

Pantheon Report

Generated at 2017-09-18 13:35:56 (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.

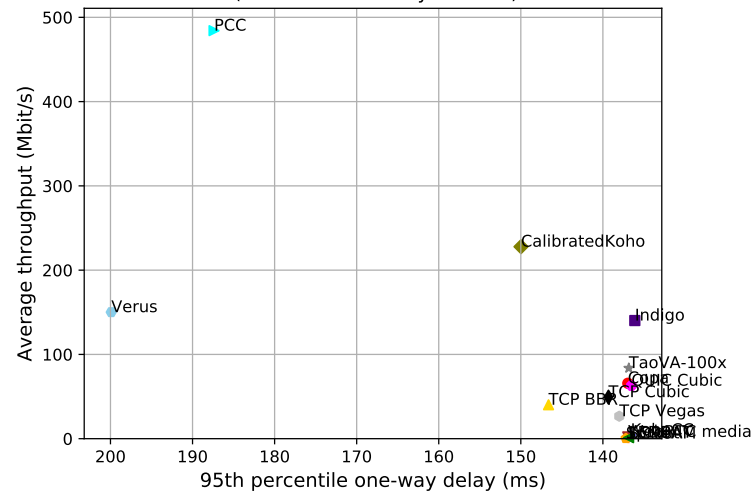
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

