

Pantheon Report

Generated at 2017-12-20 13:06:22 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

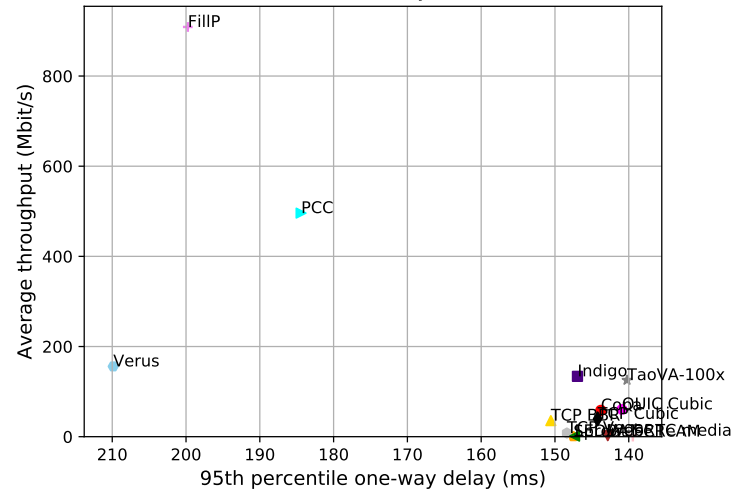
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

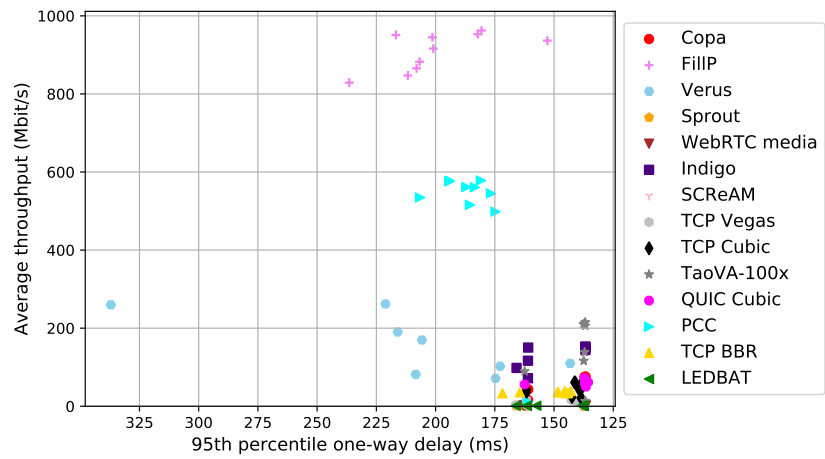
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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	9	35.67	150.56	1.45
TCP Cubic	10	39.47	144.22	0.72
LEDBAT	10	1.24	147.34	0.12
PCC	10	495.97	184.40	1.38
QUIC Cubic	6	60.68	140.93	0.00
SCReAM	10	0.21	139.44	0.00
WebRTC media	9	2.13	142.85	0.00
Sprout	10	0.36	147.50	0.00
TaoVA-100x	8	125.44	140.24	0.06
TCP Vegas	10	8.14	148.38	1.09
Verus	8	155.87	209.87	2.13
Copa	7	58.35	143.78	0.05
FillP	10	908.84	199.76	1.76
Indigo	10	133.86	146.95	0.15

Run 1: Statistics of TCP BBR

Start at: 2017-12-20 09:25:07

End at: 2017-12-20 09:25:37

Below is generated by plot.py at 2017-12-20 12:22:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.07 Mbit/s

95th percentile per-packet one-way delay: 144.099 ms

Loss rate: 2.54%

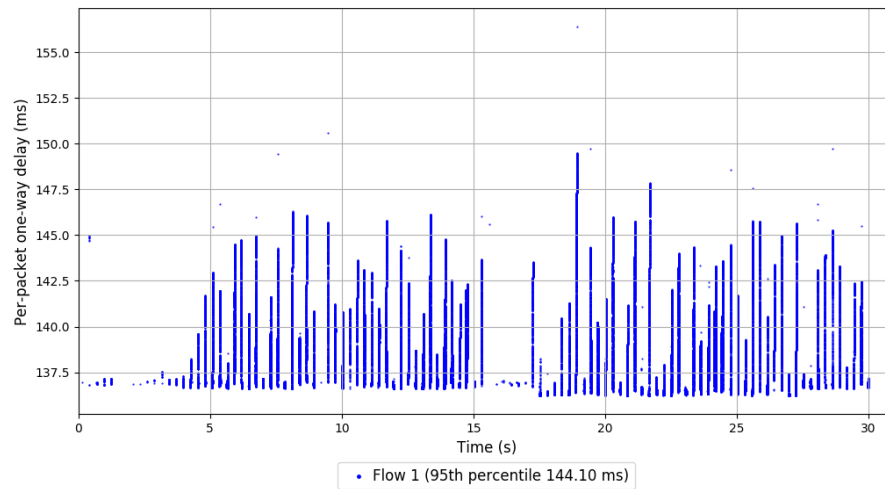
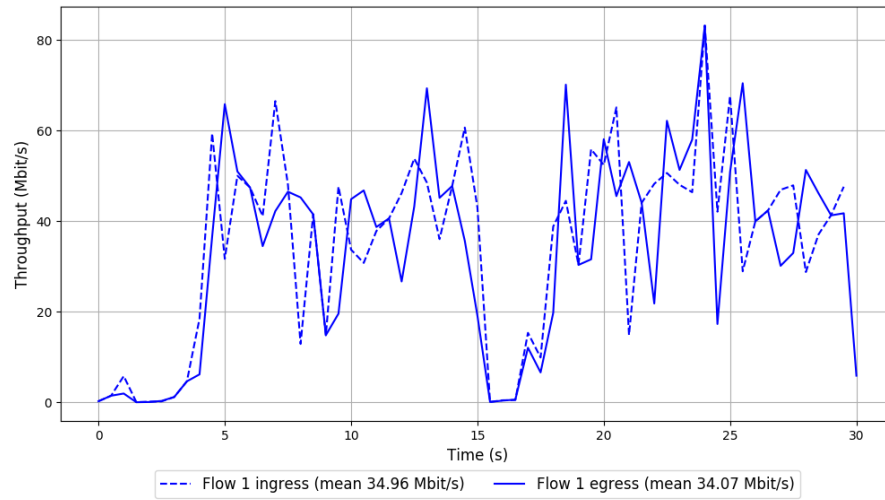
-- Flow 1:

Average throughput: 34.07 Mbit/s

95th percentile per-packet one-way delay: 144.099 ms

Loss rate: 2.54%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-20 09:38:07

End at: 2017-12-20 09:38:37

Below is generated by plot.py at 2017-12-20 12:22:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 148.114 ms

Loss rate: 1.67%

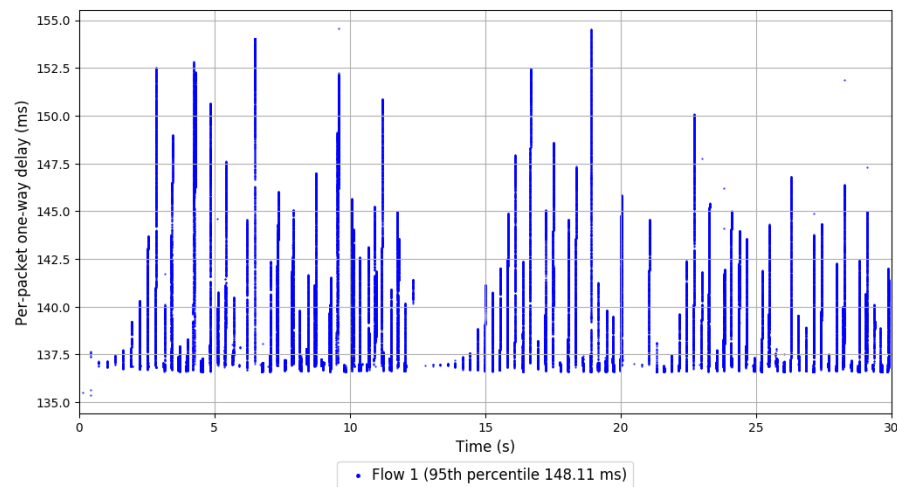
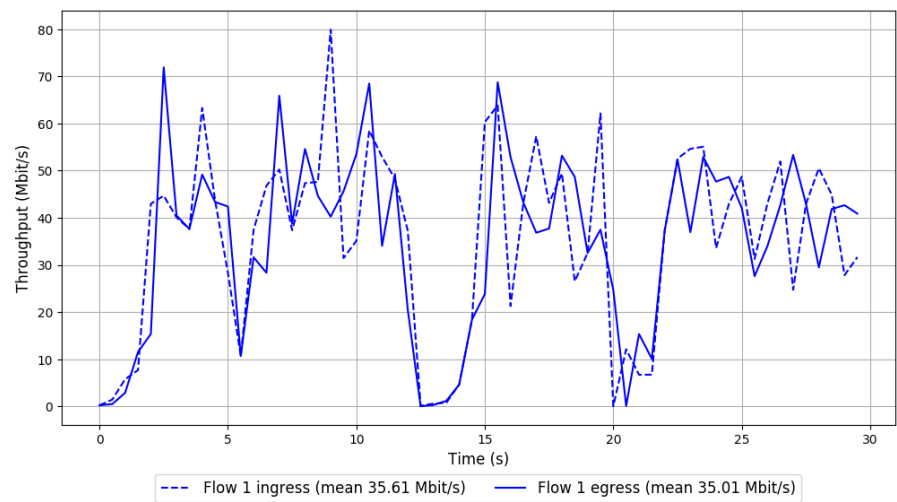
-- Flow 1:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 148.114 ms

Loss rate: 1.67%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-20 09:50:52

End at: 2017-12-20 09:51:22

Below is generated by plot.py at 2017-12-20 12:23:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.40 Mbit/s

95th percentile per-packet one-way delay: 148.491 ms

Loss rate: 1.61%

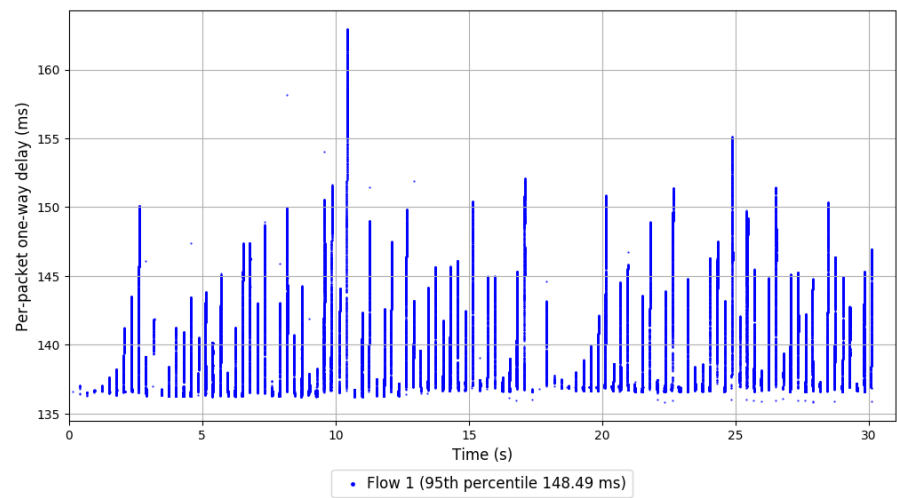
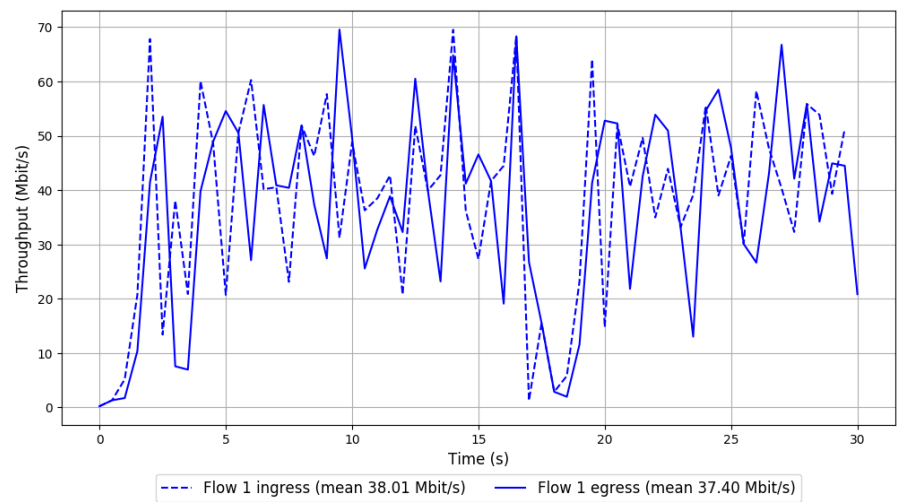
-- Flow 1:

Average throughput: 37.40 Mbit/s

95th percentile per-packet one-way delay: 148.491 ms

Loss rate: 1.61%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-20 10:03:18

End at: 2017-12-20 10:03:48

Below is generated by plot.py at 2017-12-20 12:23:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.18 Mbit/s

95th percentile per-packet one-way delay: 171.775 ms

Loss rate: 0.93%

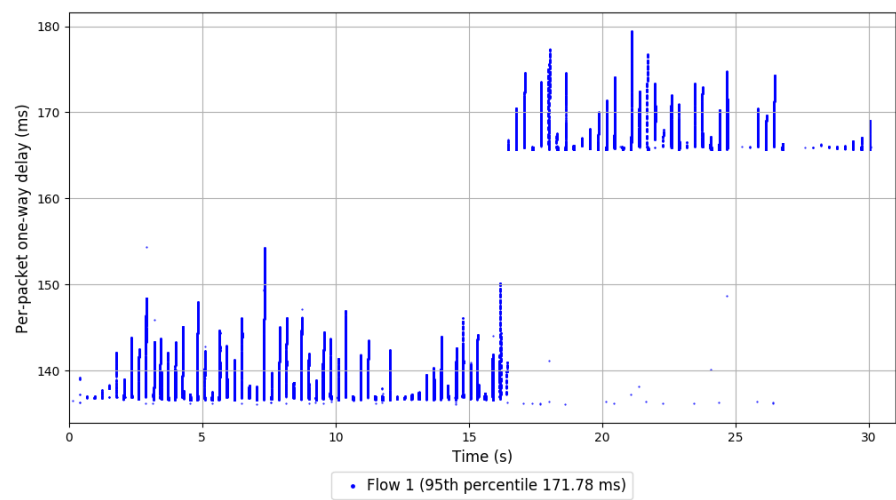
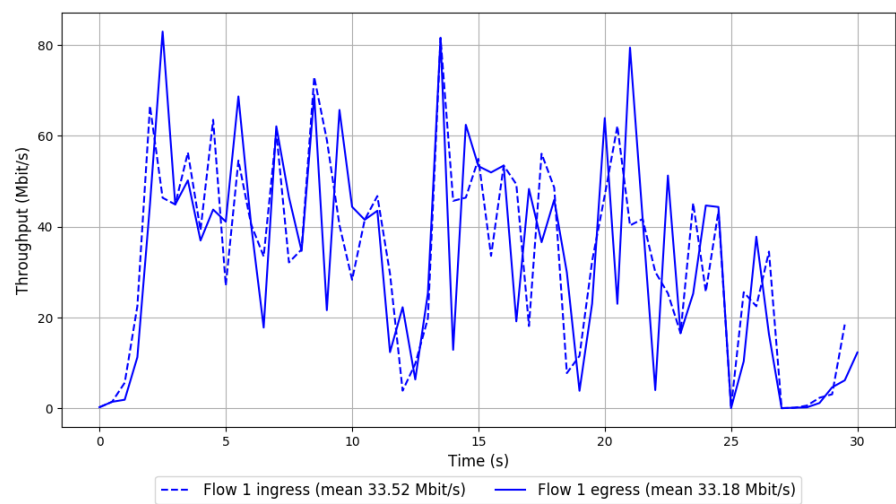
-- Flow 1:

Average throughput: 33.18 Mbit/s

95th percentile per-packet one-way delay: 171.775 ms

Loss rate: 0.93%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-20 10:15:45

End at: 2017-12-20 10:16:15

Run 5: Report of TCP BBR — Data Link

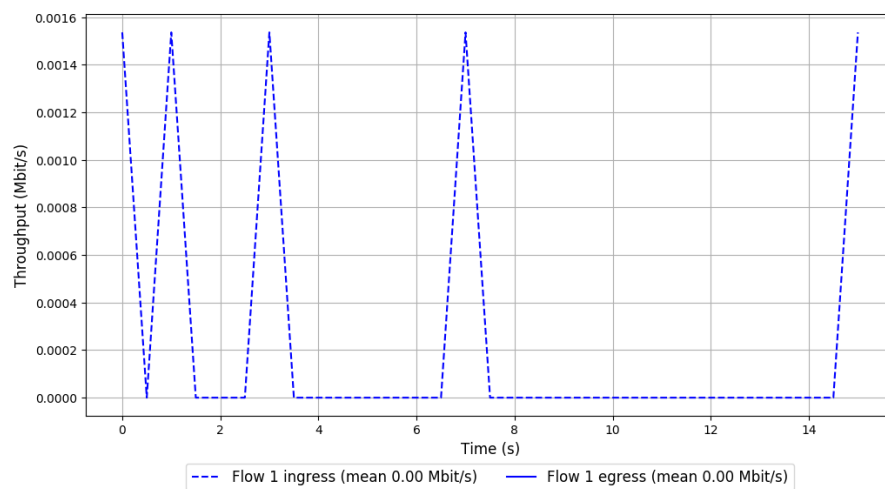


Figure is missing

Run 6: Statistics of TCP BBR

Start at: 2017-12-20 10:28:51

End at: 2017-12-20 10:29:21

Below is generated by plot.py at 2017-12-20 12:23:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 145.495 ms

Loss rate: 1.62%

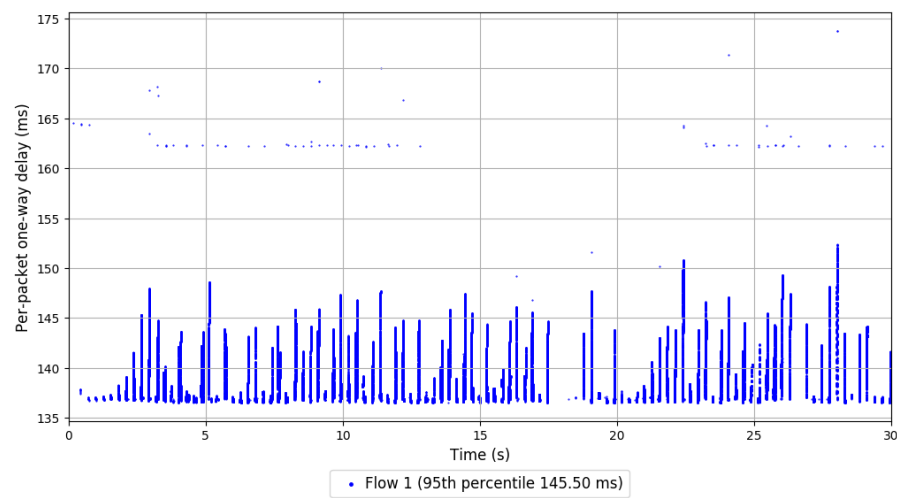
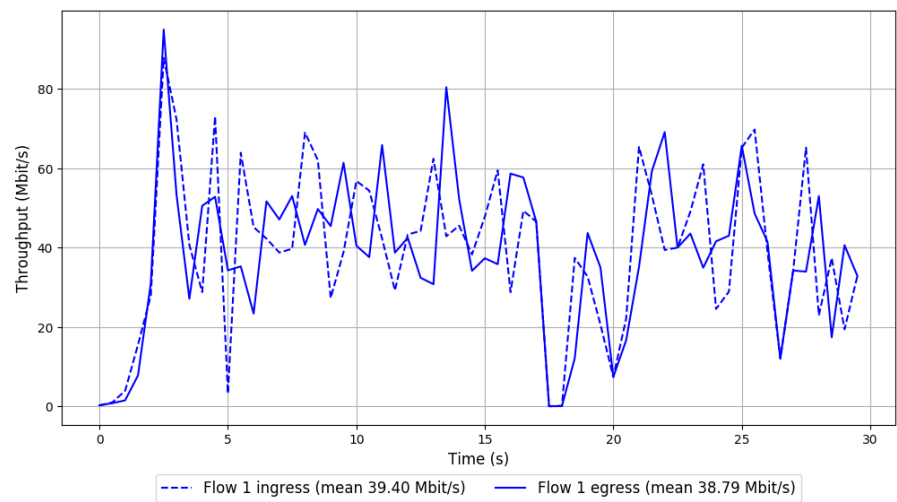
-- Flow 1:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 145.495 ms

Loss rate: 1.62%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-20 10:42:00

End at: 2017-12-20 10:42:30

Below is generated by plot.py at 2017-12-20 12:23:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 145.226 ms

Loss rate: 1.88%

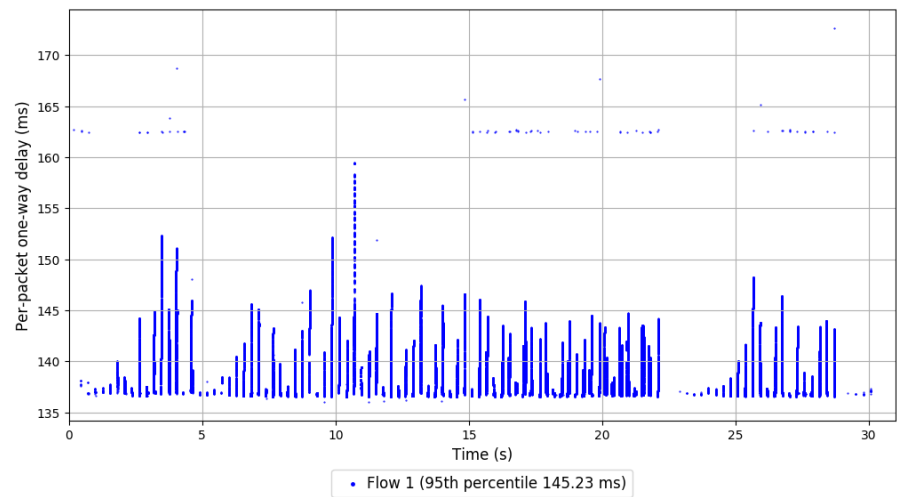
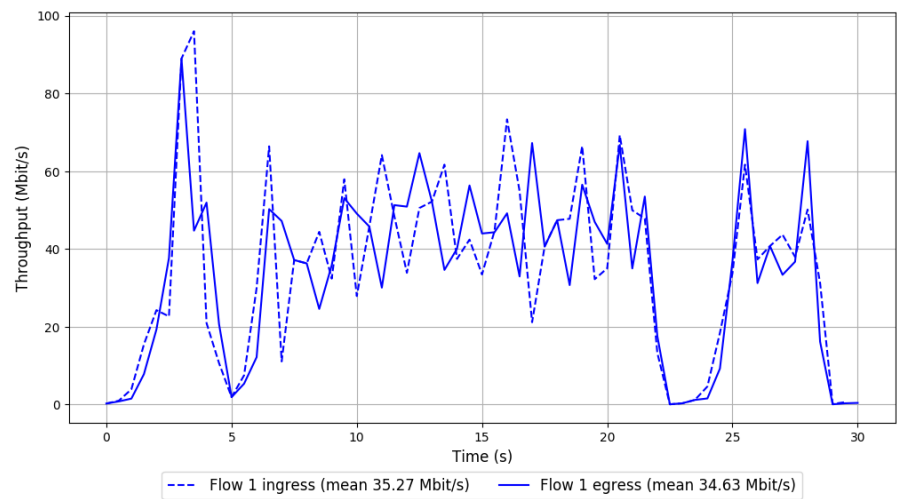
-- Flow 1:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 145.226 ms

Loss rate: 1.88%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-20 10:54:52

End at: 2017-12-20 10:55:22

Below is generated by plot.py at 2017-12-20 12:23:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.29 Mbit/s

95th percentile per-packet one-way delay: 144.460 ms

Loss rate: 0.57%

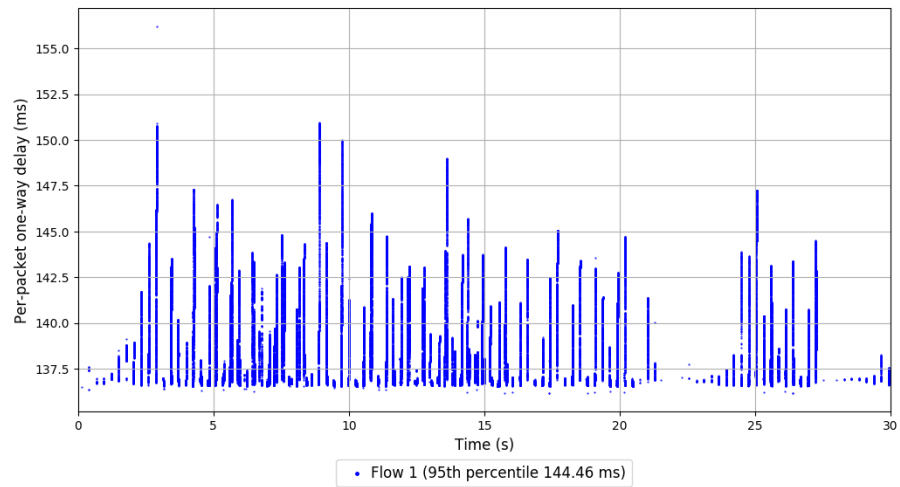
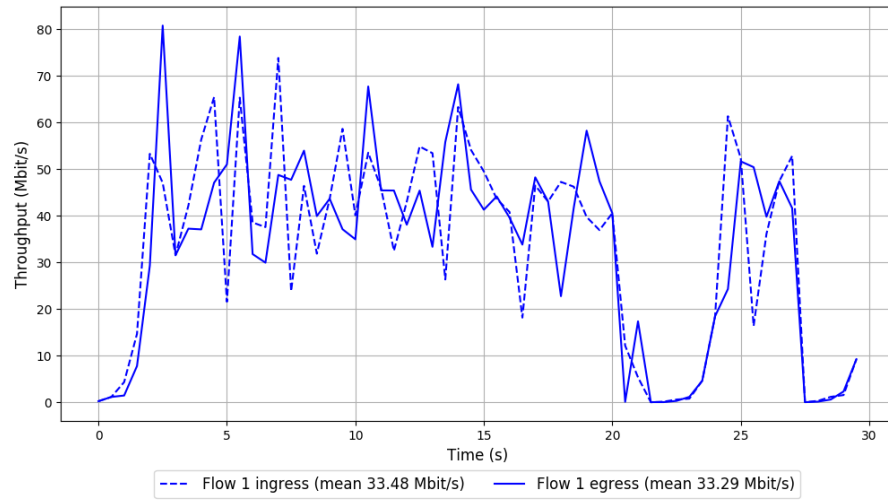
-- Flow 1:

Average throughput: 33.29 Mbit/s

95th percentile per-packet one-way delay: 144.460 ms

Loss rate: 0.57%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-20 11:07:04

End at: 2017-12-20 11:07:34

Below is generated by plot.py at 2017-12-20 12:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: 142.955 ms

Loss rate: 0.02%

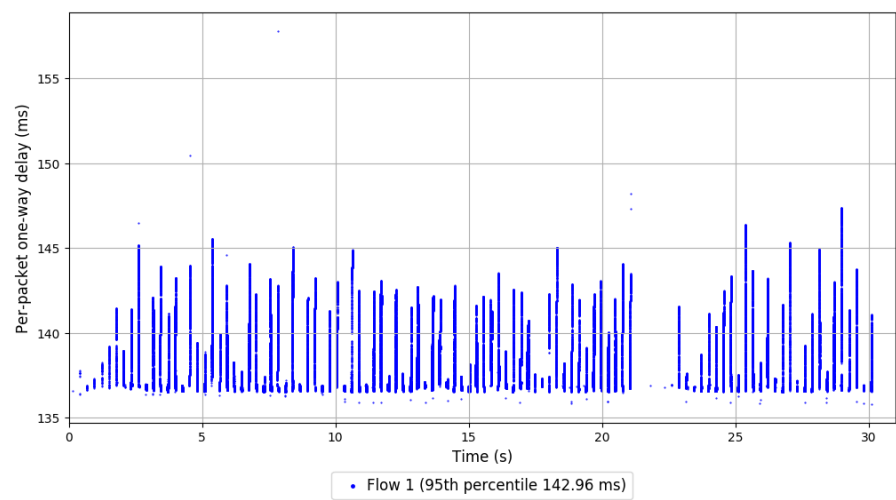
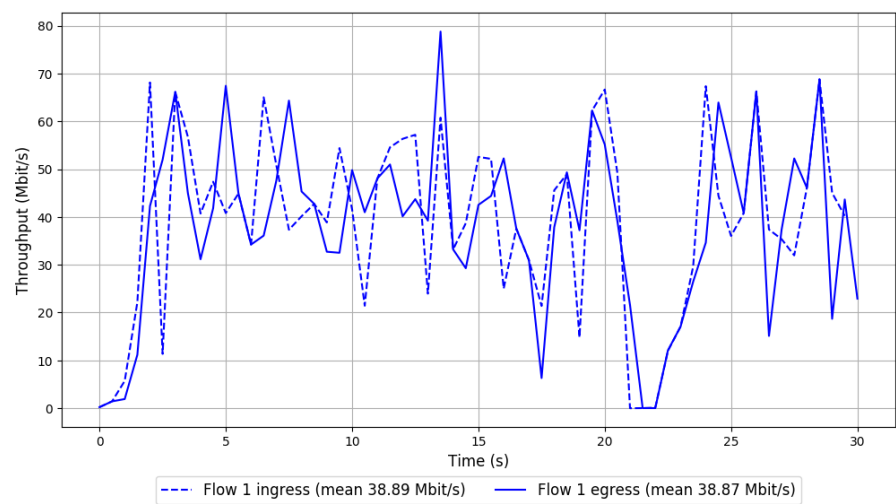
-- Flow 1:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: 142.955 ms

Loss rate: 0.02%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-20 11:19:46

End at: 2017-12-20 11:20:16

Below is generated by plot.py at 2017-12-20 12:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 164.421 ms

Loss rate: 2.22%

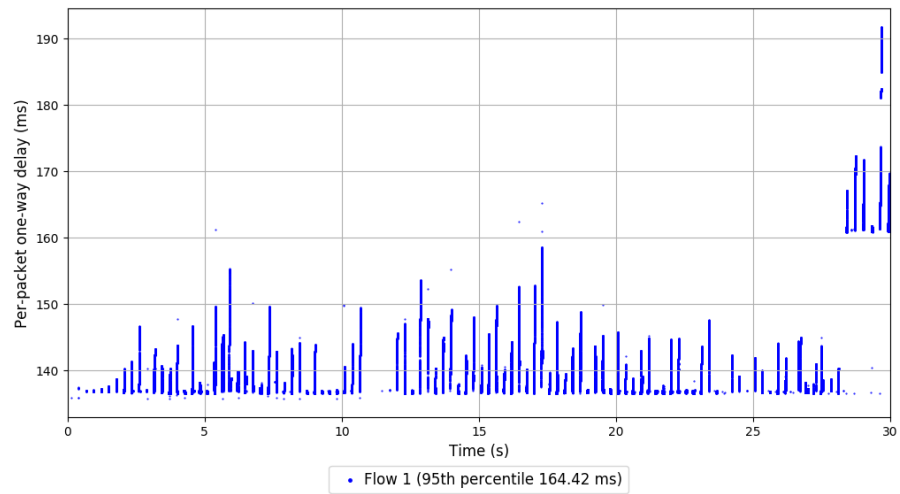
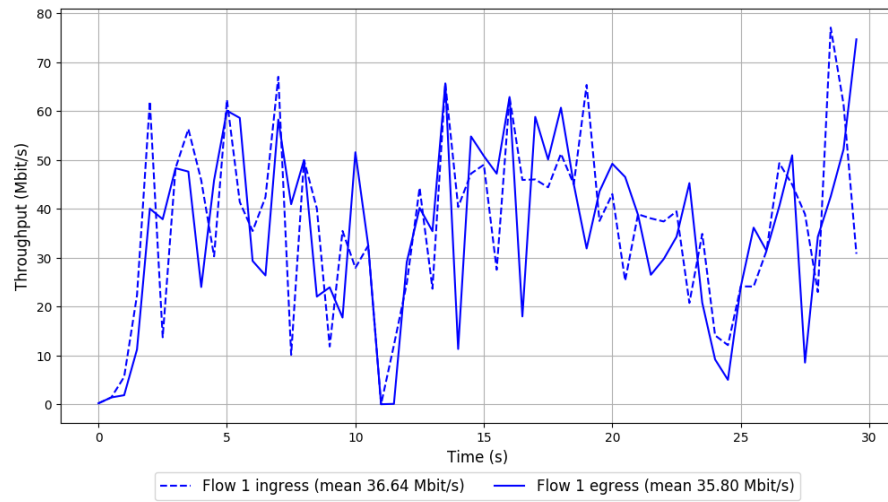
-- Flow 1:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 164.421 ms

Loss rate: 2.22%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-20 09:19:39

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

Below is generated by plot.py at 2017-12-20 12:24:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.25 Mbit/s

95th percentile per-packet one-way delay: 138.992 ms

Loss rate: 1.83%

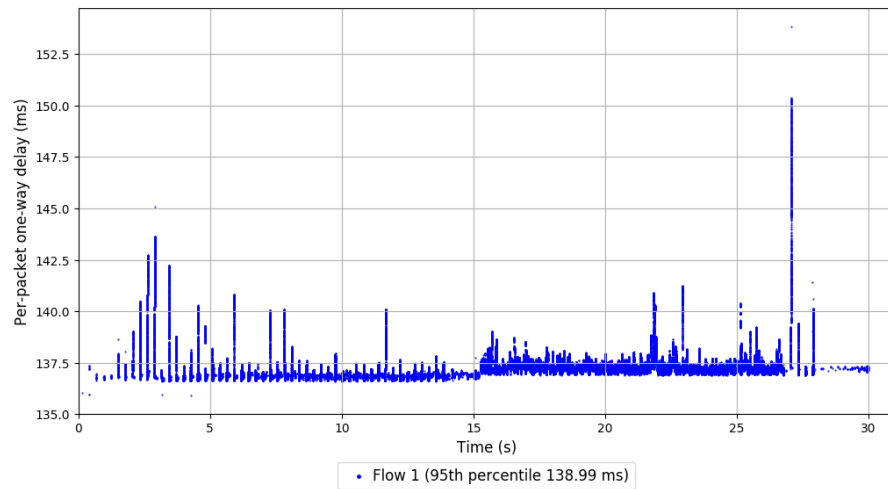
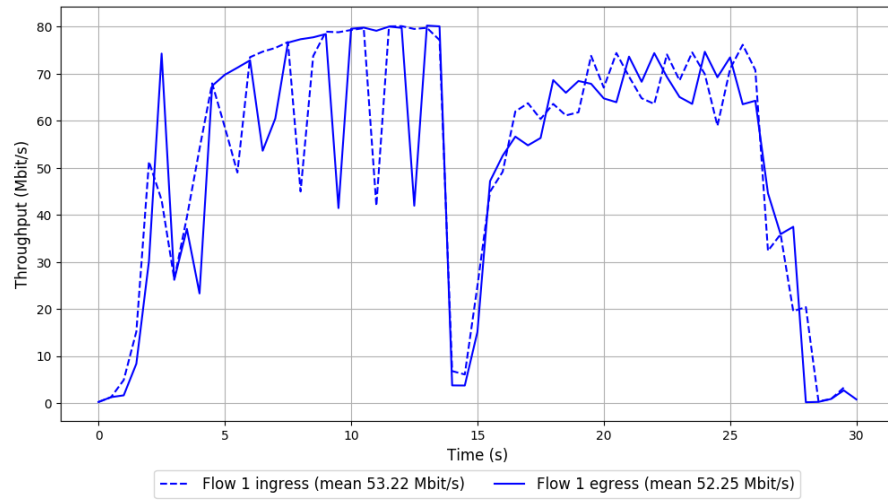
-- Flow 1:

Average throughput: 52.25 Mbit/s

95th percentile per-packet one-way delay: 138.992 ms

Loss rate: 1.83%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-20 09:32:05

End at: 2017-12-20 09:32:35

Below is generated by plot.py at 2017-12-20 12:24:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 139.044 ms

Loss rate: 1.18%

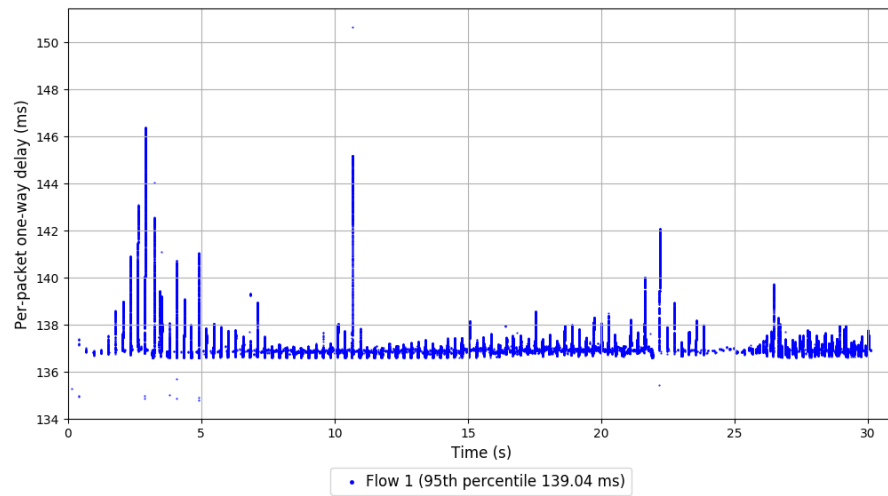
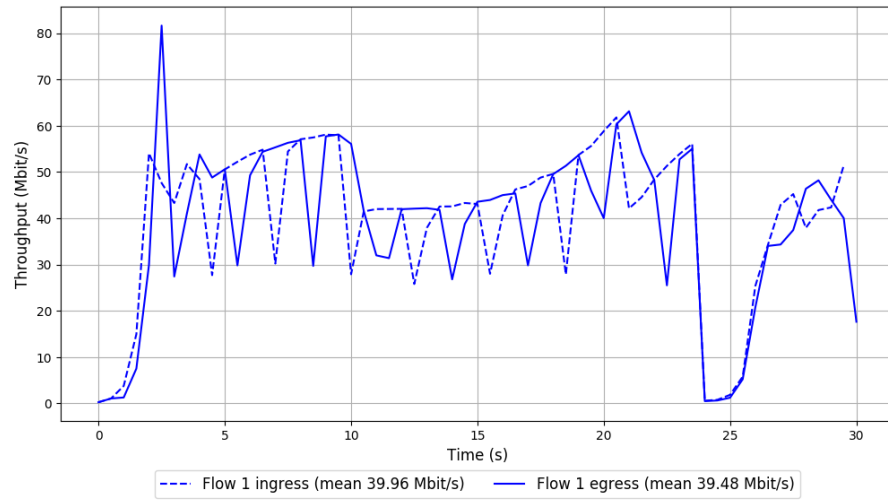
-- Flow 1:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 139.044 ms

Loss rate: 1.18%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-20 09:45:09

End at: 2017-12-20 09:45:39

Below is generated by plot.py at 2017-12-20 12:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.06 Mbit/s

95th percentile per-packet one-way delay: 141.342 ms

Loss rate: 0.01%

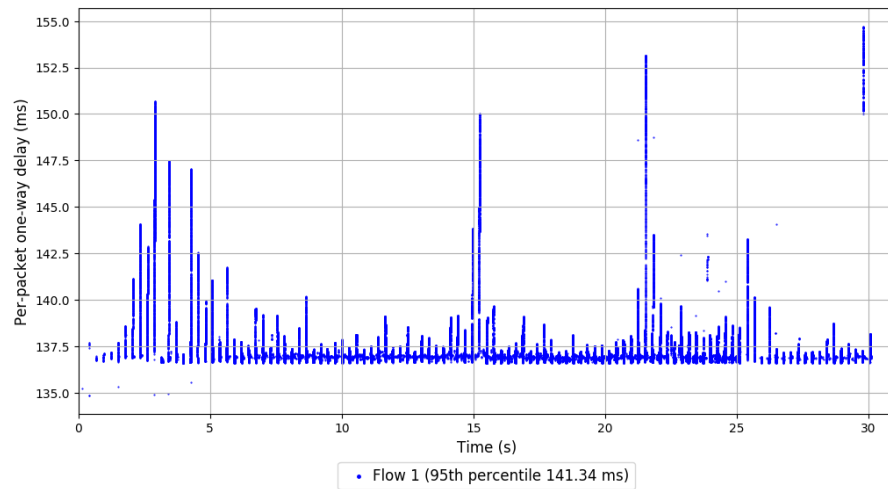
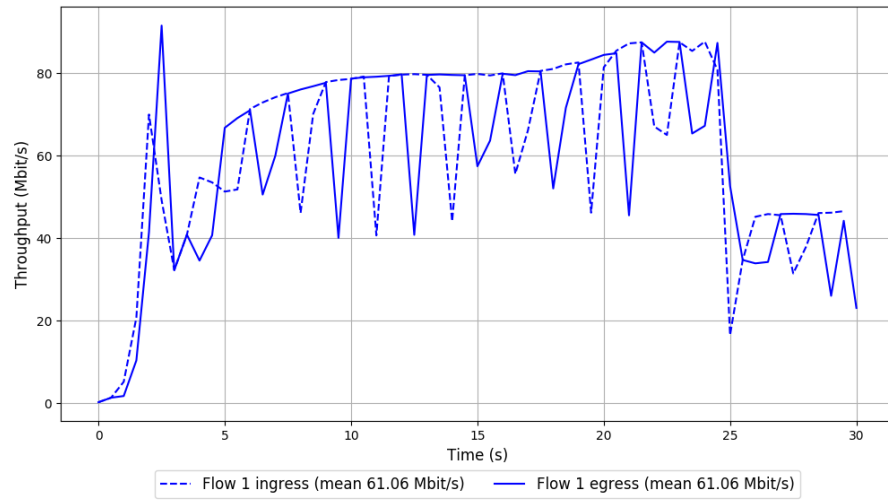
-- Flow 1:

Average throughput: 61.06 Mbit/s

95th percentile per-packet one-way delay: 141.342 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-20 09:57:45

End at: 2017-12-20 09:58:15

Below is generated by plot.py at 2017-12-20 12:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 139.260 ms

Loss rate: 0.02%

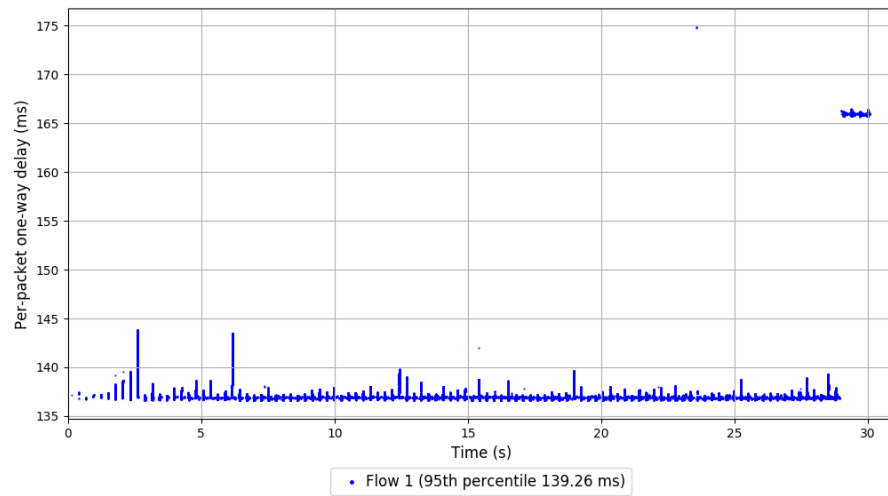
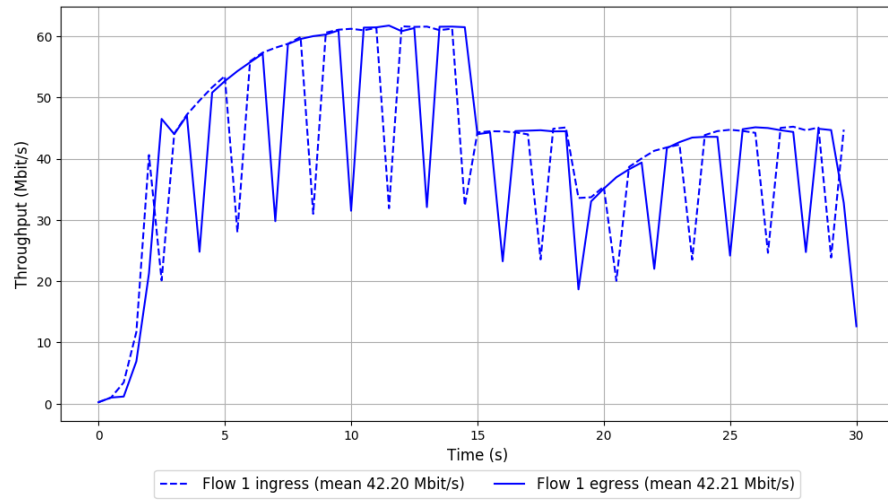
-- Flow 1:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 139.260 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-20 10:10:08

End at: 2017-12-20 10:10:38

Below is generated by plot.py at 2017-12-20 12:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.72 Mbit/s

95th percentile per-packet one-way delay: 138.671 ms

Loss rate: 0.01%

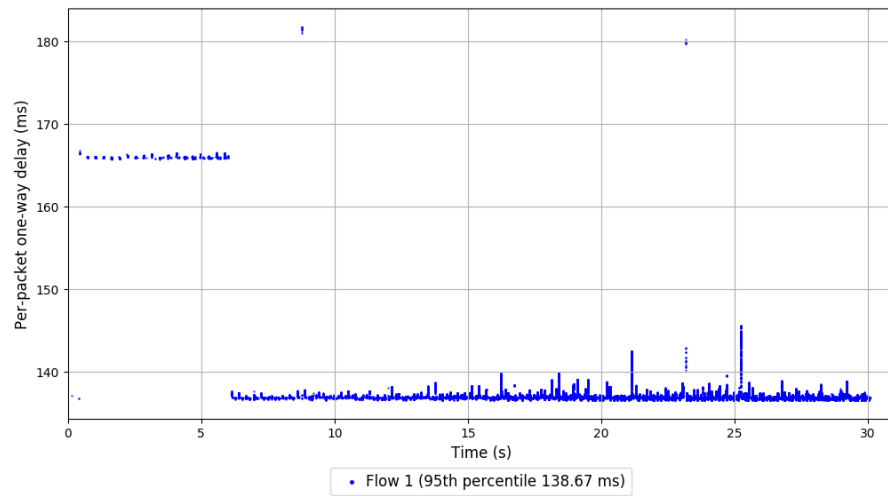
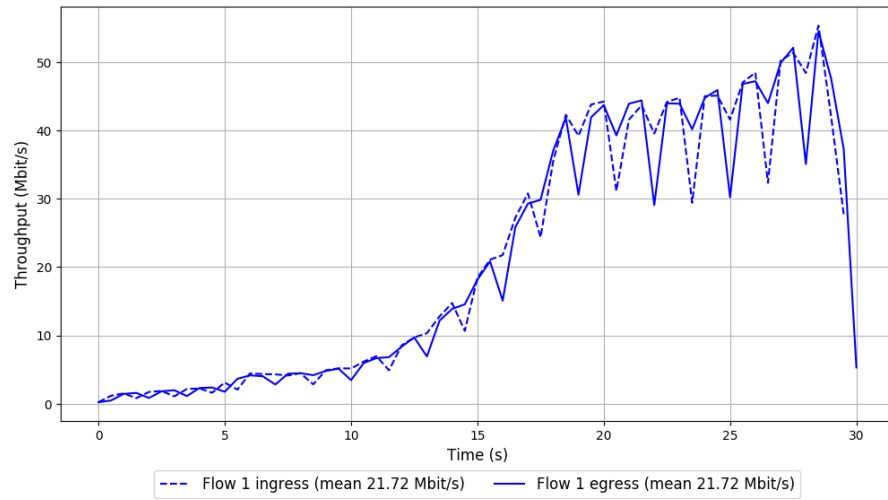
-- Flow 1:

Average throughput: 21.72 Mbit/s

95th percentile per-packet one-way delay: 138.671 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-20 10:22:53

End at: 2017-12-20 10:23:23

Below is generated by plot.py at 2017-12-20 12:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 142.422 ms

Loss rate: 2.68%

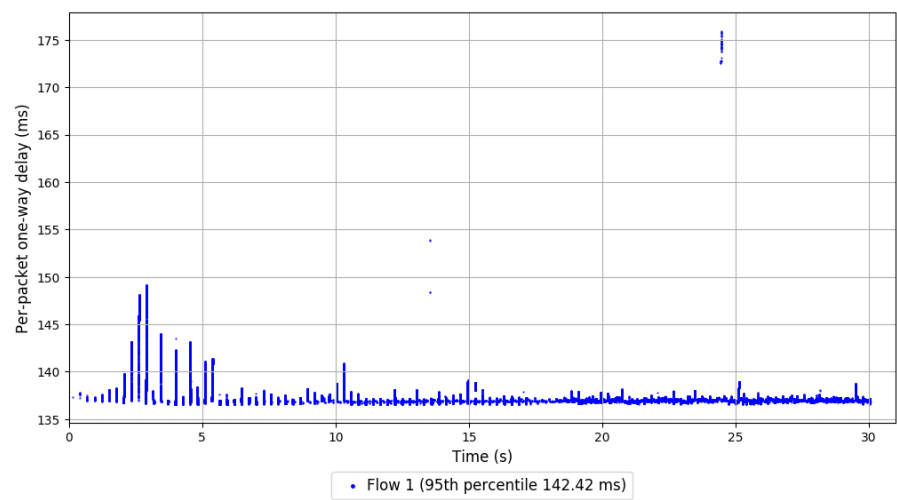
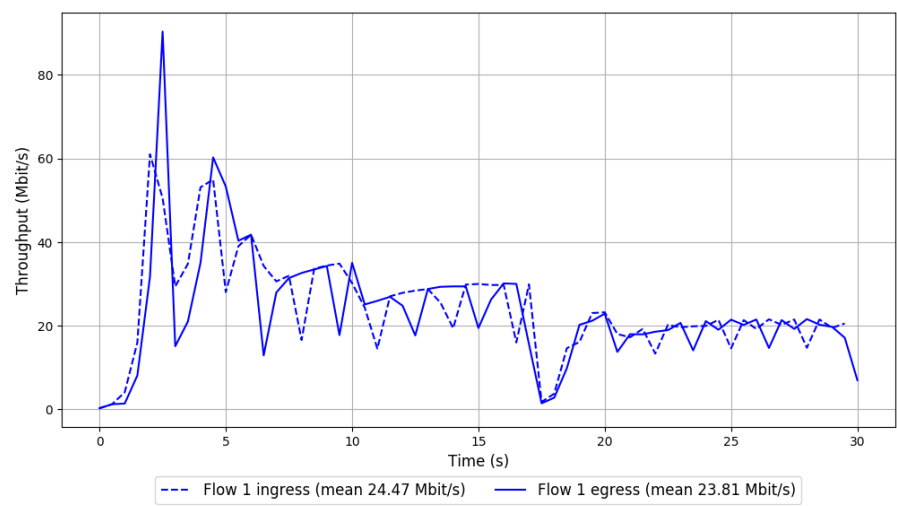
-- Flow 1:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 142.422 ms

Loss rate: 2.68%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-20 10:35:59

End at: 2017-12-20 10:36:29

Below is generated by plot.py at 2017-12-20 12:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 138.072 ms

Loss rate: 1.47%

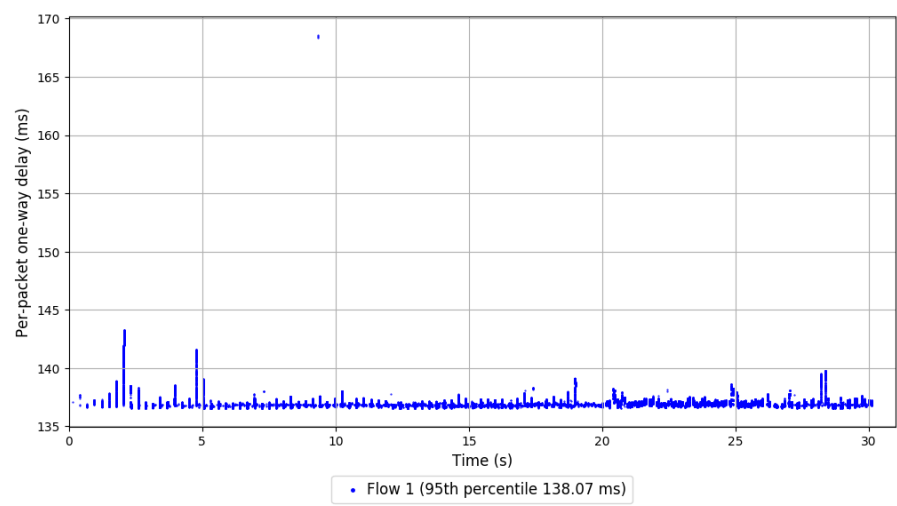
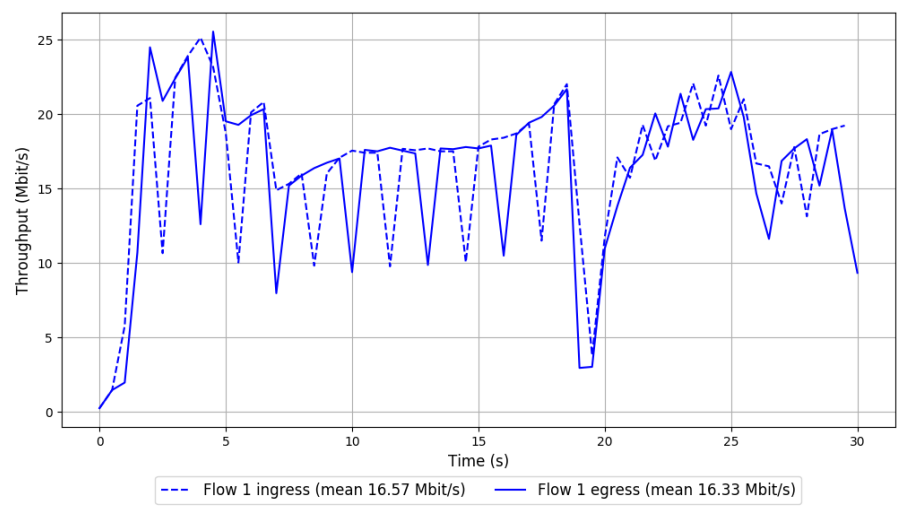
-- Flow 1:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 138.072 ms

