

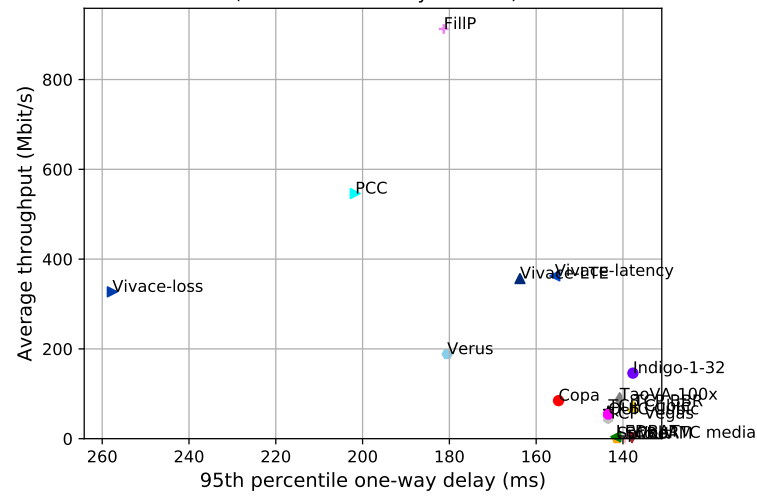
Pantheon Report

Generated at 2018-02-16 21:24:49 (UTC).
Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 17 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**).

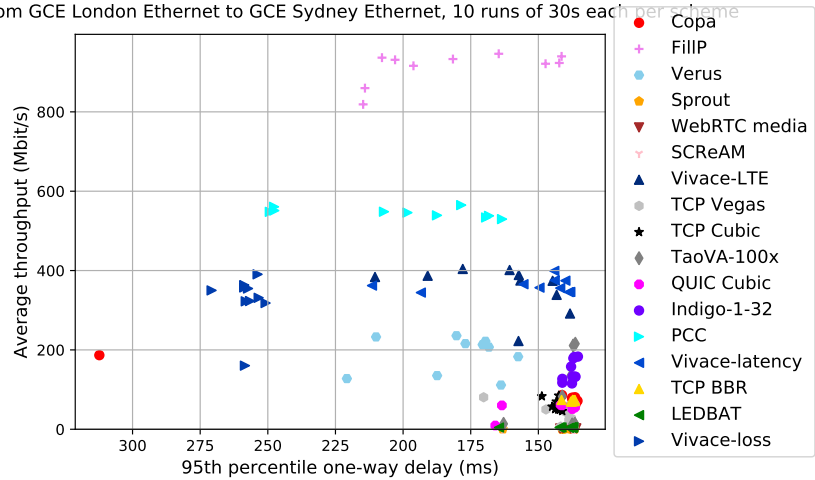
Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
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 @ f1a14bffe749737437f61b1eae30b267cde681
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	72.11	137.53	0.97
TCP Cubic	10	61.54	143.37	1.09
LEDBAT	10	4.36	141.65	1.86
PCC	10	545.95	201.69	2.49
QUIC Cubic	10	54.29	143.39	1.25
SCReAM	10	0.22	139.56	0.93
WebRTC media	10	2.07	137.91	1.10
Sprout	10	0.38	141.37	1.02
TaoVA-100x	8	86.95	140.74	0.60
TCP Vegas	10	44.79	143.41	0.79
Verus	10	188.36	180.51	1.49
Copa	10	84.74	154.84	4.47
FillP	10	912.63	181.30	2.12
Indigo-1-32	10	146.01	137.71	0.95
Vivace-latency	10	362.57	155.71	1.22
Vivace-loss	10	327.13	257.67	5.06
Vivace-LTE	10	356.74	163.73	1.62

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 14:45:44

End at: 2018-02-16 14:46:14

Below is generated by plot.py at 2018-02-16 20:11:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 137.184 ms

Loss rate: 0.99%

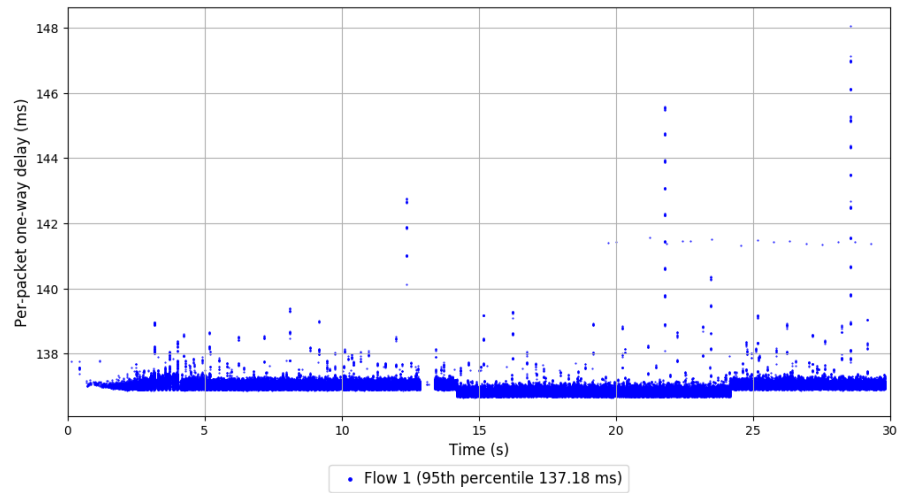
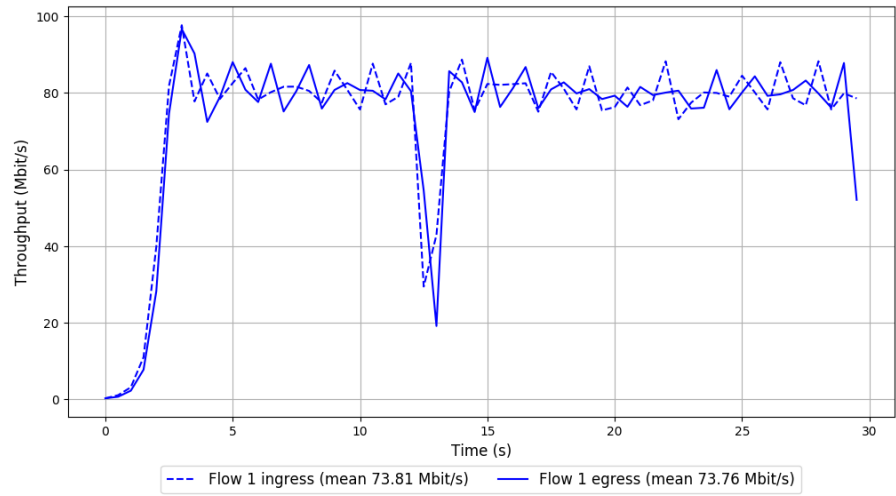
-- Flow 1:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 137.184 ms

Loss rate: 0.99%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-16 15:02:00

End at: 2018-02-16 15:02:30

Below is generated by plot.py at 2018-02-16 20:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.12 Mbit/s

95th percentile per-packet one-way delay: 137.334 ms

Loss rate: 0.99%

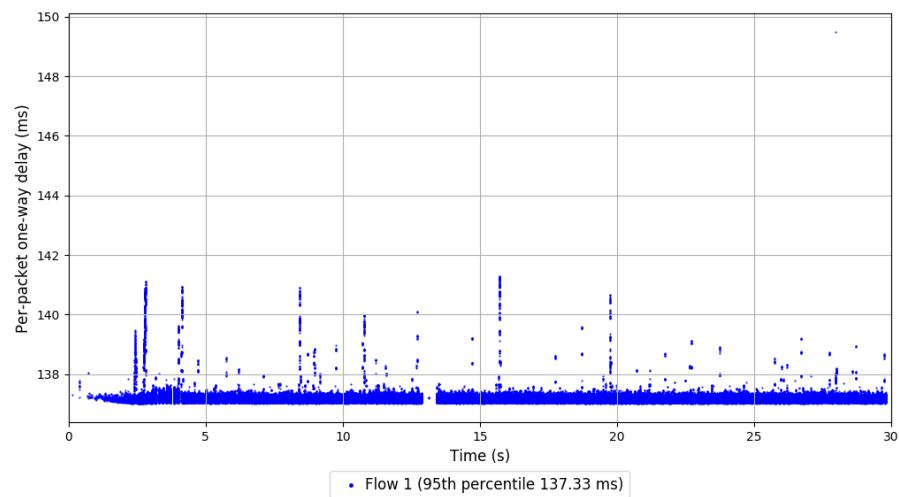
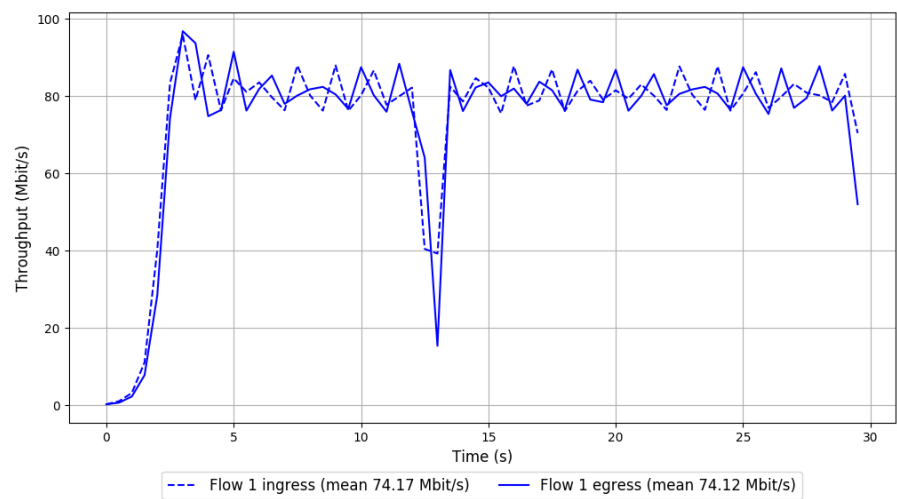
-- Flow 1:

Average throughput: 74.12 Mbit/s

95th percentile per-packet one-way delay: 137.334 ms

Loss rate: 0.99%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-16 15:18:24

End at: 2018-02-16 15:18:54

Below is generated by plot.py at 2018-02-16 20:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 141.426 ms

Loss rate: 0.96%

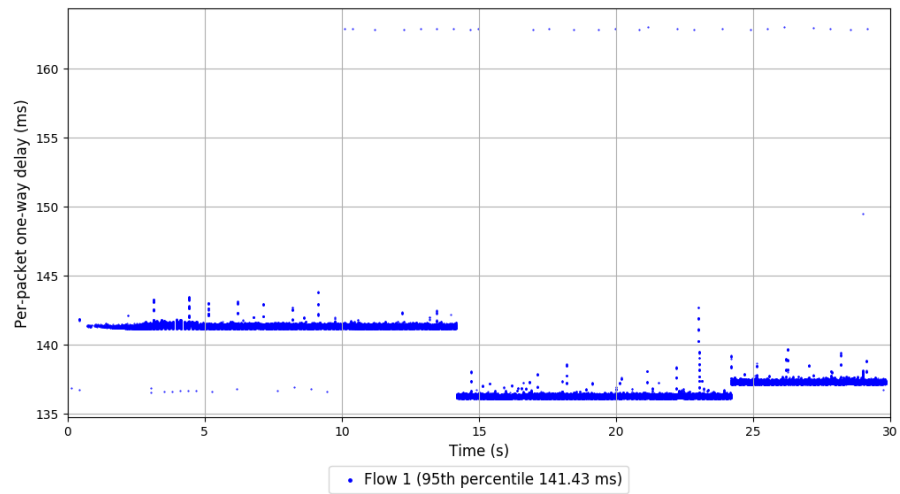
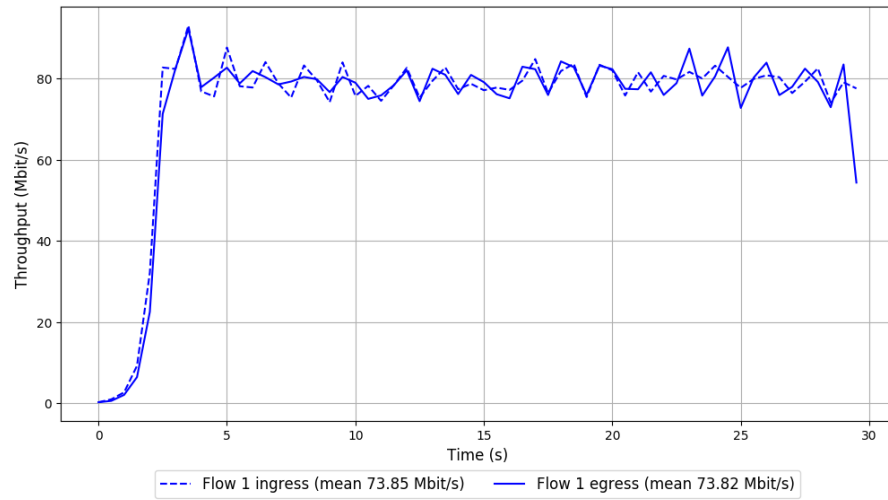
-- Flow 1:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 141.426 ms

Loss rate: 0.96%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-16 15:34:26

End at: 2018-02-16 15:34:56

Below is generated by plot.py at 2018-02-16 20:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.12 Mbit/s

95th percentile per-packet one-way delay: 137.555 ms

Loss rate: 0.50%

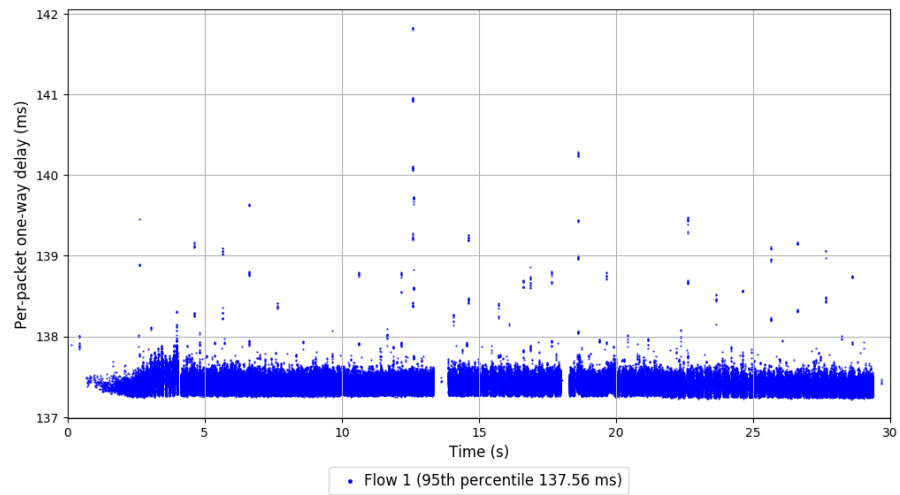
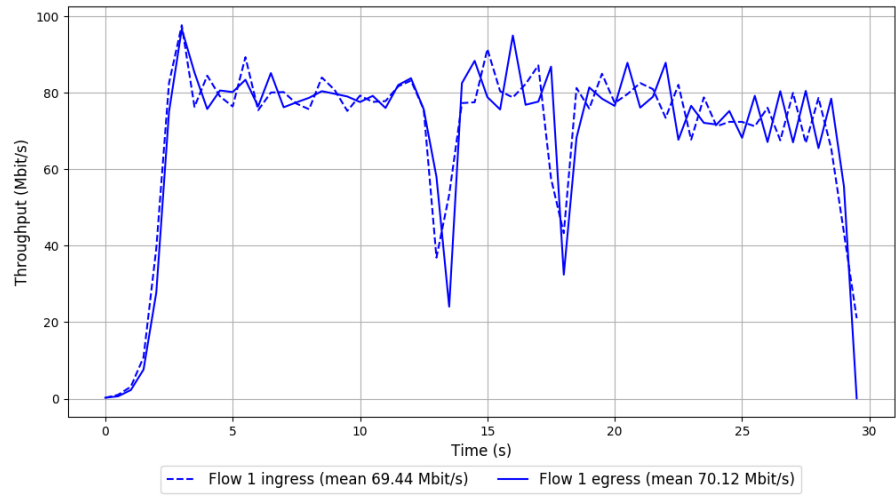
-- Flow 1:

Average throughput: 70.12 Mbit/s

95th percentile per-packet one-way delay: 137.555 ms

Loss rate: 0.50%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-16 15:50:43

End at: 2018-02-16 15:51:13

Below is generated by plot.py at 2018-02-16 20:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.81 Mbit/s

95th percentile per-packet one-way delay: 137.986 ms

Loss rate: 1.07%

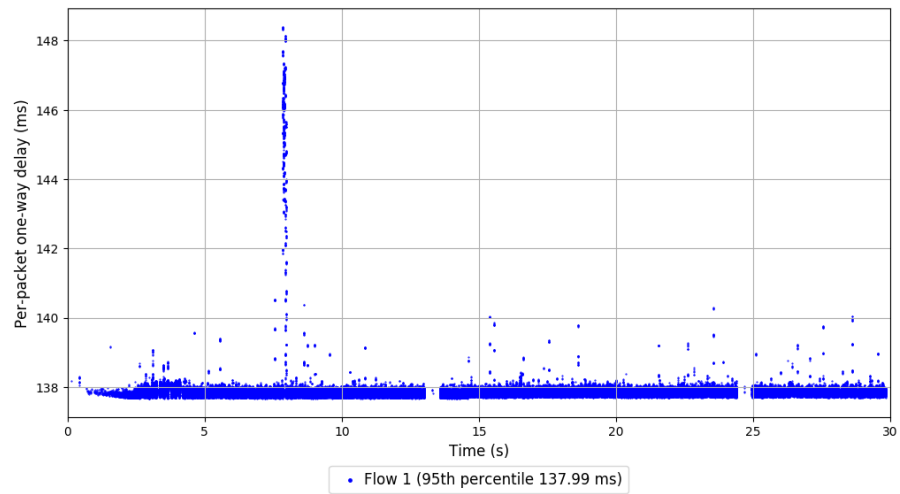
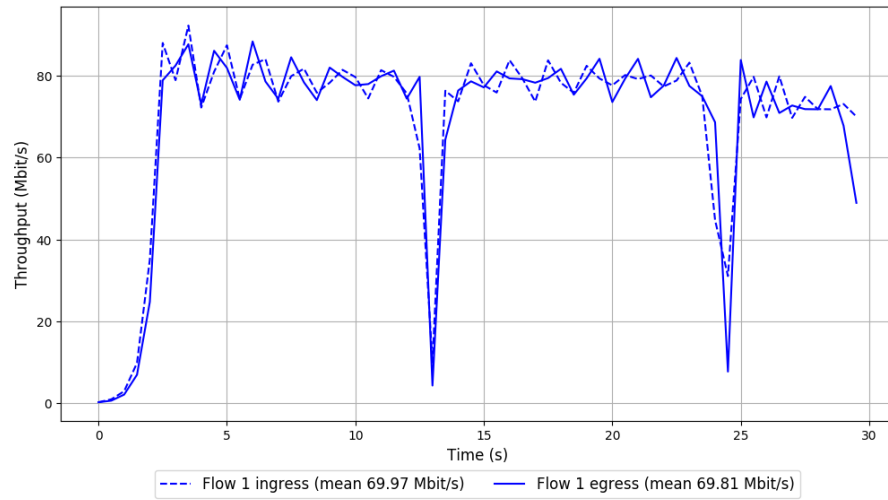
-- Flow 1:

Average throughput: 69.81 Mbit/s

95th percentile per-packet one-way delay: 137.986 ms

Loss rate: 1.07%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 16:07:09

End at: 2018-02-16 16:07:39

Below is generated by plot.py at 2018-02-16 20:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 137.353 ms

Loss rate: 1.05%

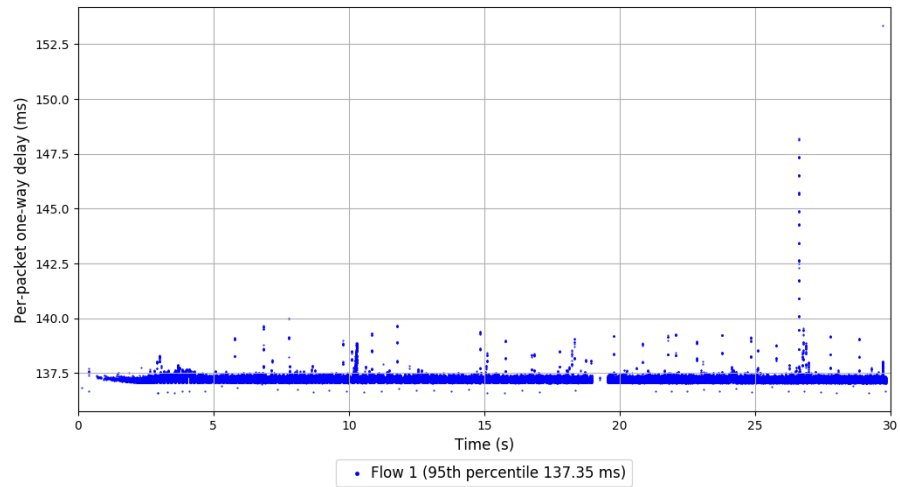
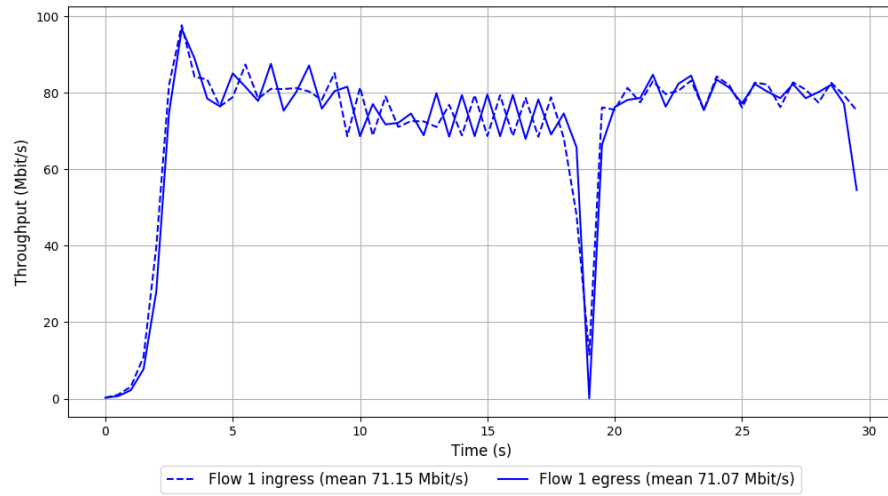
-- Flow 1:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 137.353 ms

Loss rate: 1.05%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-16 16:23:40

End at: 2018-02-16 16:24:10

Below is generated by plot.py at 2018-02-16 20:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.04 Mbit/s

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

Loss rate: 1.04%

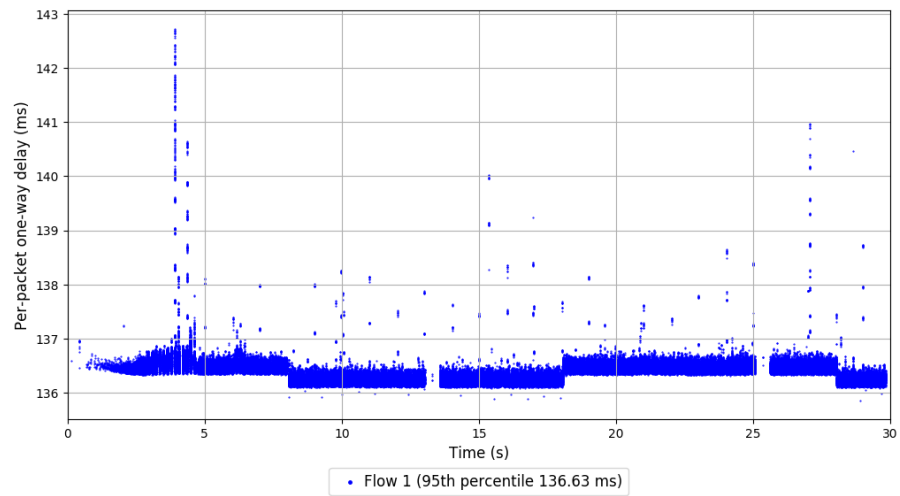
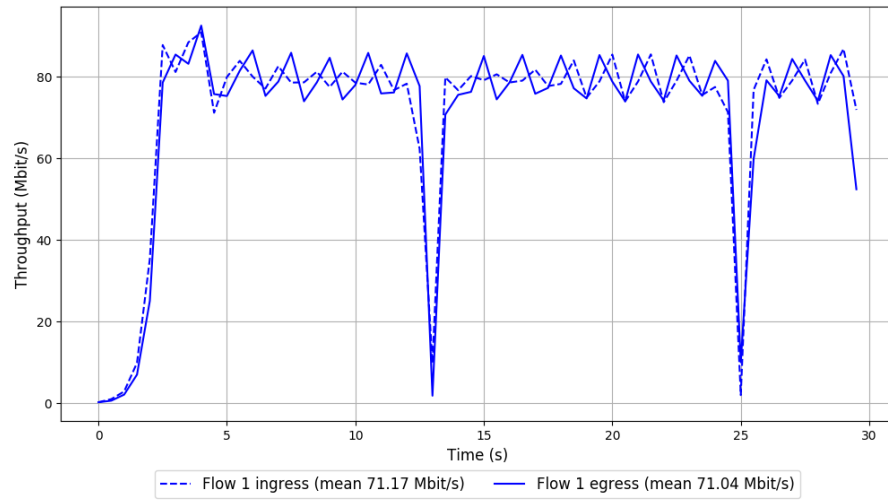
-- Flow 1:

Average throughput: 71.04 Mbit/s

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

Loss rate: 1.04%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 16:39:43

End at: 2018-02-16 16:40:13

Below is generated by plot.py at 2018-02-16 20:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 136.599 ms

Loss rate: 1.06%

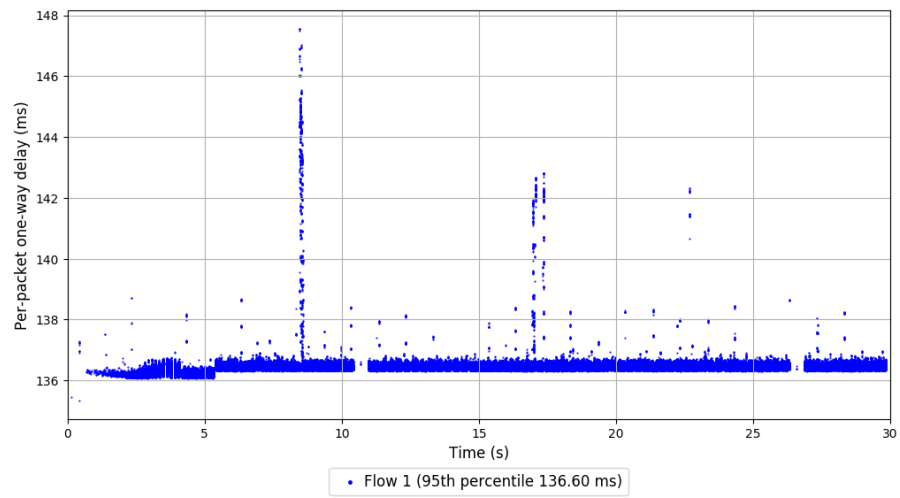
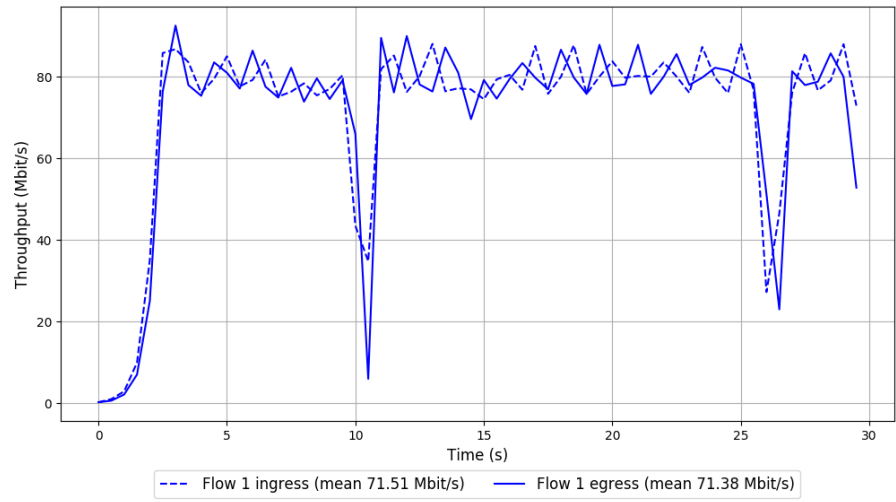
-- Flow 1:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 136.599 ms

Loss rate: 1.06%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 16:55:59

End at: 2018-02-16 16:56:29

Below is generated by plot.py at 2018-02-16 20:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.97%

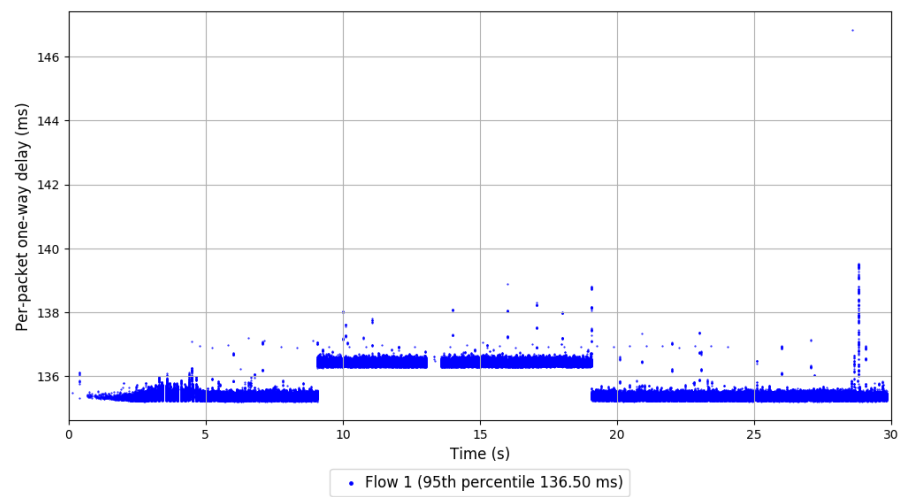
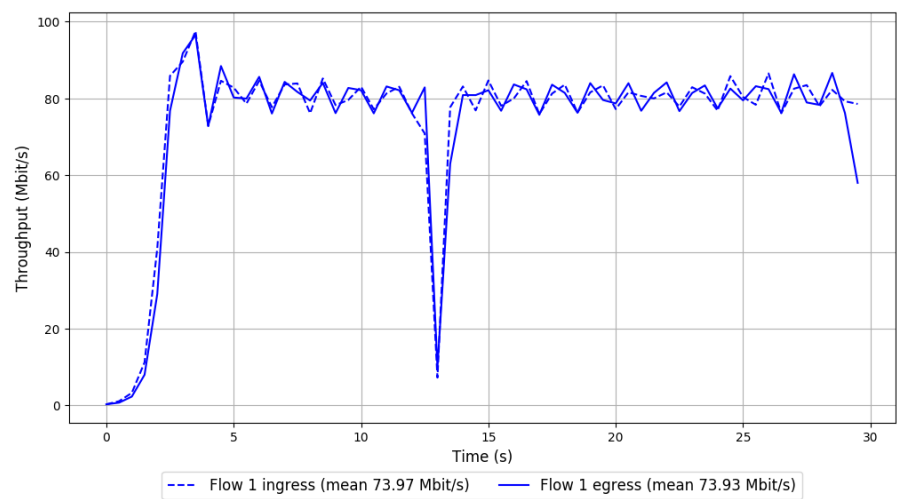
-- Flow 1:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.97%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 17:12:01

End at: 2018-02-16 17:12:31

Below is generated by plot.py at 2018-02-16 20:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 136.759 ms

Loss rate: 1.04%

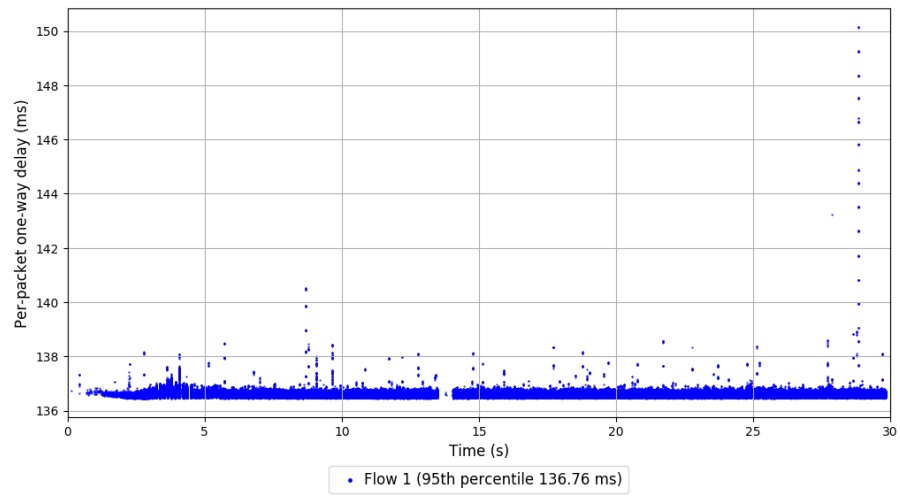
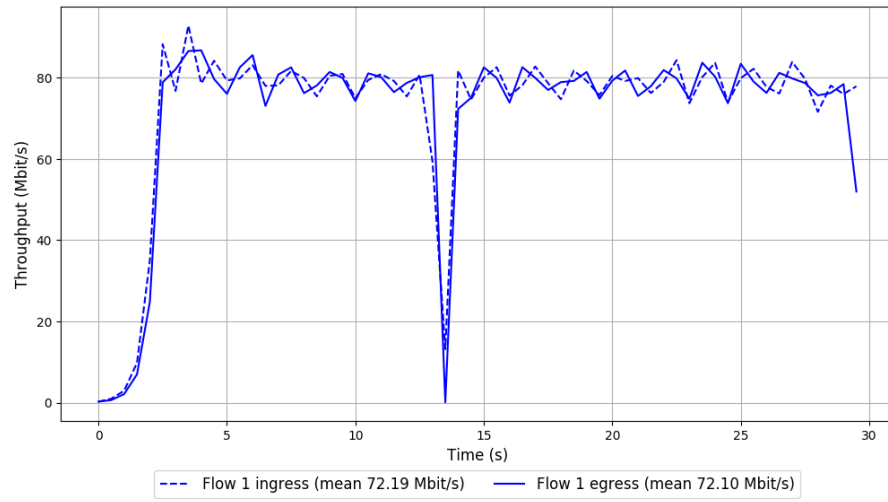
-- Flow 1:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 136.759 ms

Loss rate: 1.04%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 14:40:22

End at: 2018-02-16 14:40:52

Below is generated by plot.py at 2018-02-16 20:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 142.094 ms

Loss rate: 1.66%

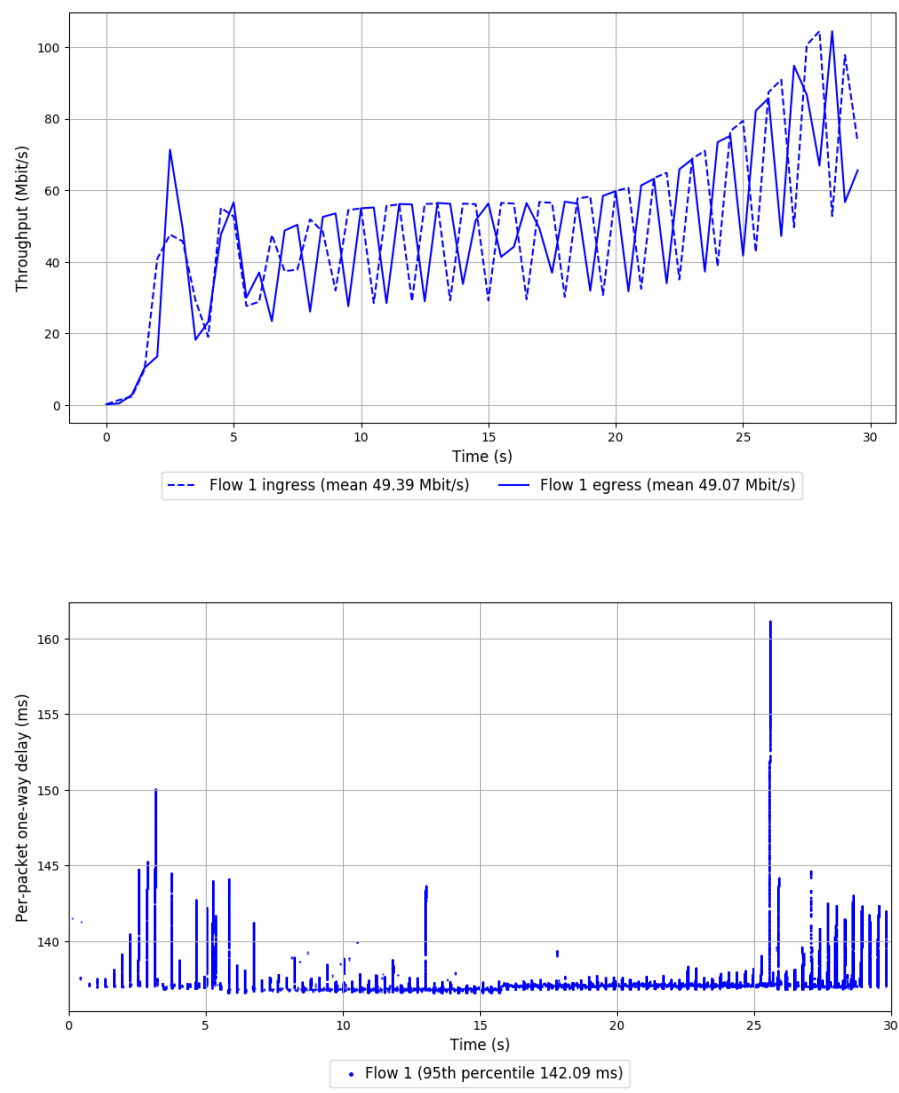
-- Flow 1:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 142.094 ms

Loss rate: 1.66%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-16 14:56:41

End at: 2018-02-16 14:57:11

Below is generated by plot.py at 2018-02-16 20:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 143.779 ms

Loss rate: 0.87%

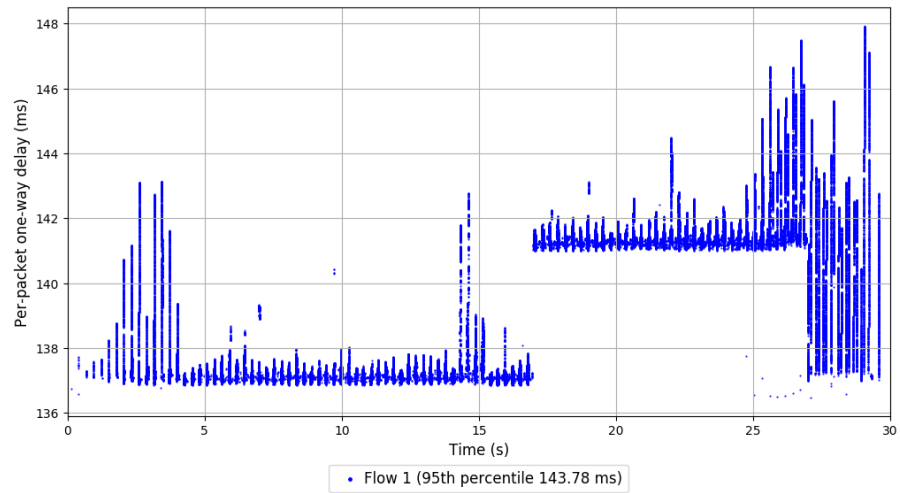
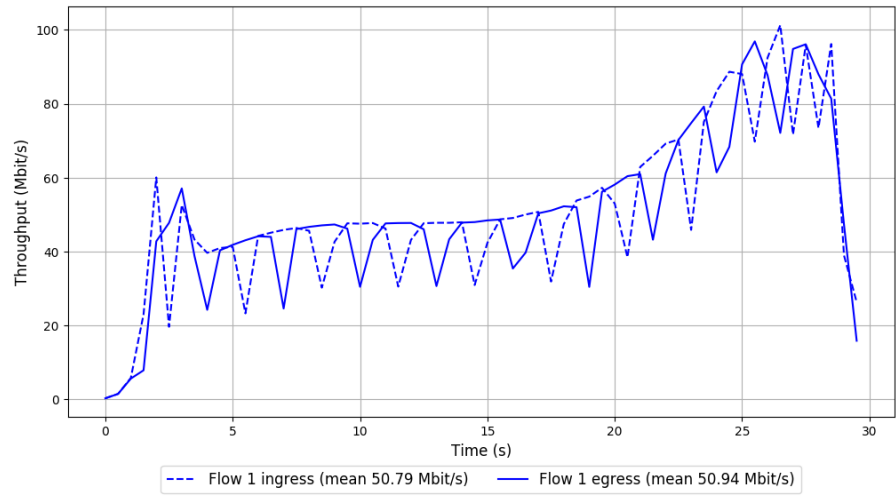
-- Flow 1:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 143.779 ms

Loss rate: 0.87%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 15:13:03

End at: 2018-02-16 15:13:33

Below is generated by plot.py at 2018-02-16 20:12:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 148.719 ms

Loss rate: 1.00%

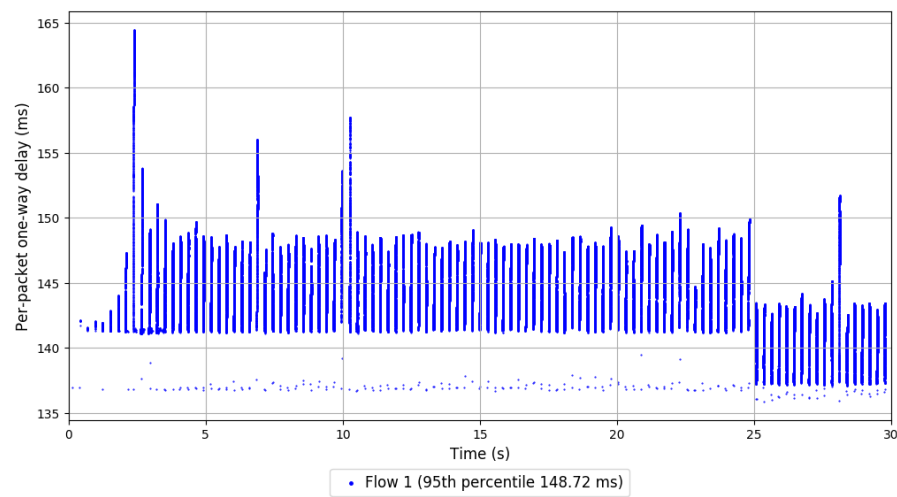
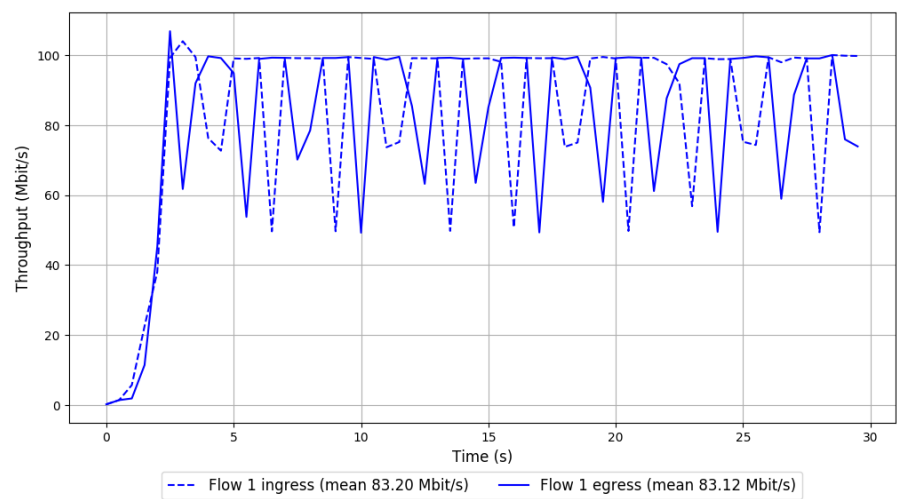
-- Flow 1:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 148.719 ms

Loss rate: 1.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 15:29:04

End at: 2018-02-16 15:29:34

Below is generated by plot.py at 2018-02-16 20:12:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 142.787 ms

Loss rate: 0.59%

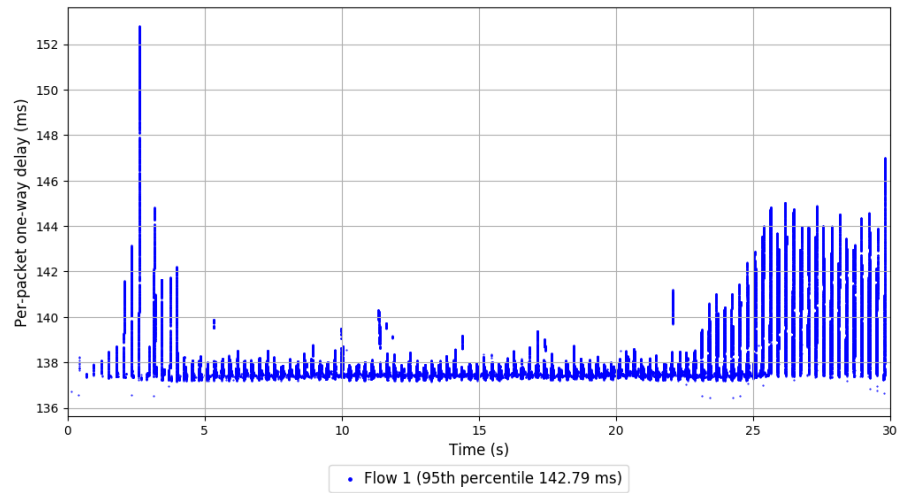
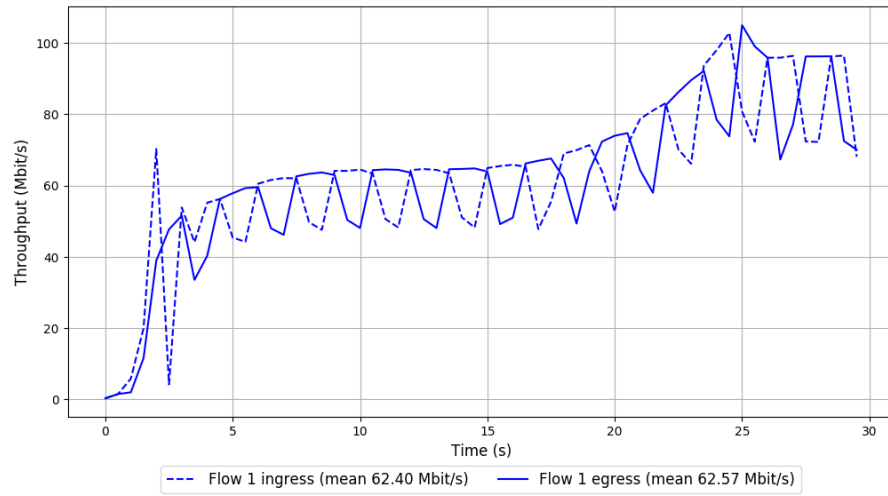
-- Flow 1:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 142.787 ms

Loss rate: 0.59%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 15:45:21

End at: 2018-02-16 15:45:51

Below is generated by plot.py at 2018-02-16 20:12:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 142.688 ms

Loss rate: 0.76%

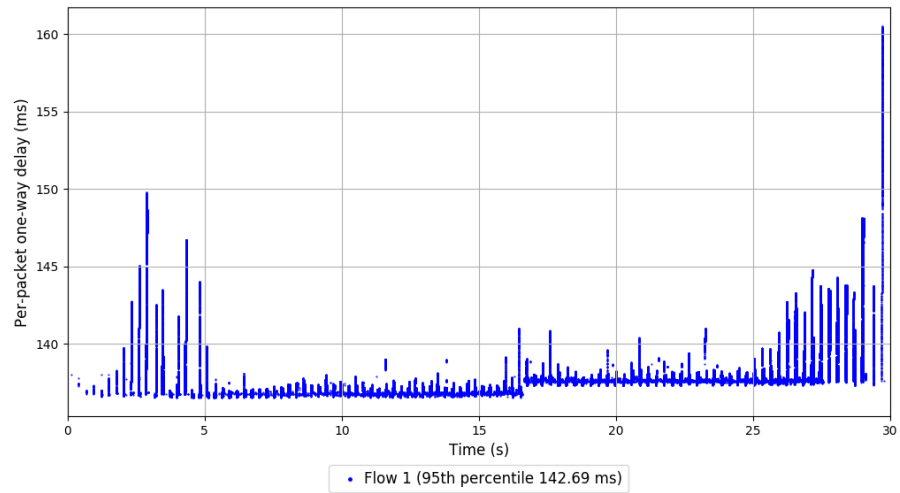
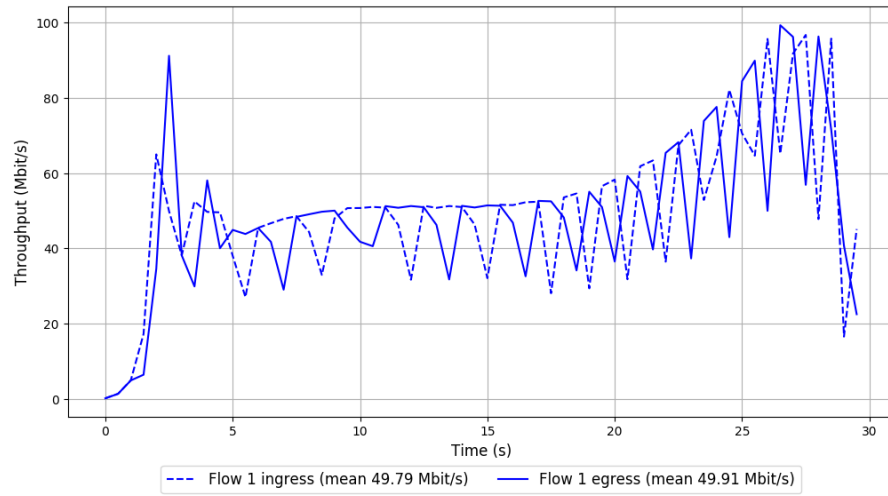
-- Flow 1:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 142.688 ms

Loss rate: 0.76%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-16 16:01:49

End at: 2018-02-16 16:02:19

Below is generated by plot.py at 2018-02-16 20:12:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 143.318 ms

Loss rate: 1.17%

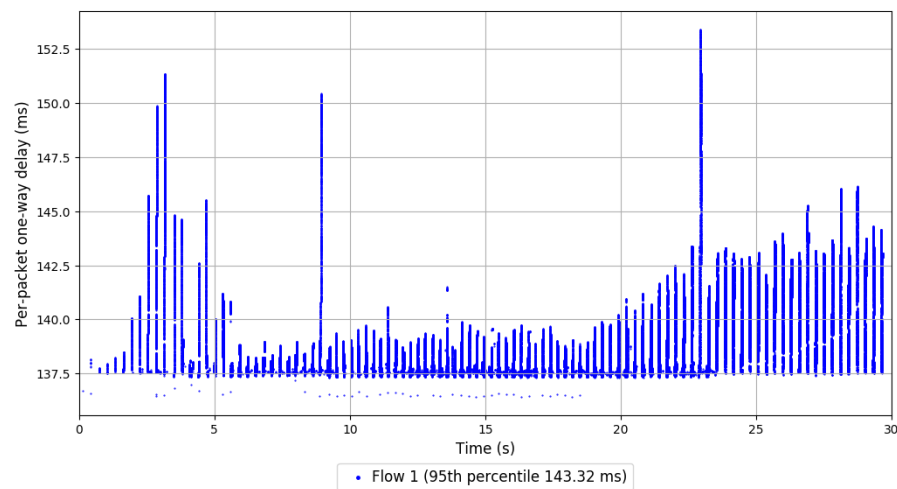
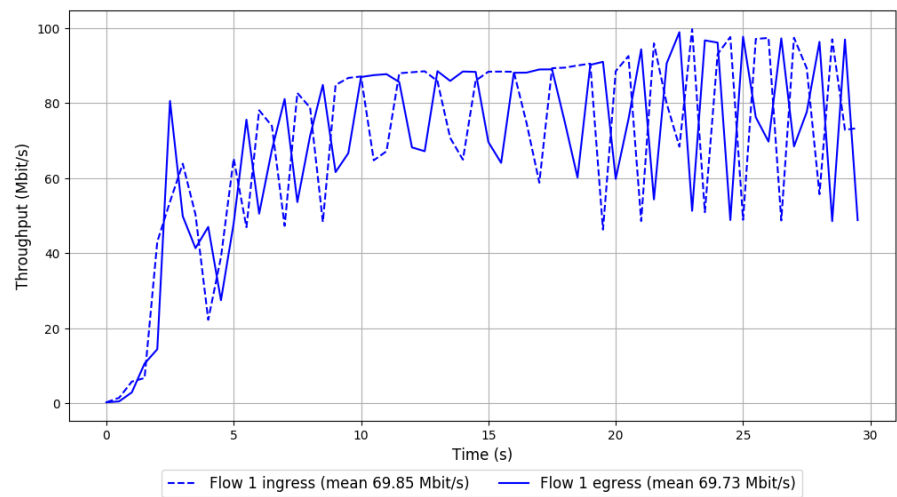
-- Flow 1:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 143.318 ms

Loss rate: 1.17%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-16 16:18:21

End at: 2018-02-16 16:18:51

Below is generated by plot.py at 2018-02-16 20:12:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.05 Mbit/s

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

Loss rate: 1.15%

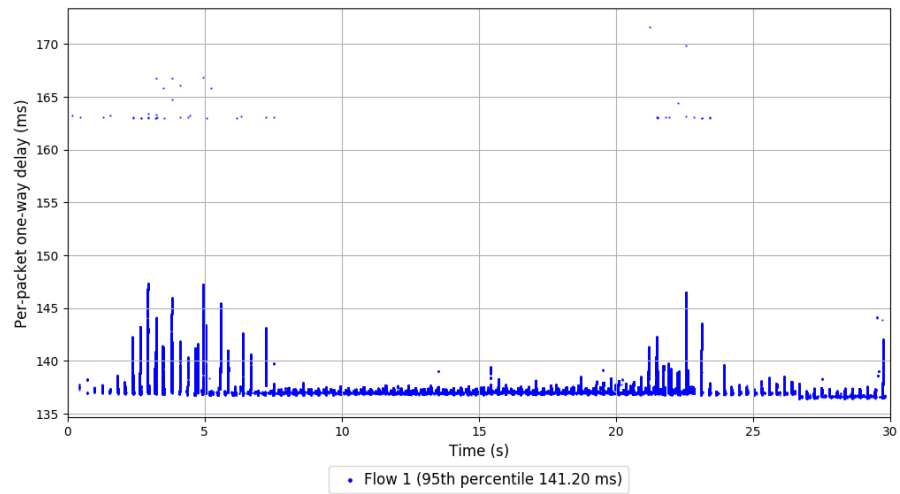
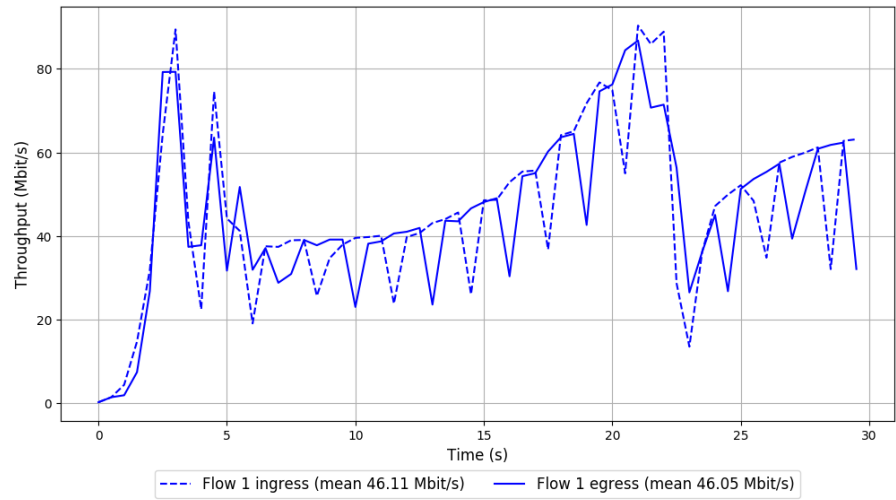
-- Flow 1:

Average throughput: 46.05 Mbit/s

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

Loss rate: 1.15%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 16:34:23

End at: 2018-02-16 16:34:53

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.76 Mbit/s

95th percentile per-packet one-way delay: 142.445 ms

Loss rate: 0.99%

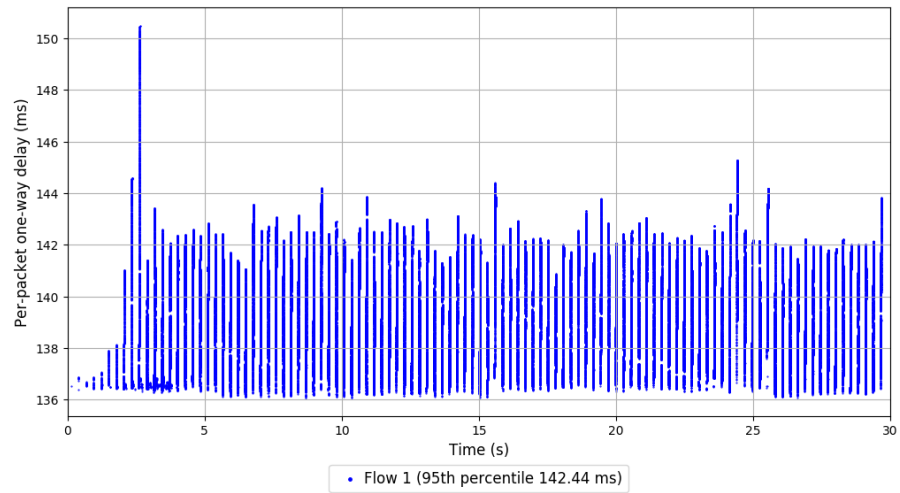
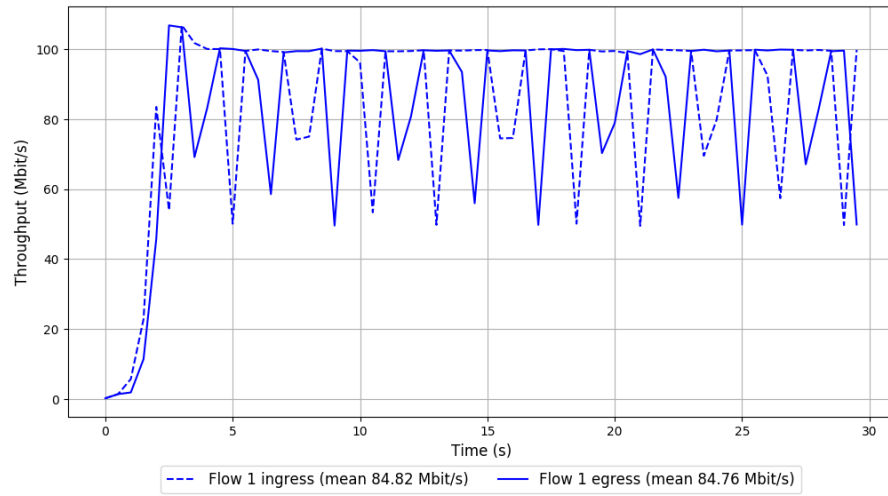
-- Flow 1:

Average throughput: 84.76 Mbit/s

95th percentile per-packet one-way delay: 142.445 ms

Loss rate: 0.99%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 16:50:40

End at: 2018-02-16 16:51:10

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 144.903 ms

Loss rate: 1.38%

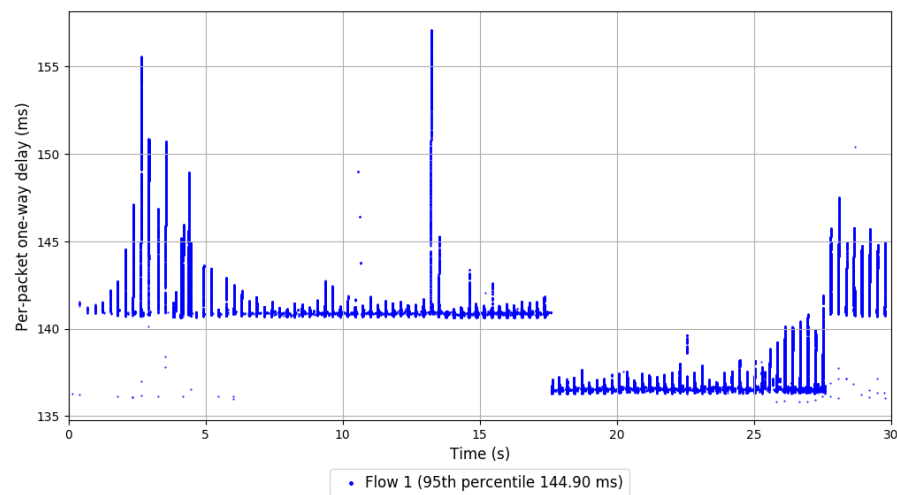
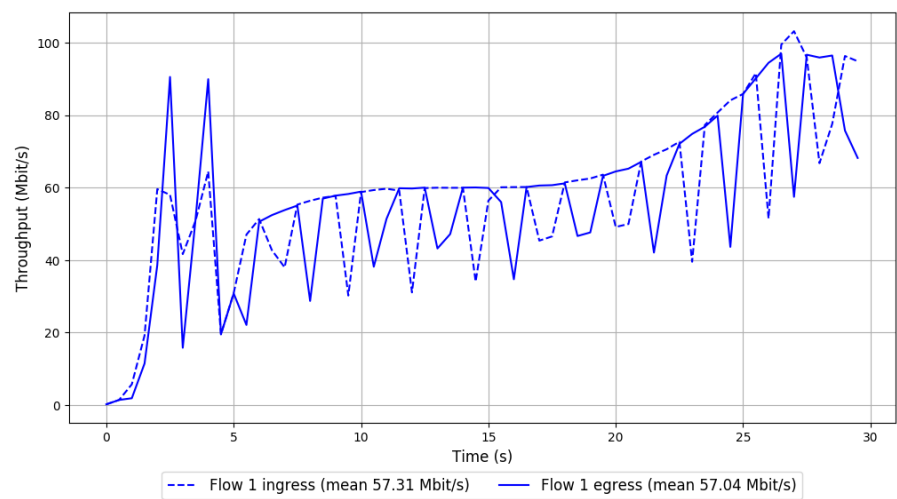
-- Flow 1:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 144.903 ms

Loss rate: 1.38%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 17:06:44

End at: 2018-02-16 17:07:14

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 141.763 ms

Loss rate: 1.29%

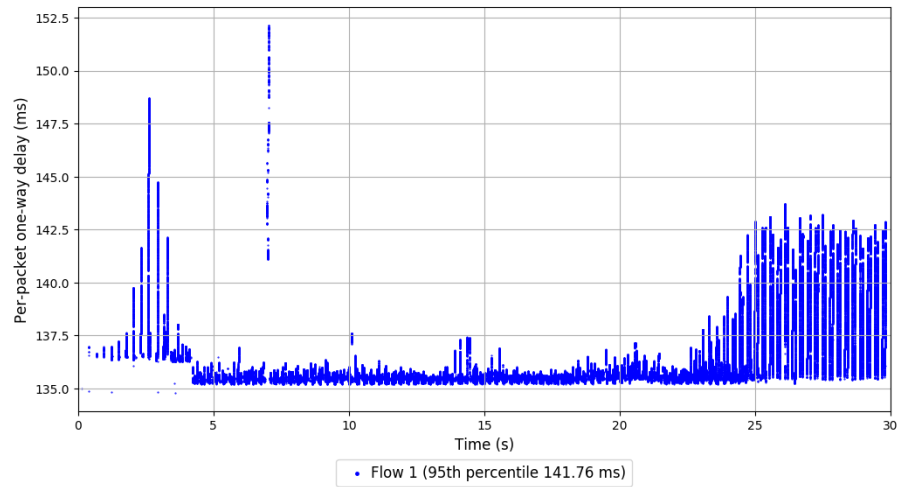
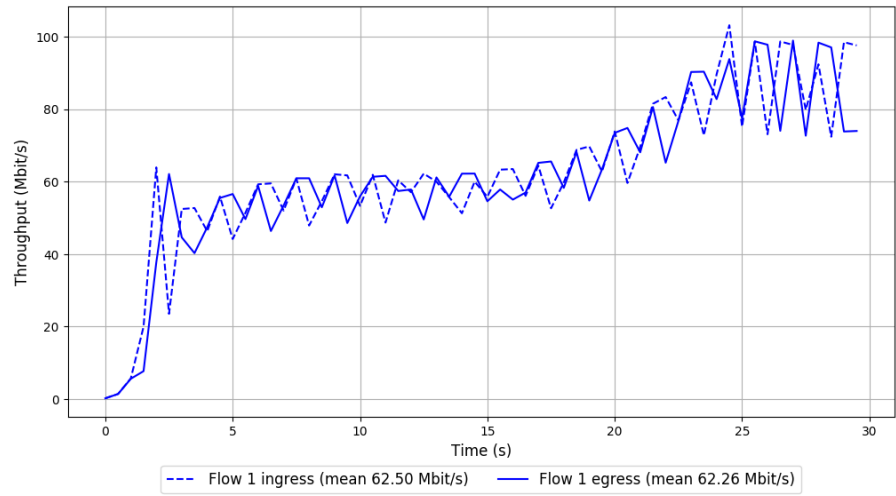
-- Flow 1:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 141.763 ms

Loss rate: 1.29%

Run 10: Report of TCP Cubic — Data Link

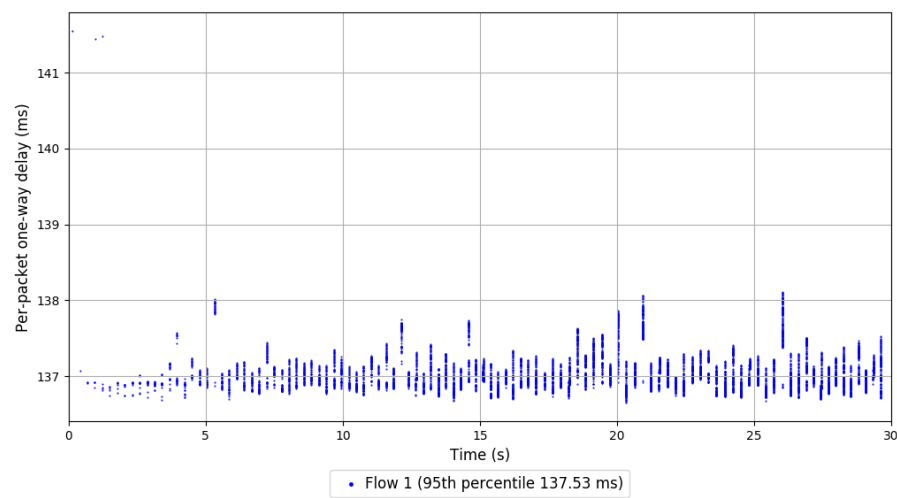
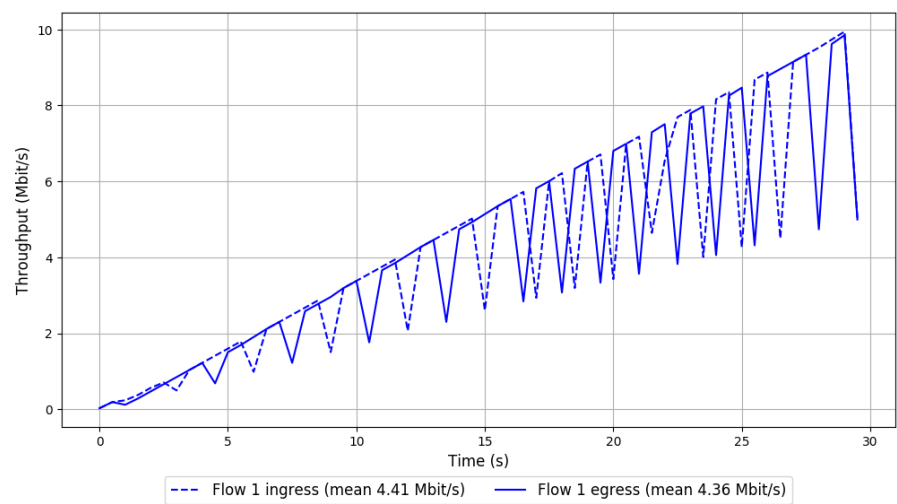


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 14:43:22
End at: 2018-02-16 14:43:52

# Below is generated by plot.py at 2018-02-16 20:13:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 137.535 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 137.535 ms
Loss rate: 1.92%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-16 14:59:38

End at: 2018-02-16 15:00:08

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 142.129 ms

Loss rate: 1.84%

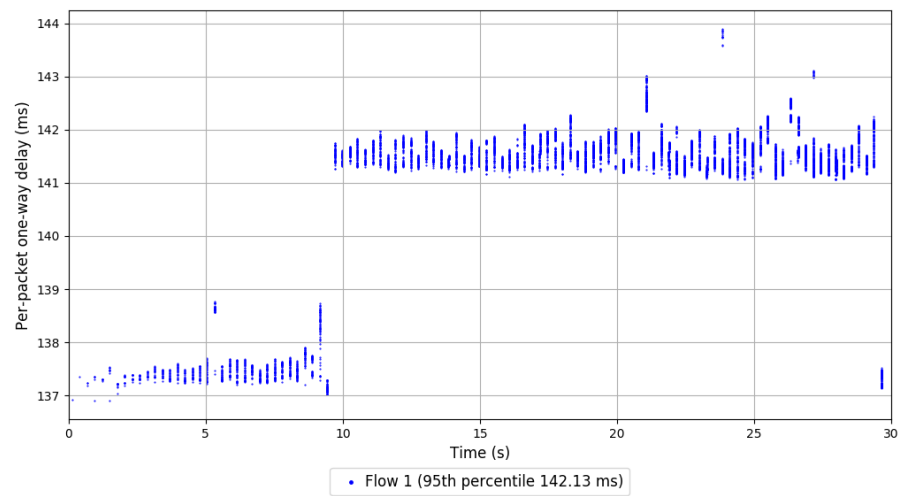
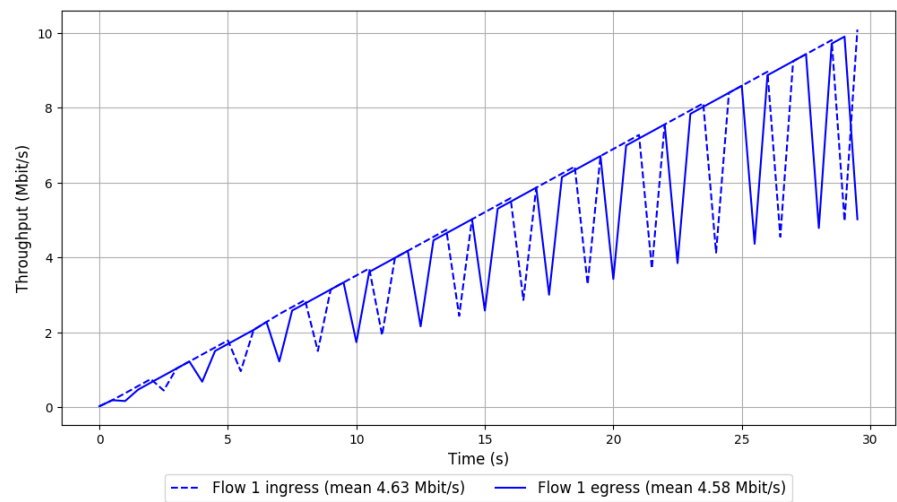
-- Flow 1:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 142.129 ms

Loss rate: 1.84%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-16 15:16:02

End at: 2018-02-16 15:16:32

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 142.061 ms

Loss rate: 1.91%

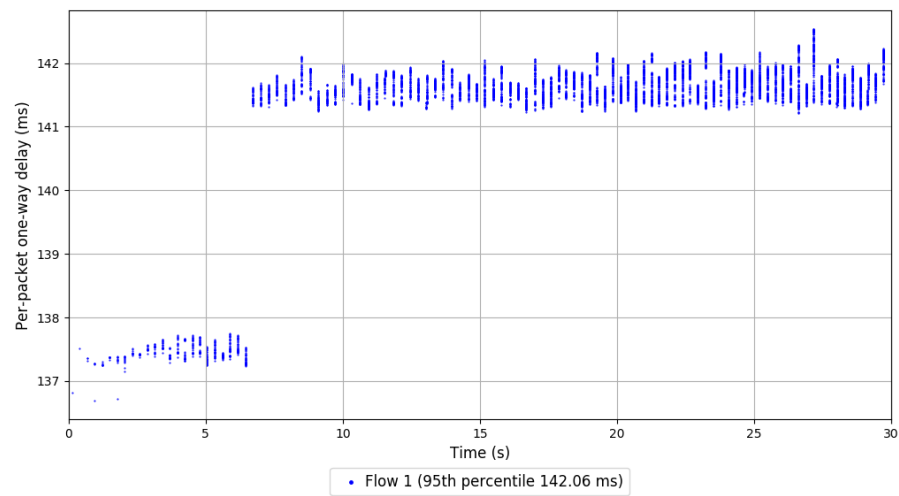
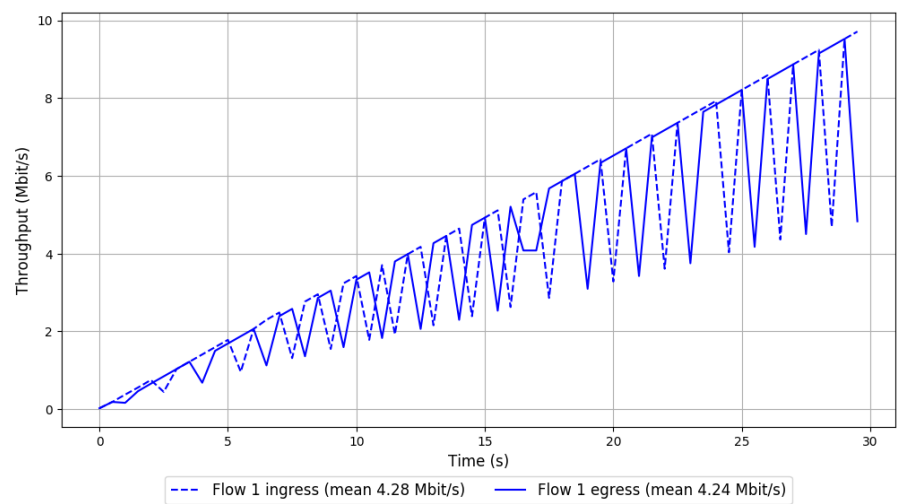
-- Flow 1:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 142.061 ms

Loss rate: 1.91%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-16 15:32:01

End at: 2018-02-16 15:32:31

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 137.884 ms

Loss rate: 1.97%

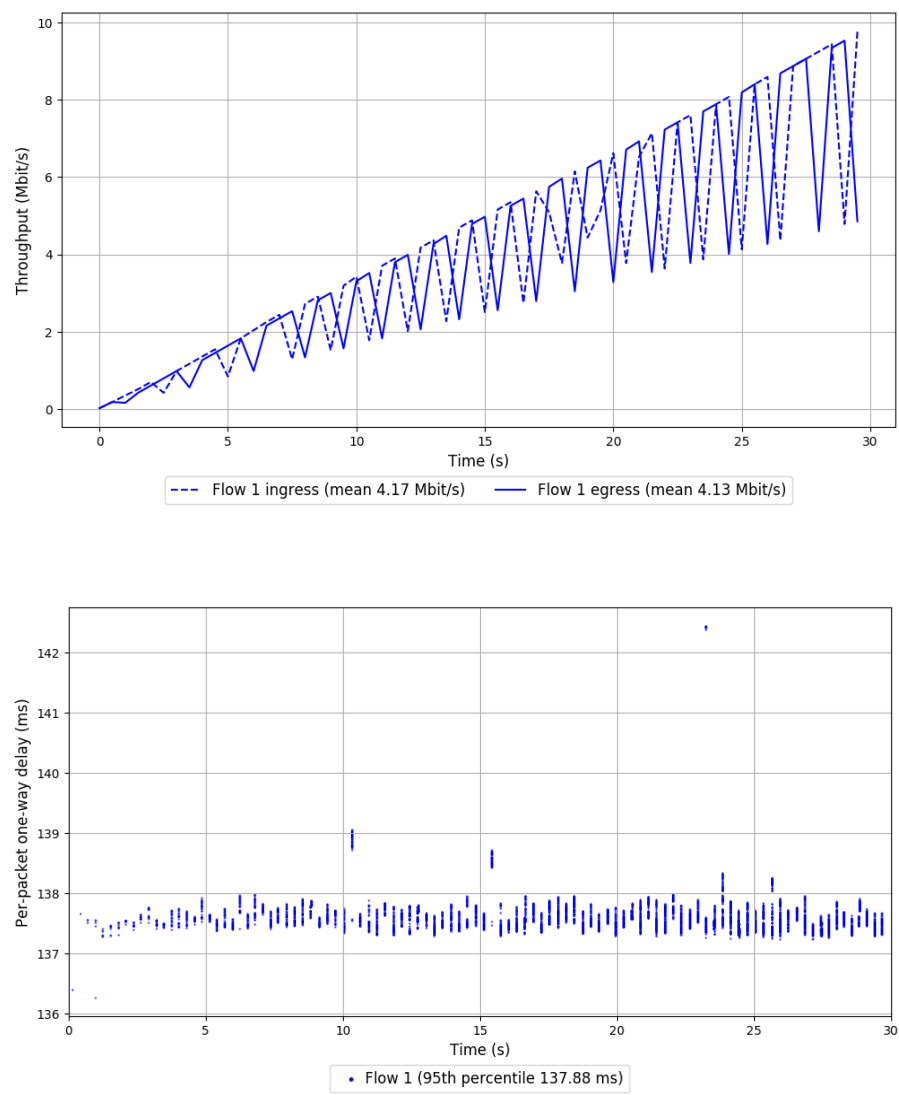
-- Flow 1:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 137.884 ms

Loss rate: 1.97%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-16 15:48:19

End at: 2018-02-16 15:48:49

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 138.706 ms

Loss rate: 1.71%

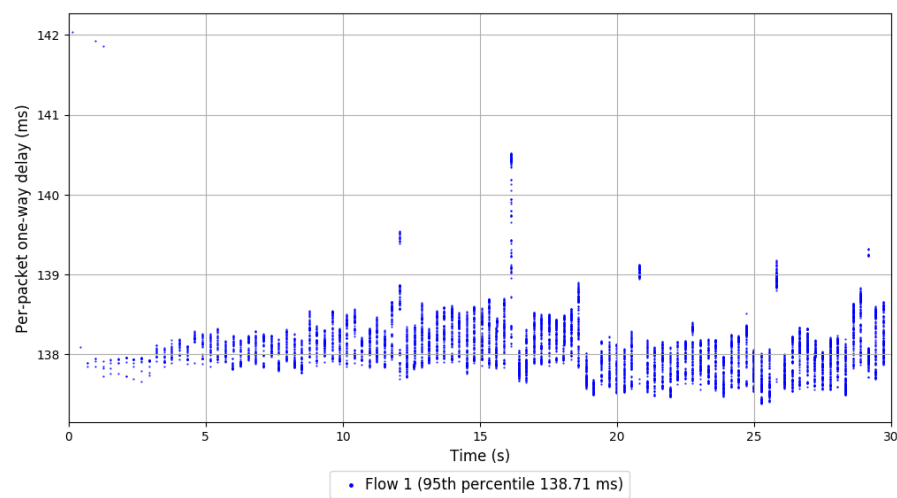
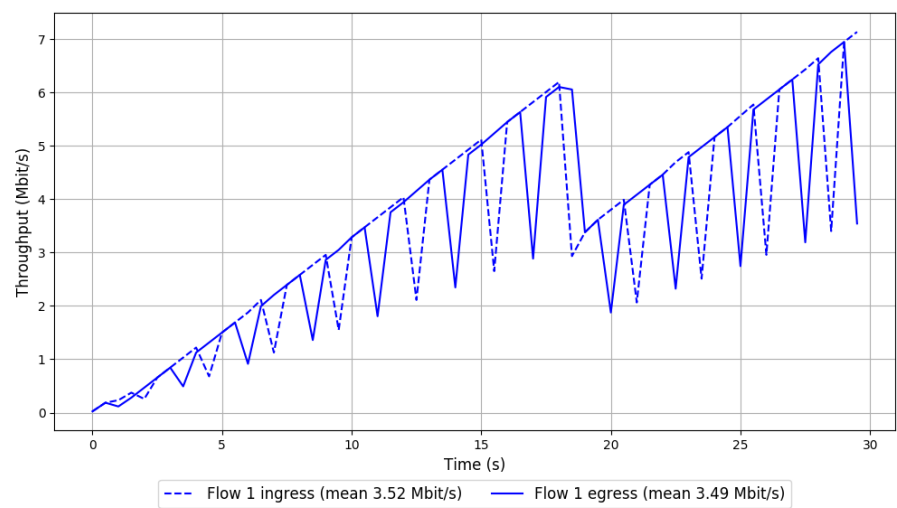
-- Flow 1:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 138.706 ms

Loss rate: 1.71%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-16 16:04:45

End at: 2018-02-16 16:05:15

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 164.568 ms

Loss rate: 1.84%

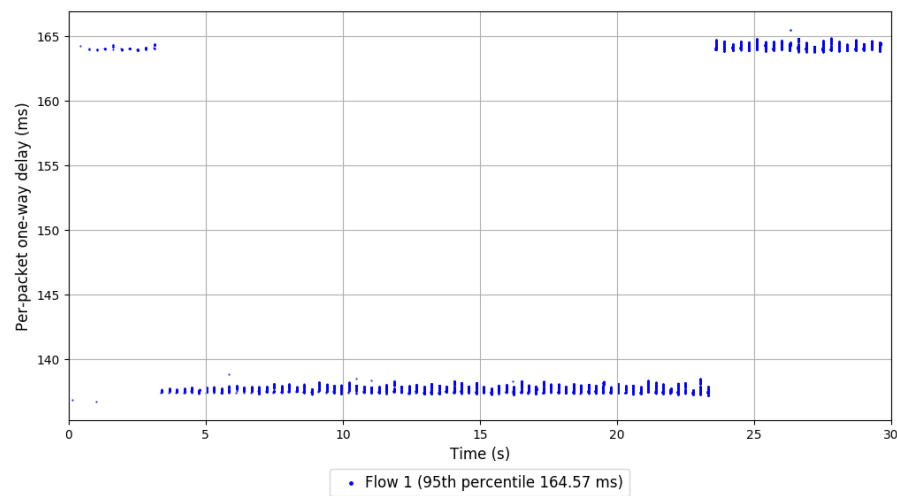
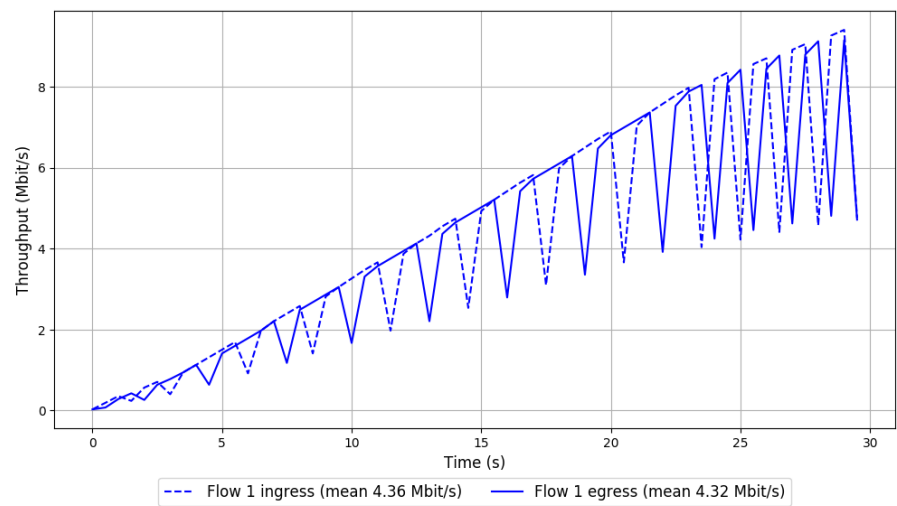
-- Flow 1:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 164.568 ms

Loss rate: 1.84%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-16 16:21:17

End at: 2018-02-16 16:21:47

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 137.817 ms

Loss rate: 1.84%

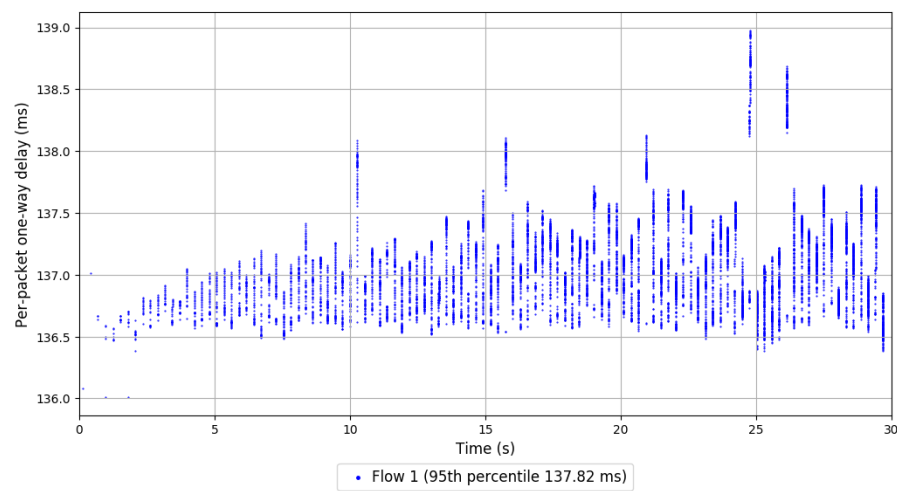
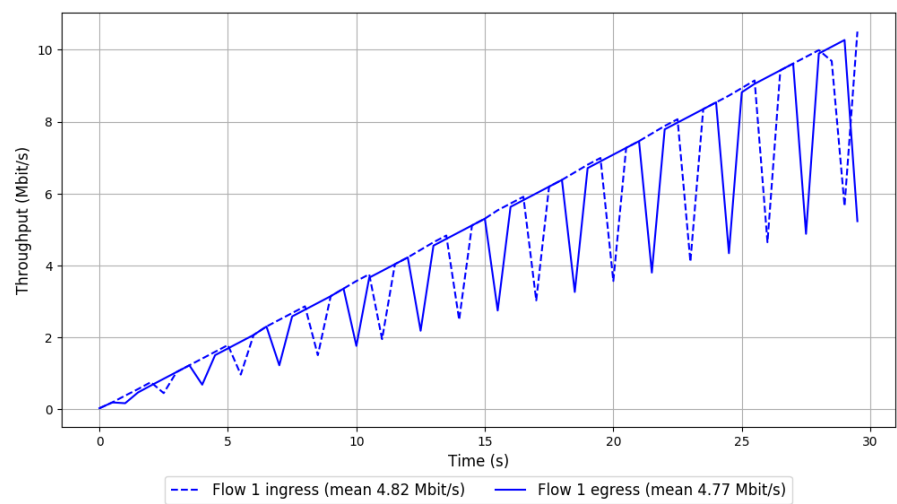
-- Flow 1:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 137.817 ms

Loss rate: 1.84%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-16 16:37:20

End at: 2018-02-16 16:37:51

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.079 ms

Loss rate: 1.83%

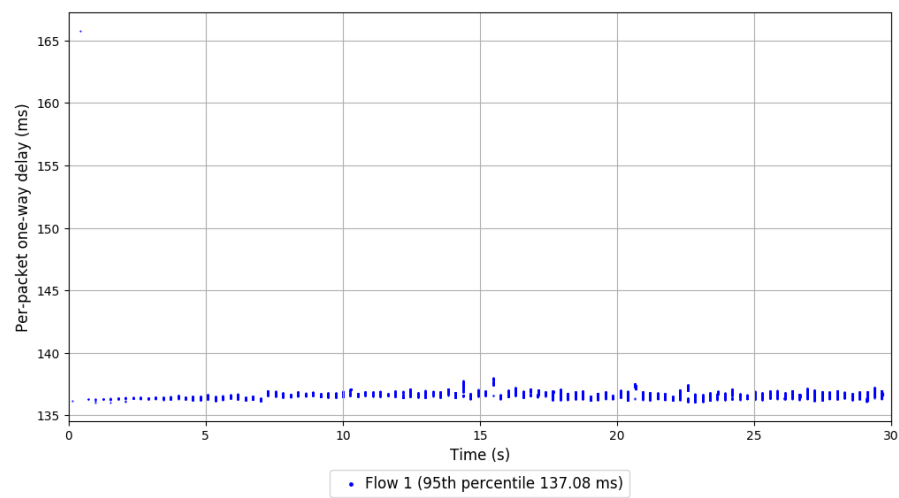
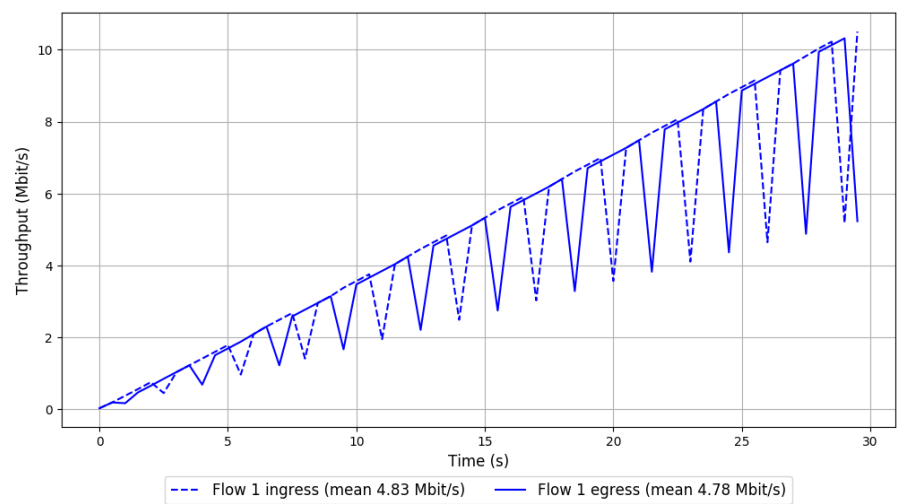
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.079 ms

Loss rate: 1.83%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 16:53:36

End at: 2018-02-16 16:54:06

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 141.455 ms

Loss rate: 1.84%

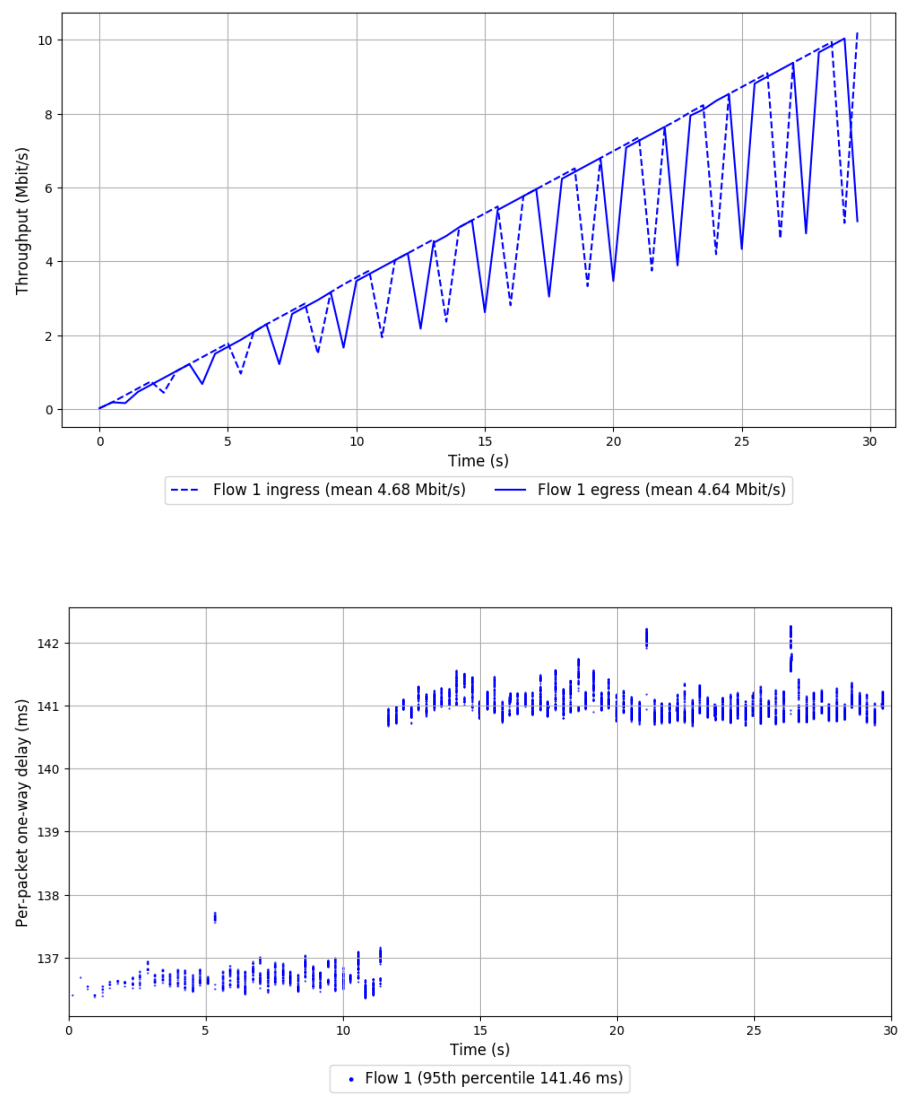
-- Flow 1:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 141.455 ms

Loss rate: 1.84%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 17:09:40

End at: 2018-02-16 17:10:10

Below is generated by plot.py at 2018-02-16 20:13:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 137.274 ms

Loss rate: 1.94%

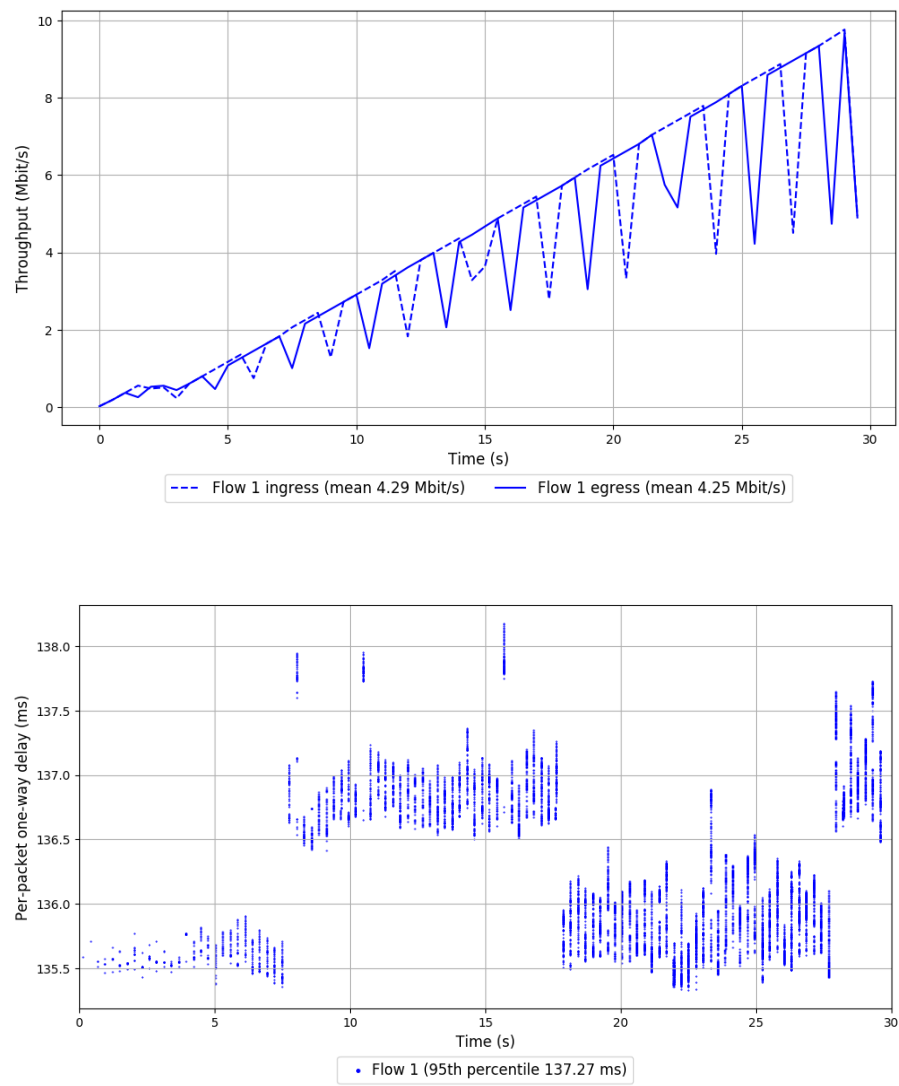
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 137.274 ms