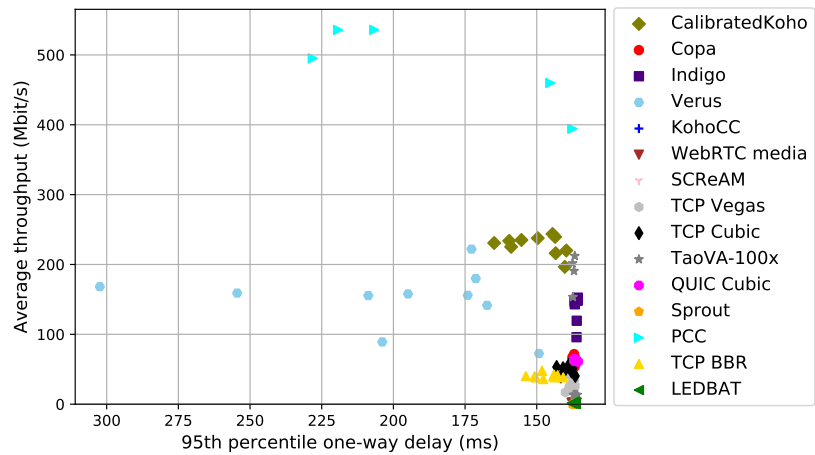
Git summary:

```
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE 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	40.28	146.62	0.01
CalibratedKoho	10	227.84	149.98	0.03
Copa	9	65.75	136.96	0.00
TCP Cubic	10	49.31	139.32	0.01
Indigo	10	140.20	136.11	0.00
KohoCC	10	4.22	136.62	0.00
LEDBAT	10	1.18	136.86	0.07
PCC	5	484.19	187.38	1.12
QUIC Cubic	7	62.89	136.53	0.00
SCReAM	10	0.22	136.86	0.00
Sprout	10	0.40	137.20	0.00
TaoVA-100x	10	83.79	136.84	0.00
TCP Vegas	10	26.65	138.01	0.01
Verus	10	150.15	199.91	1.58
WebRTC media	10	2.11	136.97	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-09-18 10:28:42

End at: 2017-09-18 10:29:13

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.45 Mbit/s

95th percentile per-packet one-way delay: 142.737 ms

Loss rate: 0.01%

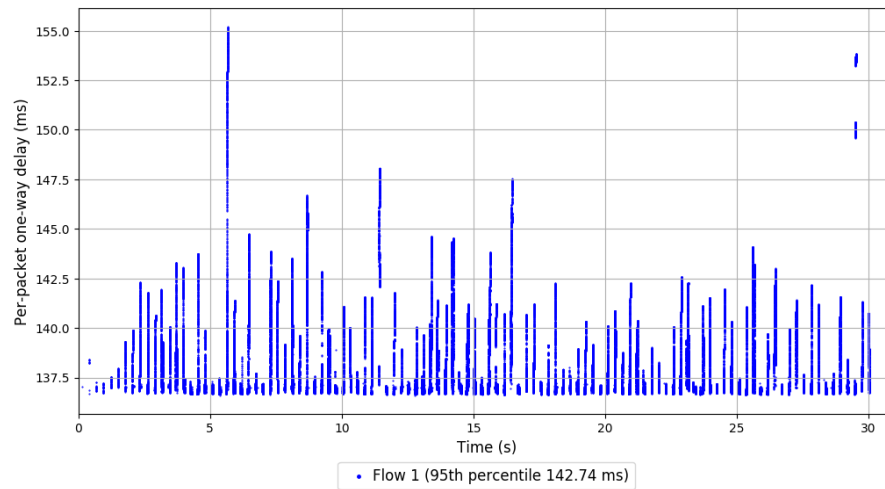
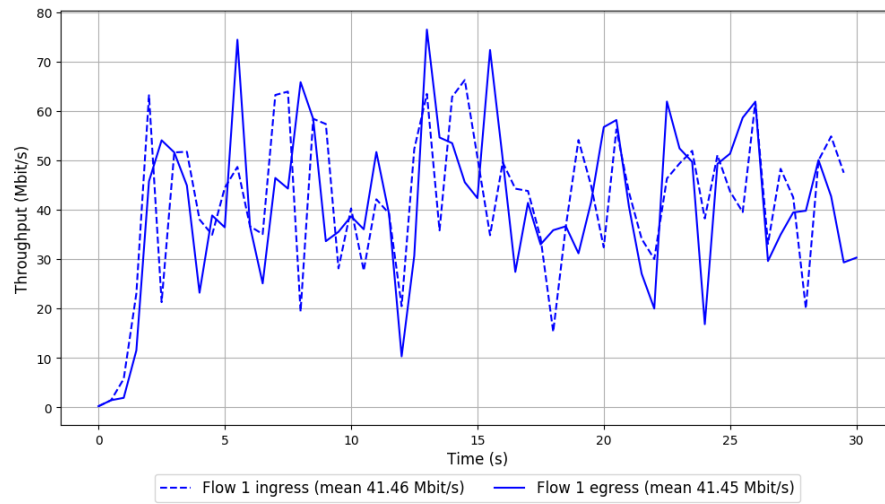
-- Flow 1:

Average throughput: 41.45 Mbit/s

95th percentile per-packet one-way delay: 142.737 ms

Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-18 10:40:37

End at: 2017-09-18 10:41:07

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.41 Mbit/s

95th percentile per-packet one-way delay: 140.751 ms

Loss rate: 0.01%

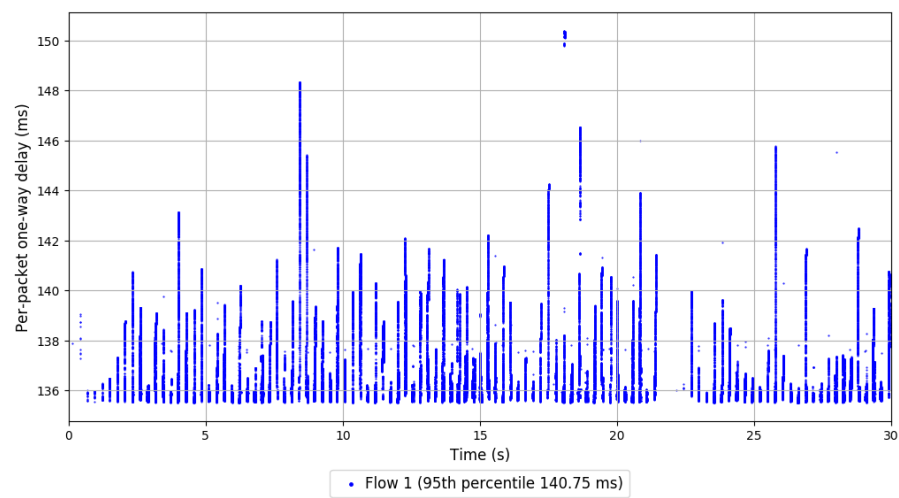
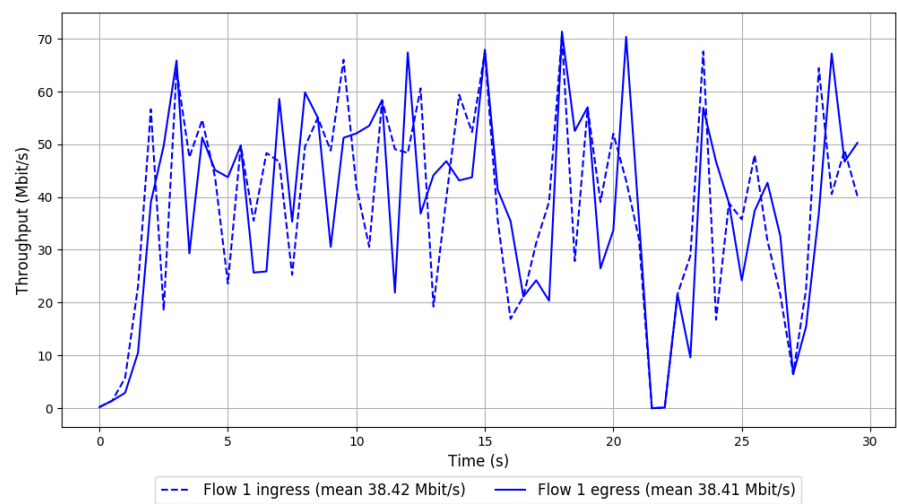
-- Flow 1:

Average throughput: 38.41 Mbit/s

95th percentile per-packet one-way delay: 140.751 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-18 10:53:20

End at: 2017-09-18 10:53:50

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.82 Mbit/s

95th percentile per-packet one-way delay: 148.164 ms

Loss rate: 0.01%

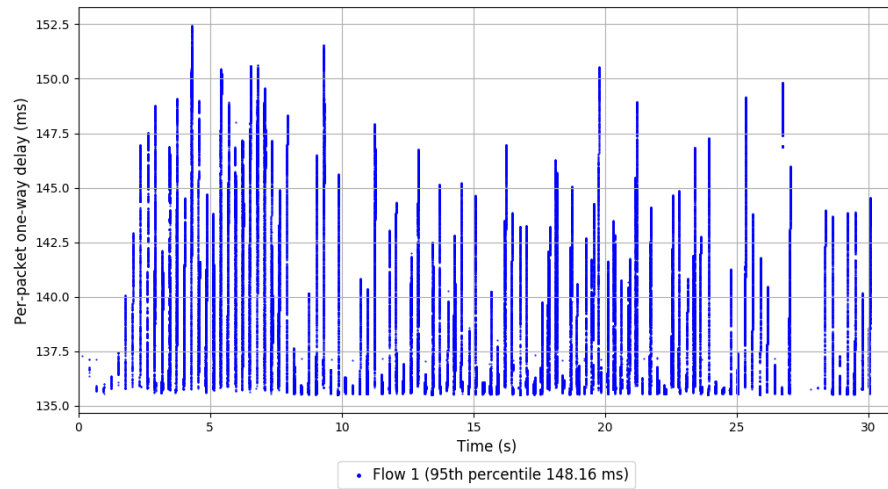
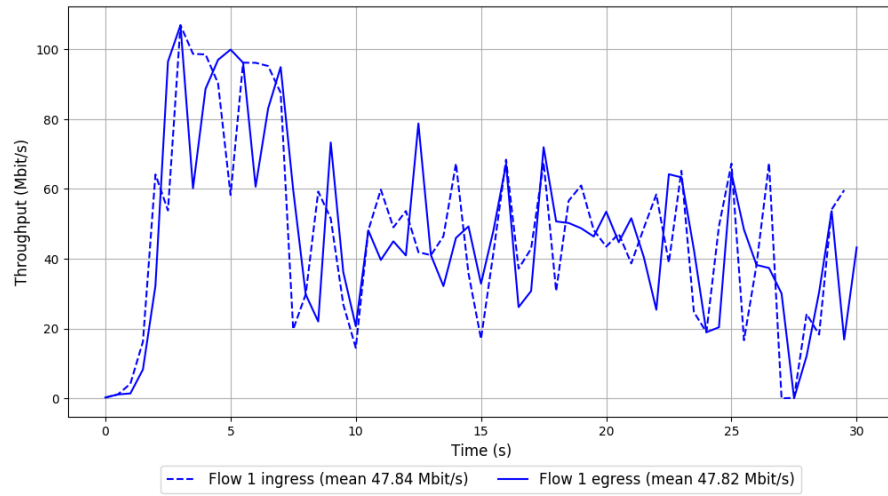
-- Flow 1:

Average throughput: 47.82 Mbit/s

95th percentile per-packet one-way delay: 148.164 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

End at: 2017-09-18 11:05:41

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.45 Mbit/s

95th percentile per-packet one-way delay: 143.740 ms

Loss rate: 0.01%

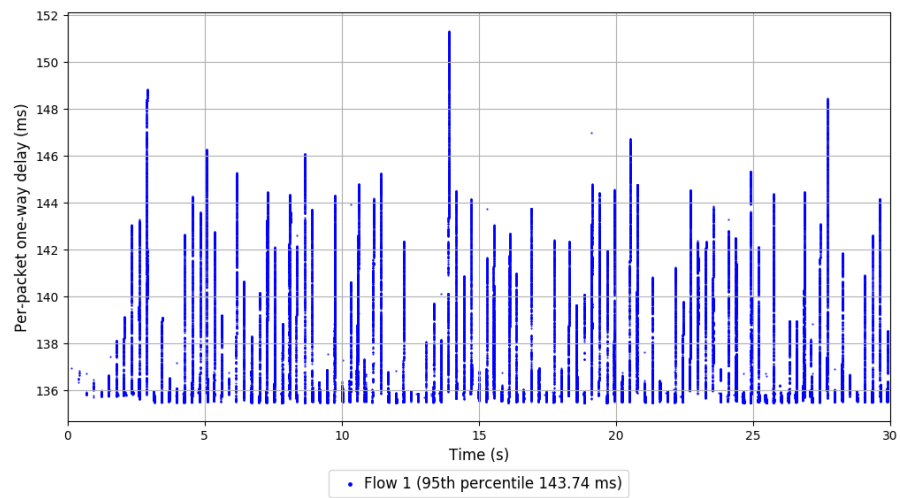
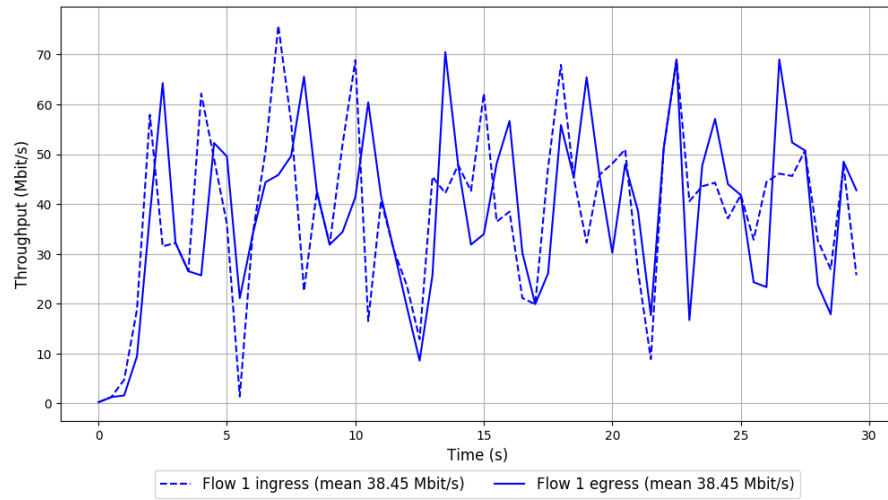
-- Flow 1:

Average throughput: 38.45 Mbit/s

95th percentile per-packet one-way delay: 143.740 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-18 11:17:47

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 150.754 ms

Loss rate: 0.00%

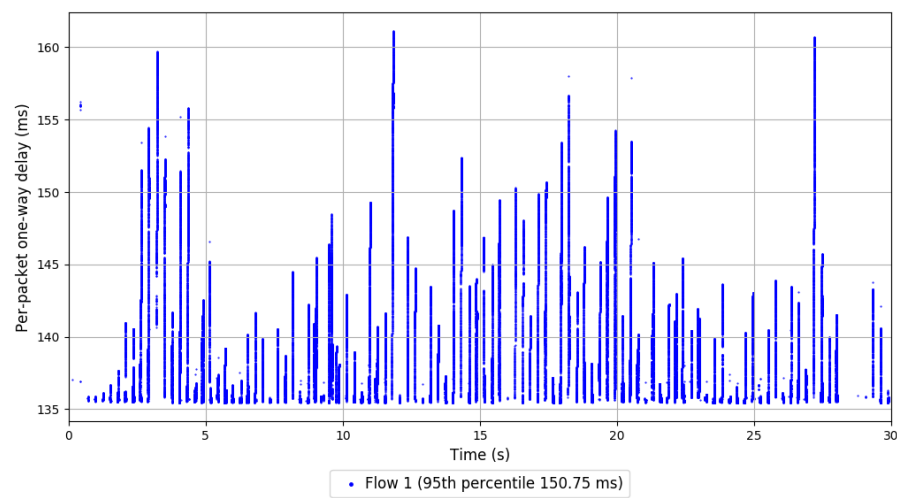
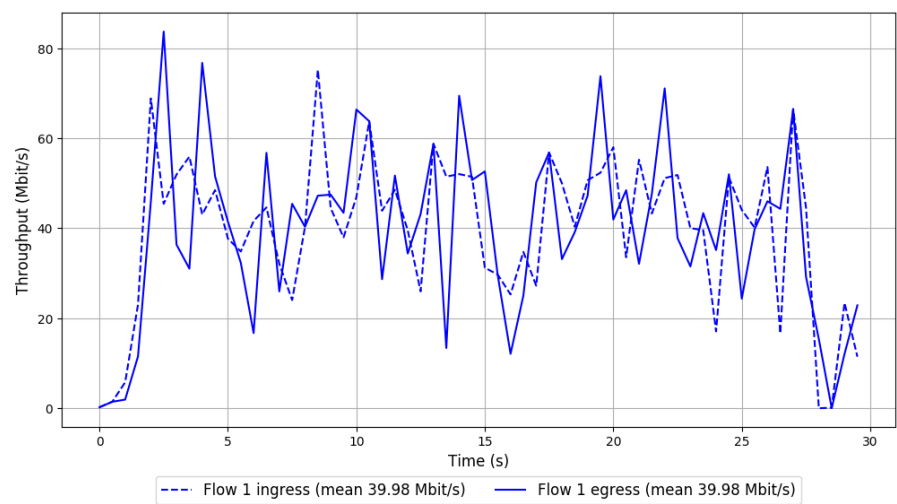
-- Flow 1:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 150.754 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-18 11:29:43

End at: 2017-09-18 11:30:13

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.98 Mbit/s

95th percentile per-packet one-way delay: 147.731 ms

Loss rate: 0.01%

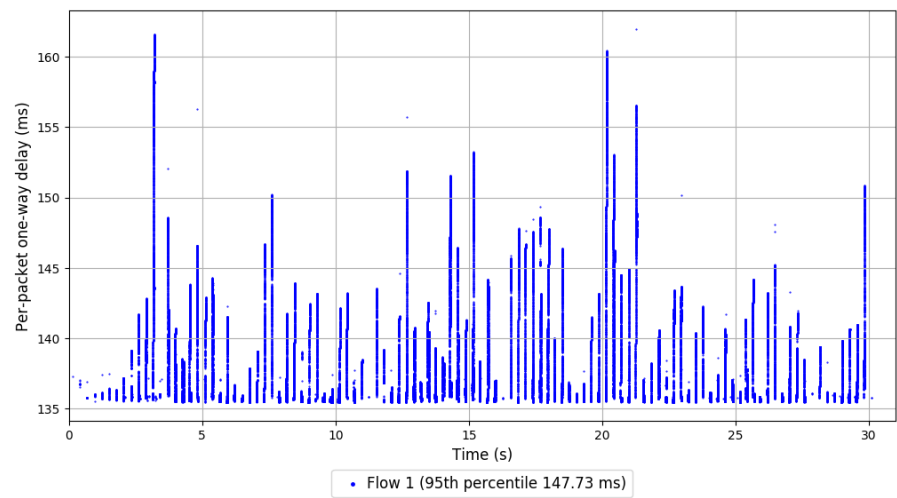
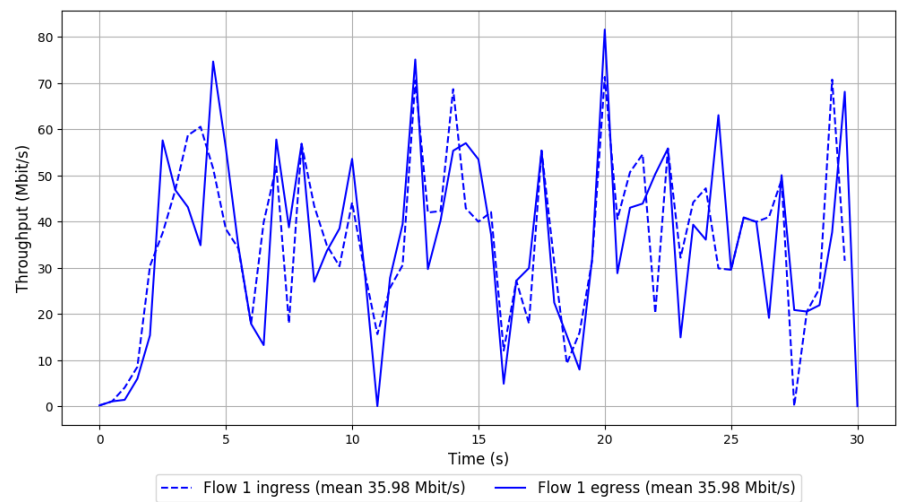
-- Flow 1:

Average throughput: 35.98 Mbit/s

95th percentile per-packet one-way delay: 147.731 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-18 11:41:24

End at: 2017-09-18 11:41:54

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 144.248 ms

Loss rate: 0.01%

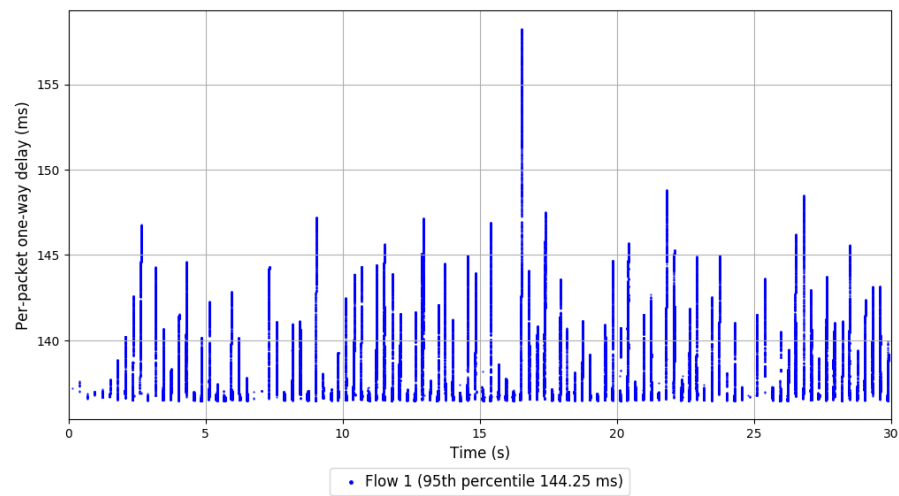
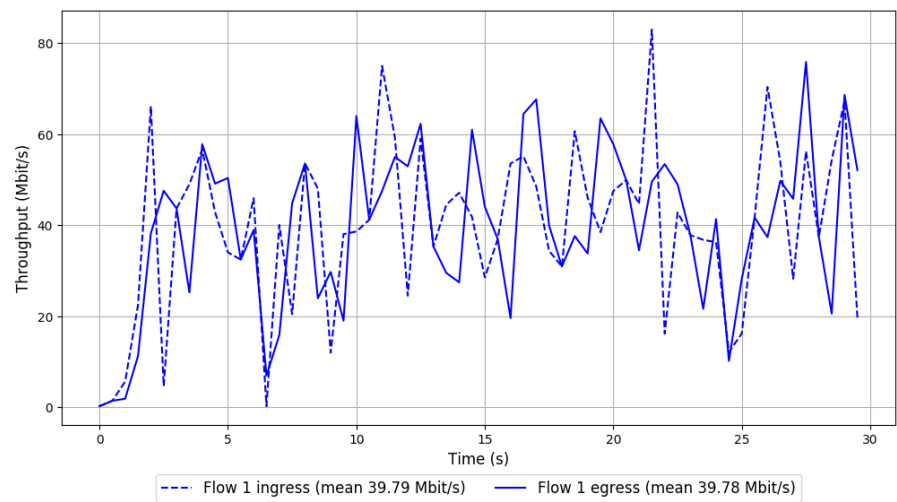
-- Flow 1:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 144.248 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-18 11:53:59

End at: 2017-09-18 11:54:29

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.35 Mbit/s

95th percentile per-packet one-way delay: 150.342 ms

Loss rate: 0.01%

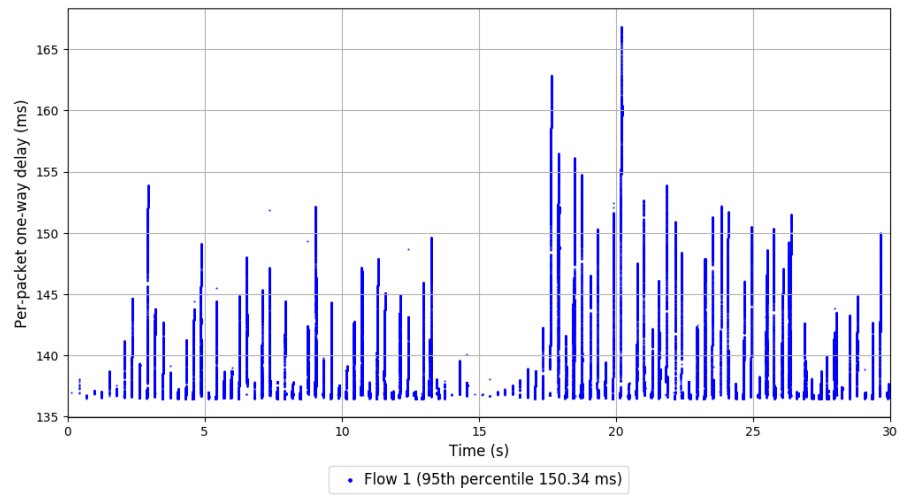
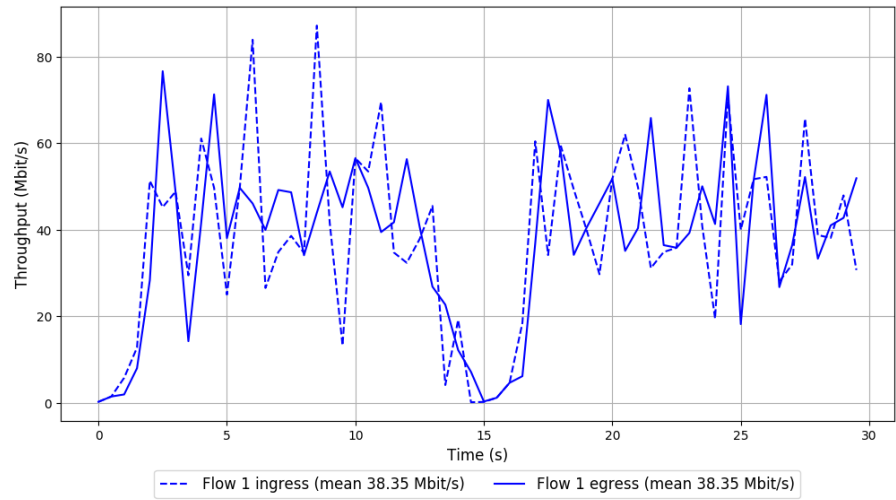
-- Flow 1:

Average throughput: 38.35 Mbit/s

95th percentile per-packet one-way delay: 150.342 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

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

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 153.778 ms

Loss rate: 0.01%

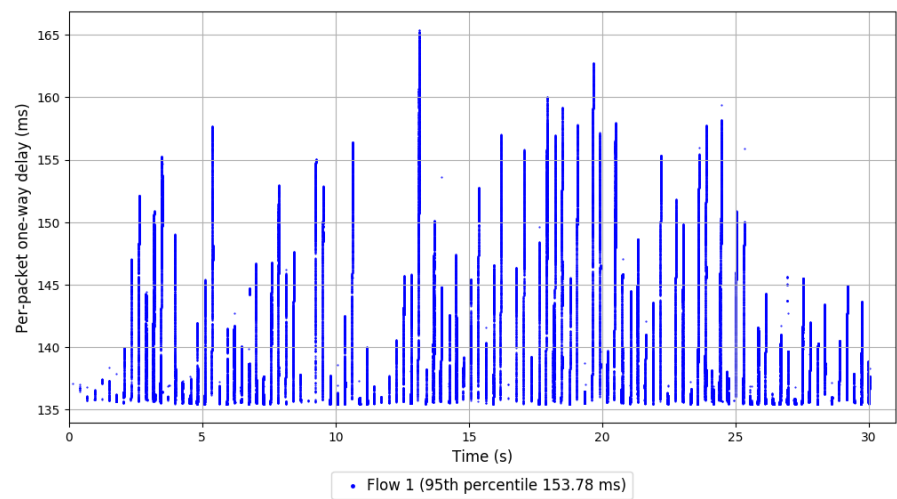
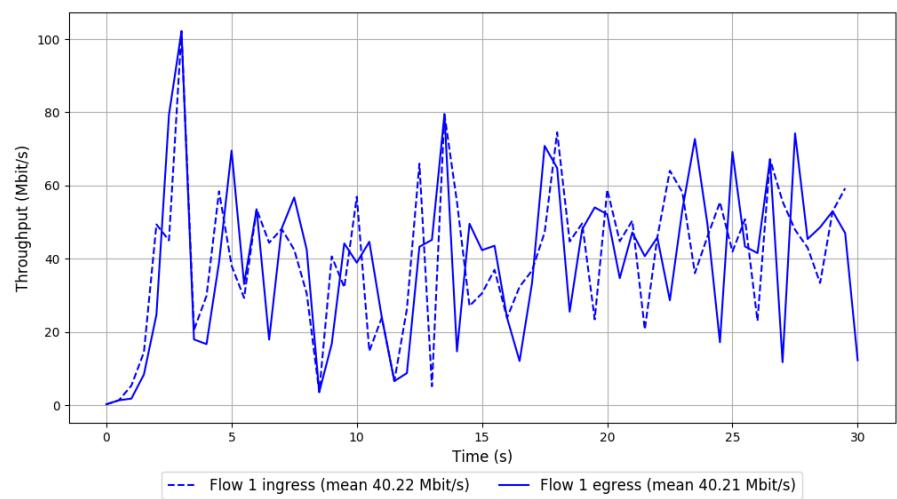
-- Flow 1:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 153.778 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-18 12:18:34

End at: 2017-09-18 12:19:04

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.33 Mbit/s

95th percentile per-packet one-way delay: 143.988 ms

Loss rate: 0.00%

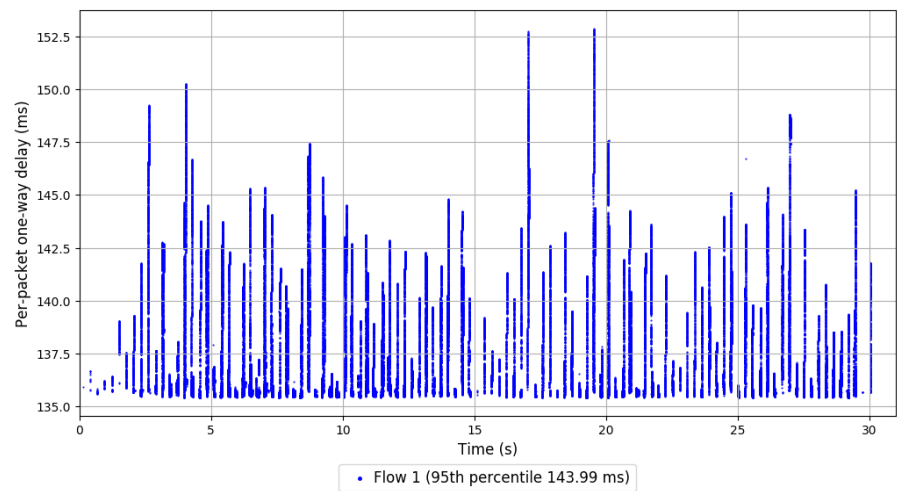
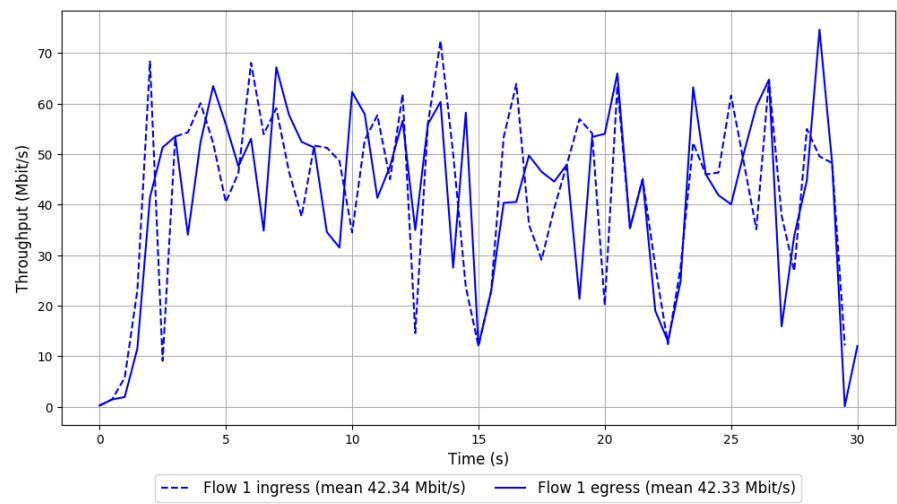
-- Flow 1:

Average throughput: 42.33 Mbit/s

95th percentile per-packet one-way delay: 143.988 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-09-18 10:24:31

End at: 2017-09-18 10:25:02

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.14 Mbit/s

95th percentile per-packet one-way delay: 143.406 ms

Loss rate: 0.01%

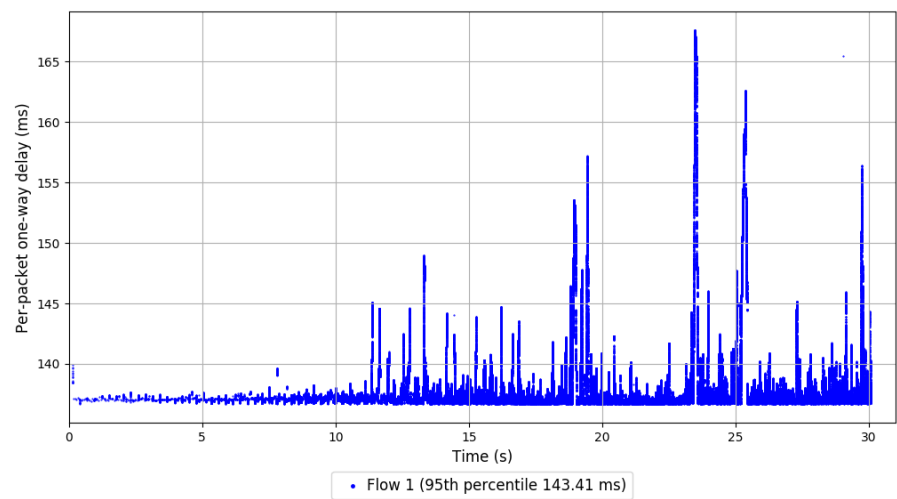
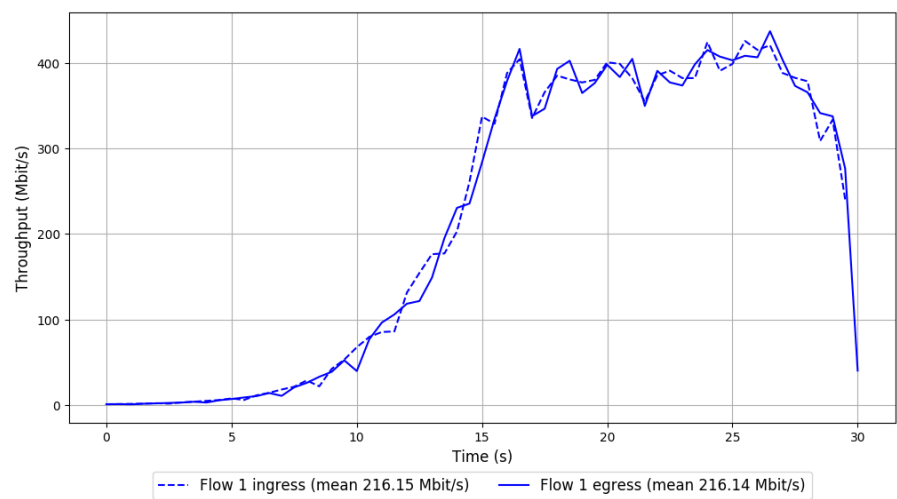
-- Flow 1:

Average throughput: 216.14 Mbit/s

95th percentile per-packet one-way delay: 143.406 ms

Loss rate: 0.01%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-09-18 10:36:28

End at: 2017-09-18 10:36:58

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.59 Mbit/s

95th percentile per-packet one-way delay: 140.220 ms

Loss rate: 0.00%

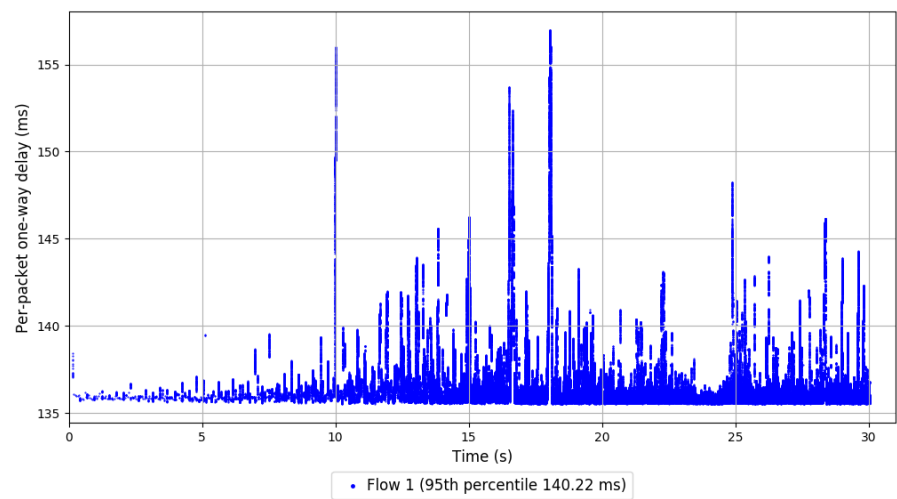
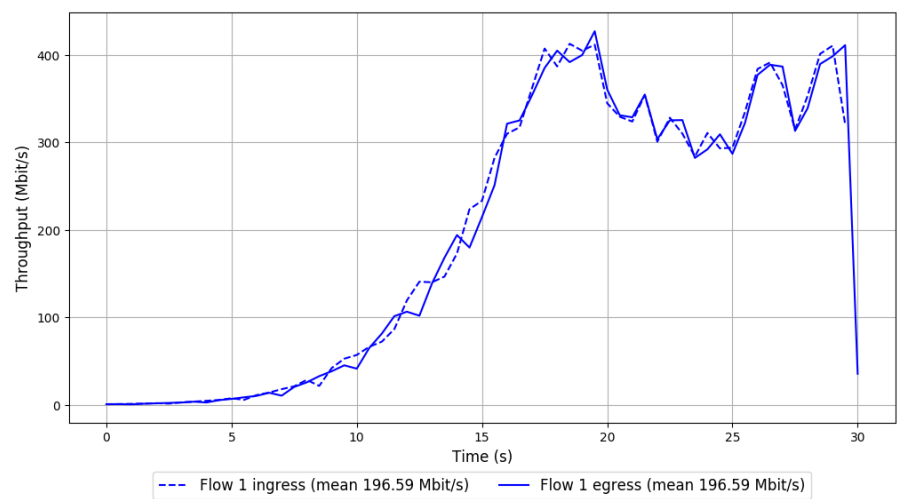
-- Flow 1:

Average throughput: 196.59 Mbit/s

95th percentile per-packet one-way delay: 140.220 ms

Loss rate: 0.00%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

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

End at: 2017-09-18 10:49:40

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.99 Mbit/s

95th percentile per-packet one-way delay: 139.690 ms

Loss rate: 0.00%

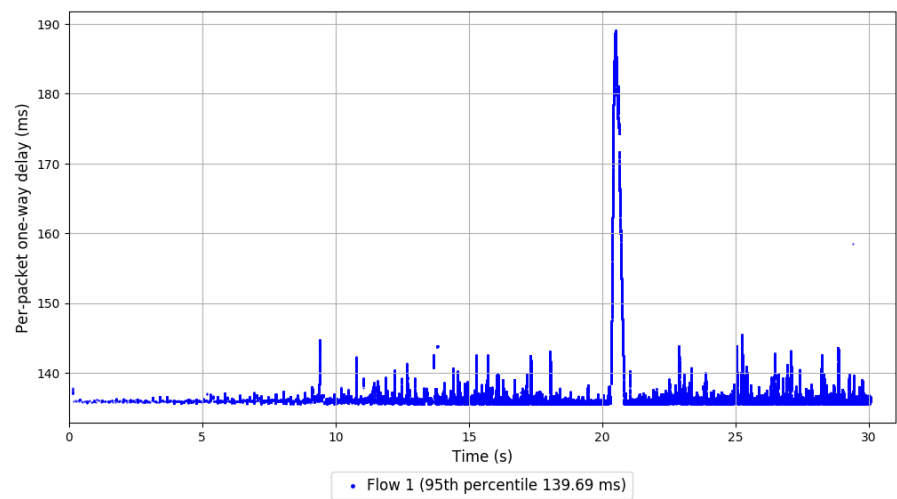
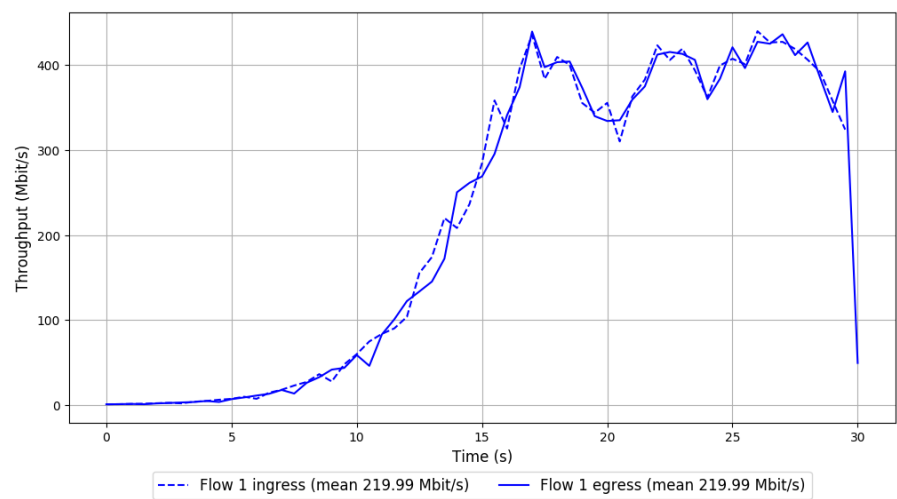
-- Flow 1:

Average throughput: 219.99 Mbit/s

95th percentile per-packet one-way delay: 139.690 ms

Loss rate: 0.00%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-09-18 11:01:07

End at: 2017-09-18 11:01:37

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.86 Mbit/s

95th percentile per-packet one-way delay: 159.608 ms

Loss rate: 0.00%

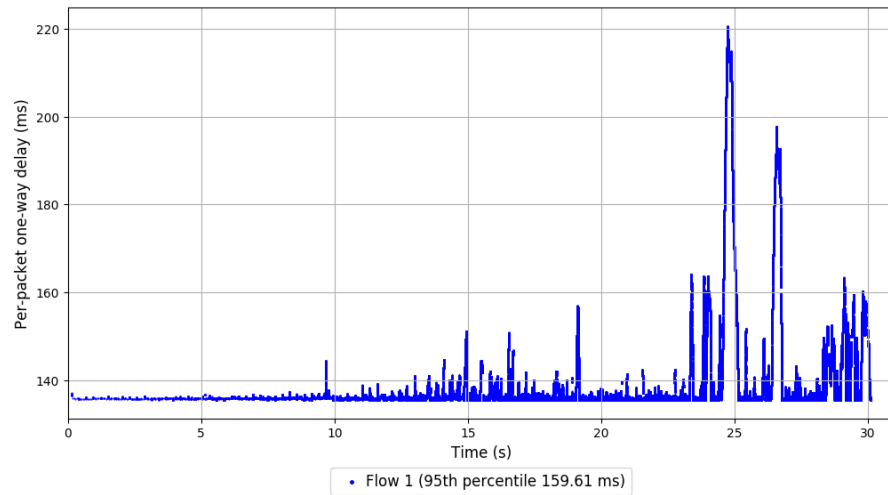
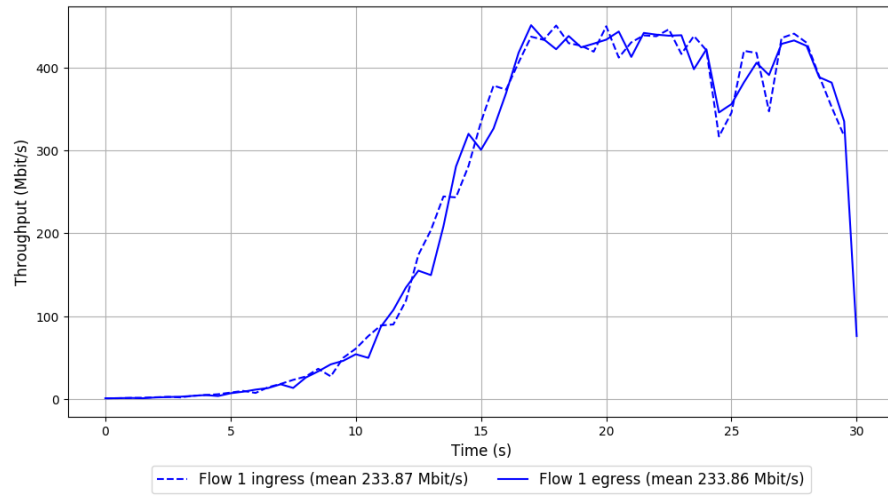
-- Flow 1:

Average throughput: 233.86 Mbit/s

95th percentile per-packet one-way delay: 159.608 ms

Loss rate: 0.00%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-09-18 11:13:41

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

Below is generated by plot.py at 2017-09-18 13:13:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.68 Mbit/s

95th percentile per-packet one-way delay: 149.636 ms

Loss rate: 0.01%

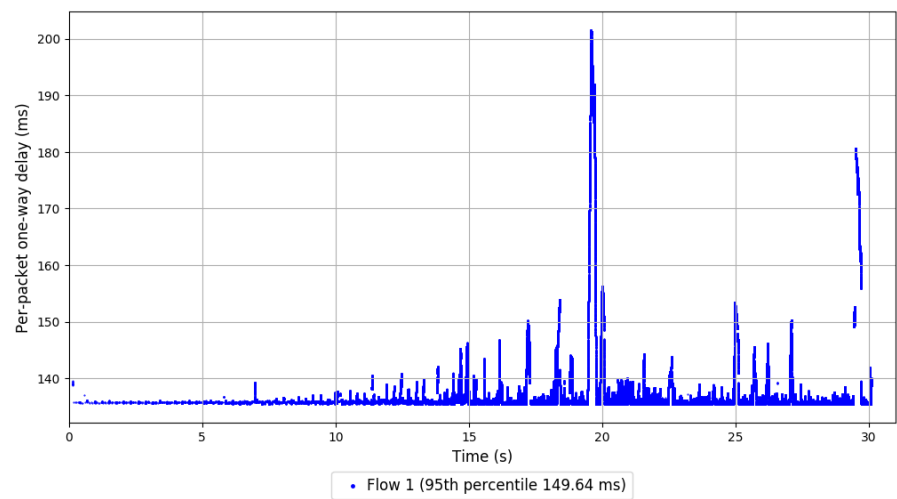
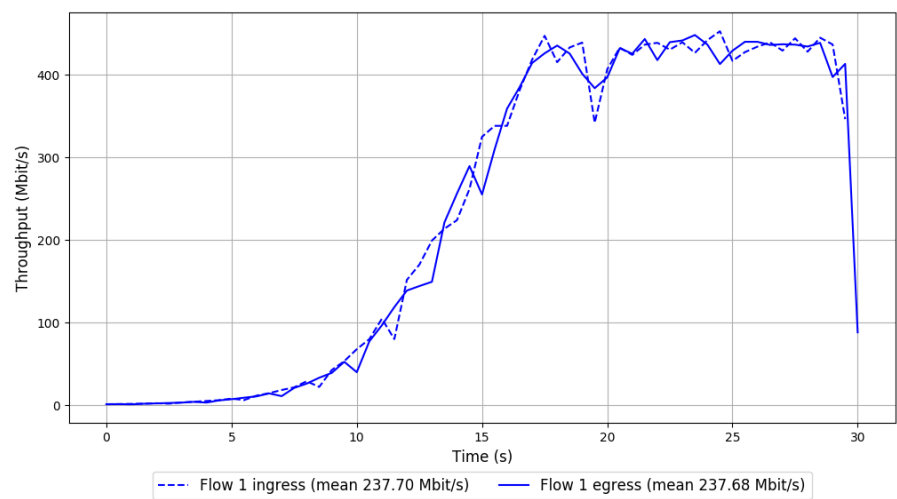
-- Flow 1:

Average throughput: 237.68 Mbit/s

95th percentile per-packet one-way delay: 149.636 ms

Loss rate: 0.01%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-09-18 11:25:37

End at: 2017-09-18 11:26:07

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.05 Mbit/s

95th percentile per-packet one-way delay: 155.350 ms

Loss rate: 0.02%

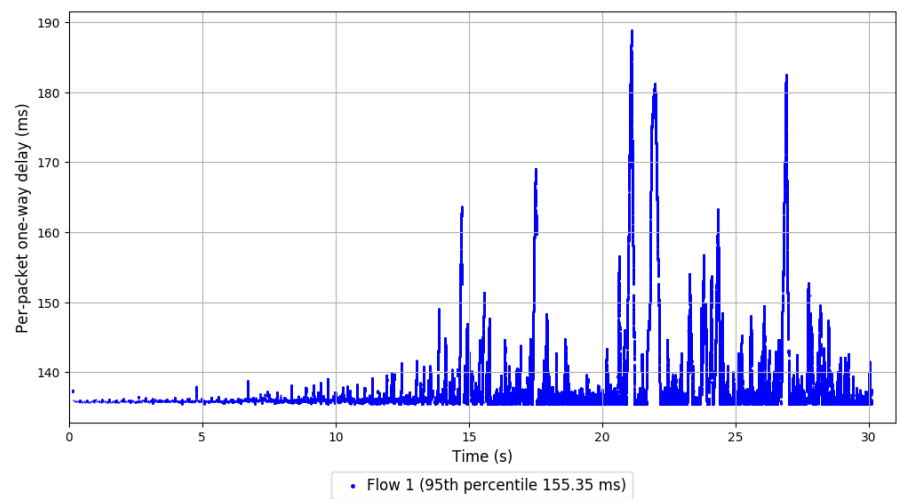
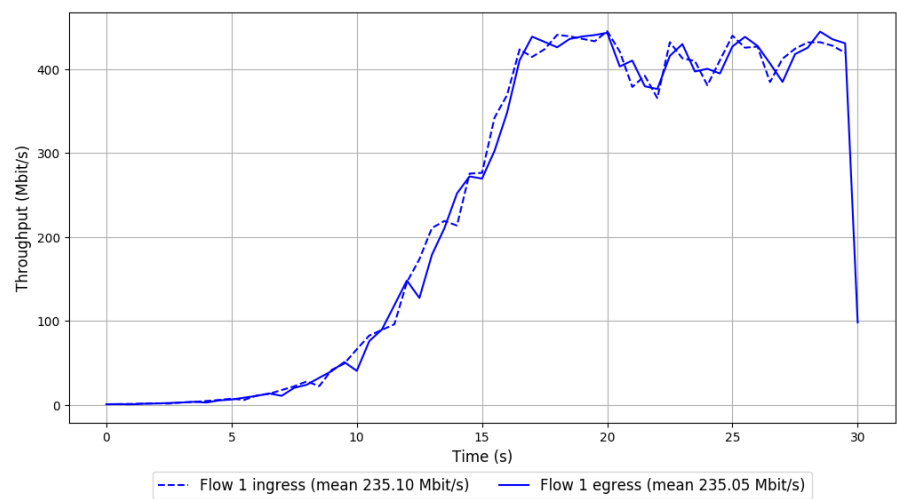
-- Flow 1:

Average throughput: 235.05 Mbit/s

95th percentile per-packet one-way delay: 155.350 ms

Loss rate: 0.02%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-09-18 11:37:27

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.25 Mbit/s

95th percentile per-packet one-way delay: 158.936 ms

Loss rate: 0.07%

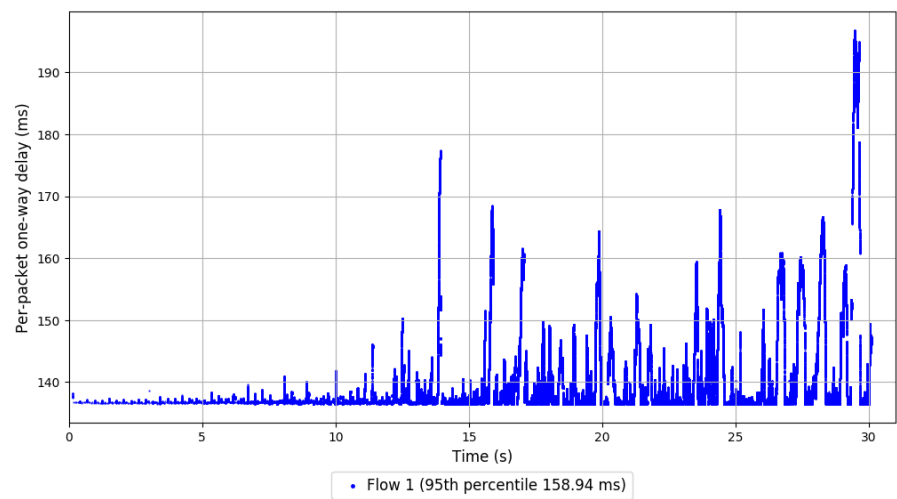
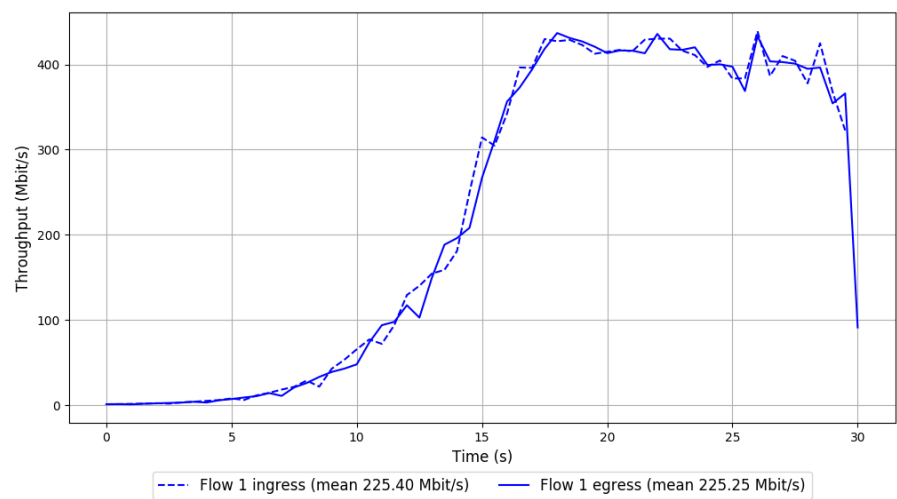
-- Flow 1:

Average throughput: 225.25 Mbit/s

95th percentile per-packet one-way delay: 158.936 ms

Loss rate: 0.07%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-09-18 11:49:52

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.48 Mbit/s

95th percentile per-packet one-way delay: 143.583 ms

Loss rate: 0.11%

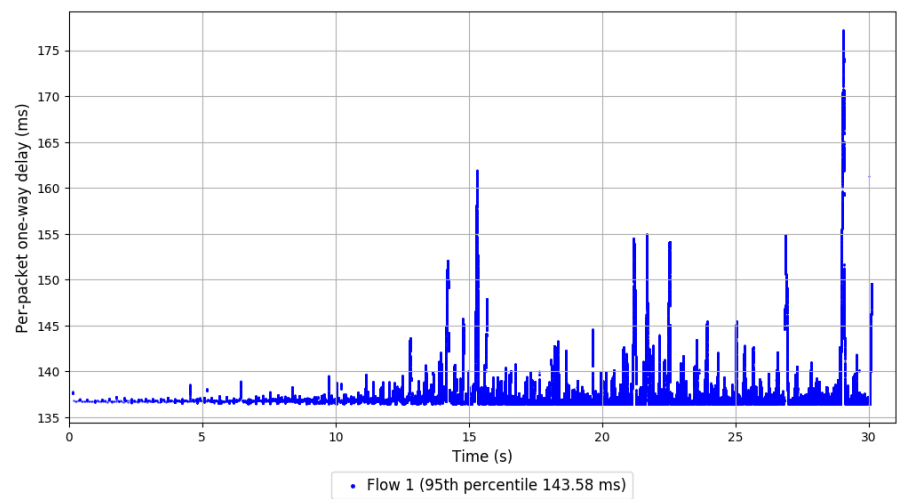
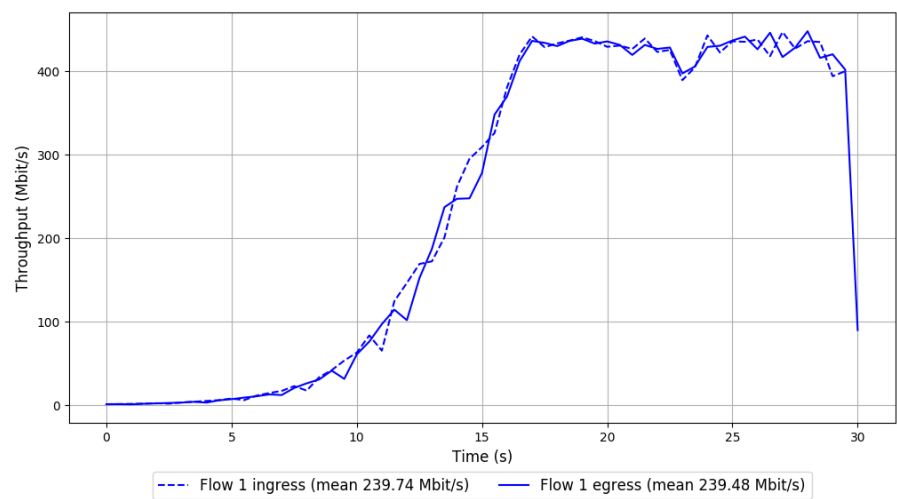
-- Flow 1:

Average throughput: 239.48 Mbit/s

95th percentile per-packet one-way delay: 143.583 ms

Loss rate: 0.11%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-09-18 12:02:33

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

Below is generated by plot.py at 2017-09-18 13:17:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.65 Mbit/s

95th percentile per-packet one-way delay: 144.498 ms

Loss rate: 0.00%

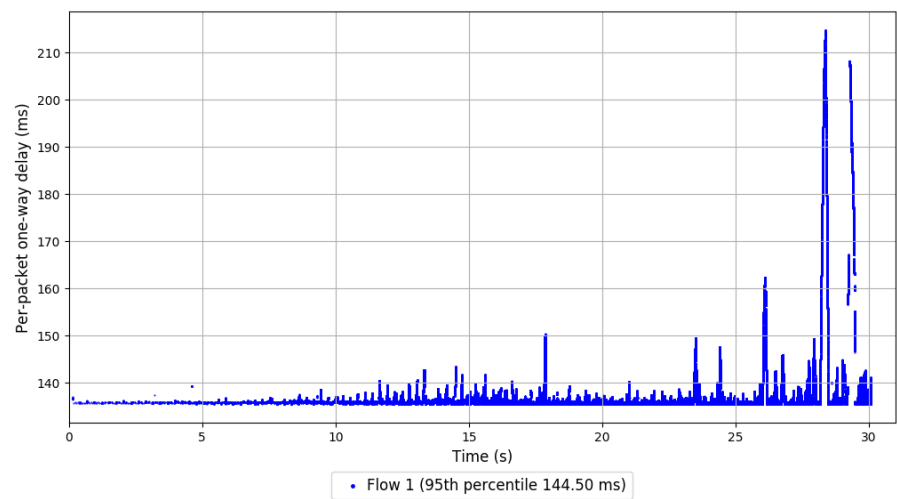
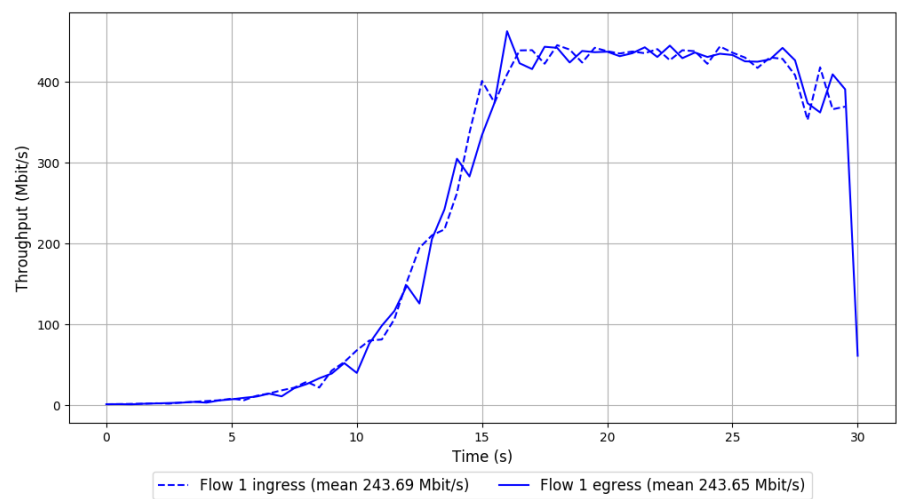
-- Flow 1:

Average throughput: 243.65 Mbit/s

95th percentile per-packet one-way delay: 144.498 ms

Loss rate: 0.00%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-09-18 12:14:29

End at: 2017-09-18 12:14:59

Below is generated by plot.py at 2017-09-18 13:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.75 Mbit/s

95th percentile per-packet one-way delay: 164.851 ms

Loss rate: 0.05%

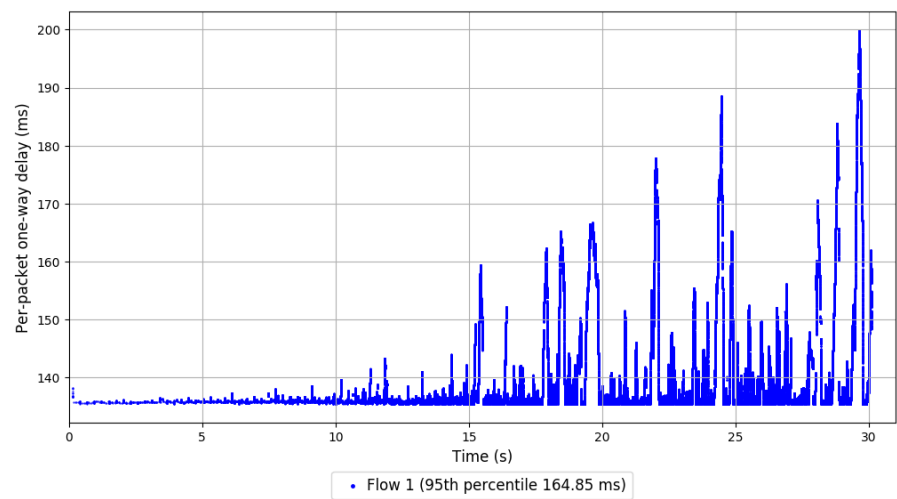
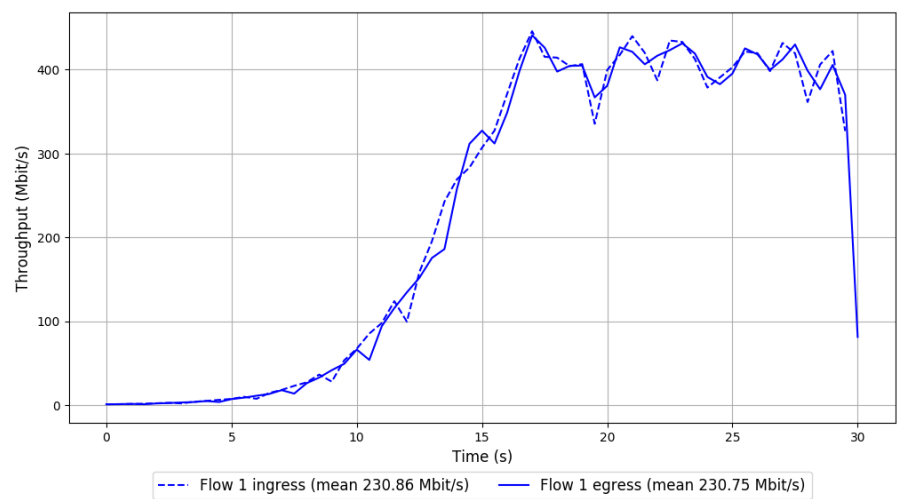
-- Flow 1:

Average throughput: 230.75 Mbit/s

95th percentile per-packet one-way delay: 164.851 ms

Loss rate: 0.05%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-09-18 10:27:51

End at: 2017-09-18 10:28:21

Below is generated by plot.py at 2017-09-18 13:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.94 Mbit/s

95th percentile per-packet one-way delay: 136.907 ms

Loss rate: 0.00%

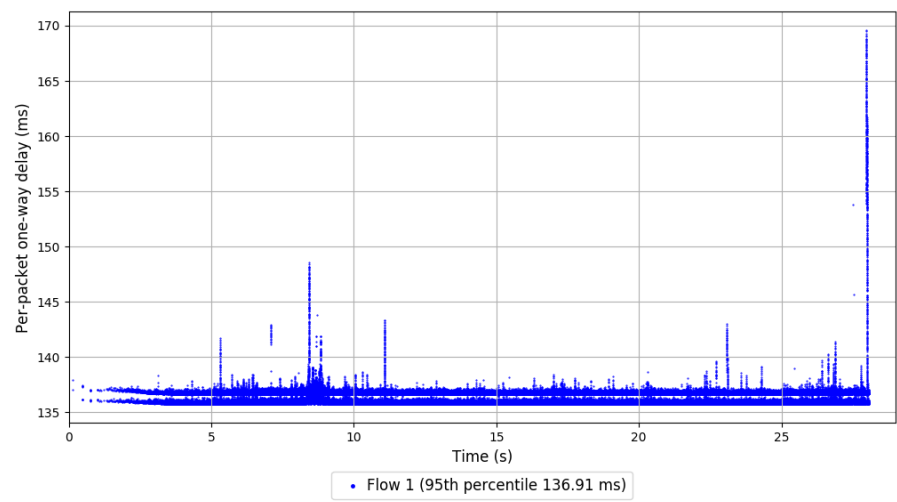
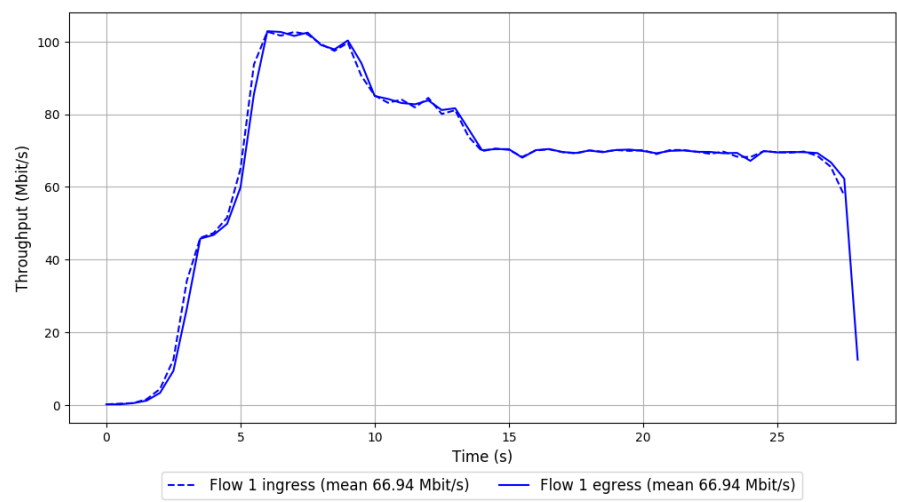
-- Flow 1:

Average throughput: 66.94 Mbit/s

95th percentile per-packet one-way delay: 136.907 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-09-18 10:39:46

End at: 2017-09-18 10:40:16

Below is generated by plot.py at 2017-09-18 13:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.35 Mbit/s

95th percentile per-packet one-way delay: 136.808 ms

Loss rate: 0.00%

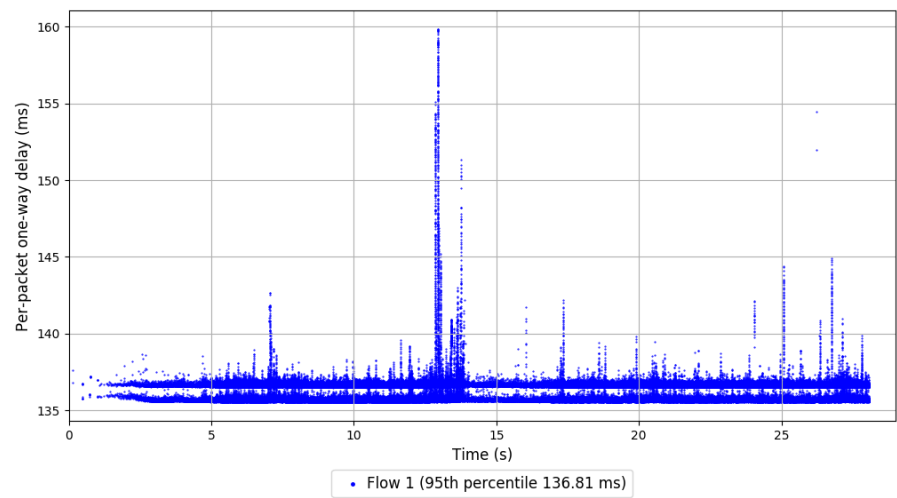
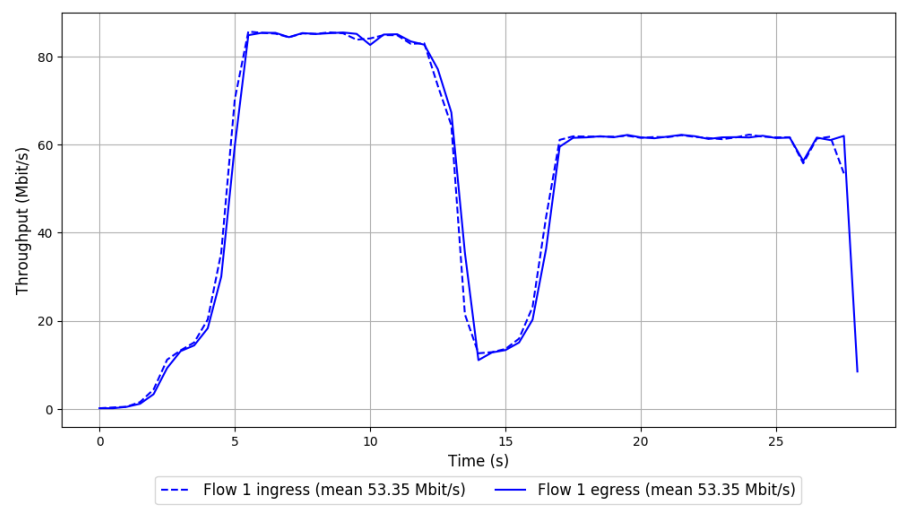
-- Flow 1:

Average throughput: 53.35 Mbit/s

95th percentile per-packet one-way delay: 136.808 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

End at: 2017-09-18 10:52:59

Below is generated by plot.py at 2017-09-18 13:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.68 Mbit/s

95th percentile per-packet one-way delay: 136.086 ms

Loss rate: 0.00%

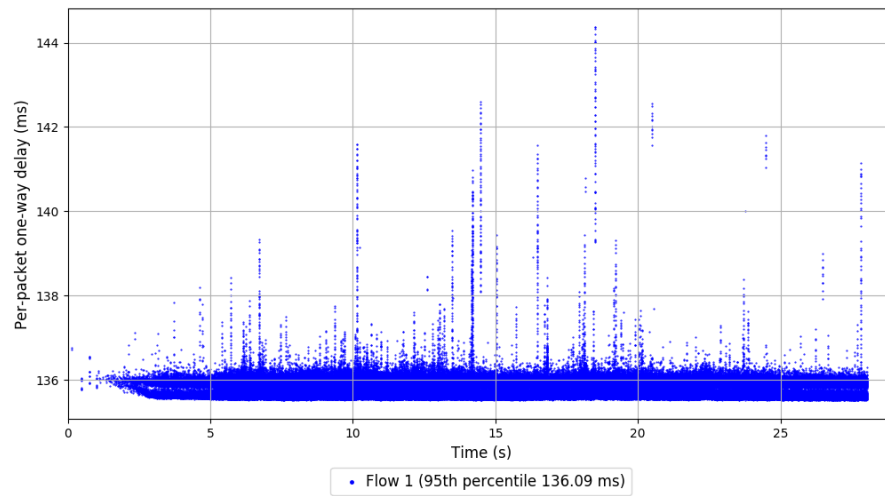
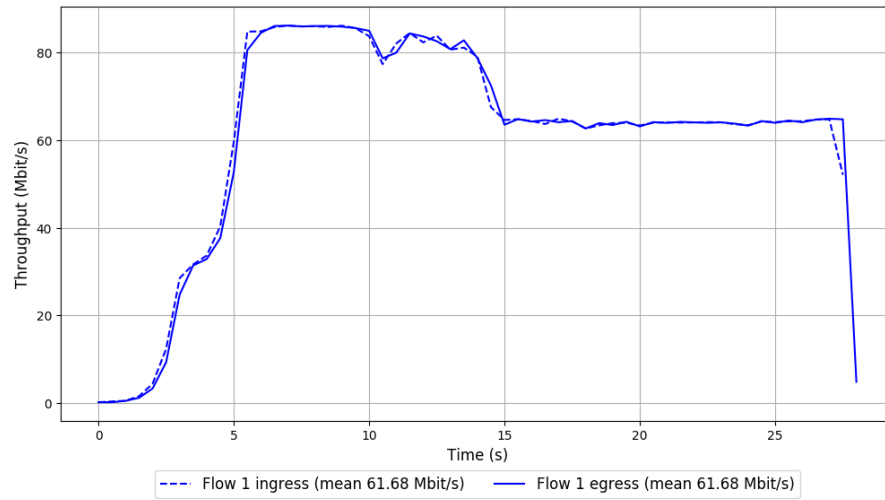
-- Flow 1:

Average throughput: 61.68 Mbit/s

95th percentile per-packet one-way delay: 136.086 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-09-18 11:04:20

End at: 2017-09-18 11:04:50

Below is generated by plot.py at 2017-09-18 13:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 137.090 ms

Loss rate: 0.00%

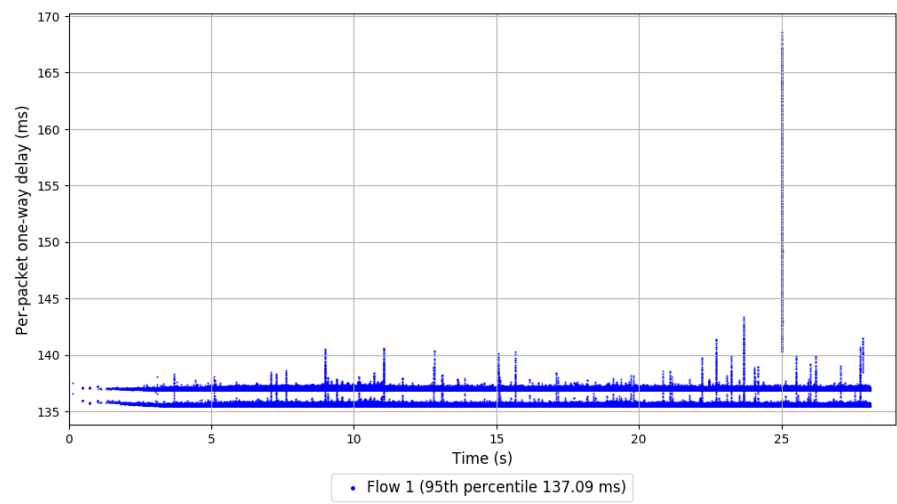
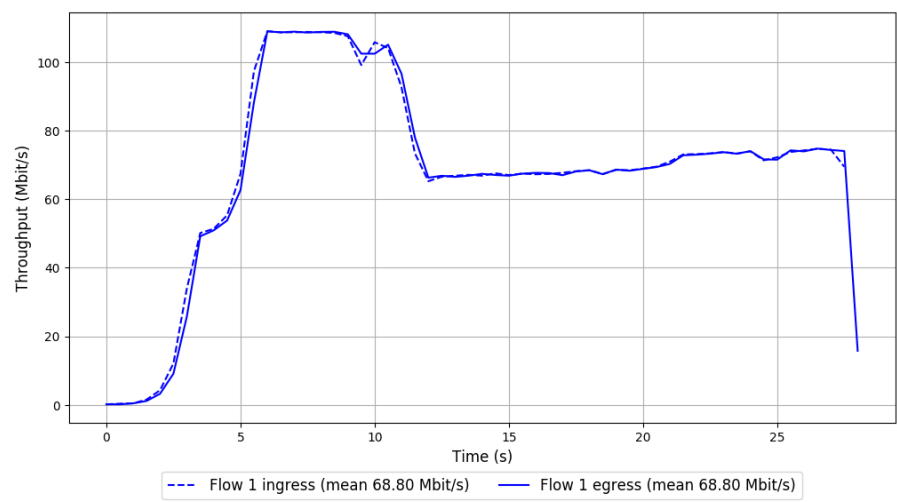
-- Flow 1:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 137.090 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-09-18 11:16:55

End at: 2017-09-18 11:17:25

Below is generated by plot.py at 2017-09-18 13:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 136.979 ms

Loss rate: 0.00%

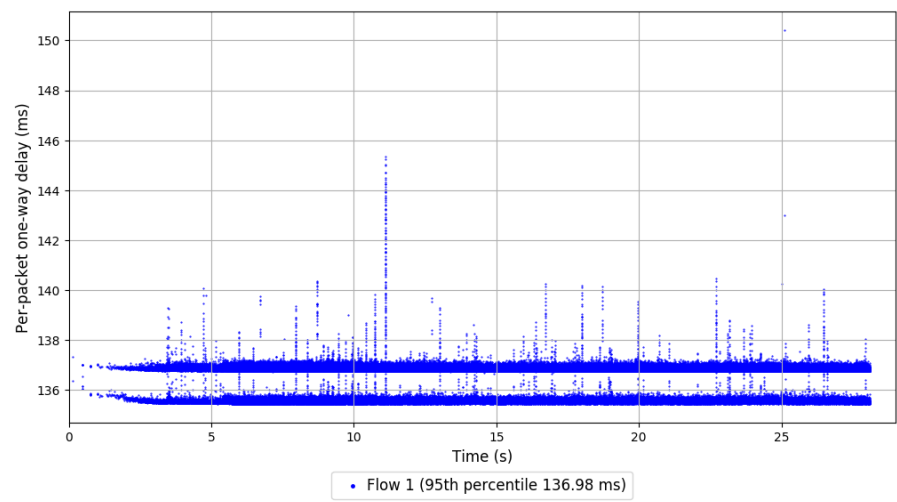
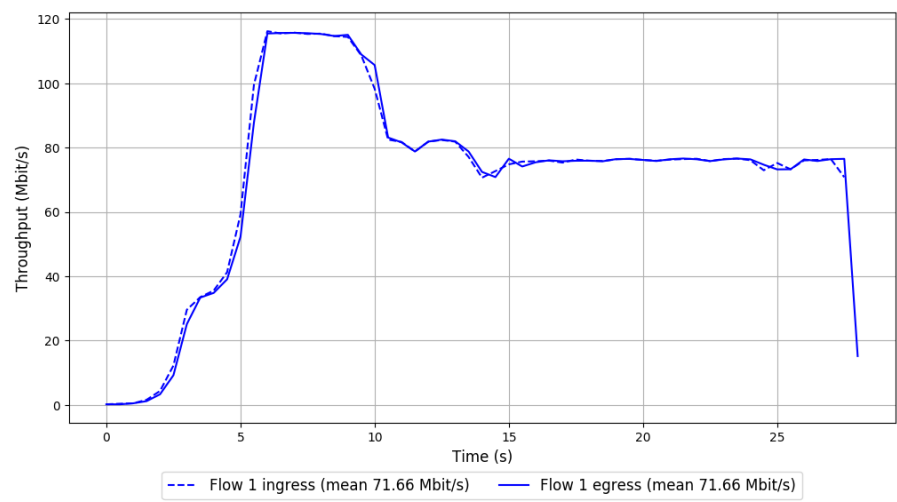
-- Flow 1:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 136.979 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-09-18 11:28:52

End at: 2017-09-18 11:29:22

Below is generated by plot.py at 2017-09-18 13:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.35 Mbit/s

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

Loss rate: 0.00%

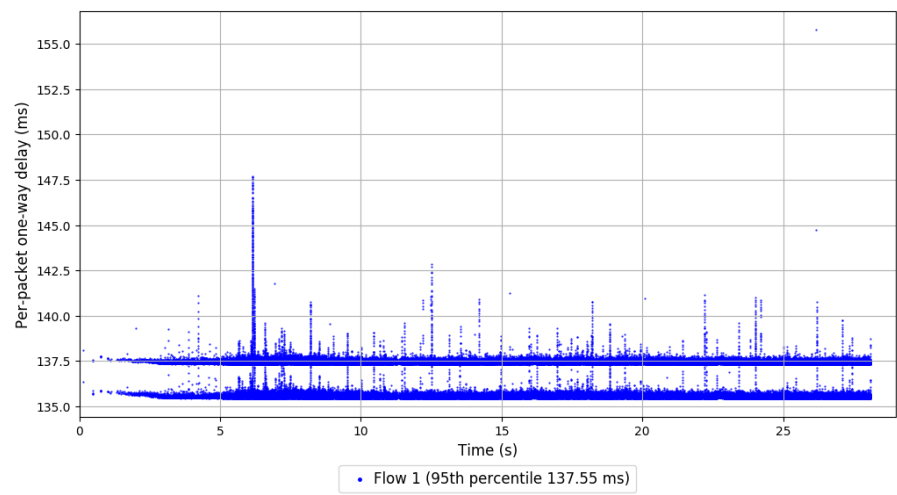
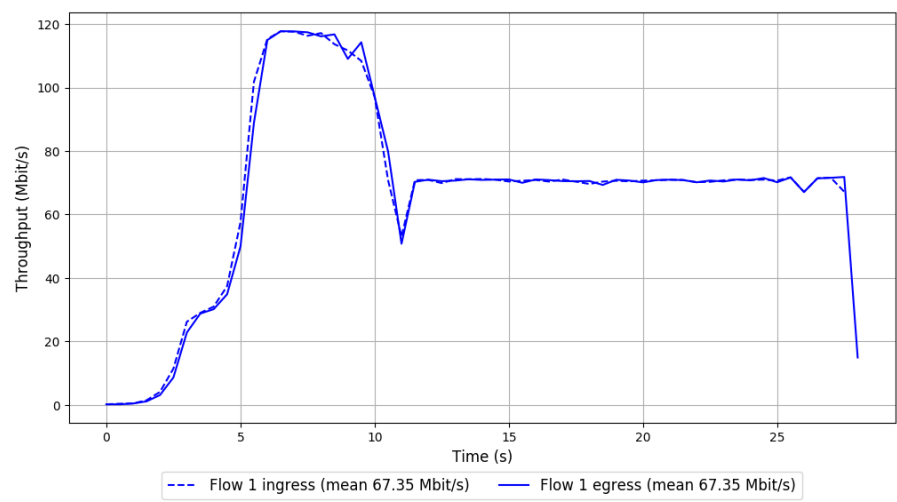
-- Flow 1:

Average throughput: 67.35 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

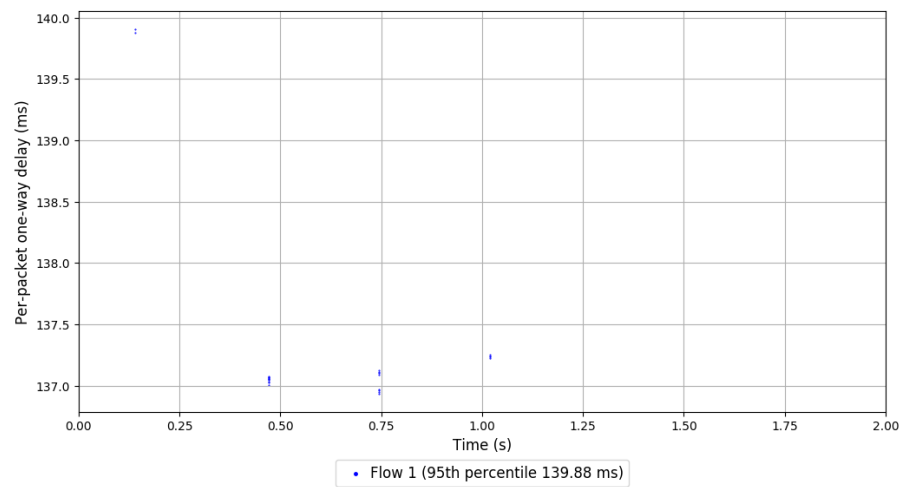
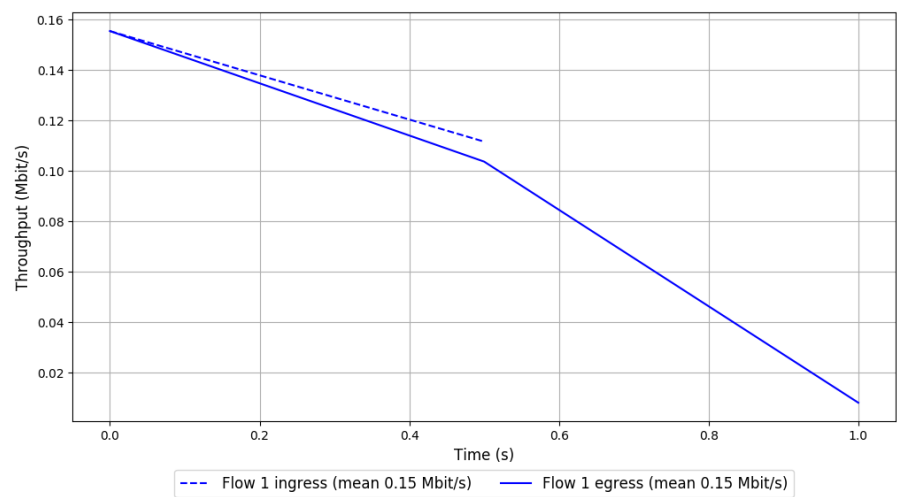


Run 7: Statistics of Copa

Start at: 2017-09-18 11:40:41

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

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-09-18 11:53:08

End at: 2017-09-18 11:53:38

Below is generated by plot.py at 2017-09-18 13:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 136.993 ms

Loss rate: 0.00%

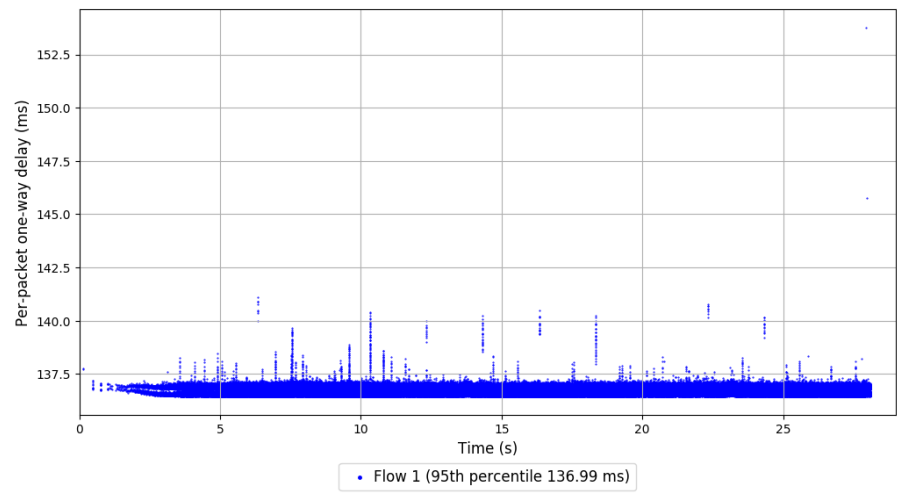
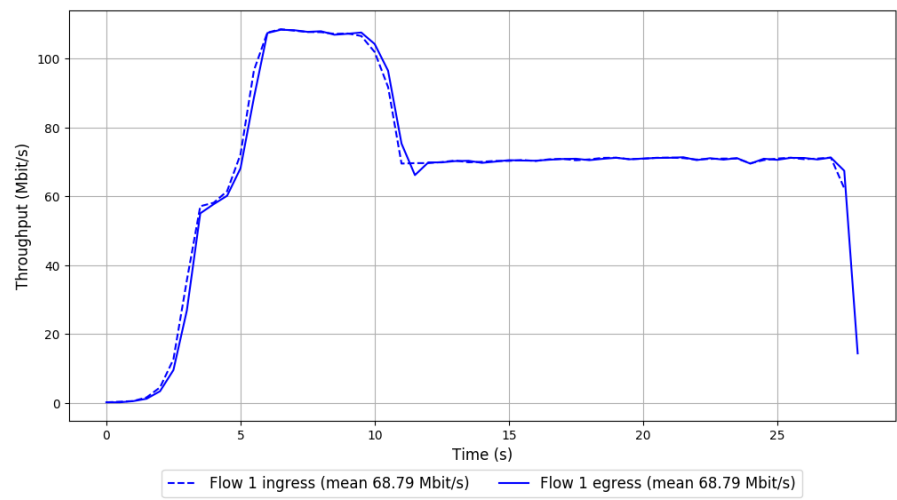
-- Flow 1:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 136.993 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-09-18 12:05:50

End at: 2017-09-18 12:06:20

Below is generated by plot.py at 2017-09-18 13:17:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 137.450 ms

Loss rate: 0.00%

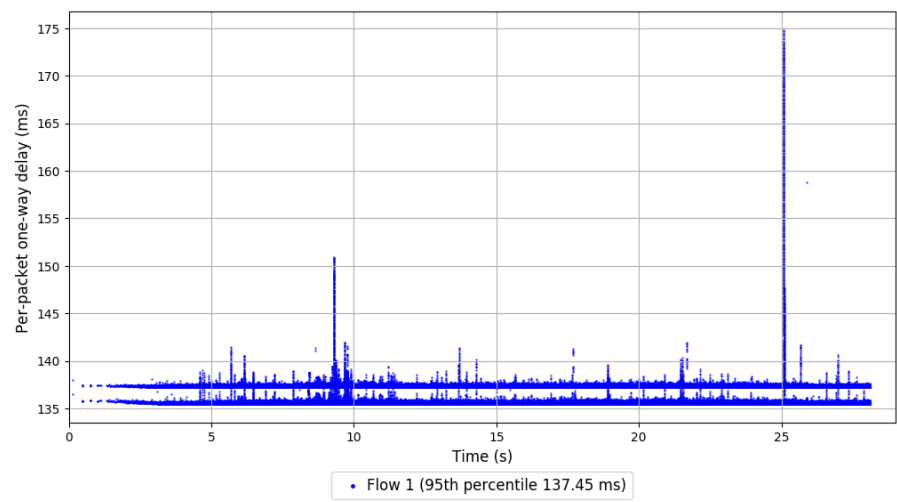
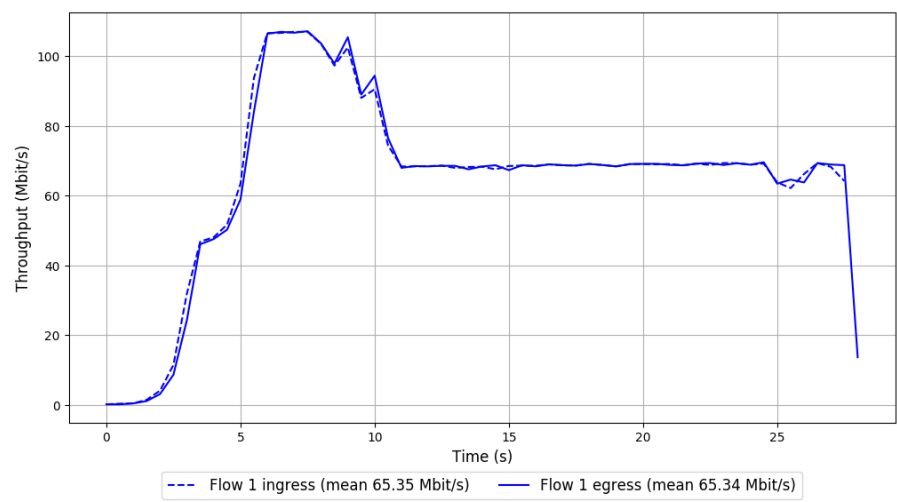
-- Flow 1:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 137.450 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-09-18 12:17:43

End at: 2017-09-18 12:18:13

Below is generated by plot.py at 2017-09-18 13:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.82 Mbit/s

95th percentile per-packet one-way delay: 136.810 ms

Loss rate: 0.00%

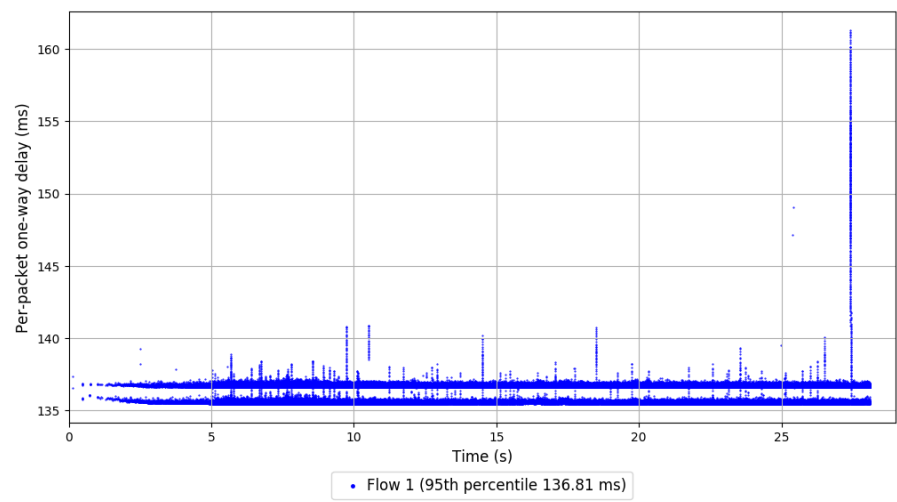
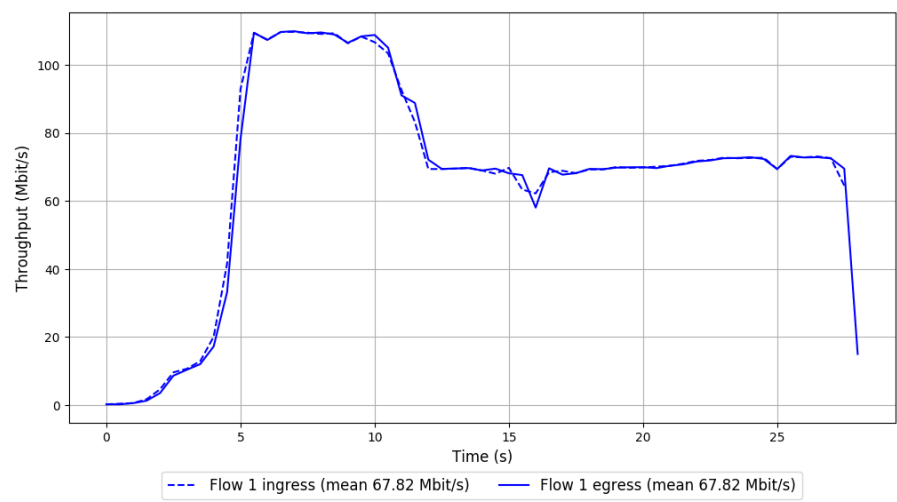
-- Flow 1:

Average throughput: 67.82 Mbit/s

95th percentile per-packet one-way delay: 136.810 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 10:27:03

End at: 2017-09-18 10:27:33

Below is generated by plot.py at 2017-09-18 13:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.59 Mbit/s

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

Loss rate: 0.00%

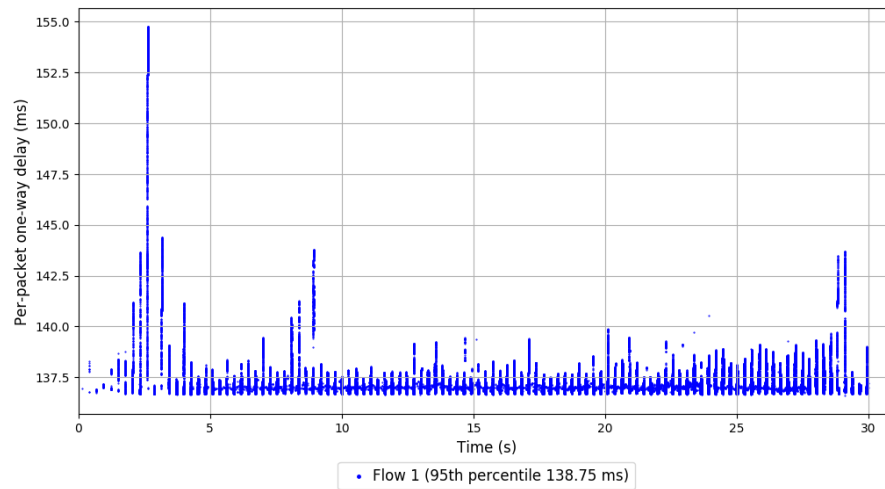
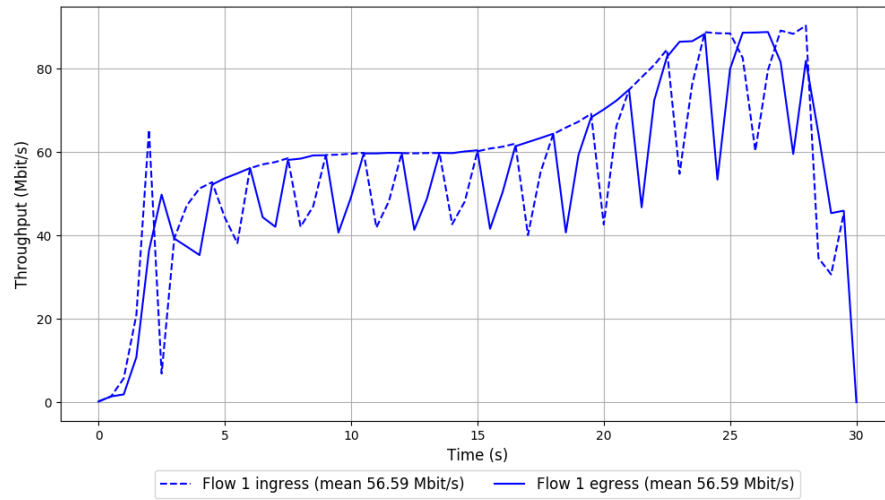
-- Flow 1:

Average throughput: 56.59 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 10:38:59

End at: 2017-09-18 10:39:29

Below is generated by plot.py at 2017-09-18 13:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.47 Mbit/s

95th percentile per-packet one-way delay: 136.555 ms

Loss rate: 0.01%

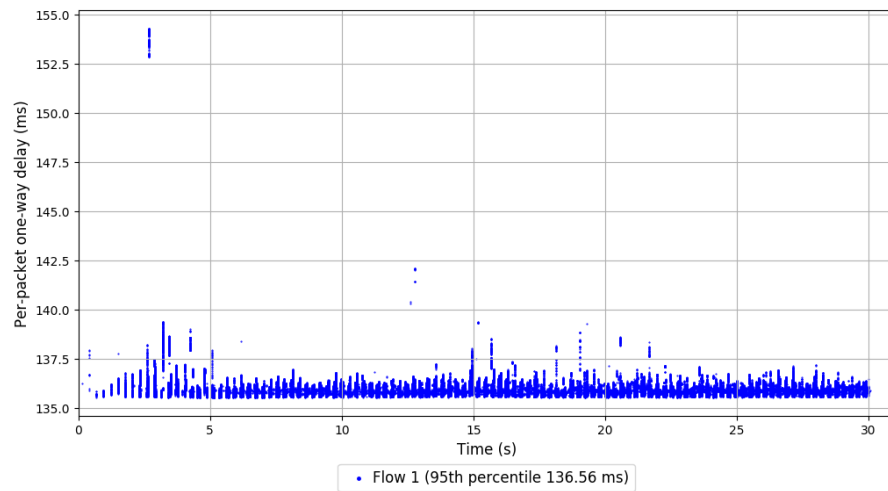
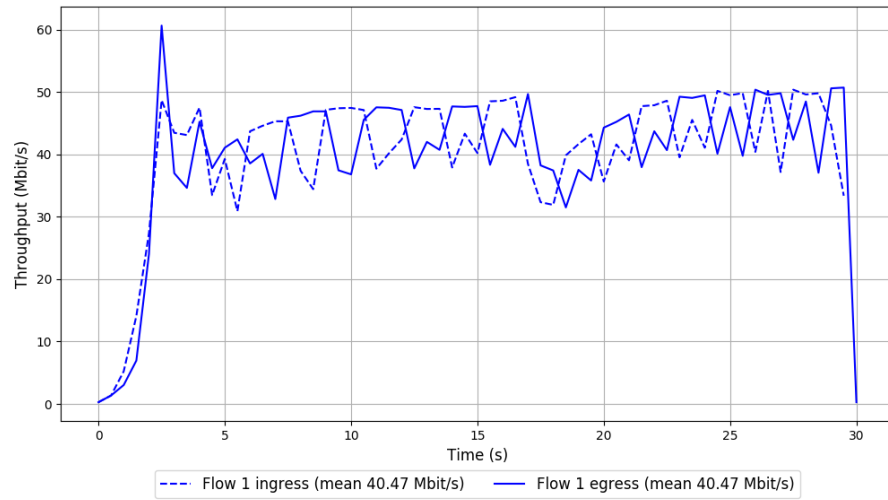
-- Flow 1:

Average throughput: 40.47 Mbit/s

95th percentile per-packet one-way delay: 136.555 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

End at: 2017-09-18 10:52:12

Below is generated by plot.py at 2017-09-18 13:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 138.111 ms

Loss rate: 0.00%

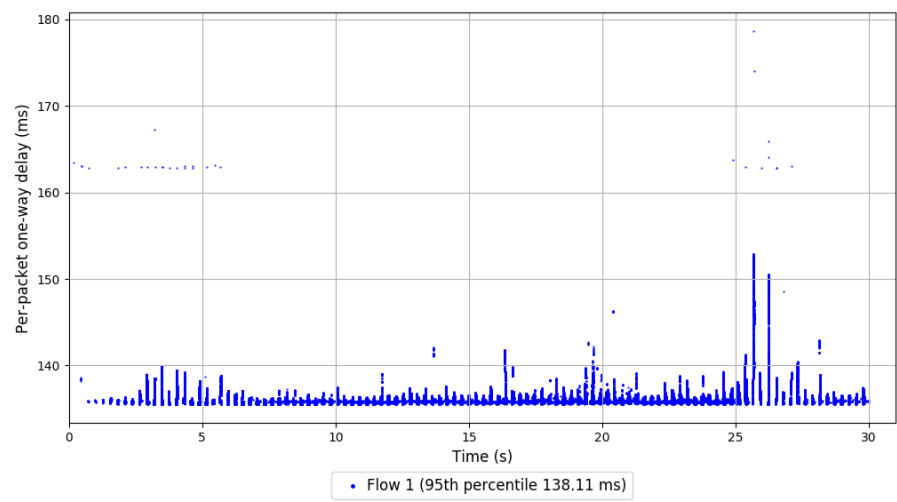
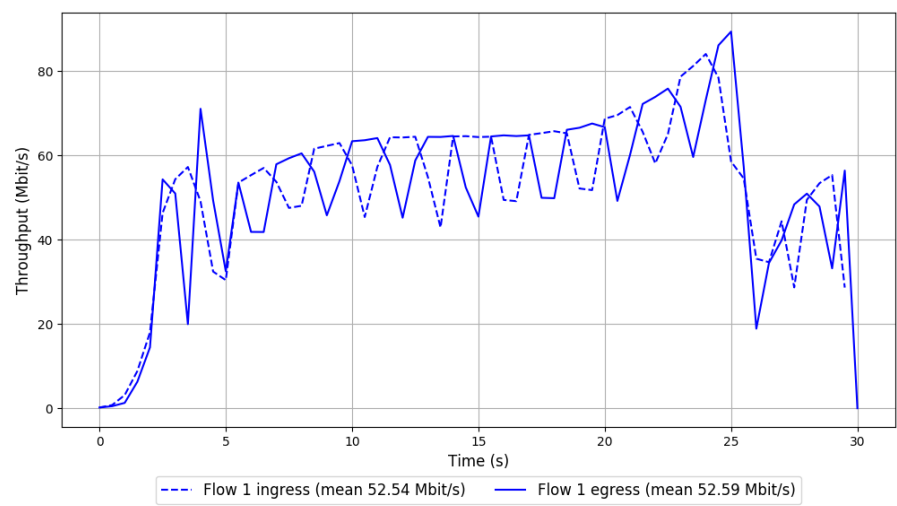
-- Flow 1:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 138.111 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 11:03:34

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

Below is generated by plot.py at 2017-09-18 13:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 141.627 ms

Loss rate: 0.01%

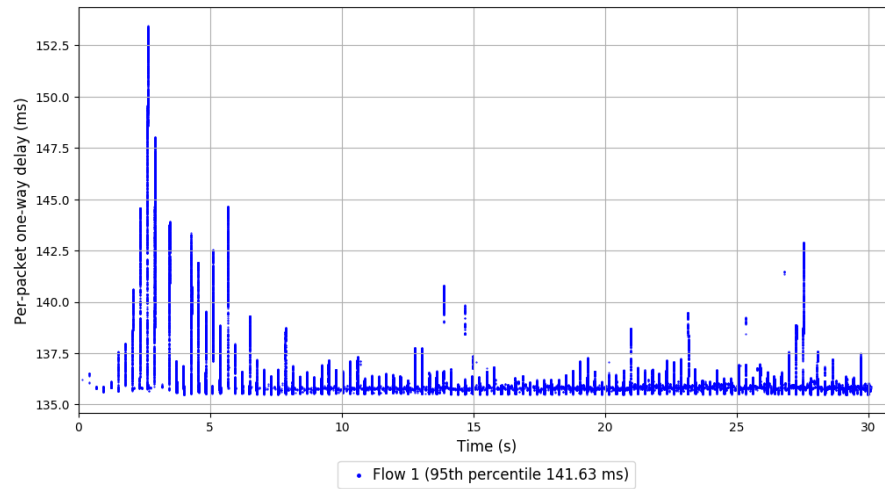
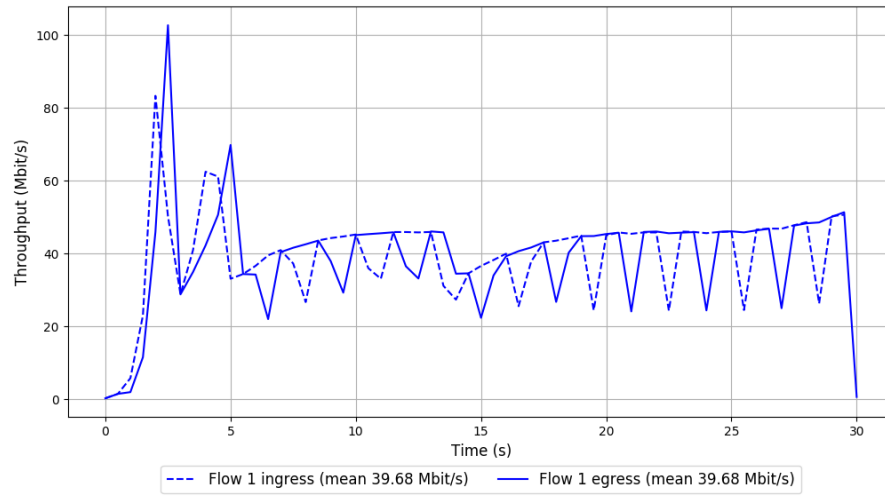
-- Flow 1:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 141.627 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2017-09-18 11:16:39

Below is generated by plot.py at 2017-09-18 13:17:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.07 Mbit/s

95th percentile per-packet one-way delay: 137.360 ms

Loss rate: 0.00%

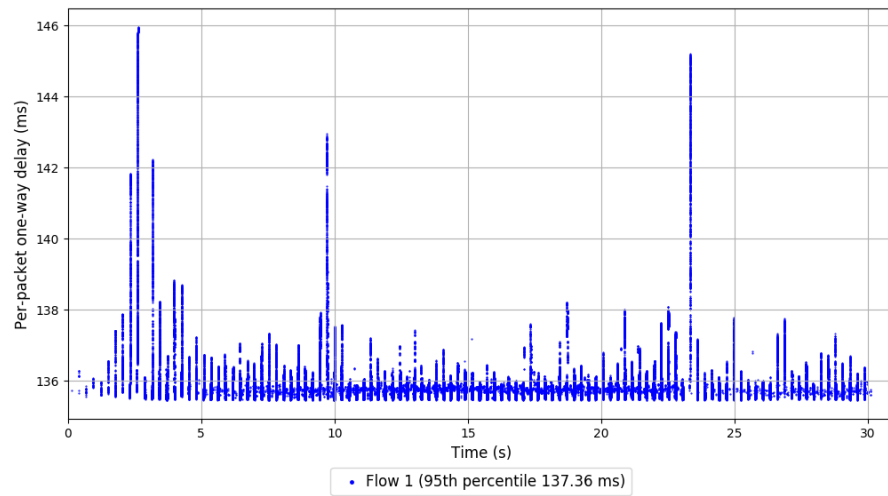
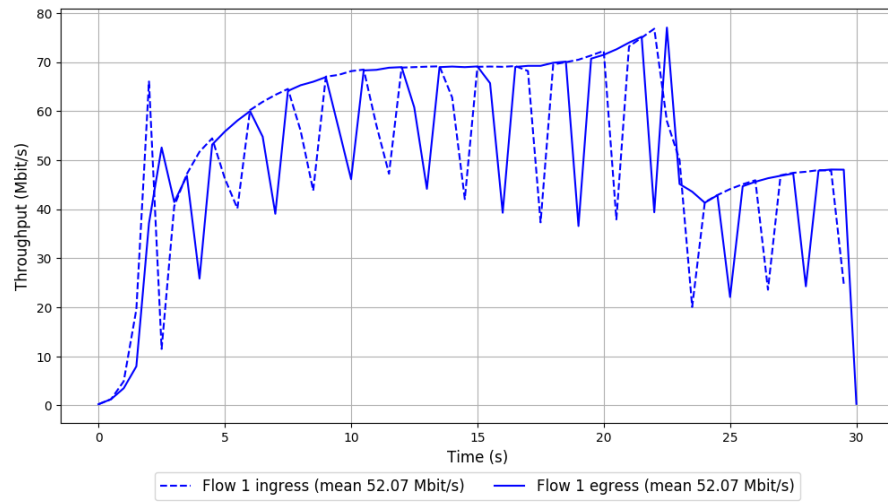
-- Flow 1:

Average throughput: 52.07 Mbit/s

95th percentile per-packet one-way delay: 137.360 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

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

End at: 2017-09-18 11:28:36

Below is generated by plot.py at 2017-09-18 13:17:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.71 Mbit/s

95th percentile per-packet one-way delay: 137.834 ms

Loss rate: 0.01%

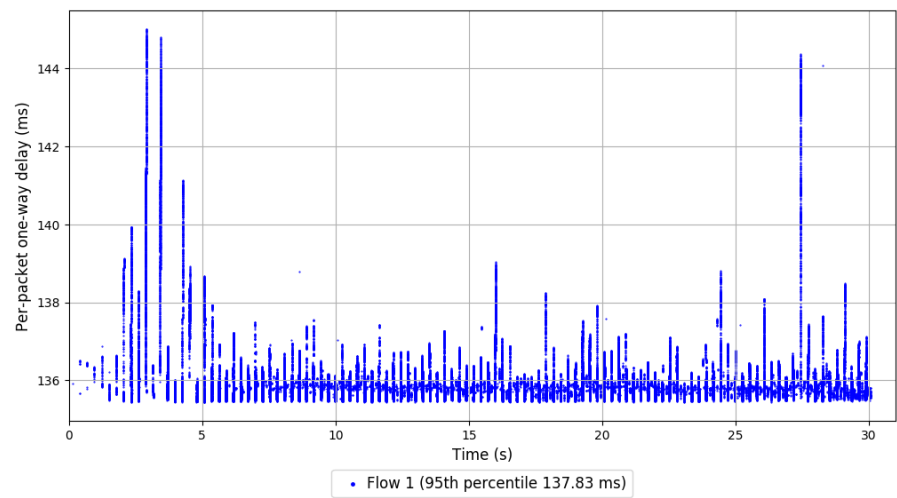
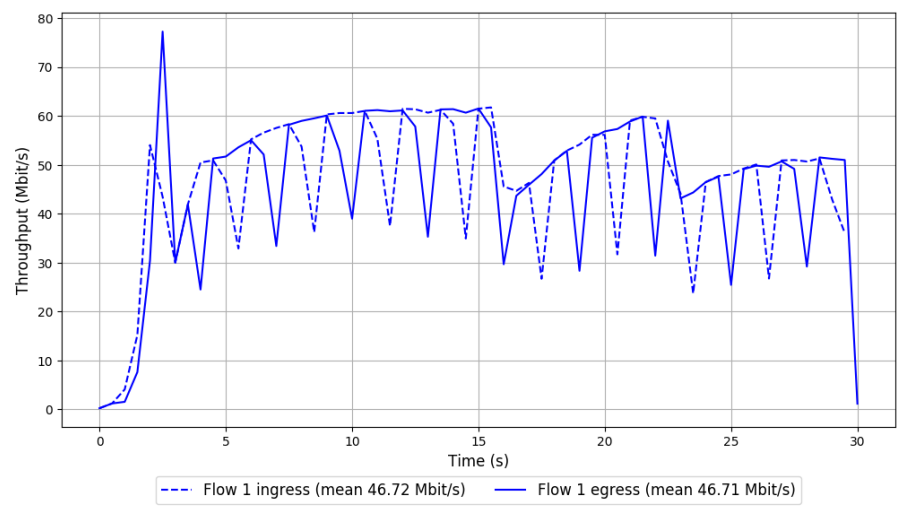
-- Flow 1:

Average throughput: 46.71 Mbit/s

95th percentile per-packet one-way delay: 137.834 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 11:39:54

End at: 2017-09-18 11:40:24

Below is generated by plot.py at 2017-09-18 13:18:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 138.721 ms

Loss rate: 0.00%

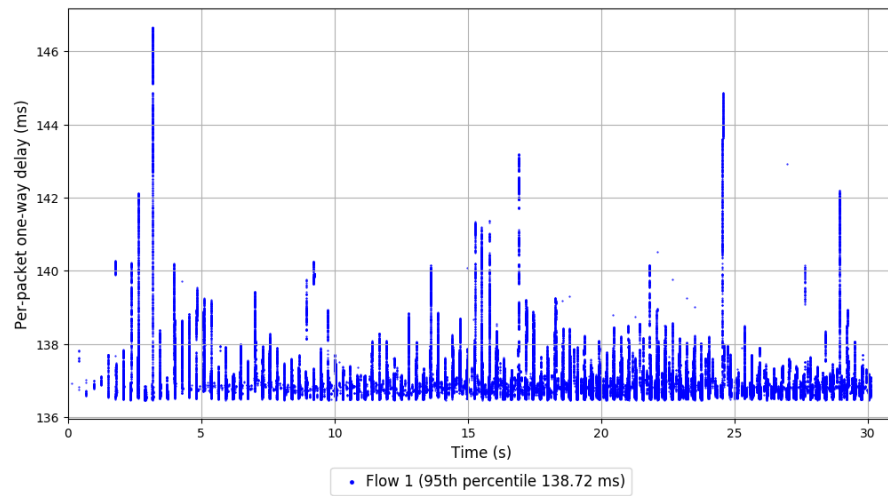
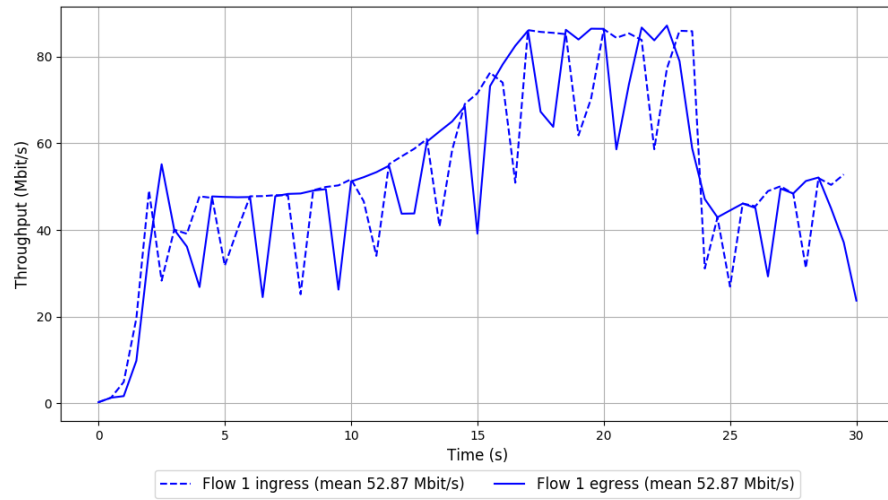
-- Flow 1:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 138.721 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-18 11:52:21

End at: 2017-09-18 11:52:51

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 143.061 ms

Loss rate: 0.05%

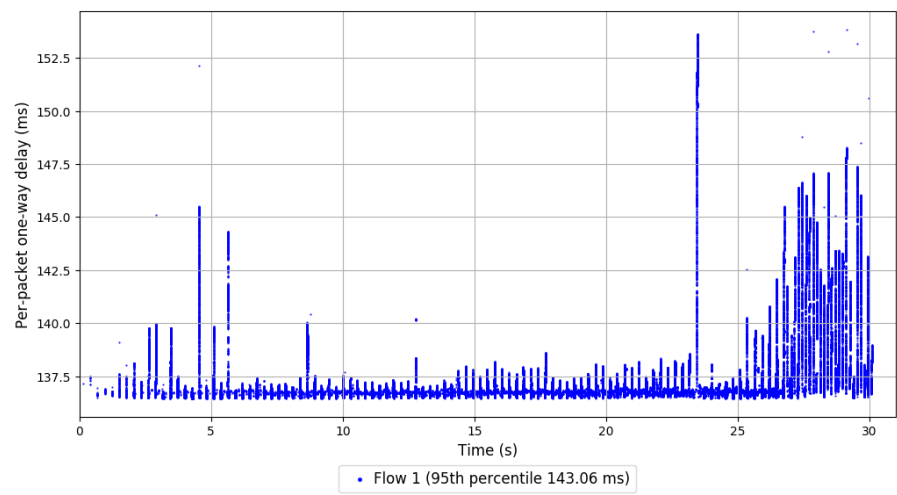
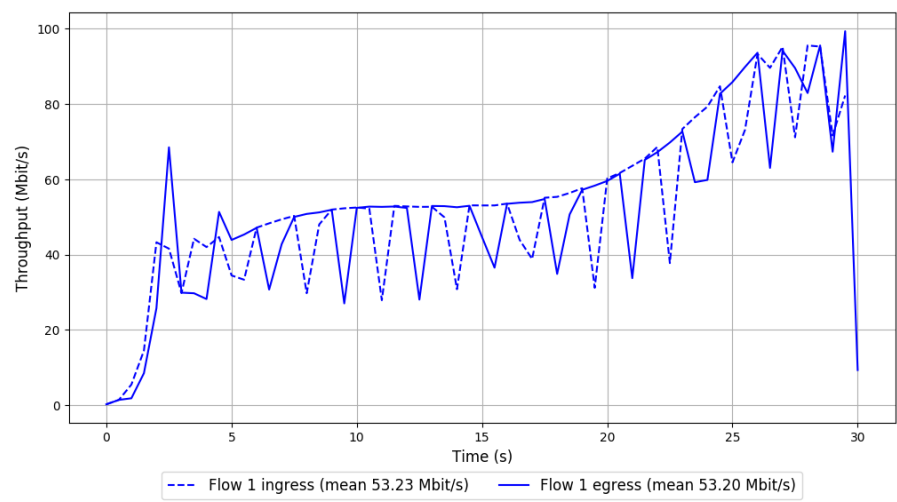
-- Flow 1:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 143.061 ms

Loss rate: 0.05%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 12:05:03

End at: 2017-09-18 12:05:33

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.50 Mbit/s

95th percentile per-packet one-way delay: 140.829 ms

Loss rate: 0.00%

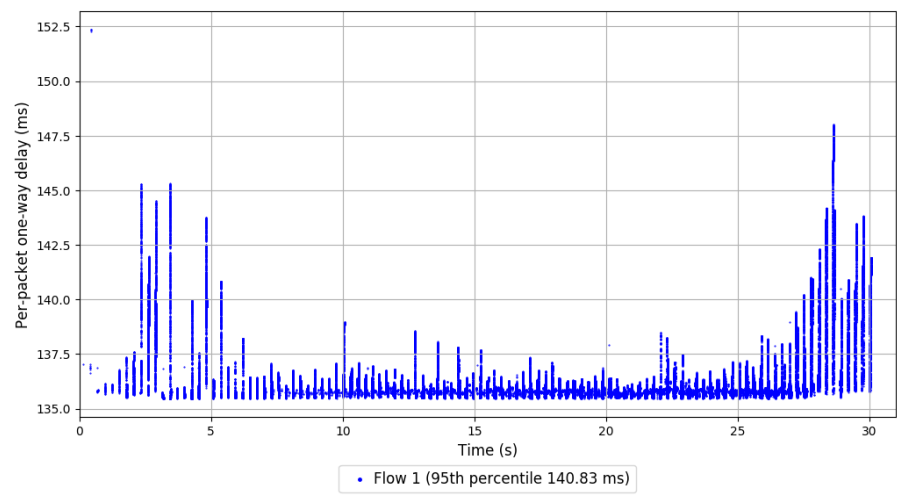
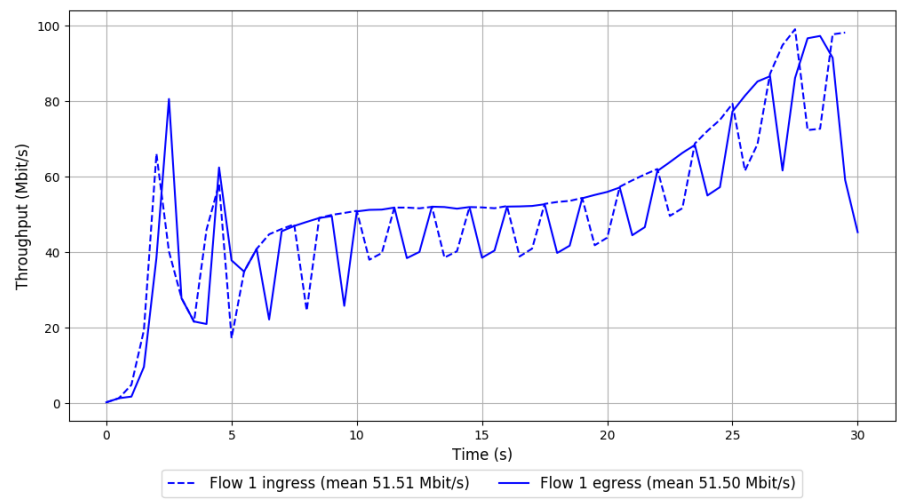
-- Flow 1:

Average throughput: 51.50 Mbit/s

95th percentile per-packet one-way delay: 140.829 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 12:16:57

End at: 2017-09-18 12:17:27

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 140.355 ms

Loss rate: 0.01%

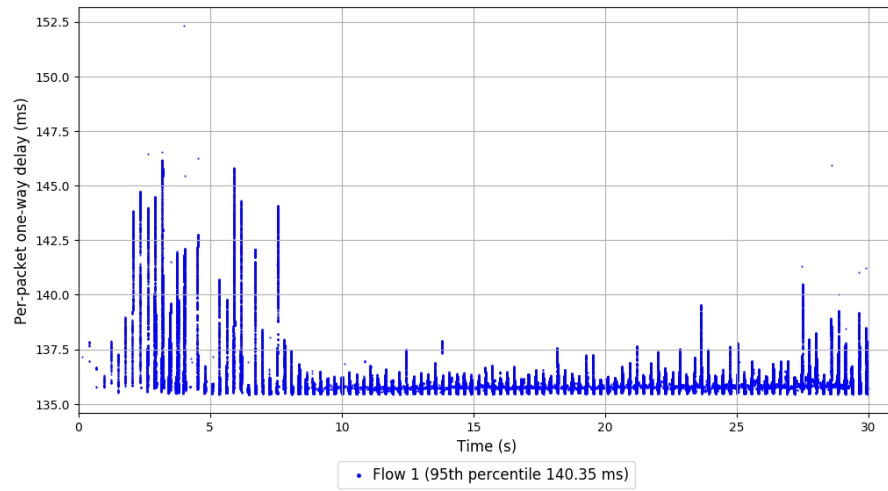
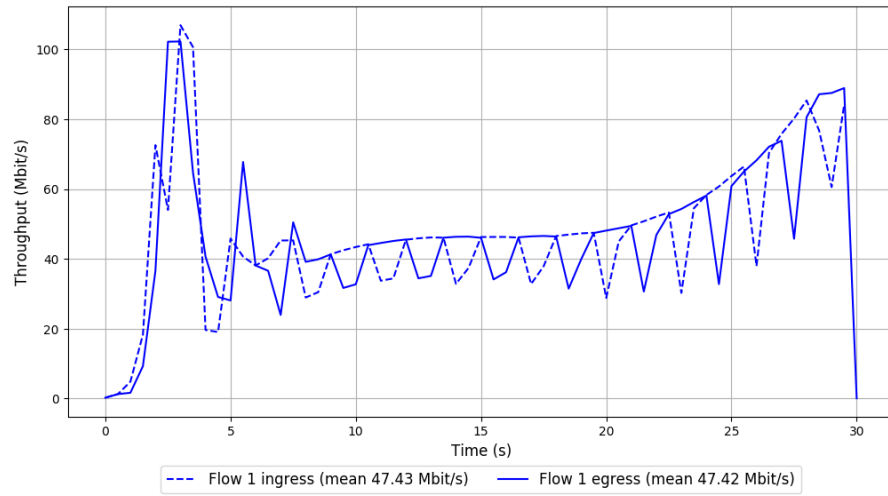
-- Flow 1:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 140.355 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

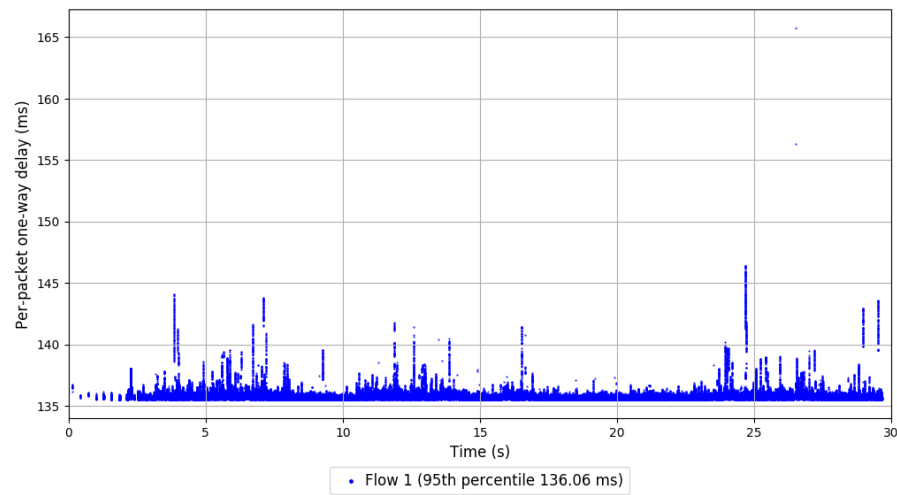
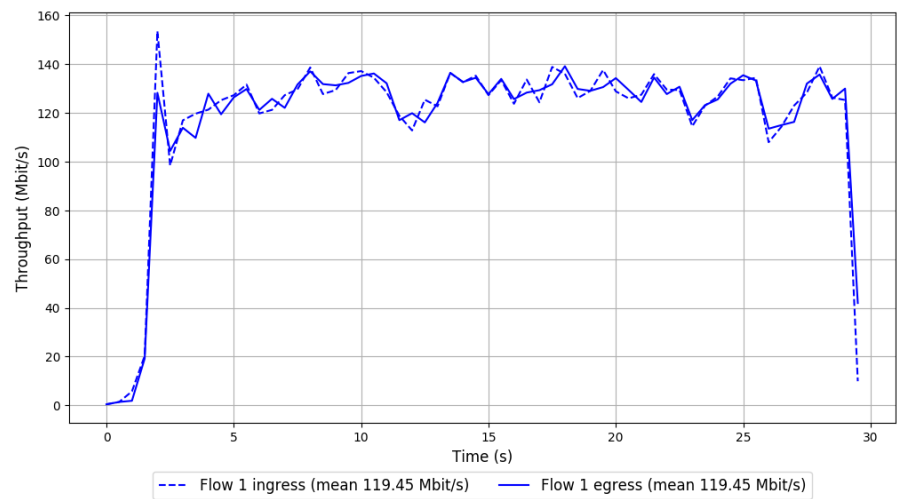