Loss rate: 1.47%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-20 10:48:58

End at: 2017-12-20 10:49:28

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.50 Mbit/s

95th percentile per-packet one-way delay: 141.044 ms

Loss rate: 0.00%

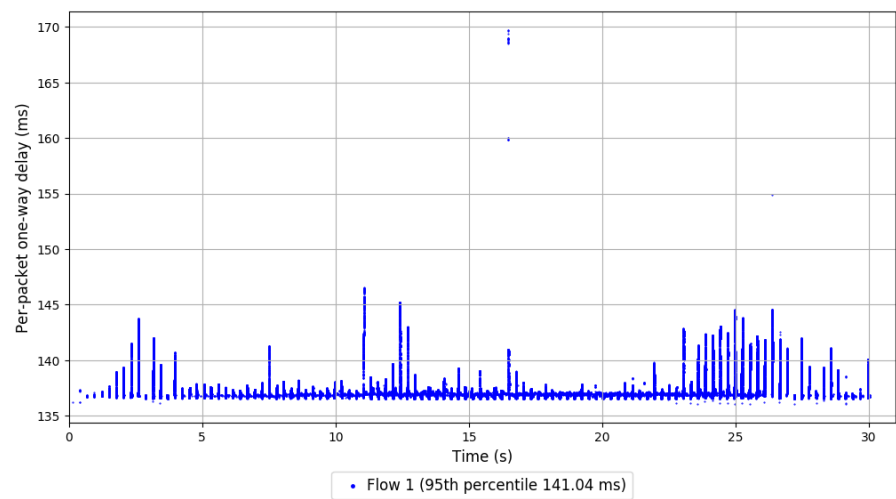
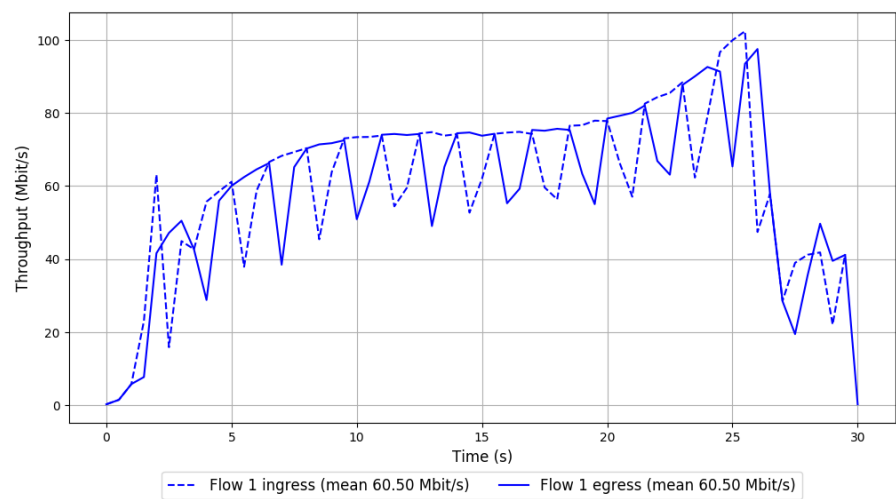
-- Flow 1:

Average throughput: 60.50 Mbit/s

95th percentile per-packet one-way delay: 141.044 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-20 11:01:52

End at: 2017-12-20 11:02:22

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 161.756 ms

Loss rate: 0.03%

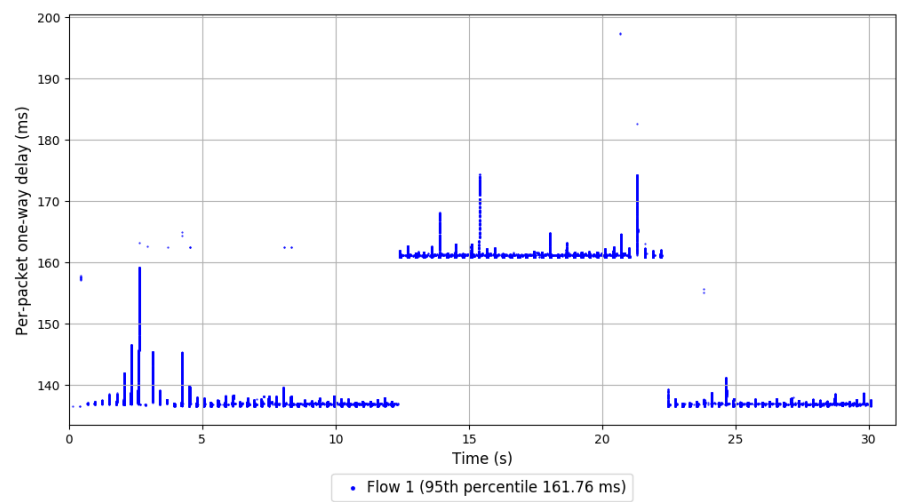
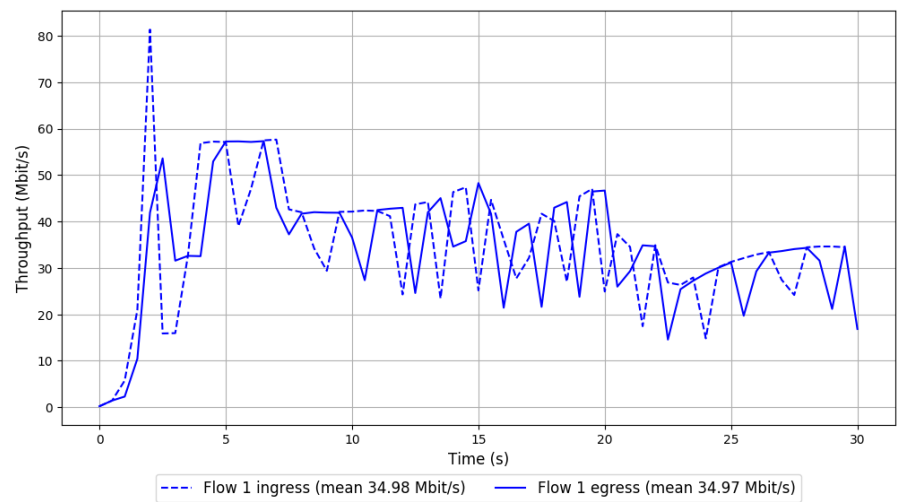
-- Flow 1:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 161.756 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-20 11:14:17

End at: 2017-12-20 11:14:47

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 161.628 ms

Loss rate: 0.01%

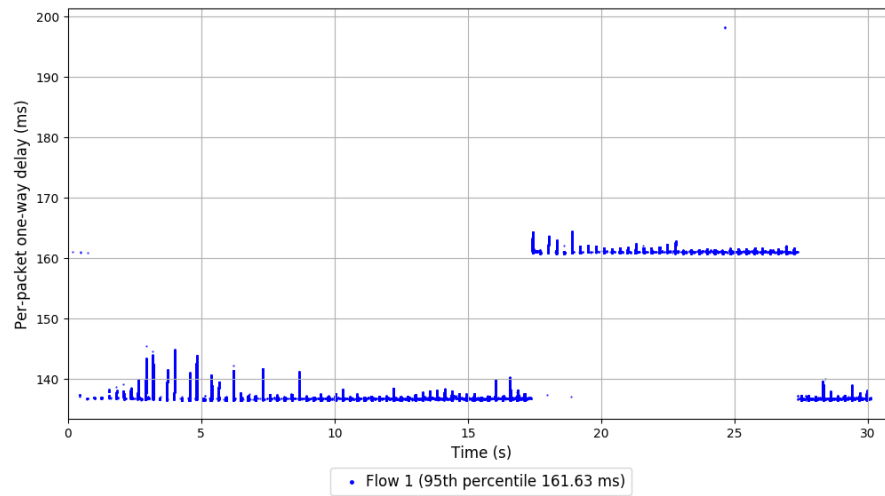
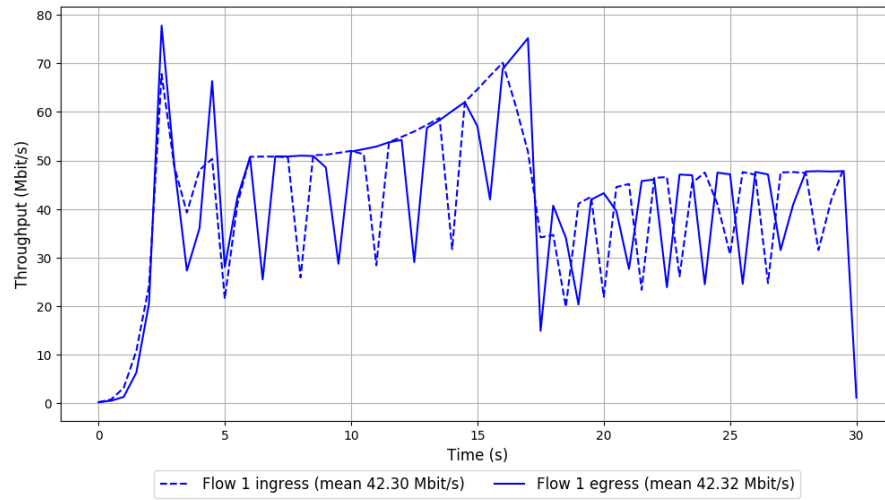
-- Flow 1:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 161.628 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

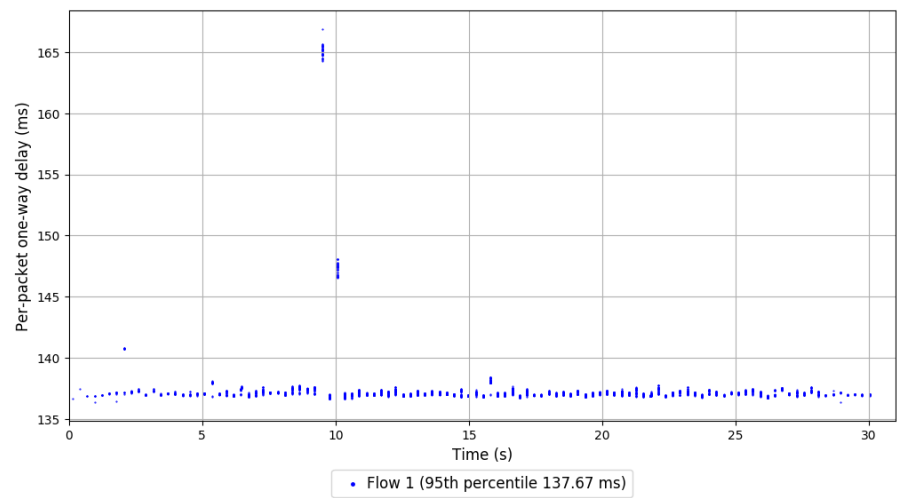
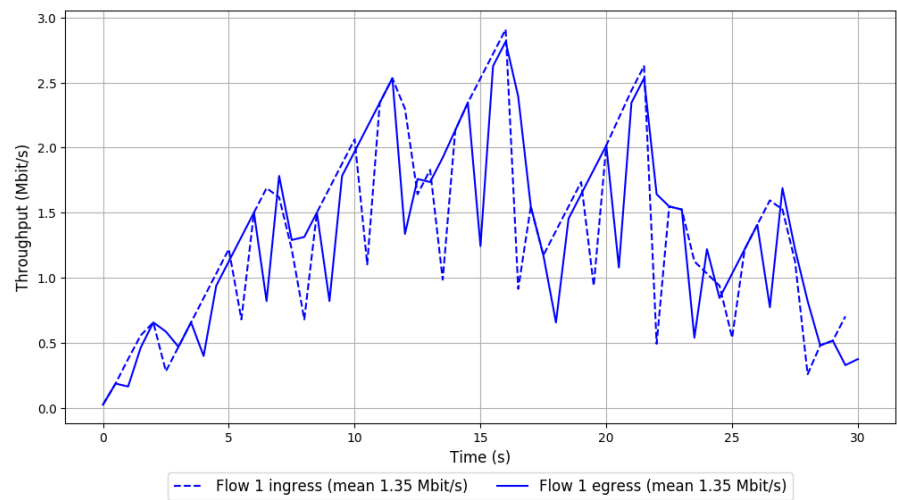


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-20 09:21:07
End at: 2017-12-20 09:21:37

# Below is generated by plot.py at 2017-12-20 12:24:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 137.669 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 137.669 ms
Loss rate: 0.23%
```


Run 1: Report of LEDBAT — Data Link

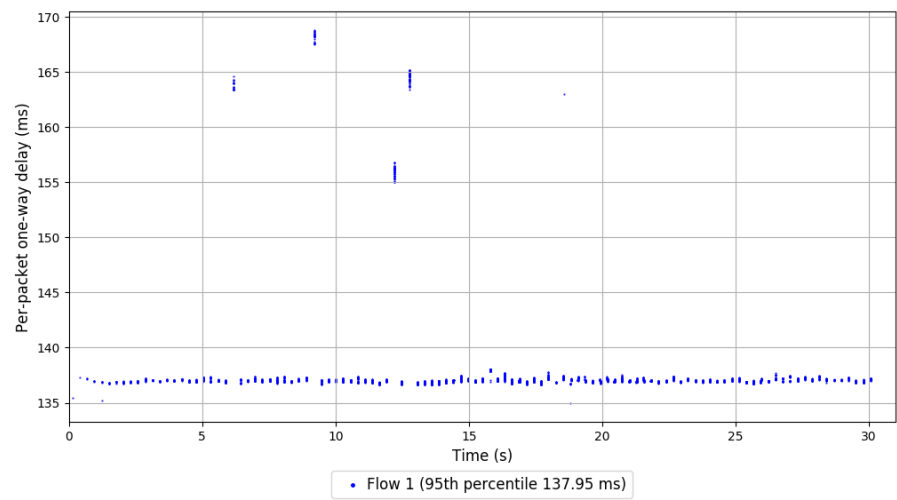
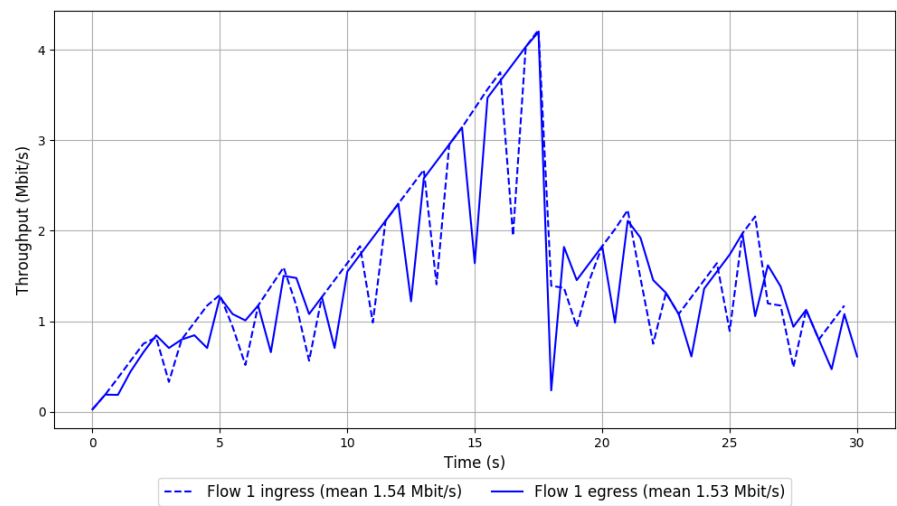


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-20 09:33:34
End at: 2017-12-20 09:34:04

# Below is generated by plot.py at 2017-12-20 12:24:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 137.947 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 137.947 ms
Loss rate: 0.05%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-20 09:46:38

End at: 2017-12-20 09:47:08

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 137.393 ms

Loss rate: 0.00%

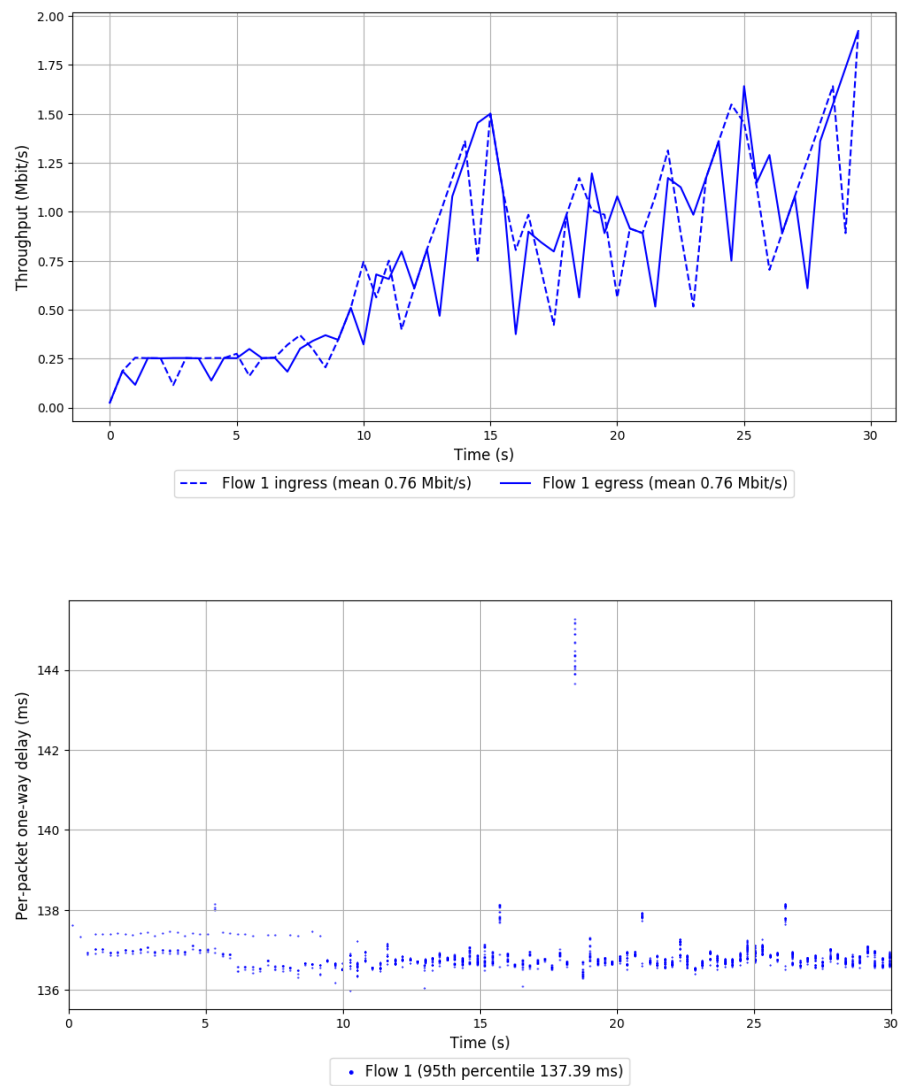
-- Flow 1:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 137.393 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-20 09:59:13

End at: 2017-12-20 09:59:43

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 166.178 ms

Loss rate: 0.17%

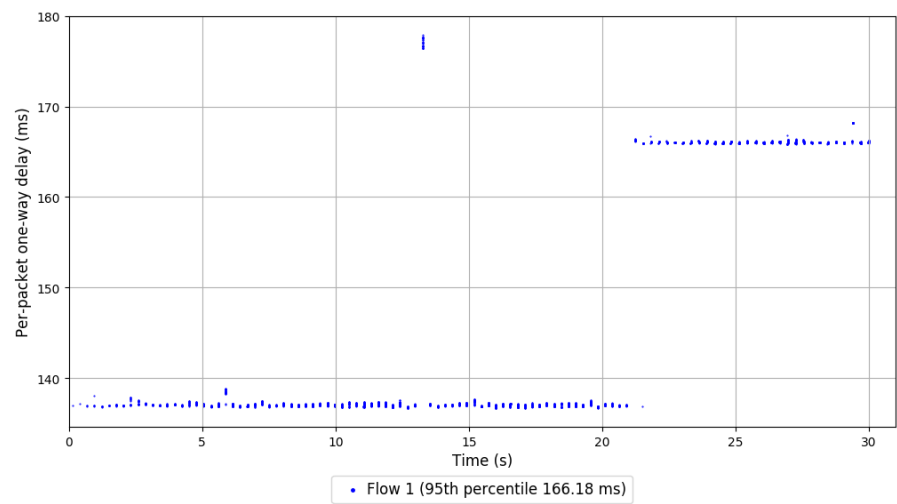
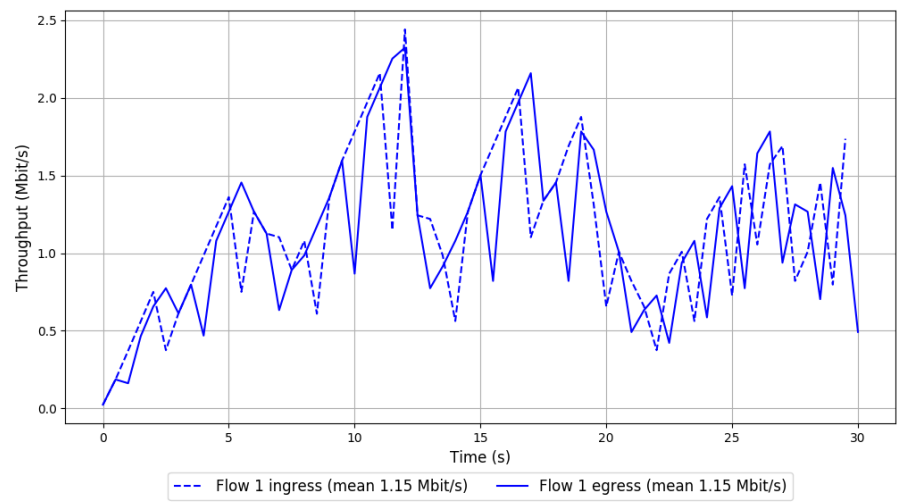
-- Flow 1:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 166.178 ms

Loss rate: 0.17%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-20 10:11:35

End at: 2017-12-20 10:12:05

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 138.121 ms

Loss rate: 0.00%

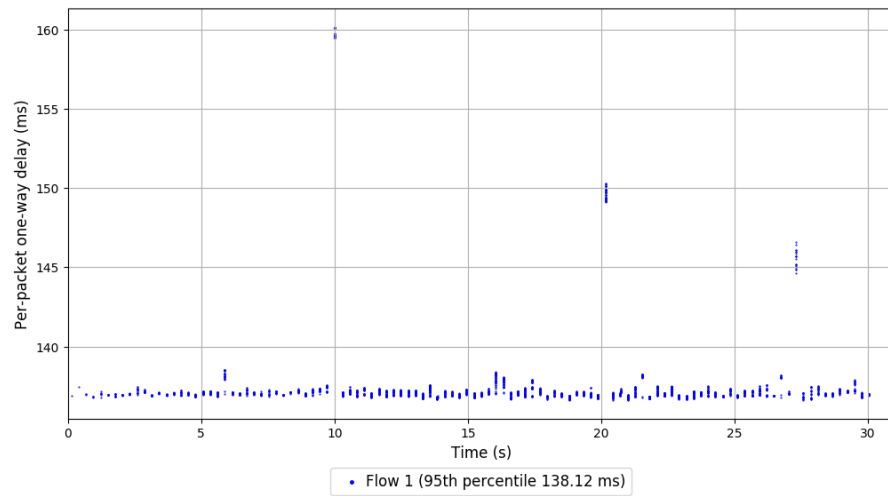
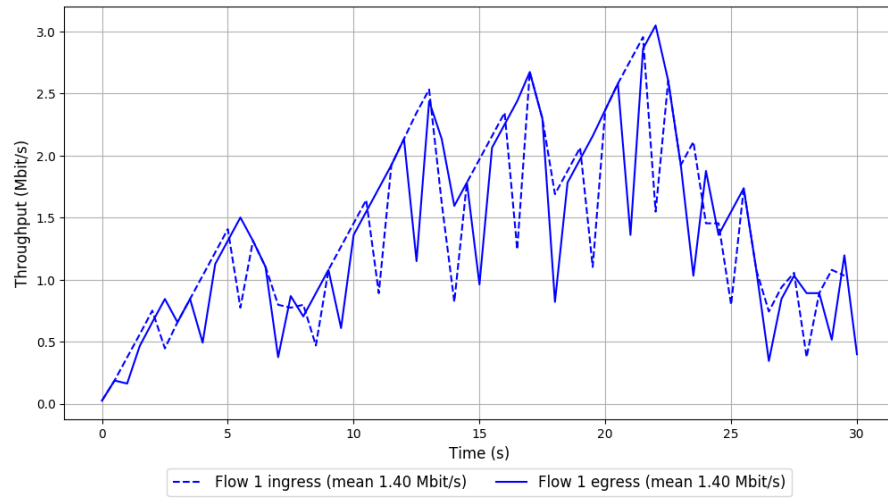
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 138.121 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-20 10:24:20

End at: 2017-12-20 10:24:50

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 157.481 ms

Loss rate: 0.28%

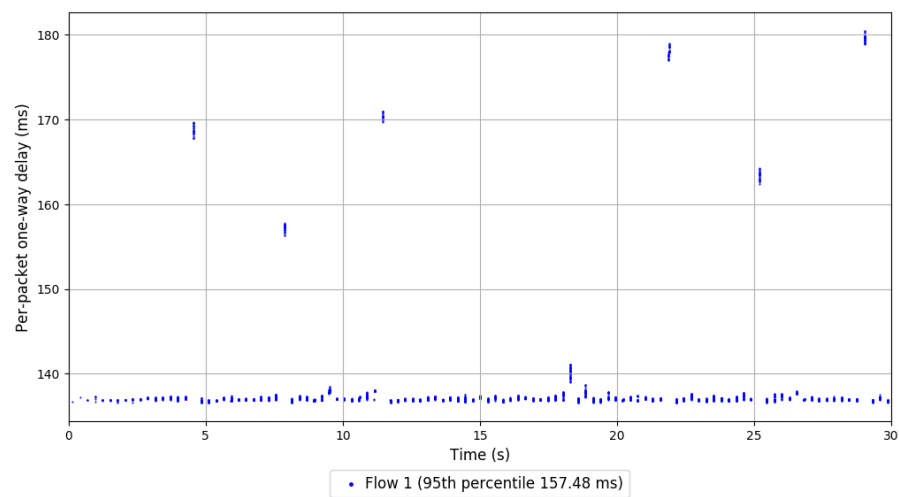
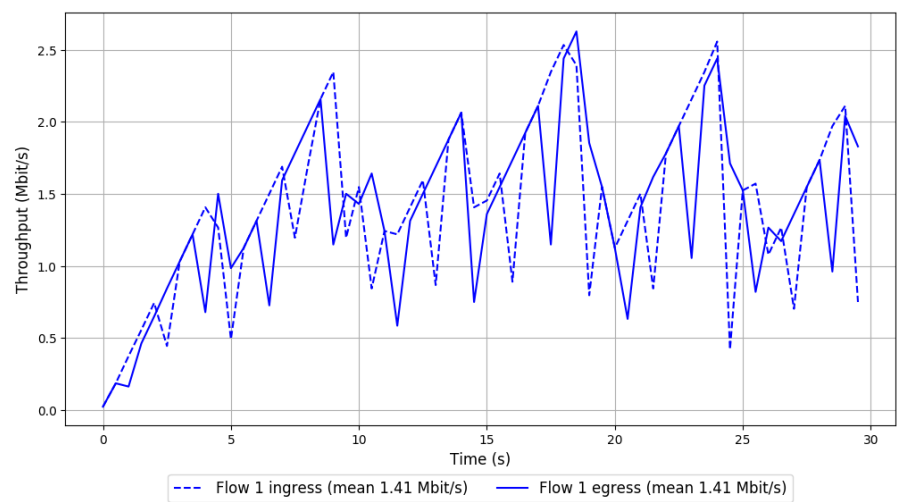
-- Flow 1:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 157.481 ms

Loss rate: 0.28%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-20 10:37:26

End at: 2017-12-20 10:37:56

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 161.457 ms

Loss rate: 0.00%

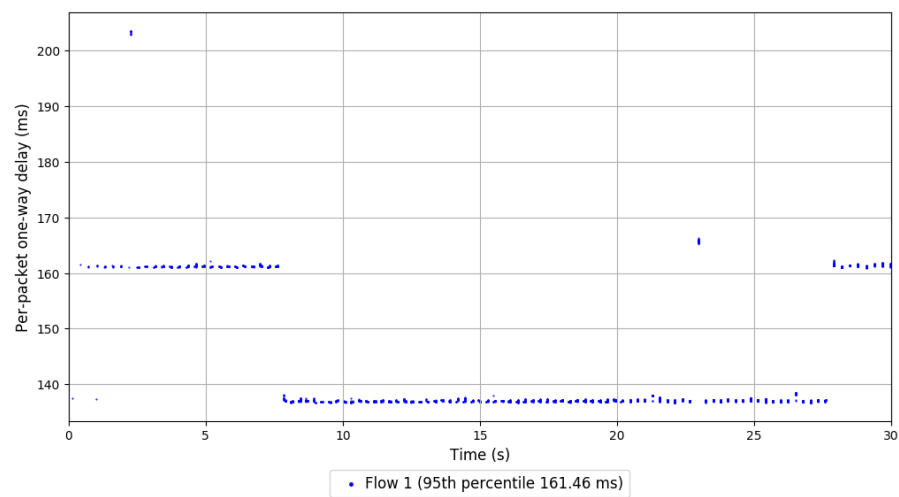
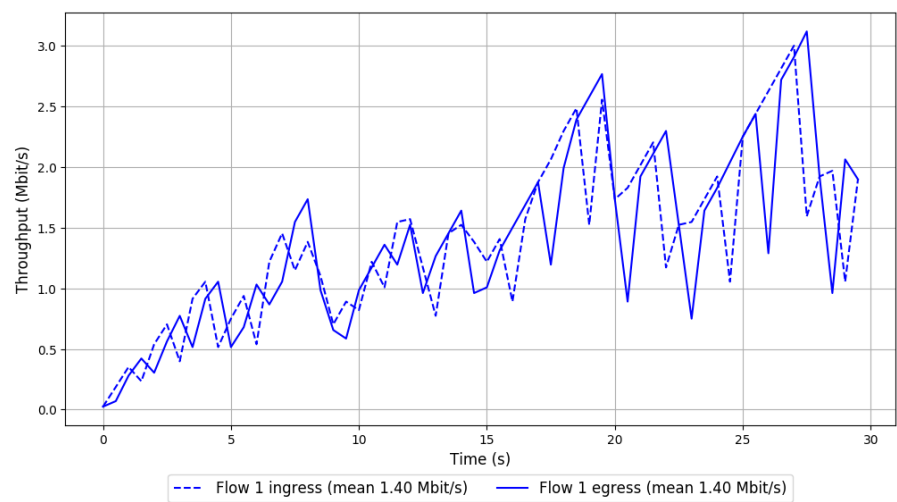
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 161.457 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-20 10:50:28

End at: 2017-12-20 10:50:58

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 137.434 ms

Loss rate: 0.00%

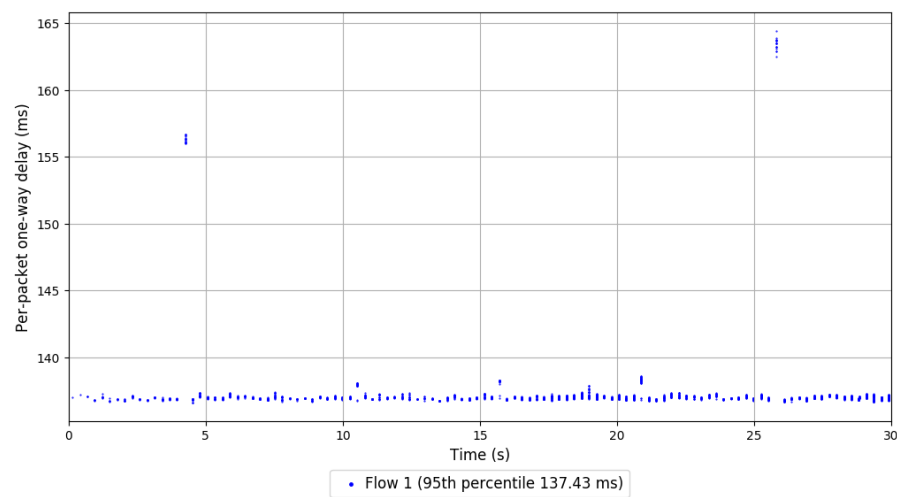
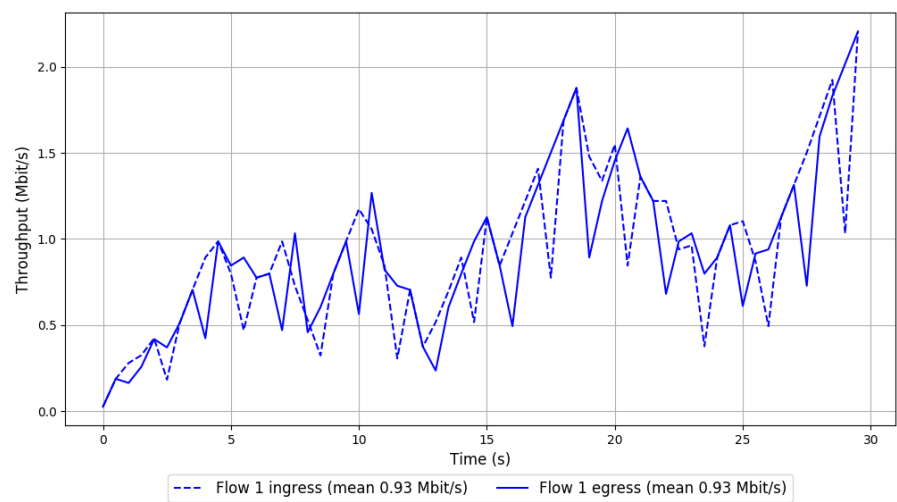
-- Flow 1:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 137.434 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-20 11:03:20

End at: 2017-12-20 11:03:50

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 161.475 ms

Loss rate: 0.00%

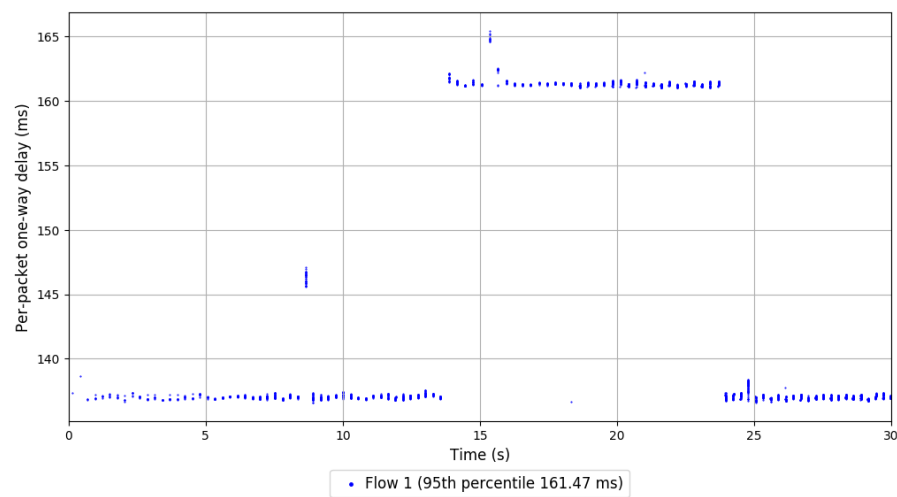
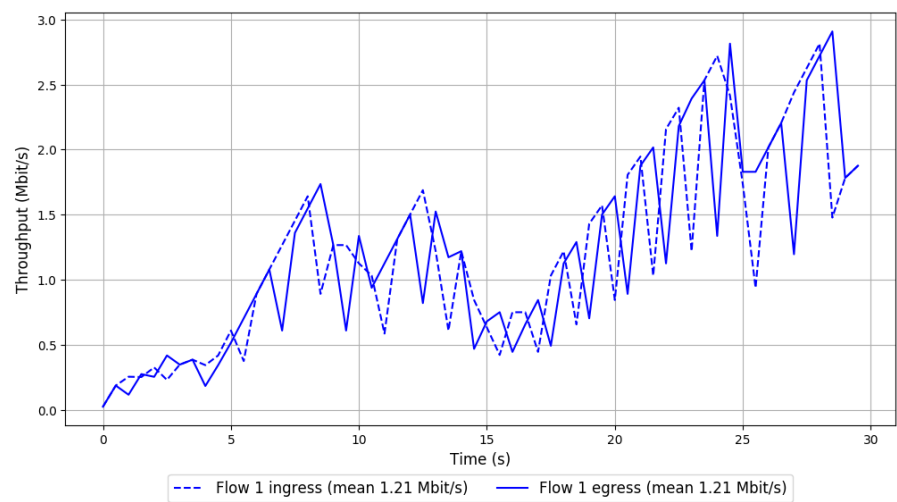
-- Flow 1:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 161.475 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-20 11:15:45

End at: 2017-12-20 11:16:15

Below is generated by plot.py at 2017-12-20 12:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 138.281 ms

Loss rate: 0.45%

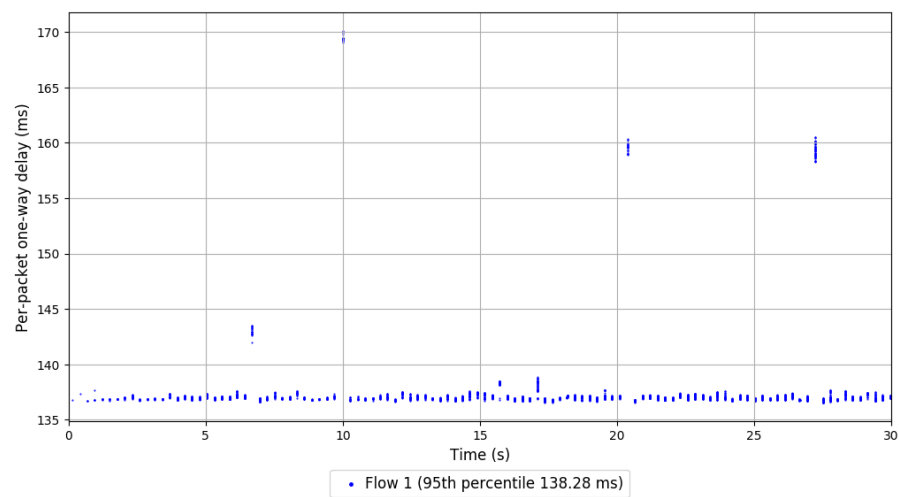
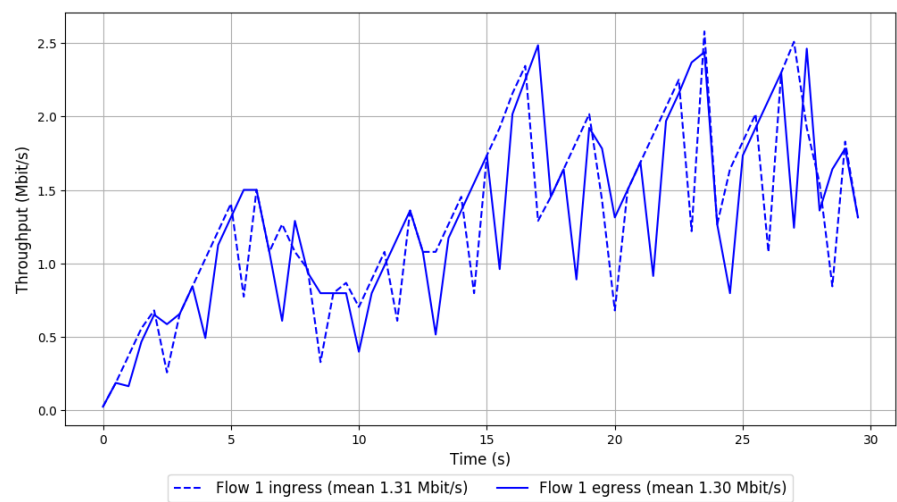
-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 138.281 ms

Loss rate: 0.45%

Run 10: Report of LEDBAT — Data Link

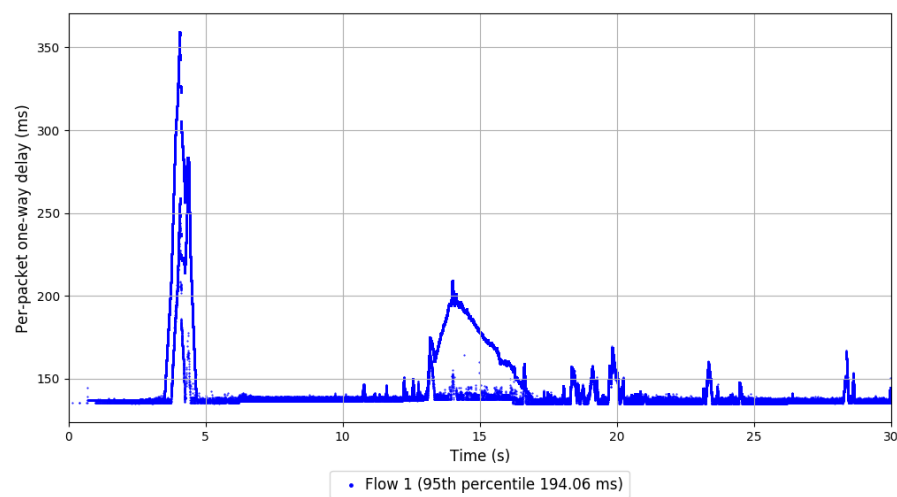
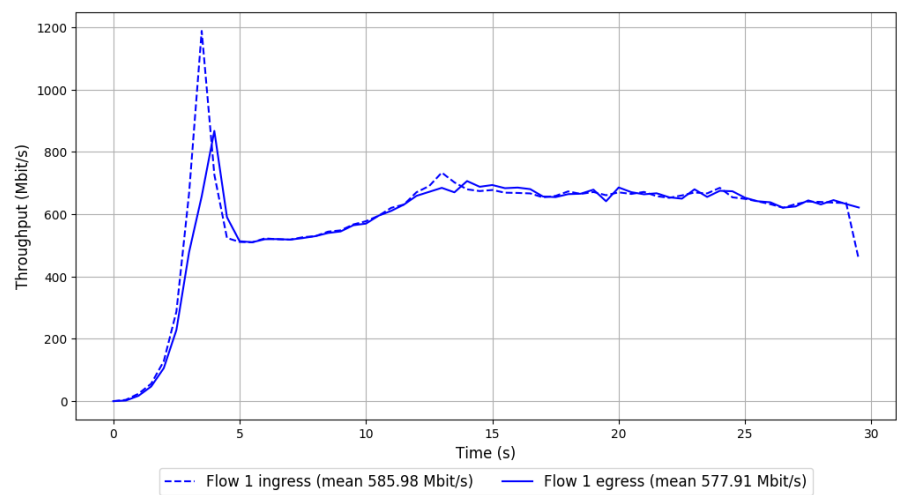


```
Run 1: Statistics of PCC

Start at: 2017-12-20 09:23:58
End at: 2017-12-20 09:24:28

# Below is generated by plot.py at 2017-12-20 12:33:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 577.91 Mbit/s
95th percentile per-packet one-way delay: 194.056 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 577.91 Mbit/s
95th percentile per-packet one-way delay: 194.056 ms
Loss rate: 1.37%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-20 09:36:59

End at: 2017-12-20 09:37:29

Below is generated by plot.py at 2017-12-20 12:33:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.14 Mbit/s

95th percentile per-packet one-way delay: 176.659 ms

Loss rate: 1.54%

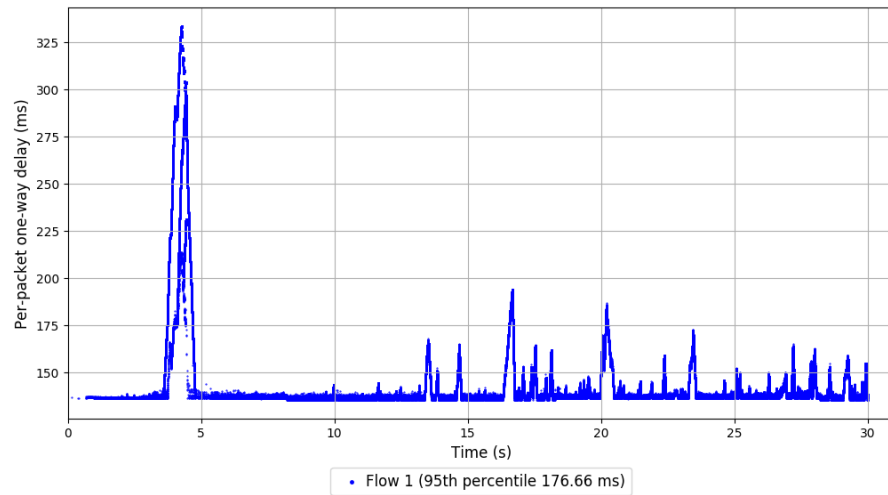
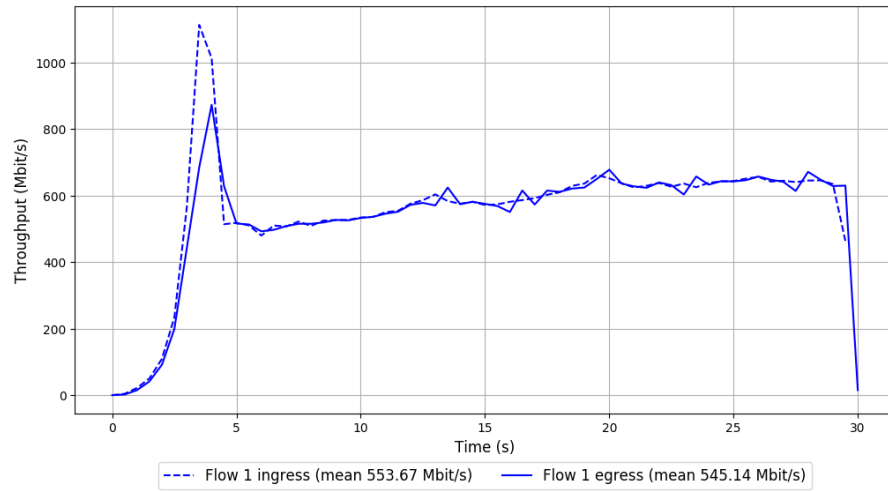
-- Flow 1:

Average throughput: 545.14 Mbit/s

95th percentile per-packet one-way delay: 176.659 ms

Loss rate: 1.54%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-20 09:49:44

End at: 2017-12-20 09:50:14

Below is generated by plot.py at 2017-12-20 12:33:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.94 Mbit/s

95th percentile per-packet one-way delay: 183.450 ms

Loss rate: 1.65%

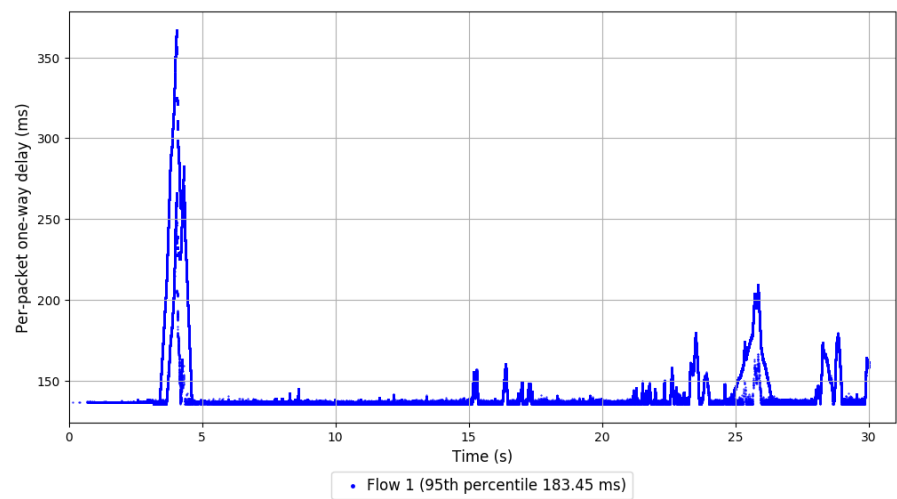
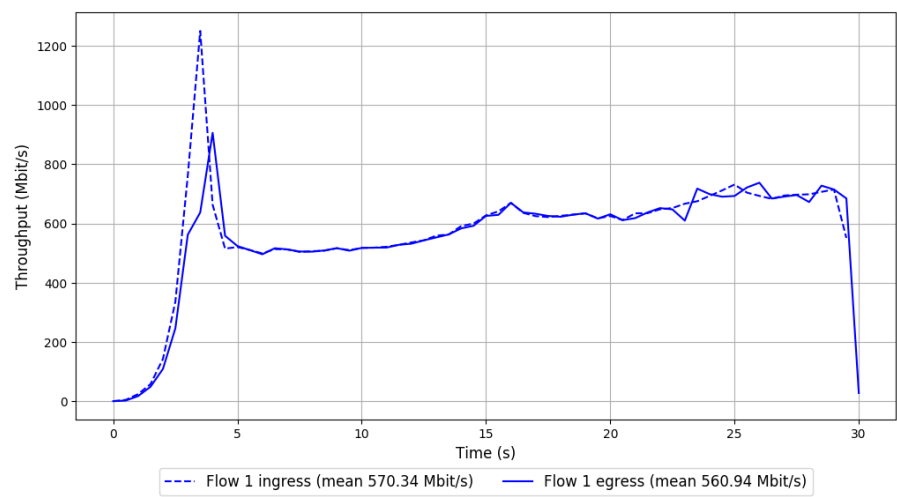
-- Flow 1:

Average throughput: 560.94 Mbit/s

95th percentile per-packet one-way delay: 183.450 ms

Loss rate: 1.65%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-20 10:02:12

End at: 2017-12-20 10:02:42

Below is generated by plot.py at 2017-12-20 12:33:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.88 Mbit/s

95th percentile per-packet one-way delay: 185.483 ms

Loss rate: 2.17%

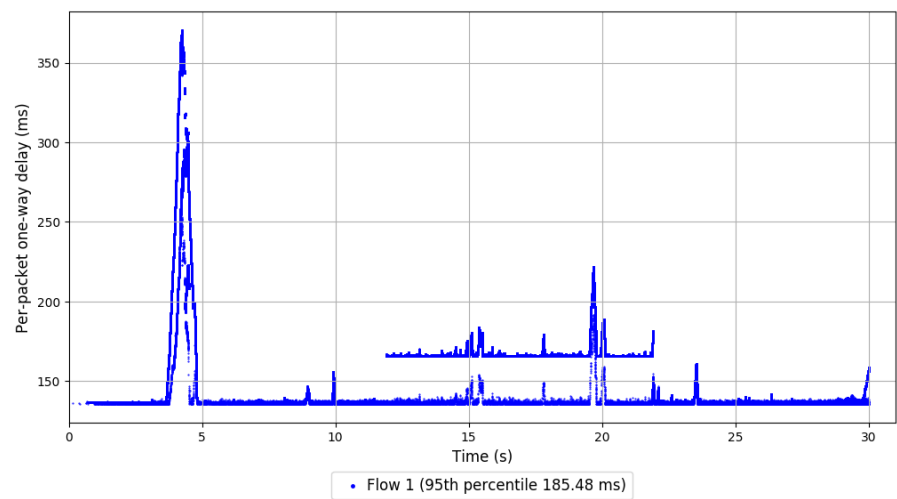
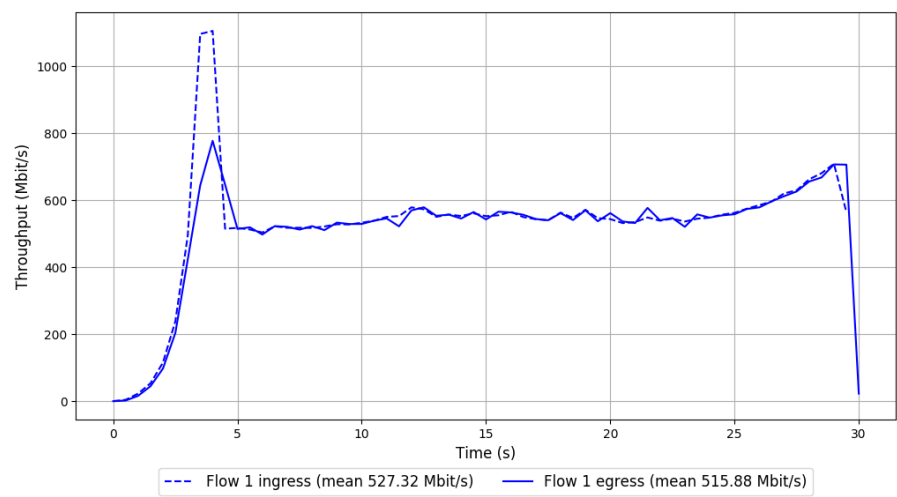
-- Flow 1:

Average throughput: 515.88 Mbit/s

95th percentile per-packet one-way delay: 185.483 ms

Loss rate: 2.17%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-20 10:14:36

End at: 2017-12-20 10:15:06

Below is generated by plot.py at 2017-12-20 12:33:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.31 Mbit/s

