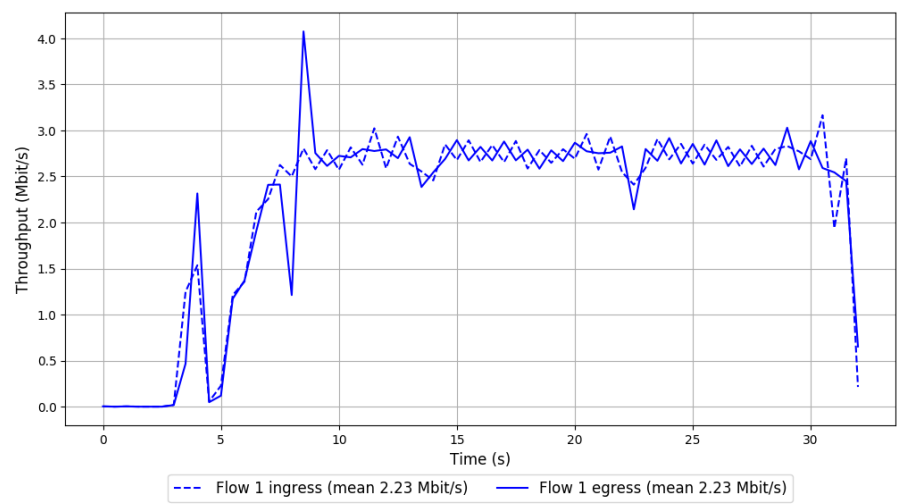
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-18 11:54:15

End at: 2017-09-18 11:54:45

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 61.654 ms

Loss rate: 0.00%

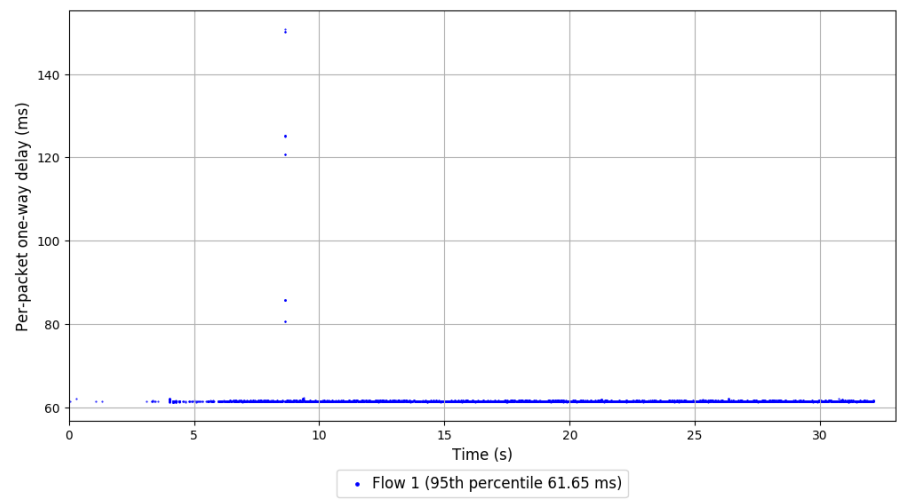
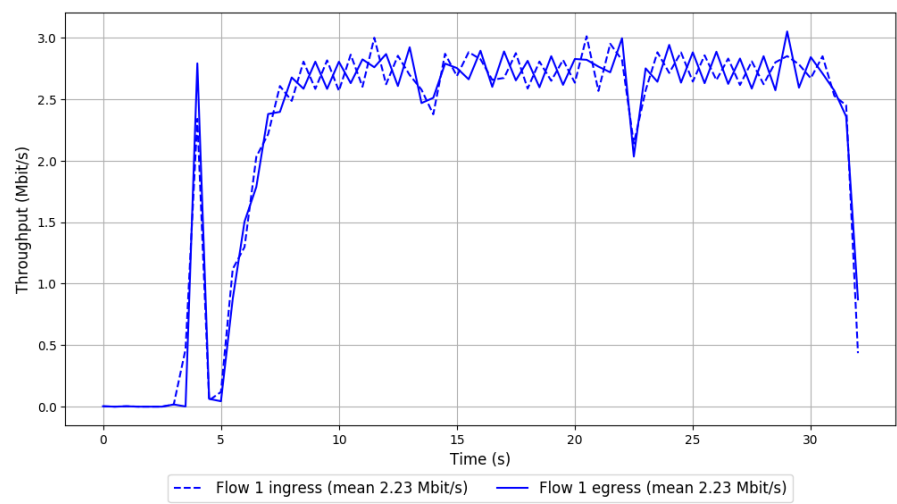
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 61.654 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-18 12:05:04

End at: 2017-09-18 12:05:34

Below is generated by plot.py at 2017-09-18 14:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 61.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 61.678 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