```
Run 1: Statistics of Indigo

Start at: 2017-09-18 10:34:08
End at: 2017-09-18 10:34:38

# Below is generated by plot.py at 2017-09-18 13:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.45 Mbit/s
95th percentile per-packet one-way delay: 136.058 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 119.45 Mbit/s
95th percentile per-packet one-way delay: 136.058 ms
Loss rate: 0.01%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-18 10:46:23

End at: 2017-09-18 10:46:53

Below is generated by plot.py at 2017-09-18 13:19:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 0.00%

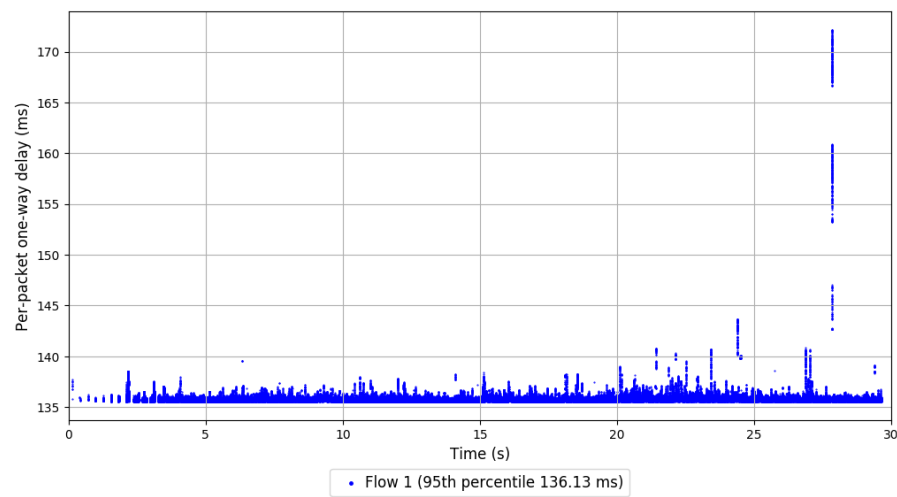
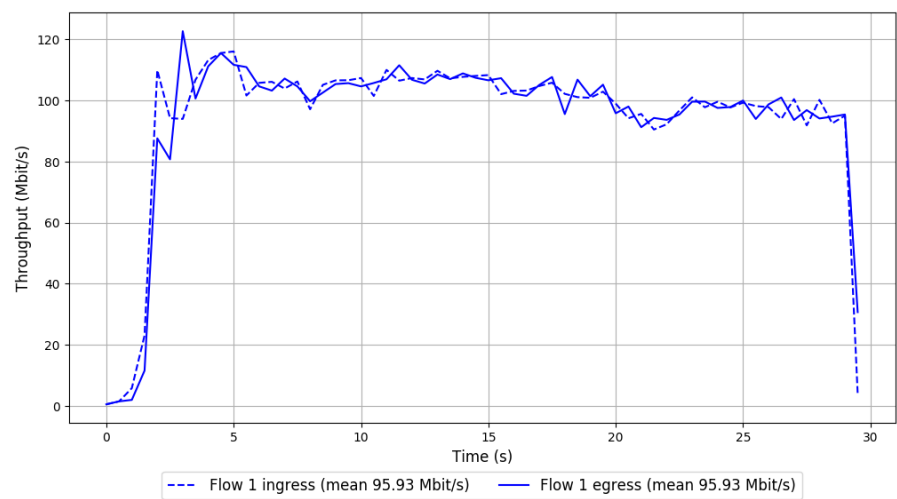
-- Flow 1:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-18 10:58:41

End at: 2017-09-18 10:59:12

Below is generated by plot.py at 2017-09-18 13:20:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.07 Mbit/s

95th percentile per-packet one-way delay: 135.770 ms

Loss rate: 0.00%

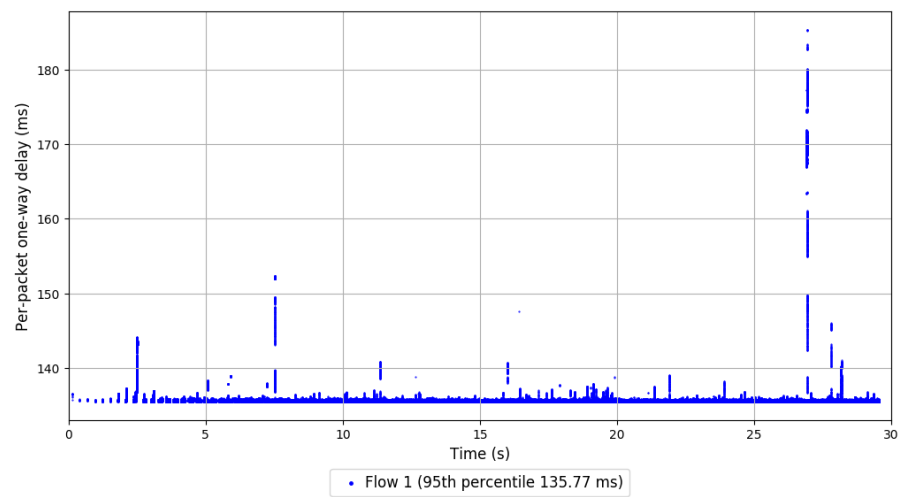
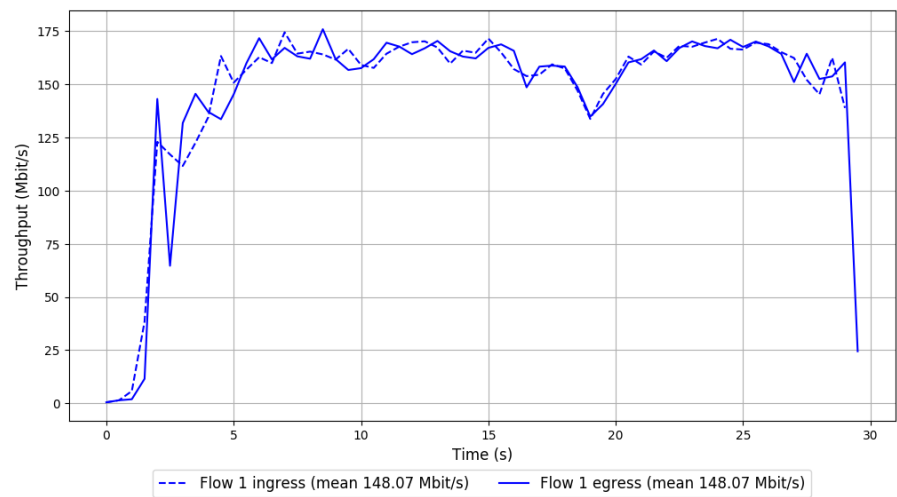
-- Flow 1:

Average throughput: 148.07 Mbit/s

95th percentile per-packet one-way delay: 135.770 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-18 11:10:52

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

Below is generated by plot.py at 2017-09-18 13:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.47 Mbit/s

95th percentile per-packet one-way delay: 135.693 ms

Loss rate: 0.00%

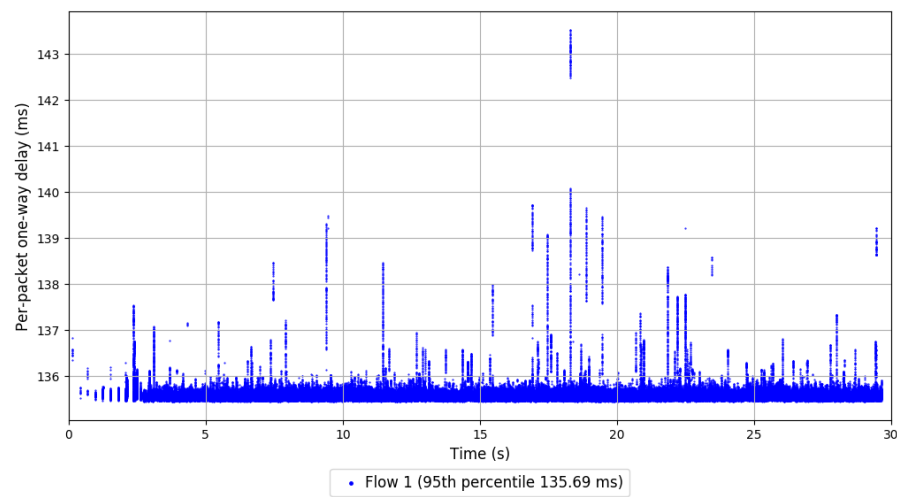
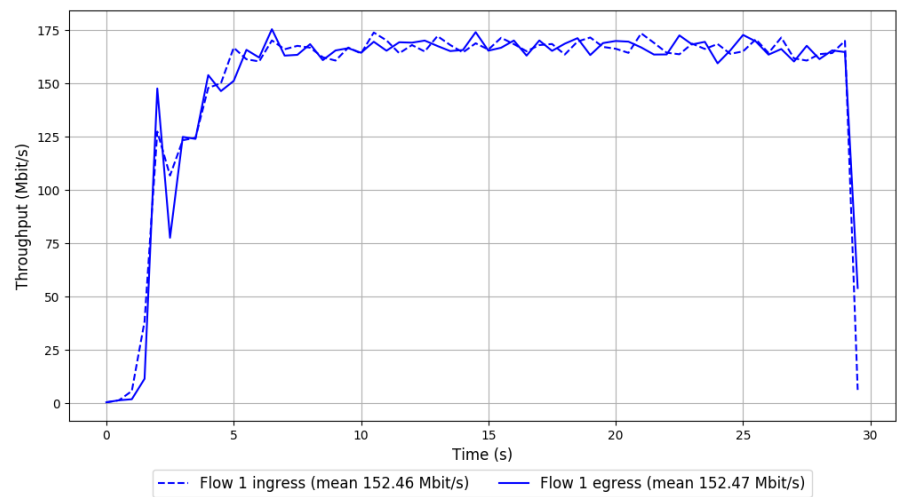
-- Flow 1:

Average throughput: 152.47 Mbit/s

95th percentile per-packet one-way delay: 135.693 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-18 11:23:12

End at: 2017-09-18 11:23:42

Below is generated by plot.py at 2017-09-18 13:20:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 135.665 ms

Loss rate: 0.00%

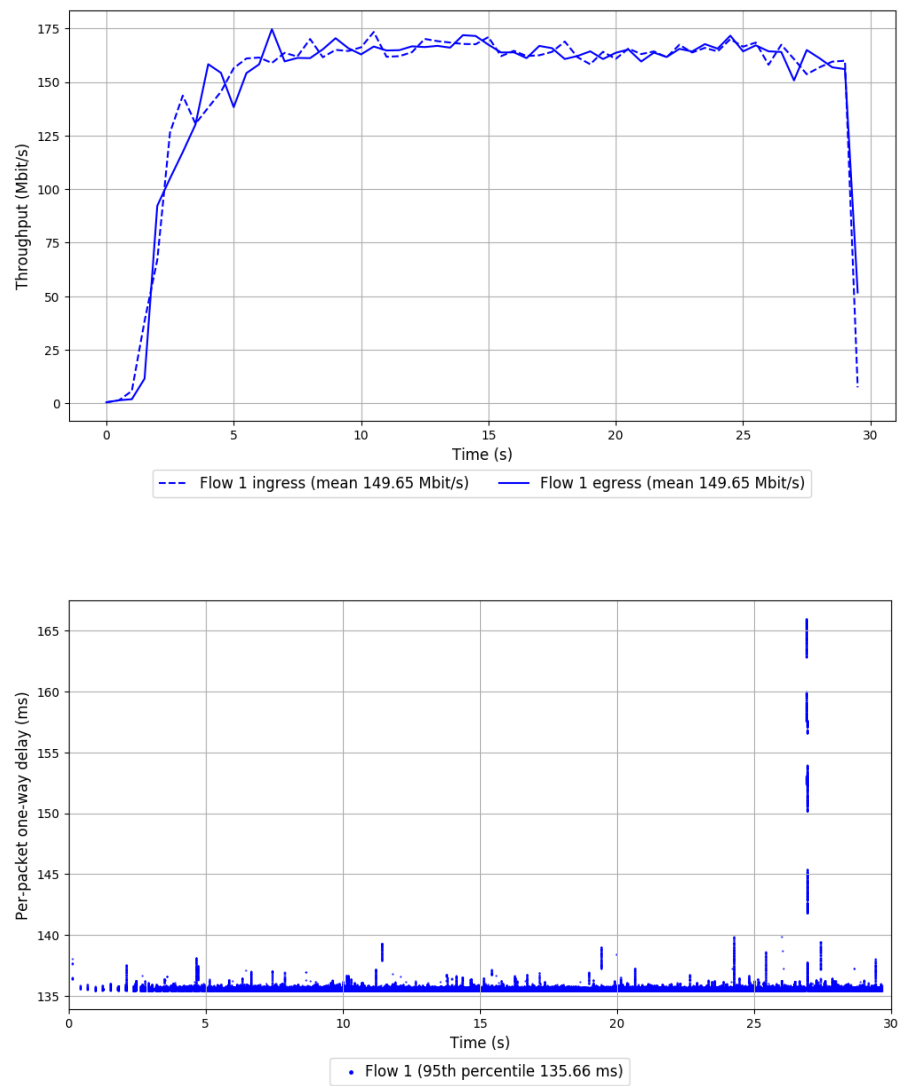
-- Flow 1:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 135.665 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-18 11:35:02

End at: 2017-09-18 11:35:32

Below is generated by plot.py at 2017-09-18 13:20:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.16 Mbit/s

95th percentile per-packet one-way delay: 136.737 ms

Loss rate: 0.00%

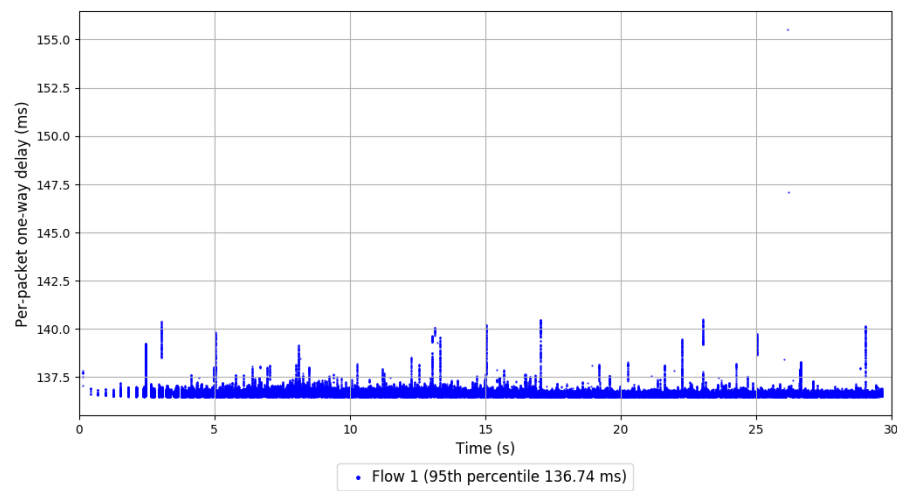
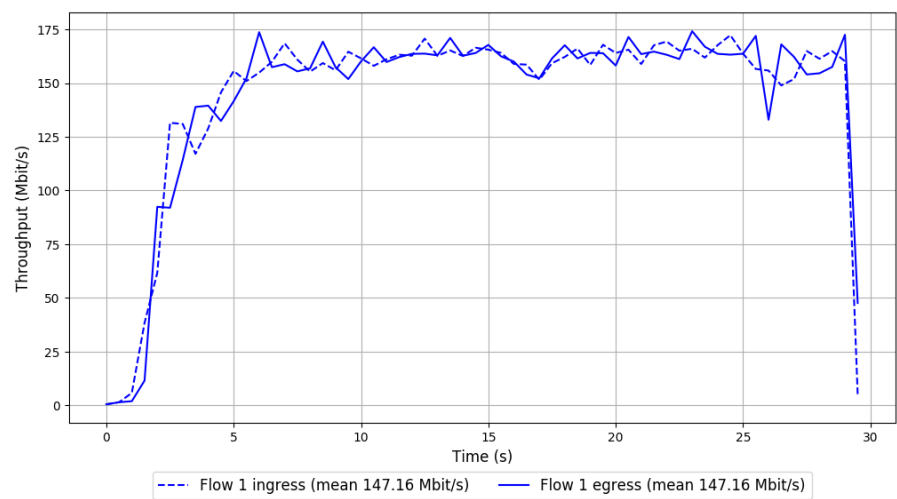
-- Flow 1:

Average throughput: 147.16 Mbit/s

95th percentile per-packet one-way delay: 136.737 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-18 11:47:00

End at: 2017-09-18 11:47:30

Below is generated by plot.py at 2017-09-18 13:20:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.01 Mbit/s

95th percentile per-packet one-way delay: 136.725 ms

Loss rate: 0.00%

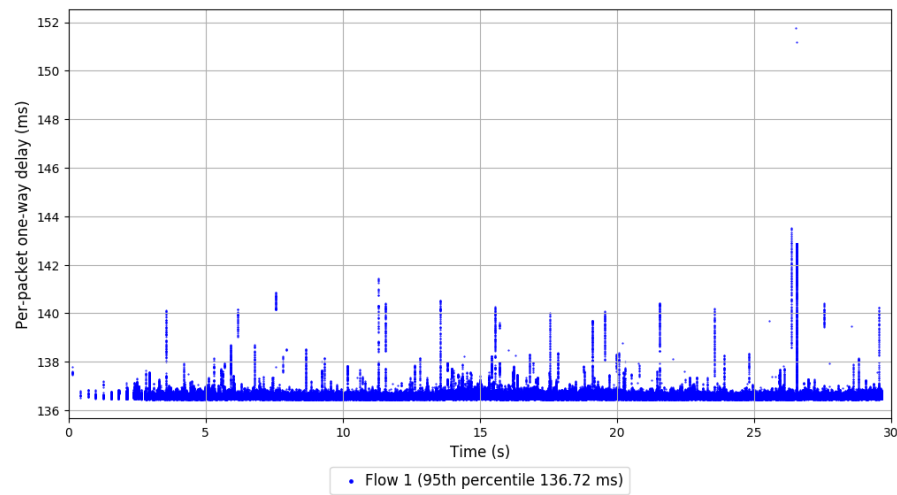
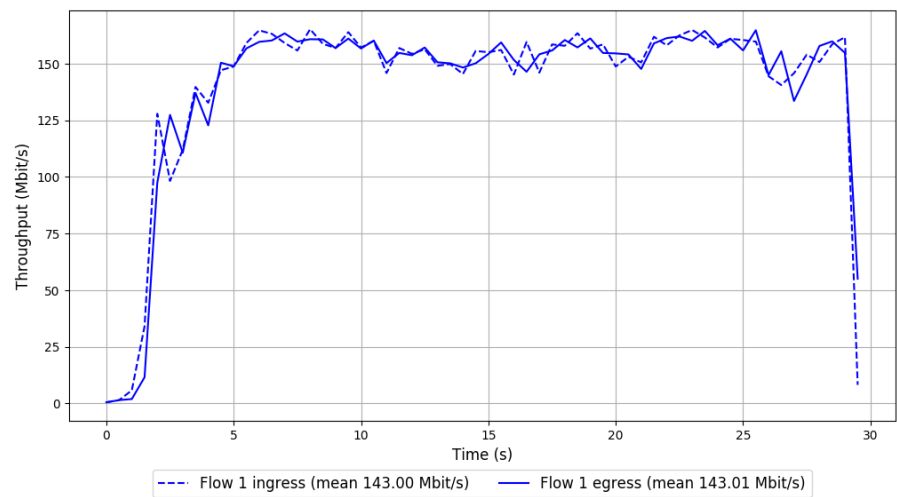
-- Flow 1:

Average throughput: 143.01 Mbit/s

95th percentile per-packet one-way delay: 136.725 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-18 11:59:40

End at: 2017-09-18 12:00:11

Below is generated by plot.py at 2017-09-18 13:21:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.50 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 0.00%

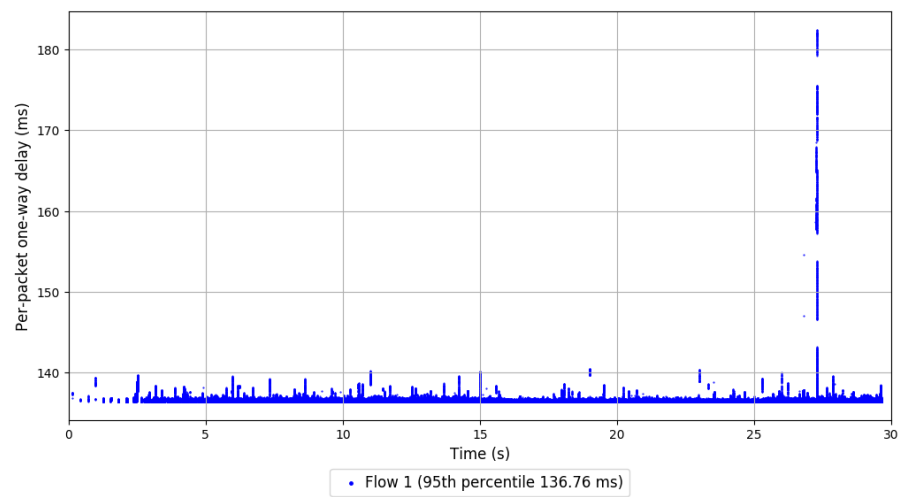
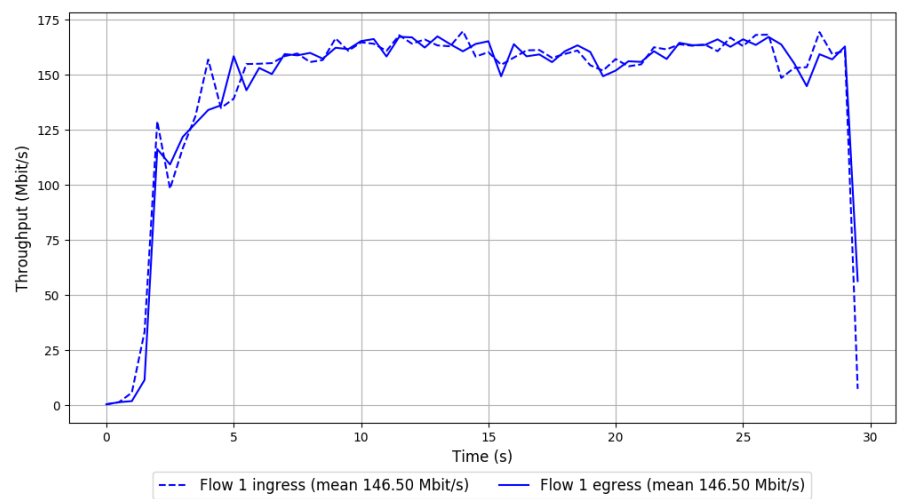
-- Flow 1:

Average throughput: 146.50 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

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

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

Below is generated by plot.py at 2017-09-18 13:22:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.14 Mbit/s

95th percentile per-packet one-way delay: 135.827 ms

Loss rate: 0.00%

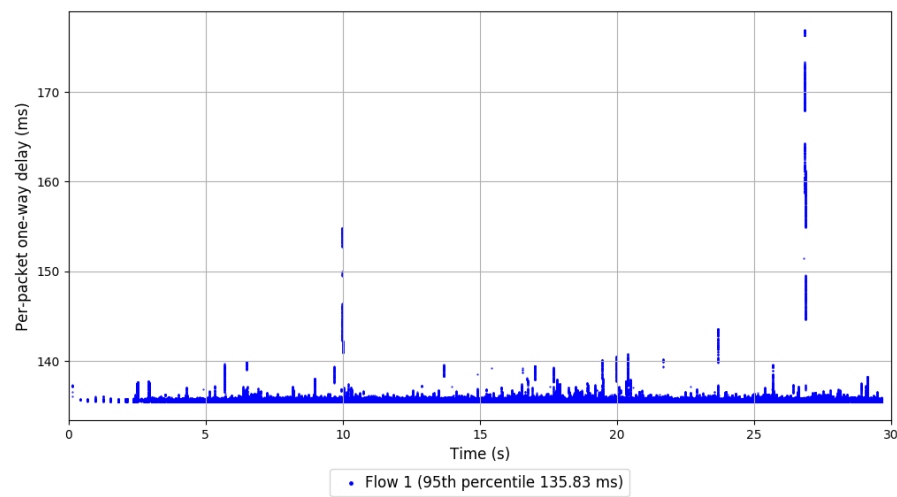
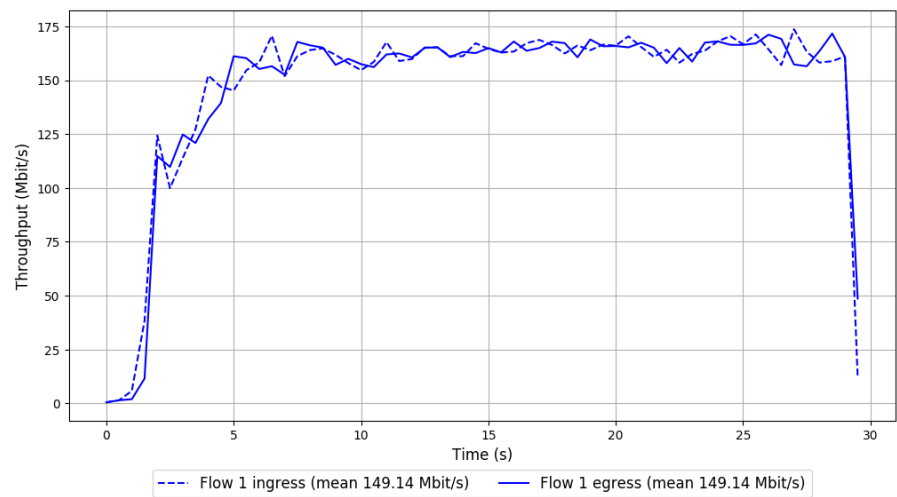
-- Flow 1:

Average throughput: 149.14 Mbit/s

95th percentile per-packet one-way delay: 135.827 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-18 12:23:48

End at: 2017-09-18 12:24:18

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.62 Mbit/s

95th percentile per-packet one-way delay: 135.724 ms

Loss rate: 0.00%

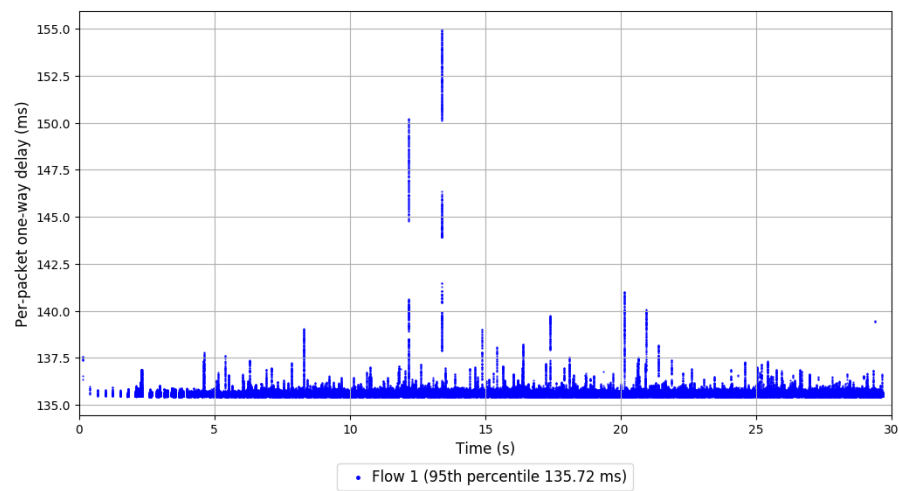
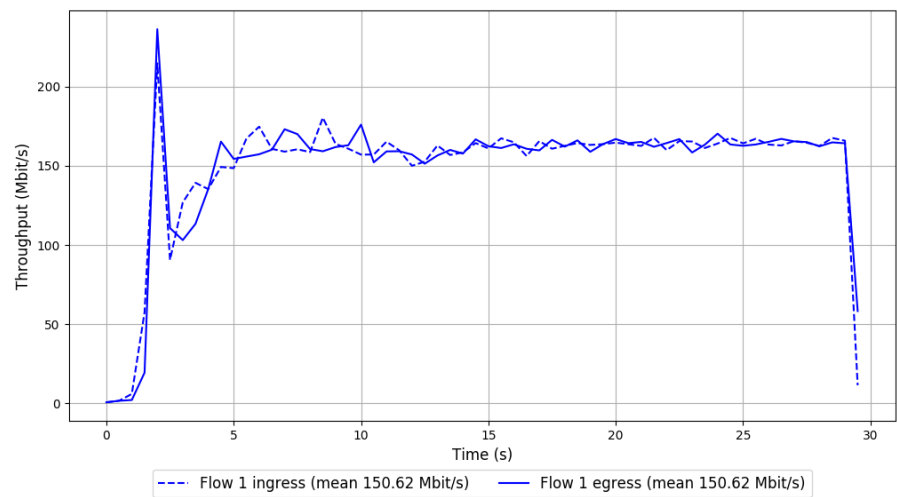
-- Flow 1:

Average throughput: 150.62 Mbit/s

95th percentile per-packet one-way delay: 135.724 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

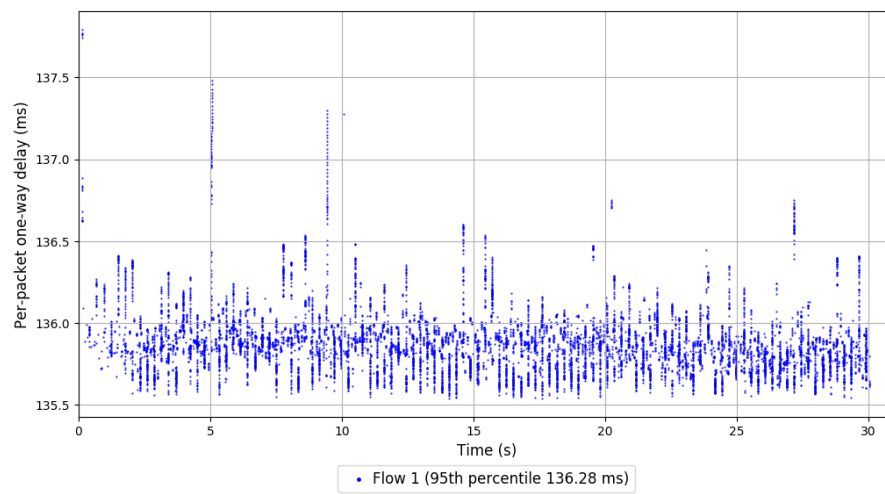
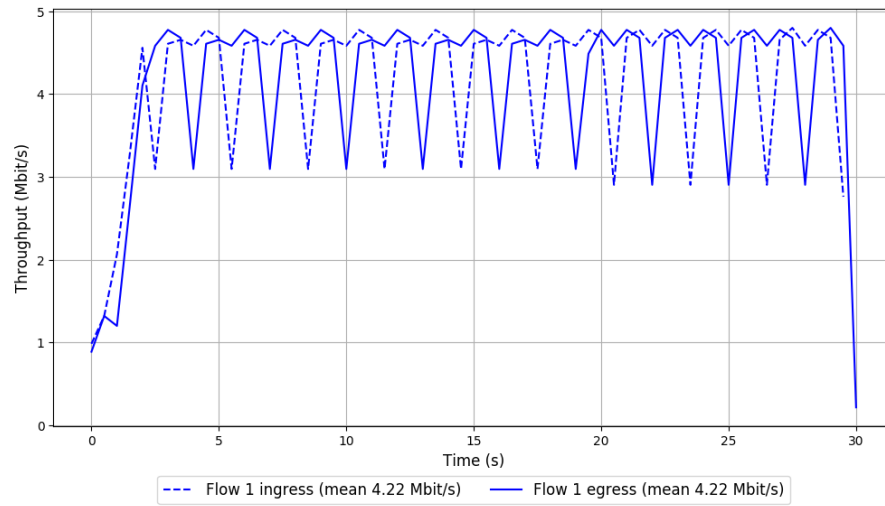


```
Run 1: Statistics of KohoCC

Start at: 2017-09-18 10:32:42
End at: 2017-09-18 10:33:12

# Below is generated by plot.py at 2017-09-18 13:22:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 136.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 136.284 ms
Loss rate: 0.00%
```

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

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

End at: 2017-09-18 10:45:27

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.333 ms

Loss rate: 0.00%

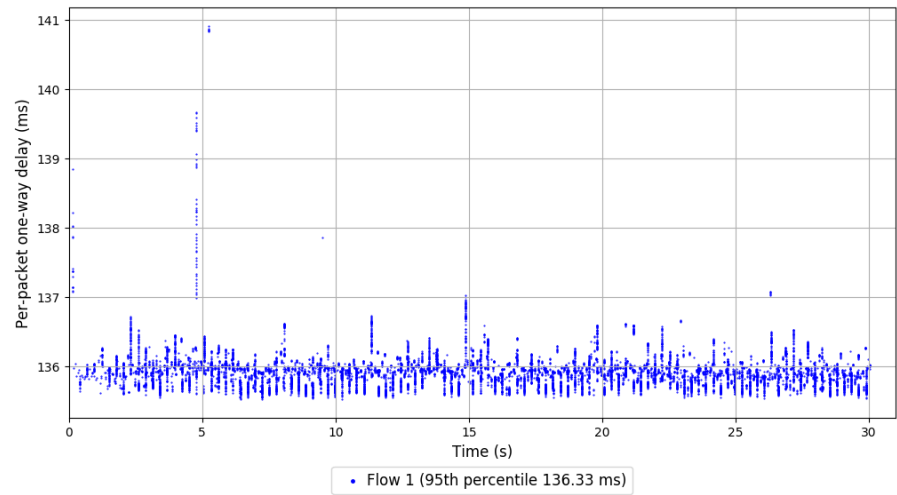
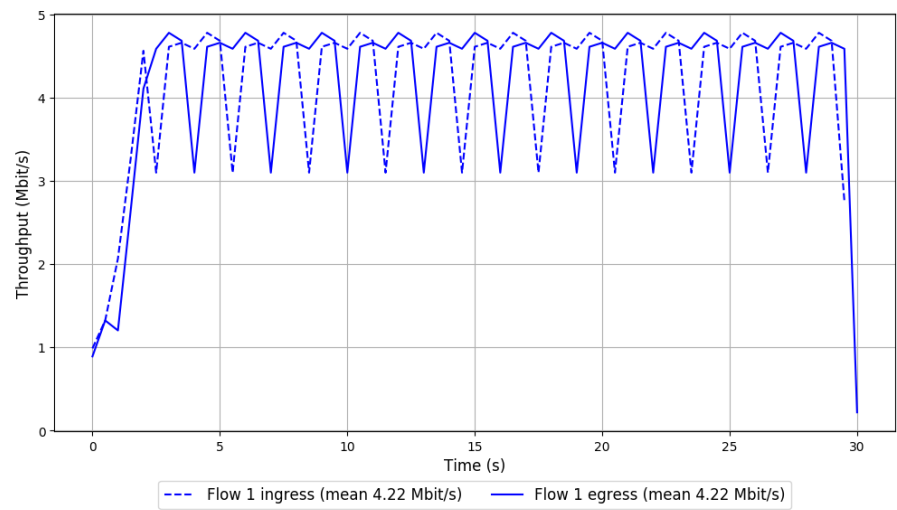
-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.333 ms

Loss rate: 0.00%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-09-18 10:57:16

End at: 2017-09-18 10:57:46

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.425 ms

Loss rate: 0.00%

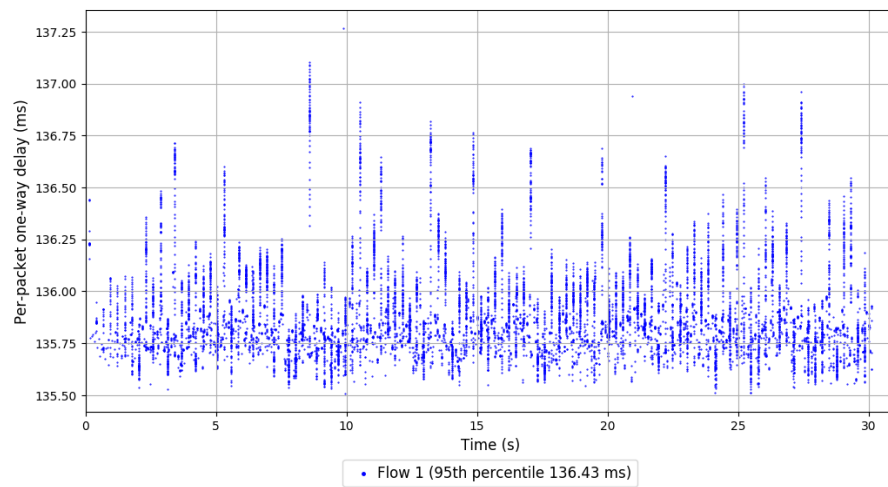
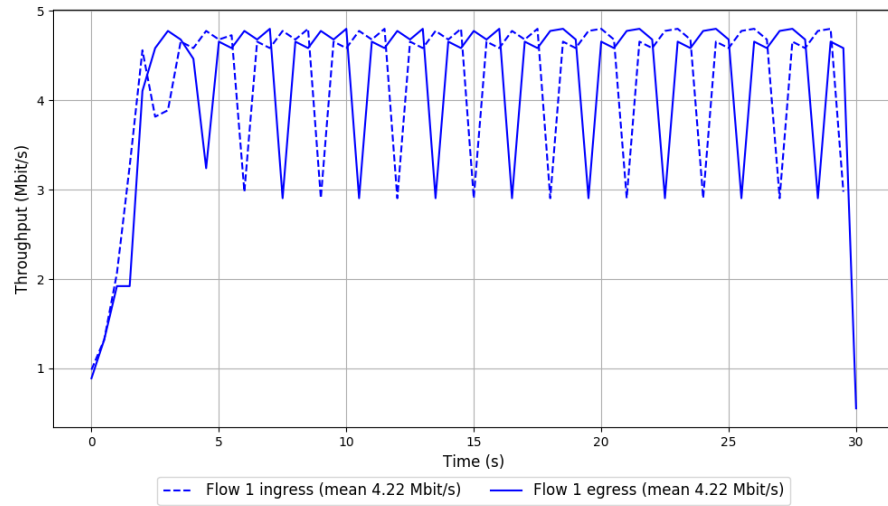
-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.425 ms

Loss rate: 0.00%

Run 3: Report of KohoCC — Data Link

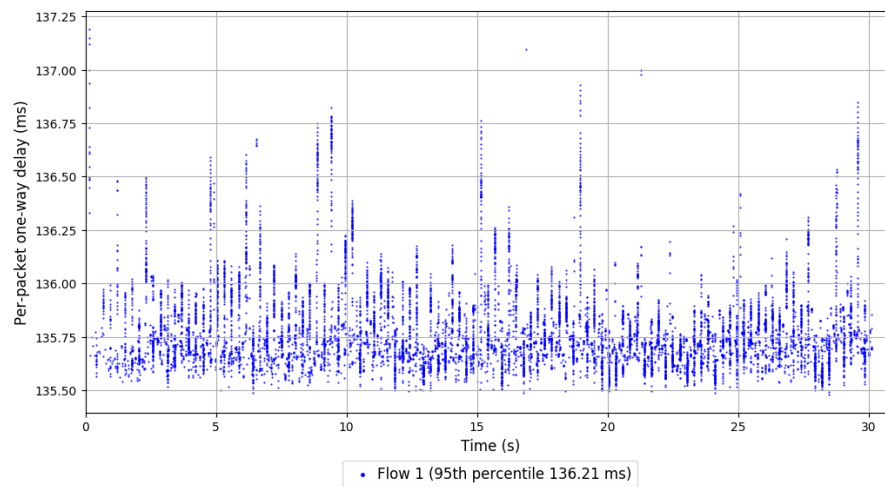
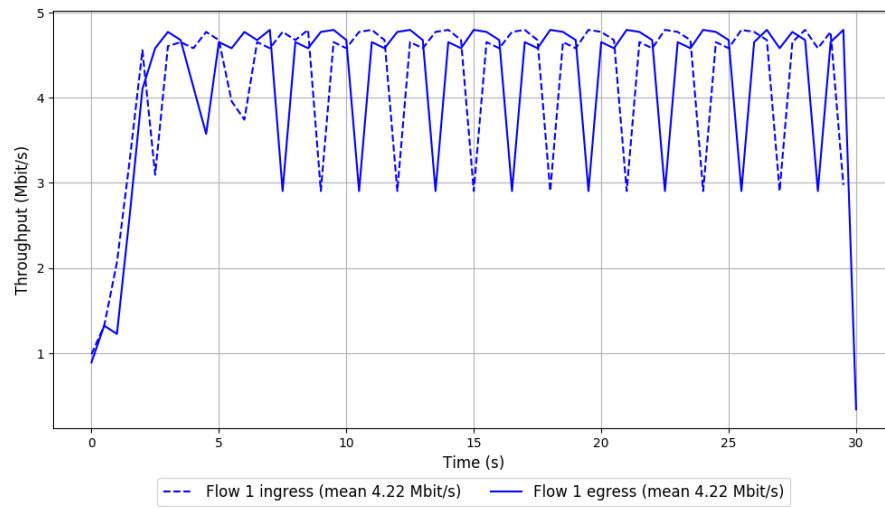


```
Run 4: Statistics of KohoCC

Start at: 2017-09-18 11:09:27
End at: 2017-09-18 11:09:57

# Below is generated by plot.py at 2017-09-18 13:22:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 136.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 136.211 ms
Loss rate: 0.00%
```

