

Pantheon Report

Generated at 2017-08-11 20:20:43 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

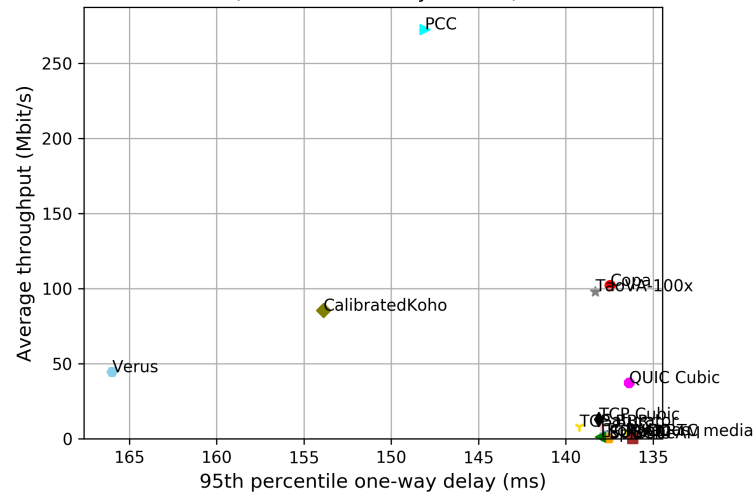
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