95th percentile per-packet one-way delay: 180.885 ms

Loss rate: 1.59%

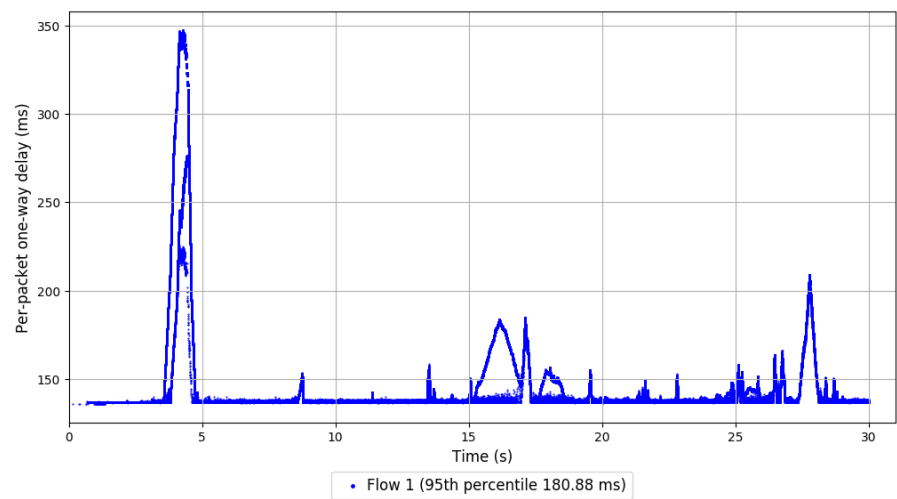
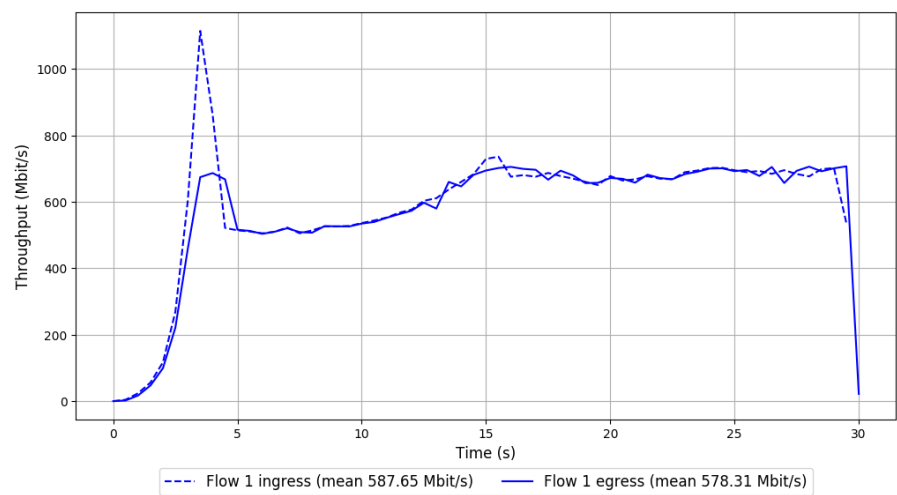
-- Flow 1:

Average throughput: 578.31 Mbit/s

95th percentile per-packet one-way delay: 180.885 ms

Loss rate: 1.59%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-20 10:27:42

End at: 2017-12-20 10:28:12

Below is generated by plot.py at 2017-12-20 12:33:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.97 Mbit/s

95th percentile per-packet one-way delay: 194.172 ms

Loss rate: 0.22%

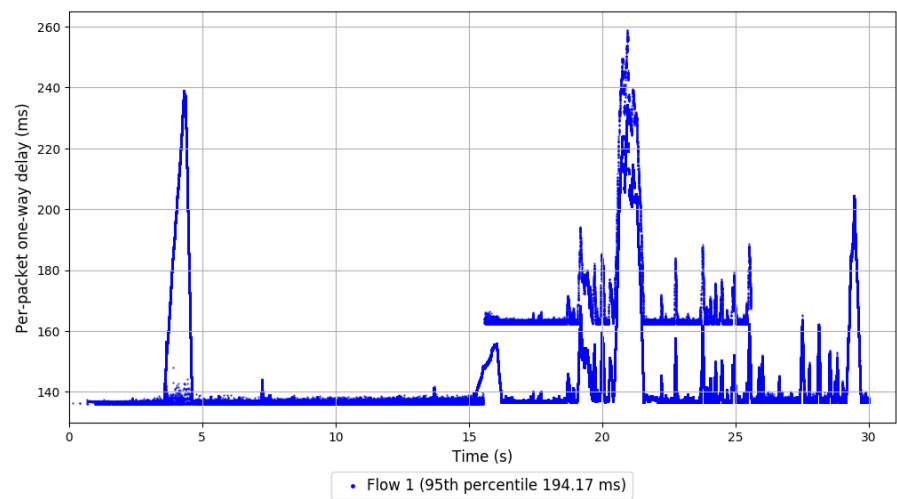
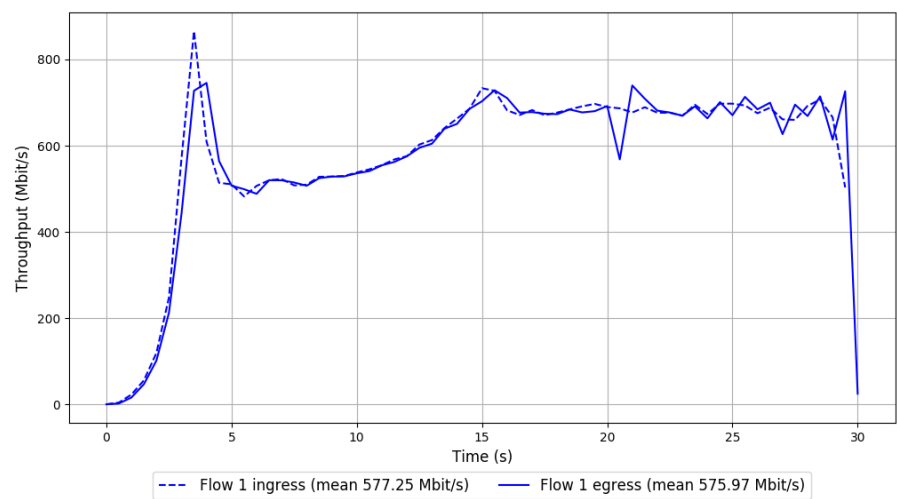
-- Flow 1:

Average throughput: 575.97 Mbit/s

95th percentile per-packet one-way delay: 194.172 ms

Loss rate: 0.22%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-20 10:40:51

End at: 2017-12-20 10:41:21

Below is generated by plot.py at 2017-12-20 12:34:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.57 Mbit/s

95th percentile per-packet one-way delay: 187.020 ms

Loss rate: 1.90%

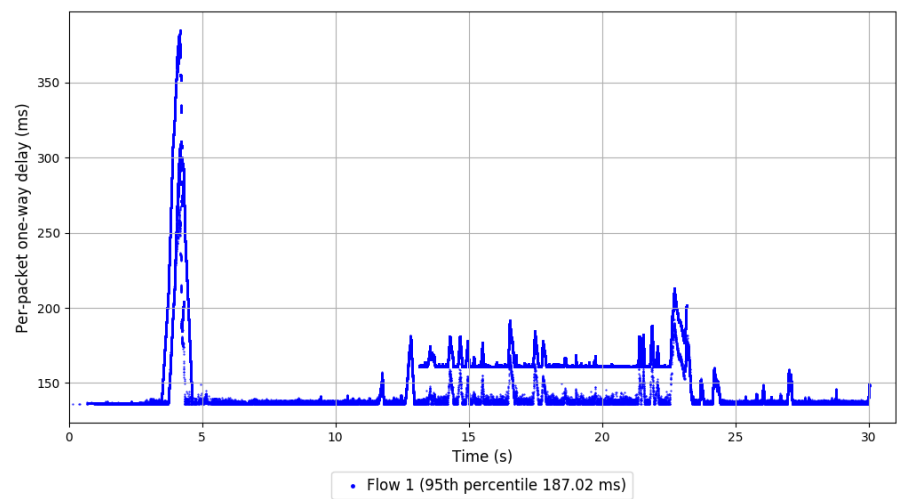
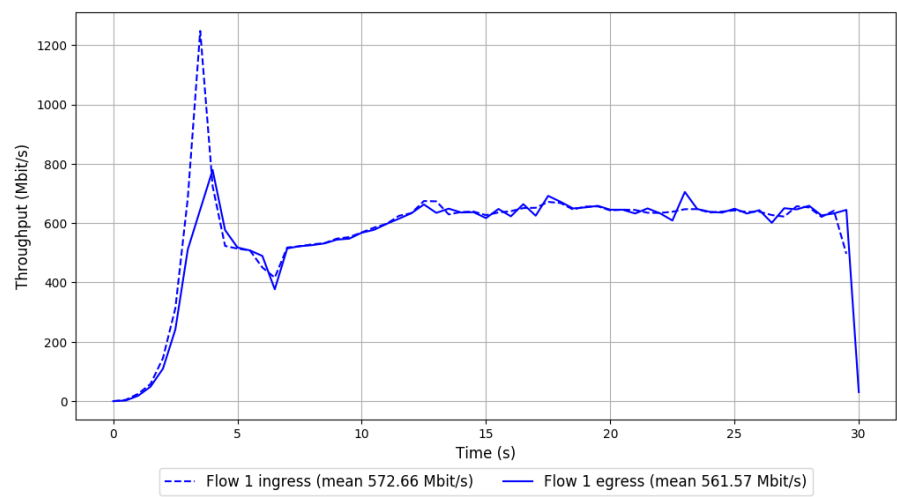
-- Flow 1:

Average throughput: 561.57 Mbit/s

95th percentile per-packet one-way delay: 187.020 ms

Loss rate: 1.90%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-20 10:53:46

End at: 2017-12-20 10:54:16

Below is generated by plot.py at 2017-12-20 12:34:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.47 Mbit/s

95th percentile per-packet one-way delay: 174.718 ms

Loss rate: 2.14%

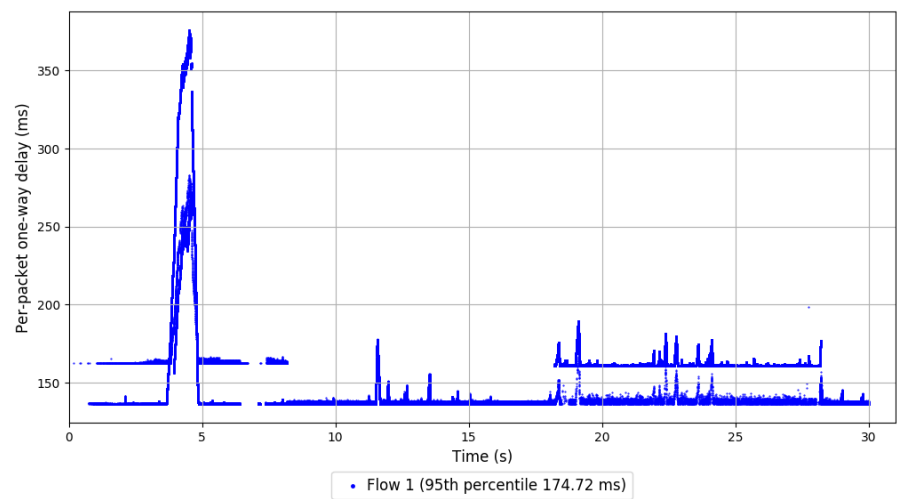
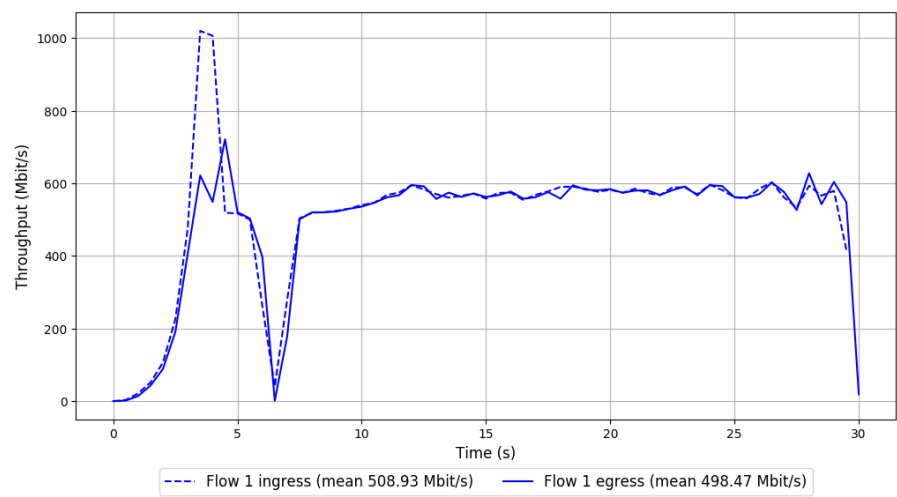
-- Flow 1:

Average throughput: 498.47 Mbit/s

95th percentile per-packet one-way delay: 174.718 ms

Loss rate: 2.14%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-20 11:06:20

End at: 2017-12-20 11:06:50

Below is generated by plot.py at 2017-12-20 12:34:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 161.014 ms

Loss rate: 0.00%

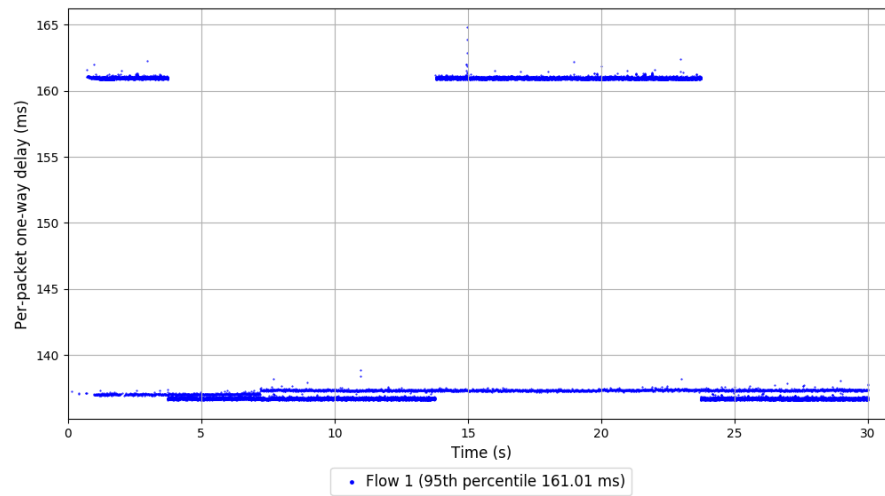
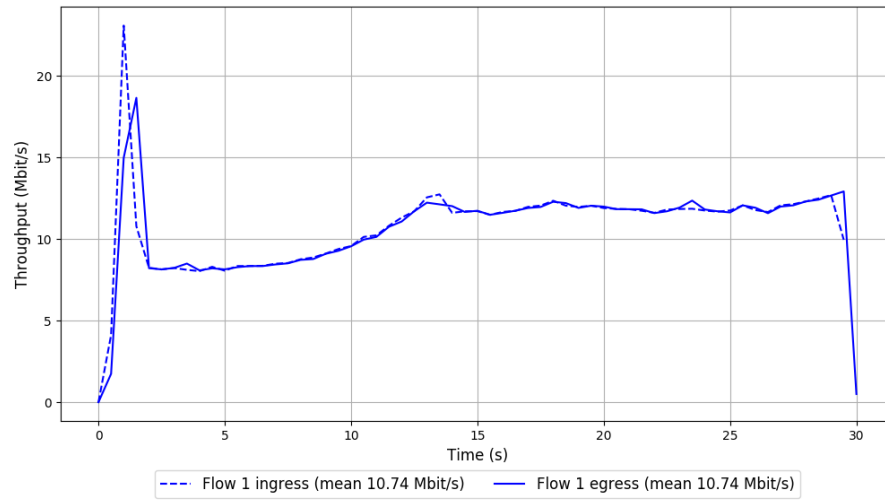
-- Flow 1:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 161.014 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-20 11:18:39

End at: 2017-12-20 11:19:09

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.75 Mbit/s

95th percentile per-packet one-way delay: 206.571 ms

Loss rate: 1.24%

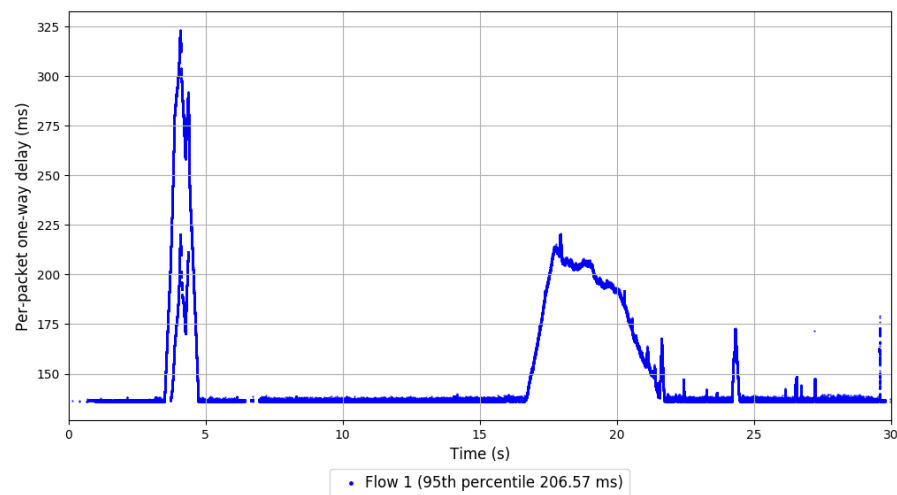
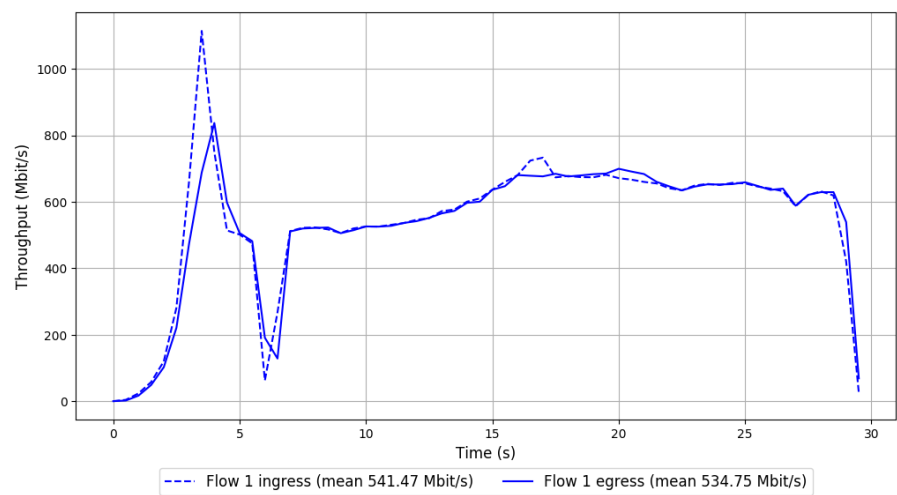
-- Flow 1:

Average throughput: 534.75 Mbit/s

95th percentile per-packet one-way delay: 206.571 ms

Loss rate: 1.24%

Run 10: Report of PCC — Data Link

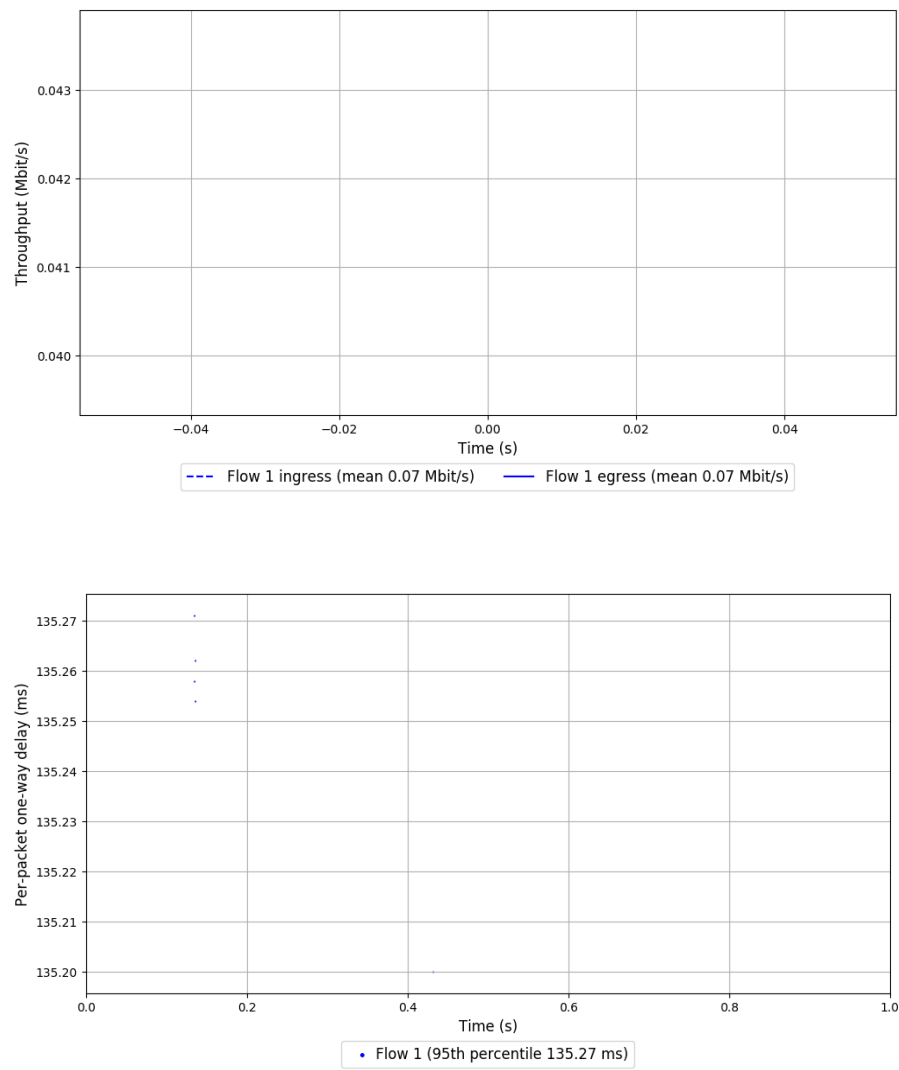


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-20 09:22:34

End at: 2017-12-20 09:23:04

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-20 09:35:20

End at: 2017-12-20 09:35:50

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 137.098 ms

Loss rate: 0.00%

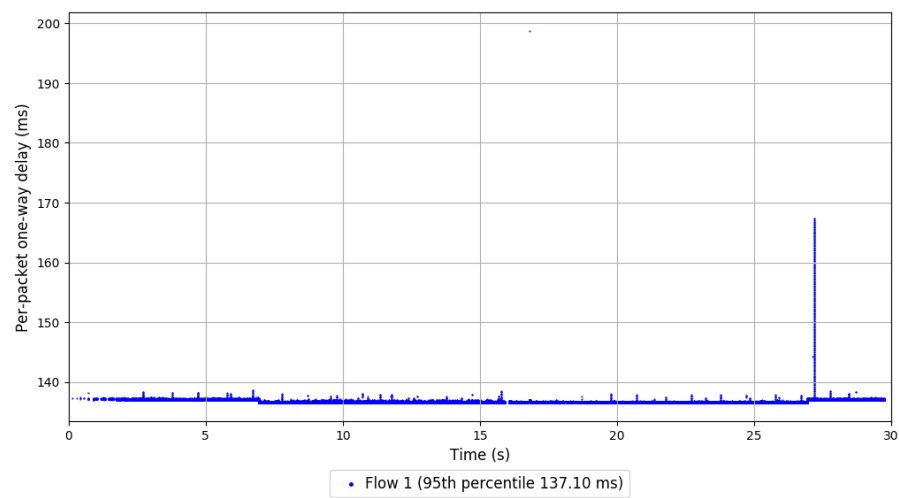
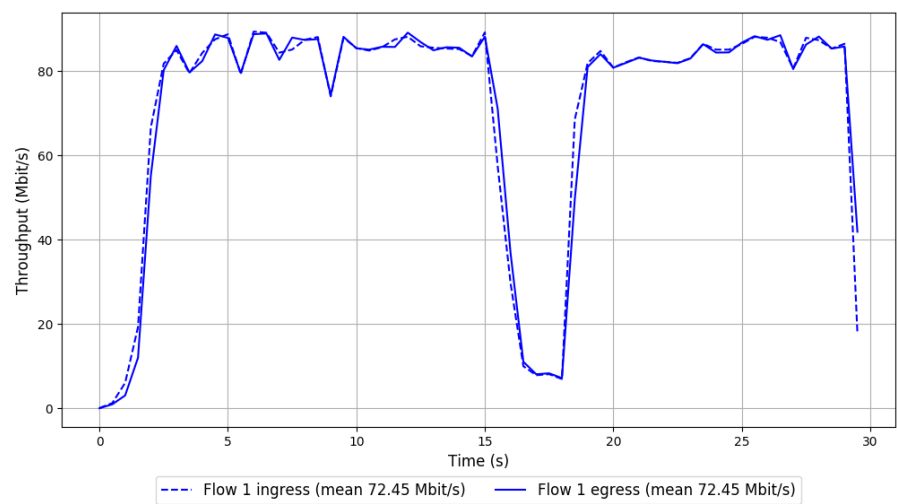
-- Flow 1:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 137.098 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-20 09:48:15

End at: 2017-12-20 09:48:45

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 135.600 ms

Loss rate: 0.00%

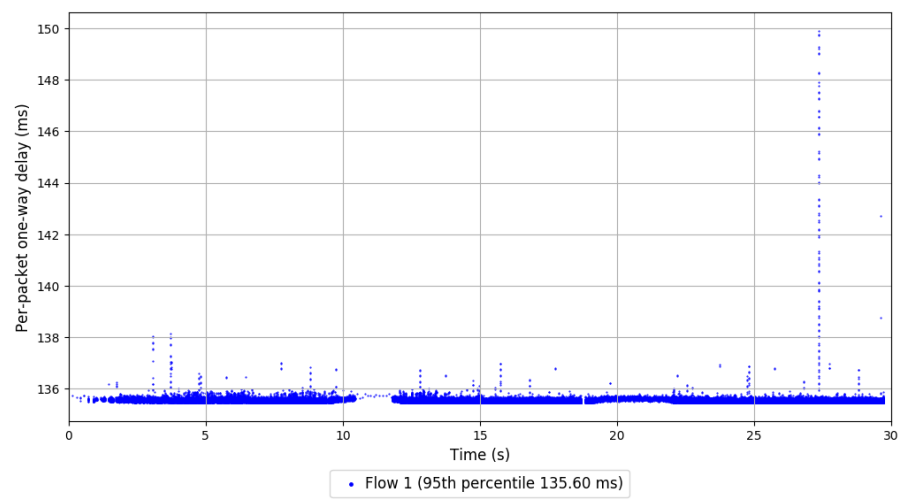
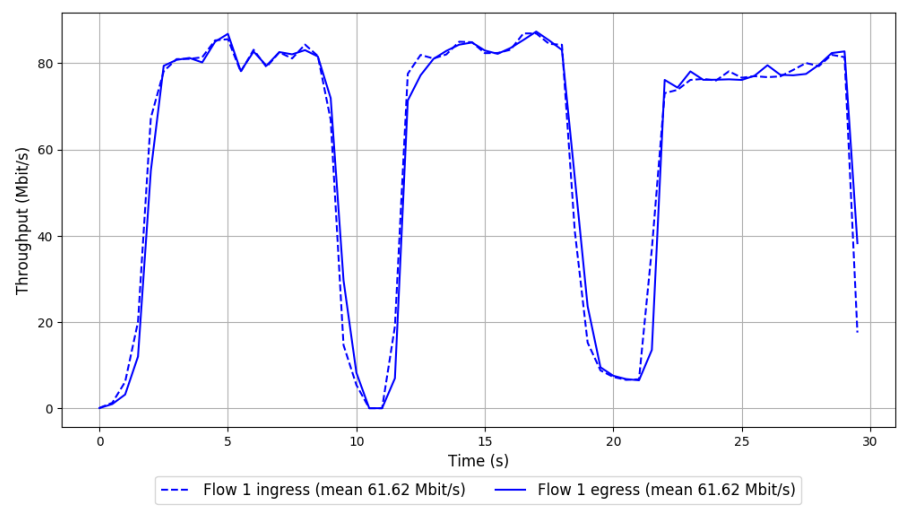
-- Flow 1:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 135.600 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

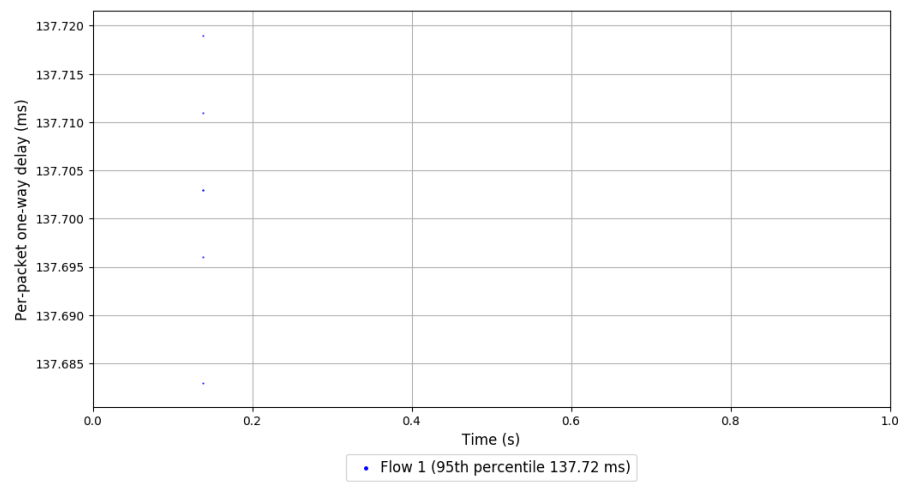
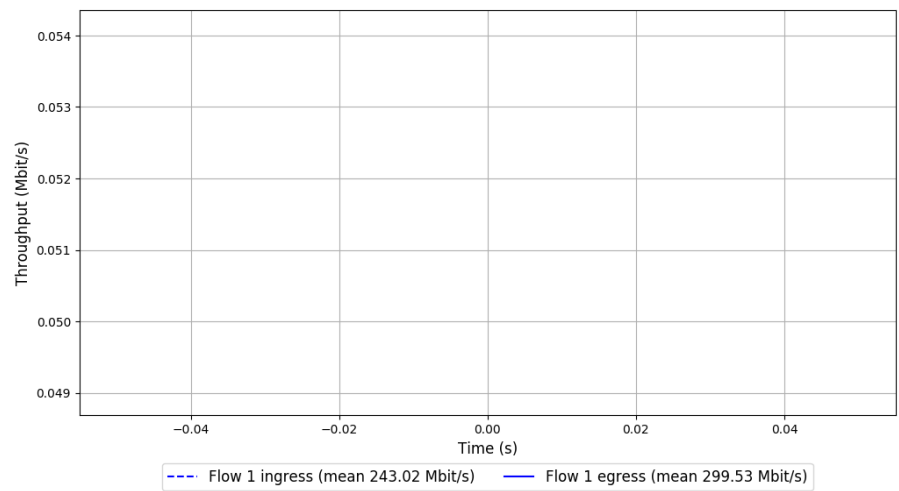


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-20 10:00:41

End at: 2017-12-20 10:01:11

Run 4: Report of QUIC Cubic — Data Link

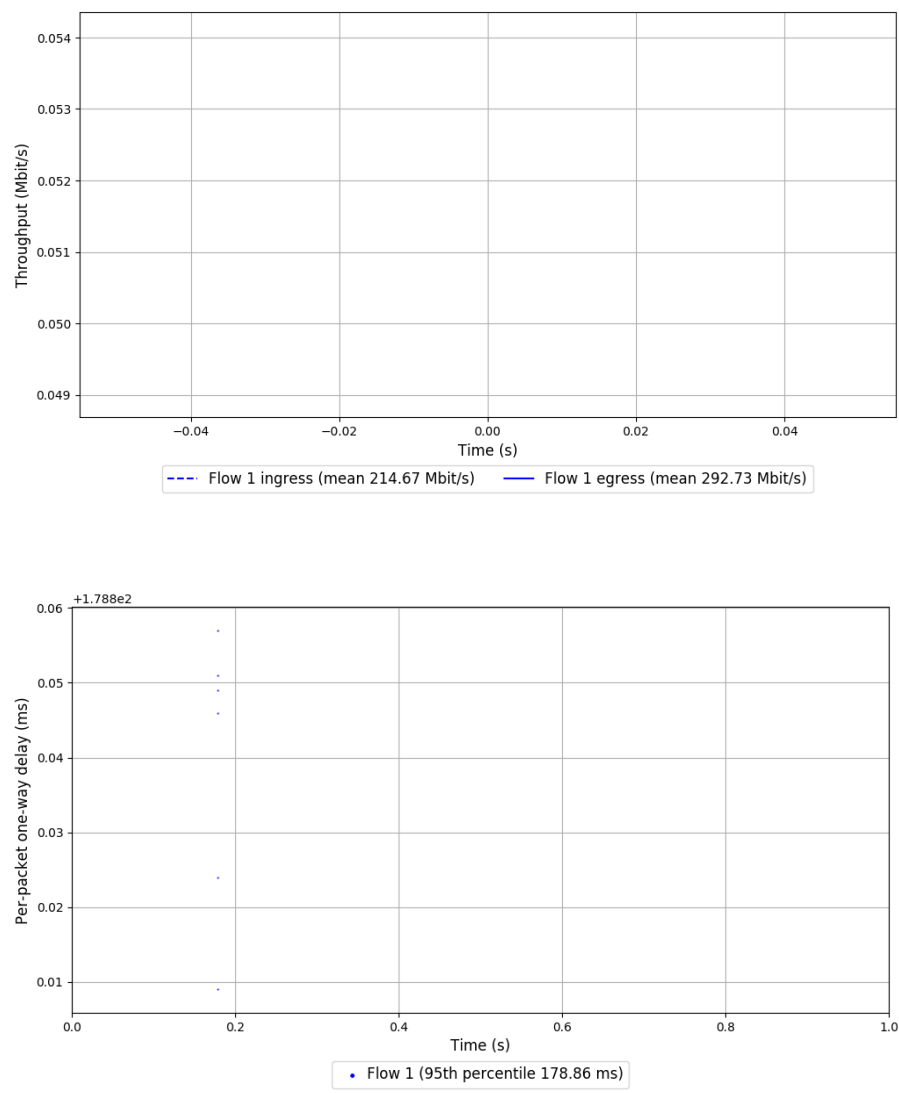


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-20 10:13:05

End at: 2017-12-20 10:13:35

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-20 10:26:07

End at: 2017-12-20 10:26:37

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 136.523 ms

Loss rate: 0.00%

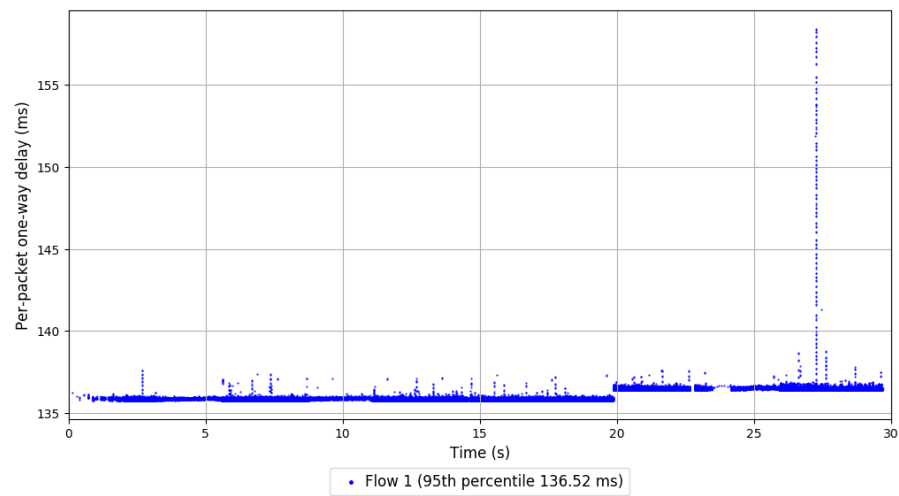
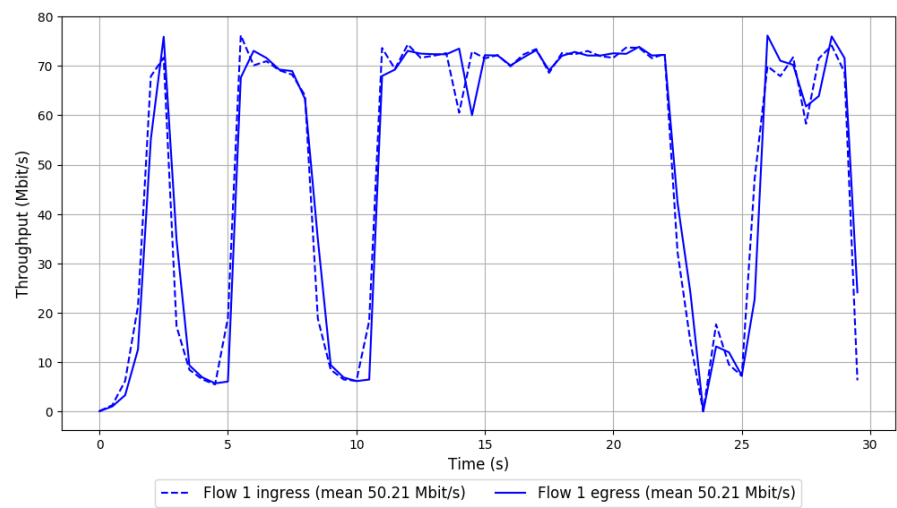
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 136.523 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-20 10:39:13

End at: 2017-12-20 10:39:43

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 137.002 ms

Loss rate: 0.00%

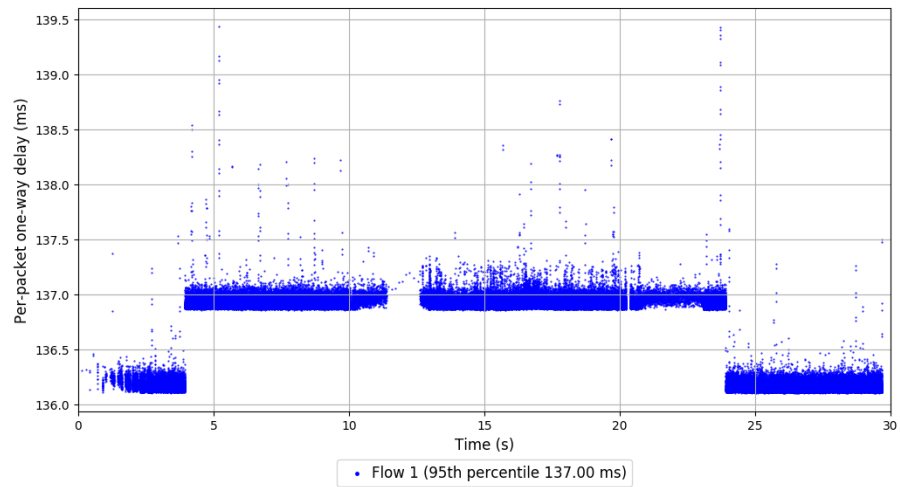
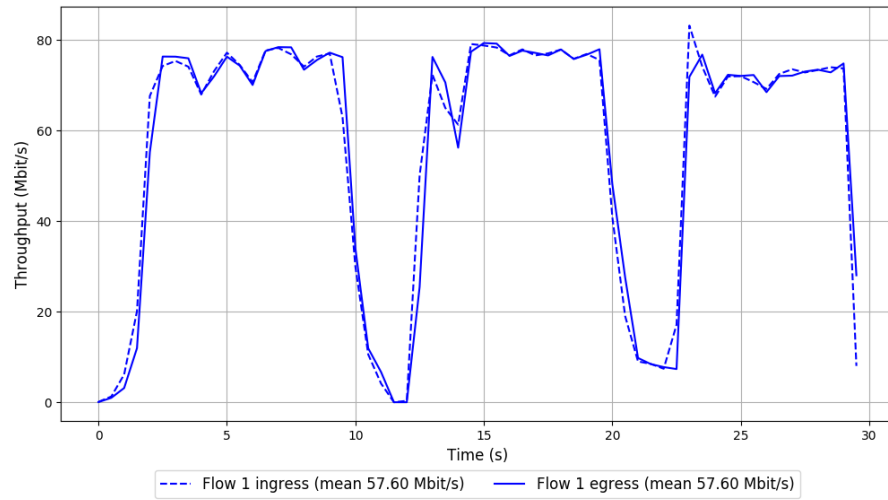
-- Flow 1:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 137.002 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-20 10:52:08

End at: 2017-12-20 10:52:38

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 162.442 ms

Loss rate: 0.00%

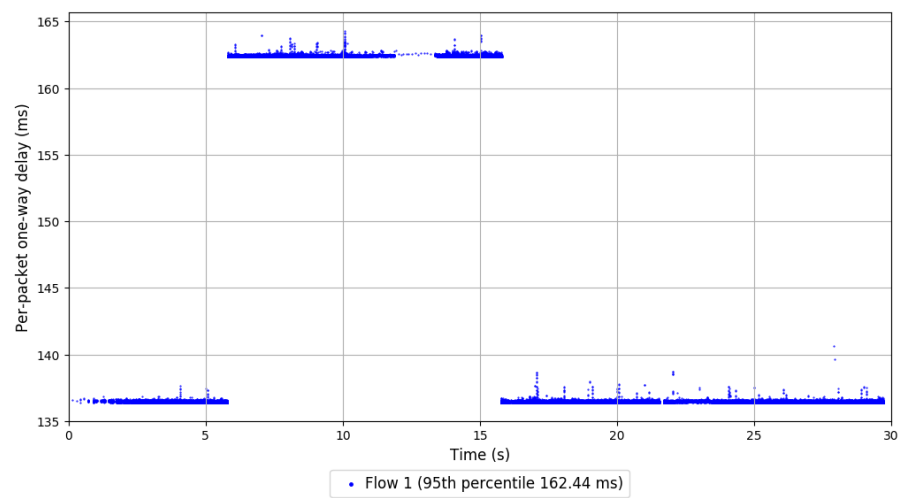
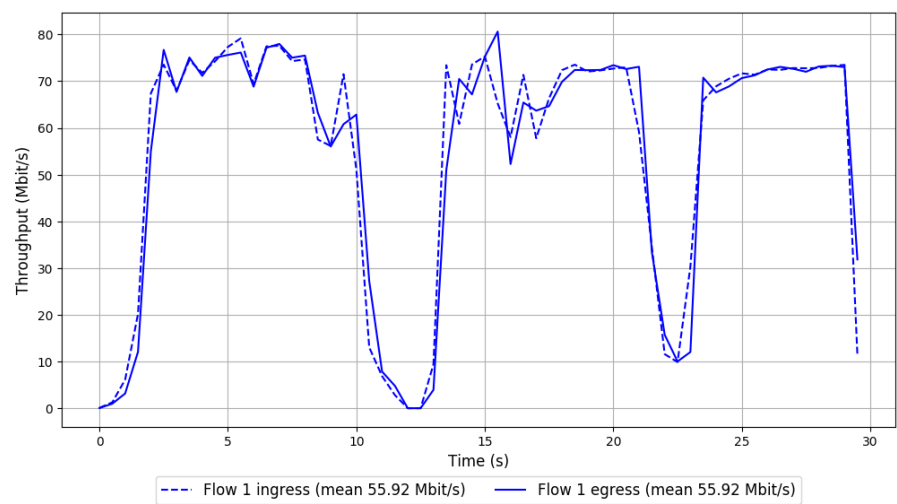
-- Flow 1:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 162.442 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

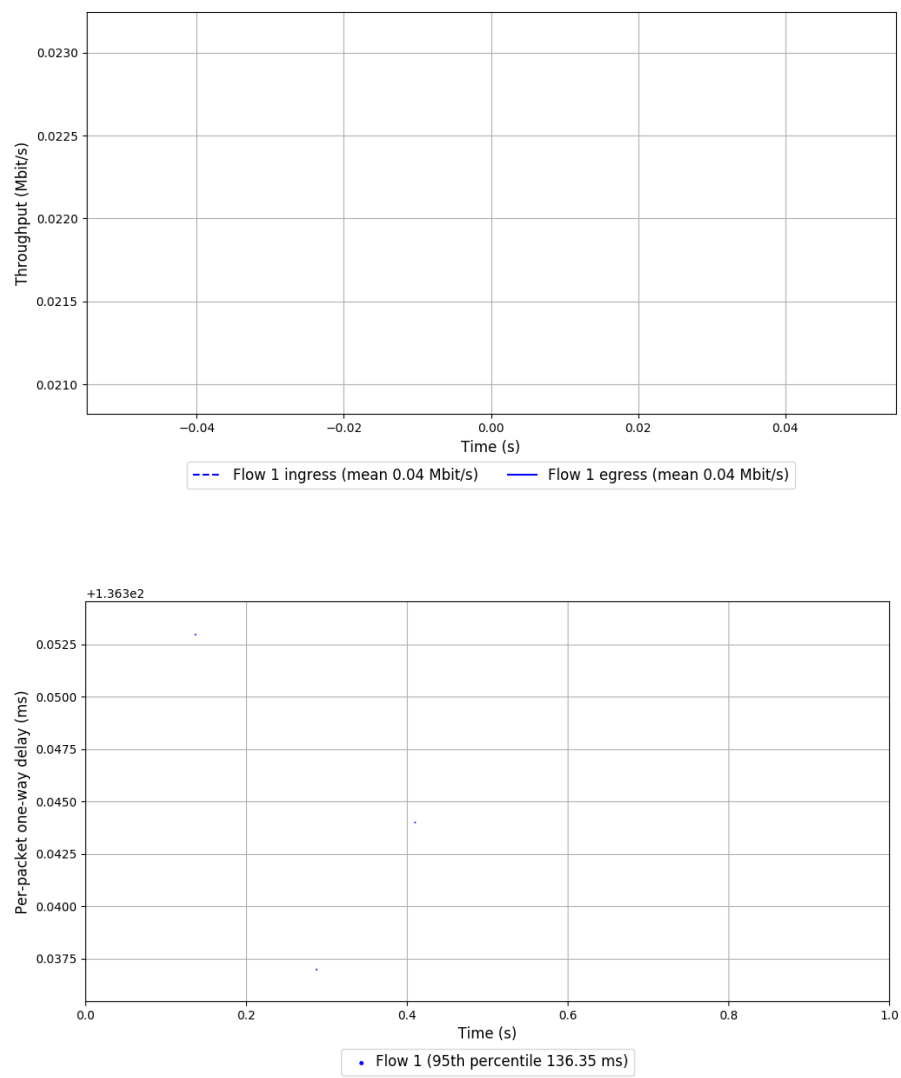


Run 9: Statistics of QUIC Cubic

Start at: 2017-12-20 11:04:54

End at: 2017-12-20 11:05:24

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-20 11:17:10

End at: 2017-12-20 11:17:40

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.27 Mbit/s

95th percentile per-packet one-way delay: 136.940 ms

Loss rate: 0.00%

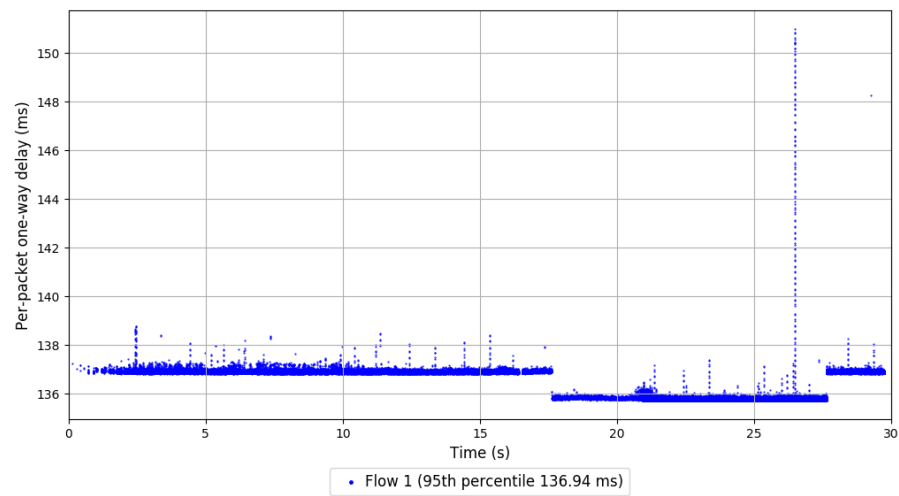
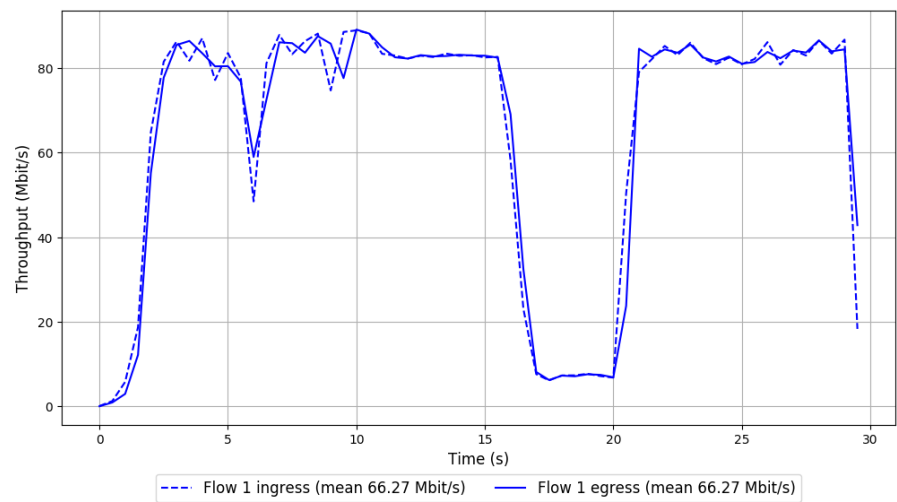
-- Flow 1:

Average throughput: 66.27 Mbit/s

95th percentile per-packet one-way delay: 136.940 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

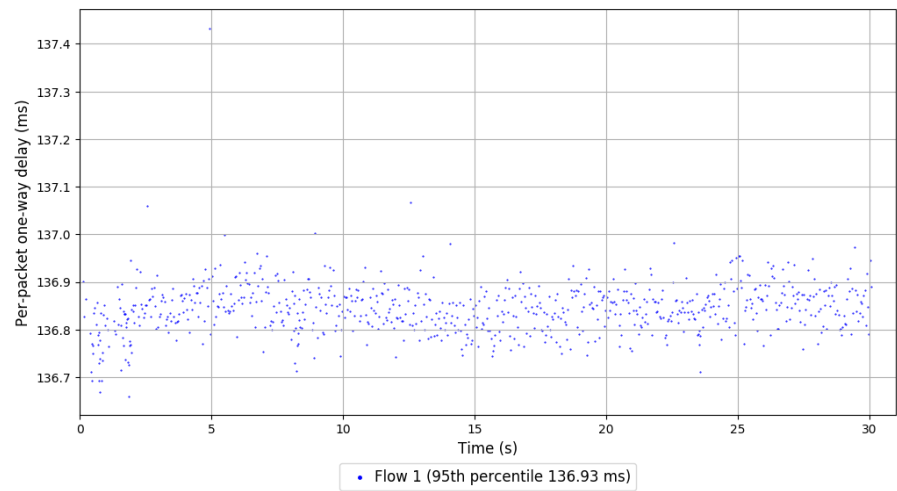
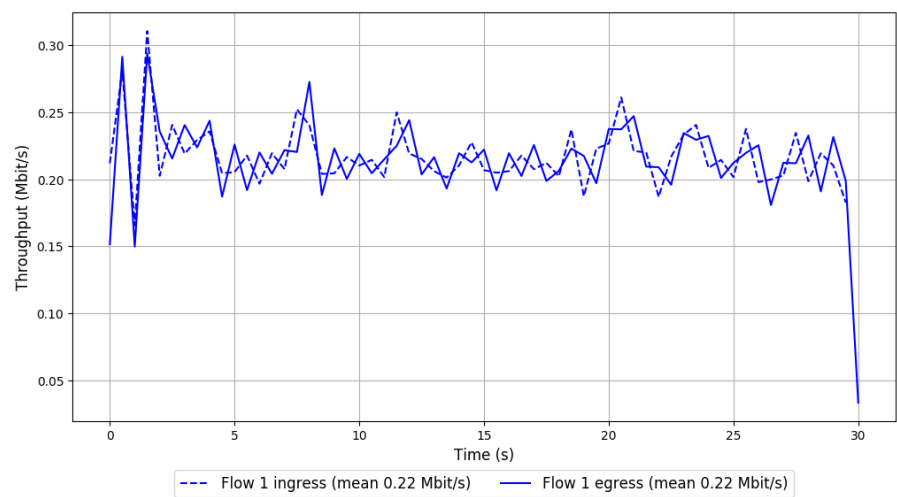


```
Run 1: Statistics of SCReAM

Start at: 2017-12-20 09:20:25
End at: 2017-12-20 09:20:55

# Below is generated by plot.py at 2017-12-20 12:42:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.926 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.926 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

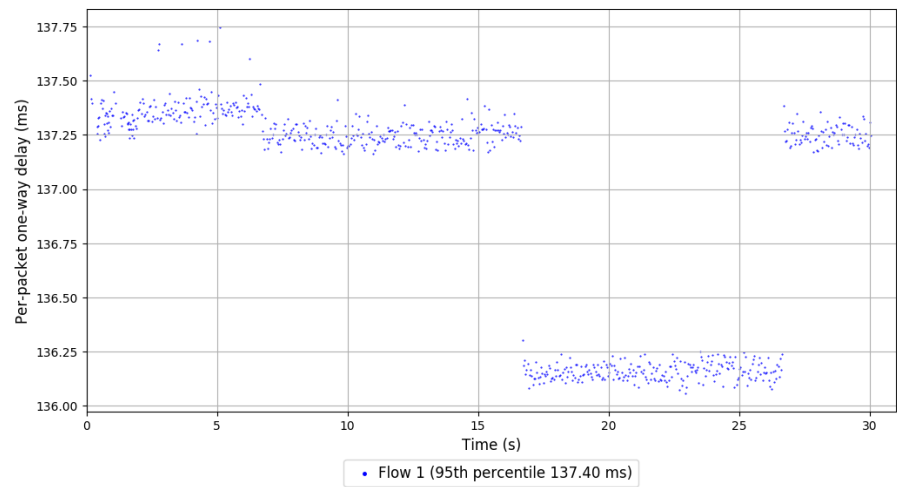
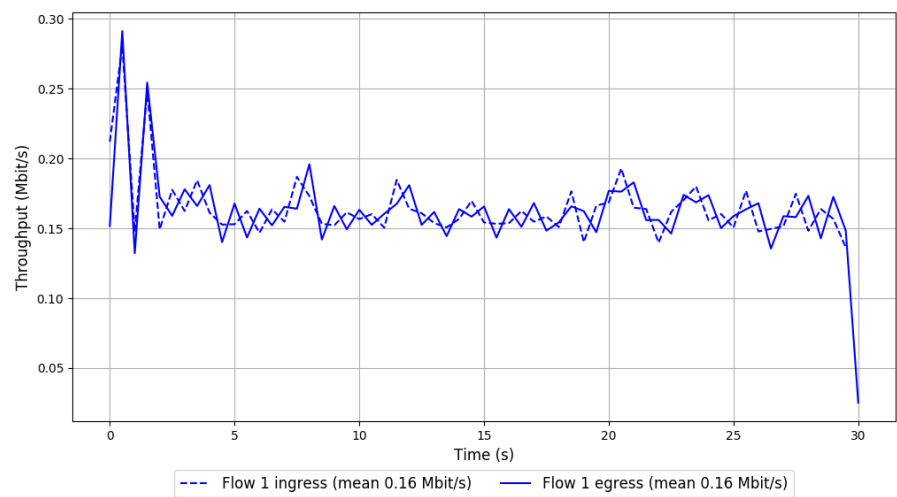