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-09-18 11:21:47

End at: 2017-09-18 11:22:17

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.280 ms

Loss rate: 0.00%

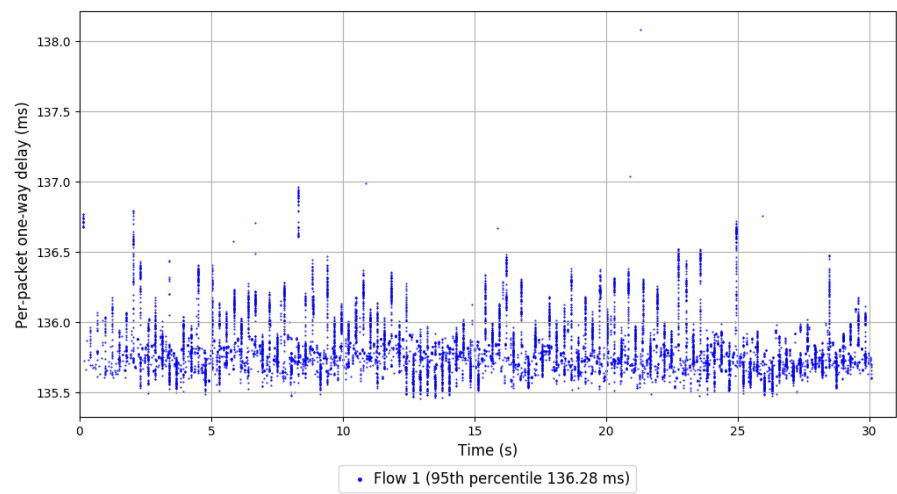
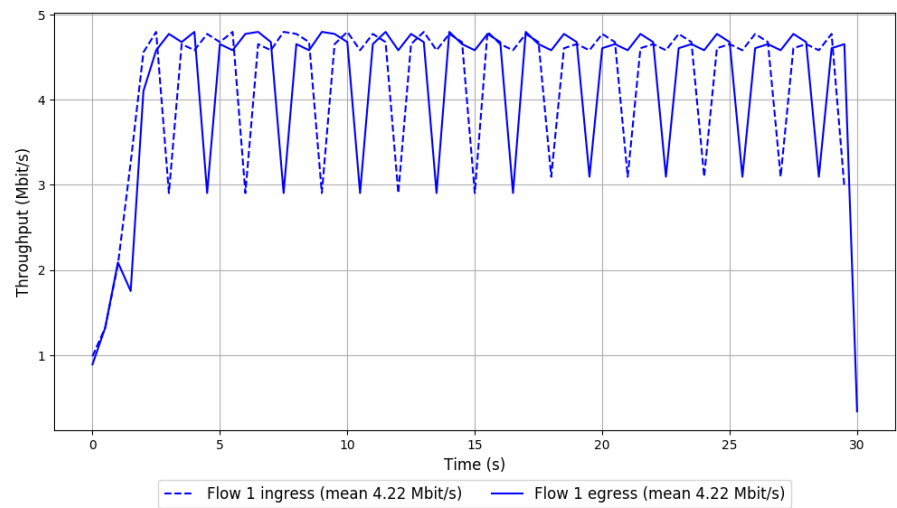
-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.280 ms

Loss rate: 0.00%

Run 5: Report of KohoCC — Data Link

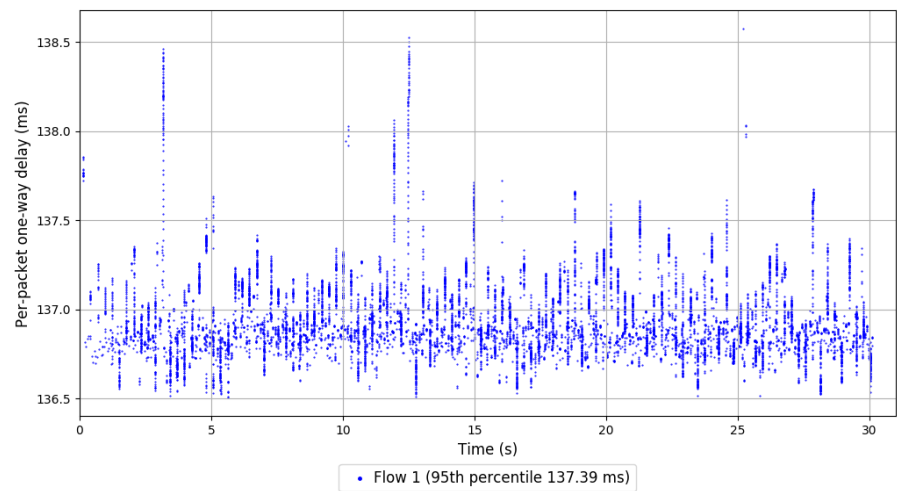
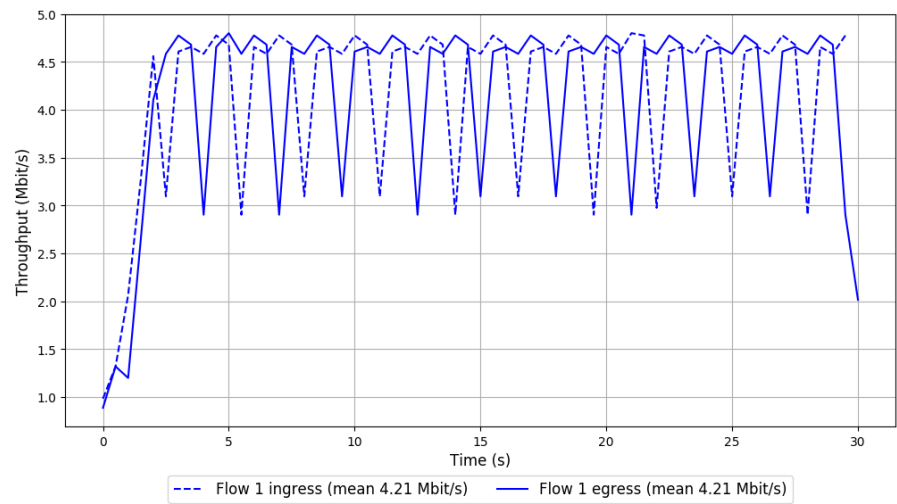


```
Run 6: Statistics of KohoCC

Start at: 2017-09-18 11:33:37
End at: 2017-09-18 11:34:07

# Below is generated by plot.py at 2017-09-18 13:22:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 137.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 137.388 ms
Loss rate: 0.00%
```

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-09-18 11:45:34

End at: 2017-09-18 11:46:04

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 137.432 ms

Loss rate: 0.00%

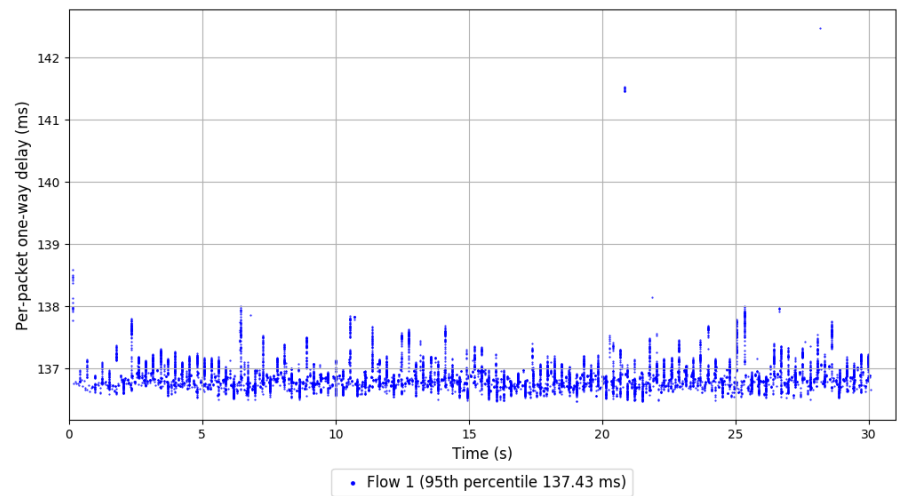
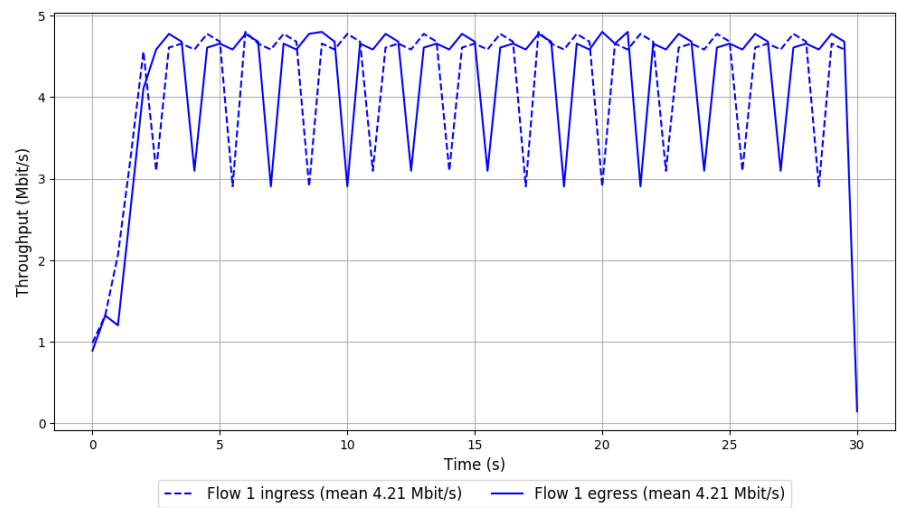
-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 137.432 ms

Loss rate: 0.00%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-09-18 11:58:15

End at: 2017-09-18 11:58:45

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 137.337 ms

Loss rate: 0.00%

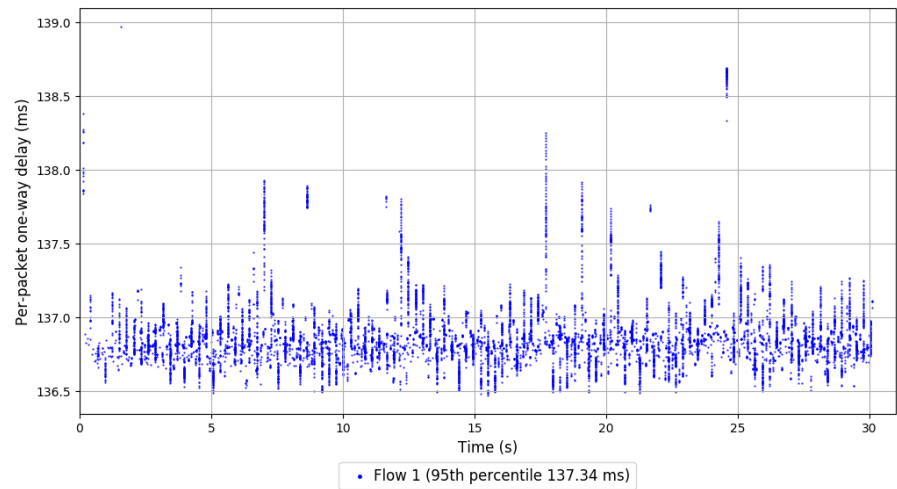
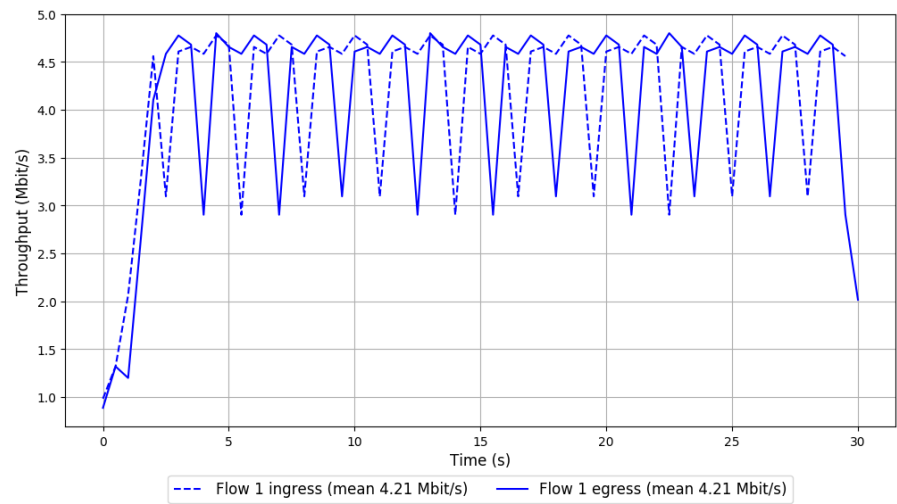
-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 137.337 ms

Loss rate: 0.00%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-09-18 12:10:38

End at: 2017-09-18 12:11:08

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.202 ms

Loss rate: 0.00%

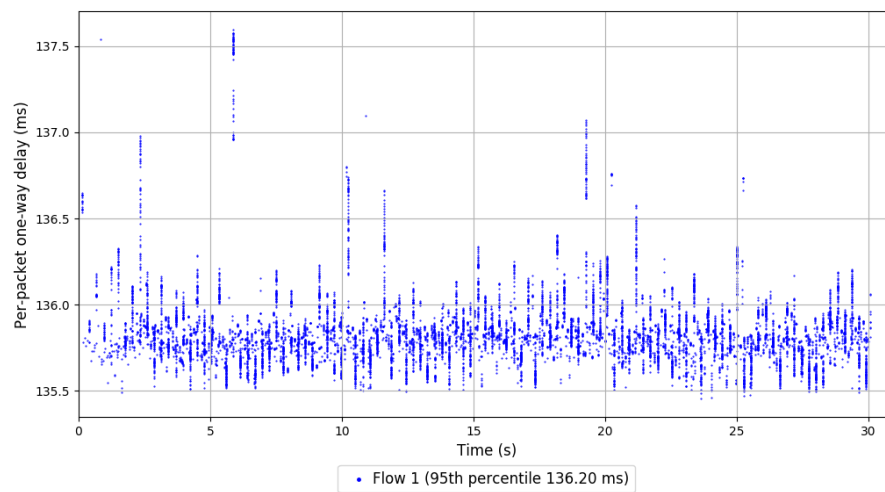
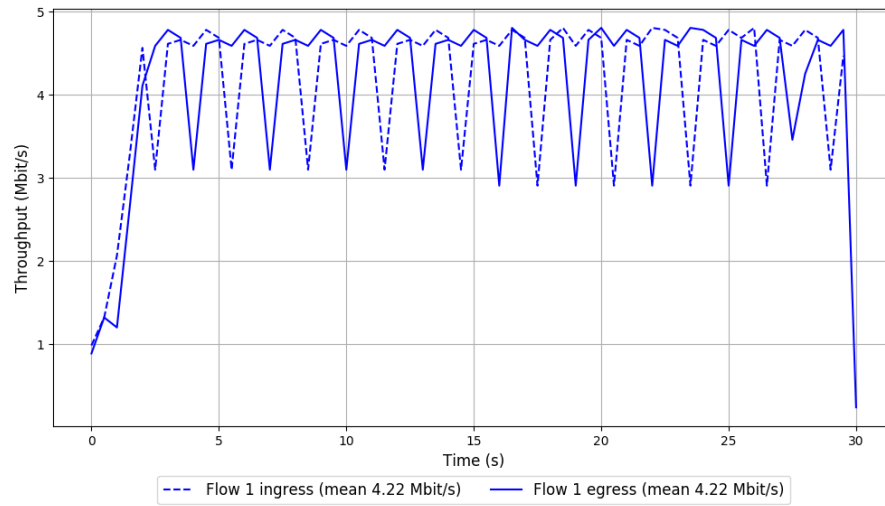
-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.202 ms

Loss rate: 0.00%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: 2017-09-18 12:22:23

End at: 2017-09-18 12:22:53

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.287 ms

Loss rate: 0.00%

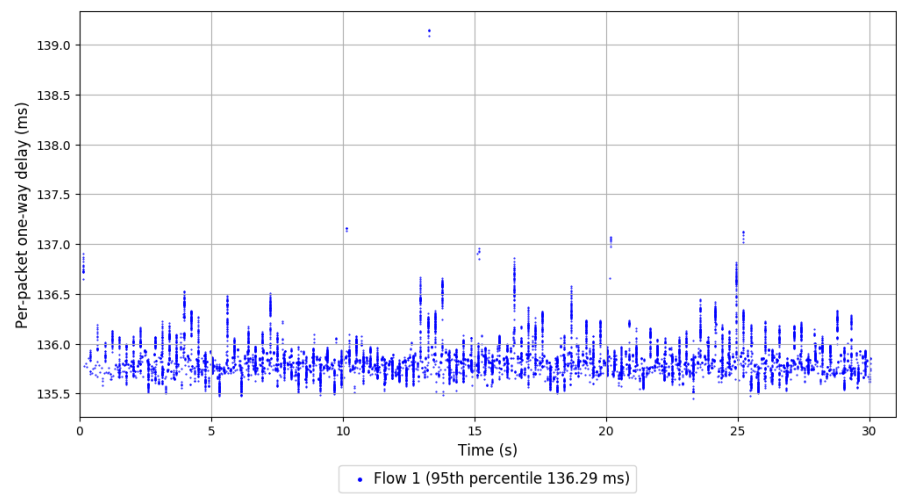
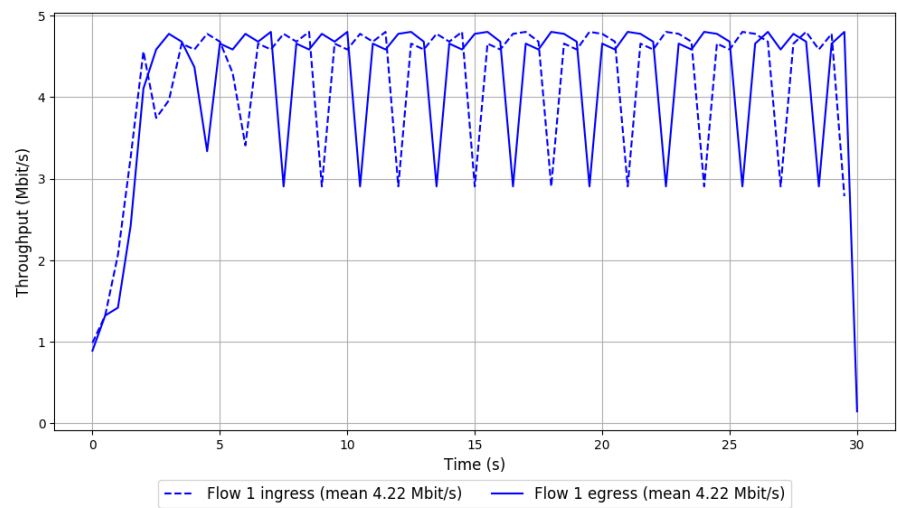
-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 136.287 ms

Loss rate: 0.00%

Run 10: Report of KohoCC — Data Link

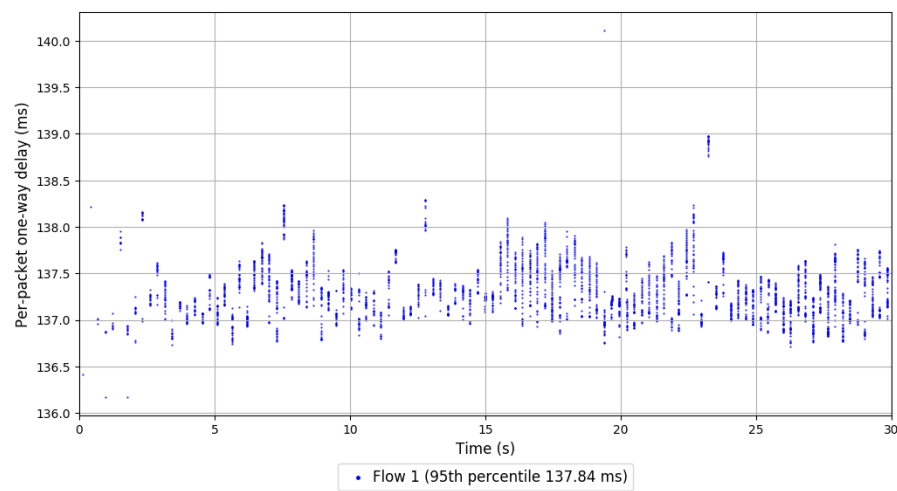
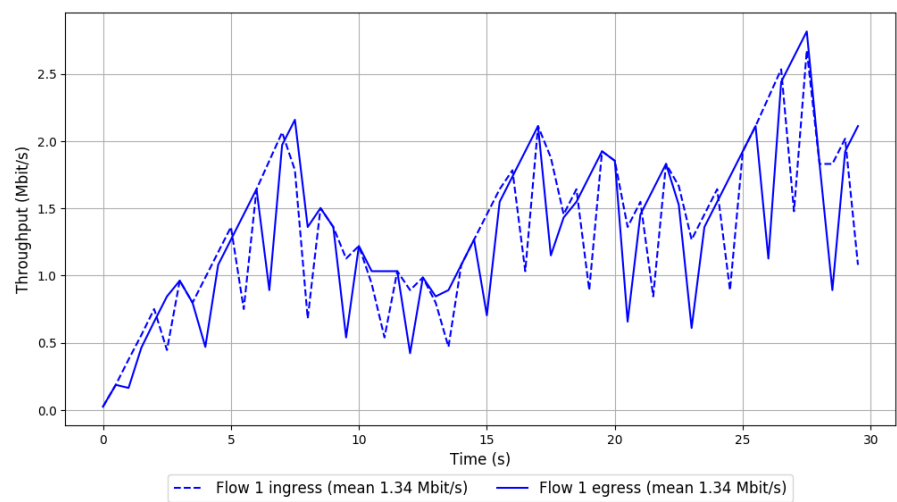


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-18 10:26:20
End at: 2017-09-18 10:26:50

# Below is generated by plot.py at 2017-09-18 13:22:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 137.845 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 137.845 ms
Loss rate: 0.18%
```


Run 1: Report of LEDBAT — Data Link

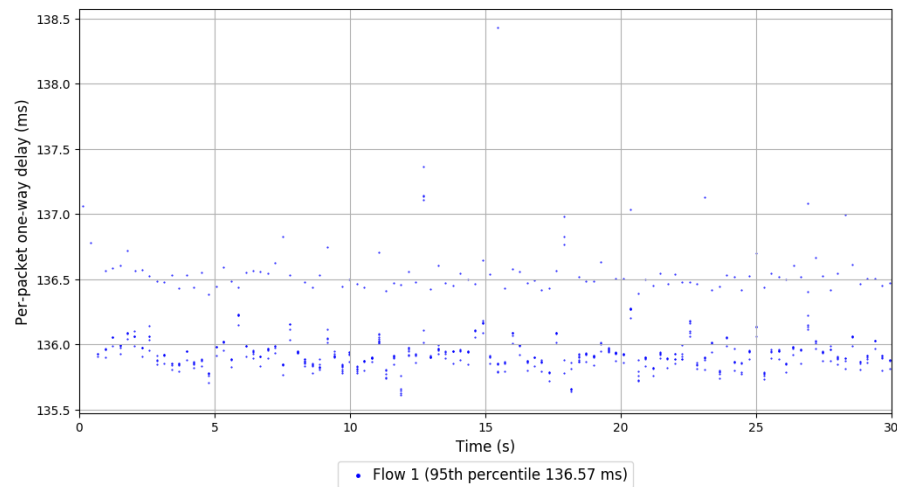
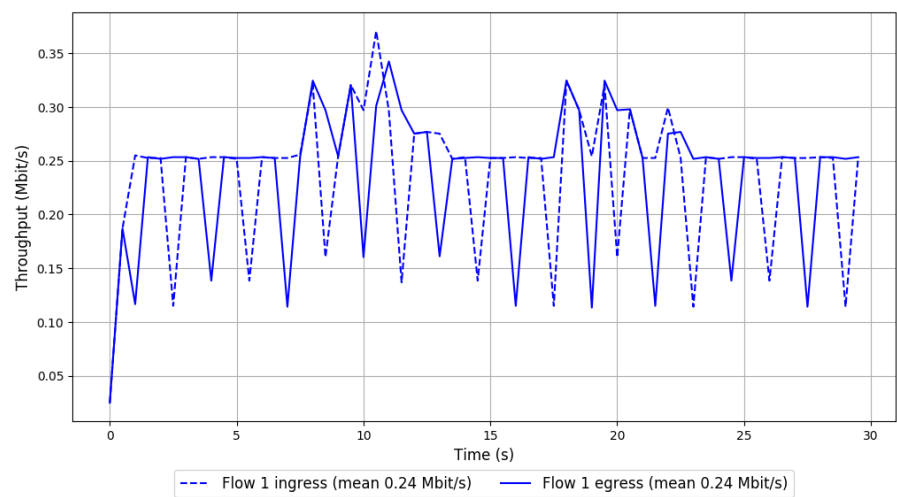


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-18 10:38:17
End at: 2017-09-18 10:38:47

# Below is generated by plot.py at 2017-09-18 13:22:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.569 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-18 10:50:58

End at: 2017-09-18 10:51:28

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 136.610 ms

Loss rate: 0.00%

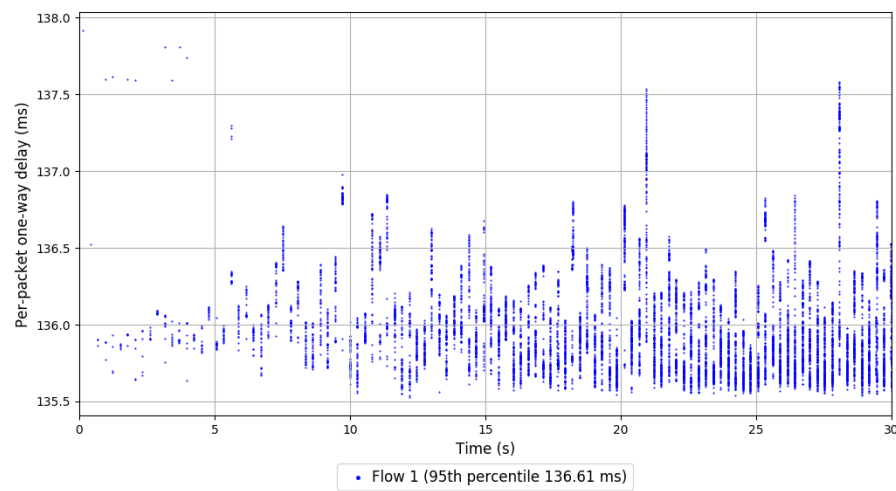
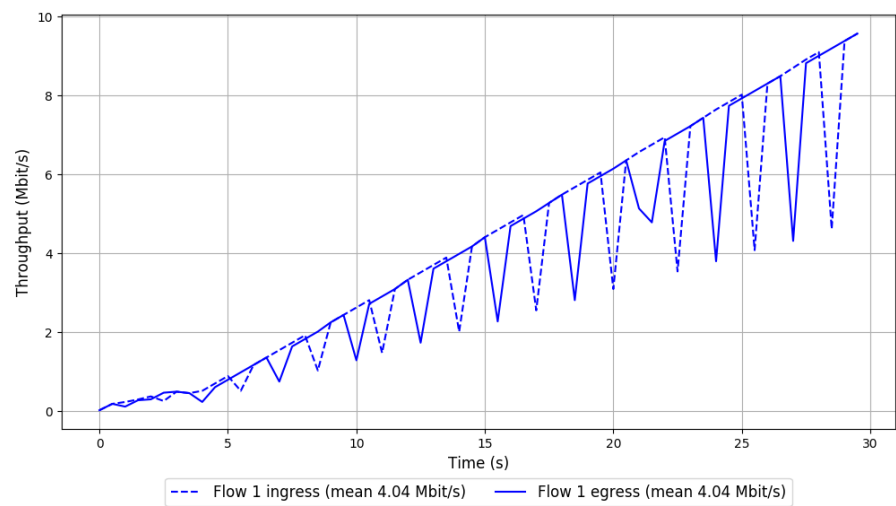
-- Flow 1:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 136.610 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-18 11:02:52

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

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 136.518 ms

Loss rate: 0.00%

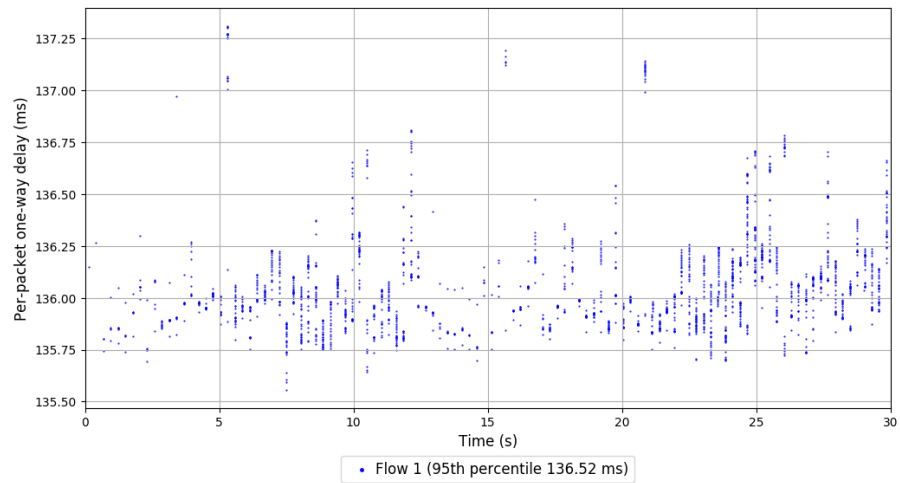
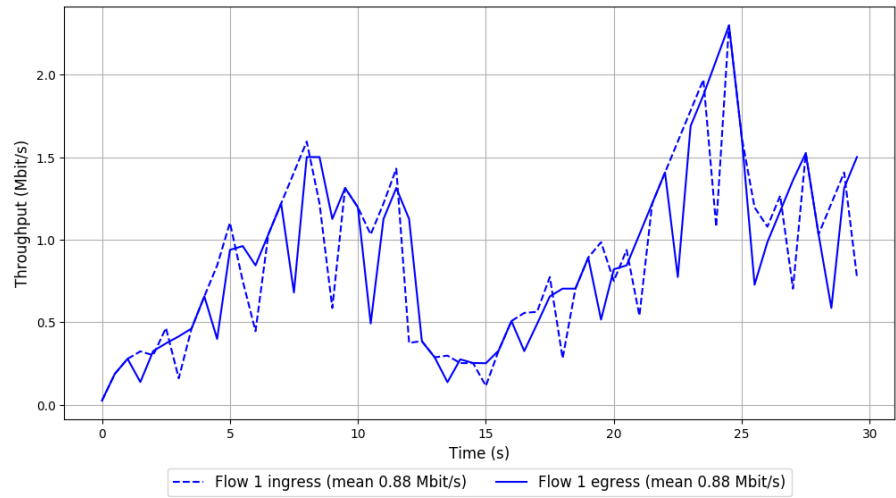
-- Flow 1:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 136.518 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-18 11:15:27

End at: 2017-09-18 11:15:57

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 136.344 ms

Loss rate: 0.00%

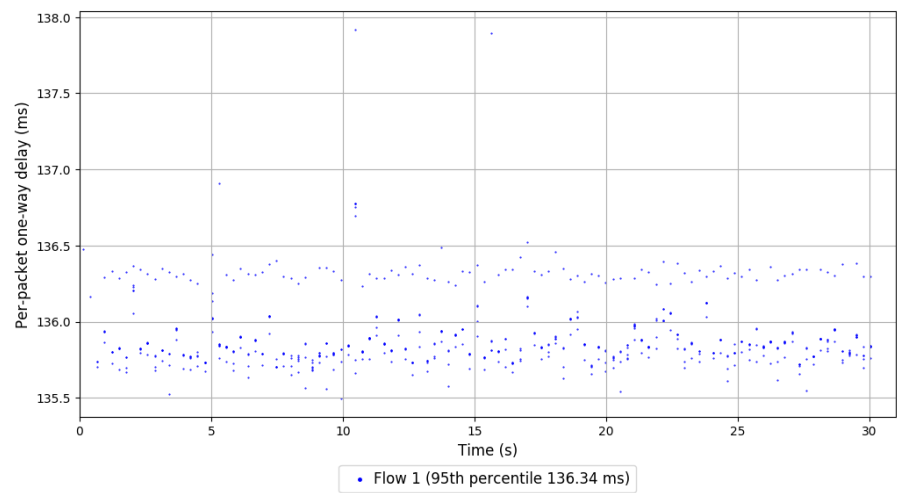
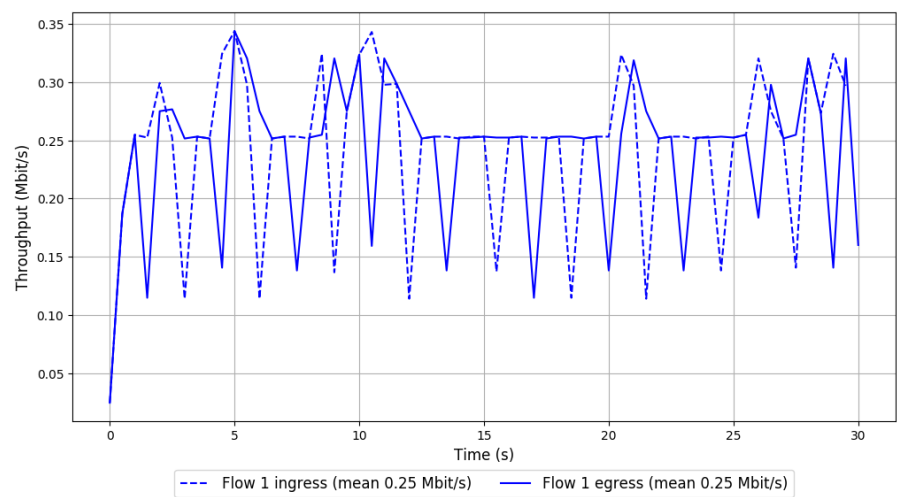
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 136.344 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-18 11:27:23

End at: 2017-09-18 11:27:53

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 136.634 ms

Loss rate: 0.00%

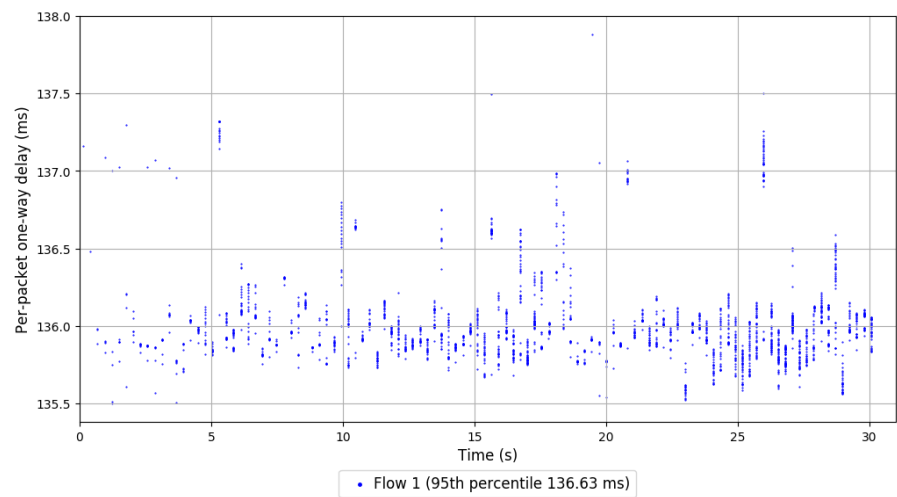
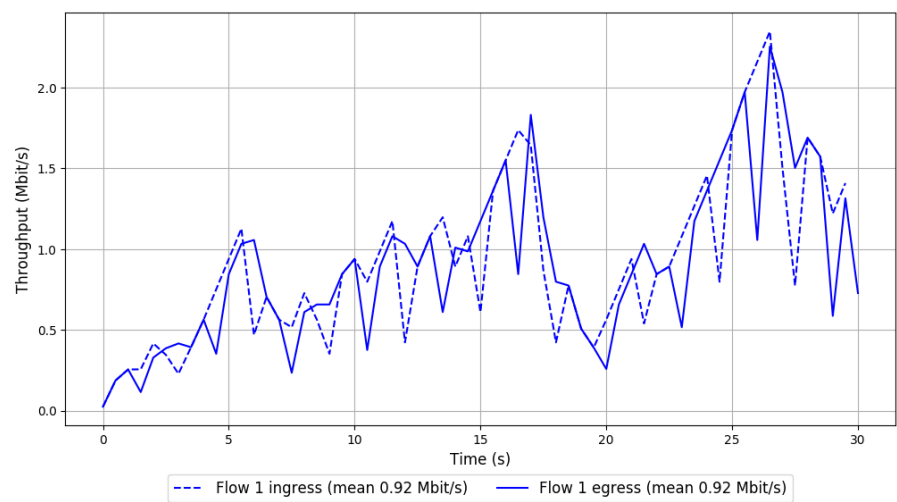
-- Flow 1:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 136.634 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-18 11:39:12

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

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 137.540 ms

Loss rate: 0.13%

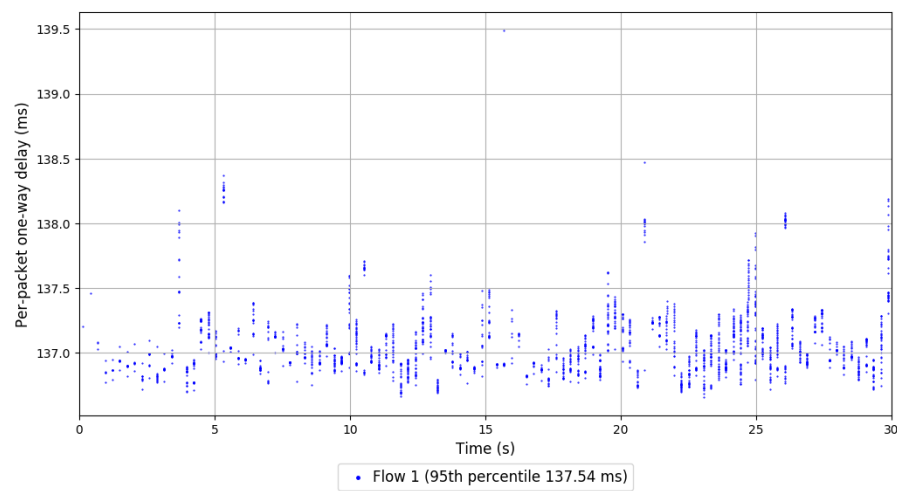
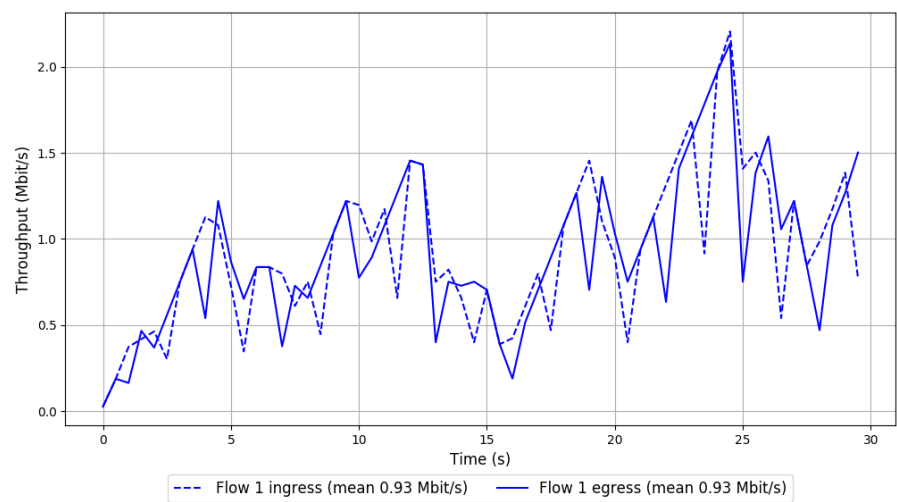
-- Flow 1:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 137.540 ms

Loss rate: 0.13%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-18 11:51:39

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

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 137.395 ms

Loss rate: 0.00%

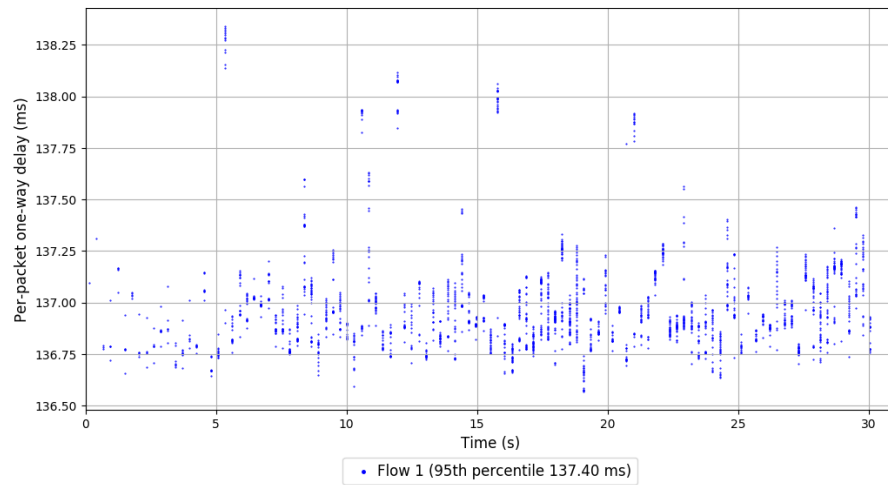
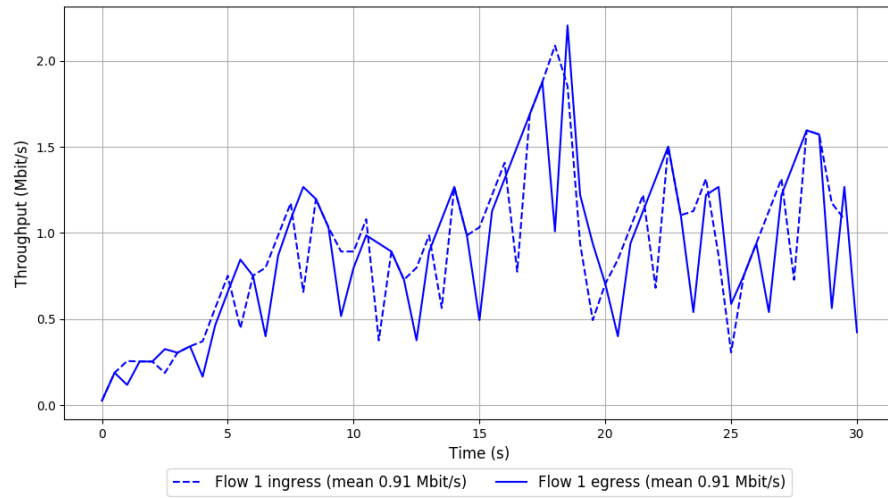
-- Flow 1:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 137.395 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-18 12:04:20

End at: 2017-09-18 12:04:50

Below is generated by plot.py at 2017-09-18 13:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 136.410 ms

Loss rate: 0.08%

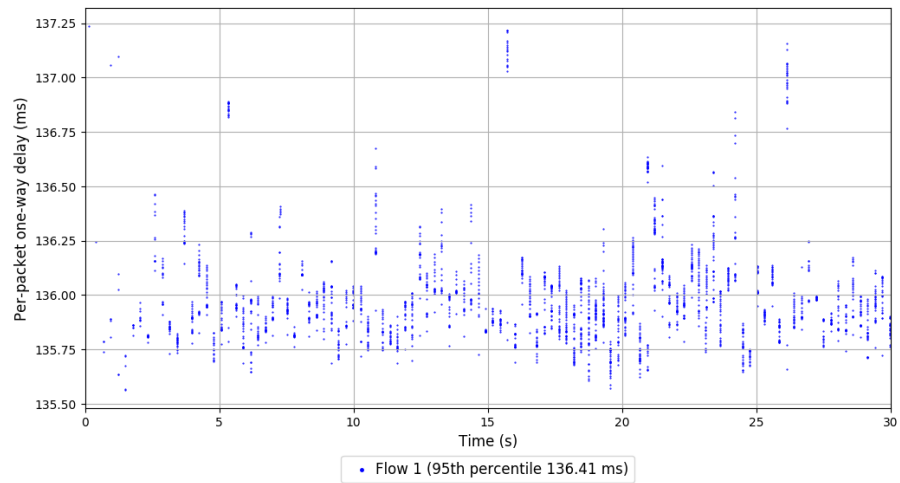
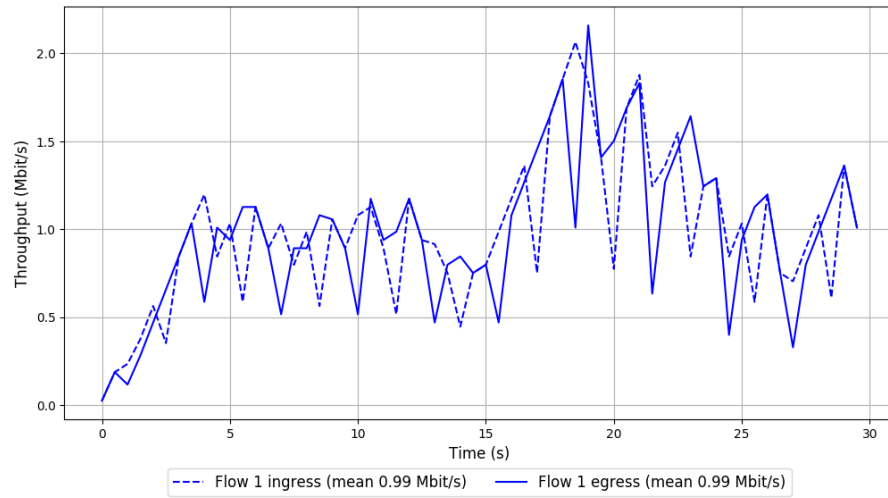
-- Flow 1:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 136.410 ms

Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link

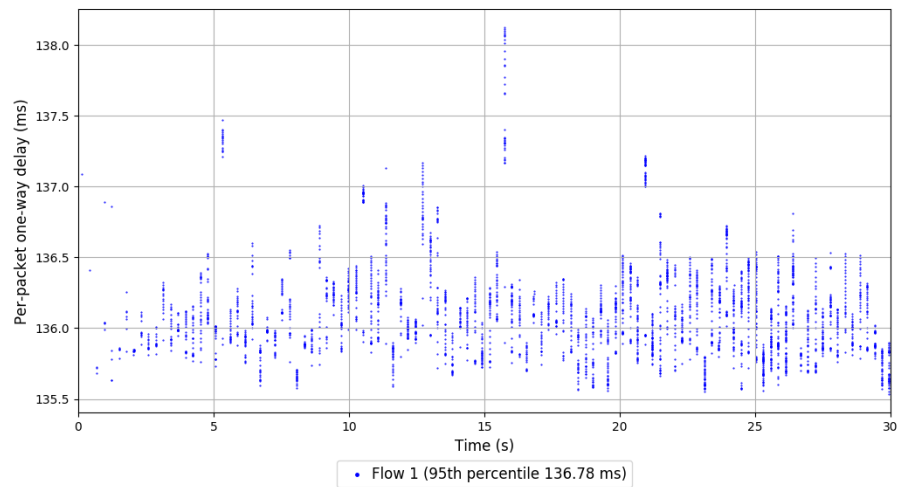
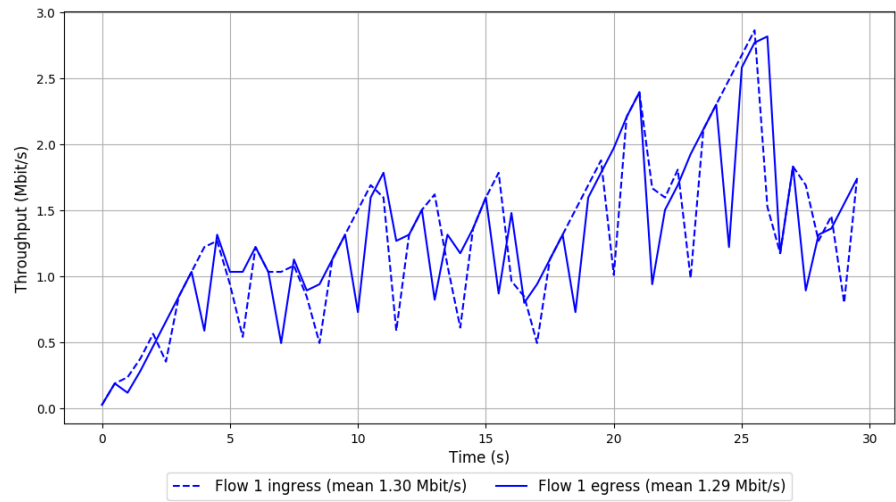


```
Run 10: Statistics of LEDBAT

Start at: 2017-09-18 12:16:15
End at: 2017-09-18 12:16:45

# Below is generated by plot.py at 2017-09-18 13:22:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 136.776 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 136.776 ms
Loss rate: 0.33%
```

Run 10: Report of LEDBAT — Data Link

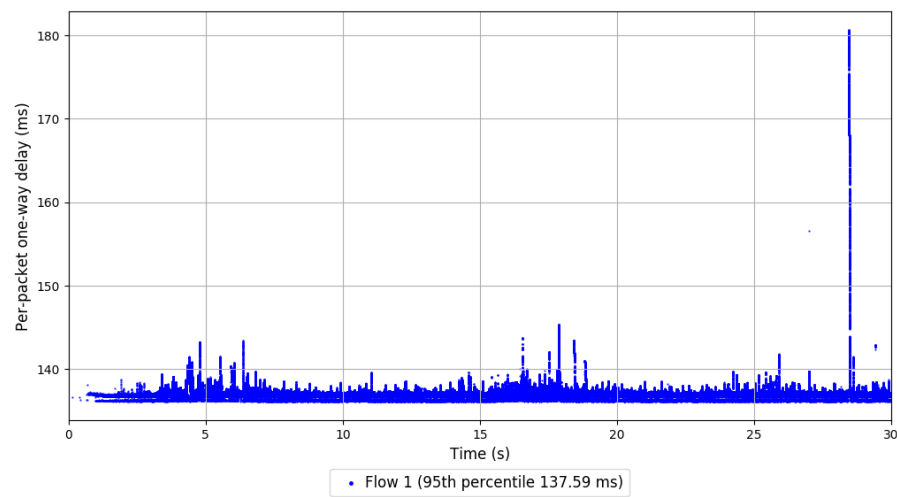
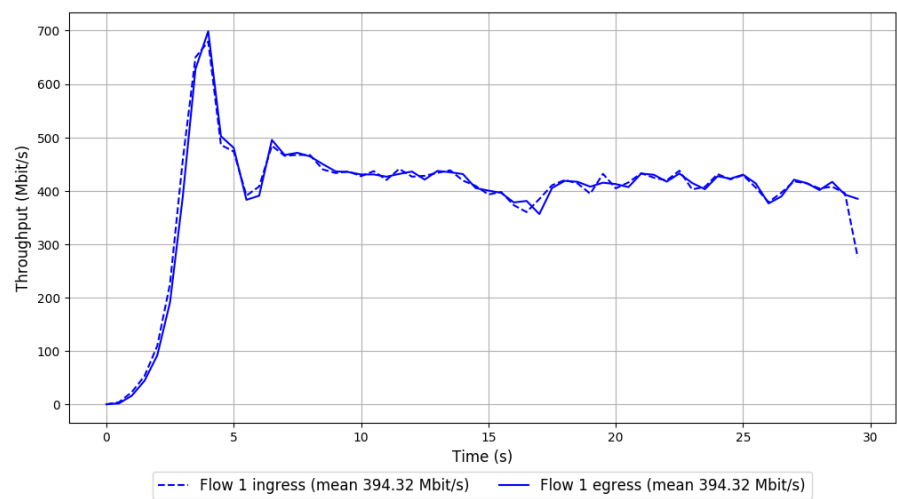


```
Run 1: Statistics of PCC

Start at: 2017-09-18 10:22:45
End at: 2017-09-18 10:23:15

# Below is generated by plot.py at 2017-09-18 13:29:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.32 Mbit/s
95th percentile per-packet one-way delay: 137.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 394.32 Mbit/s
95th percentile per-packet one-way delay: 137.591 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link

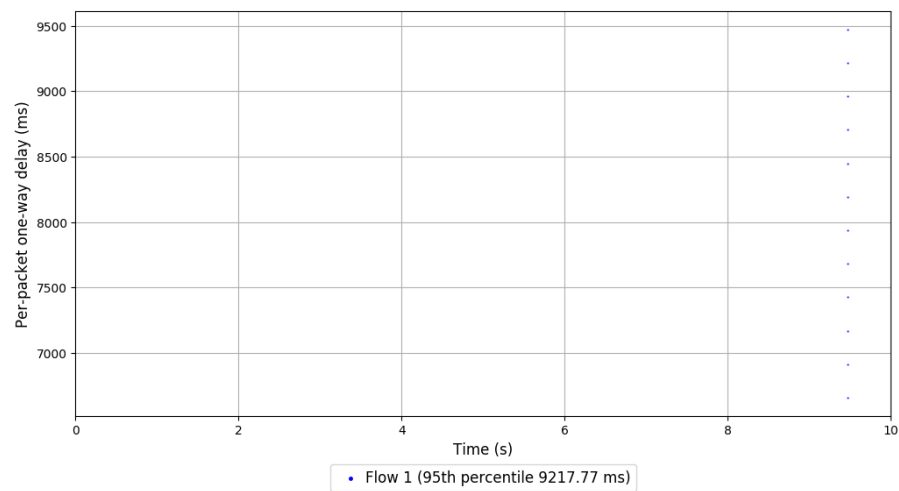
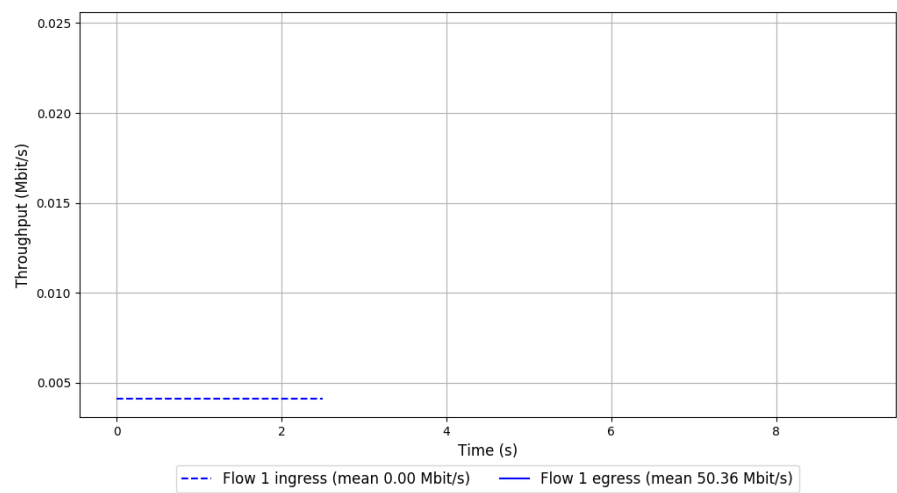


Run 2: Statistics of PCC

Start at: 2017-09-18 10:35:04

End at: 2017-09-18 10:35:34

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-18 10:47:17

End at: 2017-09-18 10:47:48

Below is generated by plot.py at 2017-09-18 13:29:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 459.79 Mbit/s

95th percentile per-packet one-way delay: 145.270 ms

Loss rate: 0.24%

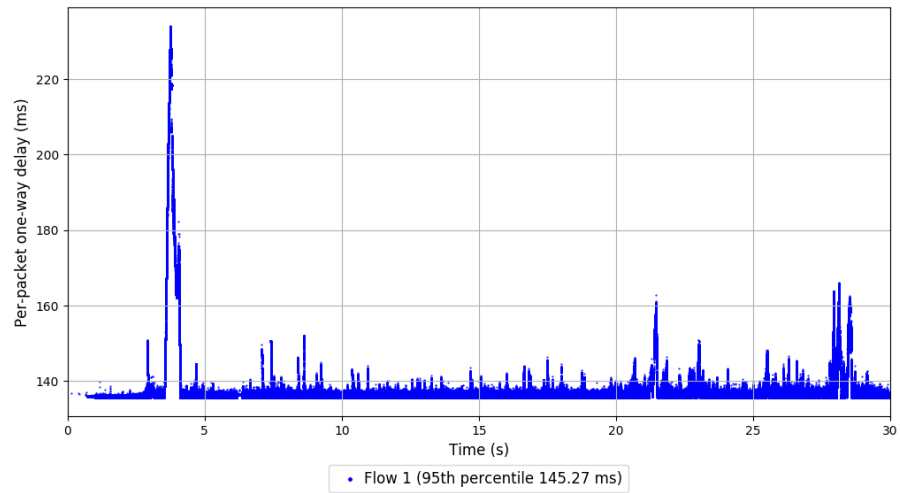
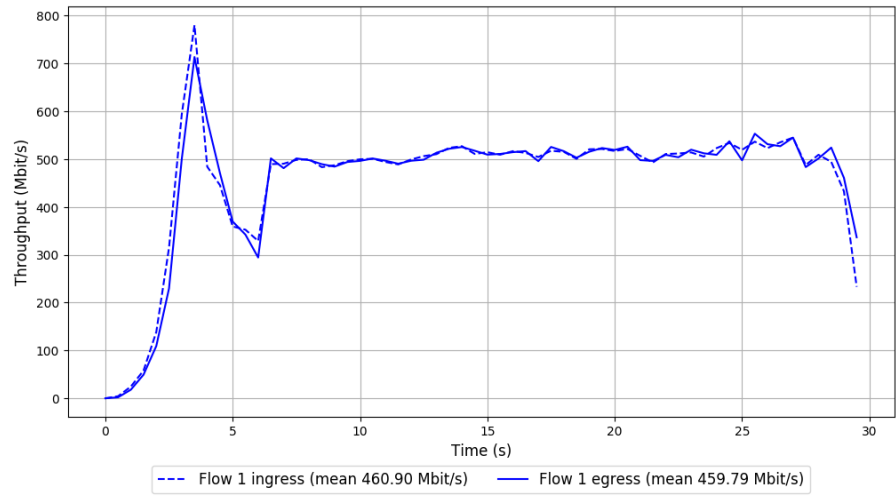
-- Flow 1:

Average throughput: 459.79 Mbit/s

95th percentile per-packet one-way delay: 145.270 ms

Loss rate: 0.24%

Run 3: Report of PCC — Data Link

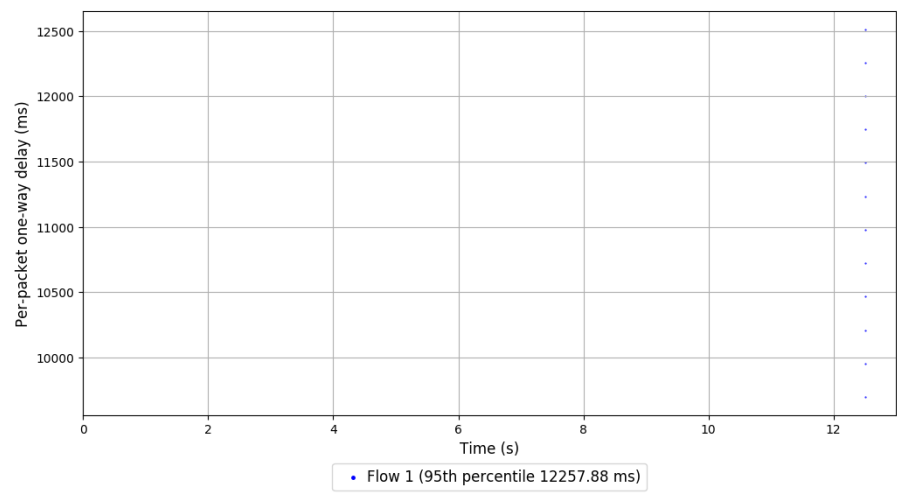
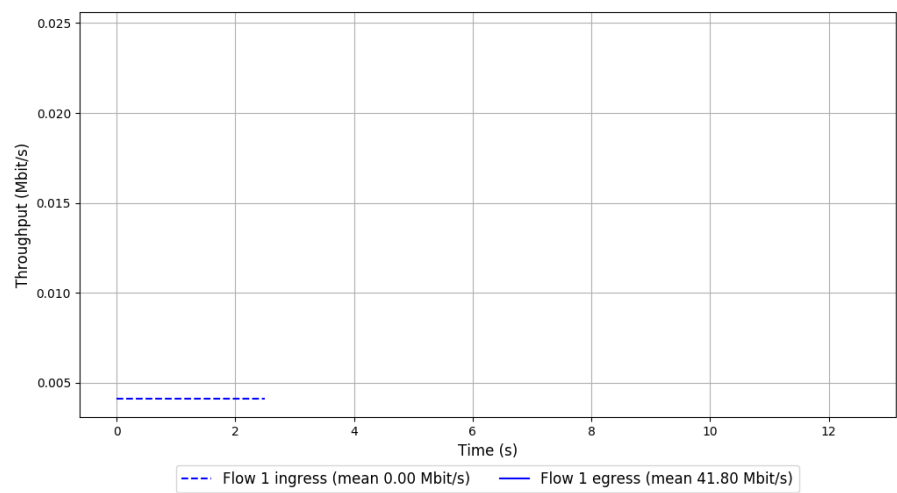


Run 4: Statistics of PCC

Start at: 2017-09-18 10:59:37

End at: 2017-09-18 11:00:07

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

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

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

Below is generated by plot.py at 2017-09-18 13:30:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 495.16 Mbit/s

95th percentile per-packet one-way delay: 228.086 ms

Loss rate: 1.12%

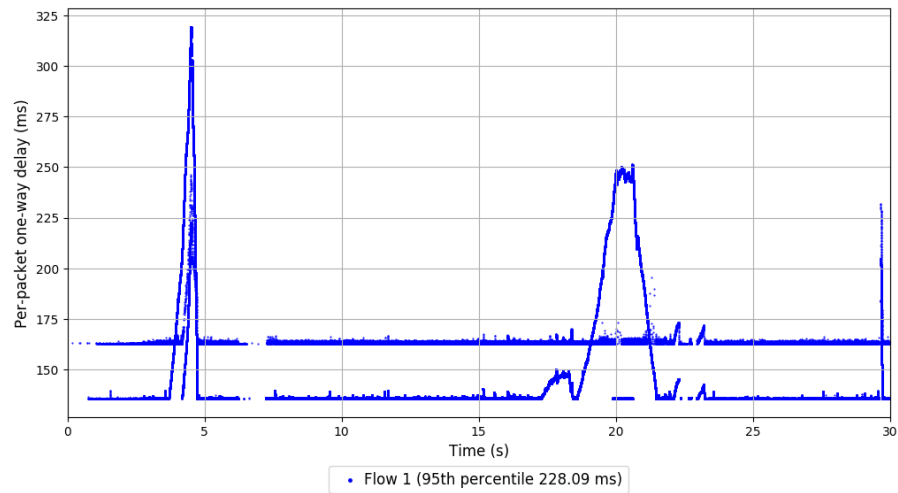
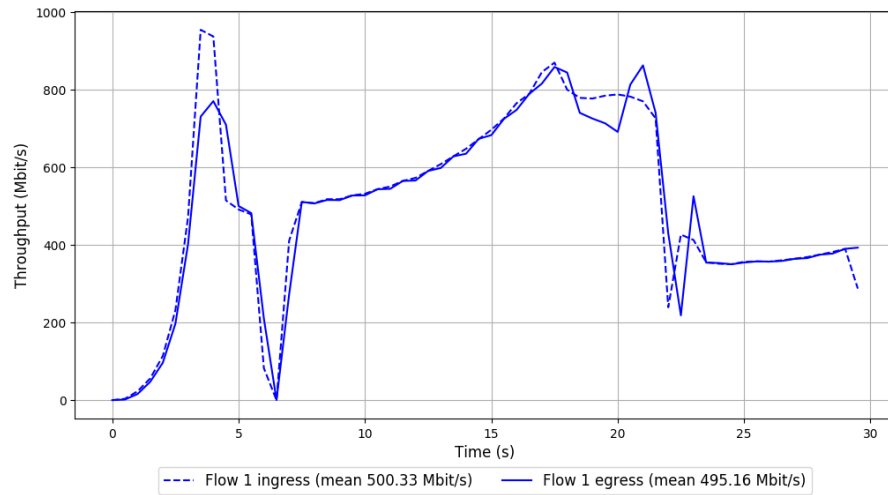
-- Flow 1:

Average throughput: 495.16 Mbit/s

95th percentile per-packet one-way delay: 228.086 ms

Loss rate: 1.12%

Run 5: Report of PCC — Data Link

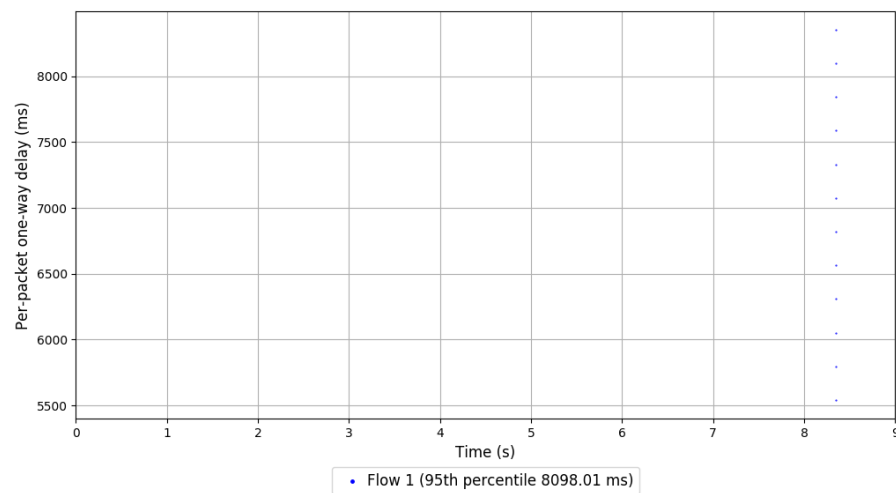
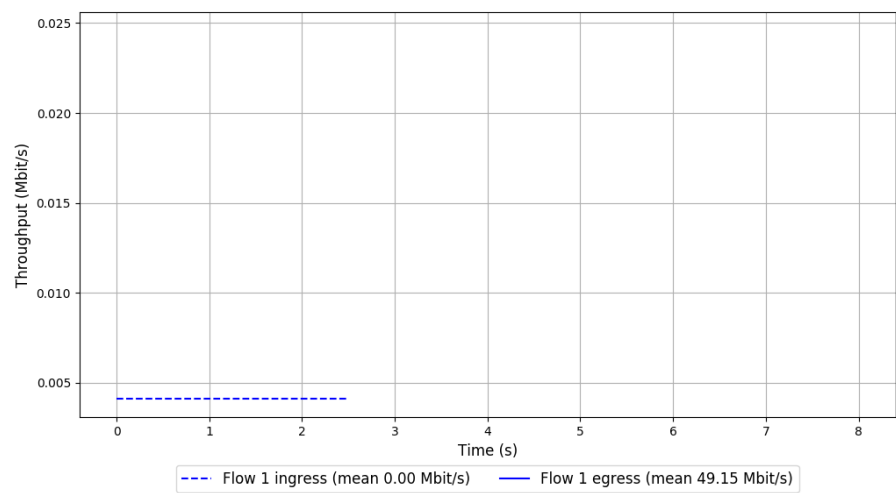


Run 6: Statistics of PCC

Start at: 2017-09-18 11:24:08

End at: 2017-09-18 11:24:38

Run 6: Report of PCC — Data Link

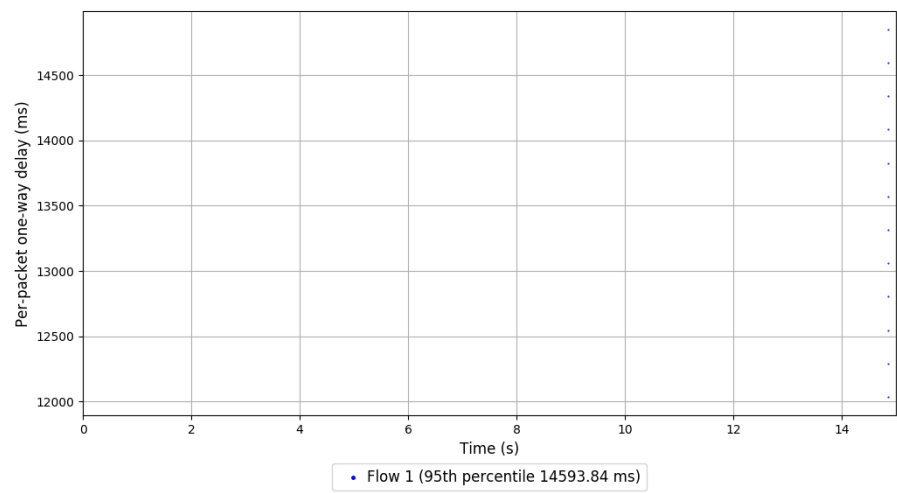
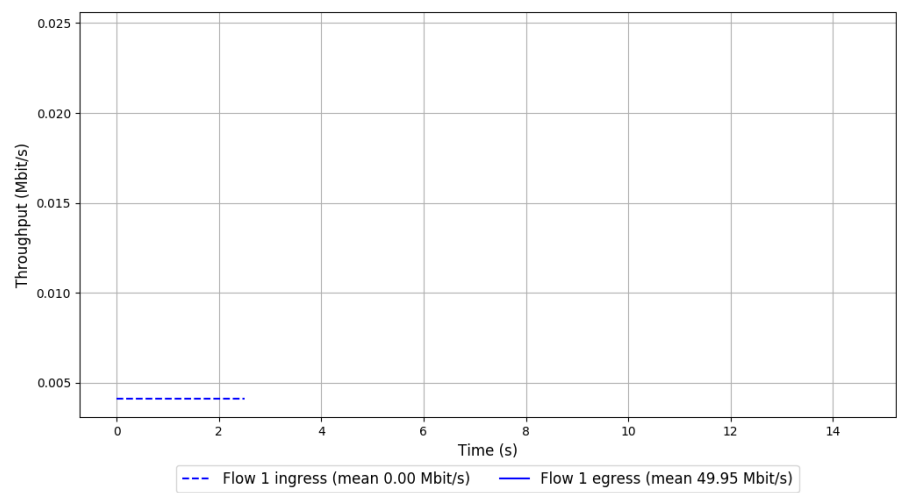


Run 7: Statistics of PCC

Start at: 2017-09-18 11:35:58

End at: 2017-09-18 11:36:28

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-18 11:47:56

End at: 2017-09-18 11:48:26

Below is generated by plot.py at 2017-09-18 13:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.92 Mbit/s

95th percentile per-packet one-way delay: 206.672 ms

Loss rate: 1.37%

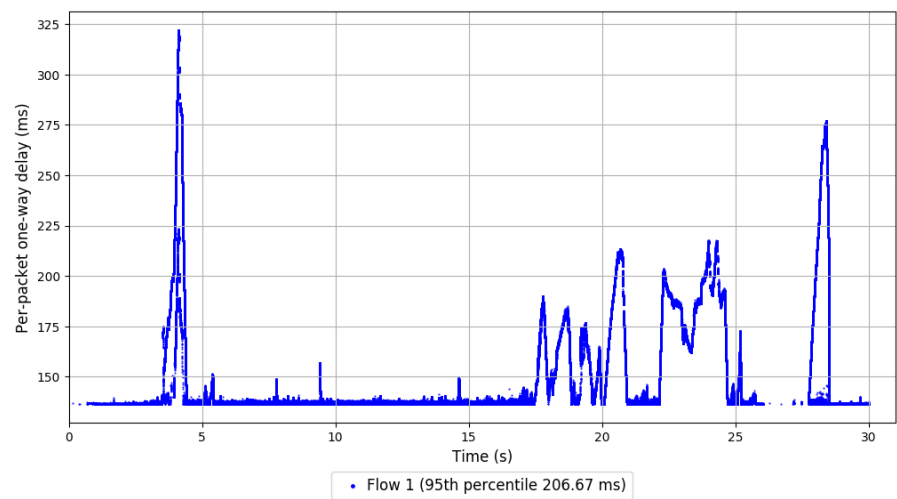
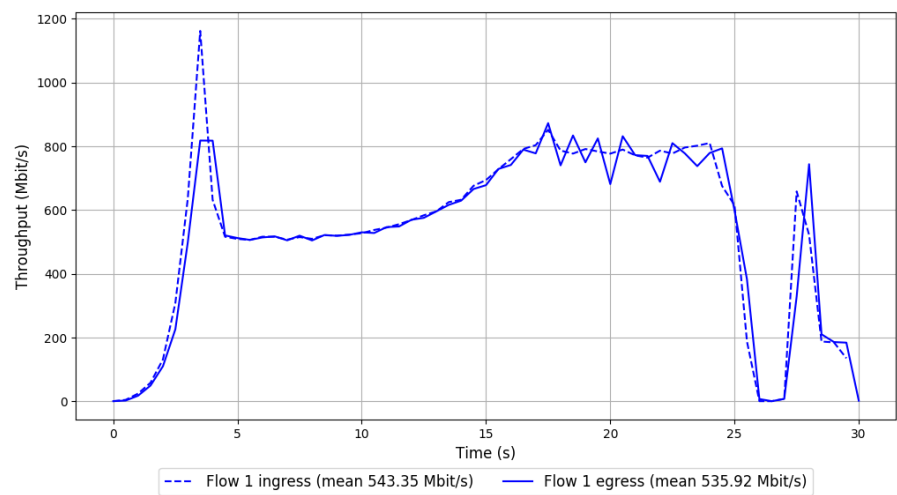
-- Flow 1:

Average throughput: 535.92 Mbit/s

95th percentile per-packet one-way delay: 206.672 ms

Loss rate: 1.37%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-18 12:00:36

End at: 2017-09-18 12:01:07

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.76 Mbit/s

95th percentile per-packet one-way delay: 219.266 ms

Loss rate: 2.88%

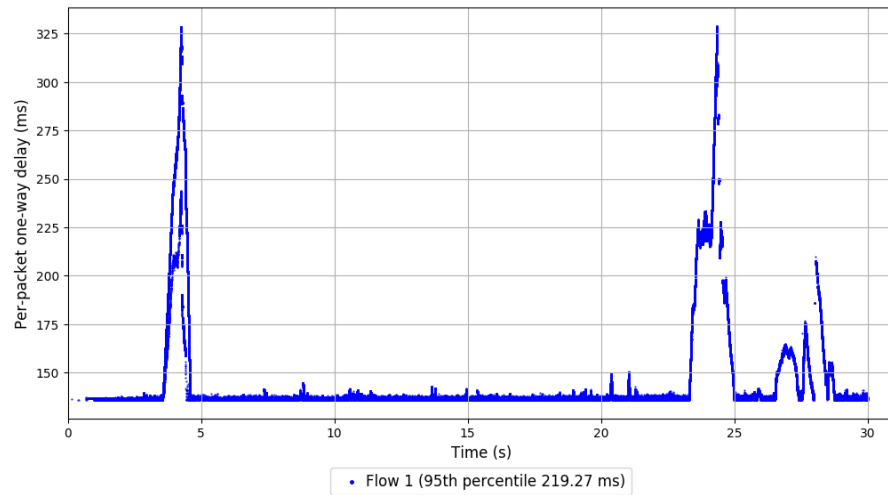
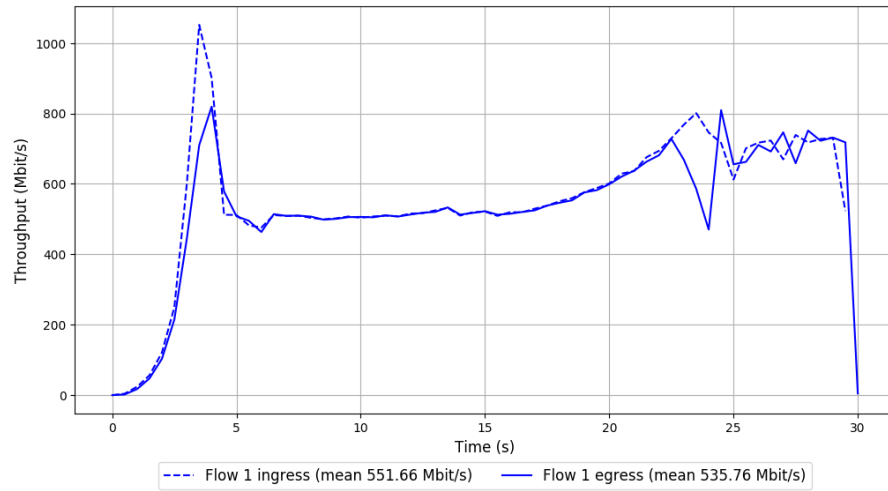
-- Flow 1:

Average throughput: 535.76 Mbit/s

95th percentile per-packet one-way delay: 219.266 ms

Loss rate: 2.88%

Run 9: Report of PCC — Data Link

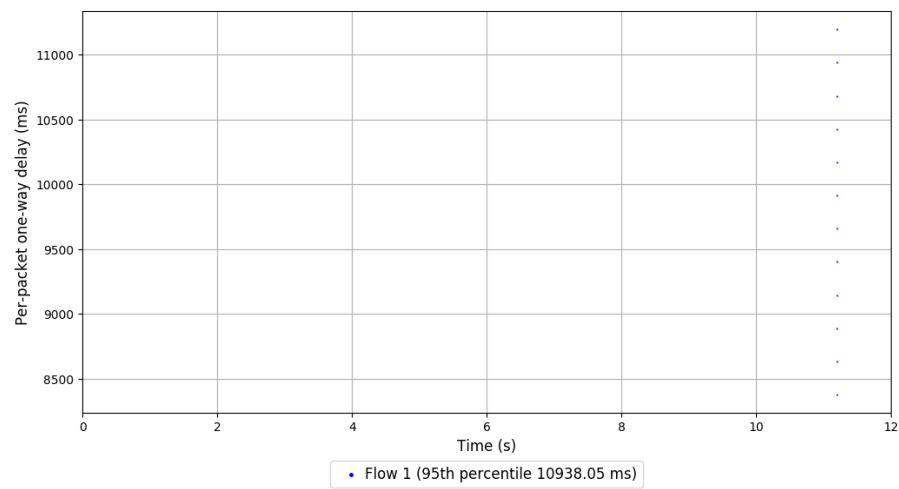
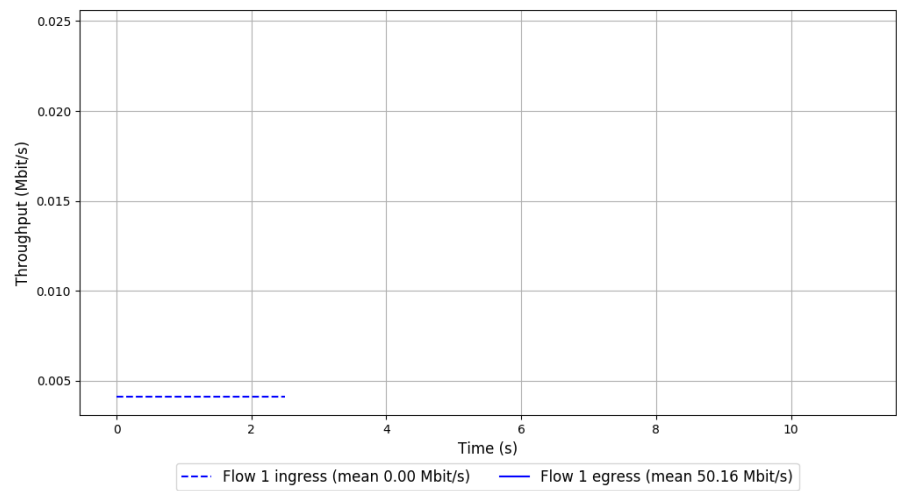


Run 10: Statistics of PCC

Start at: 2017-09-18 12:13:00

End at: 2017-09-18 12:13:30

Run 10: Report of PCC — Data Link

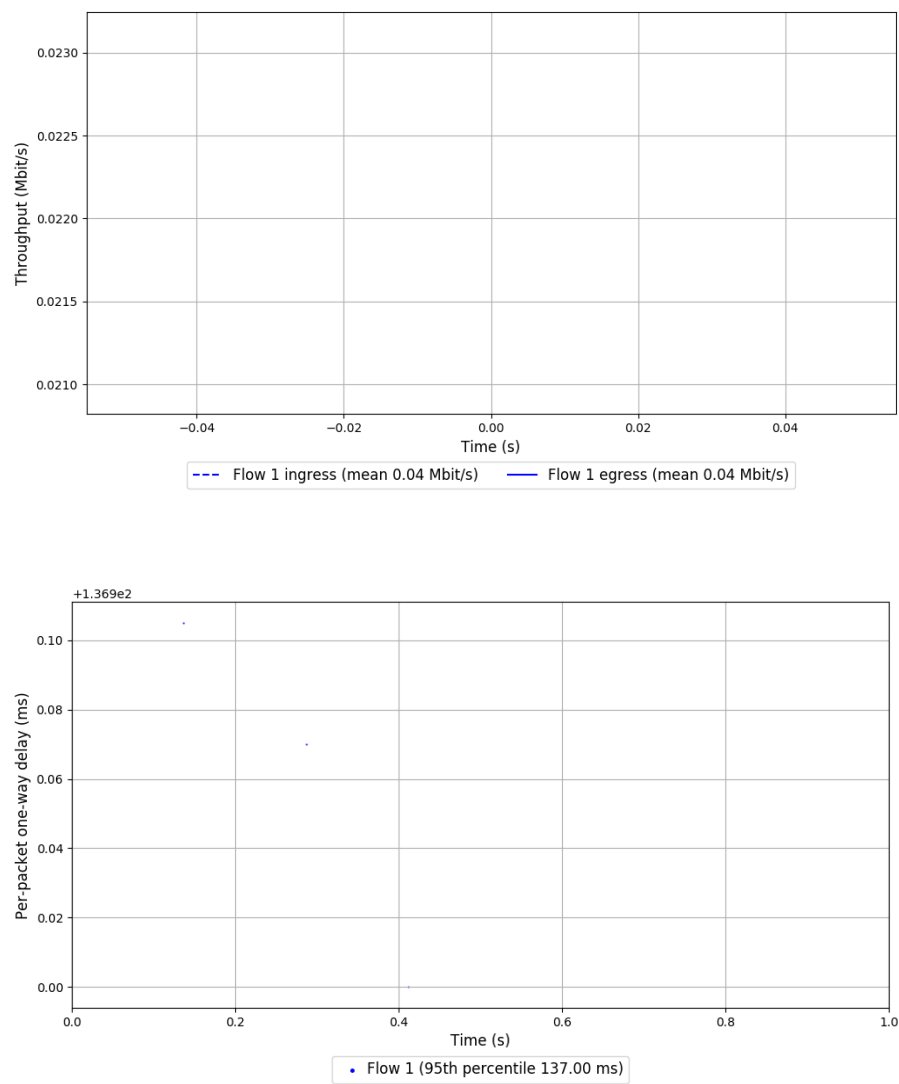


Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 10:23:49

End at: 2017-09-18 10:24:19

Run 1: Report of QUIC Cubic — Data Link

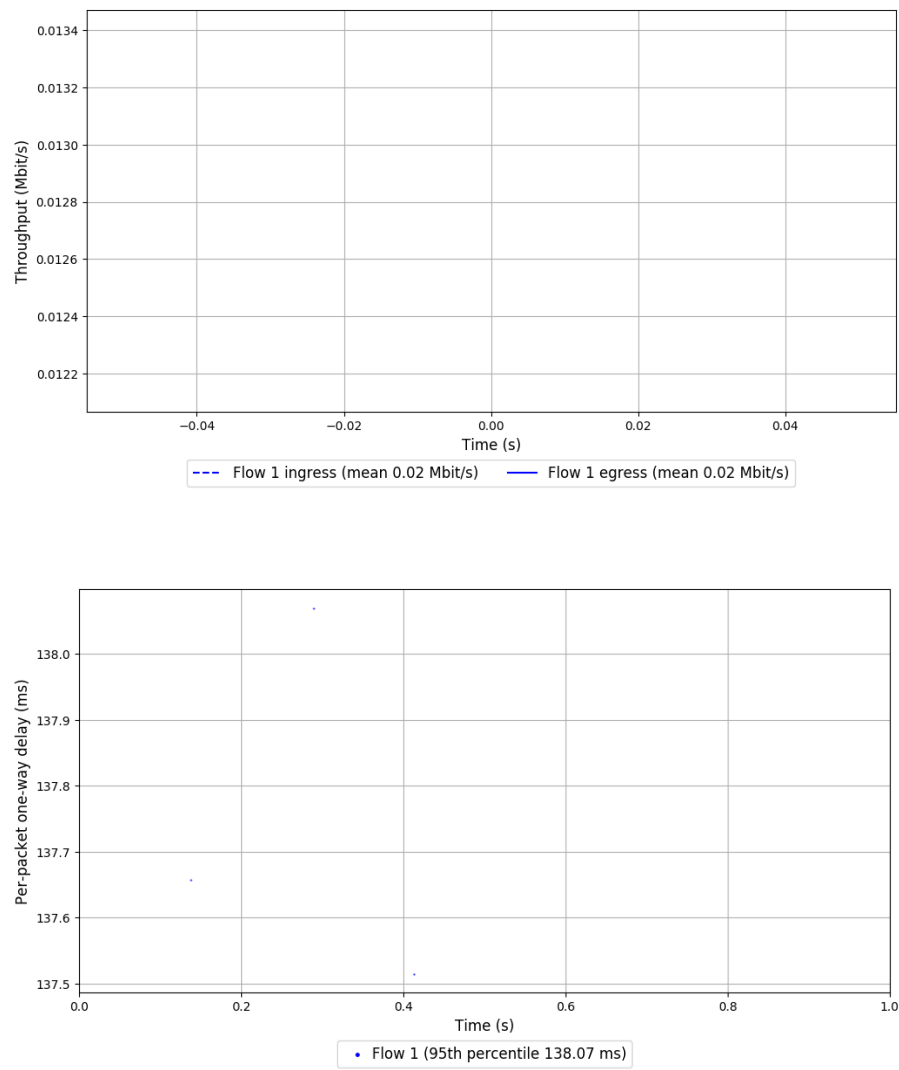


Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 10:35:46

End at: 2017-09-18 10:36:16

Run 2: Report of QUIC Cubic — Data Link

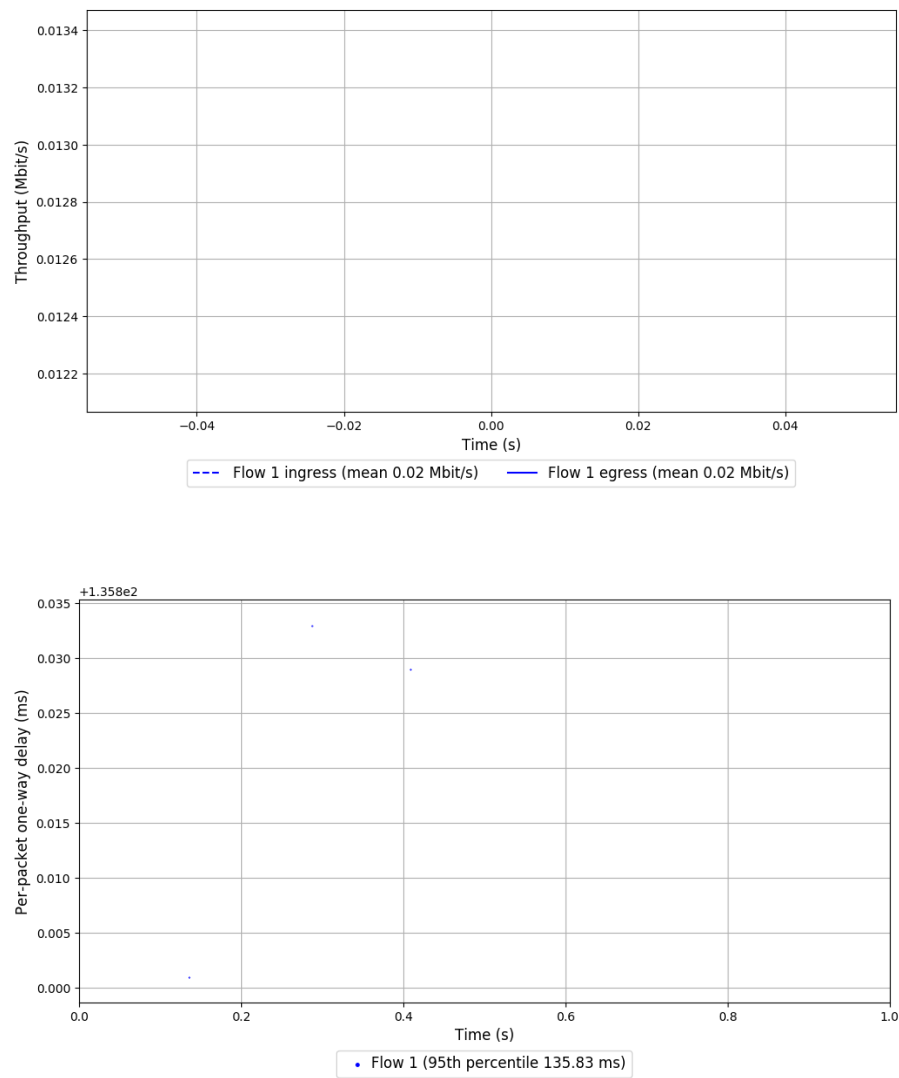


Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 10:48:28

End at: 2017-09-18 10:48:58

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 11:00:19

End at: 2017-09-18 11:00:49

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.19 Mbit/s

95th percentile per-packet one-way delay: 136.874 ms

Loss rate: 0.00%

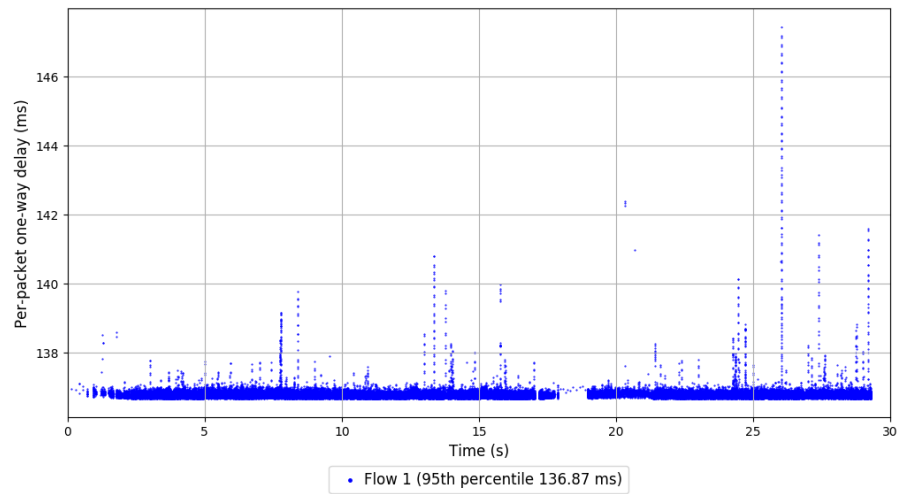
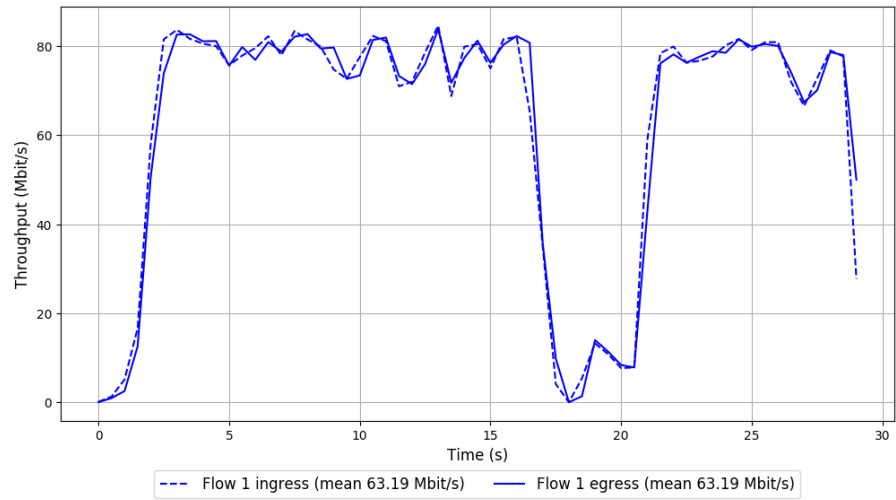
-- Flow 1:

Average throughput: 63.19 Mbit/s

95th percentile per-packet one-way delay: 136.874 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 11:12:54

End at: 2017-09-18 11:13:24

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 136.765 ms

Loss rate: 0.00%

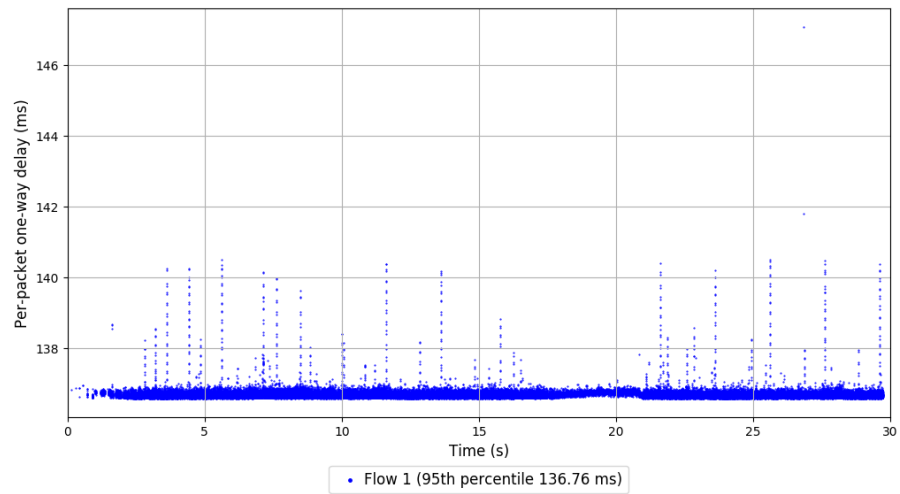
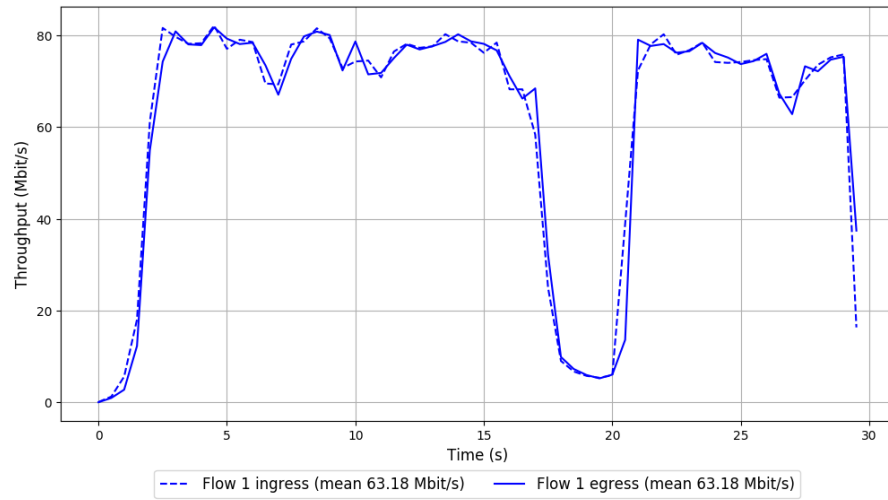
-- Flow 1:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 136.765 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-18 11:24:50

End at: 2017-09-18 11:25:20

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.98 Mbit/s

95th percentile per-packet one-way delay: 136.771 ms

Loss rate: 0.00%

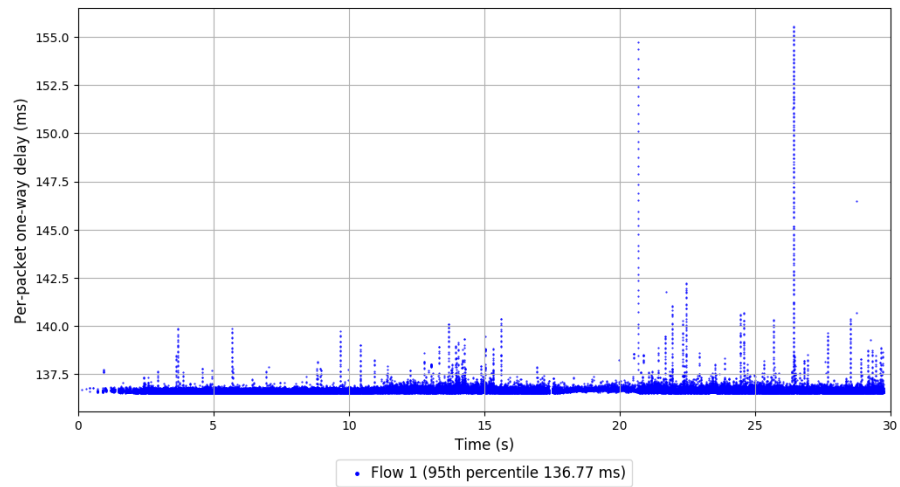
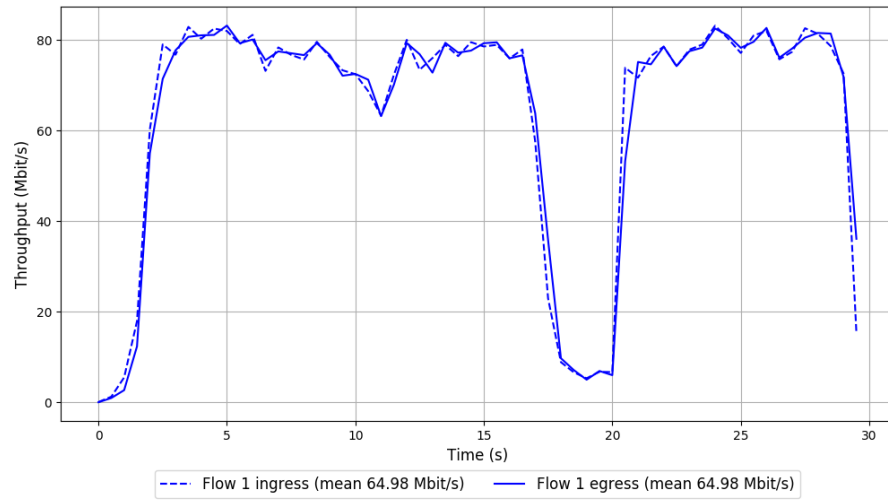
-- Flow 1:

Average throughput: 64.98 Mbit/s

95th percentile per-packet one-way delay: 136.771 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 11:36:40

End at: 2017-09-18 11:37:10

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 135.597 ms

Loss rate: 0.00%

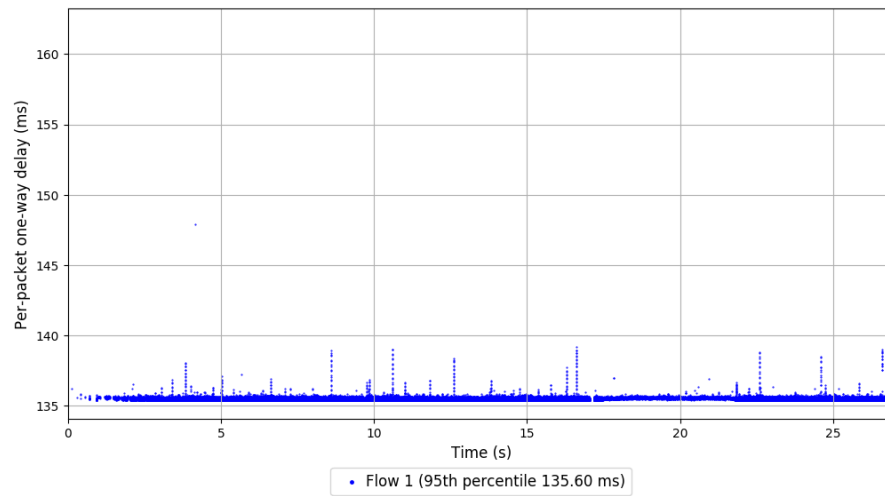
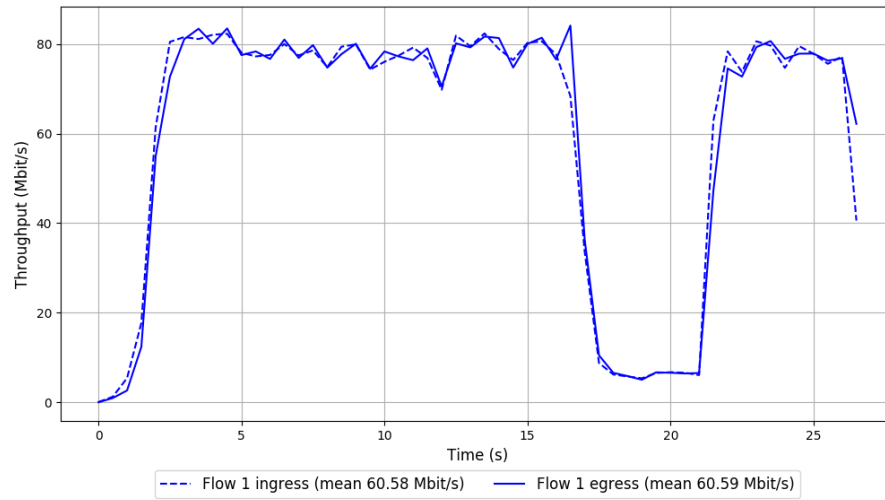
-- Flow 1:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 135.597 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 11:49:05

End at: 2017-09-18 11:49:35

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 135.653 ms

Loss rate: 0.00%

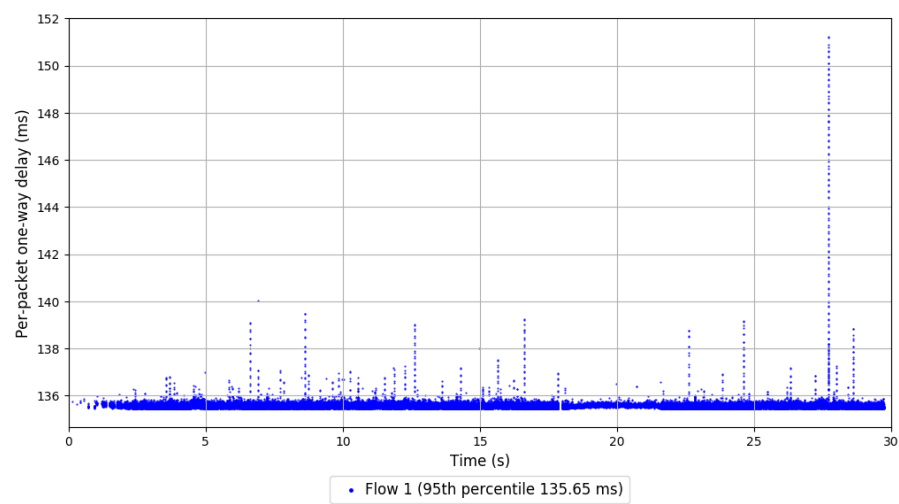
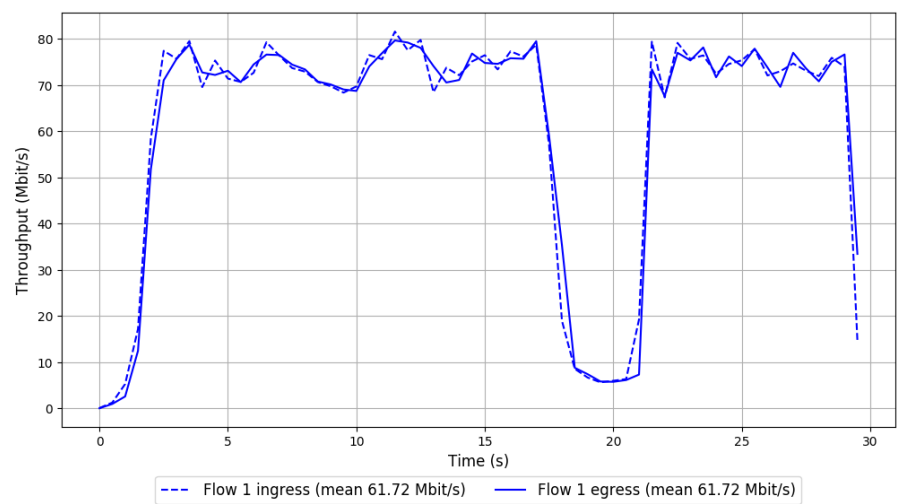
-- Flow 1:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 135.653 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 12:01:45

End at: 2017-09-18 12:02:15

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 136.992 ms

Loss rate: 0.00%

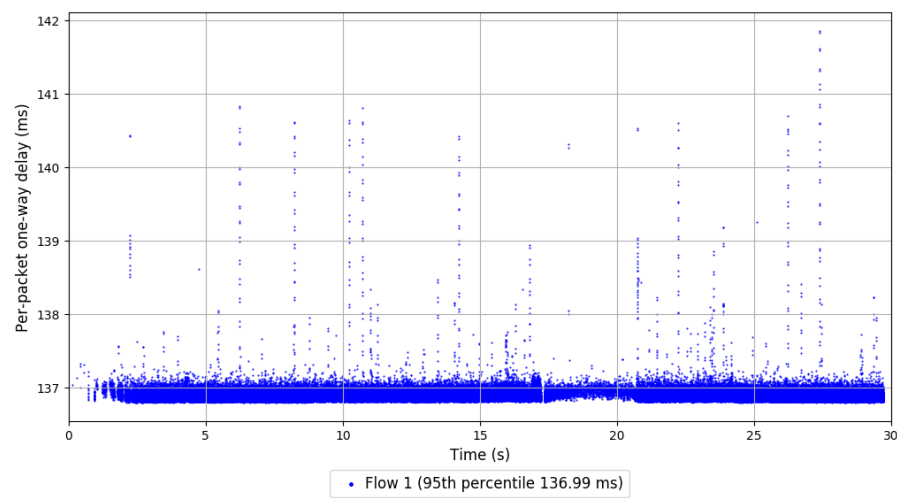
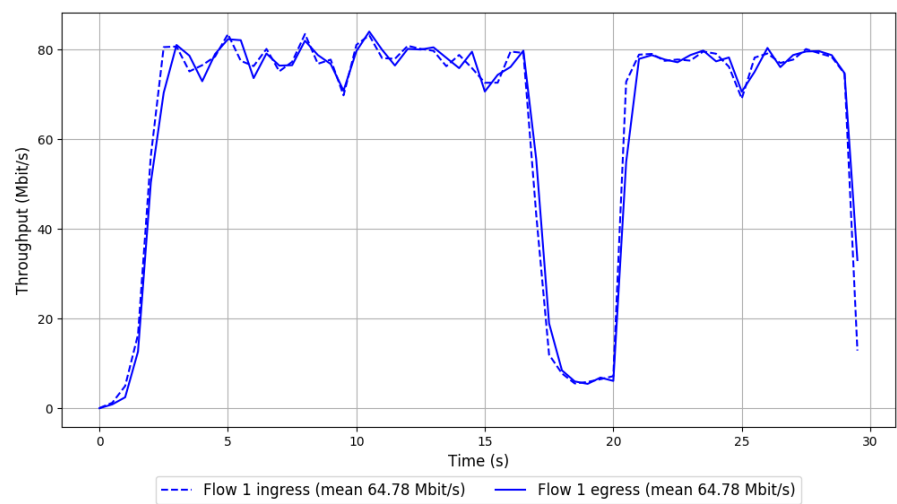
-- Flow 1:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 136.992 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

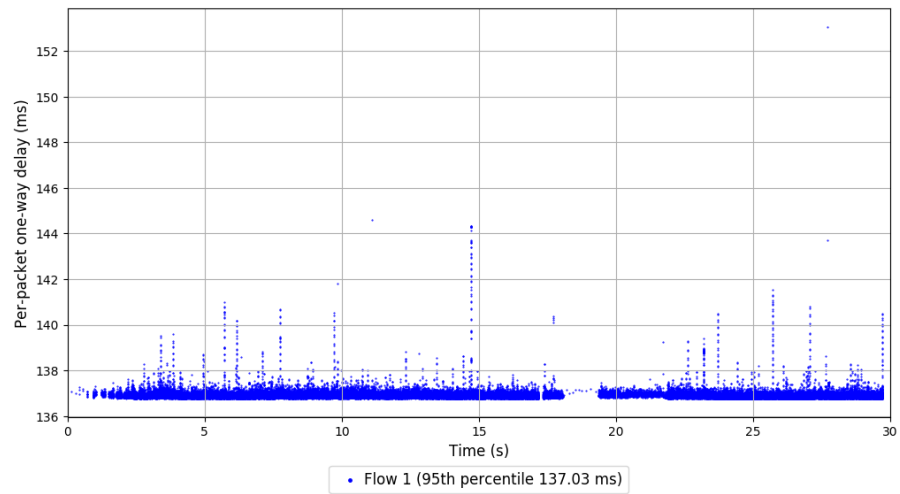
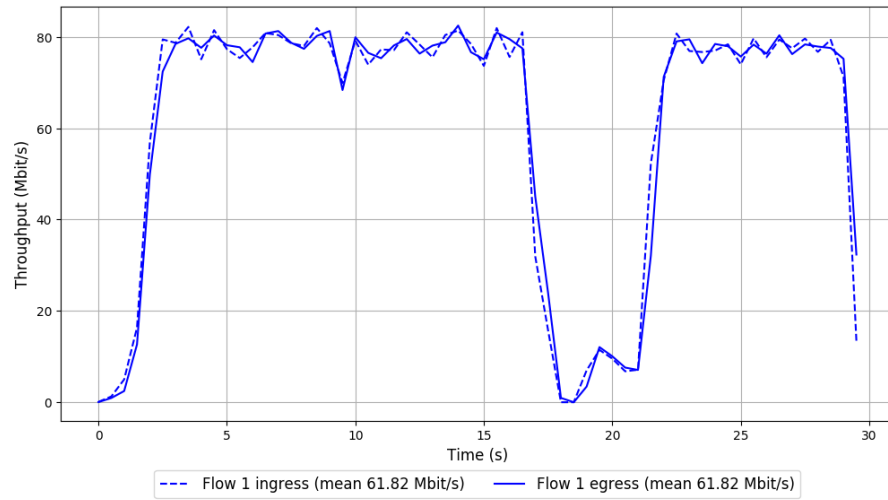


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 12:13:42
End at: 2017-09-18 12:14:12

# Below is generated by plot.py at 2017-09-18 13:31:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 137.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 137.033 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

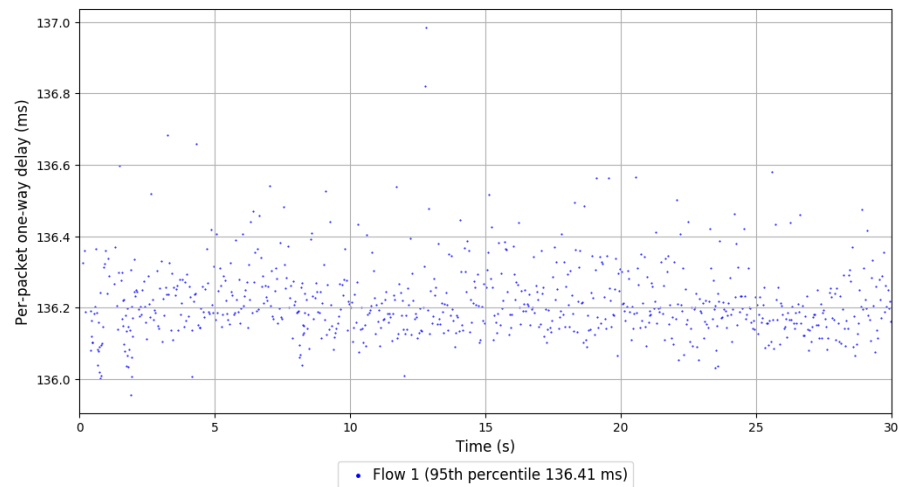
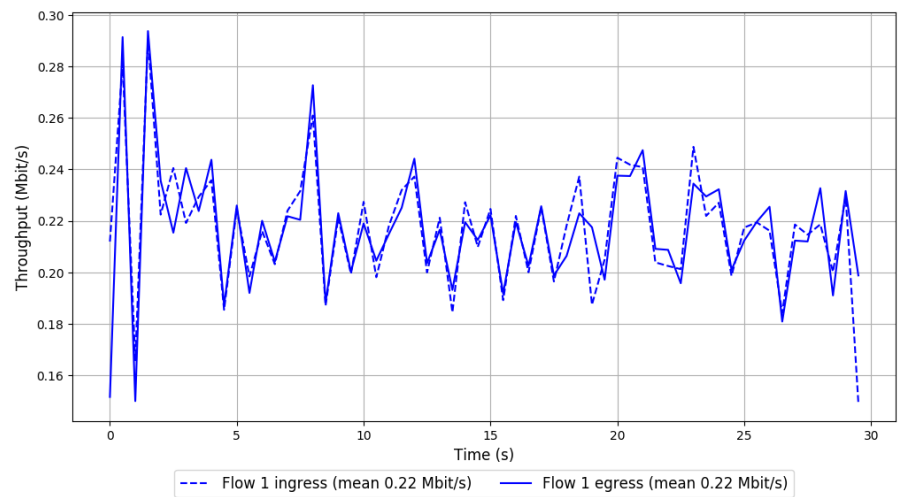


```
Run 1: Statistics of SCReAM

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

# Below is generated by plot.py at 2017-09-18 13:31:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.407 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

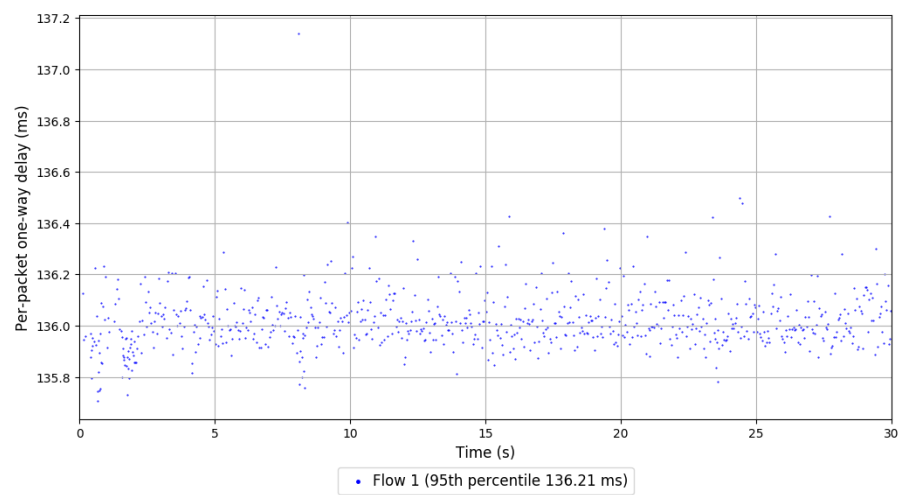
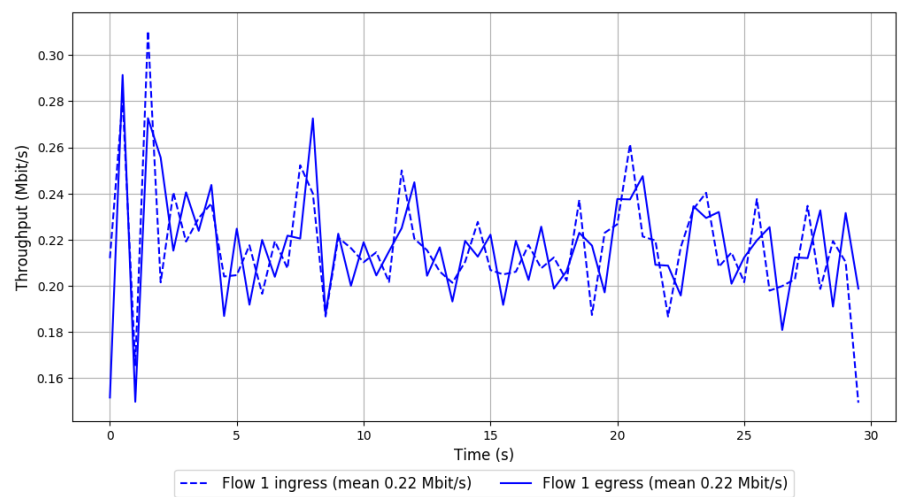


```
Run 2: Statistics of SCReAM

Start at: 2017-09-18 10:42:11
End at: 2017-09-18 10:42:41

# Below is generated by plot.py at 2017-09-18 13:31:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.205 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-18 10:54:52