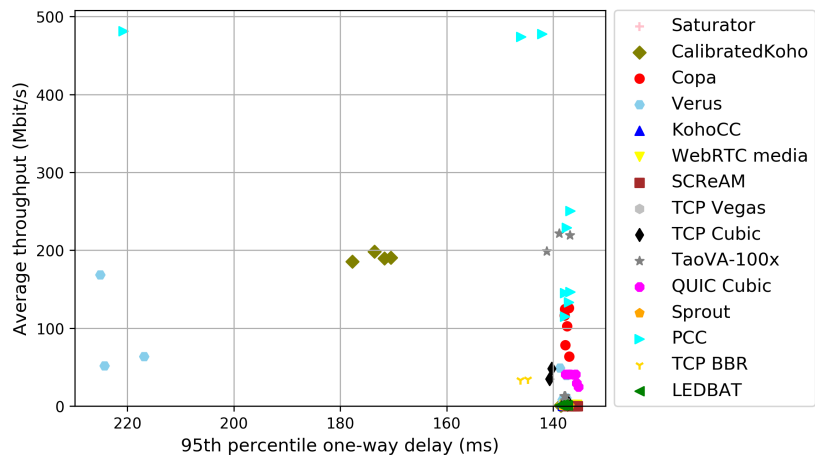
Git summary:

```
branch: master @ e43be7582298d552838afcf6382342bf187fbbd6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	8.04	139.22	23.51
CalibratedKoho	9	85.52	153.89	37.24
Copa	6	102.00	137.46	4.79
TCP Cubic	8	12.91	138.12	2.03
KohoCC	10	2.10	137.65	49.03
LEDBAT	10	1.24	138.02	3.42
PCC	9	272.54	148.06	6.20
QUIC Cubic	8	37.28	136.39	0.00
Saturator	2	8.49	137.96	0.69
SCReAM	10	0.22	136.18	0.00
Sprout	10	0.39	137.54	0.00
TaoVA-100x	7	98.06	138.32	0.60
TCP Vegas	10	2.33	137.79	2.21
Verus	9	44.60	165.99	53.41
WebRTC media	10	2.01	136.36	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-08-11 17:25:44

End at: 2017-08-11 17:26:14

Below is generated by plot.py at 2017-08-11 20:07:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 137.562 ms

Loss rate: 34.42%

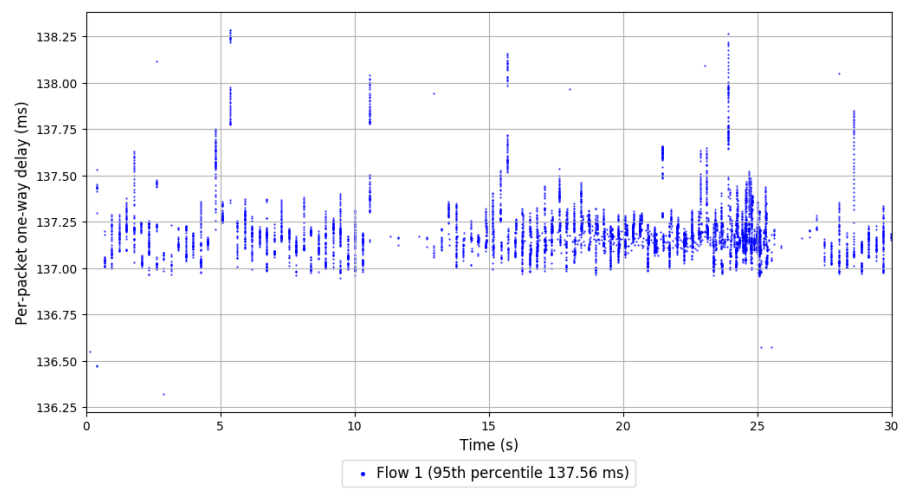
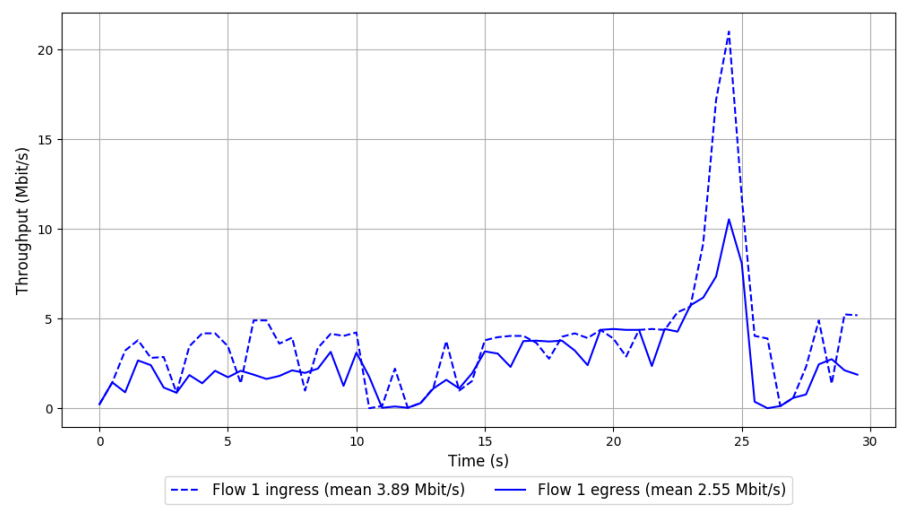
-- Flow 1:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 137.562 ms

Loss rate: 34.42%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-08-11 17:37:19

End at: 2017-08-11 17:37:49

Below is generated by plot.py at 2017-08-11 20:07:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 138.249 ms

Loss rate: 26.52%

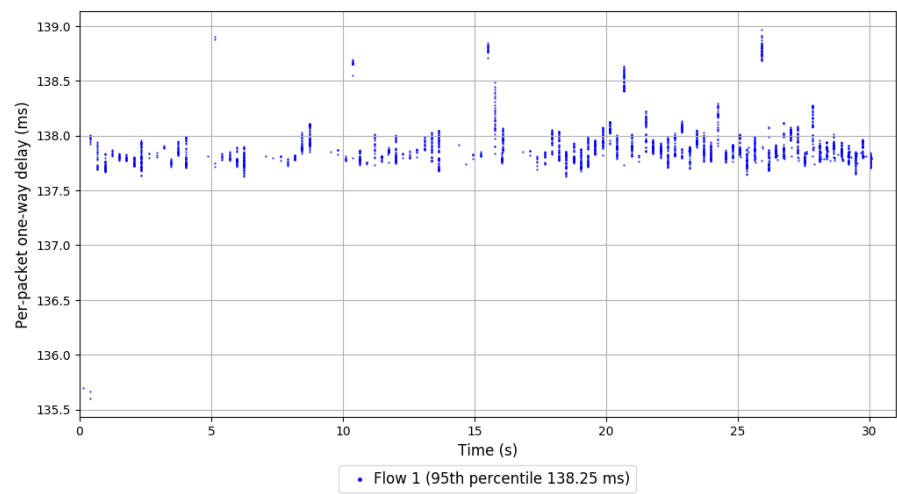
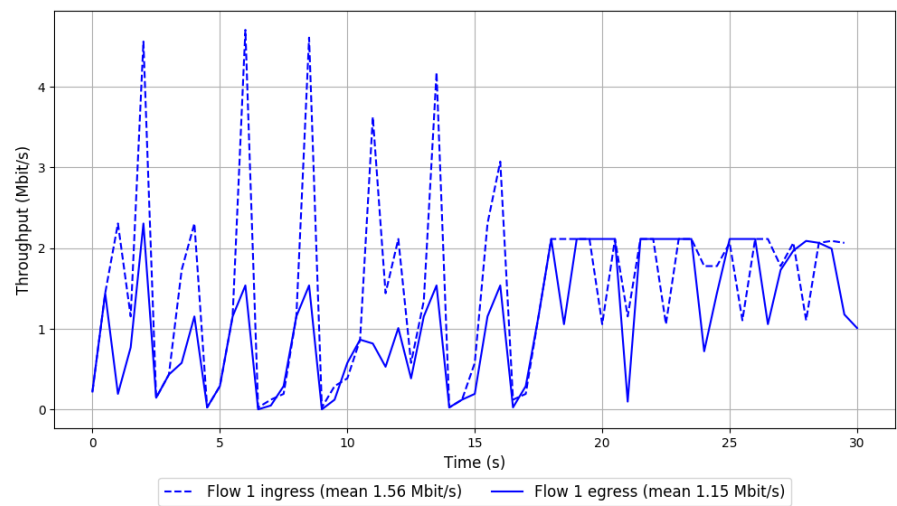
-- Flow 1:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 138.249 ms

Loss rate: 26.52%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-08-11 17:48:36

End at: 2017-08-11 17:49:06

Below is generated by plot.py at 2017-08-11 20:07:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 138.032 ms

Loss rate: 30.05%

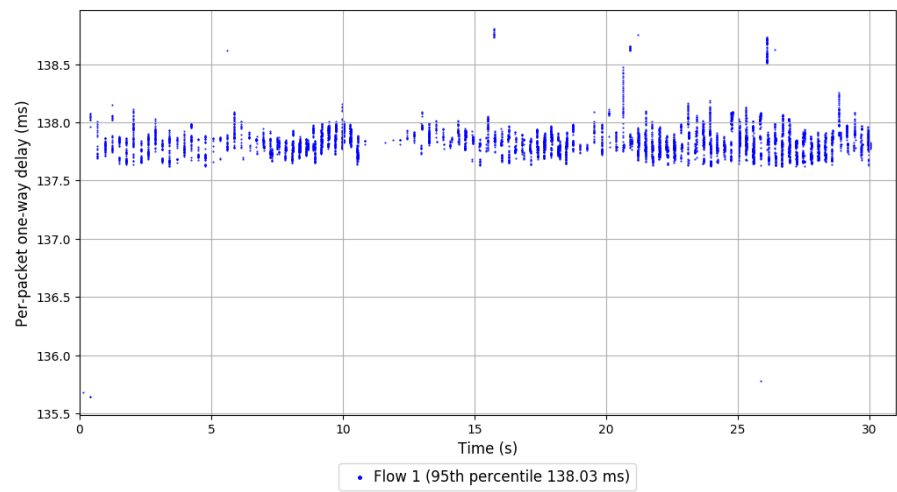
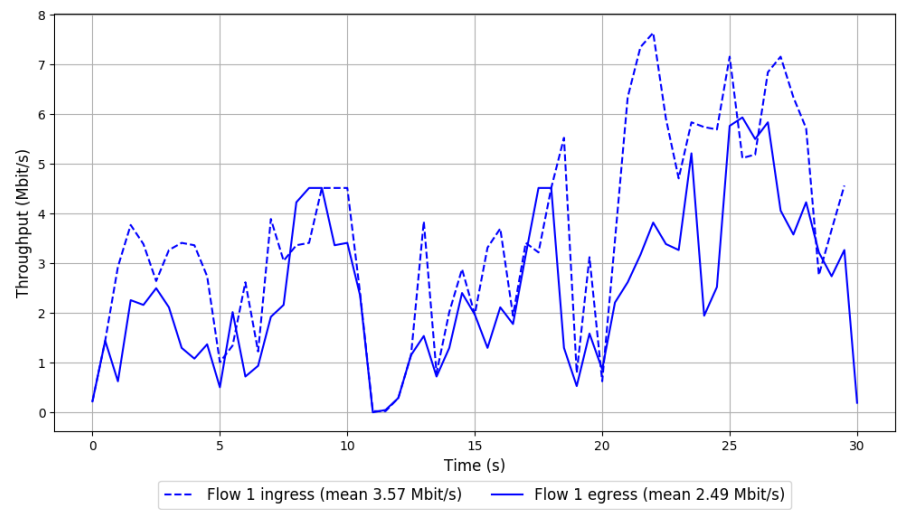
-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 138.032 ms

Loss rate: 30.05%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-08-11 17:59:52

End at: 2017-08-11 18:00:22

Below is generated by plot.py at 2017-08-11 20:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.33 Mbit/s

95th percentile per-packet one-way delay: 146.169 ms

Loss rate: 5.43%

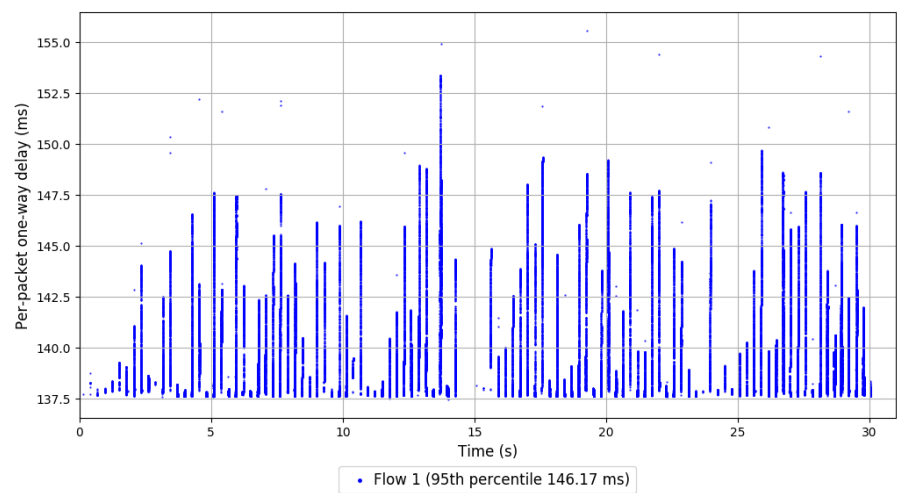
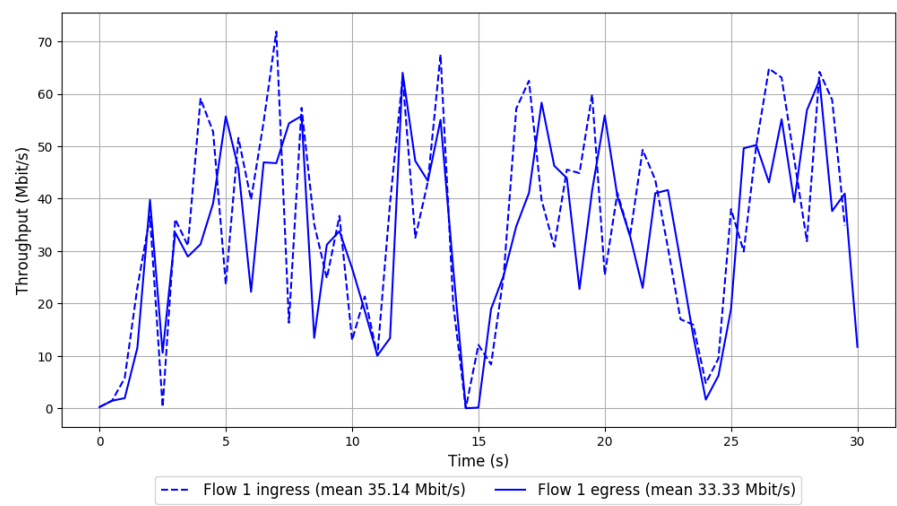
-- Flow 1:

Average throughput: 33.33 Mbit/s

95th percentile per-packet one-way delay: 146.169 ms

Loss rate: 5.43%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-08-11 18:11:16

End at: 2017-08-11 18:11:46

Below is generated by plot.py at 2017-08-11 20:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 30.28%

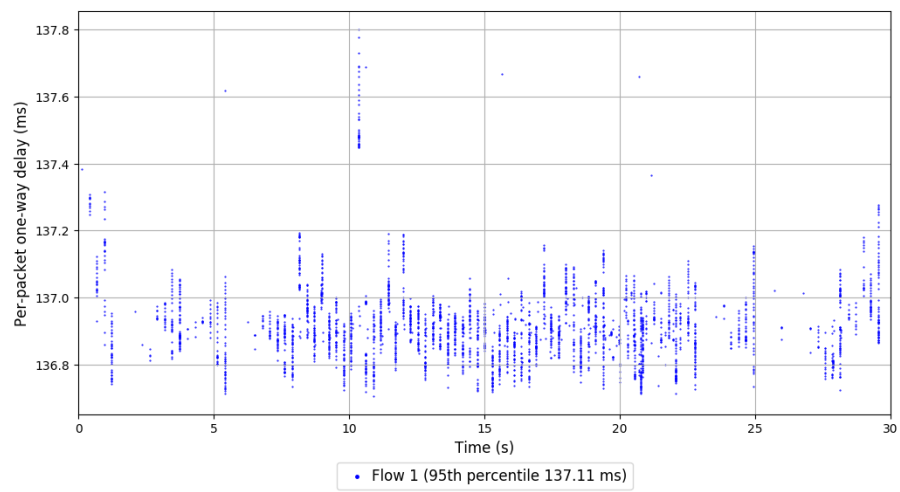
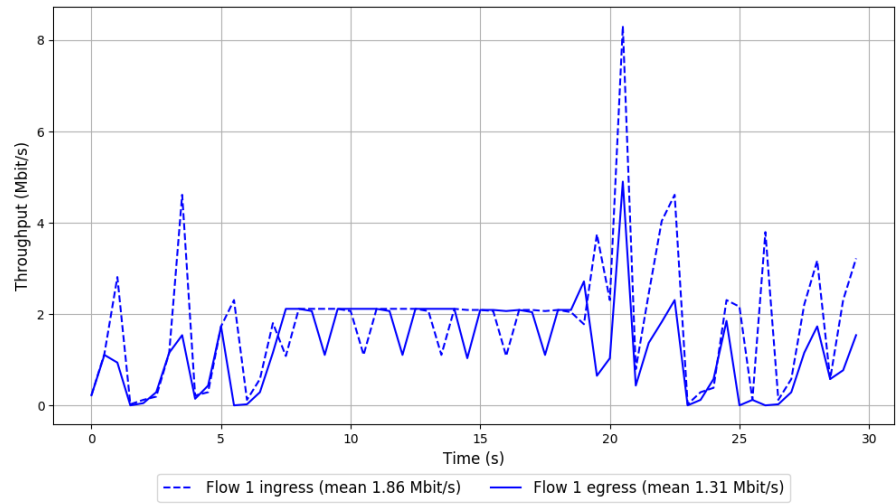
-- Flow 1:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 30.28%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-08-11 18:22:55

End at: 2017-08-11 18:23:25

Below is generated by plot.py at 2017-08-11 20:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 137.140 ms

Loss rate: 17.58%

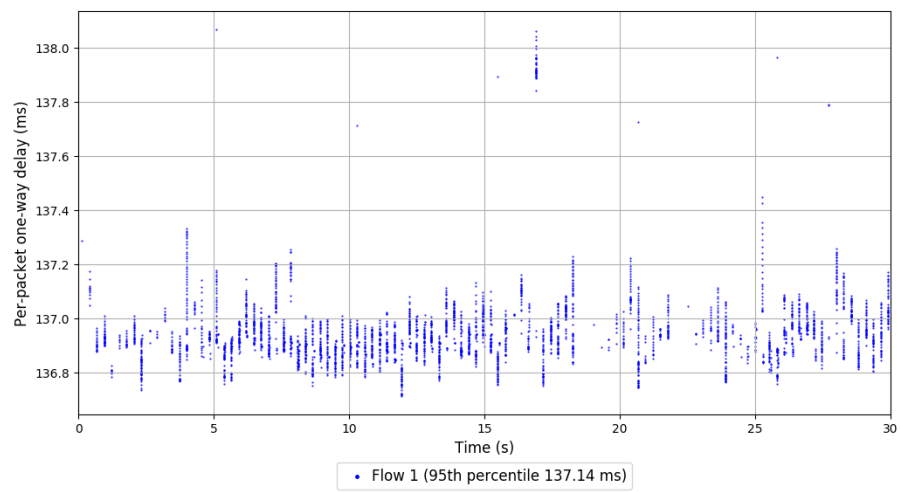
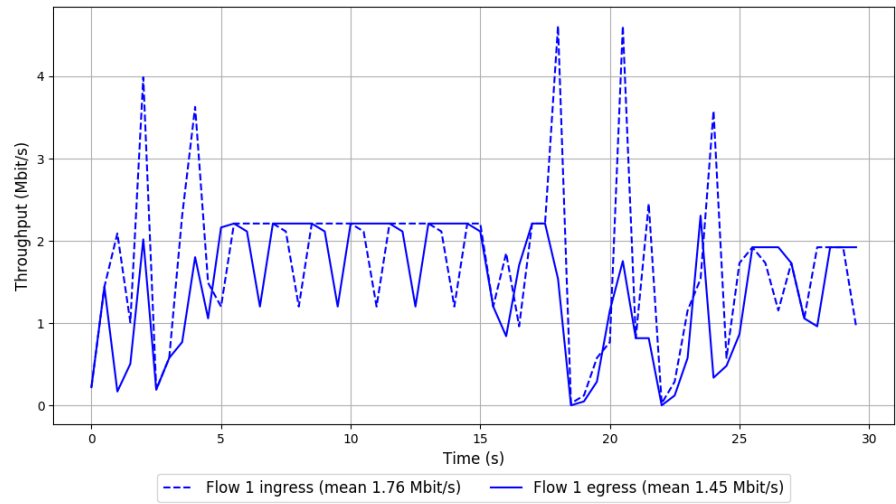
-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 137.140 ms

Loss rate: 17.58%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-08-11 18:34:41

End at: 2017-08-11 18:35:11

Below is generated by plot.py at 2017-08-11 20:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 137.092 ms

Loss rate: 25.79%

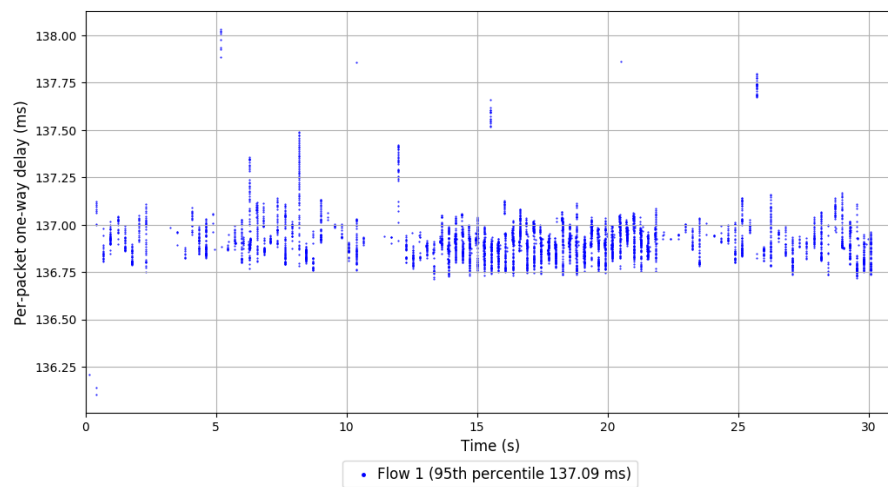
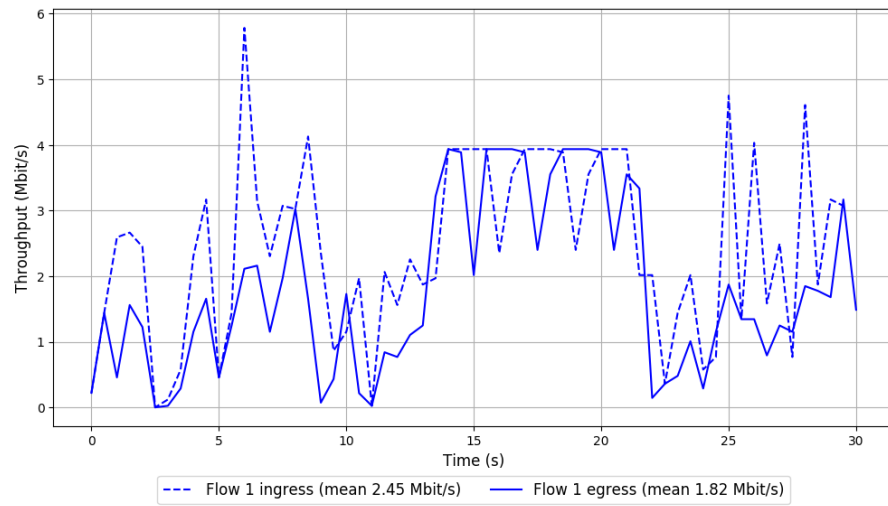
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 137.092 ms

Loss rate: 25.79%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-08-11 18:45:48

End at: 2017-08-11 18:46:18

Below is generated by plot.py at 2017-08-11 20:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 138.698 ms

Loss rate: 29.17%

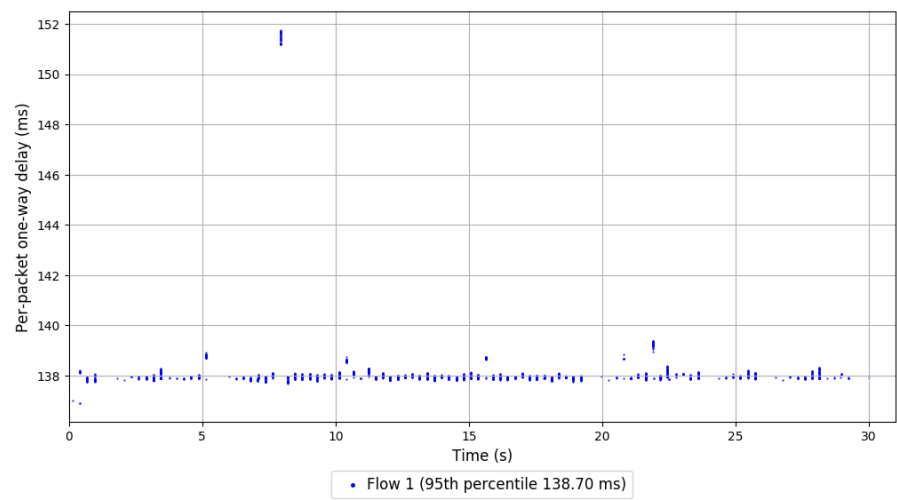
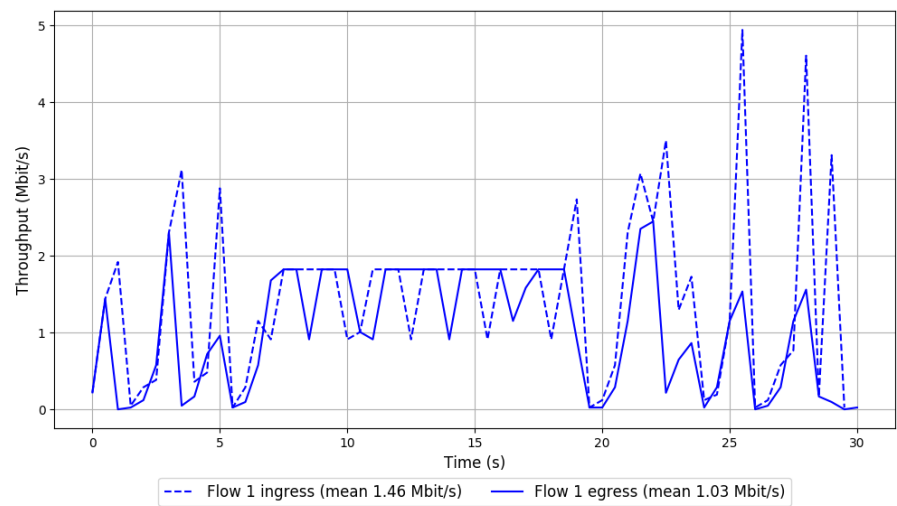
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 138.698 ms

Loss rate: 29.17%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-08-11 18:56:49

End at: 2017-08-11 18:57:19

Below is generated by plot.py at 2017-08-11 20:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 144.734 ms

Loss rate: 3.56%

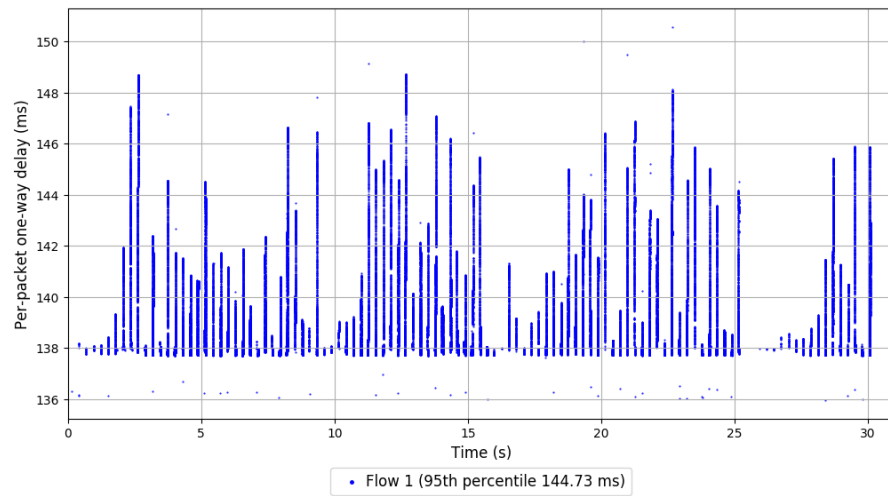
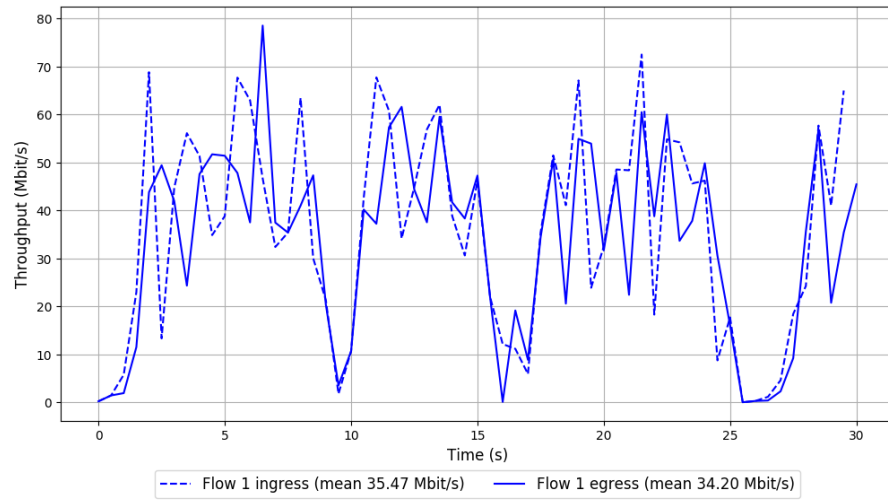
-- Flow 1:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 144.734 ms

Loss rate: 3.56%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-08-11 19:07:57

End at: 2017-08-11 19:08:27

Below is generated by plot.py at 2017-08-11 20:07:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 137.429 ms

Loss rate: 32.28%

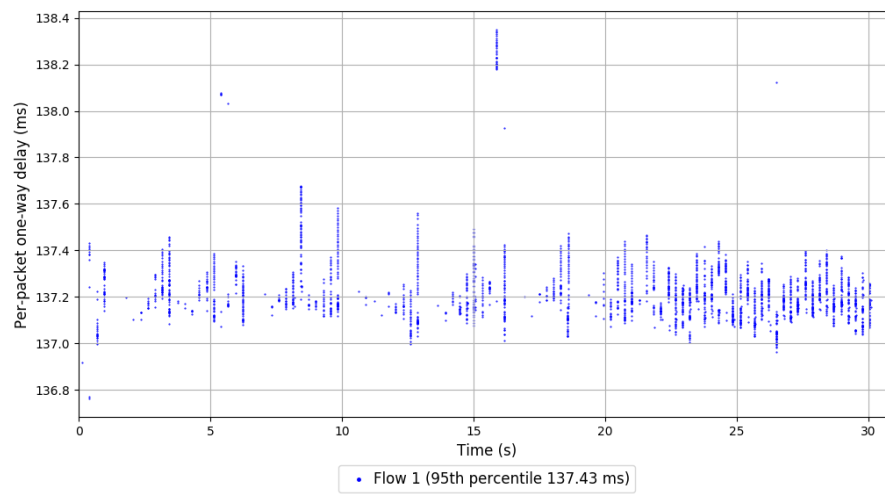
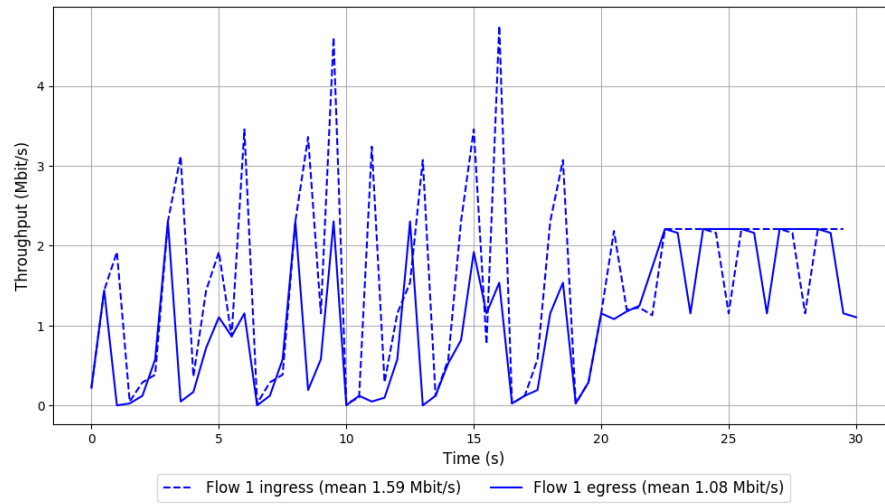
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 137.429 ms

Loss rate: 32.28%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-08-11 17:30:55

End at: 2017-08-11 17:31:25

Below is generated by plot.py at 2017-08-11 20:08:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.77 Mbit/s

95th percentile per-packet one-way delay: 171.724 ms

Loss rate: 0.16%

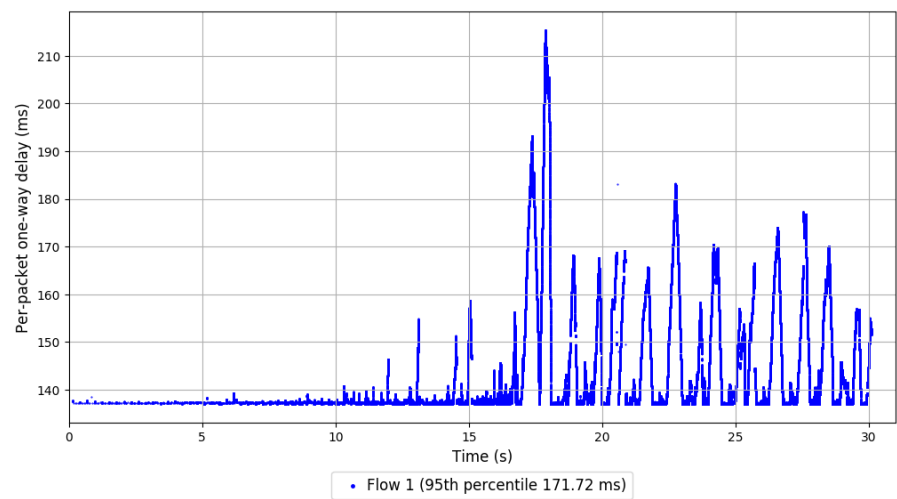
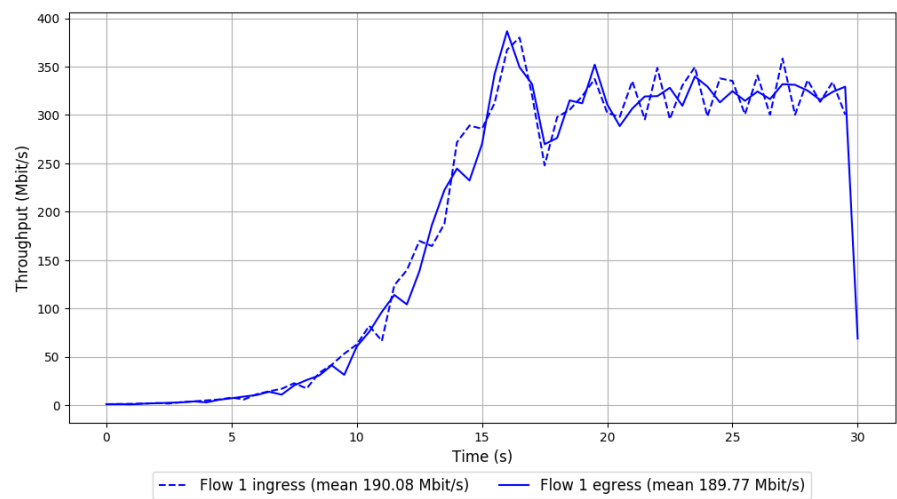
-- Flow 1:

Average throughput: 189.77 Mbit/s

95th percentile per-packet one-way delay: 171.724 ms

Loss rate: 0.16%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-08-11 17:42:29

End at: 2017-08-11 17:42:59

Below is generated by plot.py at 2017-08-11 20:08:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 138.572 ms

Loss rate: 66.61%

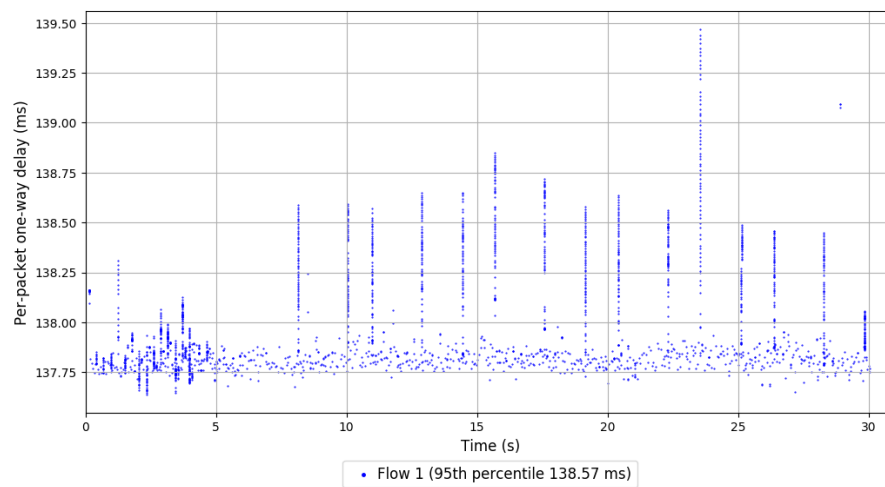
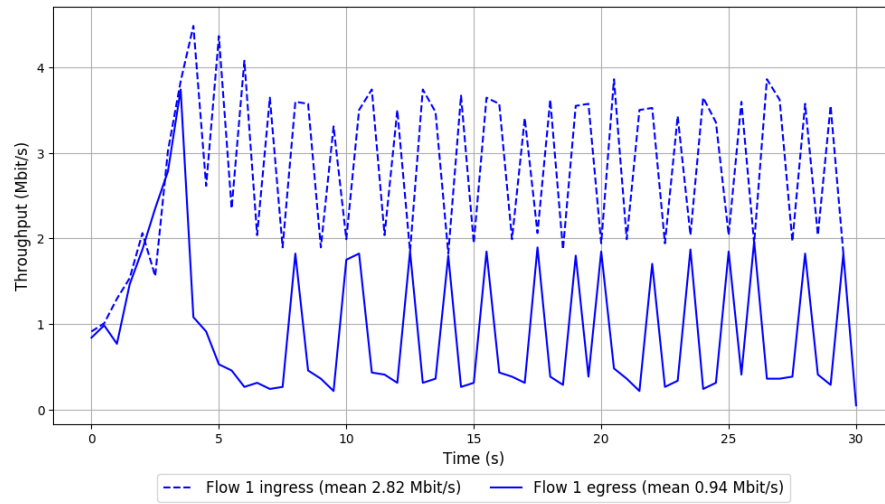
-- Flow 1:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 138.572 ms

Loss rate: 66.61%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-08-11 17:53:50

End at: 2017-08-11 17:54:20

Below is generated by plot.py at 2017-08-11 20:08:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.34 Mbit/s

95th percentile per-packet one-way delay: 173.574 ms

Loss rate: 0.00%

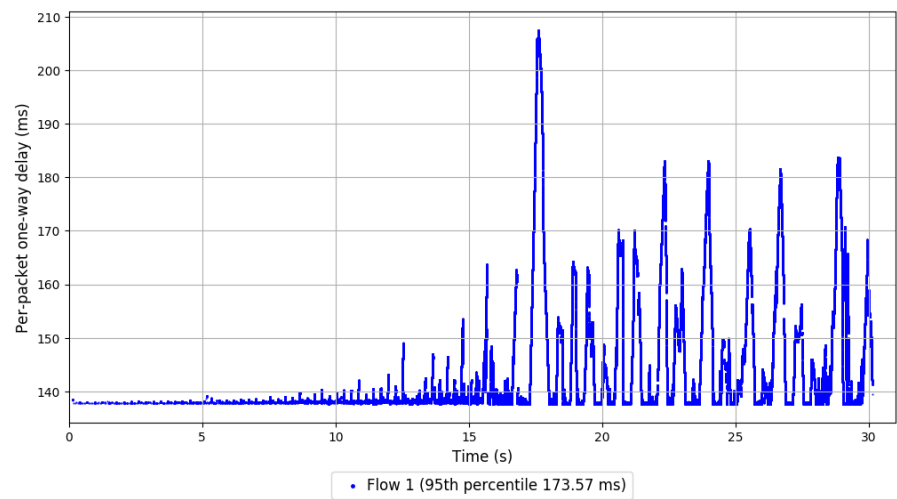
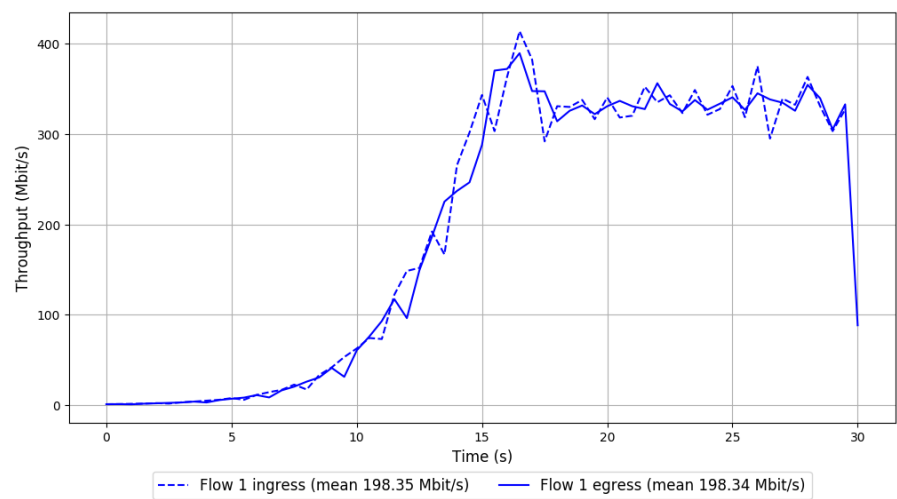
-- Flow 1:

Average throughput: 198.34 Mbit/s

95th percentile per-packet one-way delay: 173.574 ms

Loss rate: 0.00%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-11 18:04:55

End at: 2017-08-11 18:05:25

Below is generated by plot.py at 2017-08-11 20:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.62 Mbit/s

95th percentile per-packet one-way delay: 177.744 ms

Loss rate: 0.07%

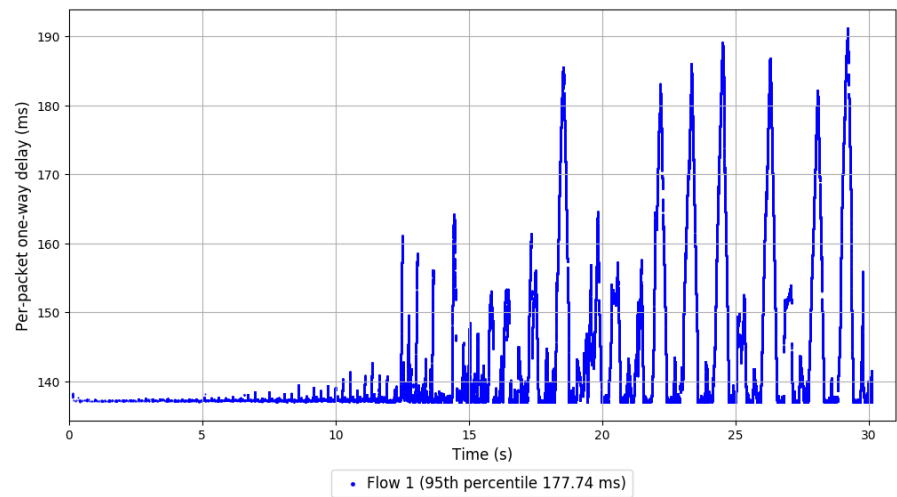
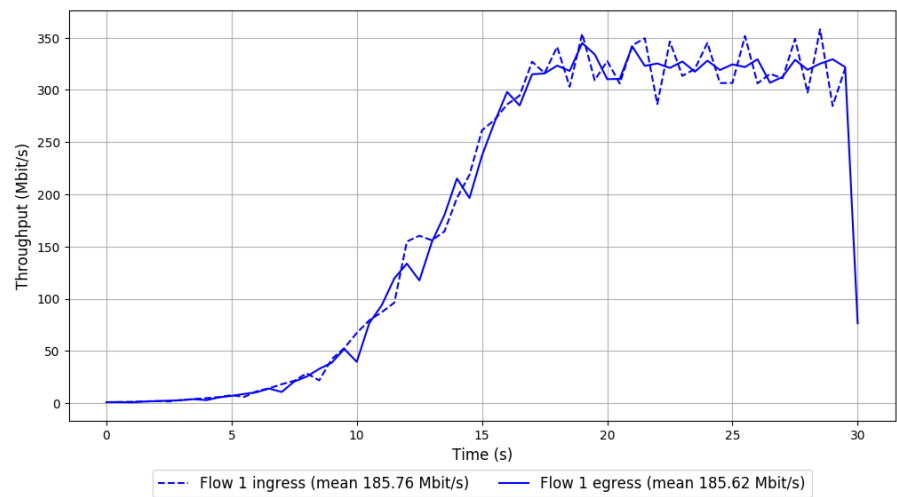
-- Flow 1:

Average throughput: 185.62 Mbit/s

95th percentile per-packet one-way delay: 177.744 ms

Loss rate: 0.07%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-08-11 18:16:25

End at: 2017-08-11 18:16:55

Below is generated by plot.py at 2017-08-11 20:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 137.341 ms

Loss rate: 68.17%

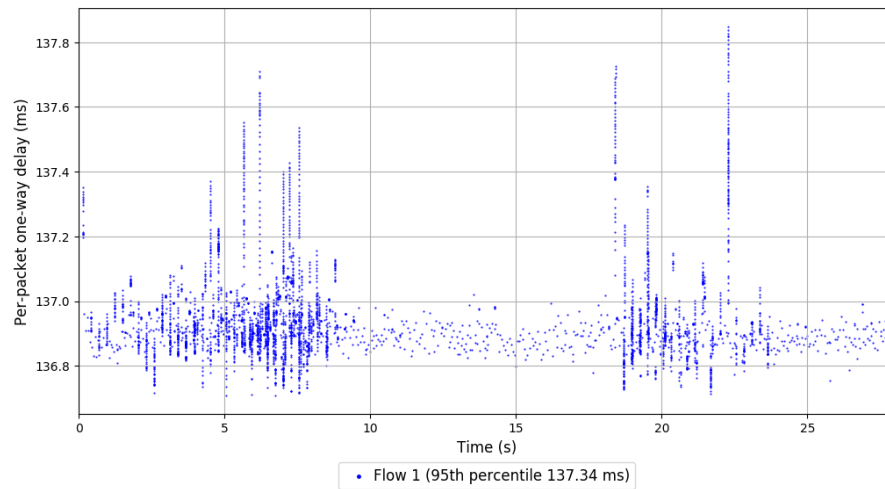
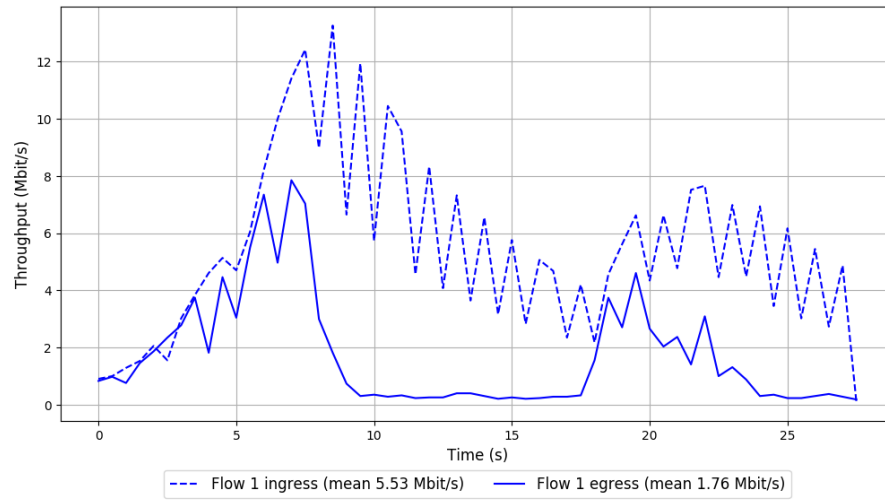
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 137.341 ms

Loss rate: 68.17%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

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

End at: 2017-08-11 18:28:39

Below is generated by plot.py at 2017-08-11 20:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.45 Mbit/s

95th percentile per-packet one-way delay: 170.473 ms

Loss rate: 0.15%

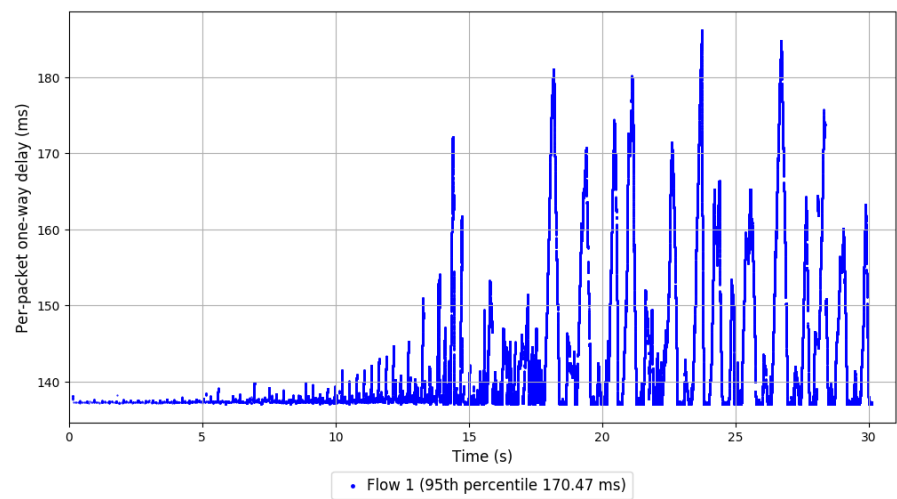
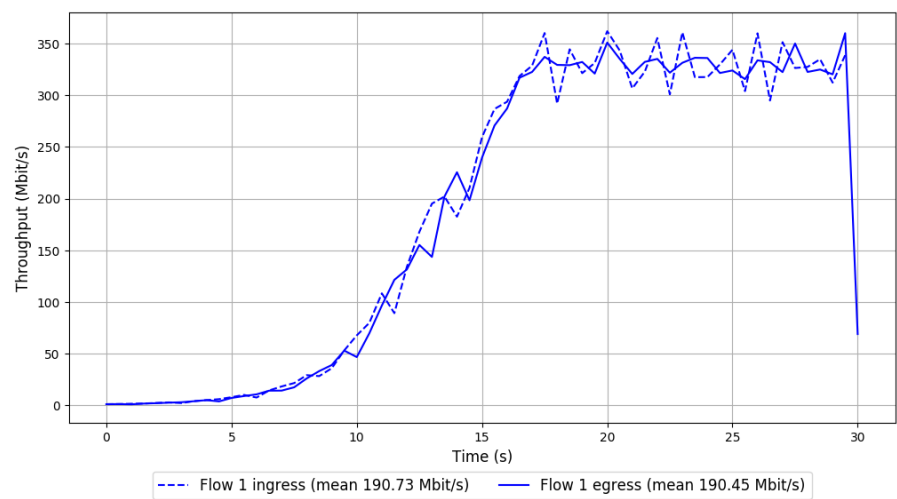
-- Flow 1:

Average throughput: 190.45 Mbit/s

95th percentile per-packet one-way delay: 170.473 ms

Loss rate: 0.15%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-08-11 18:39:40

End at: 2017-08-11 18:40:10

Below is generated by plot.py at 2017-08-11 20:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 138.586 ms

Loss rate: 66.47%

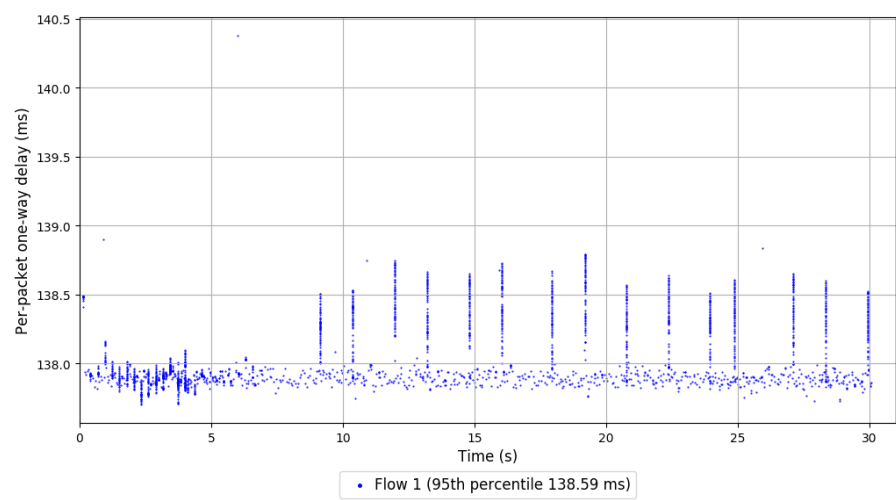
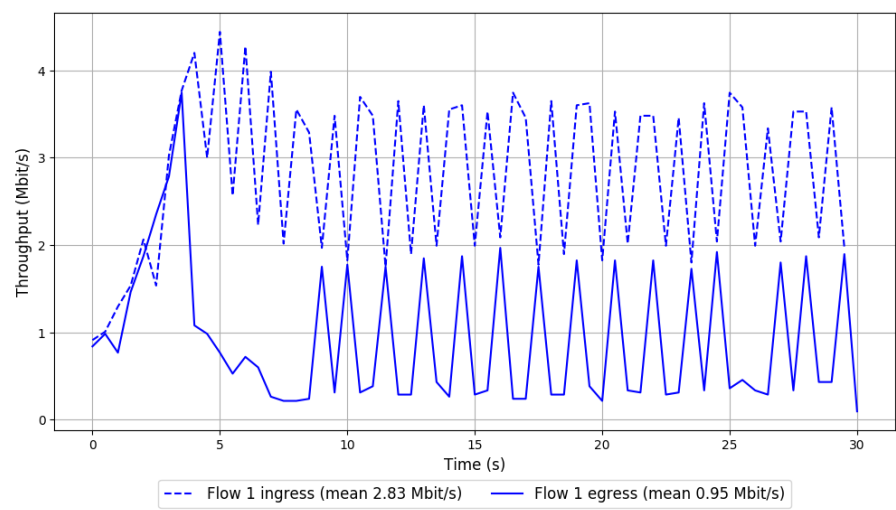
-- Flow 1:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 138.586 ms

Loss rate: 66.47%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-08-11 18:50:57

End at: 2017-08-11 18:51:27

Below is generated by plot.py at 2017-08-11 20:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 138.450 ms

Loss rate: 67.21%

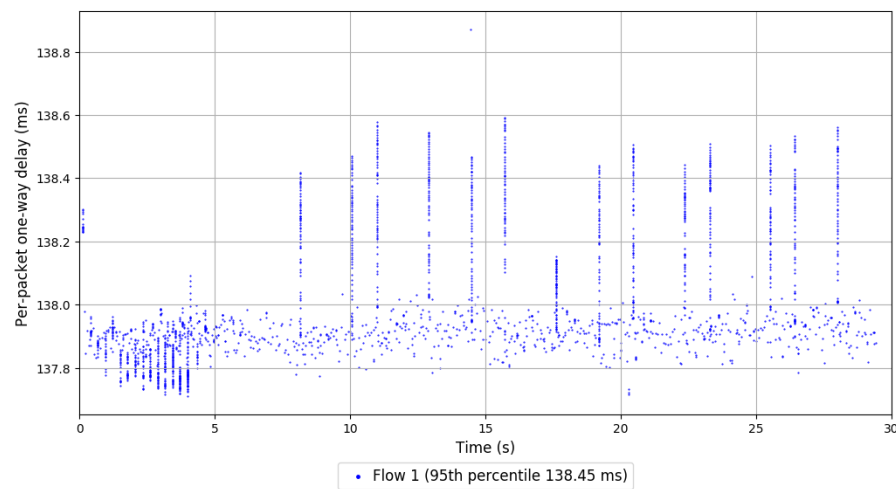
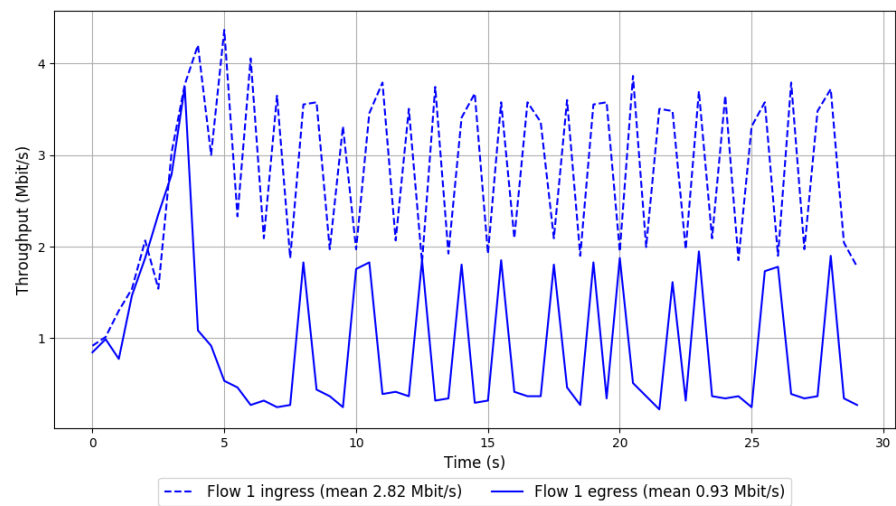
-- Flow 1:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 138.450 ms

Loss rate: 67.21%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-11 19:01:52

End at: 2017-08-11 19:02:22

Below is generated by plot.py at 2017-08-11 20:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 138.568 ms

Loss rate: 66.35%

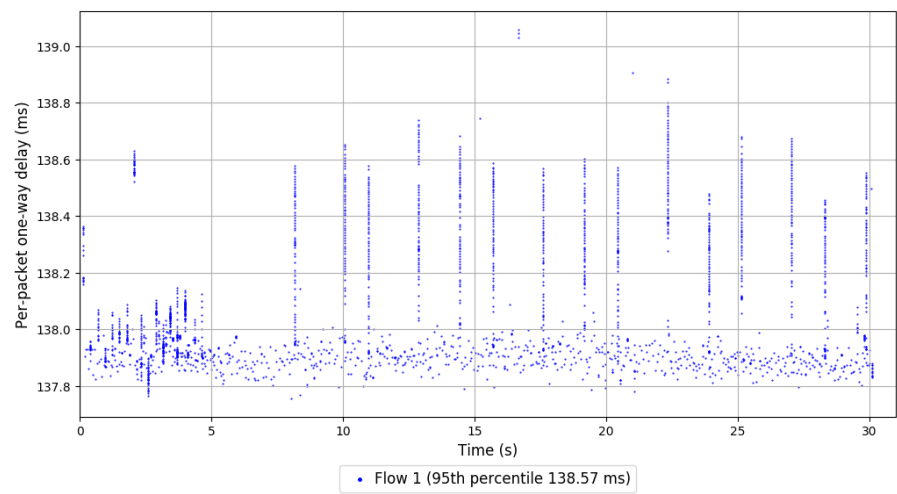
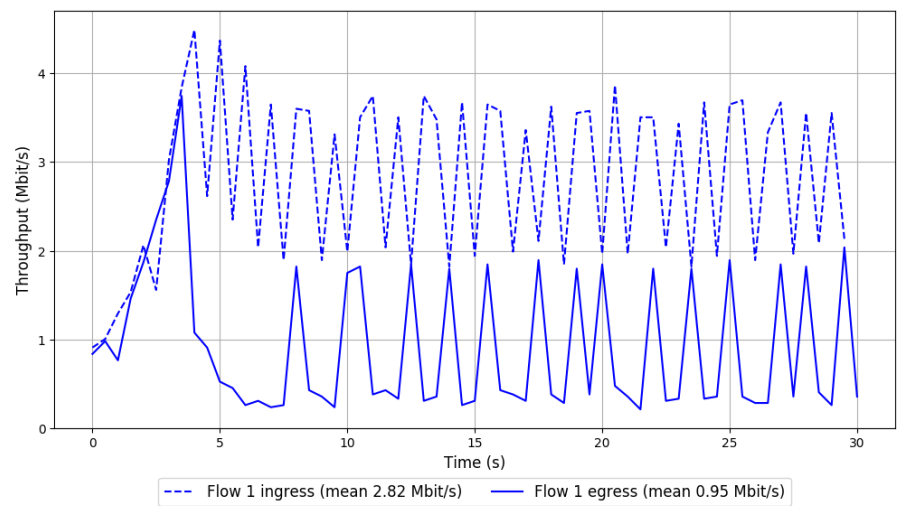
-- Flow 1:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 138.568 ms

Loss rate: 66.35%

Run 9: Report of CalibratedKoho — Data Link

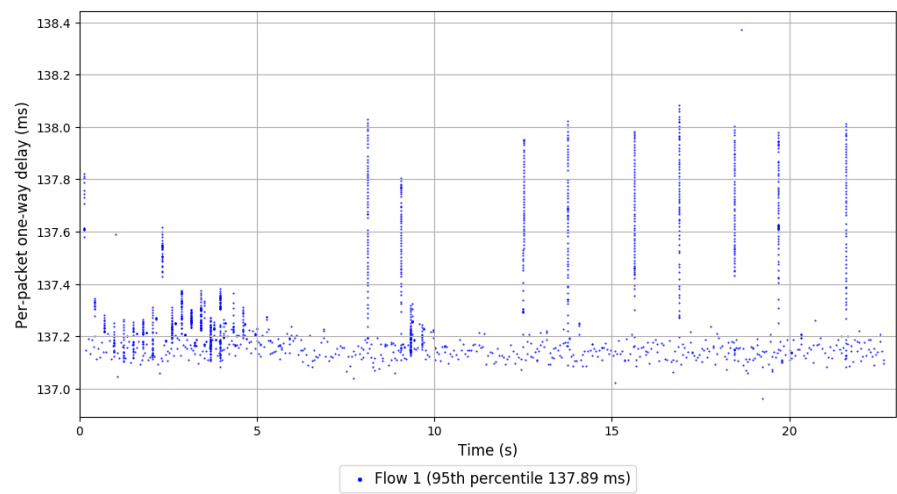
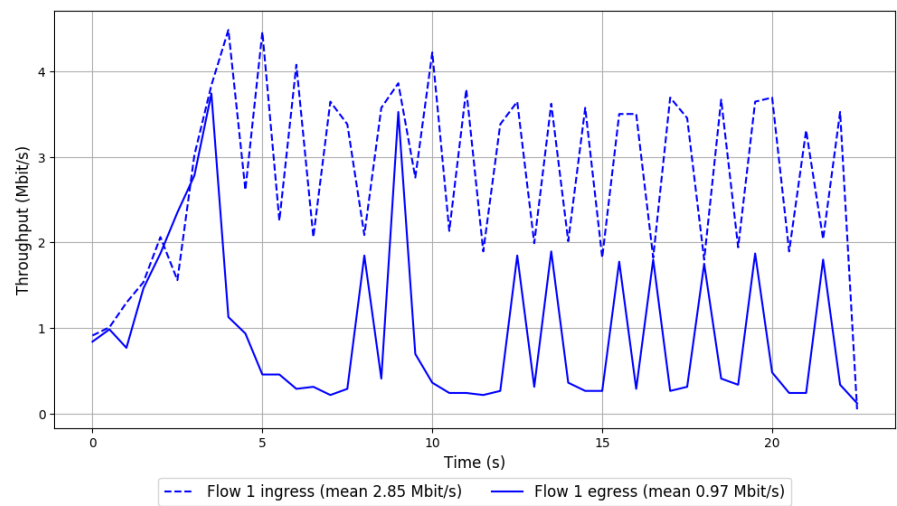


Run 10: Statistics of CalibratedKoho

Start at: 2017-08-11 19:12:56

End at: 2017-08-11 19:13:26

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-08-11 17:29:16

End at: 2017-08-11 17:29:46

Below is generated by plot.py at 2017-08-11 20:09:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.14 Mbit/s

95th percentile per-packet one-way delay: 137.057 ms

Loss rate: 0.00%

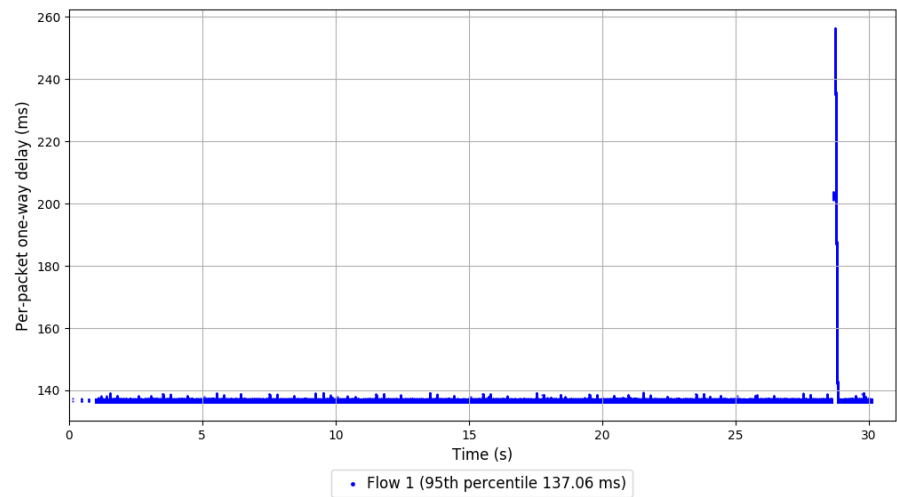
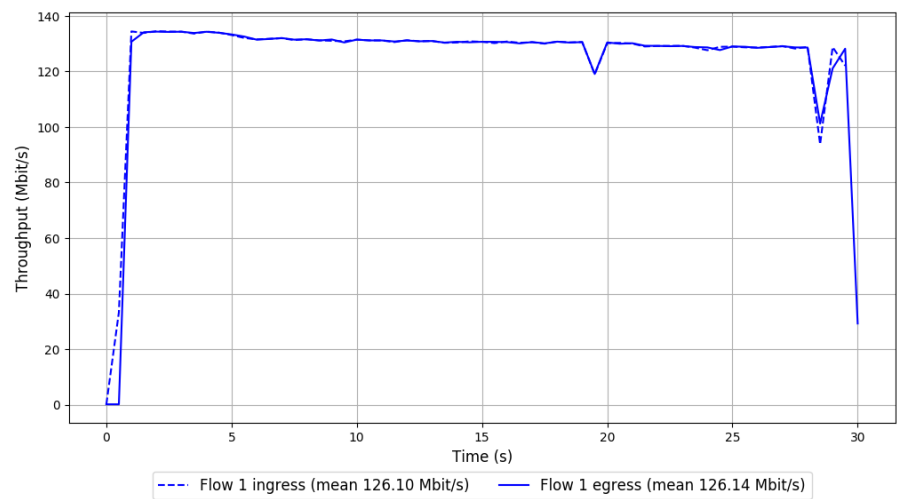
-- Flow 1:

Average throughput: 126.14 Mbit/s

95th percentile per-packet one-way delay: 137.057 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-08-11 17:40:51

End at: 2017-08-11 17:41:21

Below is generated by plot.py at 2017-08-11 20:09:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 137.699 ms

Loss rate: 28.63%

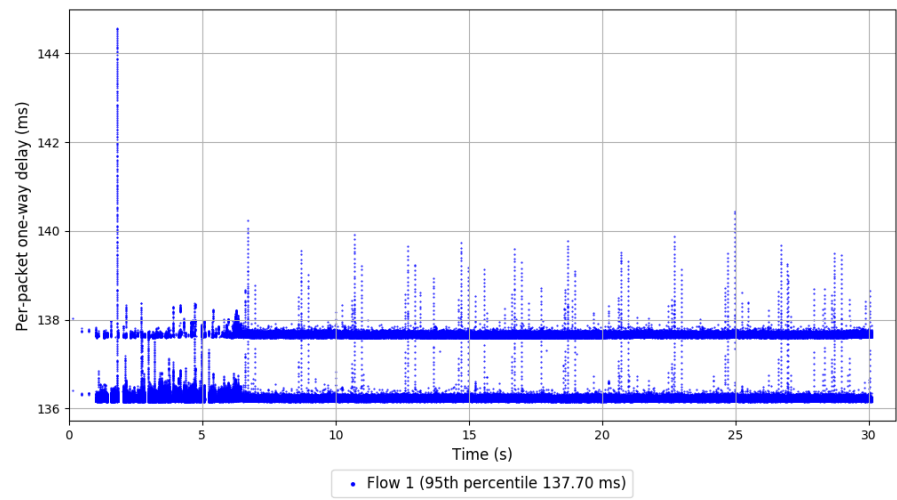
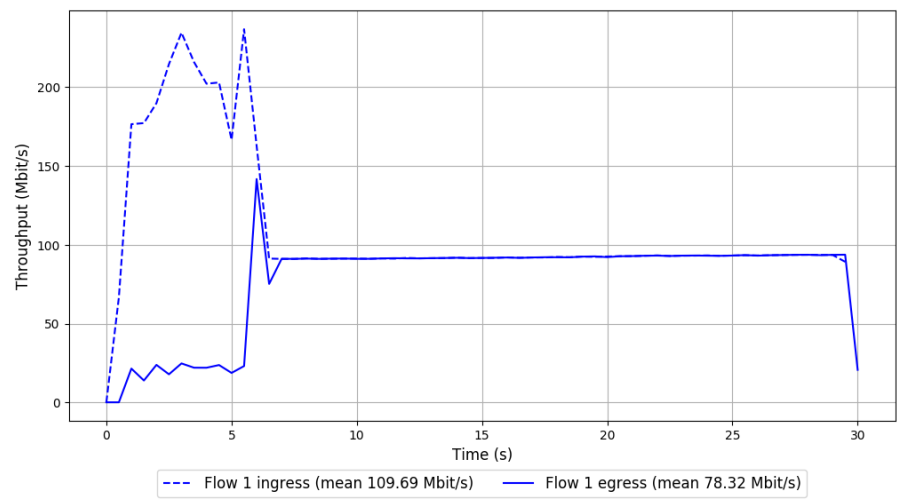
-- Flow 1:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 137.699 ms

Loss rate: 28.63%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-08-11 17:52:08

End at: 2017-08-11 17:52:38

Below is generated by plot.py at 2017-08-11 20:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.59 Mbit/s

95th percentile per-packet one-way delay: 137.805 ms

Loss rate: 0.00%

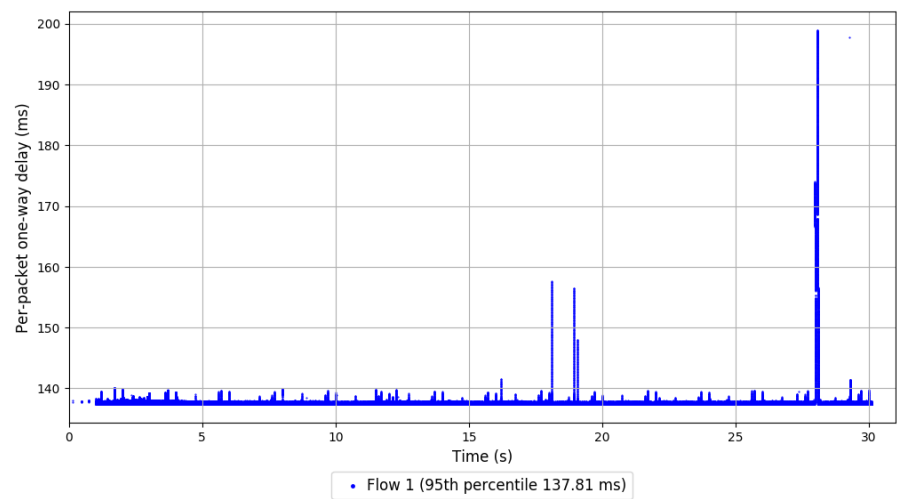
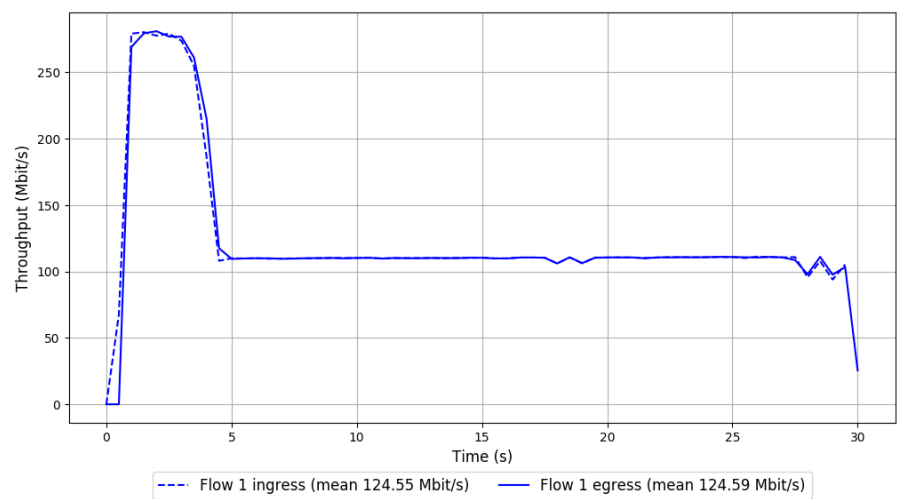
-- Flow 1:

Average throughput: 124.59 Mbit/s

95th percentile per-packet one-way delay: 137.805 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

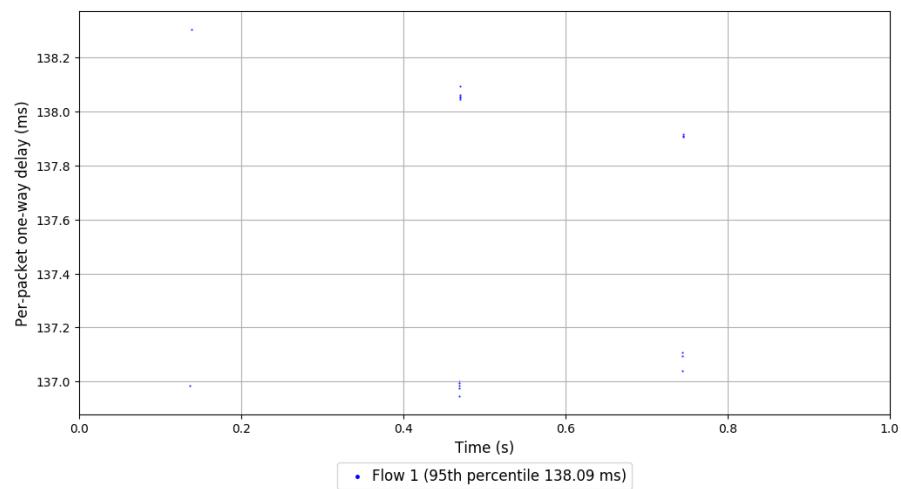
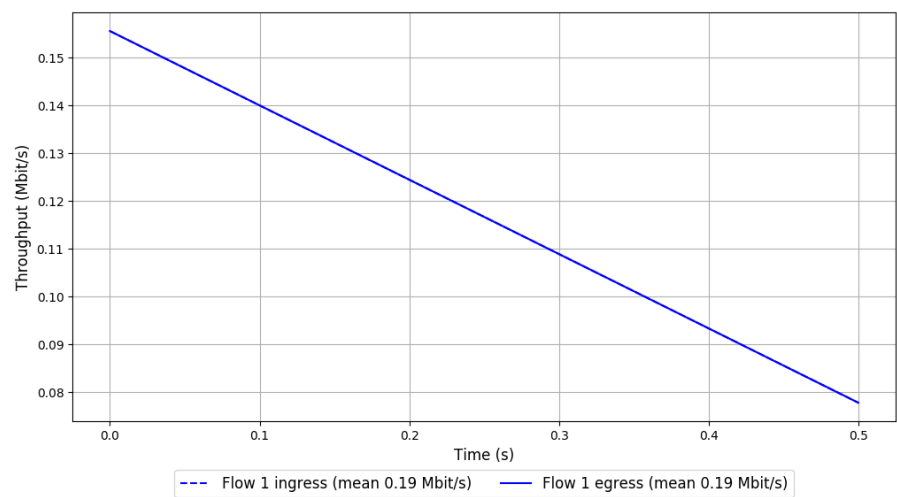


Run 4: Statistics of Copa

Start at: 2017-08-11 18:03:27

End at: 2017-08-11 18:03:57

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-11 18:14:50

End at: 2017-08-11 18:15:20

Below is generated by plot.py at 2017-08-11 20:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 136.995 ms

Loss rate: 0.04%

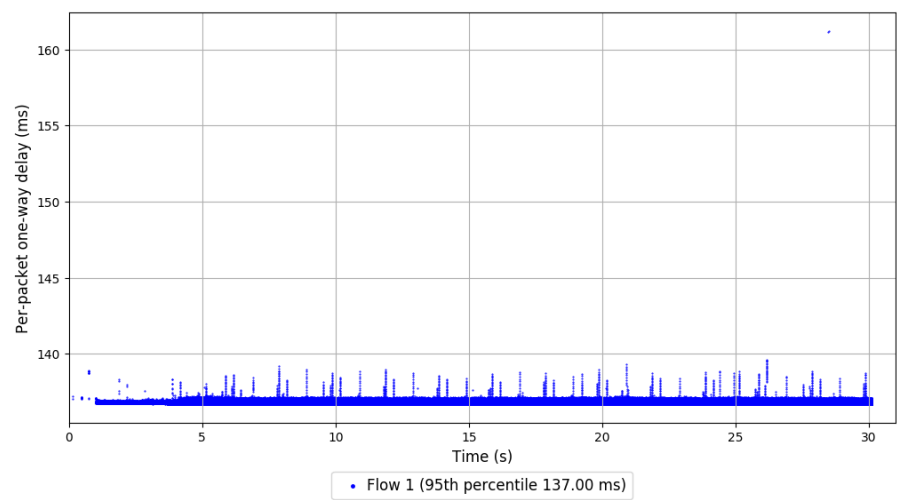
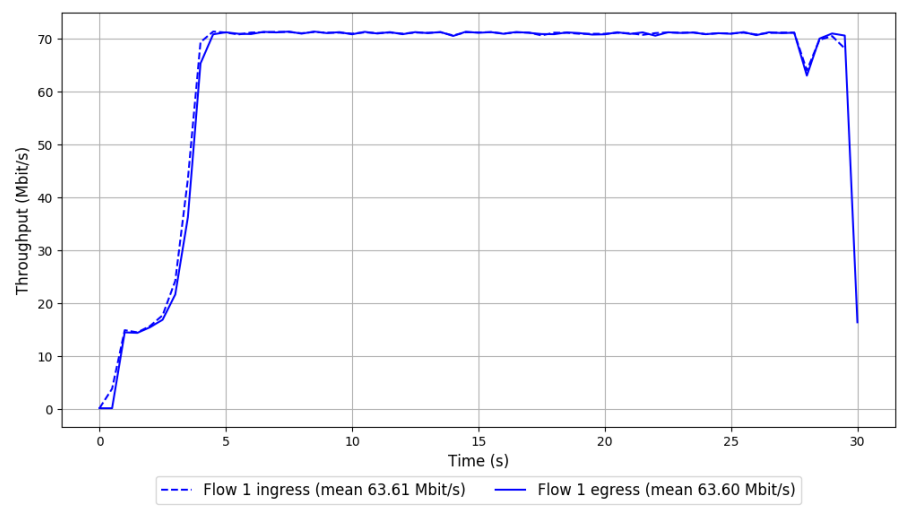
-- Flow 1:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 136.995 ms

Loss rate: 0.04%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-08-11 18:26:29

End at: 2017-08-11 18:26:59

Below is generated by plot.py at 2017-08-11 20:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.87 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 0.00%

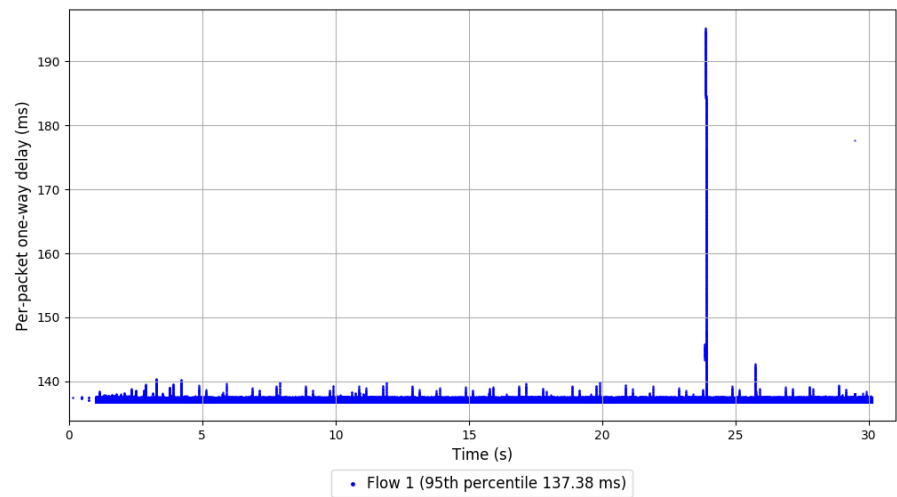
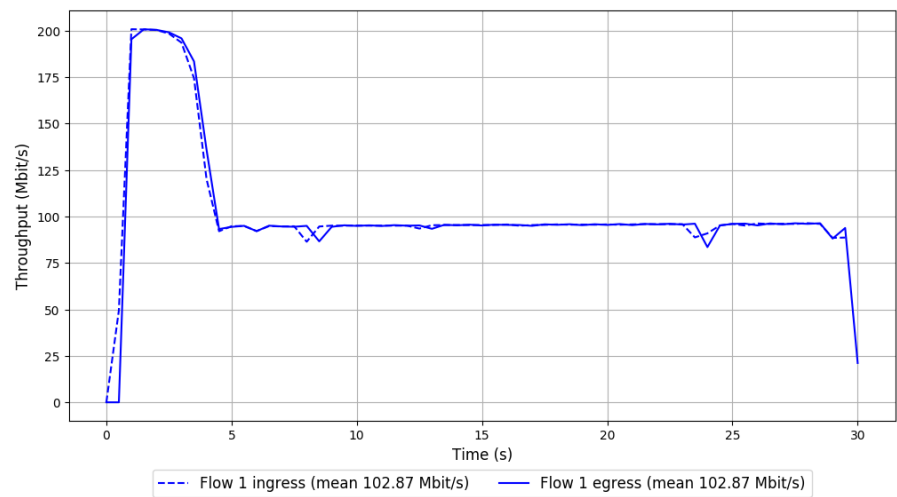
-- Flow 1:

Average throughput: 102.87 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

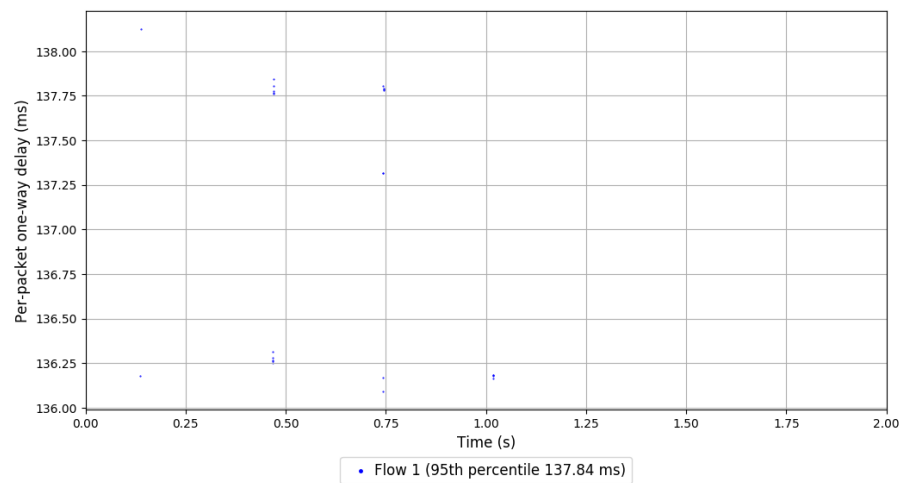
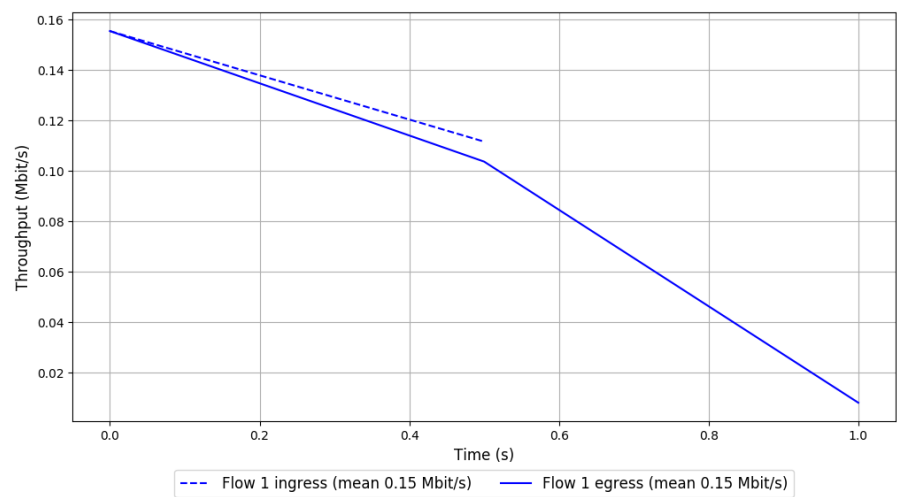


Run 7: Statistics of Copa

Start at: 2017-08-11 18:38:13

End at: 2017-08-11 18:38:43

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-08-11 18:49:20

End at: 2017-08-11 18:49:50

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.49 Mbit/s

95th percentile per-packet one-way delay: 137.838 ms

Loss rate: 0.10%

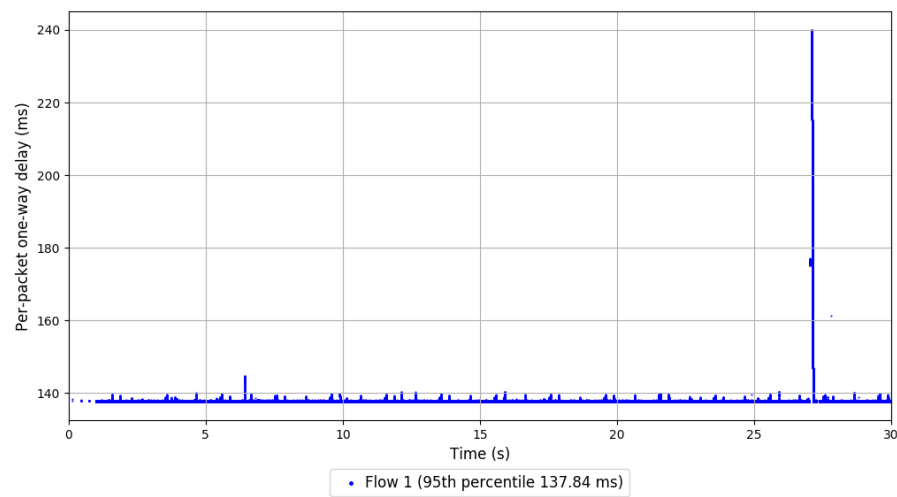
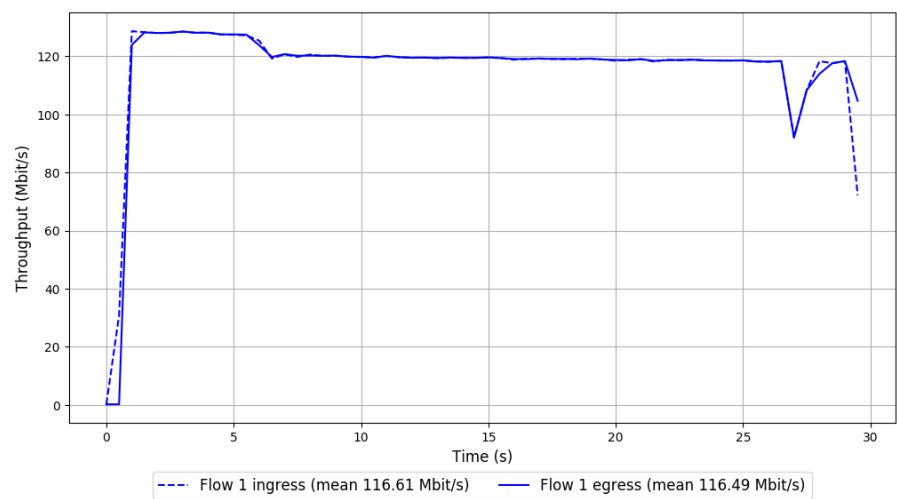
-- Flow 1:

Average throughput: 116.49 Mbit/s

95th percentile per-packet one-way delay: 137.838 ms

Loss rate: 0.10%

Run 8: Report of Copa — Data Link

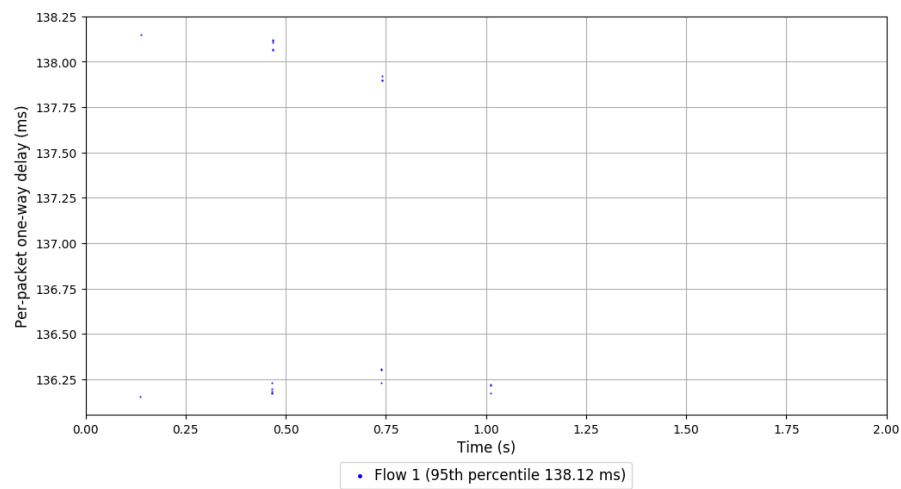
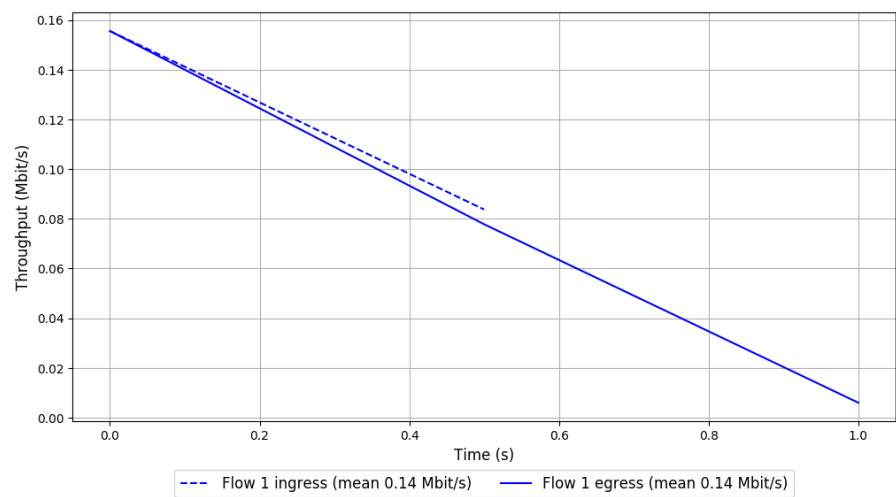


Run 9: Statistics of Copa

Start at: 2017-08-11 19:00:24

End at: 2017-08-11 19:00:54

Run 9: Report of Copa — Data Link

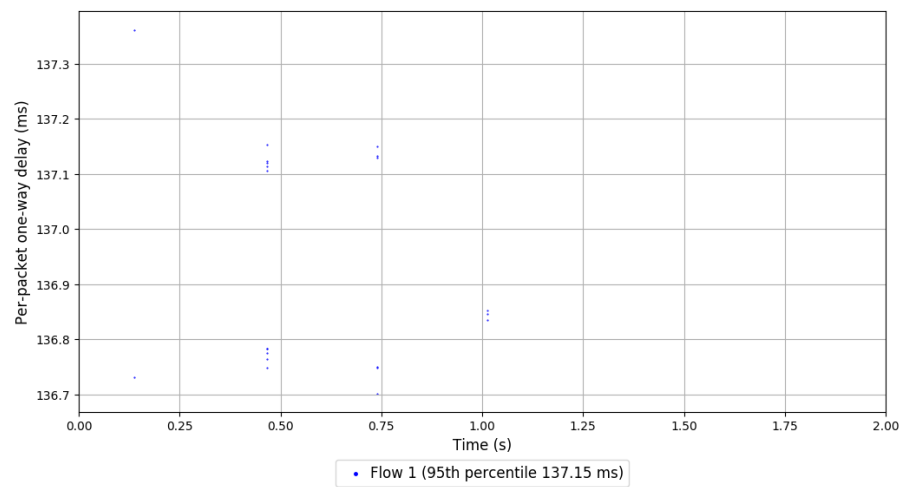
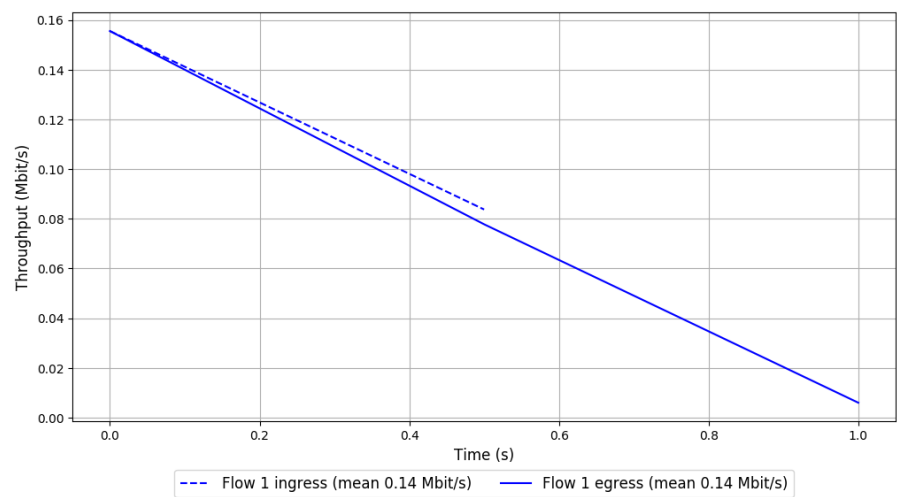


Run 10: Statistics of Copa

Start at: 2017-08-11 19:11:28

End at: 2017-08-11 19:11:58

Run 10: Report of Copa — Data Link

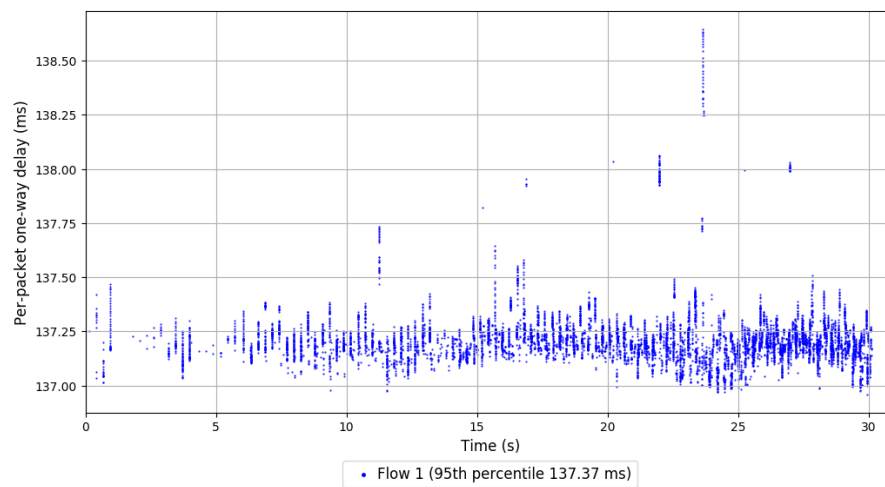
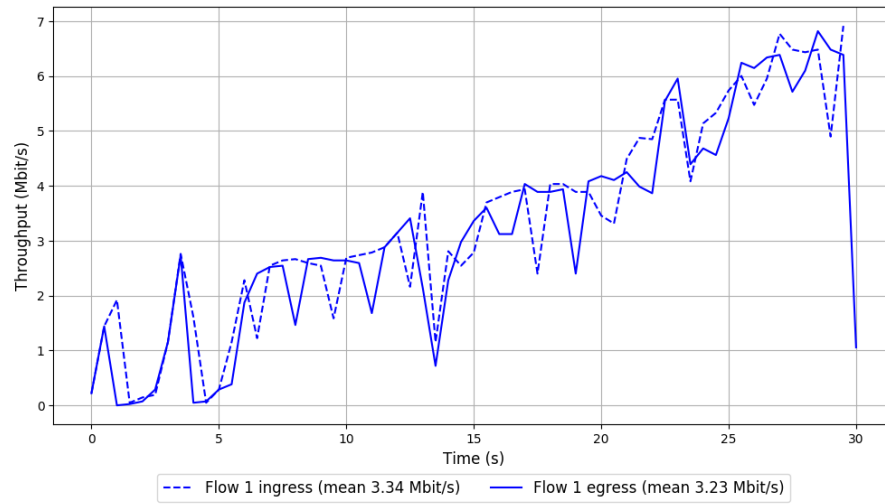


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-11 17:21:17
End at: 2017-08-11 17:21:47

# Below is generated by plot.py at 2017-08-11 20:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 137.370 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 137.370 ms
Loss rate: 3.08%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-08-11 17:32:51

End at: 2017-08-11 17:33:21

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 137.306 ms

Loss rate: 3.15%

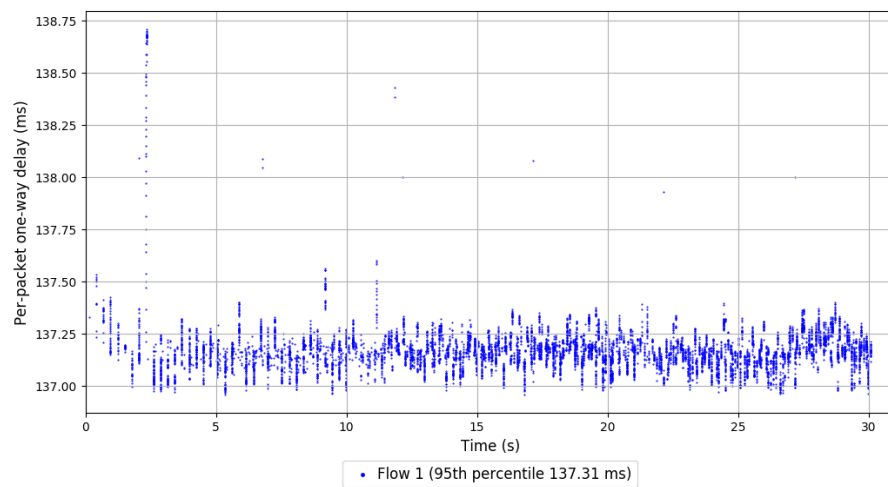
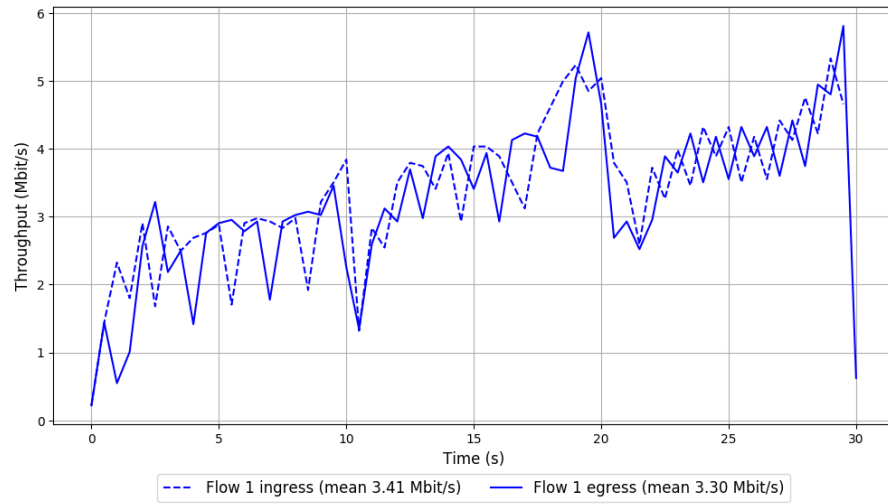
-- Flow 1:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 137.306 ms

Loss rate: 3.15%

Run 2: Report of TCP Cubic — Data Link

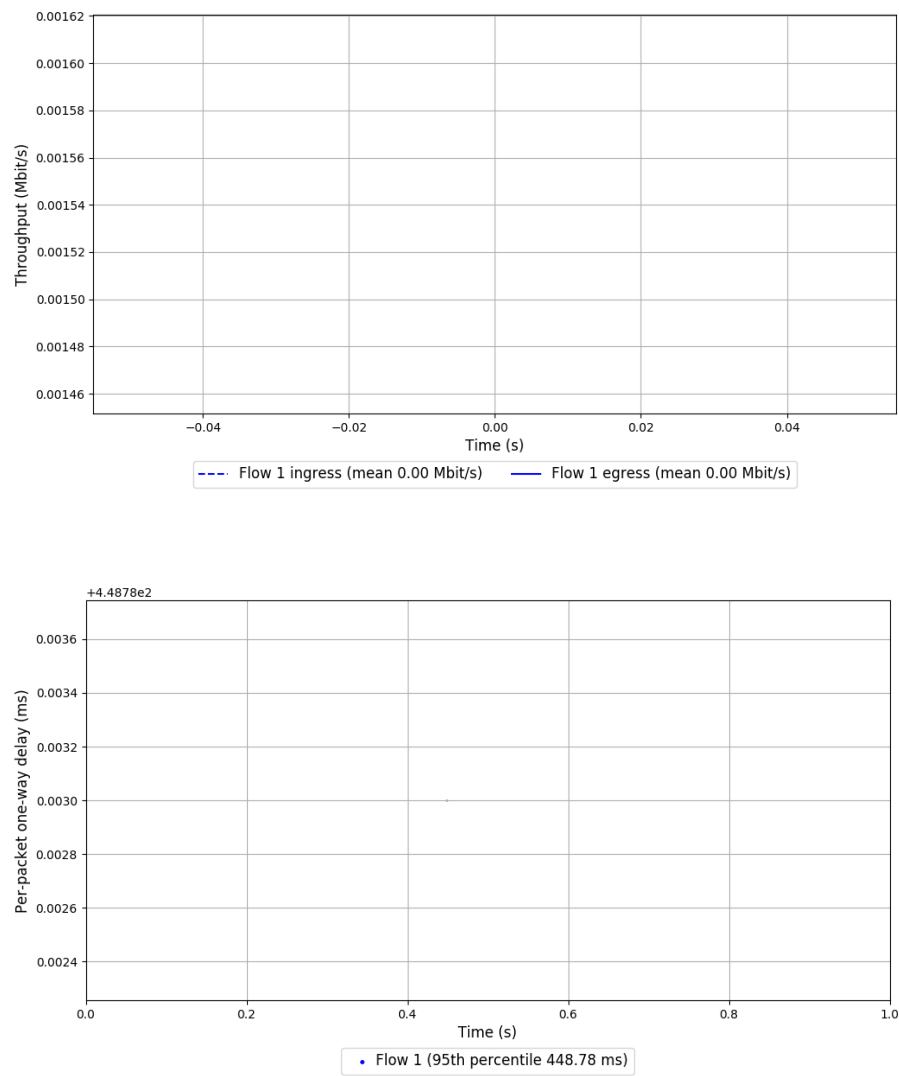


Run 3: Statistics of TCP Cubic

Start at: 2017-08-11 17:43:56

End at: 2017-08-11 17:44:26

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-11 17:55:32

End at: 2017-08-11 17:56:02

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 140.666 ms

Loss rate: 0.13%

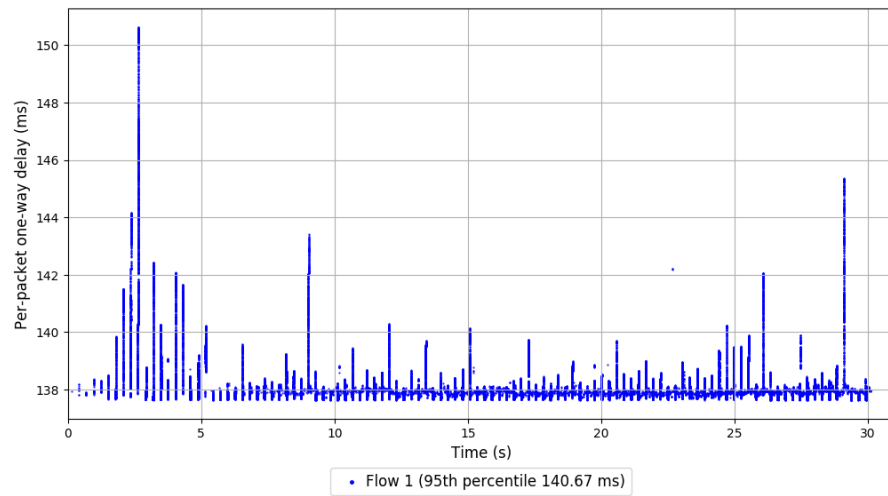
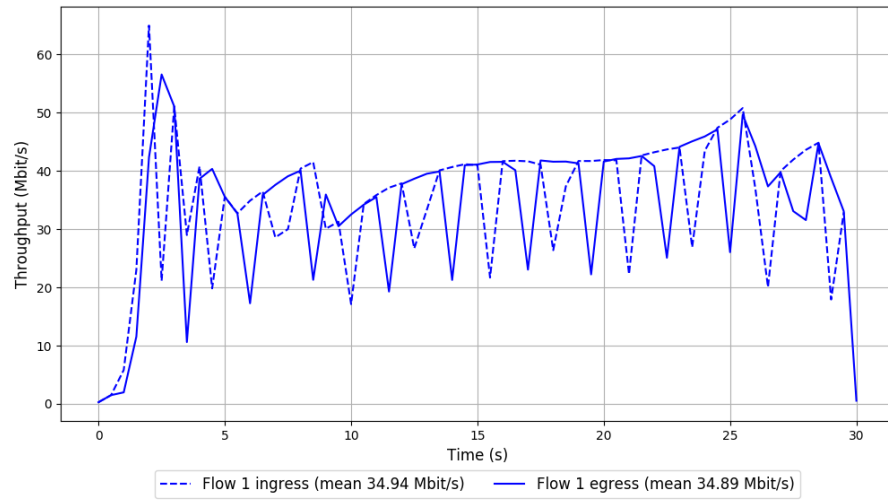
-- Flow 1:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 140.666 ms

Loss rate: 0.13%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-08-11 18:06:36

End at: 2017-08-11 18:07:06

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 137.069 ms

Loss rate: 2.39%

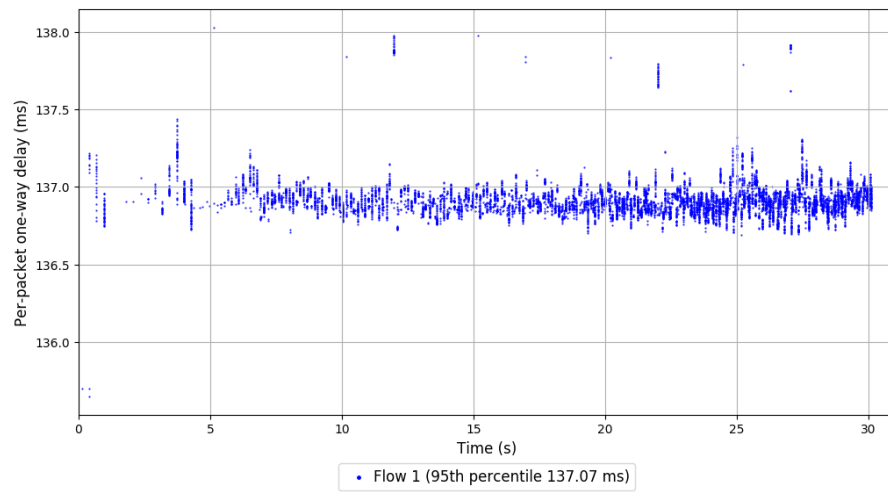
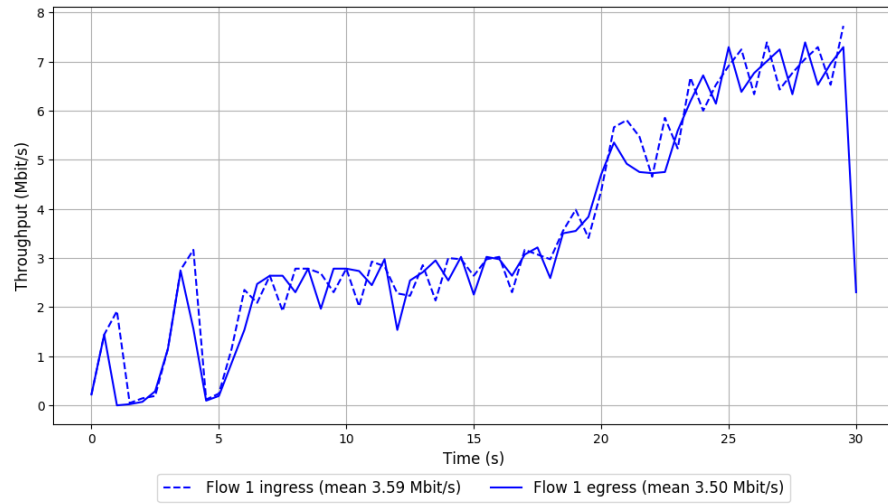
-- Flow 1:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 137.069 ms

Loss rate: 2.39%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-08-11 18:18:14

End at: 2017-08-11 18:18:44

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 137.094 ms

Loss rate: 2.02%

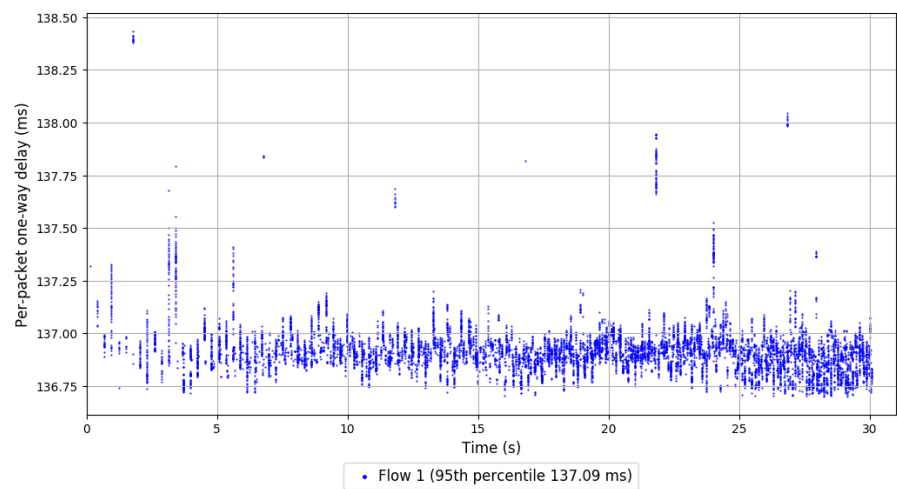
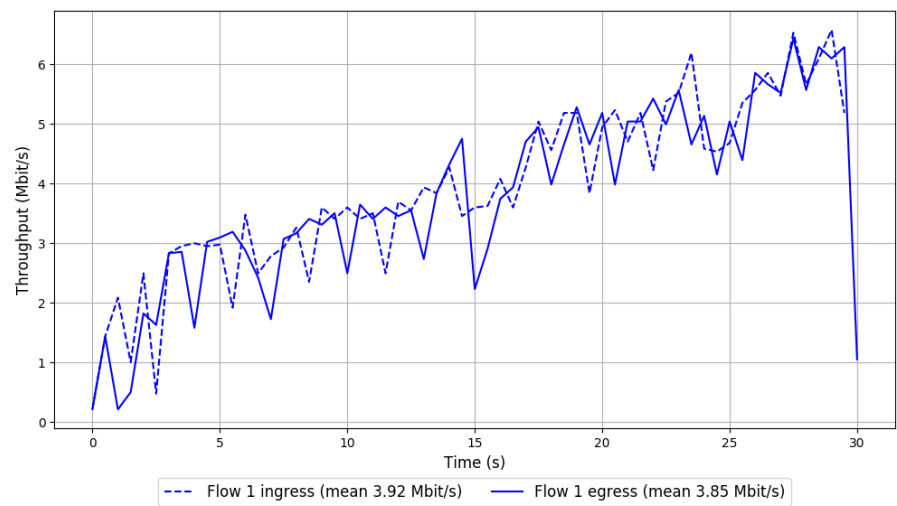
-- Flow 1:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 137.094 ms

Loss rate: 2.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-11 18:30:12

End at: 2017-08-11 18:30:42

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 137.109 ms

Loss rate: 1.85%

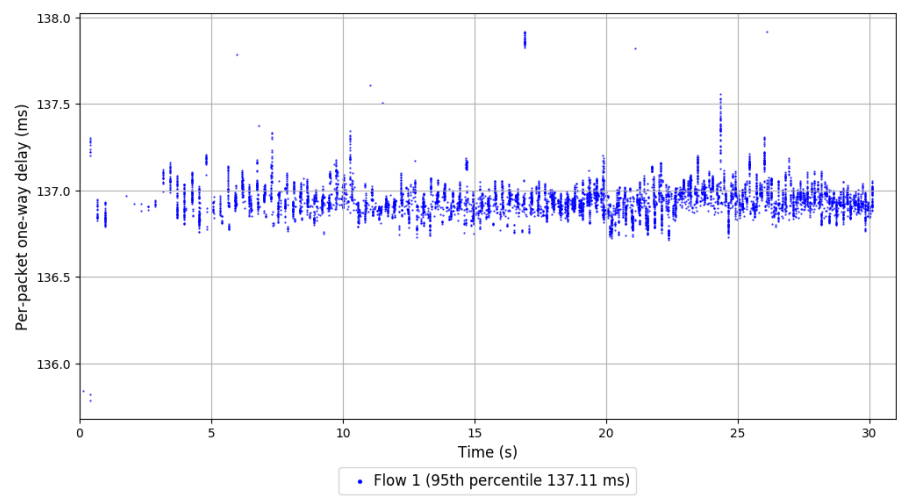
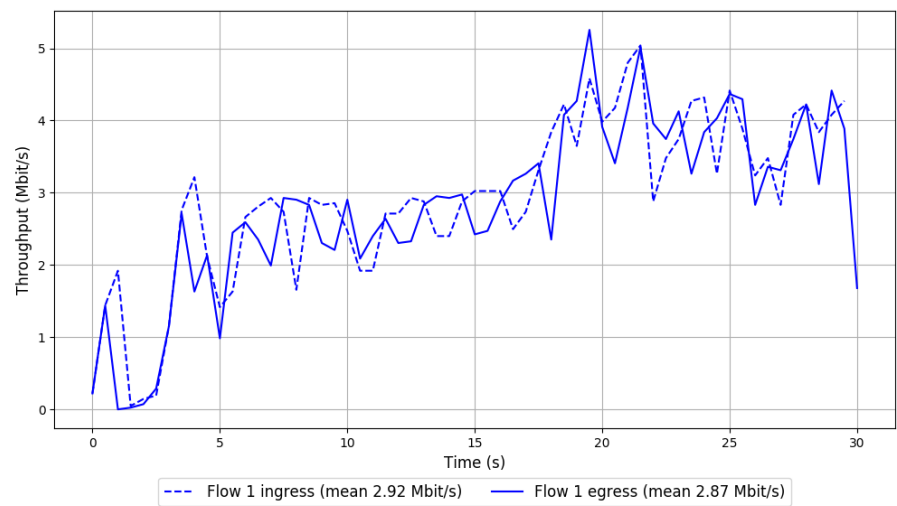
-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 137.109 ms

Loss rate: 1.85%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-11 18:41:22

End at: 2017-08-11 18:41:52

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.00 Mbit/s

95th percentile per-packet one-way delay: 140.262 ms

Loss rate: 0.43%

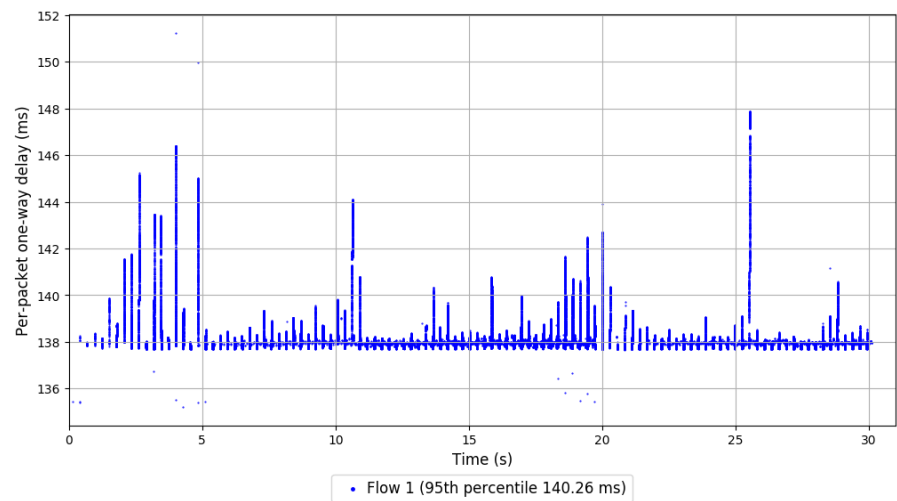
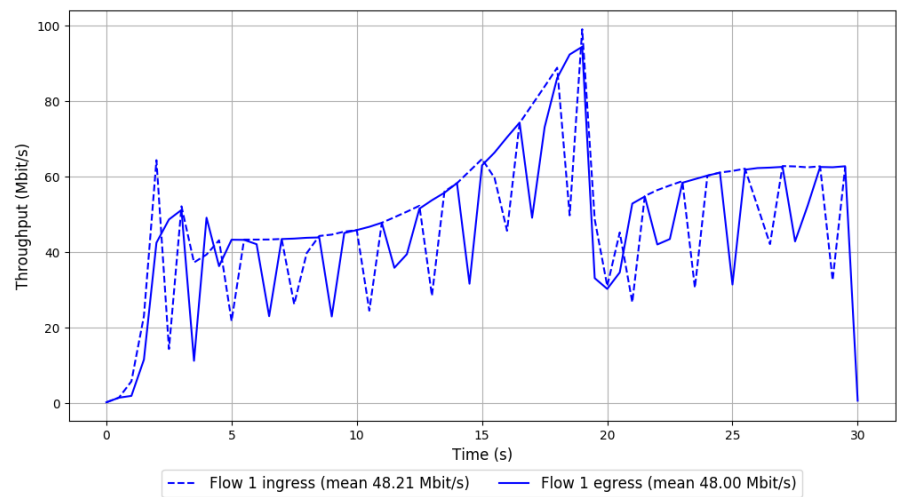
-- Flow 1:

Average throughput: 48.00 Mbit/s

95th percentile per-packet one-way delay: 140.262 ms

Loss rate: 0.43%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-11 18:52:24

End at: 2017-08-11 18:52:54

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 138.046 ms

Loss rate: 3.20%

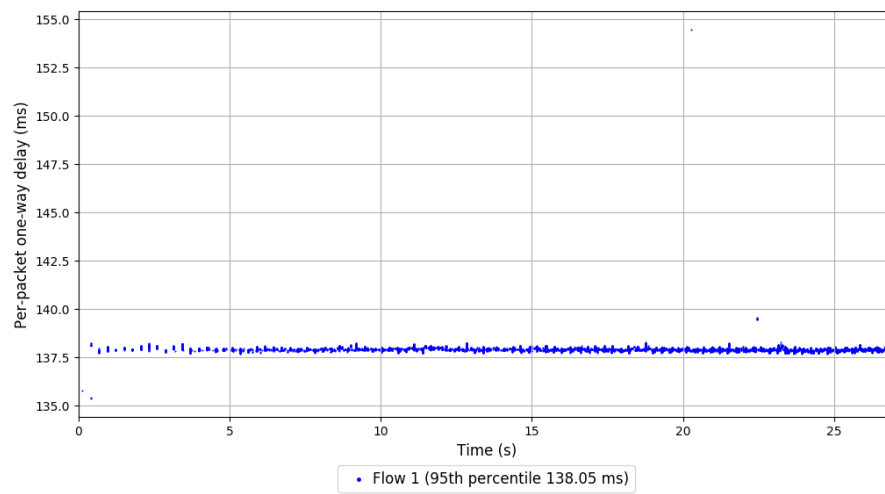
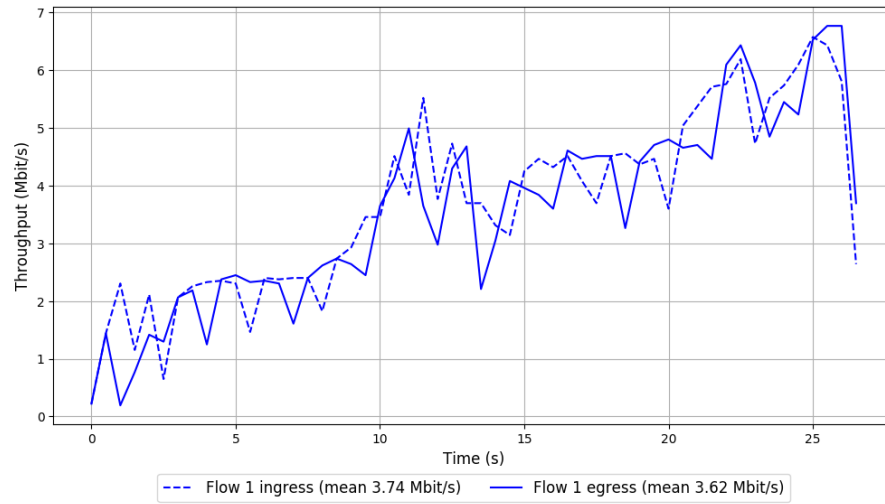
-- Flow 1:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 138.046 ms

Loss rate: 3.20%

Run 9: Report of TCP Cubic — Data Link

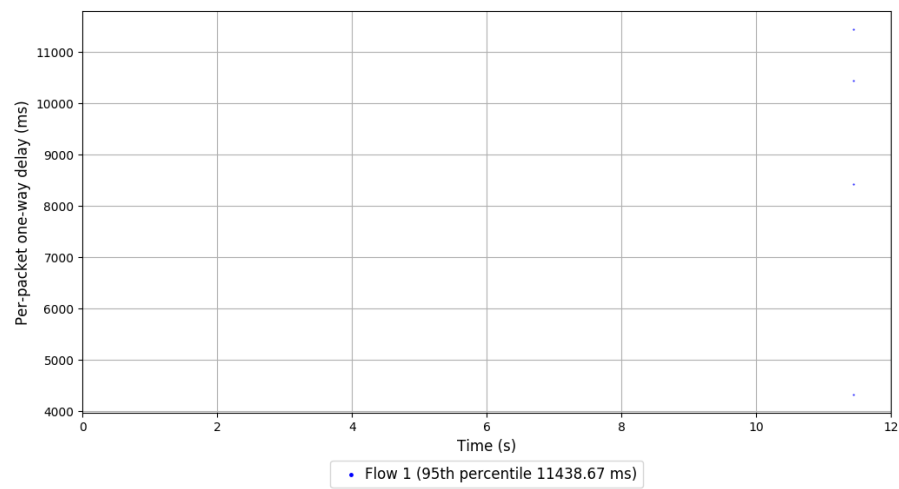
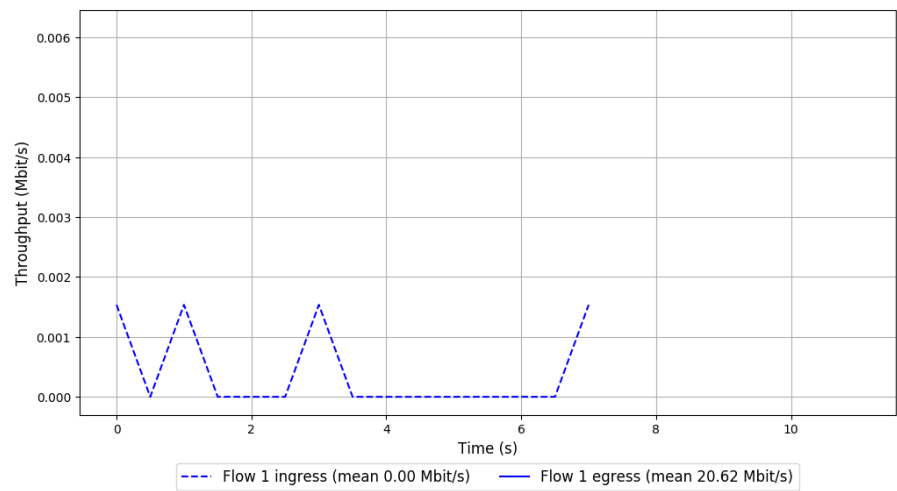


Run 10: Statistics of TCP Cubic

Start at: 2017-08-11 19:03:18

End at: 2017-08-11 19:03:48

Run 10: Report of TCP Cubic — Data Link

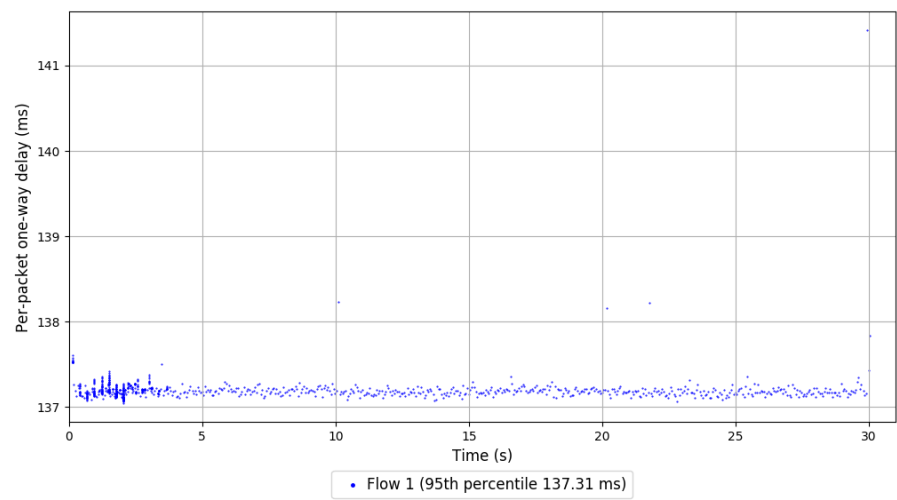
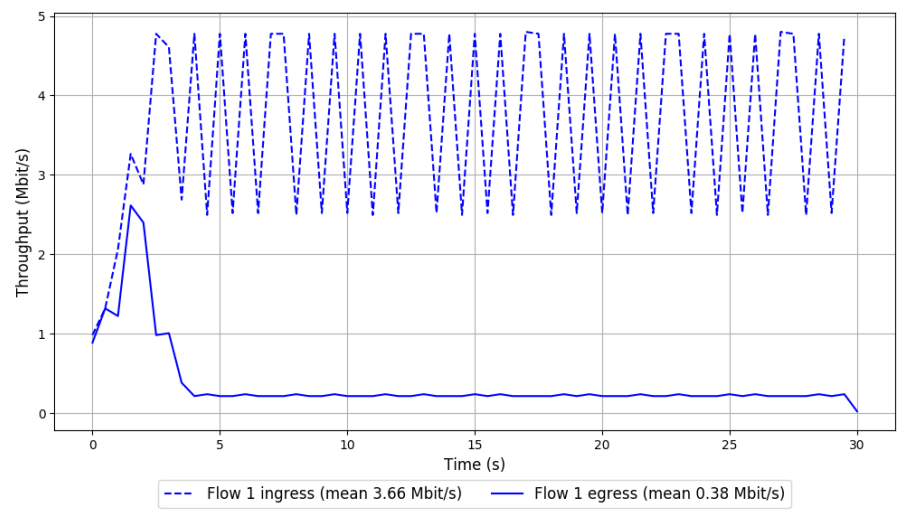