```
Run 2: Statistics of SCReAM

Start at: 2017-12-20 09:32:51
End at: 2017-12-20 09:33:21

# Below is generated by plot.py at 2017-12-20 12:42:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 137.396 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 137.396 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-20 09:45:56

End at: 2017-12-20 09:46:26

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.976 ms

Loss rate: 0.00%

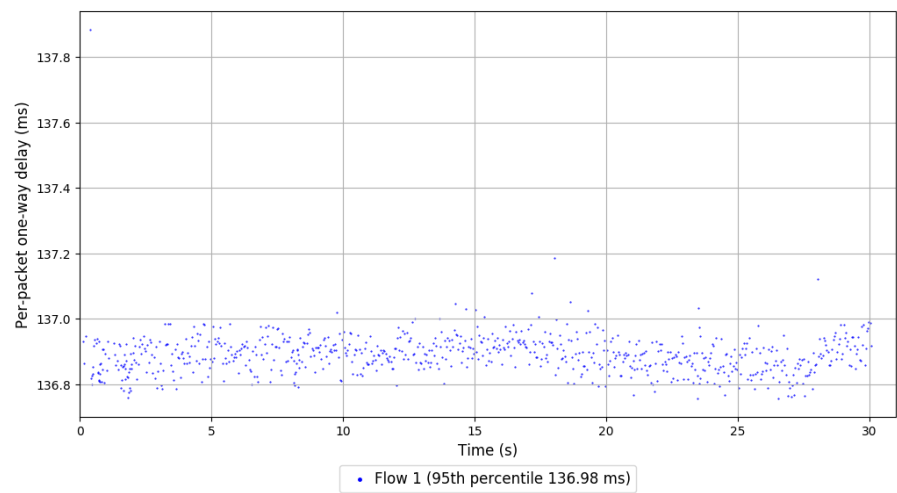
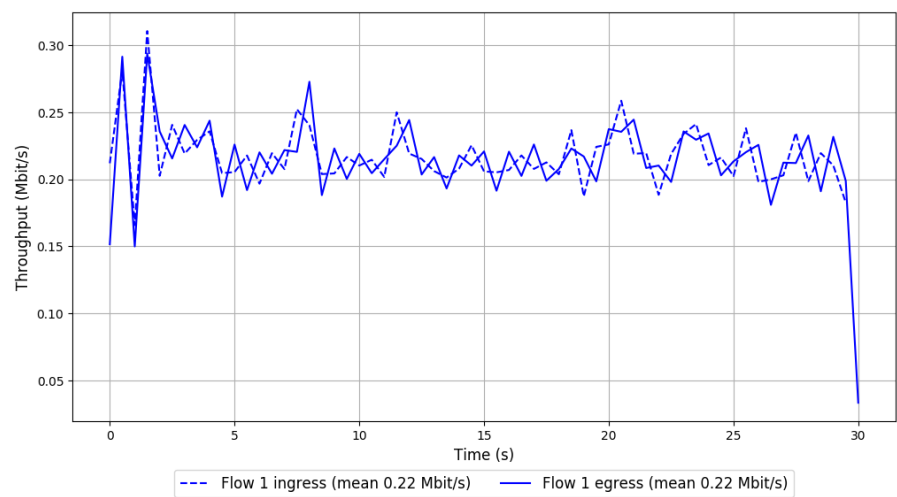
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.976 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-20 09:58:31

End at: 2017-12-20 09:59:01

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.776 ms

Loss rate: 0.00%

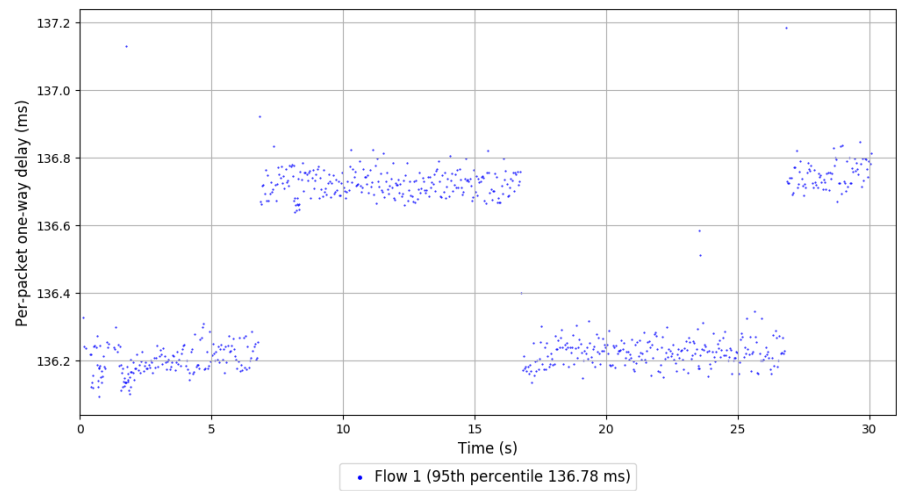
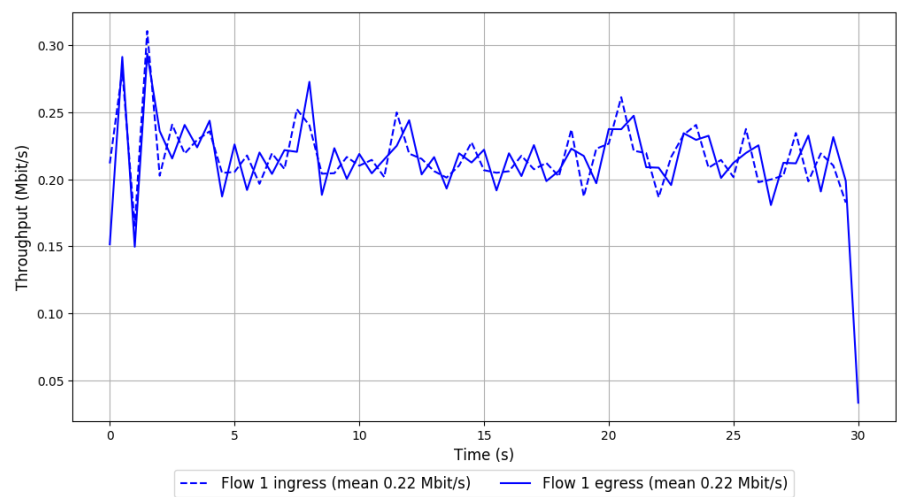
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.776 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-20 10:10:53

End at: 2017-12-20 10:11:23

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.963 ms

Loss rate: 0.00%

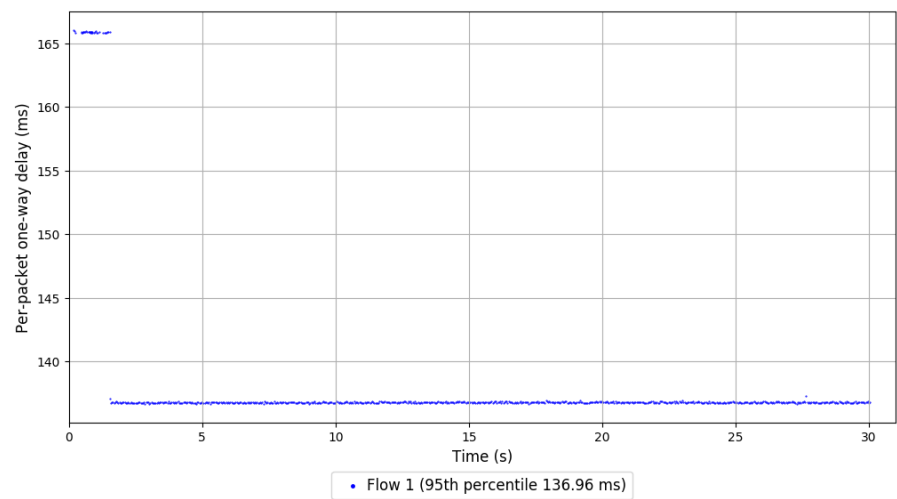
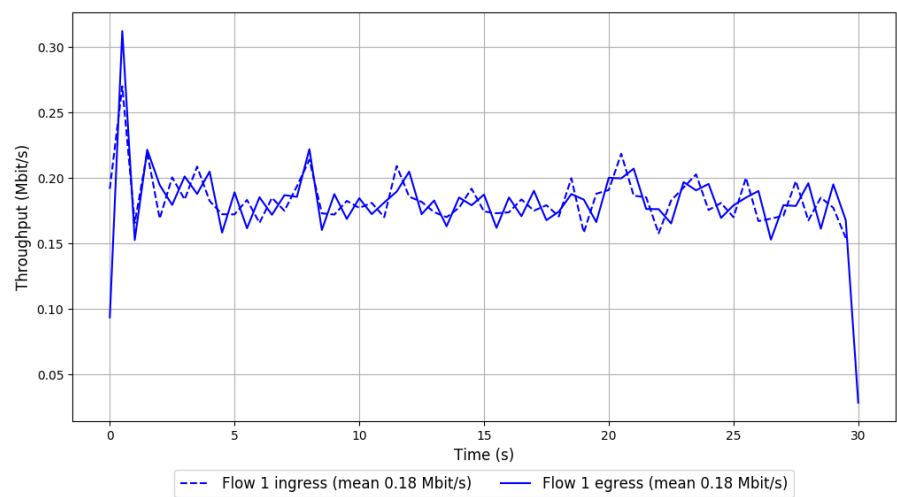
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.963 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-20 10:23:38

End at: 2017-12-20 10:24:08

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.152 ms

Loss rate: 0.00%

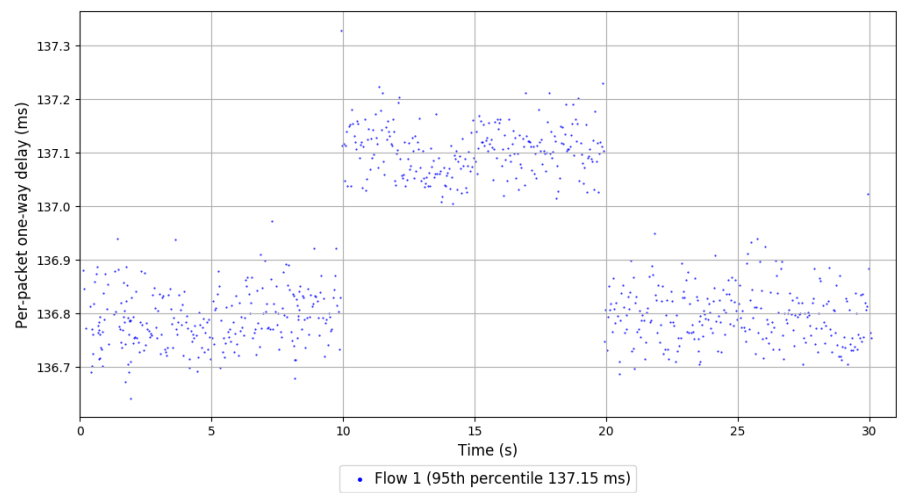
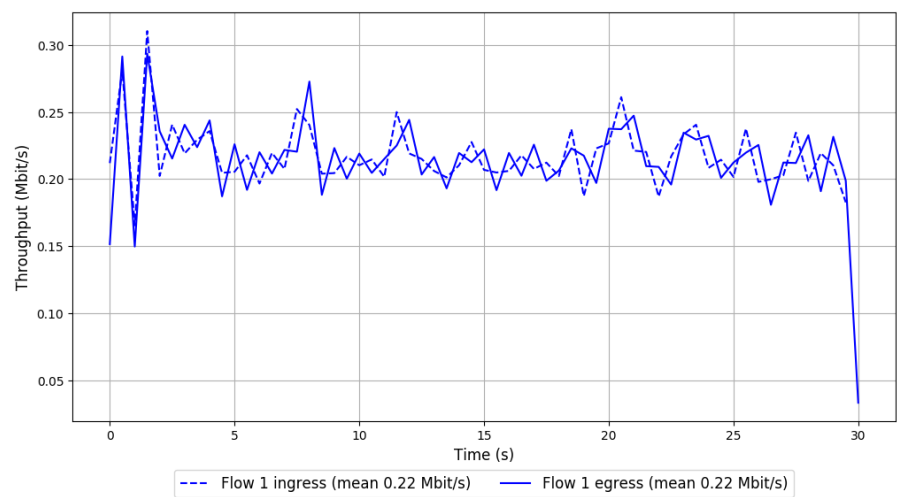
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.152 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-12-20 10:36:44

End at: 2017-12-20 10:37:14

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.220 ms

Loss rate: 0.00%

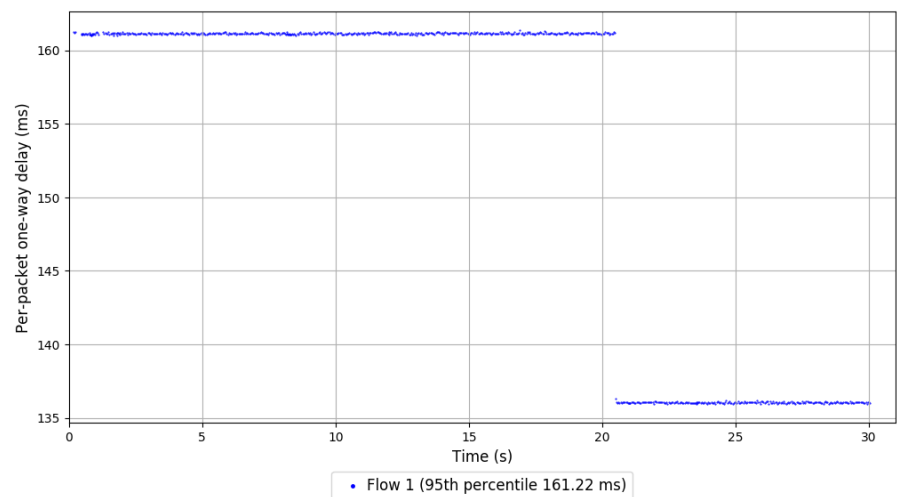
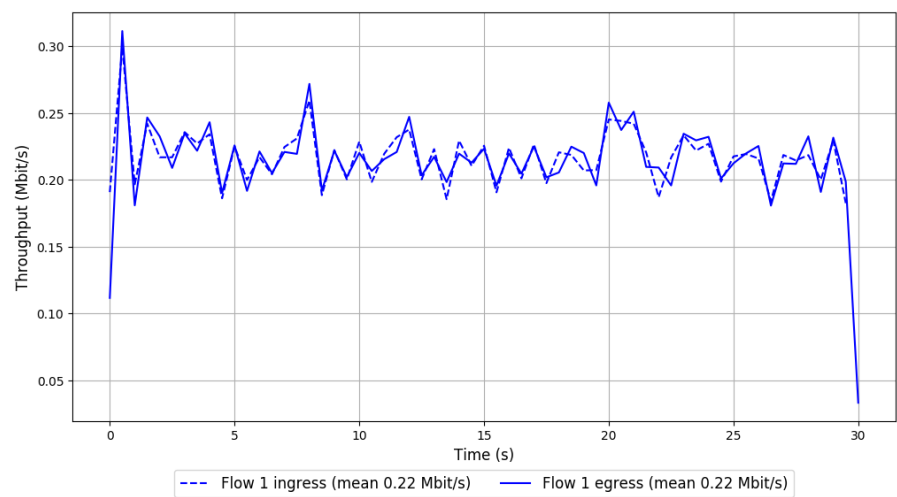
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 161.220 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-20 10:49:45

End at: 2017-12-20 10:50:15

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.393 ms

Loss rate: 0.00%

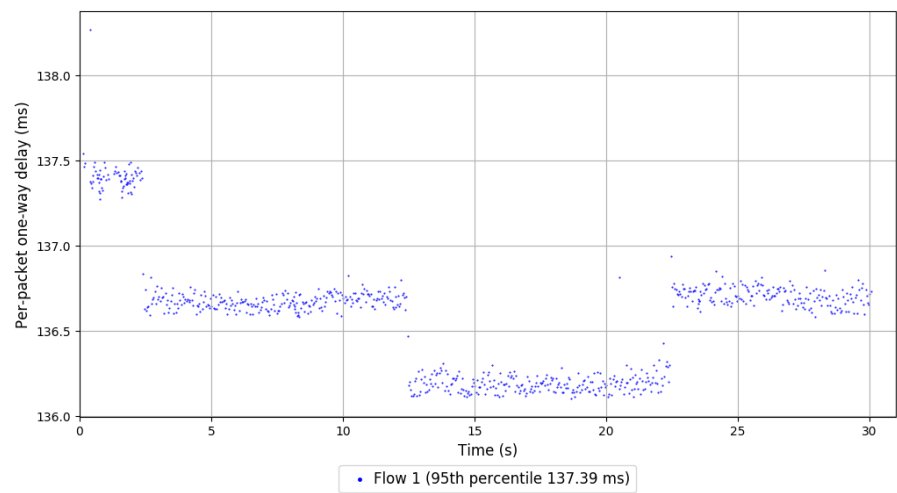
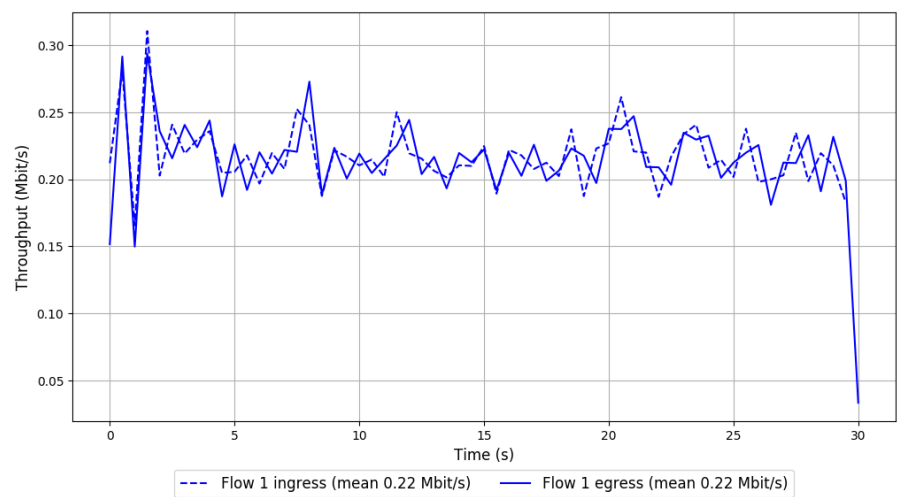
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.393 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-20 11:02:38

End at: 2017-12-20 11:03:08

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.793 ms

Loss rate: 0.00%

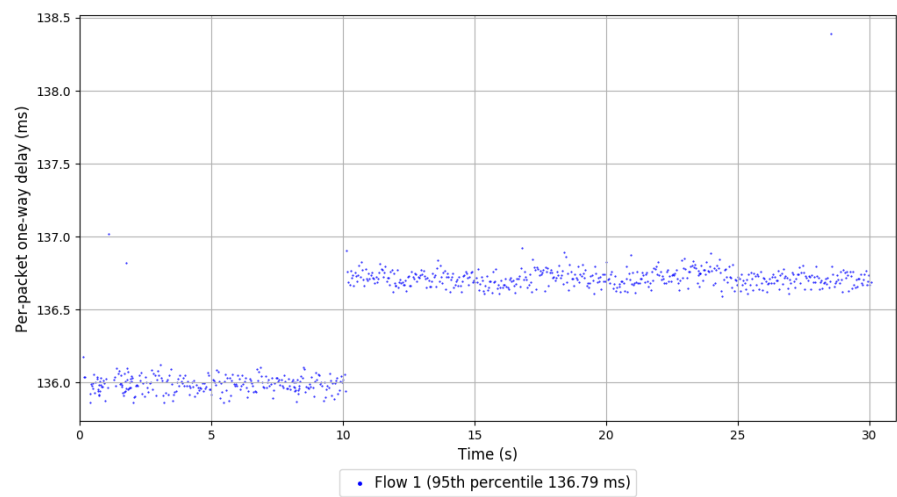
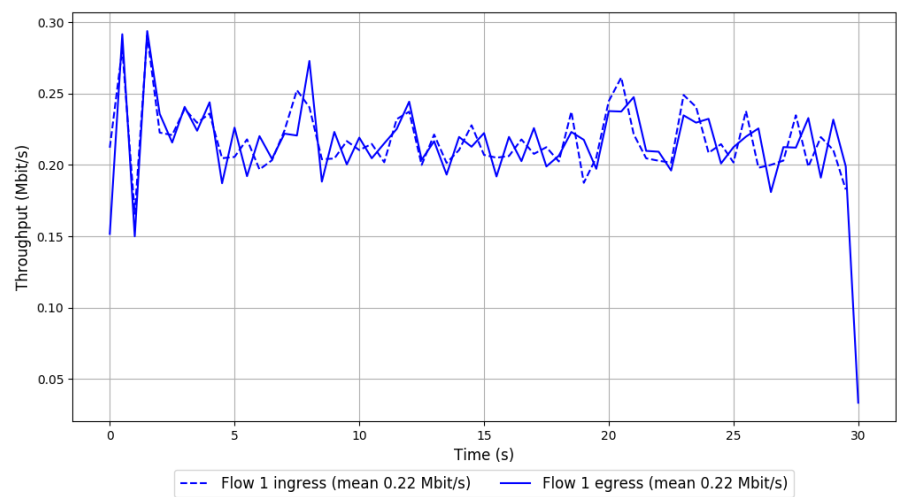
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.793 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-12-20 11:15:03

End at: 2017-12-20 11:15:33

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.838 ms

Loss rate: 0.00%

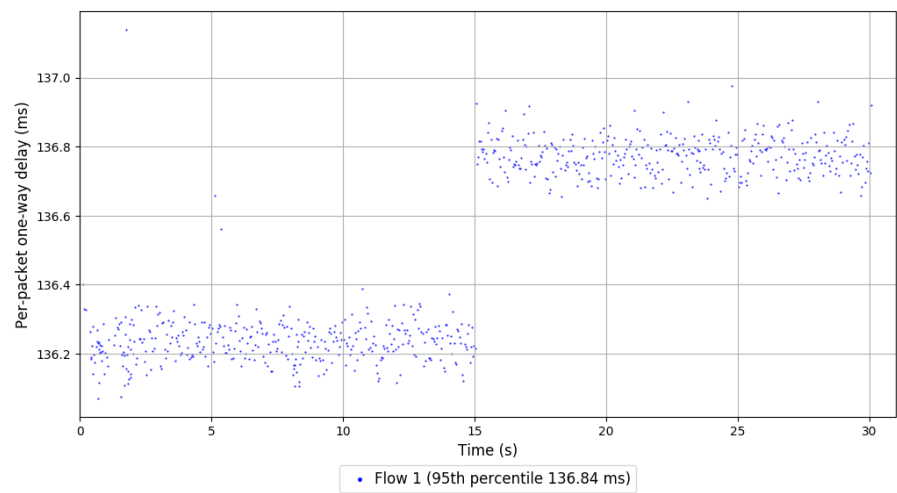
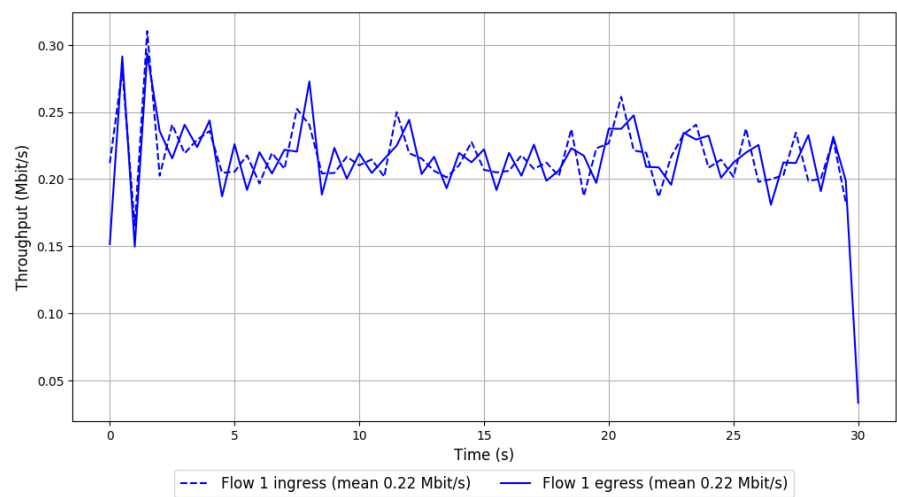
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.838 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

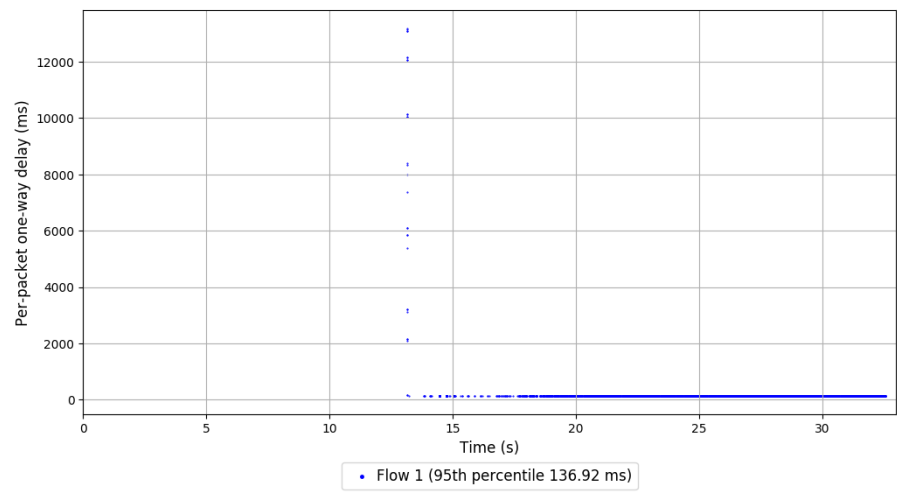
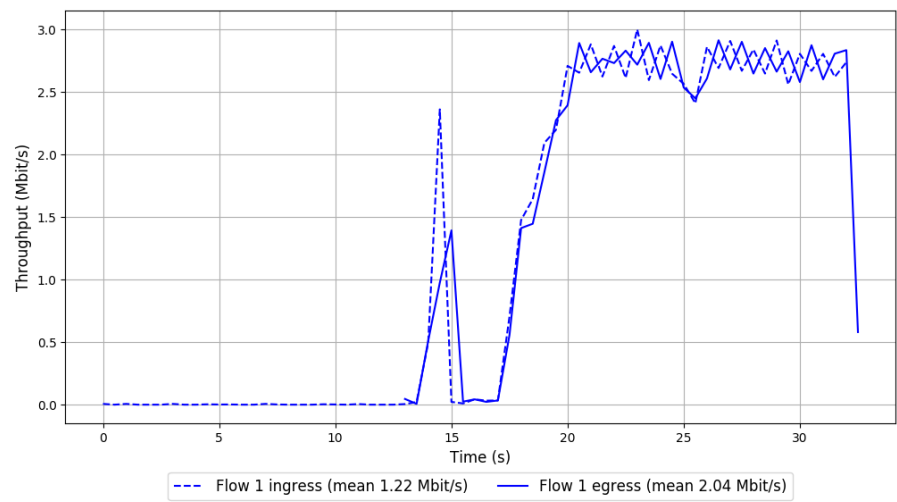


Run 1: Statistics of WebRTC media

Start at: 2017-12-20 09:31:21

End at: 2017-12-20 09:31:51

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-20 09:44:25

End at: 2017-12-20 09:44:56

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.620 ms

Loss rate: 0.00%

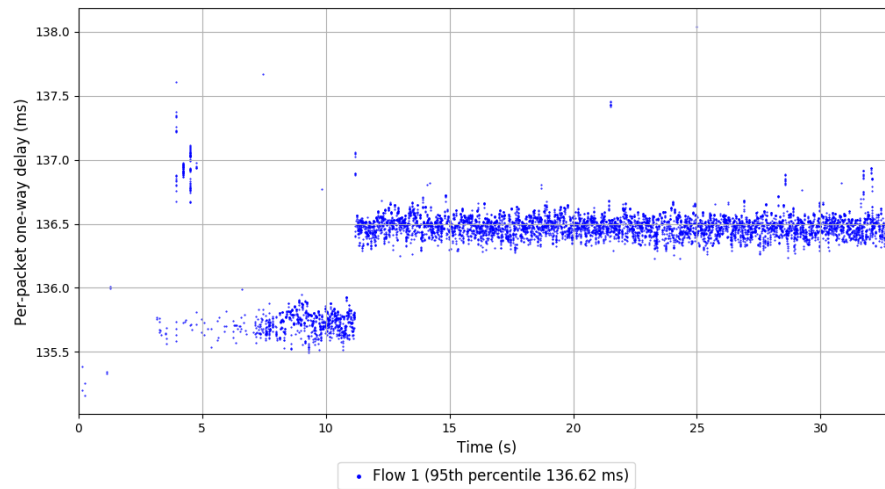
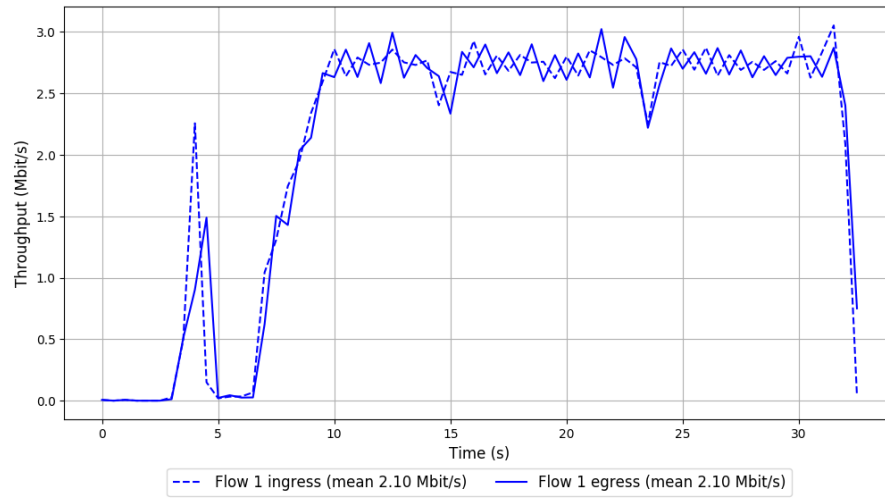
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.620 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-20 09:57:02

End at: 2017-12-20 09:57:32

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 162.212 ms

Loss rate: 0.00%

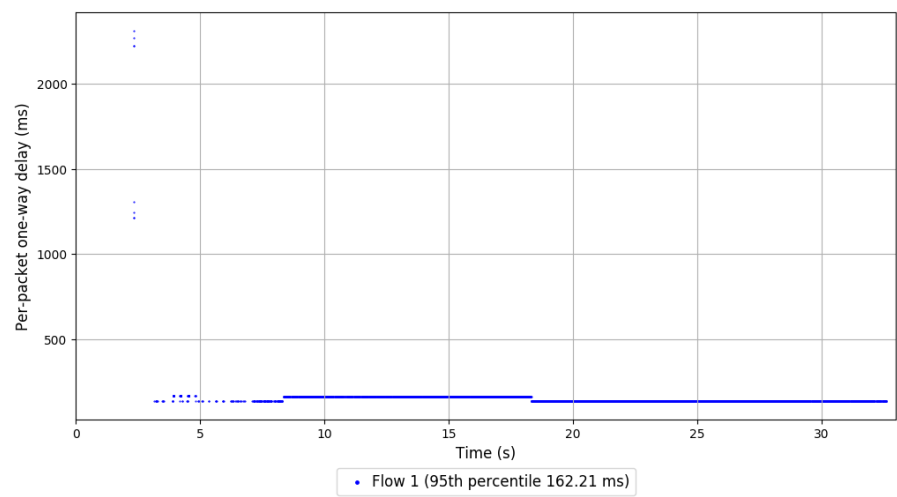
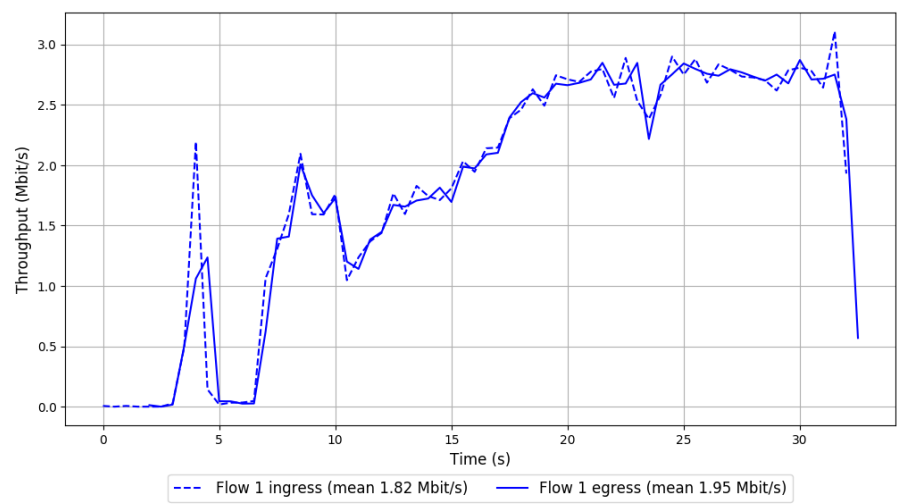
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 162.212 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-20 10:09:24

End at: 2017-12-20 10:09:54

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 137.372 ms

Loss rate: 0.00%

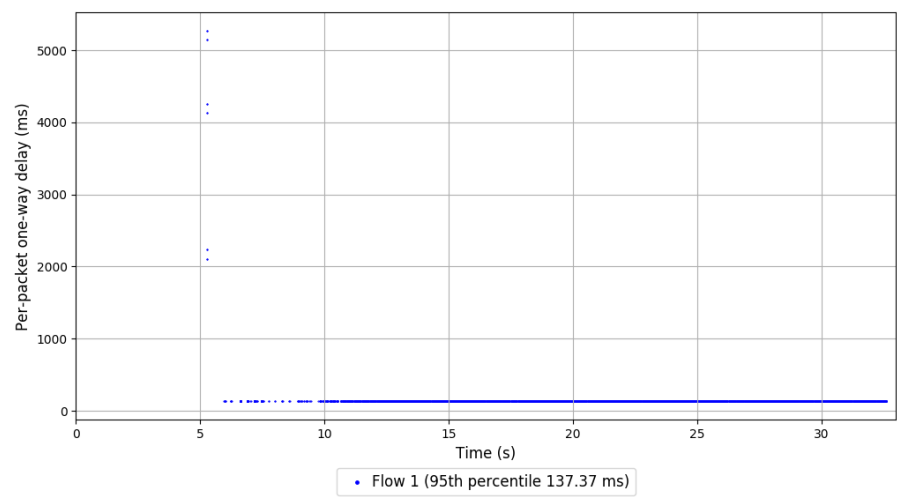
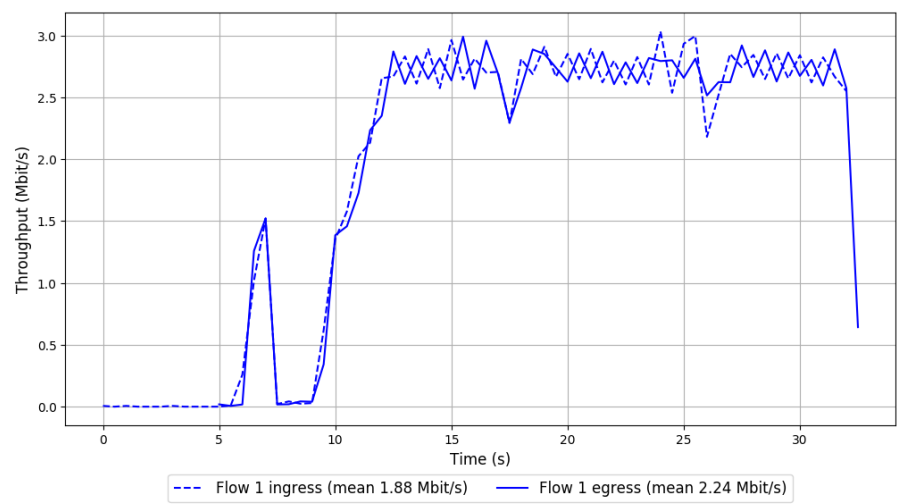
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 137.372 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-20 10:22:09

End at: 2017-12-20 10:22:39

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.549 ms

Loss rate: 0.00%

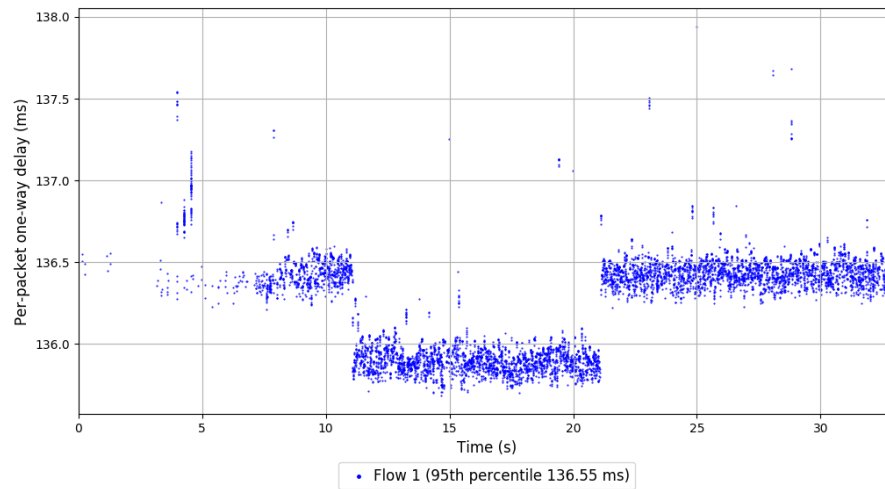
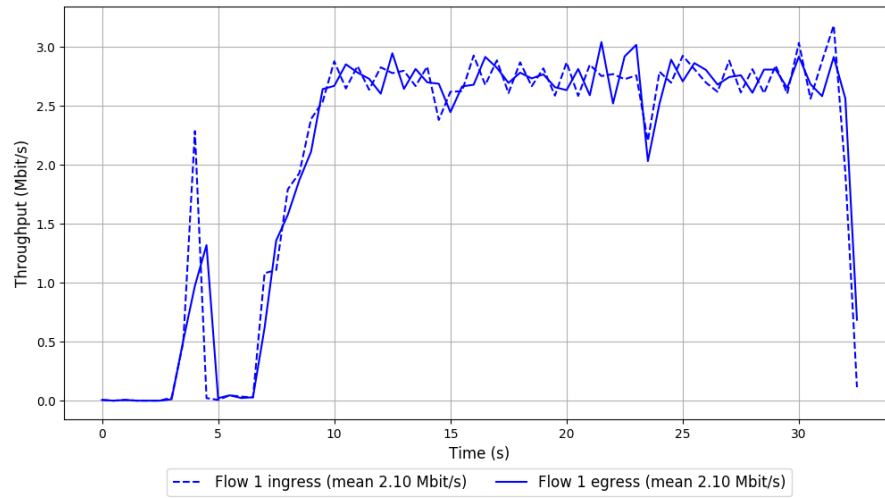
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.549 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-20 10:35:16

End at: 2017-12-20 10:35:46

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.476 ms

Loss rate: 0.00%

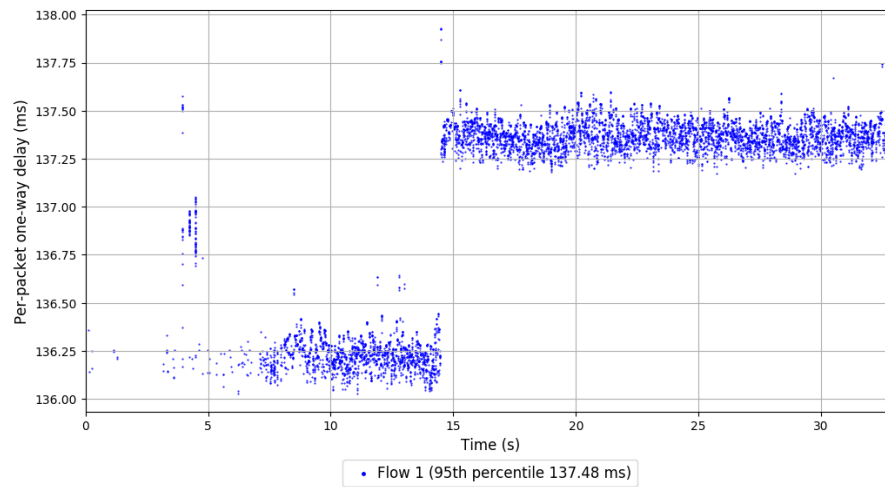
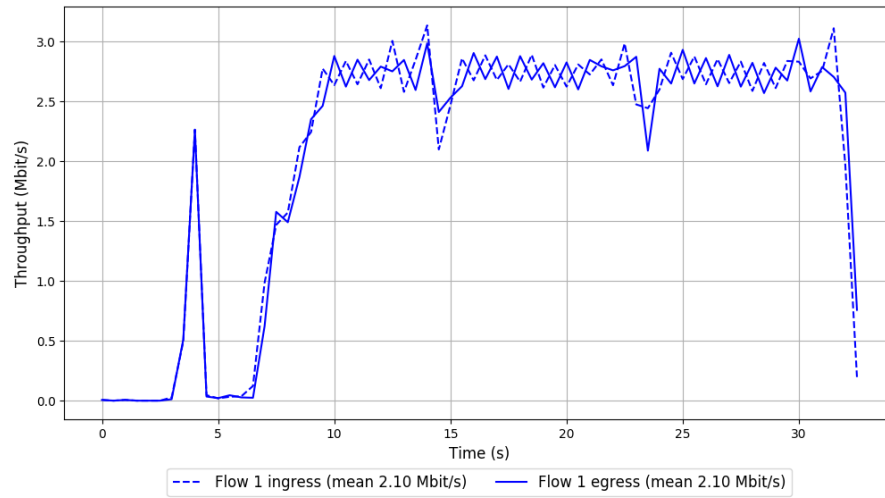
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.476 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-20 10:48:14

End at: 2017-12-20 10:48:44

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.471 ms

Loss rate: 0.00%

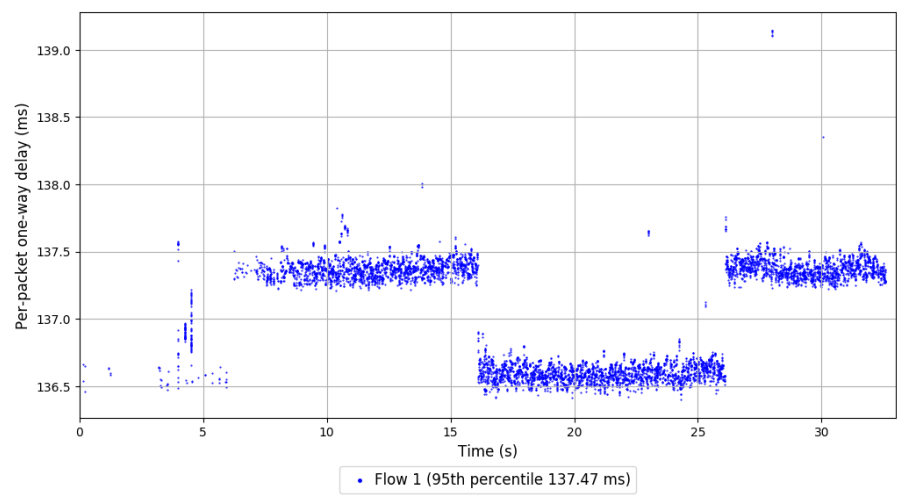
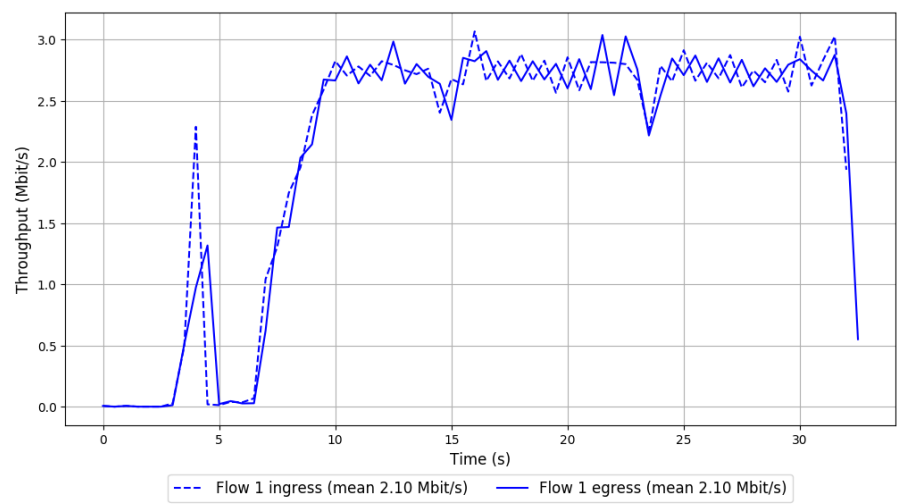
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.471 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-20 11:01:08

End at: 2017-12-20 11:01:38

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 137.627 ms

Loss rate: 0.00%

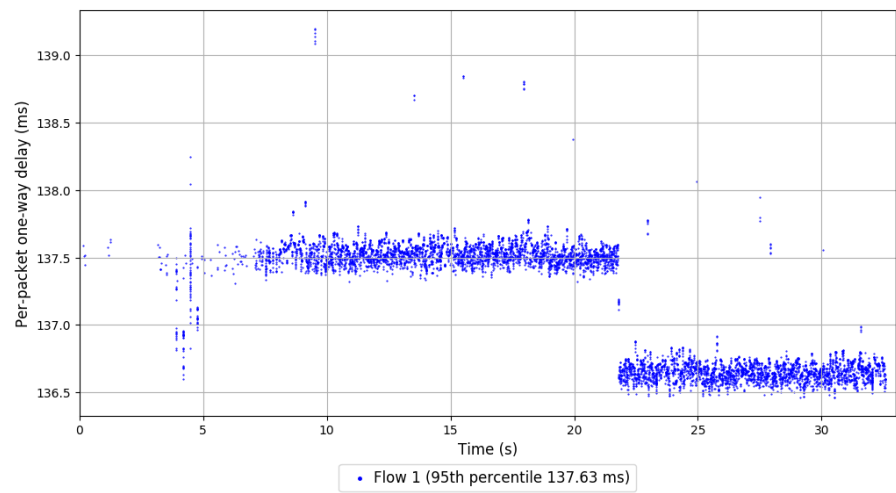
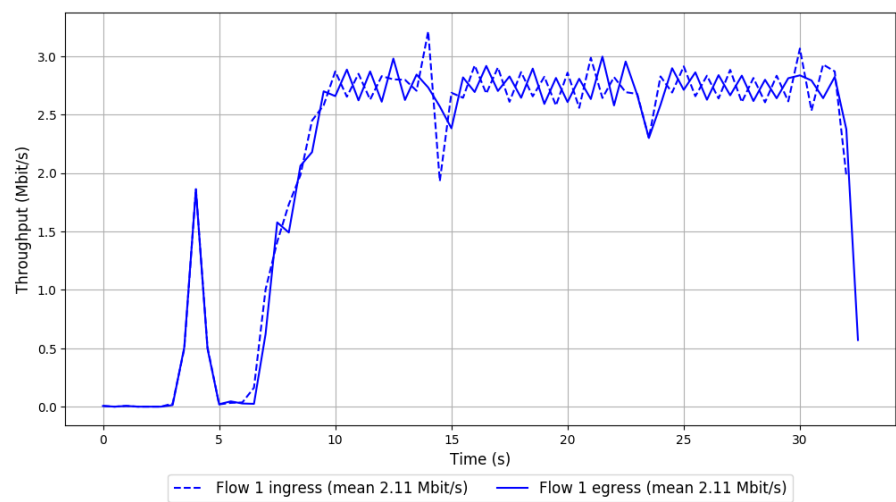
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 137.627 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-20 11:13:33

End at: 2017-12-20 11:14:03

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 162.921 ms

Loss rate: 0.00%

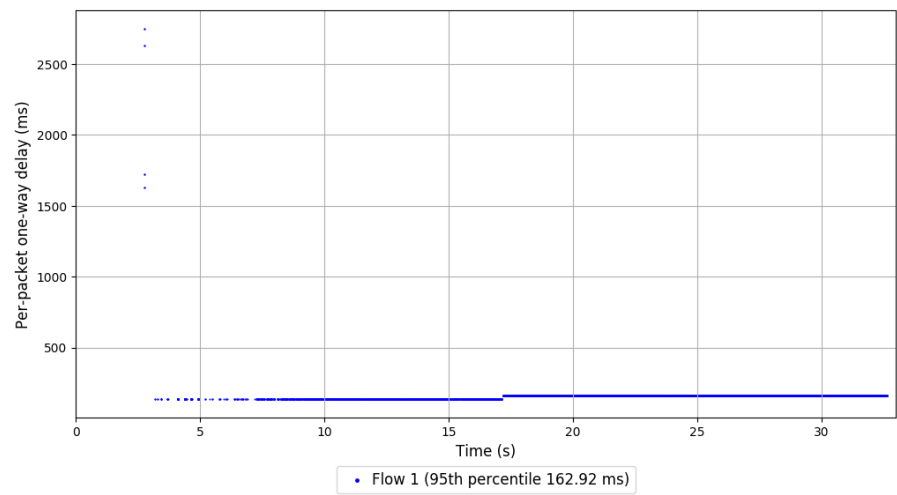
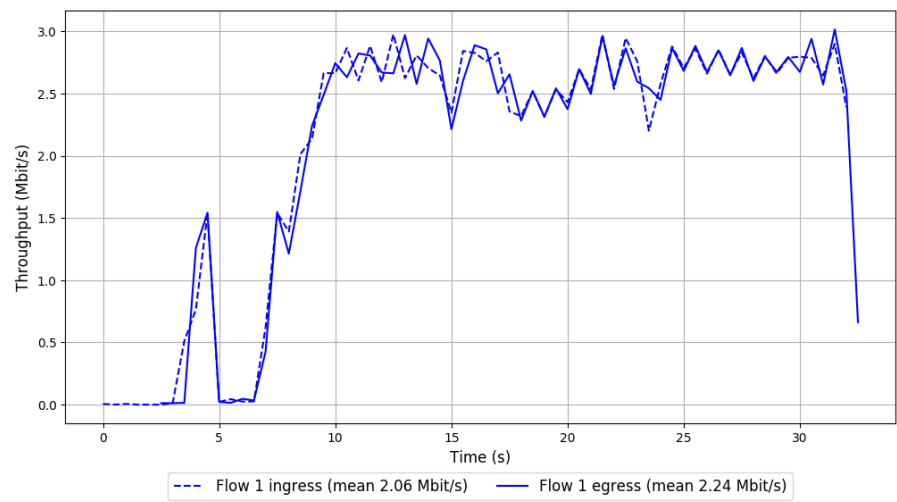
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 162.921 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-20 11:25:56