Loss rate: 1.94%

Run 10: Report of LEDBAT — Data Link

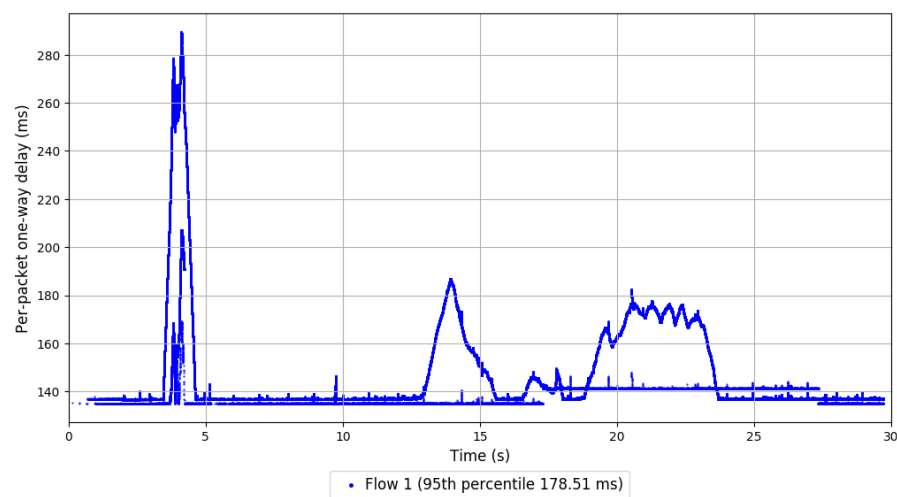
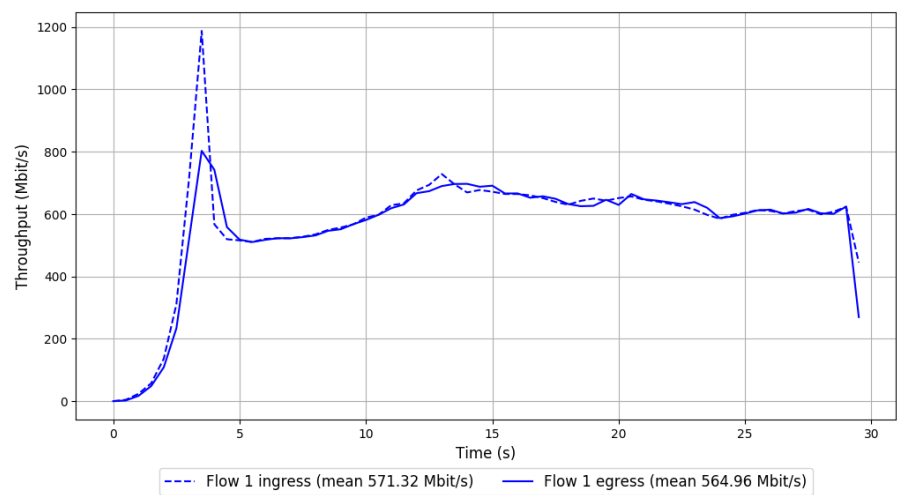


```
Run 1: Statistics of PCC

Start at: 2018-02-16 14:39:16
End at: 2018-02-16 14:39:46

# Below is generated by plot.py at 2018-02-16 20:22:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.96 Mbit/s
95th percentile per-packet one-way delay: 178.514 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 564.96 Mbit/s
95th percentile per-packet one-way delay: 178.514 ms
Loss rate: 2.03%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-16 14:55:36

End at: 2018-02-16 14:56:06

Below is generated by plot.py at 2018-02-16 20:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.12 Mbit/s

95th percentile per-packet one-way delay: 187.461 ms

Loss rate: 1.98%

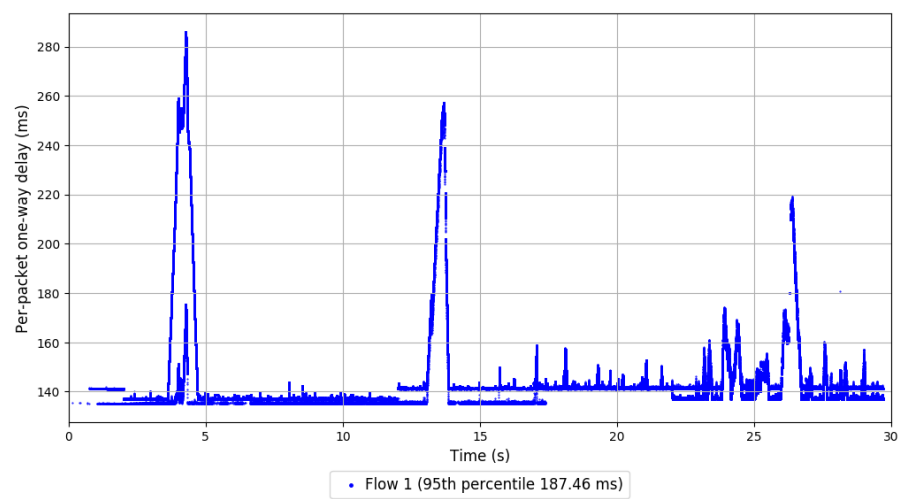
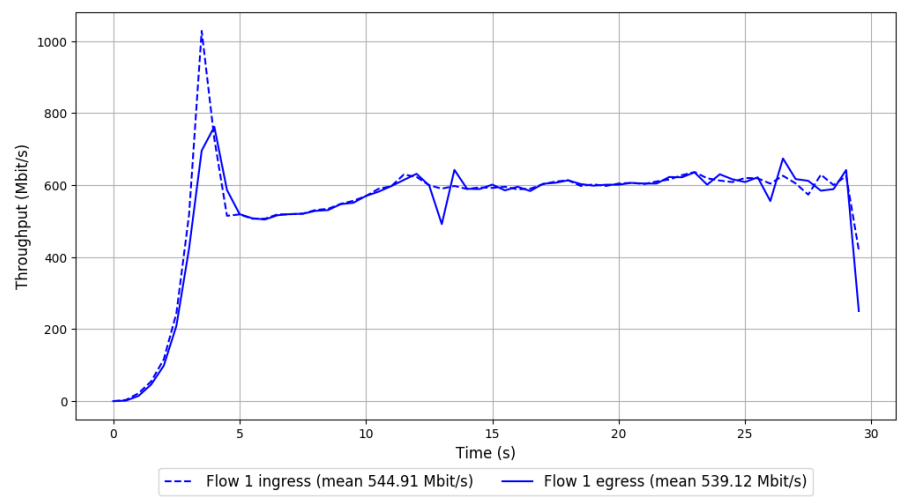
-- Flow 1:

Average throughput: 539.12 Mbit/s

95th percentile per-packet one-way delay: 187.461 ms

Loss rate: 1.98%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-16 15:11:59

End at: 2018-02-16 15:12:29

Below is generated by plot.py at 2018-02-16 20:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.30 Mbit/s

95th percentile per-packet one-way delay: 207.064 ms

Loss rate: 2.02%

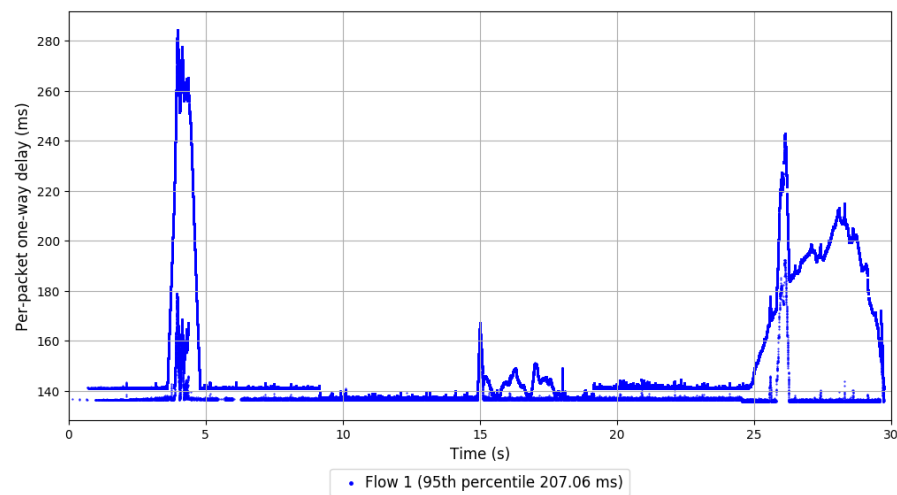
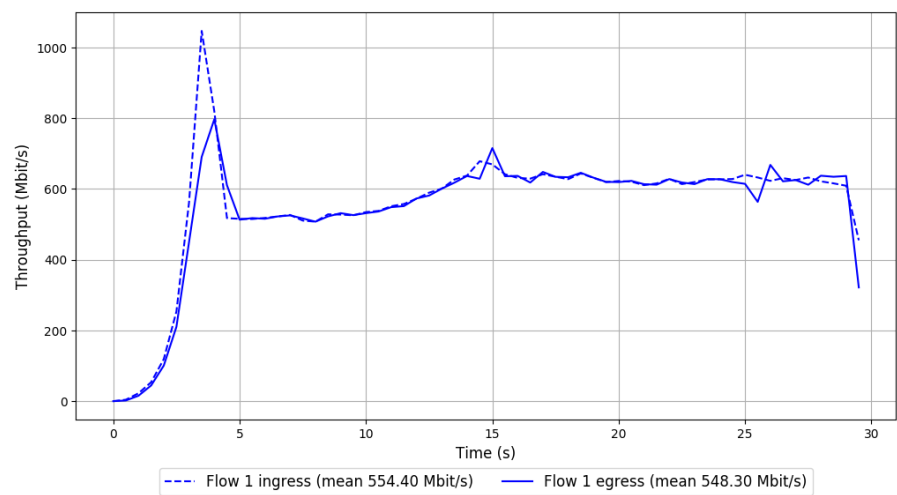
-- Flow 1:

Average throughput: 548.30 Mbit/s

95th percentile per-packet one-way delay: 207.064 ms

Loss rate: 2.02%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-16 15:27:58

End at: 2018-02-16 15:28:28

Below is generated by plot.py at 2018-02-16 20:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.70 Mbit/s

95th percentile per-packet one-way delay: 247.691 ms

Loss rate: 2.87%

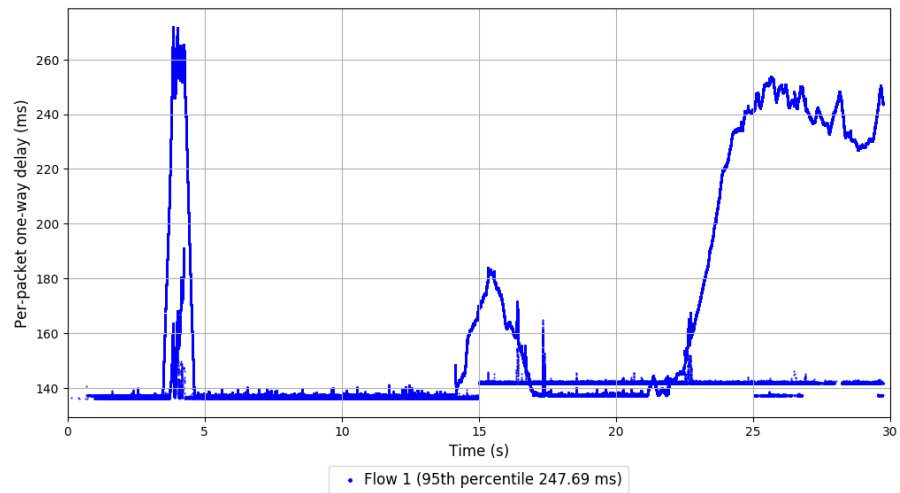
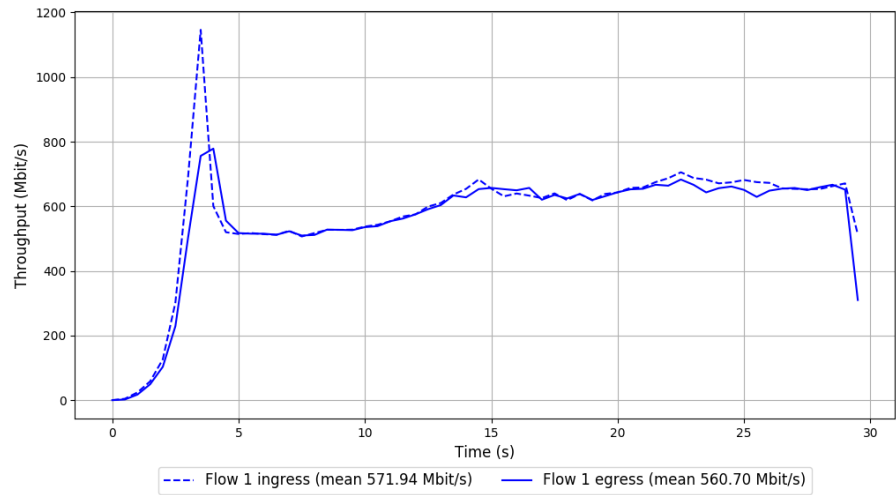
-- Flow 1:

Average throughput: 560.70 Mbit/s

95th percentile per-packet one-way delay: 247.691 ms

Loss rate: 2.87%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-16 15:44:16

End at: 2018-02-16 15:44:46

Below is generated by plot.py at 2018-02-16 20:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.86 Mbit/s

95th percentile per-packet one-way delay: 168.241 ms

Loss rate: 2.24%

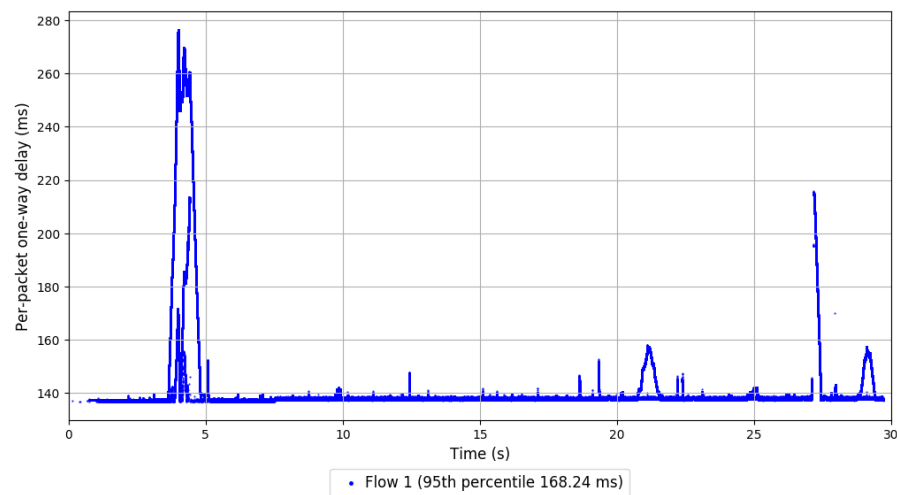
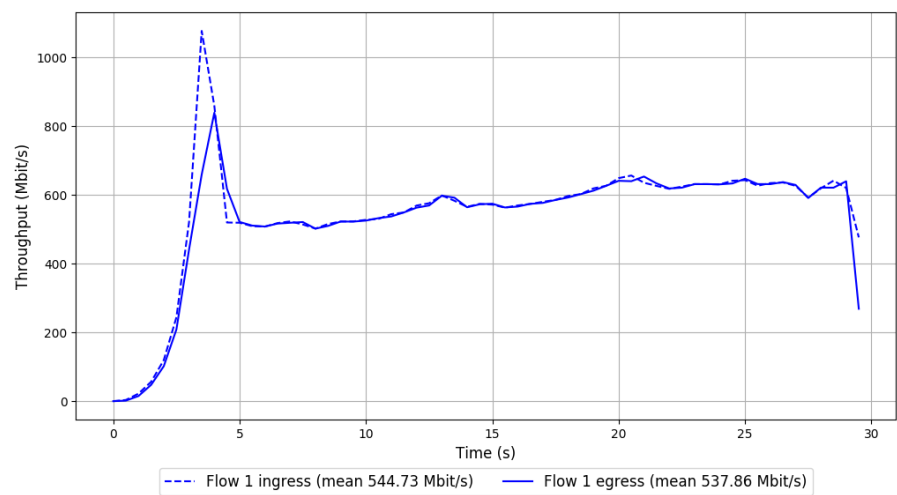
-- Flow 1:

Average throughput: 537.86 Mbit/s

95th percentile per-packet one-way delay: 168.241 ms

Loss rate: 2.24%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-16 16:00:44

End at: 2018-02-16 16:01:14

Below is generated by plot.py at 2018-02-16 20:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.00 Mbit/s

95th percentile per-packet one-way delay: 249.256 ms

Loss rate: 3.52%

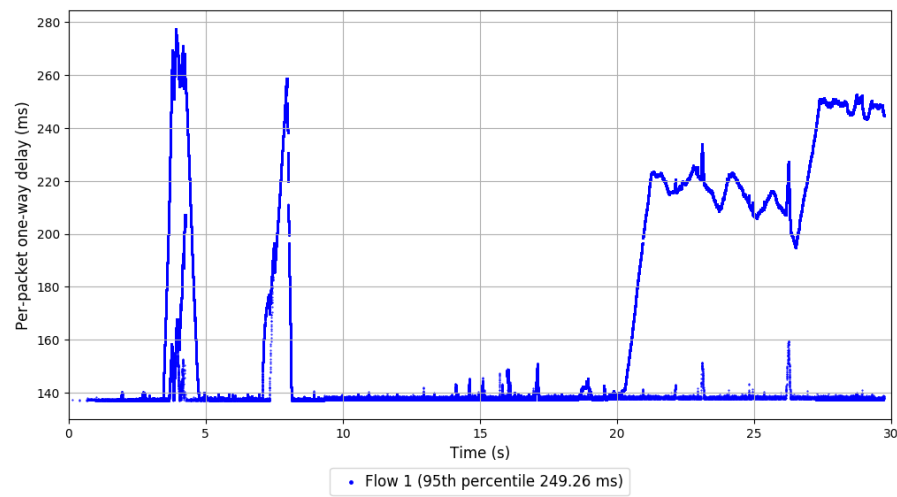
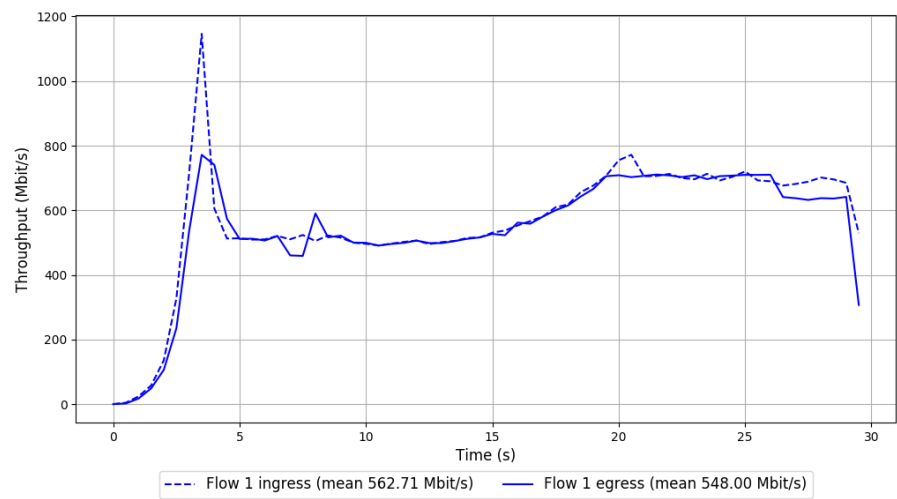
-- Flow 1:

Average throughput: 548.00 Mbit/s

95th percentile per-packet one-way delay: 249.256 ms

Loss rate: 3.52%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-16 16:17:17

End at: 2018-02-16 16:17:47

Below is generated by plot.py at 2018-02-16 20:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.68 Mbit/s

95th percentile per-packet one-way delay: 163.421 ms

Loss rate: 2.47%

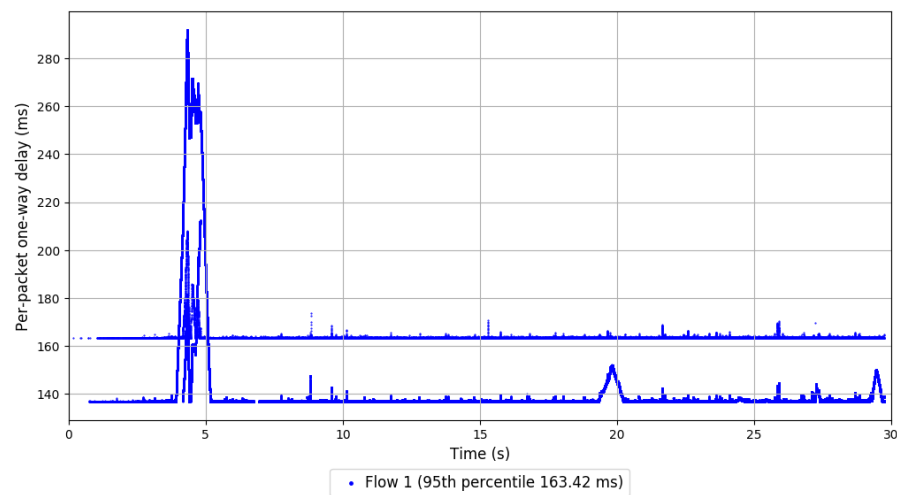
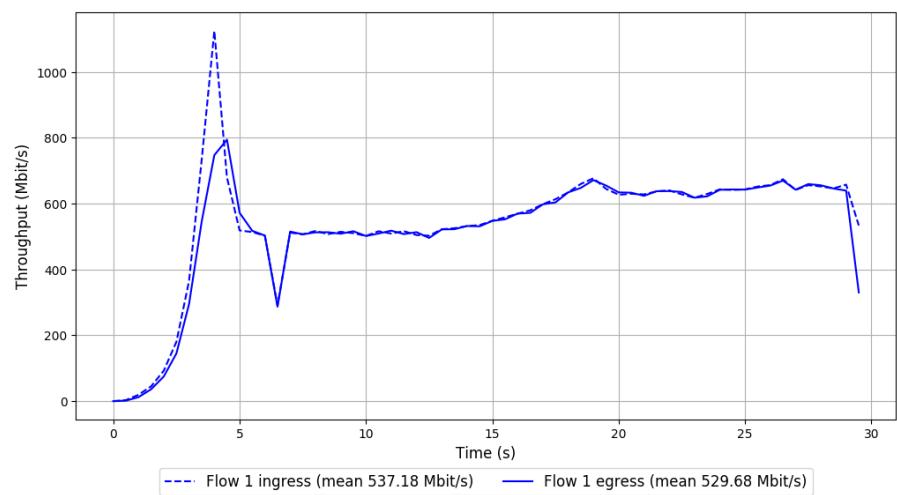
-- Flow 1:

Average throughput: 529.68 Mbit/s

95th percentile per-packet one-way delay: 163.421 ms

Loss rate: 2.47%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-16 16:33:17

End at: 2018-02-16 16:33:47

Below is generated by plot.py at 2018-02-16 20:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.14 Mbit/s

95th percentile per-packet one-way delay: 247.605 ms

Loss rate: 3.10%

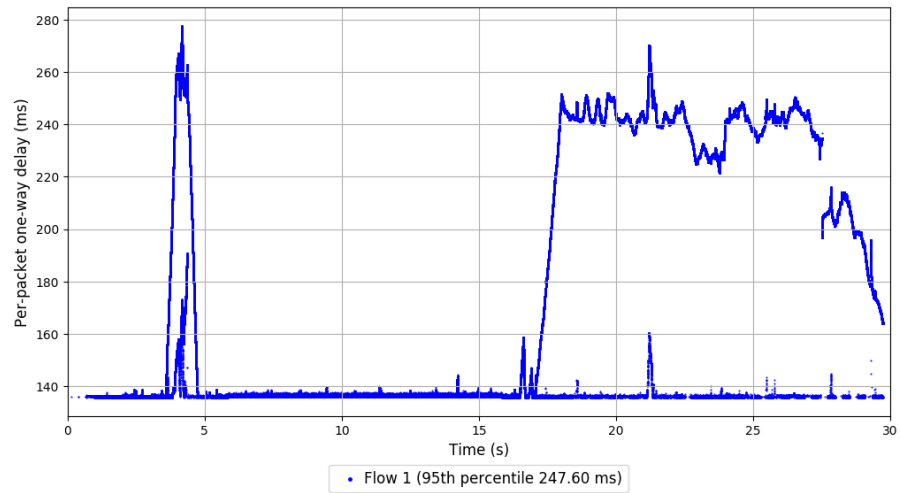
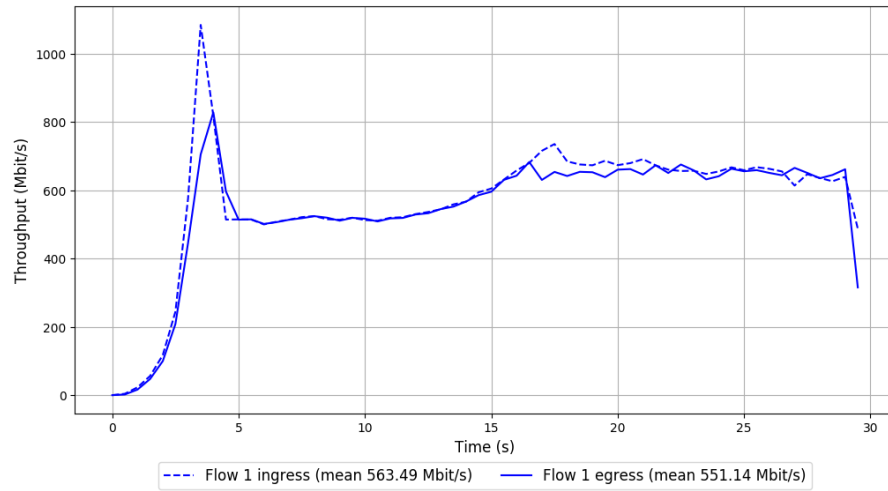
-- Flow 1:

Average throughput: 551.14 Mbit/s

95th percentile per-packet one-way delay: 247.605 ms

Loss rate: 3.10%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 16:49:37

End at: 2018-02-16 16:50:07

Below is generated by plot.py at 2018-02-16 20:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.76 Mbit/s

95th percentile per-packet one-way delay: 169.302 ms

Loss rate: 2.14%

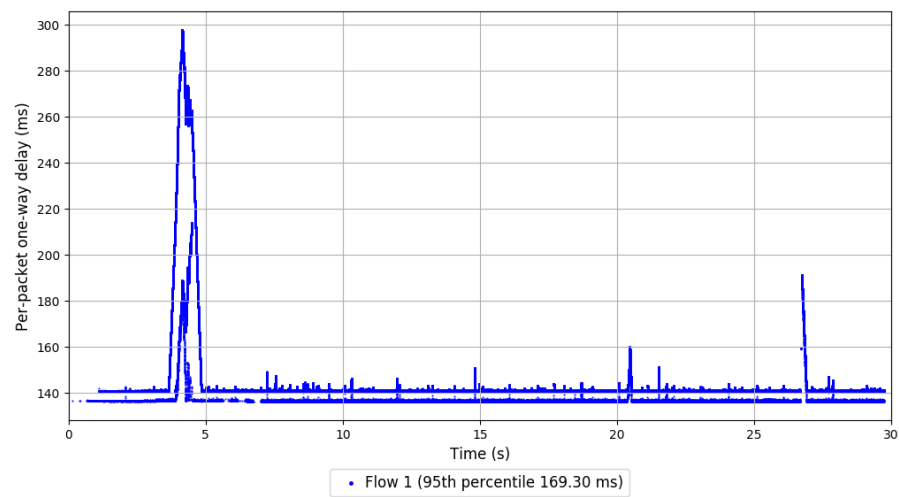
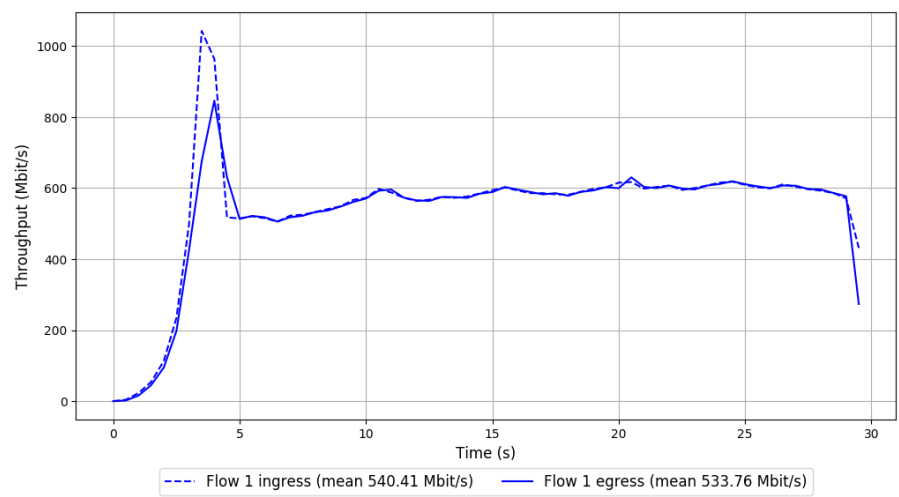
-- Flow 1:

Average throughput: 533.76 Mbit/s

95th percentile per-packet one-way delay: 169.302 ms

Loss rate: 2.14%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 17:05:39

End at: 2018-02-16 17:06:09

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.02 Mbit/s

95th percentile per-packet one-way delay: 198.382 ms

Loss rate: 2.55%

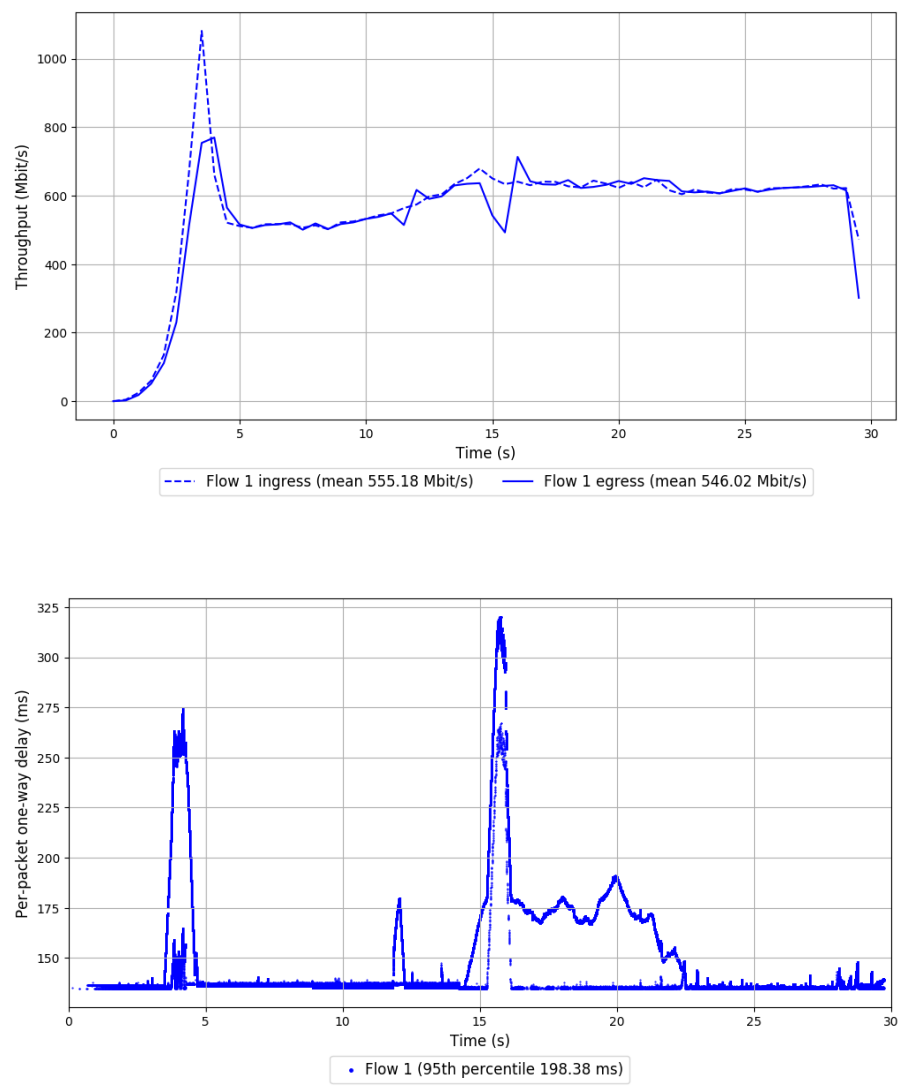
-- Flow 1:

Average throughput: 546.02 Mbit/s

95th percentile per-packet one-way delay: 198.382 ms

Loss rate: 2.55%

Run 10: Report of PCC — Data Link

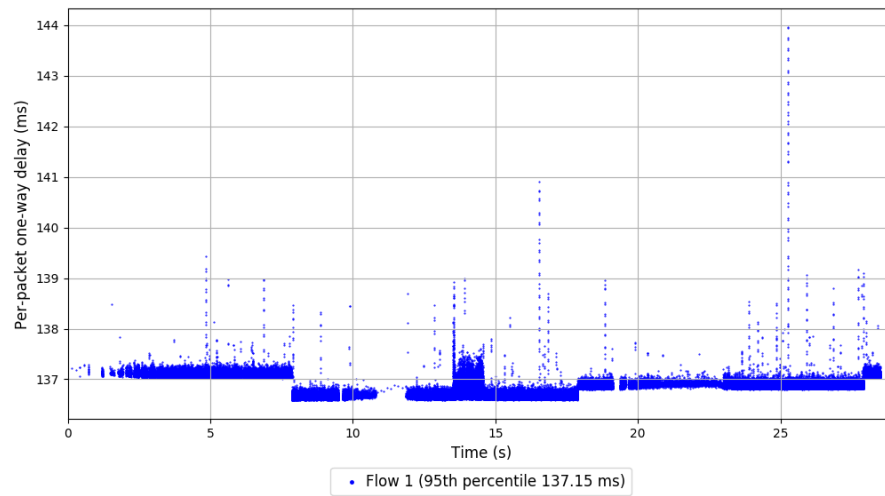
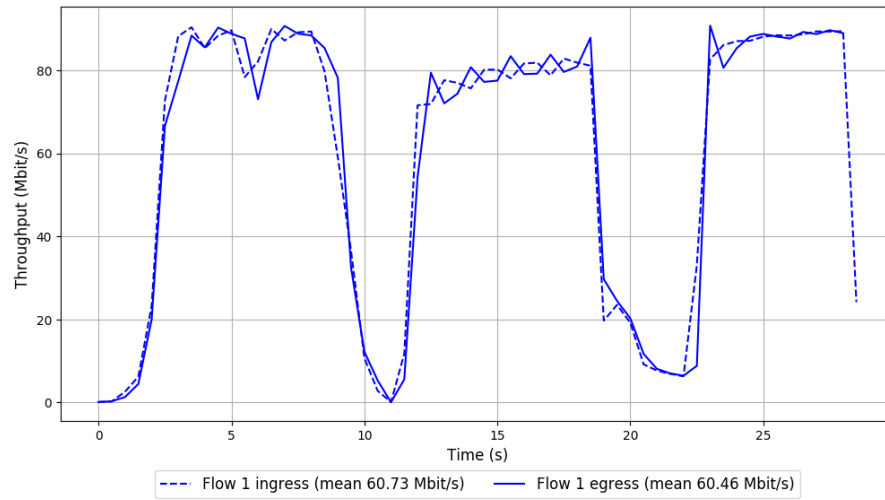


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 14:41:09
End at: 2018-02-16 14:41:39

# Below is generated by plot.py at 2018-02-16 20:31:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 137.149 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 137.149 ms
Loss rate: 1.40%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 14:57:27

End at: 2018-02-16 14:57:57

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.83 Mbit/s

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

Loss rate: 1.14%

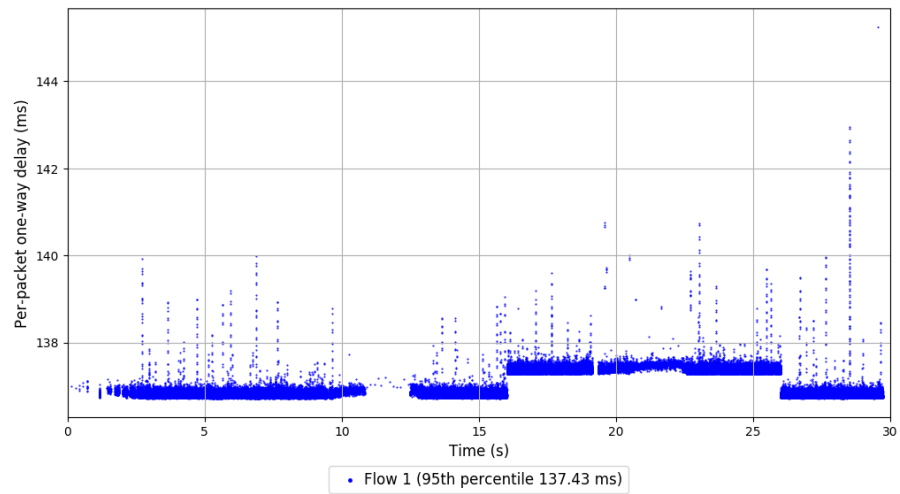
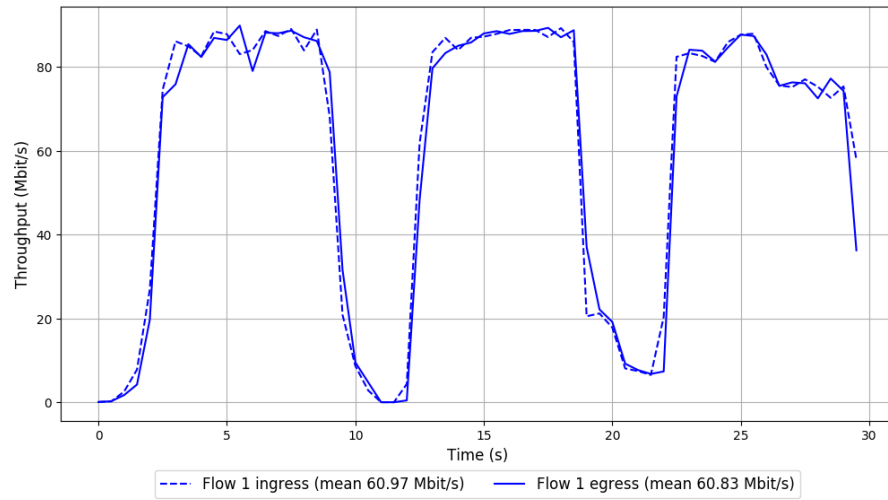
-- Flow 1:

Average throughput: 60.83 Mbit/s

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

Loss rate: 1.14%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 15:13:51

End at: 2018-02-16 15:14:21

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 141.278 ms

Loss rate: 1.17%

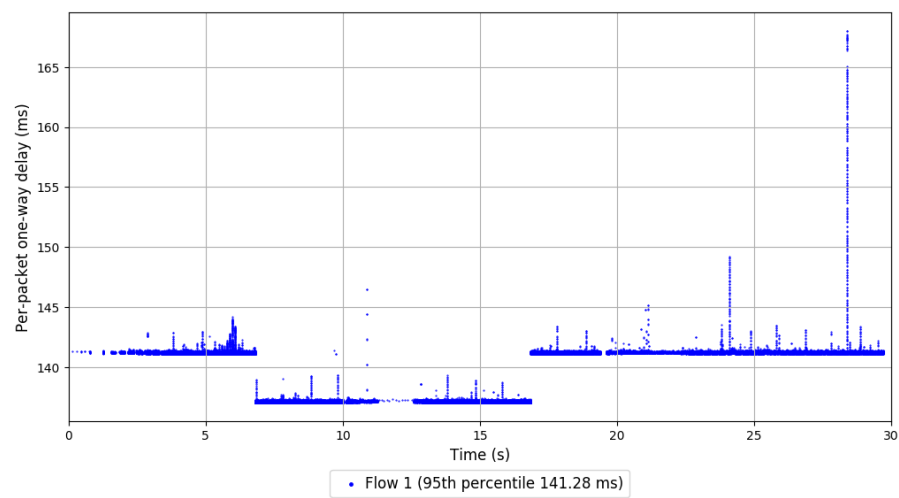
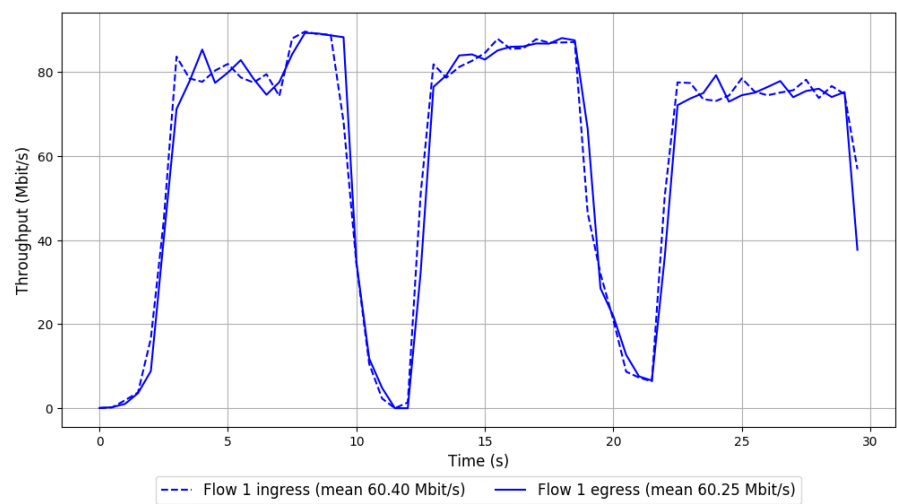
-- Flow 1:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 141.278 ms

Loss rate: 1.17%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 15:29:50

End at: 2018-02-16 15:30:20

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.41 Mbit/s

95th percentile per-packet one-way delay: 141.791 ms

Loss rate: 1.06%

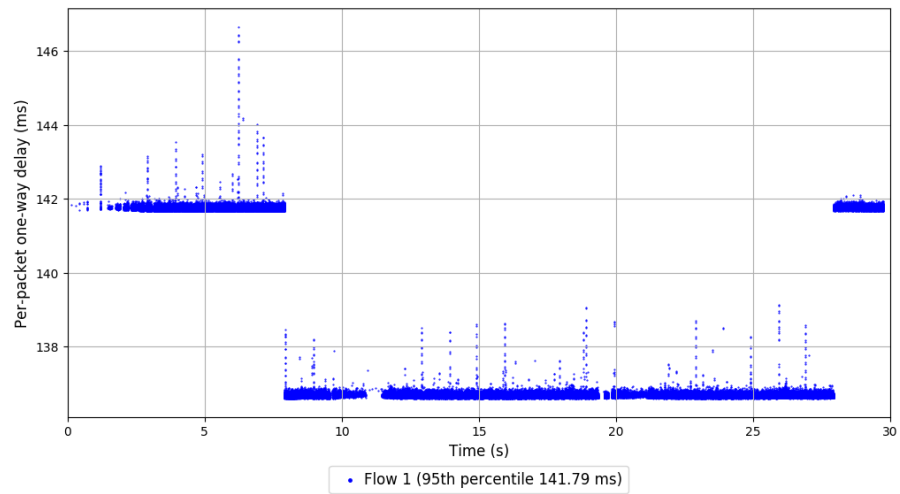
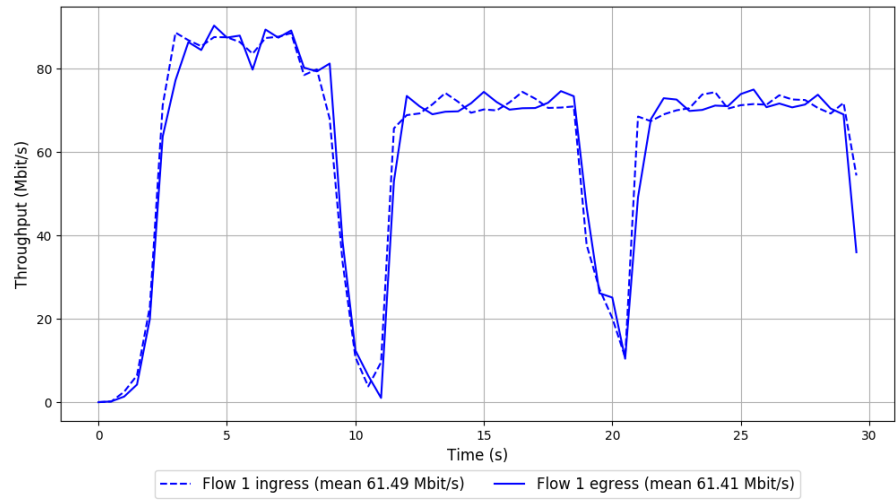
-- Flow 1:

Average throughput: 61.41 Mbit/s

95th percentile per-packet one-way delay: 141.791 ms

Loss rate: 1.06%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 15:46:08

End at: 2018-02-16 15:46:38

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.92 Mbit/s

95th percentile per-packet one-way delay: 137.463 ms

Loss rate: 1.37%

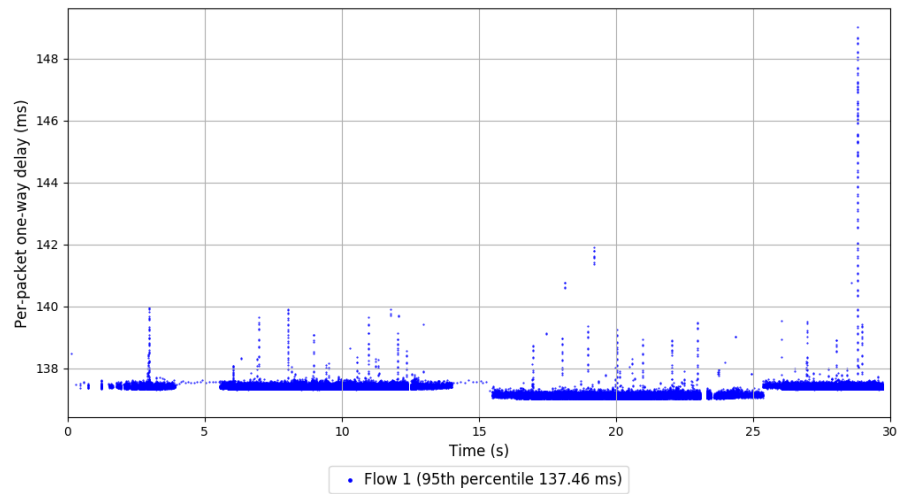
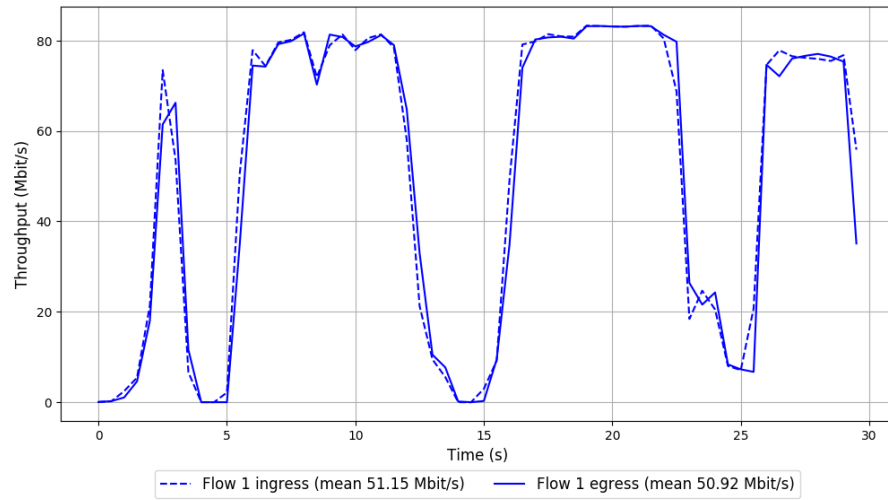
-- Flow 1:

Average throughput: 50.92 Mbit/s

95th percentile per-packet one-way delay: 137.463 ms

Loss rate: 1.37%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-16 16:02:36

End at: 2018-02-16 16:03:06

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 165.927 ms

Loss rate: 1.48%

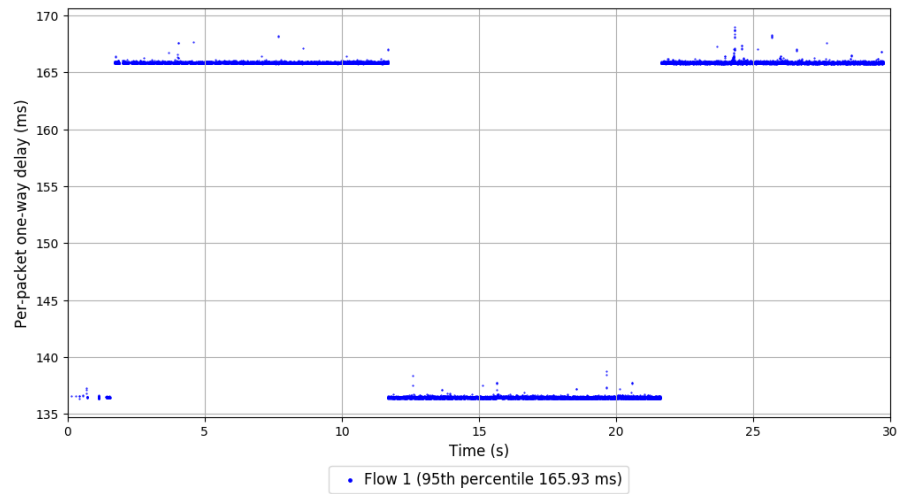
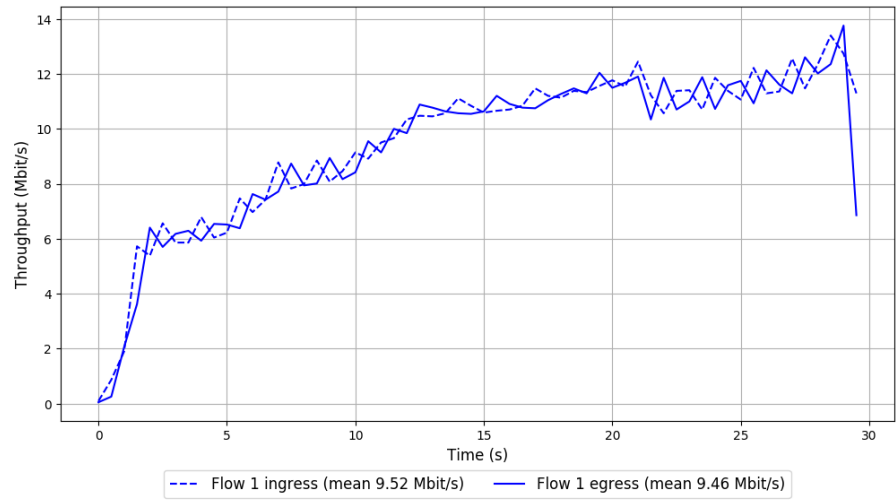
-- Flow 1:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 165.927 ms

Loss rate: 1.48%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 16:19:07

End at: 2018-02-16 16:19:37

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 163.479 ms

Loss rate: 1.34%

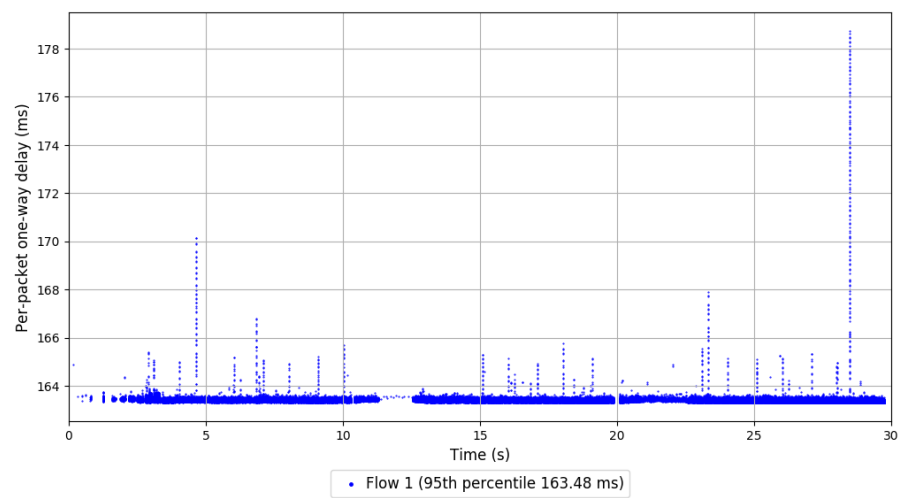
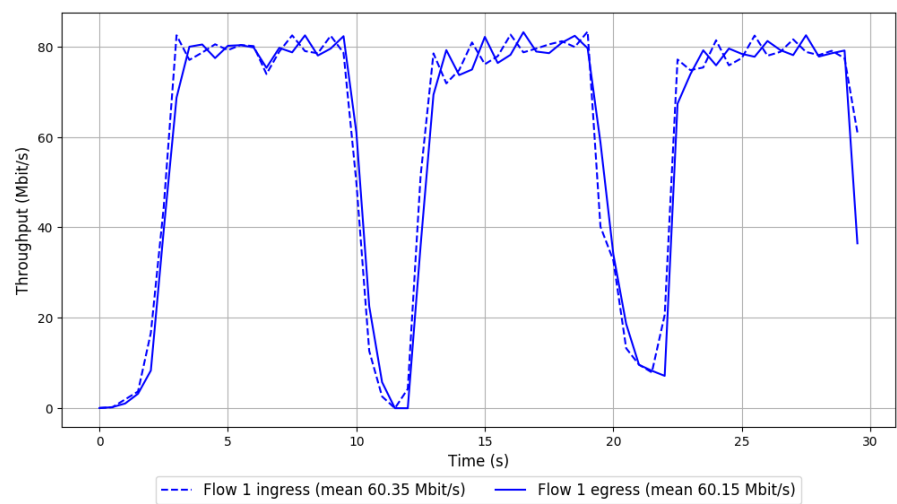
-- Flow 1:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 163.479 ms

Loss rate: 1.34%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 16:35:10

End at: 2018-02-16 16:35:40

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.35 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 1.15%

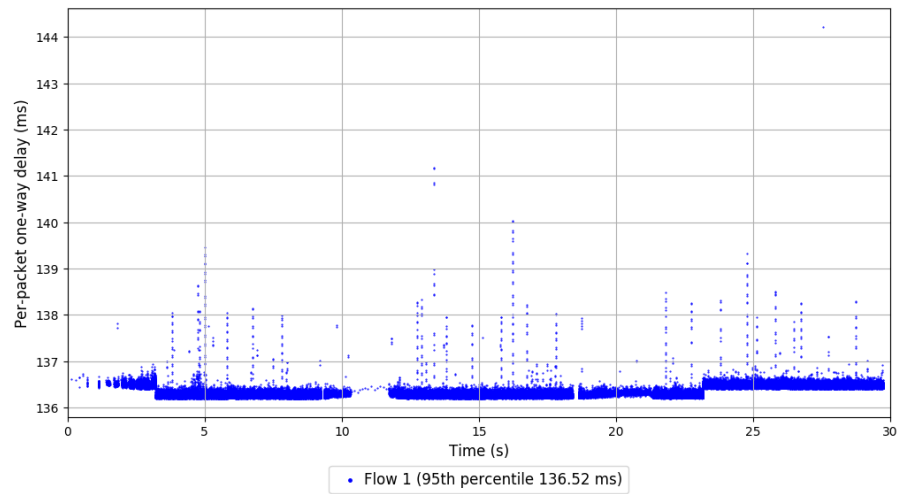
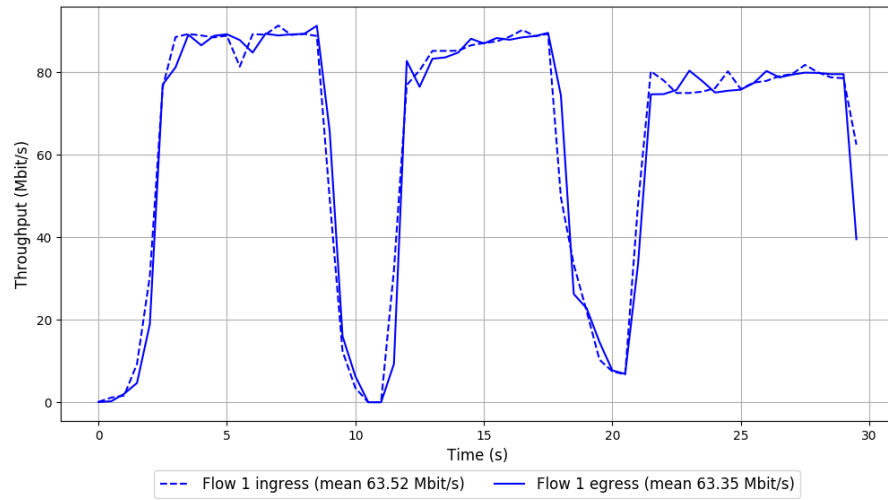
-- Flow 1:

Average throughput: 63.35 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 1.15%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 16:51:27

End at: 2018-02-16 16:51:57

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 136.444 ms

Loss rate: 1.32%

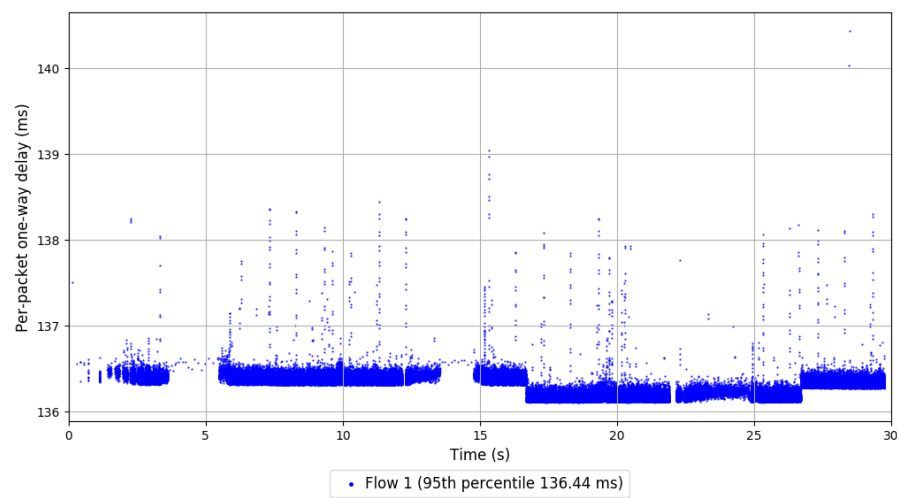
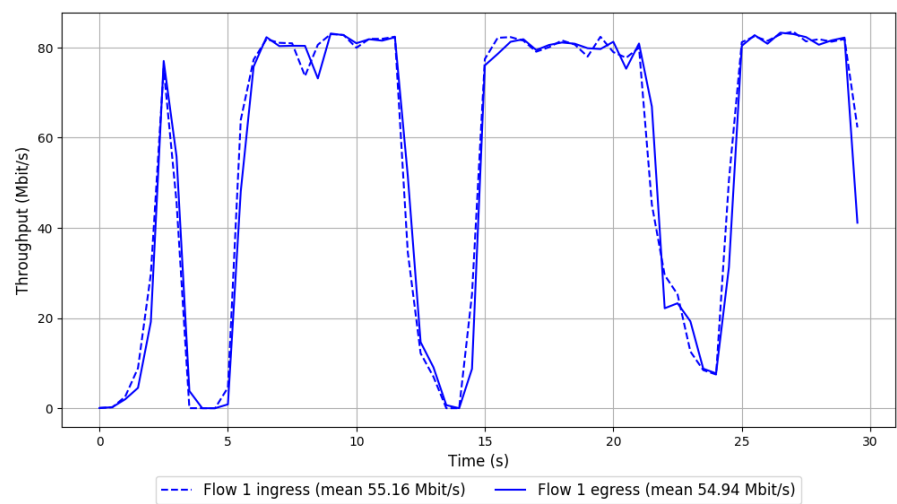
-- Flow 1:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 136.444 ms

Loss rate: 1.32%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 17:07:30

End at: 2018-02-16 17:08:00

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 136.395 ms

Loss rate: 1.11%

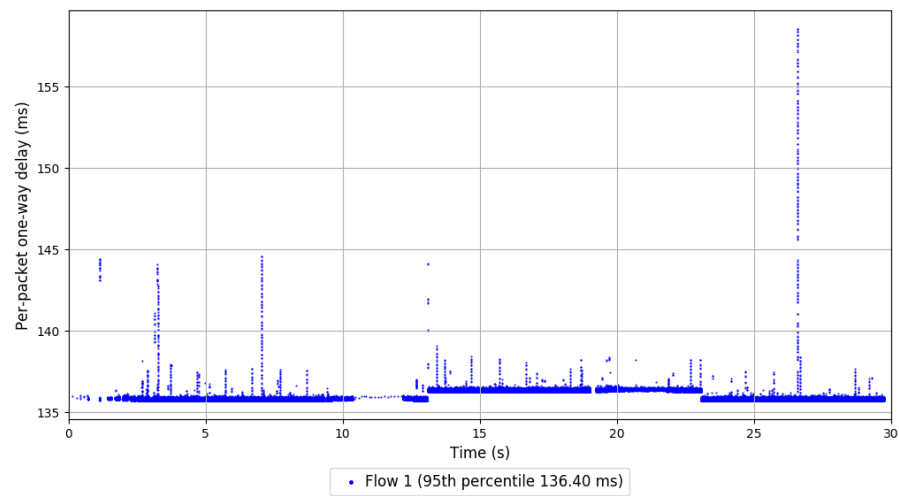
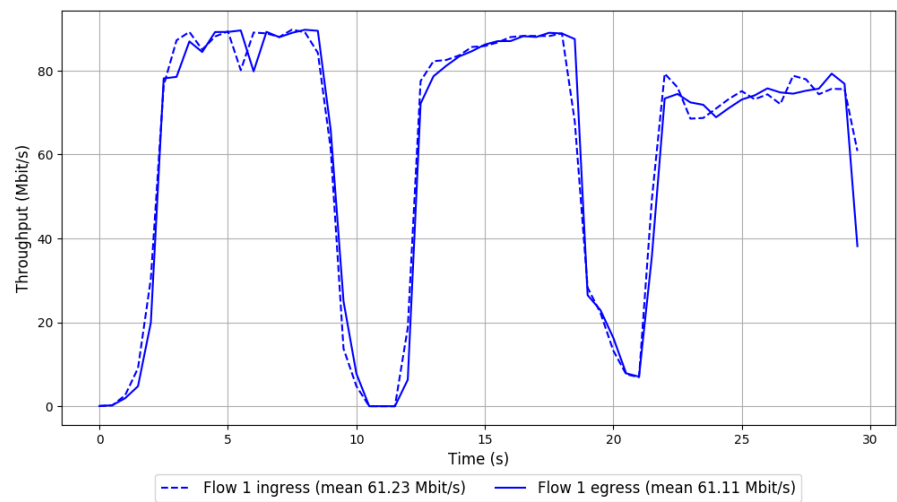
-- Flow 1:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 136.395 ms

Loss rate: 1.11%

Run 10: Report of QUIC Cubic — Data Link

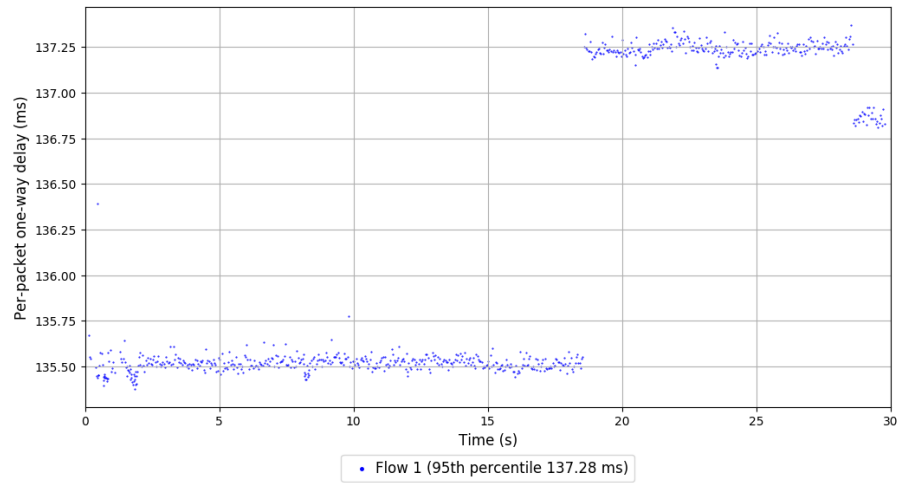
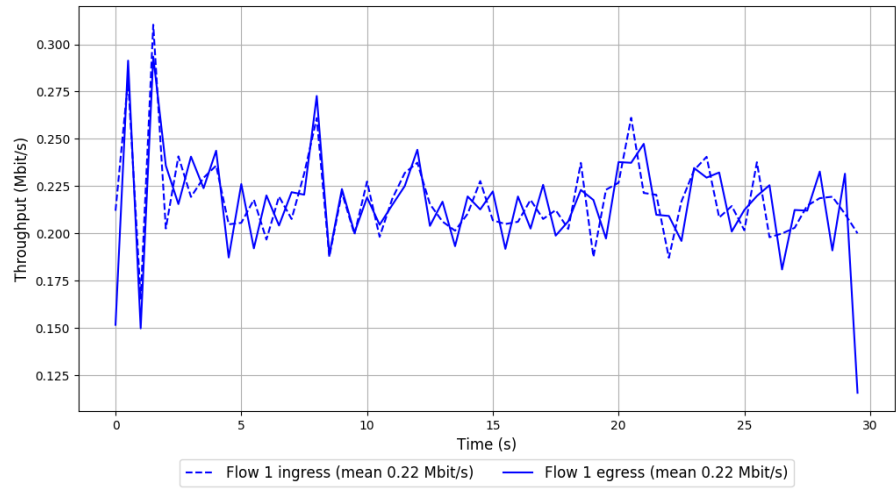


```
Run 1: Statistics of SCReAM

Start at: 2018-02-16 14:42:39
End at: 2018-02-16 14:43:09

# Below is generated by plot.py at 2018-02-16 20:31:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.279 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.279 ms
Loss rate: 1.03%
```

Run 1: Report of SReAM — Data Link

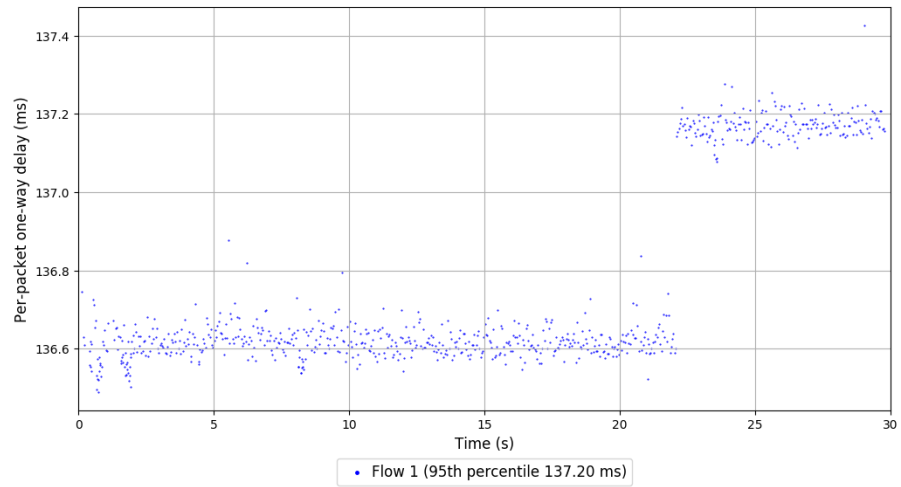
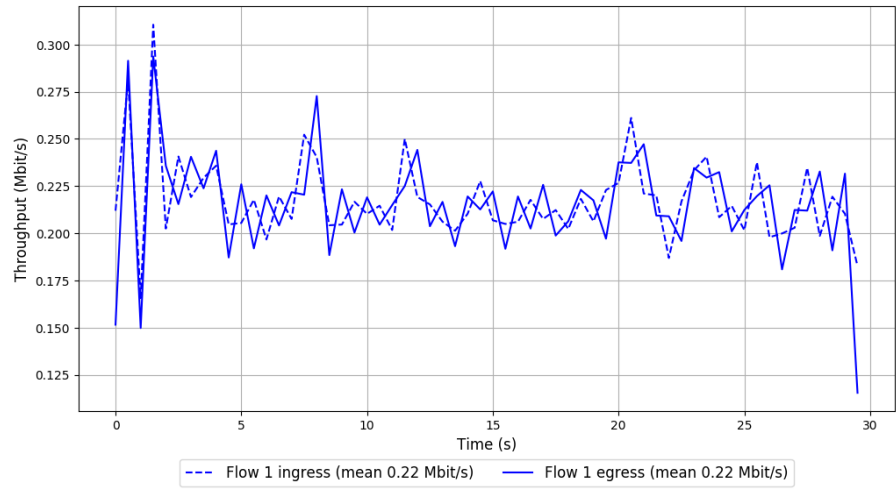


```
Run 2: Statistics of SCReAM

Start at: 2018-02-16 14:58:56
End at: 2018-02-16 14:59:26

# Below is generated by plot.py at 2018-02-16 20:31:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.198 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.198 ms
Loss rate: 0.89%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-16 15:15:20

End at: 2018-02-16 15:15:50

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 163.202 ms

Loss rate: 0.90%

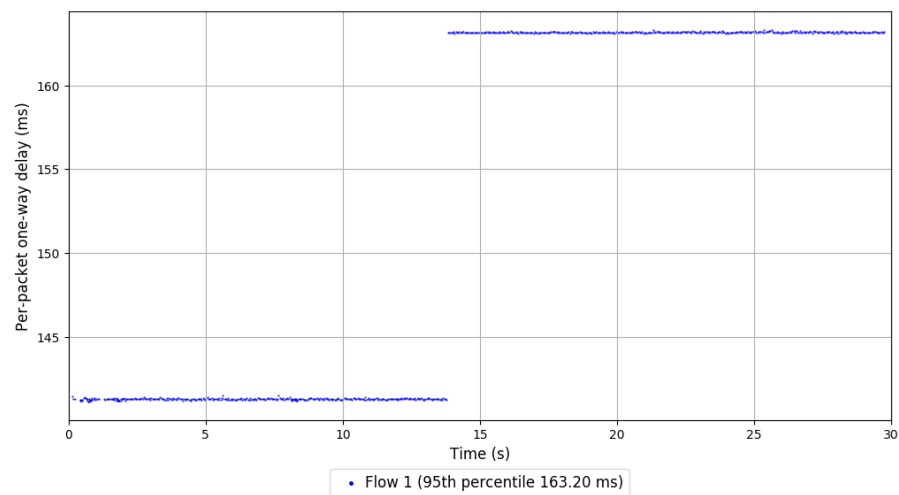
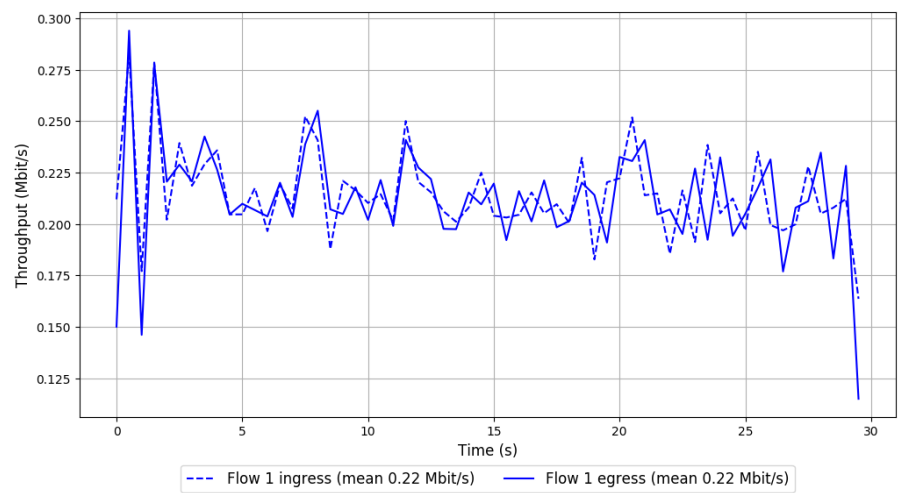
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 163.202 ms

Loss rate: 0.90%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-16 15:31:19

End at: 2018-02-16 15:31:49

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.228 ms

Loss rate: 1.03%

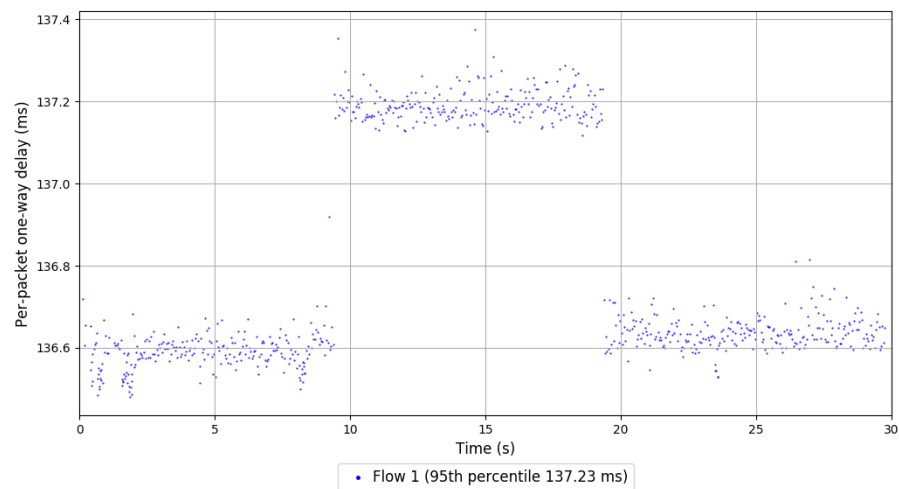
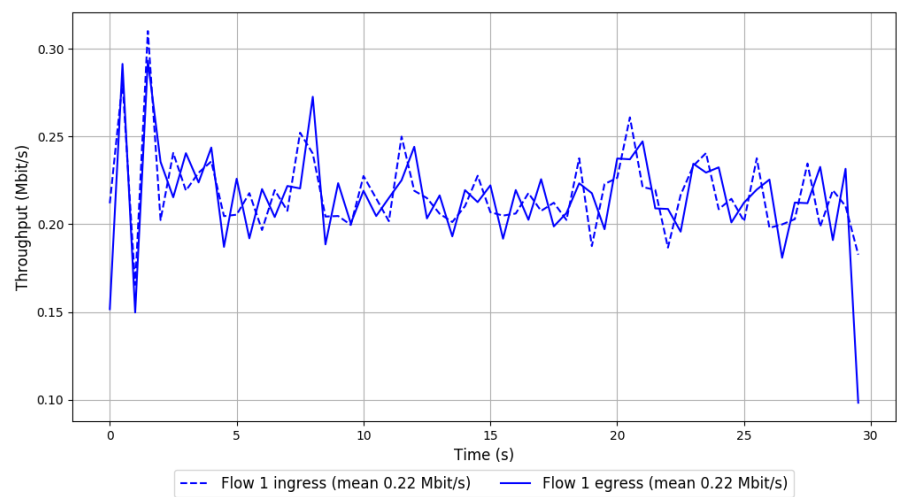
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.228 ms

Loss rate: 1.03%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-16 15:47:37

End at: 2018-02-16 15:48:07

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 1.03%

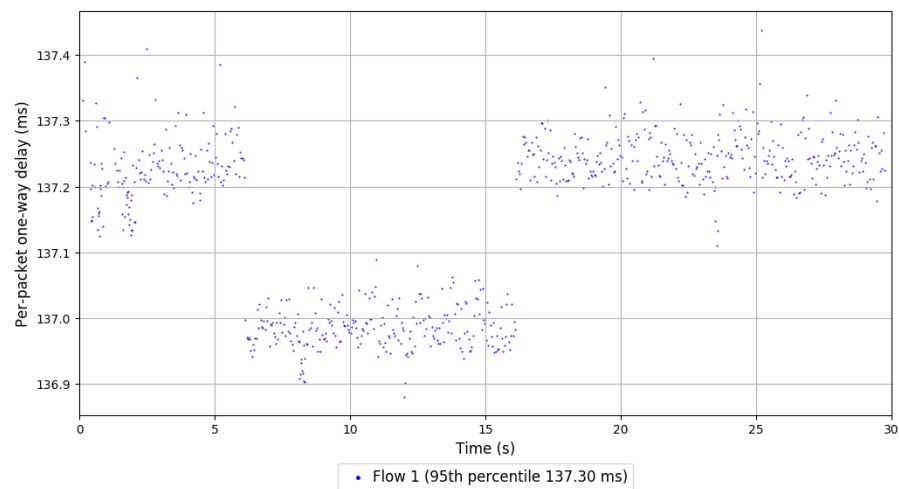
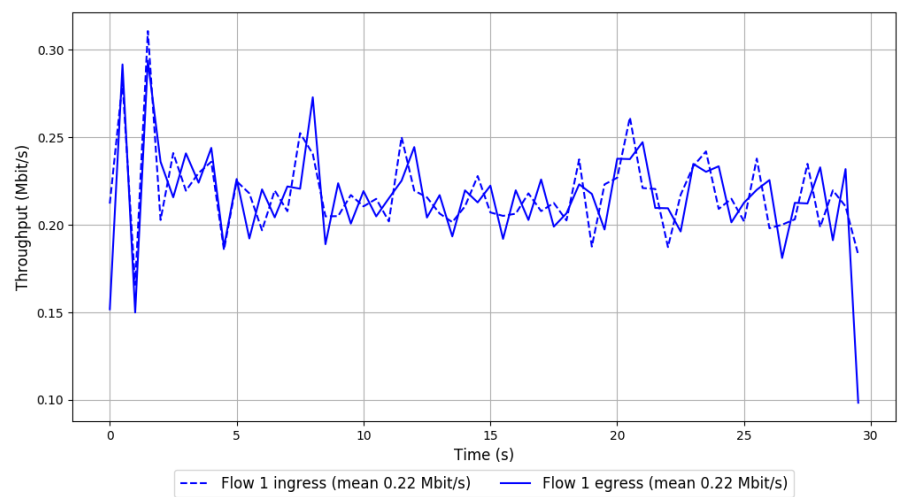
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 1.03%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-16 16:04:02

End at: 2018-02-16 16:04:32

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.934 ms

Loss rate: 0.89%

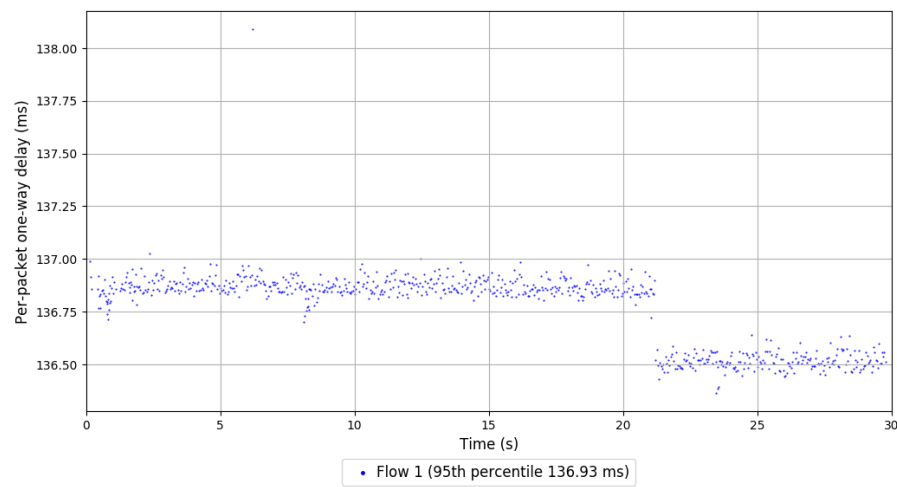
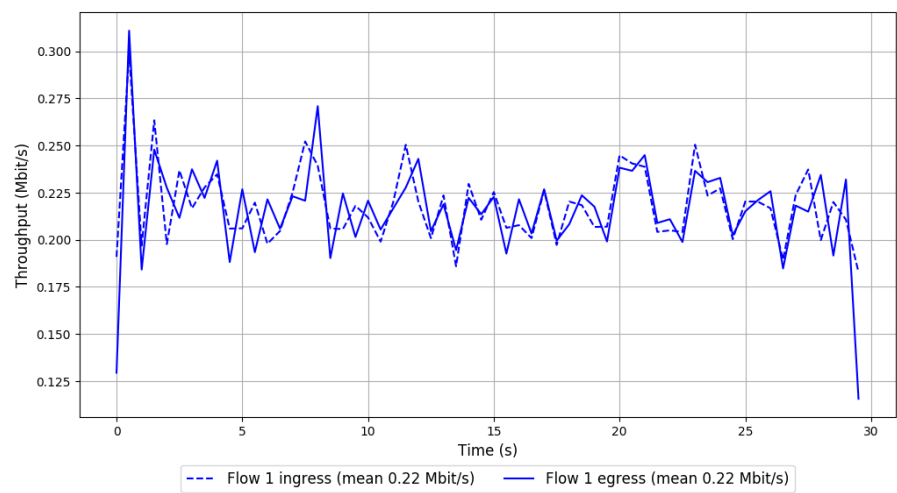
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.934 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-16 16:20:35