```
Run 1: Statistics of KohoCC

Start at: 2017-08-11 17:22:00
End at: 2017-08-11 17:22:30

# Below is generated by plot.py at 2017-08-11 20:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 137.313 ms
Loss rate: 89.73%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 137.313 ms
Loss rate: 89.73%
```


Run 1: Report of KohoCC — Data Link

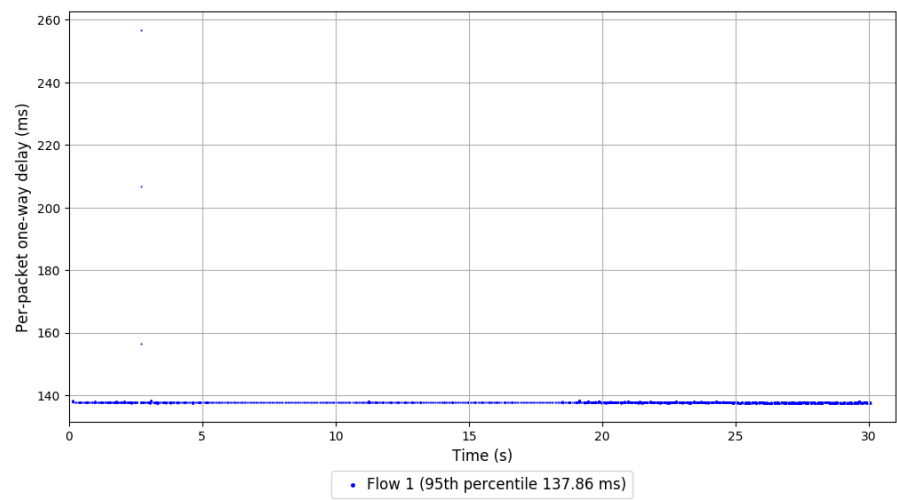
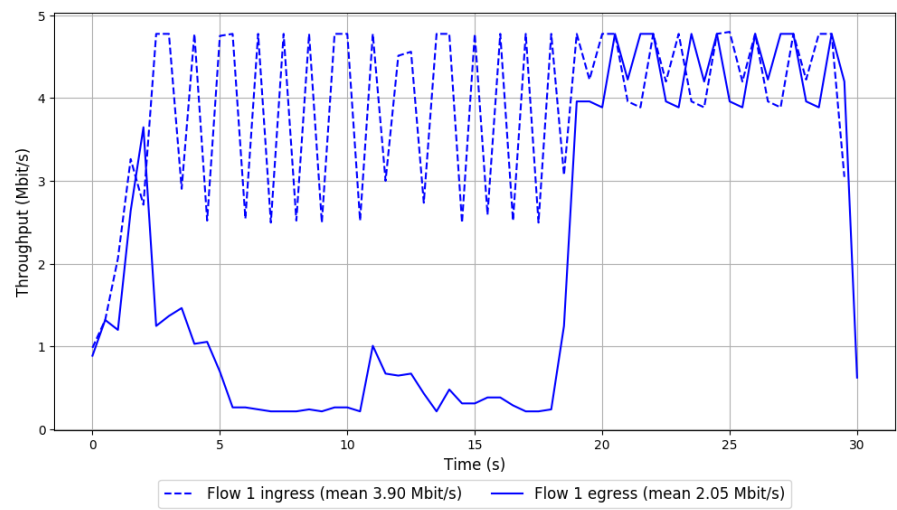


```
Run 2: Statistics of KohoCC

Start at: 2017-08-11 17:33:34
End at: 2017-08-11 17:34:04

# Below is generated by plot.py at 2017-08-11 20:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 137.858 ms
Loss rate: 47.45%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 137.858 ms
Loss rate: 47.45%
```

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-08-11 17:44:37

End at: 2017-08-11 17:45:07

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 138.176 ms

Loss rate: 89.66%

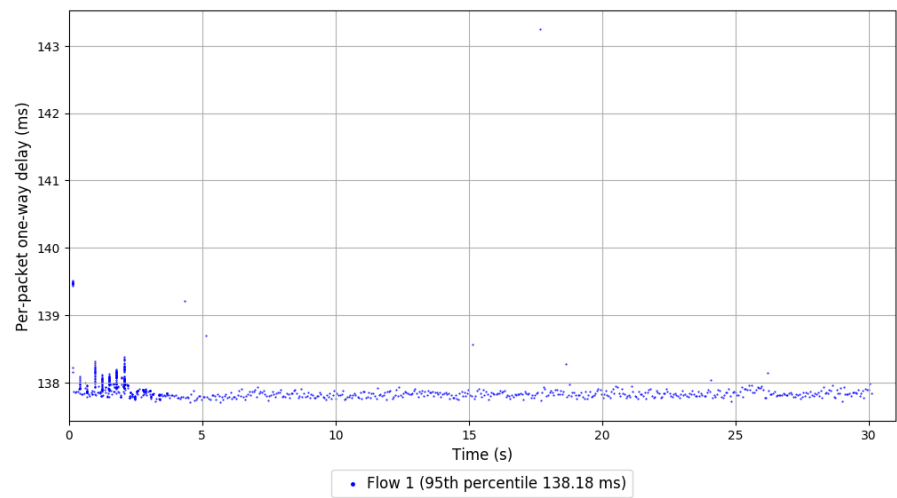
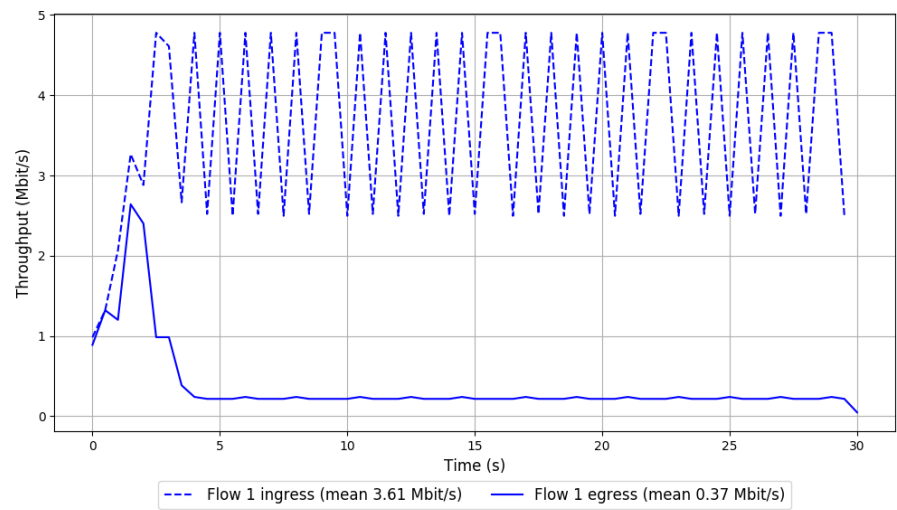
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 138.176 ms

Loss rate: 89.66%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-11 17:56:18

End at: 2017-08-11 17:56:48

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 138.241 ms

Loss rate: 0.11%

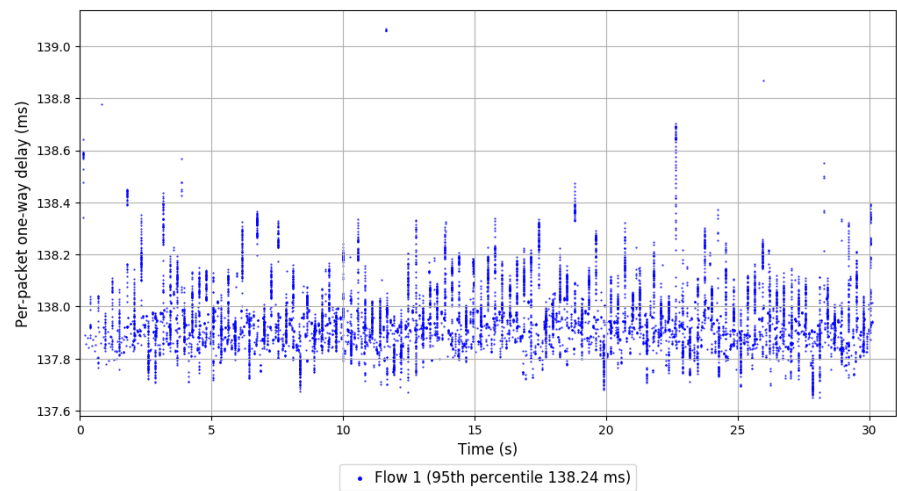
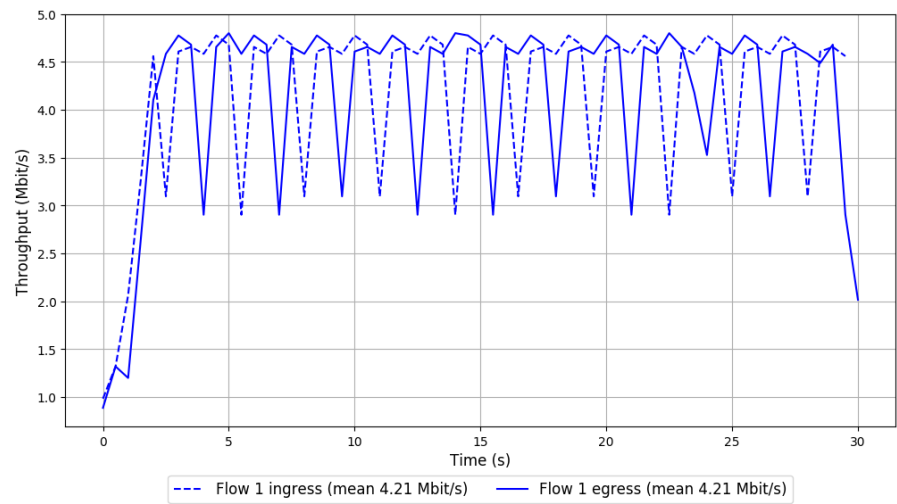
-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 138.241 ms

Loss rate: 0.11%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-11 18:07:19

End at: 2017-08-11 18:07:49

Below is generated by plot.py at 2017-08-11 20:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.059 ms

Loss rate: 88.21%

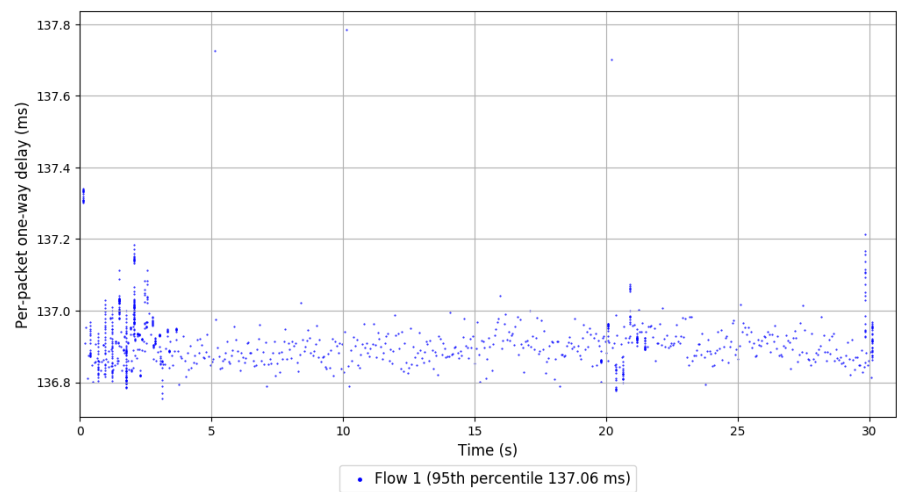
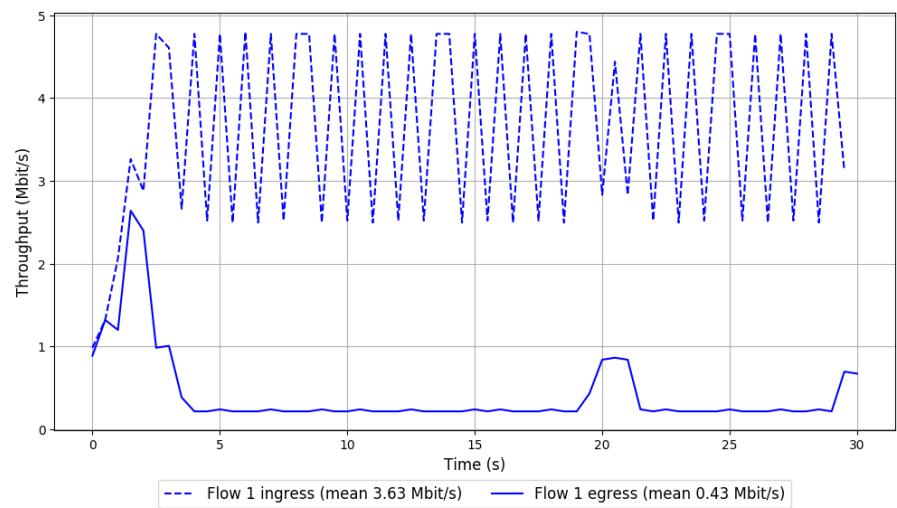
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.059 ms

Loss rate: 88.21%

Run 5: Report of KohoCC — Data Link

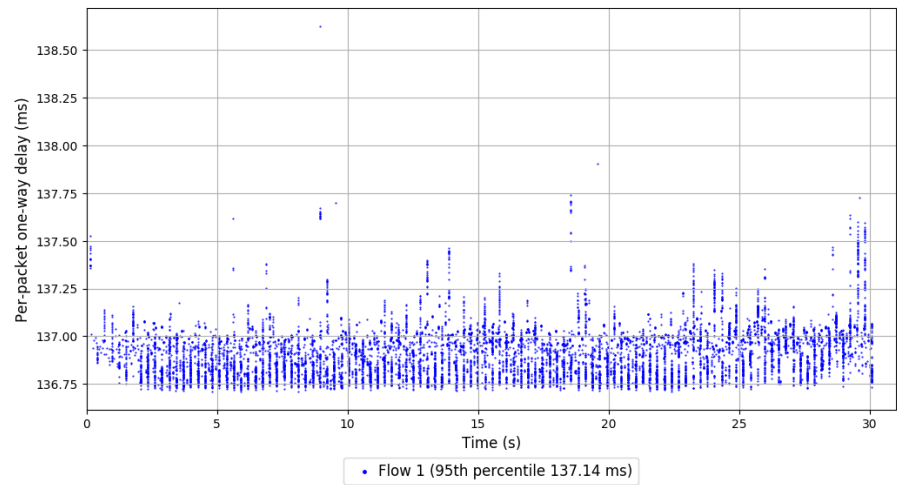
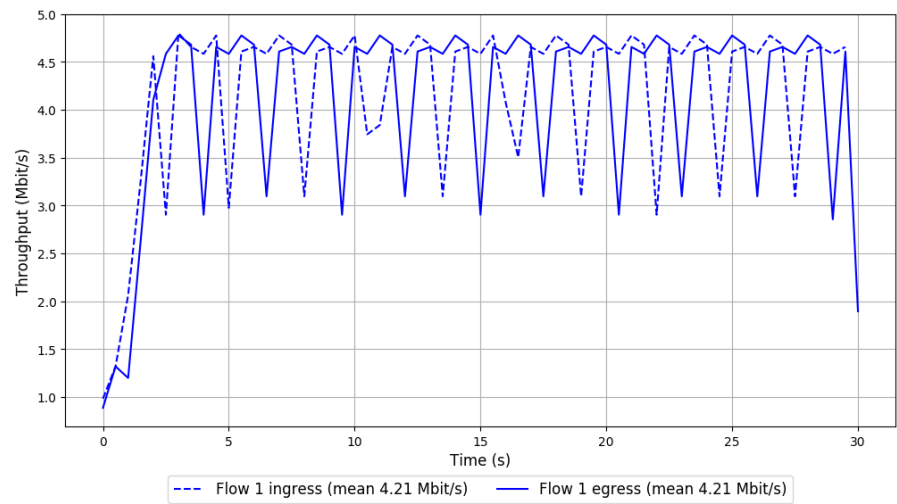


```
Run 6: Statistics of KohoCC

Start at: 2017-08-11 18:18:57
End at: 2017-08-11 18:19:27

# Below is generated by plot.py at 2017-08-11 20:11:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 137.138 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 137.138 ms
Loss rate: 0.10%
```

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-11 18:30:55

End at: 2017-08-11 18:31:25

Below is generated by plot.py at 2017-08-11 20:11:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 137.035 ms

Loss rate: 0.44%

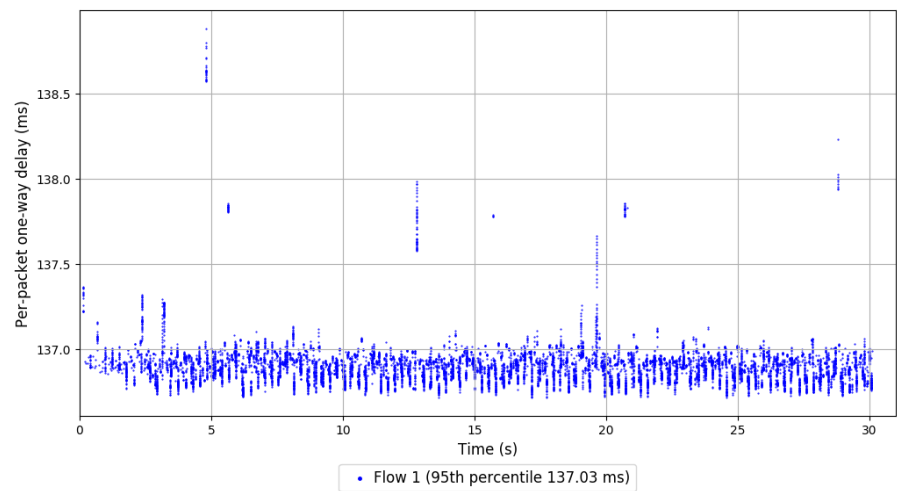
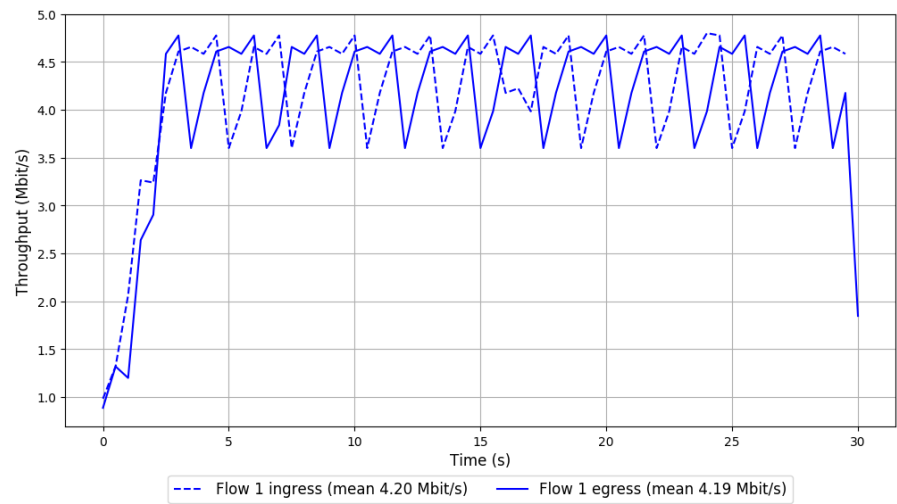
-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 137.035 ms

Loss rate: 0.44%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-11 18:42:08

End at: 2017-08-11 18:42:38

Below is generated by plot.py at 2017-08-11 20:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 138.166 ms

Loss rate: 86.25%

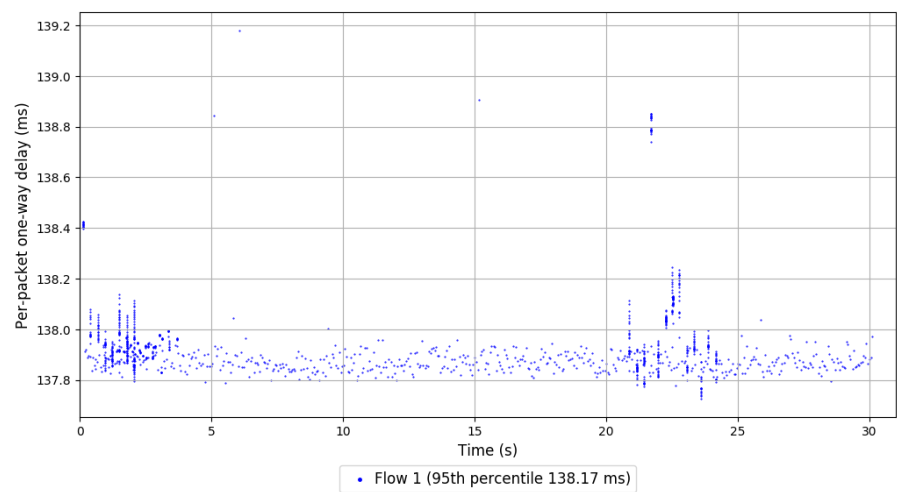
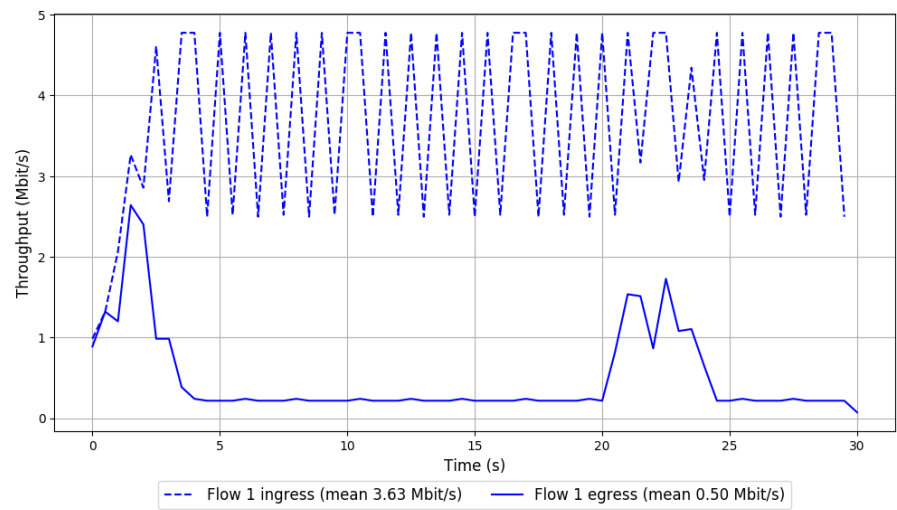
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 138.166 ms

Loss rate: 86.25%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-08-11 18:53:07

End at: 2017-08-11 18:53:37

Below is generated by plot.py at 2017-08-11 20:11:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 138.000 ms

Loss rate: 88.36%

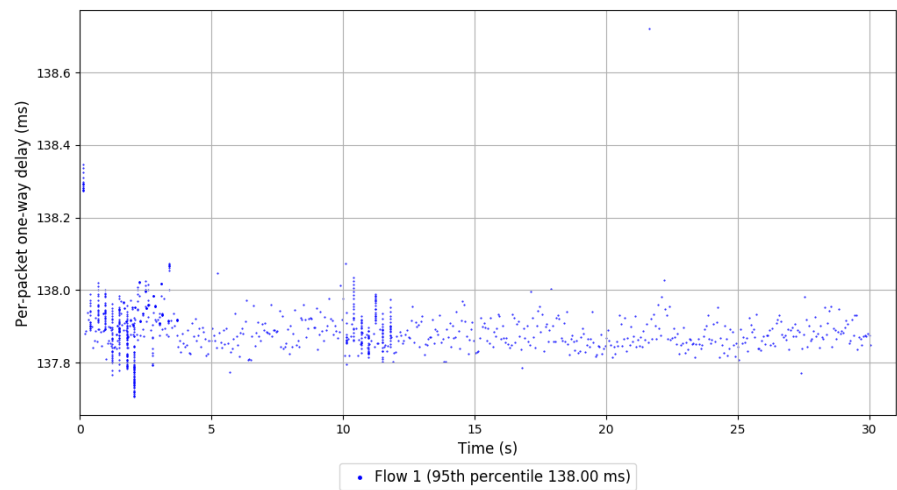
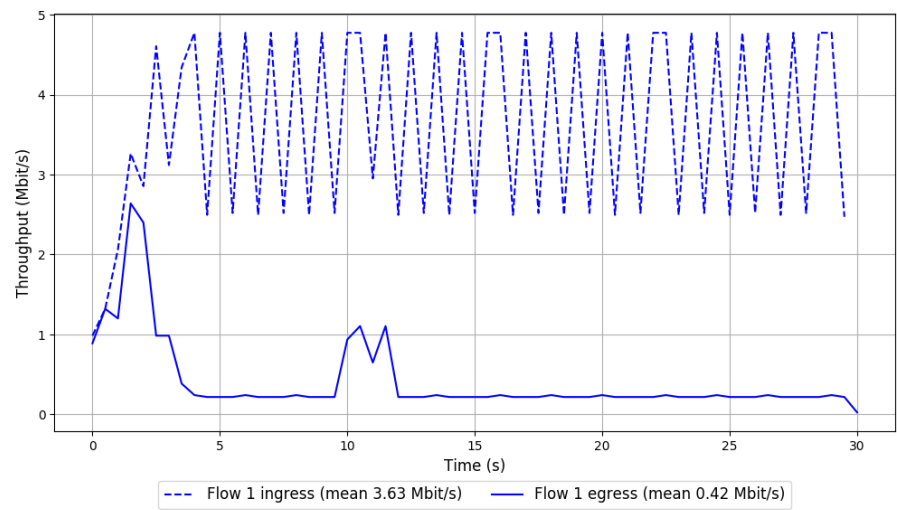
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 138.000 ms

Loss rate: 88.36%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: 2017-08-11 19:04:00

End at: 2017-08-11 19:04:30

Below is generated by plot.py at 2017-08-11 20:11:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 137.504 ms

Loss rate: 0.00%

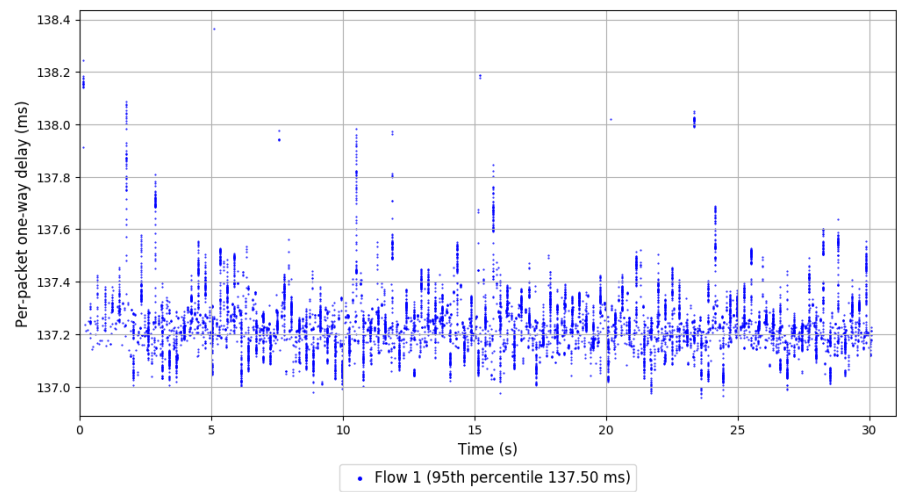
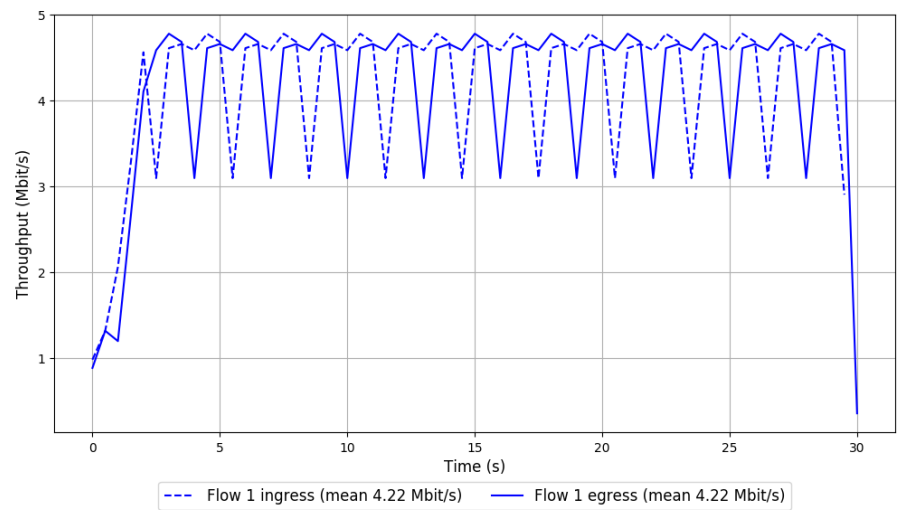
-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 137.504 ms

Loss rate: 0.00%

Run 10: Report of KohoCC — Data Link

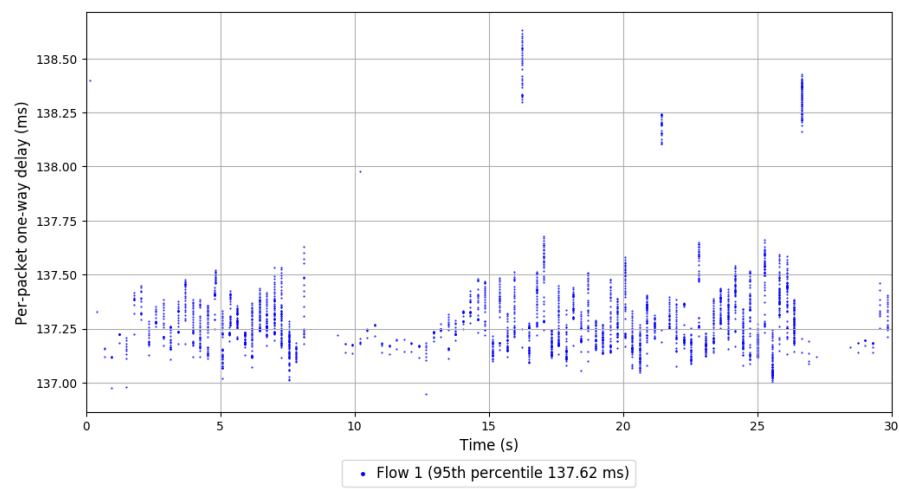
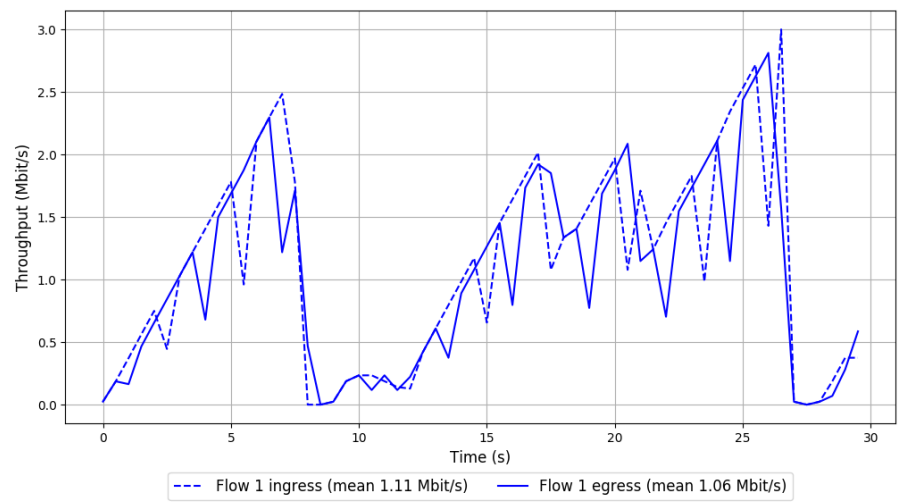


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-11 17:28:34
End at: 2017-08-11 17:29:04

# Below is generated by plot.py at 2017-08-11 20:11:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 137.619 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 137.619 ms
Loss rate: 4.73%
```