End at: 2017-12-20 11:26:26

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 137.384 ms

Loss rate: 0.00%

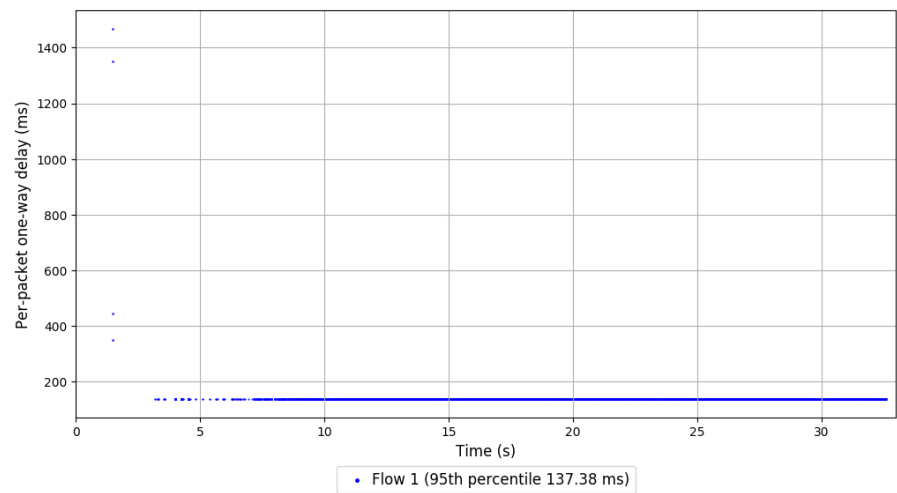
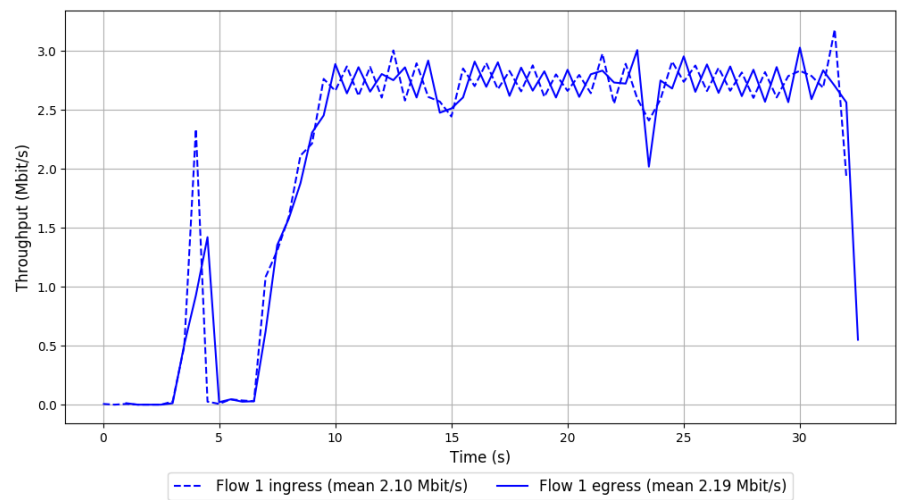
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 137.384 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-20 09:29:46

End at: 2017-12-20 09:30:16

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 0.00%

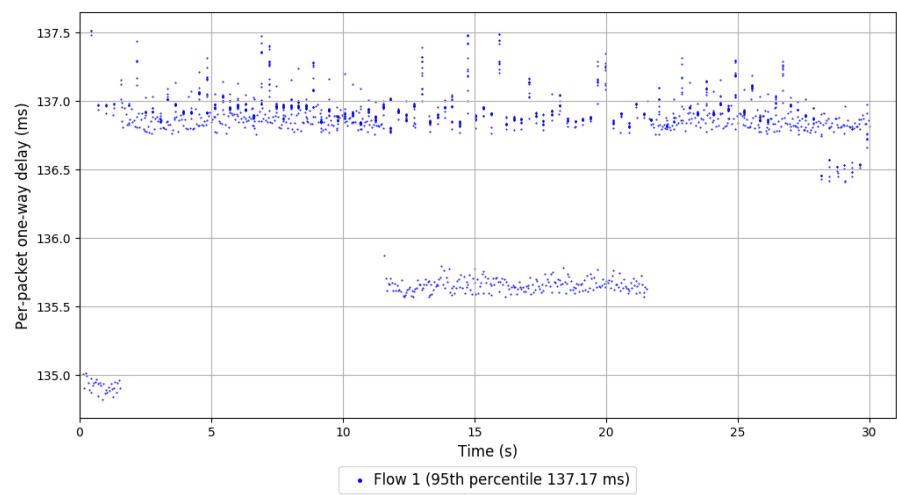
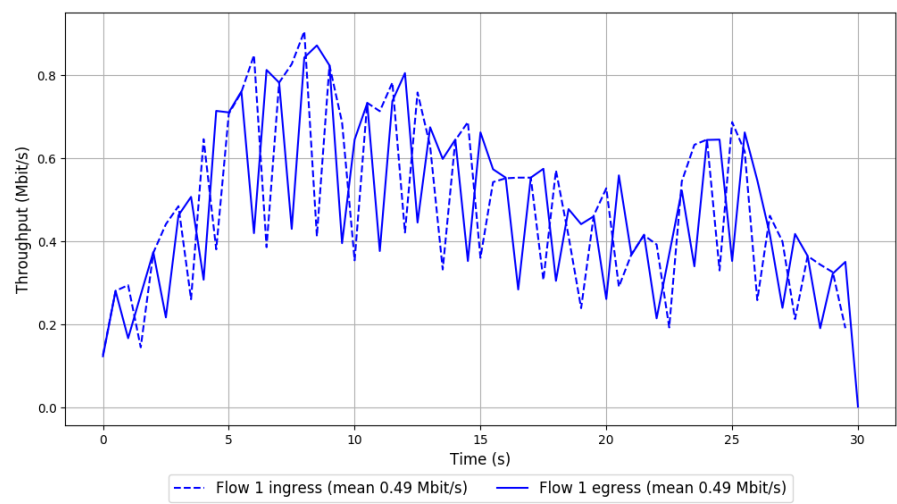
-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-20 09:42:50

End at: 2017-12-20 09:43:20

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

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

Loss rate: 0.00%

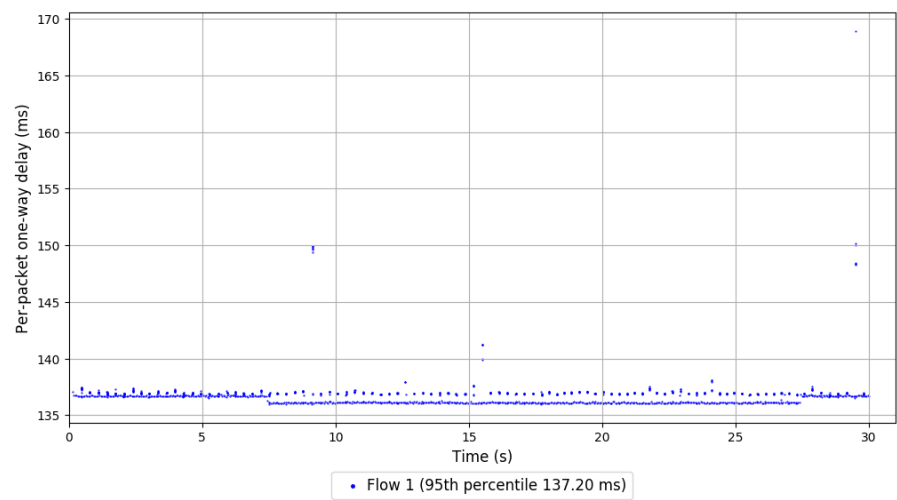
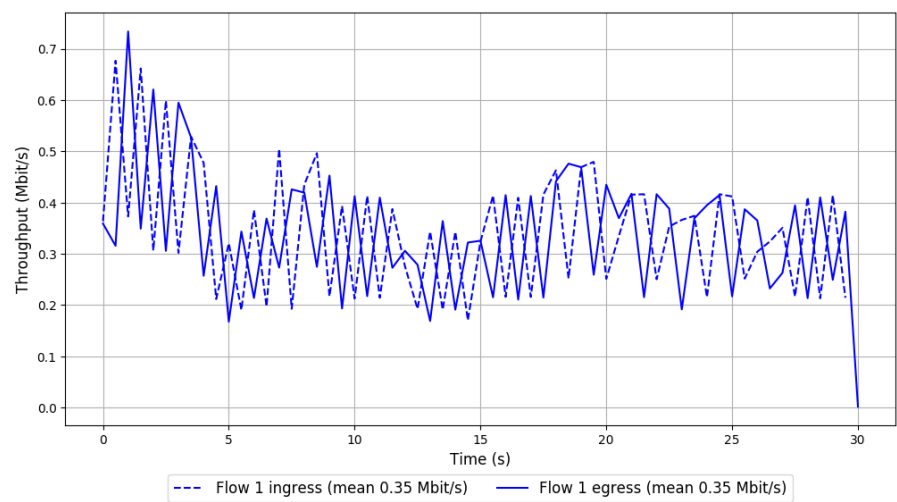
-- Flow 1:

Average throughput: 0.35 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-20 09:55:26

End at: 2017-12-20 09:55:56

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.207 ms

Loss rate: 0.00%

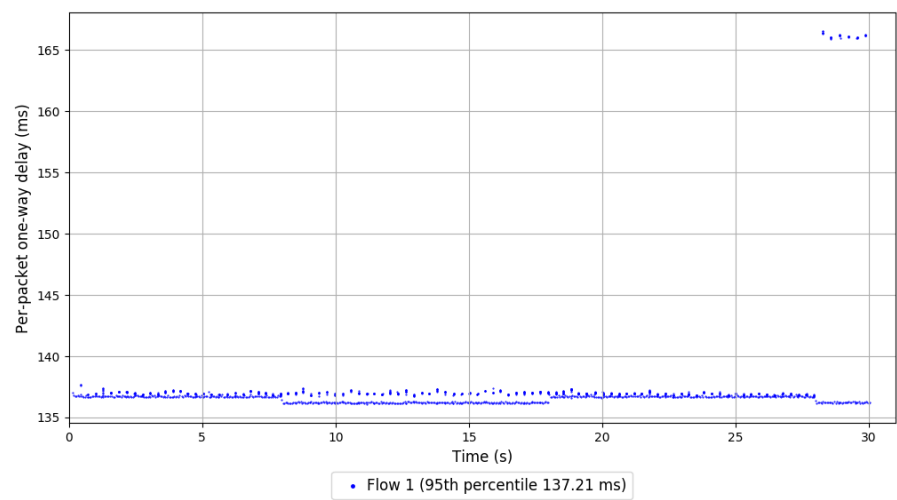
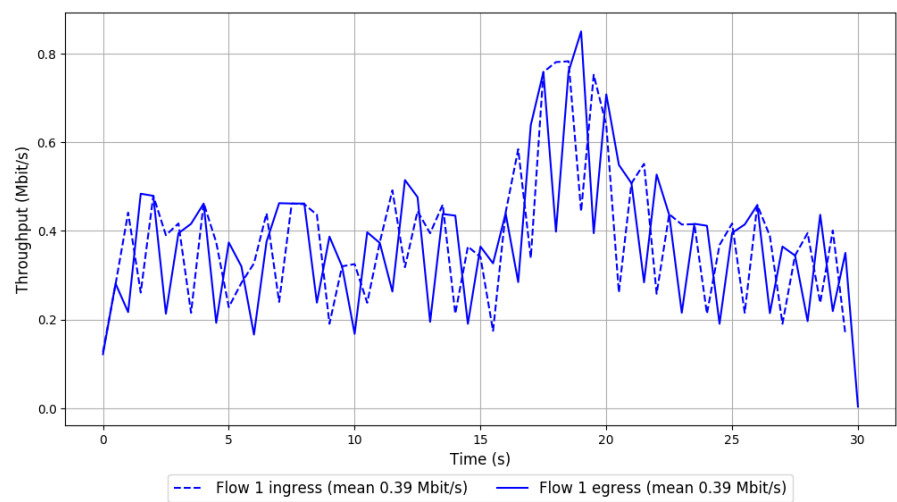
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.207 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-20 10:07:49

End at: 2017-12-20 10:08:19

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 166.055 ms

Loss rate: 0.00%

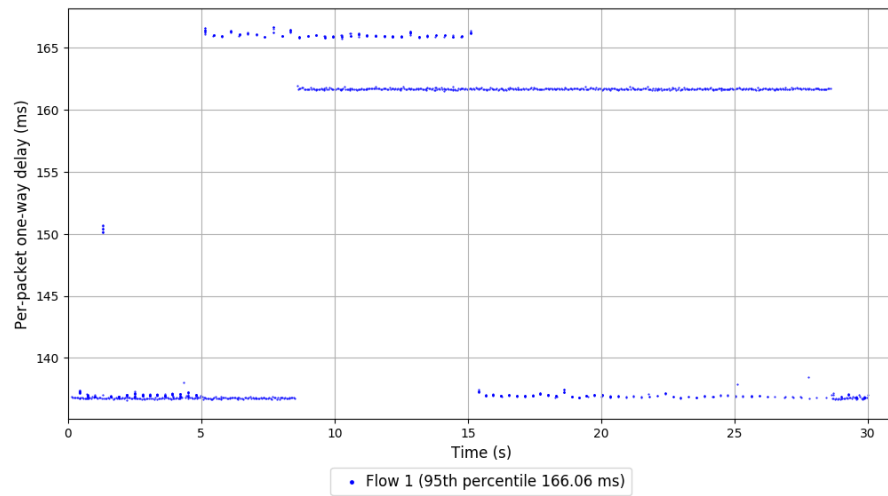
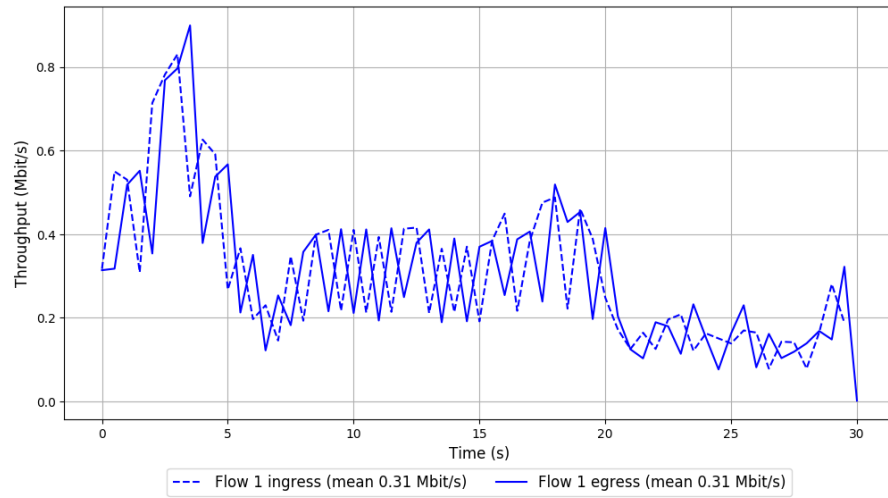
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 166.055 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-20 10:20:33

End at: 2017-12-20 10:21:03

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.441 ms

Loss rate: 0.00%

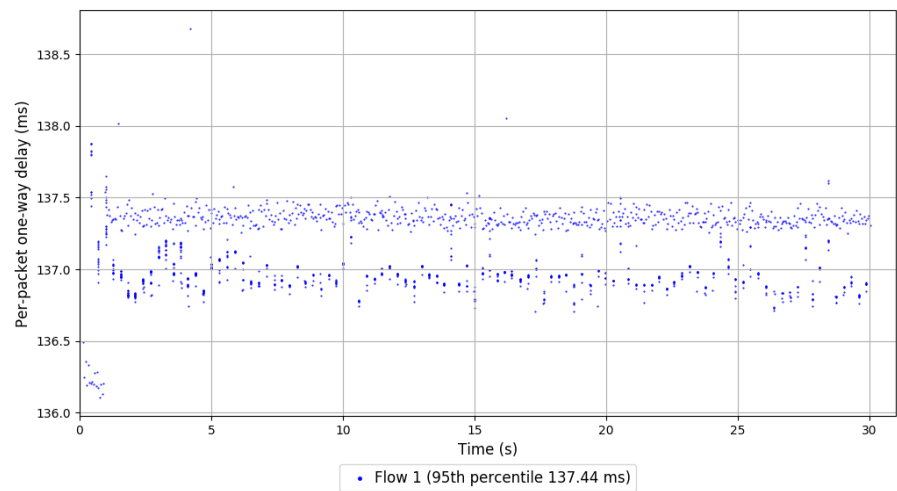
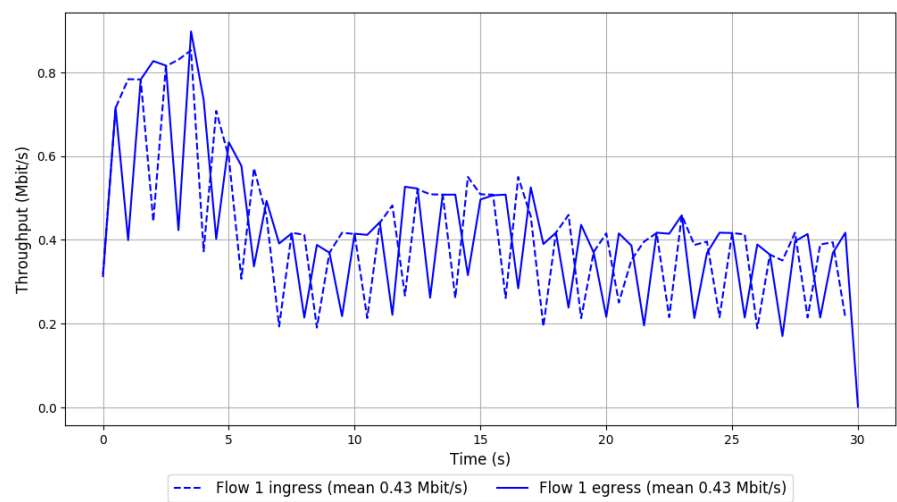
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.441 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-20 10:33:40

End at: 2017-12-20 10:34:10

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 161.255 ms

Loss rate: 0.00%

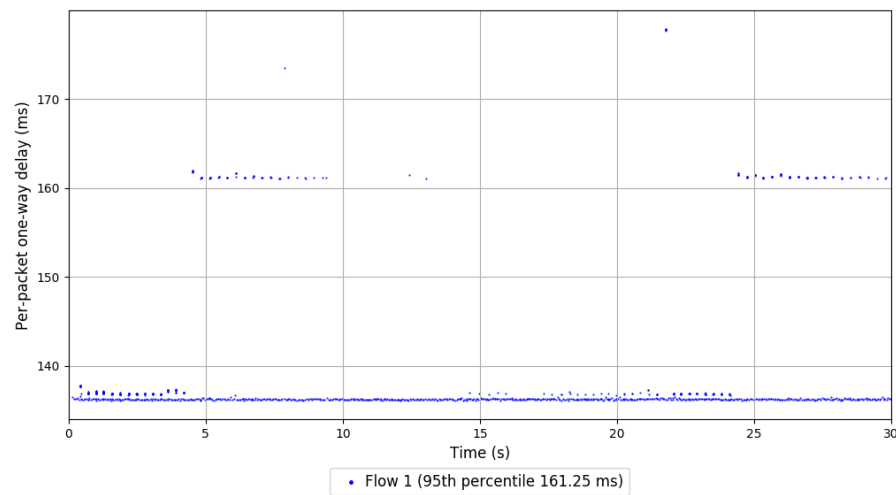
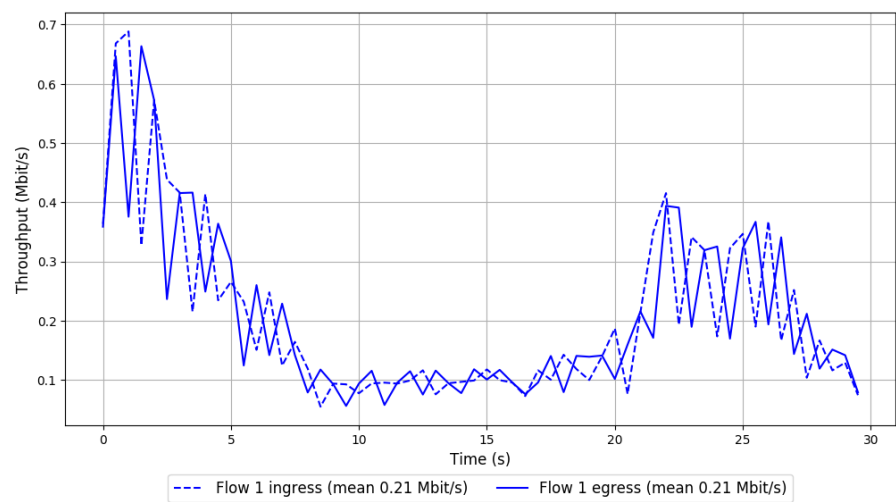
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 161.255 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-20 10:46:39

End at: 2017-12-20 10:47:09

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 162.645 ms

Loss rate: 0.00%

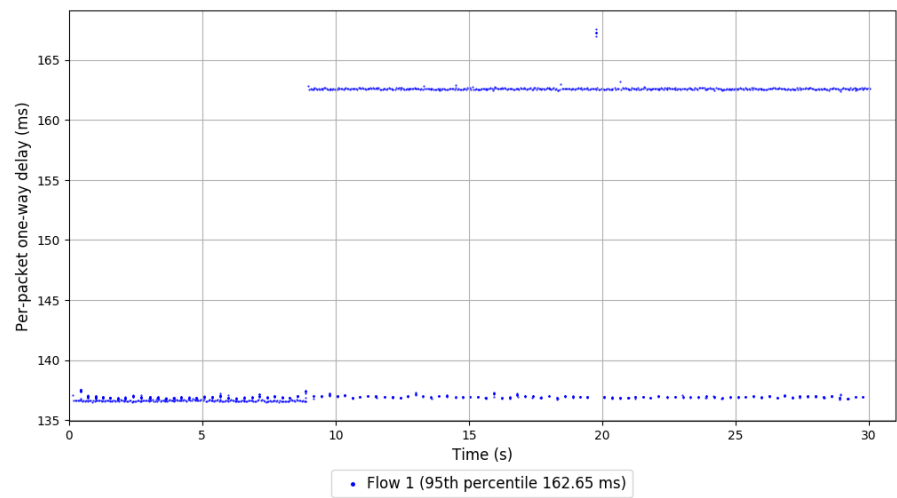
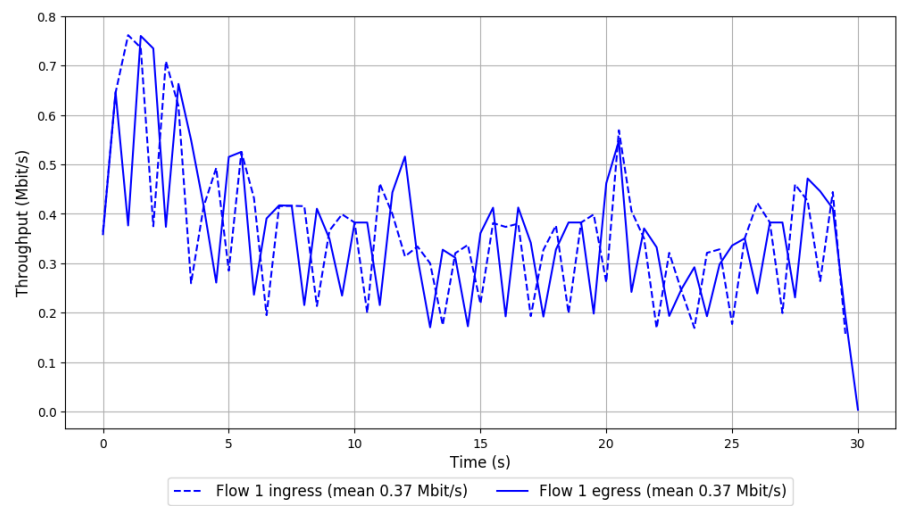
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 162.645 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-20 10:59:33

End at: 2017-12-20 11:00:03

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 161.241 ms

Loss rate: 0.00%

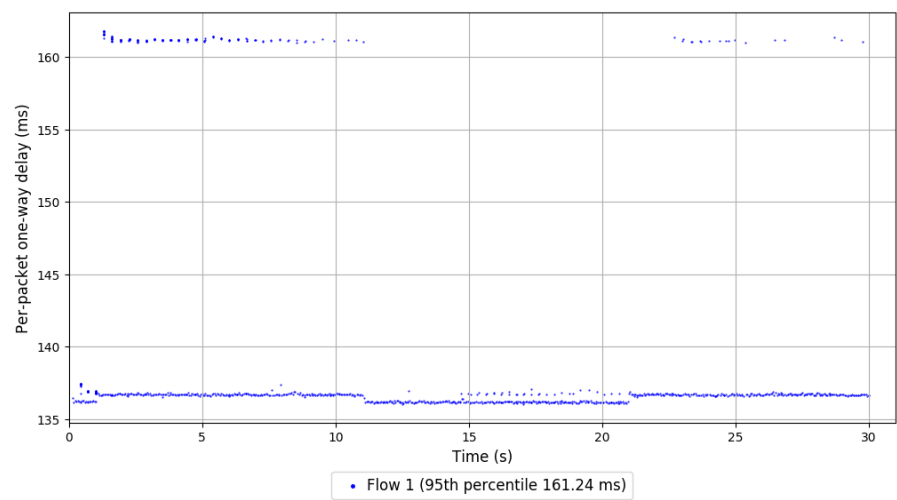
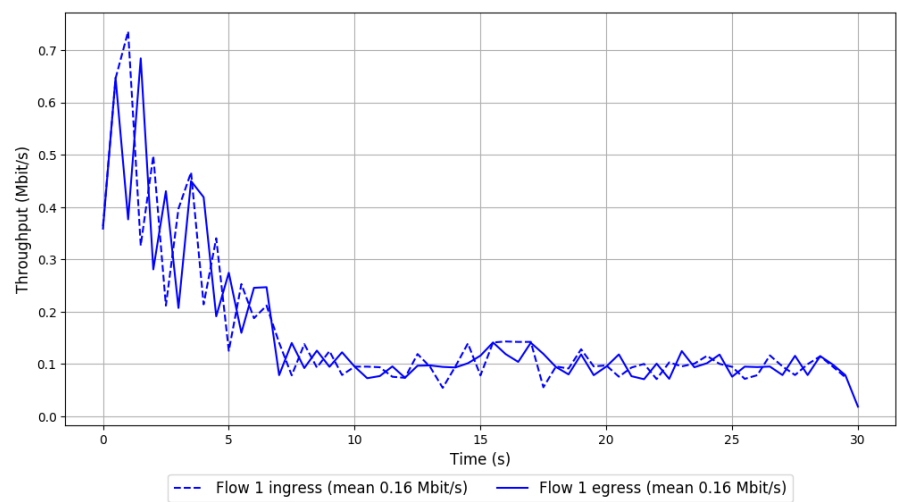
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 161.241 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-20 11:11:57

End at: 2017-12-20 11:12:27

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 137.462 ms

Loss rate: 0.00%

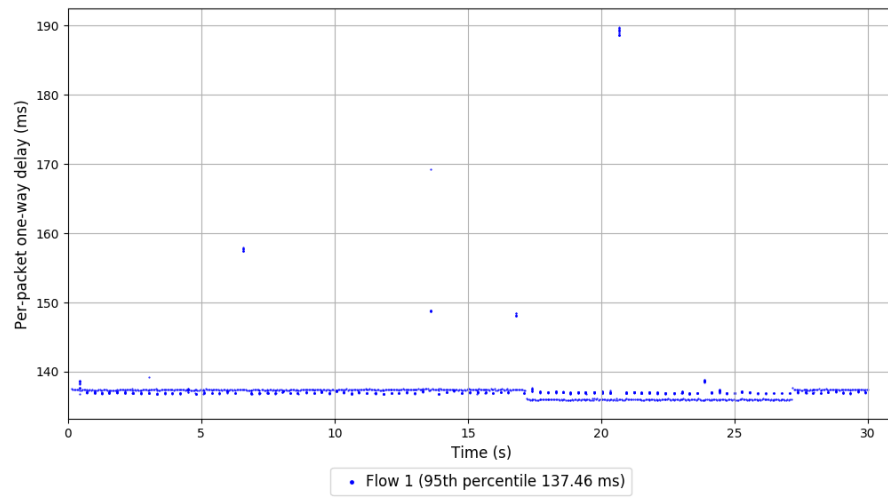
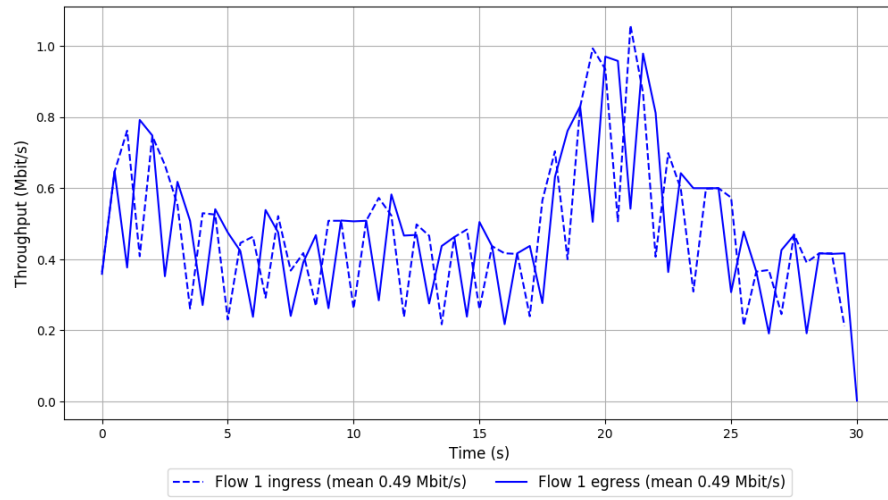
-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 137.462 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-20 11:24:21

End at: 2017-12-20 11:24:51

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.364 ms

Loss rate: 0.00%

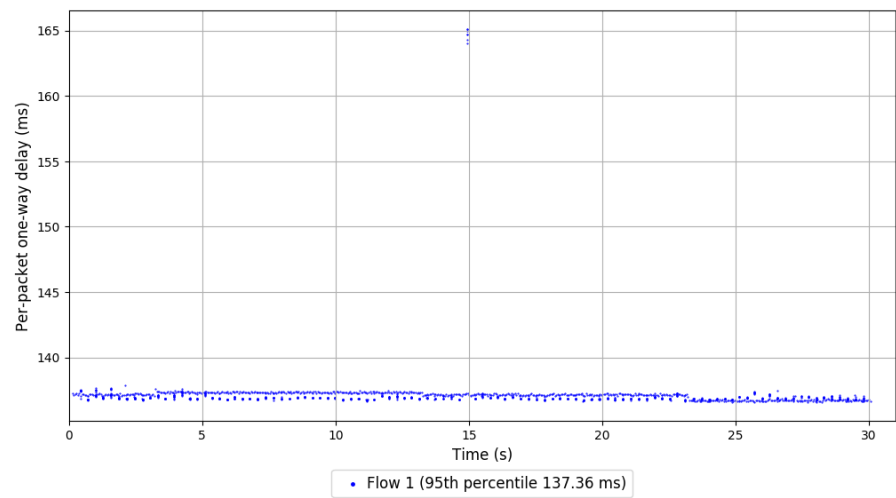
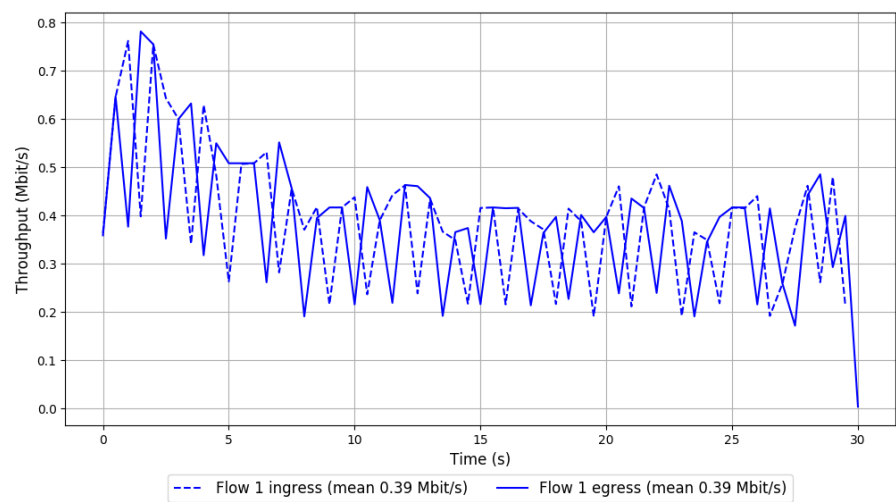
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.364 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

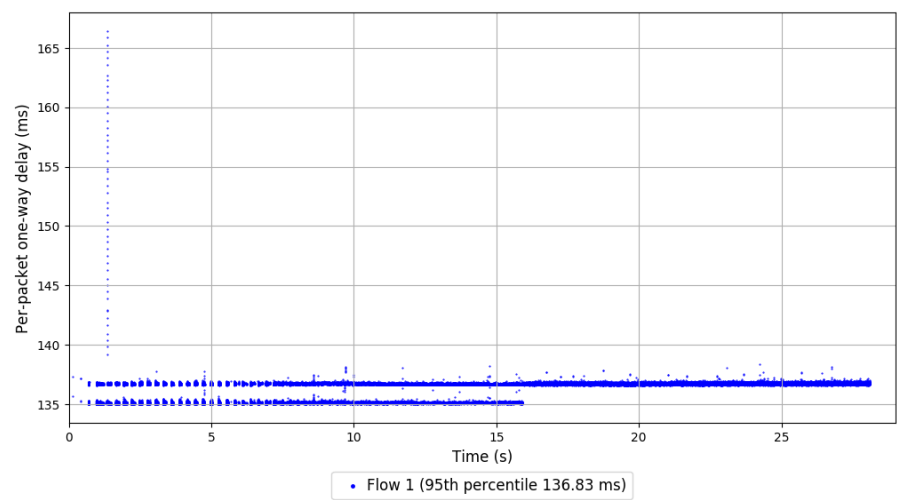
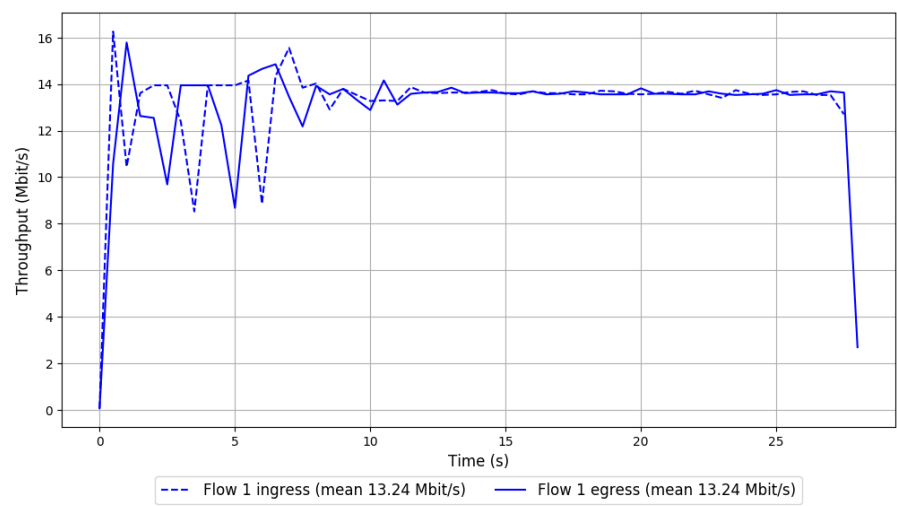


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-20 09:21:50
End at: 2017-12-20 09:22:20