End at: 2017-09-18 10:55:22

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.511 ms

Loss rate: 0.00%

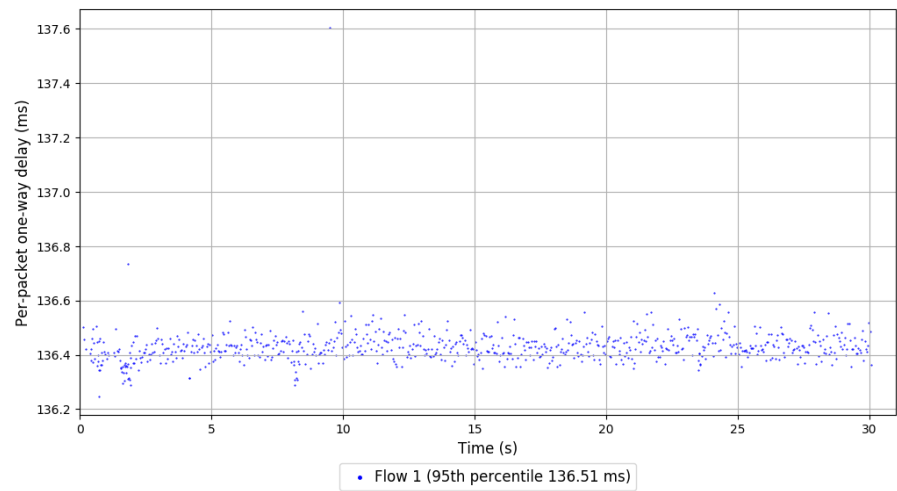
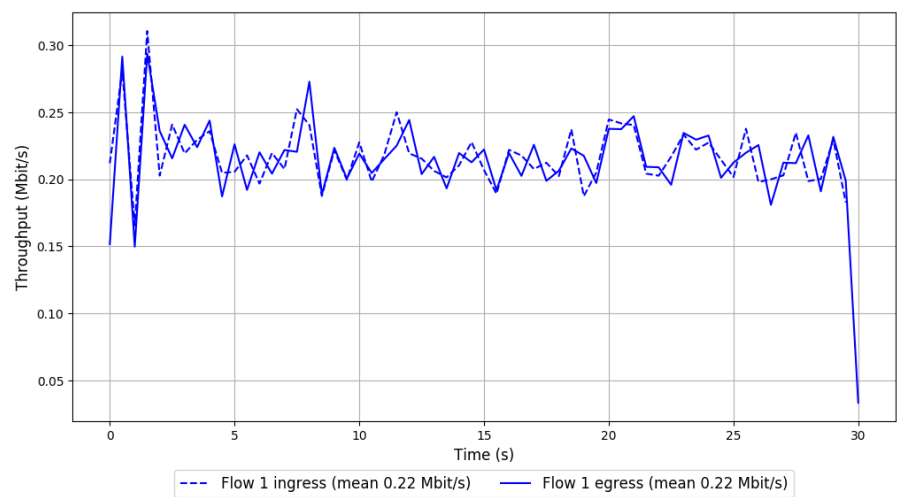
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.511 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-18 11:06:42

End at: 2017-09-18 11:07:12

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.889 ms

Loss rate: 0.00%

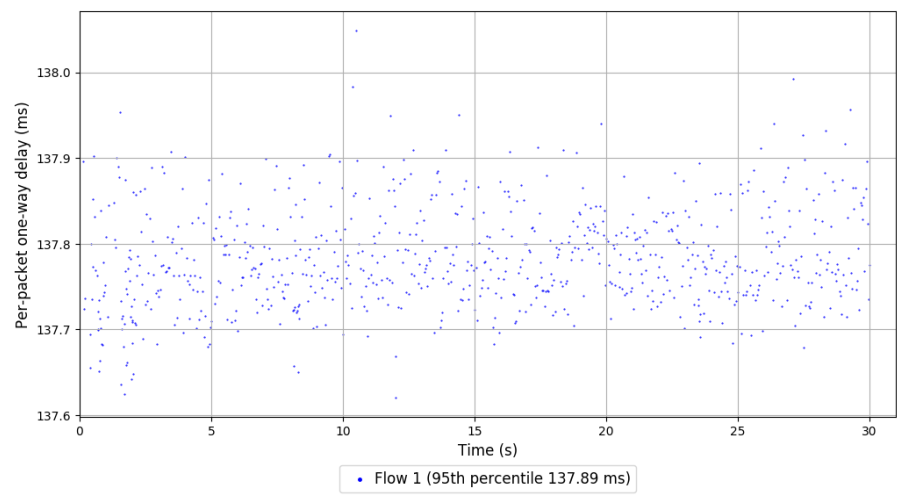
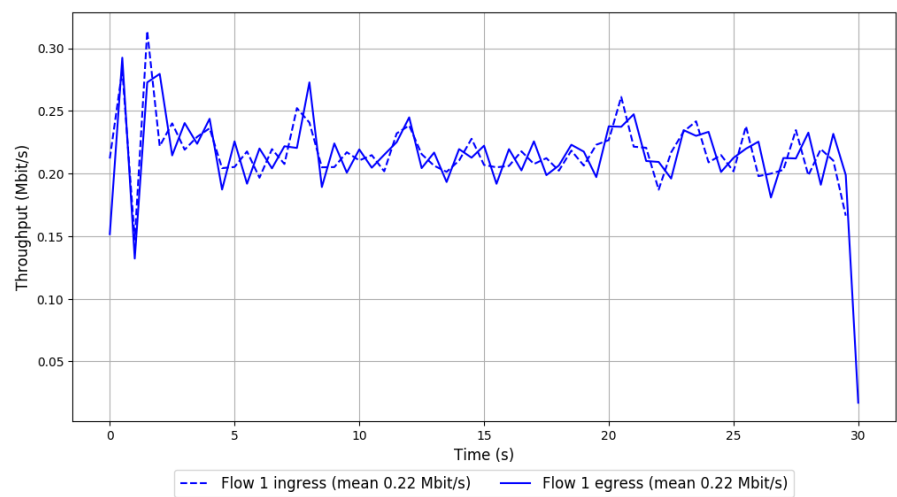
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.889 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

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

End at: 2017-09-18 11:19:48

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.981 ms

Loss rate: 0.00%

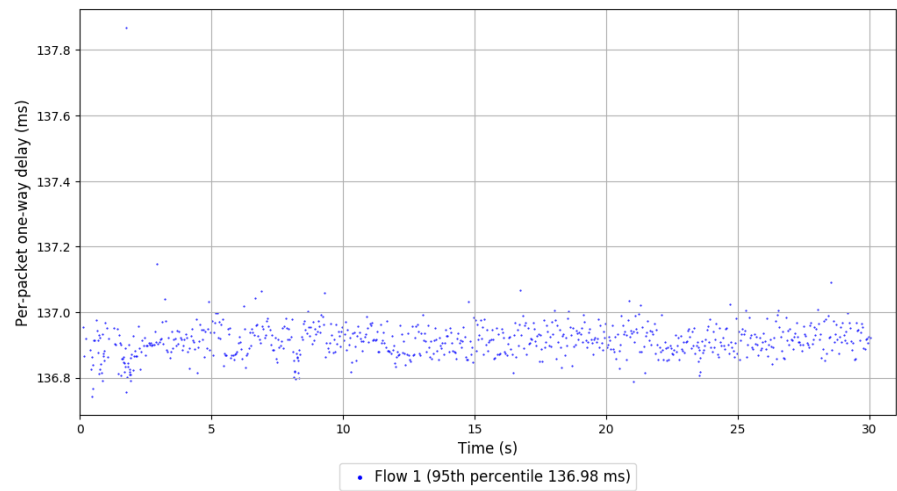
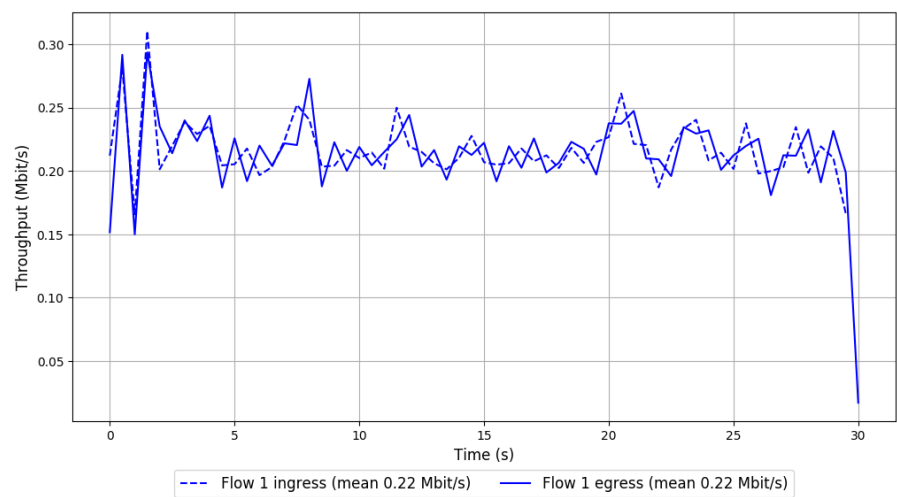
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.981 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-18 11:31:14

End at: 2017-09-18 11:31:44

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.020 ms

Loss rate: 0.00%

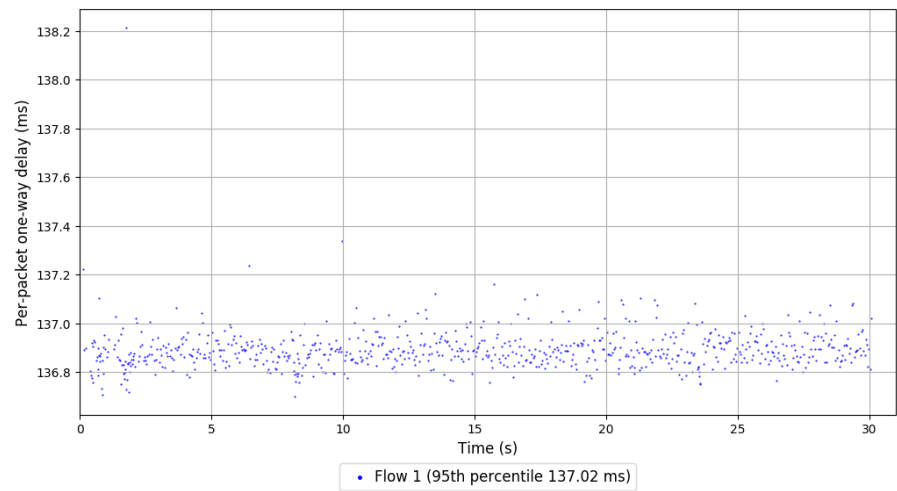
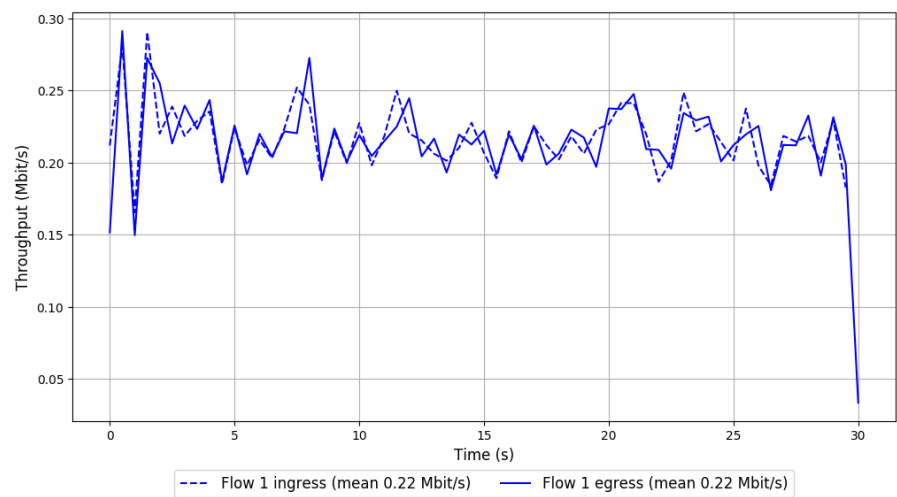
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.020 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-18 11:42:56

End at: 2017-09-18 11:43:26

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.388 ms

Loss rate: 0.00%

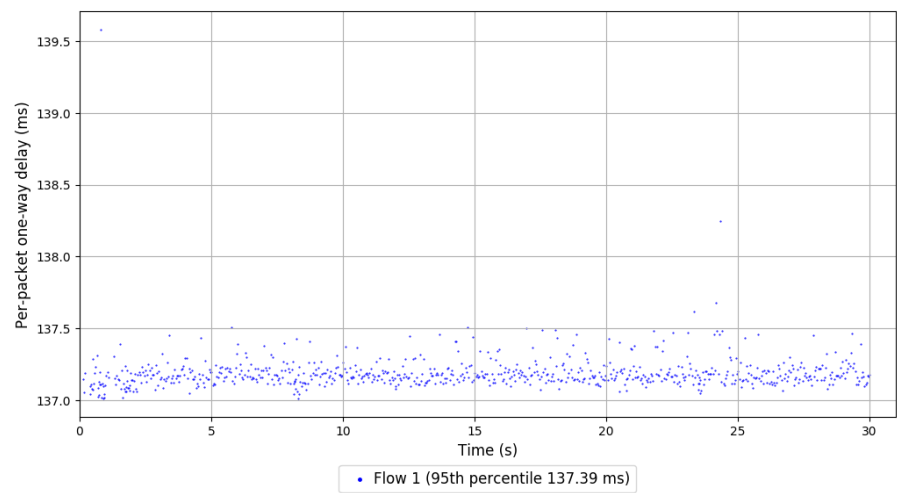
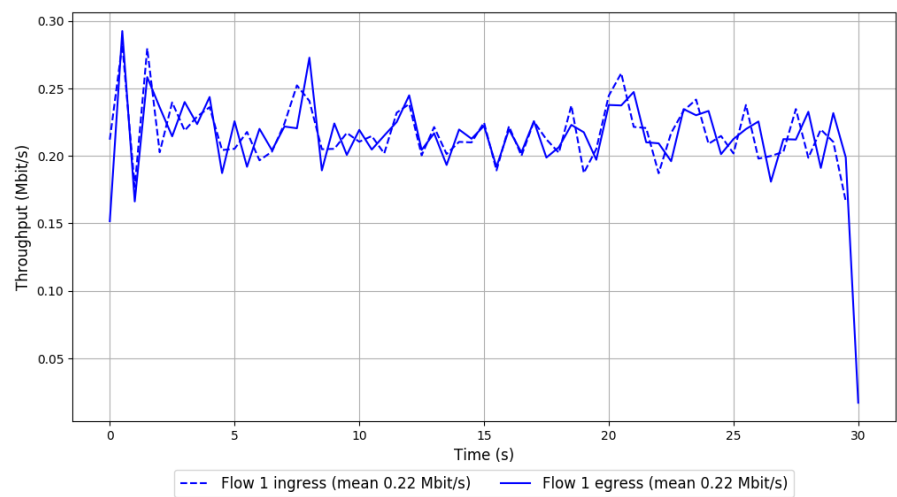
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.388 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-18 11:55:31

End at: 2017-09-18 11:56:01

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.134 ms

Loss rate: 0.00%

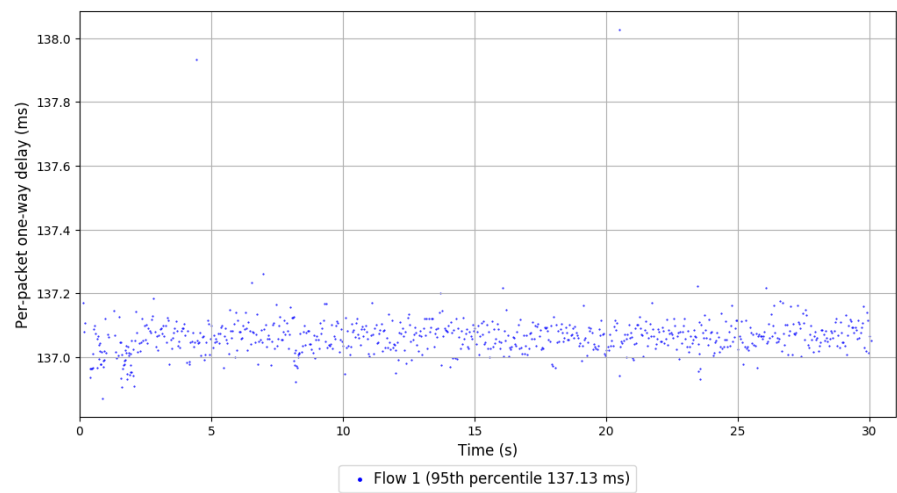
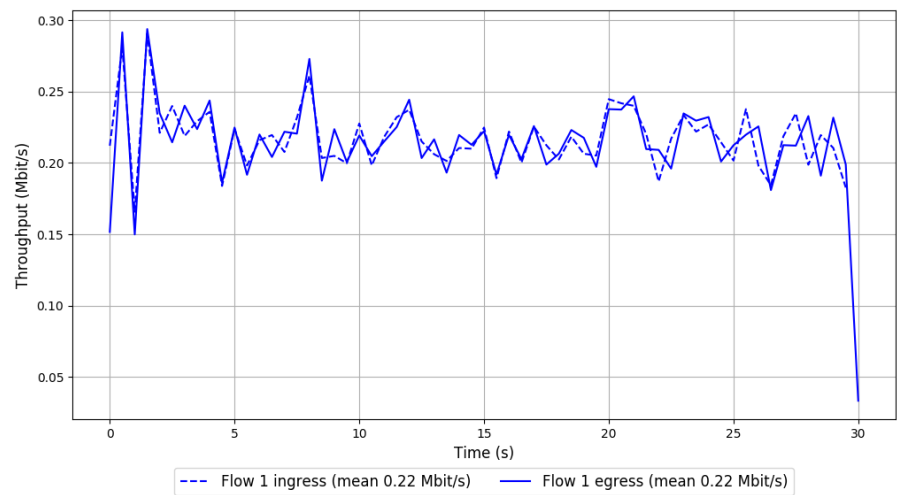
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.134 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-18 12:08:13

End at: 2017-09-18 12:08:43

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.883 ms

Loss rate: 0.00%

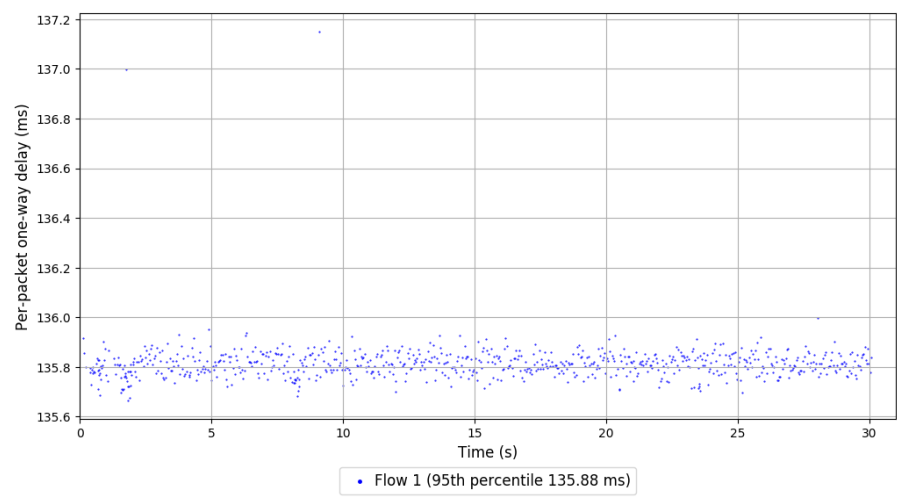
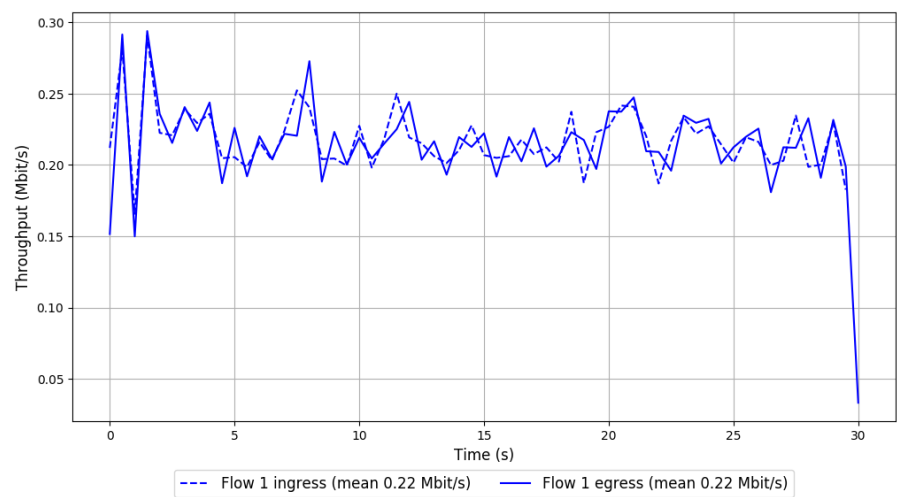
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.883 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-18 12:20:05

End at: 2017-09-18 12:20:35

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.215 ms

Loss rate: 0.00%

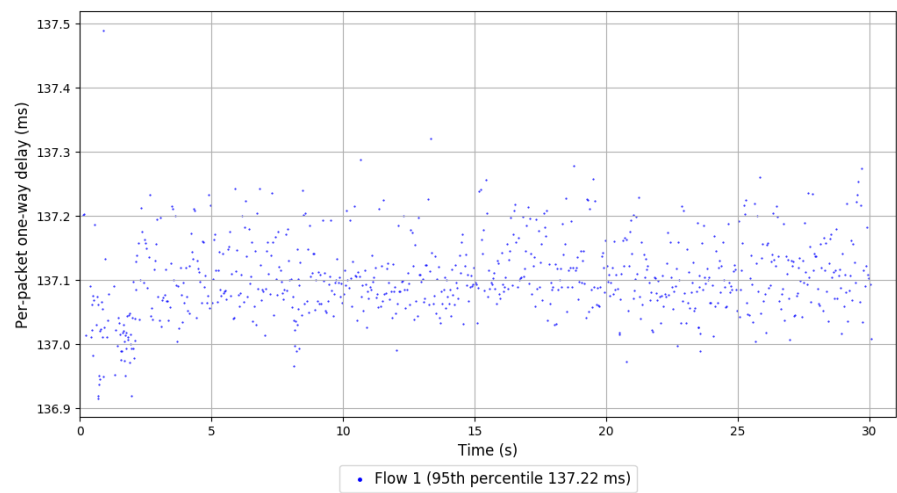
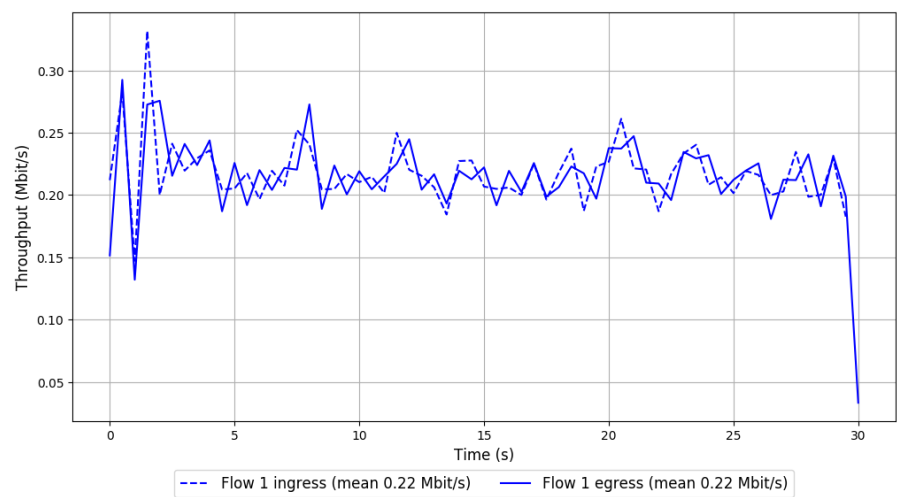
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.215 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-18 10:33:26

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

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.264 ms

Loss rate: 0.00%

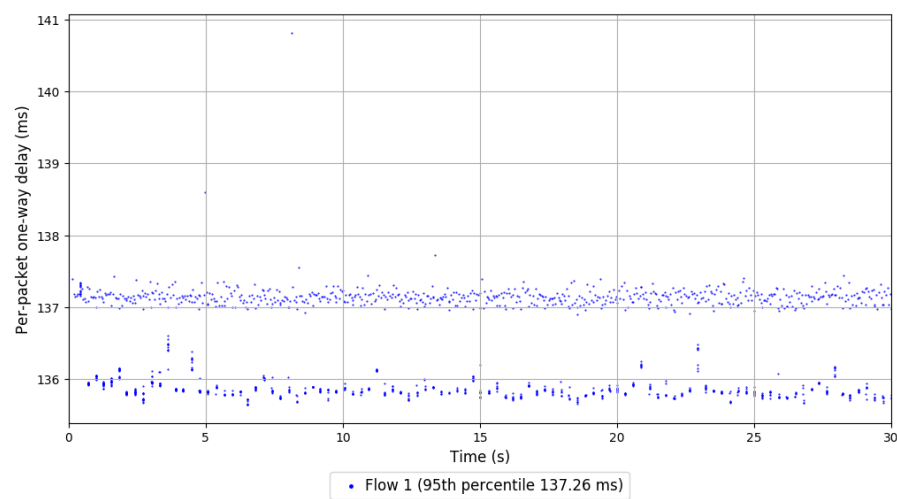
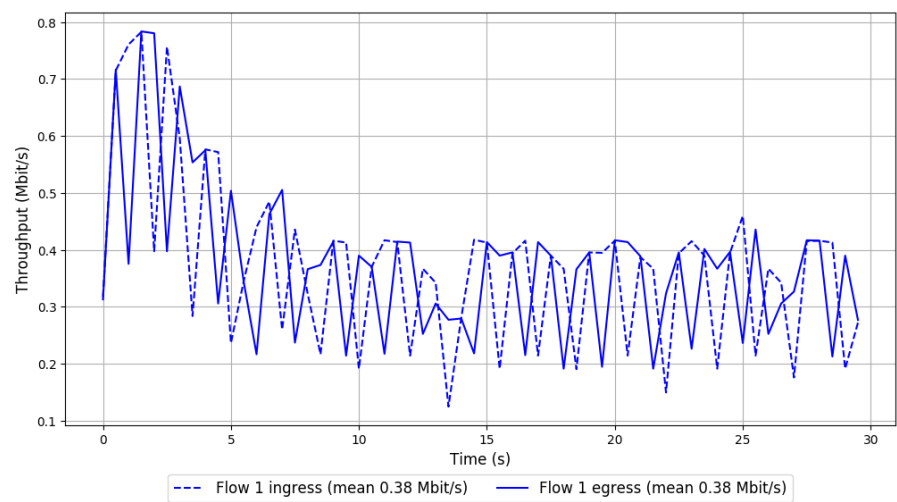
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.264 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-18 10:45:41

End at: 2017-09-18 10:46:11

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

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

Loss rate: 0.00%

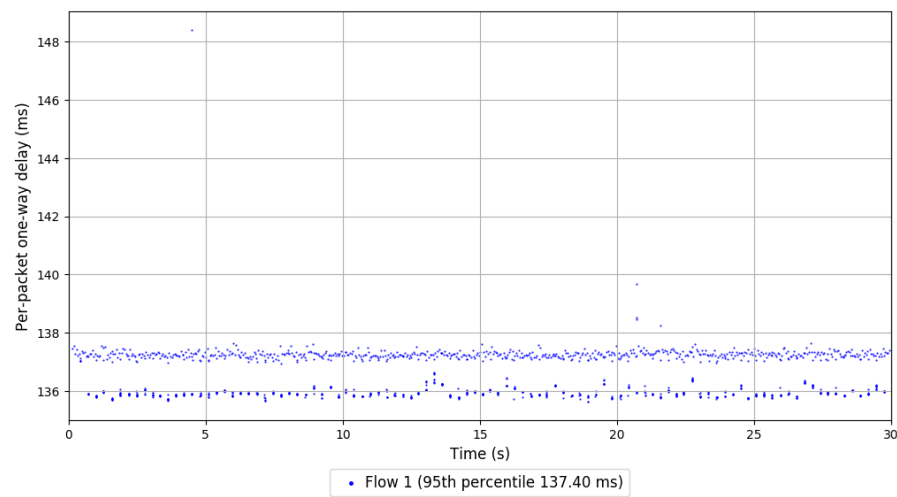
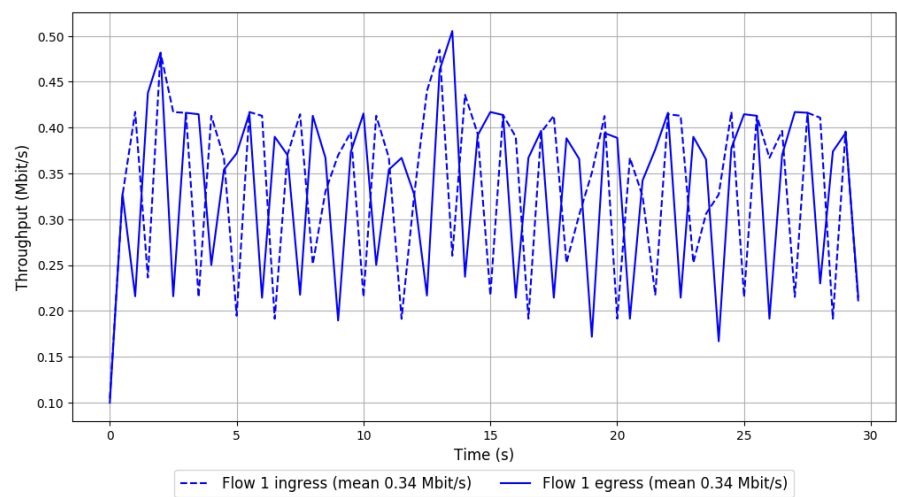
-- Flow 1:

Average throughput: 0.34 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-18 10:57:59

End at: 2017-09-18 10:58:29

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.649 ms

Loss rate: 0.00%

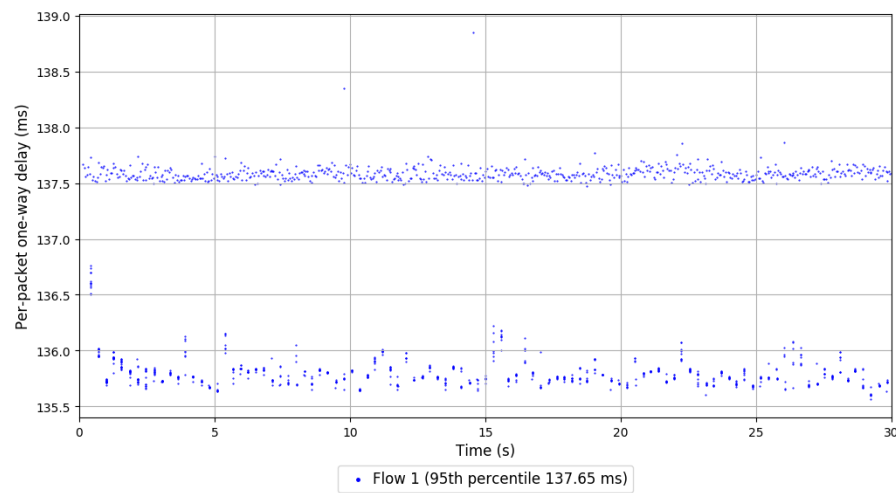
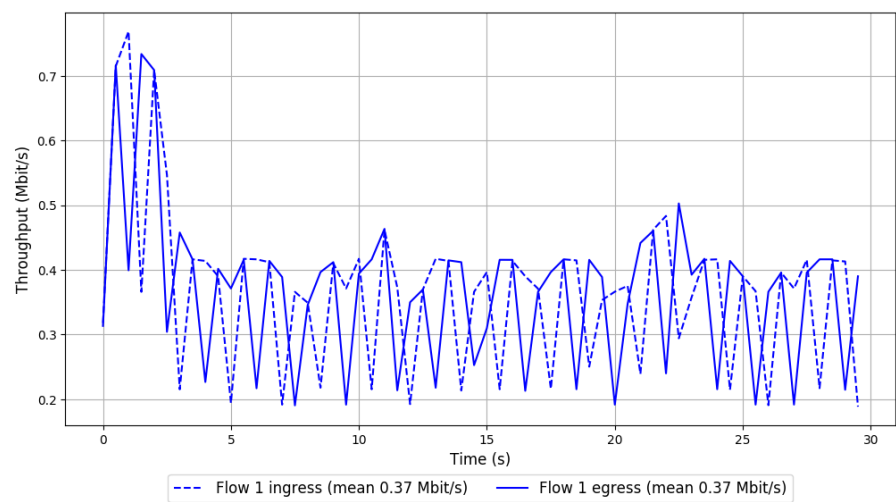
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.649 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

End at: 2017-09-18 11:10:40

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.123 ms

Loss rate: 0.00%

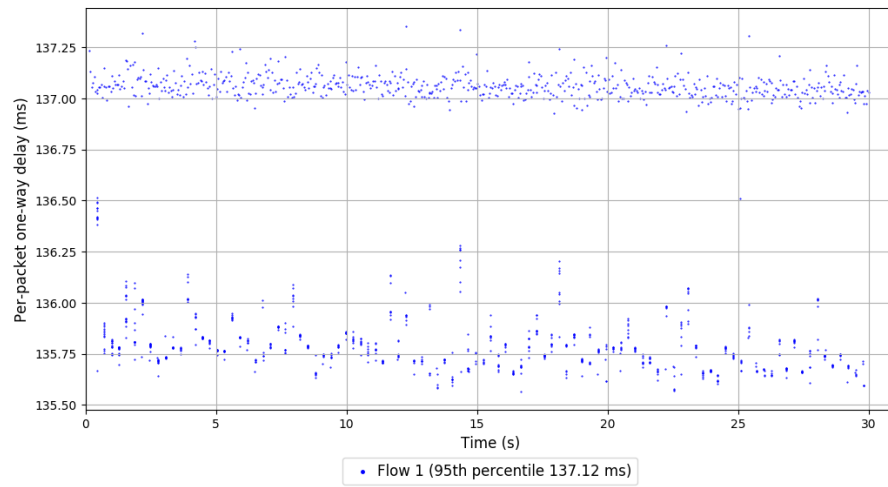
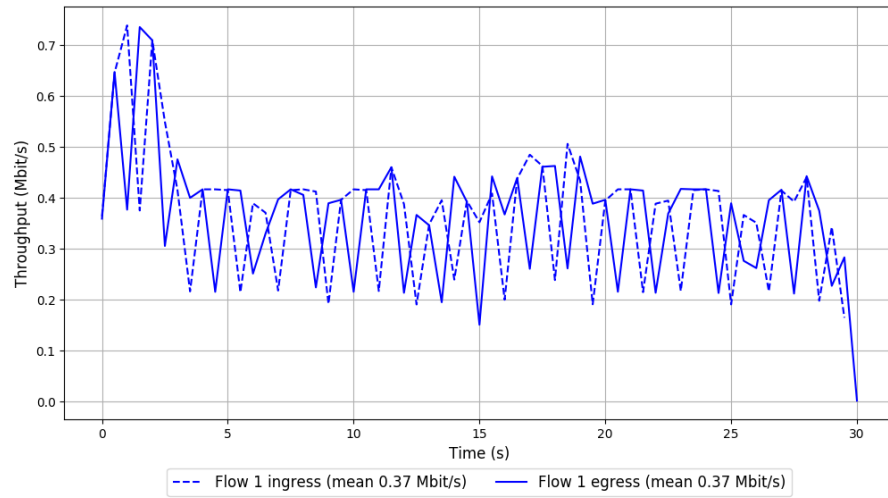
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.123 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-18 11:22:30

End at: 2017-09-18 11:23:00

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.088 ms

Loss rate: 0.00%

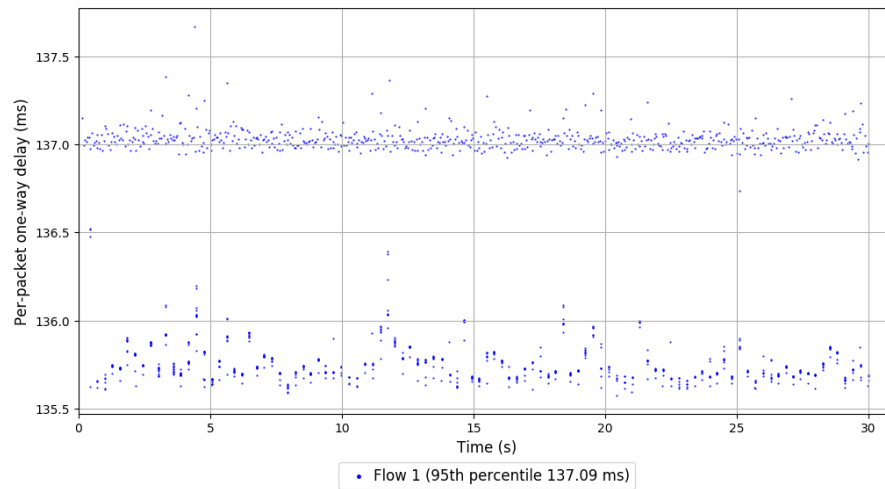
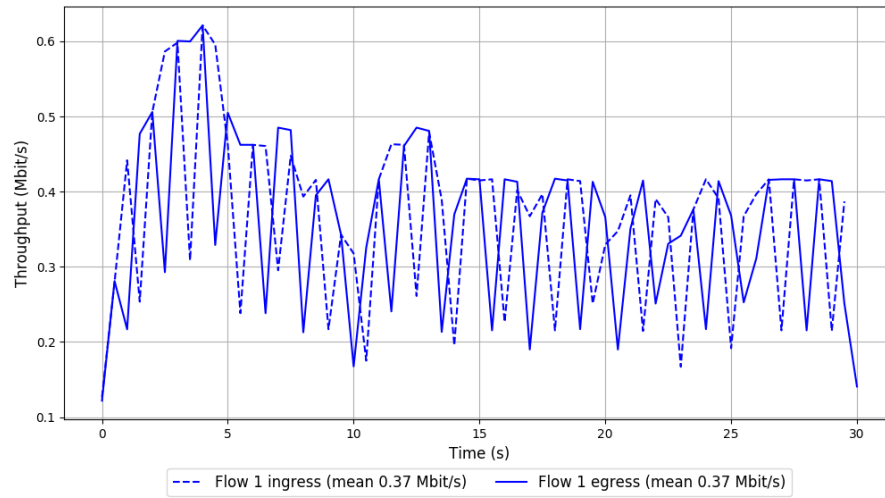
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.088 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-18 11:34:20

End at: 2017-09-18 11:34:50

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.030 ms

Loss rate: 0.00%

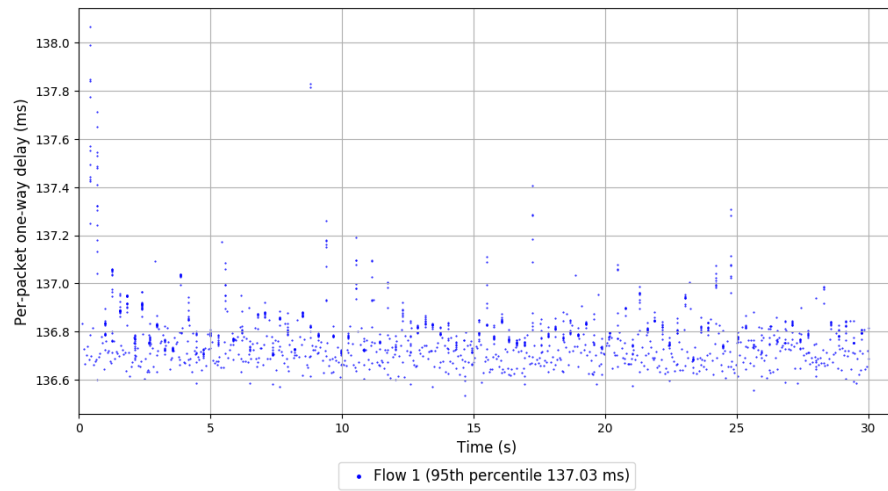
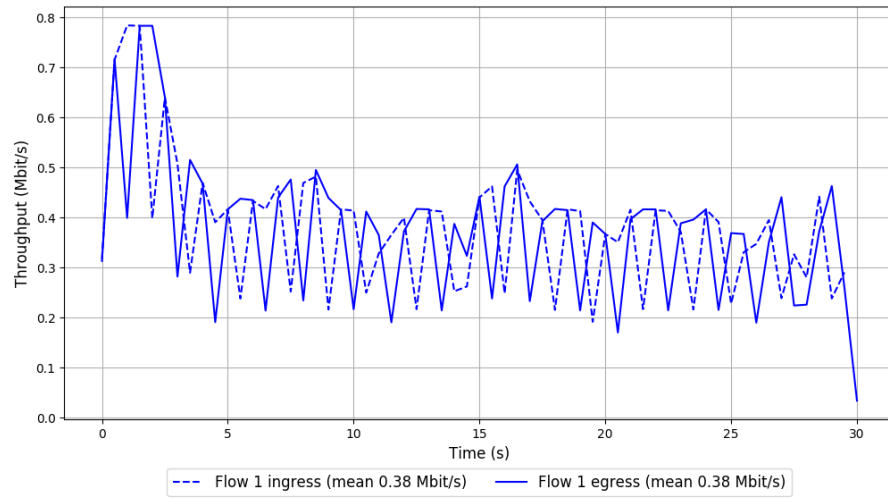
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.030 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

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

End at: 2017-09-18 11:46:48

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.100 ms

Loss rate: 0.00%

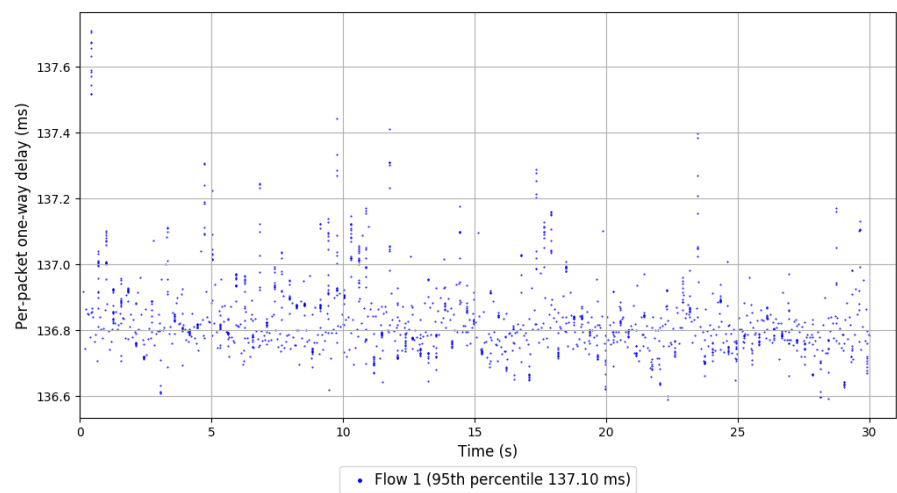
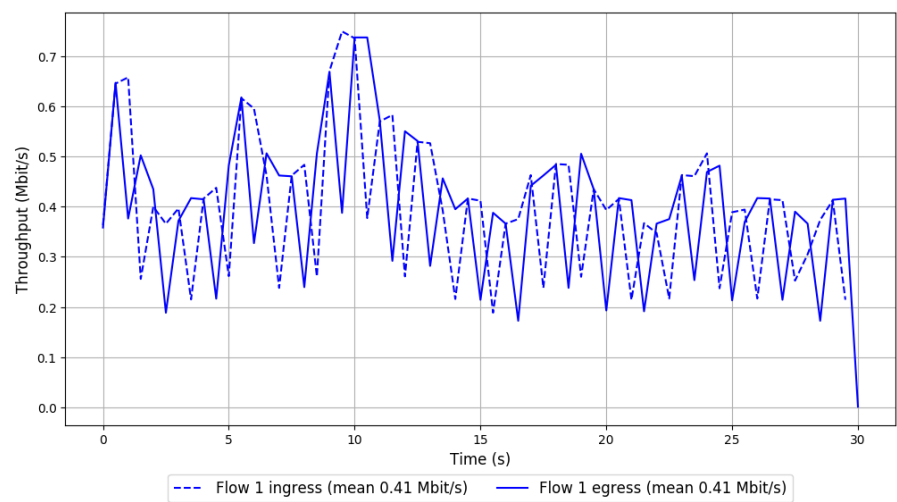
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.100 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

End at: 2017-09-18 11:59:28

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.116 ms

Loss rate: 0.00%

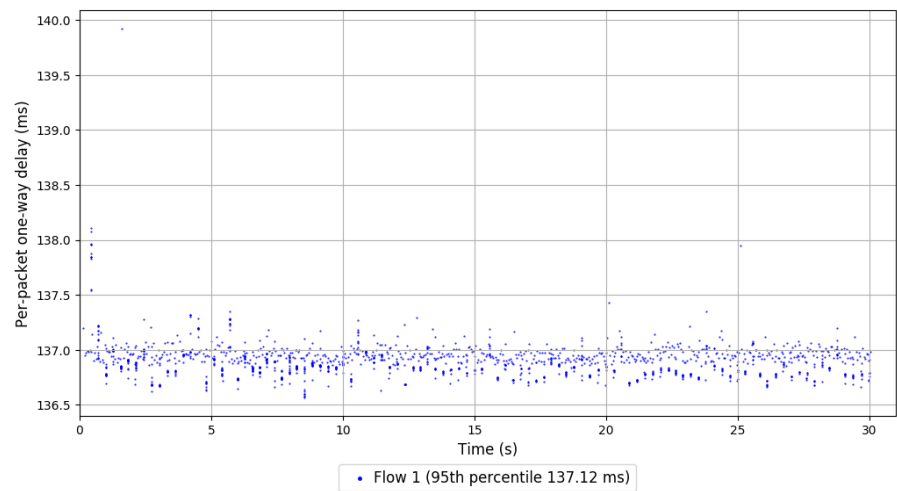
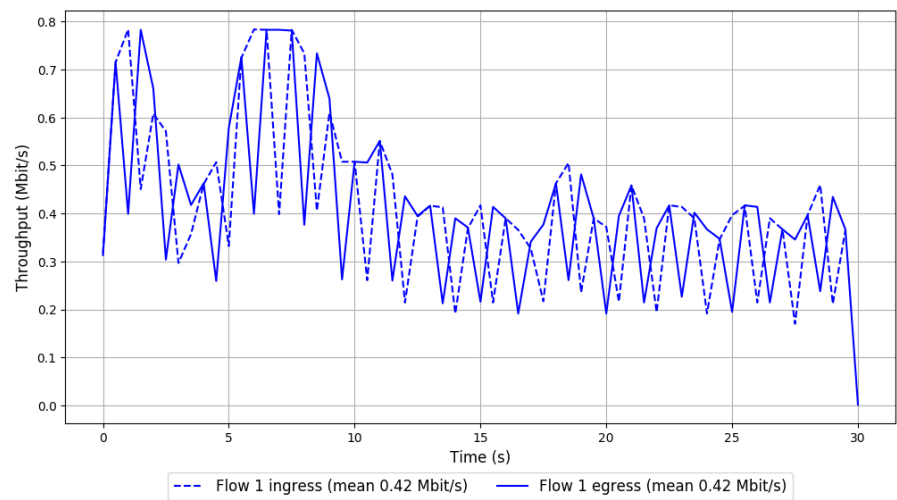
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.116 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-18 12:11:22

End at: 2017-09-18 12:11:52

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.142 ms

Loss rate: 0.00%

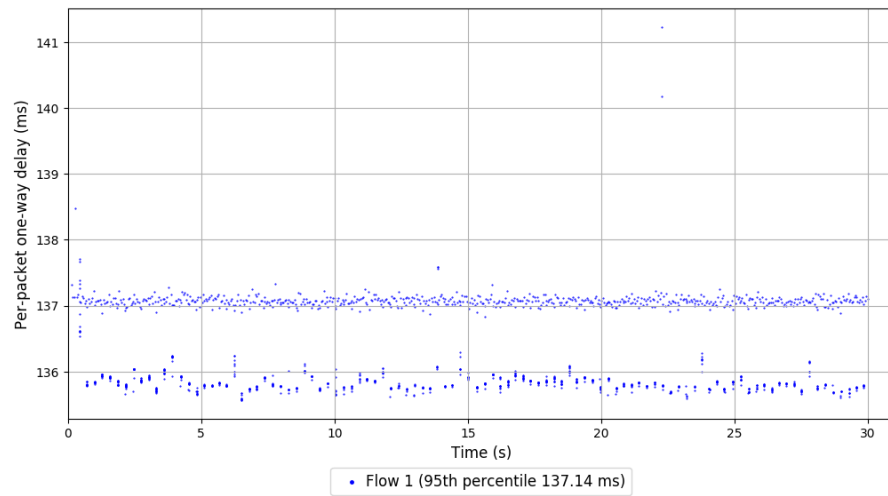
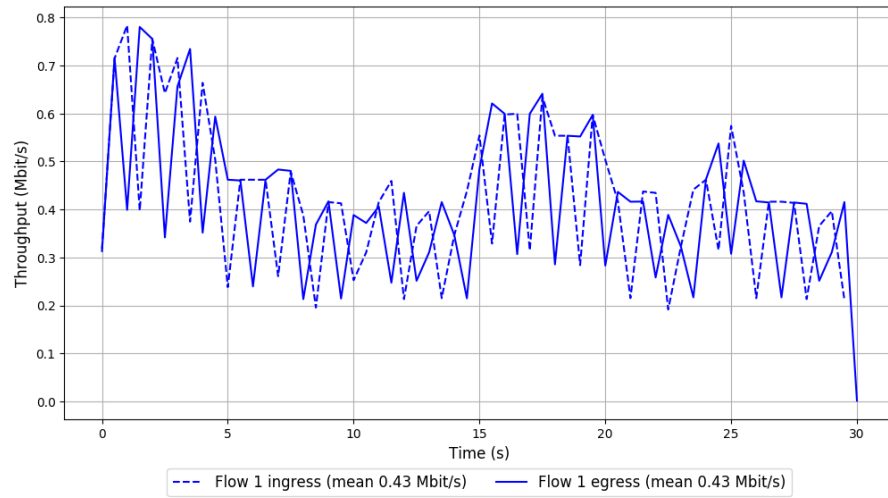
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.142 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-18 12:23:06

End at: 2017-09-18 12:23:36

Below is generated by plot.py at 2017-09-18 13:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 137.052 ms

Loss rate: 0.00%

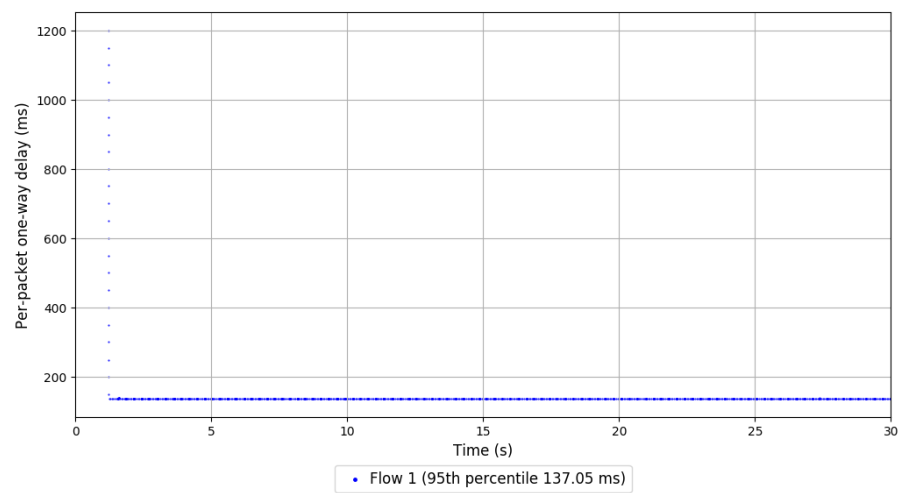
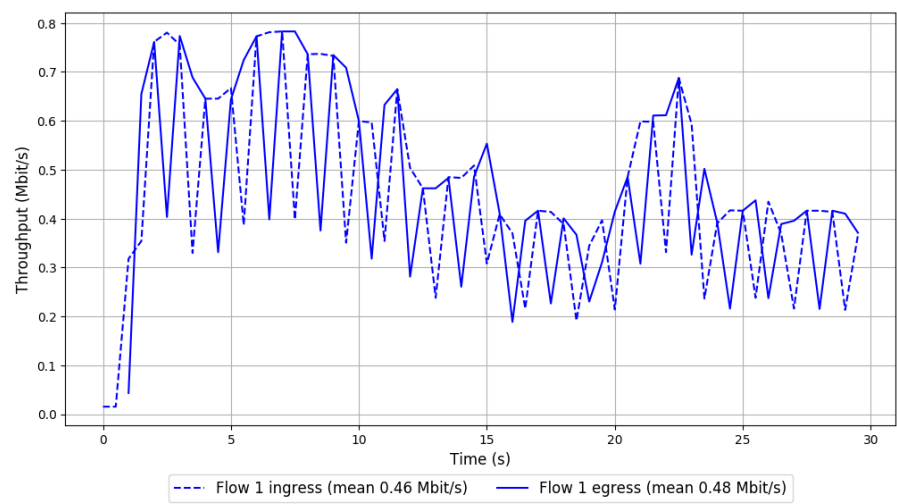
-- Flow 1:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 137.052 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

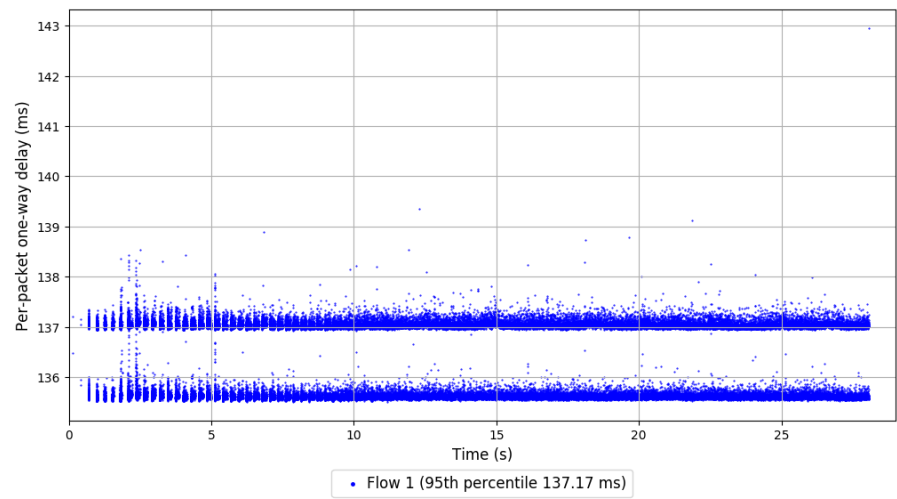
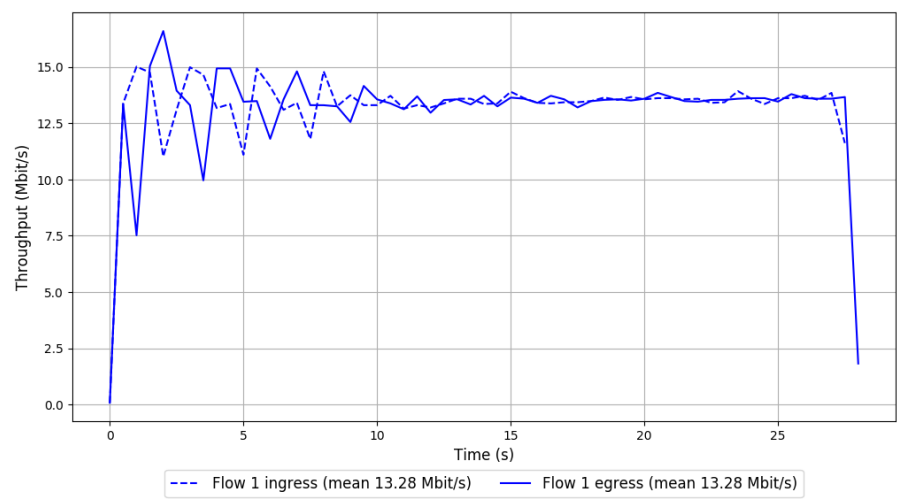


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 10:31:57
End at: 2017-09-18 10:32:27

# Below is generated by plot.py at 2017-09-18 13:31:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 137.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 137.169 ms
Loss rate: 0.00%
```

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

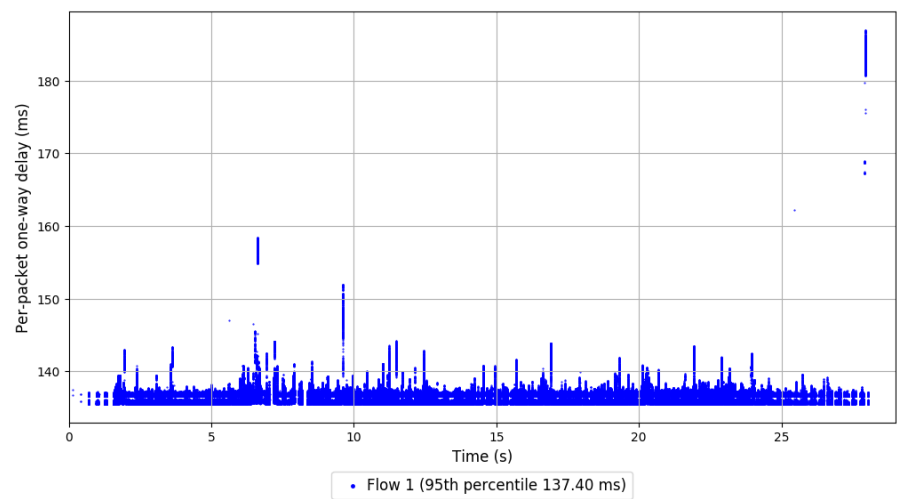
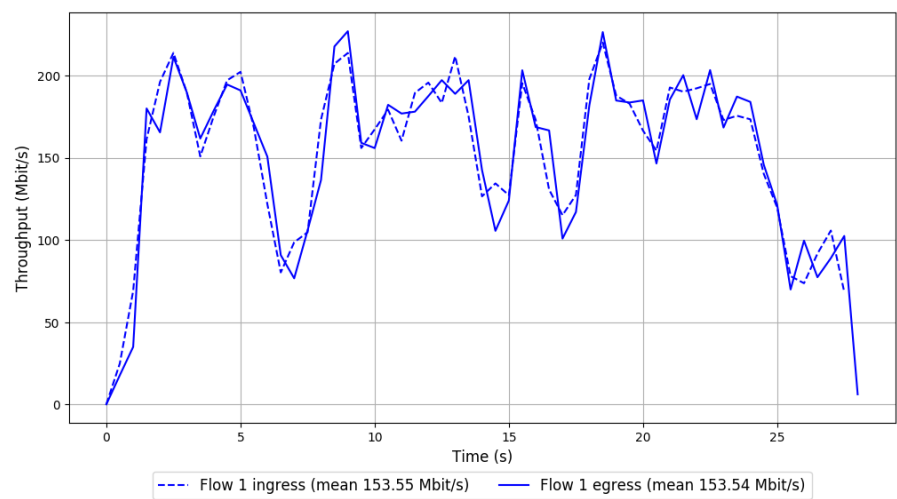


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 10:43:53
End at: 2017-09-18 10:44:23

# Below is generated by plot.py at 2017-09-18 13:31:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.54 Mbit/s
95th percentile per-packet one-way delay: 137.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.54 Mbit/s
95th percentile per-packet one-way delay: 137.400 ms
Loss rate: 0.00%
```