Run 1: Report of LEDBAT — Data Link

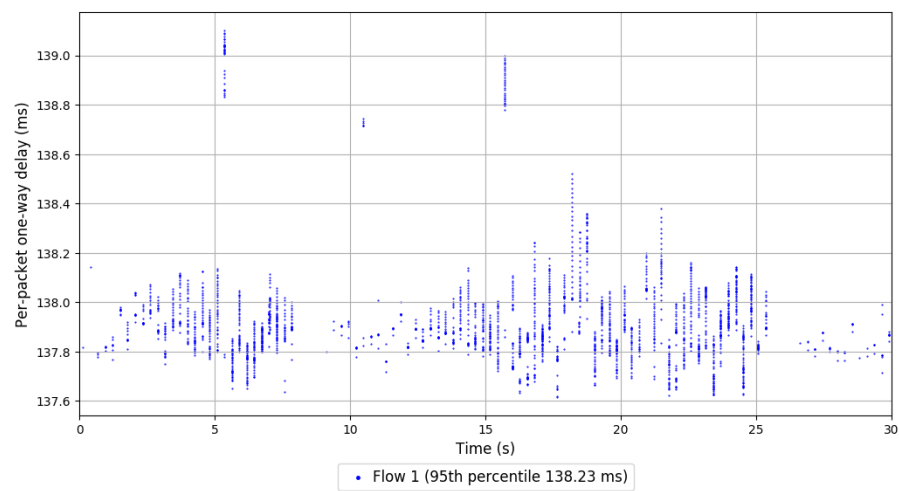
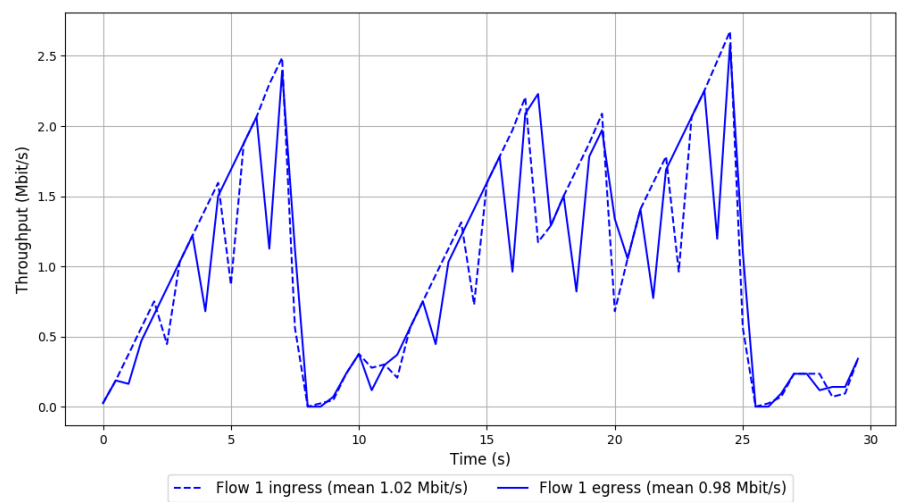


```
Run 2: Statistics of LEDBAT

Start at: 2017-08-11 17:40:09
End at: 2017-08-11 17:40:39

# Below is generated by plot.py at 2017-08-11 20:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 138.227 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 138.227 ms
Loss rate: 3.33%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-11 17:51:26

End at: 2017-08-11 17:51:56

Below is generated by plot.py at 2017-08-11 20:11:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 138.175 ms

Loss rate: 3.81%

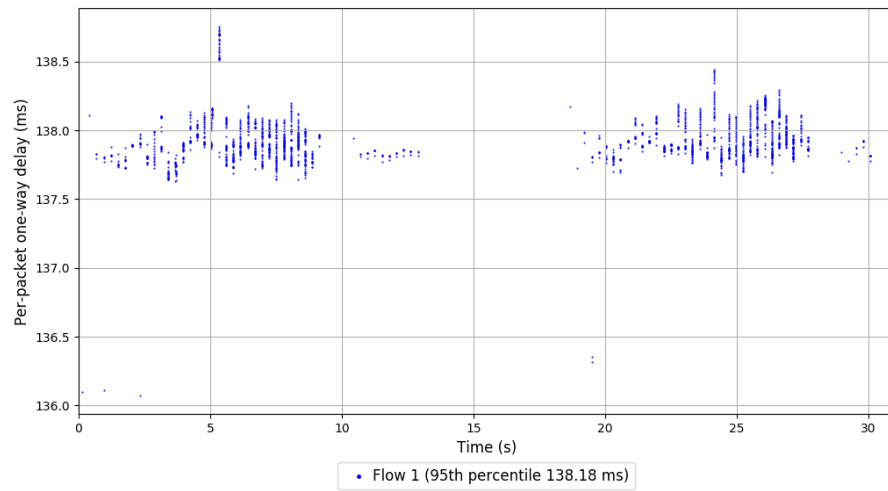
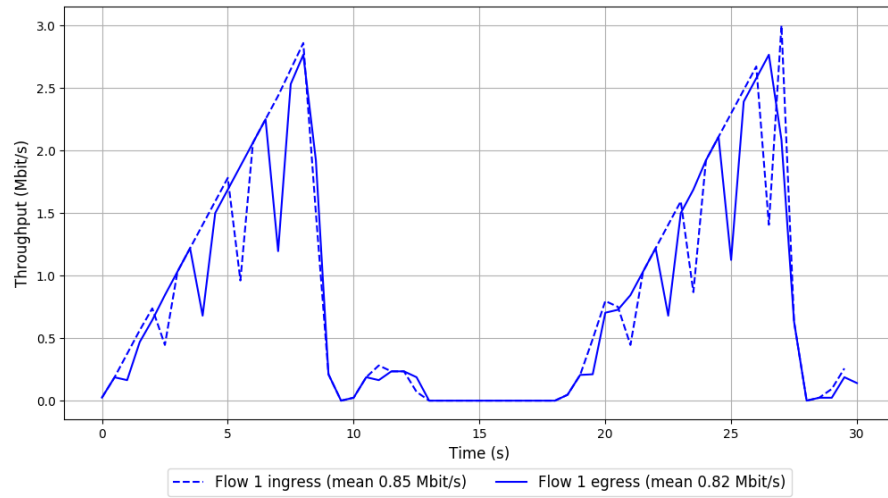
-- Flow 1:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 138.175 ms

Loss rate: 3.81%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-08-11 18:02:45

End at: 2017-08-11 18:03:15

Below is generated by plot.py at 2017-08-11 20:11:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 138.704 ms

Loss rate: 4.70%

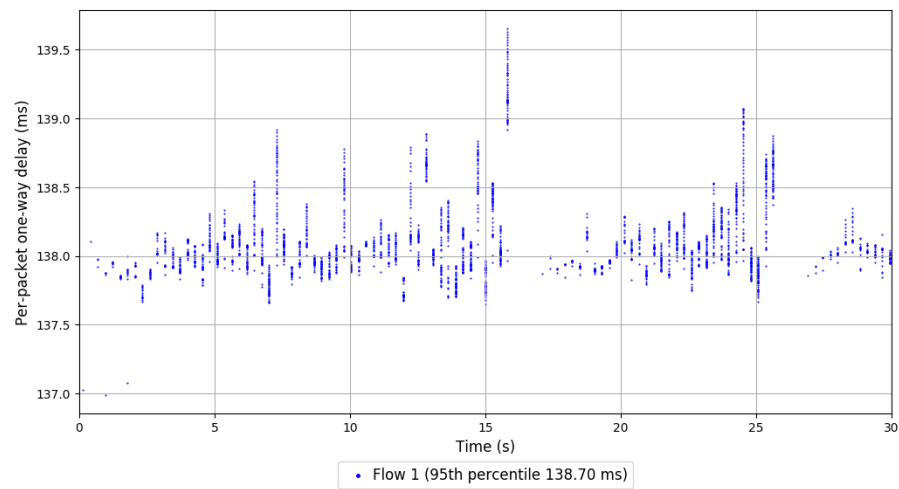
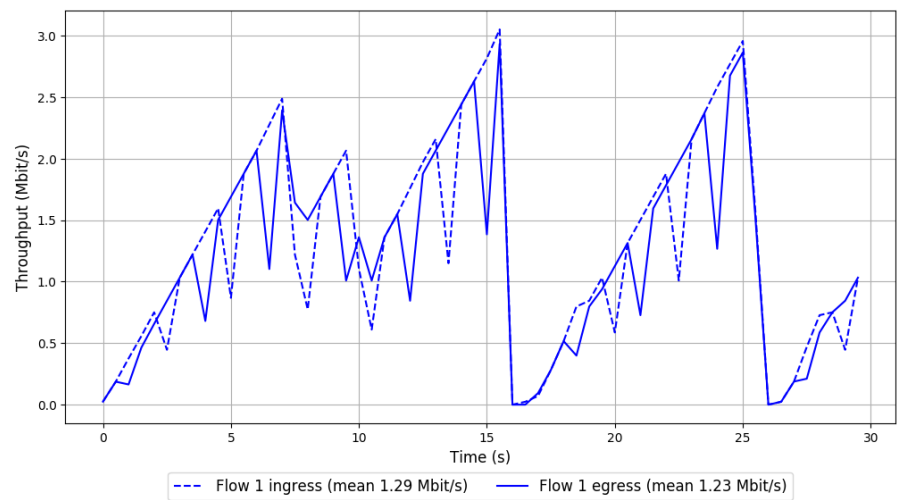
-- Flow 1:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 138.704 ms

Loss rate: 4.70%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-08-11 18:14:07

End at: 2017-08-11 18:14:37

Below is generated by plot.py at 2017-08-11 20:11:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 137.237 ms

Loss rate: 3.41%

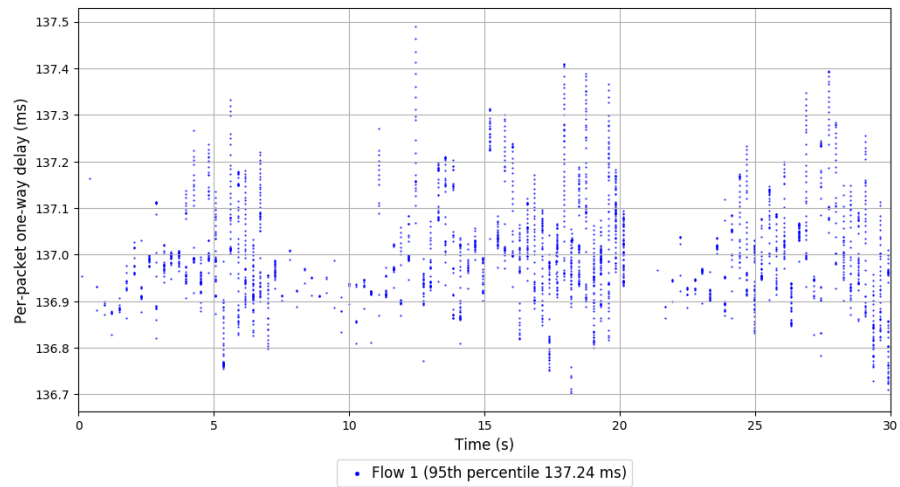
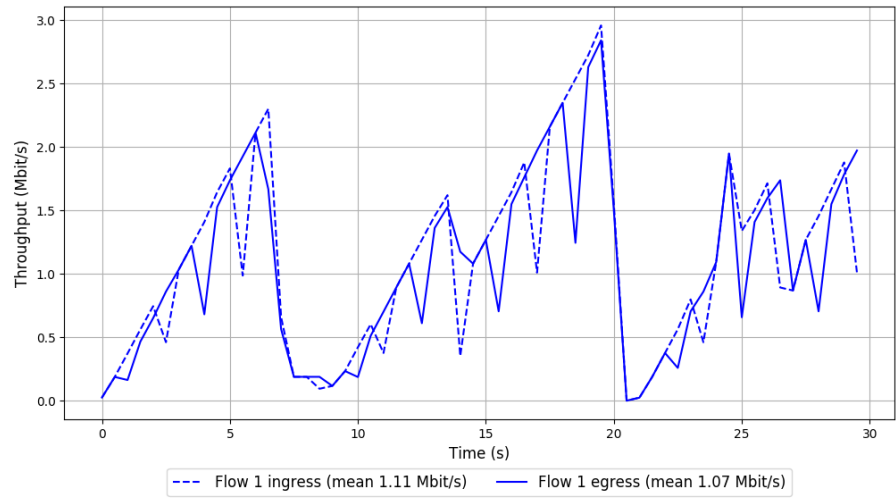
-- Flow 1:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 137.237 ms

Loss rate: 3.41%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-11 18:25:46

End at: 2017-08-11 18:26:16

Below is generated by plot.py at 2017-08-11 20:11:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 138.034 ms

Loss rate: 0.00%

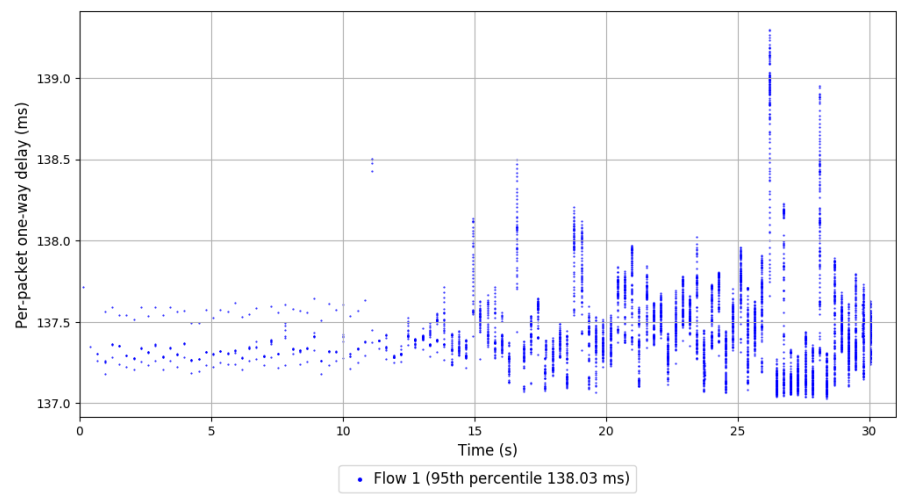
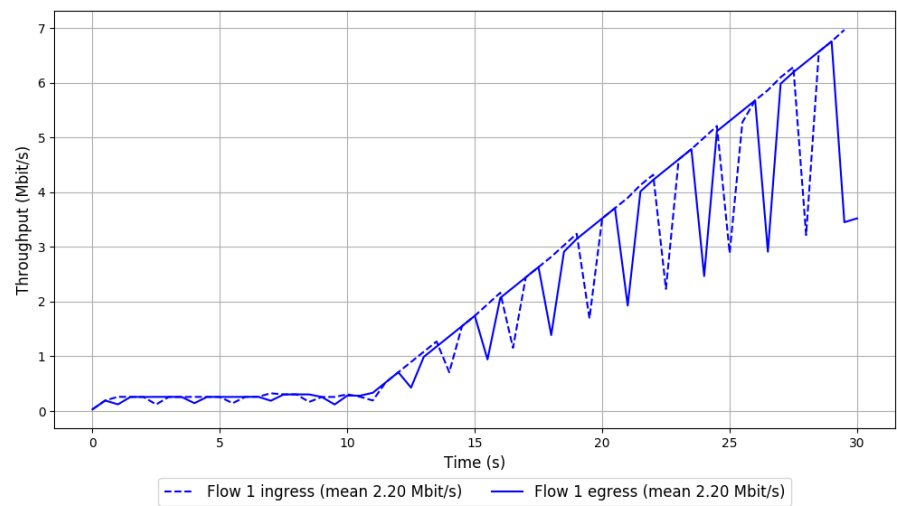
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 138.034 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-08-11 18:37:30

End at: 2017-08-11 18:38:00

Below is generated by plot.py at 2017-08-11 20:11:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 138.158 ms

Loss rate: 4.59%

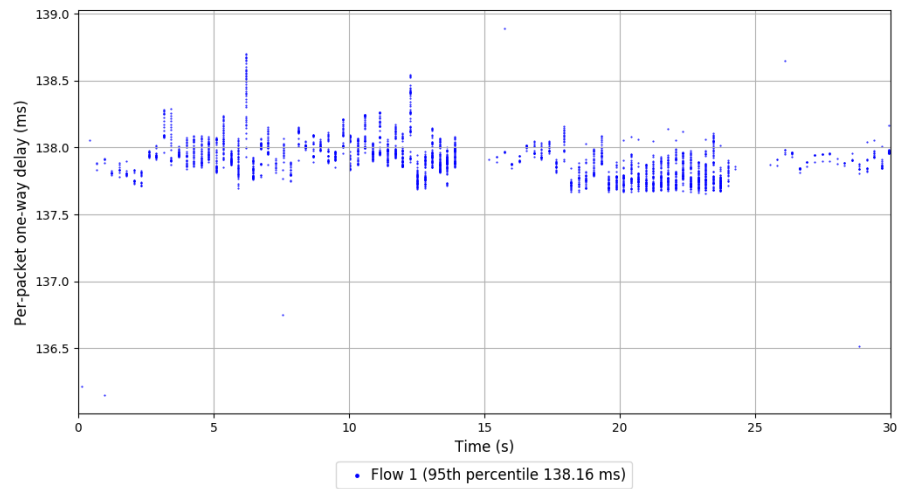
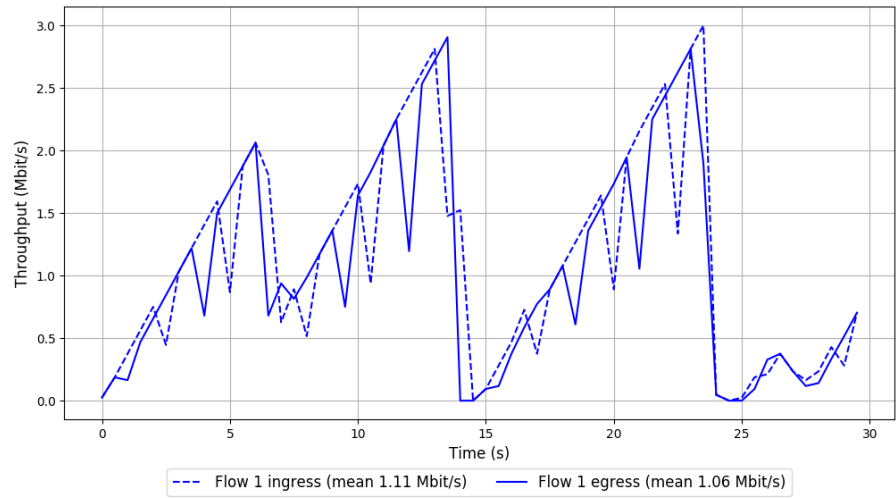
-- Flow 1:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 138.158 ms

Loss rate: 4.59%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-11 18:48:38

End at: 2017-08-11 18:49:08

Below is generated by plot.py at 2017-08-11 20:11:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 138.213 ms

Loss rate: 2.74%

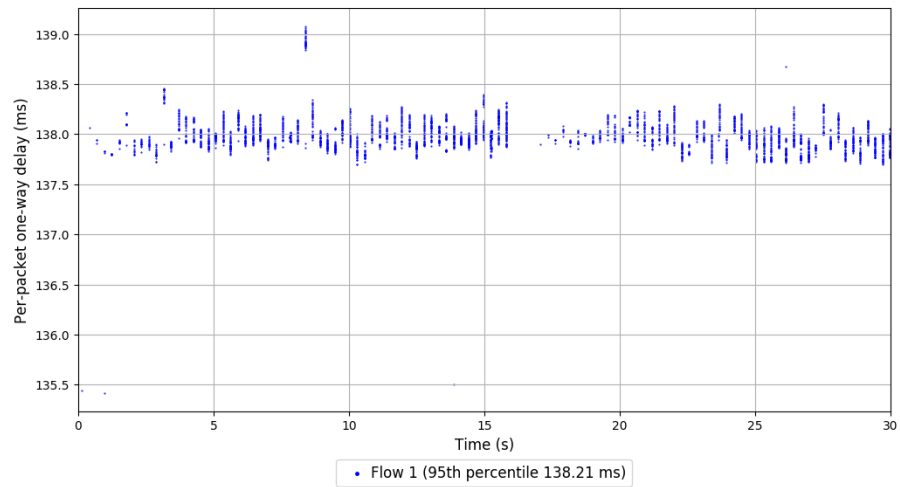
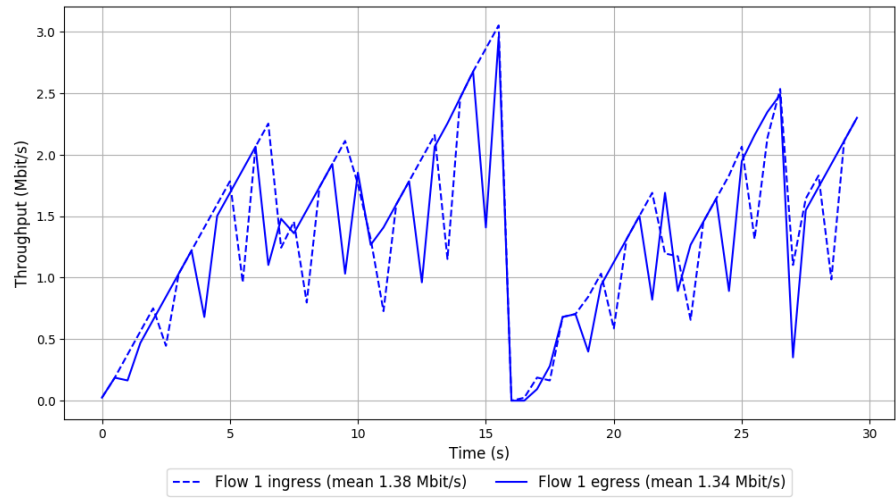
-- Flow 1:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 138.213 ms

Loss rate: 2.74%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-11 18:59:42

End at: 2017-08-11 19:00:12

Below is generated by plot.py at 2017-08-11 20:11:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 138.397 ms

Loss rate: 4.40%

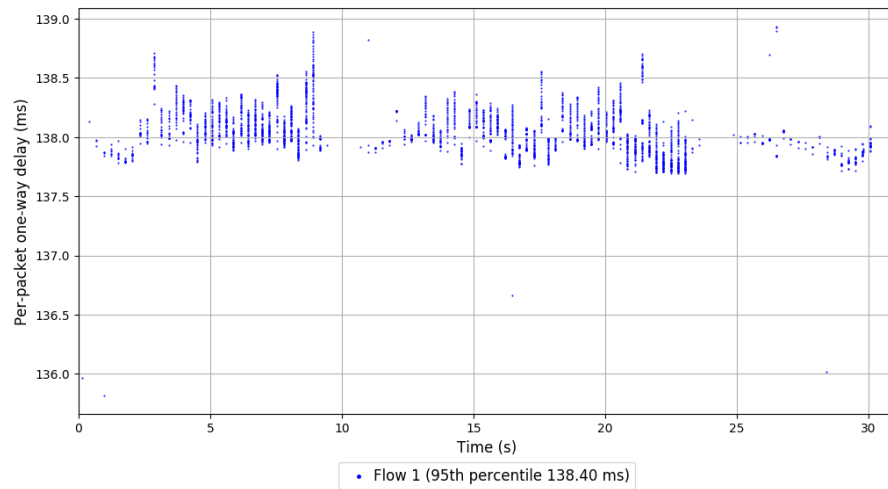
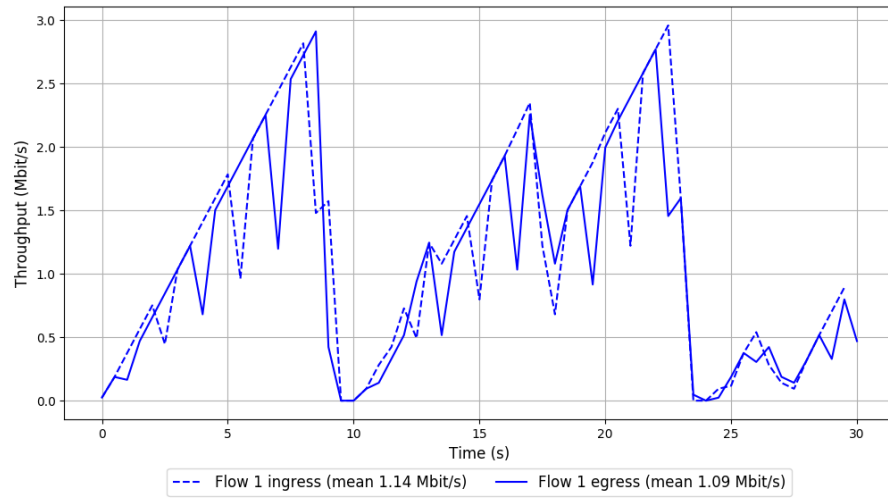
-- Flow 1:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 138.397 ms

Loss rate: 4.40%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-08-11 19:10:46

End at: 2017-08-11 19:11:16

Below is generated by plot.py at 2017-08-11 20:11:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 137.399 ms

Loss rate: 2.44%

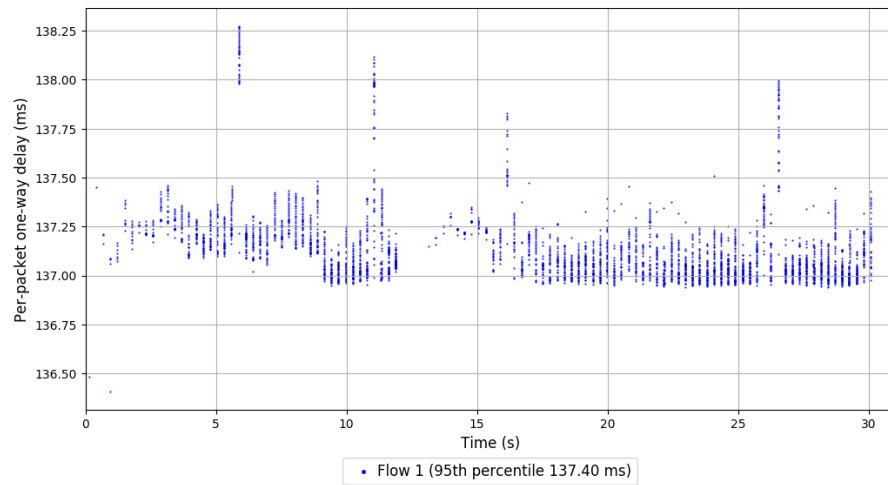
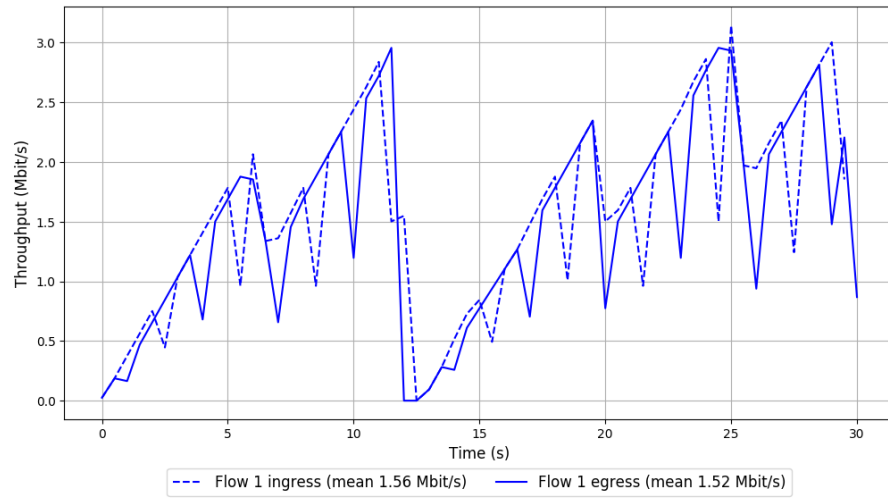
-- Flow 1:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 137.399 ms

Loss rate: 2.44%

Run 10: Report of LEDBAT — Data Link

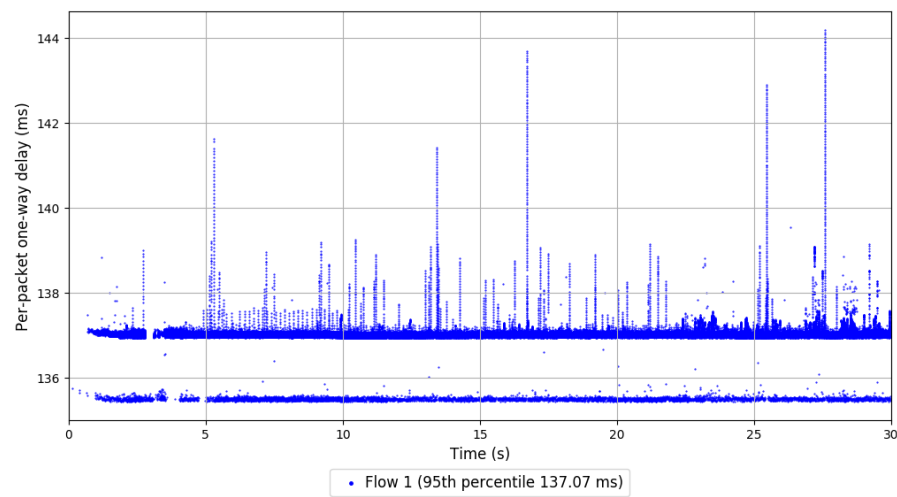
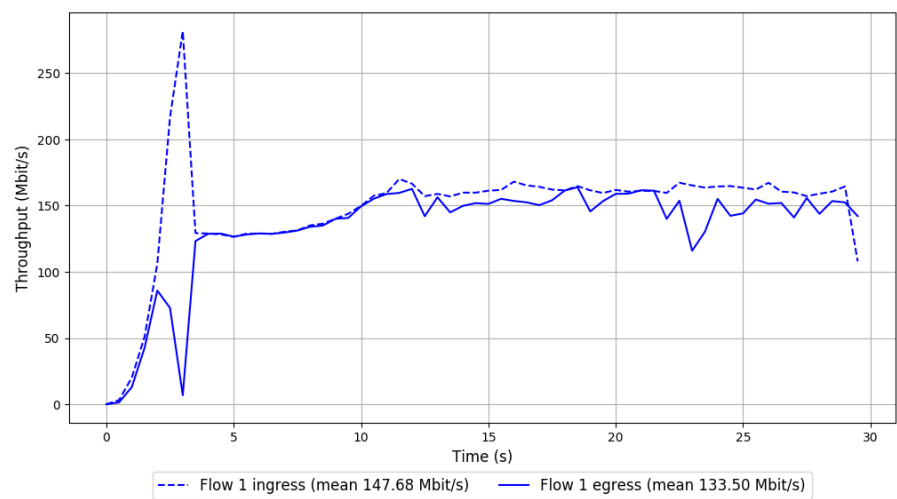


```
Run 1: Statistics of PCC

Start at: 2017-08-11 17:22:42
End at: 2017-08-11 17:23:12

# Below is generated by plot.py at 2017-08-11 20:11:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.50 Mbit/s
95th percentile per-packet one-way delay: 137.071 ms
Loss rate: 9.60%
-- Flow 1:
Average throughput: 133.50 Mbit/s
95th percentile per-packet one-way delay: 137.071 ms
Loss rate: 9.60%
```


Run 1: Report of PCC — Data Link

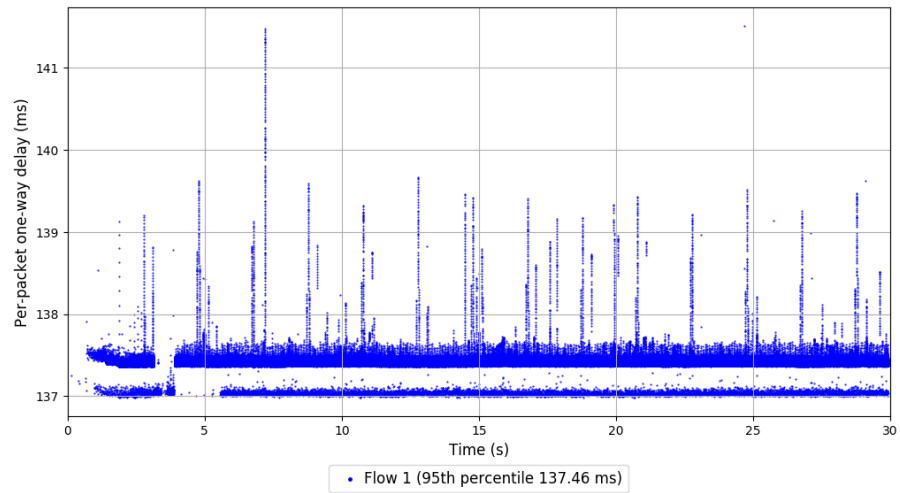
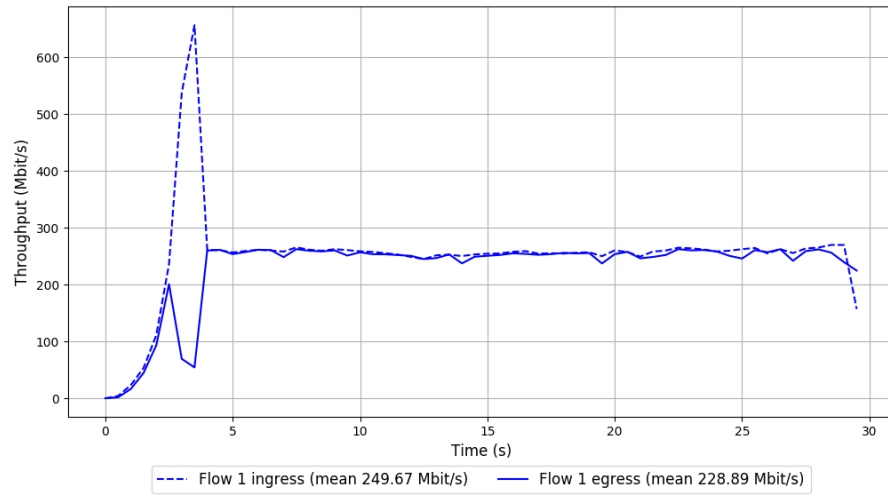


```
Run 2: Statistics of PCC

Start at: 2017-08-11 17:34:17
End at: 2017-08-11 17:34:47

# Below is generated by plot.py at 2017-08-11 20:12:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.89 Mbit/s
95th percentile per-packet one-way delay: 137.463 ms
Loss rate: 8.64%
-- Flow 1:
Average throughput: 228.89 Mbit/s
95th percentile per-packet one-way delay: 137.463 ms
Loss rate: 8.64%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-11 17:45:20

End at: 2017-08-11 17:45:50

Below is generated by plot.py at 2017-08-11 20:13:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.57 Mbit/s

95th percentile per-packet one-way delay: 142.107 ms

Loss rate: 0.70%

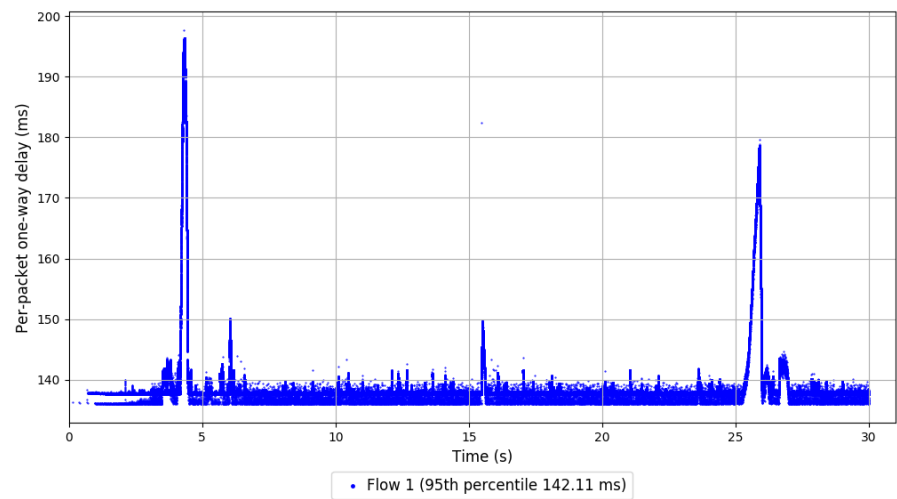
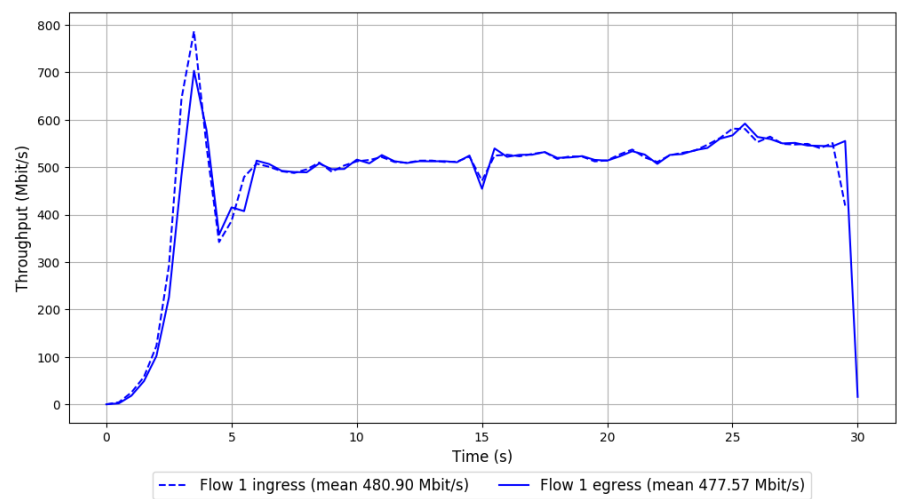
-- Flow 1:

Average throughput: 477.57 Mbit/s

95th percentile per-packet one-way delay: 142.107 ms

Loss rate: 0.70%

Run 3: Report of PCC — Data Link

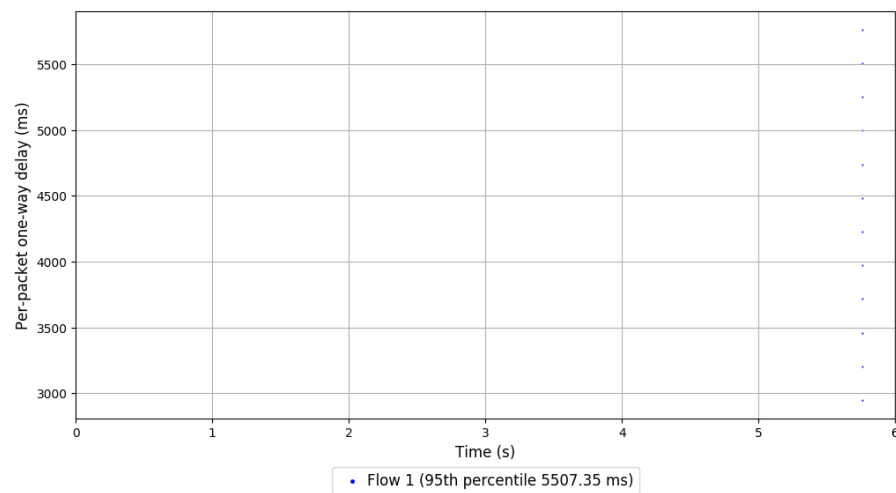
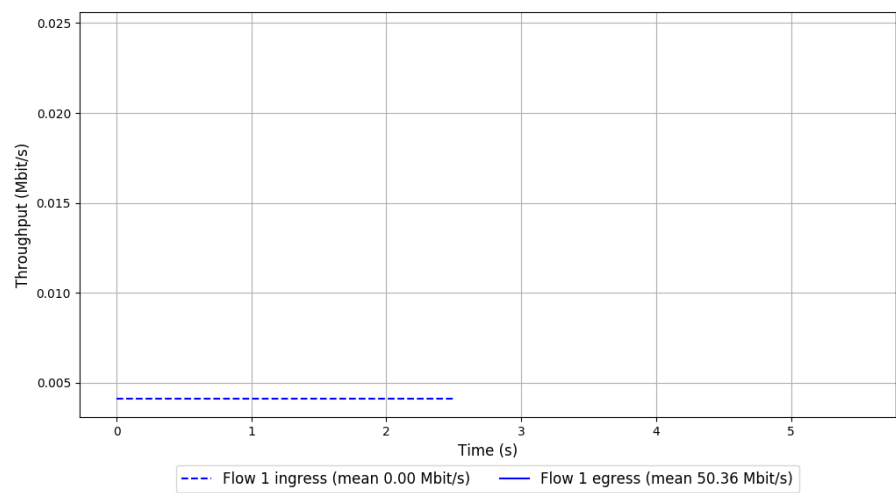


Run 4: Statistics of PCC

Start at: 2017-08-11 17:57:01

End at: 2017-08-11 17:57:31

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-08-11 18:08:01

End at: 2017-08-11 18:08:31

Below is generated by plot.py at 2017-08-11 20:13:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.10 Mbit/s

95th percentile per-packet one-way delay: 146.003 ms

Loss rate: 0.90%

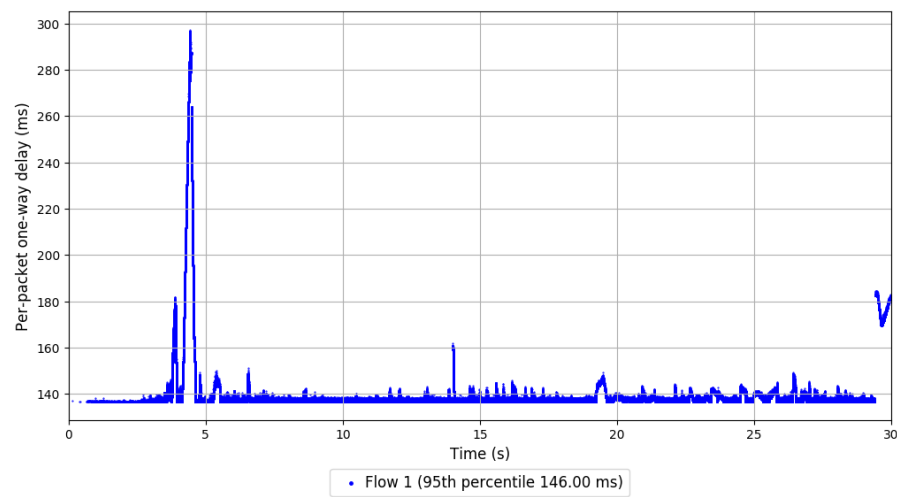
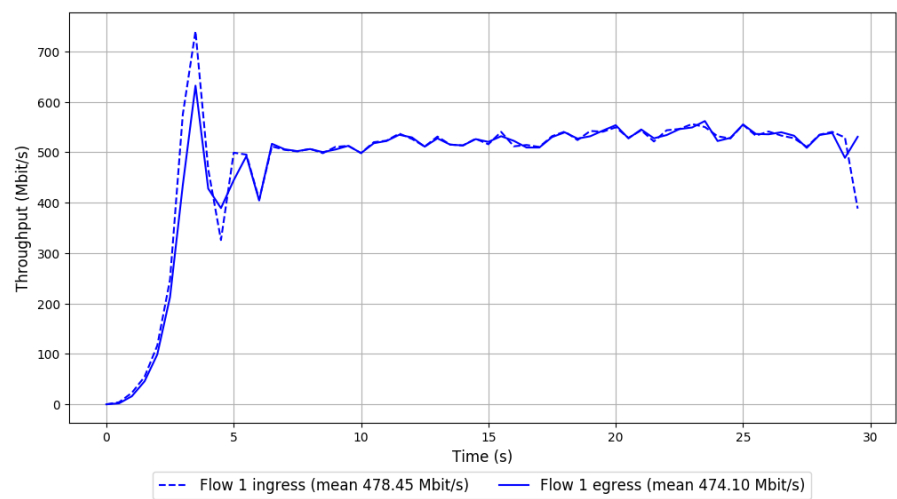
-- Flow 1:

Average throughput: 474.10 Mbit/s

95th percentile per-packet one-way delay: 146.003 ms

Loss rate: 0.90%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-11 18:19:40

End at: 2017-08-11 18:20:10

Below is generated by plot.py at 2017-08-11 20:14:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.40 Mbit/s

95th percentile per-packet one-way delay: 136.787 ms

Loss rate: 7.47%

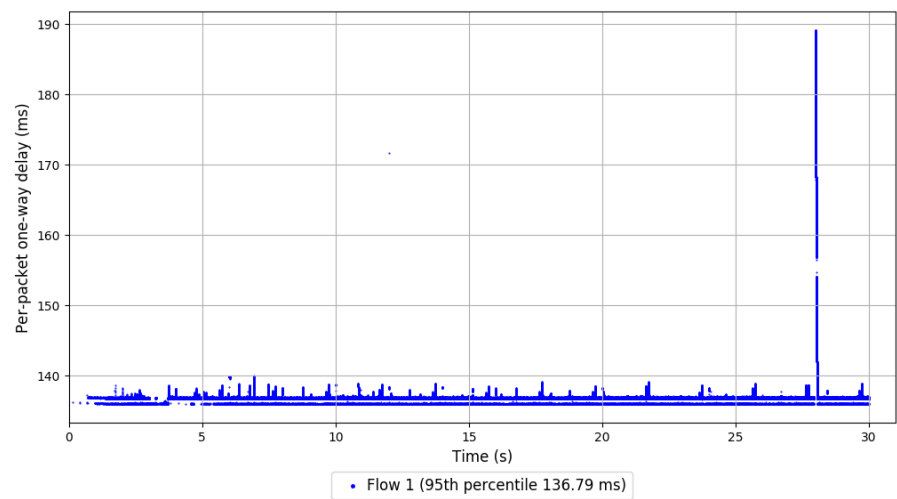
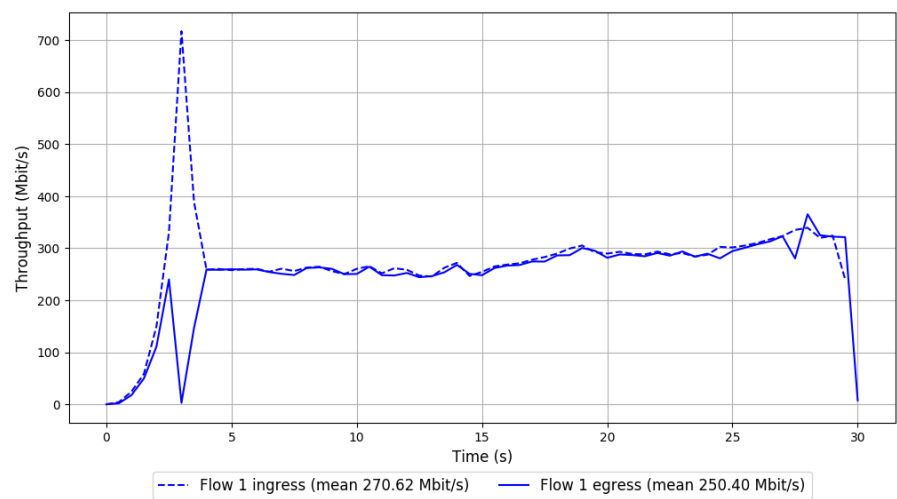
-- Flow 1:

Average throughput: 250.40 Mbit/s

95th percentile per-packet one-way delay: 136.787 ms

Loss rate: 7.47%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-08-11 18:31:38

End at: 2017-08-11 18:32:08

Below is generated by plot.py at 2017-08-11 20:14:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.53 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 7.03%

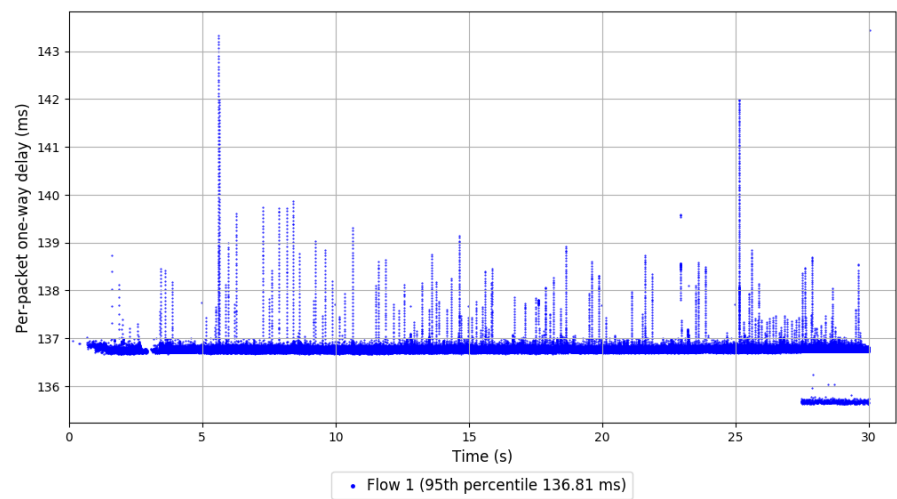
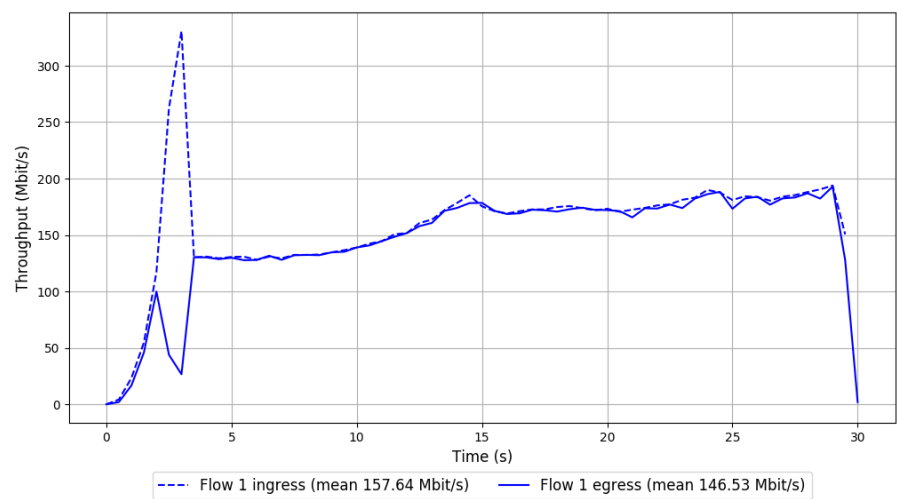
-- Flow 1:

Average throughput: 146.53 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 7.03%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-11 18:42:50

End at: 2017-08-11 18:43:20

Below is generated by plot.py at 2017-08-11 20:14:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.15 Mbit/s

95th percentile per-packet one-way delay: 137.776 ms

Loss rate: 10.46%

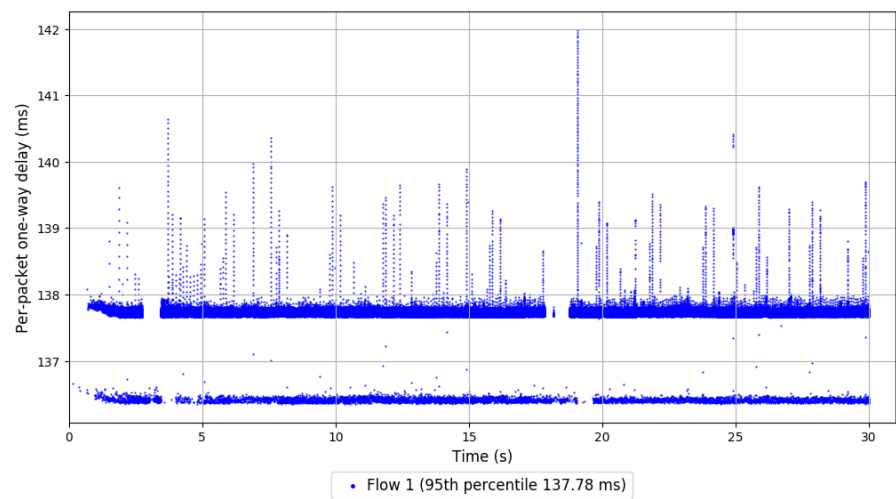
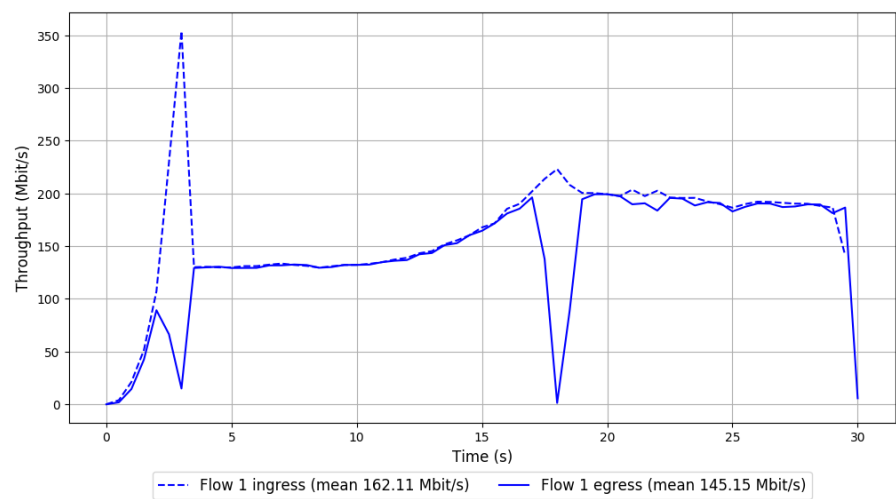
-- Flow 1:

Average throughput: 145.15 Mbit/s

95th percentile per-packet one-way delay: 137.776 ms

Loss rate: 10.46%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-08-11 18:53:49

End at: 2017-08-11 18:54:19

Below is generated by plot.py at 2017-08-11 20:14:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.25 Mbit/s

95th percentile per-packet one-way delay: 137.804 ms

Loss rate: 8.66%

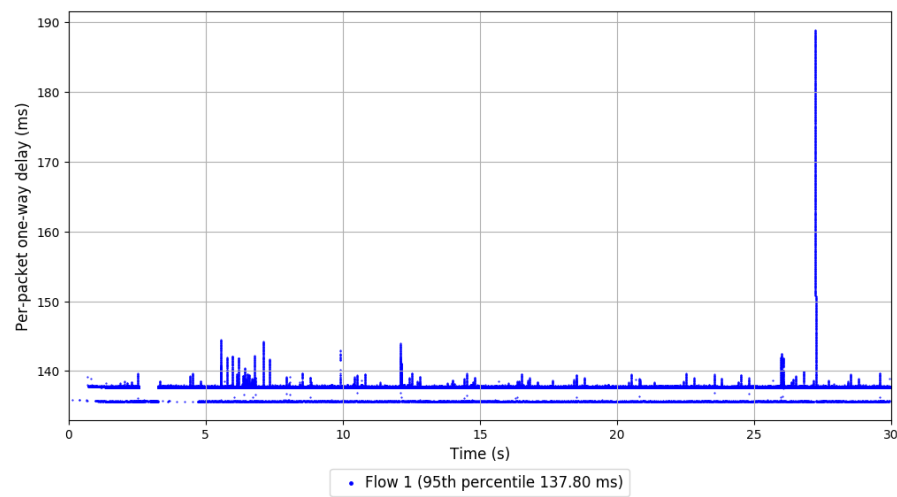
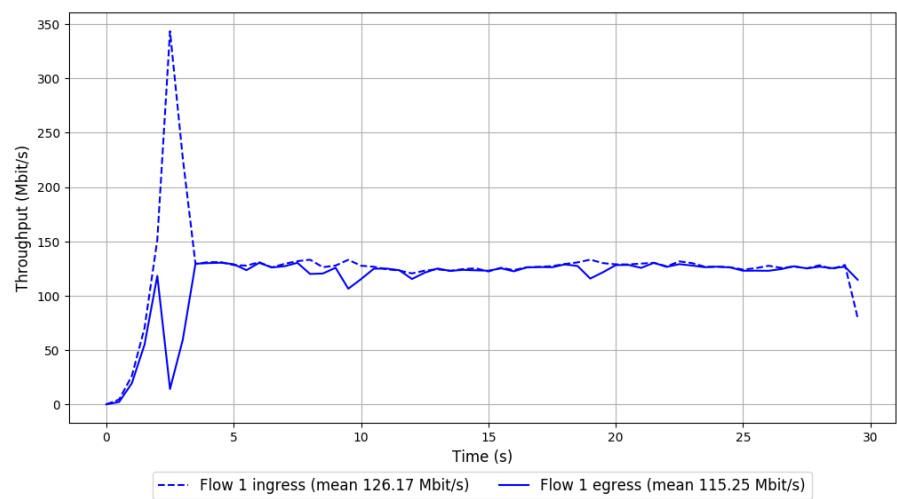
-- Flow 1:

Average throughput: 115.25 Mbit/s

95th percentile per-packet one-way delay: 137.804 ms

Loss rate: 8.66%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-08-11 19:04:43

End at: 2017-08-11 19:05:13

Below is generated by plot.py at 2017-08-11 20:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 481.48 Mbit/s

95th percentile per-packet one-way delay: 220.749 ms

Loss rate: 2.35%

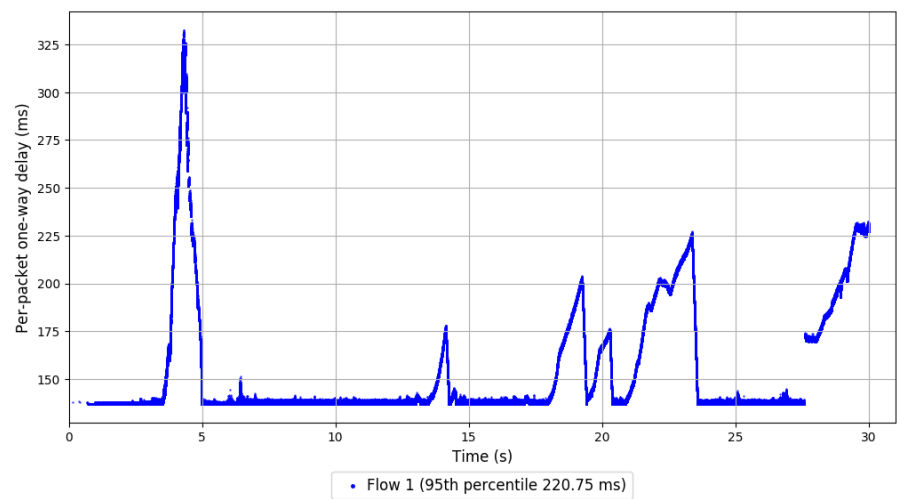
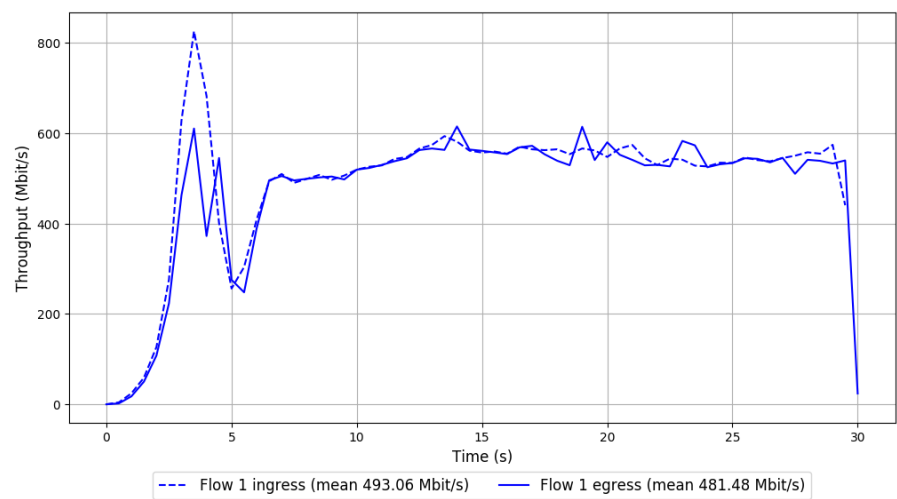
-- Flow 1:

Average throughput: 481.48 Mbit/s

95th percentile per-packet one-way delay: 220.749 ms

Loss rate: 2.35%

Run 10: Report of PCC — Data Link

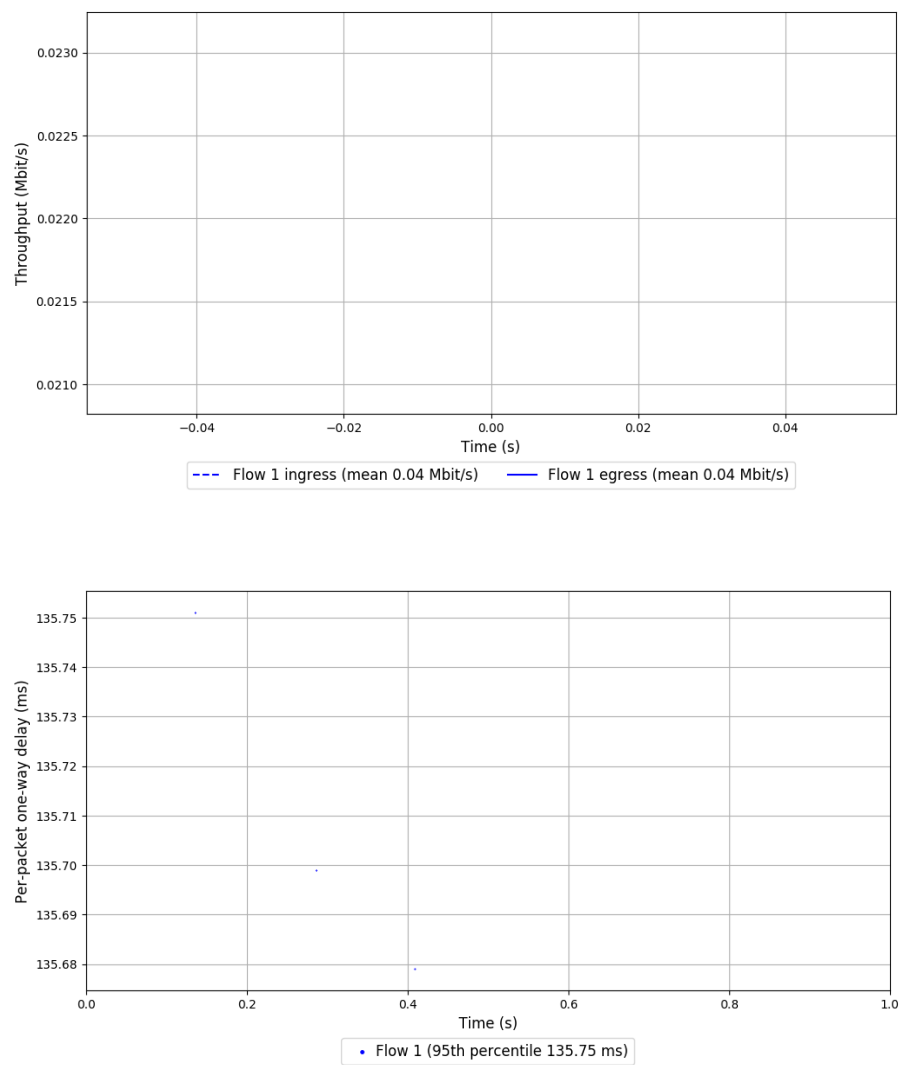


Run 1: Statistics of QUIC Cubic

Start at: 2017-08-11 17:30:13

End at: 2017-08-11 17:30:43

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-08-11 17:41:44

End at: 2017-08-11 17:42:14

Below is generated by plot.py at 2017-08-11 20:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 135.258 ms

Loss rate: 0.02%

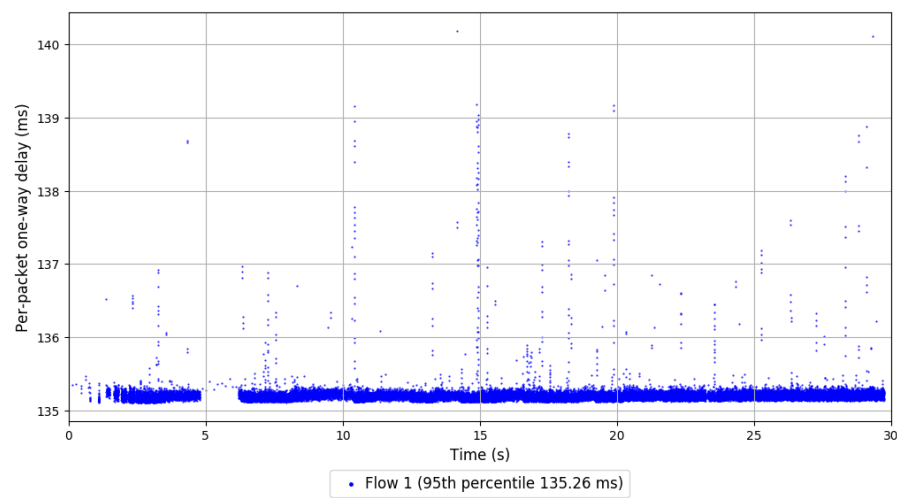
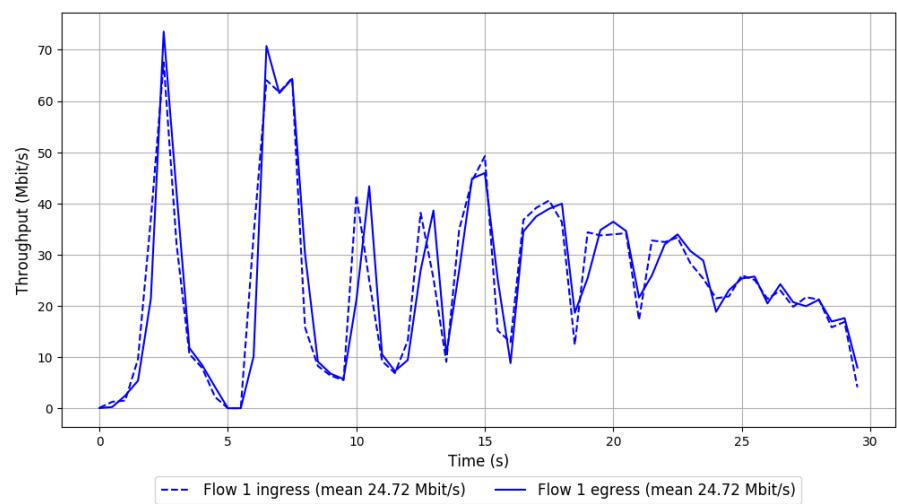
-- Flow 1:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 135.258 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-08-11 17:53:04

End at: 2017-08-11 17:53:34

Below is generated by plot.py at 2017-08-11 20:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.29 Mbit/s

95th percentile per-packet one-way delay: 135.552 ms

Loss rate: 0.01%

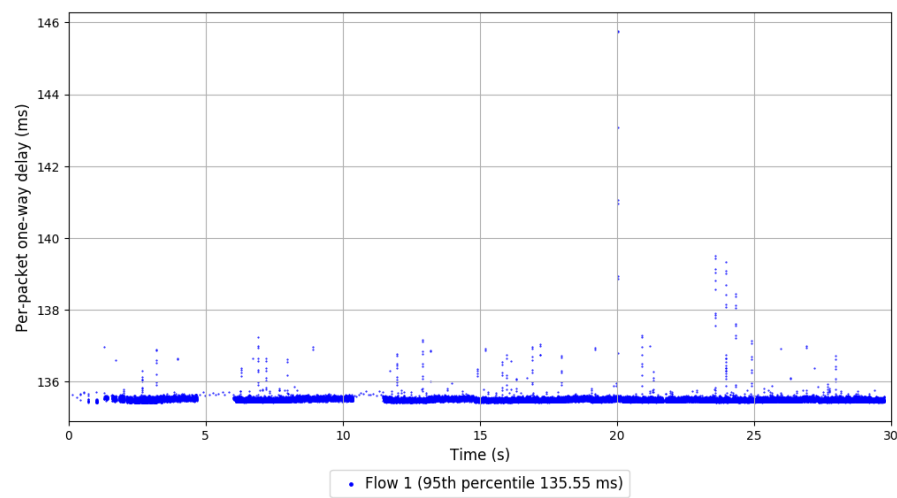
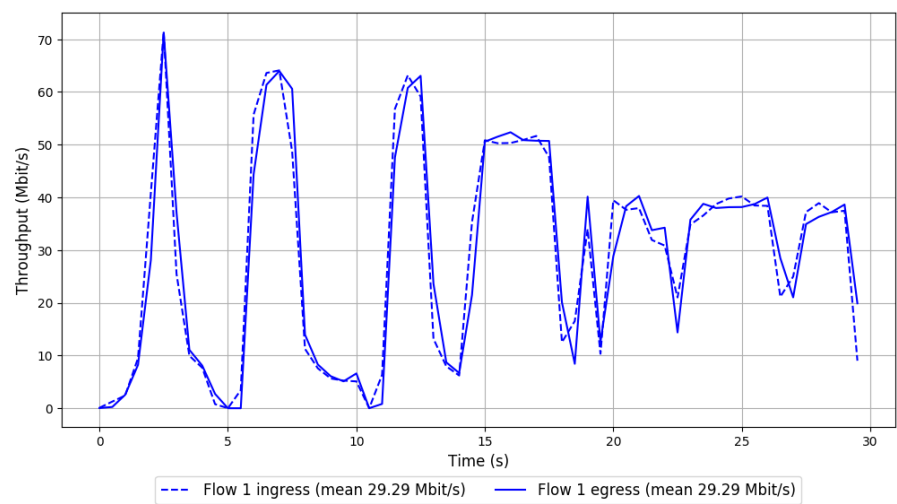
-- Flow 1:

Average throughput: 29.29 Mbit/s

95th percentile per-packet one-way delay: 135.552 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-08-11 18:04:09

End at: 2017-08-11 18:04:39

Below is generated by plot.py at 2017-08-11 20:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 136.074 ms