# Below is generated by plot.py at 2017-12-20 12:42:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 136.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 136.830 ms
Loss rate: 0.00%
```


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

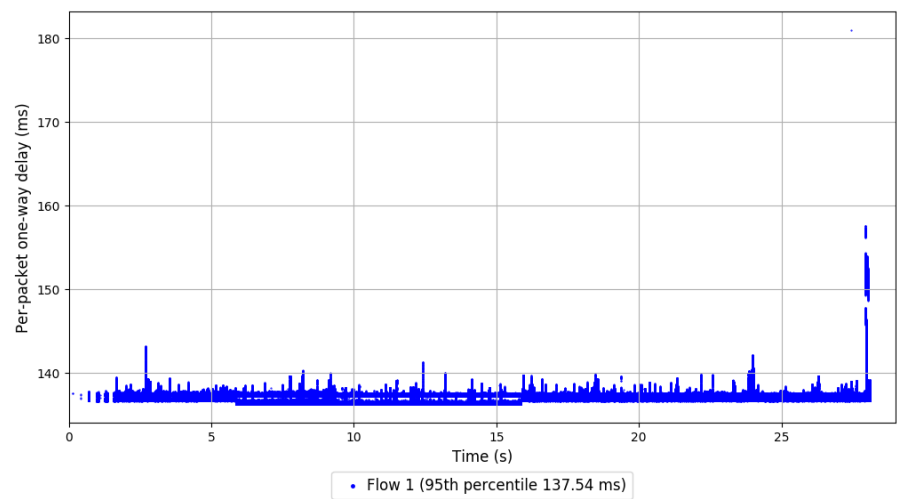
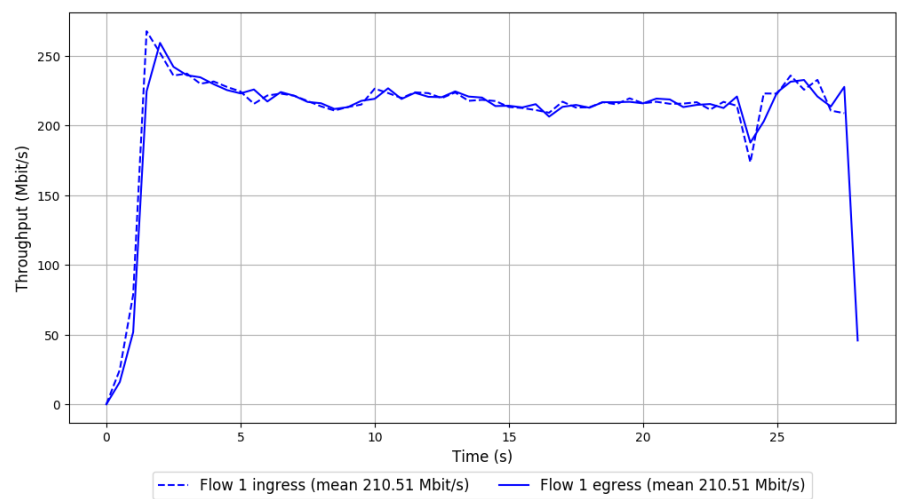


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-20 09:34:16
End at: 2017-12-20 09:34:46

# Below is generated by plot.py at 2017-12-20 12:42:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.51 Mbit/s
95th percentile per-packet one-way delay: 137.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.51 Mbit/s
95th percentile per-packet one-way delay: 137.538 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-20 09:47:21

End at: 2017-12-20 09:47:51

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.46 Mbit/s

95th percentile per-packet one-way delay: 137.479 ms

Loss rate: 0.32%

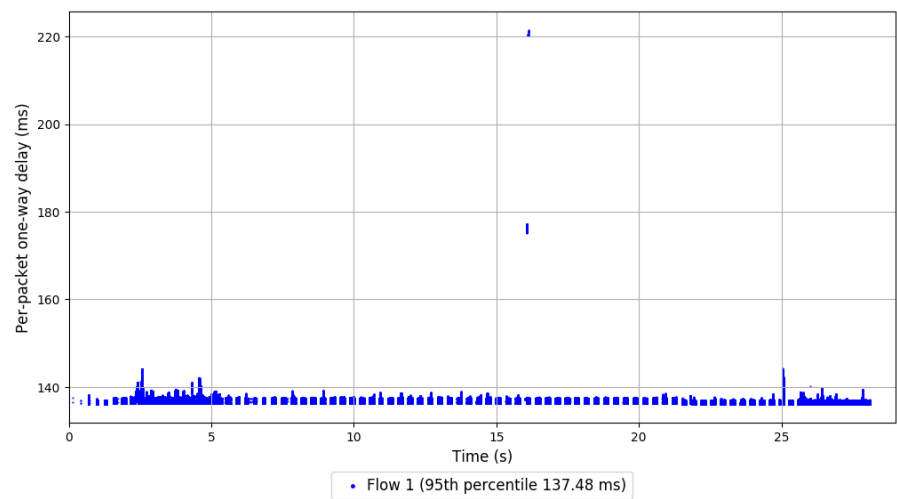
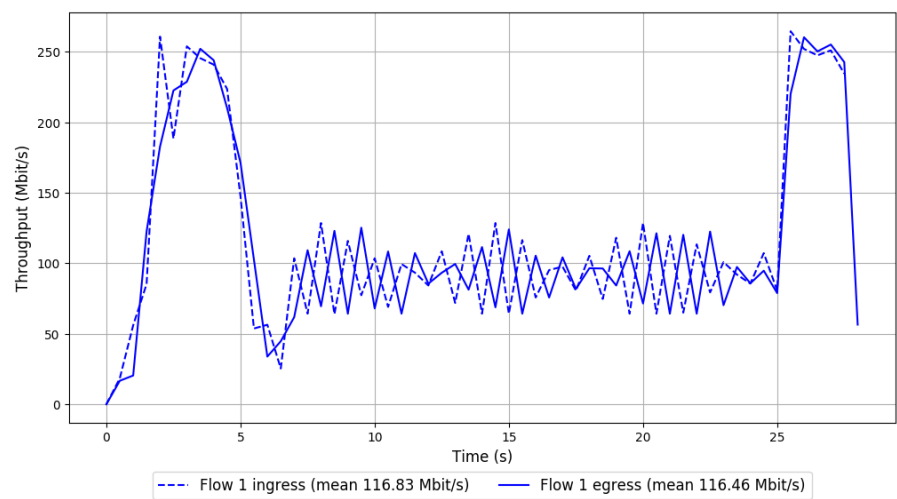
-- Flow 1:

Average throughput: 116.46 Mbit/s

95th percentile per-packet one-way delay: 137.479 ms

Loss rate: 0.32%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-20 09:59:56

End at: 2017-12-20 10:00:26

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 136.818 ms

Loss rate: 0.00%

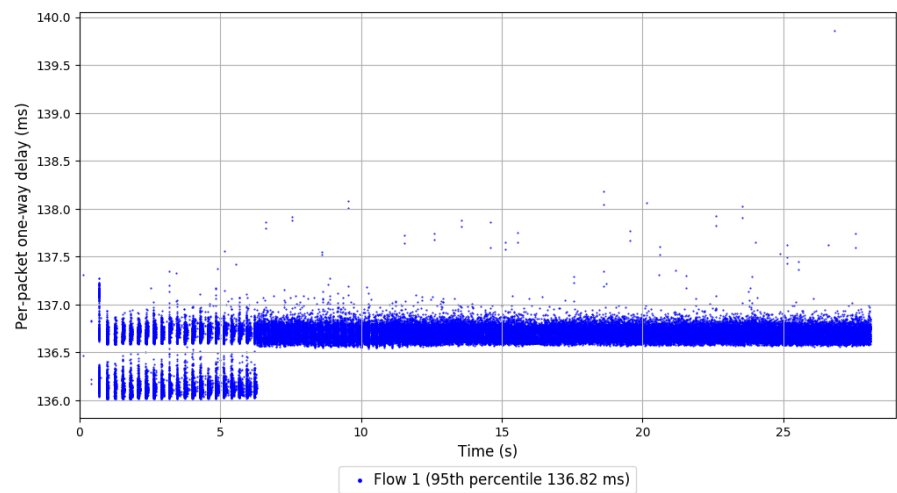
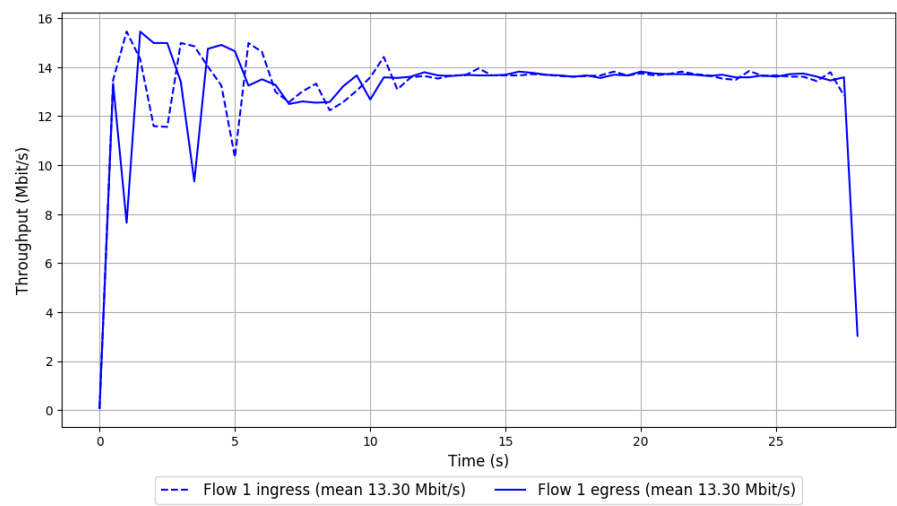
-- Flow 1:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 136.818 ms

Loss rate: 0.00%

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

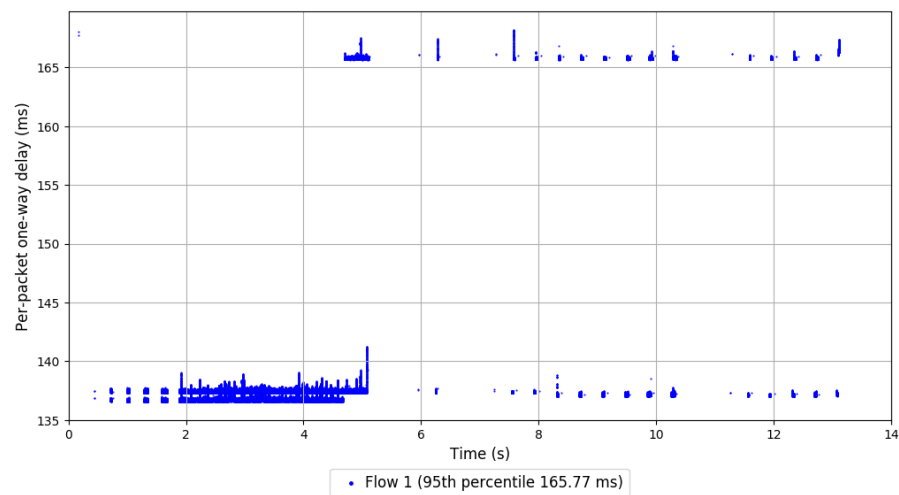
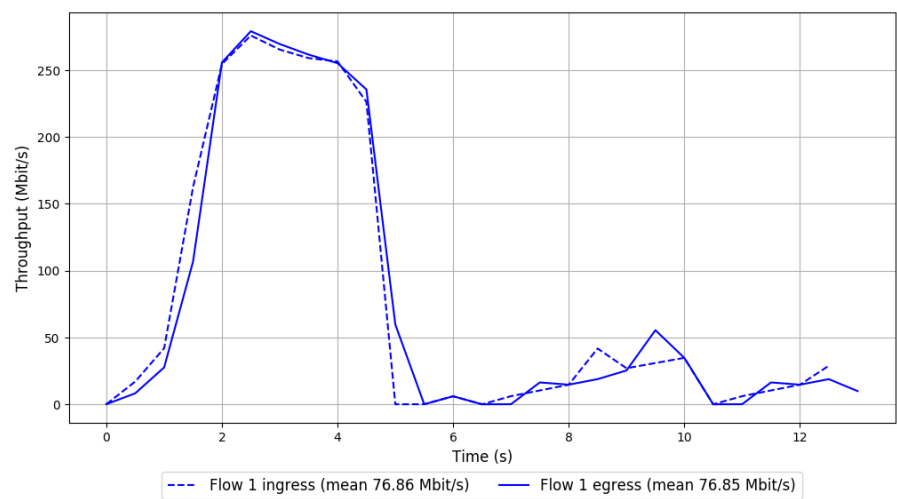


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-20 10:12:17

End at: 2017-12-20 10:12:48

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-20 10:25:02

End at: 2017-12-20 10:25:32

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.18 Mbit/s

95th percentile per-packet one-way delay: 136.888 ms

Loss rate: 0.00%

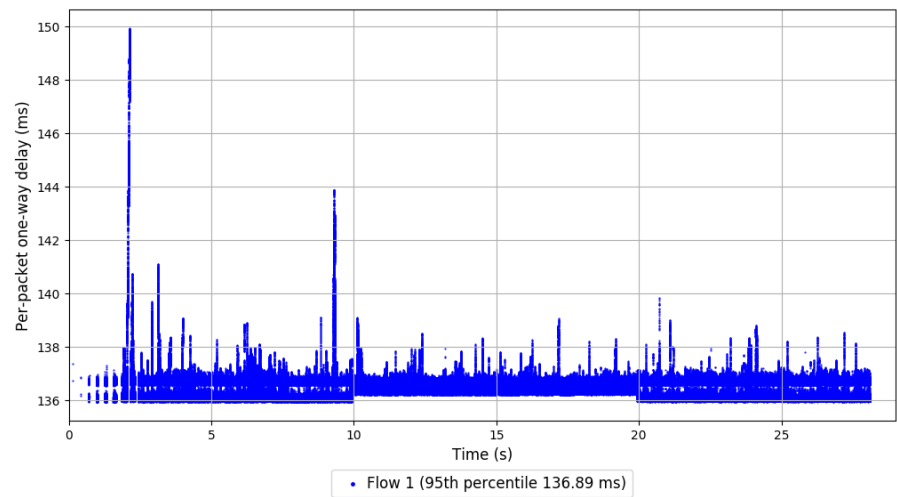
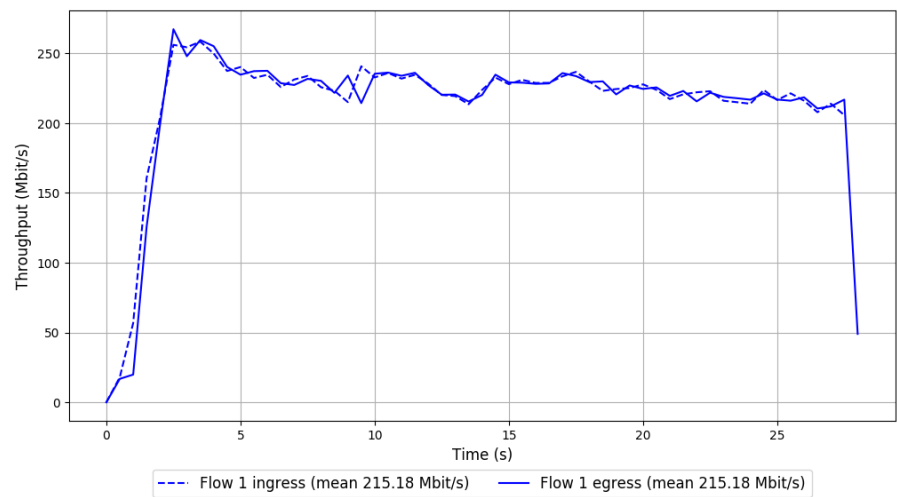
-- Flow 1:

Average throughput: 215.18 Mbit/s

95th percentile per-packet one-way delay: 136.888 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-20 10:38:09

End at: 2017-12-20 10:38:39

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.37 Mbit/s

95th percentile per-packet one-way delay: 136.819 ms

Loss rate: 0.00%

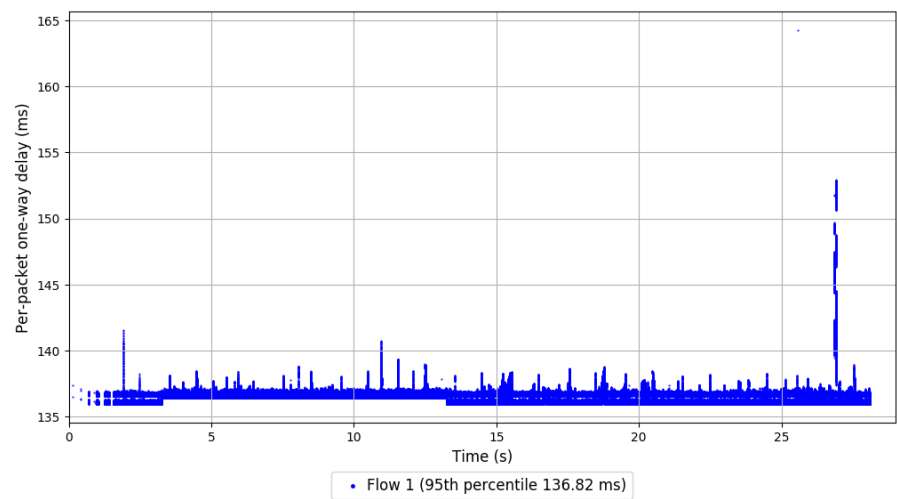
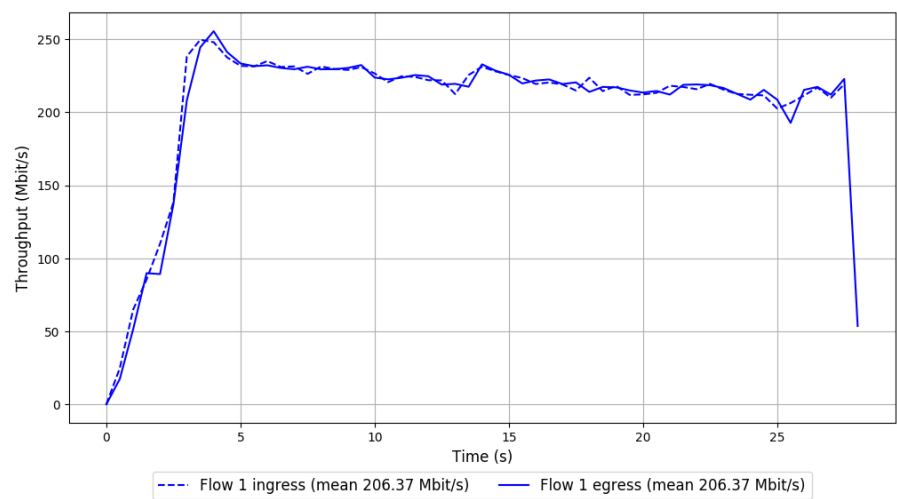
-- Flow 1:

Average throughput: 206.37 Mbit/s

95th percentile per-packet one-way delay: 136.819 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-20 10:51:11

End at: 2017-12-20 10:51:41

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.91 Mbit/s

95th percentile per-packet one-way delay: 137.126 ms

Loss rate: 0.00%

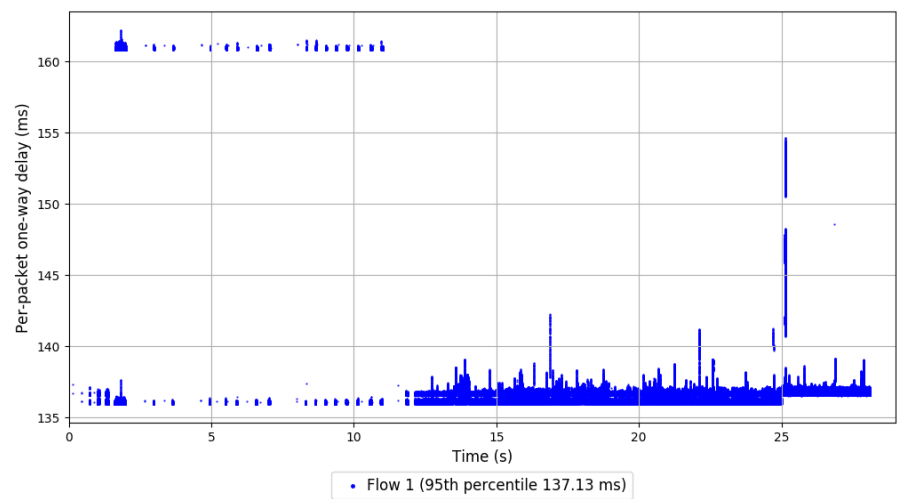
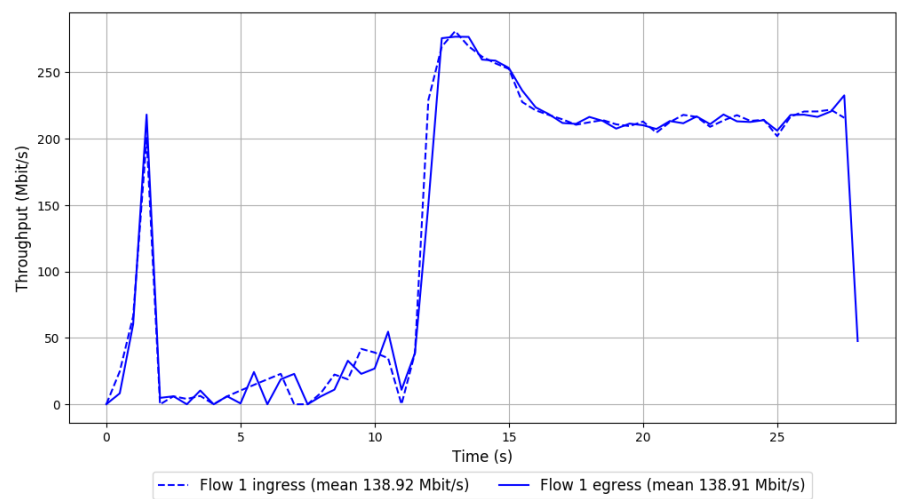
-- Flow 1:

Average throughput: 138.91 Mbit/s

95th percentile per-packet one-way delay: 137.126 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-20 11:04:03

End at: 2017-12-20 11:04:33

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 162.410 ms

Loss rate: 0.14%

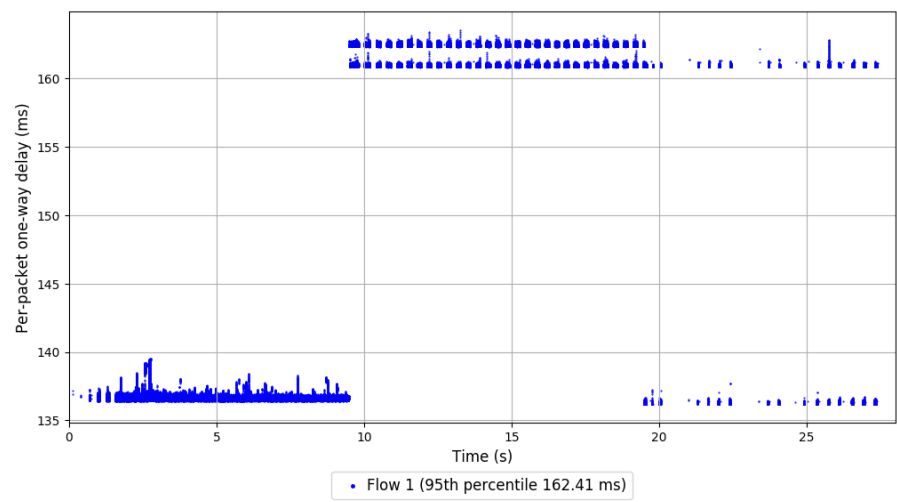
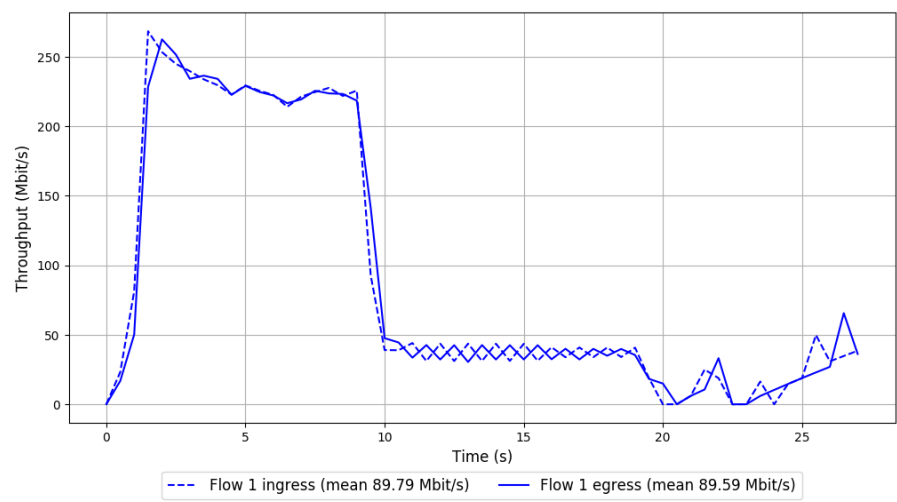
-- Flow 1:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 162.410 ms

Loss rate: 0.14%

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

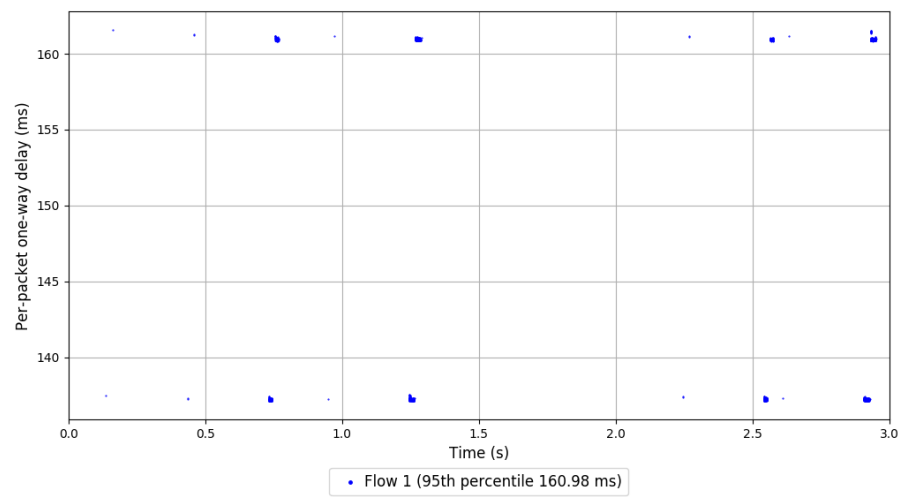
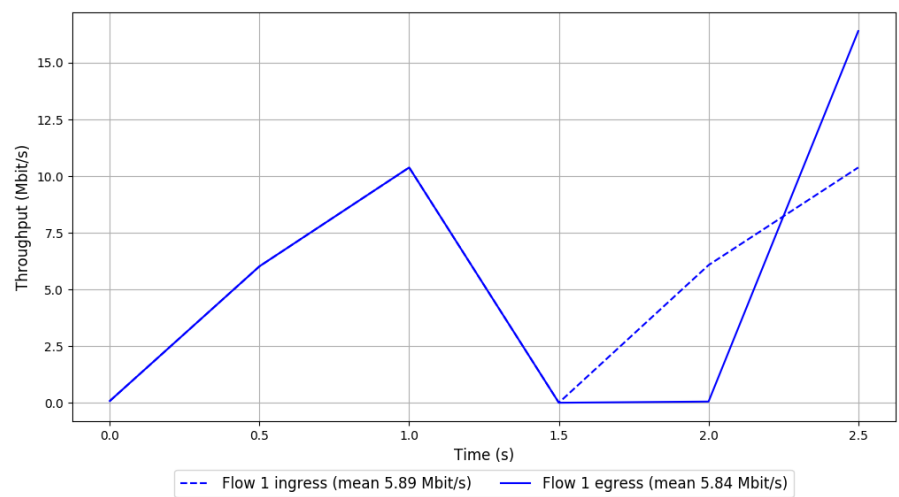


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-20 11:16:27

End at: 2017-12-20 11:16:57

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-20 09:25:52

End at: 2017-12-20 09:26:22

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 138.009 ms

Loss rate: 1.08%

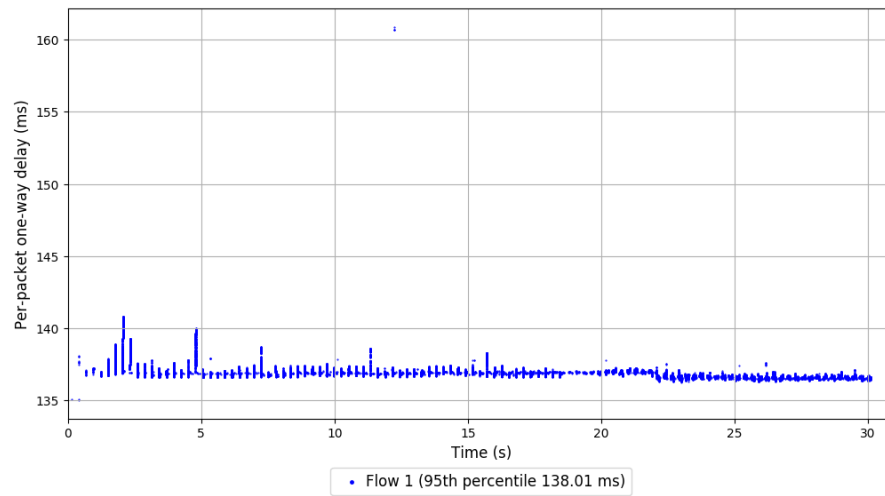
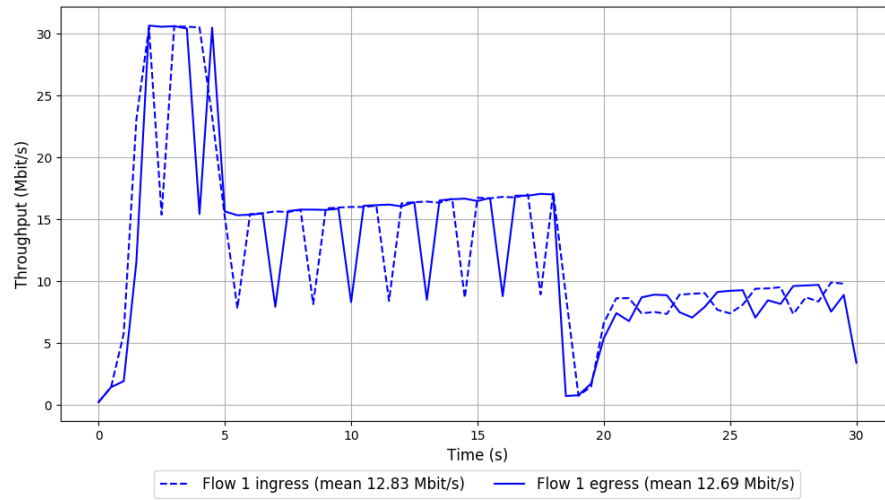
-- Flow 1:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 138.009 ms

Loss rate: 1.08%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-20 09:38:53

End at: 2017-12-20 09:39:23

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 137.886 ms

Loss rate: 0.02%

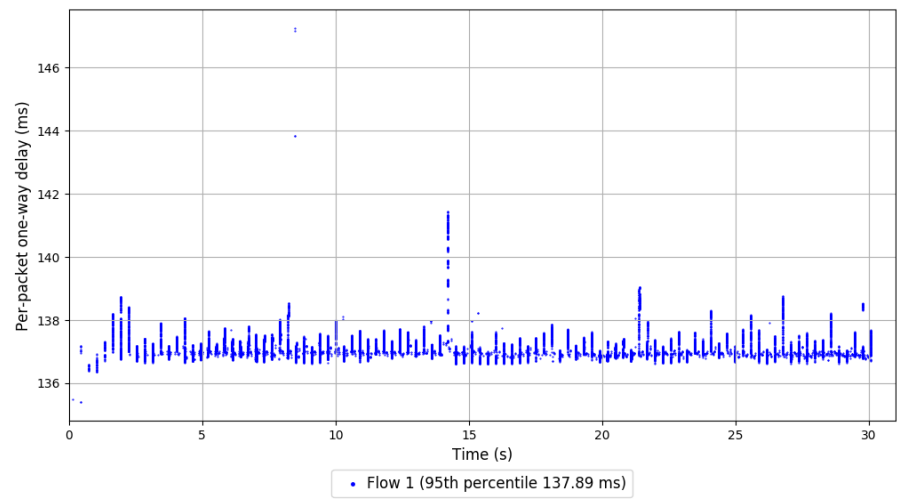
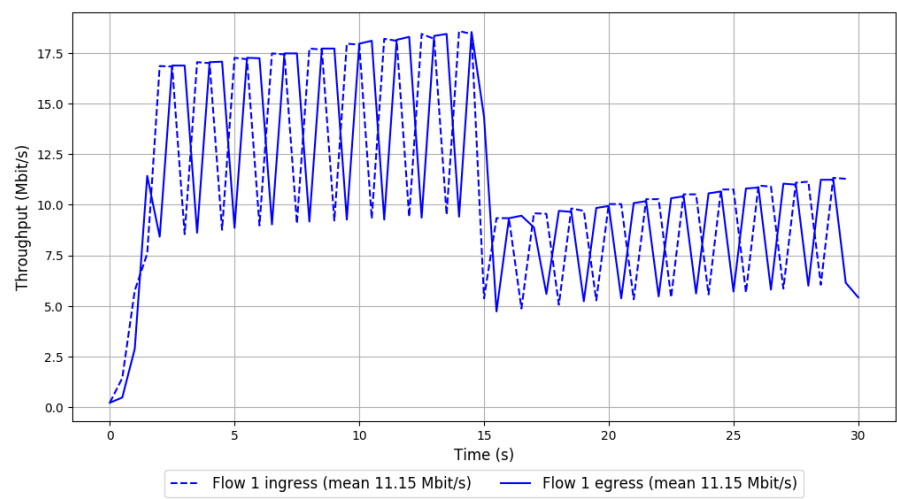
-- Flow 1:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 137.886 ms

Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-20 09:51:38

End at: 2017-12-20 09:52:08

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 142.750 ms

Loss rate: 2.28%

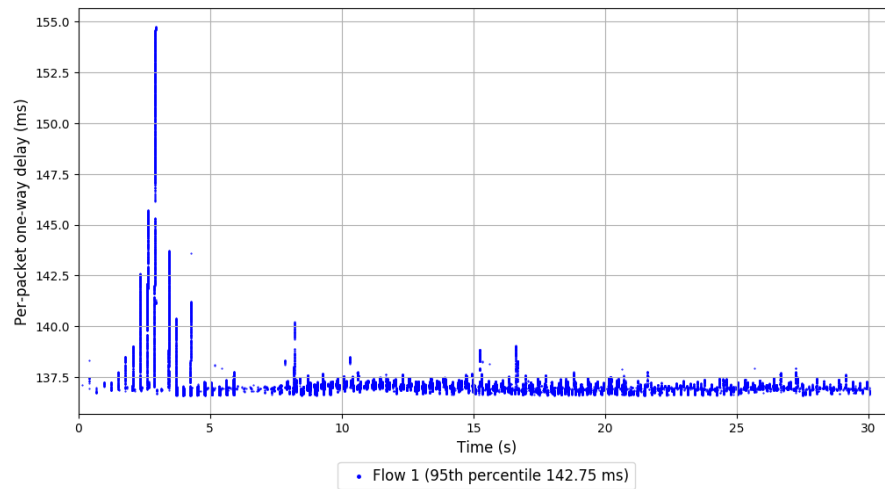
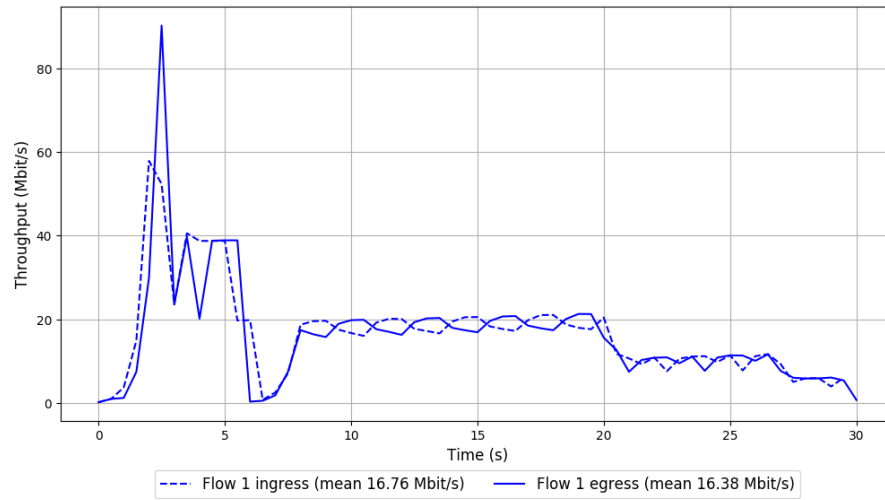
-- Flow 1:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 142.750 ms

Loss rate: 2.28%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-20 10:04:03

End at: 2017-12-20 10:04:33

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 166.068 ms

Loss rate: 1.03%

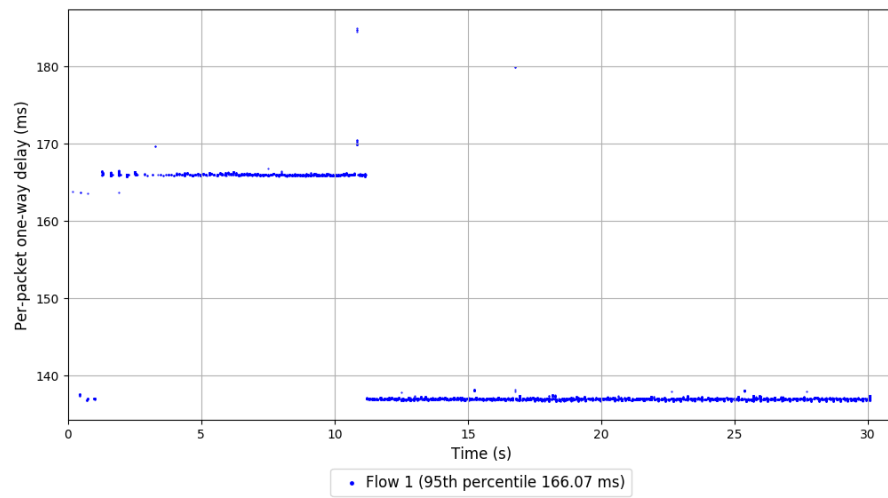
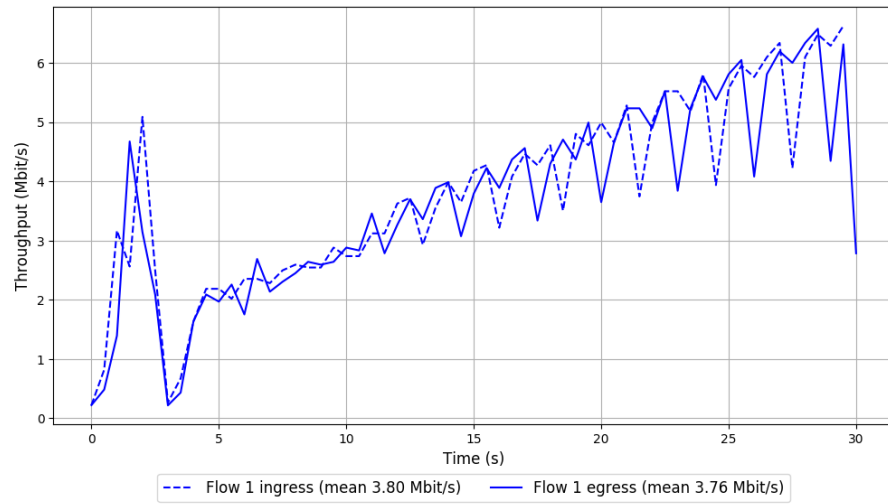
-- Flow 1:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 166.068 ms

Loss rate: 1.03%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-20 10:16:28

End at: 2017-12-20 10:16:58

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 137.513 ms

Loss rate: 0.88%

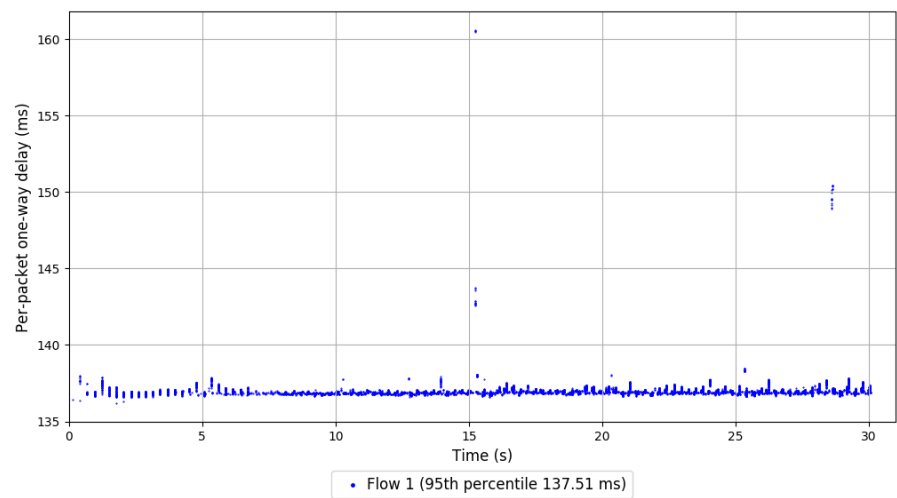
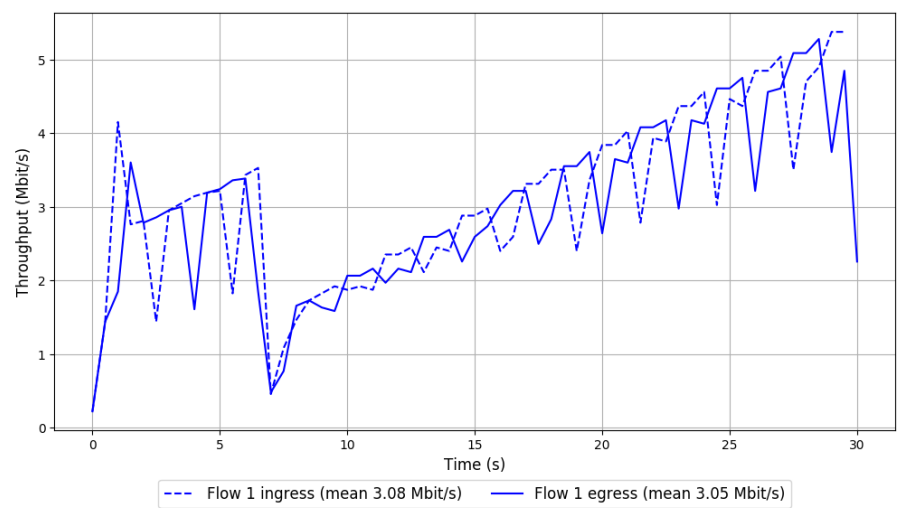
-- Flow 1:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 137.513 ms

Loss rate: 0.88%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-20 10:29:38

End at: 2017-12-20 10:30:08

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 161.261 ms

Loss rate: 2.92%

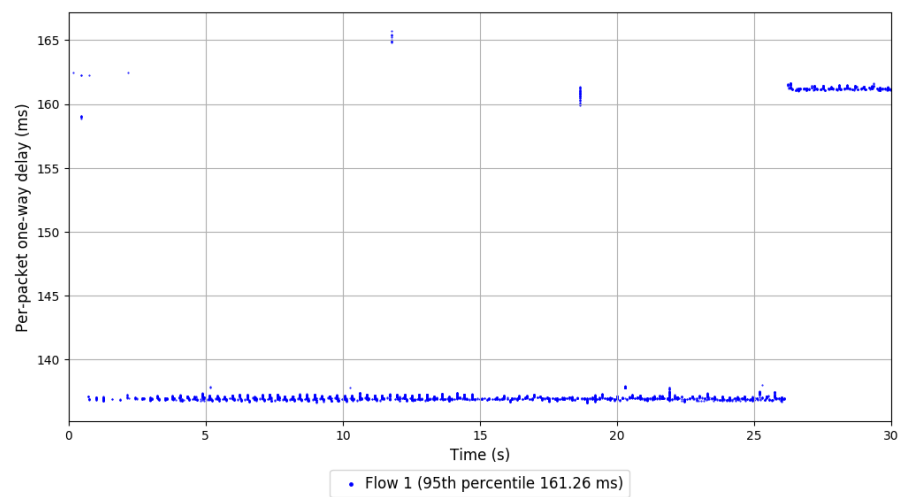
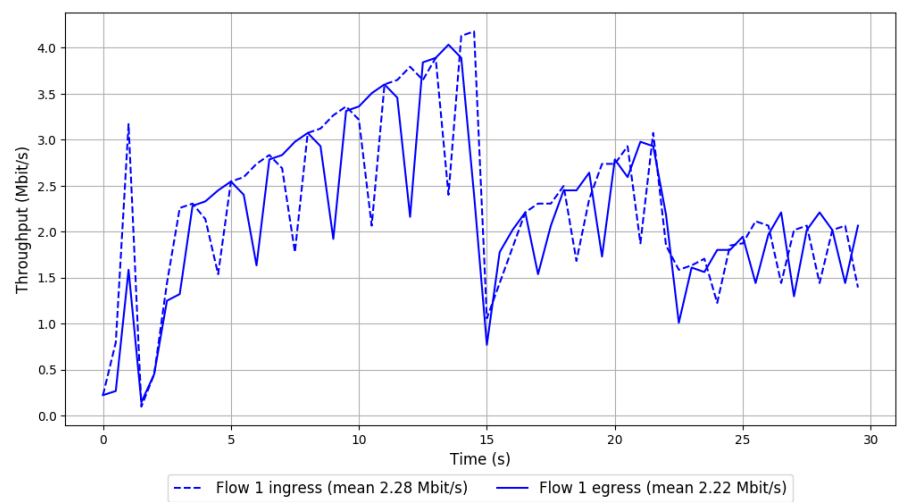
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 161.261 ms

Loss rate: 2.92%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-20 10:42:46

End at: 2017-12-20 10:43:16

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 140.119 ms

Loss rate: 2.06%

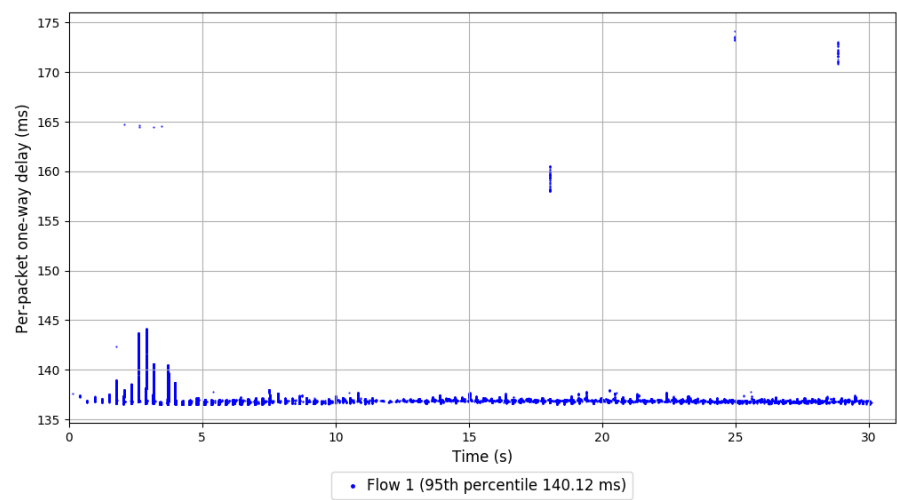
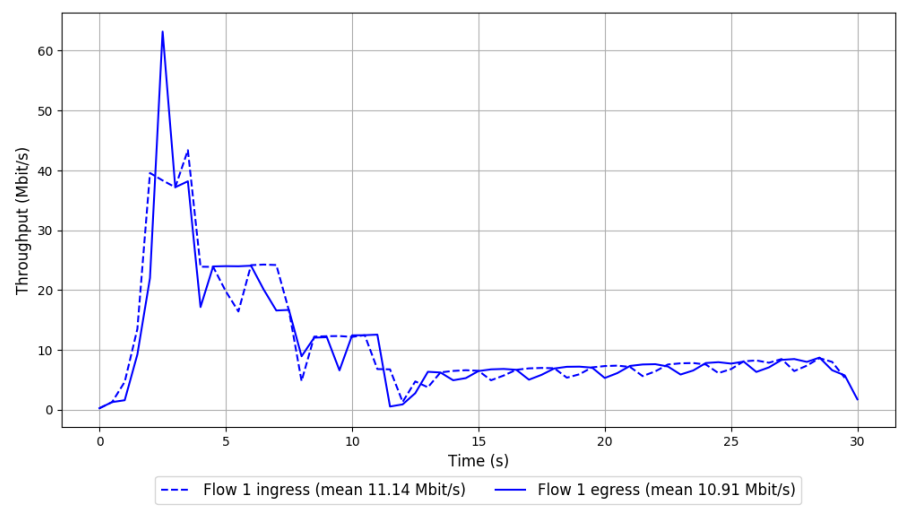
-- Flow 1:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 140.119 ms

Loss rate: 2.06%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-20 10:55:38

End at: 2017-12-20 10:56:08

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 161.635 ms

Loss rate: 0.63%

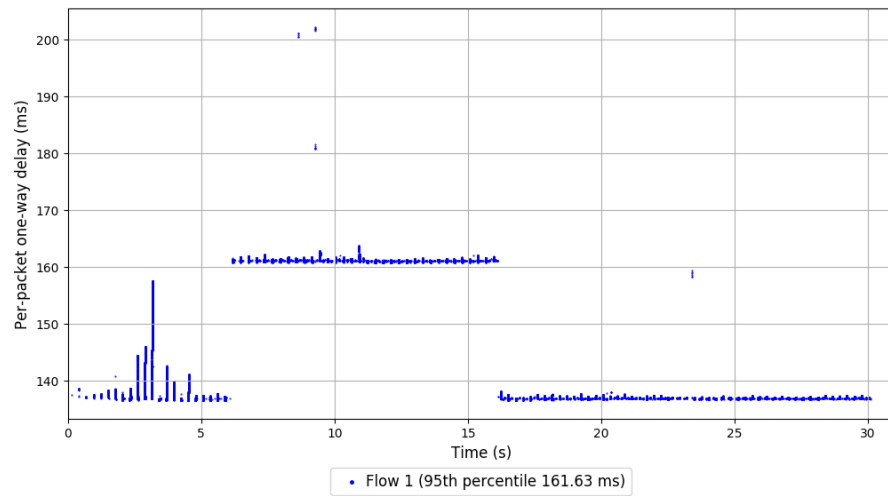
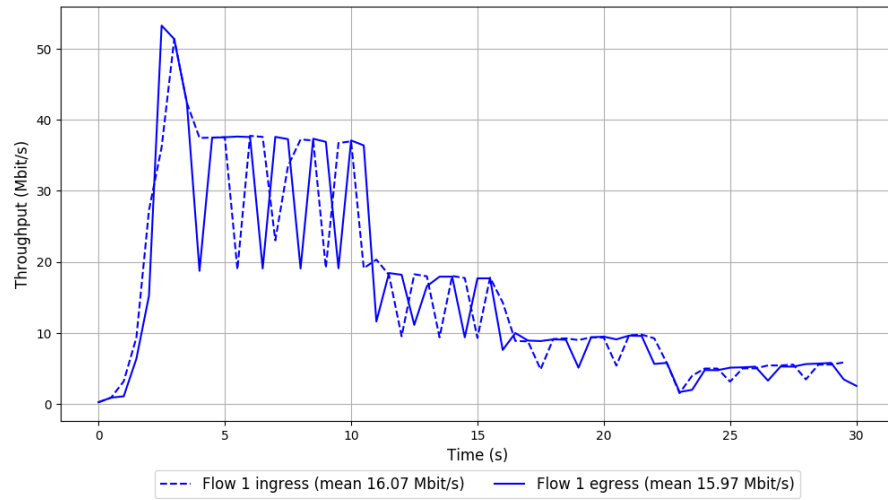
-- Flow 1:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 161.635 ms

Loss rate: 0.63%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-20 11:07:51

End at: 2017-12-20 11:08:21

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.41 Mbit/s

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

Loss rate: 0.00%

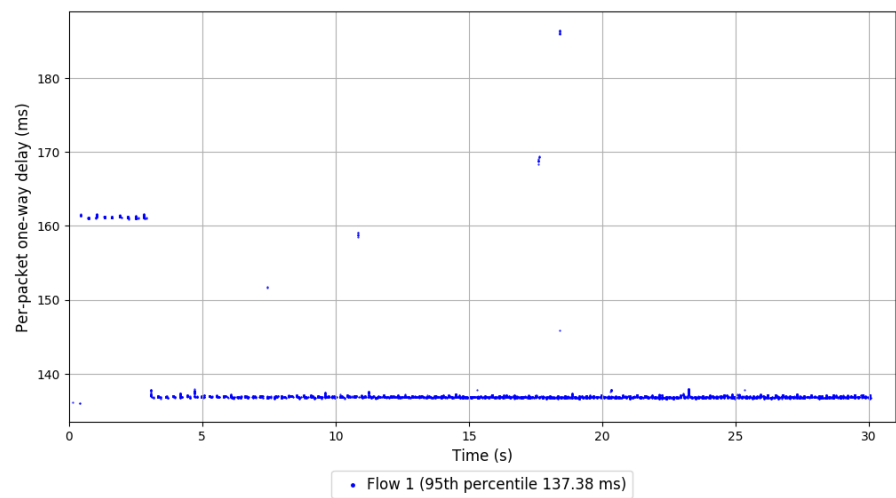
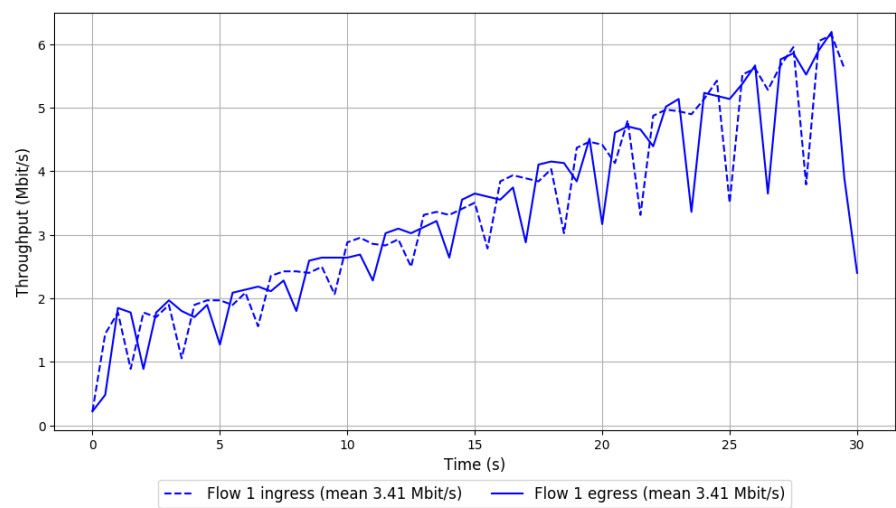
-- Flow 1:

Average throughput: 3.41 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-20 11:20:32

End at: 2017-12-20 11:21:02

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 161.233 ms

Loss rate: 0.04%

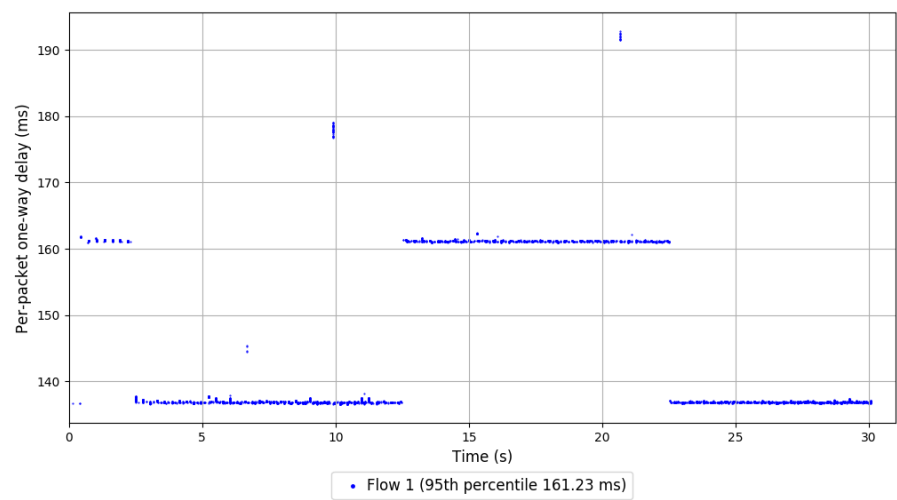
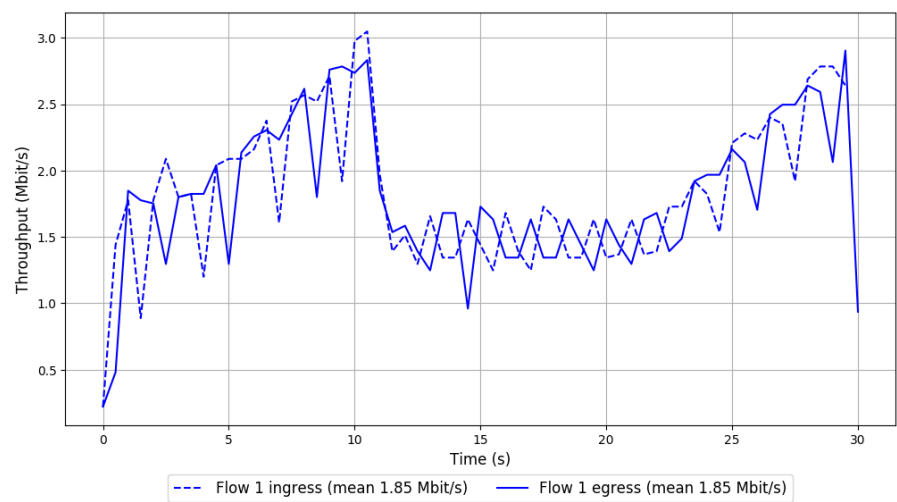
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 161.233 ms

Loss rate: 0.04%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-20 09:28:00

End at: 2017-12-20 09:28:30

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.44 Mbit/s

95th percentile per-packet one-way delay: 172.743 ms

Loss rate: 0.01%

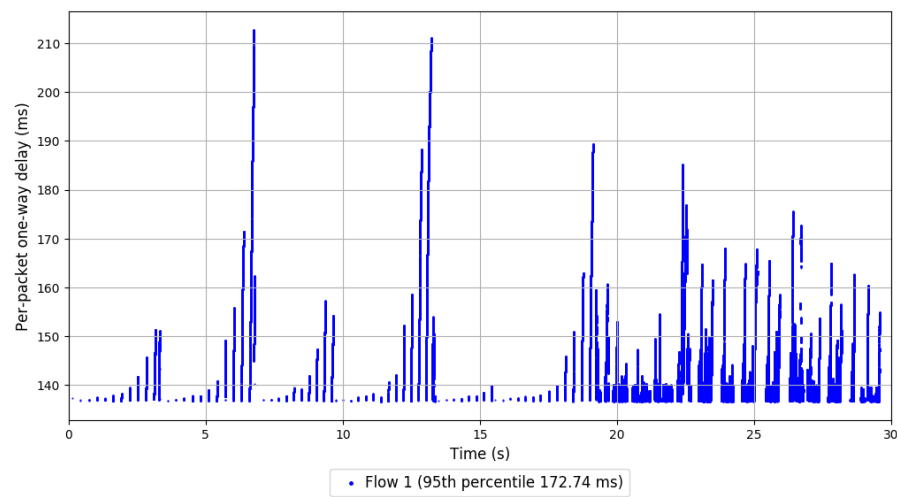
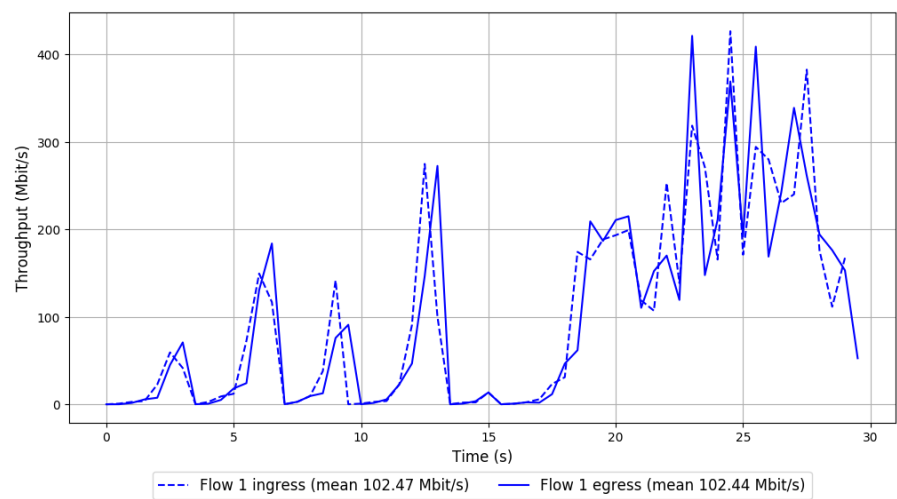
-- Flow 1:

Average throughput: 102.44 Mbit/s

95th percentile per-packet one-way delay: 172.743 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-20 09:41:00

End at: 2017-12-20 09:41:30

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.67 Mbit/s

95th percentile per-packet one-way delay: 205.758 ms

Loss rate: 1.43%

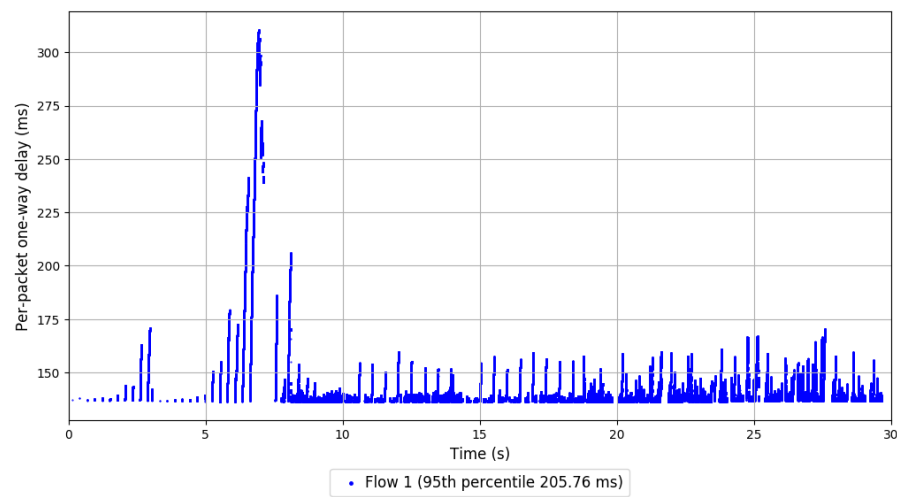
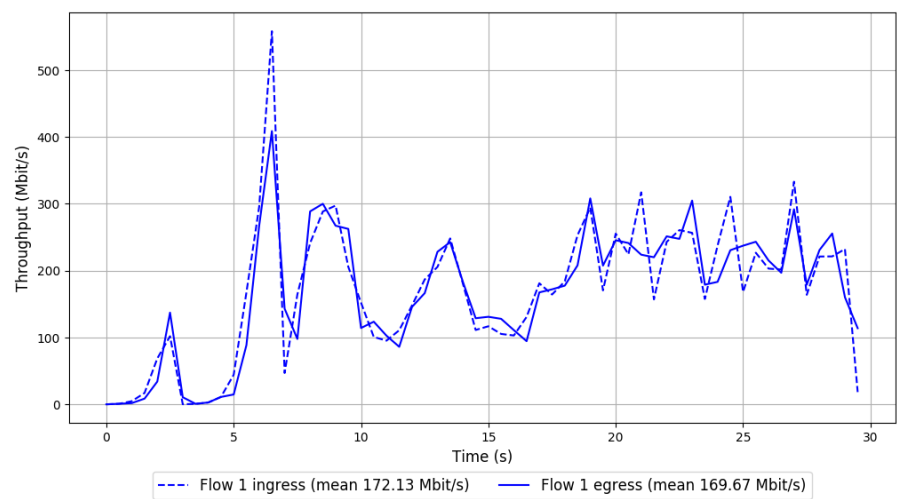
-- Flow 1:

Average throughput: 169.67 Mbit/s

95th percentile per-packet one-way delay: 205.758 ms

Loss rate: 1.43%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-20 09:53:46

End at: 2017-12-20 09:54:16

Below is generated by plot.py at 2017-12-20 12:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.49 Mbit/s

95th percentile per-packet one-way delay: 174.693 ms

Loss rate: 0.02%

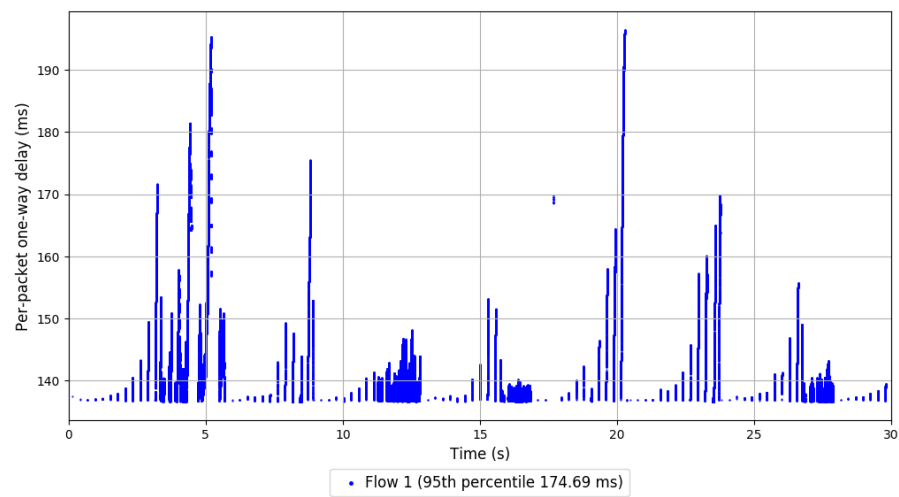
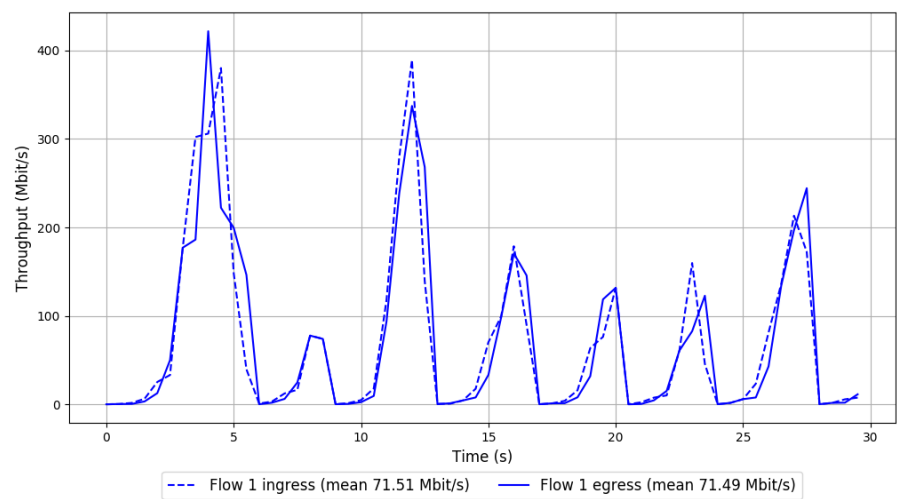
-- Flow 1:

Average throughput: 71.49 Mbit/s

95th percentile per-packet one-way delay: 174.693 ms

Loss rate: 0.02%

Run 3: Report of Verus — Data Link

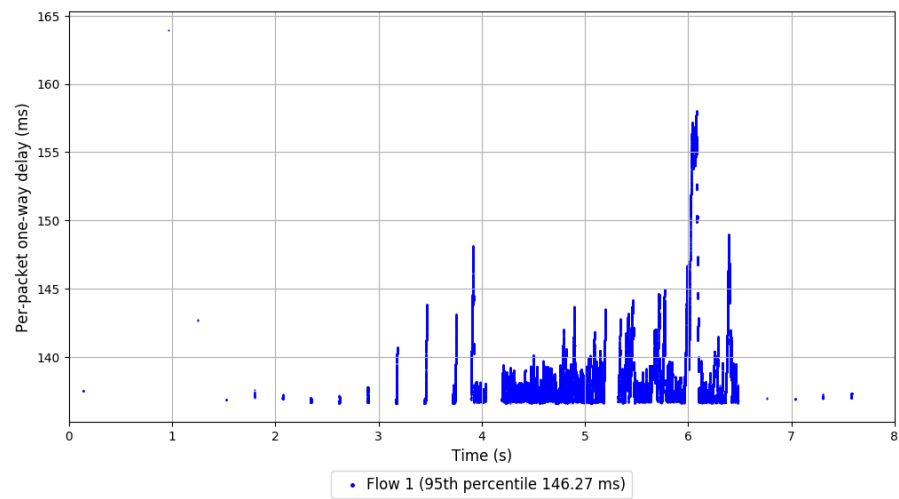
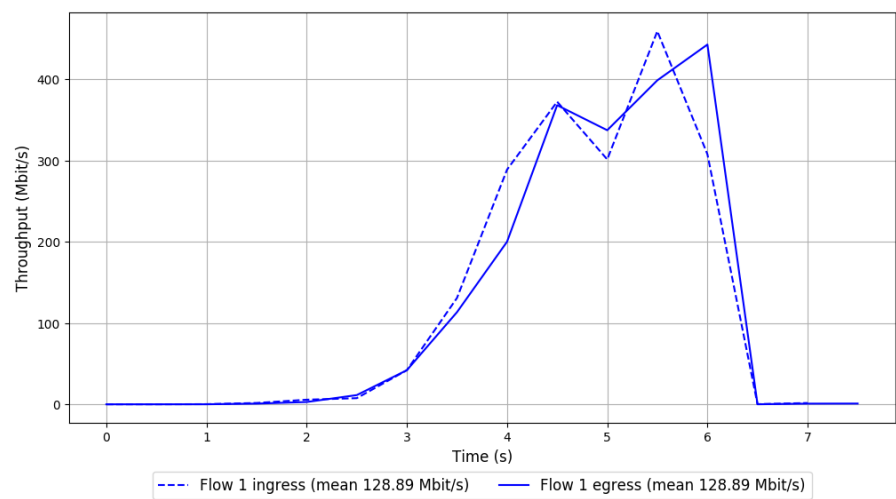


Run 4: Statistics of Verus

Start at: 2017-12-20 10:06:09

End at: 2017-12-20 10:06:39

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-20 10:18:34

End at: 2017-12-20 10:19:04

Below is generated by plot.py at 2017-12-20 12:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.00 Mbit/s

95th percentile per-packet one-way delay: 221.136 ms

Loss rate: 0.67%

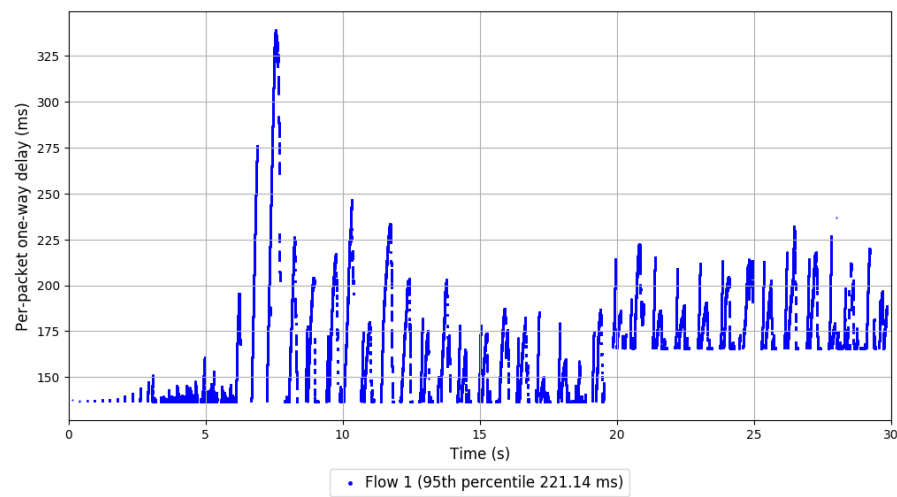
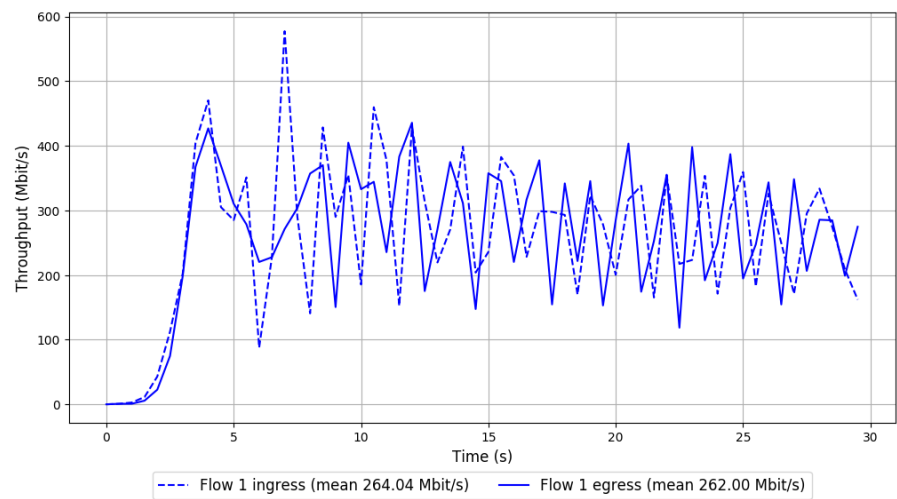
-- Flow 1:

Average throughput: 262.00 Mbit/s

95th percentile per-packet one-way delay: 221.136 ms

Loss rate: 0.67%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-20 10:31:48

End at: 2017-12-20 10:32:18

Below is generated by plot.py at 2017-12-20 12:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.23 Mbit/s

95th percentile per-packet one-way delay: 215.984 ms

Loss rate: 0.68%

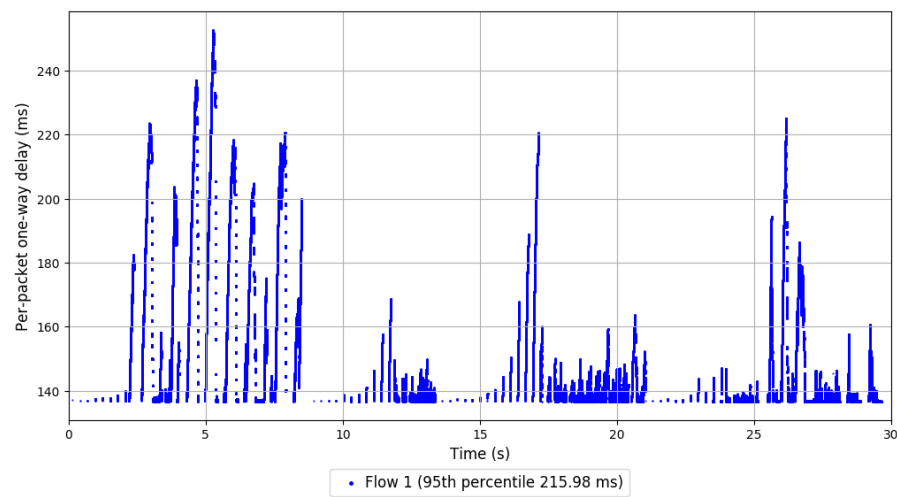
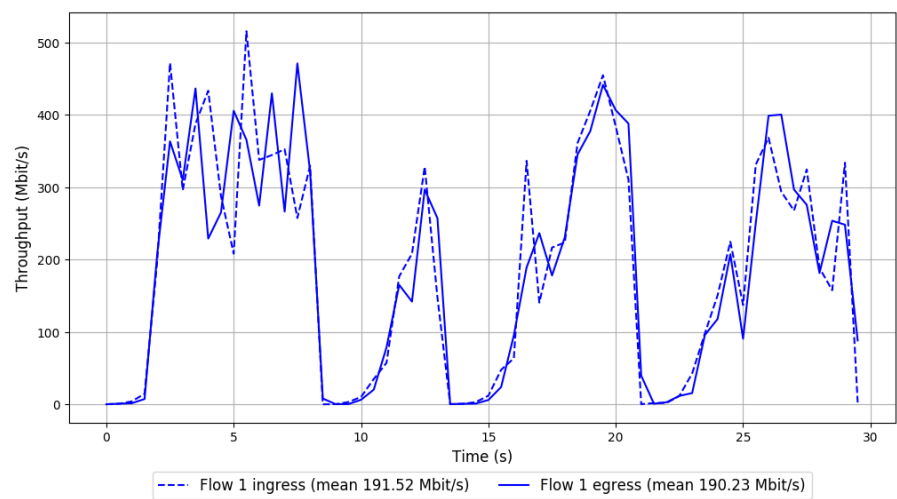
-- Flow 1:

Average throughput: 190.23 Mbit/s

95th percentile per-packet one-way delay: 215.984 ms

Loss rate: 0.68%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-20 10:44:57

End at: 2017-12-20 10:45:27

Below is generated by plot.py at 2017-12-20 12:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.71 Mbit/s

95th percentile per-packet one-way delay: 143.213 ms

Loss rate: 0.64%

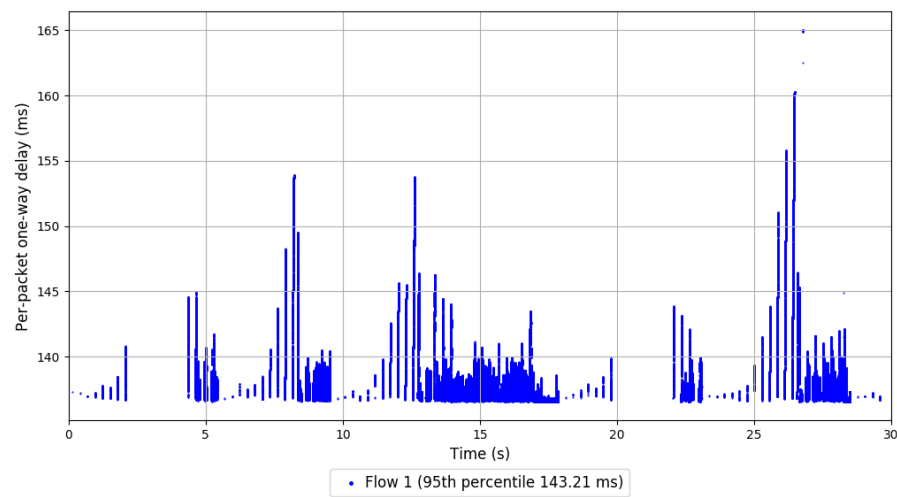
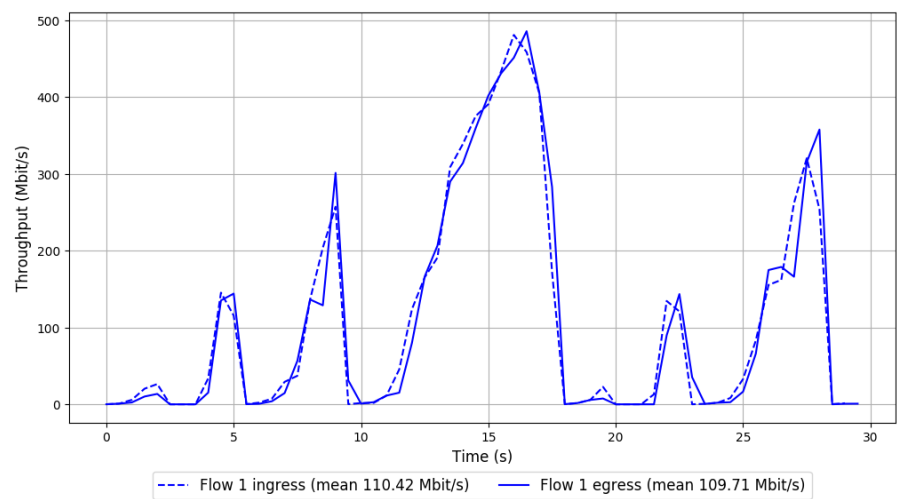
-- Flow 1:

Average throughput: 109.71 Mbit/s

95th percentile per-packet one-way delay: 143.213 ms

Loss rate: 0.64%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-20 10:57:48

End at: 2017-12-20 10:58:18

Below is generated by plot.py at 2017-12-20 12:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 208.369 ms

Loss rate: 1.00%

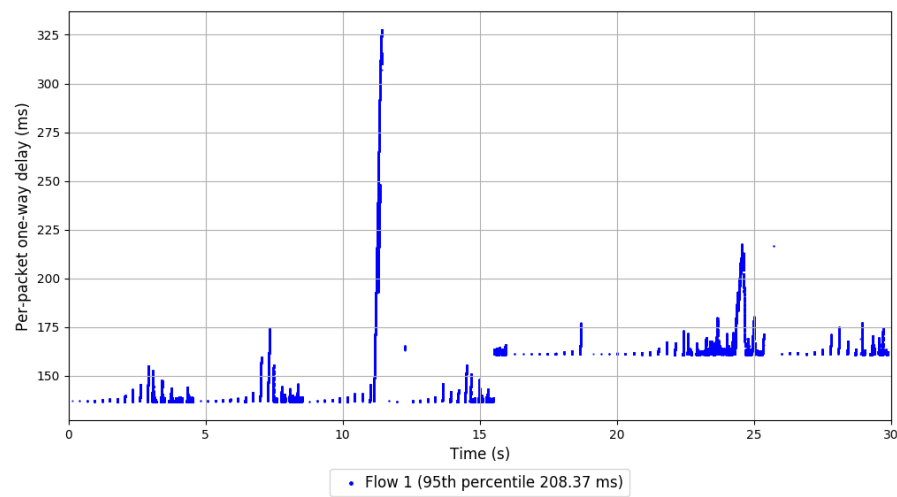
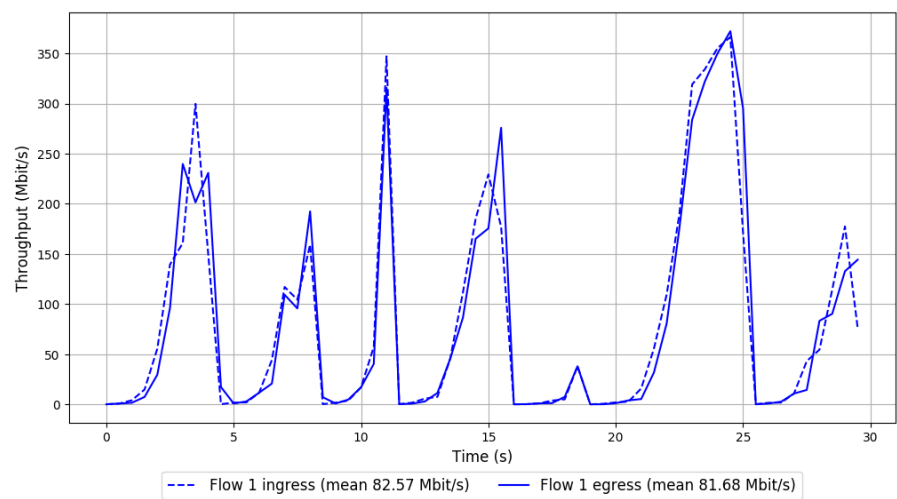
-- Flow 1:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 208.369 ms

Loss rate: 1.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-20 11:10:00

End at: 2017-12-20 11:10:30

Below is generated by plot.py at 2017-12-20 12:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.77 Mbit/s

95th percentile per-packet one-way delay: 337.052 ms

Loss rate: 12.60%

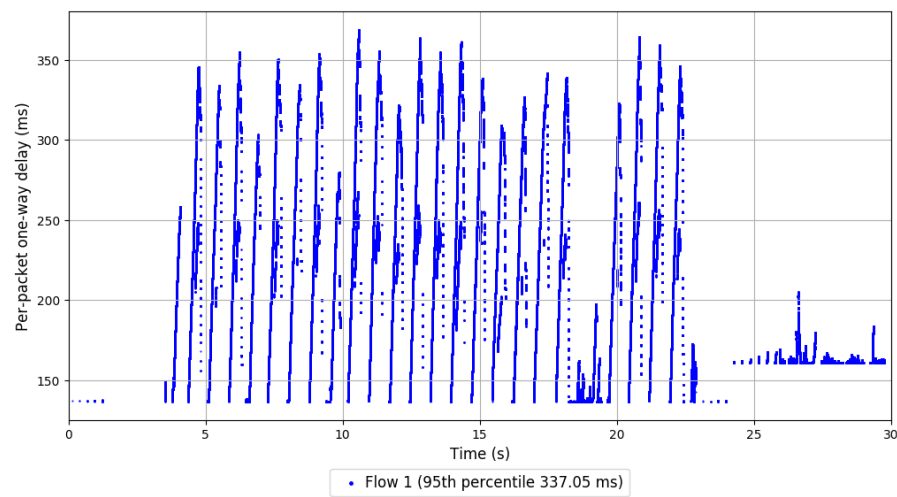
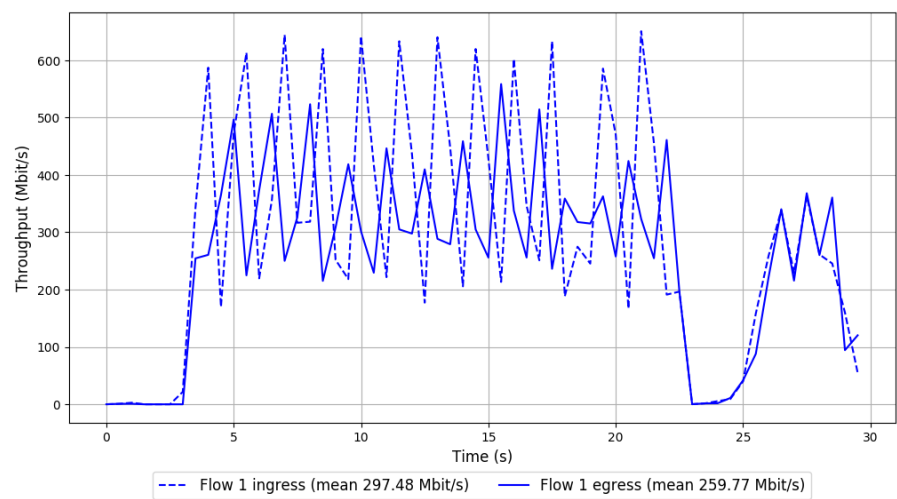
-- Flow 1:

Average throughput: 259.77 Mbit/s

95th percentile per-packet one-way delay: 337.052 ms

Loss rate: 12.60%

Run 9: Report of Verus — Data Link

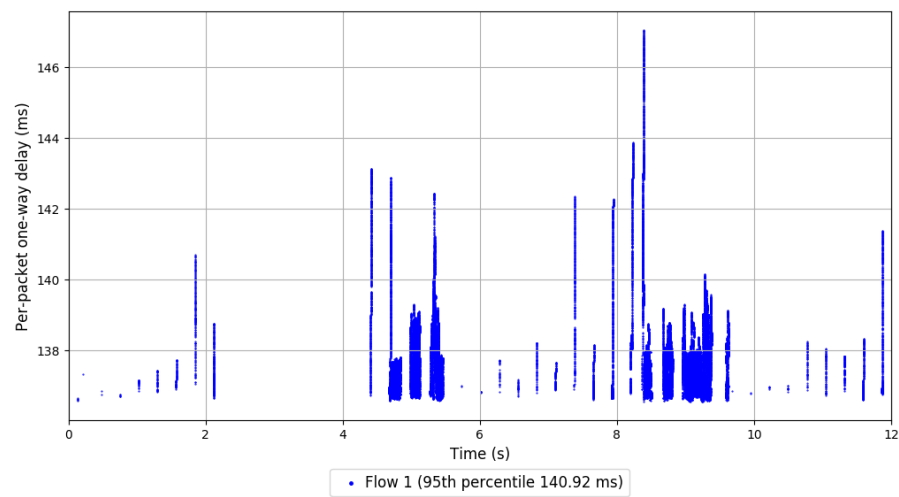
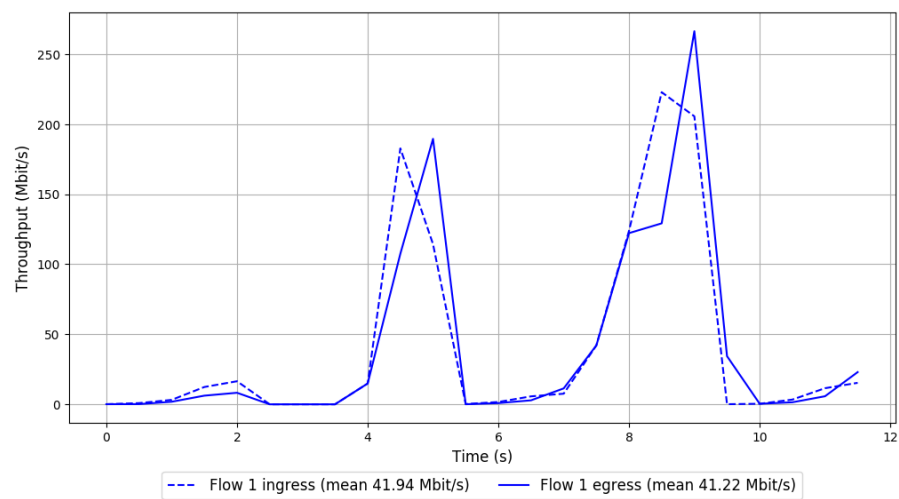


Run 10: Statistics of Verus

Start at: 2017-12-20 11:22:41

End at: 2017-12-20 11:23:11

Run 10: Report of Verus — Data Link

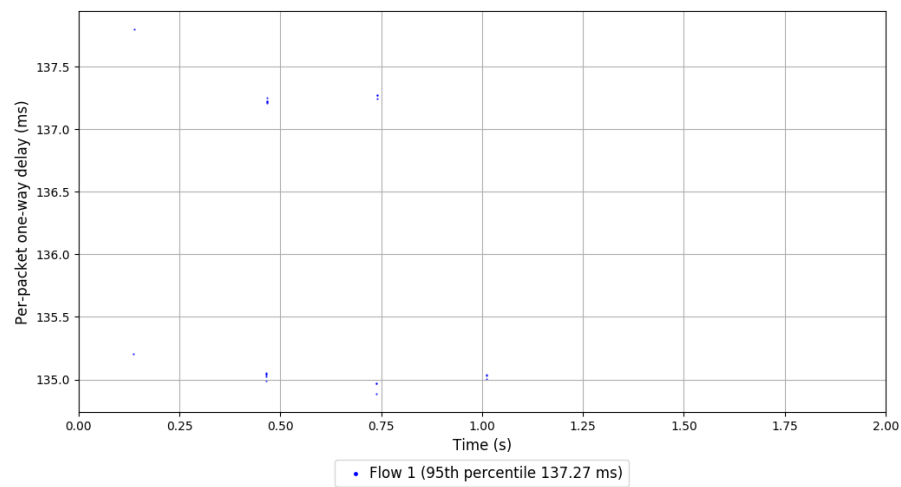
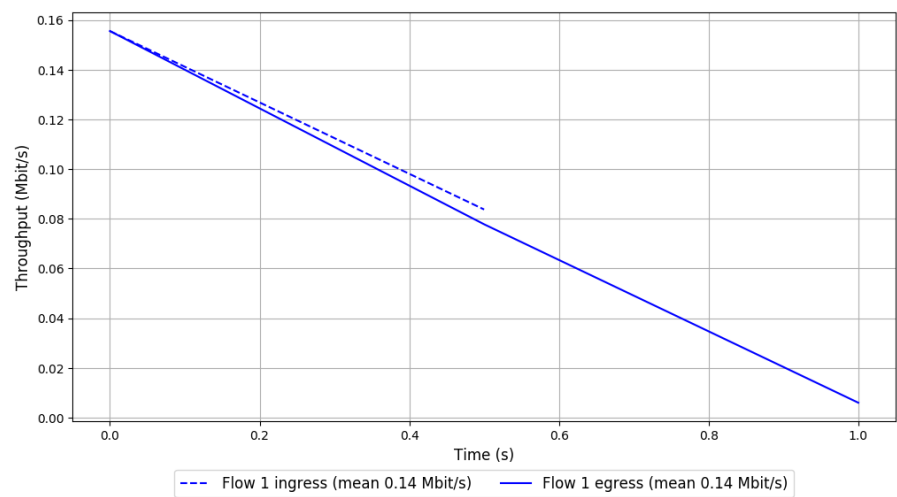


Run 1: Statistics of Copa

Start at: 2017-12-20 09:23:16

End at: 2017-12-20 09:23:46

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-20 09:36:08

End at: 2017-12-20 09:36:38

Below is generated by plot.py at 2017-12-20 12:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 136.772 ms

Loss rate: 0.00%

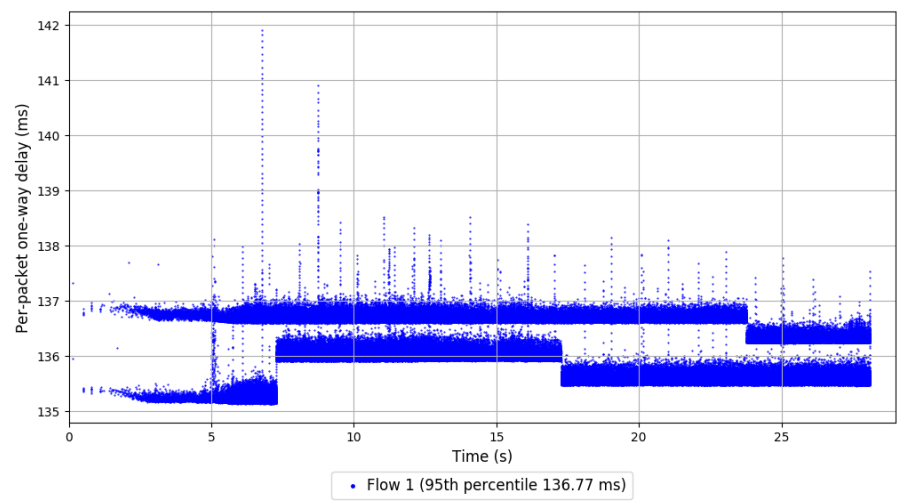
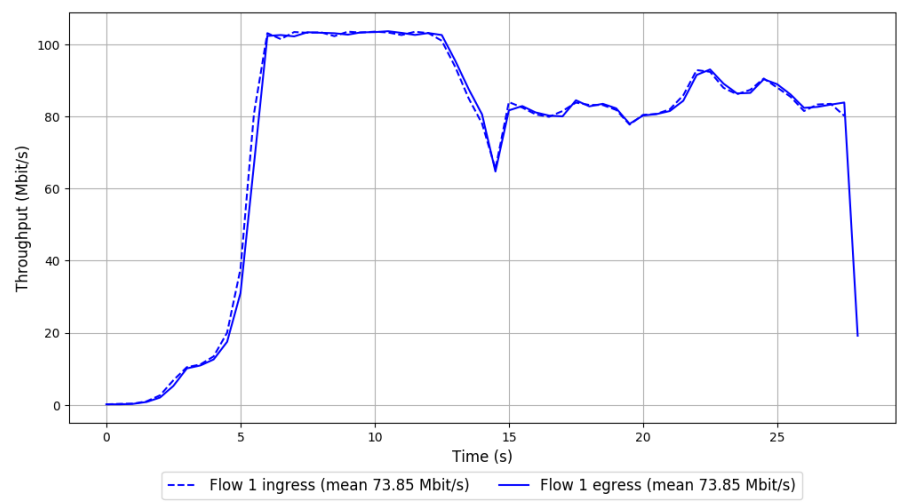
-- Flow 1:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 136.772 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

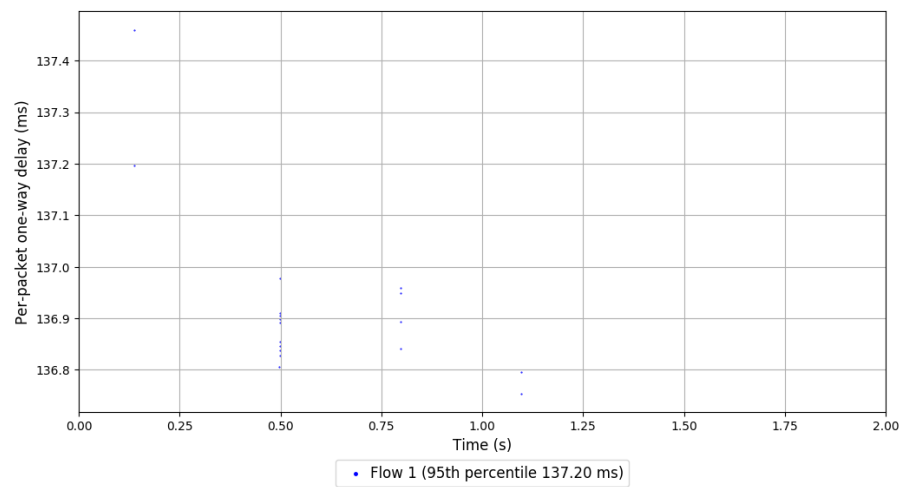
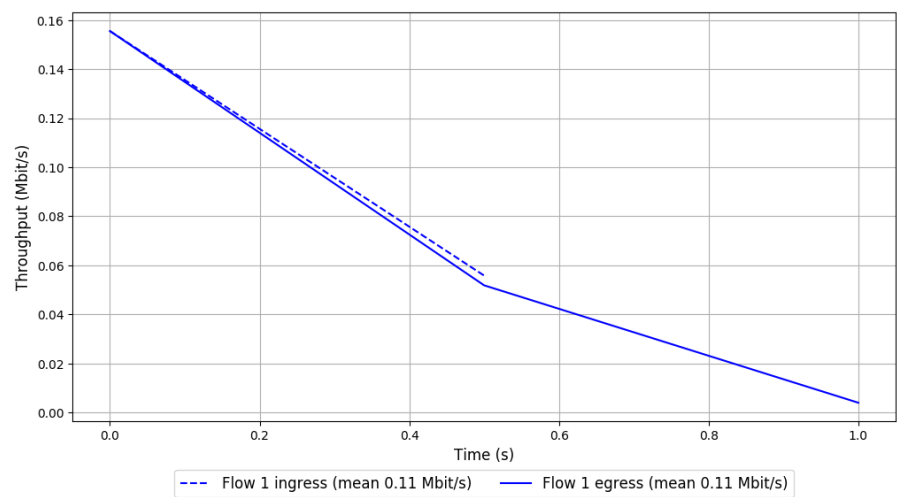


Run 3: Statistics of Copa

Start at: 2017-12-20 09:49:02

End at: 2017-12-20 09:49:32

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-20 10:01:23

End at: 2017-12-20 10:01:53

Below is generated by plot.py at 2017-12-20 12:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 137.066 ms

Loss rate: 0.00%

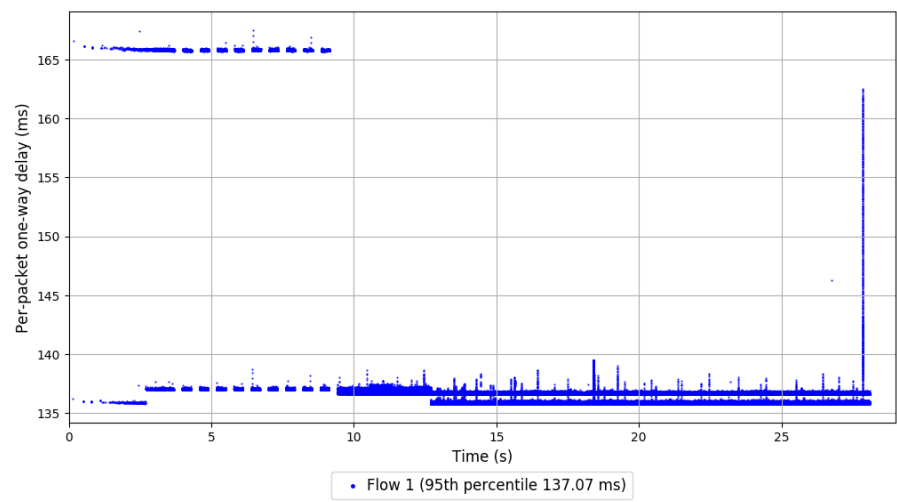
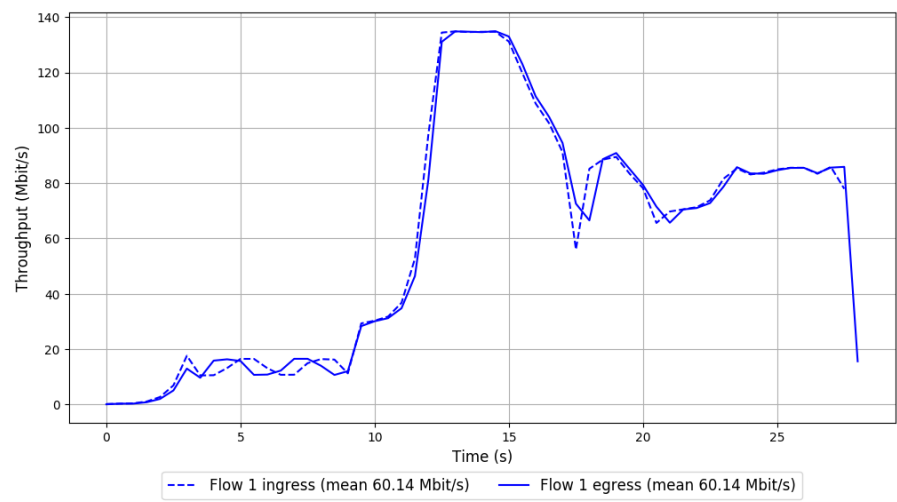
-- Flow 1:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 137.066 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-20 10:13:47

End at: 2017-12-20 10:14:17

Below is generated by plot.py at 2017-12-20 12:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.00%

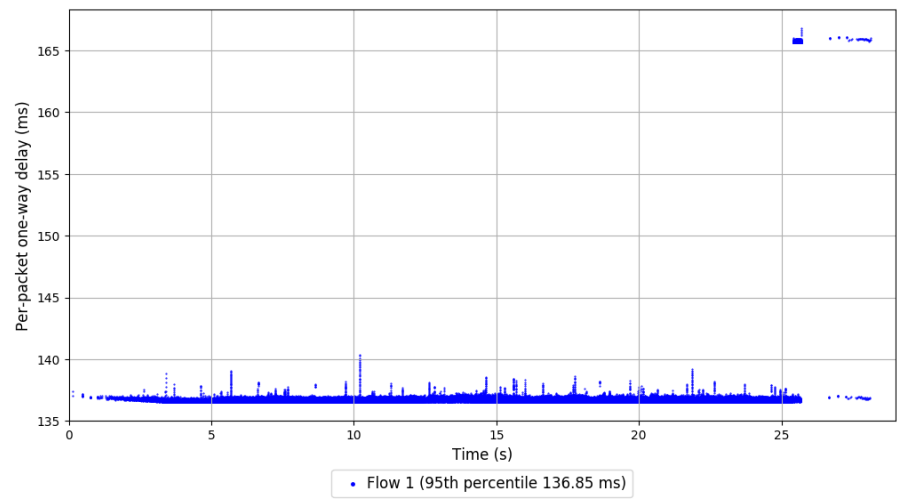
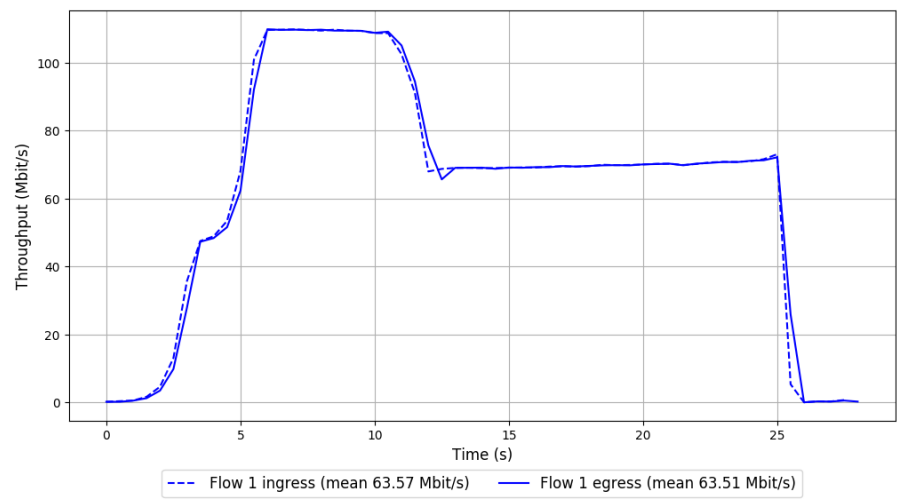
-- Flow 1:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-20 10:26:54

End at: 2017-12-20 10:27:24

Below is generated by plot.py at 2017-12-20 12:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 160.898 ms

Loss rate: 0.00%

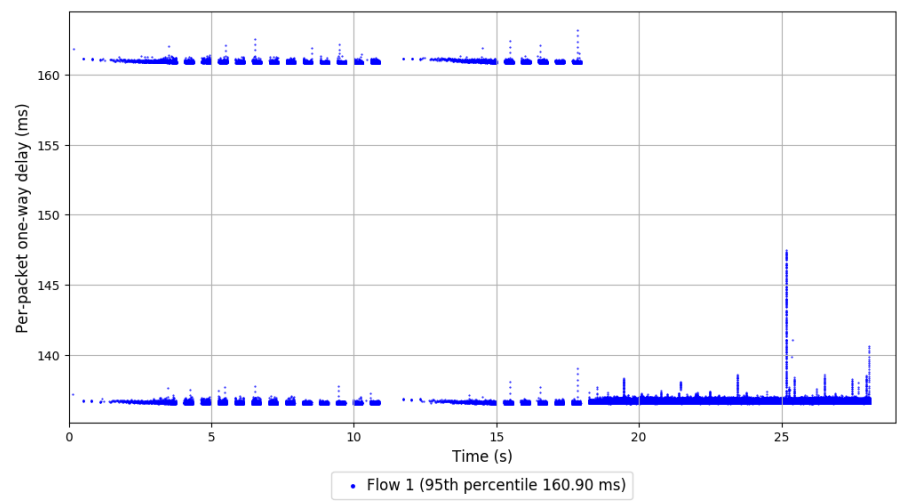
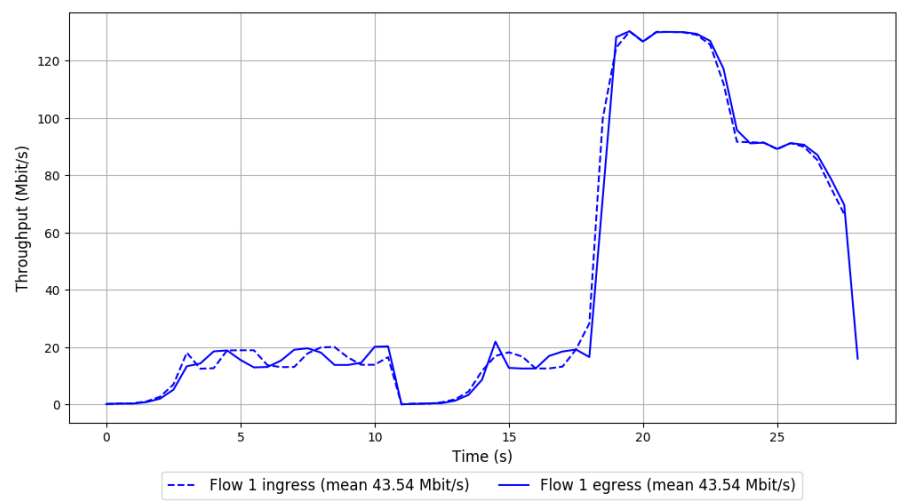
-- Flow 1:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 160.898 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-20 10:40:01

End at: 2017-12-20 10:40:31

Below is generated by plot.py at 2017-12-20 12:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.12 Mbit/s

95th percentile per-packet one-way delay: 137.172 ms

Loss rate: 0.16%

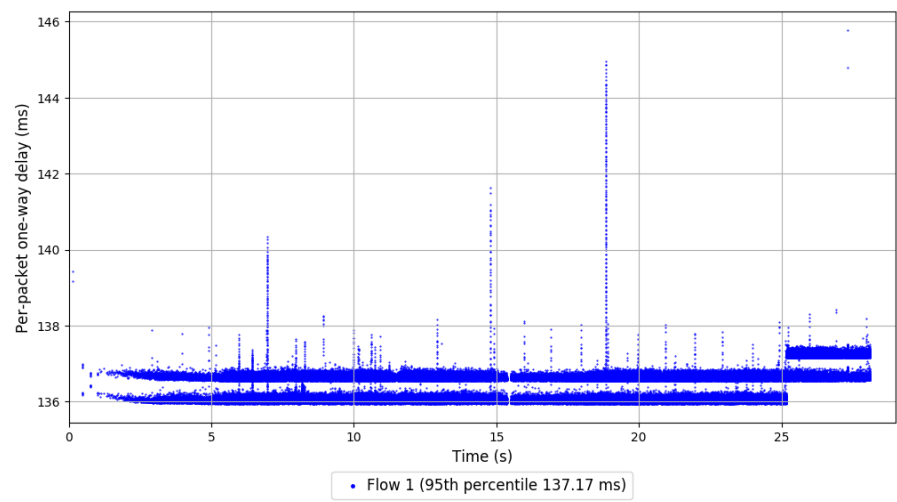
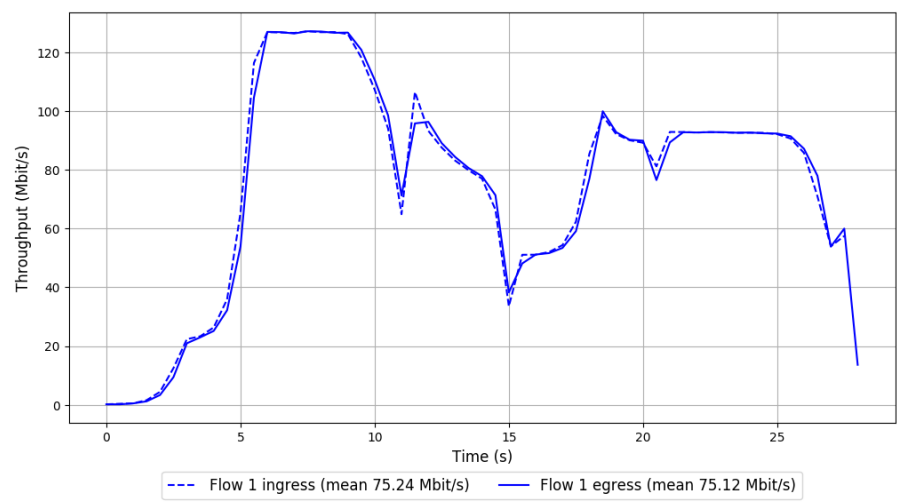
-- Flow 1:

Average throughput: 75.12 Mbit/s

95th percentile per-packet one-way delay: 137.172 ms

Loss rate: 0.16%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-20 10:52:55

End at: 2017-12-20 10:53:25

Below is generated by plot.py at 2017-12-20 12:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 0.00%

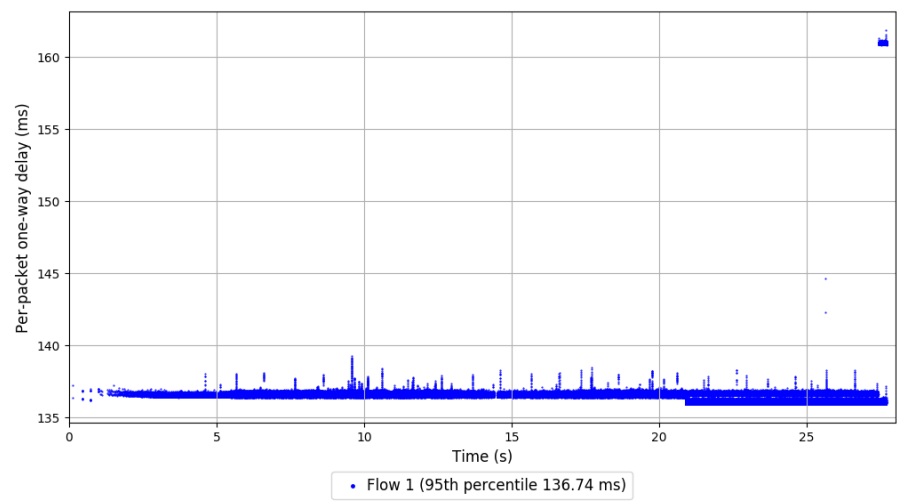
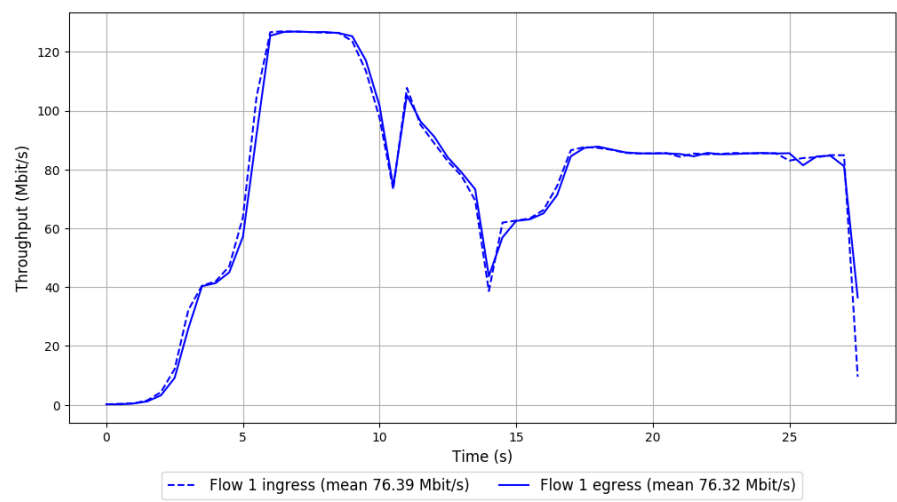
-- Flow 1:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-20 11:05:36

End at: 2017-12-20 11:06:06

Below is generated by plot.py at 2017-12-20 12:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 160.972 ms

Loss rate: 0.16%

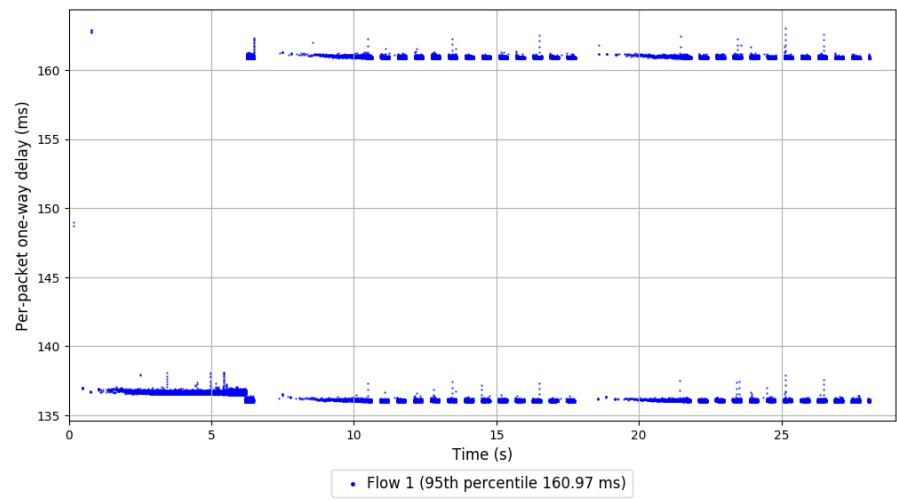
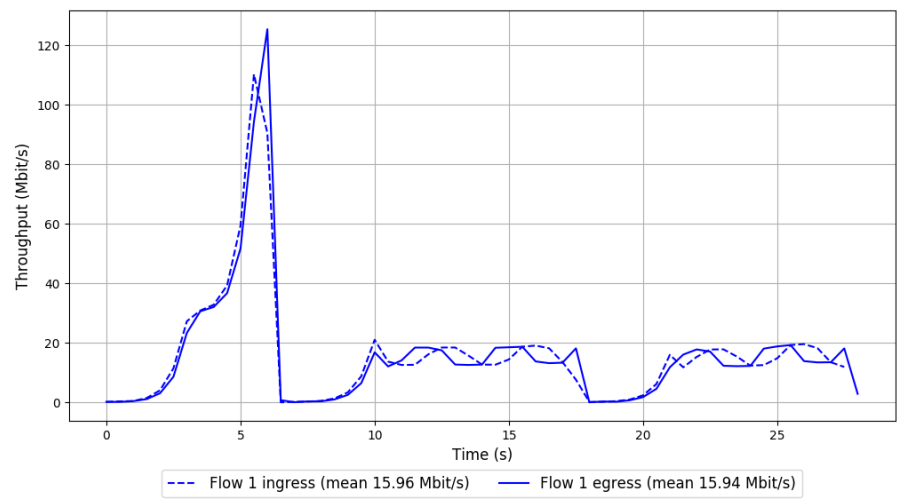
-- Flow 1:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 160.972 ms

Loss rate: 0.16%

Run 9: Report of Copa — Data Link

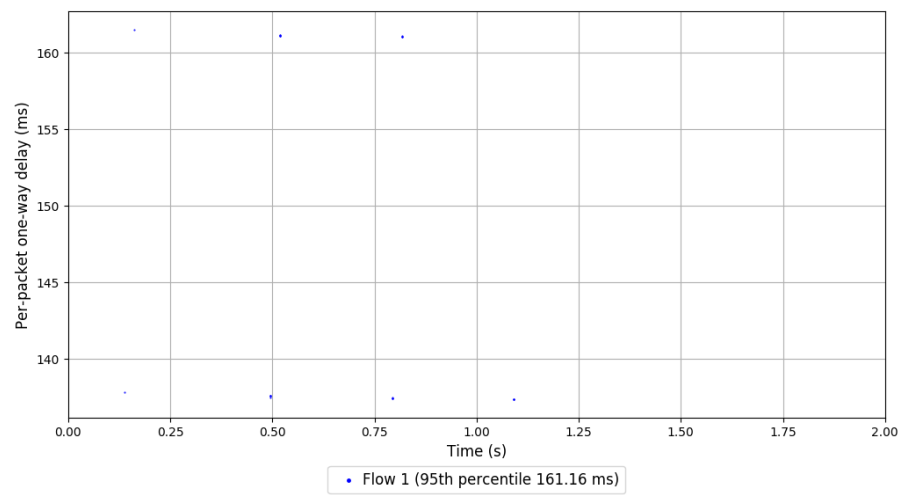
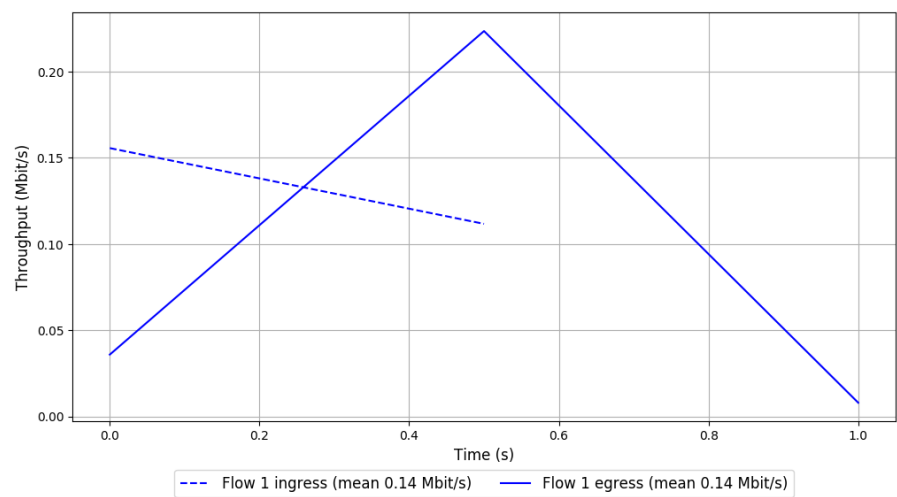


Run 10: Statistics of Copa

Start at: 2017-12-20 11:17:57

End at: 2017-12-20 11:18:27

Run 10: Report of Copa — Data Link

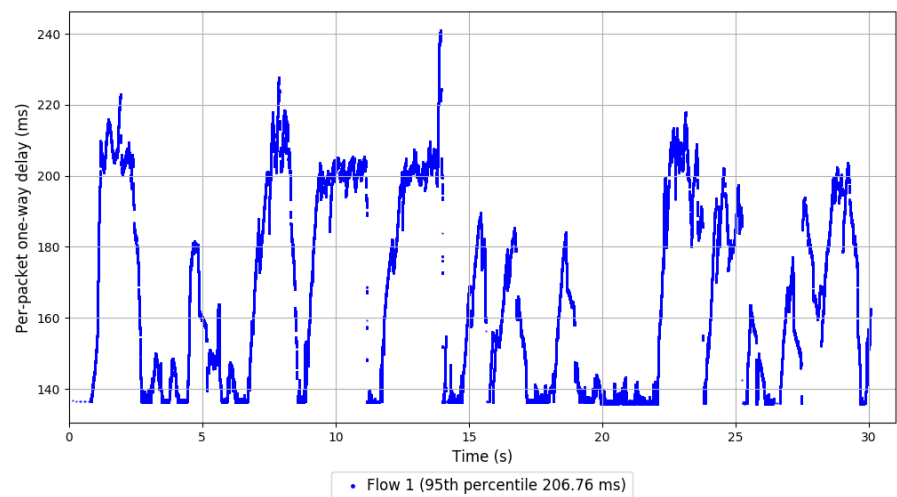
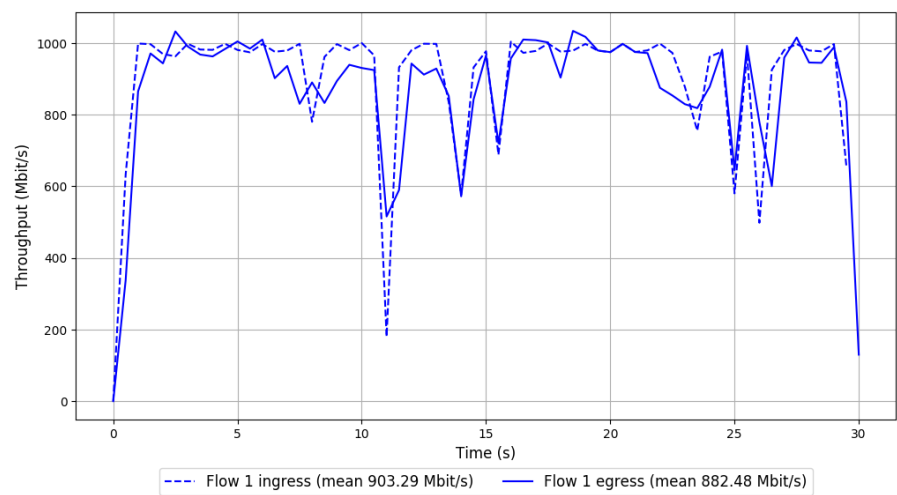