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

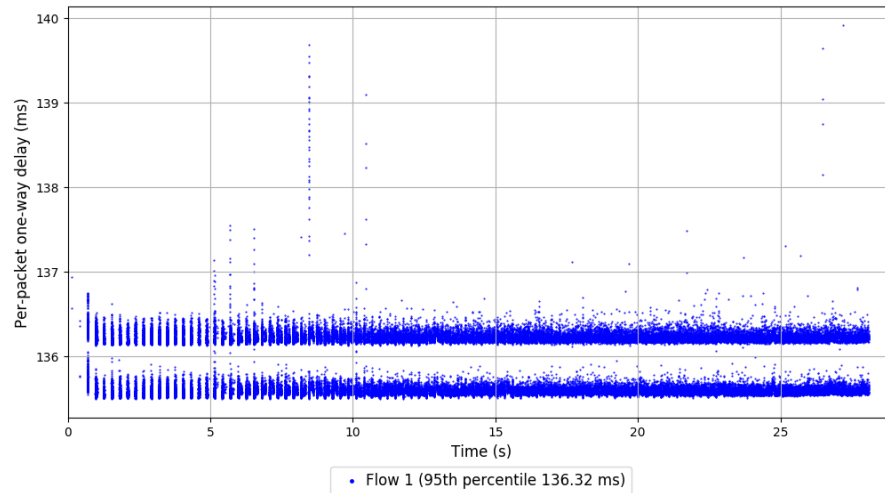
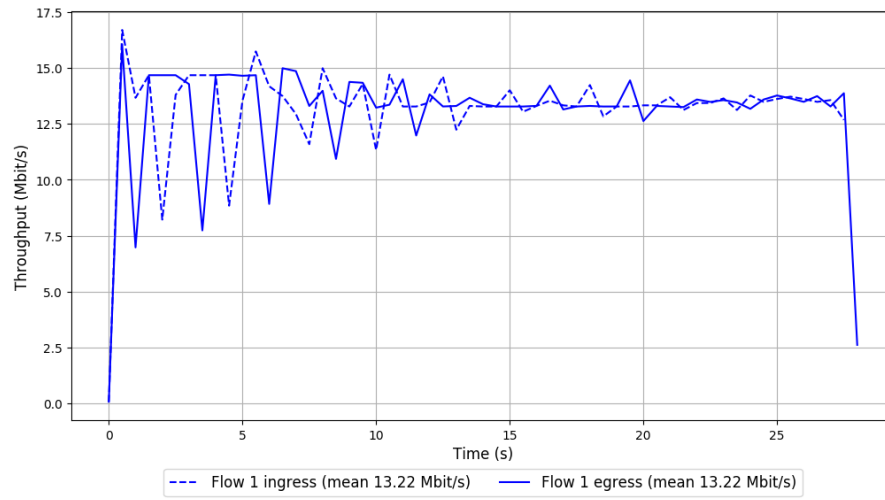


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 10:56:31
End at: 2017-09-18 10:57:02

# Below is generated by plot.py at 2017-09-18 13:31:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 0.00%
```


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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 11:08:21

End at: 2017-09-18 11:08:51

Below is generated by plot.py at 2017-09-18 13:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.28 Mbit/s

95th percentile per-packet one-way delay: 136.752 ms

Loss rate: 0.00%

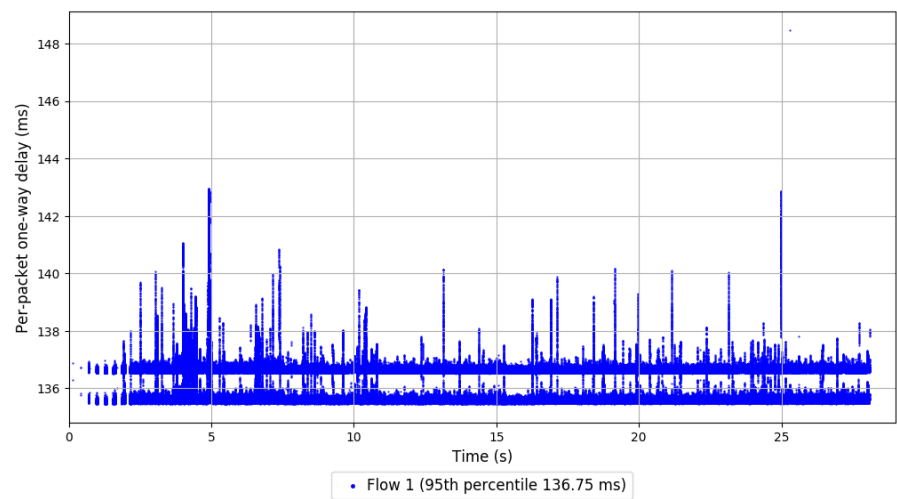
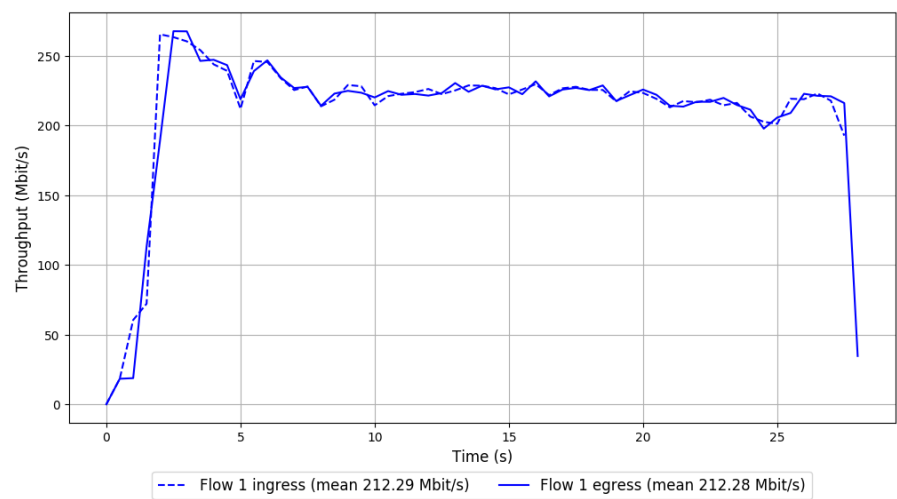
-- Flow 1:

Average throughput: 212.28 Mbit/s

95th percentile per-packet one-way delay: 136.752 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 11:21:02

End at: 2017-09-18 11:21:32

Below is generated by plot.py at 2017-09-18 13:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 135.924 ms

Loss rate: 0.00%

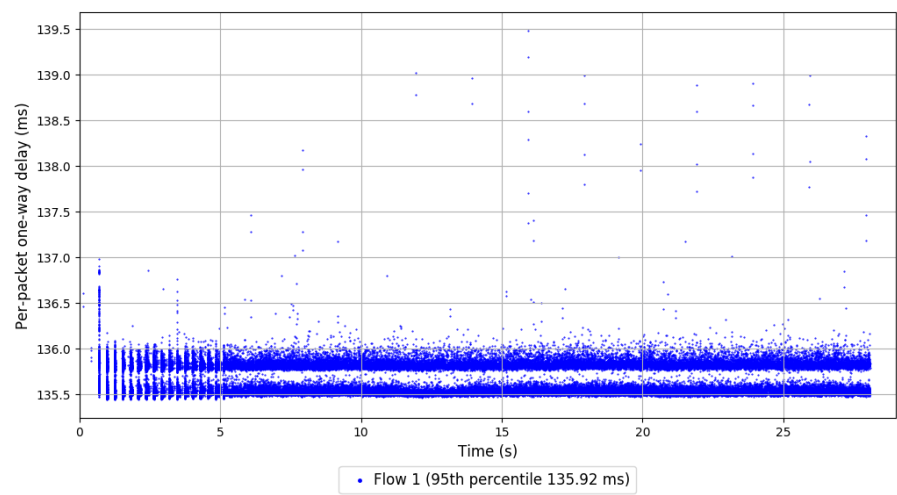
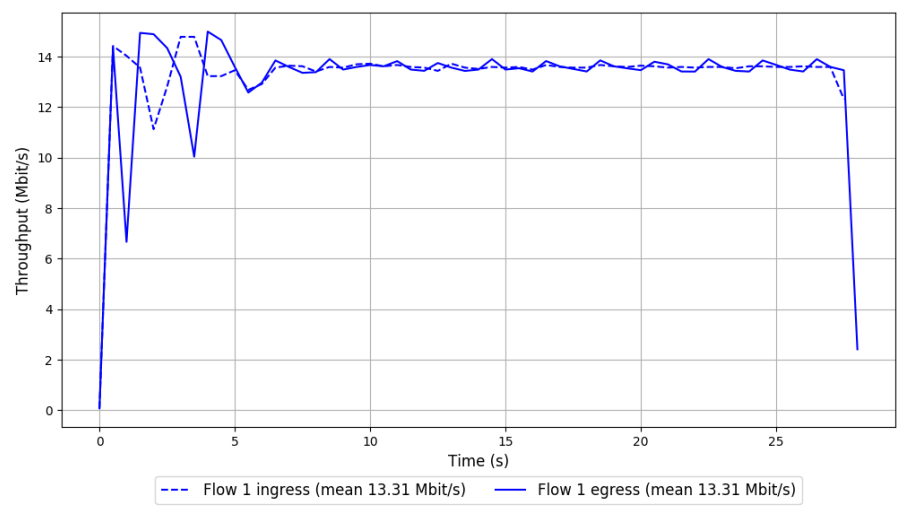
-- Flow 1:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 135.924 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 11:32:52

End at: 2017-09-18 11:33:22

Below is generated by plot.py at 2017-09-18 13:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 136.628 ms

Loss rate: 0.00%

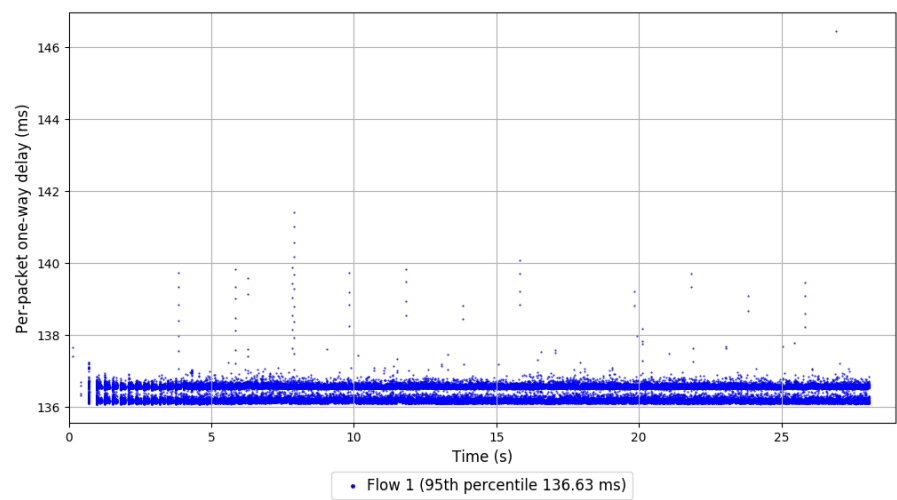
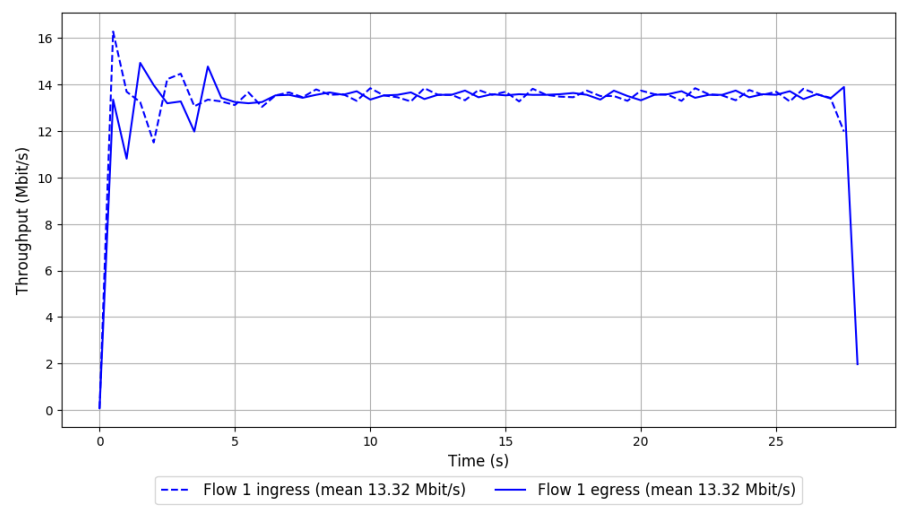
-- Flow 1:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 136.628 ms

Loss rate: 0.00%

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

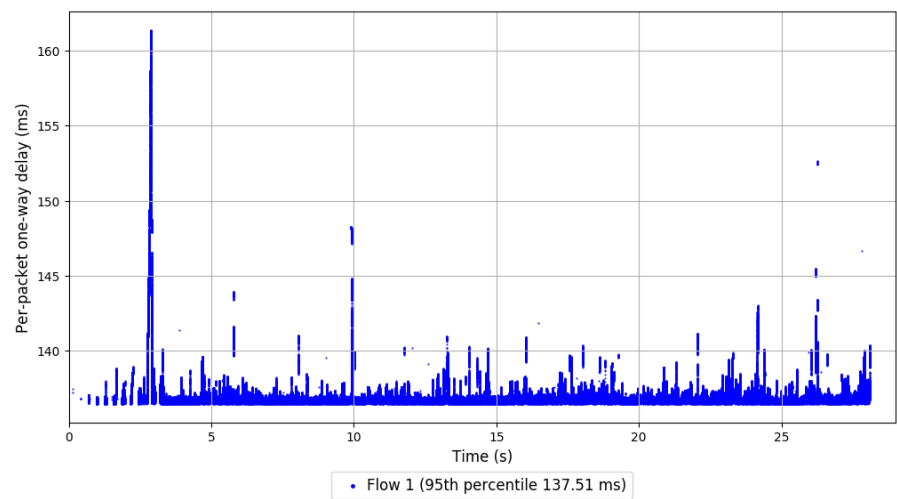
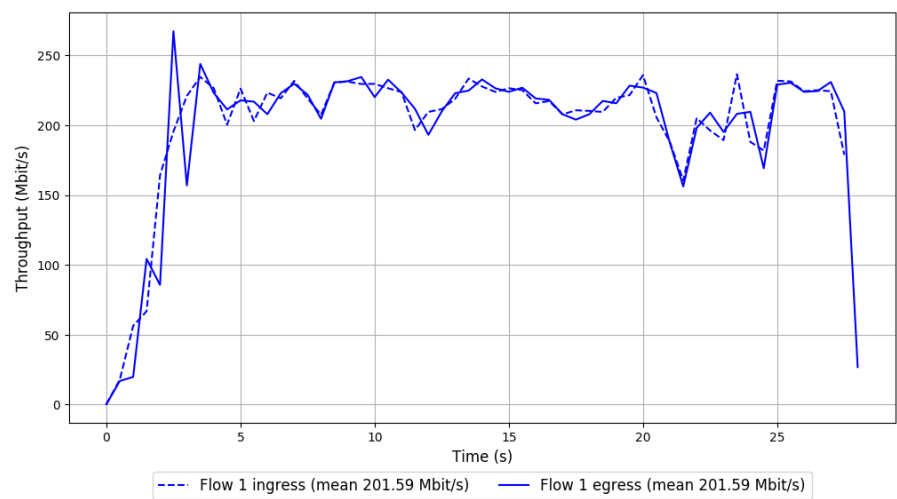


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 11:44:28
End at: 2017-09-18 11:44:58

# Below is generated by plot.py at 2017-09-18 13:32:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.59 Mbit/s
95th percentile per-packet one-way delay: 137.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.59 Mbit/s
95th percentile per-packet one-way delay: 137.513 ms
Loss rate: 0.00%
```


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



Run 8: Statistics of TaoVA-100x

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

End at: 2017-09-18 11:57:40

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.78 Mbit/s

95th percentile per-packet one-way delay: 137.013 ms

Loss rate: 0.00%

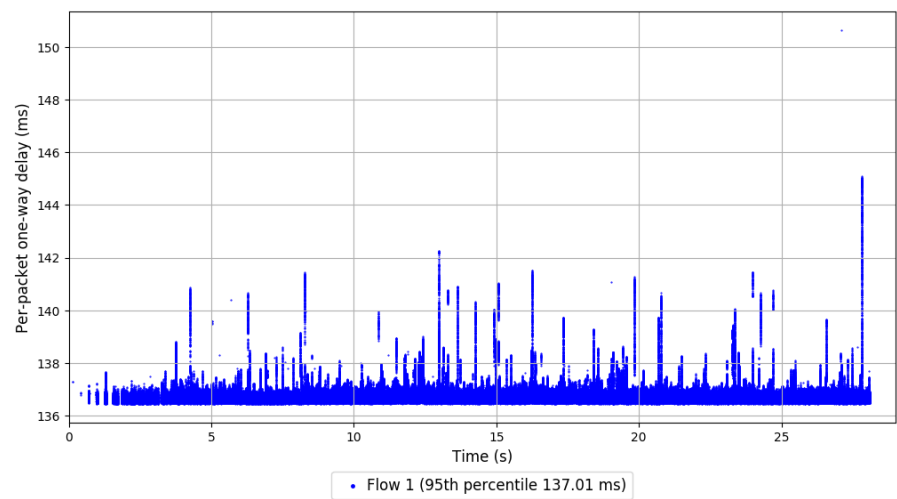
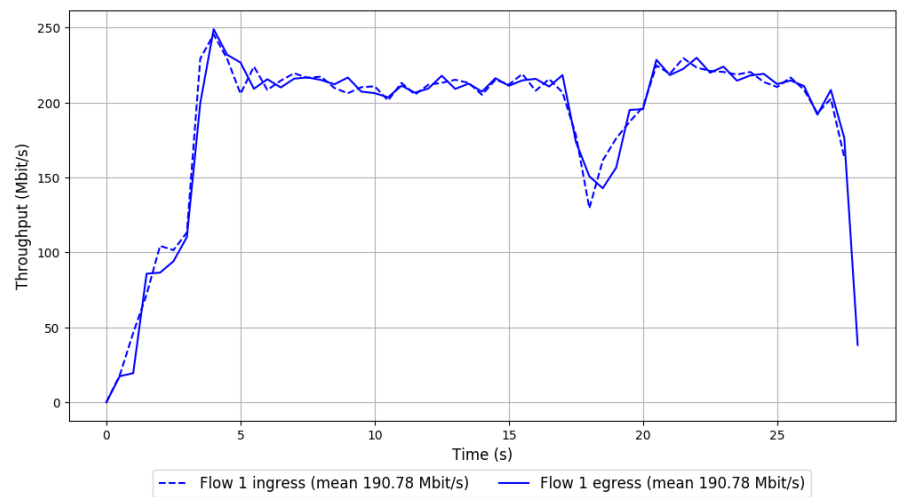
-- Flow 1:

Average throughput: 190.78 Mbit/s

95th percentile per-packet one-way delay: 137.013 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 12:09:53

End at: 2017-09-18 12:10:23

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 136.971 ms

Loss rate: 0.00%

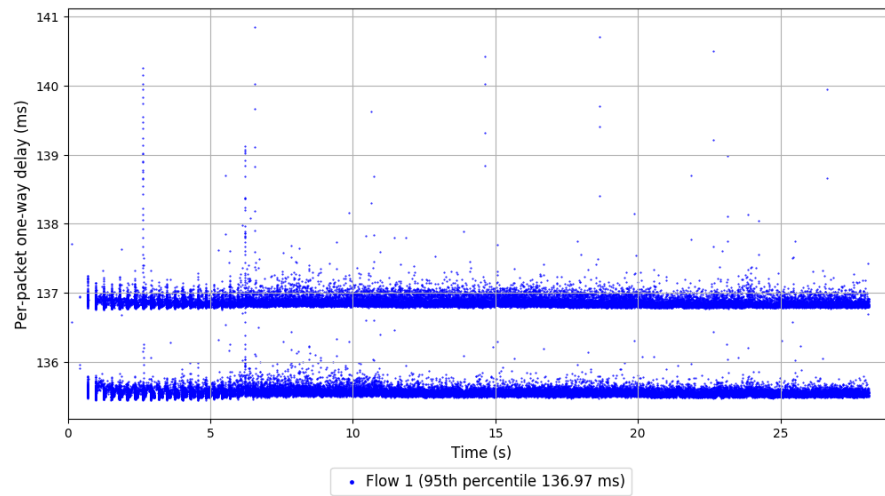
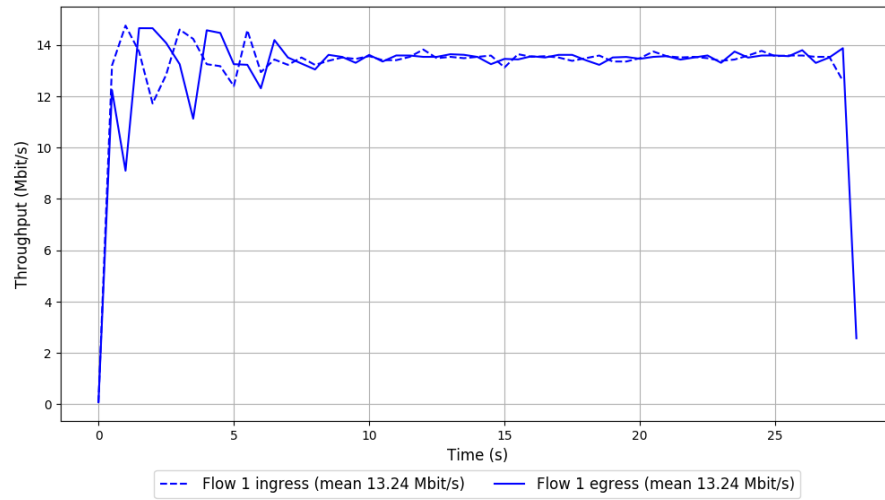
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 136.971 ms

Loss rate: 0.00%

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

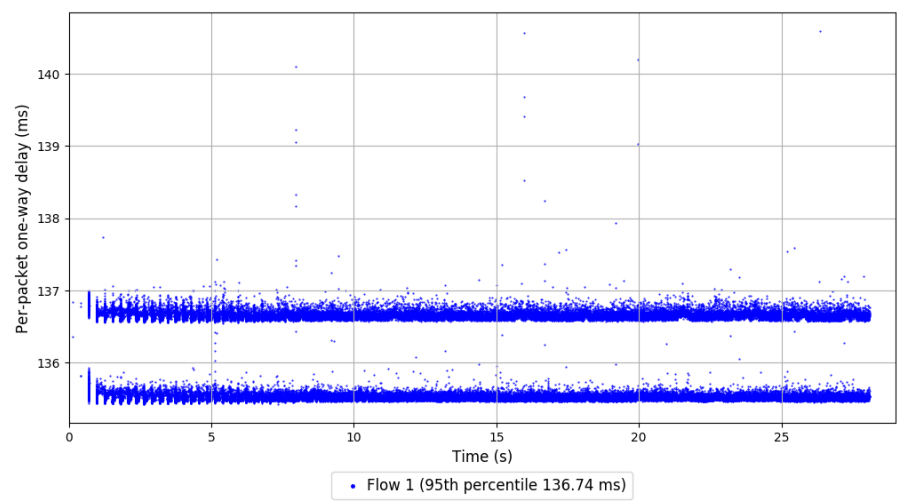
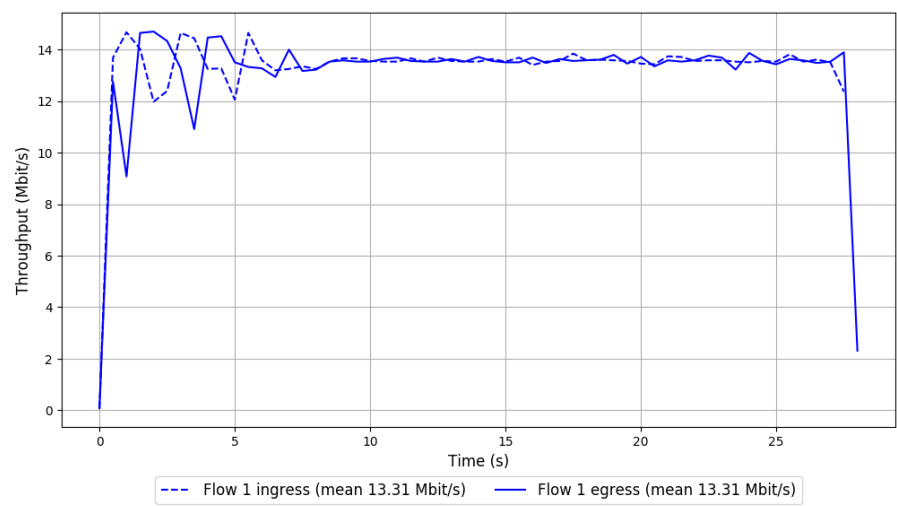


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-18 12:21:38
End at: 2017-09-18 12:22:08

# Below is generated by plot.py at 2017-09-18 13:34:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 136.742 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 136.742 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2017-09-18 10:29:59

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 138.435 ms

Loss rate: 0.00%

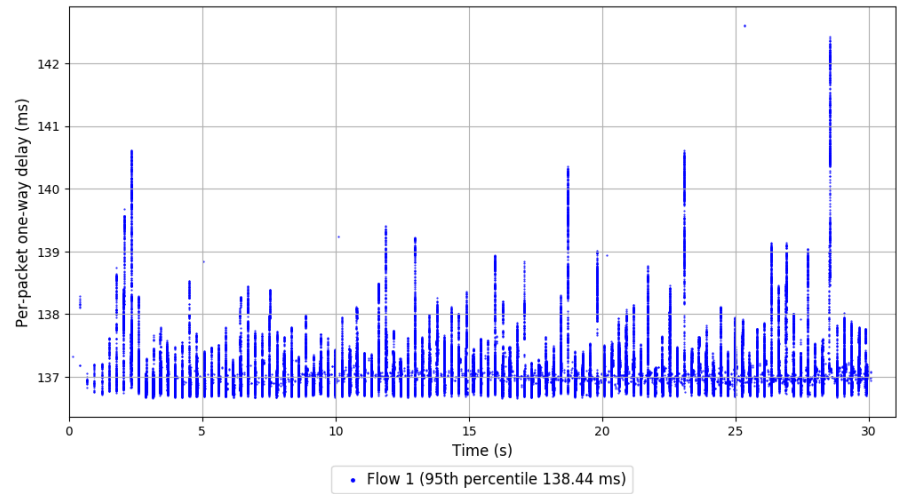
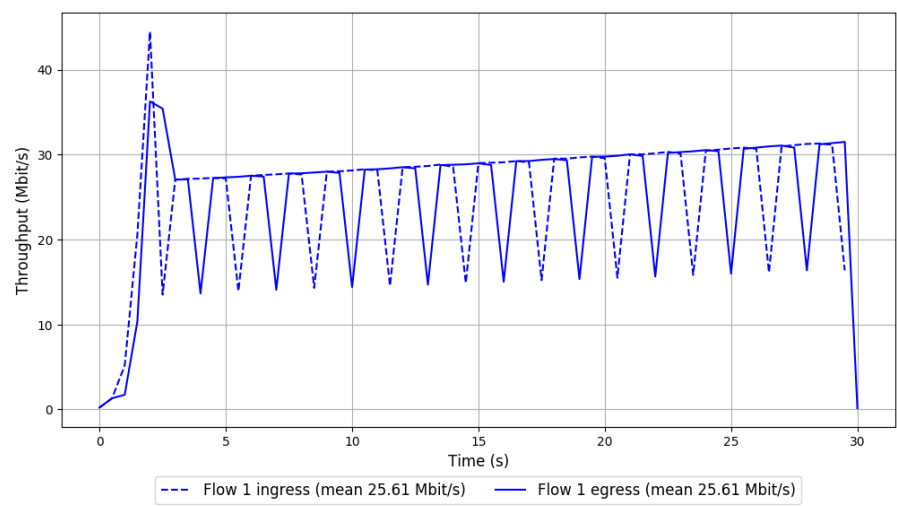
-- Flow 1:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 138.435 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 10:41:25

End at: 2017-09-18 10:41:55

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.19 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 0.00%

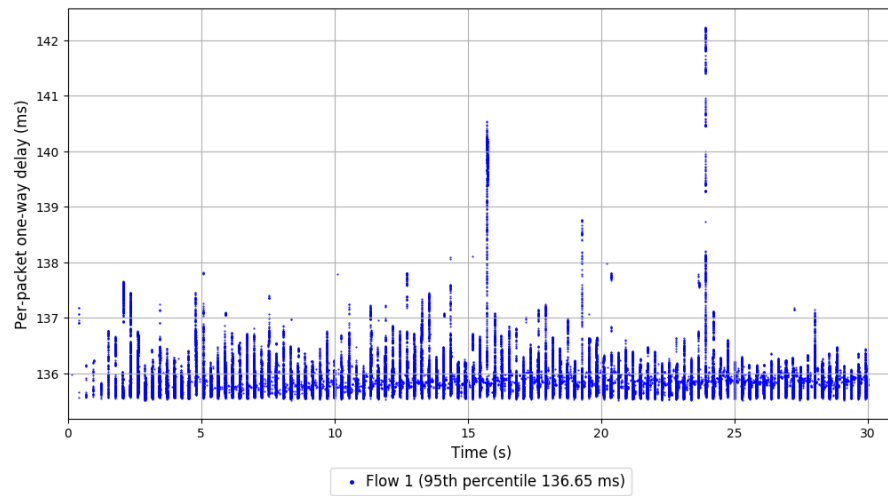
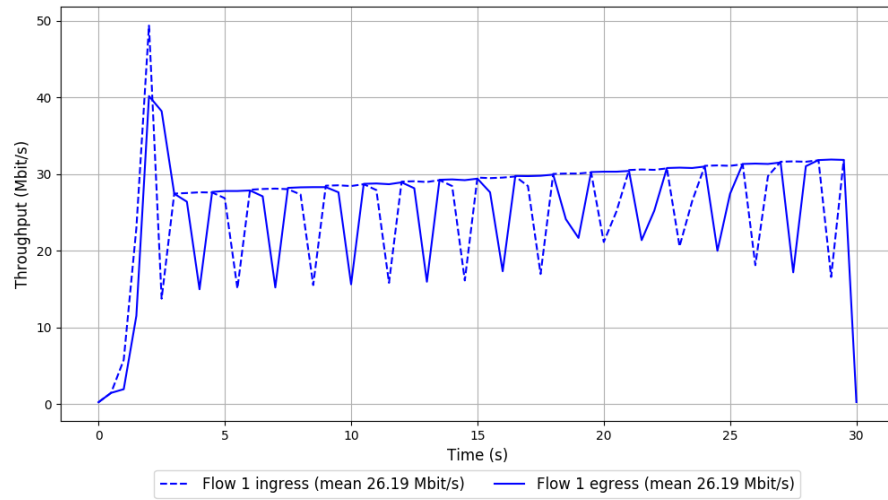
-- Flow 1:

Average throughput: 26.19 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 10:54:06

End at: 2017-09-18 10:54:36

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 136.826 ms

Loss rate: 0.01%

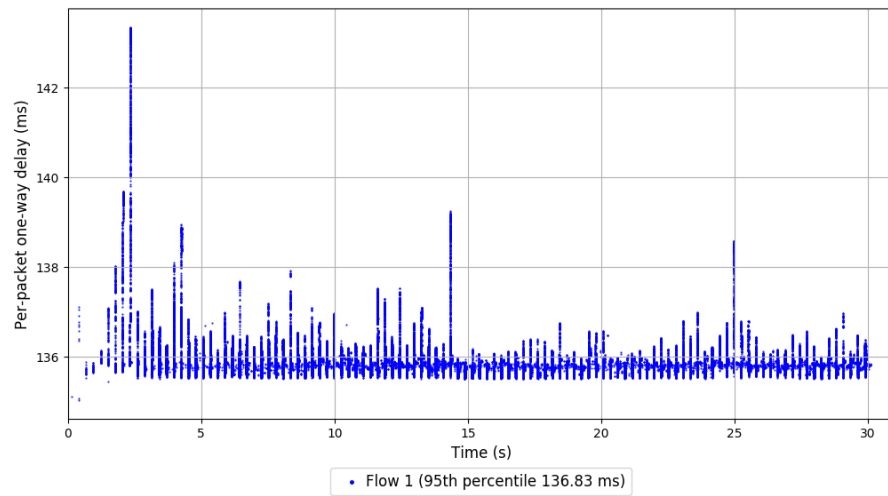
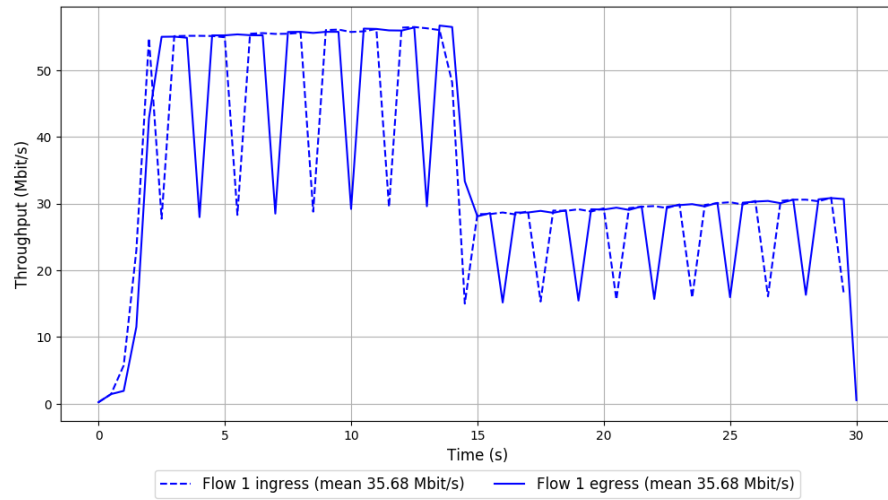
-- Flow 1:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 136.826 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 11:05:57

End at: 2017-09-18 11:06:27

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 138.566 ms

Loss rate: 0.04%

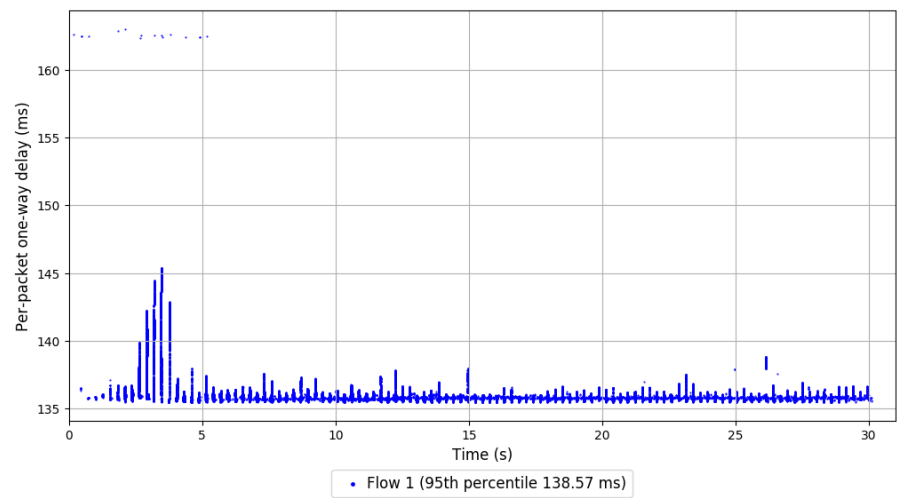
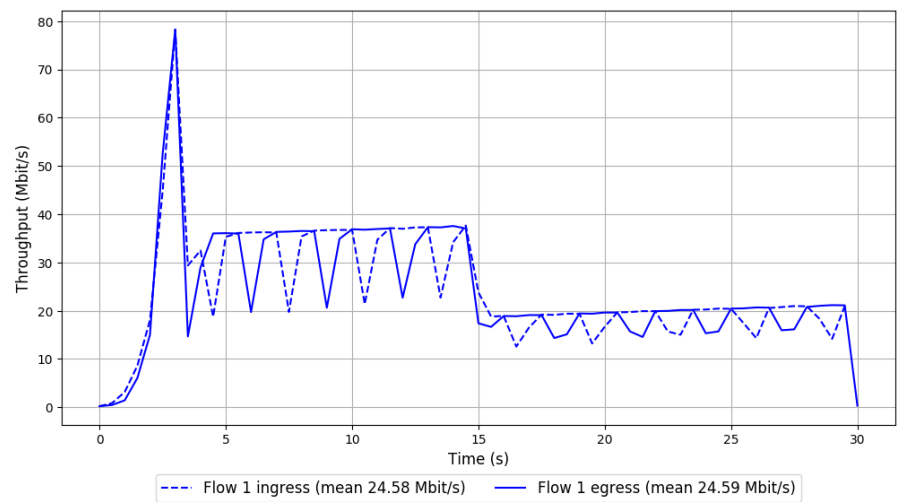
-- Flow 1:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 138.566 ms

Loss rate: 0.04%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

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

End at: 2017-09-18 11:19:03

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 136.917 ms

Loss rate: 0.02%

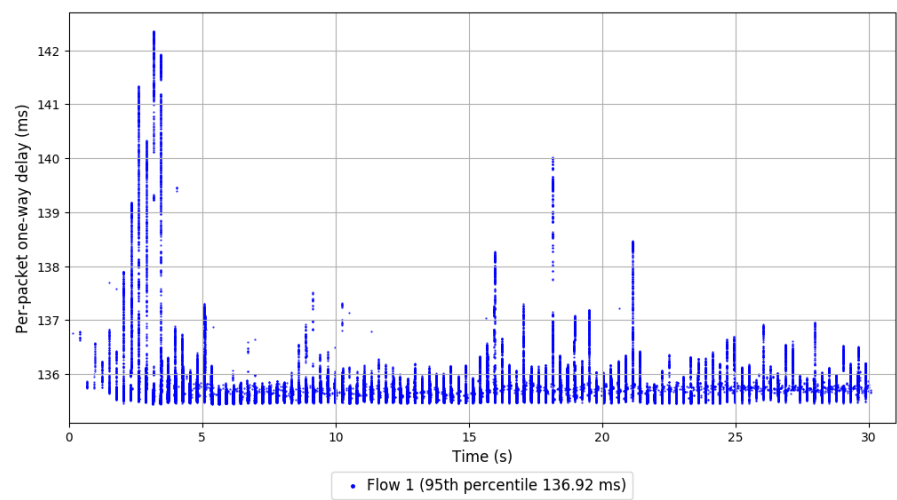
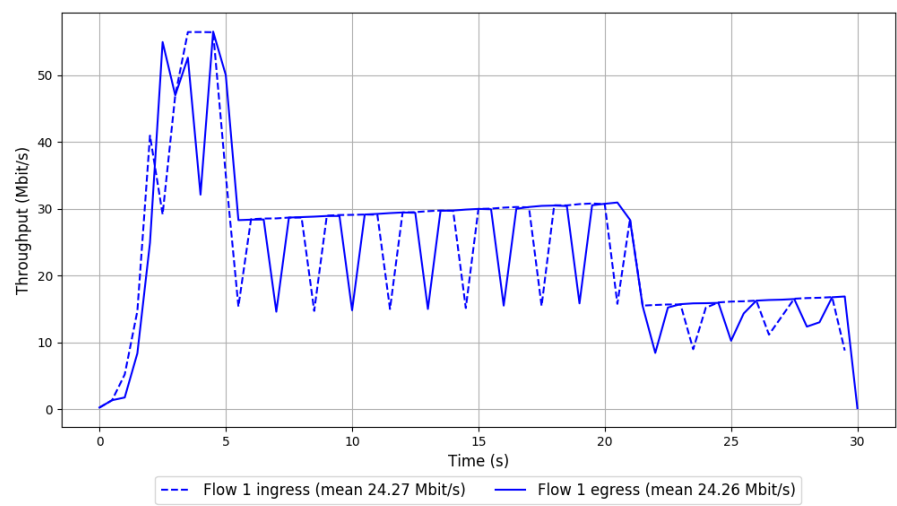
-- Flow 1:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 136.917 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 11:30:29

End at: 2017-09-18 11:30:59

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 0.03%

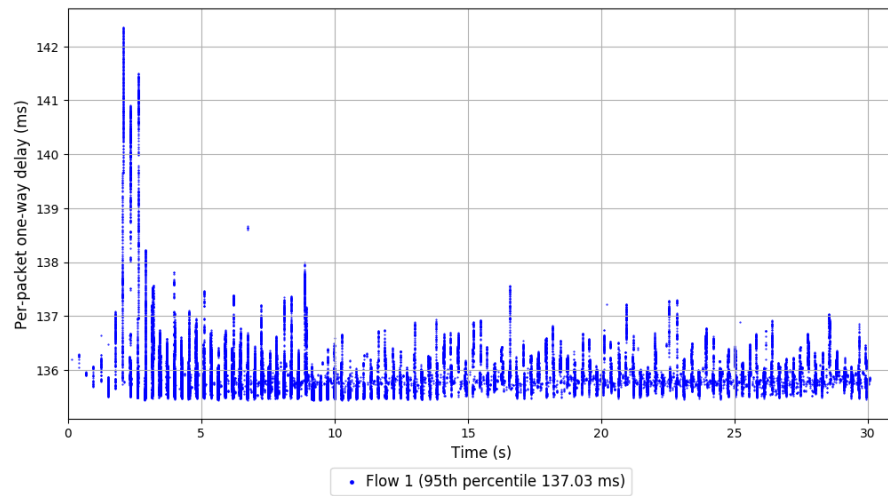
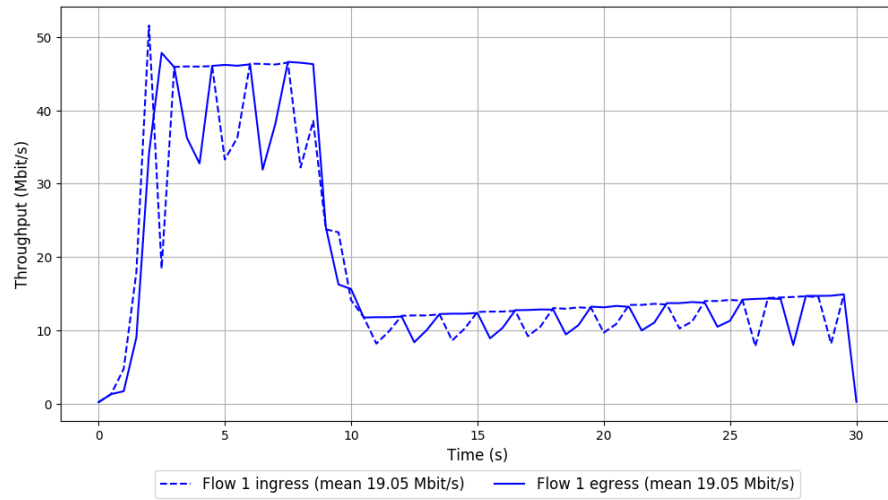
-- Flow 1:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 0.03%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

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

End at: 2017-09-18 11:42:41

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 138.043 ms

Loss rate: 0.00%

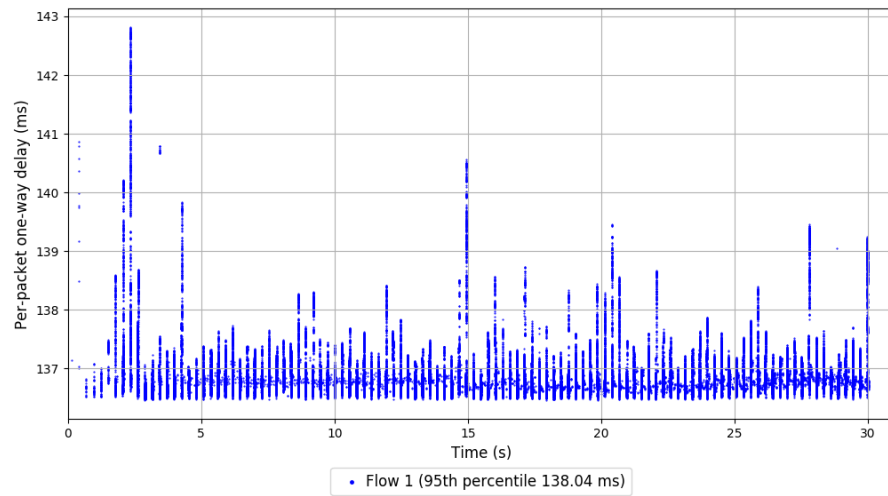
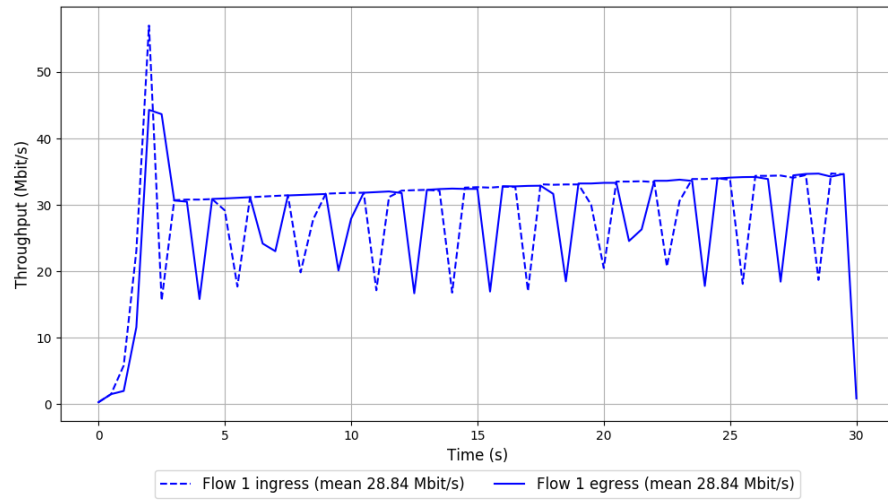
-- Flow 1:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 138.043 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

End at: 2017-09-18 11:55:15

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.11 Mbit/s

95th percentile per-packet one-way delay: 138.864 ms

Loss rate: 0.00%

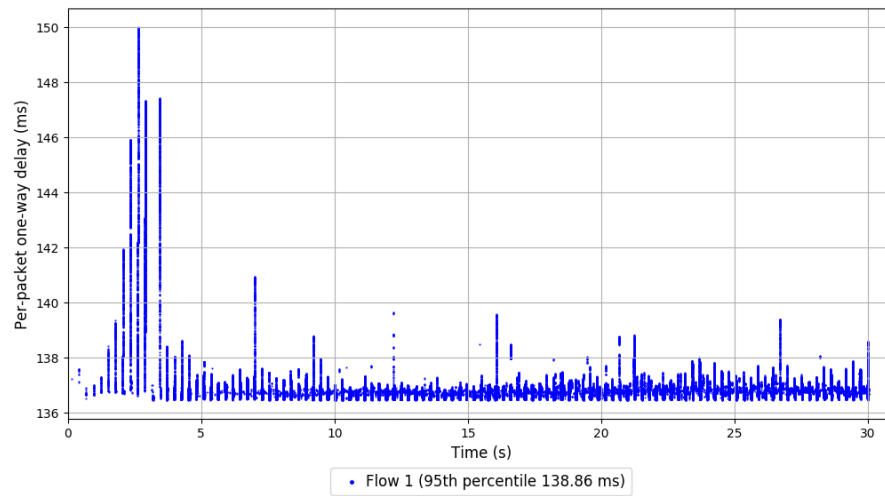
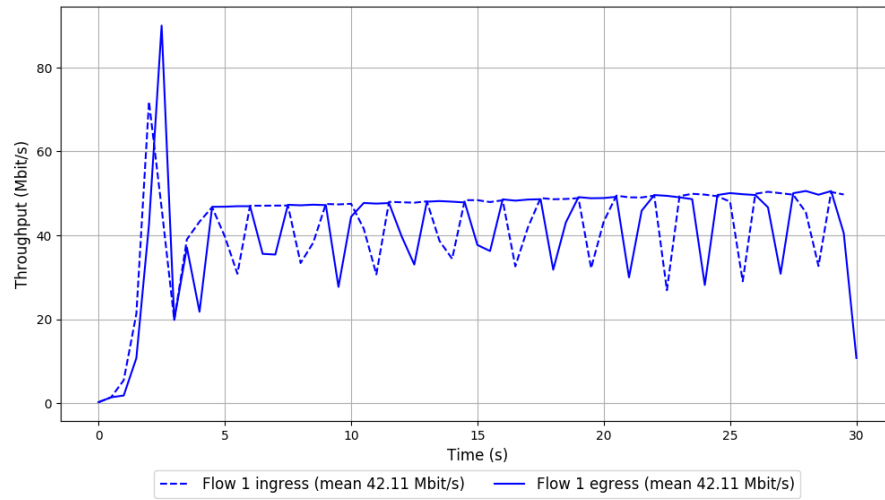
-- Flow 1:

Average throughput: 42.11 Mbit/s

95th percentile per-packet one-way delay: 138.864 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 12:07:28

End at: 2017-09-18 12:07:58

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 138.732 ms

Loss rate: 0.01%

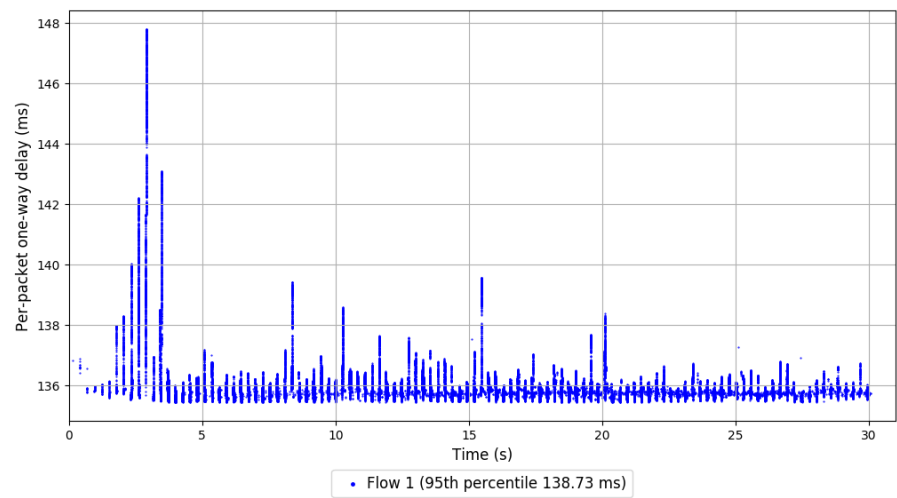
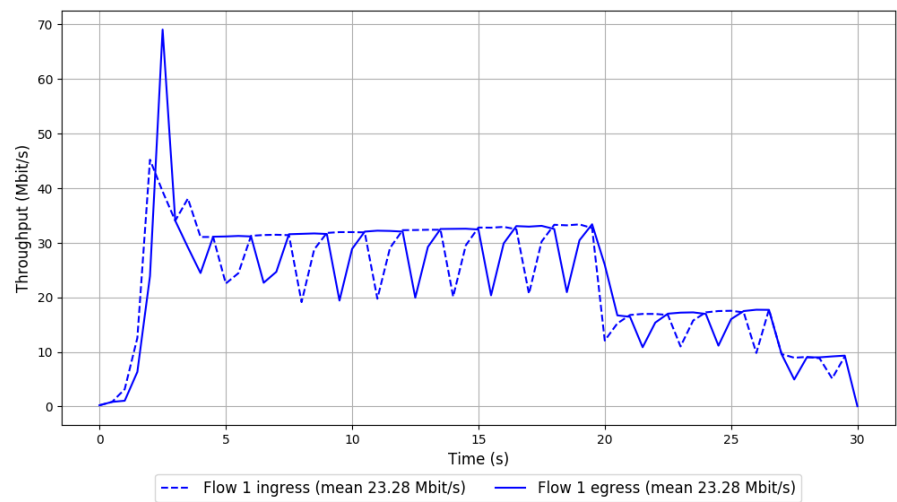
-- Flow 1:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 138.732 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-18 12:19:21

End at: 2017-09-18 12:19:51

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.89 Mbit/s

95th percentile per-packet one-way delay: 140.028 ms

Loss rate: 0.01%

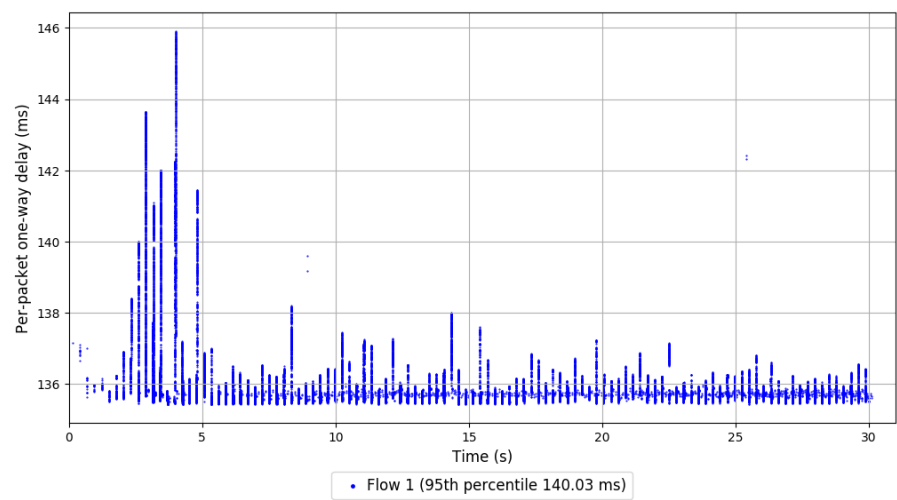
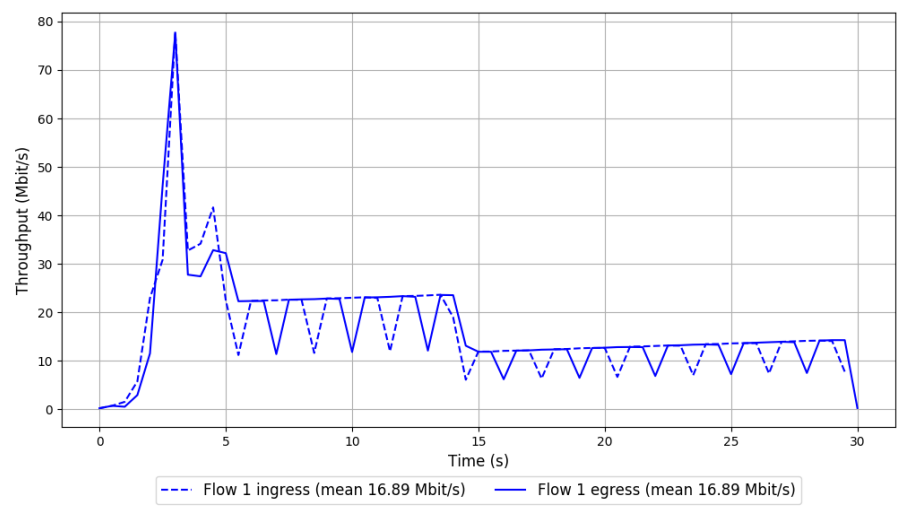
-- Flow 1:

Average throughput: 16.89 Mbit/s

95th percentile per-packet one-way delay: 140.028 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-18 10:30:57