End at: 2018-02-16 16:21:05

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.418 ms

Loss rate: 0.89%

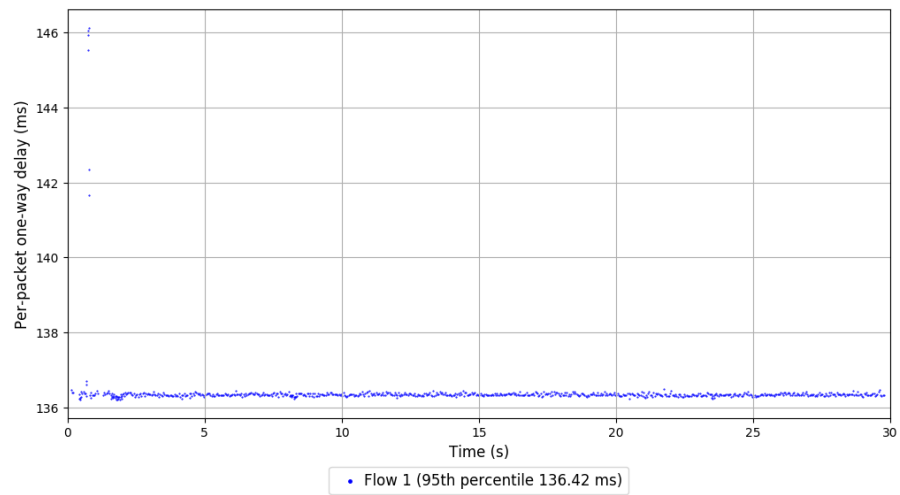
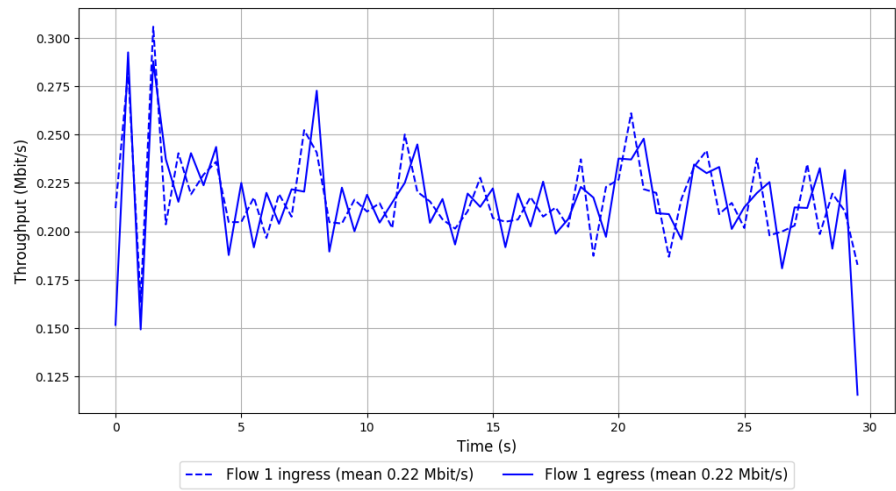
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.418 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-16 16:36:39

End at: 2018-02-16 16:37:09

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.89%

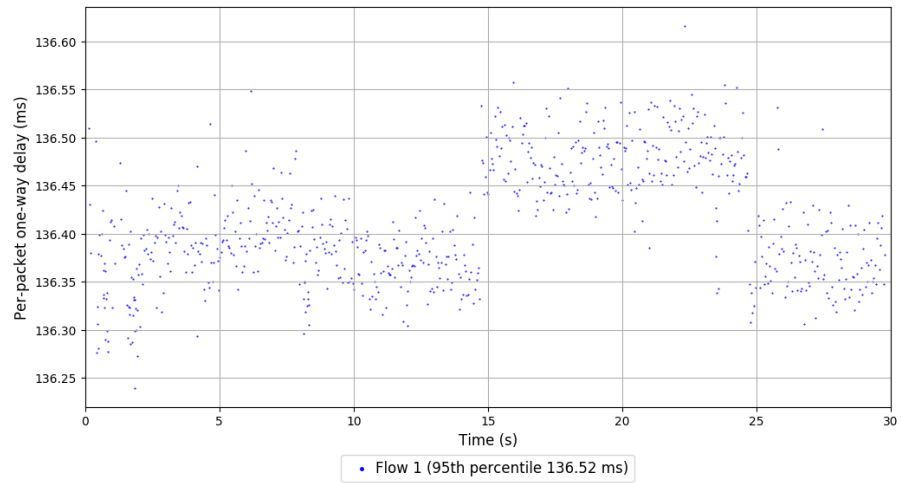
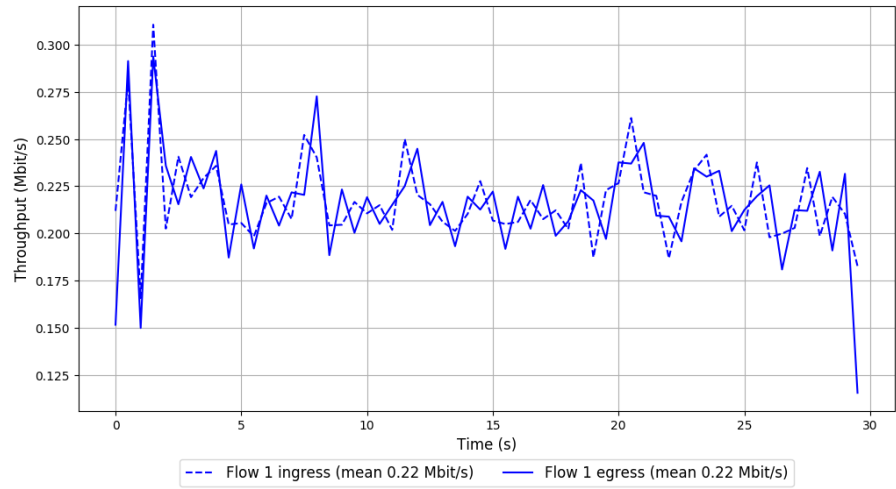
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 16:52:55

End at: 2018-02-16 16:53:25

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.441 ms

Loss rate: 0.89%

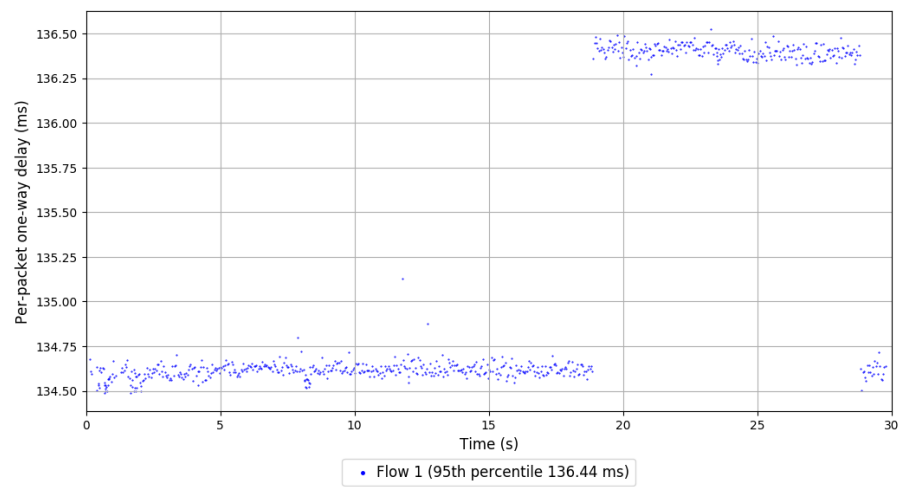
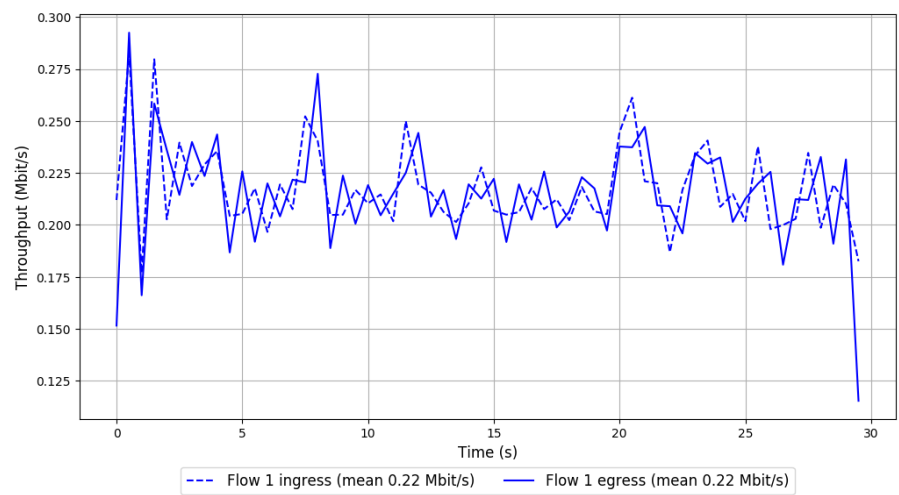
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.441 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 17:08:58

End at: 2018-02-16 17:09:28

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.90%

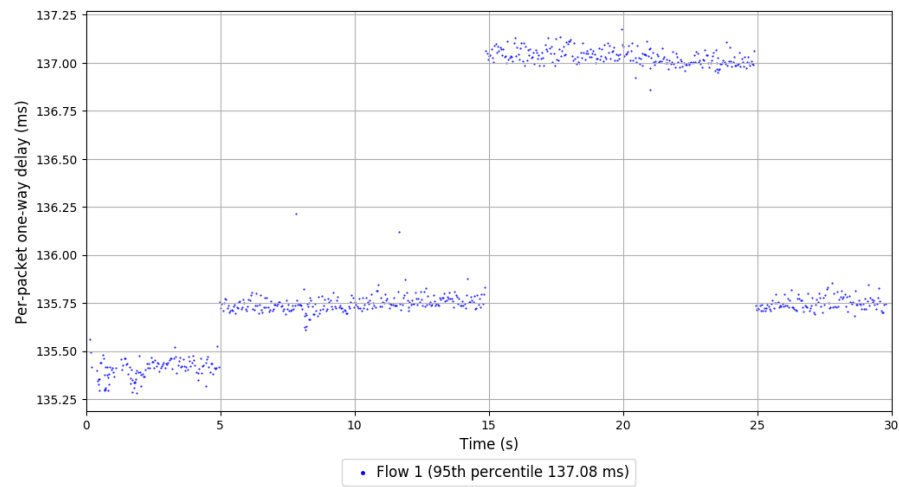
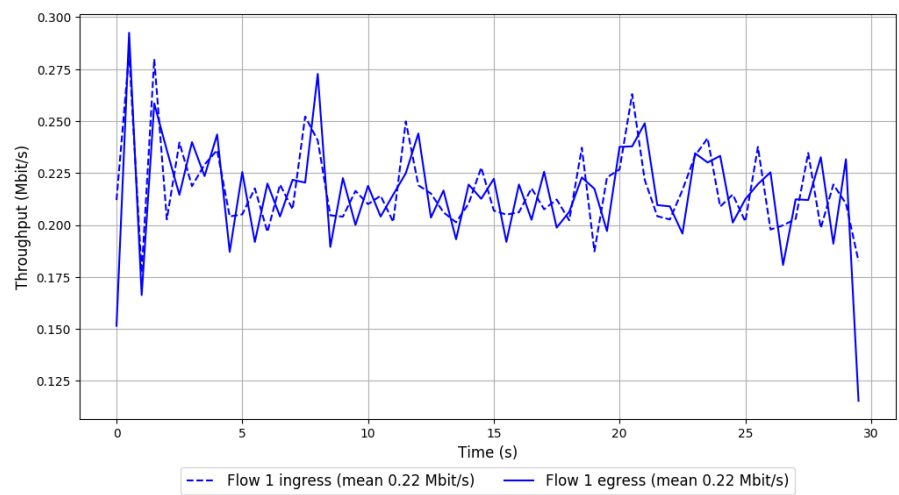
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.90%

Run 10: Report of SCRaM — Data Link

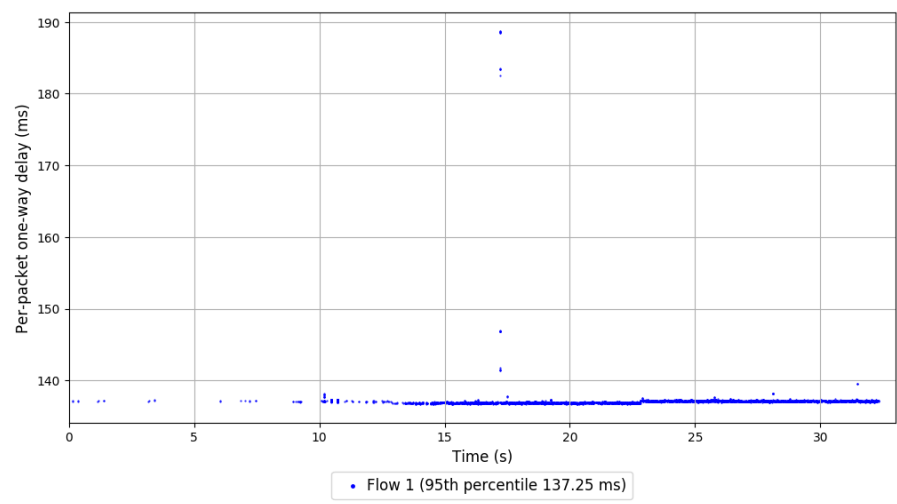
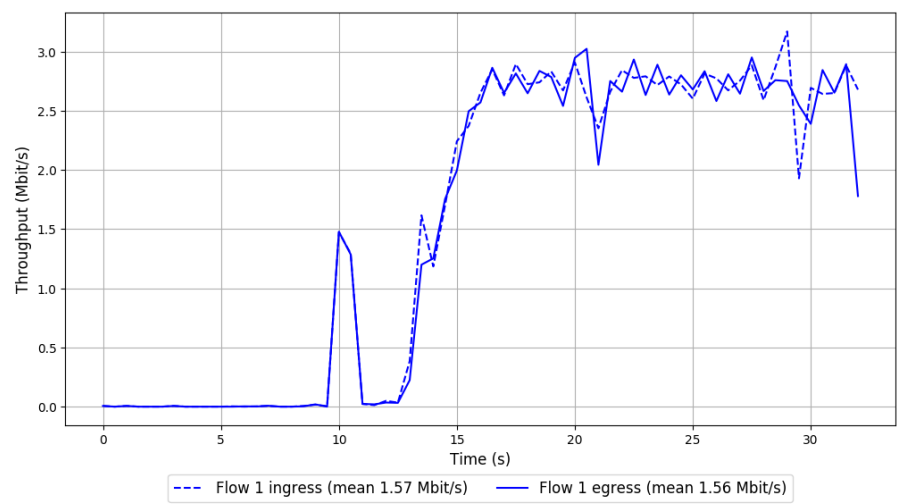


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-16 14:48:43
End at: 2018-02-16 14:49:13

# Below is generated by plot.py at 2018-02-16 20:31:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 137.249 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 137.249 ms
Loss rate: 1.53%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-16 15:05:10

End at: 2018-02-16 15:05:40

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.331 ms

Loss rate: 1.02%

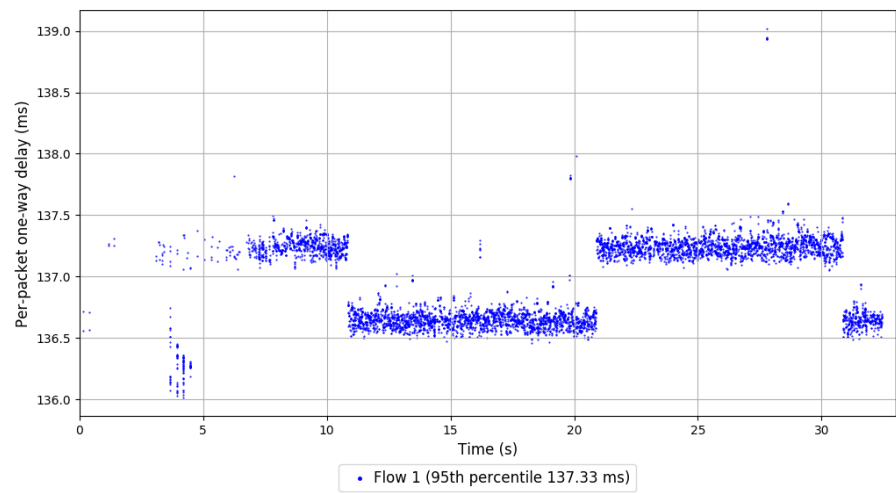
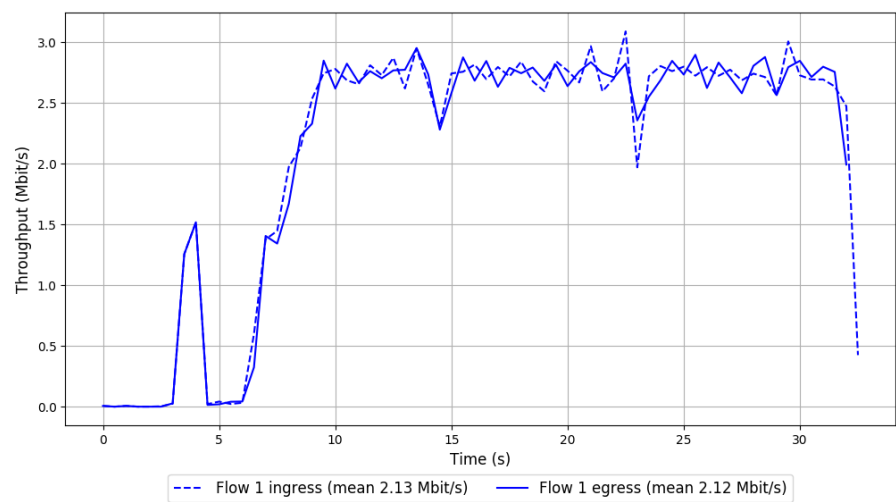
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.331 ms

Loss rate: 1.02%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-16 15:21:22

End at: 2018-02-16 15:21:52

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.983 ms

Loss rate: 1.02%

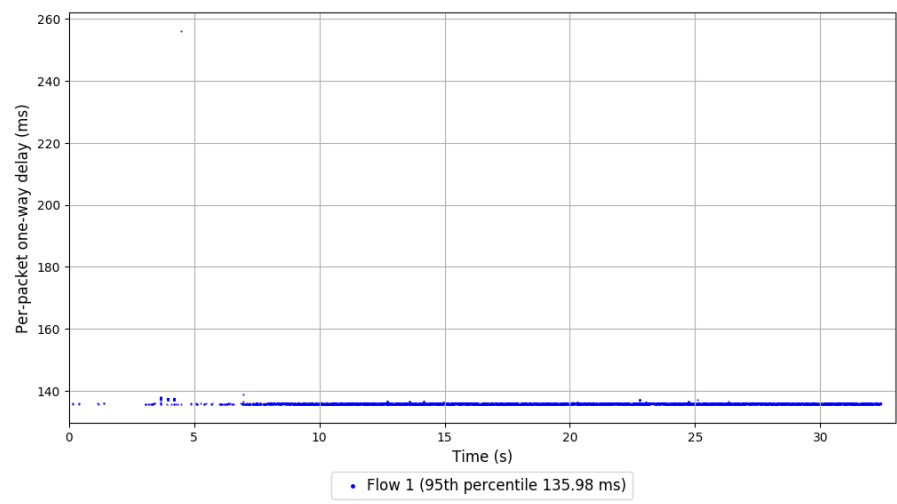
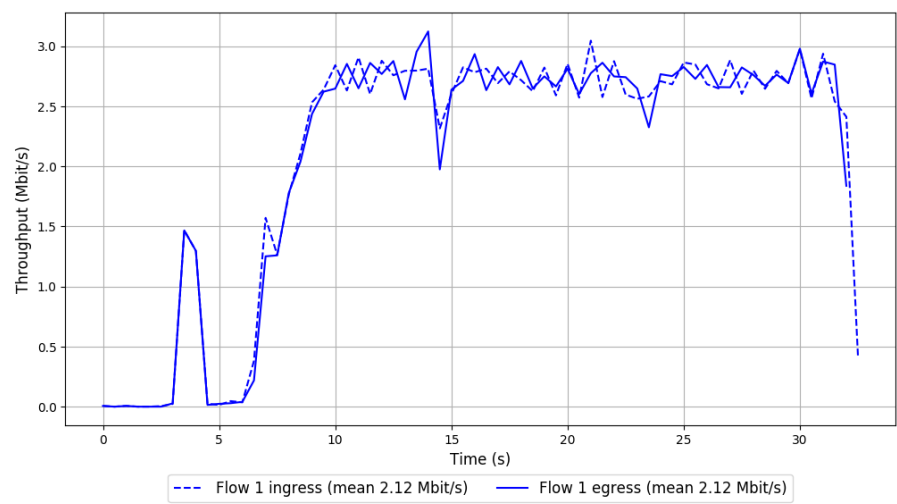
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.983 ms

Loss rate: 1.02%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-16 15:37:25

End at: 2018-02-16 15:37:55

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 141.918 ms

Loss rate: 1.21%

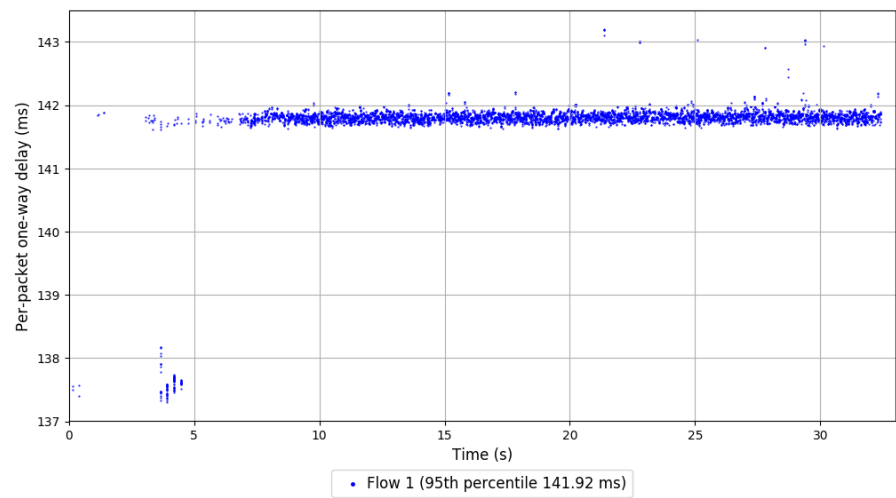
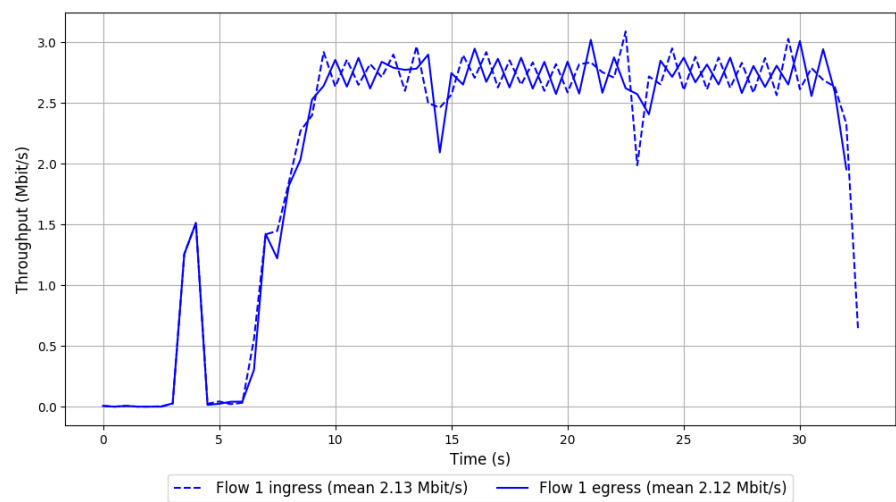
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 141.918 ms

Loss rate: 1.21%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-16 15:53:39

End at: 2018-02-16 15:54:09

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 138.031 ms

Loss rate: 1.05%

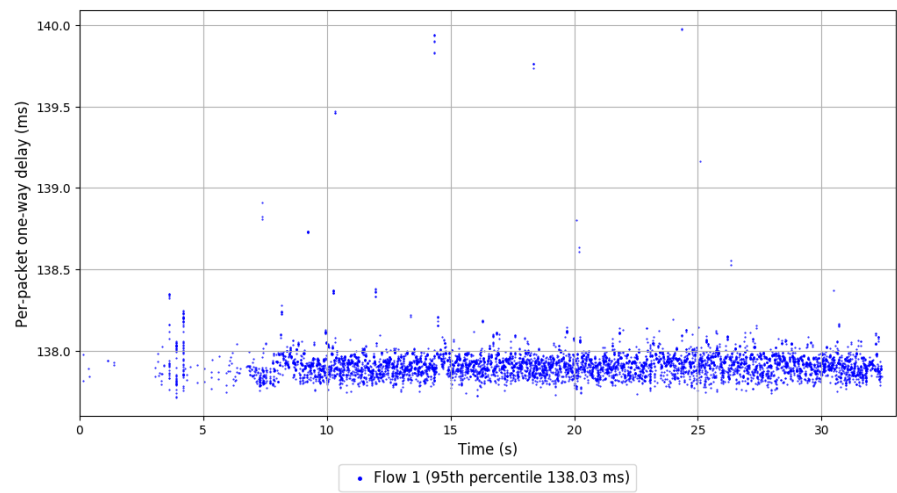
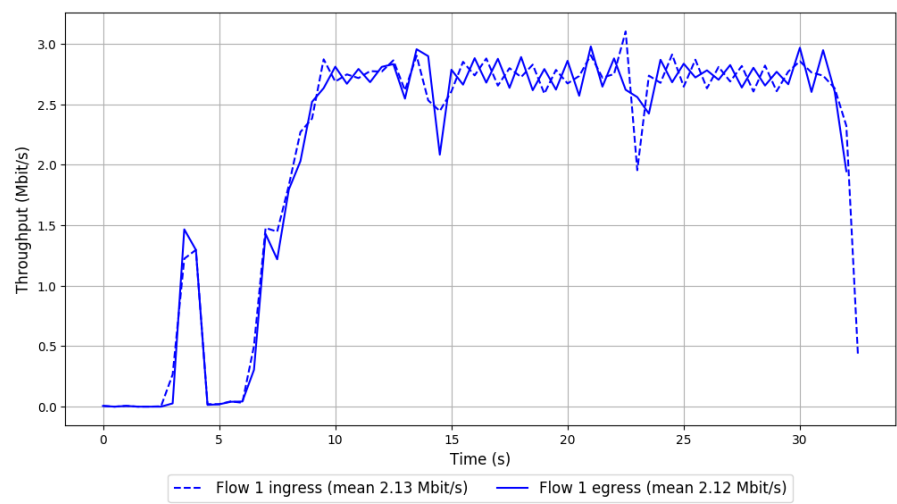
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 138.031 ms

Loss rate: 1.05%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-16 16:10:04

End at: 2018-02-16 16:10:34

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.537 ms

Loss rate: 1.04%

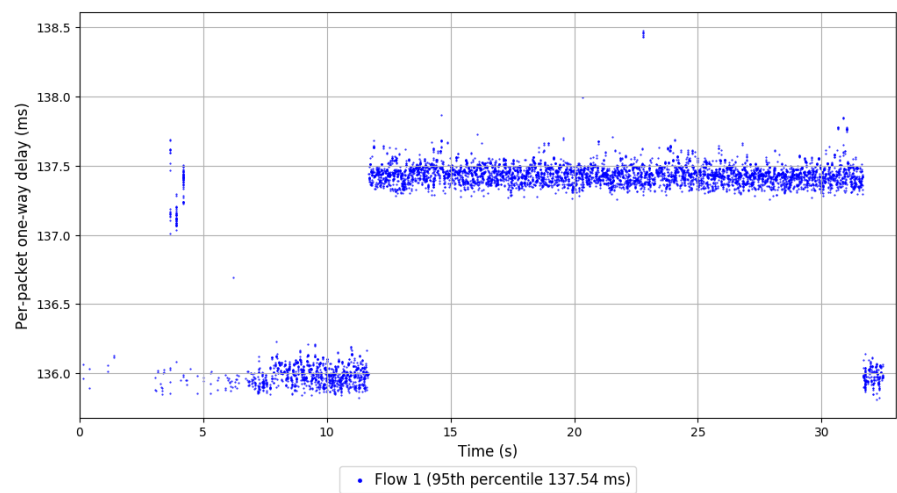
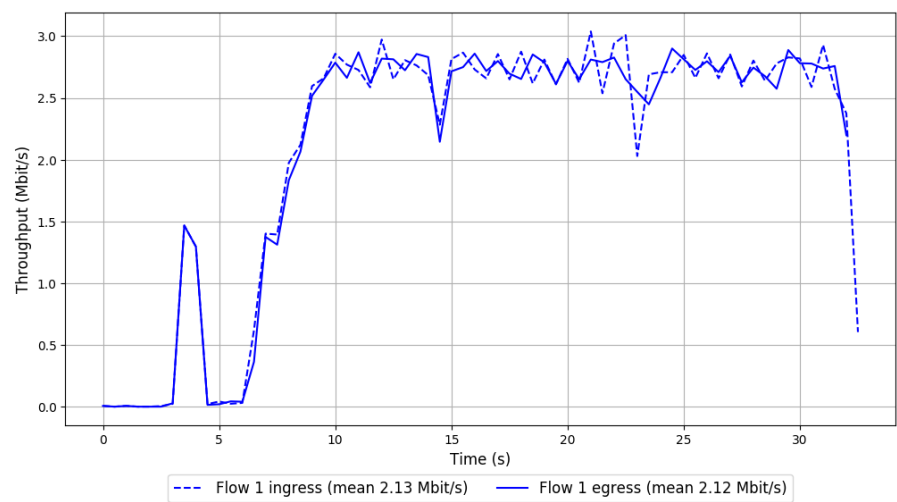
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.537 ms

Loss rate: 1.04%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-16 16:26:37

End at: 2018-02-16 16:27:07

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 141.022 ms

Loss rate: 1.08%

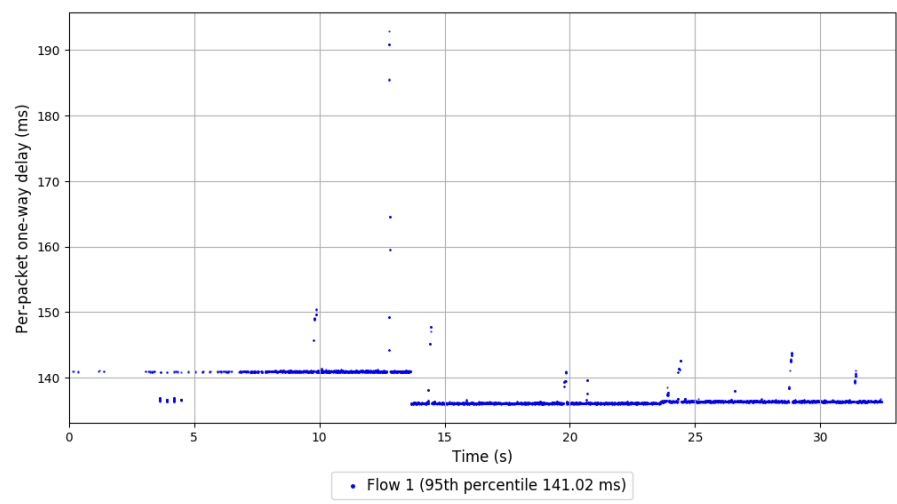
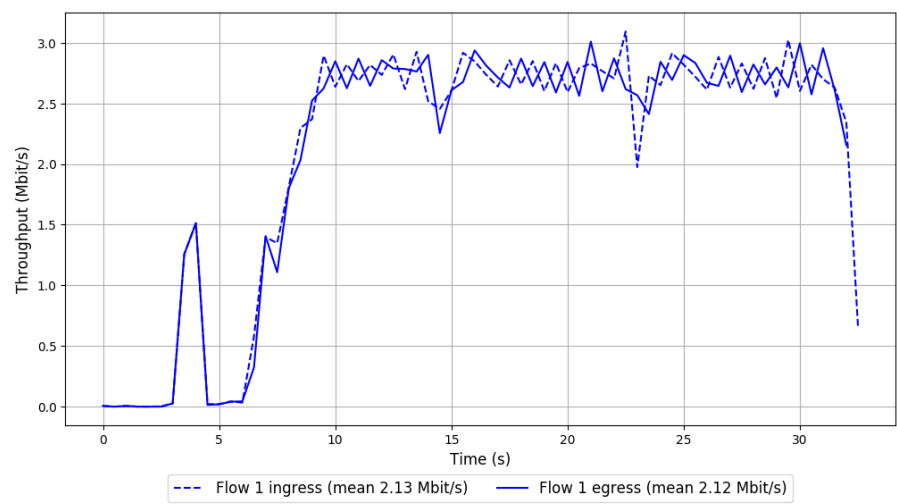
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 141.022 ms

Loss rate: 1.08%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-16 16:42:37

End at: 2018-02-16 16:43:07

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 136.614 ms

Loss rate: 0.96%

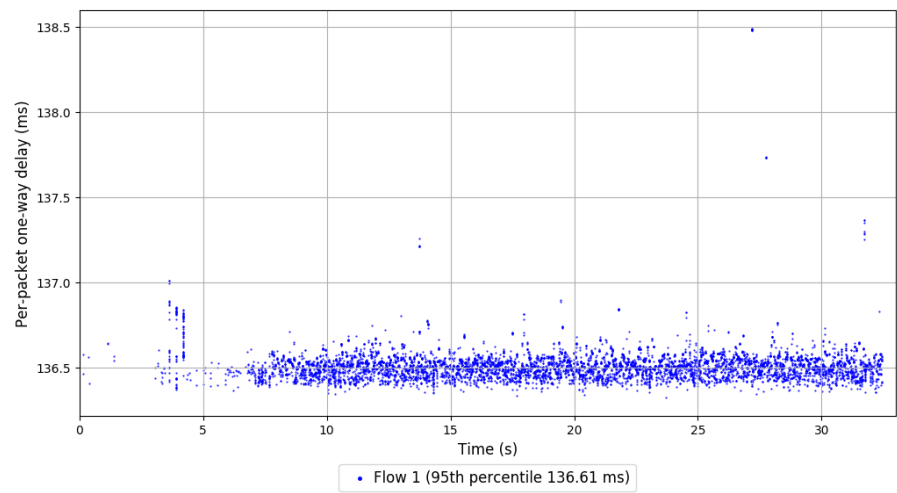
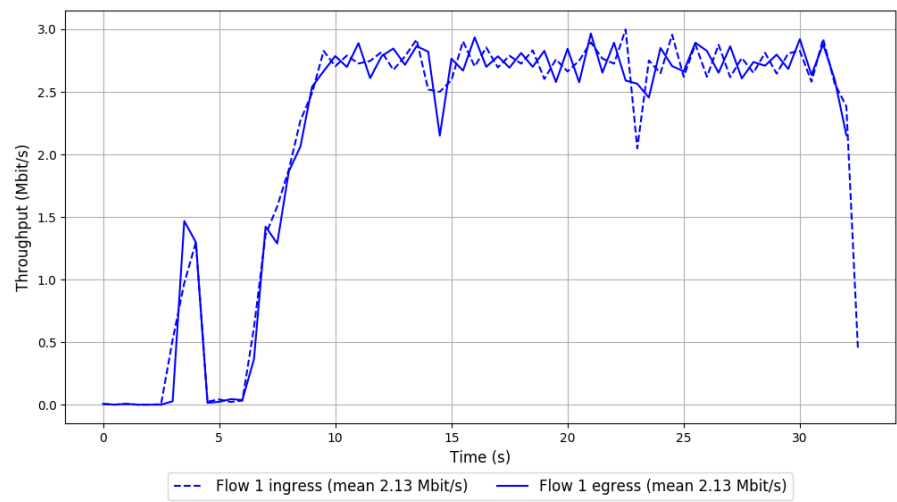
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 136.614 ms

Loss rate: 0.96%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 16:58:55

End at: 2018-02-16 16:59:25

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 136.252 ms

Loss rate: 1.06%

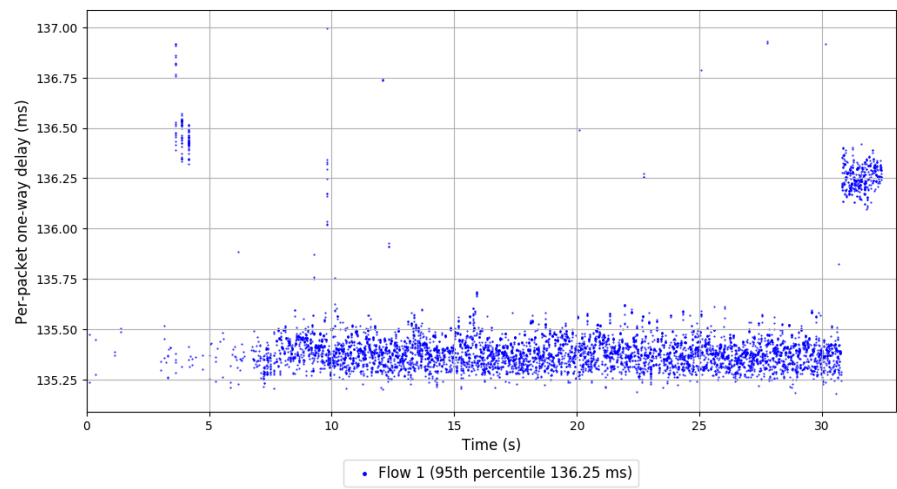
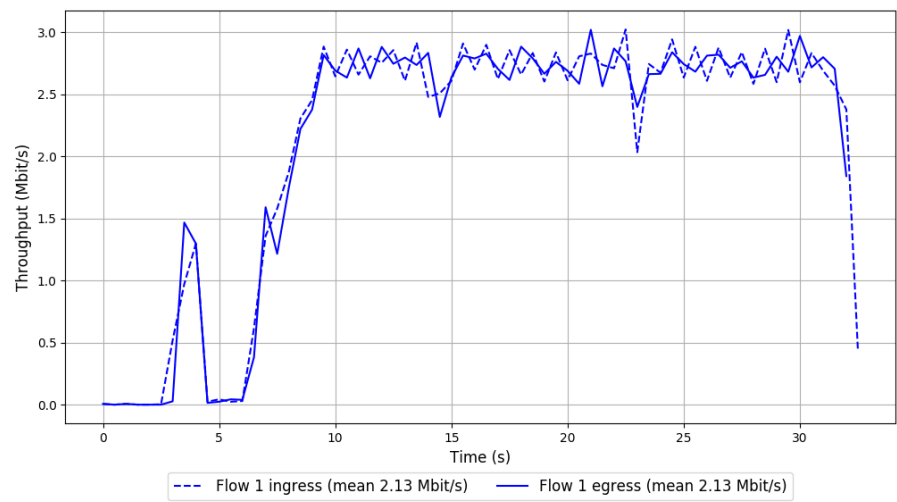
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 136.252 ms

Loss rate: 1.06%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 17:14:58

End at: 2018-02-16 17:15:28

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.188 ms

Loss rate: 1.04%

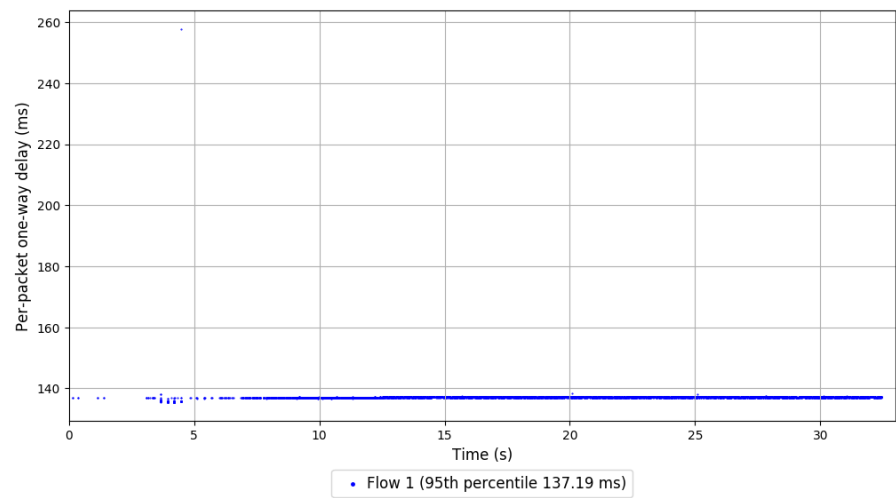
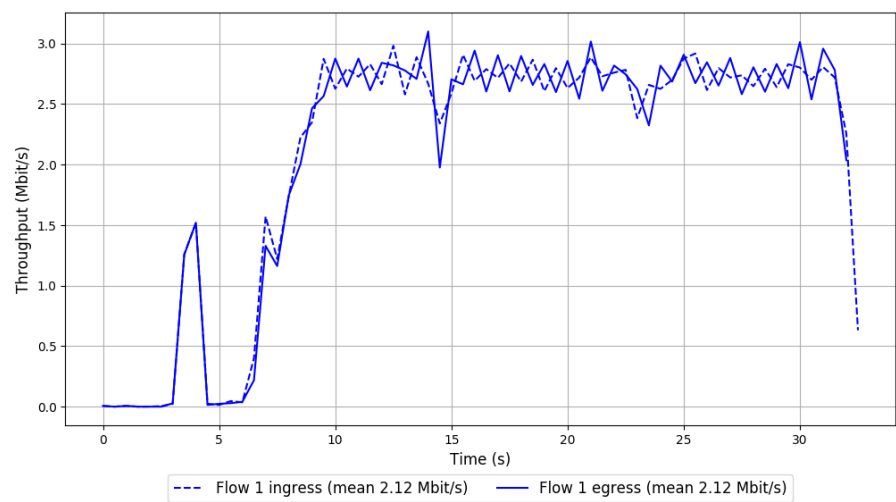
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.188 ms

Loss rate: 1.04%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-16 14:41:57

End at: 2018-02-16 14:42:27

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 141.135 ms

Loss rate: 0.78%

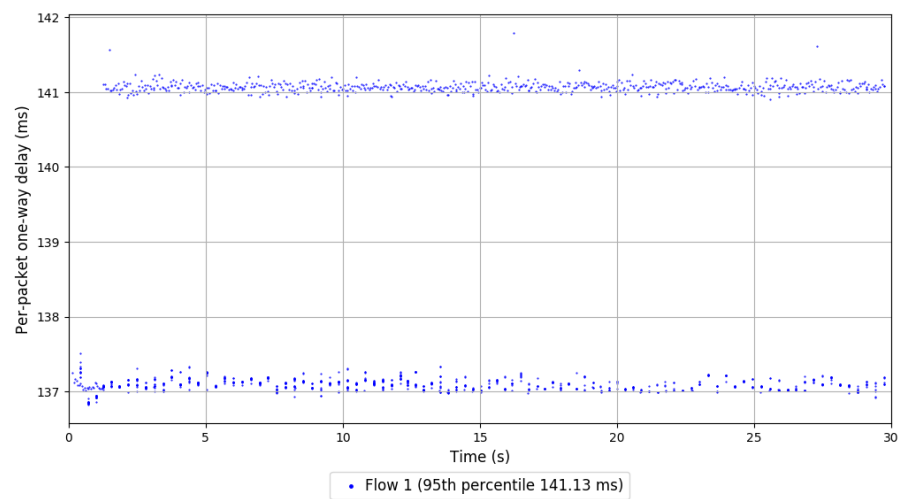
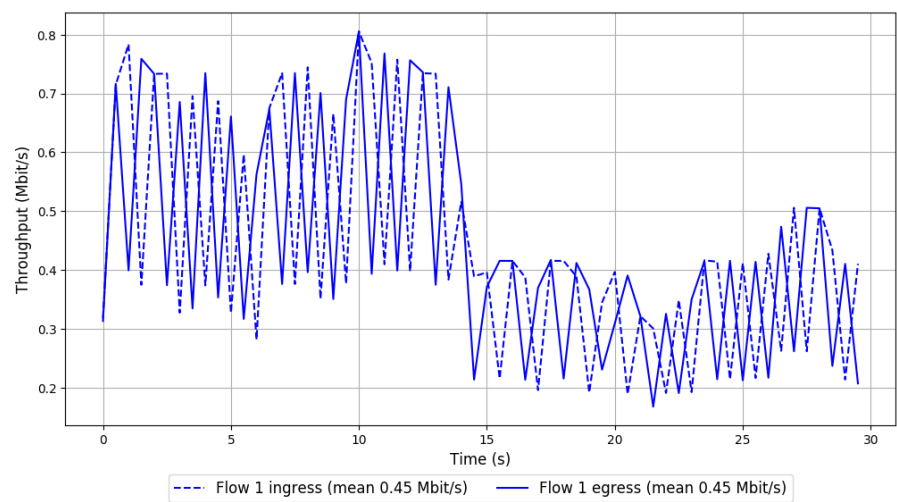
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 141.135 ms

Loss rate: 0.78%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-16 14:58:14

End at: 2018-02-16 14:58:44

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 141.292 ms

Loss rate: 0.81%

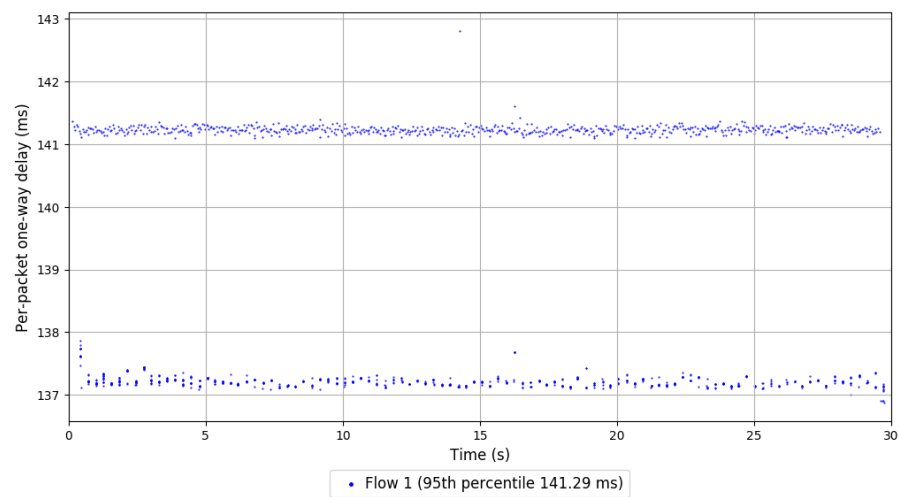
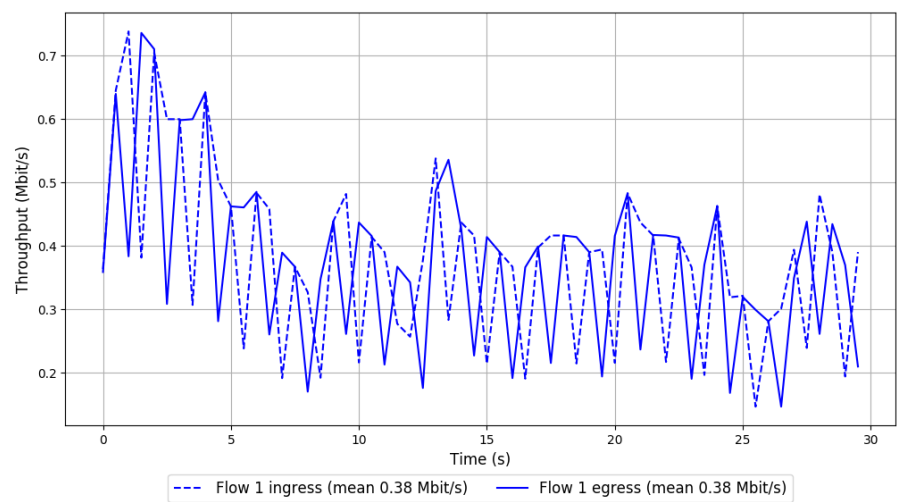
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 141.292 ms

Loss rate: 0.81%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-16 15:14:38

End at: 2018-02-16 15:15:08

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 163.154 ms

Loss rate: 1.02%

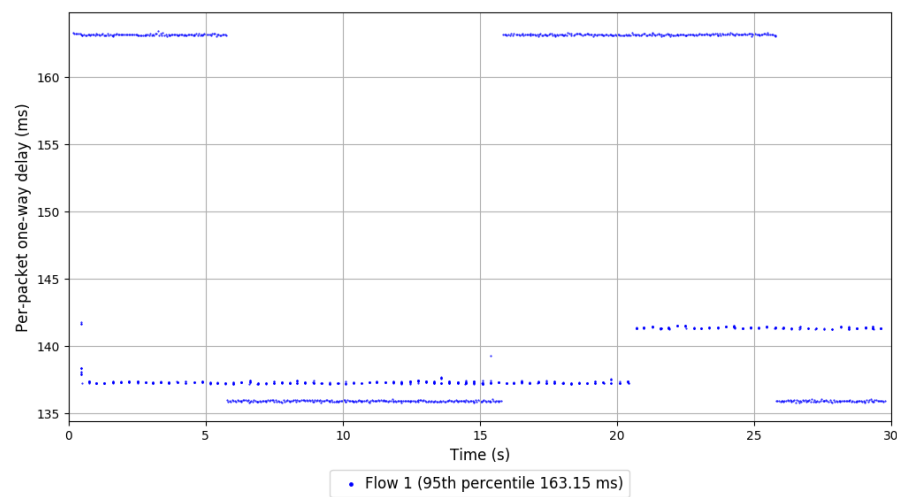
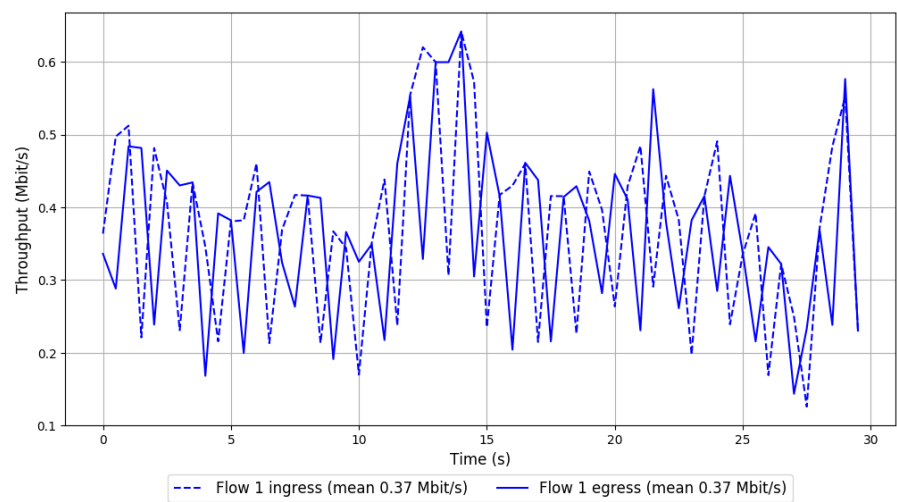
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 163.154 ms

Loss rate: 1.02%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-16 15:30:36

End at: 2018-02-16 15:31:06

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.503 ms

Loss rate: 0.97%

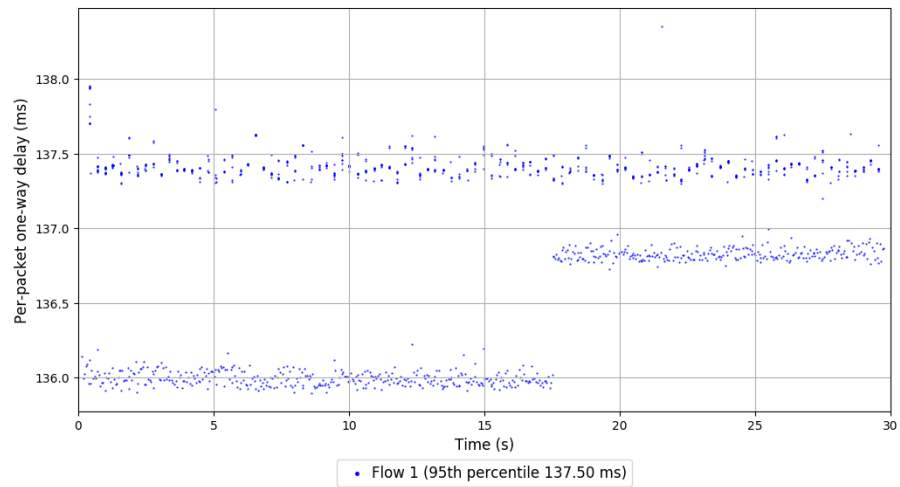
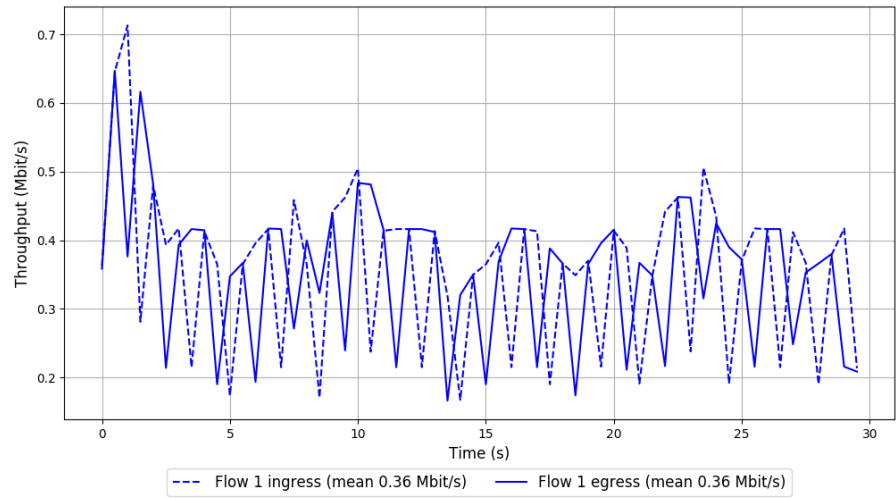
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.503 ms

Loss rate: 0.97%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-16 15:46:54

End at: 2018-02-16 15:47:25

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 138.162 ms

Loss rate: 1.22%

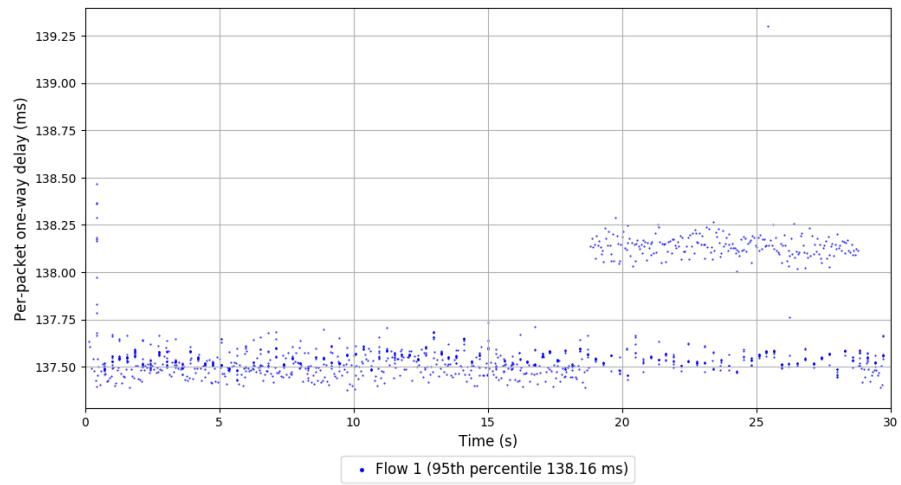
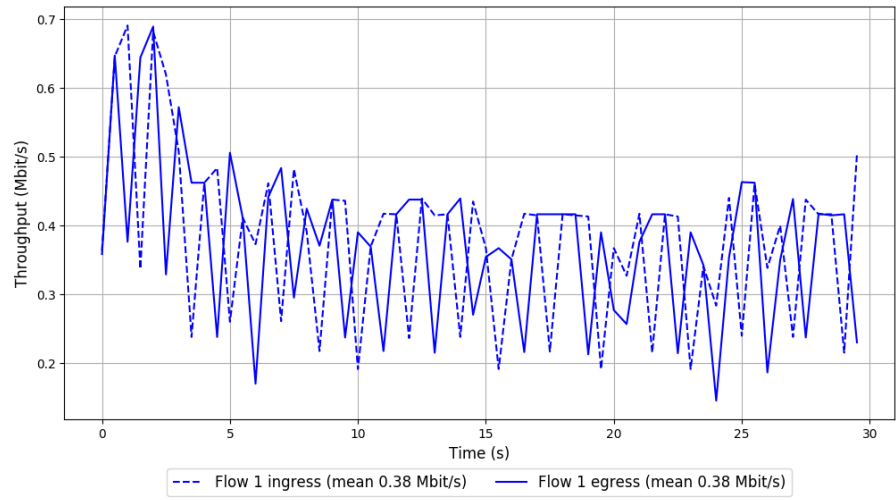
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 138.162 ms

Loss rate: 1.22%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-16 16:03:20

End at: 2018-02-16 16:03:50

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 137.625 ms

Loss rate: 0.93%

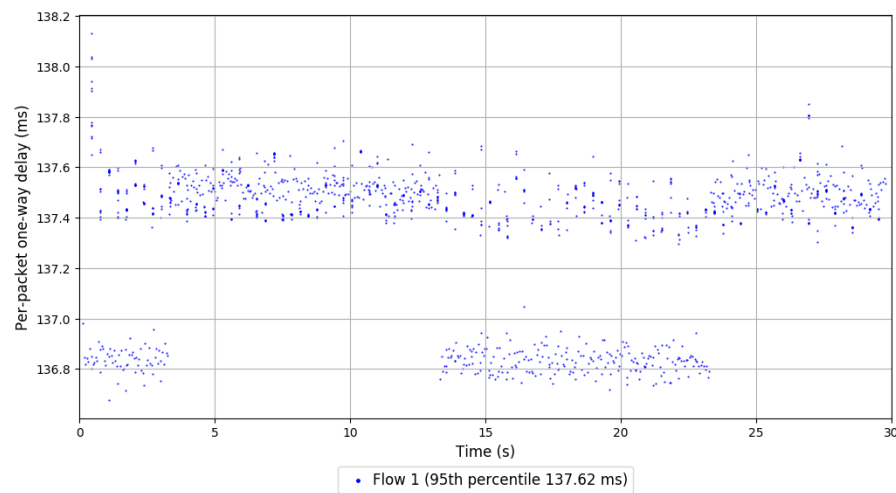
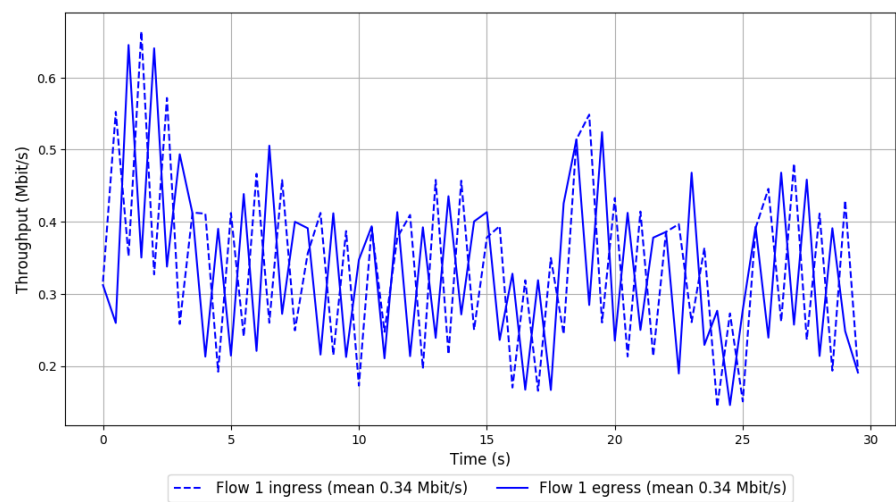
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 137.625 ms