Loss rate: 0.00%

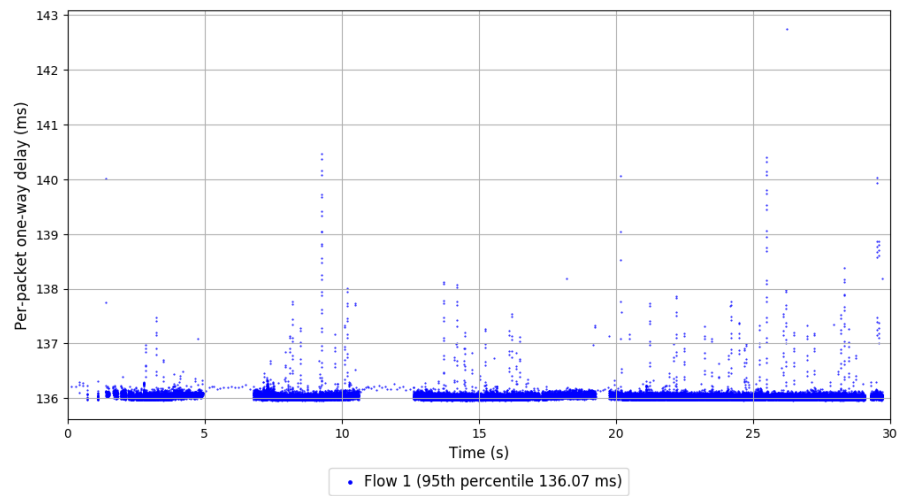
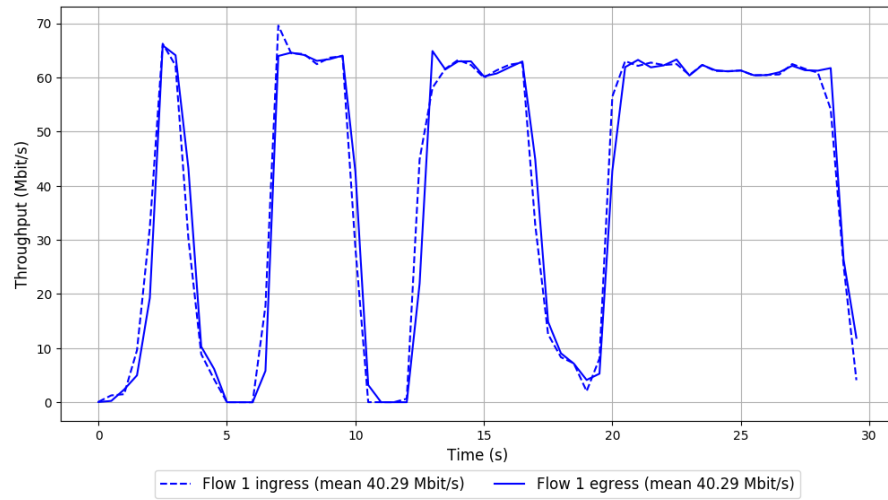
-- Flow 1:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 136.074 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-11 18:15:40

End at: 2017-08-11 18:16:10

Below is generated by plot.py at 2017-08-11 20:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 137.094 ms

Loss rate: 0.00%

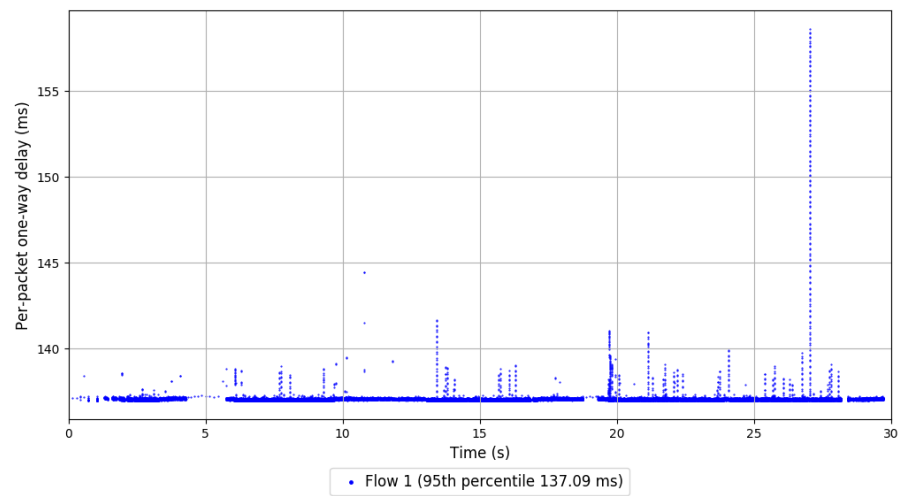
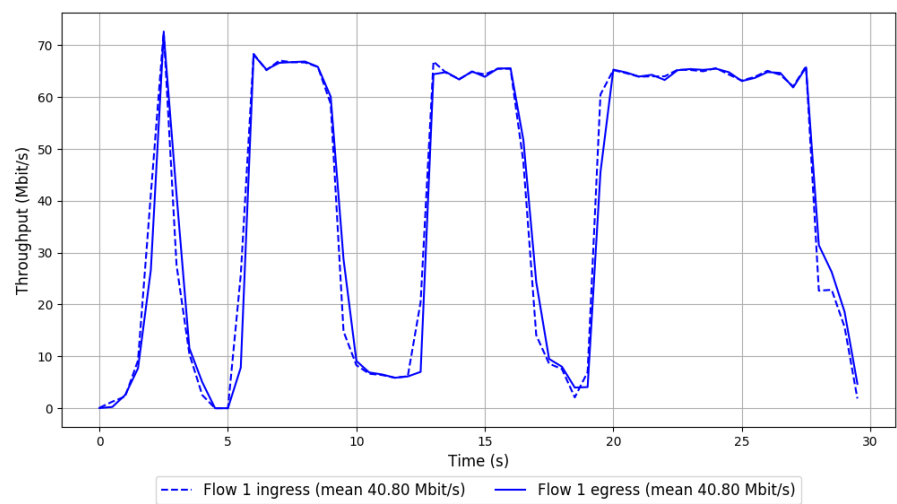
-- Flow 1:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 137.094 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-11 18:27:23

End at: 2017-08-11 18:27:53

Below is generated by plot.py at 2017-08-11 20:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 0.00%

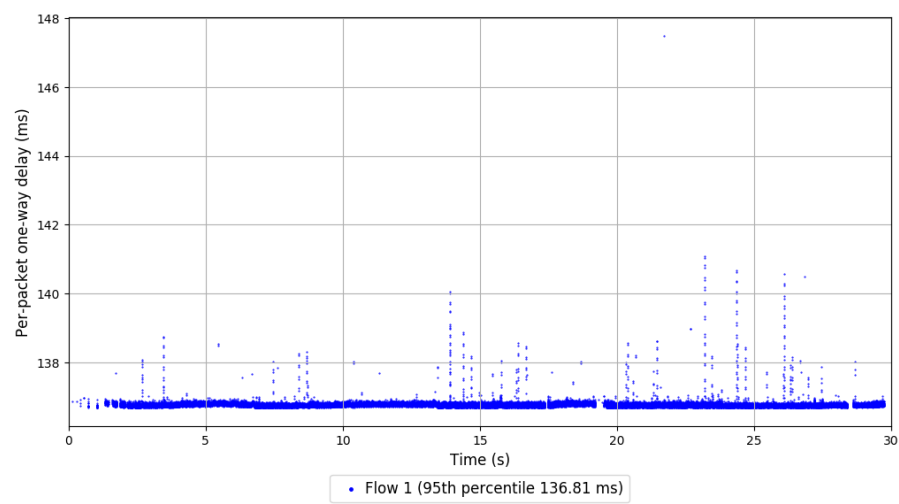
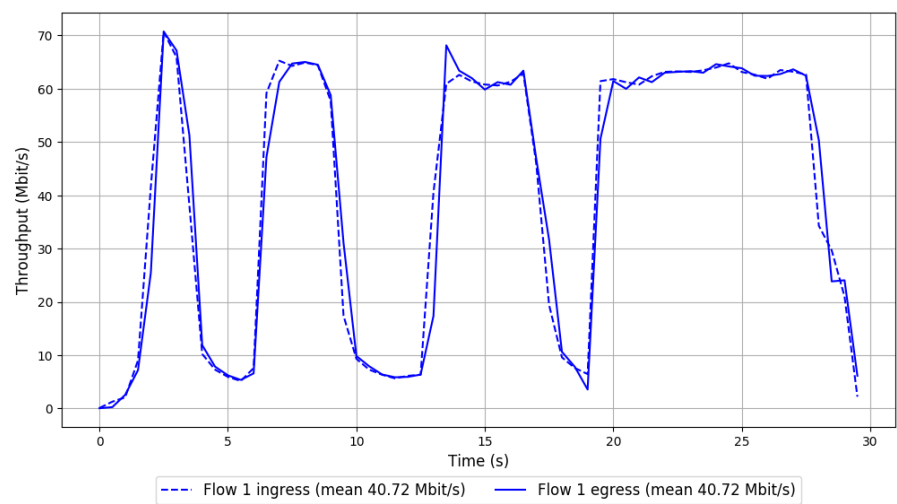
-- Flow 1:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-08-11 18:38:54

End at: 2017-08-11 18:39:24

Below is generated by plot.py at 2017-08-11 20:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 135.783 ms

Loss rate: 0.00%

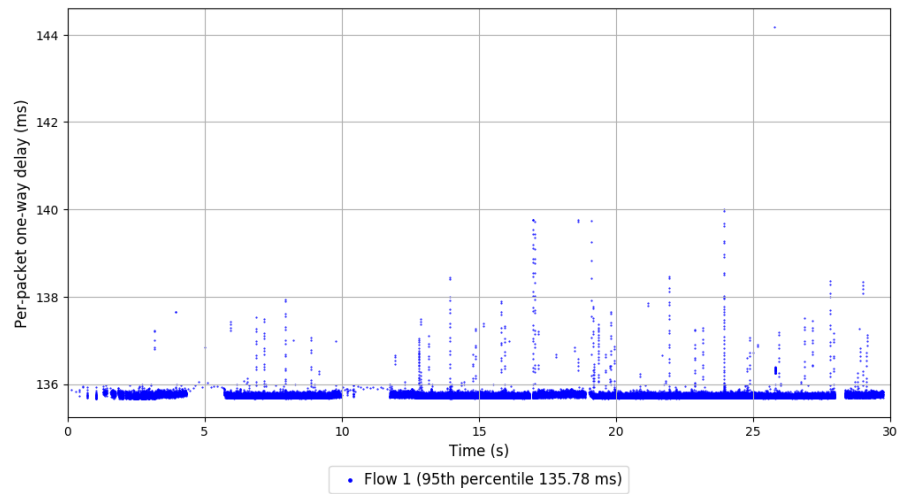
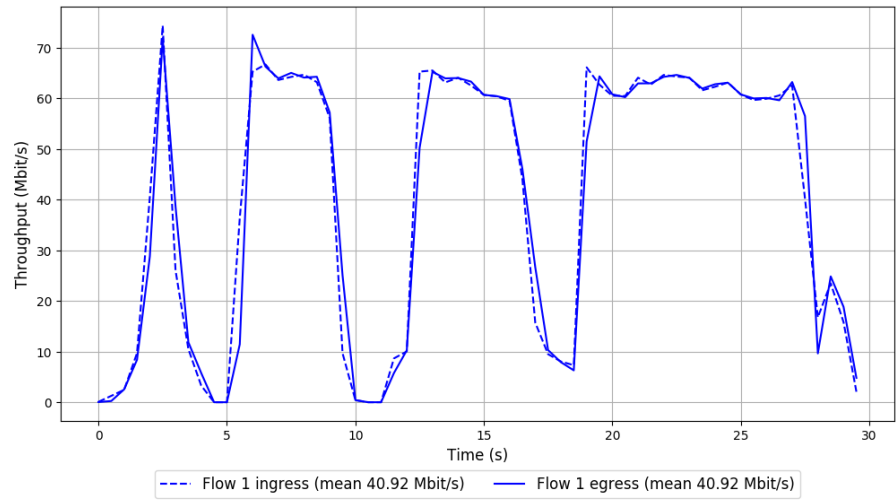
-- Flow 1:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 135.783 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

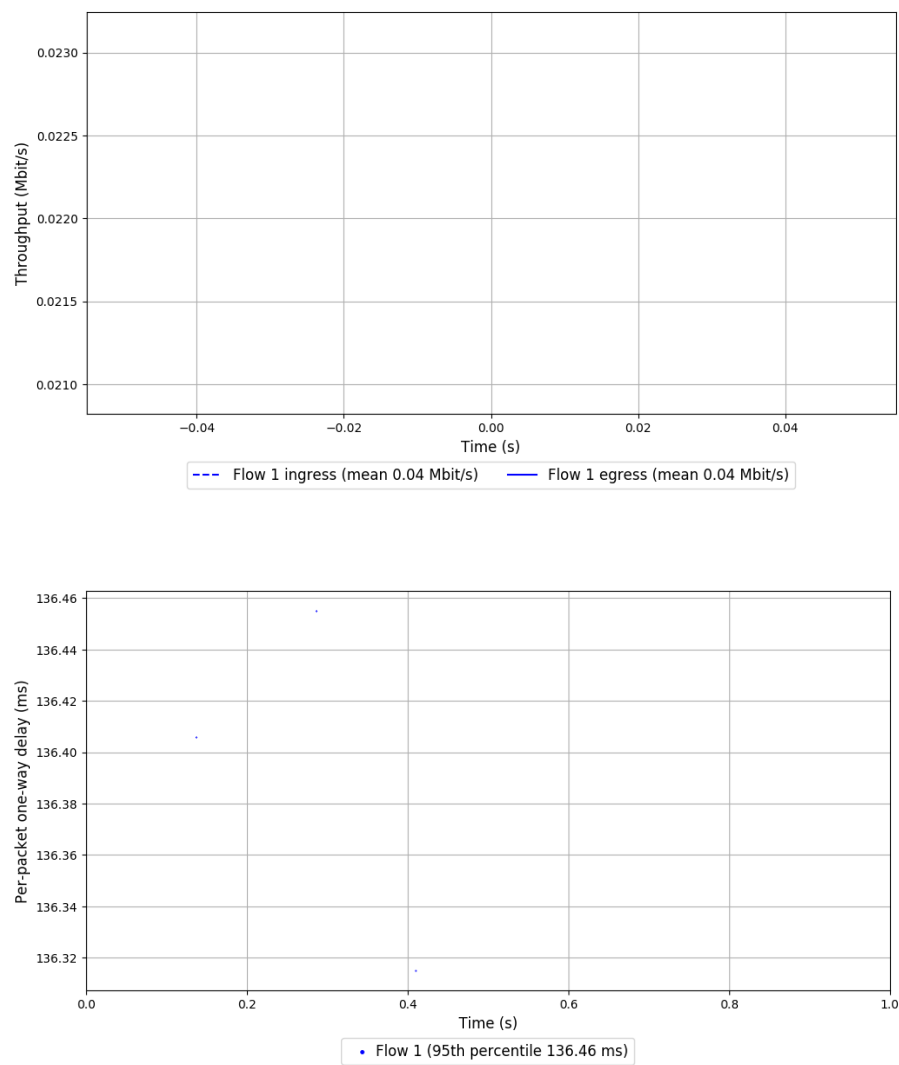


Run 8: Statistics of QUIC Cubic

Start at: 2017-08-11 18:50:16

End at: 2017-08-11 18:50:46

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-11 19:01:06

End at: 2017-08-11 19:01:36

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 137.626 ms

Loss rate: 0.00%

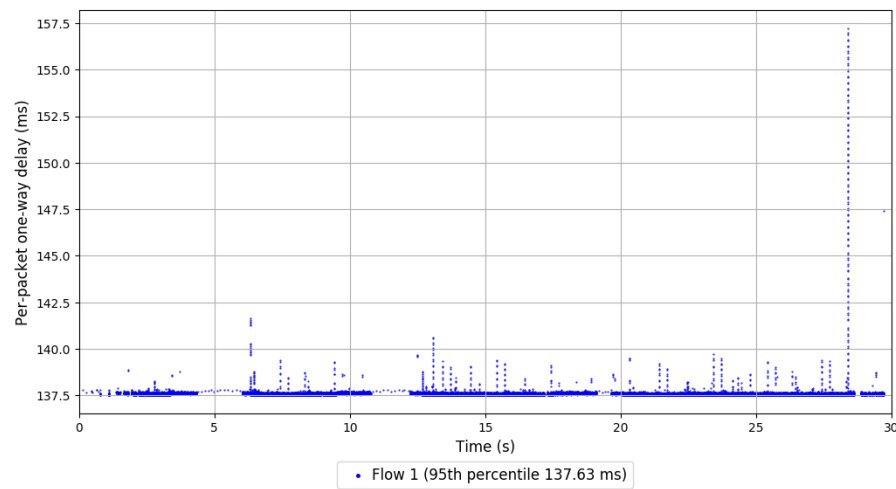
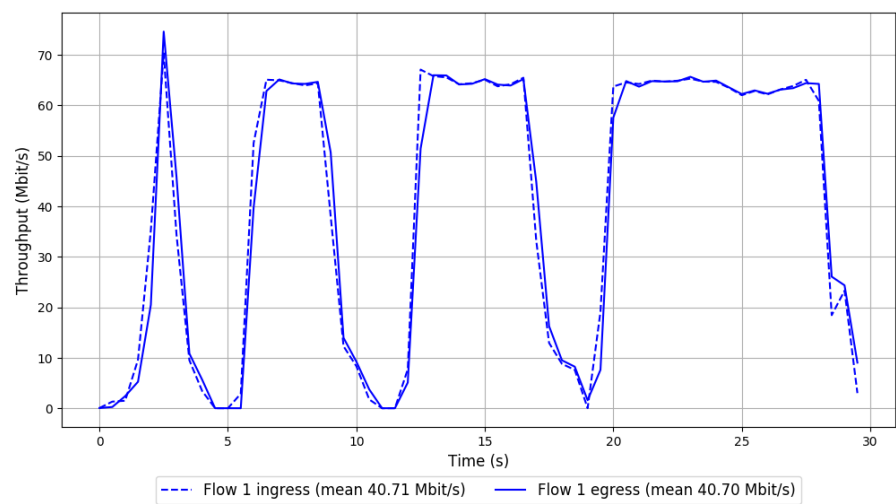
-- Flow 1:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 137.626 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

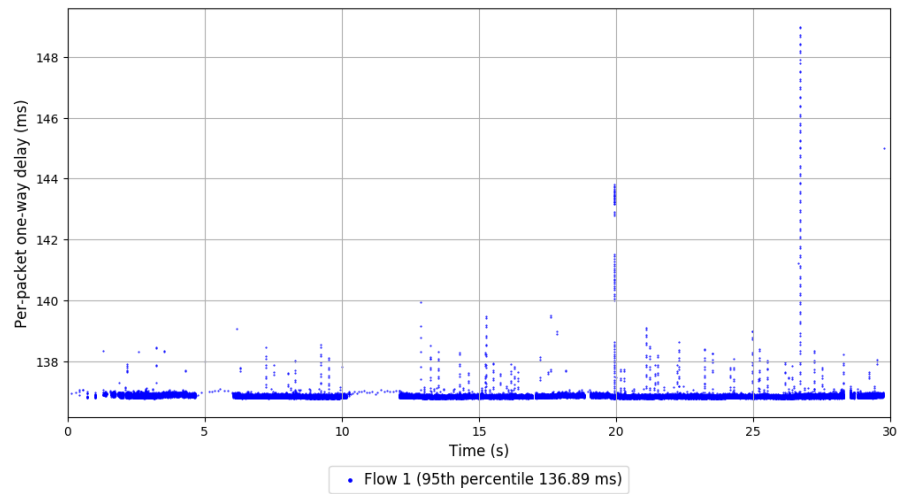
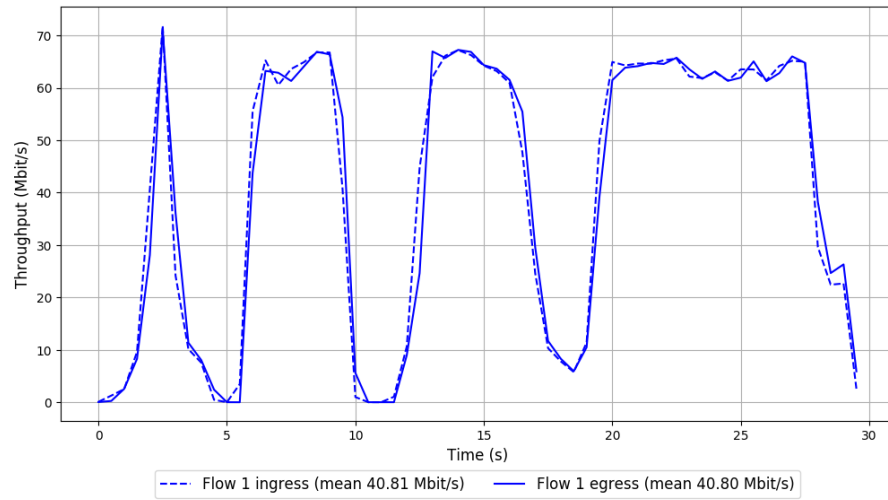


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-11 19:12:10
End at: 2017-08-11 19:12:40

# Below is generated by plot.py at 2017-08-11 20:16:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 136.893 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 136.893 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

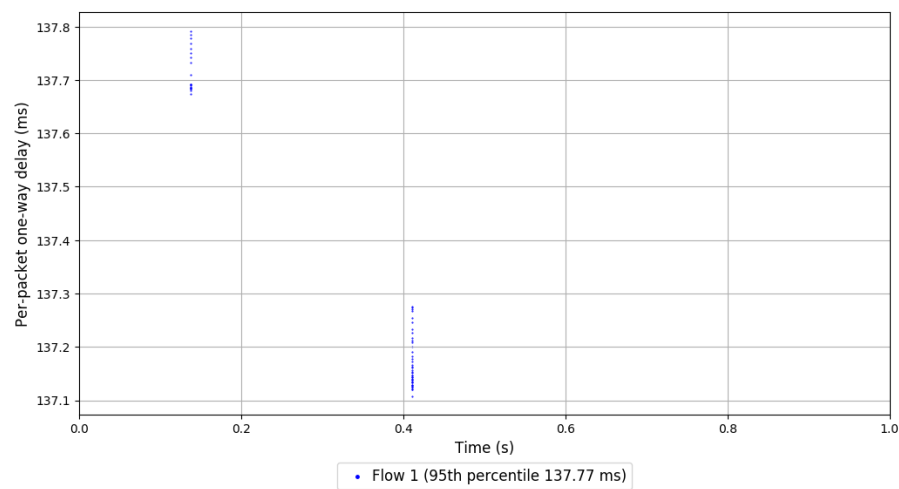
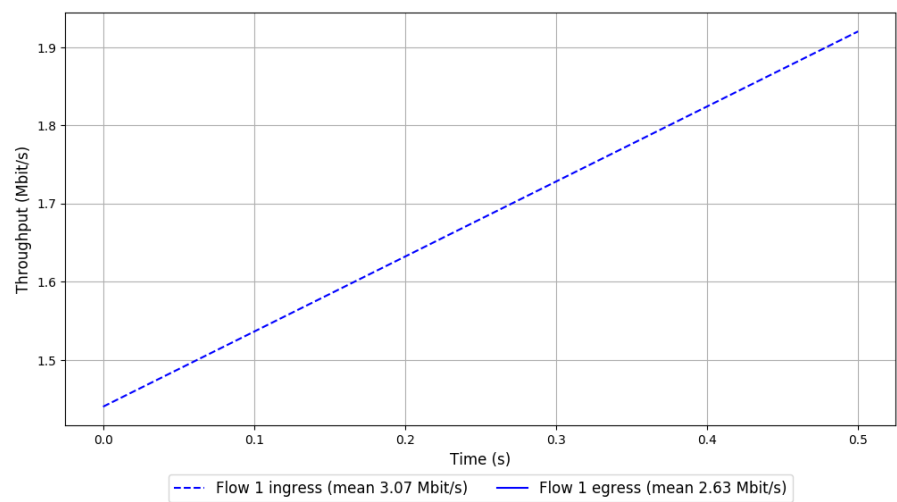


Run 1: Statistics of Saturator

Start at: 2017-08-11 17:27:09

End at: 2017-08-11 17:27:39

Run 1: Report of Saturator — Data Link

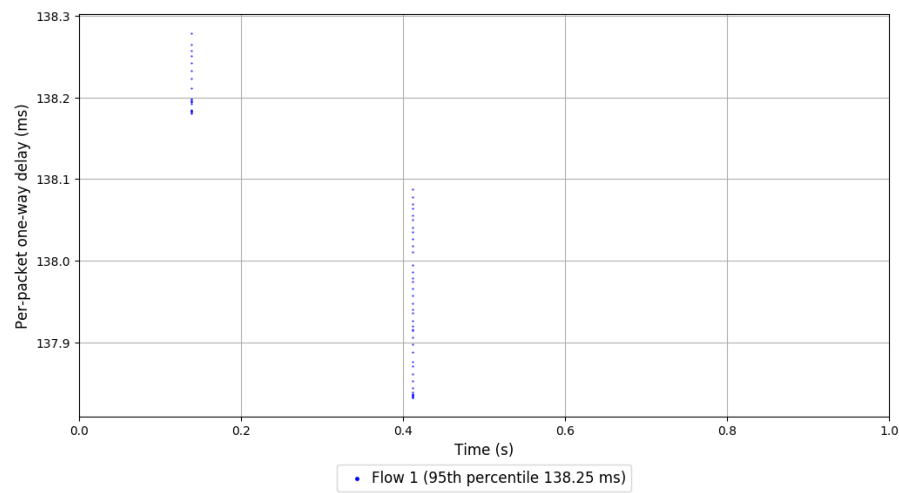
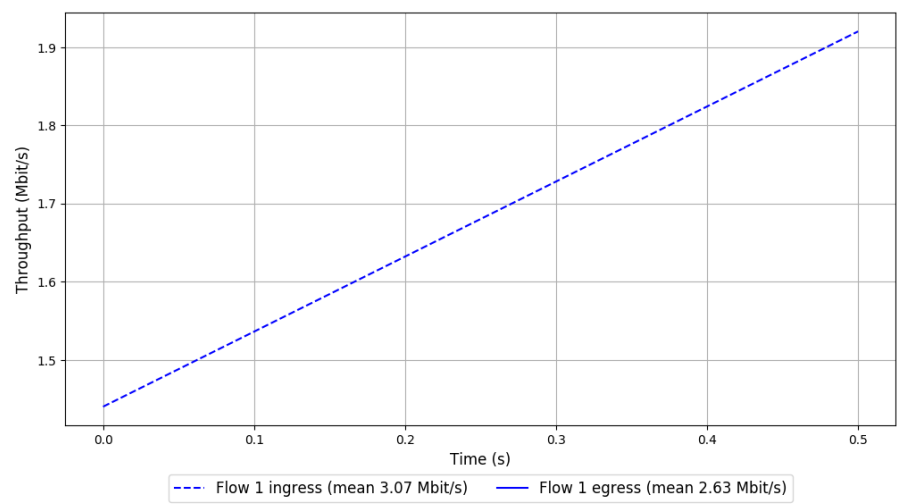


Run 2: Statistics of Saturator

Start at: 2017-08-11 17:38:44

End at: 2017-08-11 17:39:14

Run 2: Report of Saturator — Data Link

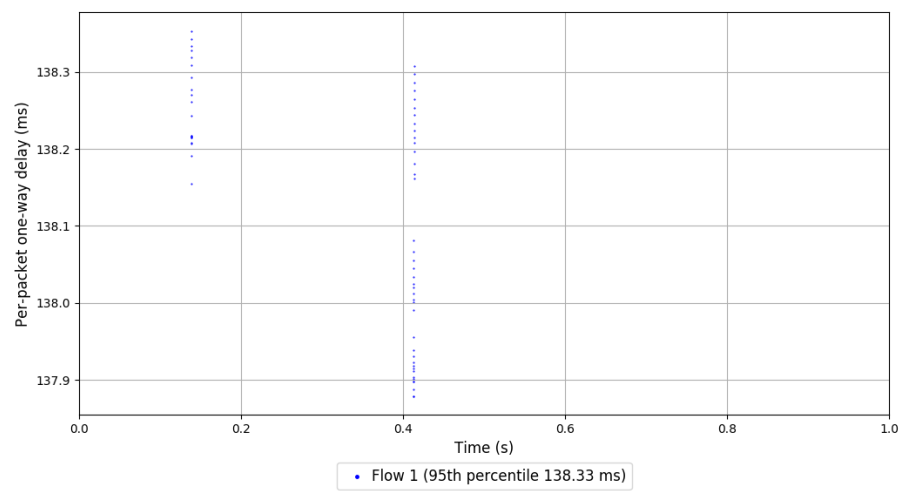
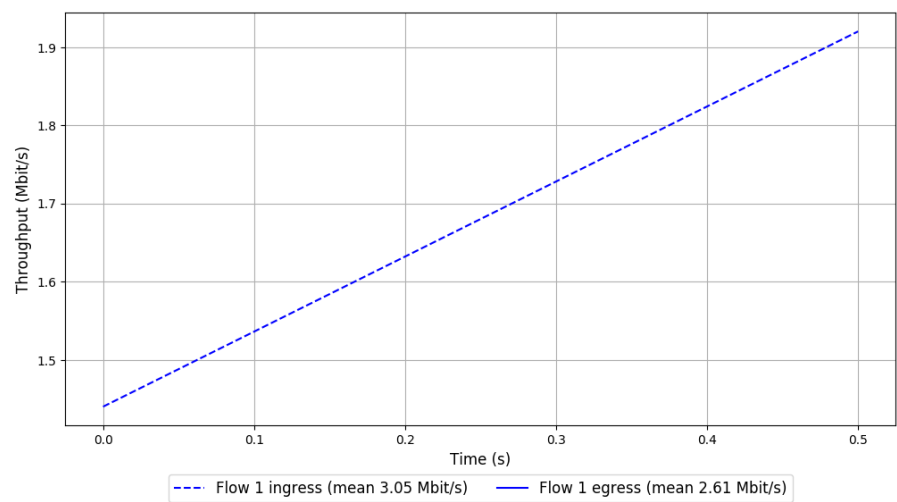


Run 3: Statistics of Saturator

Start at: 2017-08-11 17:50:01

End at: 2017-08-11 17:50:31

Run 3: Report of Saturator — Data Link

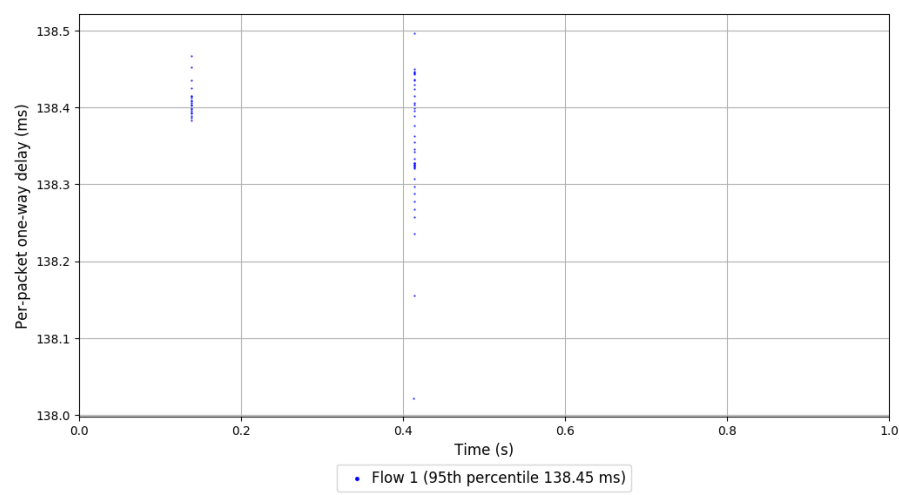
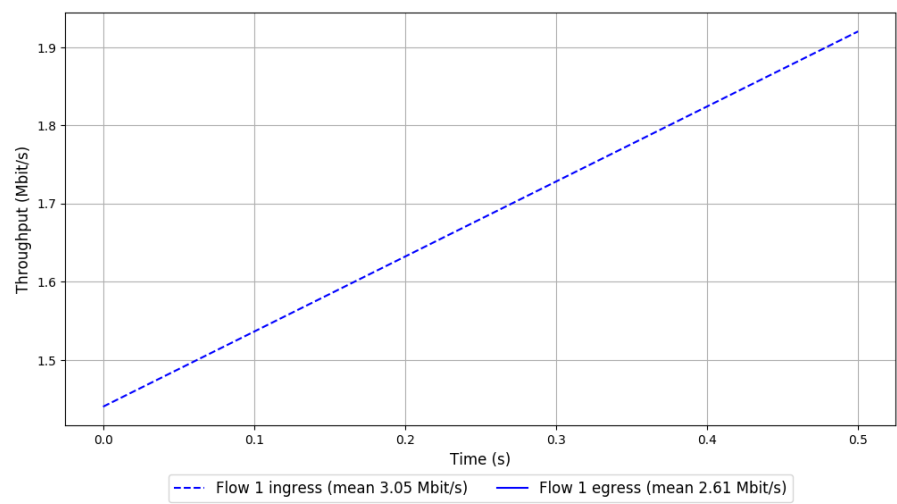


Run 4: Statistics of Saturator

Start at: 2017-08-11 18:01:20

End at: 2017-08-11 18:01:50

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: 2017-08-11 18:12:41

End at: 2017-08-11 18:13:11

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 138.235 ms

Loss rate: 0.80%

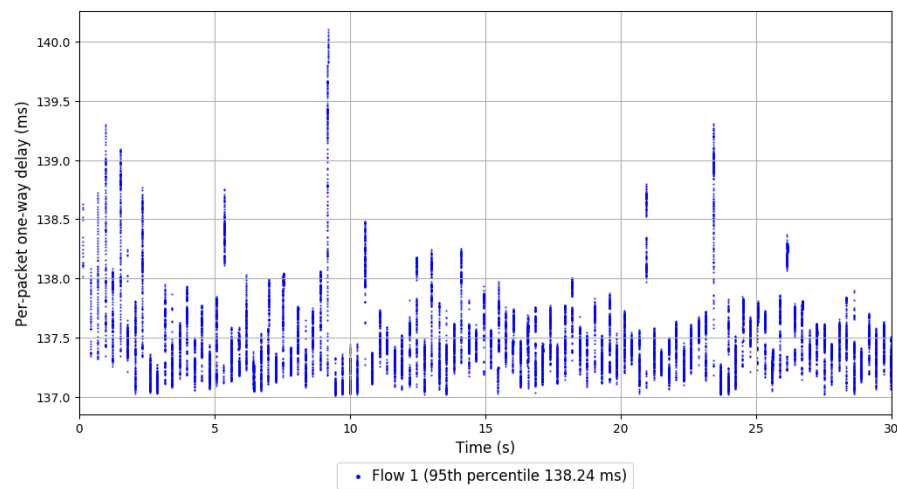
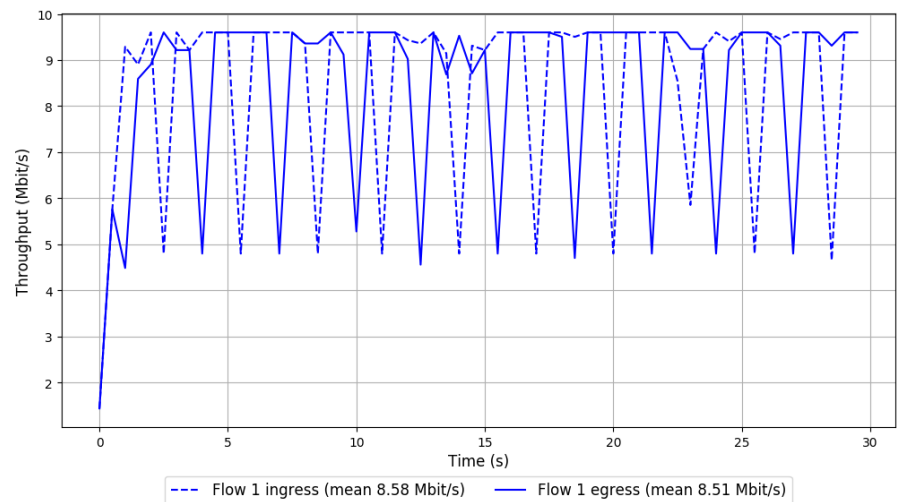
-- Flow 1:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 138.235 ms

Loss rate: 0.80%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: 2017-08-11 18:24:20

End at: 2017-08-11 18:24:50

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 137.680 ms

Loss rate: 0.58%

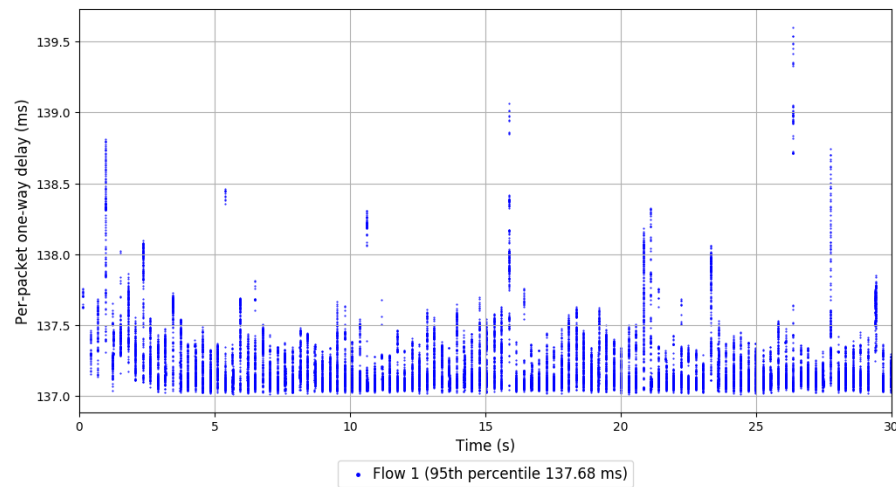
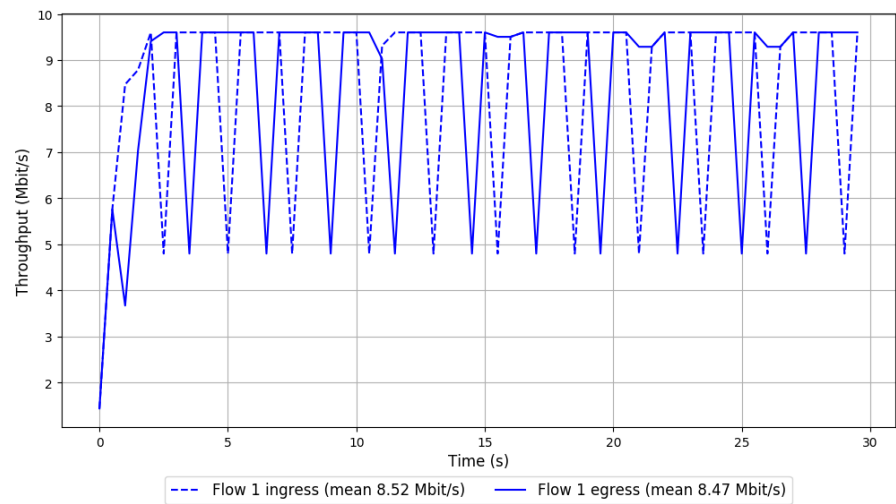
-- Flow 1:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 137.680 ms

Loss rate: 0.58%

Run 6: Report of Saturator — Data Link

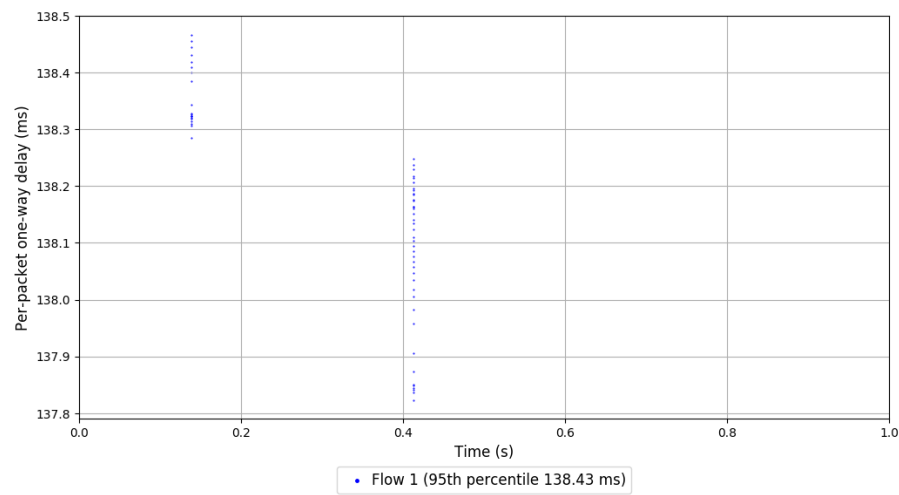
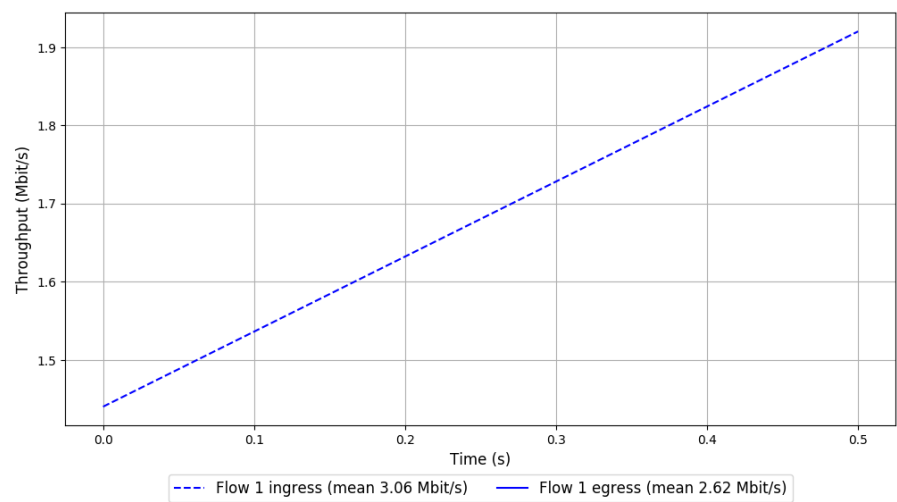


Run 7: Statistics of Saturator

Start at: 2017-08-11 18:36:06

End at: 2017-08-11 18:36:36

Run 7: Report of Saturator — Data Link

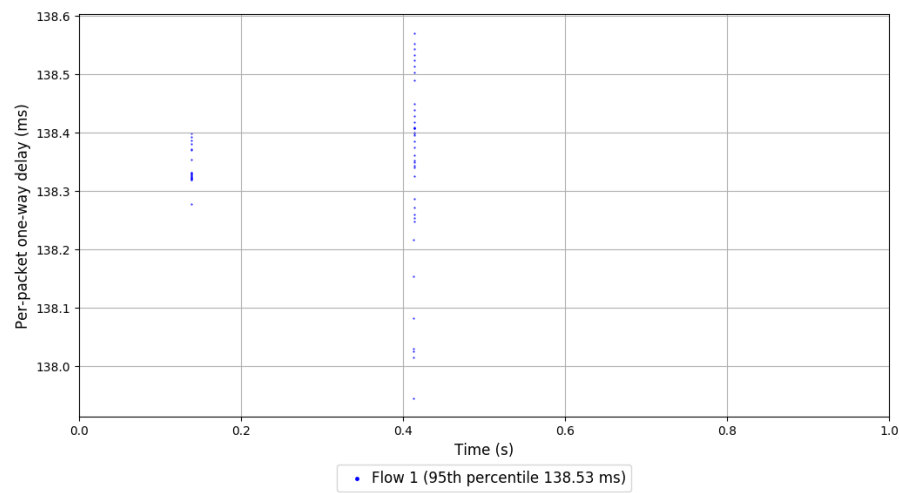
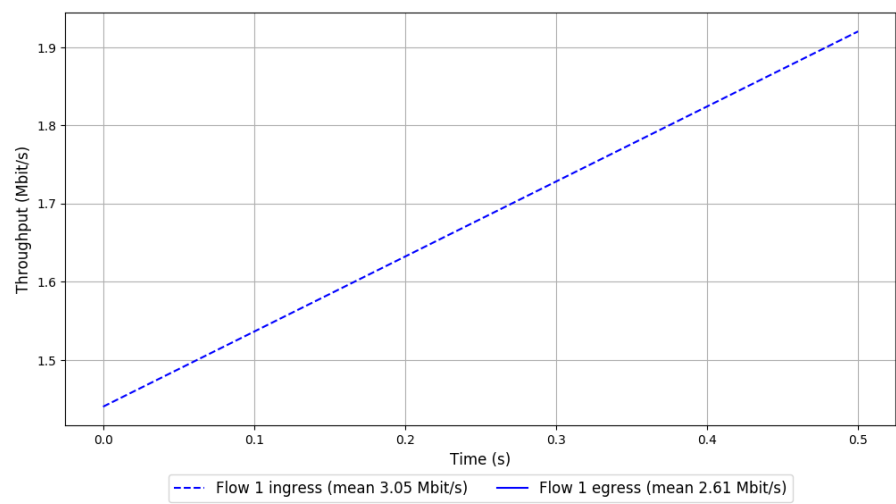