```
Run 1: Statistics of FillP

Start at: 2017-12-20 09:26:38
End at: 2017-12-20 09:27:08

# Below is generated by plot.py at 2017-12-20 13:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 882.48 Mbit/s
95th percentile per-packet one-way delay: 206.756 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 882.48 Mbit/s
95th percentile per-packet one-way delay: 206.756 ms
Loss rate: 2.30%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2017-12-20 09:39:38

End at: 2017-12-20 09:40:08

Below is generated by plot.py at 2017-12-20 13:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 865.62 Mbit/s

95th percentile per-packet one-way delay: 208.011 ms

Loss rate: 3.26%

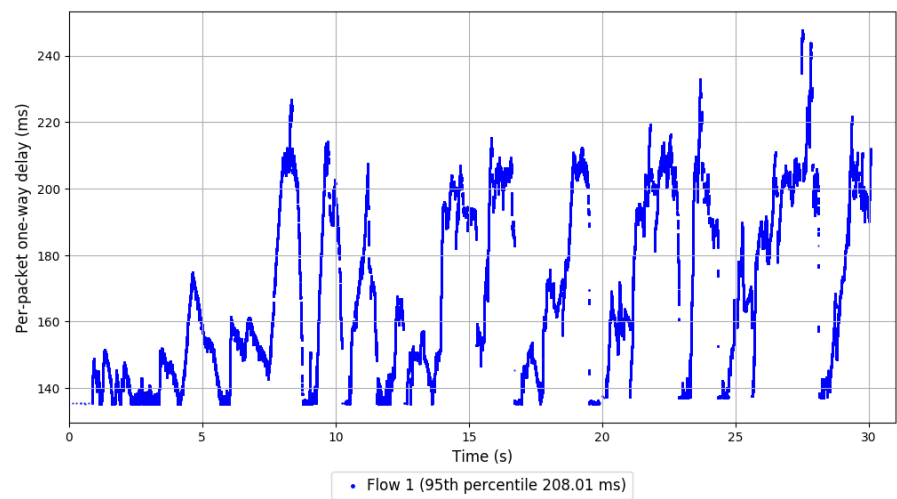
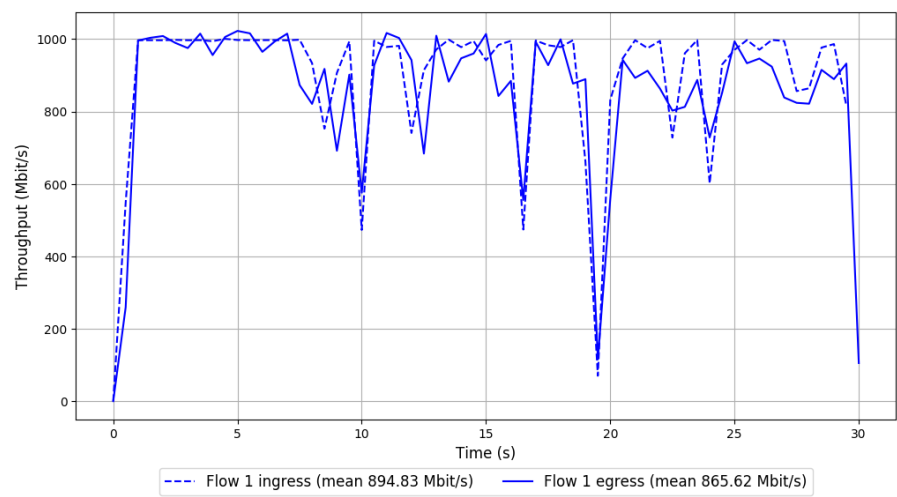
-- Flow 1:

Average throughput: 865.62 Mbit/s

95th percentile per-packet one-way delay: 208.011 ms

Loss rate: 3.26%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2017-12-20 09:52:23

End at: 2017-12-20 09:52:53

Below is generated by plot.py at 2017-12-20 13:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 916.22 Mbit/s