Loss rate: 0.93%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-16 16:19:53

End at: 2018-02-16 16:20:23

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 140.630 ms

Loss rate: 1.04%

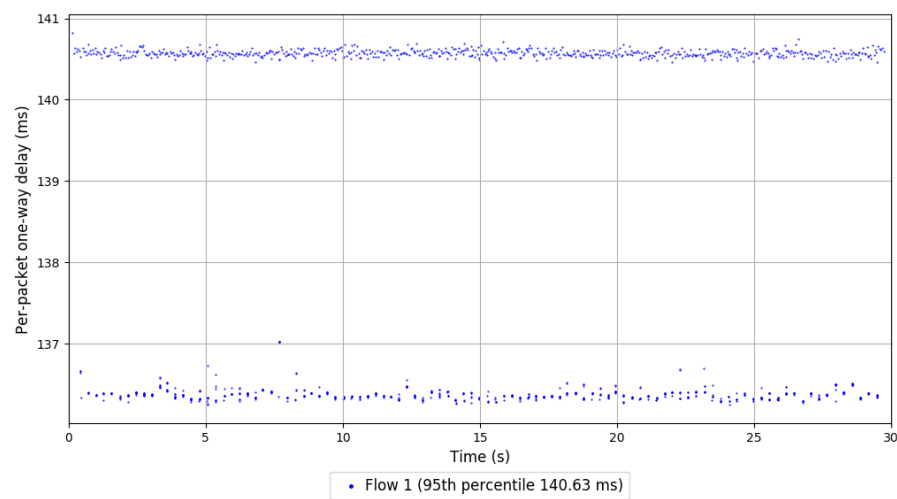
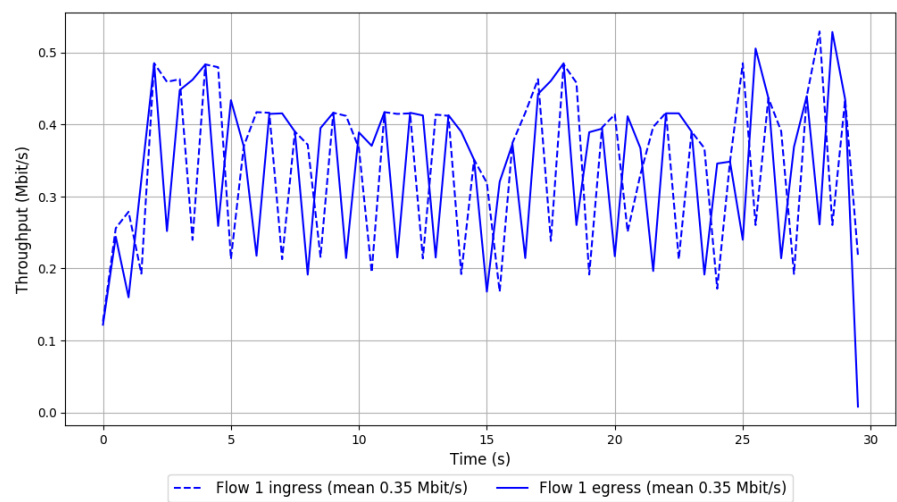
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 140.630 ms

Loss rate: 1.04%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-16 16:35:57

End at: 2018-02-16 16:36:27

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.564 ms

Loss rate: 0.88%

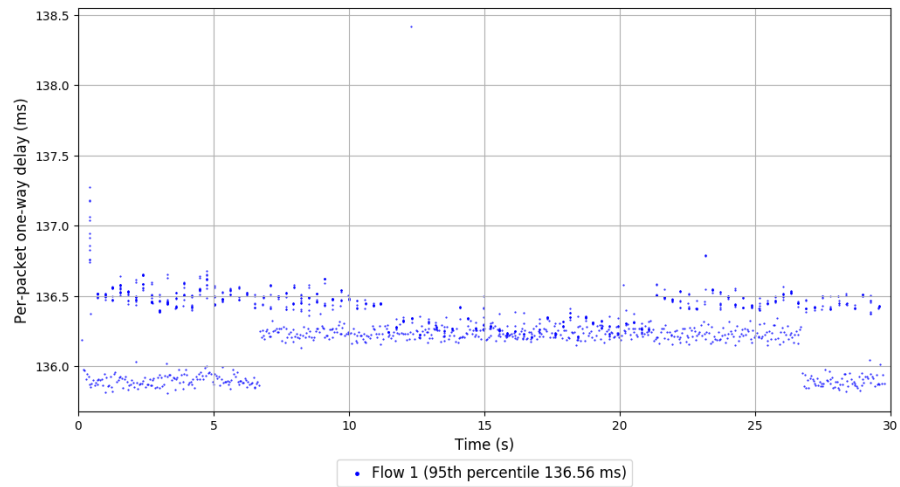
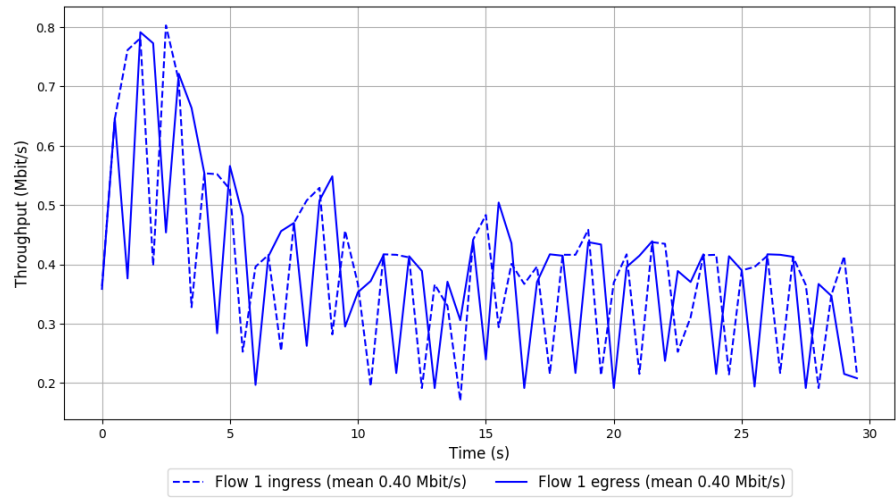
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.564 ms

Loss rate: 0.88%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 16:52:13

End at: 2018-02-16 16:52:43

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 140.945 ms

Loss rate: 1.06%

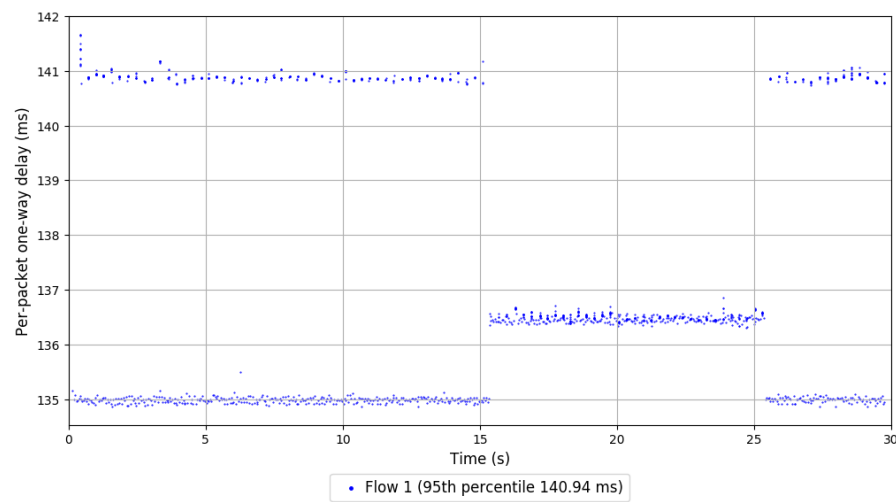
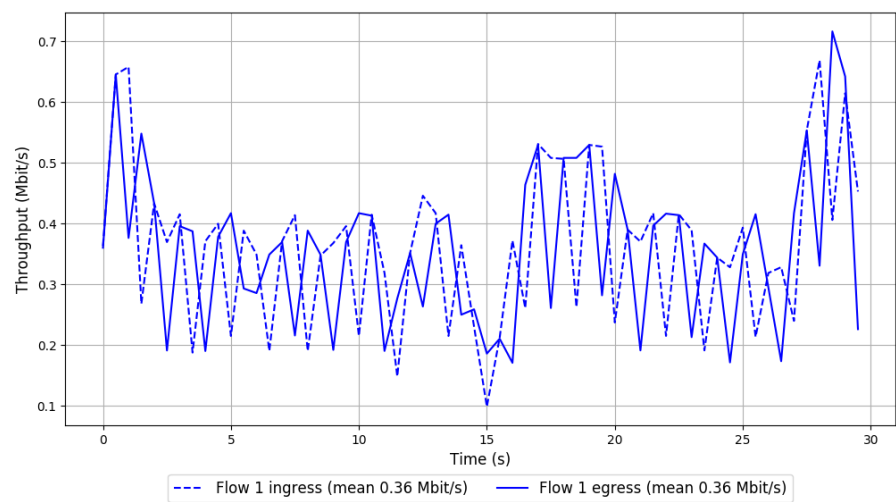
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 140.945 ms

Loss rate: 1.06%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 17:08:17

End at: 2018-02-16 17:08:47

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.659 ms

Loss rate: 1.53%

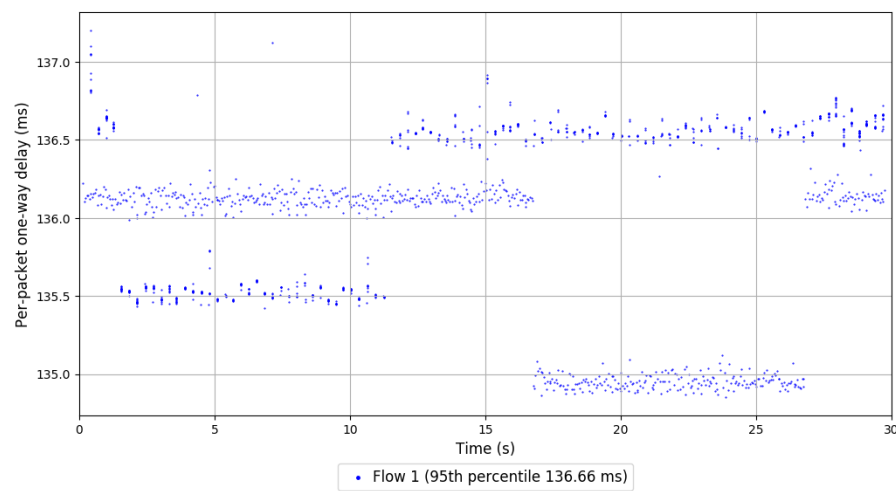
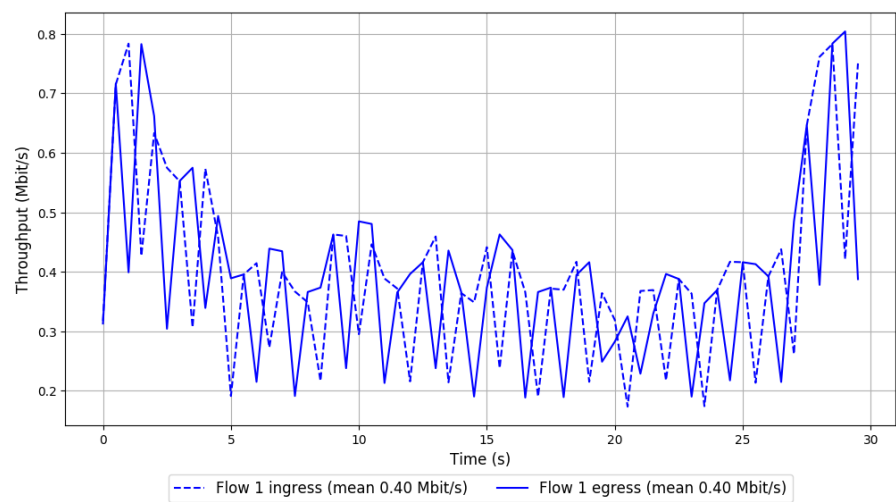
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.659 ms

Loss rate: 1.53%

Run 10: Report of Sprout — Data Link

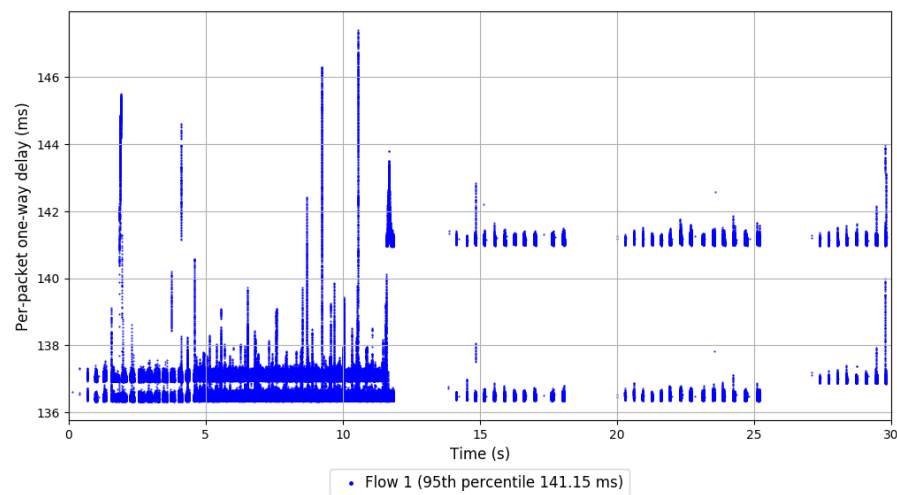
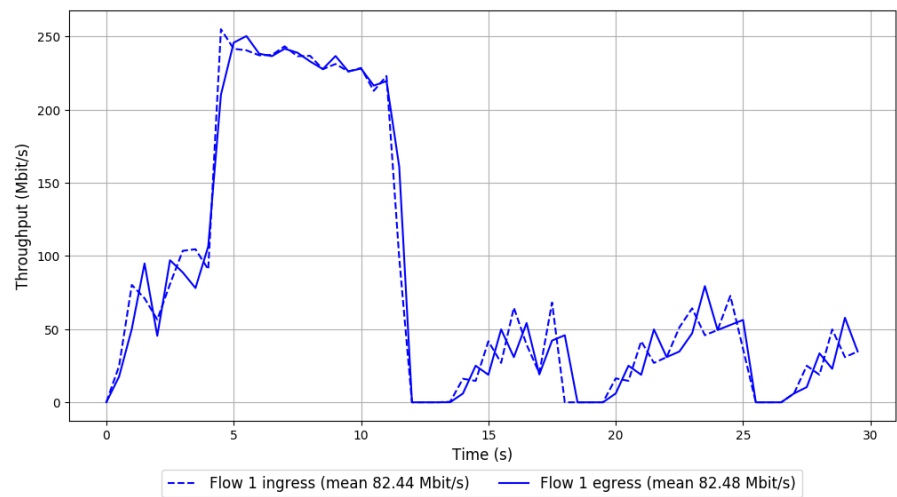


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 14:51:26
End at: 2018-02-16 14:51:56