Run 8: Statistics of Saturator

Start at: 2017-08-11 18:47:13

End at: 2017-08-11 18:47:43

Run 8: Report of Saturator — Data Link

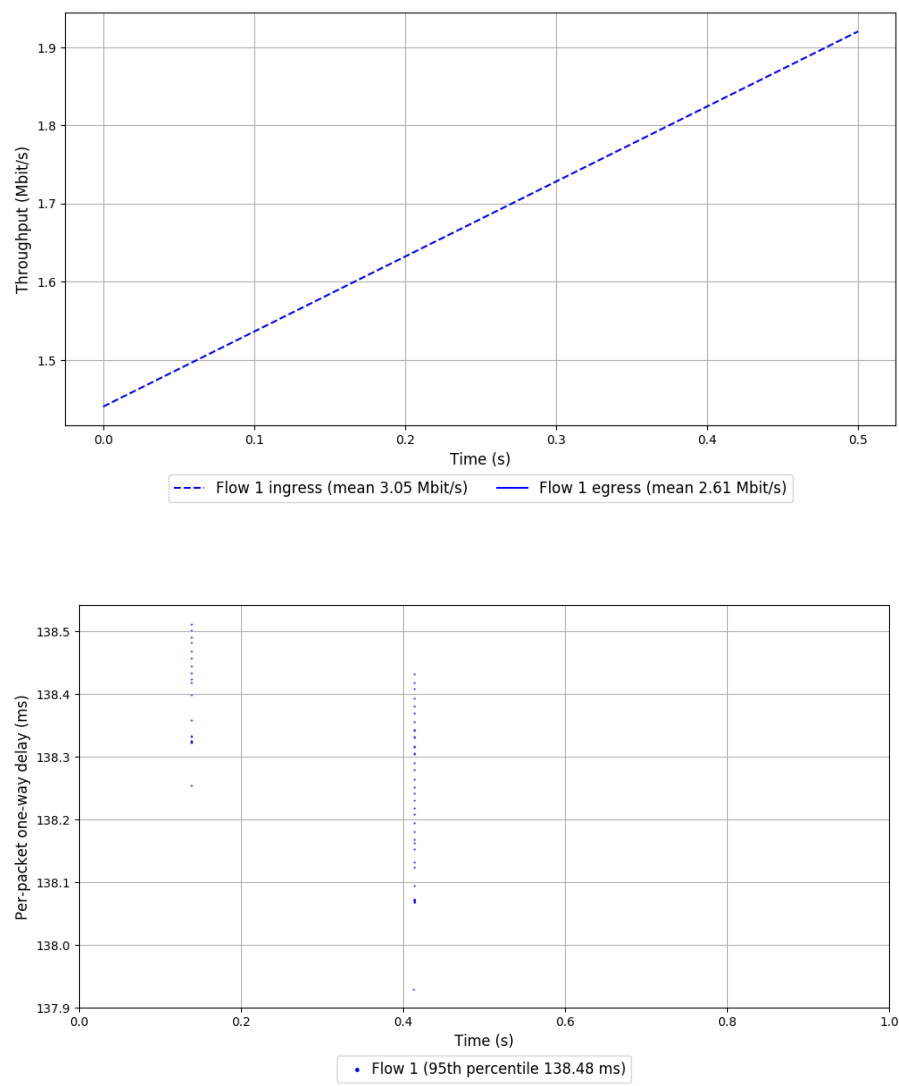


Run 9: Statistics of Saturator

Start at: 2017-08-11 18:58:17

End at: 2017-08-11 18:58:47

Run 9: Report of Saturator — Data Link

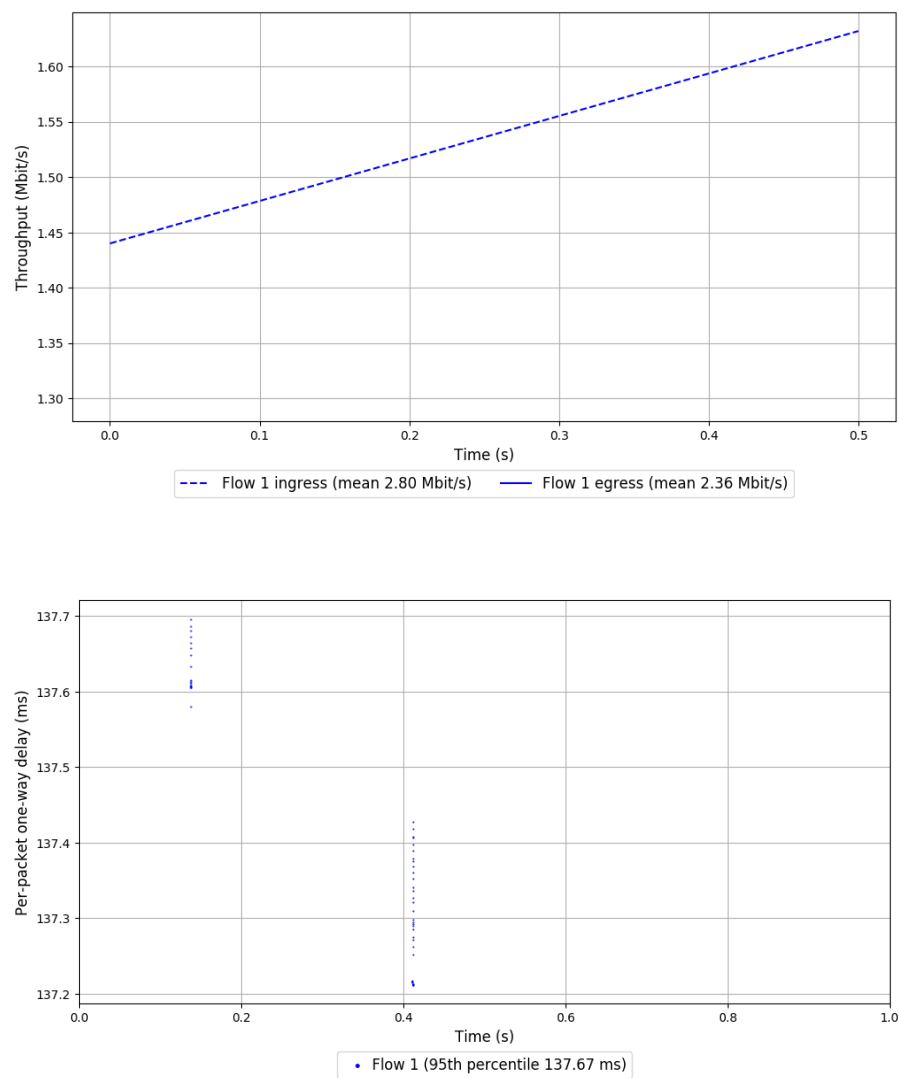


Run 10: Statistics of Saturator

Start at: 2017-08-11 19:09:22

End at: 2017-08-11 19:09:52

Run 10: Report of Saturator — Data Link

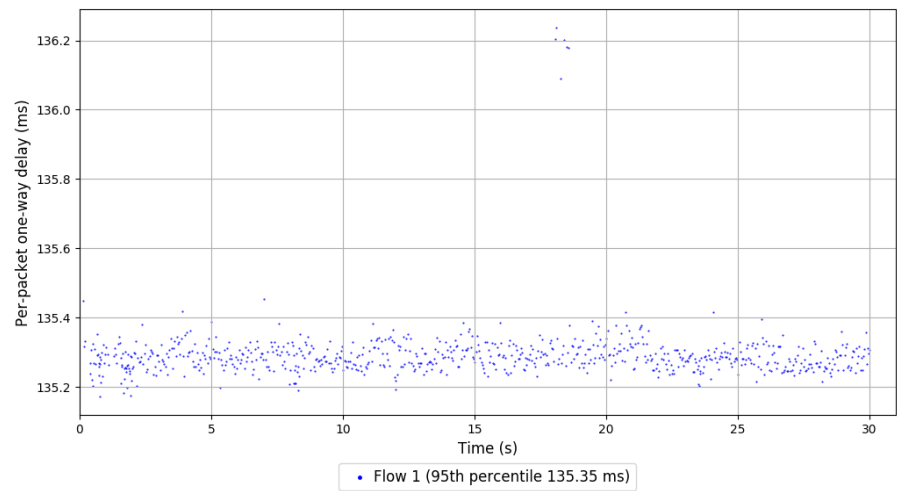
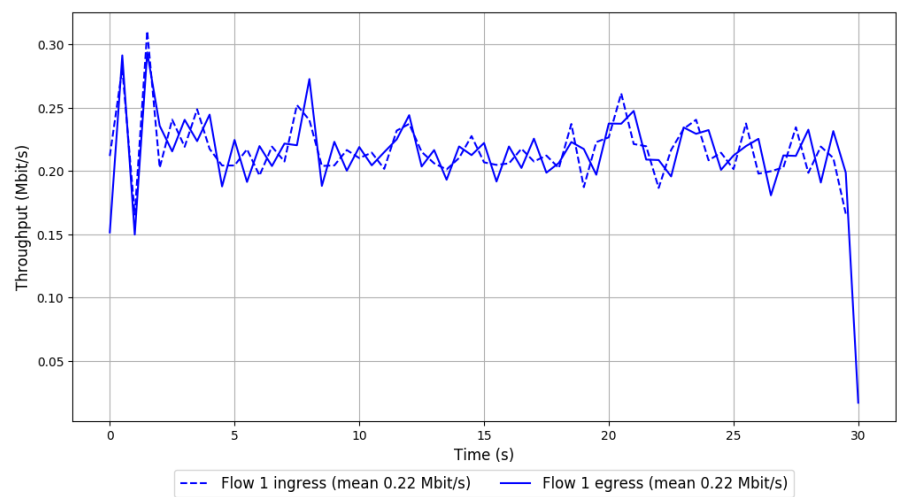


```
Run 1: Statistics of SCReAM

Start at: 2017-08-11 17:23:35
End at: 2017-08-11 17:24:05

# Below is generated by plot.py at 2017-08-11 20:16:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.353 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-08-11 17:35:10

End at: 2017-08-11 17:35:40

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.482 ms

Loss rate: 0.00%

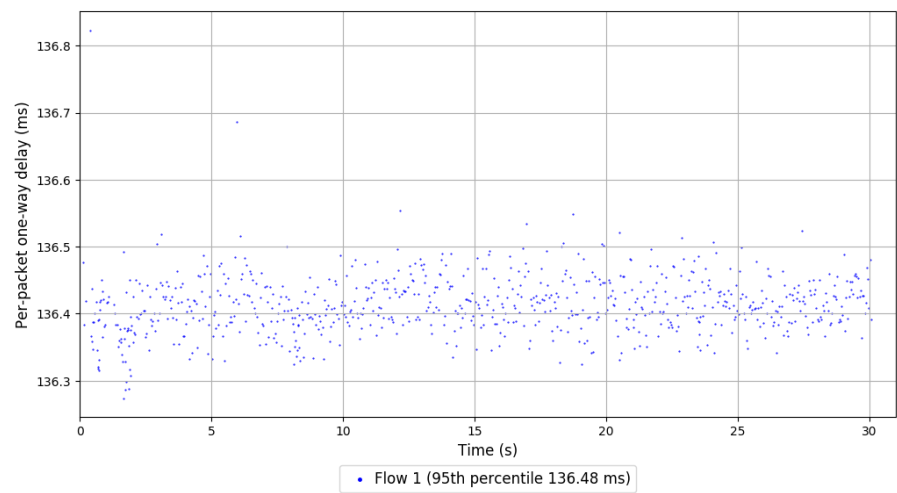
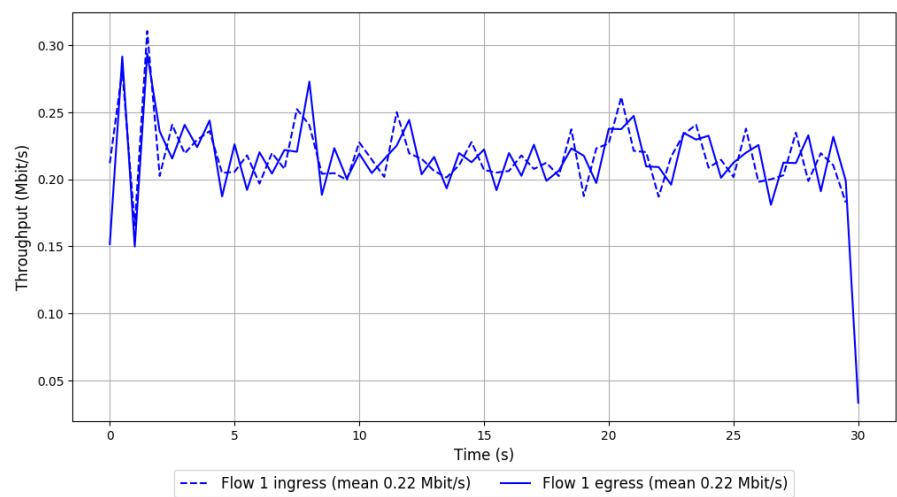
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.482 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-08-11 17:46:24

End at: 2017-08-11 17:46:54

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.000 ms

Loss rate: 0.00%

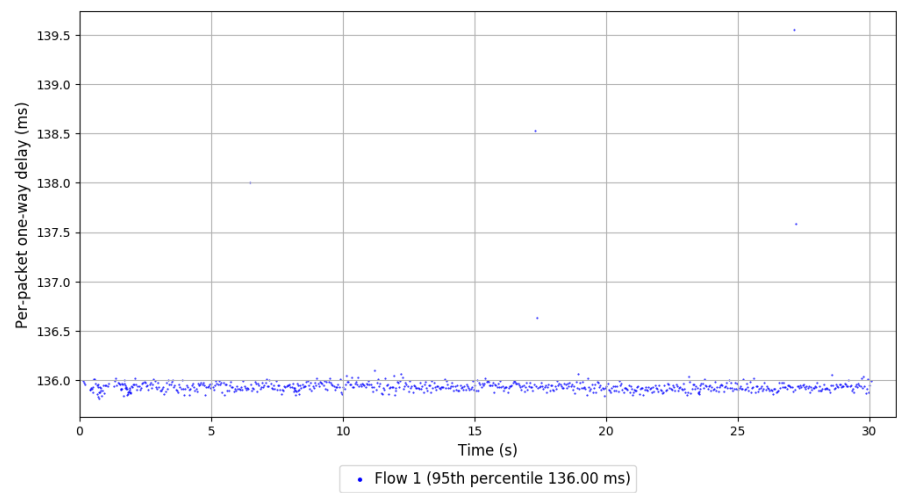
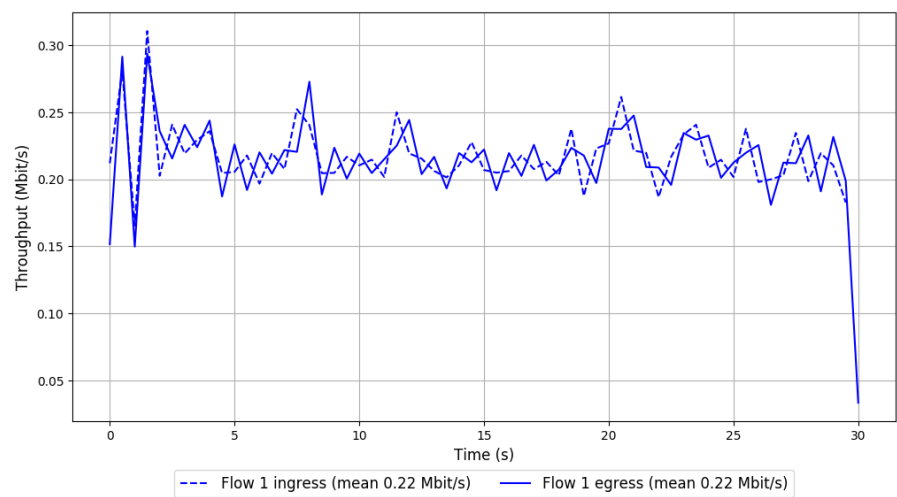
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.000 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-08-11 17:57:42

End at: 2017-08-11 17:58:12

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.519 ms

Loss rate: 0.00%

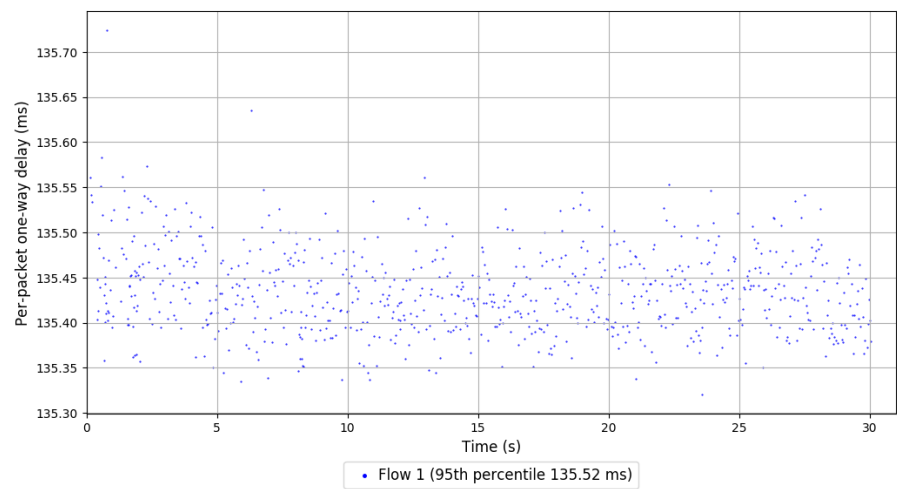
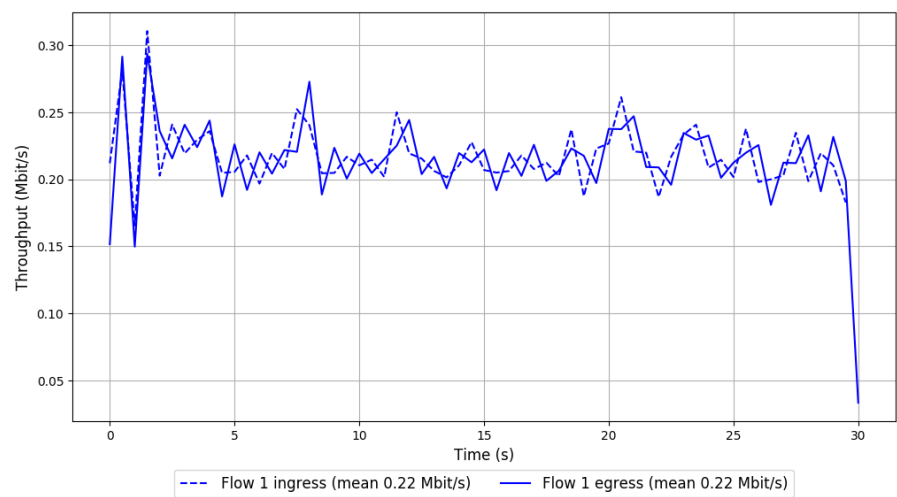
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.519 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-08-11 18:09:04

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

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.316 ms

Loss rate: 0.00%

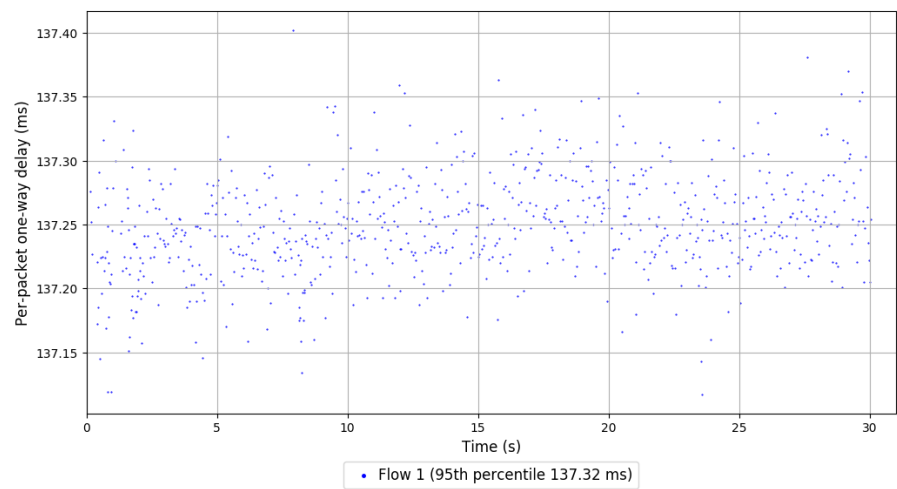
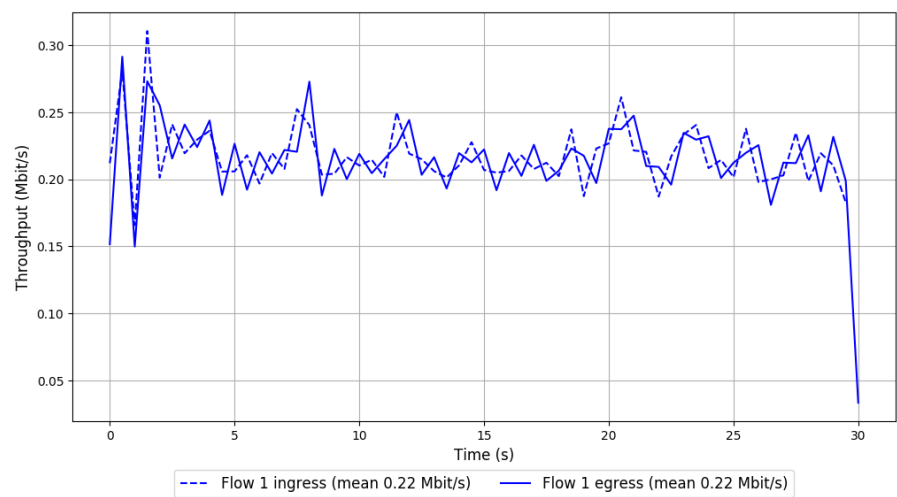
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.316 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-08-11 18:20:34

End at: 2017-08-11 18:21:04

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.722 ms

Loss rate: 0.00%

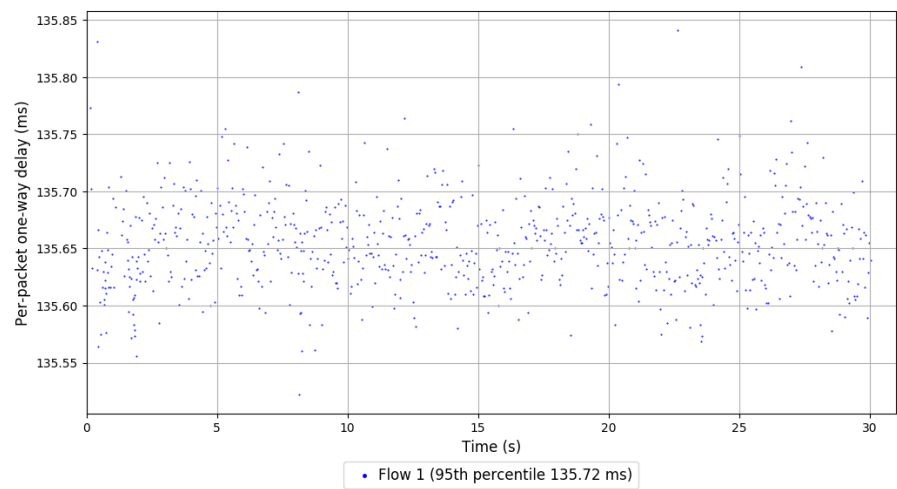
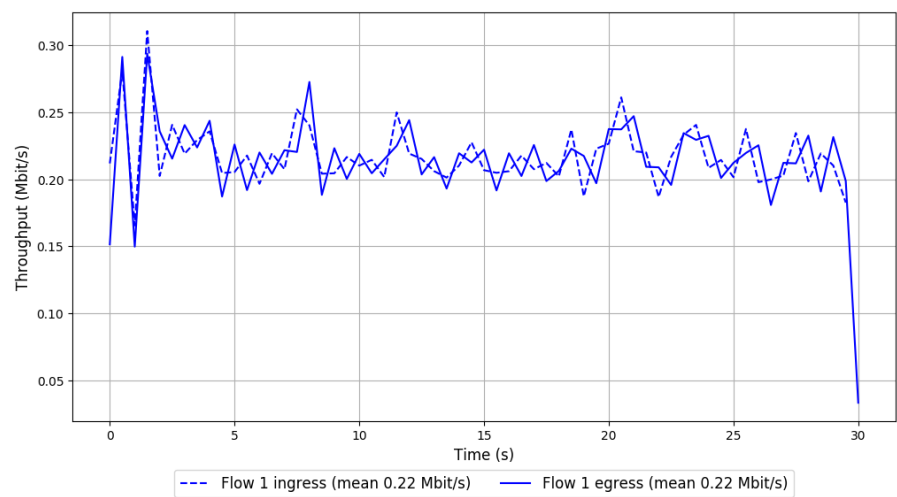
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.722 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-08-11 18:32:28

End at: 2017-08-11 18:32:58

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.475 ms

Loss rate: 0.00%

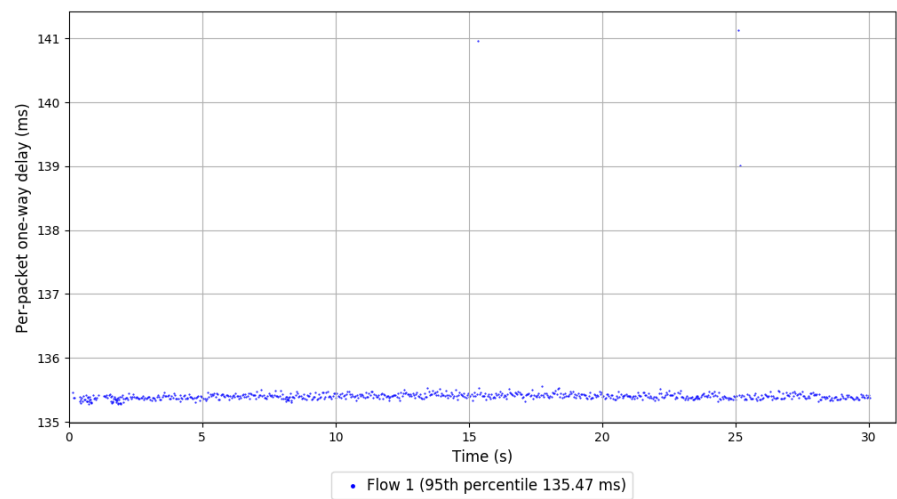
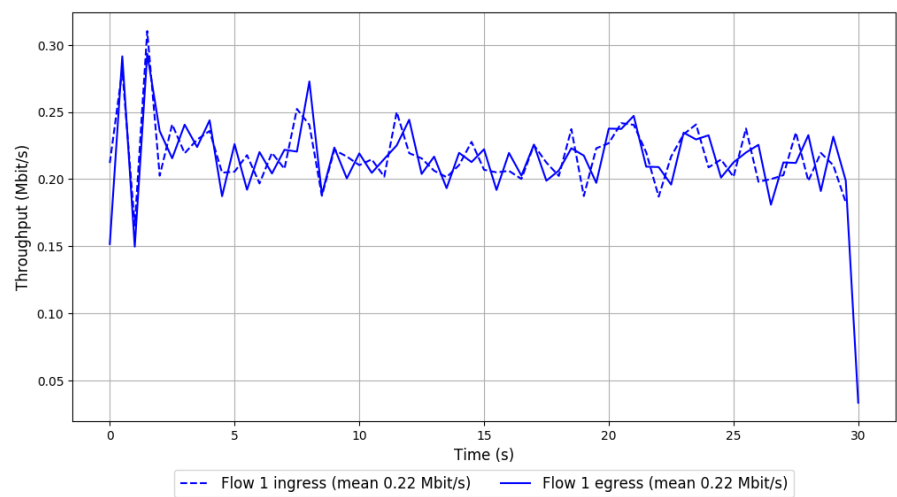
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.475 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-08-11 18:43:39

End at: 2017-08-11 18:44:09

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.826 ms

Loss rate: 0.00%

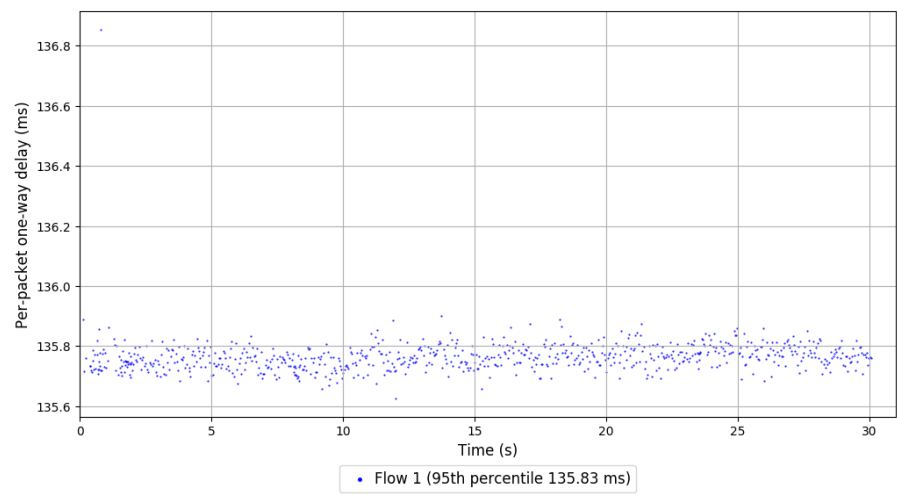
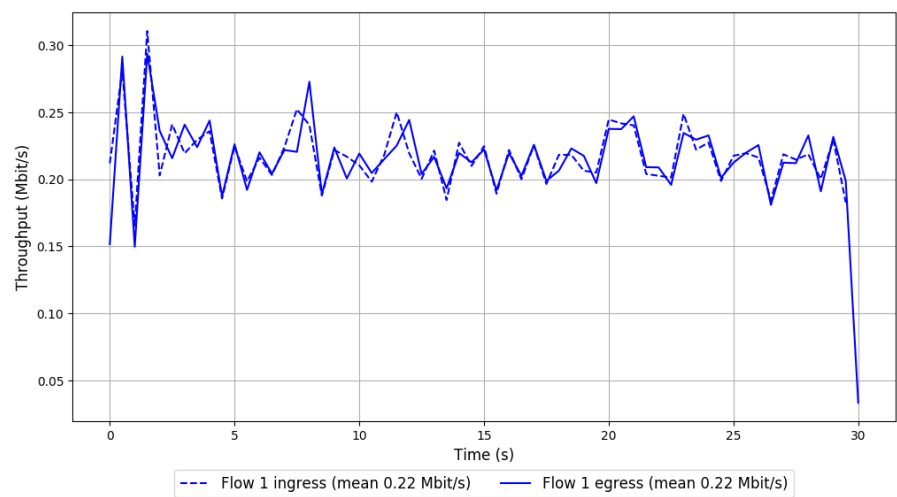
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.826 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-08-11 18:54:37

End at: 2017-08-11 18:55:07

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.102 ms

Loss rate: 0.00%

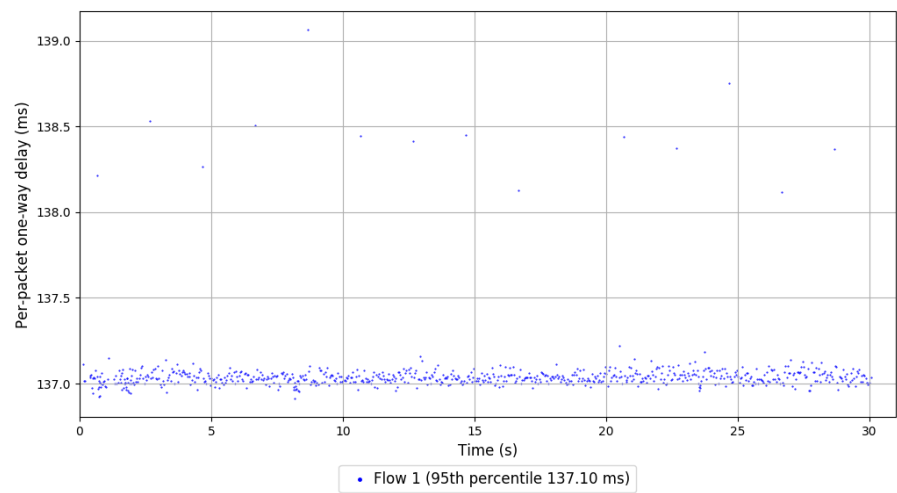
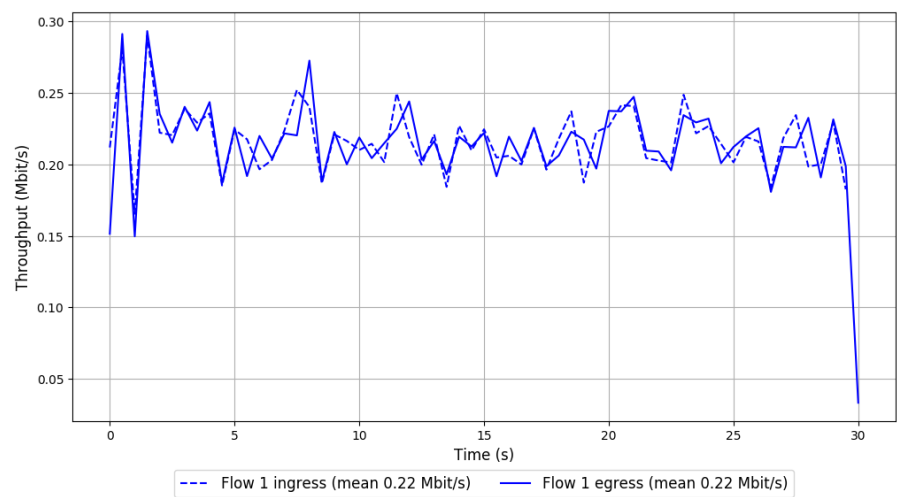
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.102 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-08-11 19:05:47

End at: 2017-08-11 19:06:17

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.957 ms

Loss rate: 0.00%

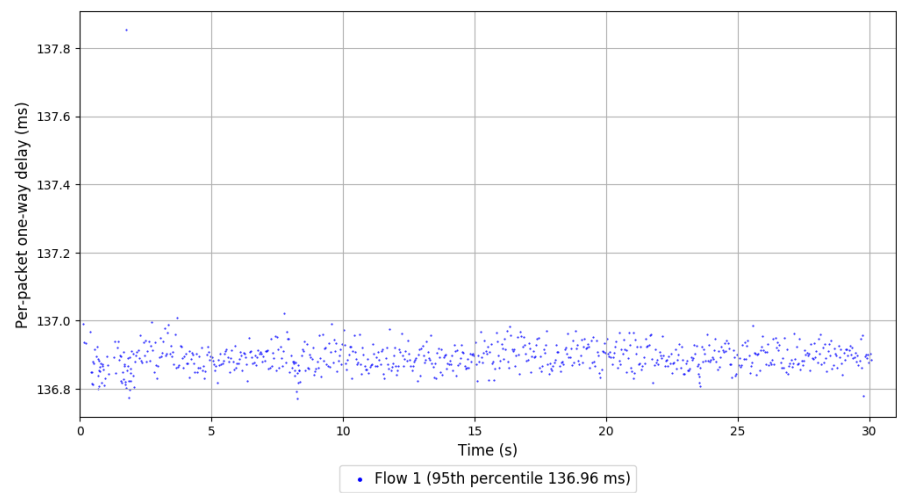
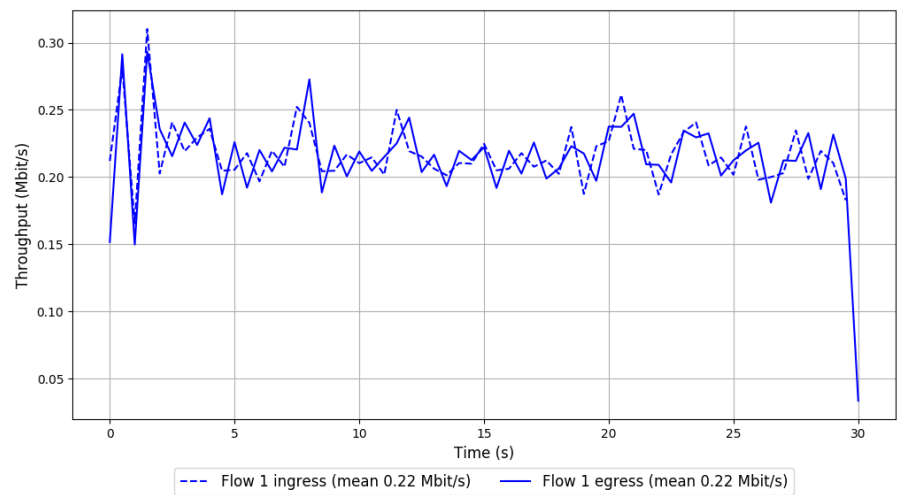
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.957 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2017-08-11 17:25:01

End at: 2017-08-11 17:25:31

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.198 ms

Loss rate: 0.00%

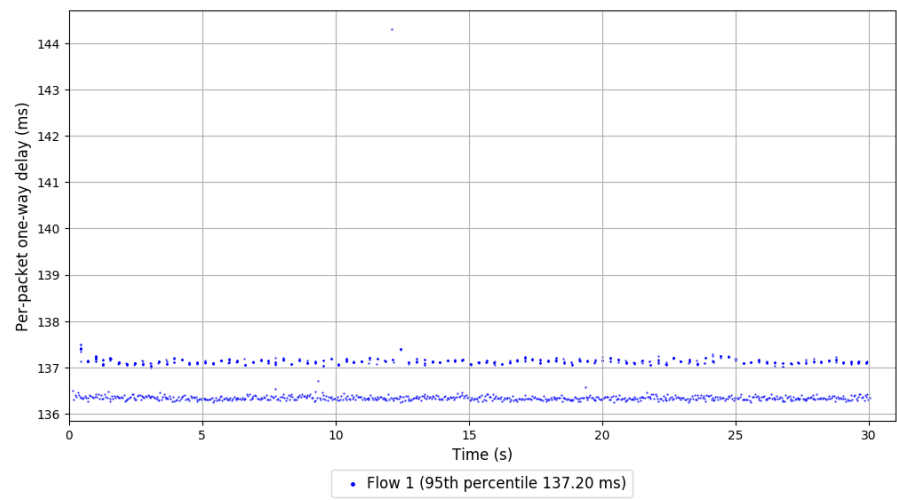
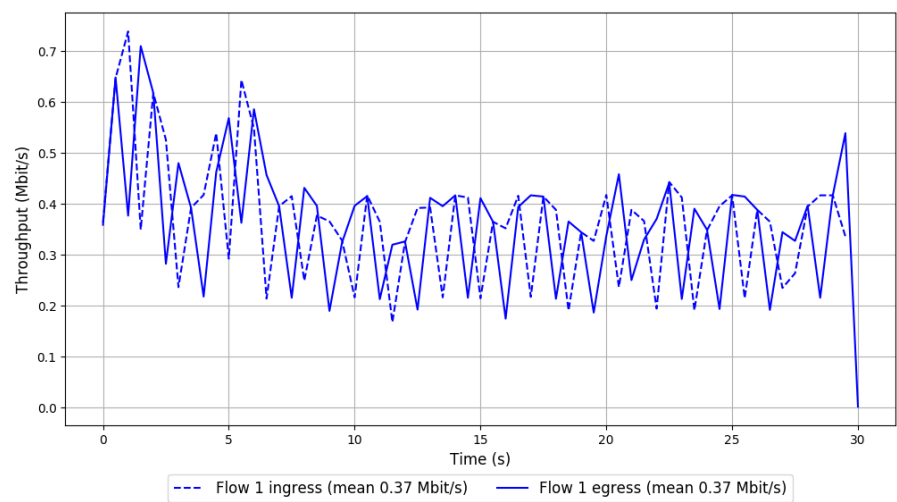
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.198 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-11 17:36:37

End at: 2017-08-11 17:37:07

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.861 ms

Loss rate: 0.00%

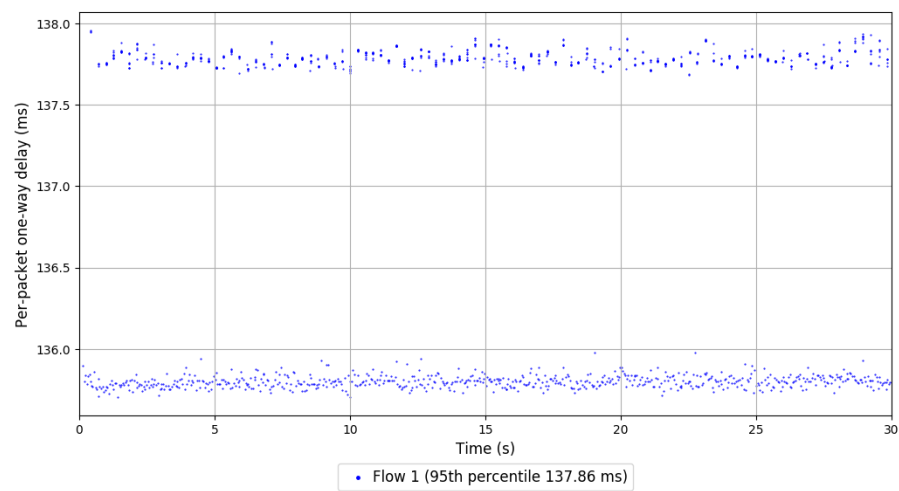
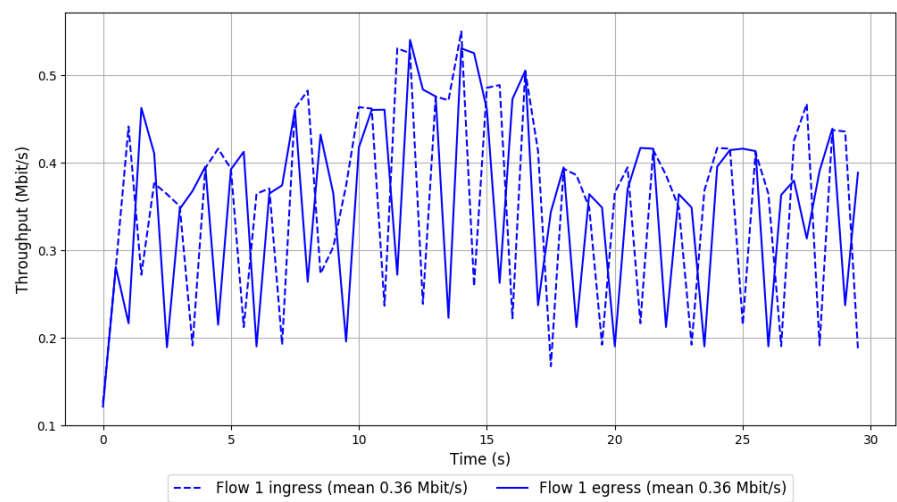
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.861 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-08-11 17:47:53

End at: 2017-08-11 17:48:23

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 138.143 ms

Loss rate: 0.00%

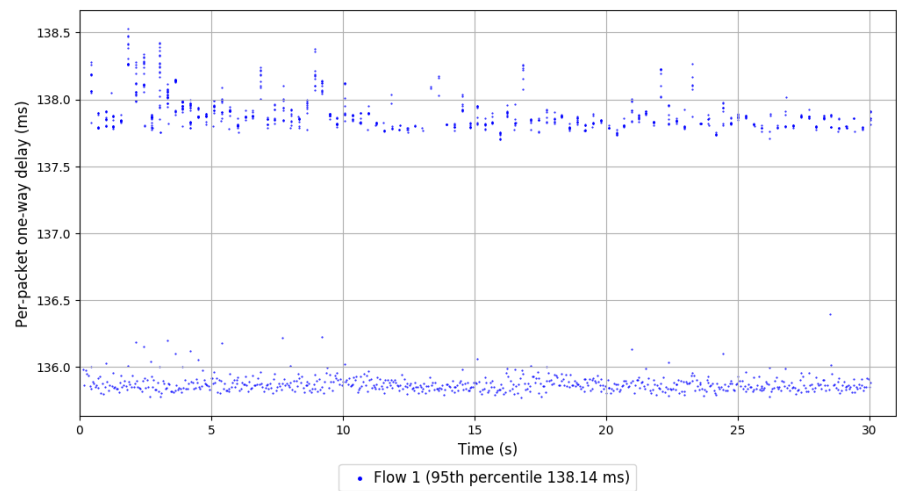
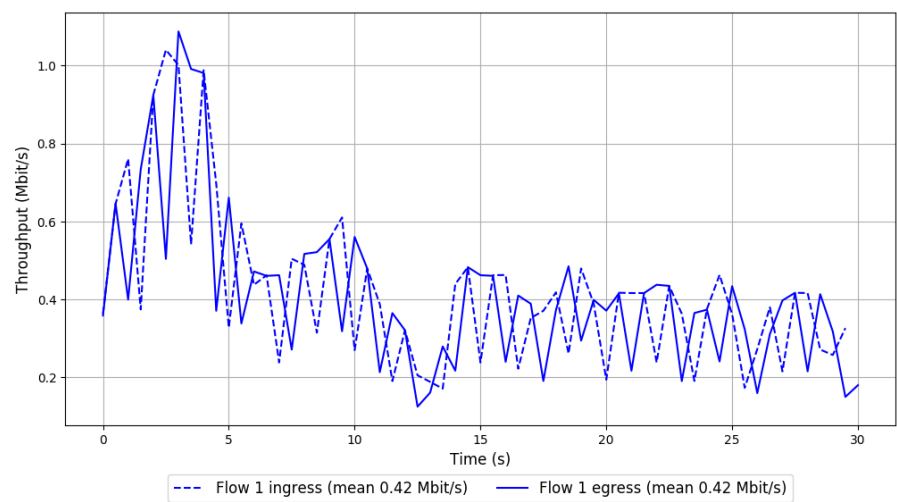
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 138.143 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-08-11 17:59:09

End at: 2017-08-11 17:59:39

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.871 ms

Loss rate: 0.00%

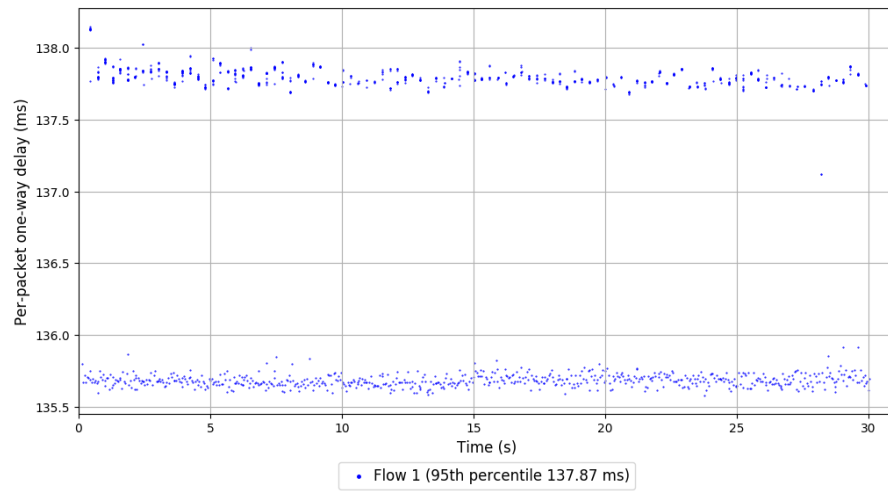
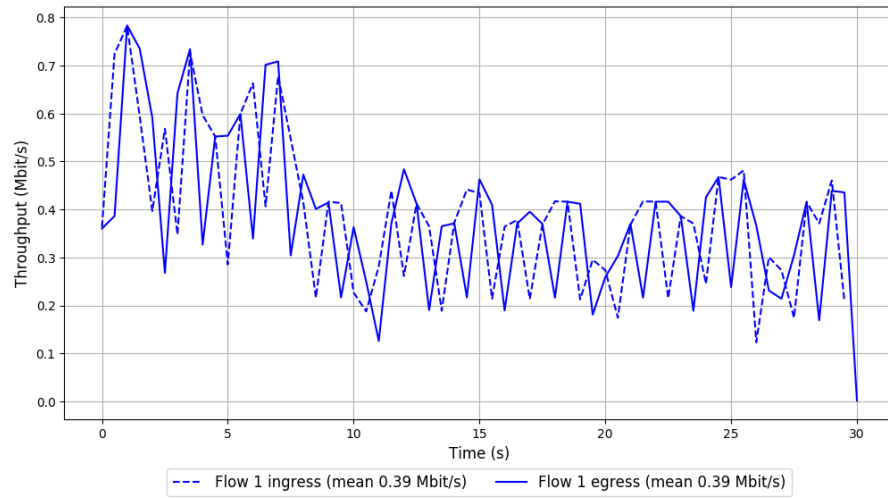
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.871 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-08-11 18:10:33

End at: 2017-08-11 18:11:03

Below is generated by plot.py at 2017-08-11 20:16:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.00%

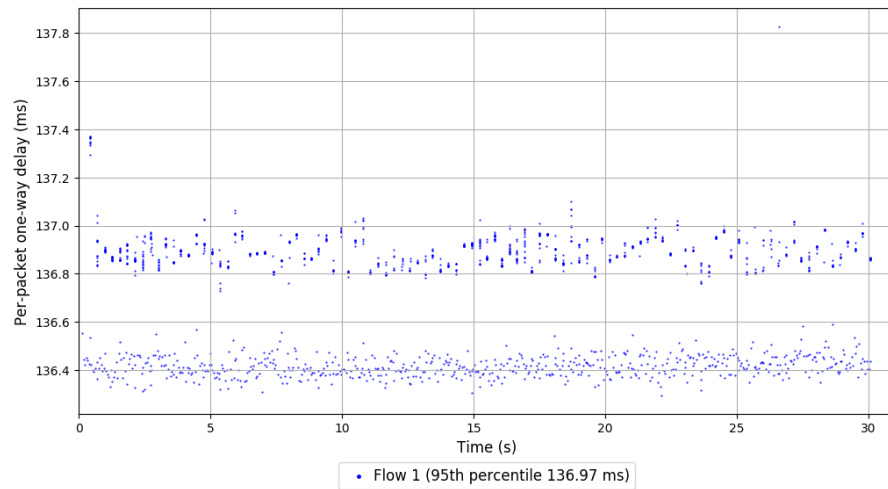
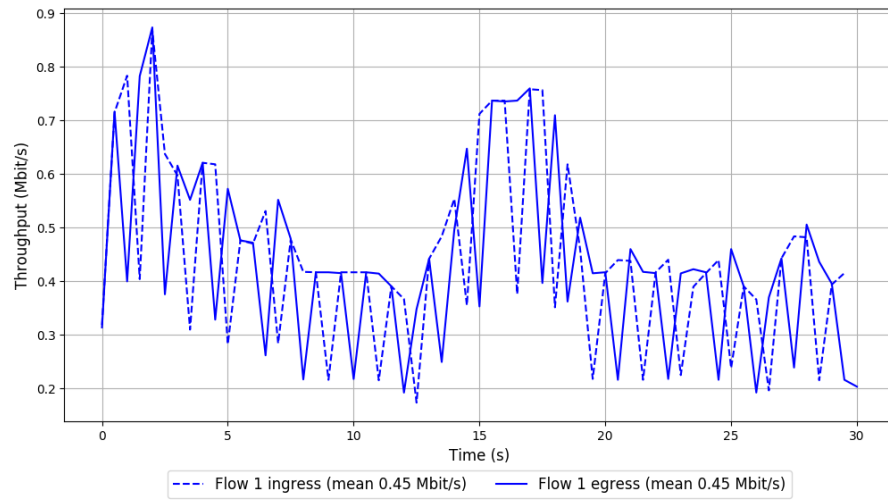
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-08-11 18:22:12

End at: 2017-08-11 18:22:42

Below is generated by plot.py at 2017-08-11 20:16:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.943 ms

Loss rate: 0.00%

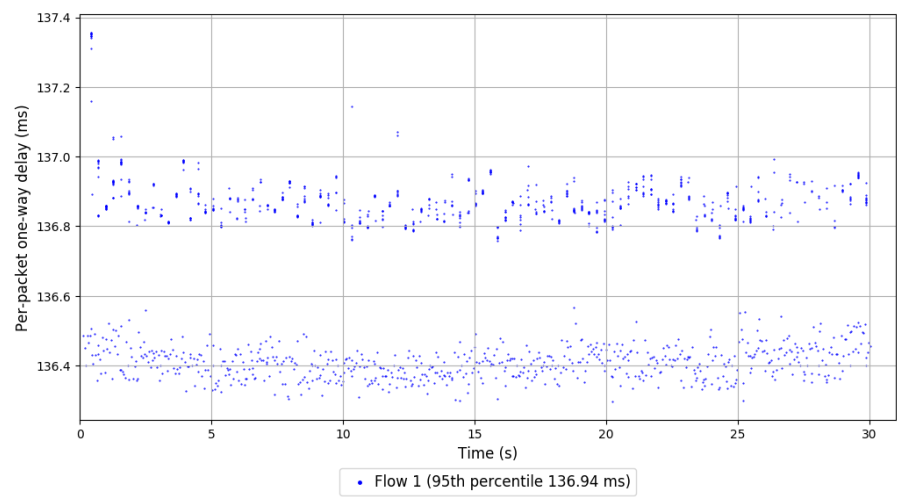
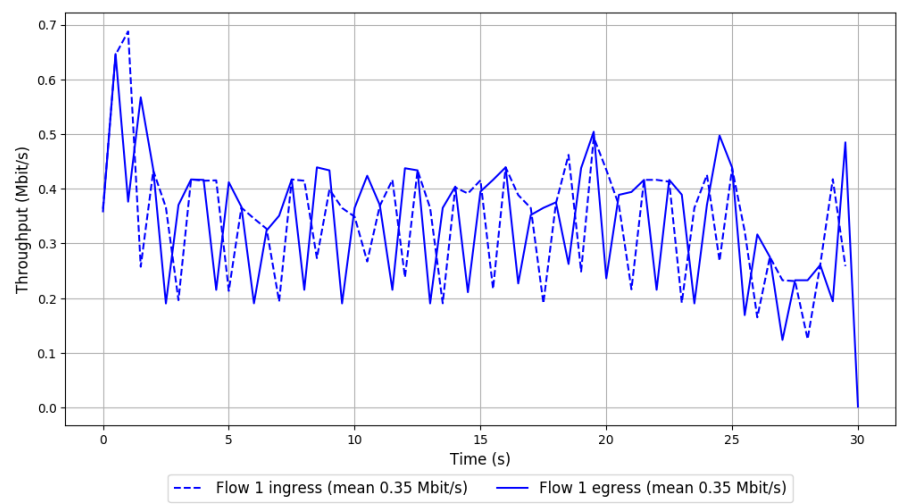
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.943 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-08-11 18:33:58

End at: 2017-08-11 18:34:28

Below is generated by plot.py at 2017-08-11 20:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.959 ms

Loss rate: 0.00%

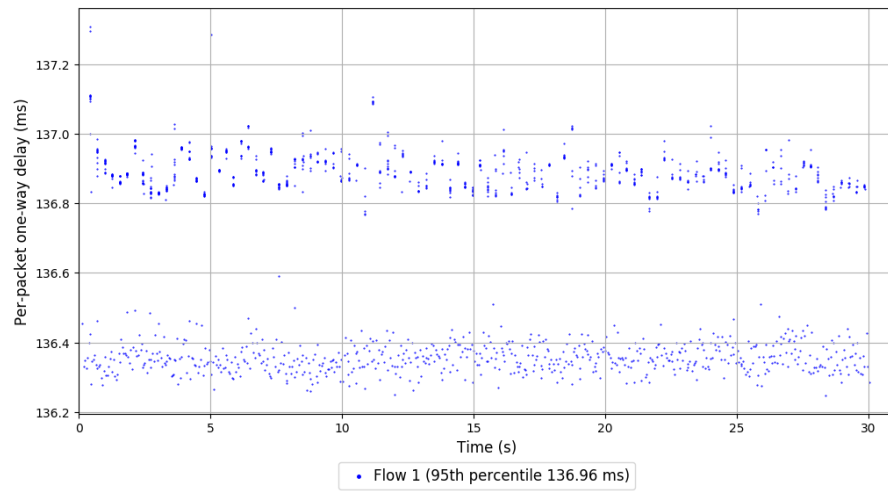
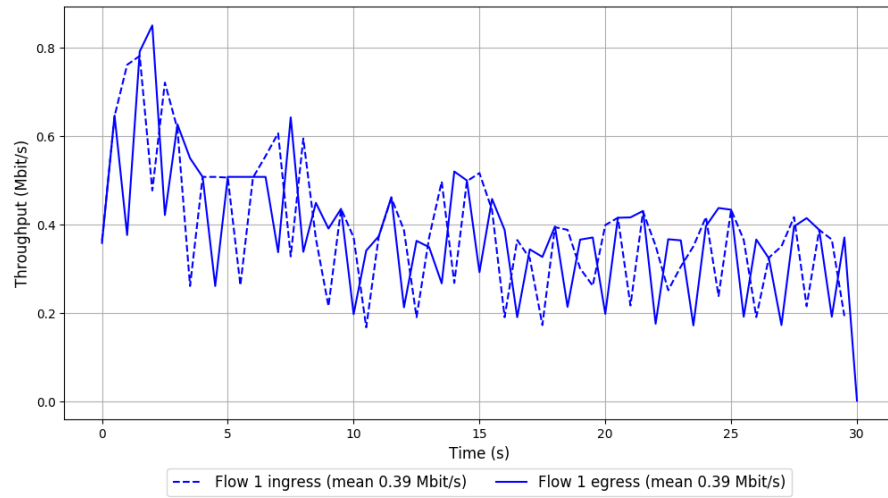
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.959 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-11 18:45:05

End at: 2017-08-11 18:45:35

Below is generated by plot.py at 2017-08-11 20:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 138.067 ms

Loss rate: 0.00%

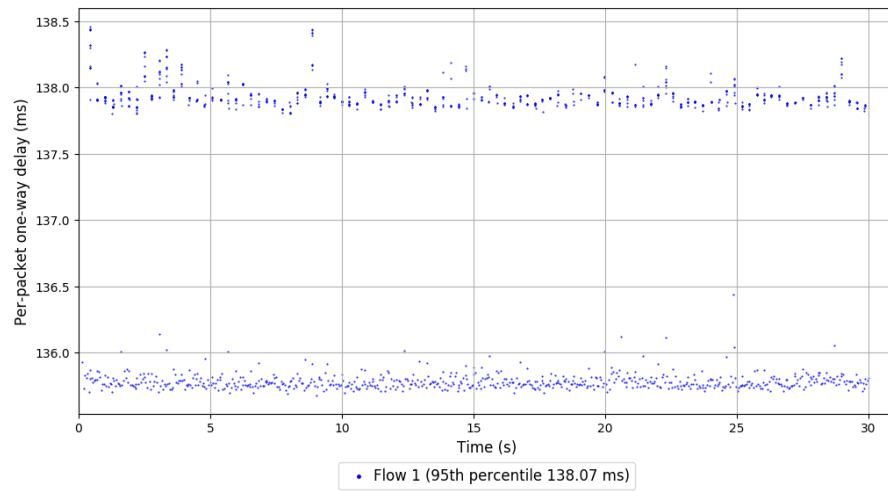
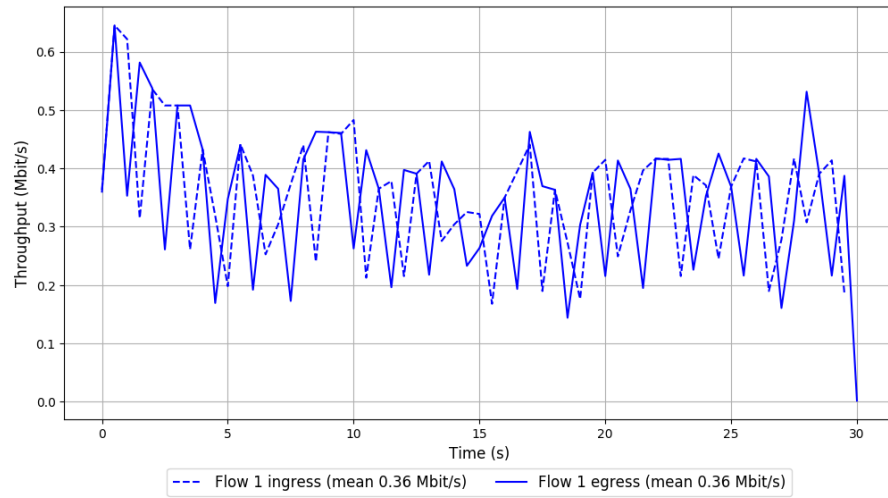
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 138.067 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-08-11 18:56:06

End at: 2017-08-11 18:56:36

Below is generated by plot.py at 2017-08-11 20:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 138.039 ms

Loss rate: 0.00%

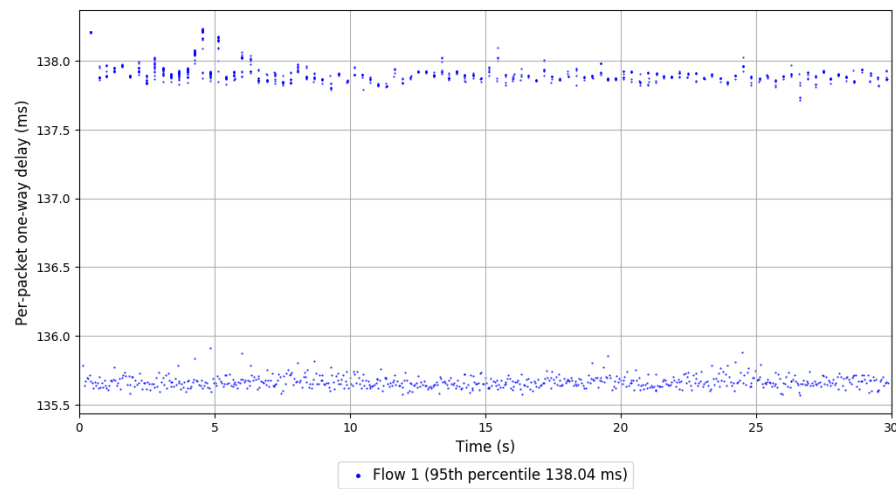
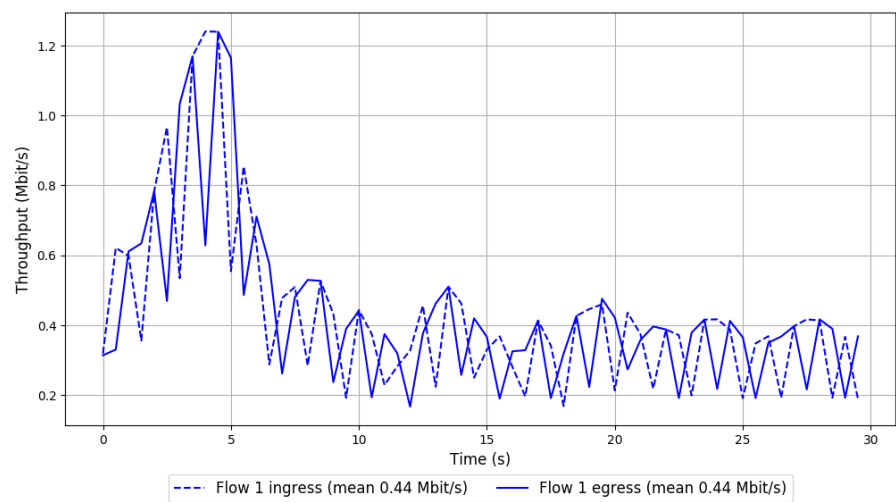
-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 138.039 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-08-11 19:07:14

End at: 2017-08-11 19:07:44

Below is generated by plot.py at 2017-08-11 20:16:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.303 ms

Loss rate: 0.00%

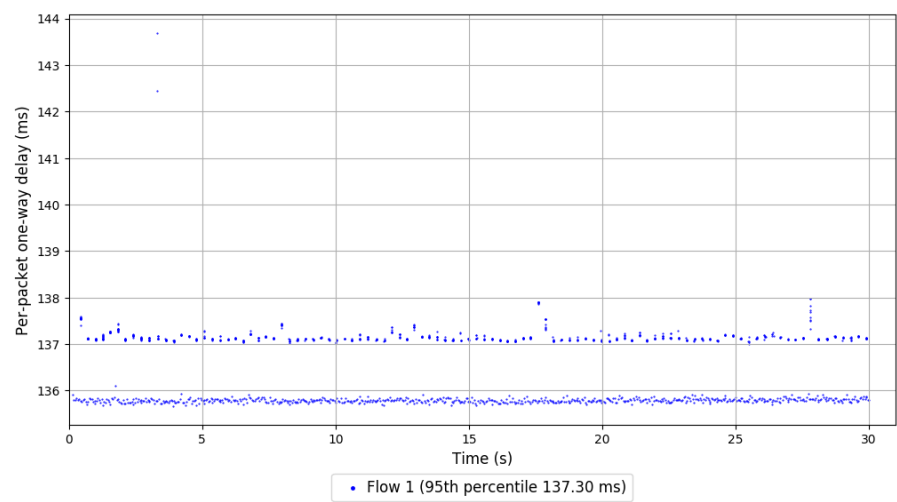
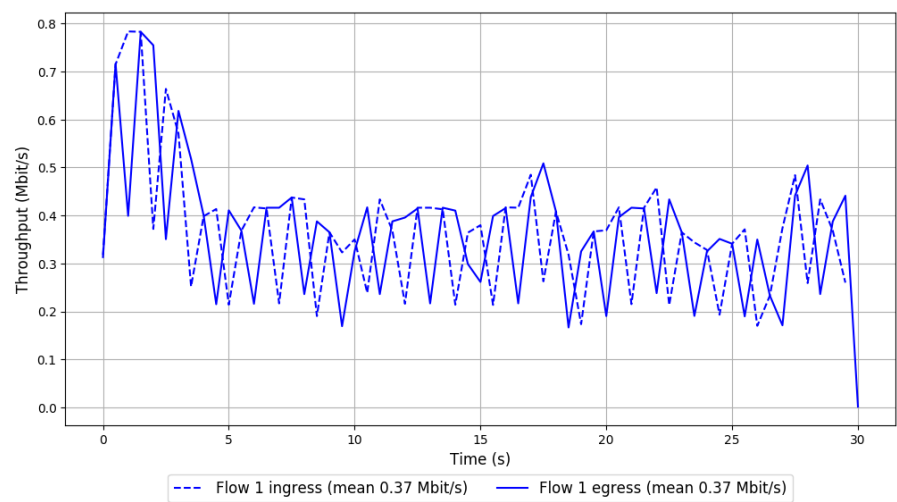
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.303 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

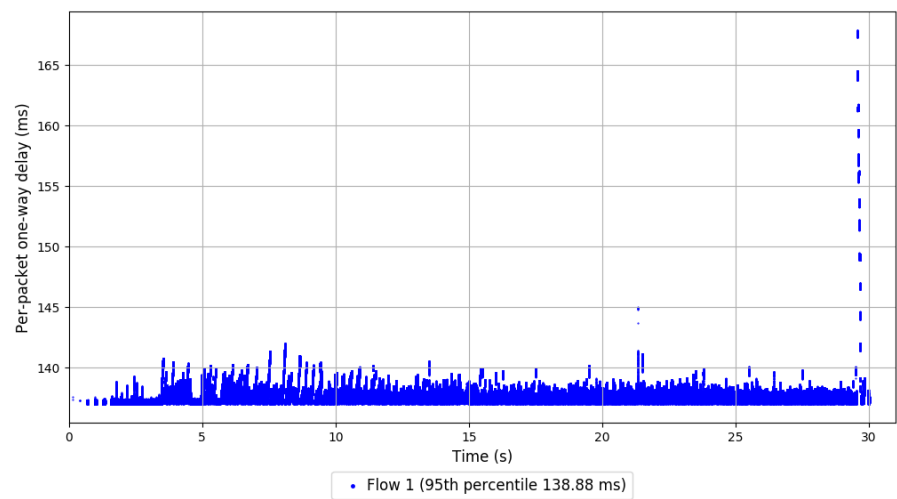
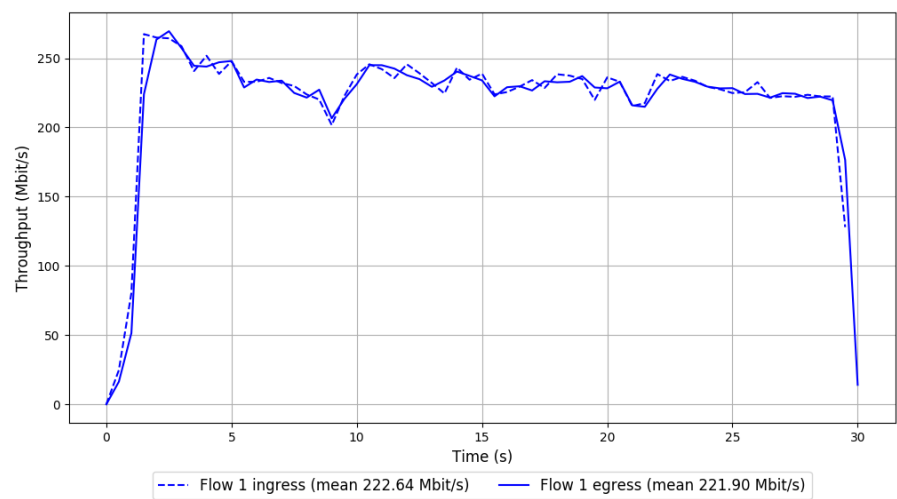


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-08-11 17:20:10
End at: 2017-08-11 17:20:40

# Below is generated by plot.py at 2017-08-11 20:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.90 Mbit/s
95th percentile per-packet one-way delay: 138.880 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 221.90 Mbit/s
95th percentile per-packet one-way delay: 138.880 ms
Loss rate: 0.33%
```