95th percentile per-packet one-way delay: 200.976 ms

Loss rate: 1.31%

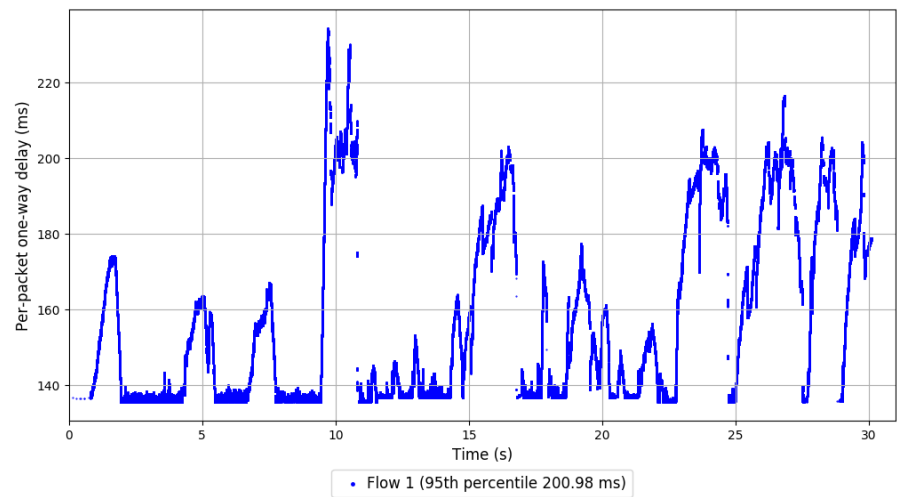
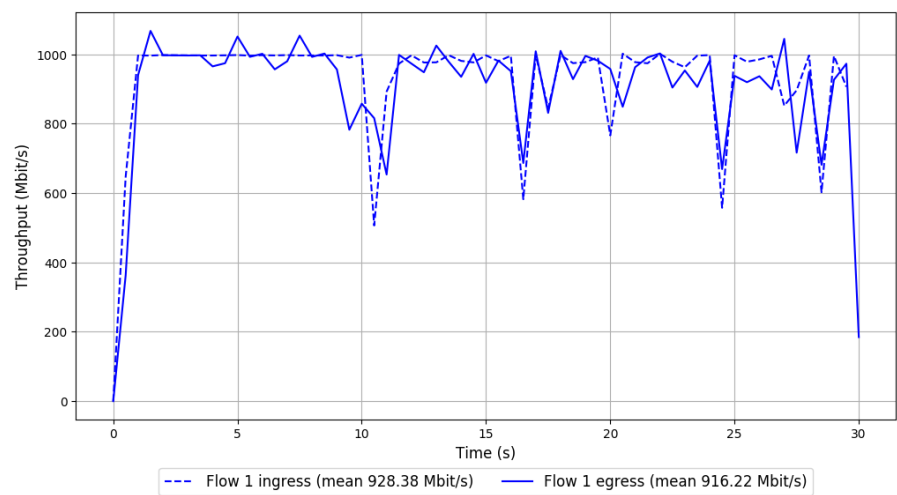
-- Flow 1:

Average throughput: 916.22 Mbit/s

95th percentile per-packet one-way delay: 200.976 ms

Loss rate: 1.31%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2017-12-20 10:04:47

End at: 2017-12-20 10:05:17

Below is generated by plot.py at 2017-12-20 13:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 828.76 Mbit/s

95th percentile per-packet one-way delay: 236.434 ms

Loss rate: 5.25%

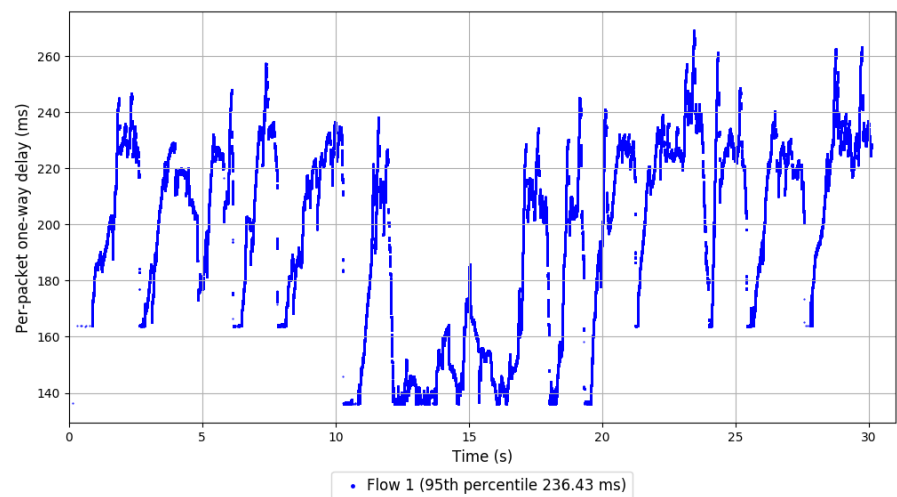
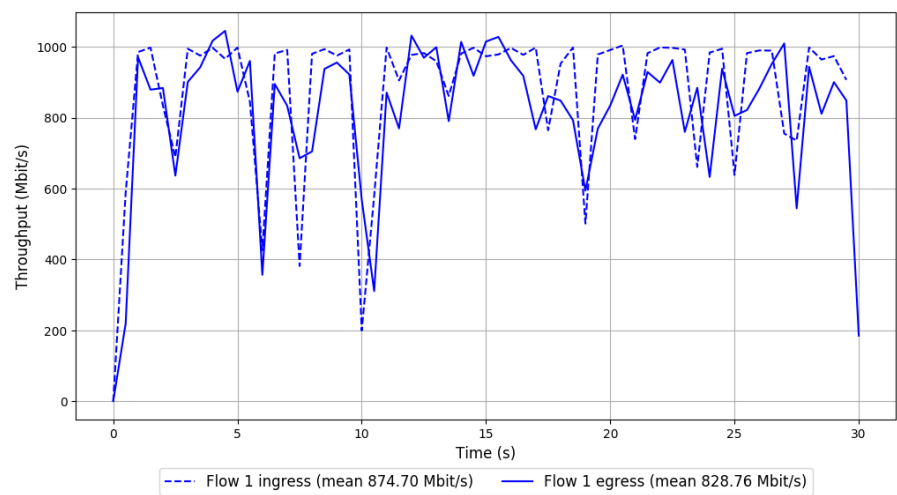
-- Flow 1:

Average throughput: 828.76 Mbit/s

95th percentile per-packet one-way delay: 236.434 ms

Loss rate: 5.25%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2017-12-20 10:17:12

End at: 2017-12-20 10:17:42

Below is generated by plot.py at 2017-12-20 13:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.31 Mbit/s

95th percentile per-packet one-way delay: 211.685 ms

Loss rate: 4.09%

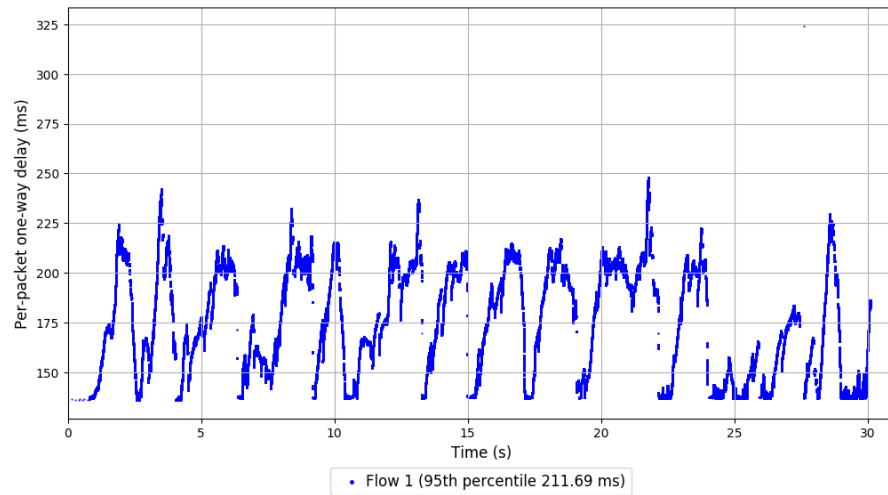
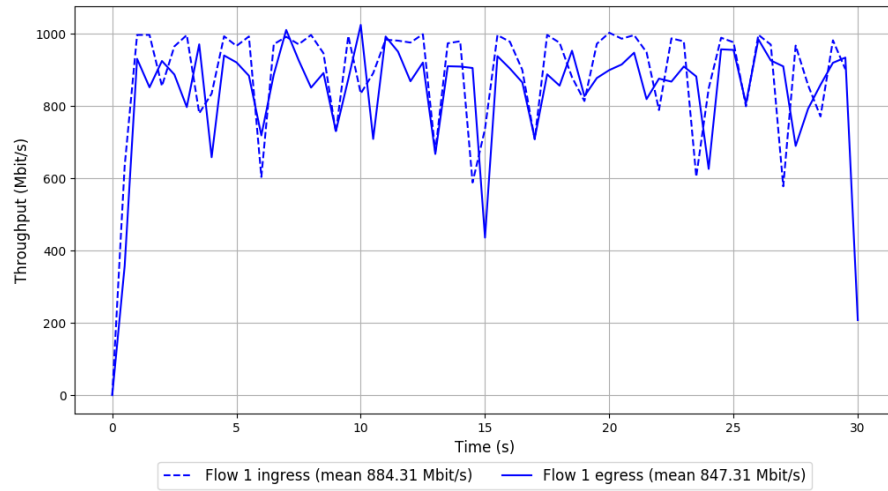
-- Flow 1:

Average throughput: 847.31 Mbit/s

95th percentile per-packet one-way delay: 211.685 ms

Loss rate: 4.09%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2017-12-20 10:30:22

End at: 2017-12-20 10:30:52

Below is generated by plot.py at 2017-12-20 13:01:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 945.03 Mbit/s

95th percentile per-packet one-way delay: 201.328 ms

Loss rate: 0.33%

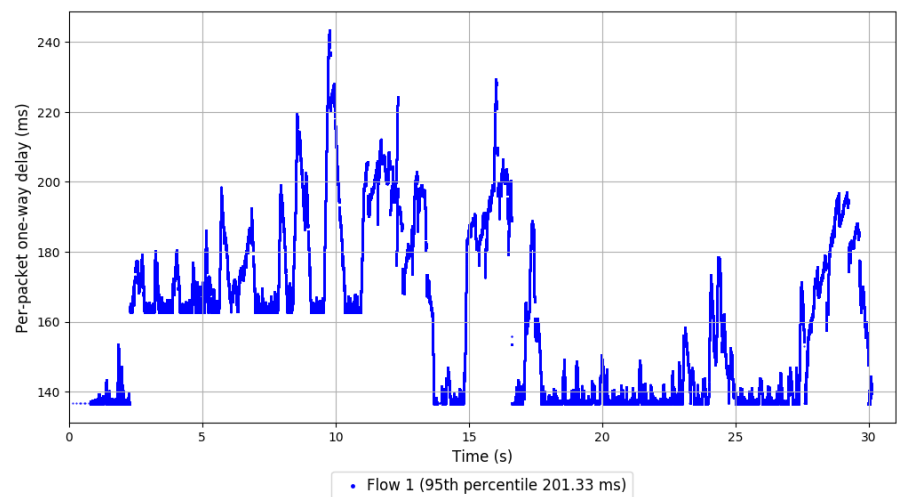
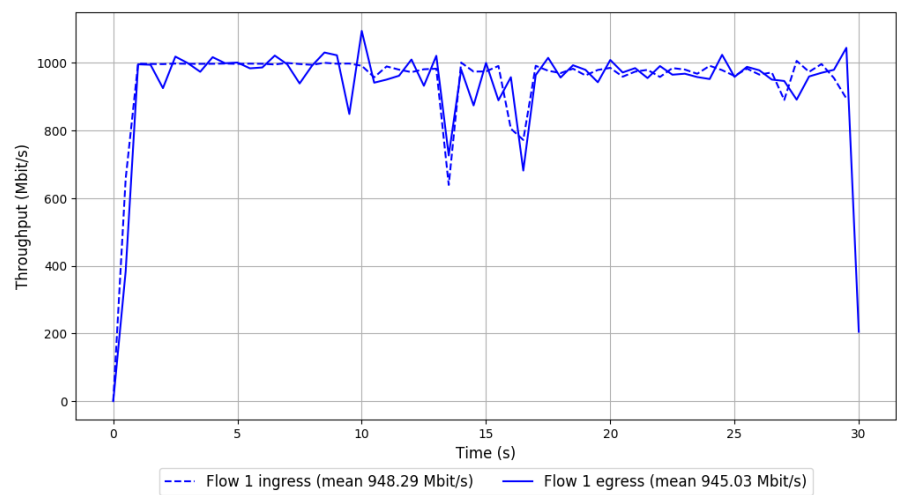
-- Flow 1:

Average throughput: 945.03 Mbit/s

95th percentile per-packet one-way delay: 201.328 ms

Loss rate: 0.33%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2017-12-20 10:43:31

End at: 2017-12-20 10:44:01

Below is generated by plot.py at 2017-12-20 13:02:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 950.94 Mbit/s

95th percentile per-packet one-way delay: 216.758 ms

Loss rate: 0.65%

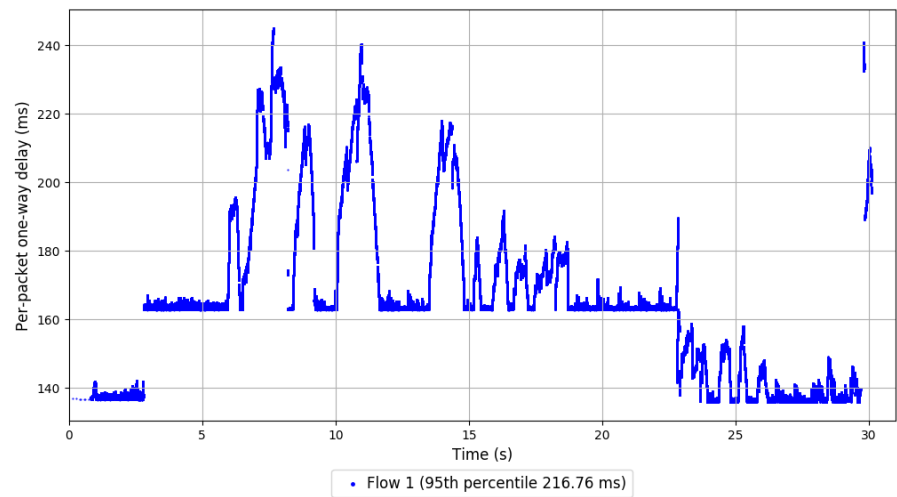
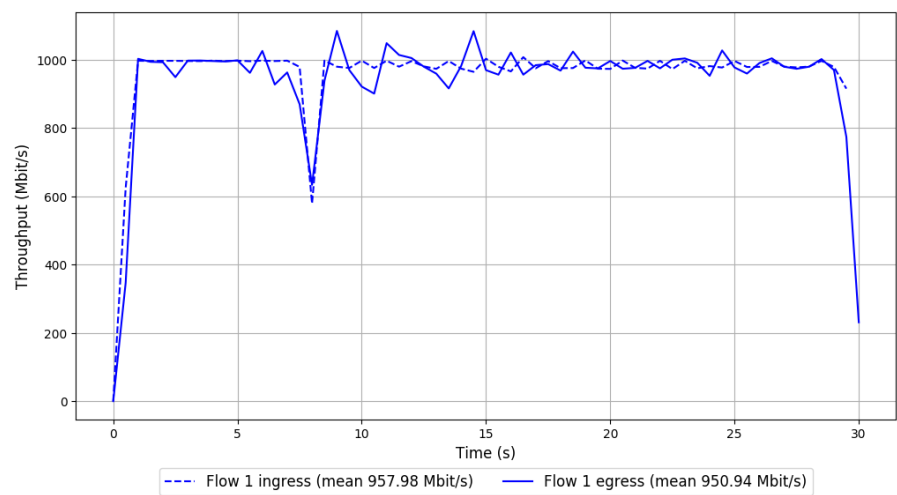
-- Flow 1:

Average throughput: 950.94 Mbit/s

95th percentile per-packet one-way delay: 216.758 ms

Loss rate: 0.65%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2017-12-20 10:56:23

End at: 2017-12-20 10:56:53

Below is generated by plot.py at 2017-12-20 13:03:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 962.44 Mbit/s

95th percentile per-packet one-way delay: 180.630 ms

Loss rate: 0.07%

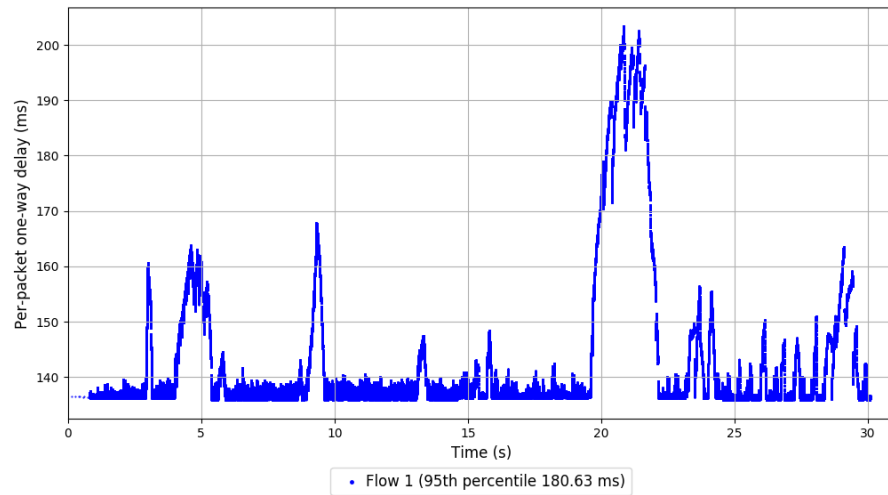
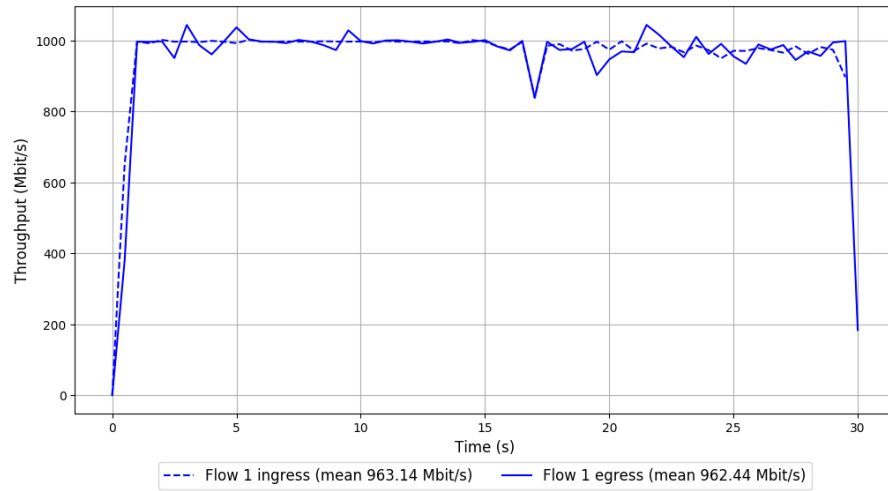
-- Flow 1:

Average throughput: 962.44 Mbit/s

95th percentile per-packet one-way delay: 180.630 ms

Loss rate: 0.07%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2017-12-20 11:08:35

End at: 2017-12-20 11:09:05

Below is generated by plot.py at 2017-12-20 13:06:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 952.93 Mbit/s

95th percentile per-packet one-way delay: 182.208 ms

Loss rate: 0.09%

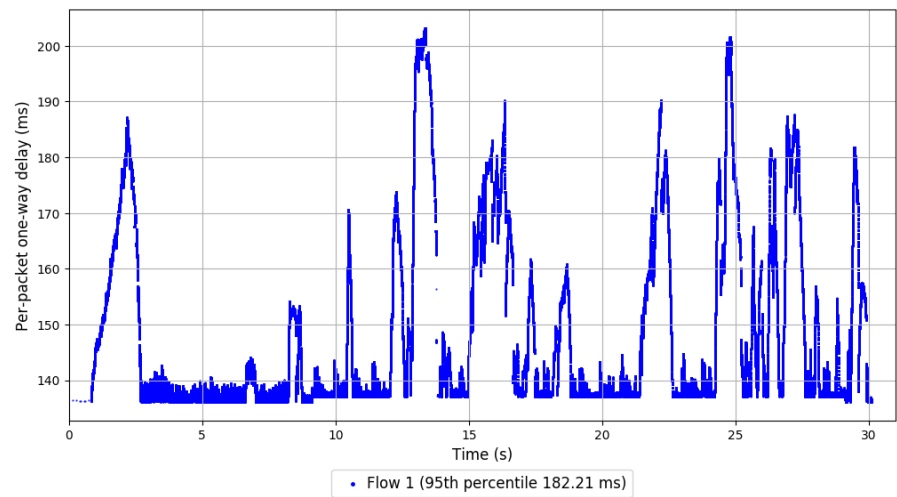
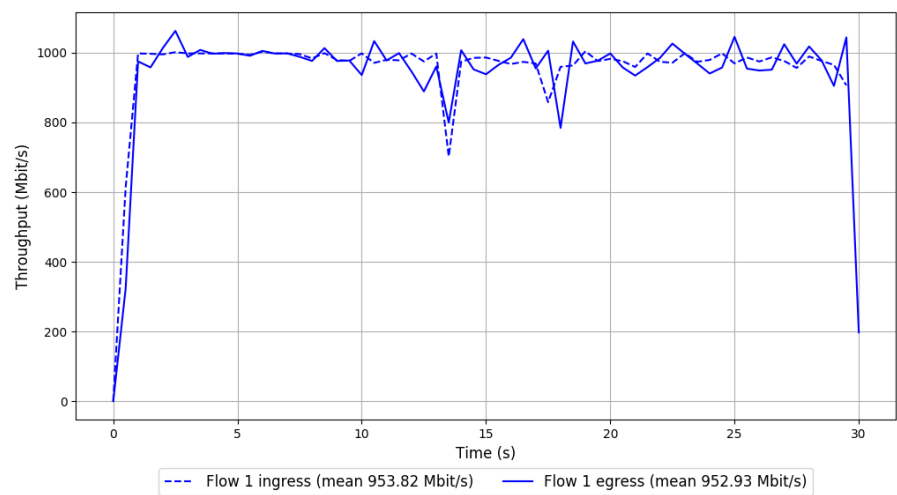
-- Flow 1:

Average throughput: 952.93 Mbit/s

95th percentile per-packet one-way delay: 182.208 ms

Loss rate: 0.09%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2017-12-20 11:21:15

End at: 2017-12-20 11:21:45

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 936.69 Mbit/s

95th percentile per-packet one-way delay: 152.810 ms

Loss rate: 0.20%

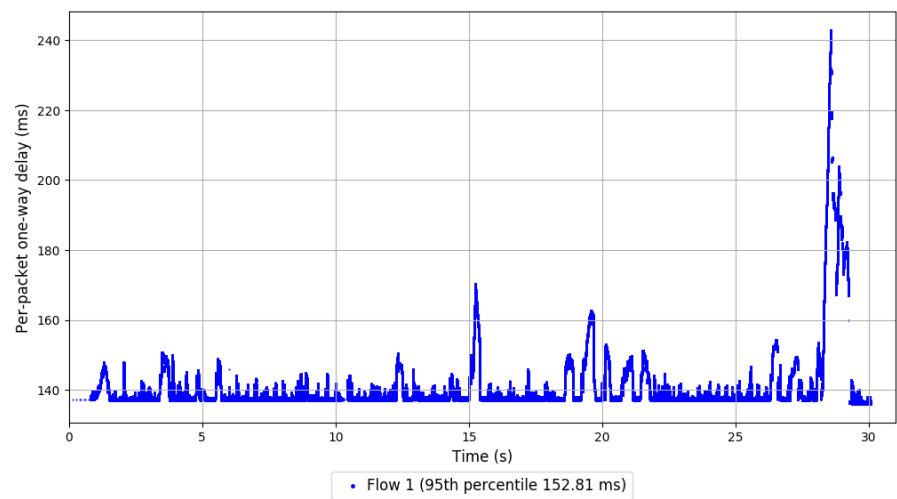
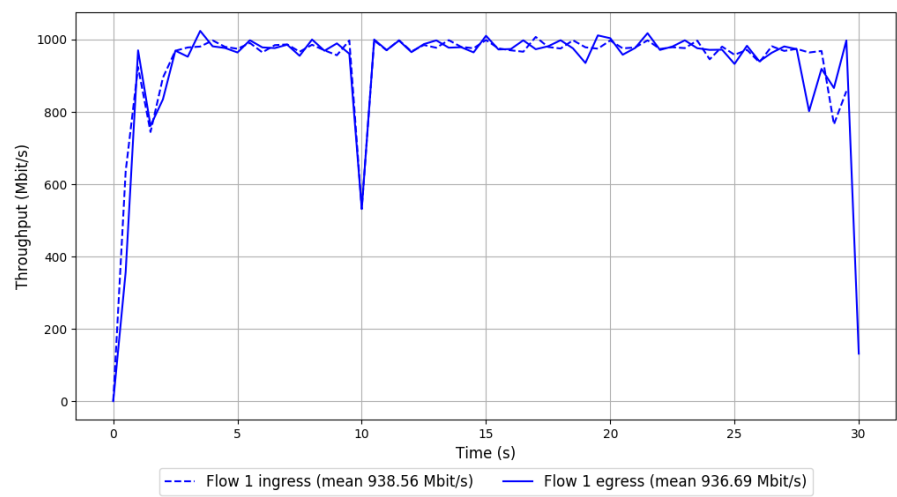
-- Flow 1:

Average throughput: 936.69 Mbit/s

95th percentile per-packet one-way delay: 152.810 ms

Loss rate: 0.20%

Run 10: Report of FillP — Data Link

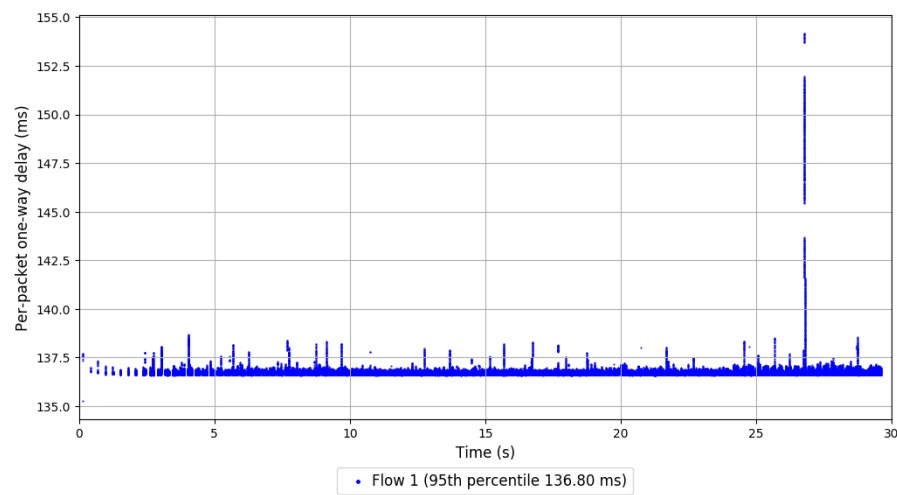
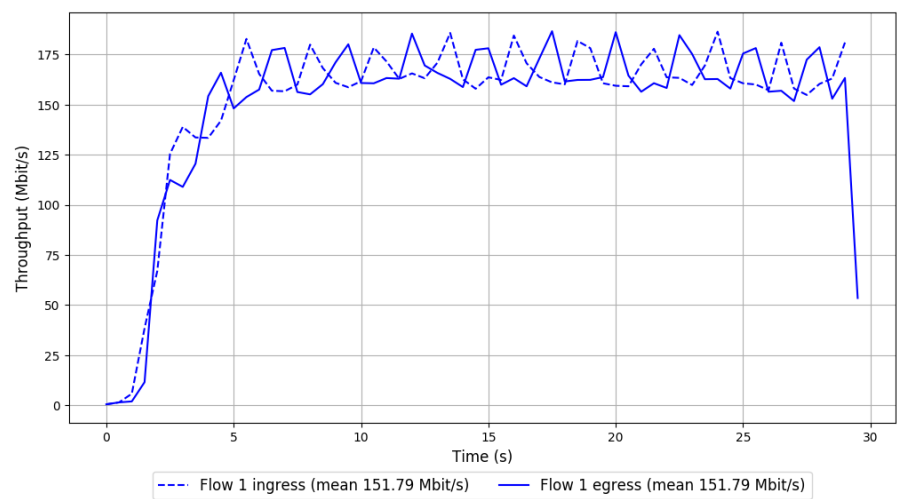


```
Run 1: Statistics of Indigo

Start at: 2017-12-20 09:28:51
End at: 2017-12-20 09:29:21

# Below is generated by plot.py at 2017-12-20 13:06:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.79 Mbit/s
95th percentile per-packet one-way delay: 136.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.79 Mbit/s
95th percentile per-packet one-way delay: 136.802 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-20 09:41:56

End at: 2017-12-20 09:42:26

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 136.841 ms

Loss rate: 0.24%

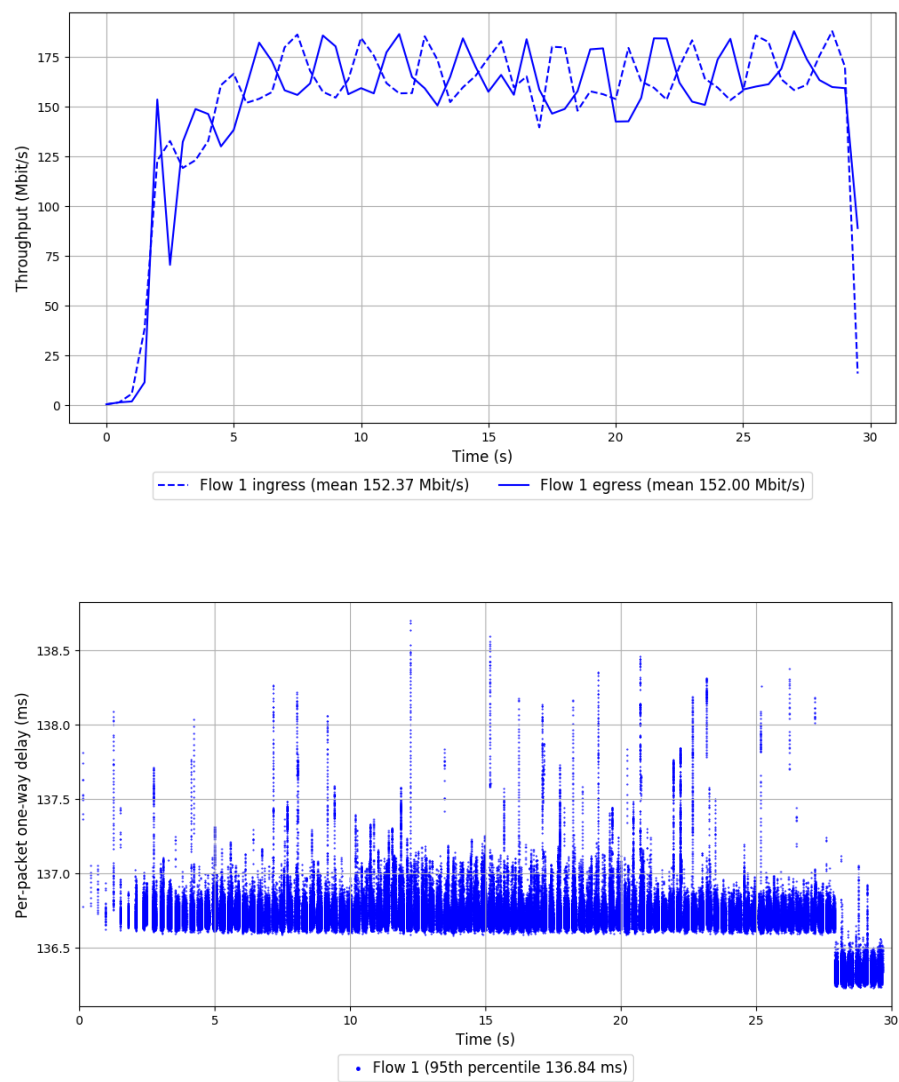
-- Flow 1:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 136.841 ms

Loss rate: 0.24%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-20 09:54:35

End at: 2017-12-20 09:55:05

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.23 Mbit/s

95th percentile per-packet one-way delay: 165.822 ms

Loss rate: 0.18%

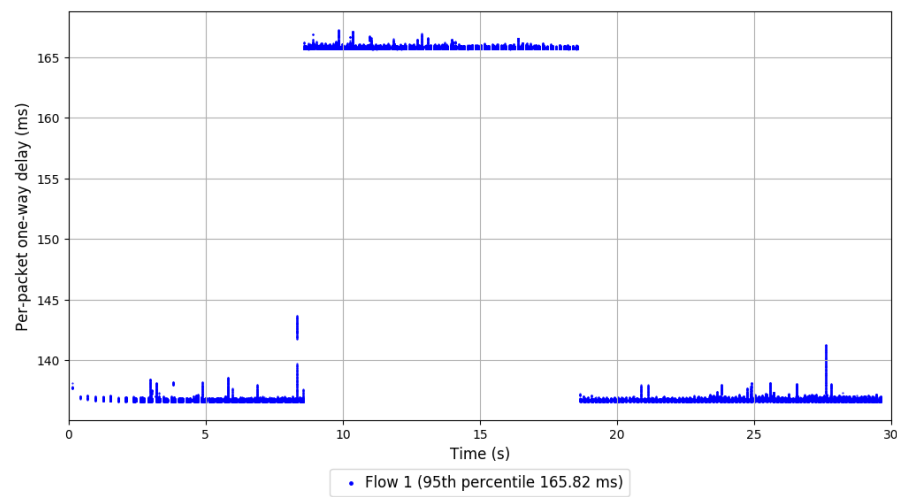
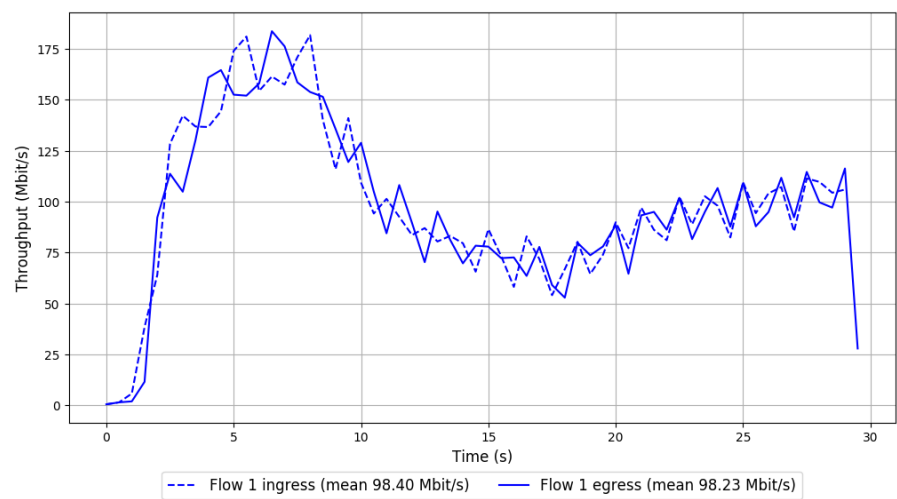
-- Flow 1:

Average throughput: 98.23 Mbit/s

95th percentile per-packet one-way delay: 165.822 ms

Loss rate: 0.18%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-20 10:06:55

End at: 2017-12-20 10:07:25

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 136.804 ms

Loss rate: 0.00%

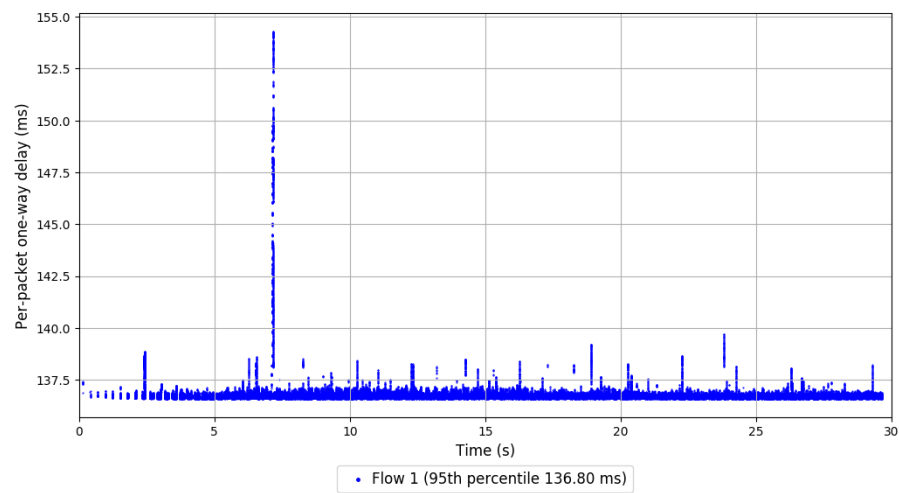
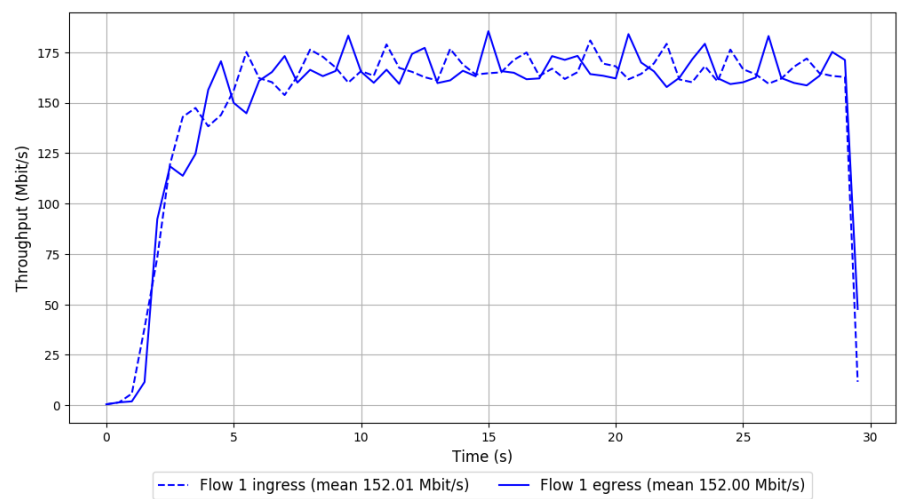
-- Flow 1:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 136.804 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-20 10:19:39

End at: 2017-12-20 10:20:09

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.14 Mbit/s

95th percentile per-packet one-way delay: 136.785 ms

Loss rate: 0.13%

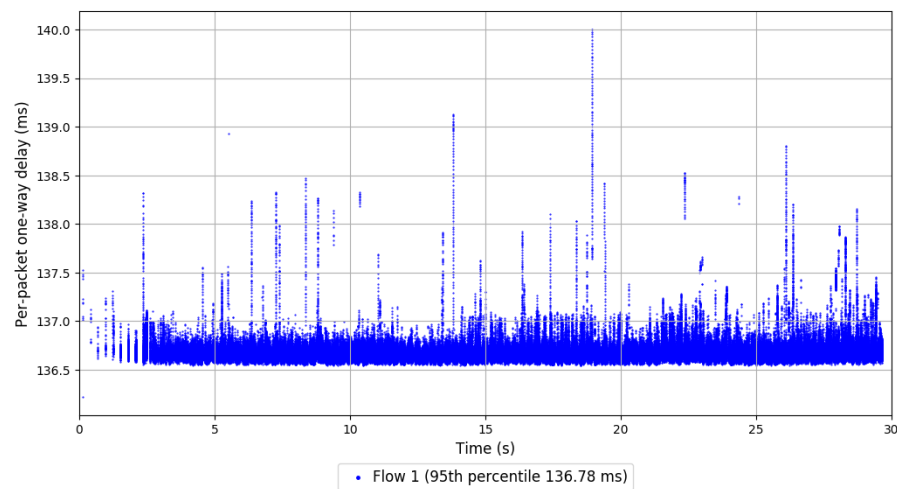
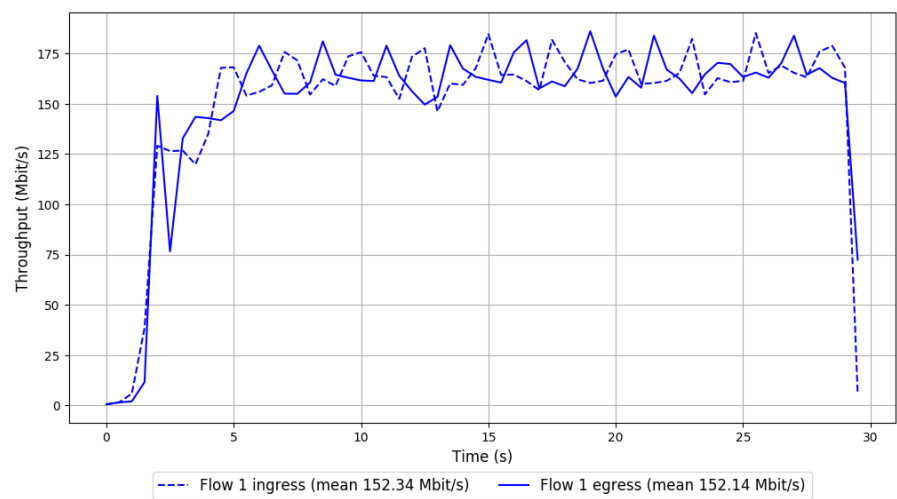
-- Flow 1:

Average throughput: 152.14 Mbit/s

95th percentile per-packet one-way delay: 136.785 ms

Loss rate: 0.13%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-20 10:32:46

End at: 2017-12-20 10:33:16

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.62 Mbit/s

95th percentile per-packet one-way delay: 161.017 ms

Loss rate: 0.00%

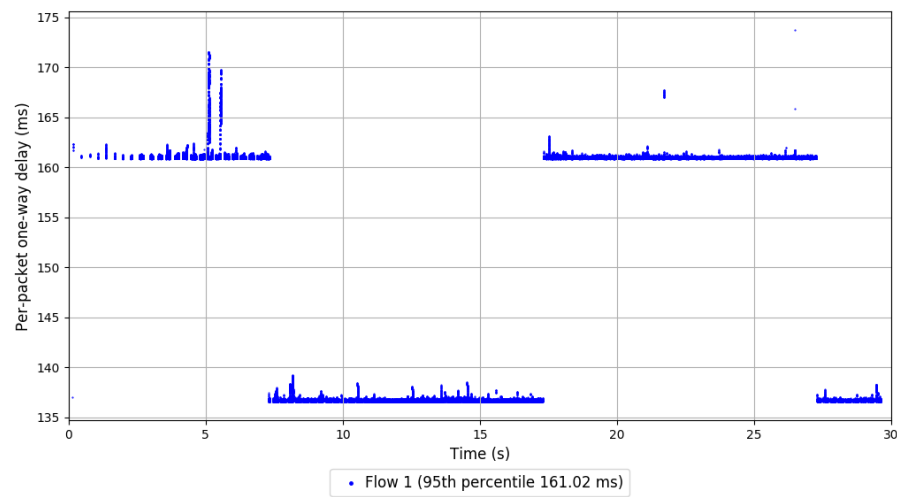
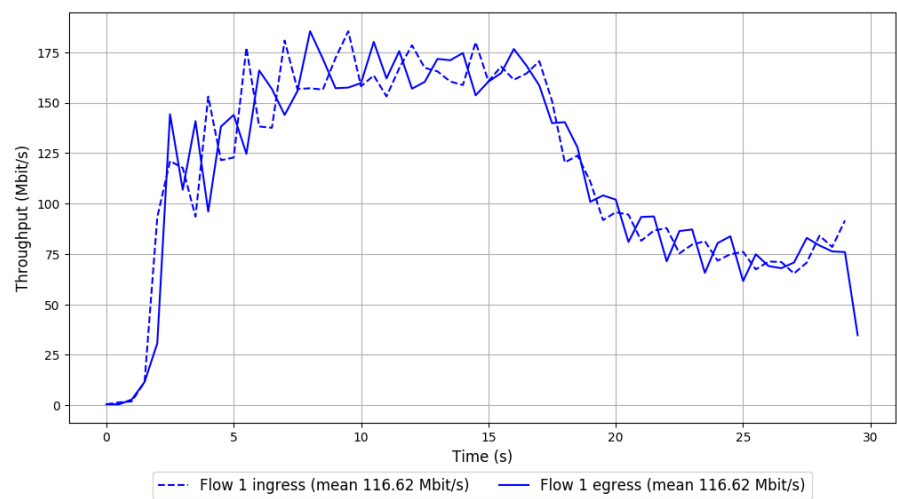
-- Flow 1:

Average throughput: 116.62 Mbit/s

95th percentile per-packet one-way delay: 161.017 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-20 10:45:49

End at: 2017-12-20 10:46:19

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.78 Mbit/s

95th percentile per-packet one-way delay: 161.023 ms

Loss rate: 0.32%

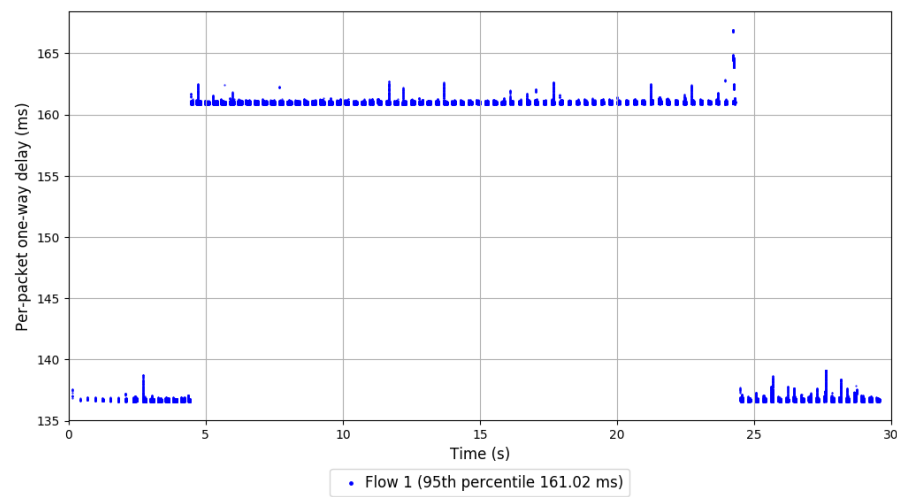
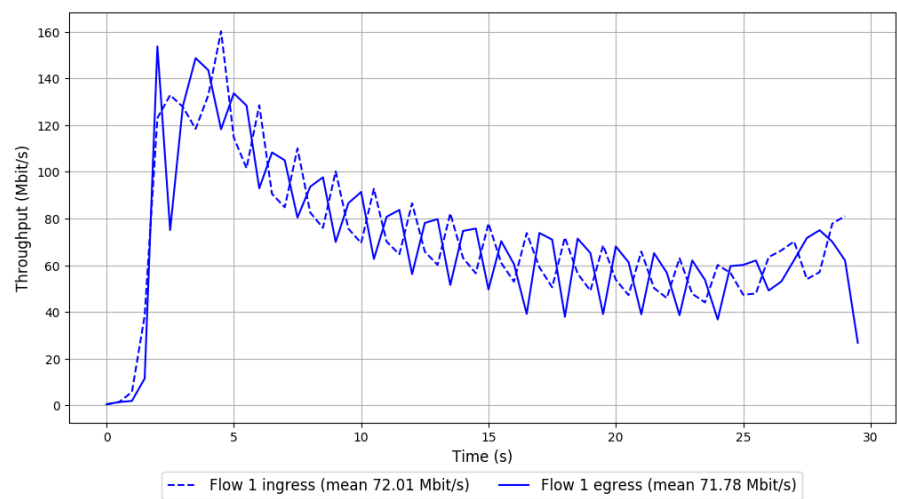
-- Flow 1:

Average throughput: 71.78 Mbit/s

95th percentile per-packet one-way delay: 161.023 ms

Loss rate: 0.32%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-20 10:58:38

End at: 2017-12-20 10:59:08

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.68 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 0.39%

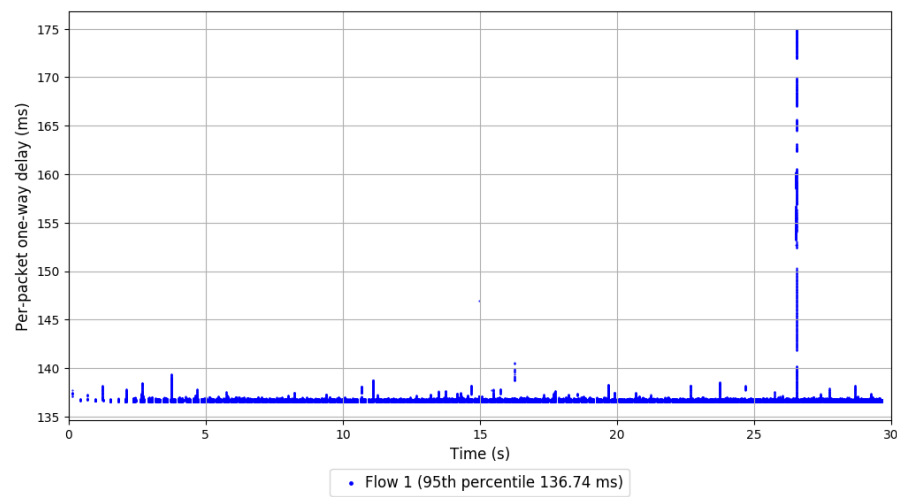
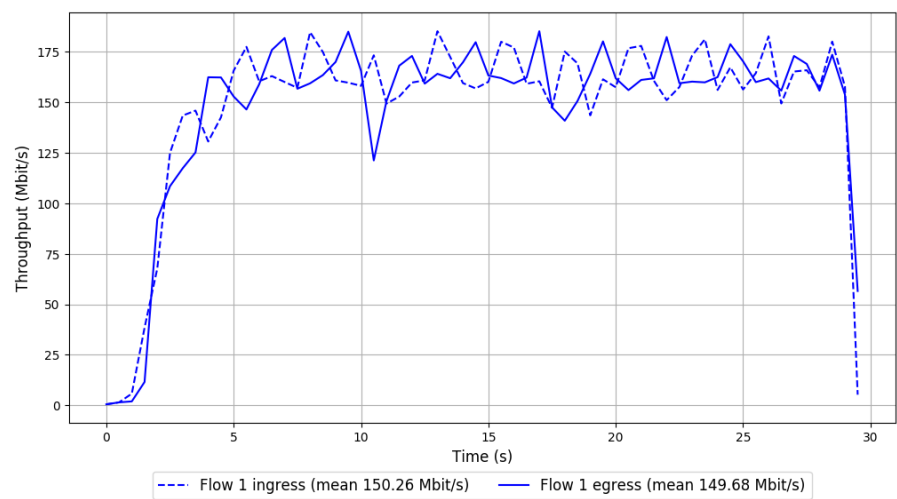
-- Flow 1:

Average throughput: 149.68 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 0.39%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-20 11:11:03

End at: 2017-12-20 11:11:33

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.08 Mbit/s

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

Loss rate: 0.05%

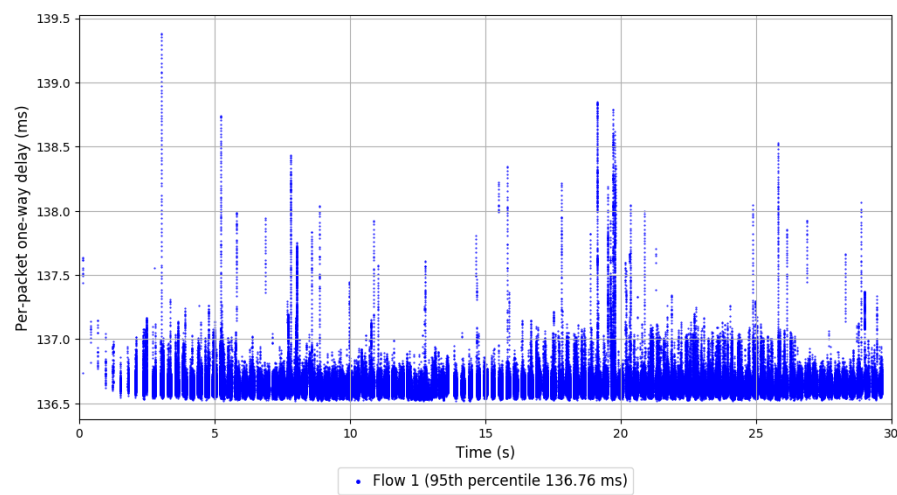
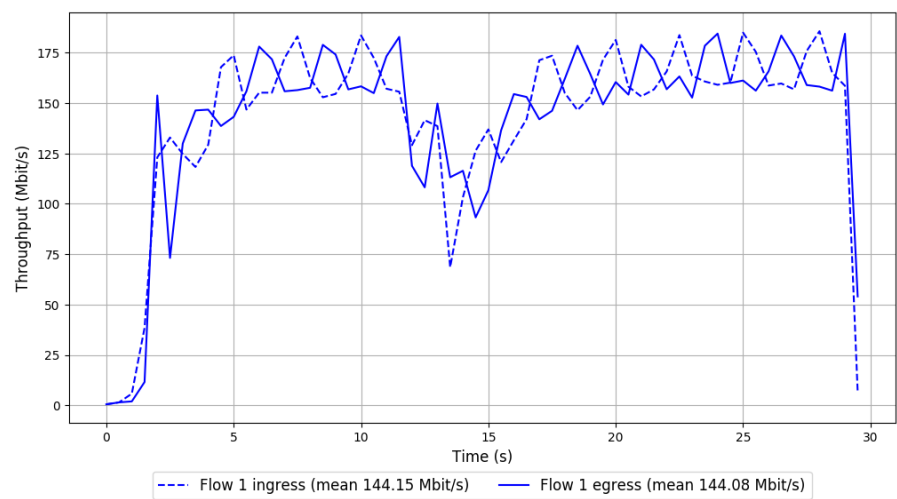
-- Flow 1:

Average throughput: 144.08 Mbit/s

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

Loss rate: 0.05%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-20 11:23:26

End at: 2017-12-20 11:23:56

Below is generated by plot.py at 2017-12-20 13:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.32 Mbit/s

95th percentile per-packet one-way delay: 160.922 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 150.32 Mbit/s

95th percentile per-packet one-way delay: 160.922 ms

Loss rate: 0.14%

Run 10: Report of Indigo — Data Link