End at: 2017-09-18 10:31:27

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.07 Mbit/s

95th percentile per-packet one-way delay: 254.472 ms

Loss rate: 3.24%

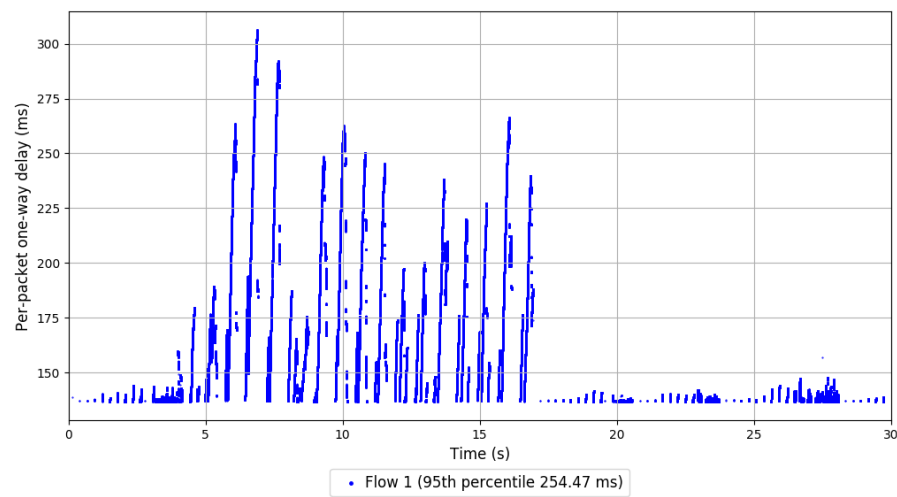
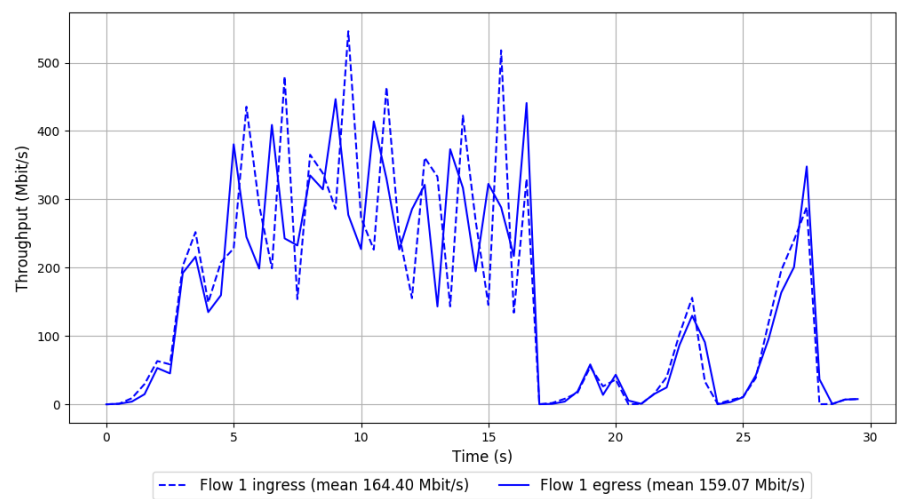
-- Flow 1:

Average throughput: 159.07 Mbit/s

95th percentile per-packet one-way delay: 254.472 ms

Loss rate: 3.24%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-18 10:42:54

End at: 2017-09-18 10:43:24

Below is generated by plot.py at 2017-09-18 13:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.52 Mbit/s

95th percentile per-packet one-way delay: 167.322 ms

Loss rate: 0.01%

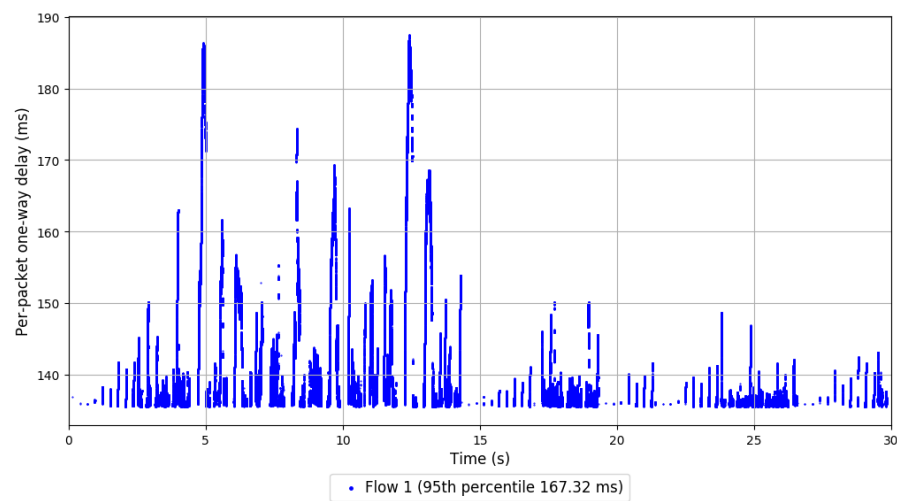
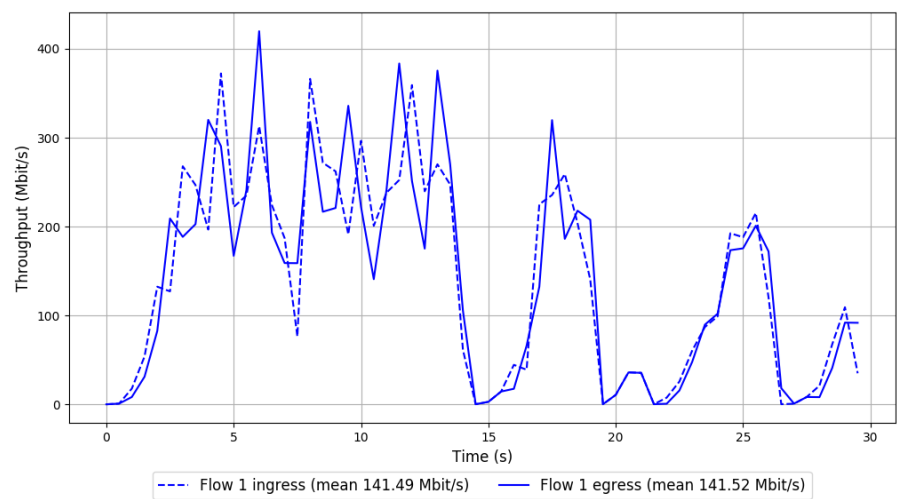
-- Flow 1:

Average throughput: 141.52 Mbit/s

95th percentile per-packet one-way delay: 167.322 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-18 10:55:34

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

Below is generated by plot.py at 2017-09-18 13:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.25 Mbit/s

95th percentile per-packet one-way delay: 302.380 ms

Loss rate: 8.41%

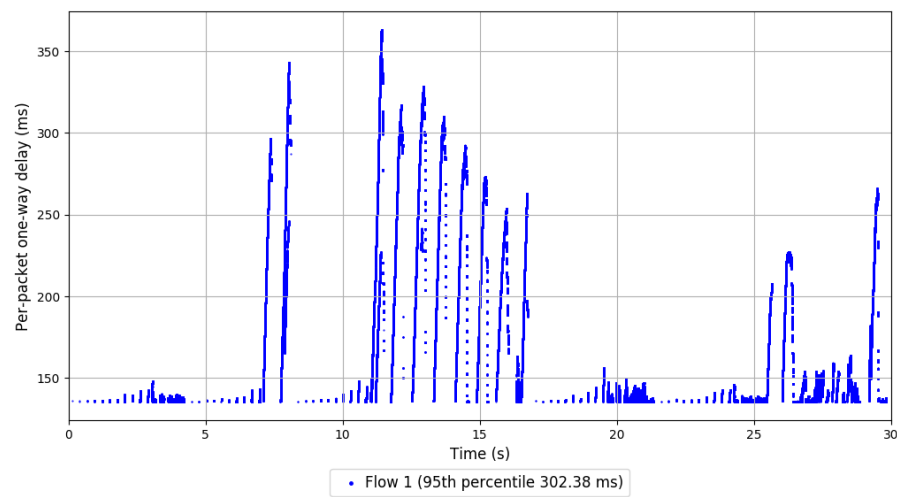
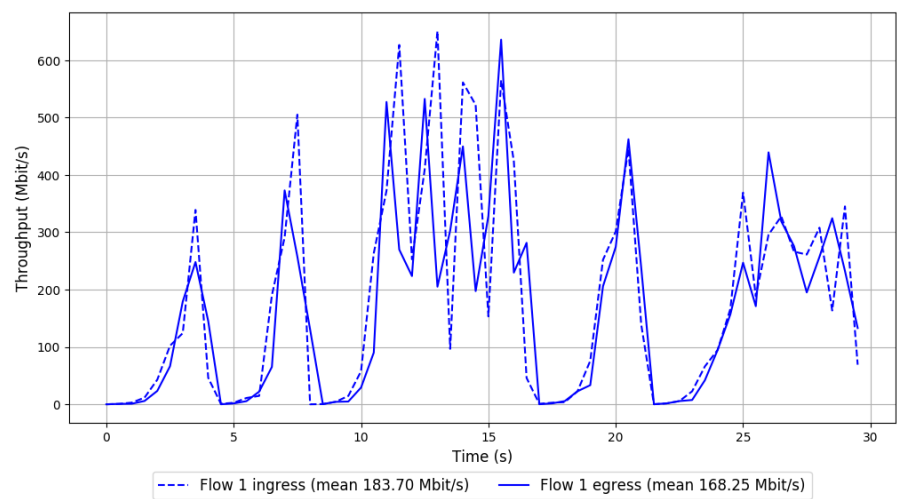
-- Flow 1:

Average throughput: 168.25 Mbit/s

95th percentile per-packet one-way delay: 302.380 ms

Loss rate: 8.41%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-18 11:07:24

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

Below is generated by plot.py at 2017-09-18 13:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.86 Mbit/s

95th percentile per-packet one-way delay: 174.089 ms

Loss rate: 0.00%

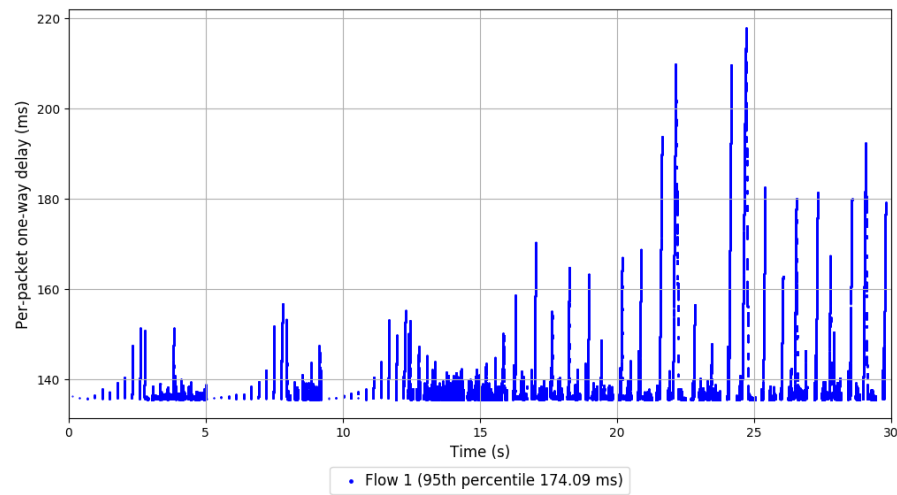
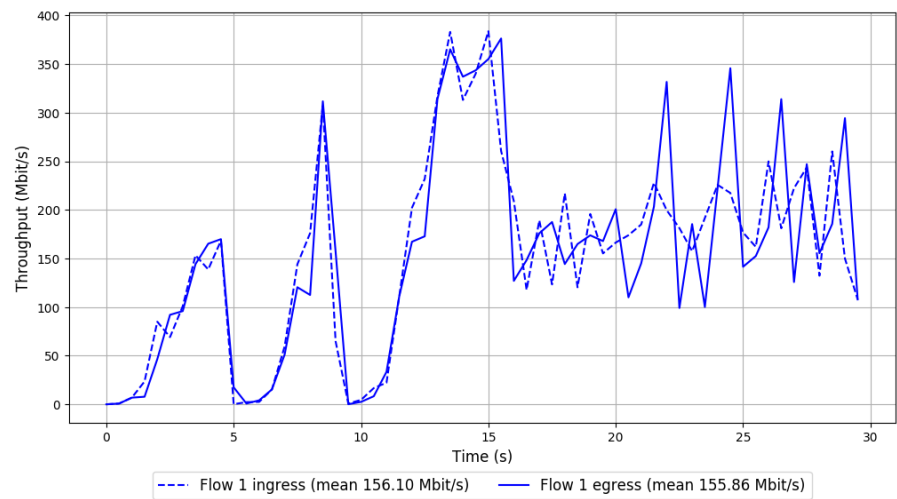
-- Flow 1:

Average throughput: 155.86 Mbit/s

95th percentile per-packet one-way delay: 174.089 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-18 11:20:00

End at: 2017-09-18 11:20:30

Below is generated by plot.py at 2017-09-18 13:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.96 Mbit/s

95th percentile per-packet one-way delay: 172.754 ms

Loss rate: 0.04%

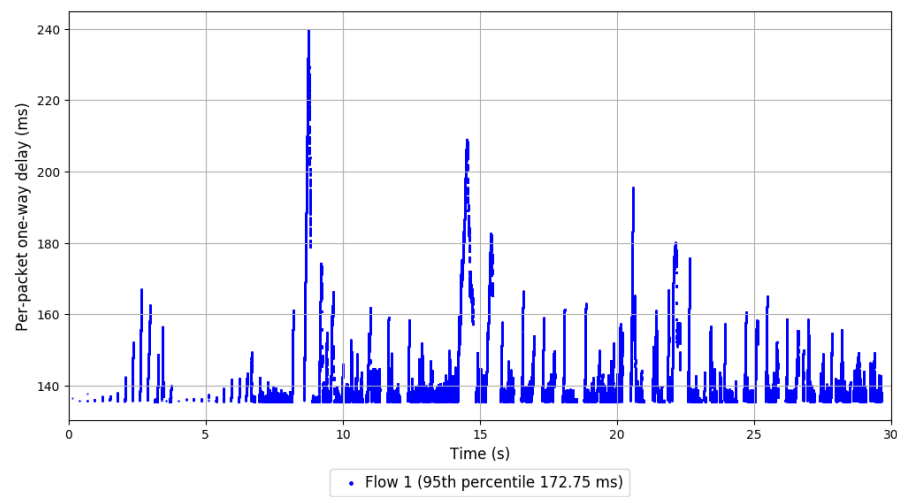
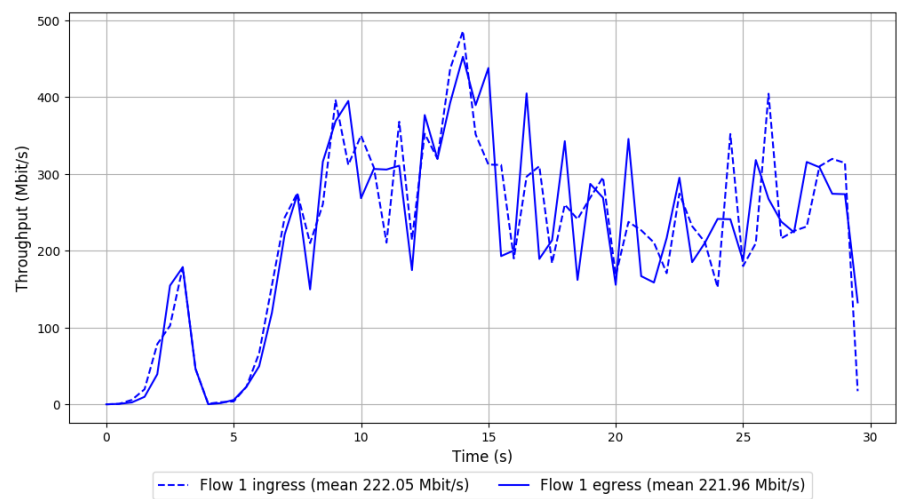
-- Flow 1:

Average throughput: 221.96 Mbit/s

95th percentile per-packet one-way delay: 172.754 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-18 11:31:56

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

Below is generated by plot.py at 2017-09-18 13:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.48 Mbit/s

95th percentile per-packet one-way delay: 208.767 ms

Loss rate: 2.26%

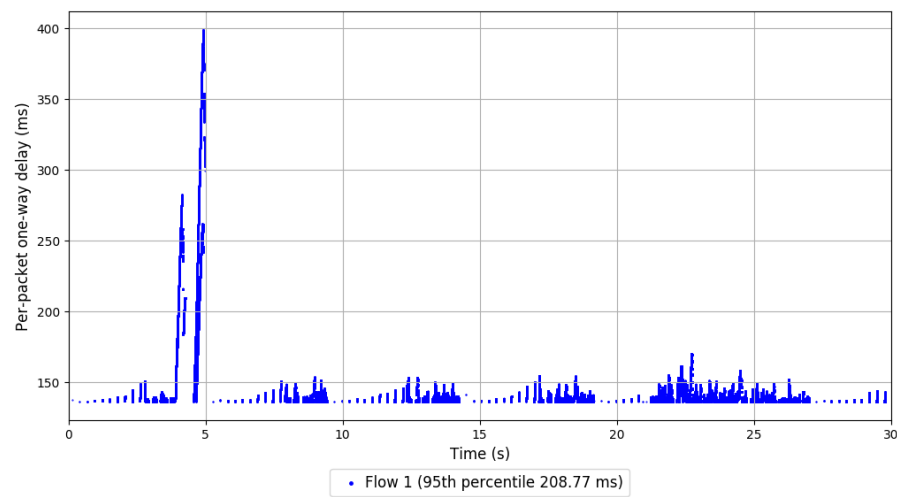
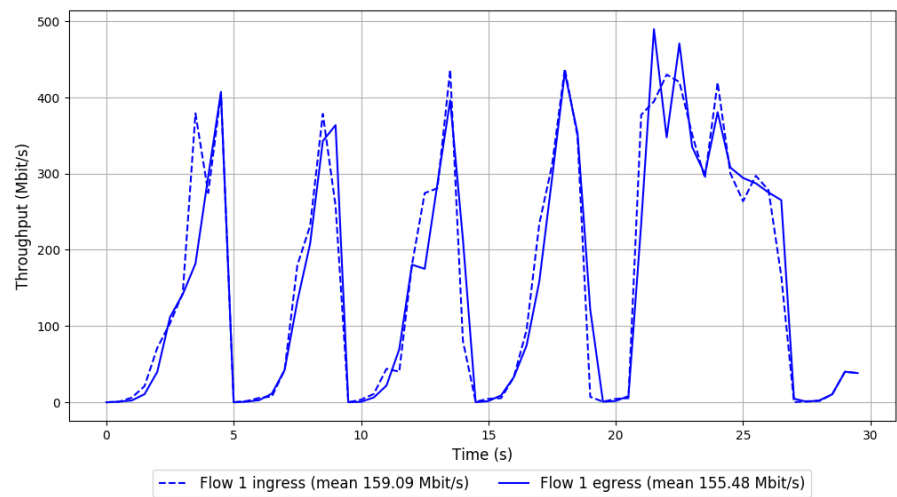
-- Flow 1:

Average throughput: 155.48 Mbit/s

95th percentile per-packet one-way delay: 208.767 ms

Loss rate: 2.26%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-18 11:43:38

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

Below is generated by plot.py at 2017-09-18 13:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.52 Mbit/s

95th percentile per-packet one-way delay: 149.239 ms

Loss rate: 0.00%

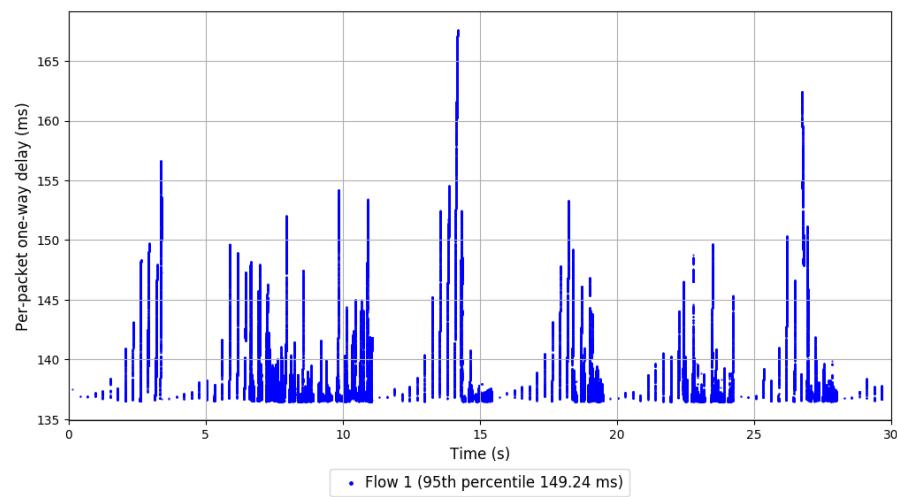
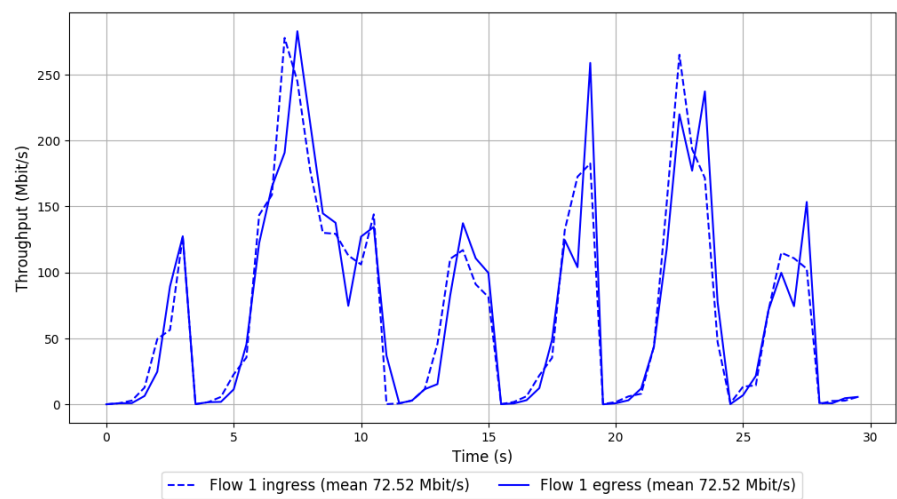
-- Flow 1:

Average throughput: 72.52 Mbit/s

95th percentile per-packet one-way delay: 149.239 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

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

End at: 2017-09-18 11:56:43

Below is generated by plot.py at 2017-09-18 13:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.80 Mbit/s

95th percentile per-packet one-way delay: 194.897 ms

Loss rate: 0.04%

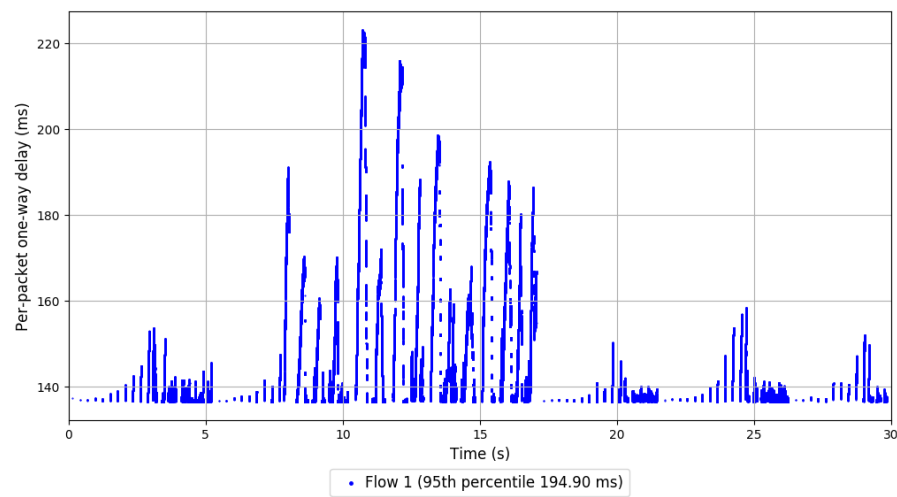
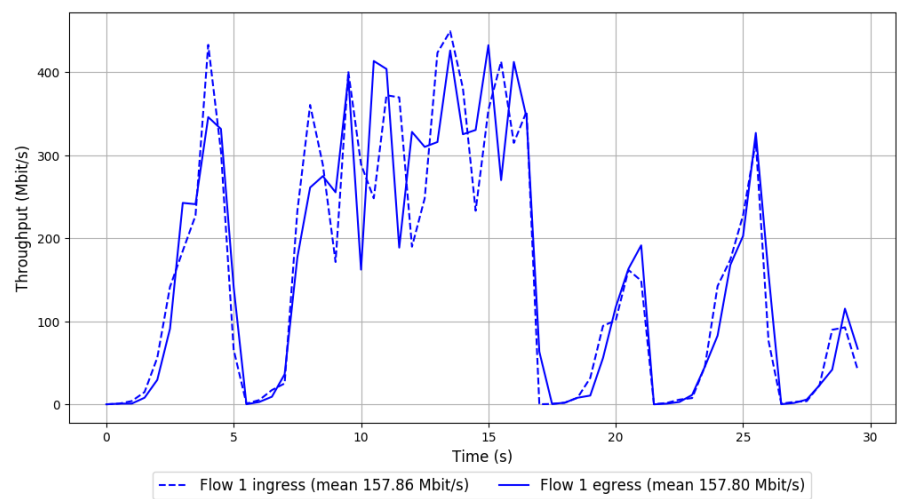
-- Flow 1:

Average throughput: 157.80 Mbit/s

95th percentile per-packet one-way delay: 194.897 ms

Loss rate: 0.04%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-18 12:08:55

End at: 2017-09-18 12:09:25

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.94 Mbit/s

95th percentile per-packet one-way delay: 171.281 ms

Loss rate: 0.01%

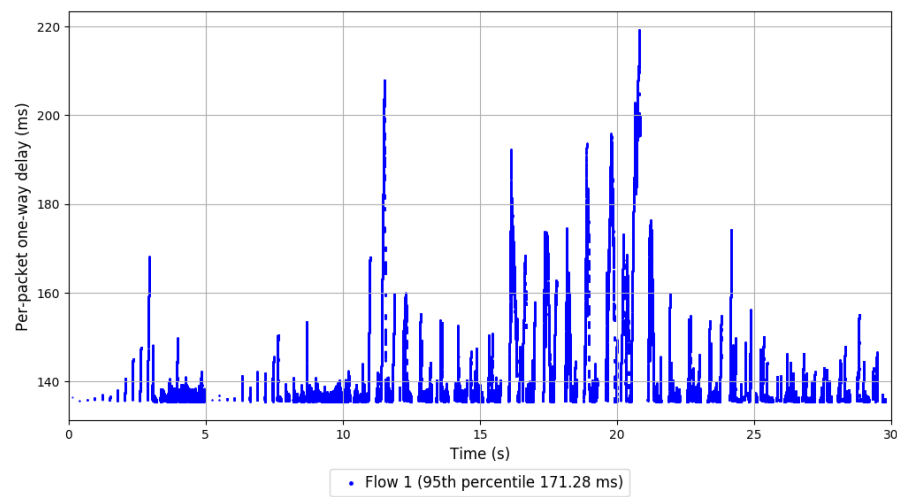
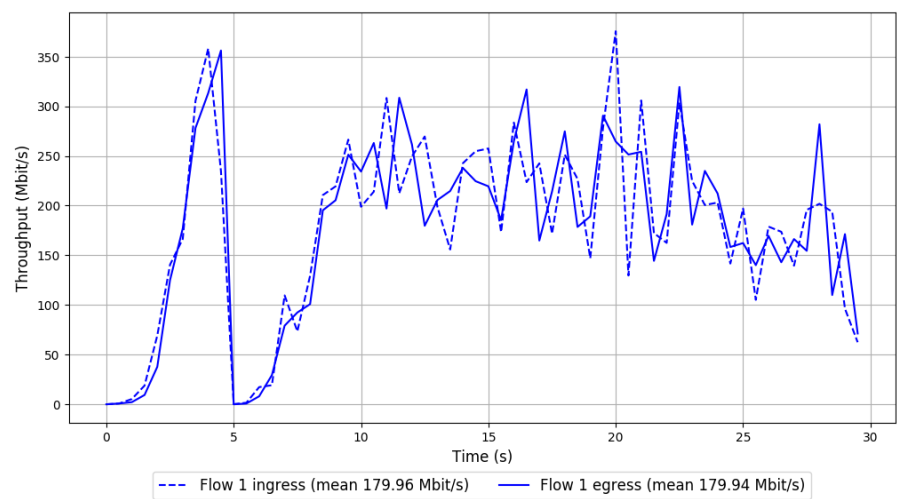
-- Flow 1:

Average throughput: 179.94 Mbit/s

95th percentile per-packet one-way delay: 171.281 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 12:20:47

End at: 2017-09-18 12:21:17

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 203.882 ms

Loss rate: 1.75%

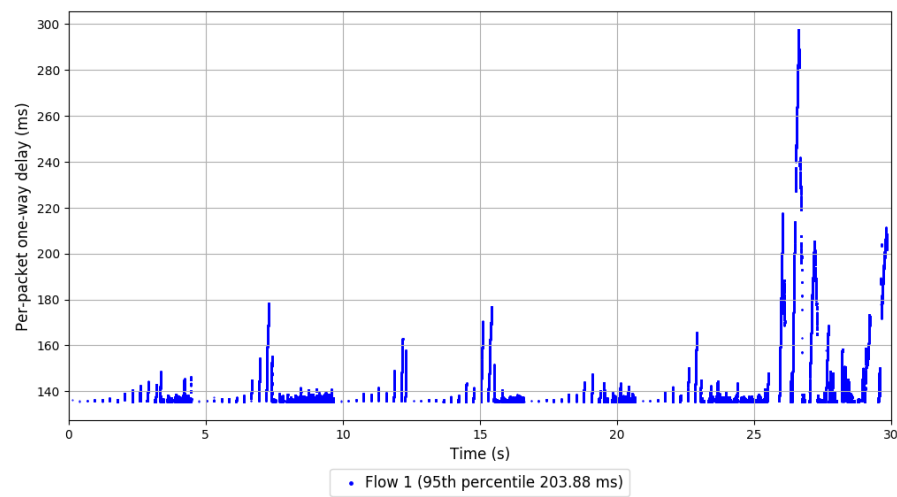
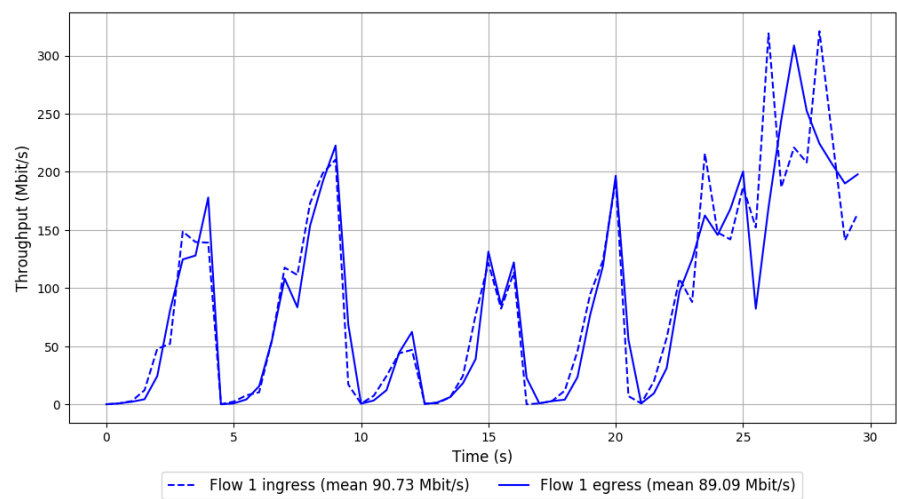
-- Flow 1:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 203.882 ms

Loss rate: 1.75%

Run 10: Report of Verus — Data Link

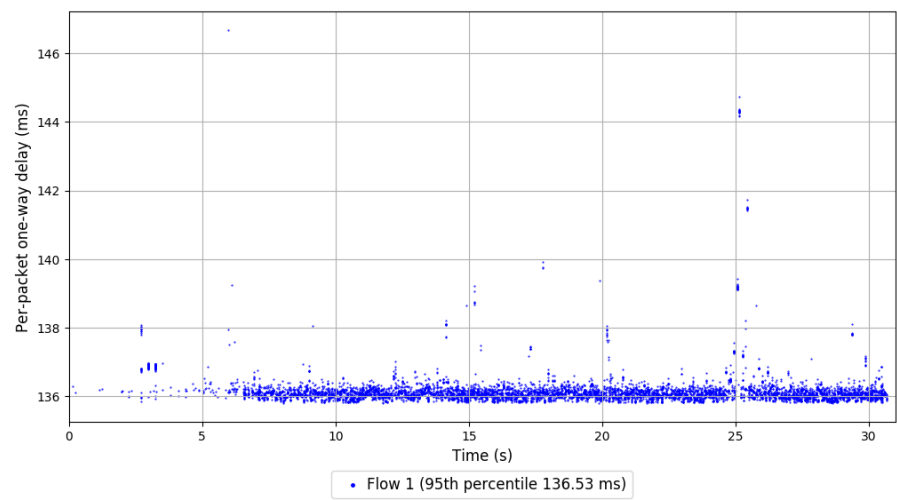
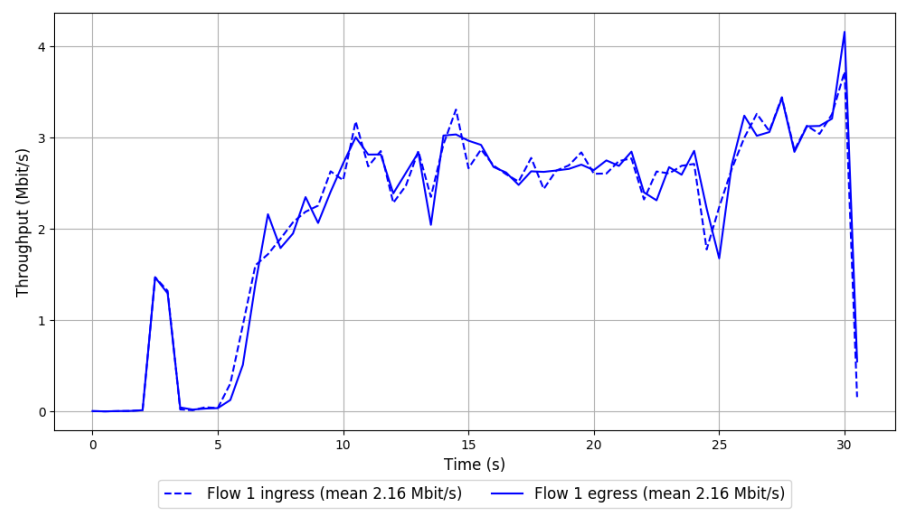


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-18 10:25:37
End at: 2017-09-18 10:26:07

# Below is generated by plot.py at 2017-09-18 13:35:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 136.526 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 136.526 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-18 10:37:33

End at: 2017-09-18 10:38:03

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 137.075 ms

Loss rate: 0.00%

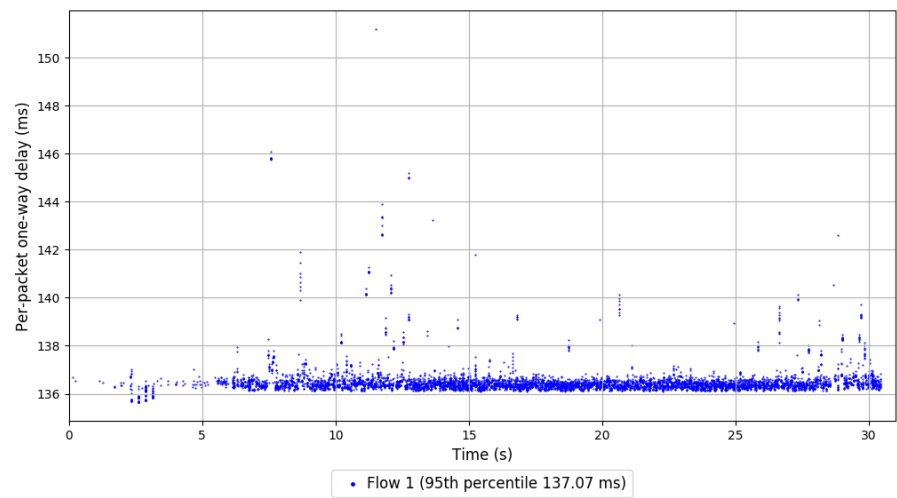
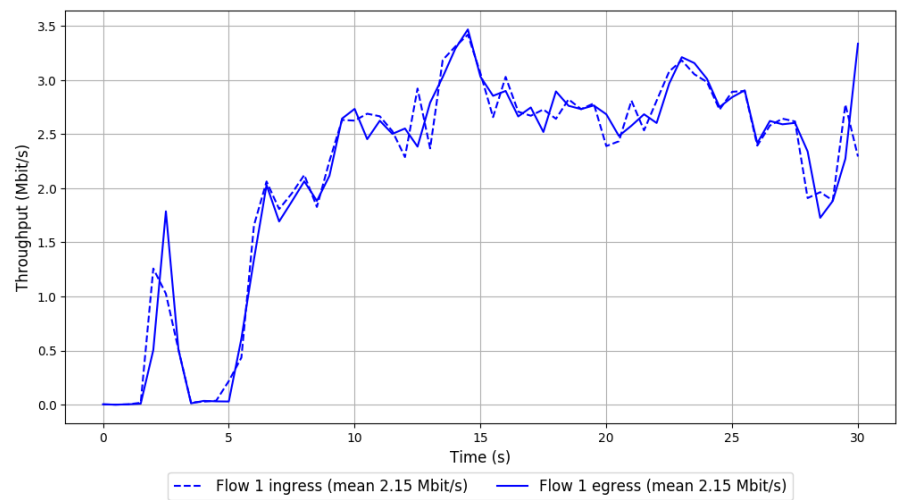
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 137.075 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-18 10:50:15

End at: 2017-09-18 10:50:45

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 137.832 ms

Loss rate: 0.00%

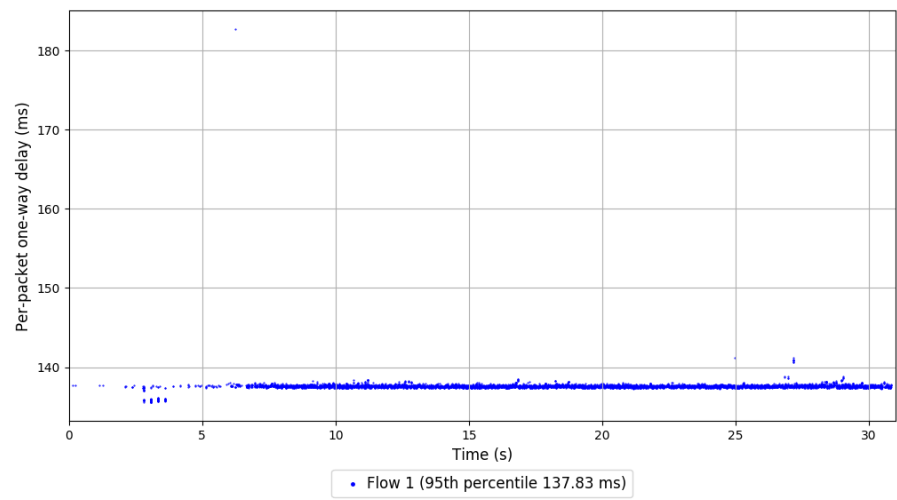
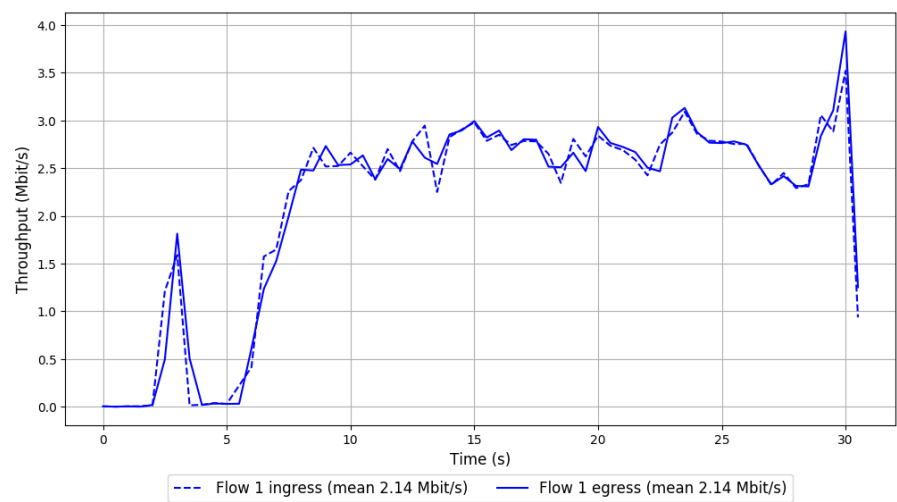
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 137.832 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

End at: 2017-09-18 11:02:39

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

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

Loss rate: 0.00%

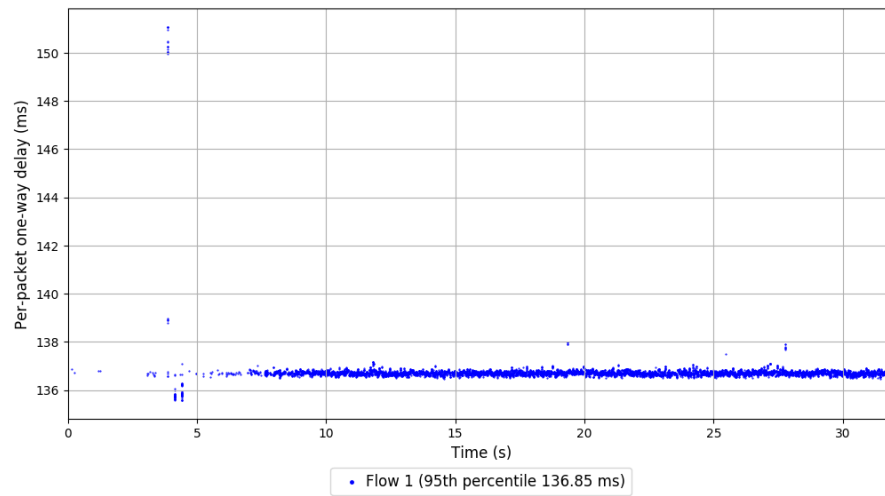
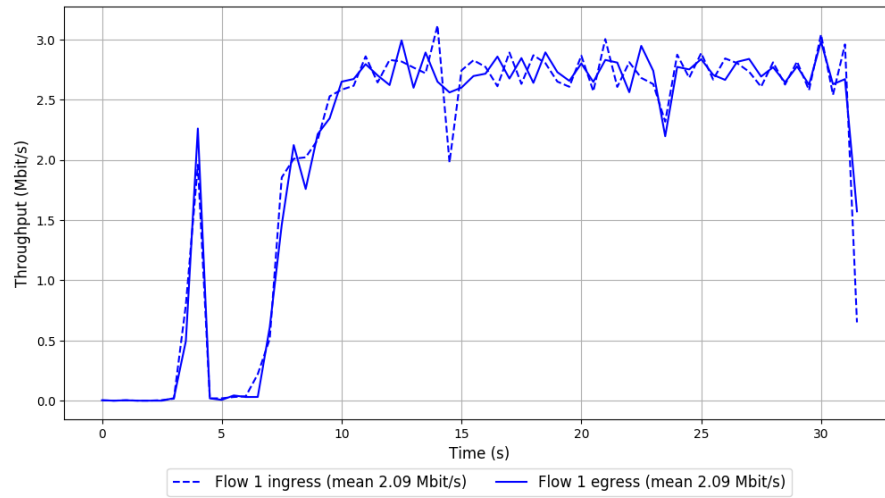
-- Flow 1:

Average throughput: 2.09 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-18 11:14:44

End at: 2017-09-18 11:15:14

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.221 ms

Loss rate: 0.00%

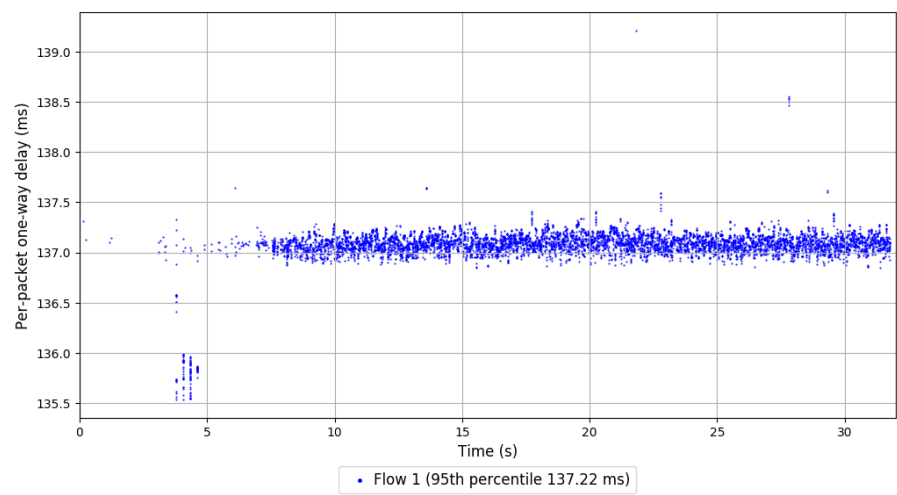
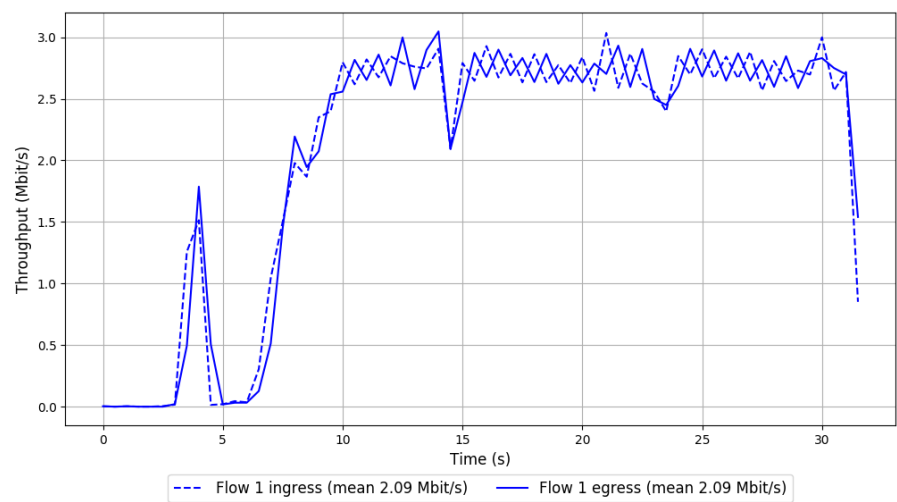
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.221 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-18 11:26:40

End at: 2017-09-18 11:27:10

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.687 ms

Loss rate: 0.00%

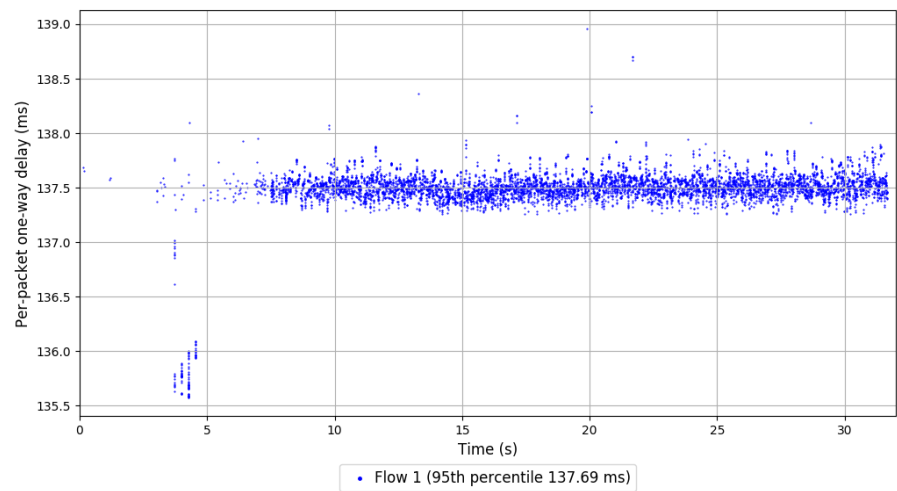
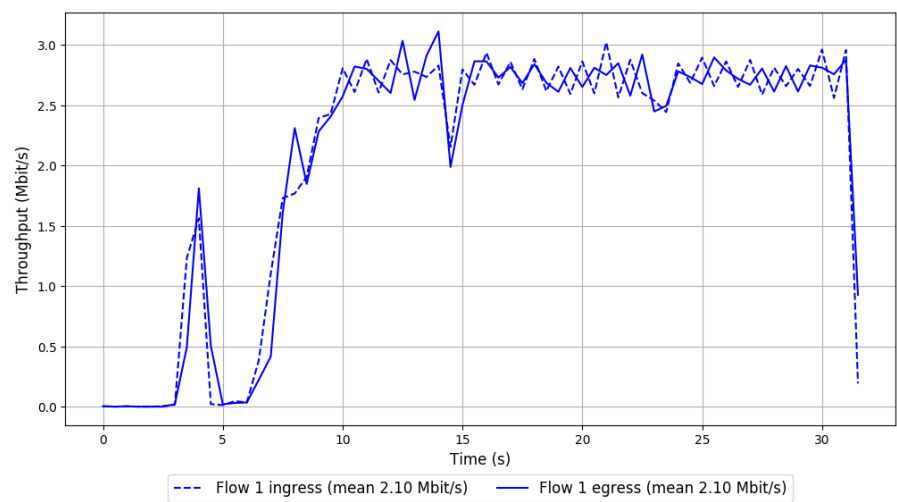
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.687 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-18 11:38:29

End at: 2017-09-18 11:38:59

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.175 ms

Loss rate: 0.00%

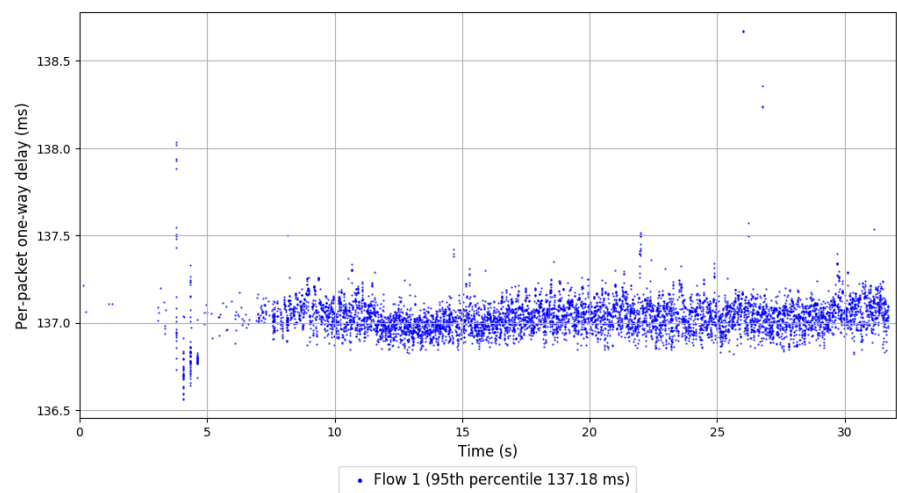
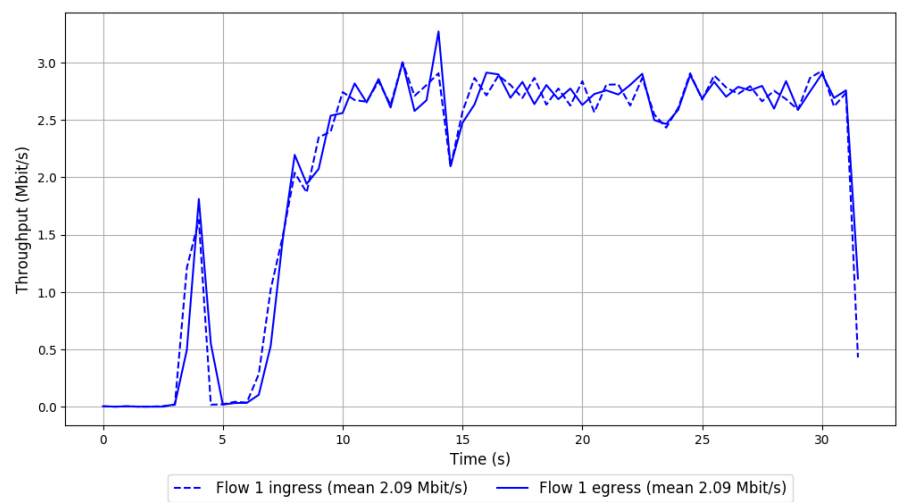
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.175 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2017-09-18 11:51:26

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.072 ms

Loss rate: 0.00%

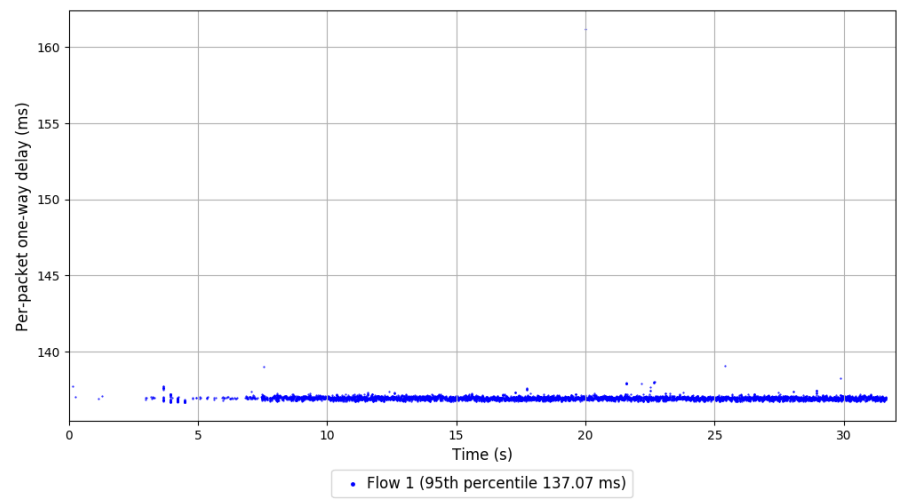
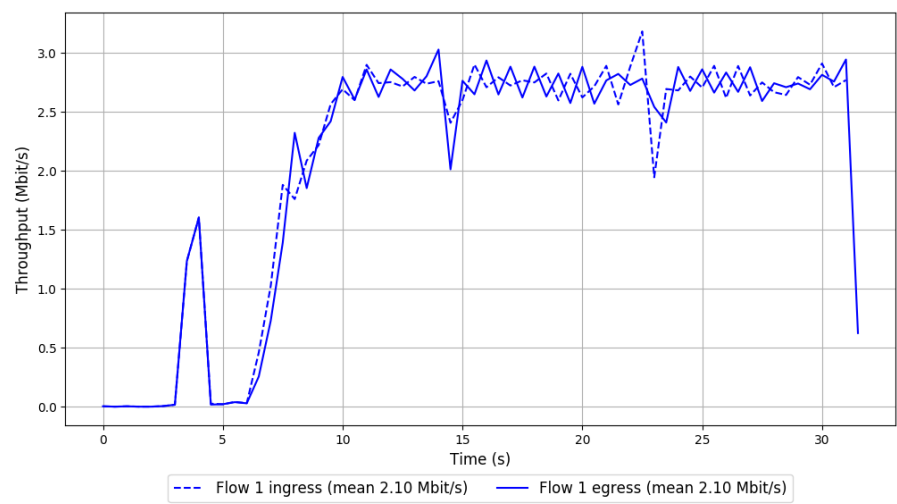
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.072 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-18 12:03:38

End at: 2017-09-18 12:04:08

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 0.00%

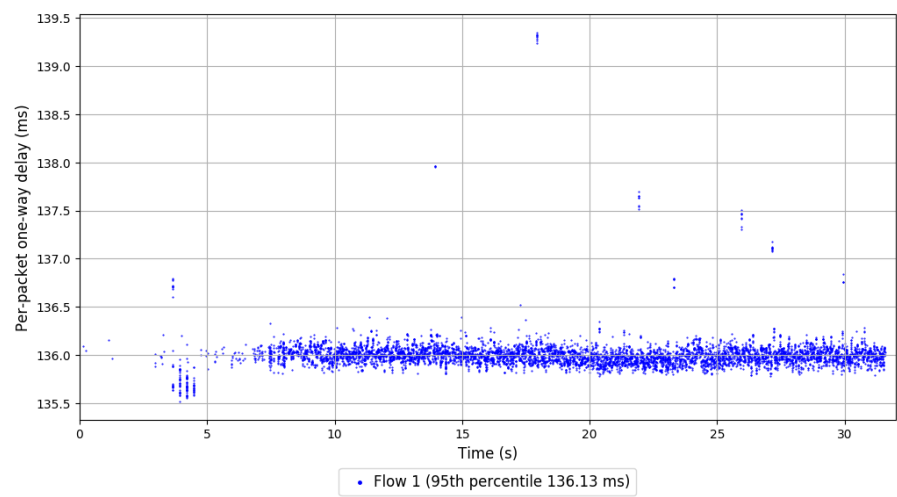
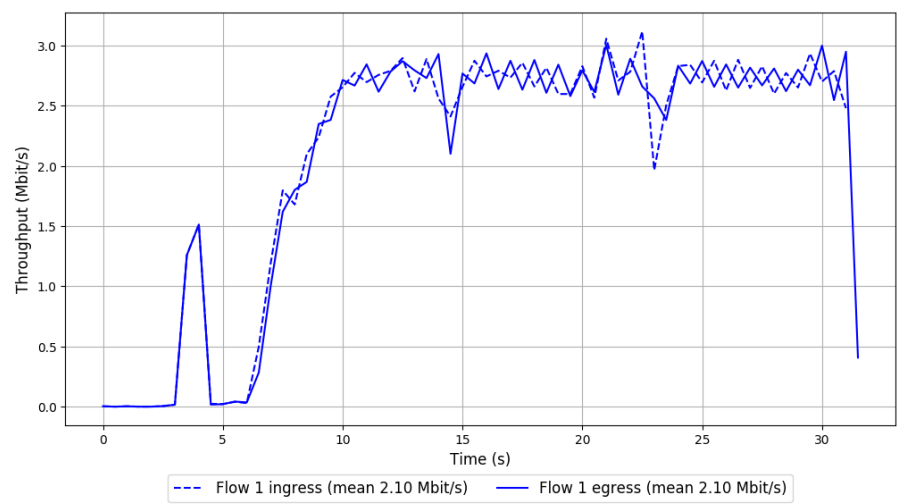
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.134 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-18 12:15:32

End at: 2017-09-18 12:16:02

Below is generated by plot.py at 2017-09-18 13:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.159 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.159 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