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

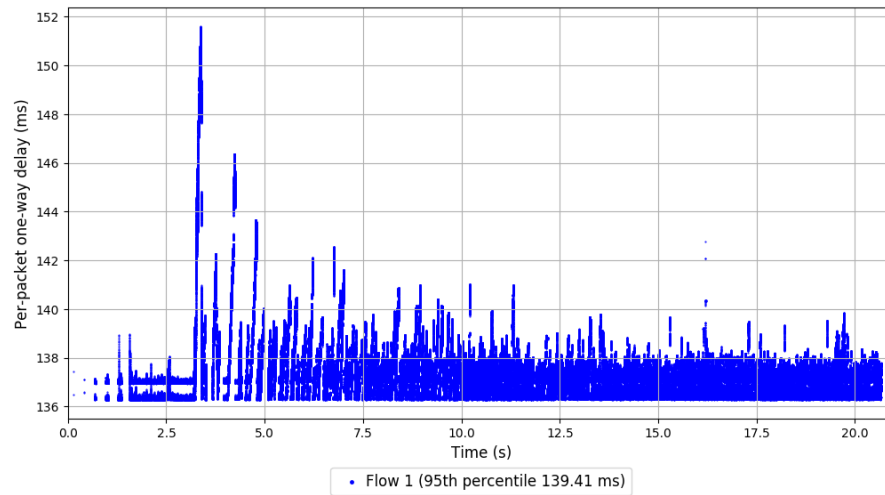
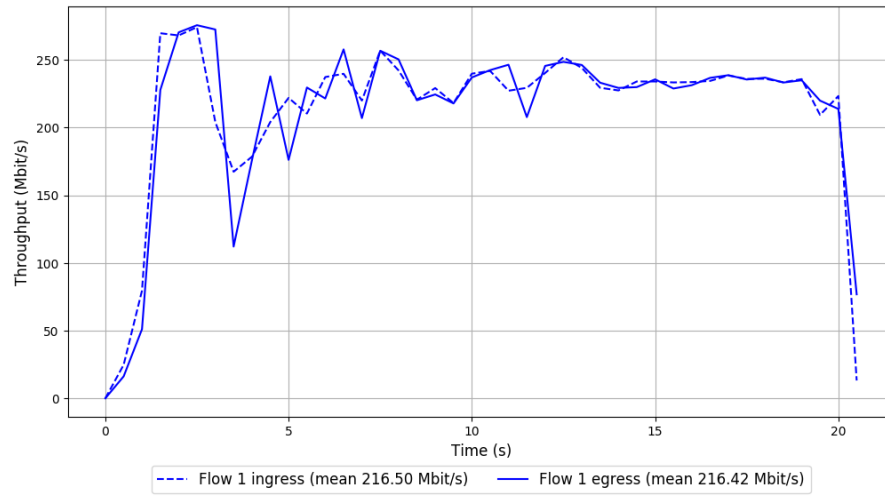


Run 2: Statistics of TaoVA-100x

Start at: 2017-08-11 17:31:52

End at: 2017-08-11 17:32:22

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-08-11 17:43:11

End at: 2017-08-11 17:43:41

Below is generated by plot.py at 2017-08-11 20:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 137.714 ms

Loss rate: 0.53%

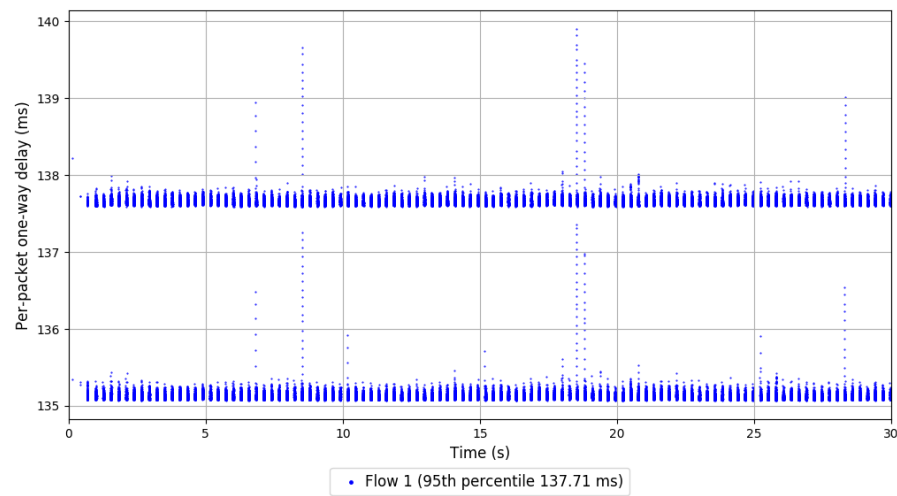
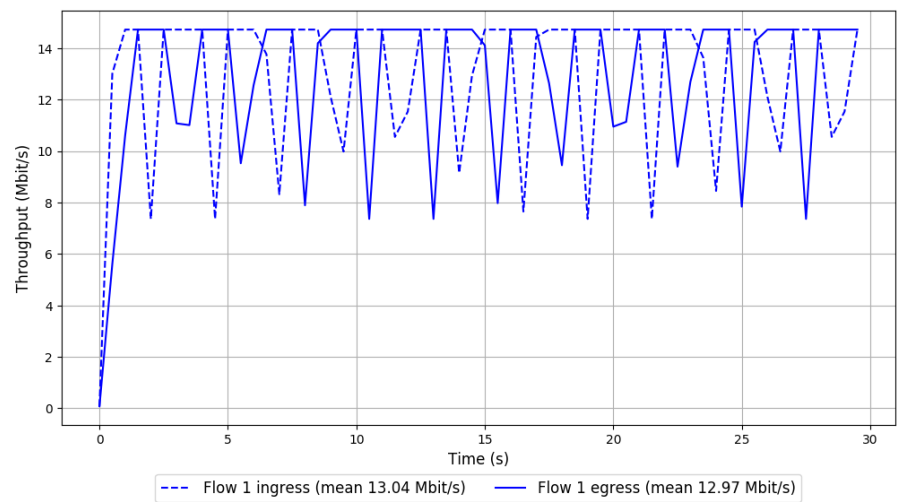
-- Flow 1:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 137.714 ms

Loss rate: 0.53%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-08-11 17:54:48

End at: 2017-08-11 17:55:18

Below is generated by plot.py at 2017-08-11 20:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 137.777 ms

Loss rate: 1.18%

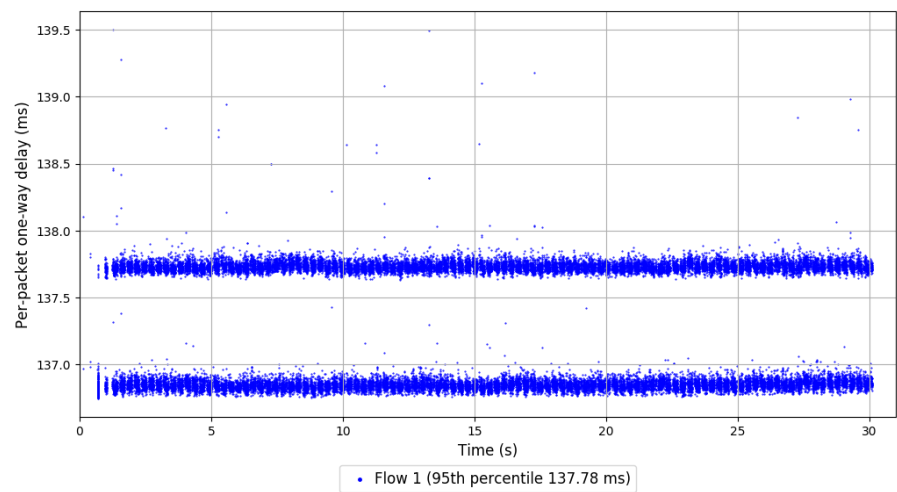
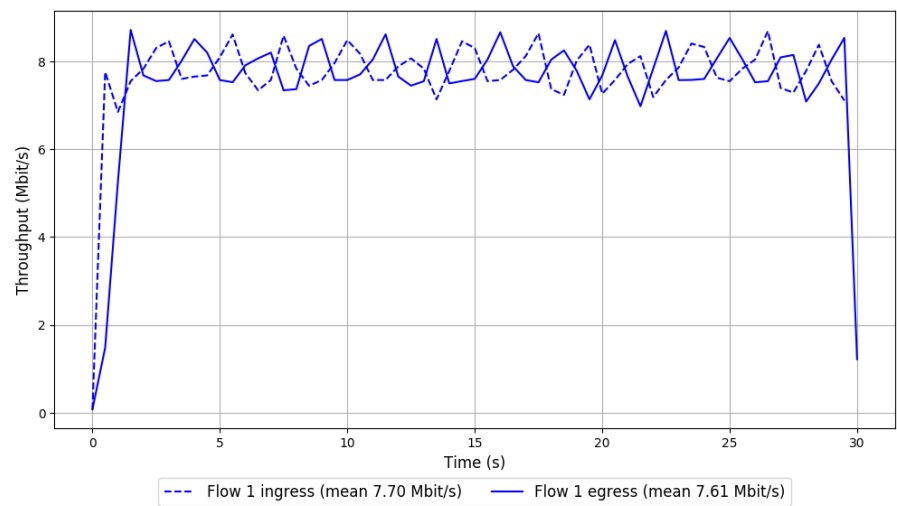
-- Flow 1:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 137.777 ms

Loss rate: 1.18%

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

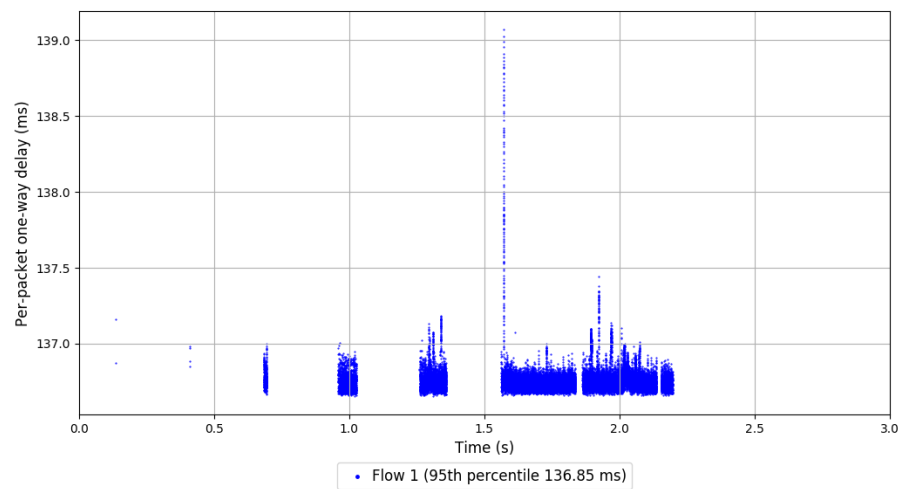
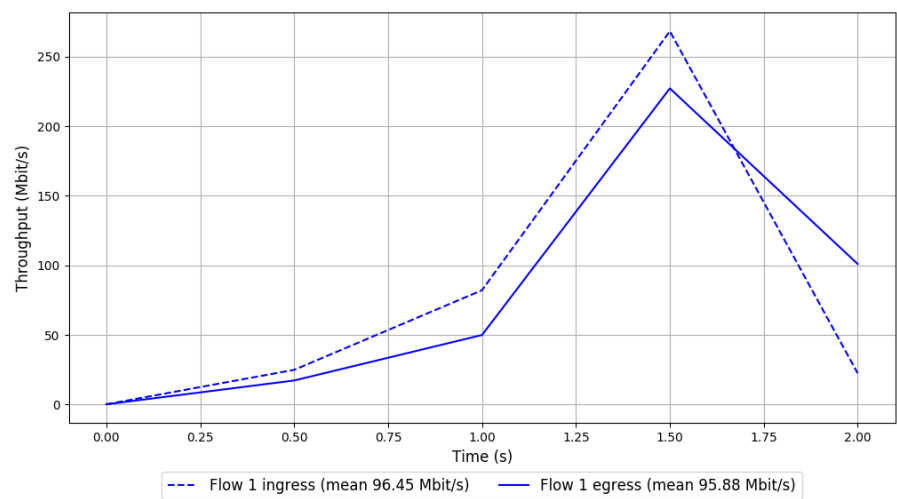


Run 5: Statistics of TaoVA-100x

Start at: 2017-08-11 18:05:52

End at: 2017-08-11 18:06:22

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-08-11 18:17:08

End at: 2017-08-11 18:17:38

Below is generated by plot.py at 2017-08-11 20:18:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.32 Mbit/s

95th percentile per-packet one-way delay: 136.855 ms

Loss rate: 0.43%

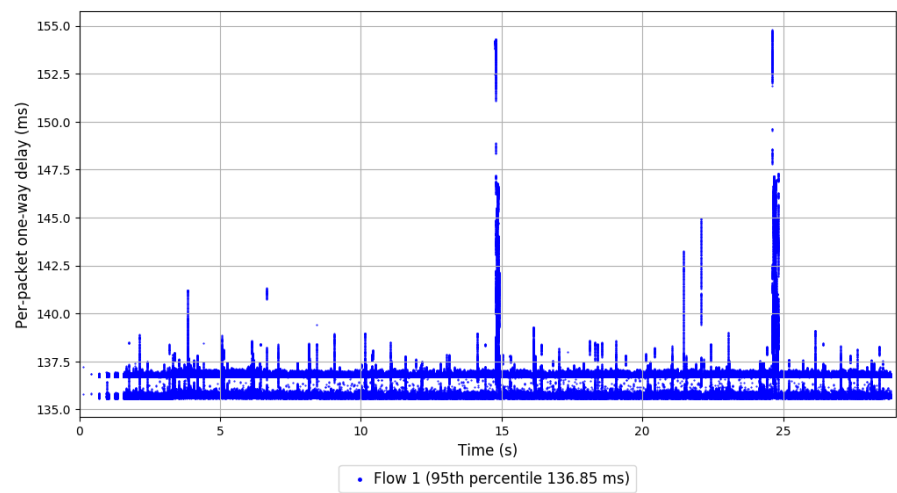
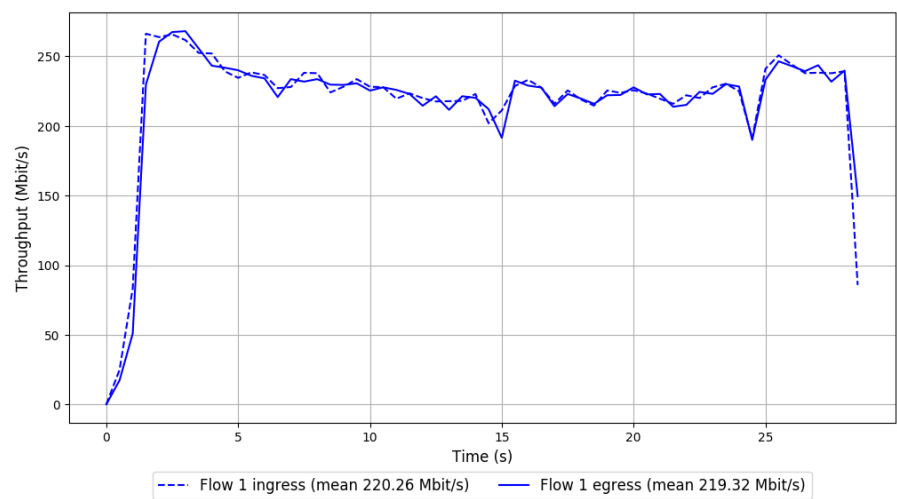
-- Flow 1:

Average throughput: 219.32 Mbit/s

95th percentile per-packet one-way delay: 136.855 ms

Loss rate: 0.43%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-08-11 18:29:07

End at: 2017-08-11 18:29:37

Below is generated by plot.py at 2017-08-11 20:19:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.77 Mbit/s

95th percentile per-packet one-way delay: 141.196 ms

Loss rate: 0.52%

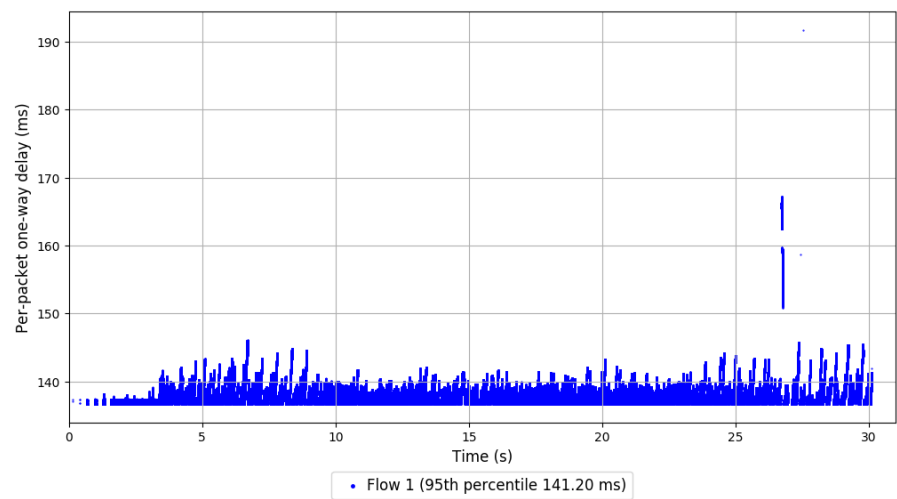
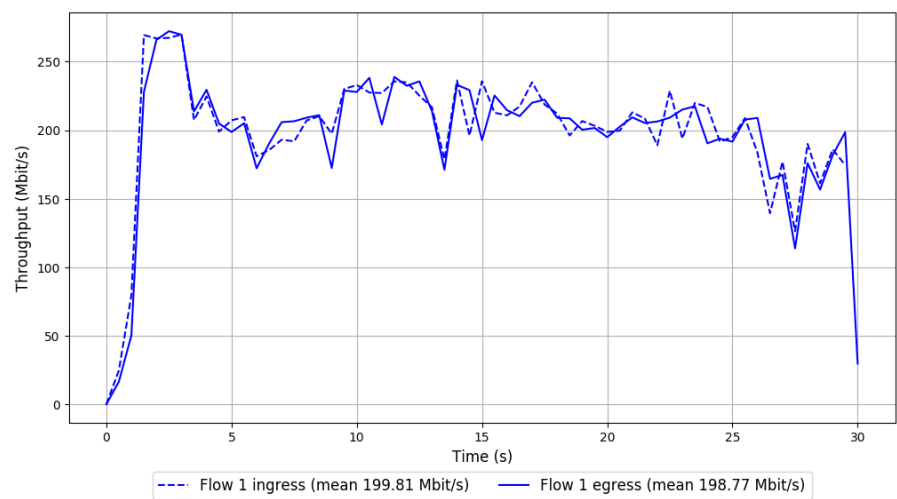
-- Flow 1:

Average throughput: 198.77 Mbit/s

95th percentile per-packet one-way delay: 141.196 ms

Loss rate: 0.52%

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

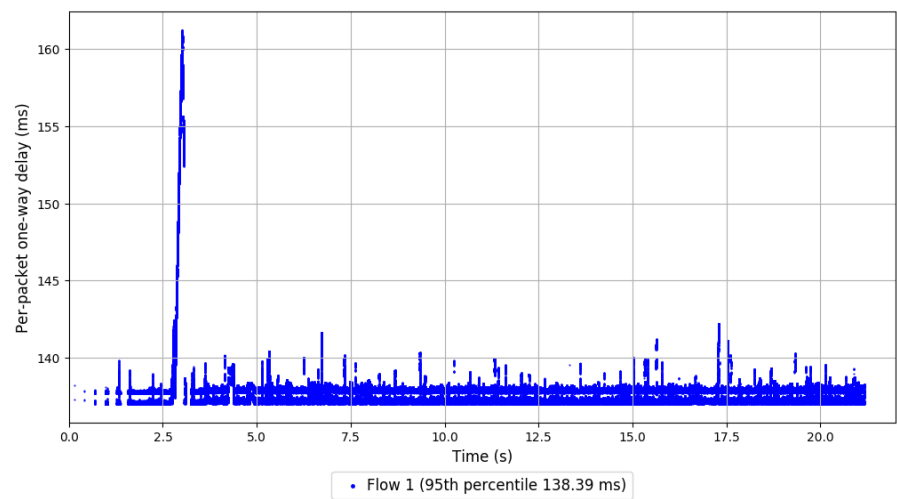
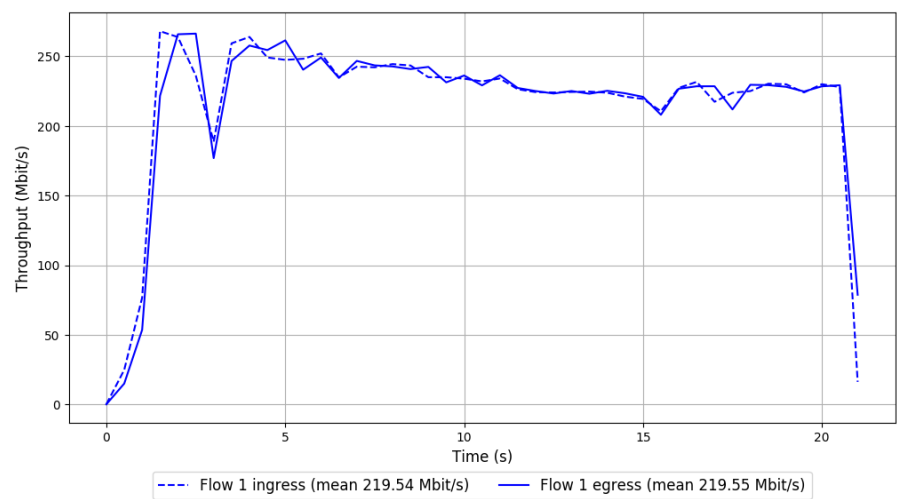


Run 8: Statistics of TaoVA-100x

Start at: 2017-08-11 18:40:22

End at: 2017-08-11 18:40:52

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-08-11 18:51:40

End at: 2017-08-11 18:52:10

Below is generated by plot.py at 2017-08-11 20:19:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 137.945 ms

Loss rate: 0.63%

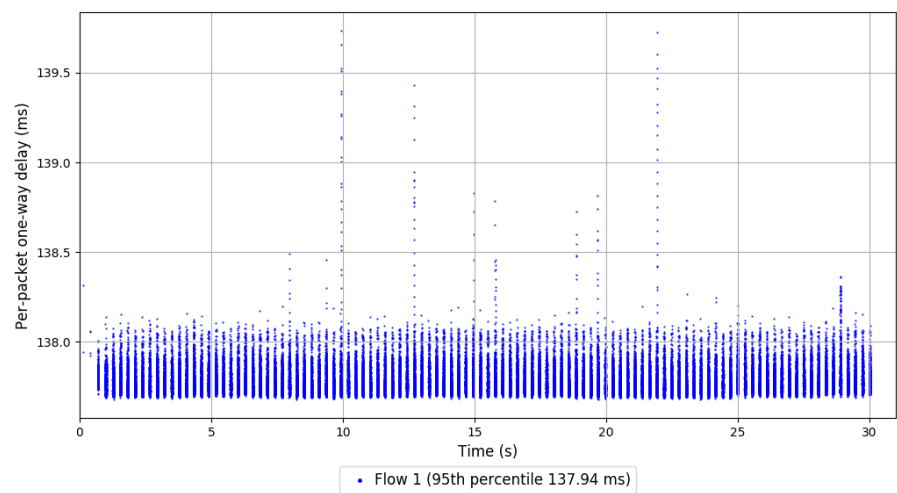
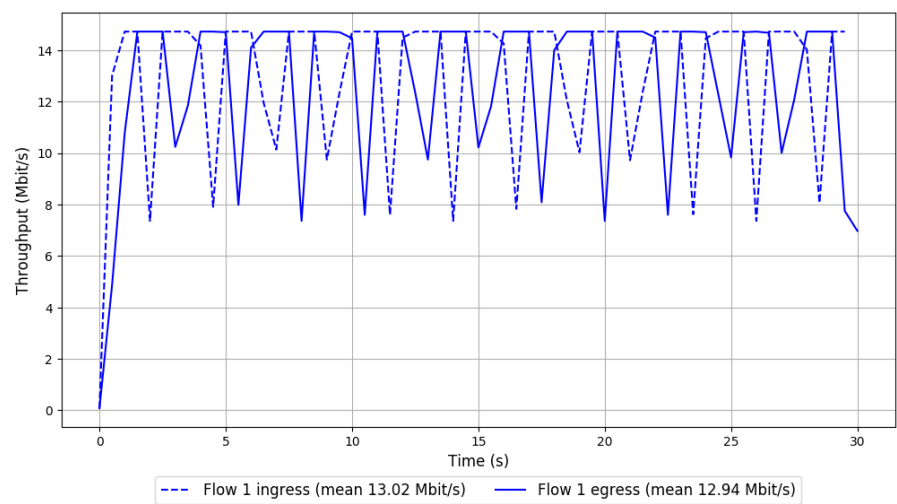
-- Flow 1:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 137.945 ms

Loss rate: 0.63%

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

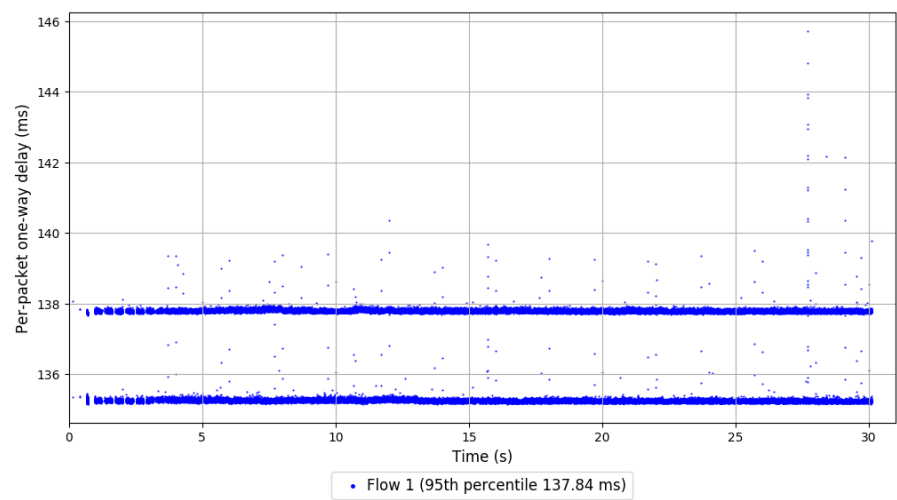
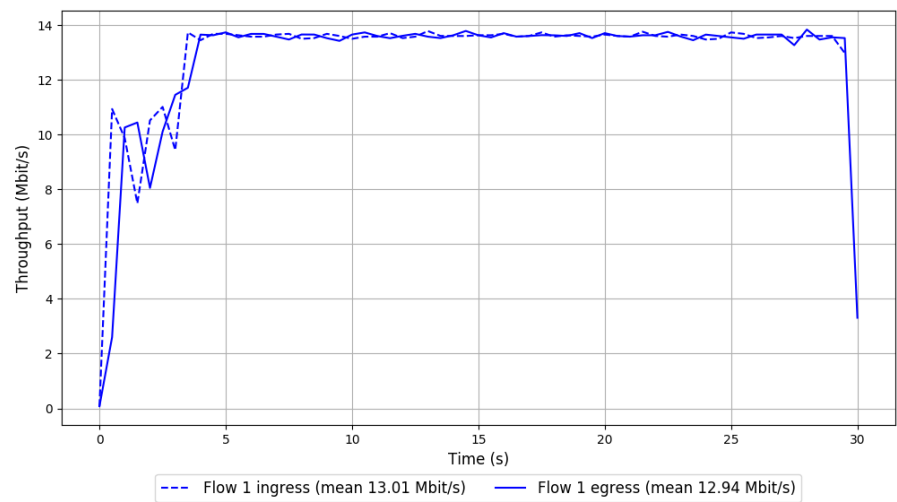


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-08-11 19:02:34
End at: 2017-08-11 19:03:04

# Below is generated by plot.py at 2017-08-11 20:19:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 137.844 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 137.844 ms
Loss rate: 0.57%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-08-11 17:27:51

End at: 2017-08-11 17:28:21

Below is generated by plot.py at 2017-08-11 20:19:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 137.321 ms

Loss rate: 3.32%

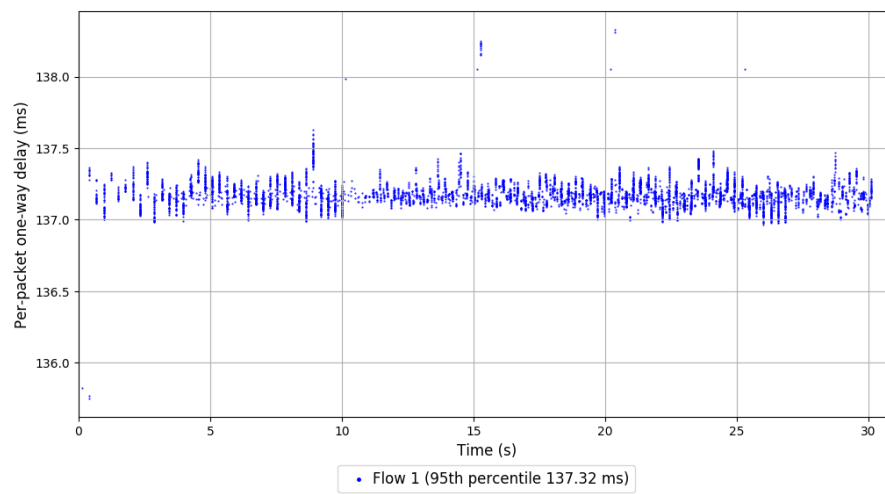
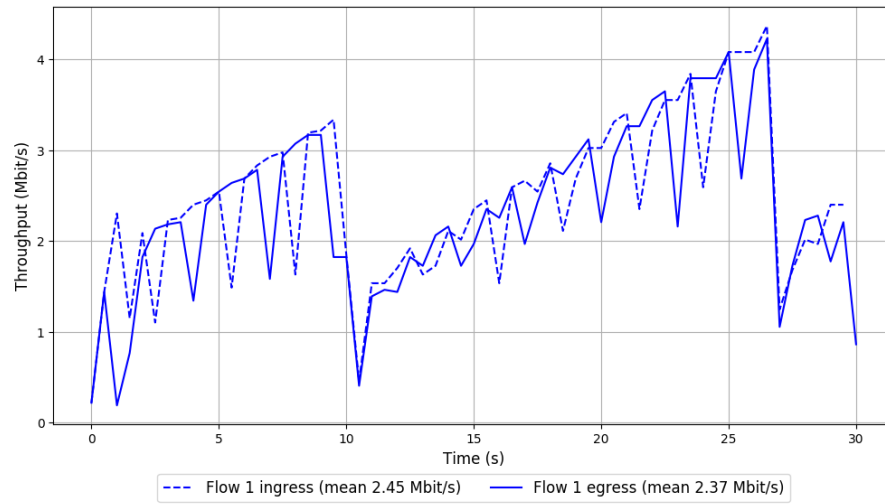
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 137.321 ms

Loss rate: 3.32%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-08-11 17:39:26

End at: 2017-08-11 17:39:56

Below is generated by plot.py at 2017-08-11 20:19:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 137.946 ms

Loss rate: 1.28%

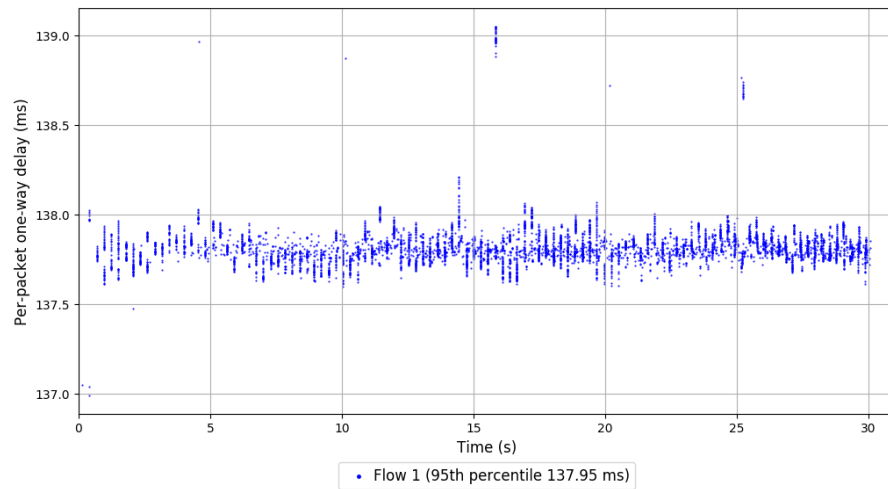
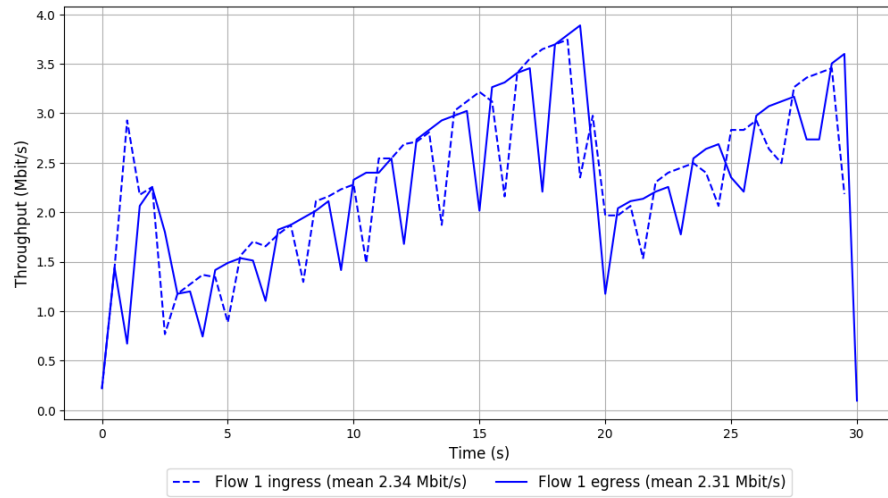
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 137.946 ms

Loss rate: 1.28%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-11 17:50:43

End at: 2017-08-11 17:51:13

Below is generated by plot.py at 2017-08-11 20:19:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 138.016 ms

Loss rate: 3.13%

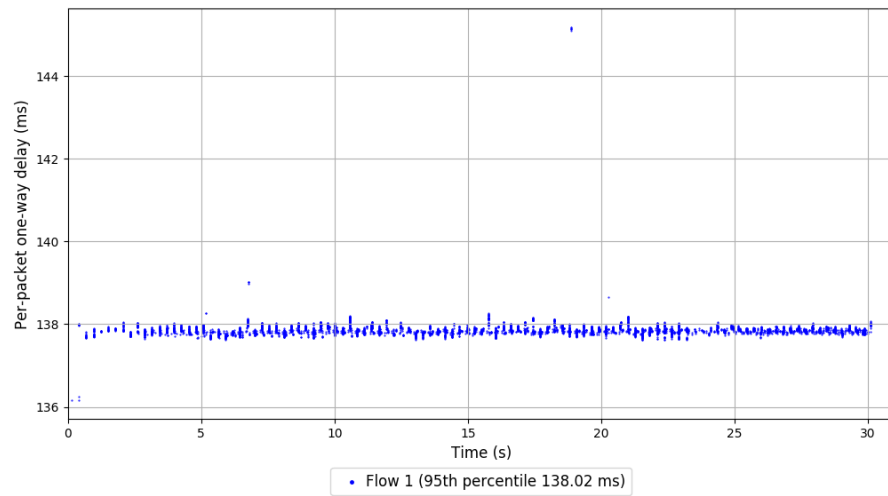
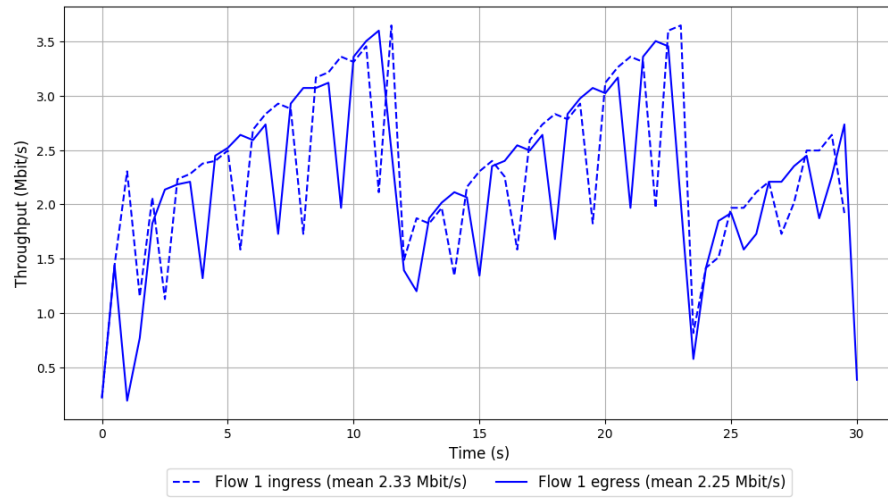
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 138.016 ms

Loss rate: 3.13%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-08-11 18:02:02

End at: 2017-08-11 18:02:32

Below is generated by plot.py at 2017-08-11 20:19:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 138.236 ms

Loss rate: 1.68%

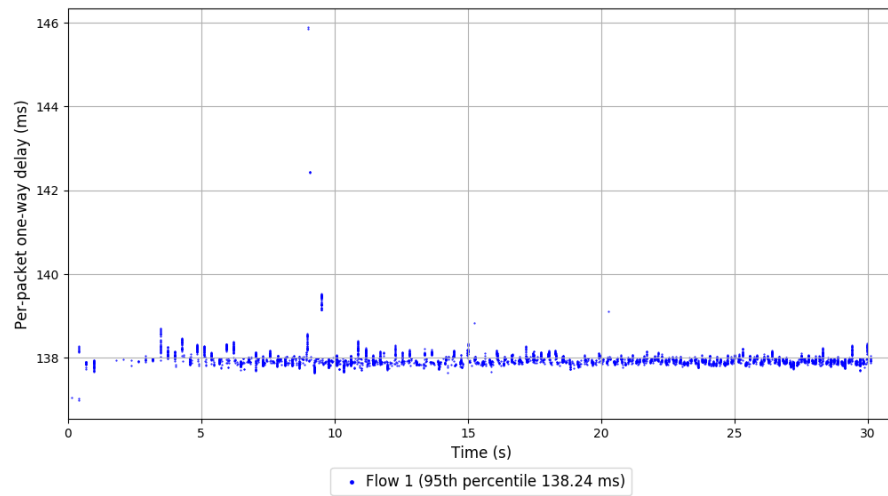
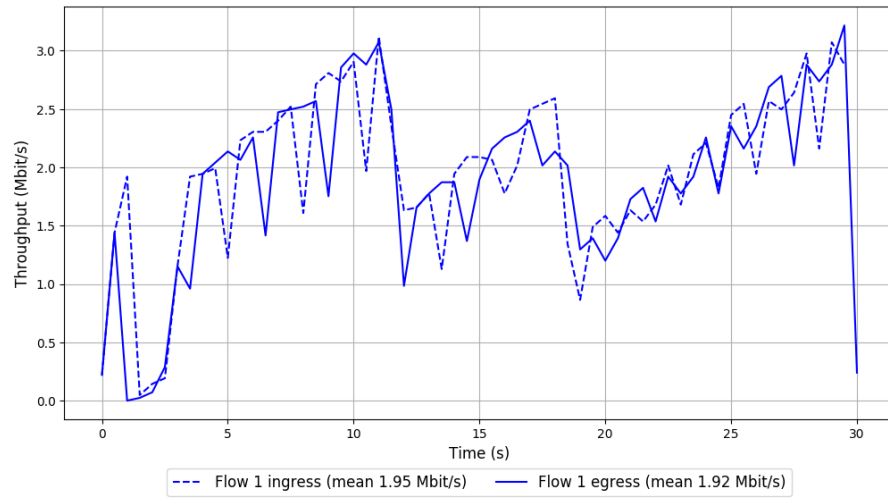
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 138.236 ms

Loss rate: 1.68%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-11 18:13:25

End at: 2017-08-11 18:13:55

Below is generated by plot.py at 2017-08-11 20:19:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 137.570 ms

Loss rate: 0.34%

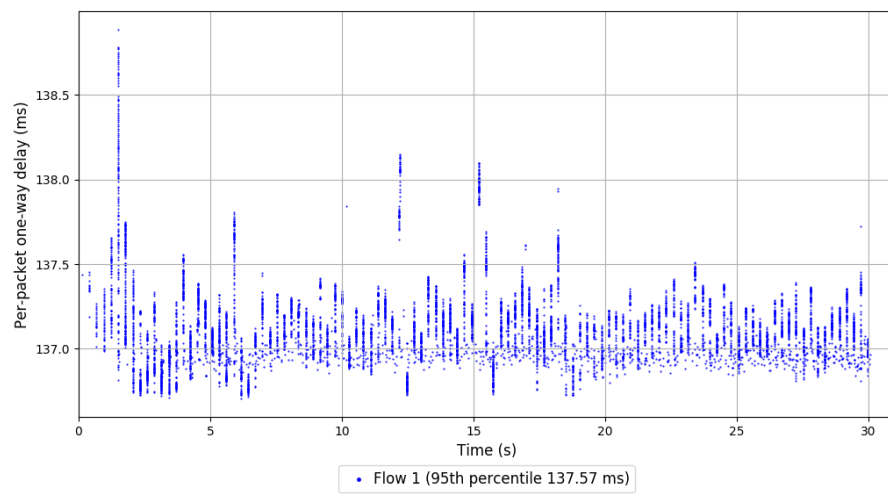
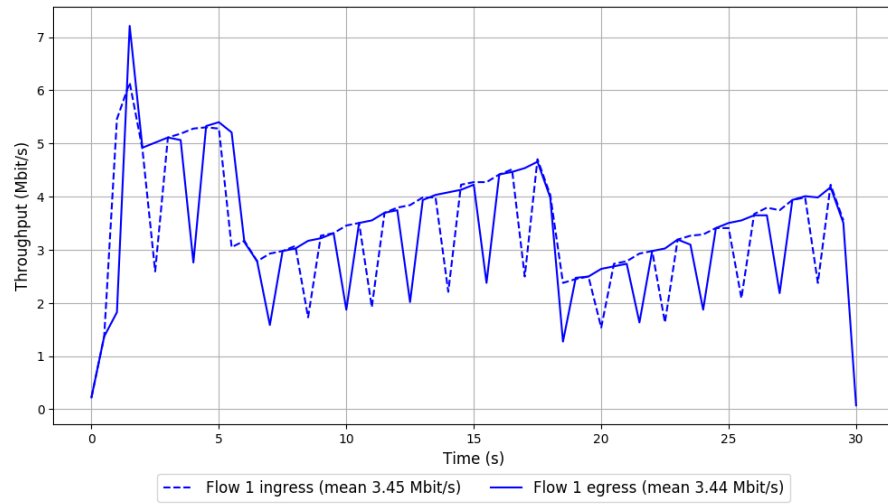
-- Flow 1:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 137.570 ms

Loss rate: 0.34%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-08-11 18:25:03

End at: 2017-08-11 18:25:33

Below is generated by plot.py at 2017-08-11 20:19:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 137.231 ms

Loss rate: 2.53%

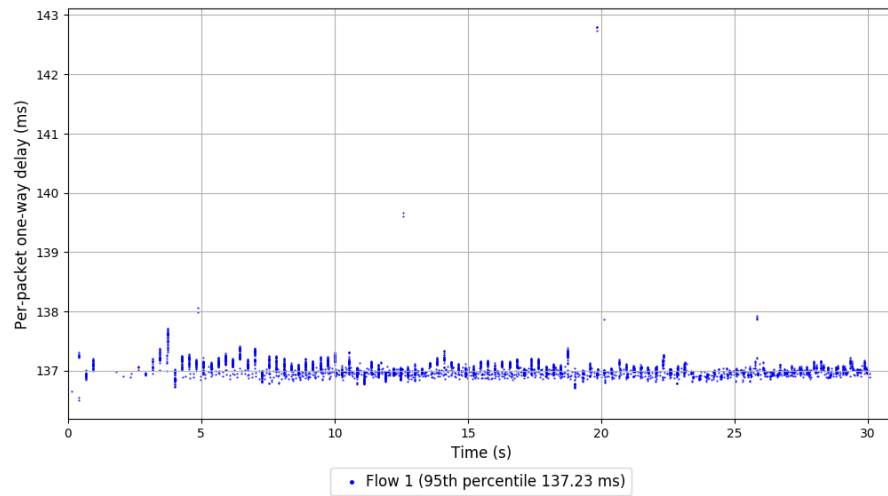
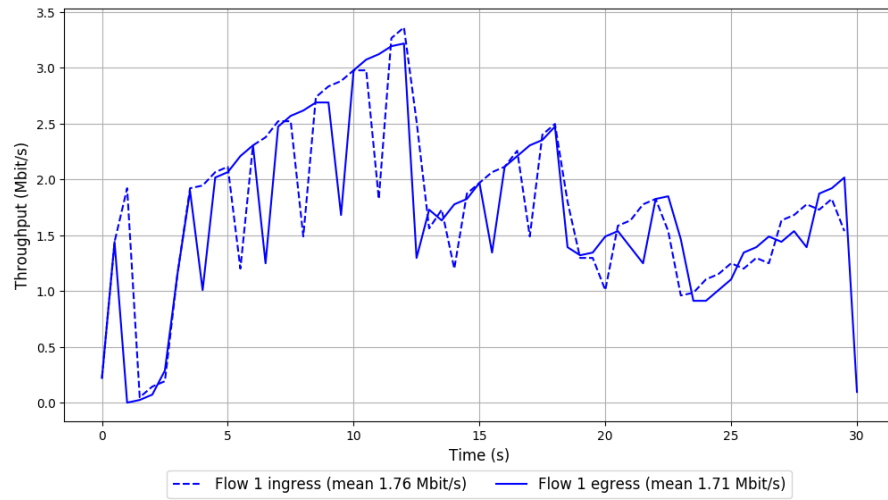
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 137.231 ms

Loss rate: 2.53%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-11 18:36:48

End at: 2017-08-11 18:37:18

Below is generated by plot.py at 2017-08-11 20:19:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 138.047 ms

Loss rate: 3.14%

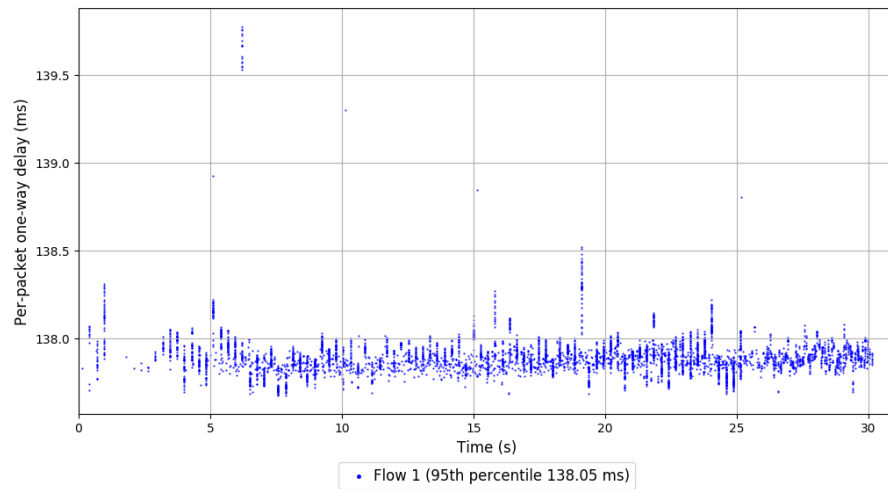
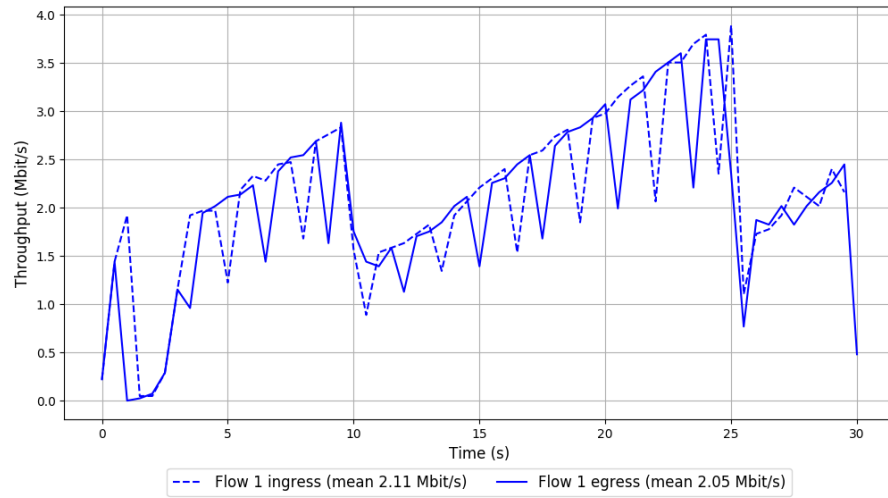
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 138.047 ms

Loss rate: 3.14%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-08-11 18:47:55

End at: 2017-08-11 18:48:25

Below is generated by plot.py at 2017-08-11 20:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 138.022 ms

Loss rate: 1.99%

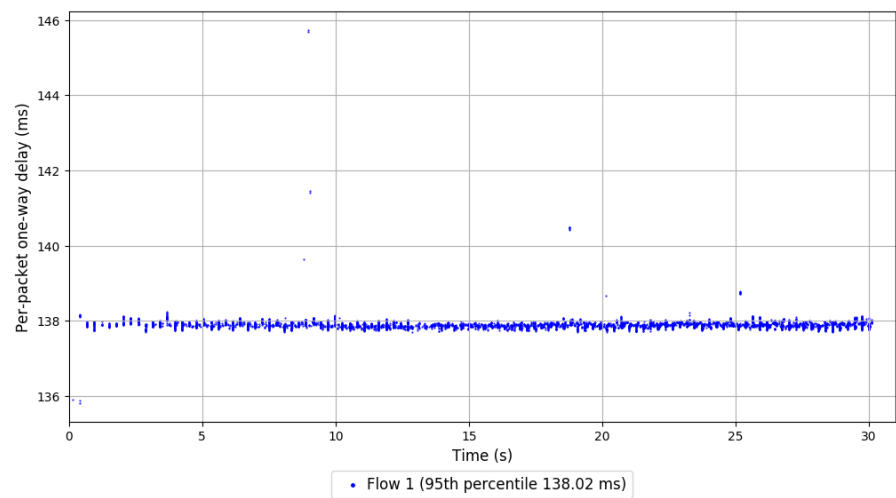
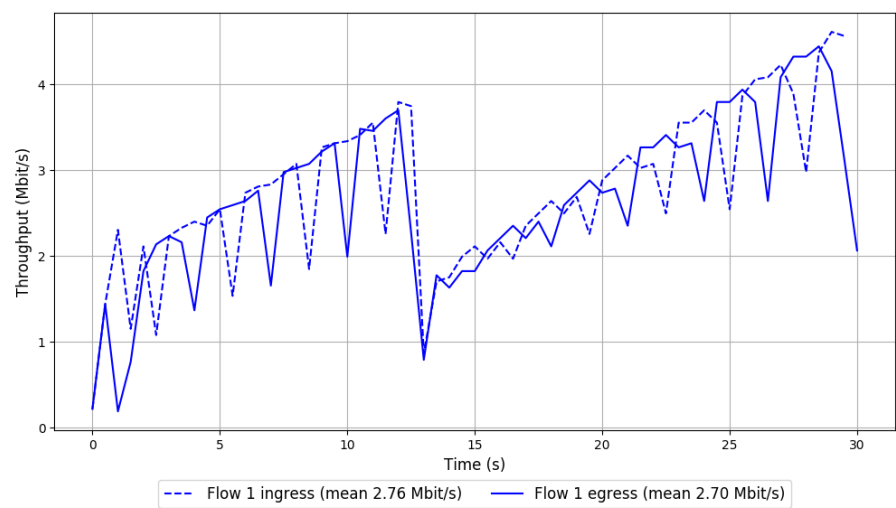
-- Flow 1:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 138.022 ms

Loss rate: 1.99%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-11 18:58:59

End at: 2017-08-11 18:59:29

Below is generated by plot.py at 2017-08-11 20:19:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 138.260 ms

Loss rate: 2.95%

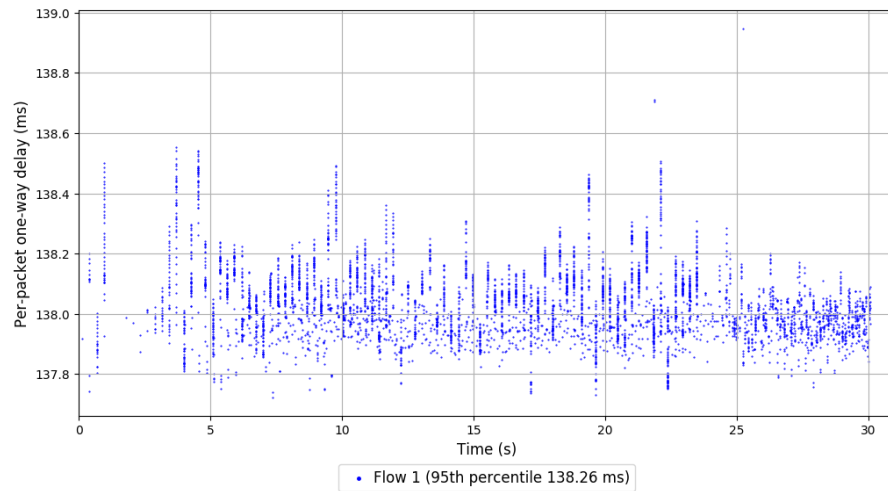
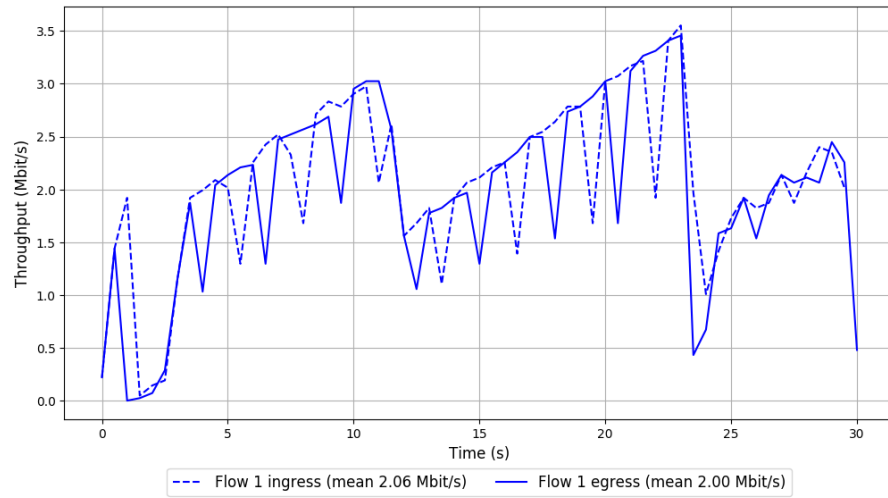
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 138.260 ms

Loss rate: 2.95%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-08-11 19:10:03

End at: 2017-08-11 19:10:33

Below is generated by plot.py at 2017-08-11 20:19:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 137.299 ms

Loss rate: 1.70%

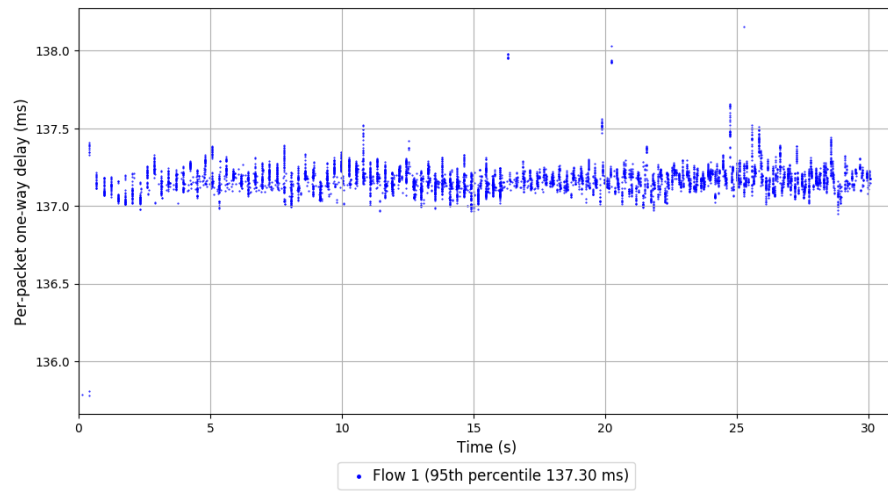
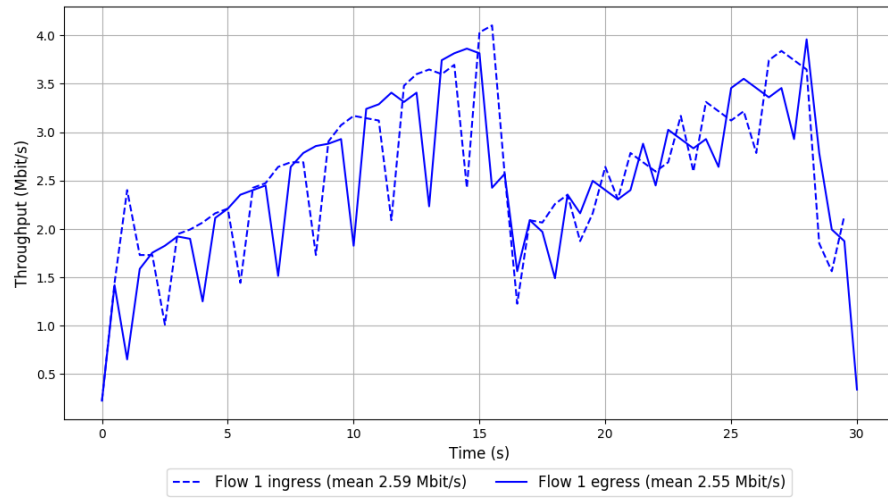
-- Flow 1:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 137.299 ms

Loss rate: 1.70%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-08-11 17:24:17

End at: 2017-08-11 17:24:47

Below is generated by plot.py at 2017-08-11 20:19:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 137.549 ms