# Below is generated by plot.py at 2018-02-16 20:31:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.48 Mbit/s
95th percentile per-packet one-way delay: 141.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.48 Mbit/s
95th percentile per-packet one-way delay: 141.152 ms
Loss rate: 0.00%
```

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

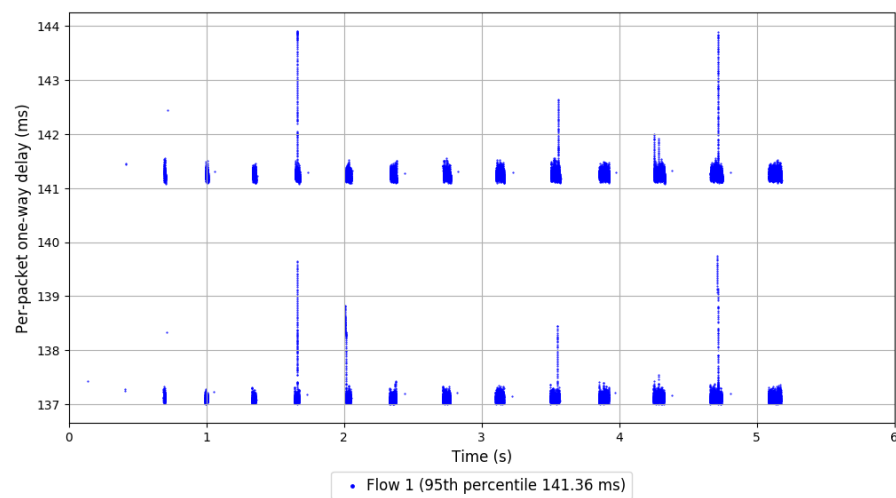
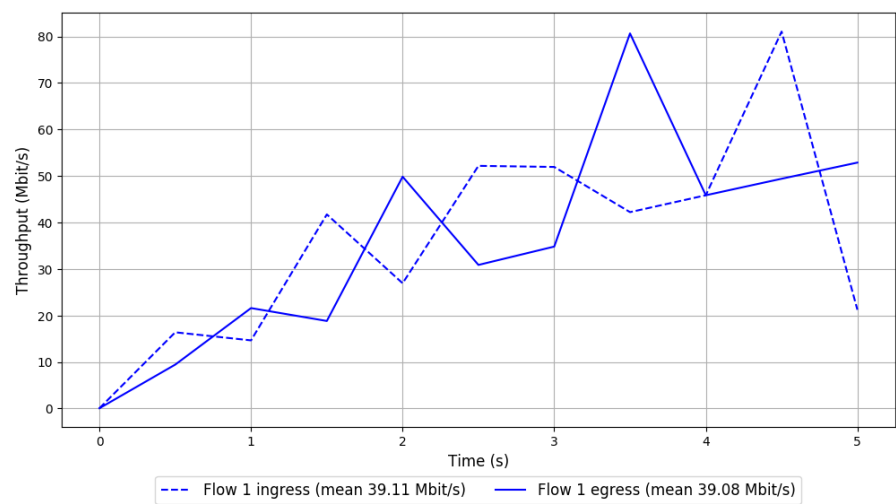


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 15:07:55

End at: 2018-02-16 15:08:25

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 15:24:06

End at: 2018-02-16 15:24:36

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 162.856 ms

Loss rate: 0.00%

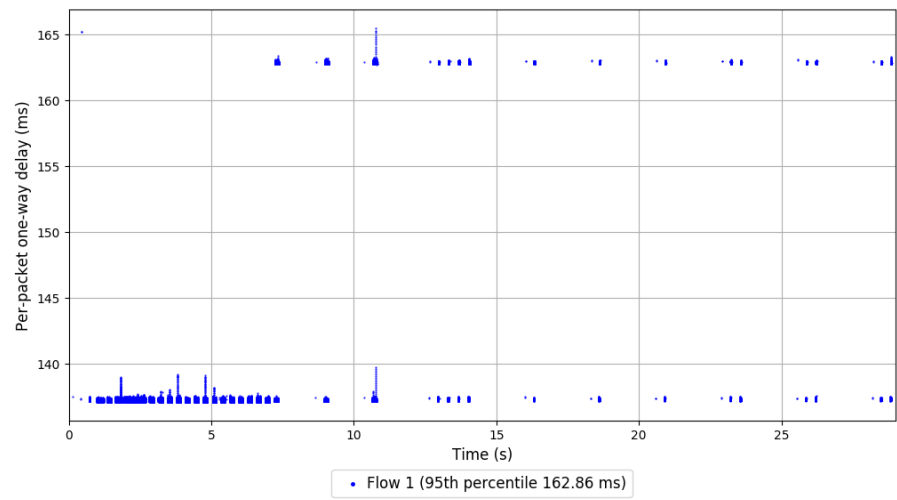
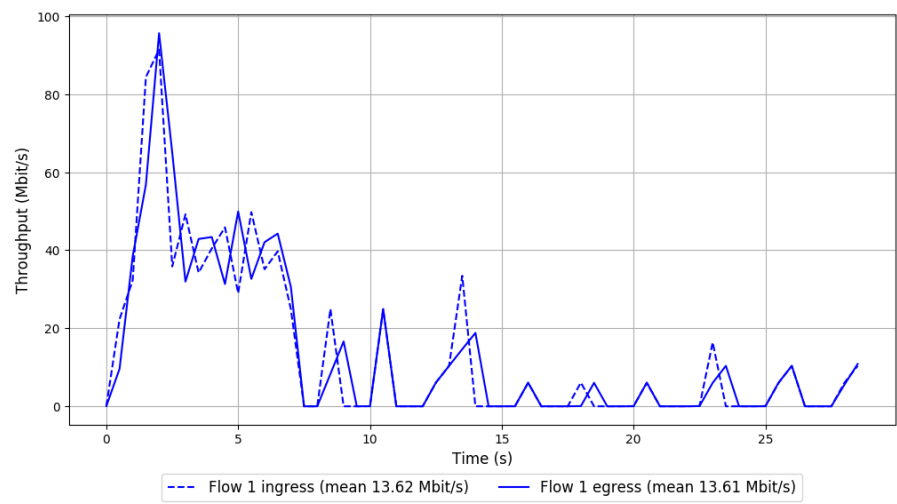
-- Flow 1:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 162.856 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 15:40:13

End at: 2018-02-16 15:40:43

Below is generated by plot.py at 2018-02-16 20:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 137.477 ms

Loss rate: 1.01%

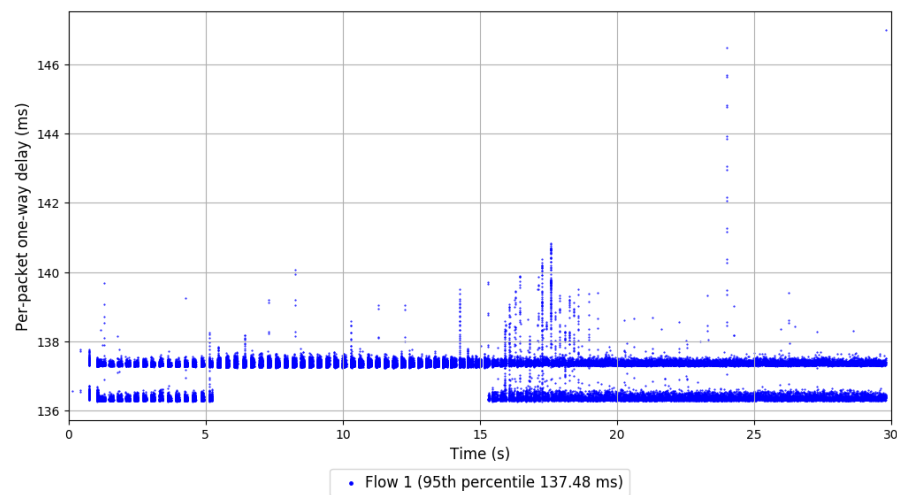
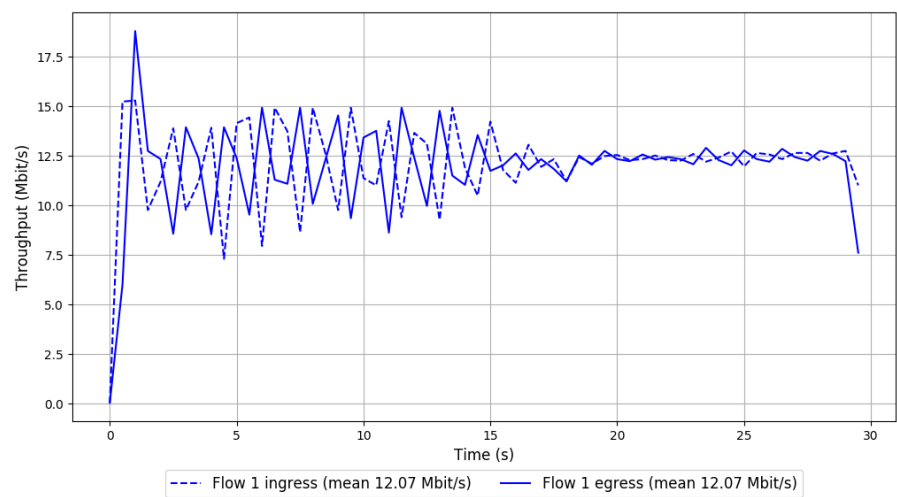
-- Flow 1:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 137.477 ms

Loss rate: 1.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 15:56:26

End at: 2018-02-16 15:56:56

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.65 Mbit/s

95th percentile per-packet one-way delay: 138.004 ms

Loss rate: 0.45%

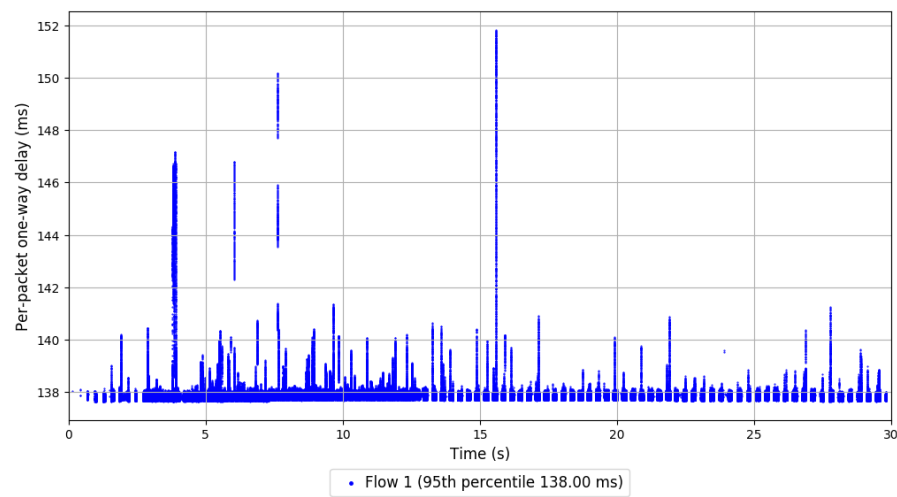
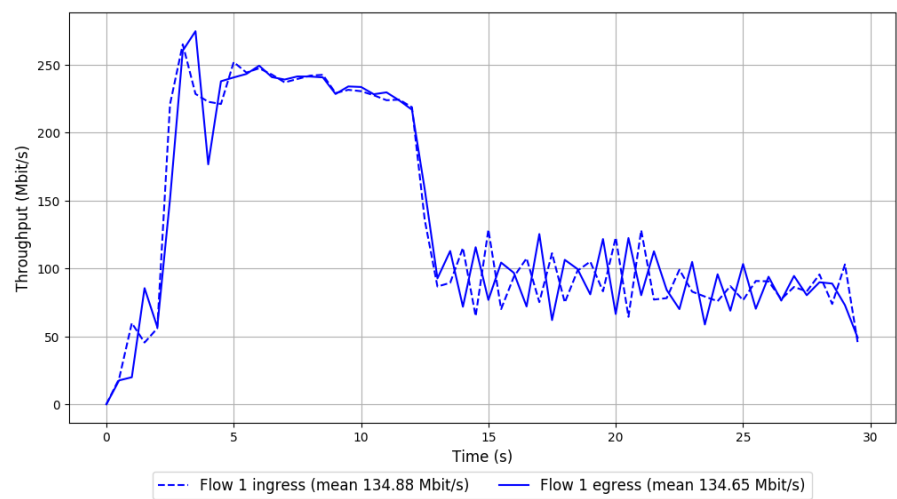
-- Flow 1:

Average throughput: 134.65 Mbit/s

95th percentile per-packet one-way delay: 138.004 ms

Loss rate: 0.45%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 16:12:55

End at: 2018-02-16 16:13:25

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.92 Mbit/s

95th percentile per-packet one-way delay: 137.128 ms

Loss rate: 1.11%

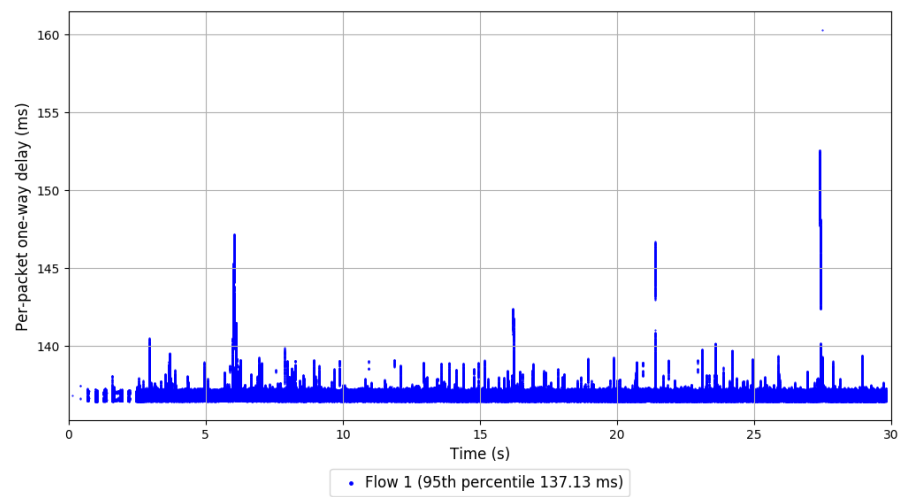
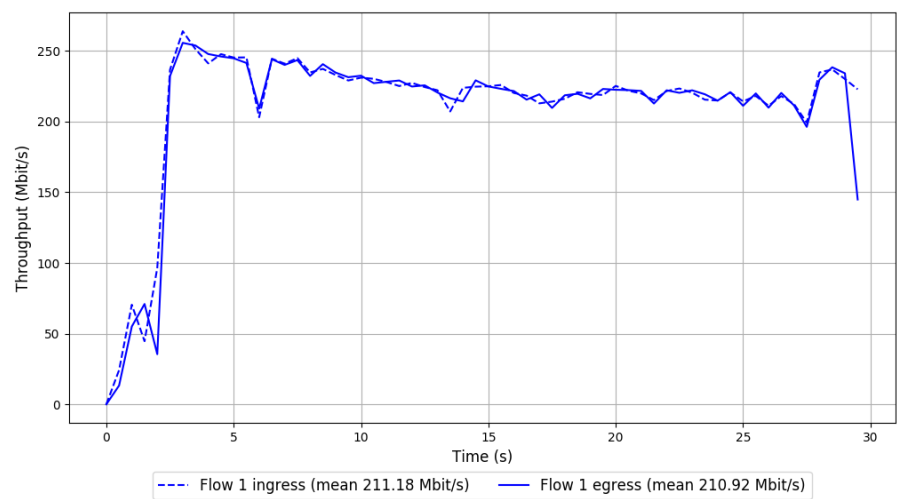
-- Flow 1:

Average throughput: 210.92 Mbit/s

95th percentile per-packet one-way delay: 137.128 ms

Loss rate: 1.11%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-16 16:29:20

End at: 2018-02-16 16:29:50

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.478 ms

Loss rate: 0.93%

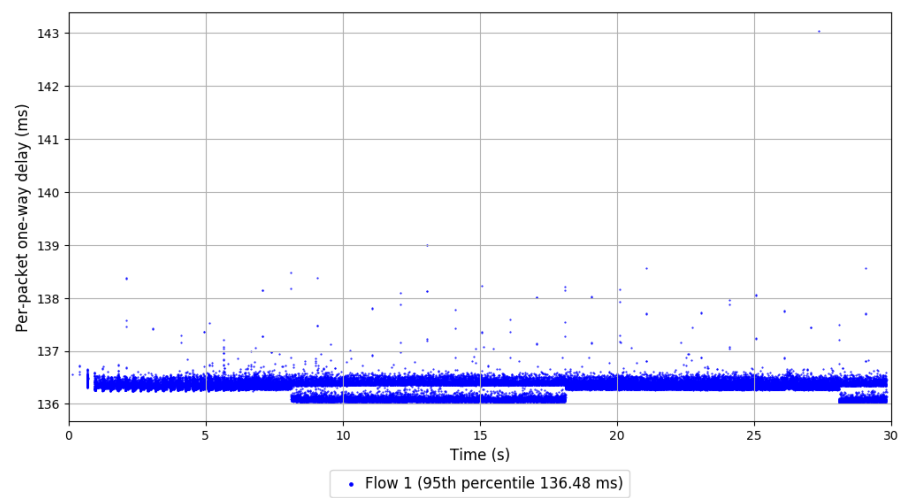
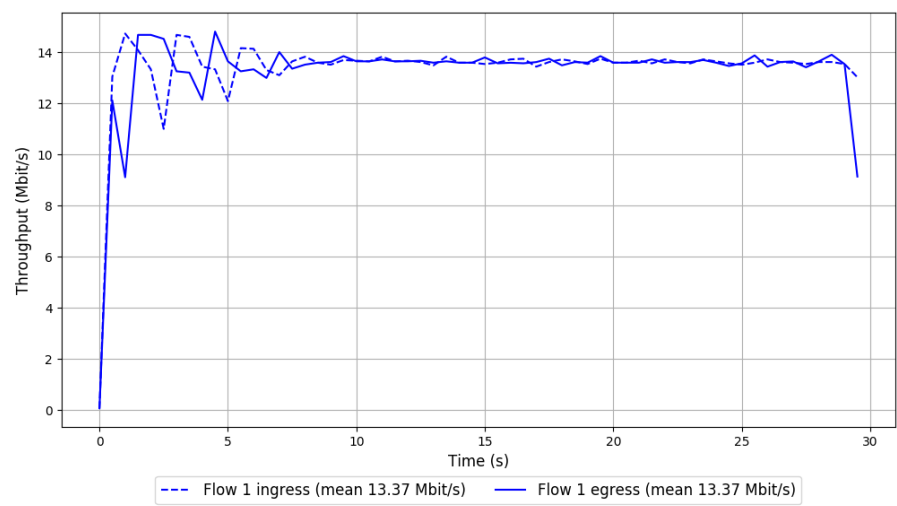
-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.478 ms

Loss rate: 0.93%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 16:45:20

End at: 2018-02-16 16:45:50

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.56 Mbit/s

95th percentile per-packet one-way delay: 136.328 ms

Loss rate: 0.34%

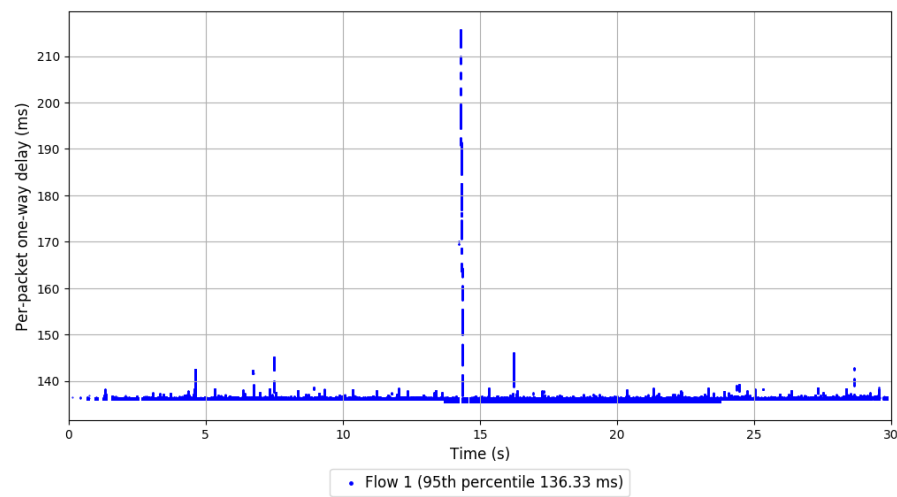
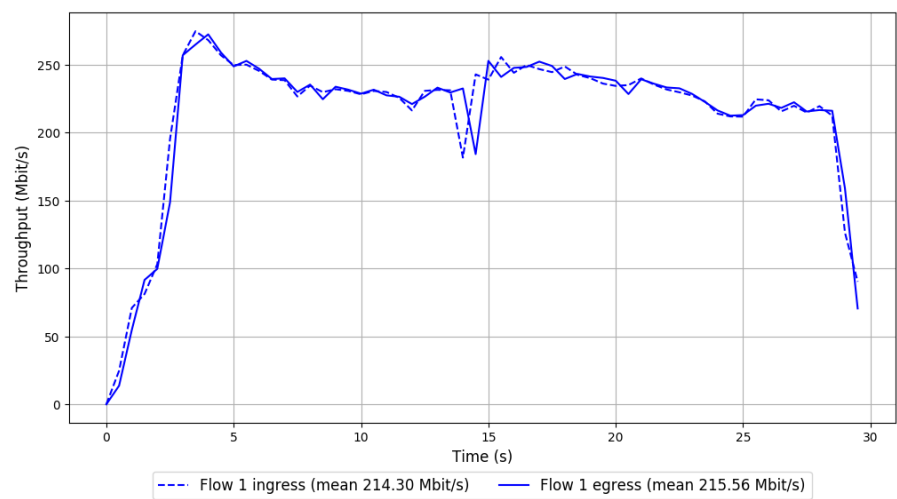
-- Flow 1:

Average throughput: 215.56 Mbit/s

95th percentile per-packet one-way delay: 136.328 ms

Loss rate: 0.34%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 17:01:43

End at: 2018-02-16 17:02:13

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 136.514 ms

Loss rate: 0.94%

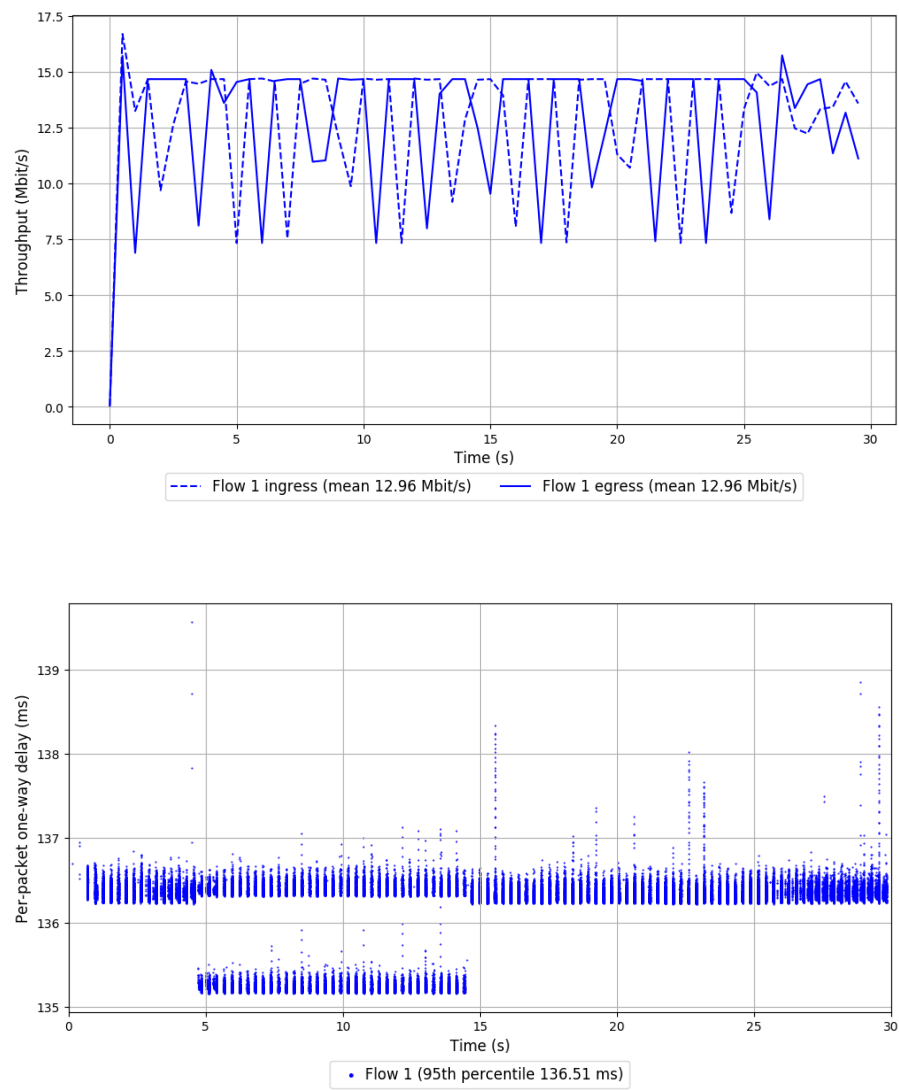
-- Flow 1:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 136.514 ms

Loss rate: 0.94%

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

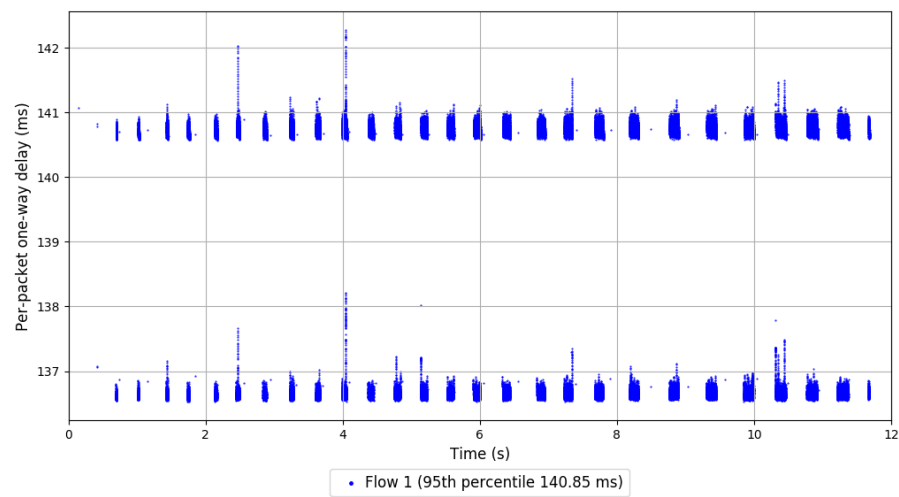
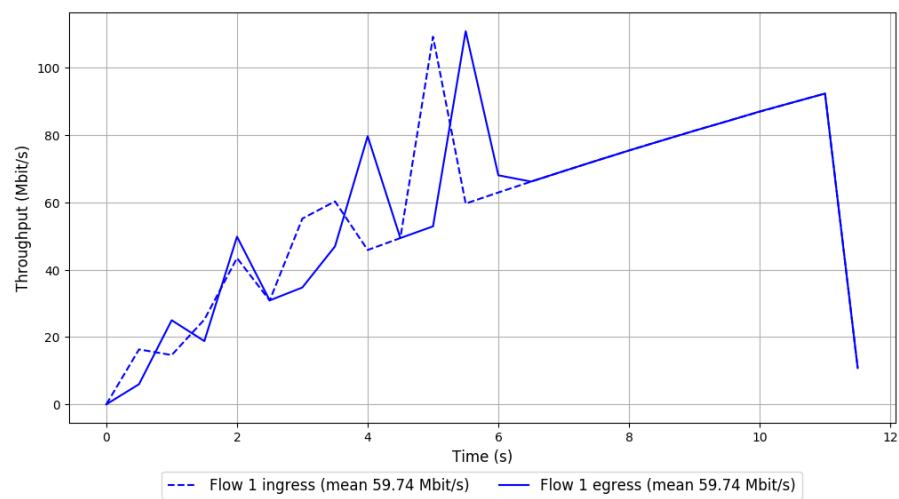


Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 17:17:46

End at: 2018-02-16 17:18:16

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 14:44:06

End at: 2018-02-16 14:44:36

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.37 Mbit/s

95th percentile per-packet one-way delay: 138.734 ms

Loss rate: 1.02%

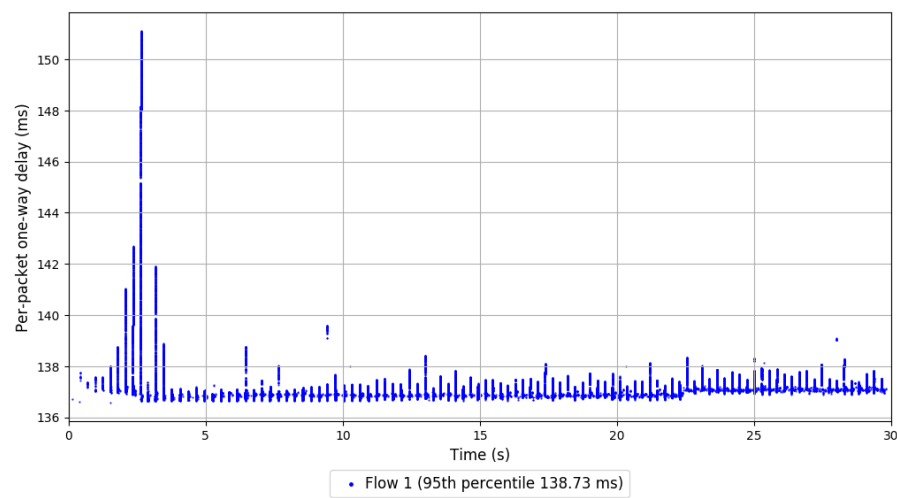
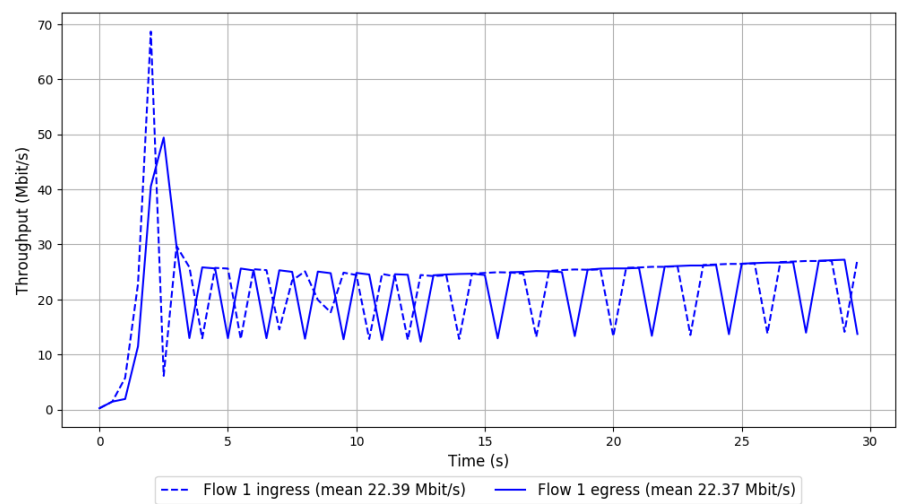
-- Flow 1:

Average throughput: 22.37 Mbit/s

95th percentile per-packet one-way delay: 138.734 ms

Loss rate: 1.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 15:00:22

End at: 2018-02-16 15:00:52

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 141.750 ms

Loss rate: 0.76%

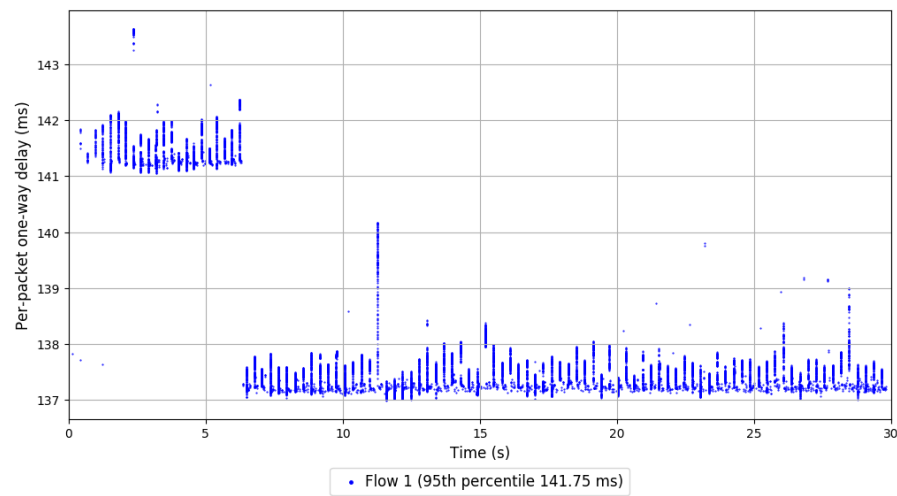
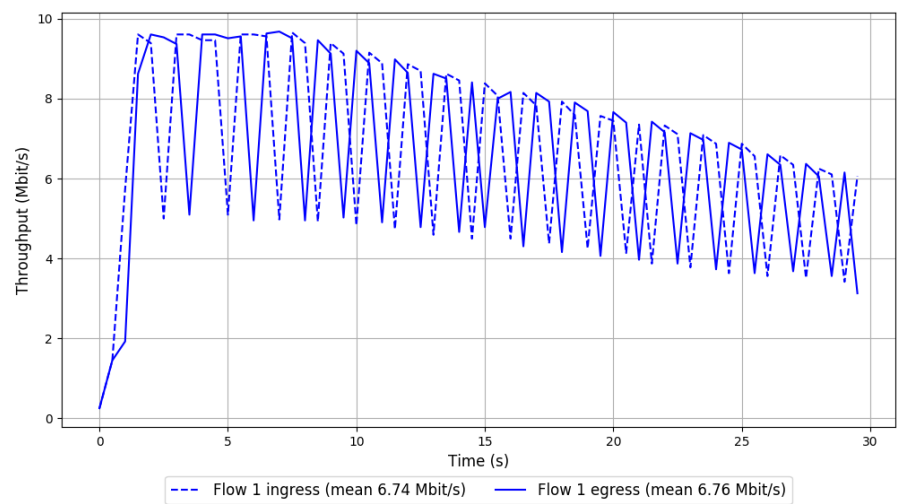
-- Flow 1:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 141.750 ms

Loss rate: 0.76%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 15:16:45

End at: 2018-02-16 15:17:15

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 147.193 ms

Loss rate: 0.08%

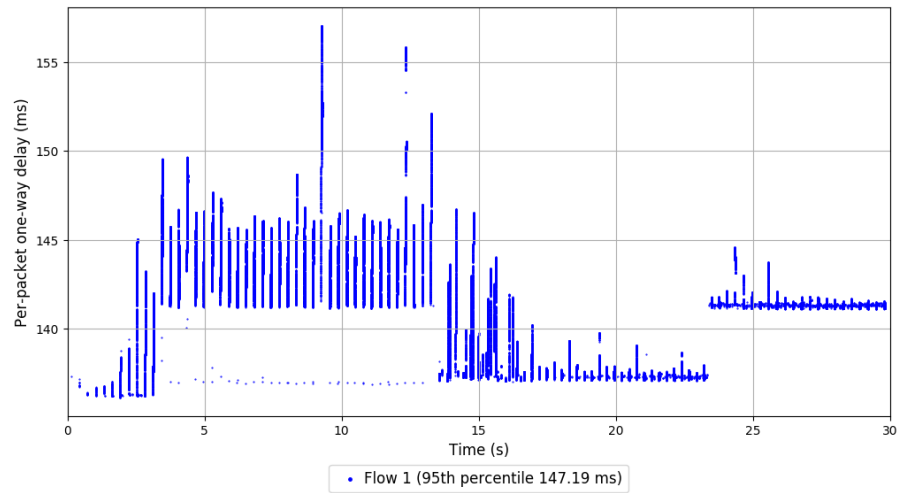
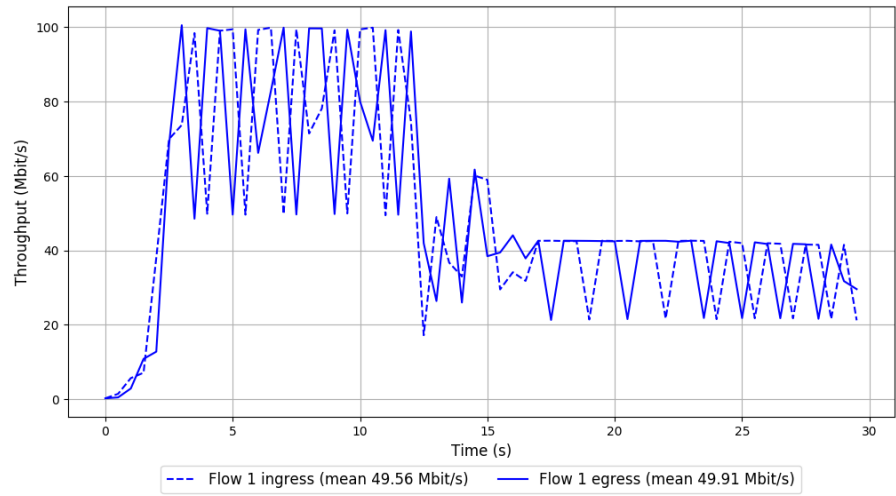
-- Flow 1:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 147.193 ms

Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 15:32:45

End at: 2018-02-16 15:33:15

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 139.116 ms

Loss rate: 1.08%

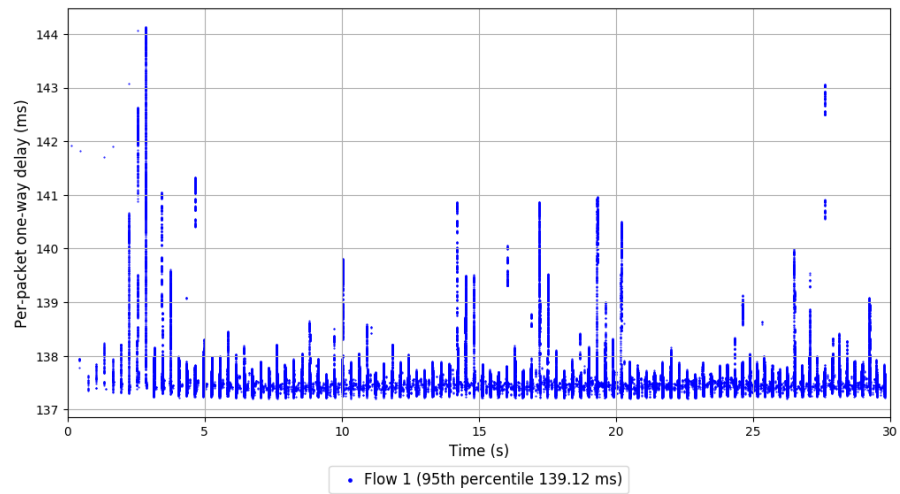
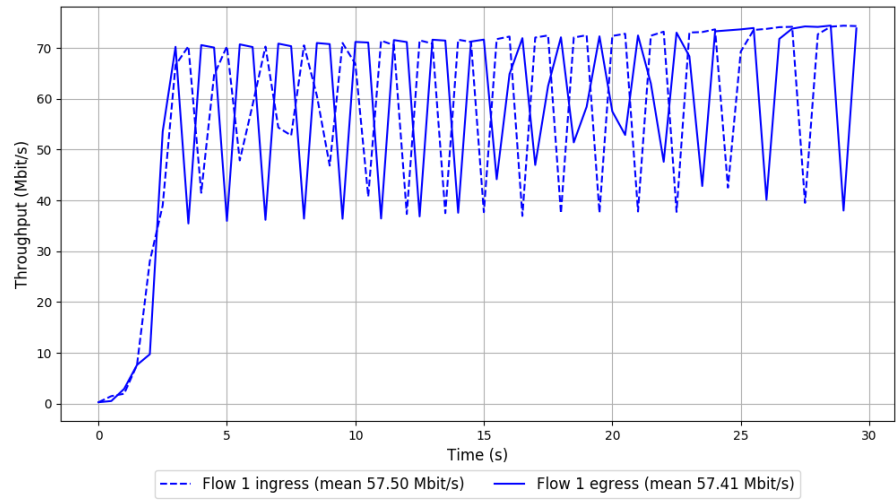
-- Flow 1:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 139.116 ms

Loss rate: 1.08%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 15:49:03

End at: 2018-02-16 15:49:33

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: 140.552 ms

Loss rate: 1.06%

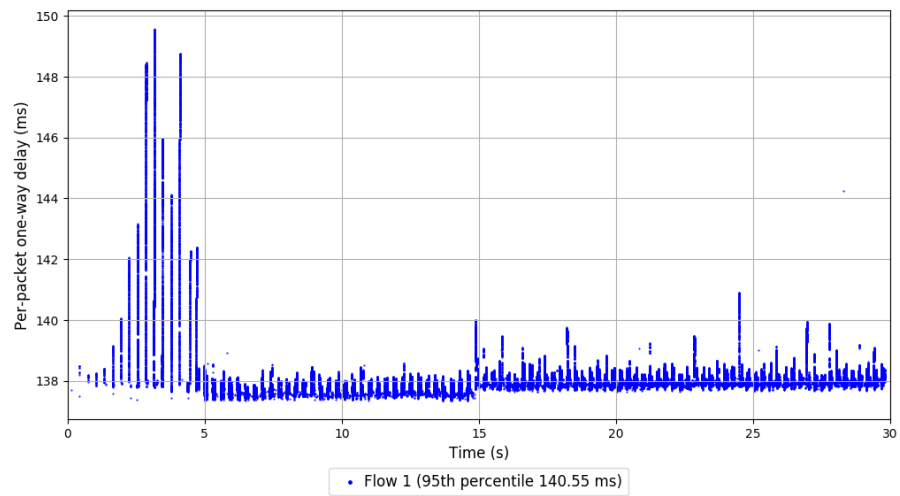
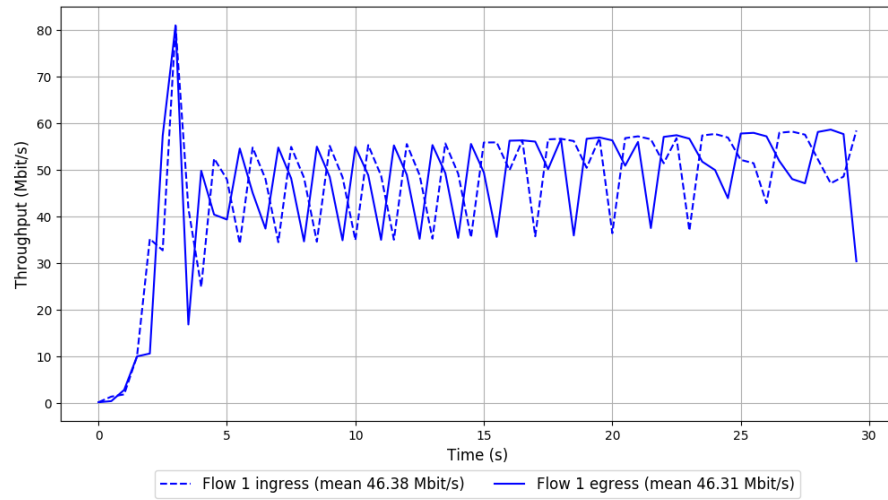
-- Flow 1:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: 140.552 ms

Loss rate: 1.06%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-16 16:05:28

End at: 2018-02-16 16:05:58

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 170.229 ms

Loss rate: 0.46%

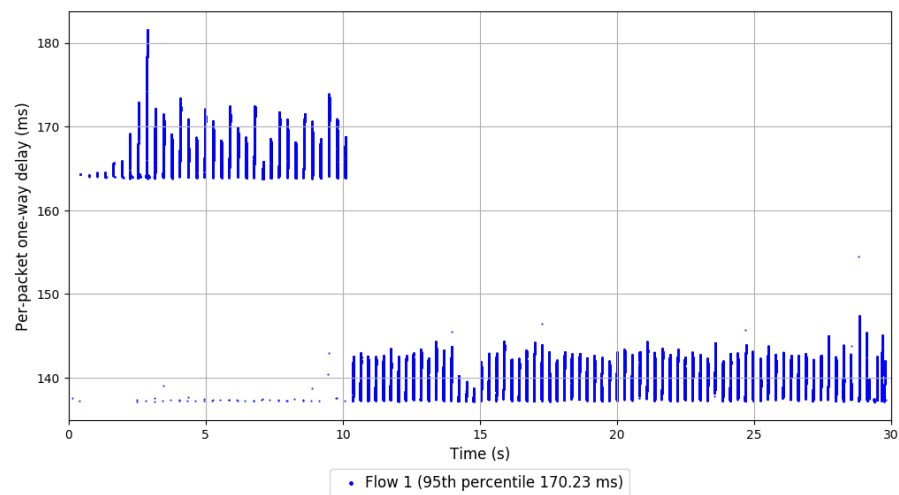
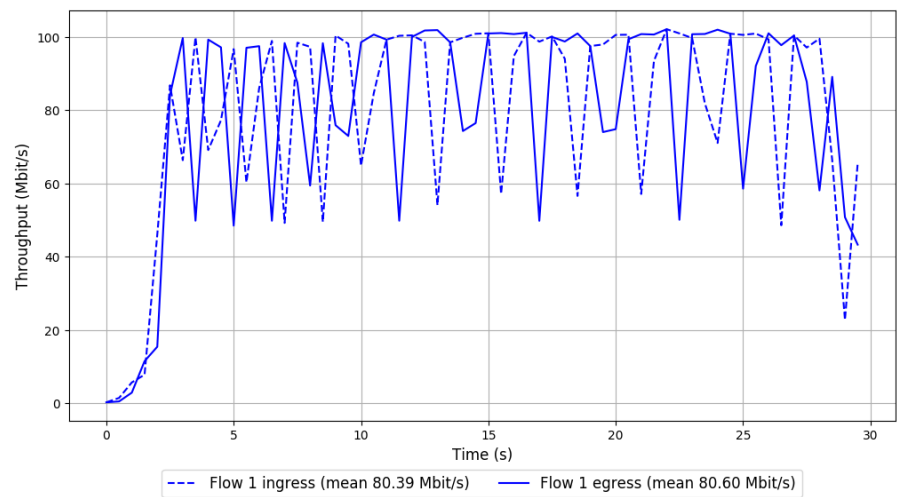
-- Flow 1:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 170.229 ms

Loss rate: 0.46%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-16 16:22:00

End at: 2018-02-16 16:22:30

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.30 Mbit/s

95th percentile per-packet one-way delay: 137.579 ms

Loss rate: 1.01%

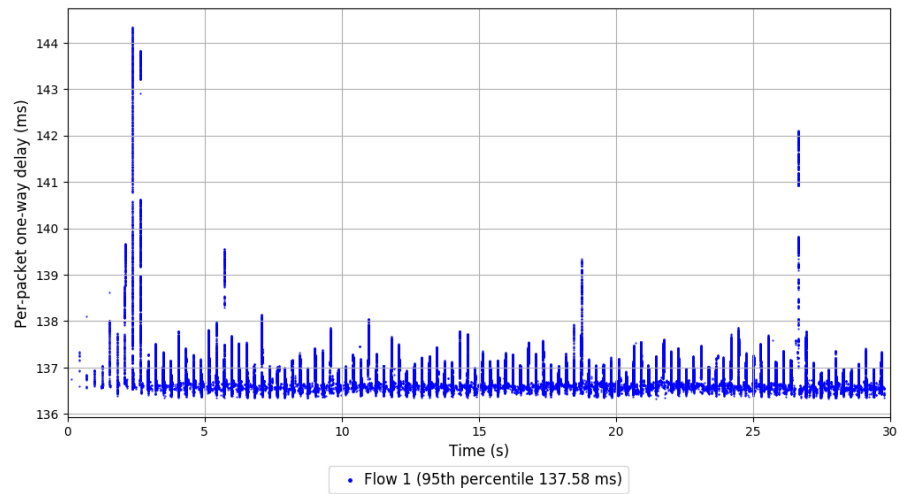
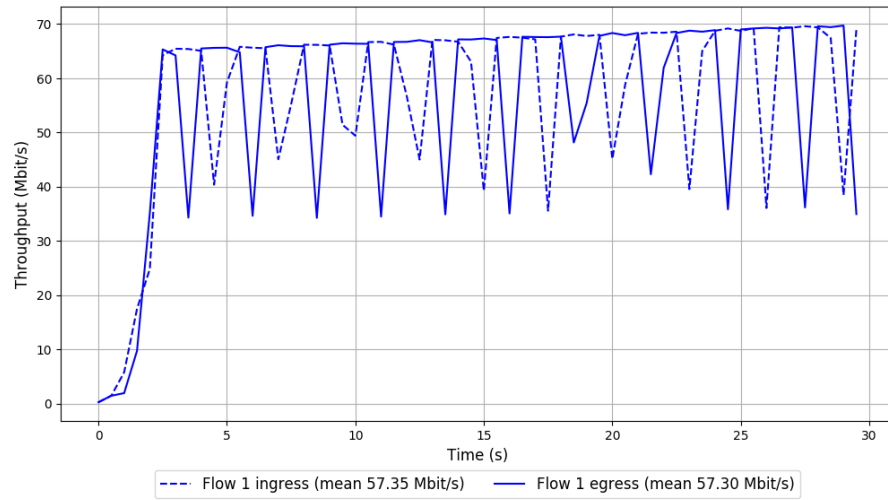
-- Flow 1:

Average throughput: 57.30 Mbit/s

95th percentile per-packet one-way delay: 137.579 ms

Loss rate: 1.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 16:38:03

End at: 2018-02-16 16:38:33

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 139.437 ms

Loss rate: 1.00%

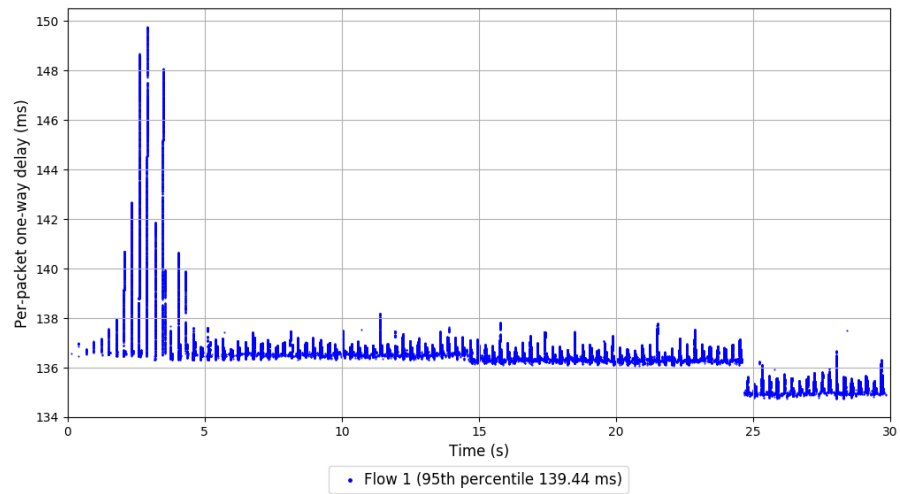
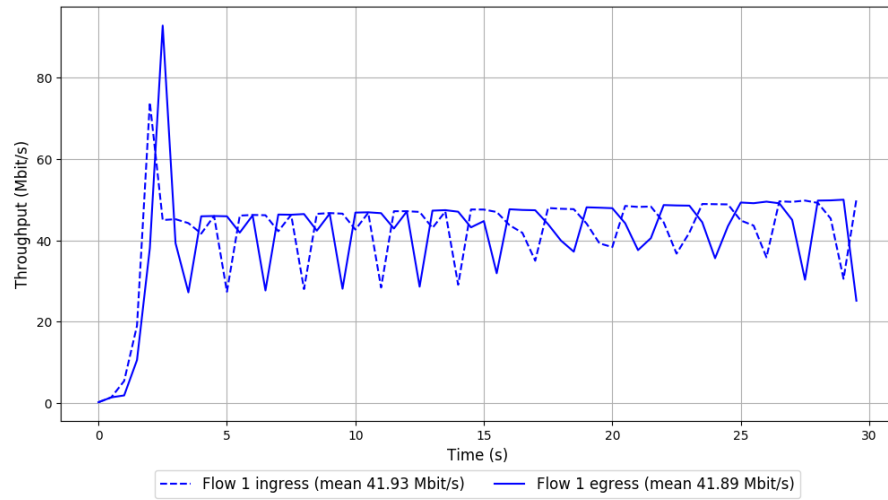
-- Flow 1:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 139.437 ms

Loss rate: 1.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 16:54:19

End at: 2018-02-16 16:54:49

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 141.681 ms

Loss rate: 0.49%

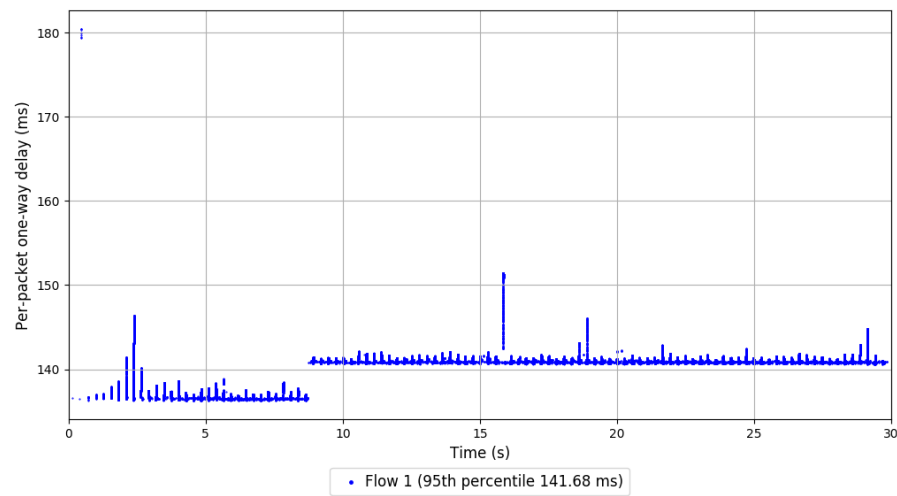
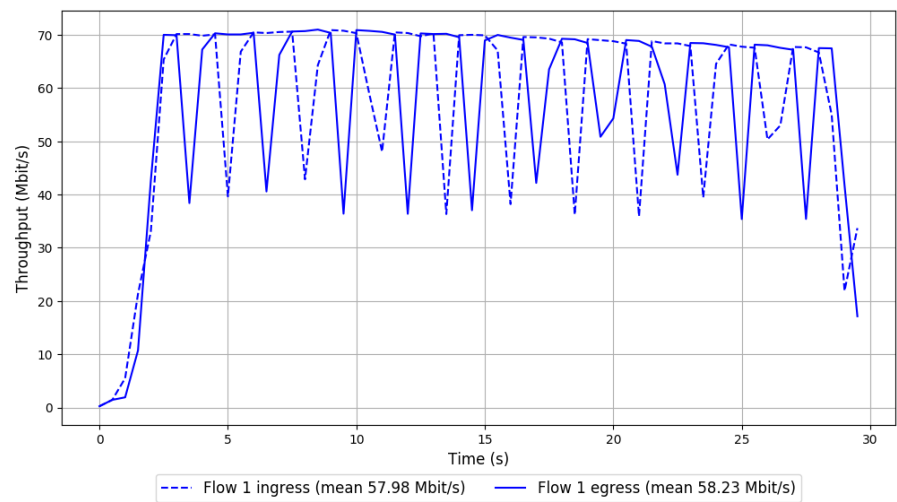
-- Flow 1:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 141.681 ms

Loss rate: 0.49%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 17:10:23

End at: 2018-02-16 17:10:53

Below is generated by plot.py at 2018-02-16 20:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.08 Mbit/s

95th percentile per-packet one-way delay: 137.794 ms

Loss rate: 0.94%

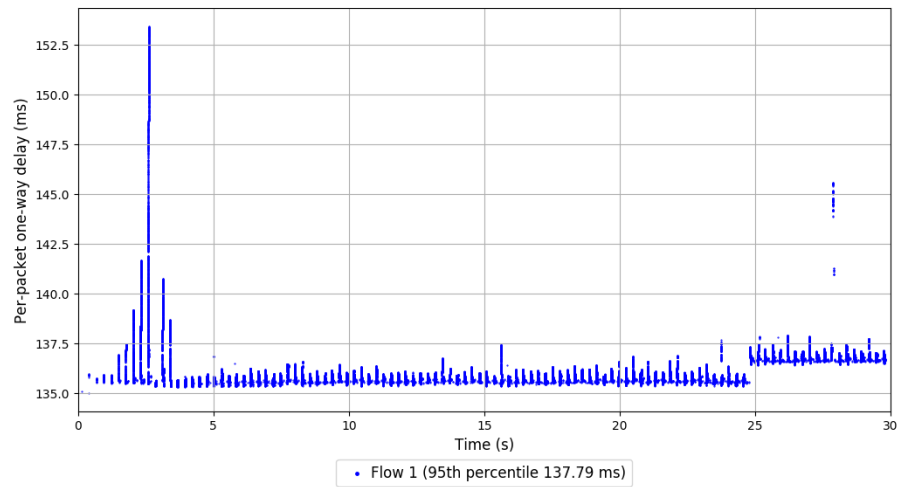
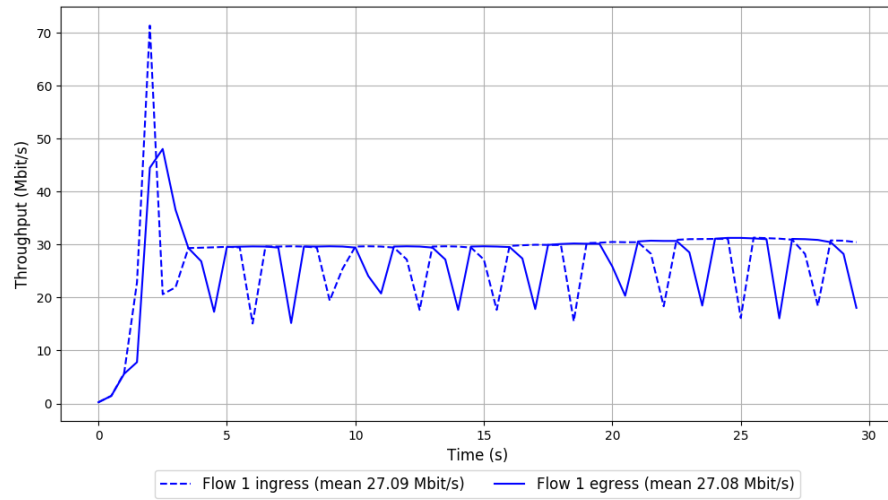
-- Flow 1:

Average throughput: 27.08 Mbit/s

95th percentile per-packet one-way delay: 137.794 ms

Loss rate: 0.94%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-16 14:53:24

End at: 2018-02-16 14:53:54

Below is generated by plot.py at 2018-02-16 20:32:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.74 Mbit/s

95th percentile per-packet one-way delay: 169.557 ms

Loss rate: 1.45%

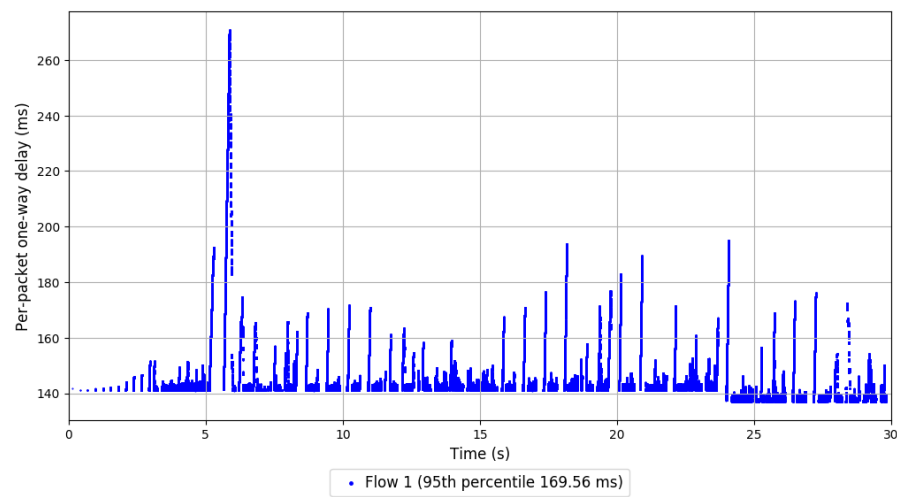
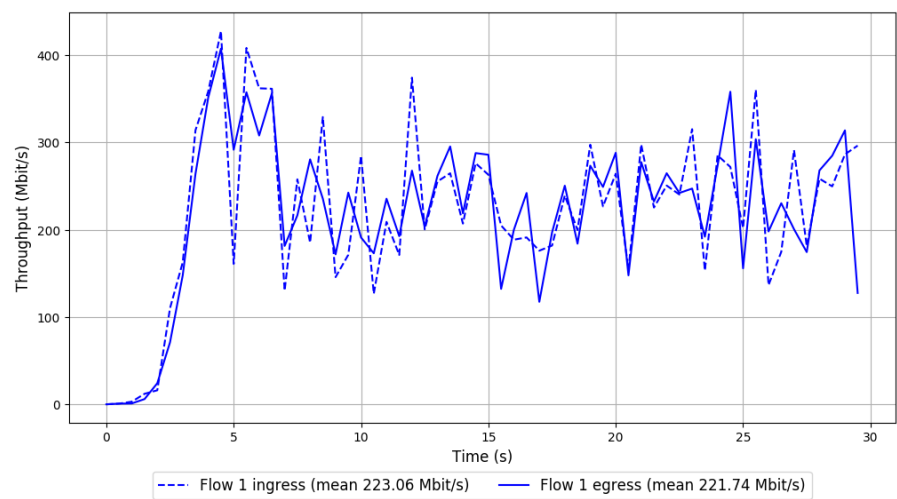
-- Flow 1:

Average throughput: 221.74 Mbit/s

95th percentile per-packet one-way delay: 169.557 ms

Loss rate: 1.45%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 15:09:48

End at: 2018-02-16 15:10:18

Below is generated by plot.py at 2018-02-16 20:32:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.08 Mbit/s

95th percentile per-packet one-way delay: 168.288 ms

Loss rate: 1.15%

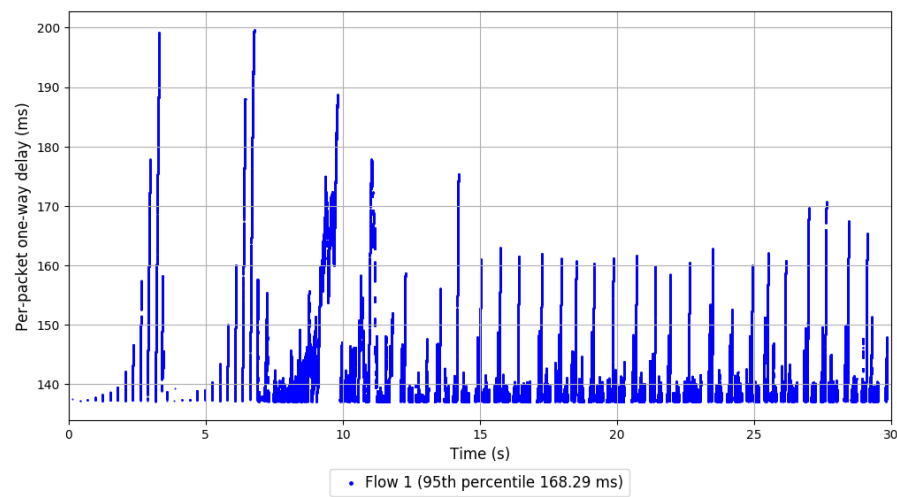
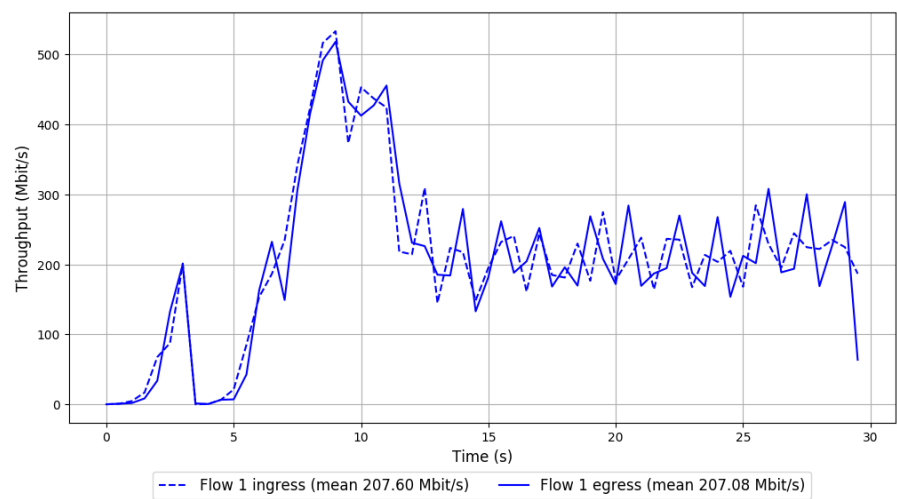
-- Flow 1:

Average throughput: 207.08 Mbit/s

95th percentile per-packet one-way delay: 168.288 ms

Loss rate: 1.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-16 15:25:46

End at: 2018-02-16 15:26:16

Below is generated by plot.py at 2018-02-16 20:32:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.80 Mbit/s

95th percentile per-packet one-way delay: 180.264 ms

Loss rate: 1.04%

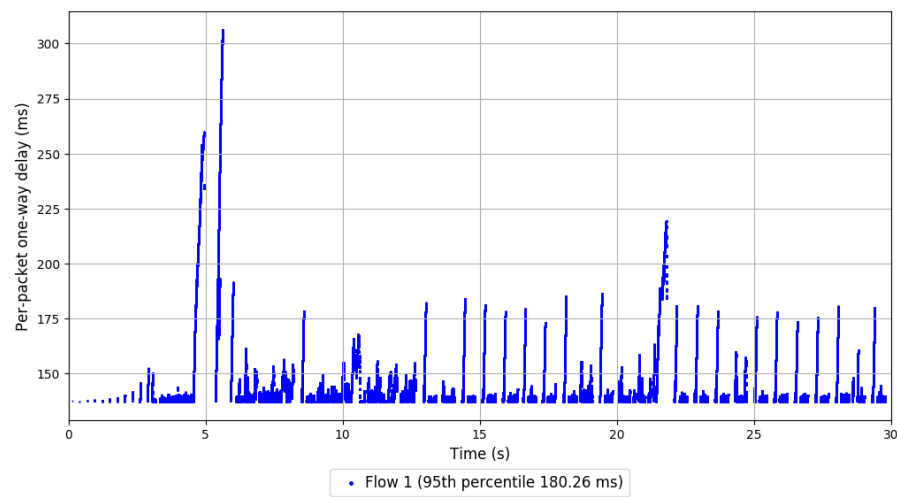
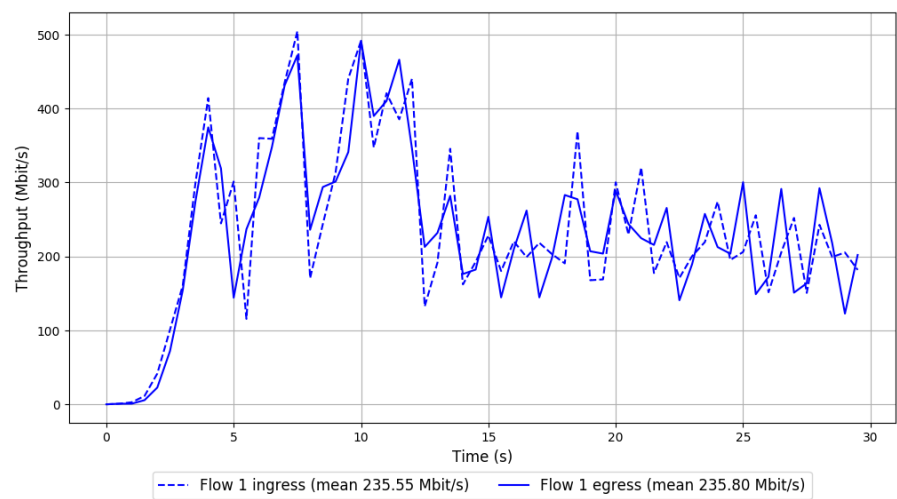
-- Flow 1:

Average throughput: 235.80 Mbit/s

95th percentile per-packet one-way delay: 180.264 ms

Loss rate: 1.04%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-16 15:42:06

End at: 2018-02-16 15:42:36

Below is generated by plot.py at 2018-02-16 20:32:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.21 Mbit/s

95th percentile per-packet one-way delay: 187.422 ms

Loss rate: 2.34%

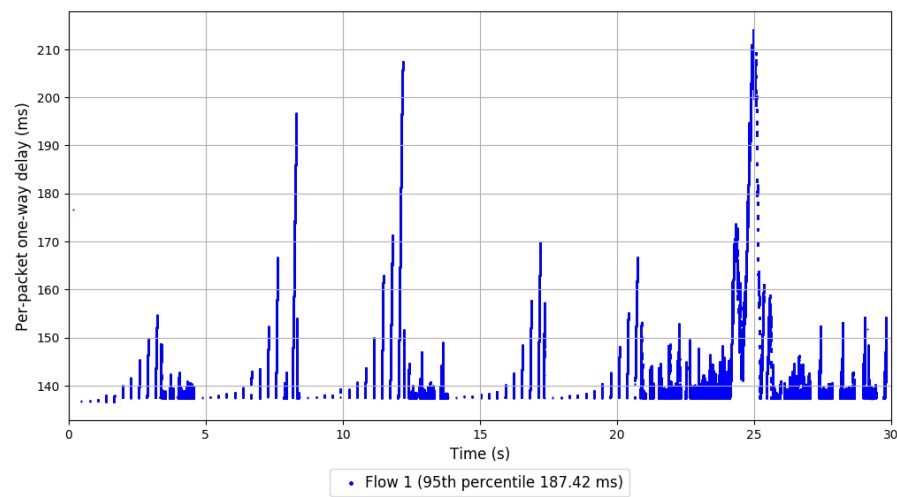
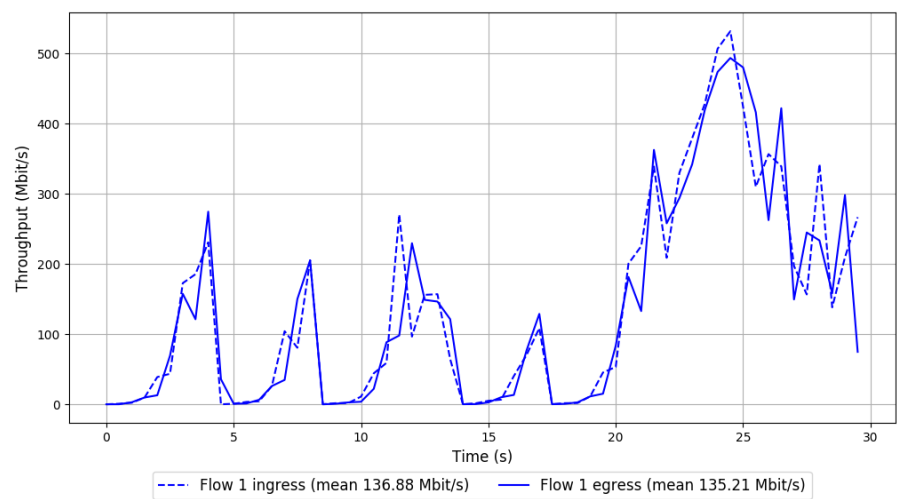
-- Flow 1:

Average throughput: 135.21 Mbit/s

95th percentile per-packet one-way delay: 187.422 ms

Loss rate: 2.34%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-16 15:58:33

End at: 2018-02-16 15:59:03

Below is generated by plot.py at 2018-02-16 20:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.87 Mbit/s

95th percentile per-packet one-way delay: 157.456 ms

Loss rate: 2.15%

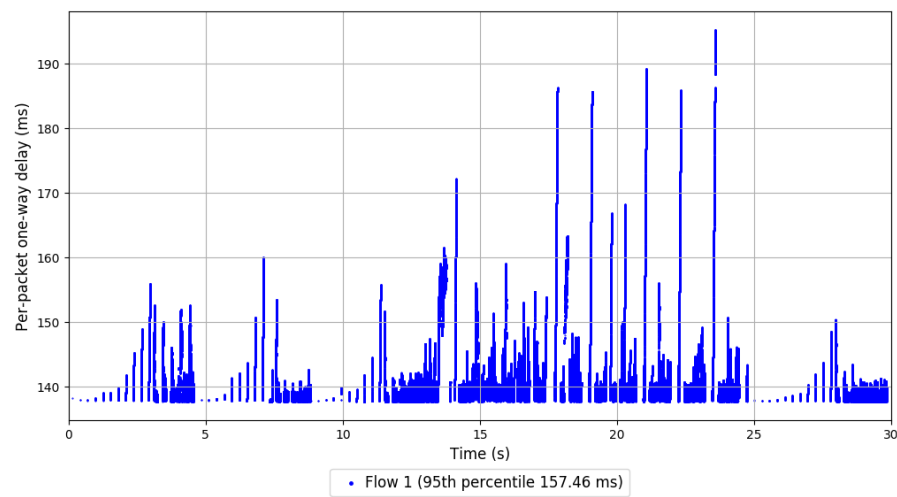
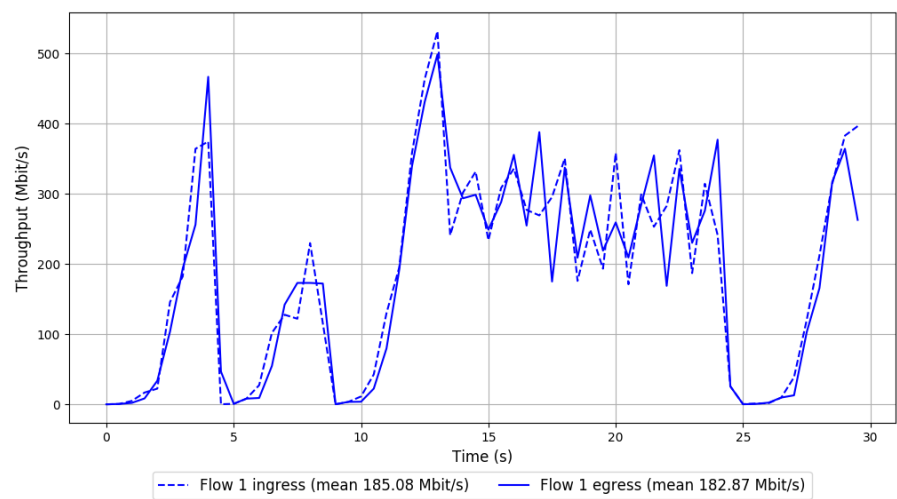
-- Flow 1:

Average throughput: 182.87 Mbit/s

95th percentile per-packet one-way delay: 157.456 ms

Loss rate: 2.15%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-16 16:15:10

End at: 2018-02-16 16:15:40

Below is generated by plot.py at 2018-02-16 20:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.72 Mbit/s

95th percentile per-packet one-way delay: 220.776 ms

Loss rate: 3.05%

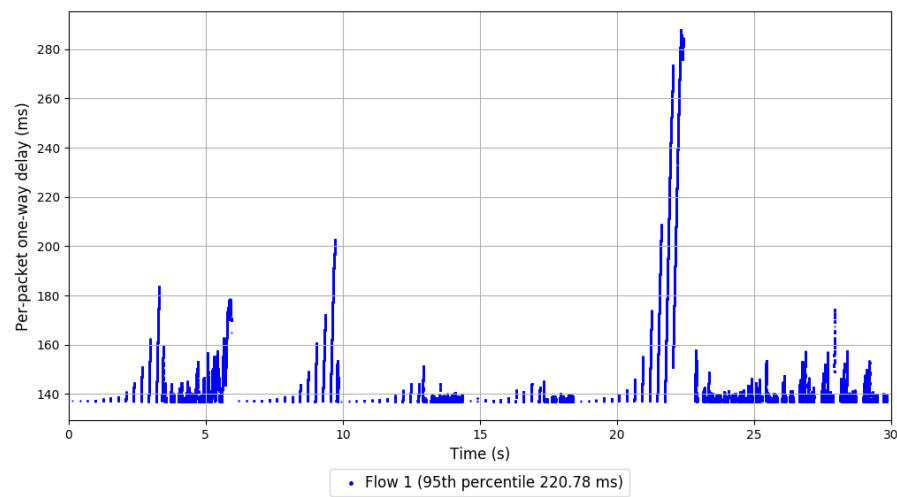
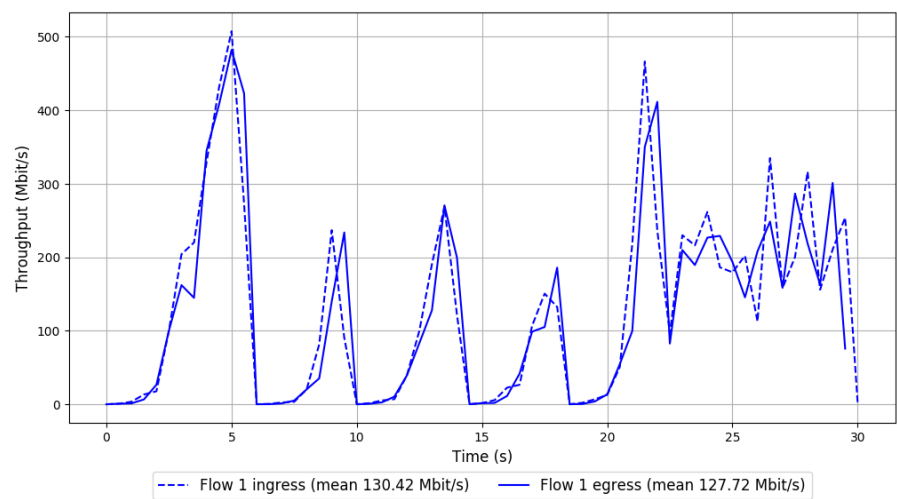
-- Flow 1:

Average throughput: 127.72 Mbit/s

95th percentile per-packet one-way delay: 220.776 ms

Loss rate: 3.05%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-16 16:31:15

End at: 2018-02-16 16:31:45

Below is generated by plot.py at 2018-02-16 20:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.44 Mbit/s

95th percentile per-packet one-way delay: 163.811 ms

Loss rate: 0.06%

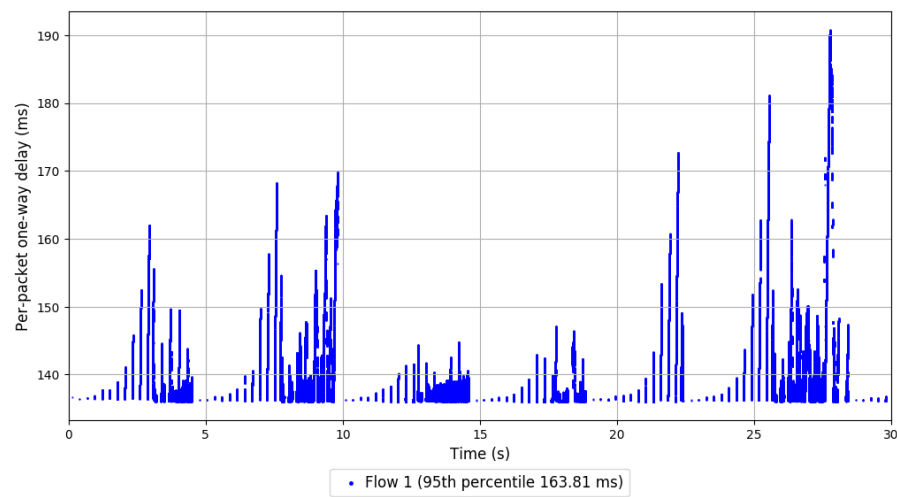
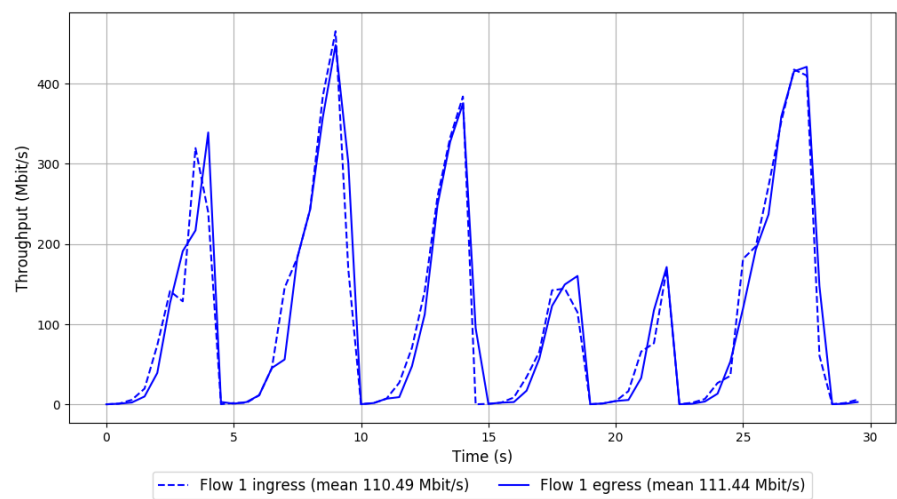
-- Flow 1:

Average throughput: 111.44 Mbit/s

95th percentile per-packet one-way delay: 163.811 ms

Loss rate: 0.06%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 16:47:33

End at: 2018-02-16 16:48:03

Below is generated by plot.py at 2018-02-16 20:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.79 Mbit/s

95th percentile per-packet one-way delay: 176.966 ms

Loss rate: 1.50%

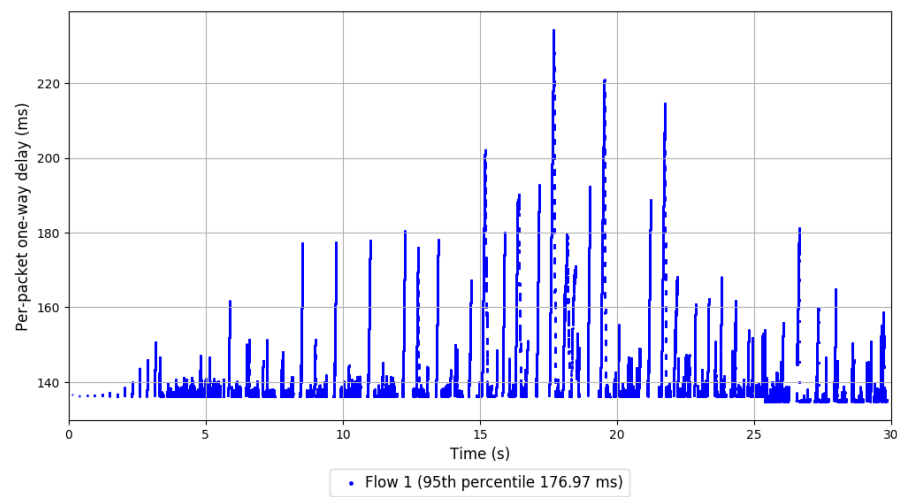
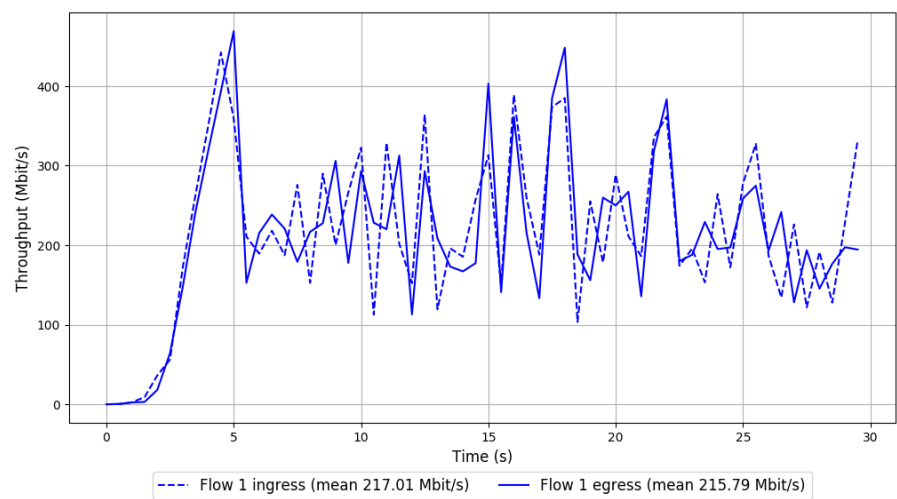
-- Flow 1:

Average throughput: 215.79 Mbit/s

95th percentile per-packet one-way delay: 176.966 ms

Loss rate: 1.50%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 17:03:39

End at: 2018-02-16 17:04:09

Below is generated by plot.py at 2018-02-16 20:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.71 Mbit/s

95th percentile per-packet one-way delay: 209.992 ms

Loss rate: 0.54%

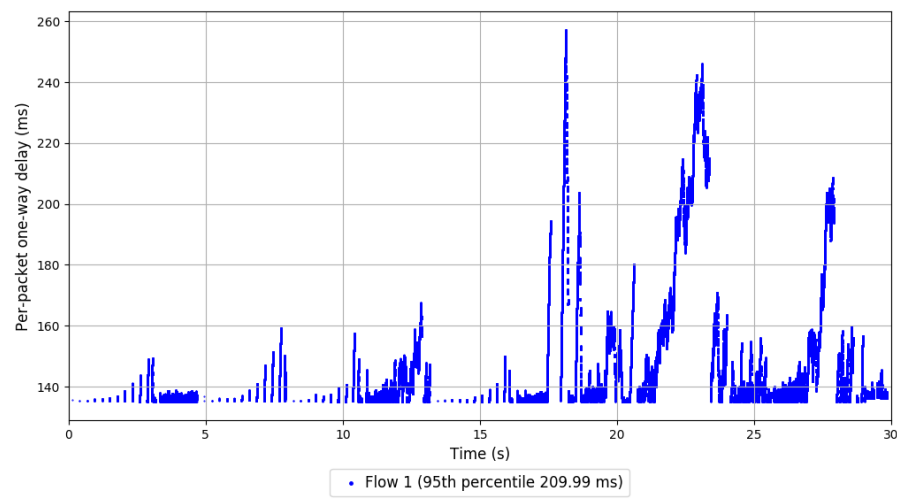
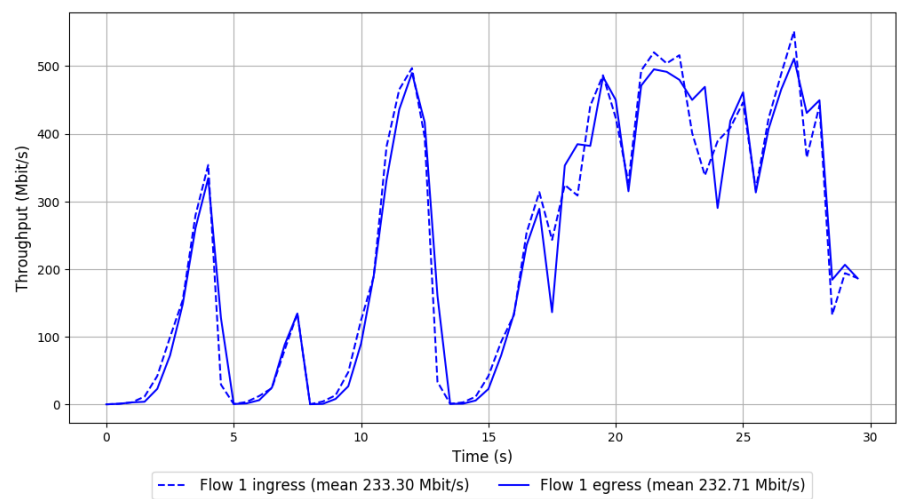
-- Flow 1:

Average throughput: 232.71 Mbit/s

95th percentile per-packet one-way delay: 209.992 ms

Loss rate: 0.54%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 17:19:38

End at: 2018-02-16 17:20:08

Below is generated by plot.py at 2018-02-16 20:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.27 Mbit/s

95th percentile per-packet one-way delay: 170.598 ms

Loss rate: 1.62%

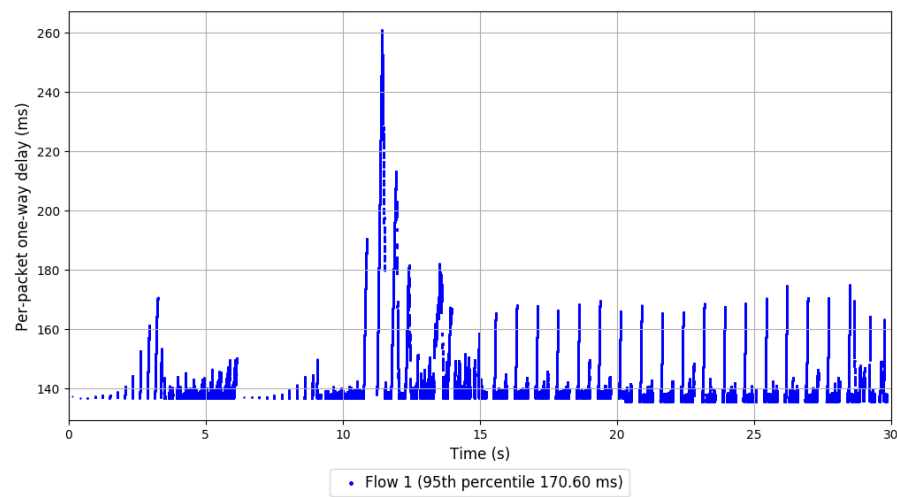
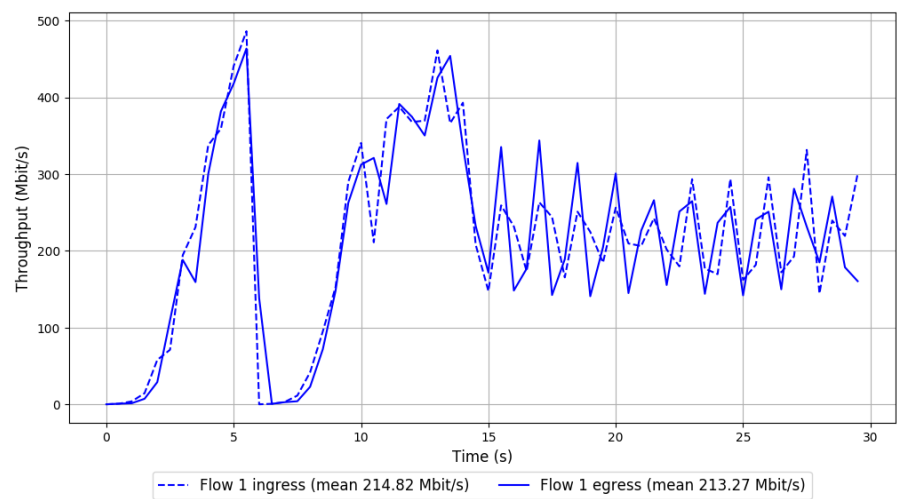
-- Flow 1:

Average throughput: 213.27 Mbit/s

95th percentile per-packet one-way delay: 170.598 ms

Loss rate: 1.62%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-16 14:46:31

End at: 2018-02-16 14:47:02

Below is generated by plot.py at 2018-02-16 20:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.48 Mbit/s

95th percentile per-packet one-way delay: 137.544 ms

Loss rate: 0.98%

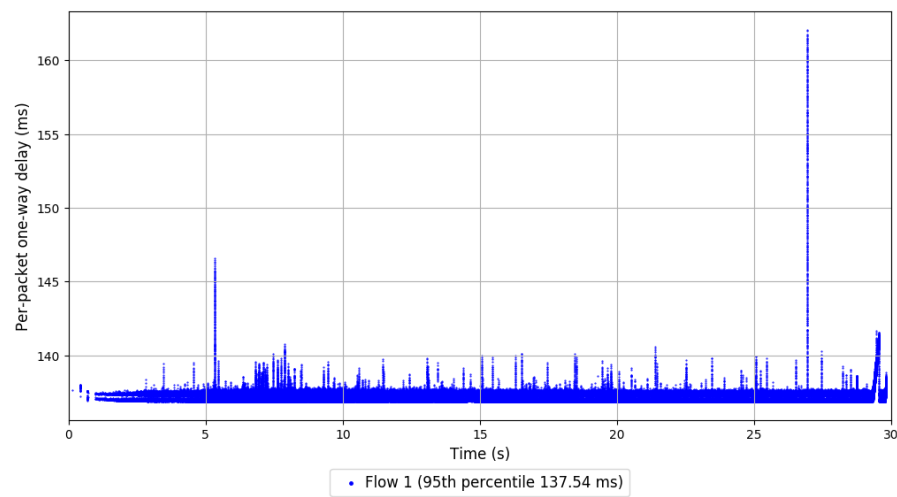
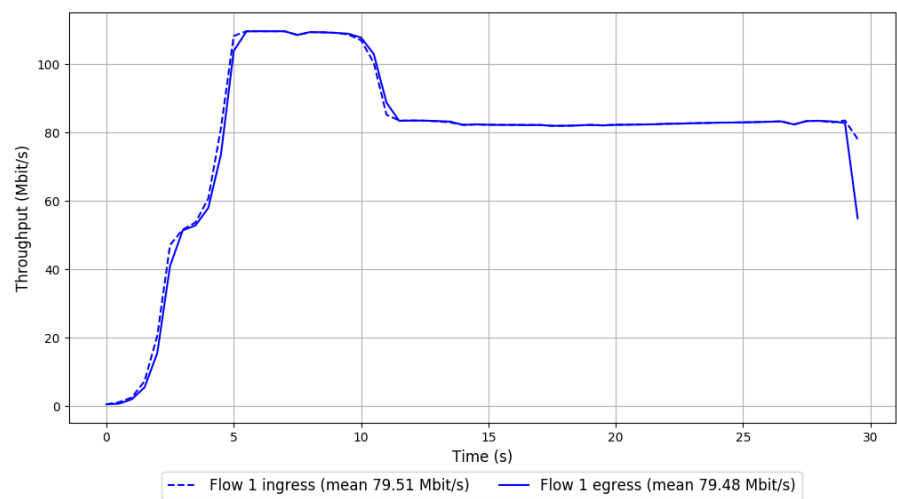
-- Flow 1:

Average throughput: 79.48 Mbit/s

95th percentile per-packet one-way delay: 137.544 ms

Loss rate: 0.98%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-16 15:02:47

End at: 2018-02-16 15:03:17

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.72 Mbit/s

95th percentile per-packet one-way delay: 312.275 ms

Loss rate: 36.92%

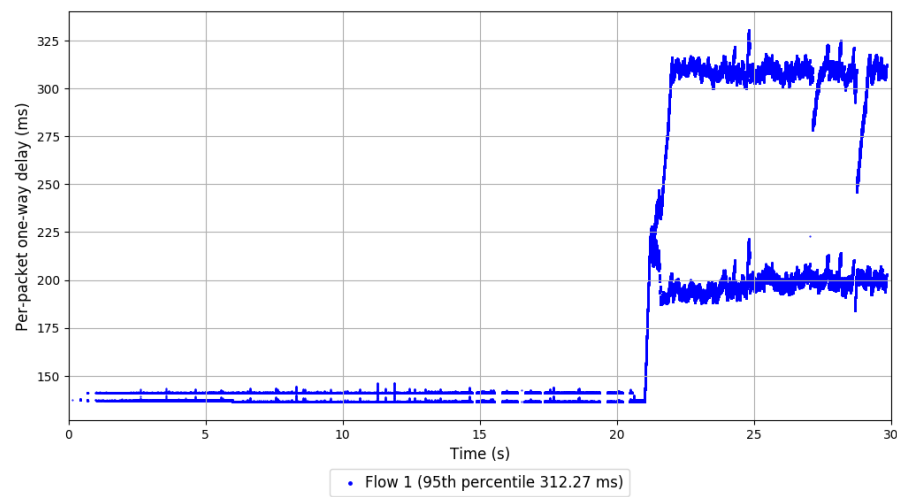
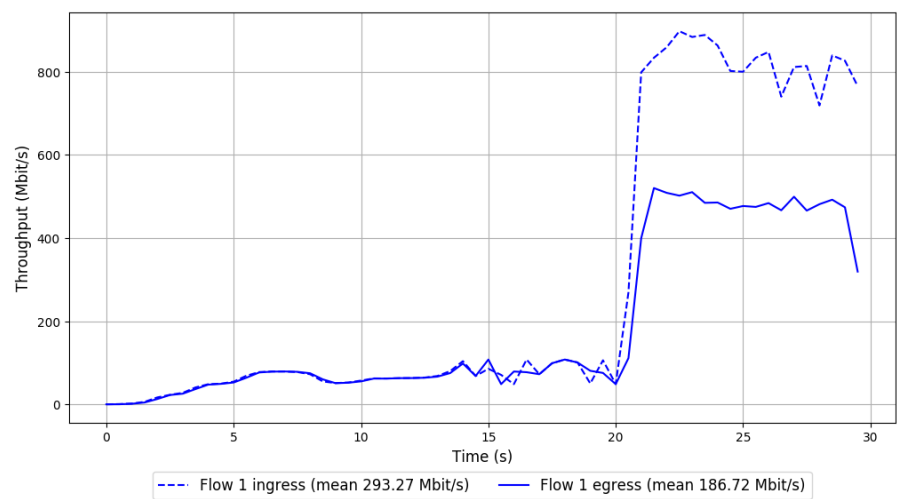
-- Flow 1:

Average throughput: 186.72 Mbit/s

95th percentile per-packet one-way delay: 312.275 ms

Loss rate: 36.92%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-16 15:19:11

End at: 2018-02-16 15:19:41

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 141.259 ms

Loss rate: 0.89%

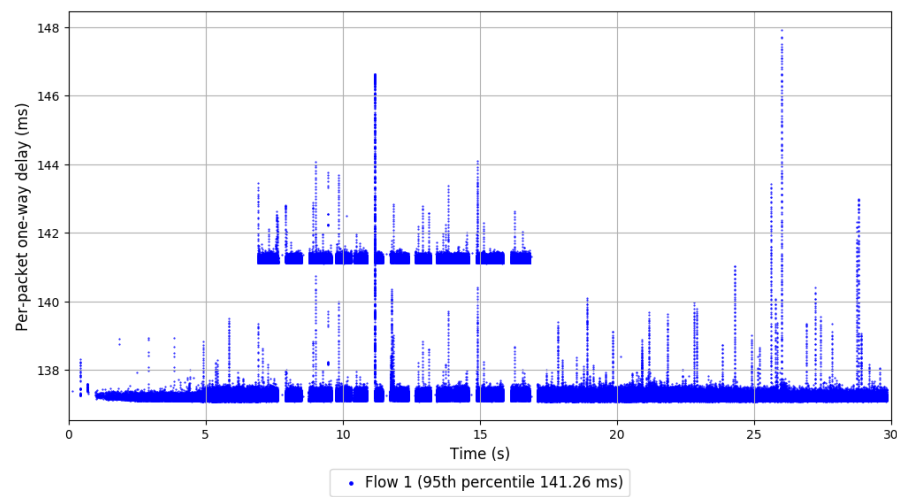
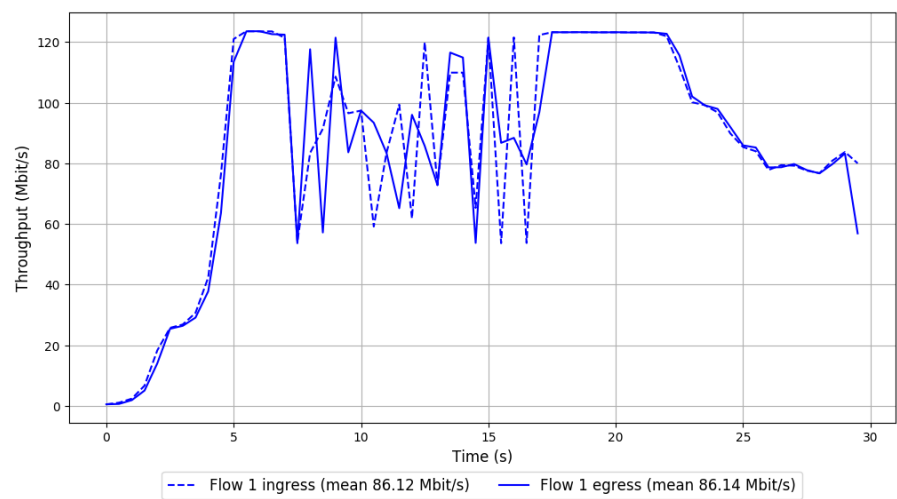
-- Flow 1:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 141.259 ms

Loss rate: 0.89%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-16 15:35:14

End at: 2018-02-16 15:35:44

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.12 Mbit/s

95th percentile per-packet one-way delay: 137.409 ms

Loss rate: 1.19%

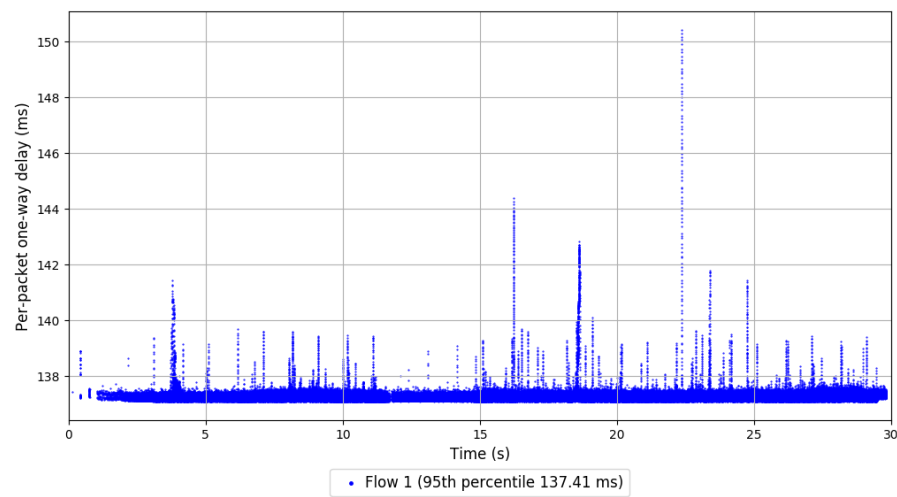
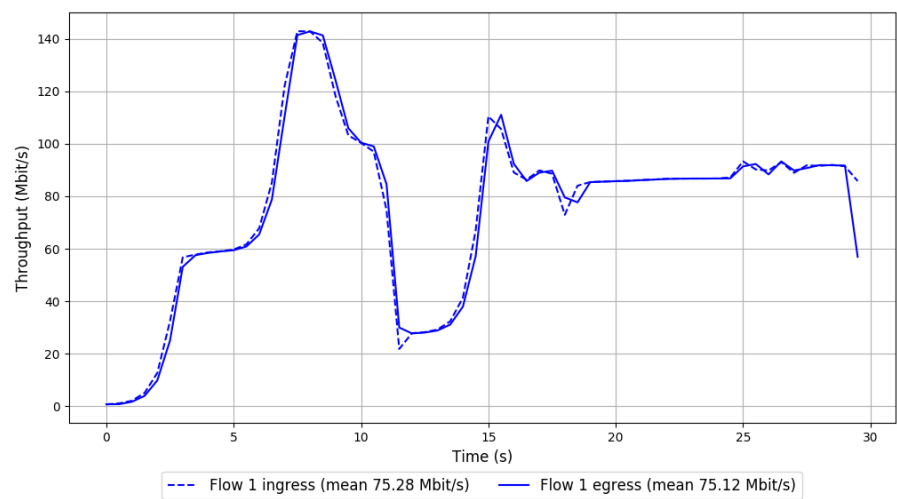
-- Flow 1:

Average throughput: 75.12 Mbit/s

95th percentile per-packet one-way delay: 137.409 ms

Loss rate: 1.19%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-16 15:51:31

End at: 2018-02-16 15:52:01

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 137.999 ms

Loss rate: 0.54%

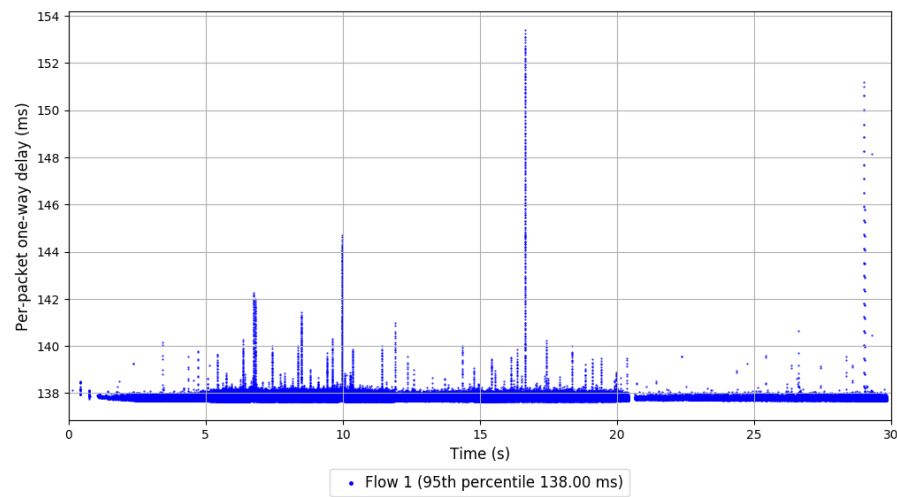
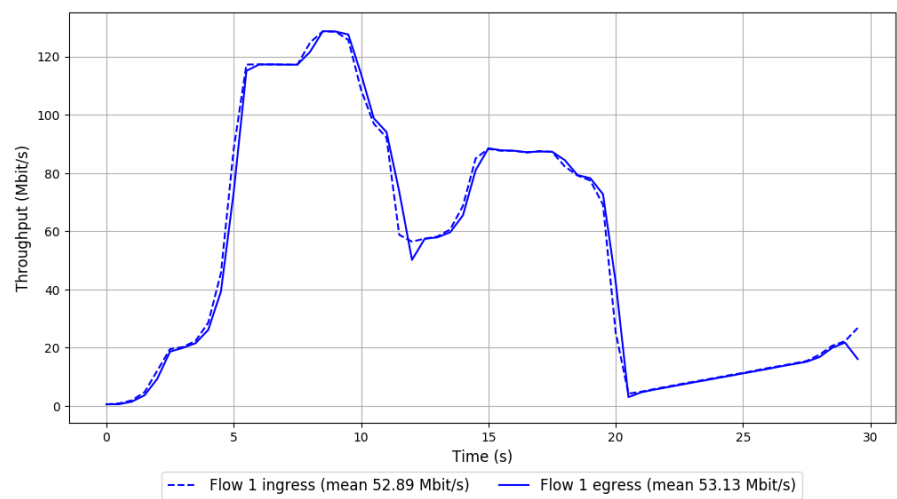
-- Flow 1:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 137.999 ms

Loss rate: 0.54%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-16 16:07:56

End at: 2018-02-16 16:08:26

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 137.256 ms

Loss rate: 0.96%

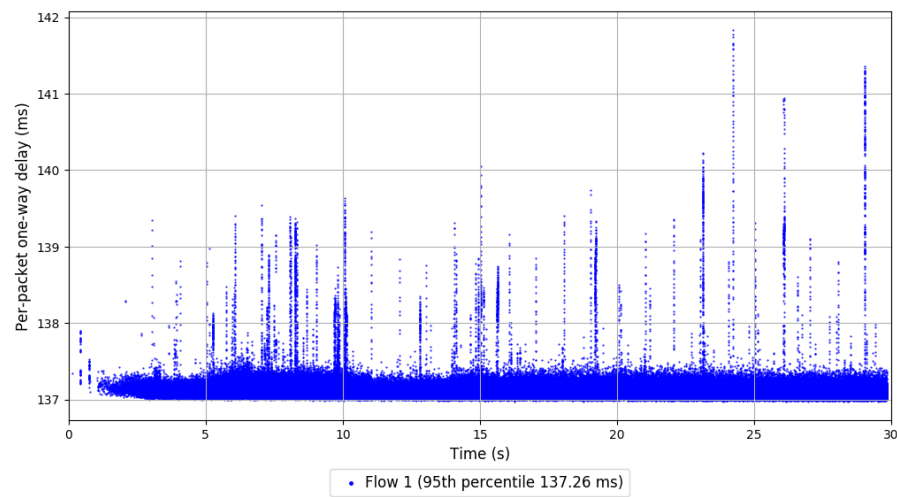
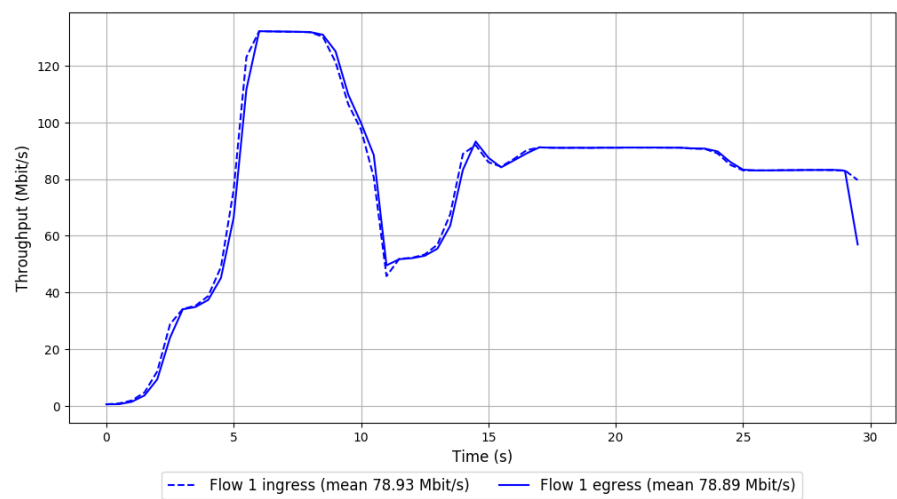
-- Flow 1:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 137.256 ms

Loss rate: 0.96%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-16 16:24:27

End at: 2018-02-16 16:24:57

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.98 Mbit/s

95th percentile per-packet one-way delay: 136.303 ms

Loss rate: 1.12%

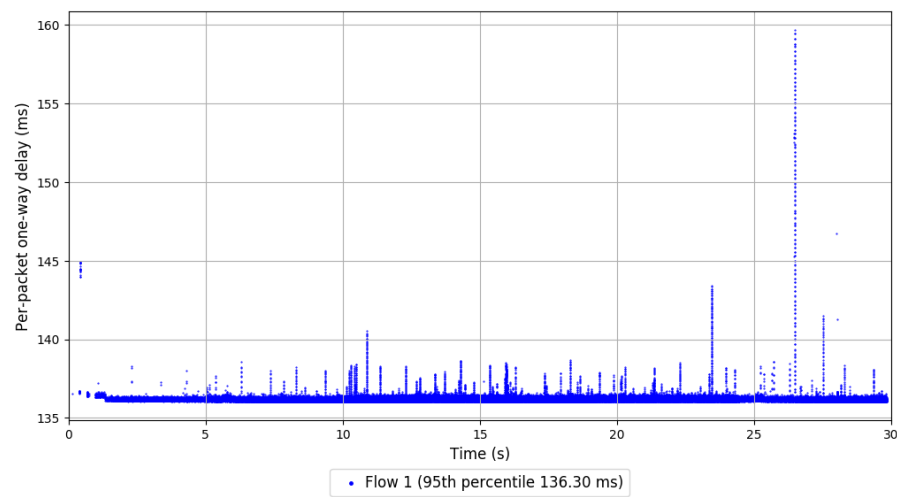
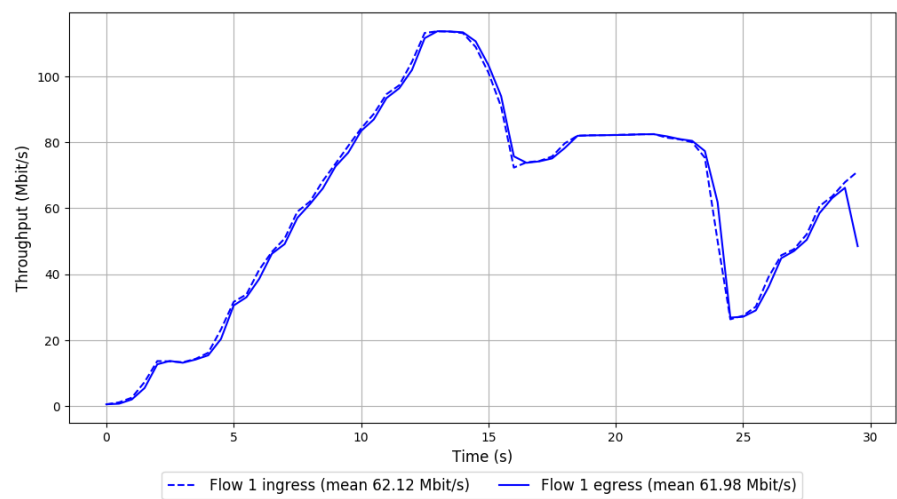
-- Flow 1:

Average throughput: 61.98 Mbit/s

95th percentile per-packet one-way delay: 136.303 ms

Loss rate: 1.12%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-16 16:40:29

End at: 2018-02-16 16:40:59

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 136.439 ms

Loss rate: 1.00%

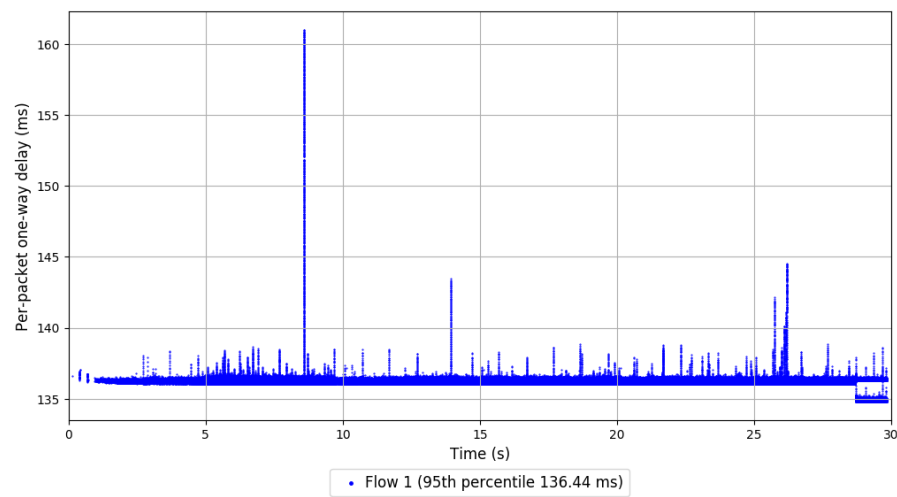
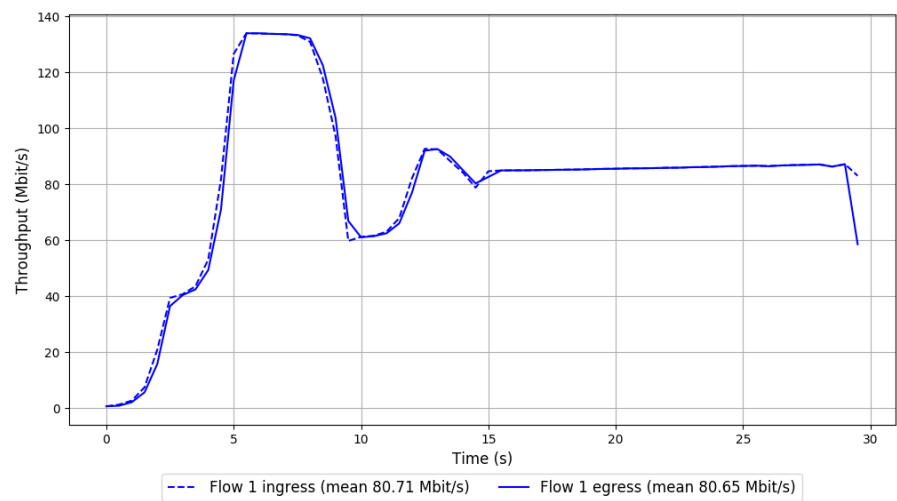
-- Flow 1:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 136.439 ms

Loss rate: 1.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 16:56:46

End at: 2018-02-16 16:57:16

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.71 Mbit/s

95th percentile per-packet one-way delay: 136.403 ms

Loss rate: 0.37%

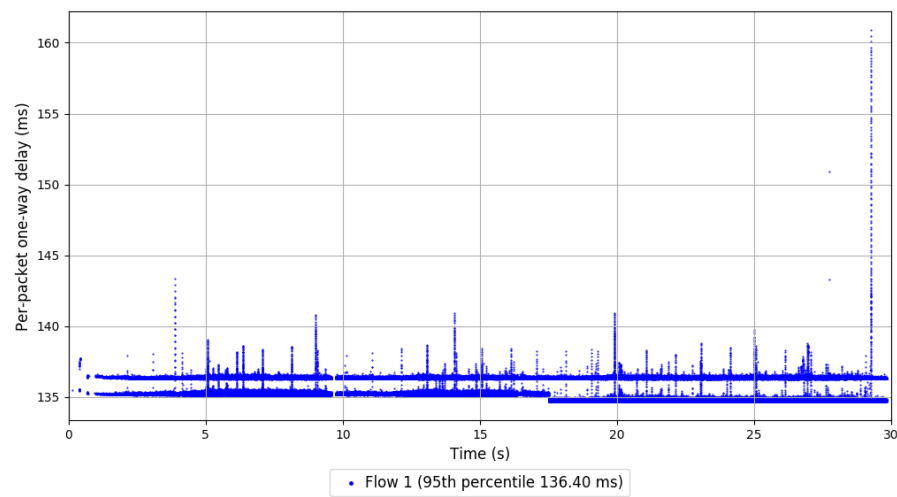
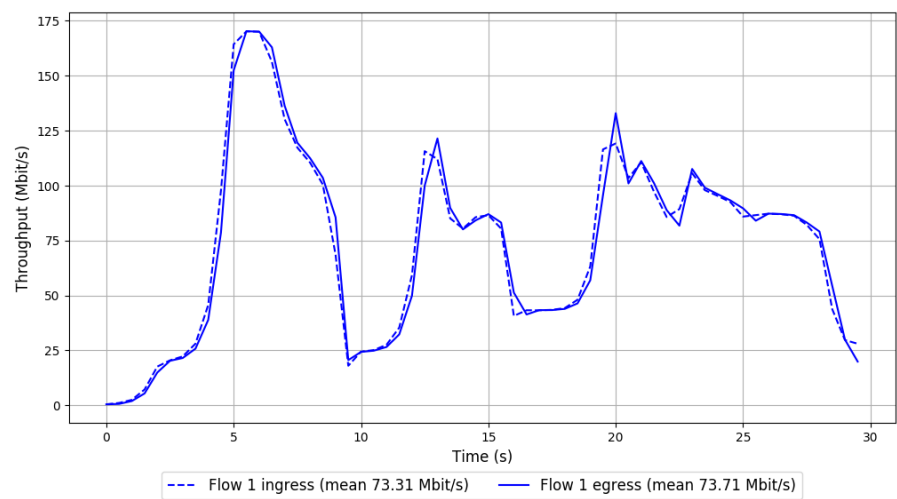
-- Flow 1:

Average throughput: 73.71 Mbit/s

95th percentile per-packet one-way delay: 136.403 ms

Loss rate: 0.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 17:12:48

End at: 2018-02-16 17:13:18

Below is generated by plot.py at 2018-02-16 20:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.54 Mbit/s

95th percentile per-packet one-way delay: 135.537 ms

Loss rate: 0.76%

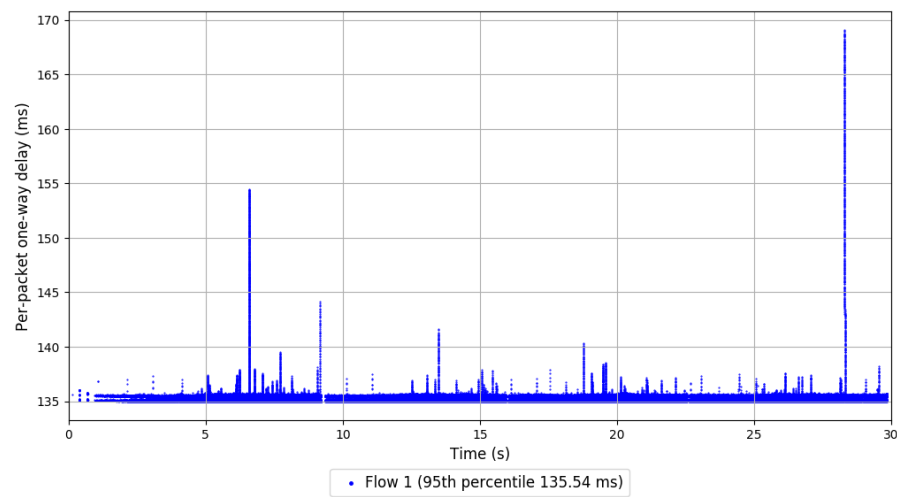
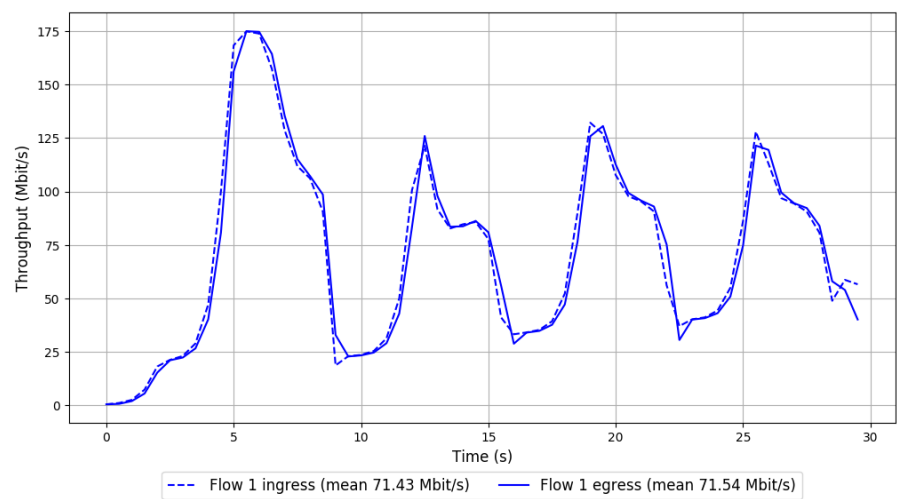
-- Flow 1:

Average throughput: 71.54 Mbit/s

95th percentile per-packet one-way delay: 135.537 ms

Loss rate: 0.76%

Run 10: Report of Copa — Data Link

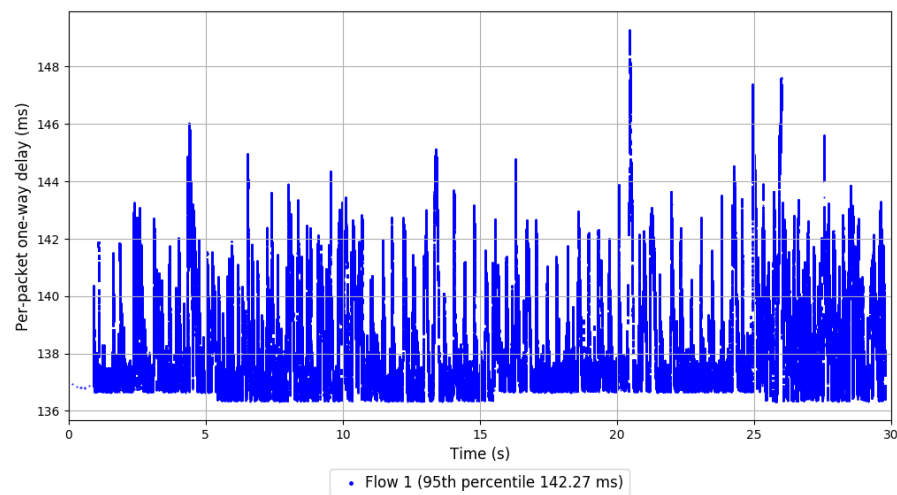
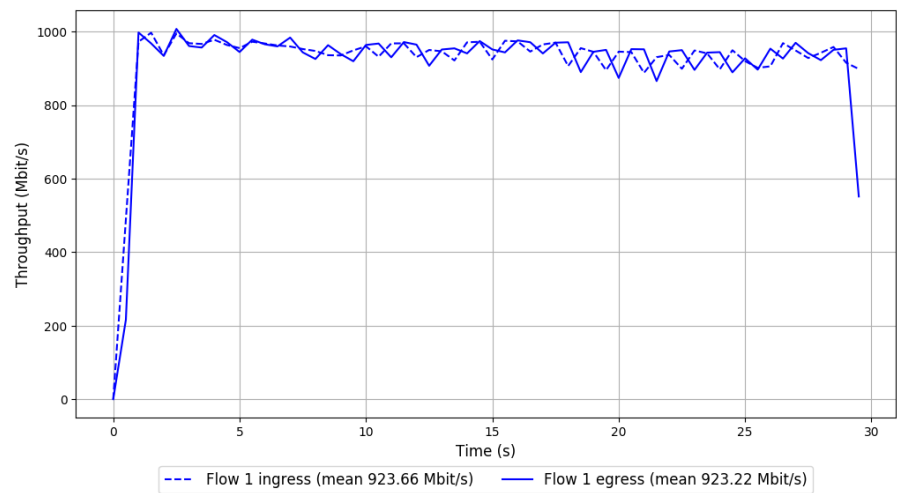