Loss rate: 79.99%

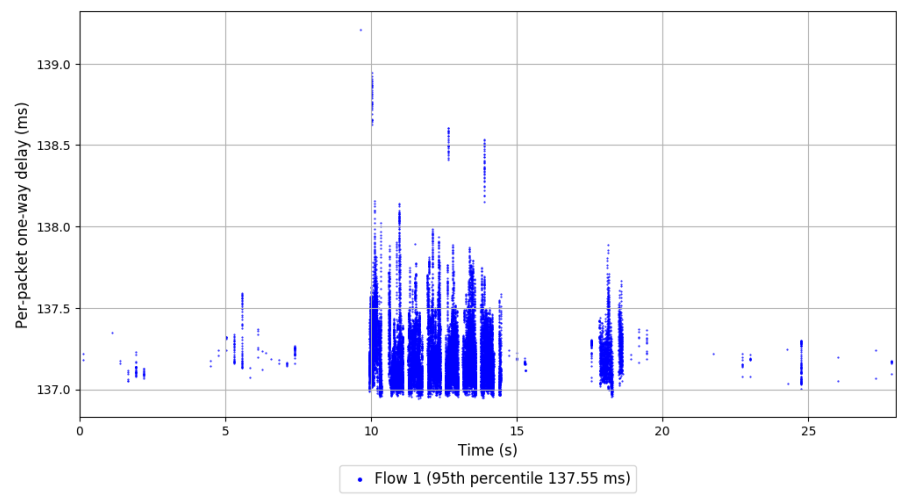
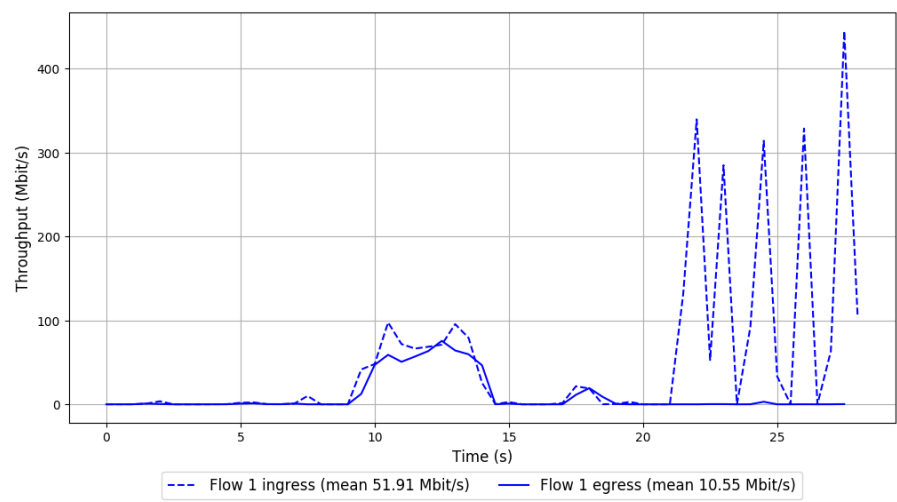
-- Flow 1:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 137.549 ms

Loss rate: 79.99%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-11 17:35:52

End at: 2017-08-11 17:36:22

Below is generated by plot.py at 2017-08-11 20:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 138.254 ms

Loss rate: 87.76%

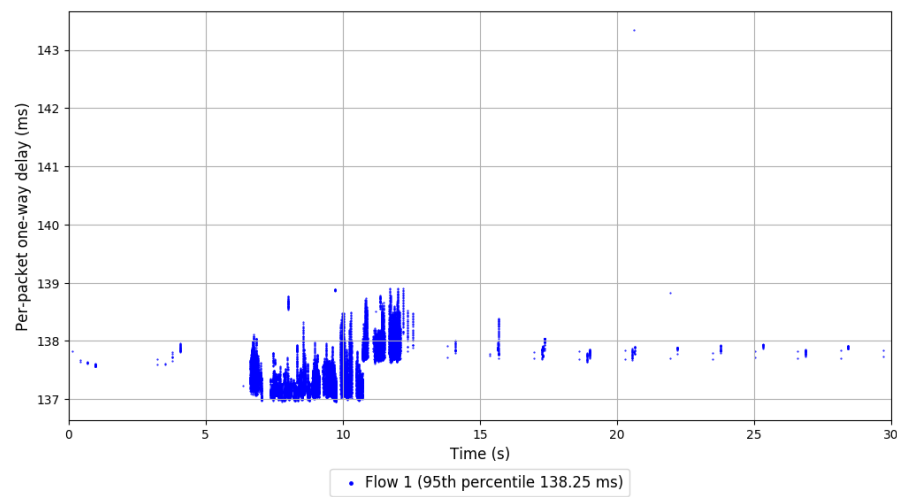
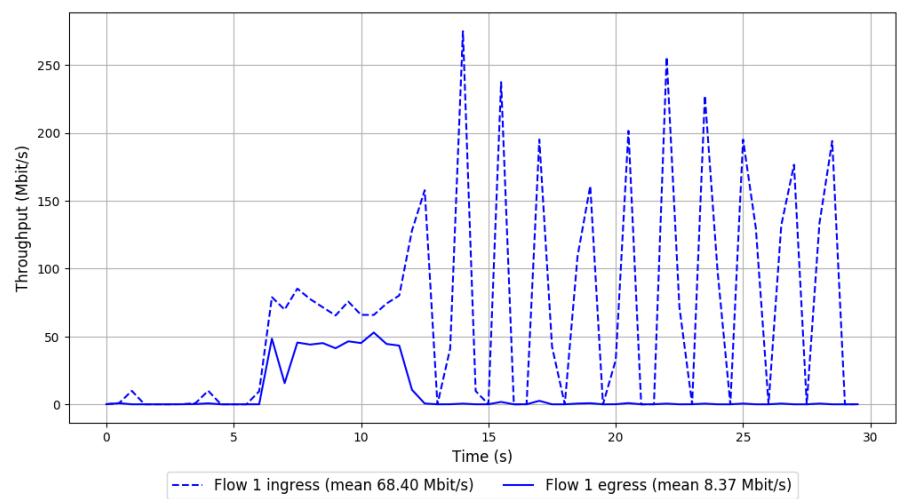
-- Flow 1:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 138.254 ms

Loss rate: 87.76%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-11 17:47:06

End at: 2017-08-11 17:47:36

Below is generated by plot.py at 2017-08-11 20:19:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.27 Mbit/s

95th percentile per-packet one-way delay: 138.754 ms

Loss rate: 50.01%

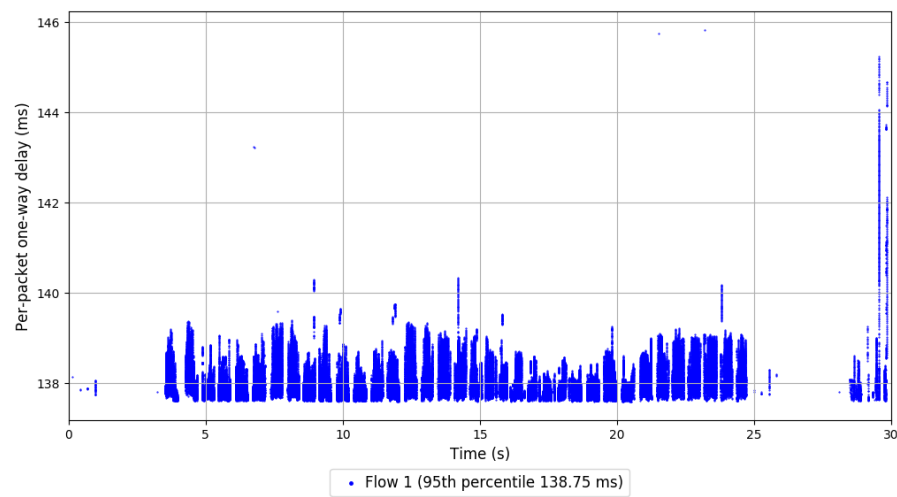
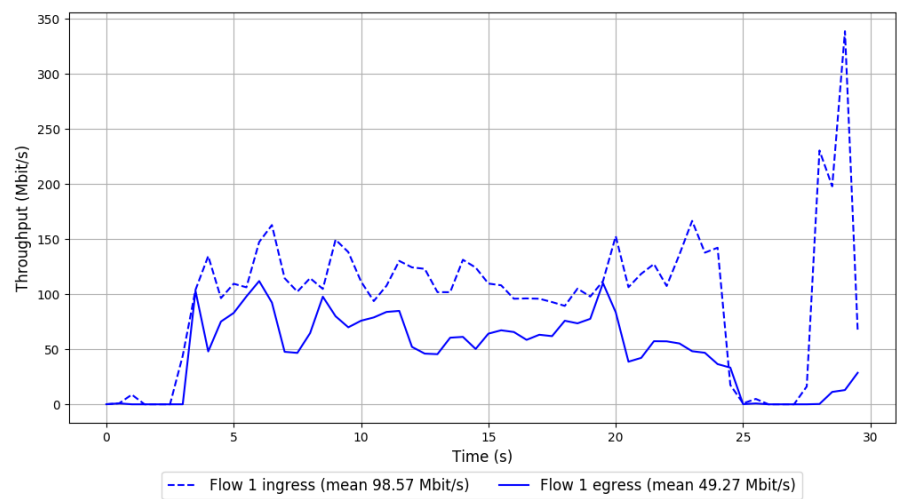
-- Flow 1:

Average throughput: 49.27 Mbit/s

95th percentile per-packet one-way delay: 138.754 ms

Loss rate: 50.01%

Run 3: Report of Verus — Data Link

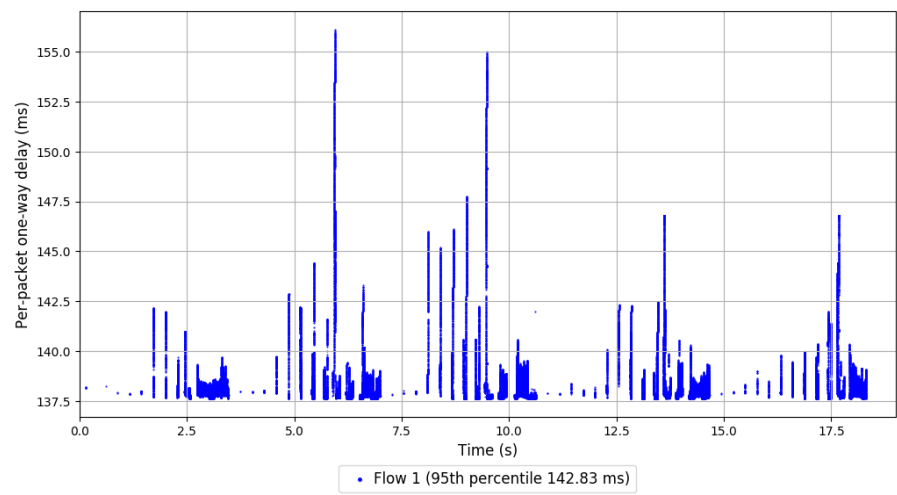
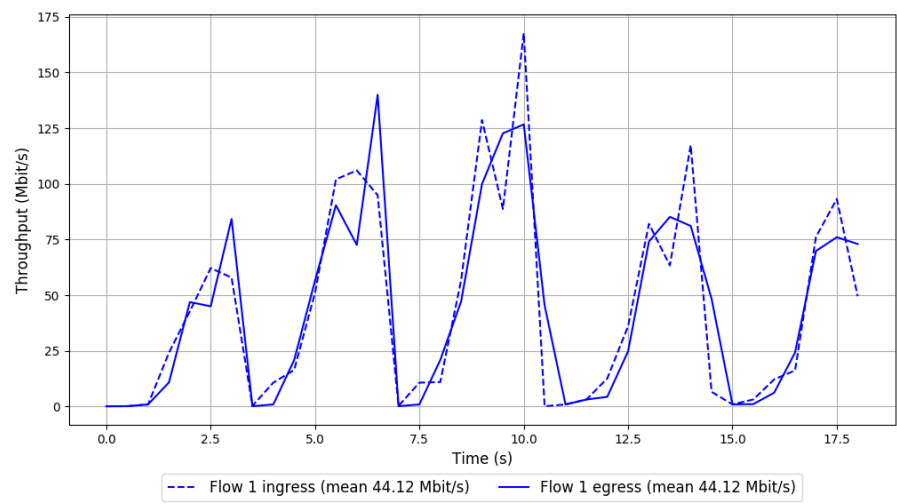


Run 4: Statistics of Verus

Start at: 2017-08-11 17:58:24

End at: 2017-08-11 17:58:55

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-11 18:09:46

End at: 2017-08-11 18:10:16

Below is generated by plot.py at 2017-08-11 20:20:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 137.548 ms

Loss rate: 48.84%

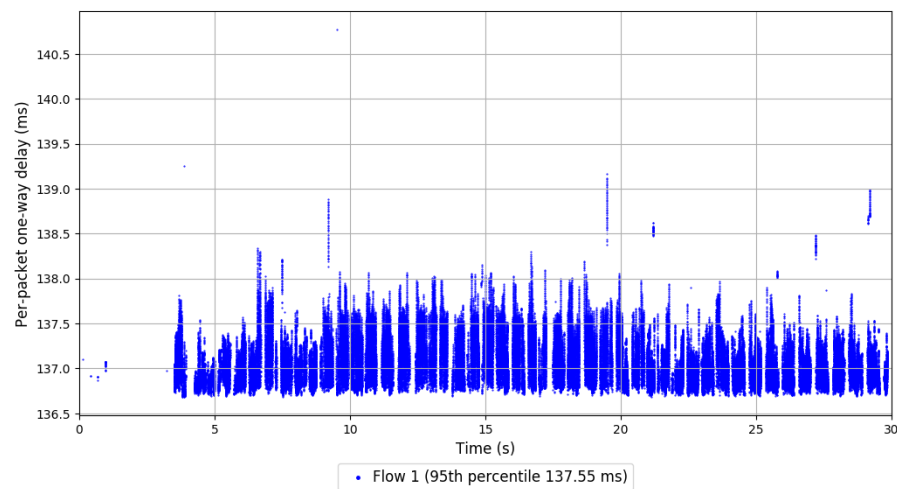
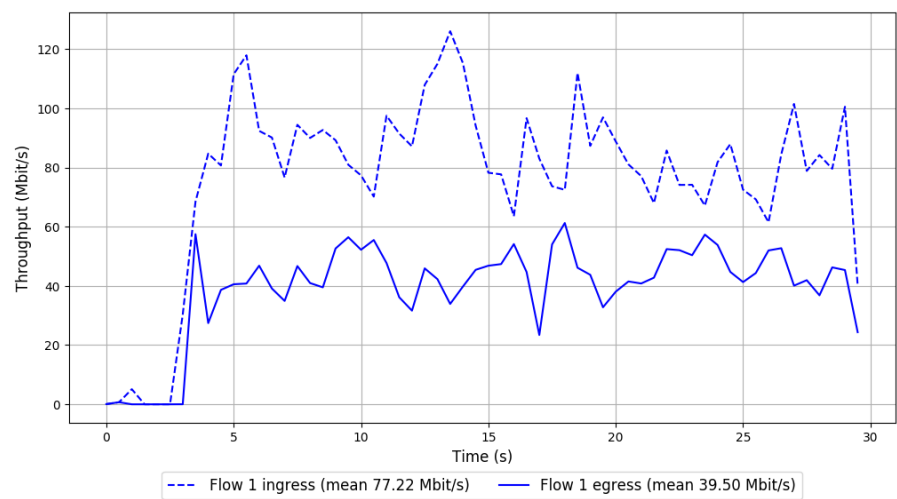
-- Flow 1:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 137.548 ms

Loss rate: 48.84%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-08-11 18:21:16

End at: 2017-08-11 18:21:46

Below is generated by plot.py at 2017-08-11 20:20:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.54 Mbit/s

95th percentile per-packet one-way delay: 225.073 ms

Loss rate: 1.79%

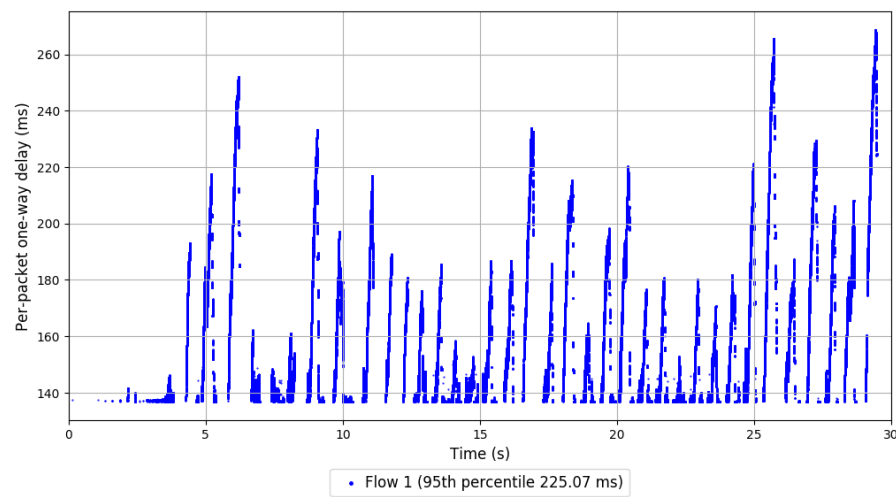
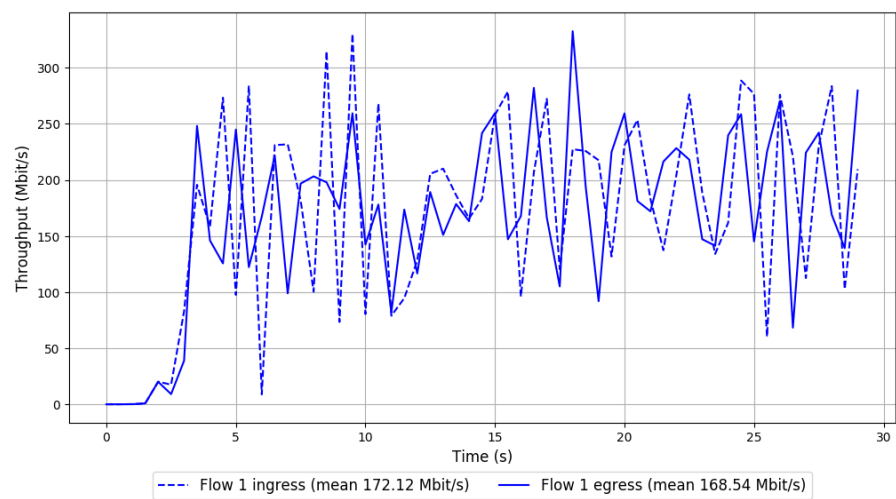
-- Flow 1:

Average throughput: 168.54 Mbit/s

95th percentile per-packet one-way delay: 225.073 ms

Loss rate: 1.79%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-11 18:33:10

End at: 2017-08-11 18:33:40

Below is generated by plot.py at 2017-08-11 20:20:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 216.832 ms

Loss rate: 21.51%

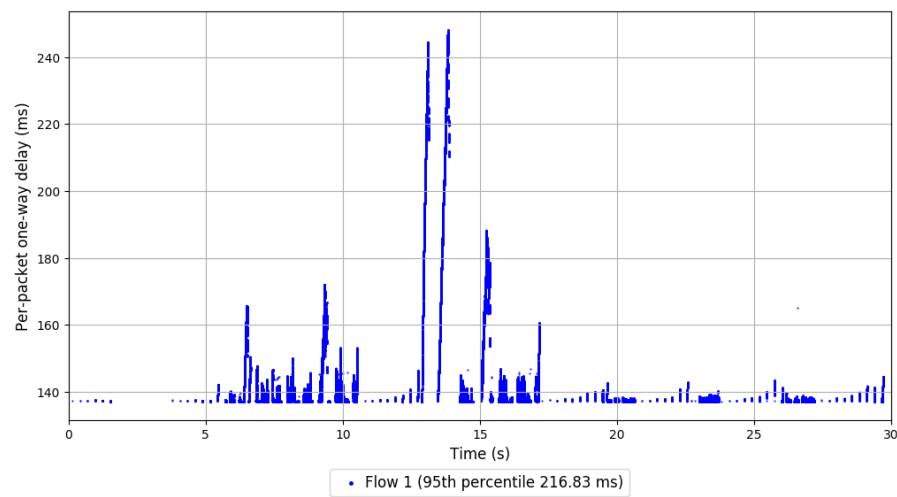
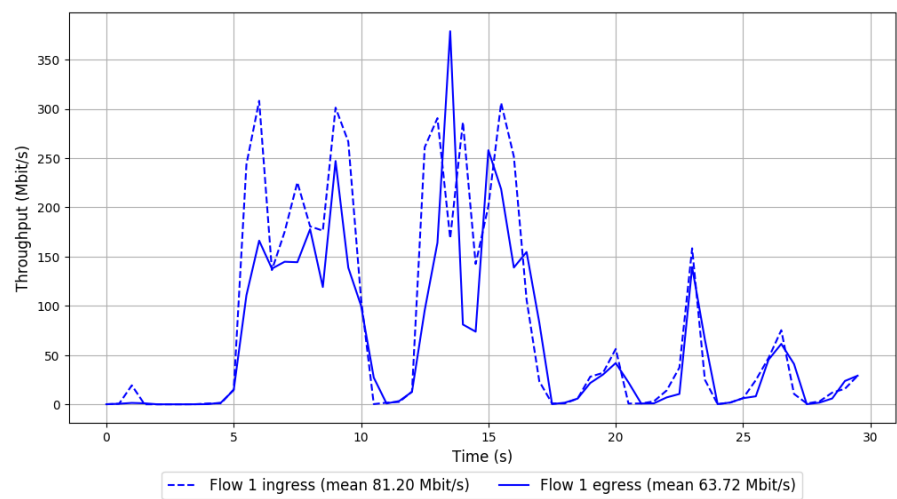
-- Flow 1:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 216.832 ms

Loss rate: 21.51%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-11 18:44:21

End at: 2017-08-11 18:44:51

Below is generated by plot.py at 2017-08-11 20:20:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 138.254 ms

Loss rate: 91.25%

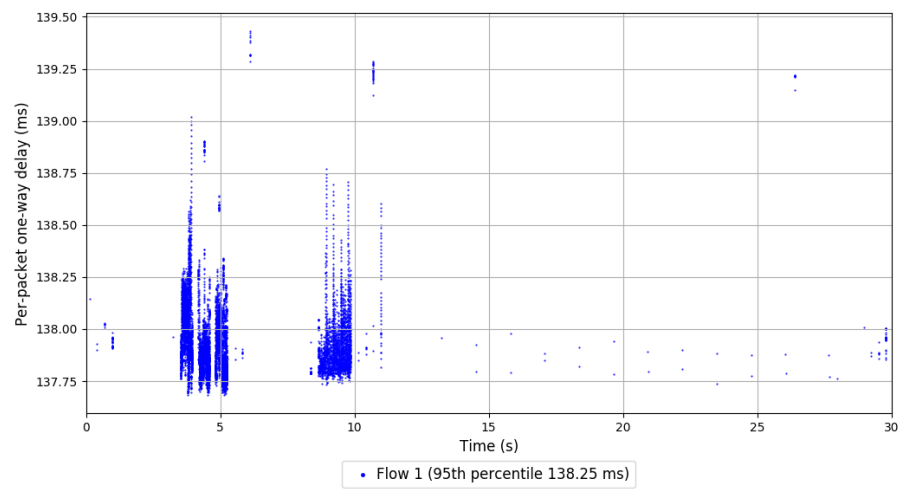
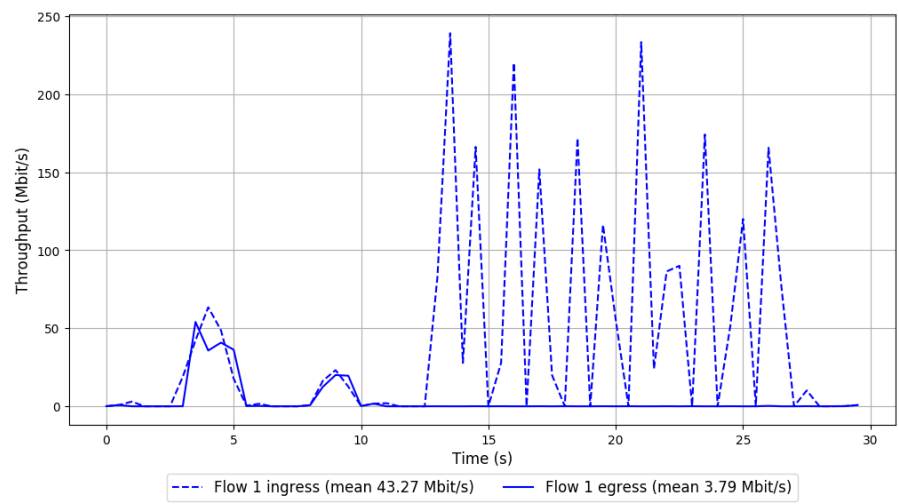
-- Flow 1:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 138.254 ms

Loss rate: 91.25%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-11 18:55:19

End at: 2017-08-11 18:55:49

Below is generated by plot.py at 2017-08-11 20:20:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.80 Mbit/s

95th percentile per-packet one-way delay: 224.316 ms

Loss rate: 4.22%

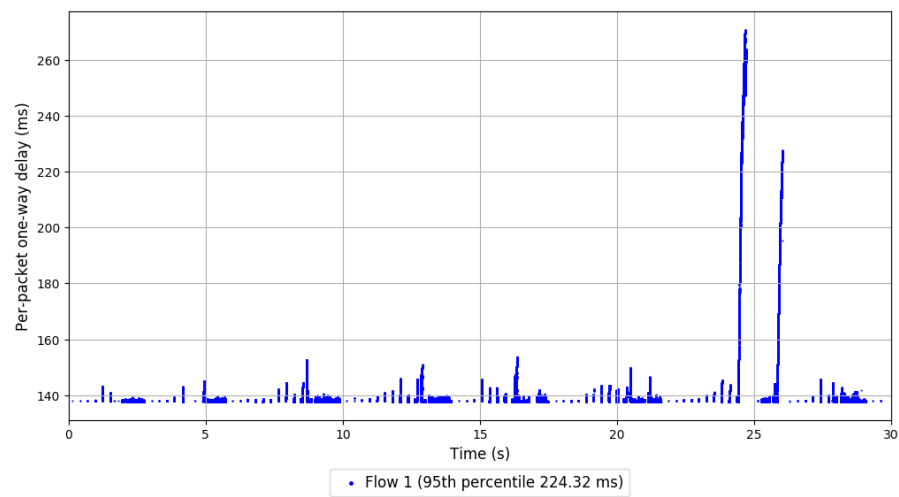
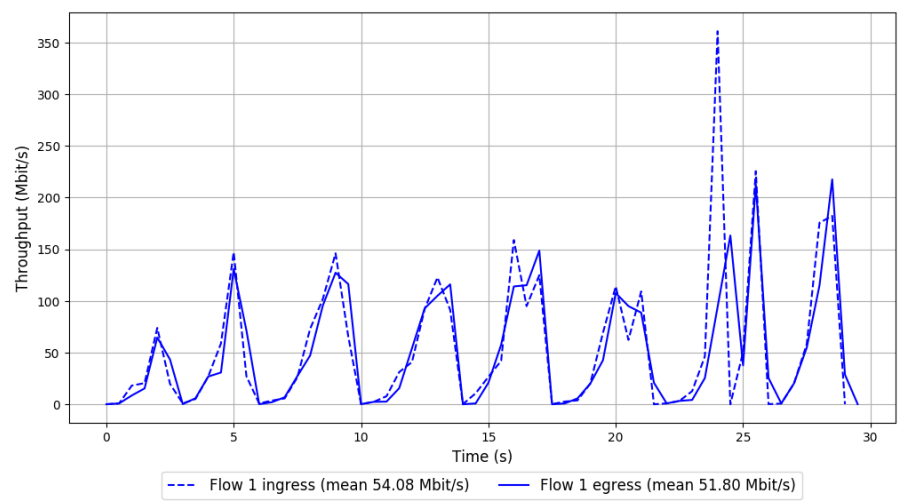
-- Flow 1:

Average throughput: 51.80 Mbit/s

95th percentile per-packet one-way delay: 224.316 ms

Loss rate: 4.22%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-11 19:06:29

End at: 2017-08-11 19:06:59

Below is generated by plot.py at 2017-08-11 20:20:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.84 Mbit/s

95th percentile per-packet one-way delay: 137.312 ms

Loss rate: 95.33%

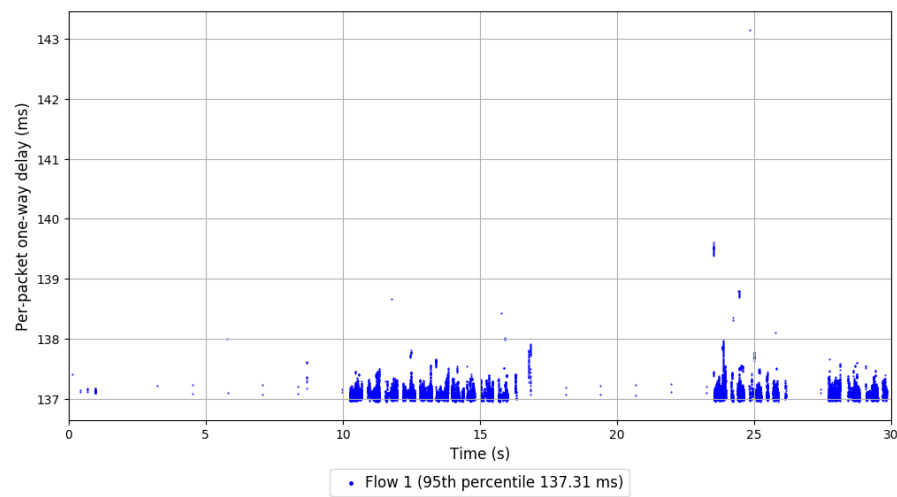
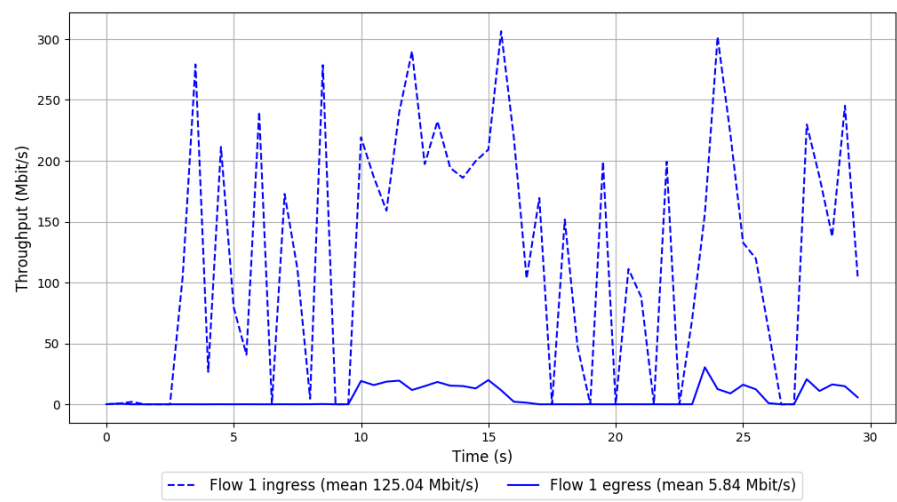
-- Flow 1:

Average throughput: 5.84 Mbit/s

95th percentile per-packet one-way delay: 137.312 ms

Loss rate: 95.33%

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-08-11 17:26:27

End at: 2017-08-11 17:26:57

Below is generated by plot.py at 2017-08-11 20:20:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 135.870 ms

Loss rate: 0.00%

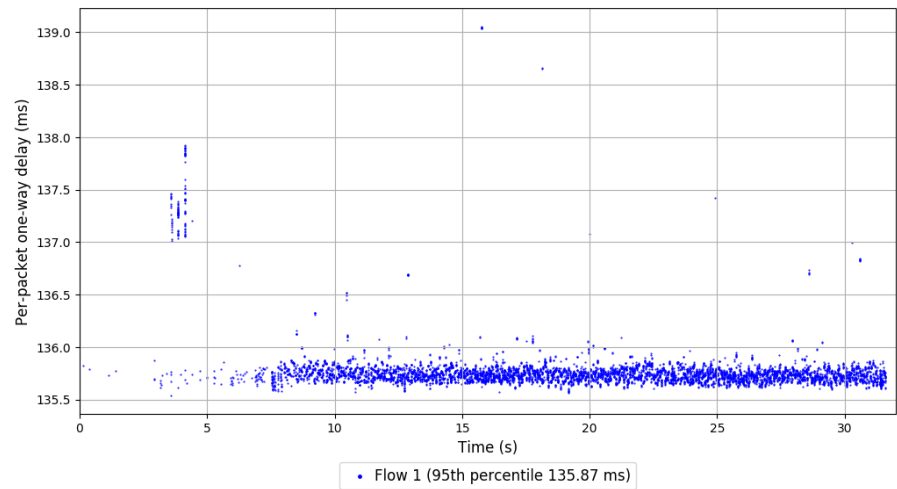
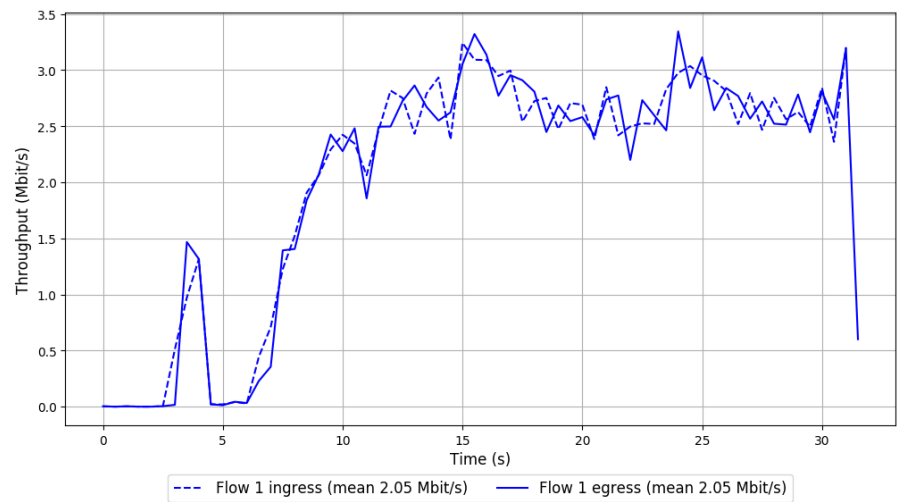
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 135.870 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-08-11 17:38:02

End at: 2017-08-11 17:38:32

Below is generated by plot.py at 2017-08-11 20:20:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 135.839 ms

Loss rate: 0.00%

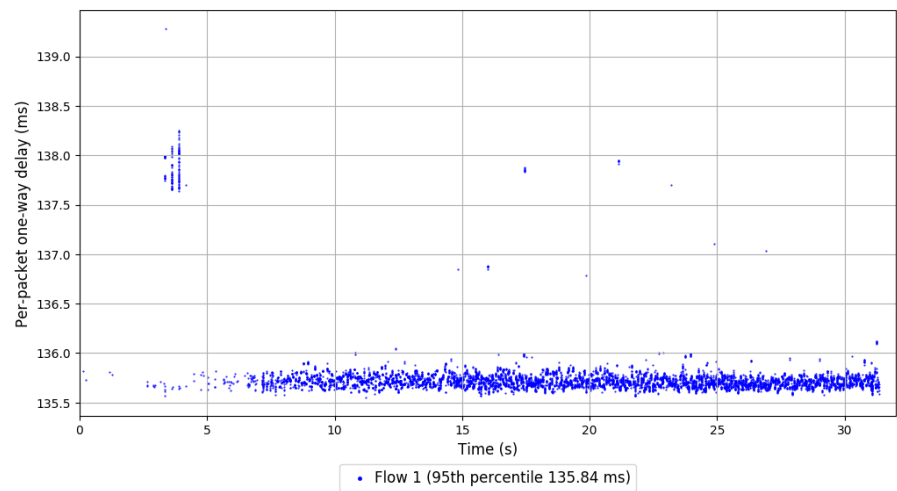
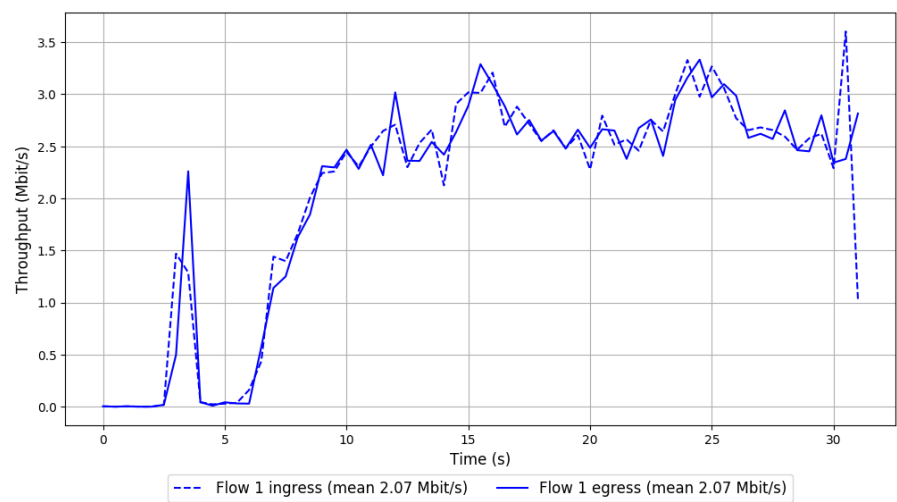
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 135.839 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-08-11 17:49:18

End at: 2017-08-11 17:49:49

Below is generated by plot.py at 2017-08-11 20:20:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.275 ms

Loss rate: 0.00%

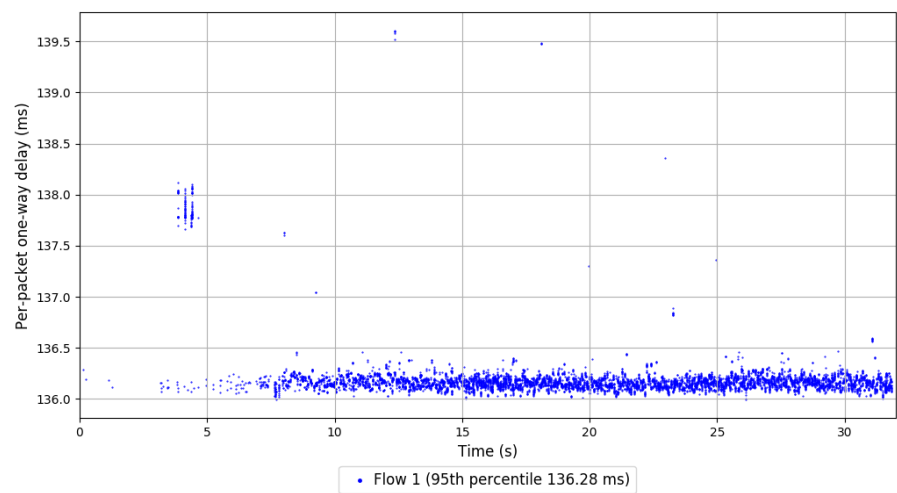
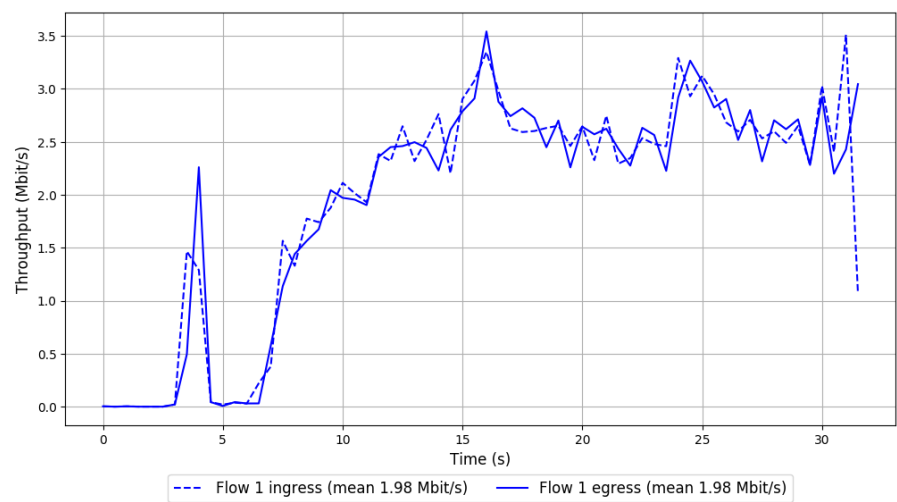
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.275 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-11 18:00:38

End at: 2017-08-11 18:01:08

Below is generated by plot.py at 2017-08-11 20:20:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 137.913 ms

Loss rate: 0.00%

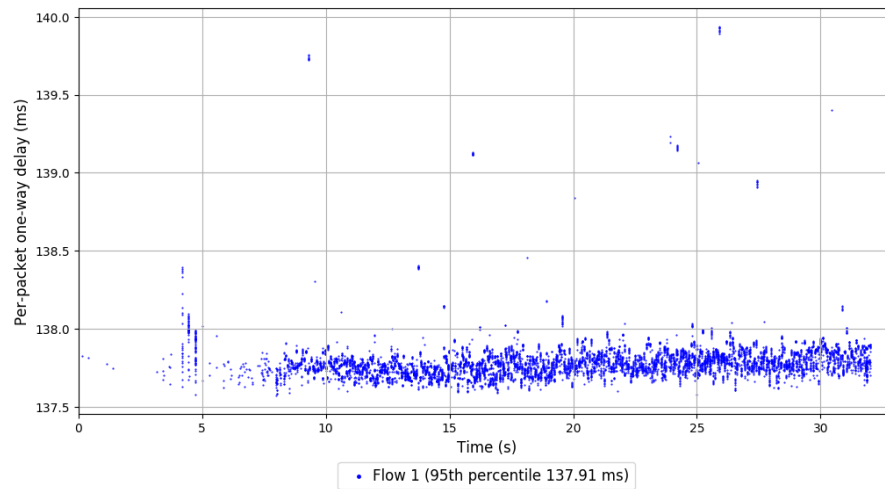
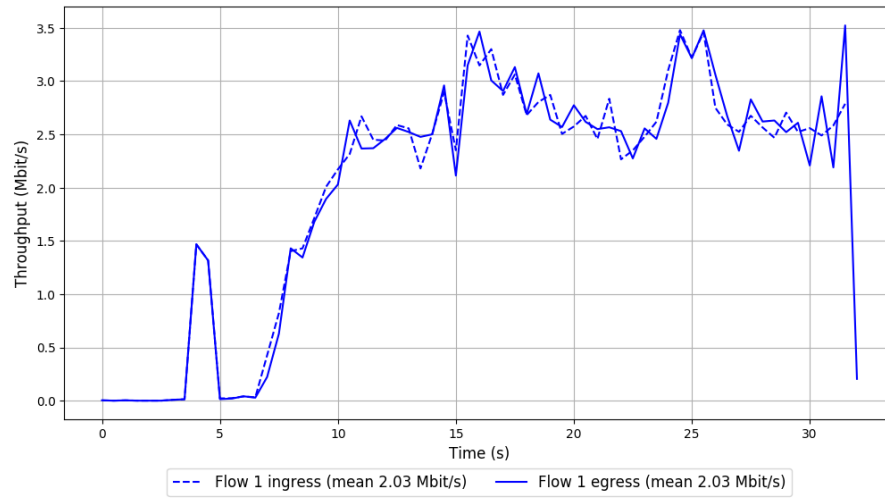
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 137.913 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-08-11 18:11:58

End at: 2017-08-11 18:12:28

Below is generated by plot.py at 2017-08-11 20:20:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 137.738 ms

Loss rate: 0.00%

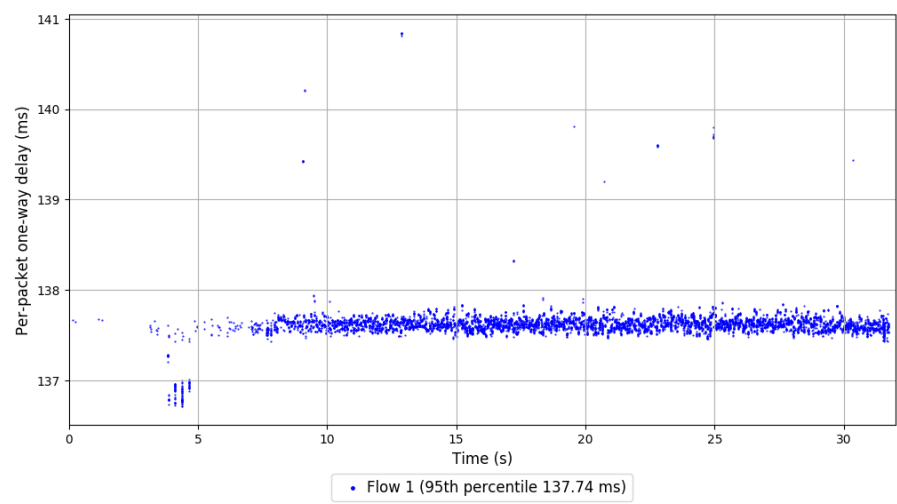
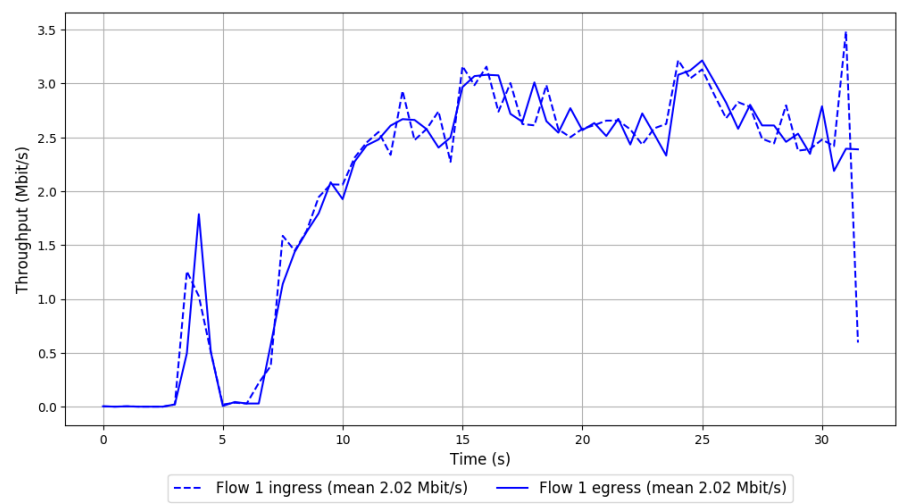
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 137.738 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-11 18:23:37

End at: 2017-08-11 18:24:07

Below is generated by plot.py at 2017-08-11 20:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 135.831 ms

Loss rate: 0.01%

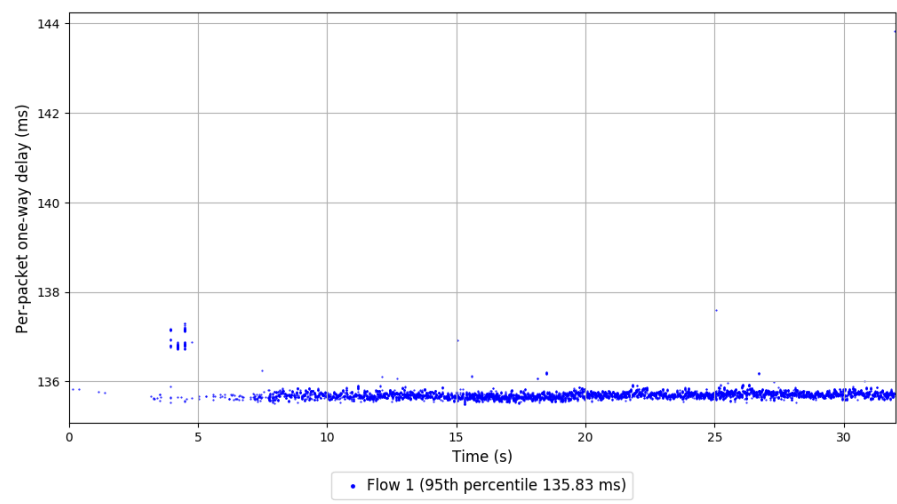
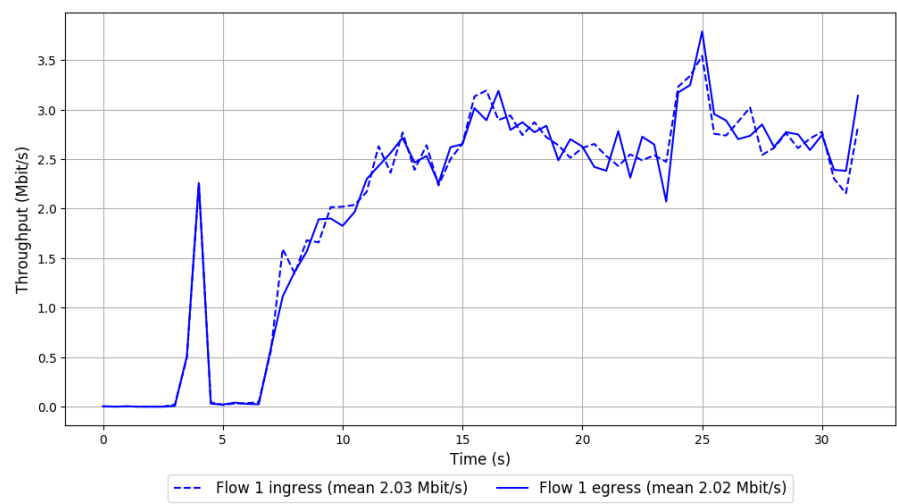
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 135.831 ms

Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-11 18:35:23

End at: 2017-08-11 18:35:53

Below is generated by plot.py at 2017-08-11 20:20:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 136.775 ms

Loss rate: 0.00%

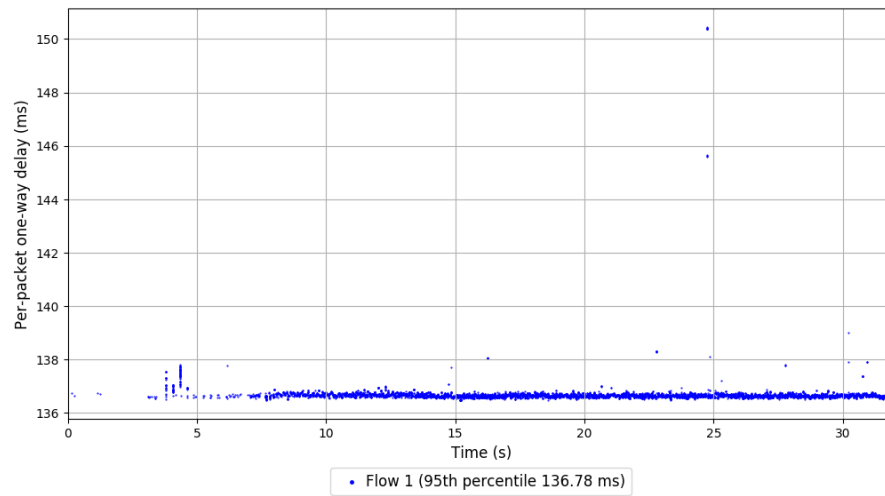
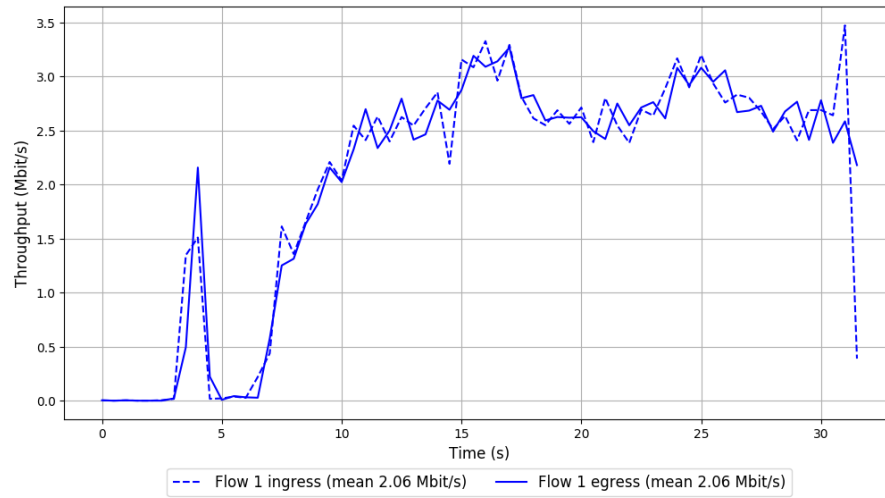
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 136.775 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-11 18:46:30

End at: 2017-08-11 18:47:00

Below is generated by plot.py at 2017-08-11 20:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 135.561 ms

Loss rate: 0.00%

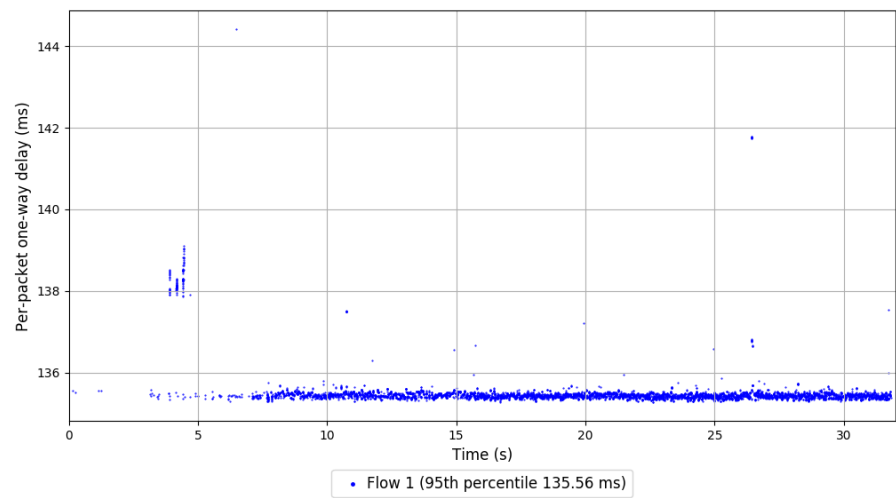
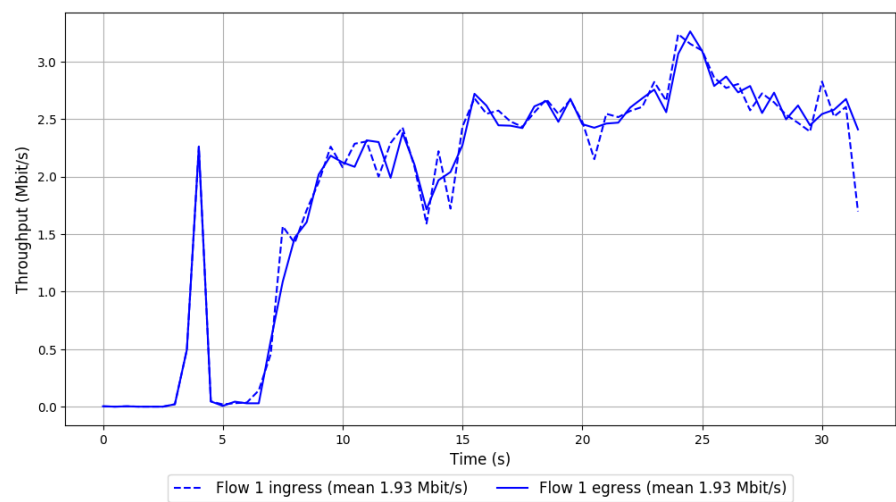
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 135.561 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-08-11 18:57:35

End at: 2017-08-11 18:58:05

Below is generated by plot.py at 2017-08-11 20:20:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 136.305 ms

Loss rate: 0.00%

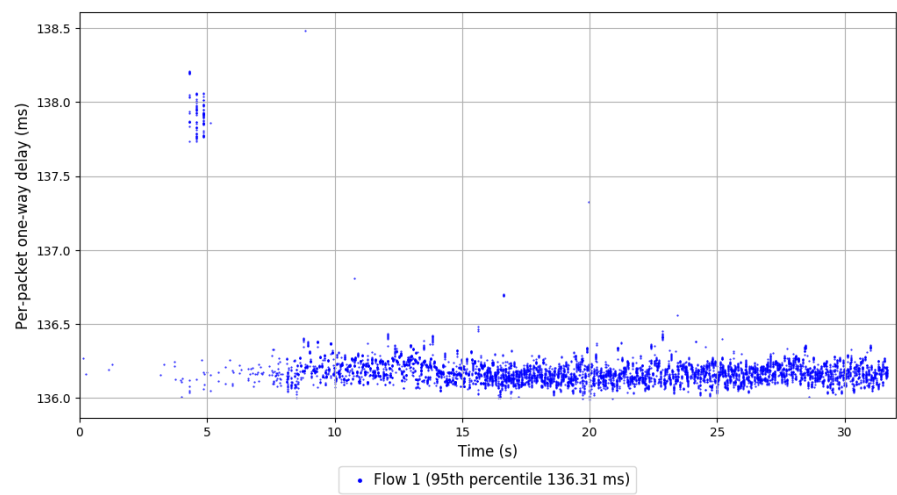
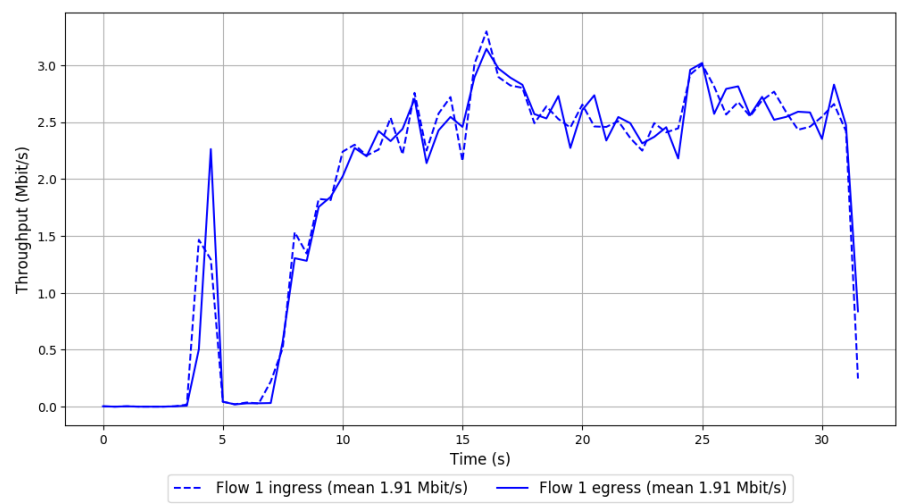
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 136.305 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-11 19:08:39

End at: 2017-08-11 19:09:09

Below is generated by plot.py at 2017-08-11 20:20:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 135.485 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 135.485 ms

Loss rate: 0.02%

Run 10: Report of WebRTC media — Data Link