```
Run 1: Statistics of FillP

Start at: 2018-02-16 14:47:23
End at: 2018-02-16 14:47:53

# Below is generated by plot.py at 2018-02-16 20:53:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 923.22 Mbit/s
95th percentile per-packet one-way delay: 142.268 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 923.22 Mbit/s
95th percentile per-packet one-way delay: 142.268 ms
Loss rate: 1.05%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-16 15:03:49

End at: 2018-02-16 15:04:19

Below is generated by plot.py at 2018-02-16 20:53:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.20 Mbit/s

95th percentile per-packet one-way delay: 202.968 ms

Loss rate: 1.55%

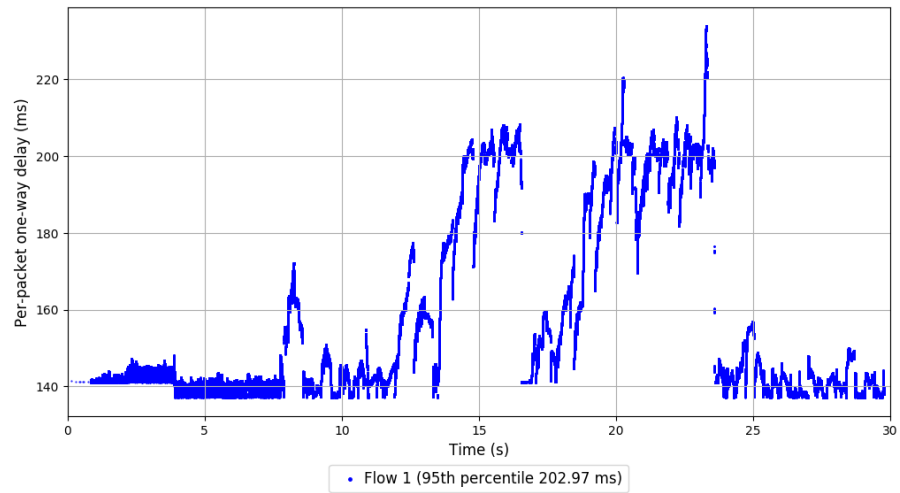
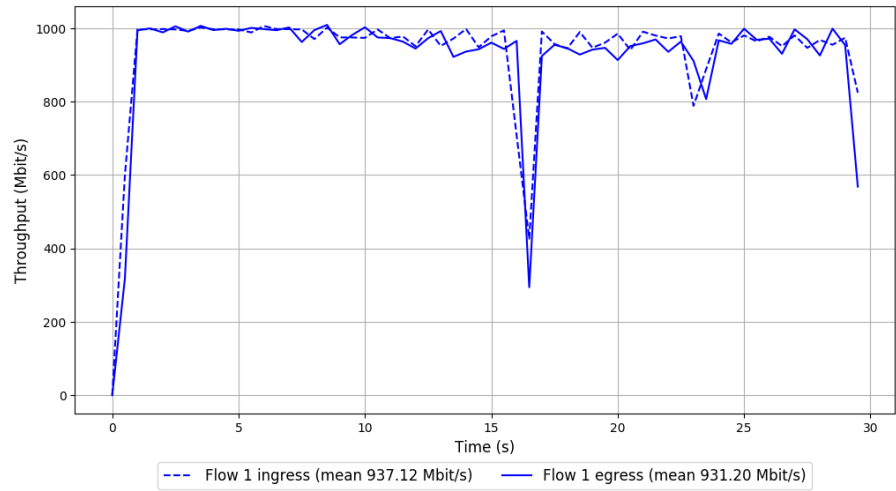
-- Flow 1:

Average throughput: 931.20 Mbit/s

95th percentile per-packet one-way delay: 202.968 ms

Loss rate: 1.55%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 15:20:02

End at: 2018-02-16 15:20:32

Below is generated by plot.py at 2018-02-16 20:53:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 936.61 Mbit/s

95th percentile per-packet one-way delay: 207.800 ms

Loss rate: 0.93%

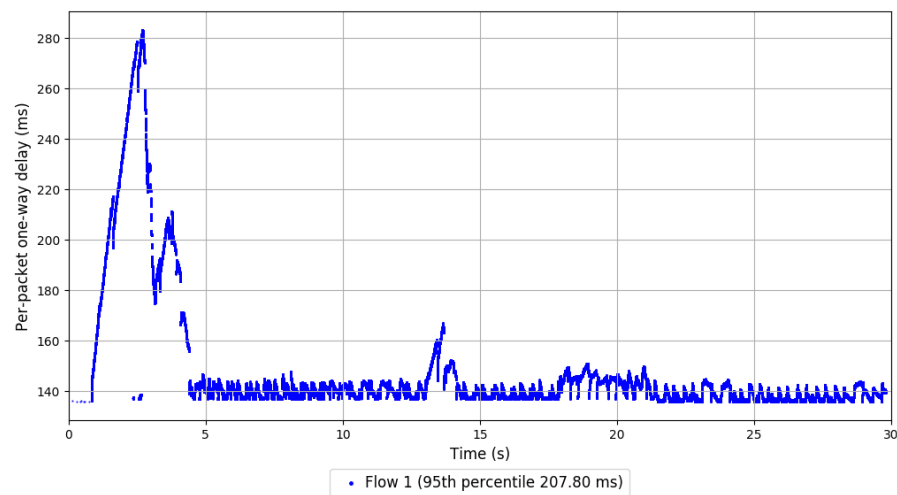
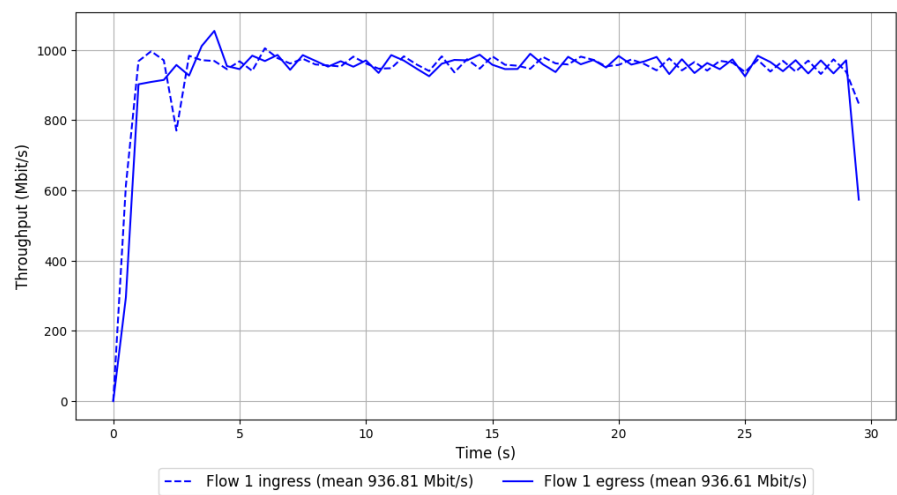
-- Flow 1:

Average throughput: 936.61 Mbit/s

95th percentile per-packet one-way delay: 207.800 ms

Loss rate: 0.93%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-16 15:36:05

End at: 2018-02-16 15:36:35

Below is generated by plot.py at 2018-02-16 20:53:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 916.02 Mbit/s

95th percentile per-packet one-way delay: 196.169 ms

Loss rate: 1.51%

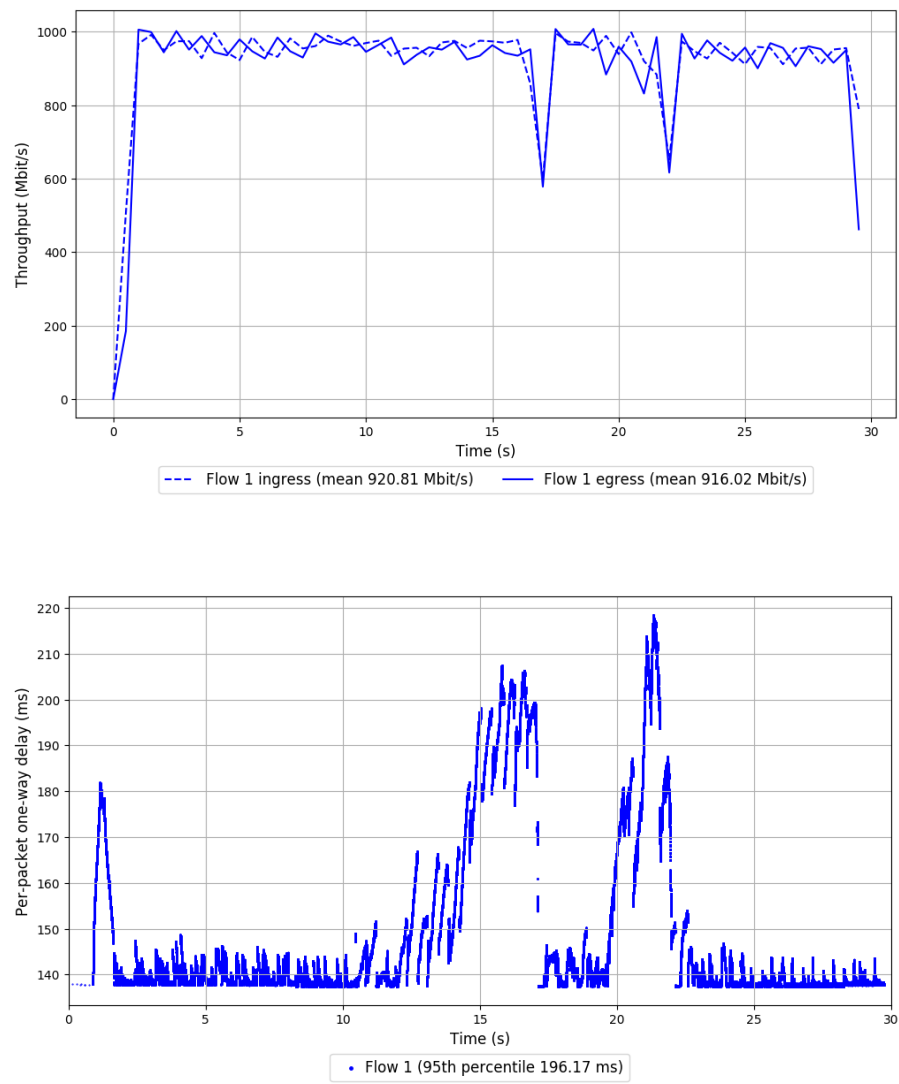
-- Flow 1:

Average throughput: 916.02 Mbit/s

95th percentile per-packet one-way delay: 196.169 ms

Loss rate: 1.51%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-16 15:52:20

End at: 2018-02-16 15:52:50

Below is generated by plot.py at 2018-02-16 20:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 933.08 Mbit/s

95th percentile per-packet one-way delay: 181.573 ms

Loss rate: 1.14%

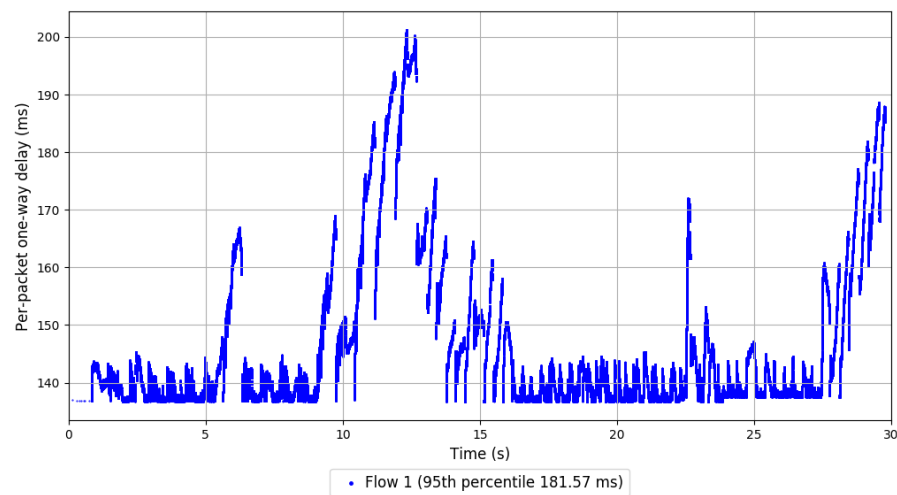
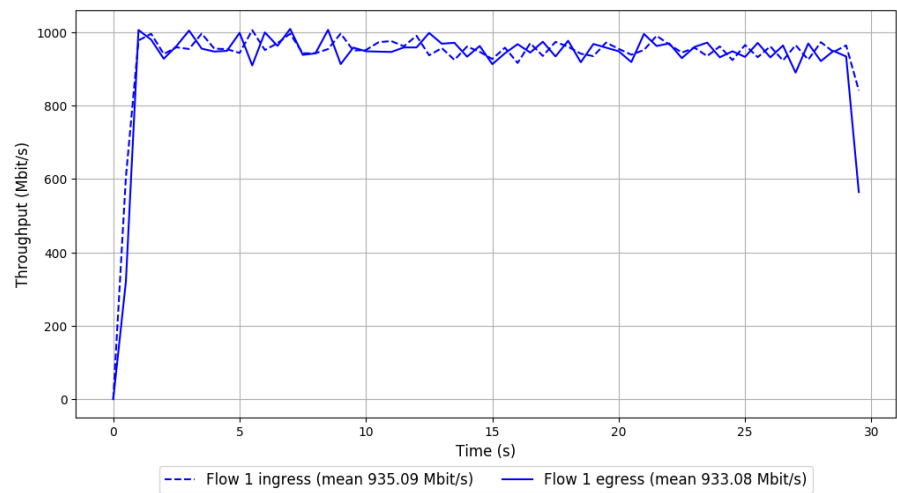
-- Flow 1:

Average throughput: 933.08 Mbit/s

95th percentile per-packet one-way delay: 181.573 ms

Loss rate: 1.14%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-16 16:08:47

End at: 2018-02-16 16:09:17

Below is generated by plot.py at 2018-02-16 20:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 859.82 Mbit/s

95th percentile per-packet one-way delay: 214.098 ms

Loss rate: 5.35%

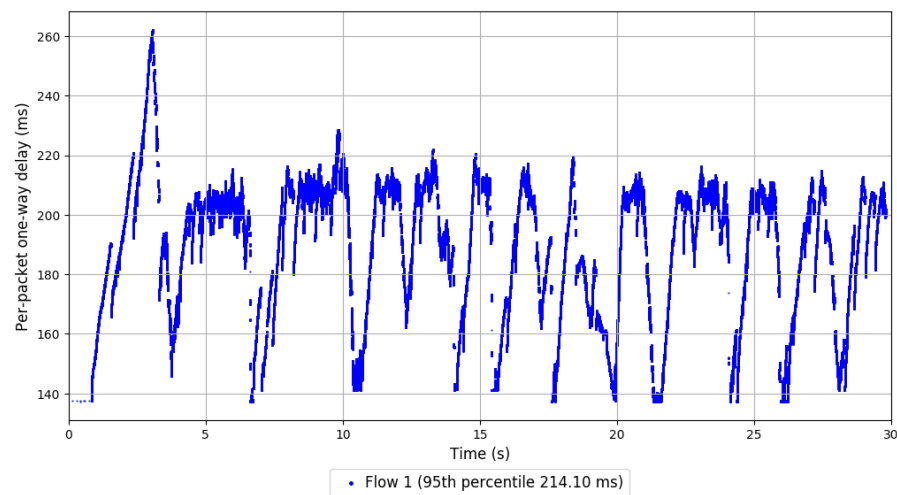
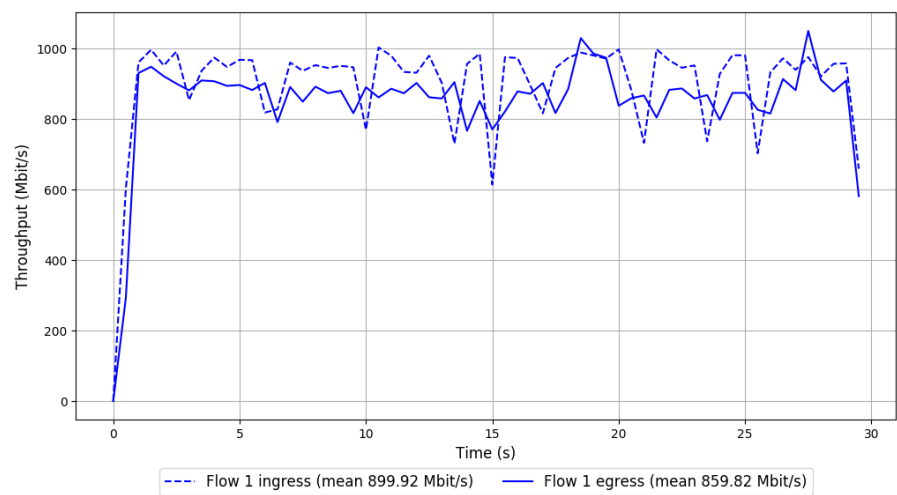
-- Flow 1:

Average throughput: 859.82 Mbit/s

95th percentile per-packet one-way delay: 214.098 ms

Loss rate: 5.35%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-16 16:25:16

End at: 2018-02-16 16:25:46

Below is generated by plot.py at 2018-02-16 20:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 939.87 Mbit/s

95th percentile per-packet one-way delay: 141.417 ms

Loss rate: 0.89%

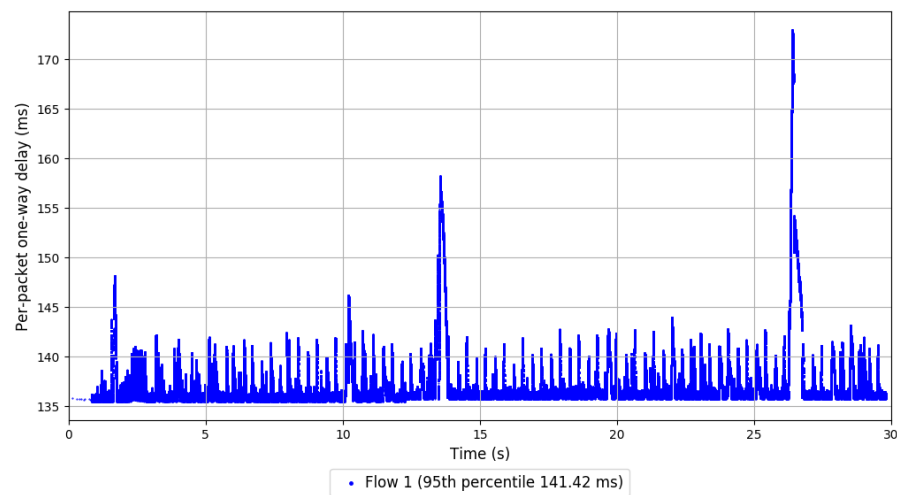
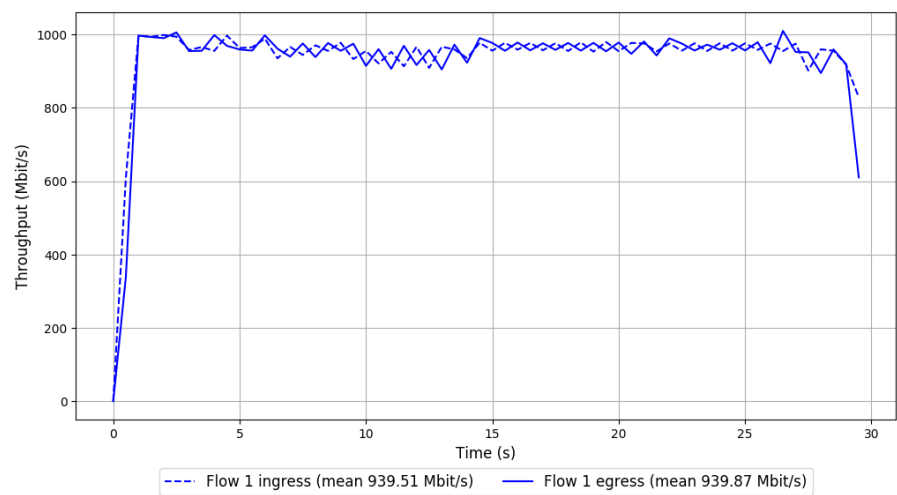
-- Flow 1:

Average throughput: 939.87 Mbit/s

95th percentile per-packet one-way delay: 141.417 ms

Loss rate: 0.89%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 16:41:20

End at: 2018-02-16 16:41:50

Below is generated by plot.py at 2018-02-16 20:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 818.87 Mbit/s

95th percentile per-packet one-way delay: 214.768 ms

Loss rate: 6.65%

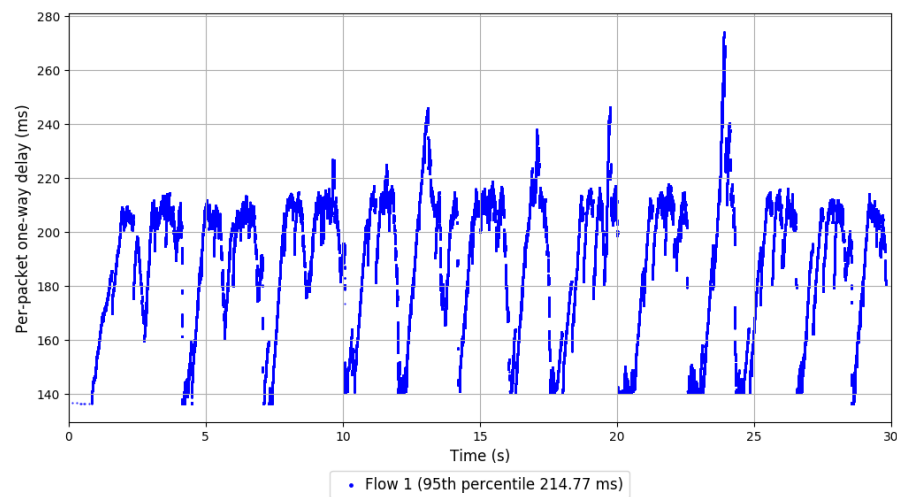
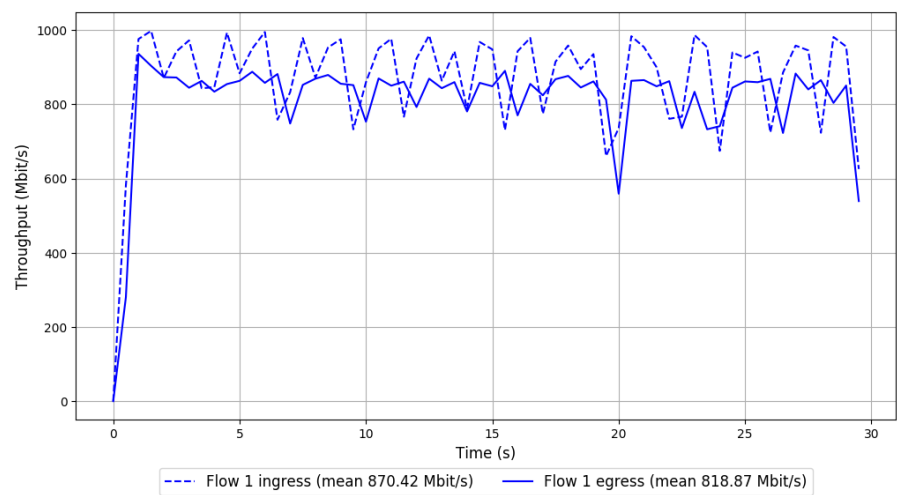
-- Flow 1:

Average throughput: 818.87 Mbit/s

95th percentile per-packet one-way delay: 214.768 ms

Loss rate: 6.65%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 16:57:36

End at: 2018-02-16 16:58:06

Below is generated by plot.py at 2018-02-16 21:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.24 Mbit/s

95th percentile per-packet one-way delay: 147.338 ms

Loss rate: 0.95%

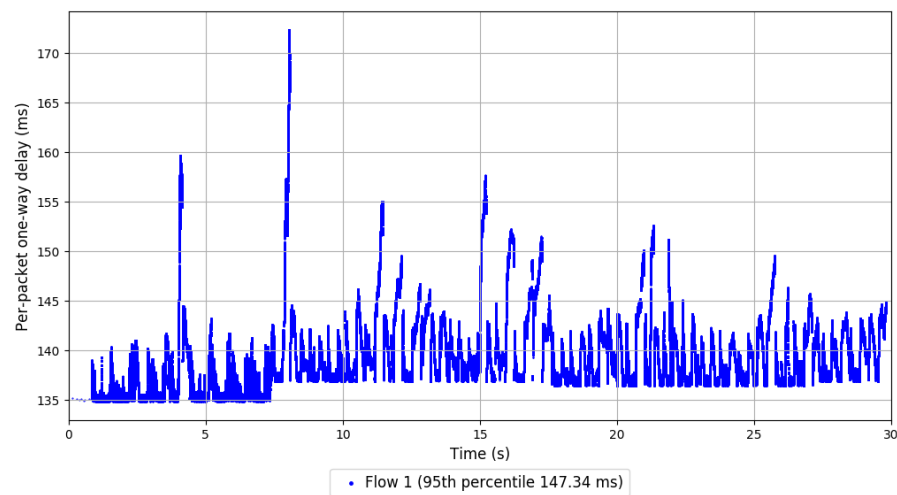
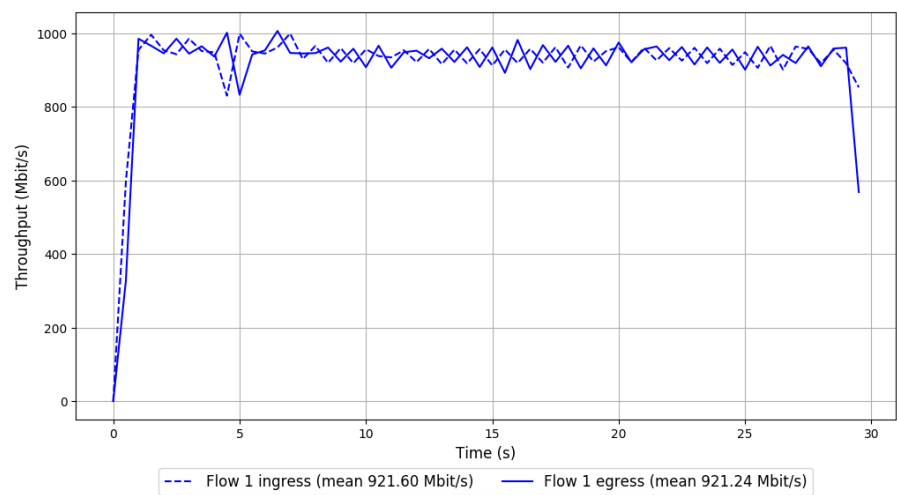
-- Flow 1:

Average throughput: 921.24 Mbit/s

95th percentile per-packet one-way delay: 147.338 ms

Loss rate: 0.95%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 17:13:38

End at: 2018-02-16 17:14:08

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 946.37 Mbit/s

95th percentile per-packet one-way delay: 164.646 ms

Loss rate: 1.19%

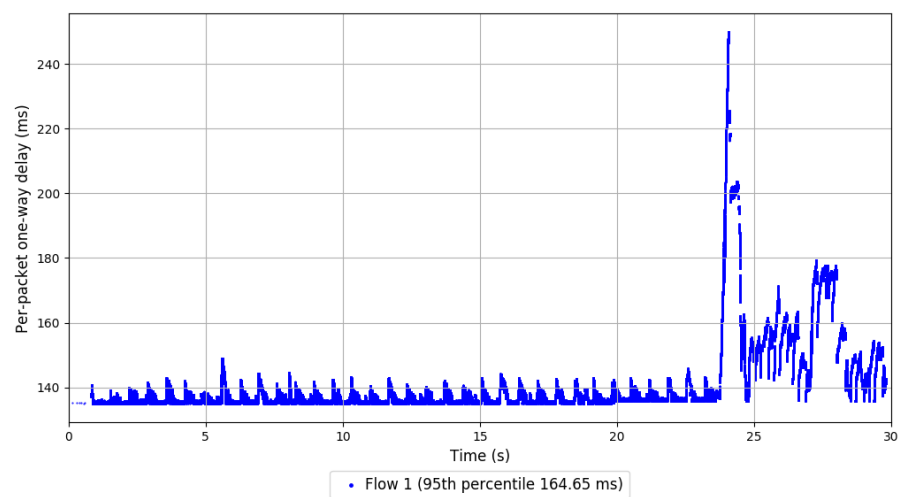
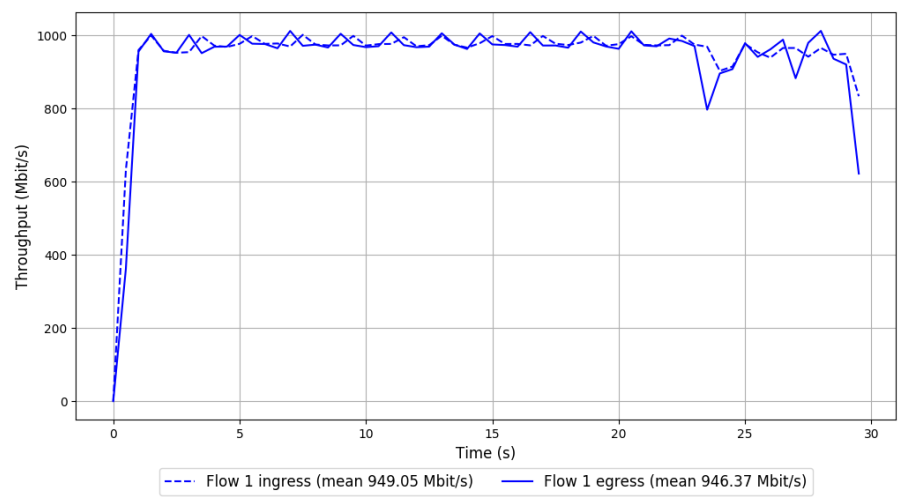
-- Flow 1:

Average throughput: 946.37 Mbit/s

95th percentile per-packet one-way delay: 164.646 ms

Loss rate: 1.19%

Run 10: Report of FillP — Data Link

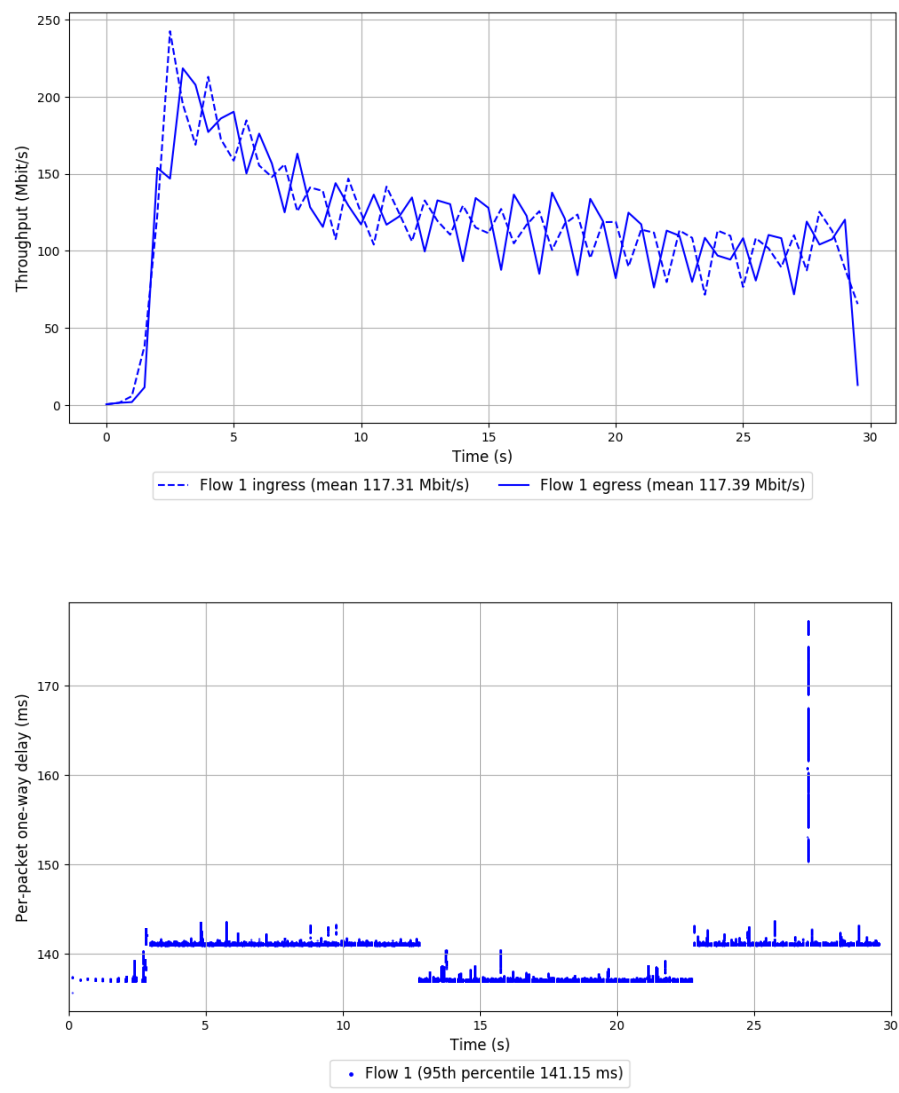


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 14:50:35
End at: 2018-02-16 14:51:05

# Below is generated by plot.py at 2018-02-16 21:10:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.39 Mbit/s
95th percentile per-packet one-way delay: 141.148 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 117.39 Mbit/s
95th percentile per-packet one-way delay: 141.148 ms
Loss rate: 0.94%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 15:07:03

End at: 2018-02-16 15:07:33

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.01 Mbit/s

95th percentile per-packet one-way delay: 141.139 ms

Loss rate: 1.04%

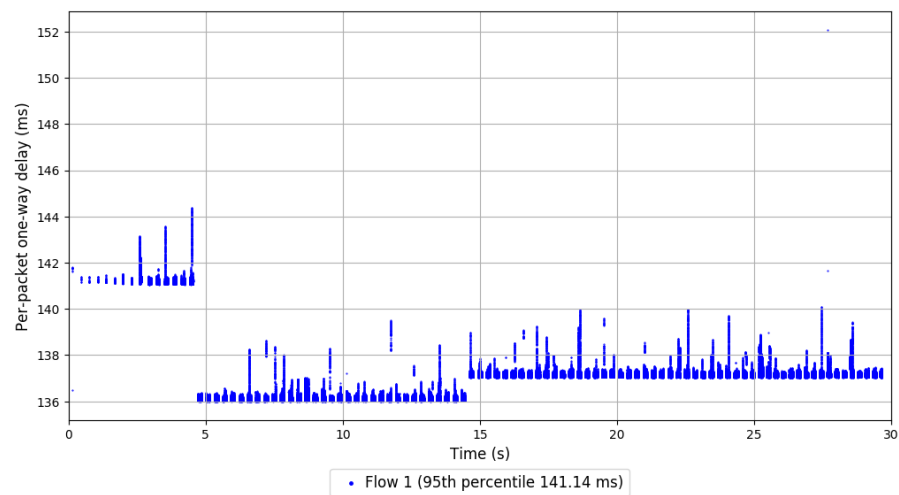
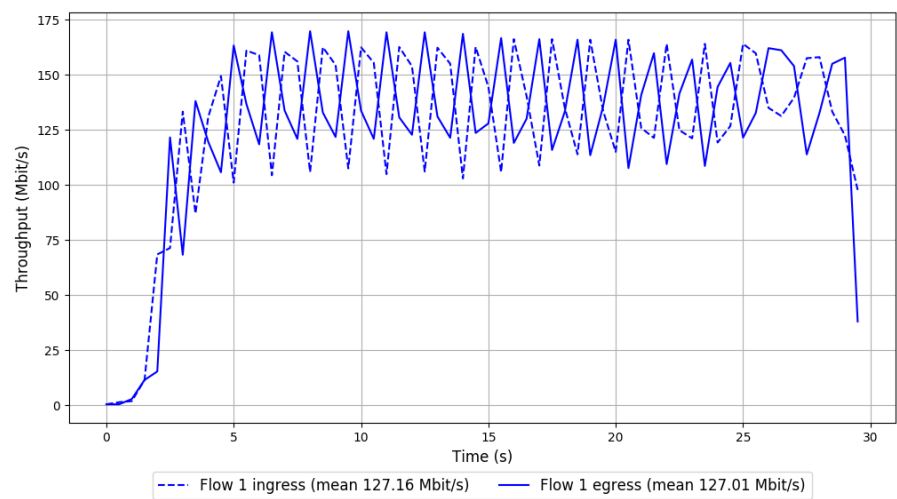
-- Flow 1:

Average throughput: 127.01 Mbit/s

95th percentile per-packet one-way delay: 141.139 ms

Loss rate: 1.04%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 15:23:14

End at: 2018-02-16 15:23:44

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.37 Mbit/s

95th percentile per-packet one-way delay: 137.358 ms

Loss rate: 0.98%

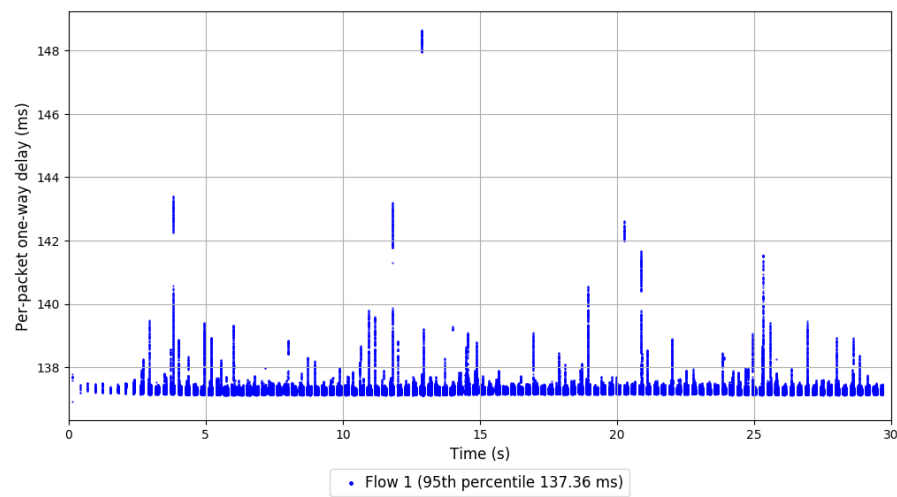
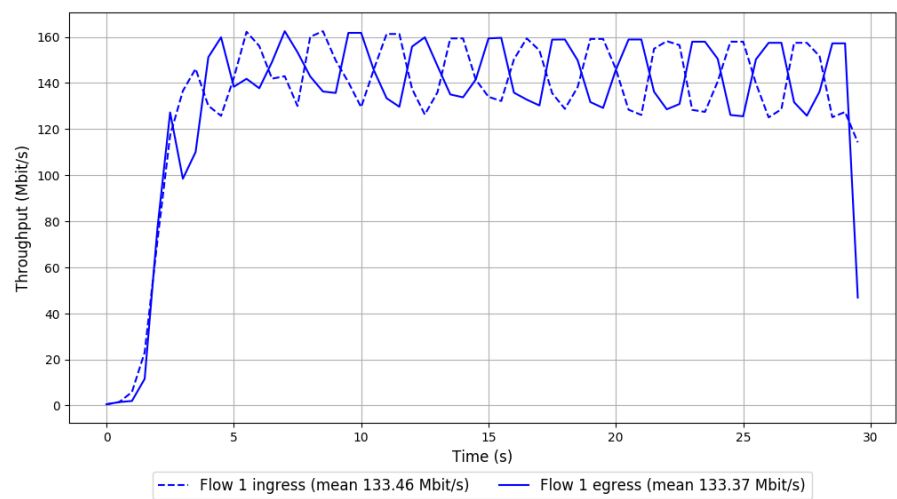
-- Flow 1:

Average throughput: 133.37 Mbit/s

95th percentile per-packet one-way delay: 137.358 ms

Loss rate: 0.98%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-16 15:39:20

End at: 2018-02-16 15:39:51

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.50 Mbit/s

95th percentile per-packet one-way delay: 137.569 ms

Loss rate: 0.92%

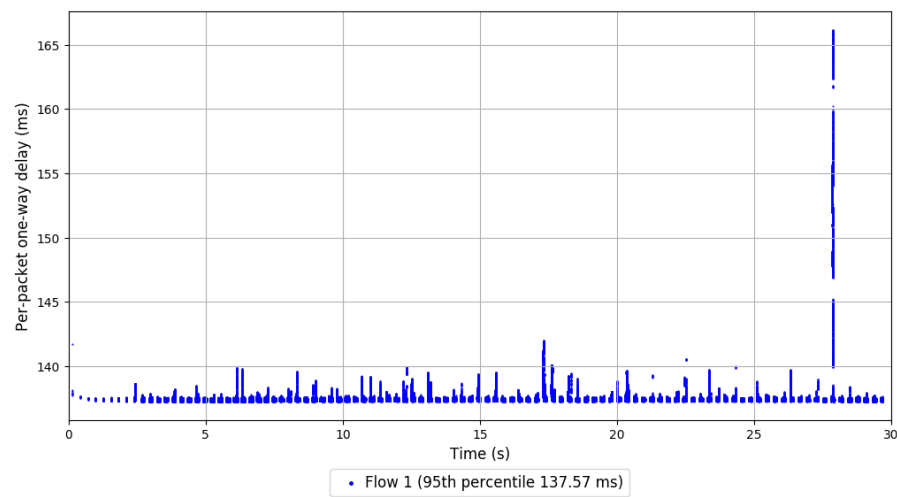
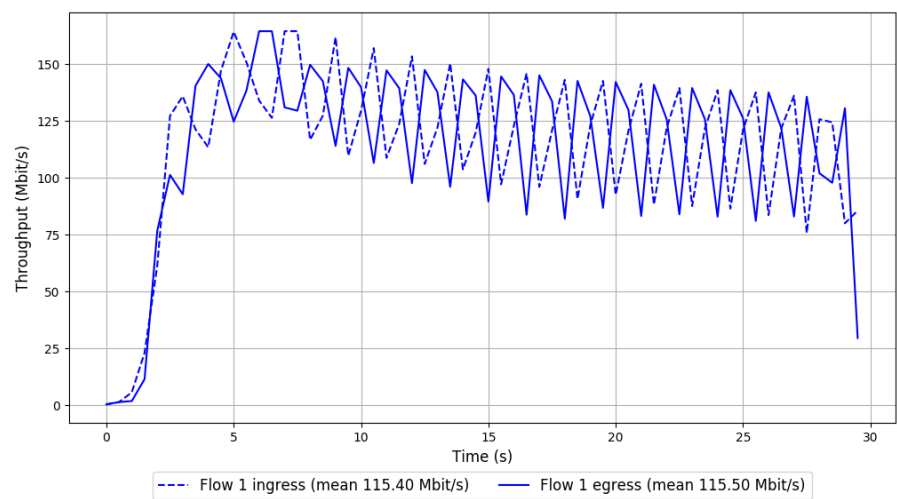
-- Flow 1:

Average throughput: 115.50 Mbit/s

95th percentile per-packet one-way delay: 137.569 ms

Loss rate: 0.92%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-16 15:55:32

End at: 2018-02-16 15:56:02

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.89 Mbit/s

95th percentile per-packet one-way delay: 137.906 ms

Loss rate: 0.86%

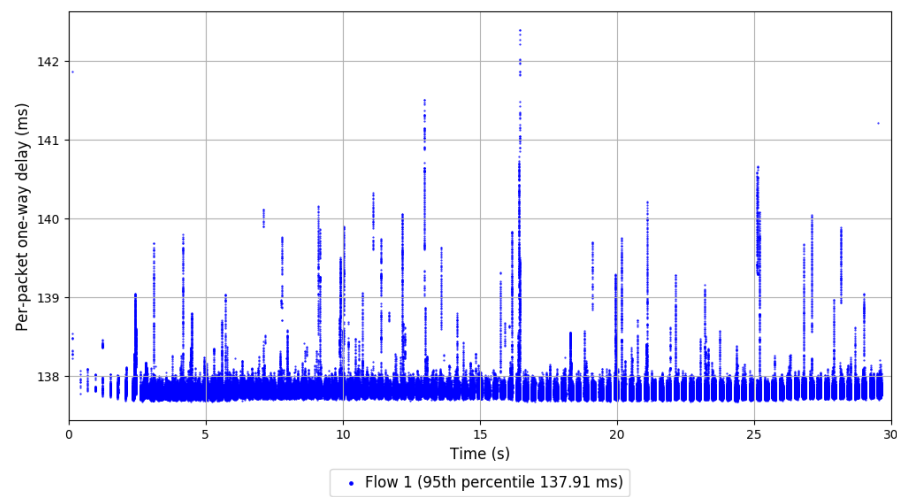
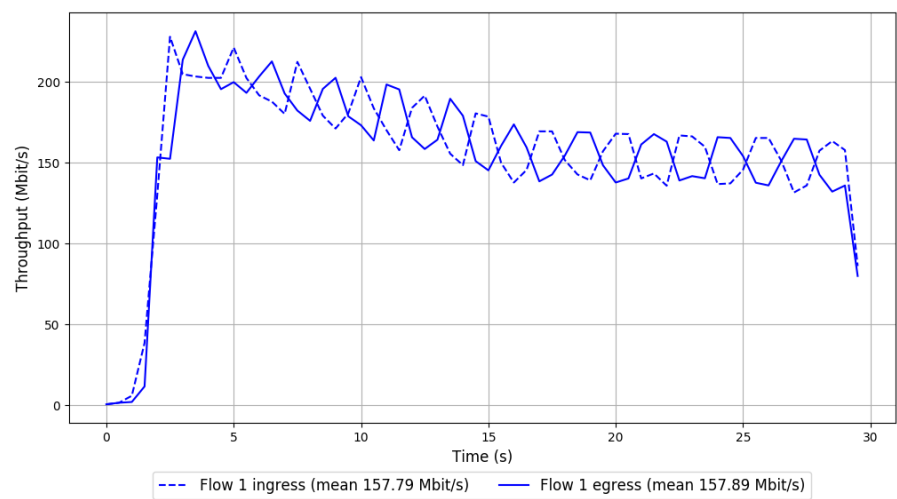
-- Flow 1:

Average throughput: 157.89 Mbit/s

95th percentile per-packet one-way delay: 137.906 ms

Loss rate: 0.86%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 16:11:59

End at: 2018-02-16 16:12:29

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.96 Mbit/s

95th percentile per-packet one-way delay: 137.071 ms

Loss rate: 0.93%

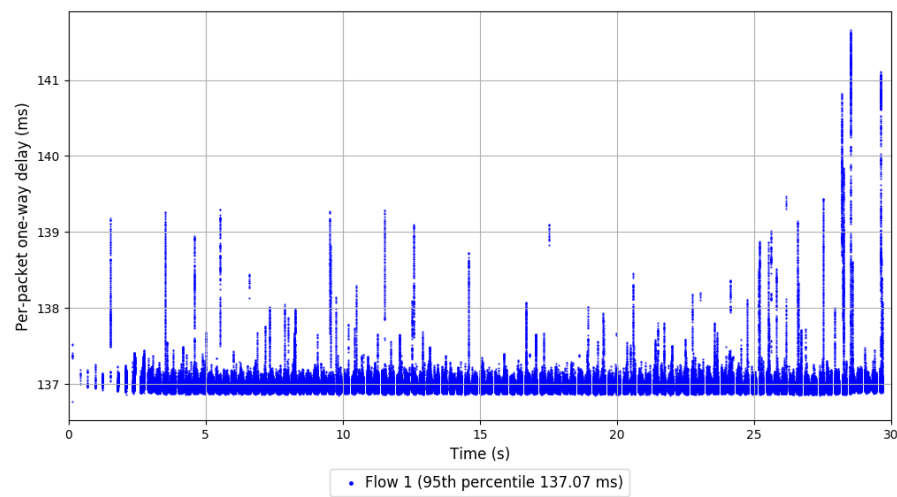
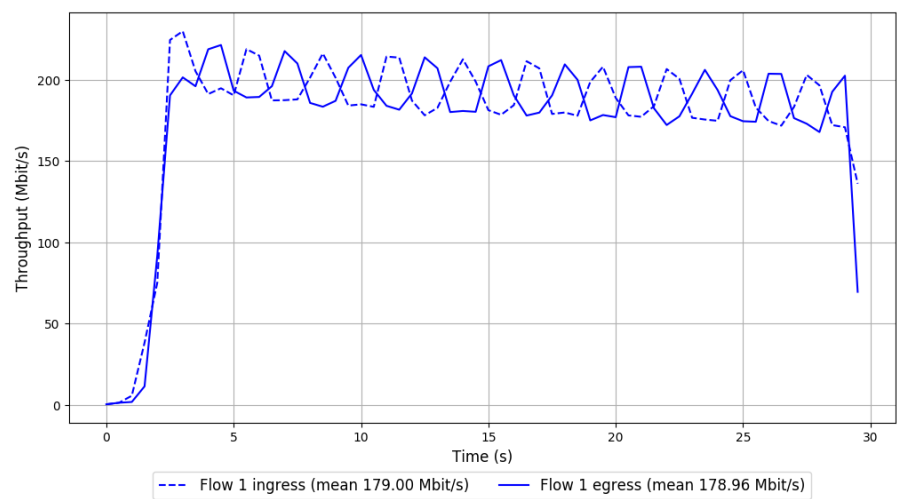
-- Flow 1:

Average throughput: 178.96 Mbit/s

95th percentile per-packet one-way delay: 137.071 ms

Loss rate: 0.93%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-16 16:28:28

End at: 2018-02-16 16:28:58

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.08 Mbit/s

95th percentile per-packet one-way delay: 136.516 ms

Loss rate: 0.96%

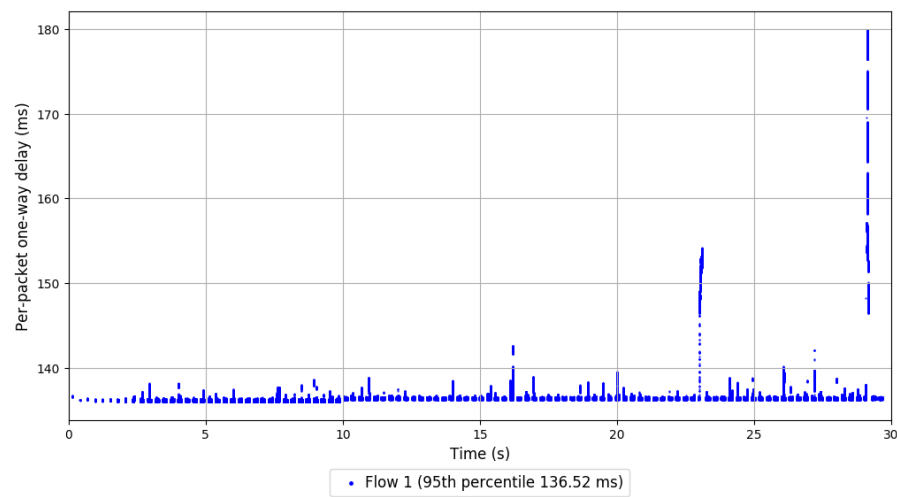
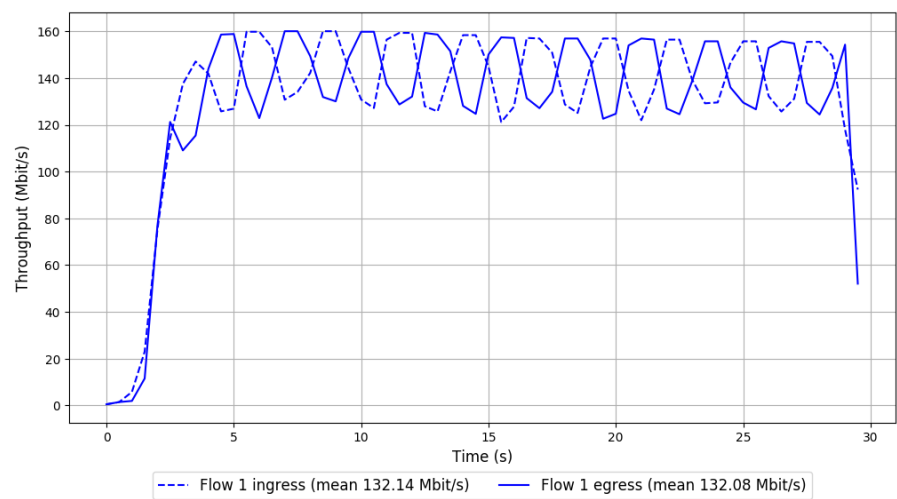
-- Flow 1:

Average throughput: 132.08 Mbit/s

95th percentile per-packet one-way delay: 136.516 ms

Loss rate: 0.96%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 16:44:28

End at: 2018-02-16 16:44:58

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.55 Mbit/s

95th percentile per-packet one-way delay: 136.261 ms

Loss rate: 0.98%

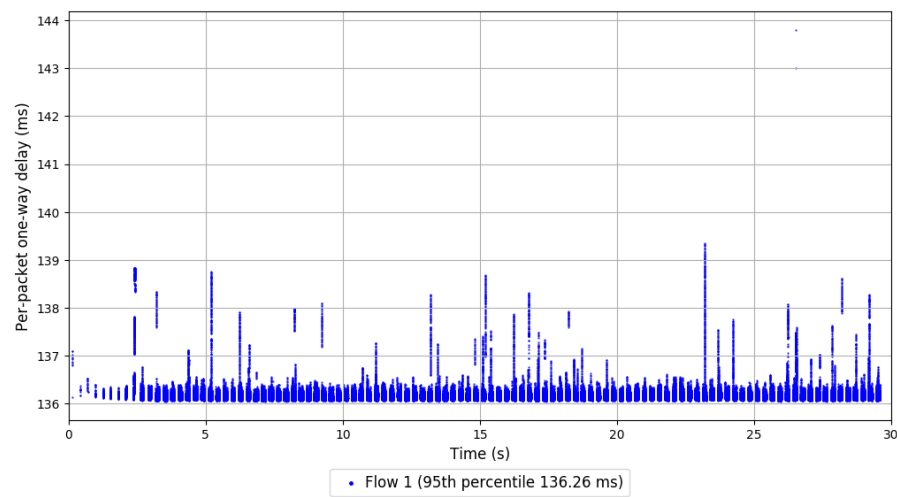
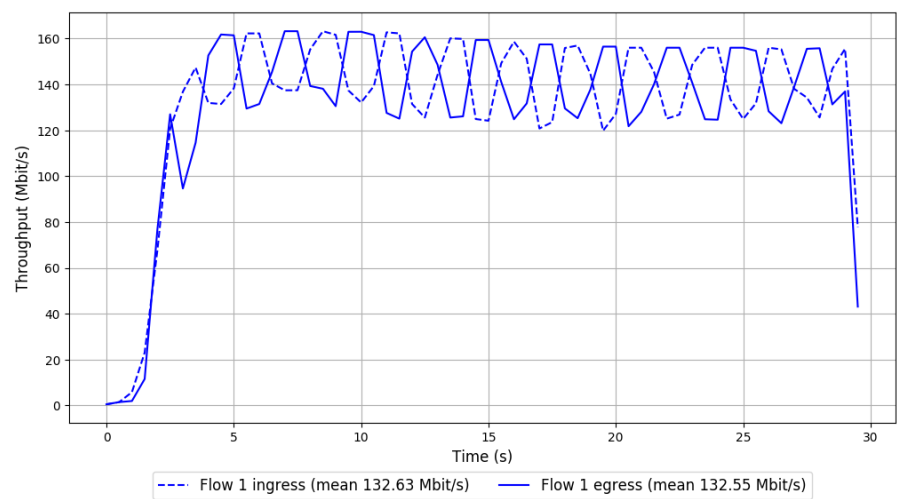
-- Flow 1:

Average throughput: 132.55 Mbit/s

95th percentile per-packet one-way delay: 136.261 ms

Loss rate: 0.98%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 17:00:48

End at: 2018-02-16 17:01:18

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.14 Mbit/s

95th percentile per-packet one-way delay: 135.378 ms

Loss rate: 0.93%

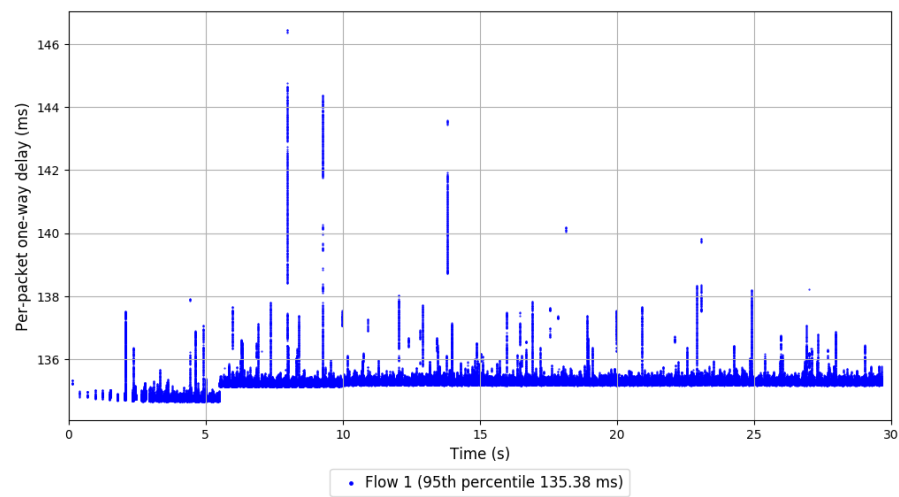
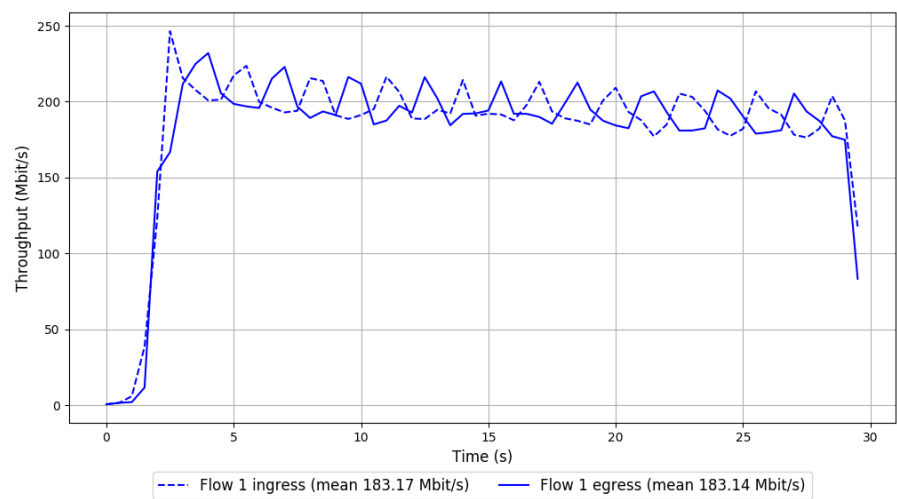
-- Flow 1:

Average throughput: 183.14 Mbit/s

95th percentile per-packet one-way delay: 135.378 ms

Loss rate: 0.93%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 17:16:51

End at: 2018-02-16 17:17:21

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.25 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 0.93%

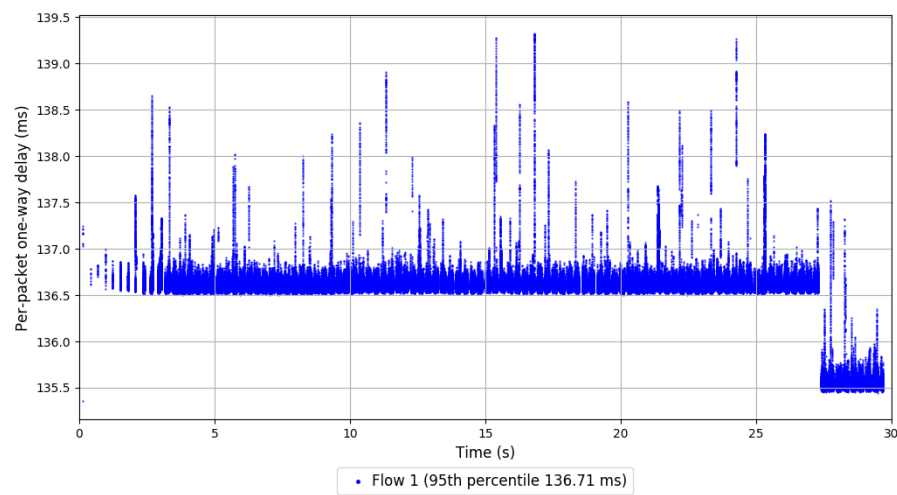
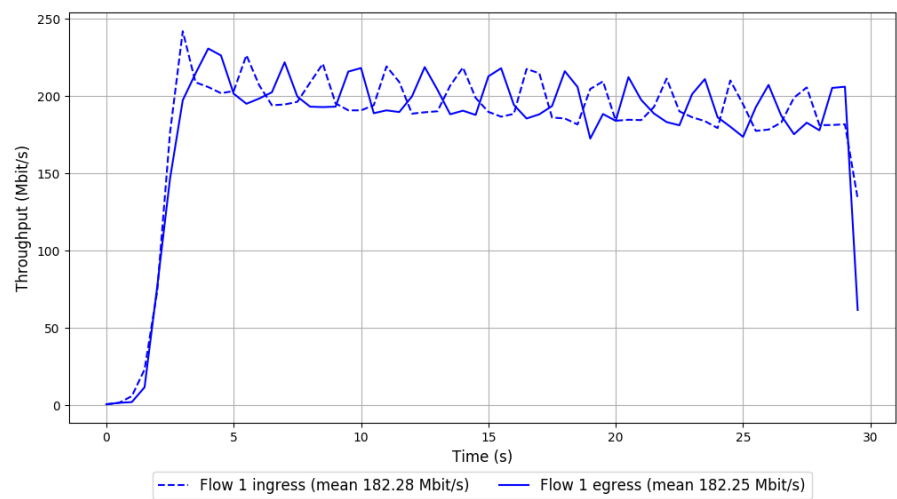
-- Flow 1:

Average throughput: 182.25 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 0.93%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 14:49:26

End at: 2018-02-16 14:49:56

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.12 Mbit/s

95th percentile per-packet one-way delay: 138.201 ms

Loss rate: 1.28%

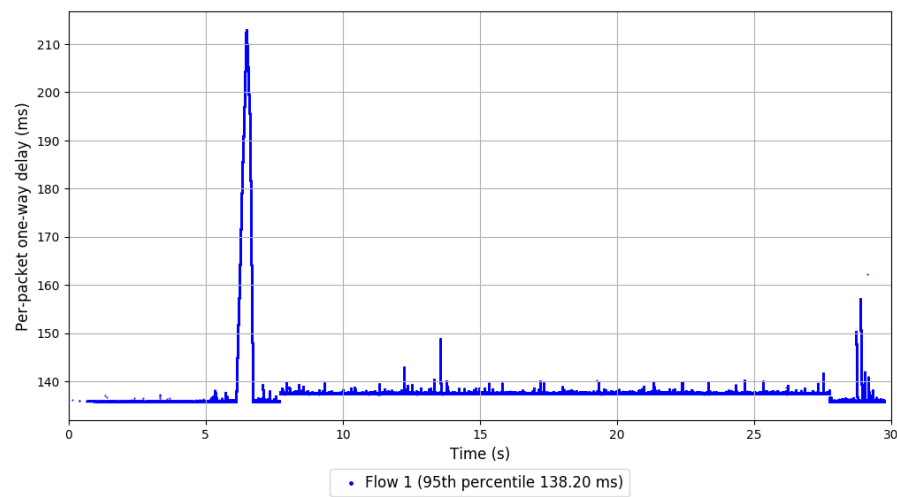
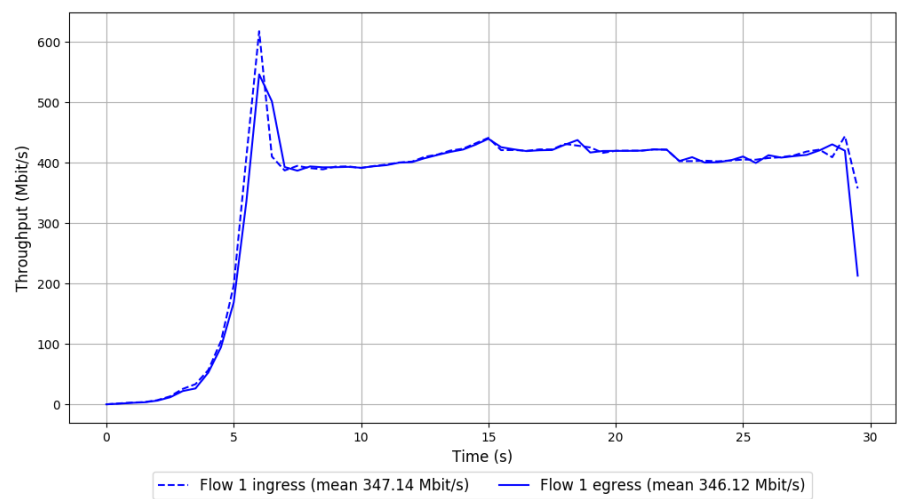
-- Flow 1:

Average throughput: 346.12 Mbit/s

95th percentile per-packet one-way delay: 138.201 ms

Loss rate: 1.28%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 15:05:52

End at: 2018-02-16 15:06:22

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.35 Mbit/s

95th percentile per-packet one-way delay: 143.968 ms

Loss rate: 1.36%

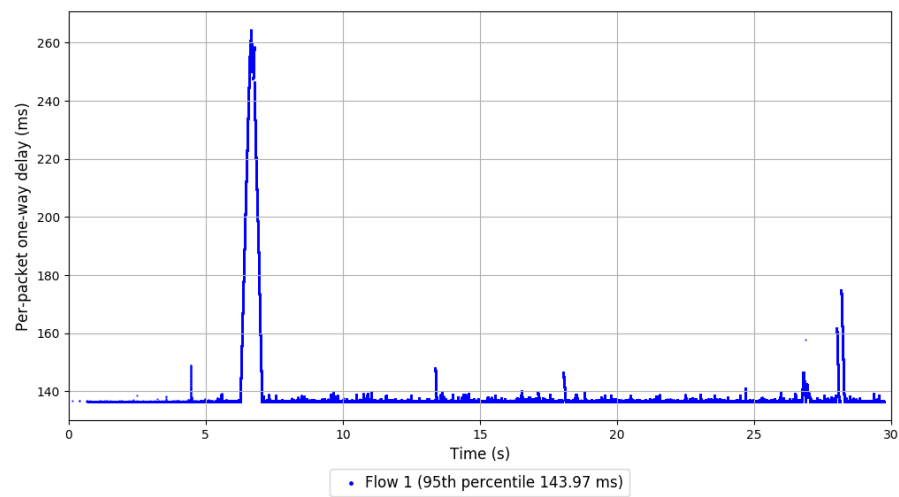
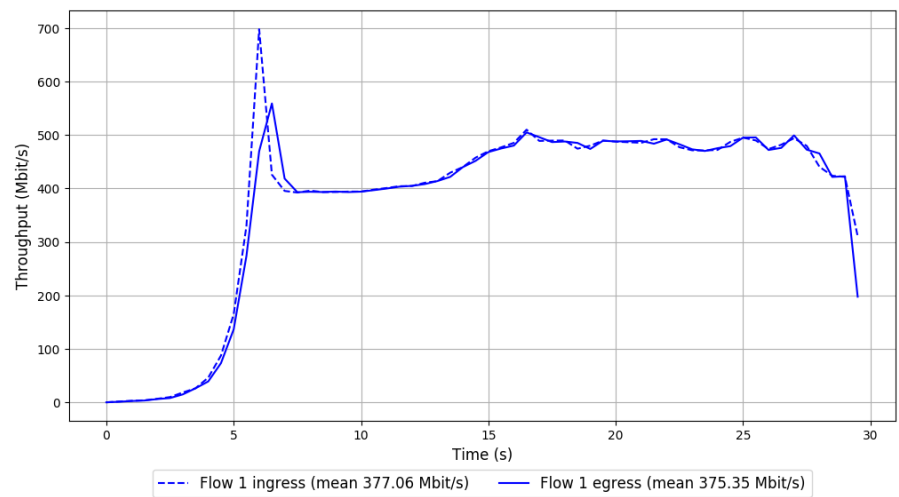
-- Flow 1:

Average throughput: 375.35 Mbit/s

95th percentile per-packet one-way delay: 143.968 ms

Loss rate: 1.36%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 15:22:05

End at: 2018-02-16 15:22:35

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.92 Mbit/s

95th percentile per-packet one-way delay: 149.596 ms

Loss rate: 1.08%

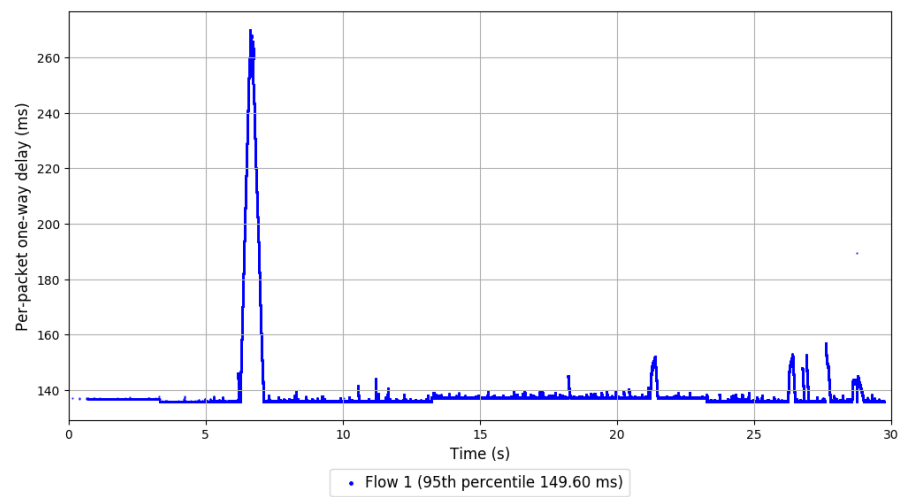
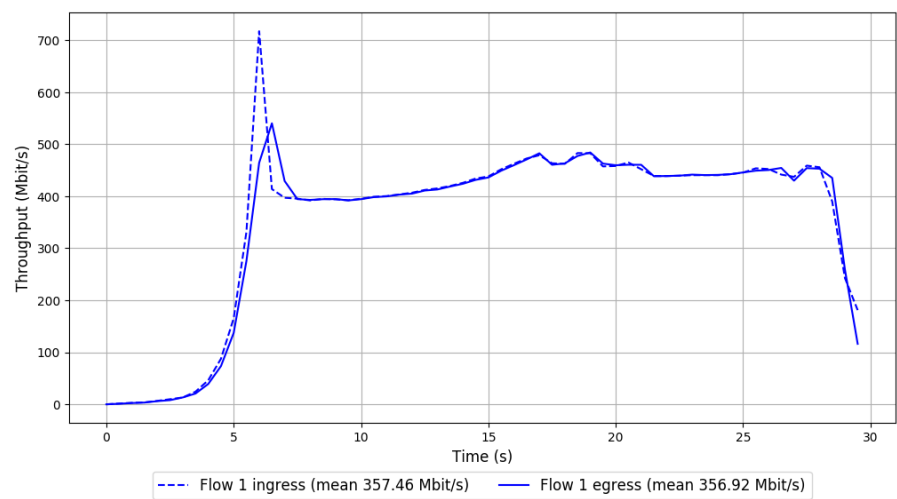
-- Flow 1:

Average throughput: 356.92 Mbit/s

95th percentile per-packet one-way delay: 149.596 ms

Loss rate: 1.08%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 15:38:09

End at: 2018-02-16 15:38:39

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.53 Mbit/s

95th percentile per-packet one-way delay: 140.021 ms

Loss rate: 1.42%

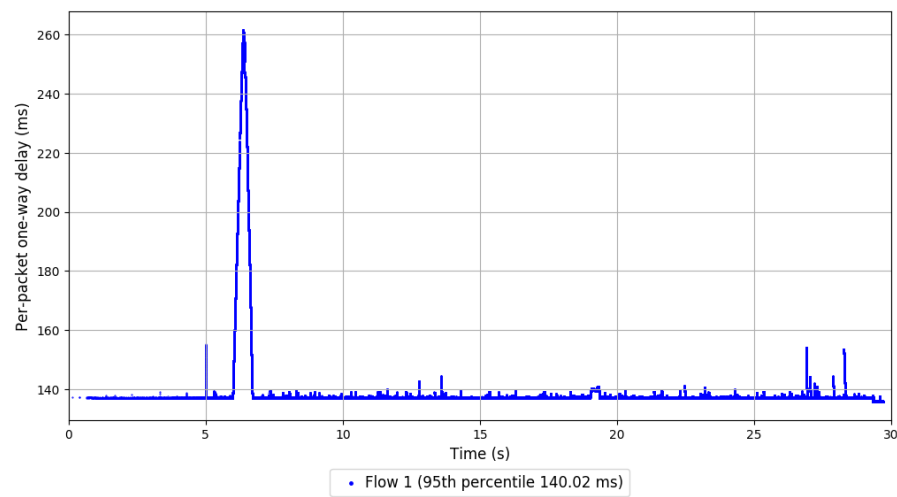
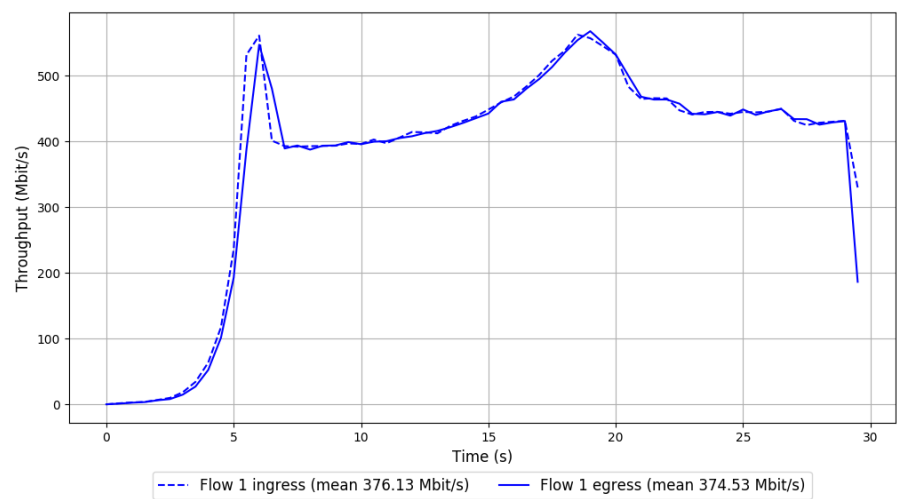
-- Flow 1:

Average throughput: 374.53 Mbit/s

95th percentile per-packet one-way delay: 140.021 ms

Loss rate: 1.42%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-16 15:54:22

End at: 2018-02-16 15:54:52

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.84 Mbit/s

95th percentile per-packet one-way delay: 141.939 ms

Loss rate: 1.49%

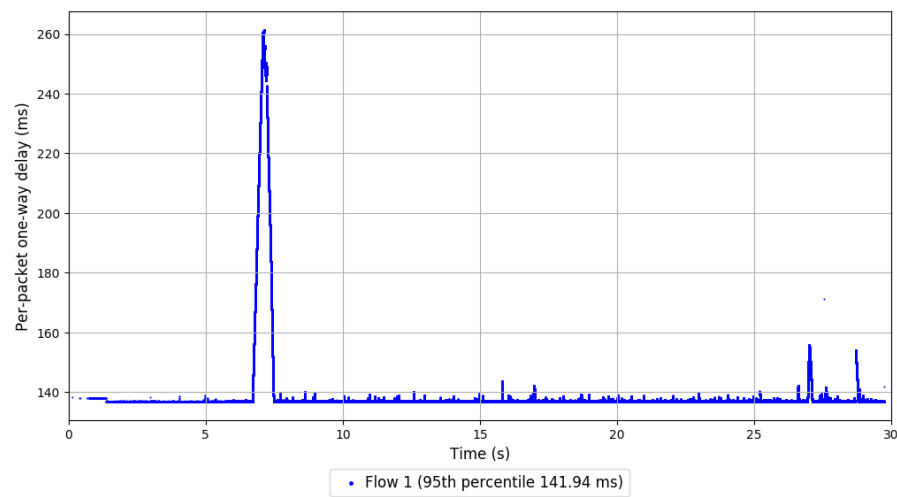
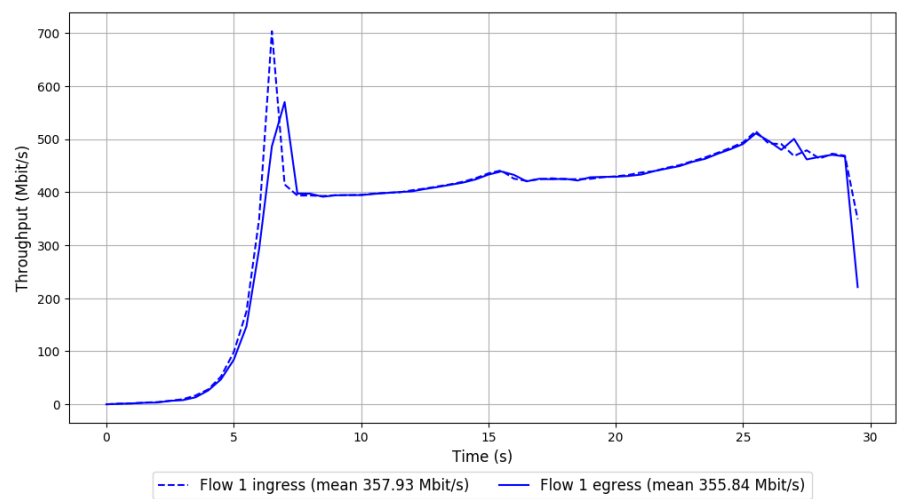
-- Flow 1:

Average throughput: 355.84 Mbit/s

95th percentile per-packet one-way delay: 141.939 ms

Loss rate: 1.49%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-16 16:10:47

End at: 2018-02-16 16:11:17

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.10 Mbit/s

95th percentile per-packet one-way delay: 144.118 ms

Loss rate: 1.23%

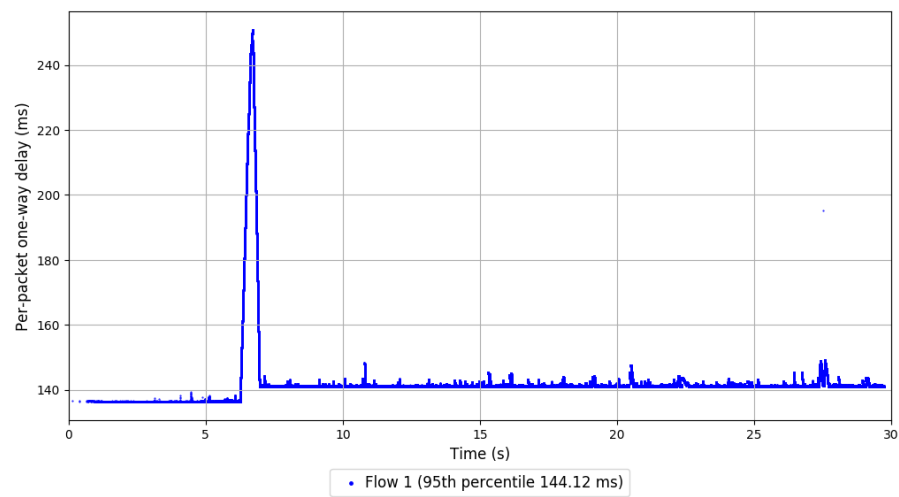
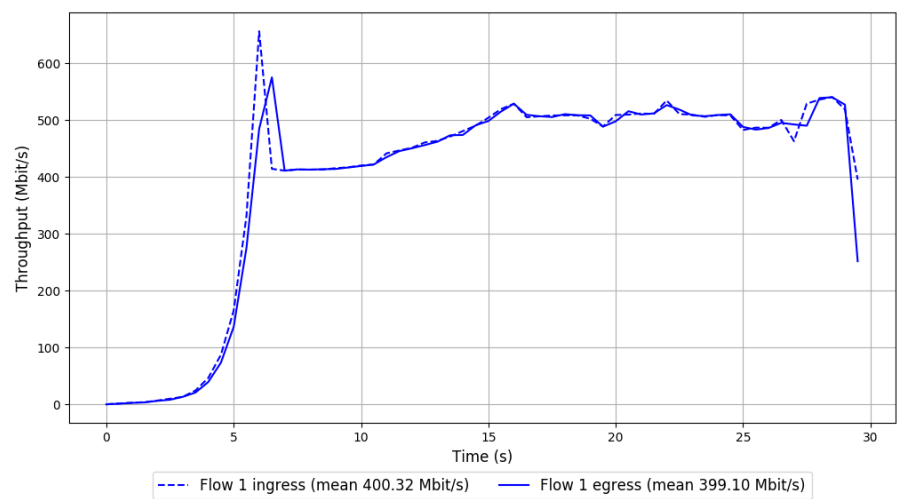
-- Flow 1:

Average throughput: 399.10 Mbit/s

95th percentile per-packet one-way delay: 144.118 ms

Loss rate: 1.23%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-16 16:27:19

End at: 2018-02-16 16:27:50

Below is generated by plot.py at 2018-02-16 21:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.67 Mbit/s

95th percentile per-packet one-way delay: 138.760 ms

Loss rate: 1.07%

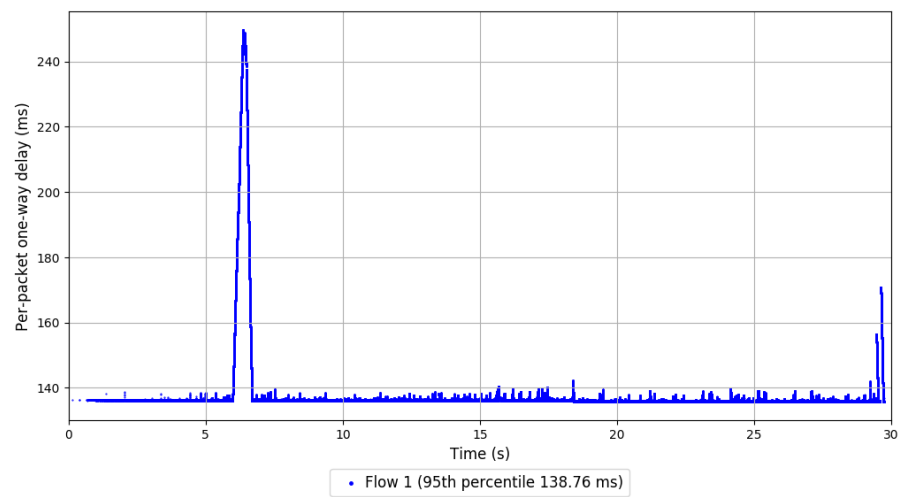
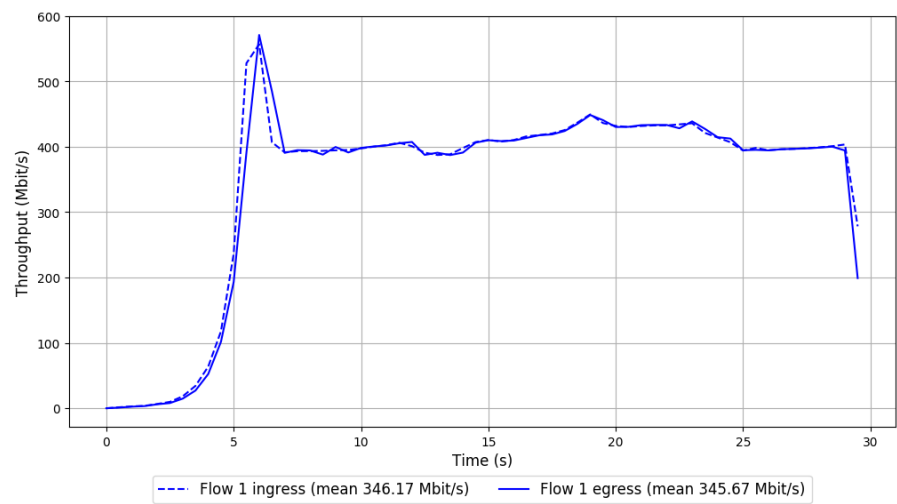
-- Flow 1:

Average throughput: 345.67 Mbit/s

95th percentile per-packet one-way delay: 138.760 ms

Loss rate: 1.07%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 16:43:19

End at: 2018-02-16 16:43:49

Below is generated by plot.py at 2018-02-16 21:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.48 Mbit/s

95th percentile per-packet one-way delay: 193.443 ms

Loss rate: 0.65%

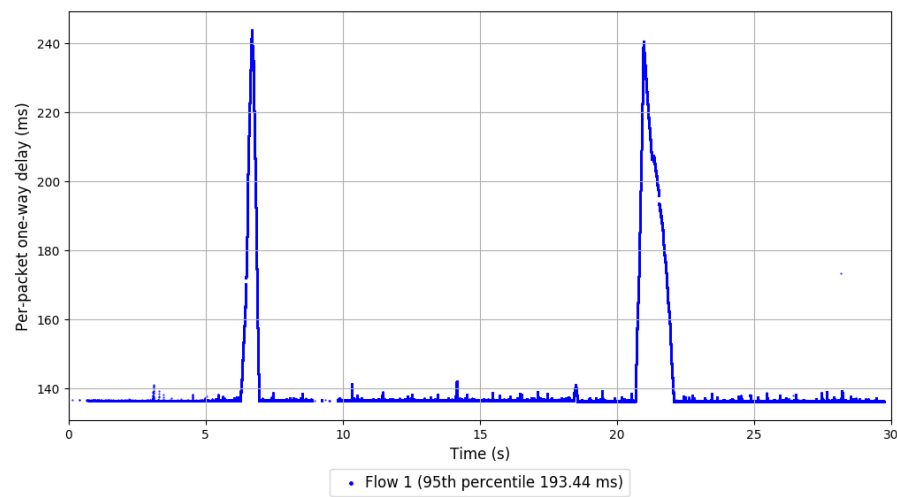
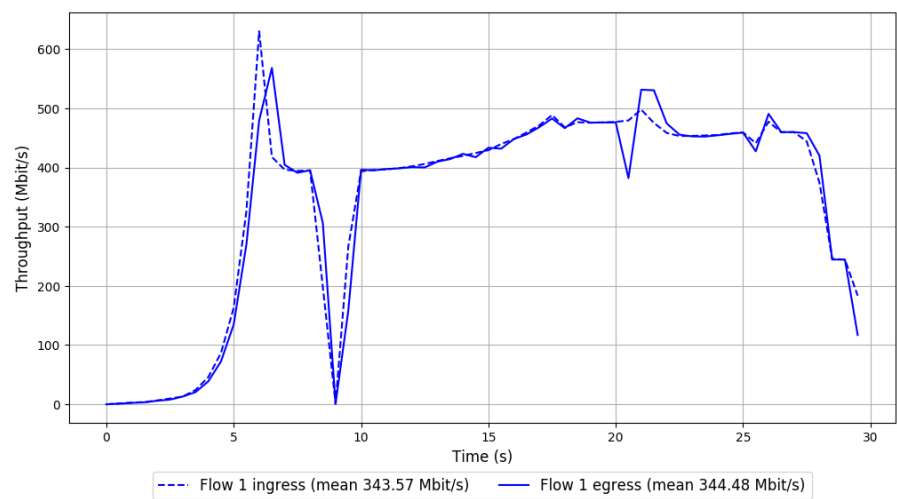
-- Flow 1:

Average throughput: 344.48 Mbit/s

95th percentile per-packet one-way delay: 193.443 ms

Loss rate: 0.65%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 16:59:38

End at: 2018-02-16 17:00:08

Below is generated by plot.py at 2018-02-16 21:11:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.57 Mbit/s

95th percentile per-packet one-way delay: 155.513 ms

Loss rate: 1.38%

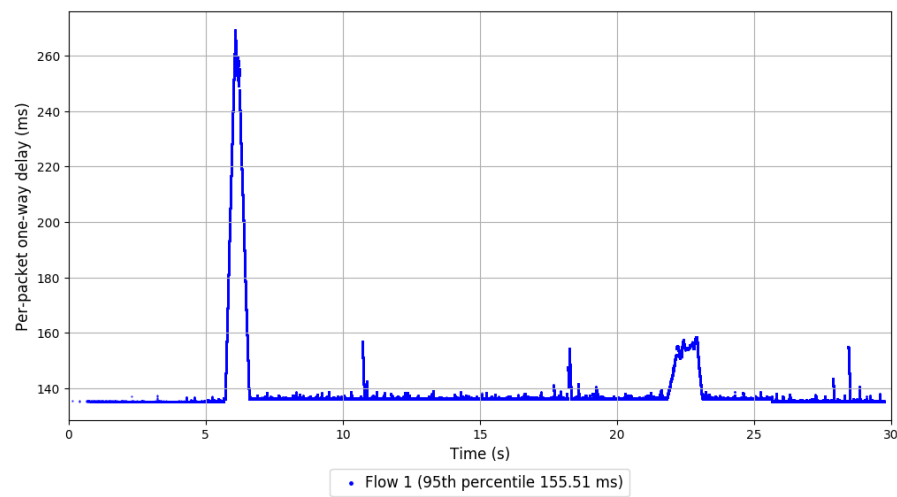
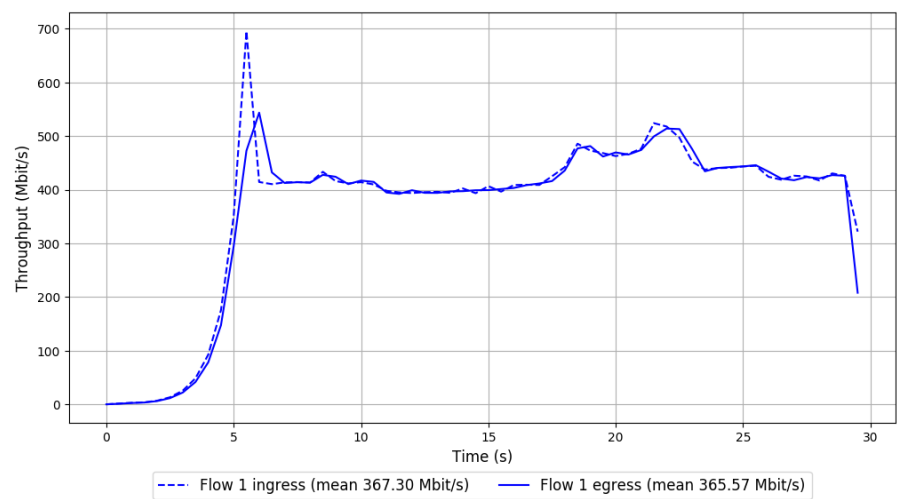
-- Flow 1:

Average throughput: 365.57 Mbit/s

95th percentile per-packet one-way delay: 155.513 ms

Loss rate: 1.38%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 17:15:41

End at: 2018-02-16 17:16:11

Below is generated by plot.py at 2018-02-16 21:11:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.11 Mbit/s

95th percentile per-packet one-way delay: 211.508 ms

Loss rate: 1.24%

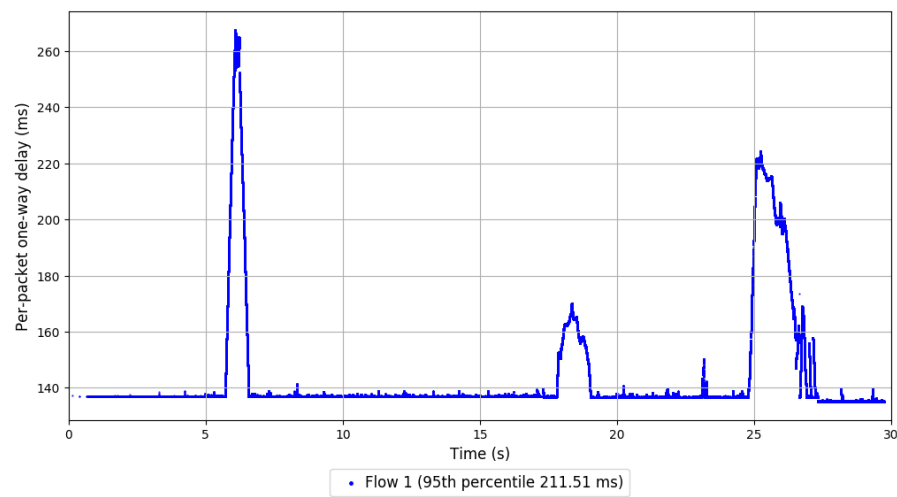
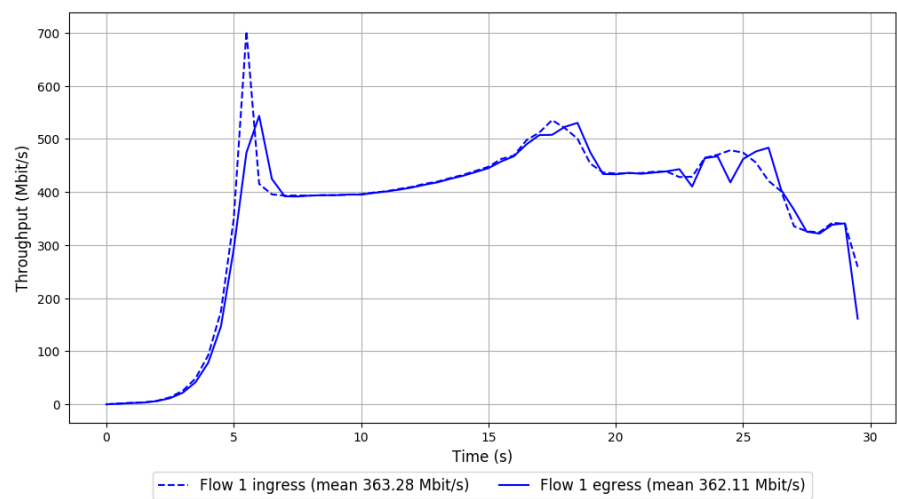
-- Flow 1:

Average throughput: 362.11 Mbit/s

95th percentile per-packet one-way delay: 211.508 ms

Loss rate: 1.24%

Run 10: Report of Vivace-latency — Data Link

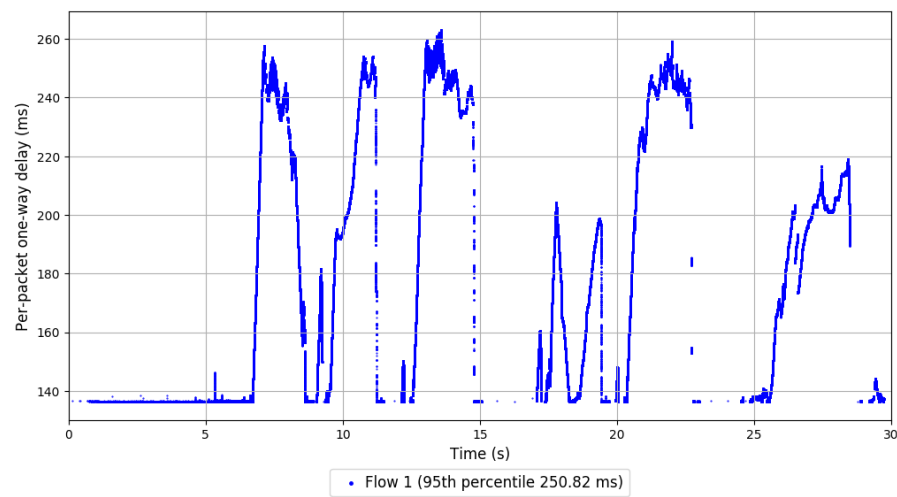
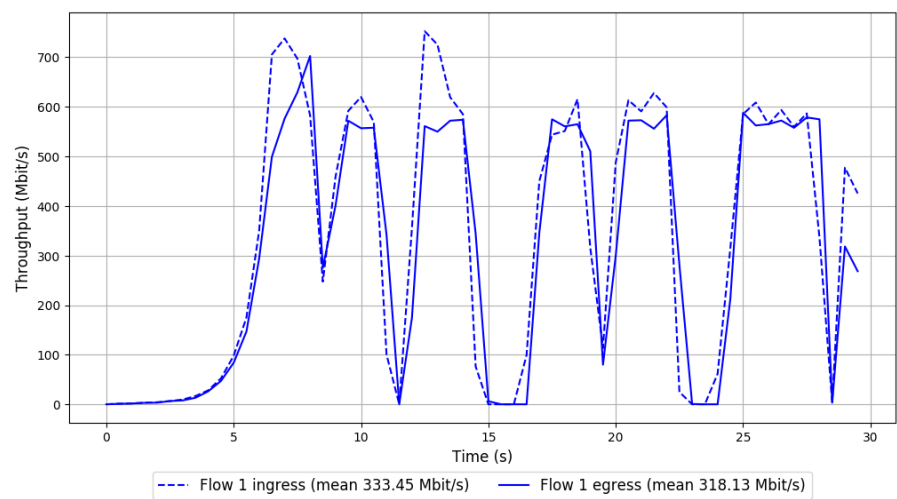


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 14:52:17
End at: 2018-02-16 14:52:47

# Below is generated by plot.py at 2018-02-16 21:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.13 Mbit/s
95th percentile per-packet one-way delay: 250.817 ms
Loss rate: 5.48%
-- Flow 1:
Average throughput: 318.13 Mbit/s
95th percentile per-packet one-way delay: 250.817 ms
Loss rate: 5.48%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 15:08:39

End at: 2018-02-16 15:09:09

Below is generated by plot.py at 2018-02-16 21:13:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.72 Mbit/s

95th percentile per-packet one-way delay: 257.311 ms

Loss rate: 2.62%

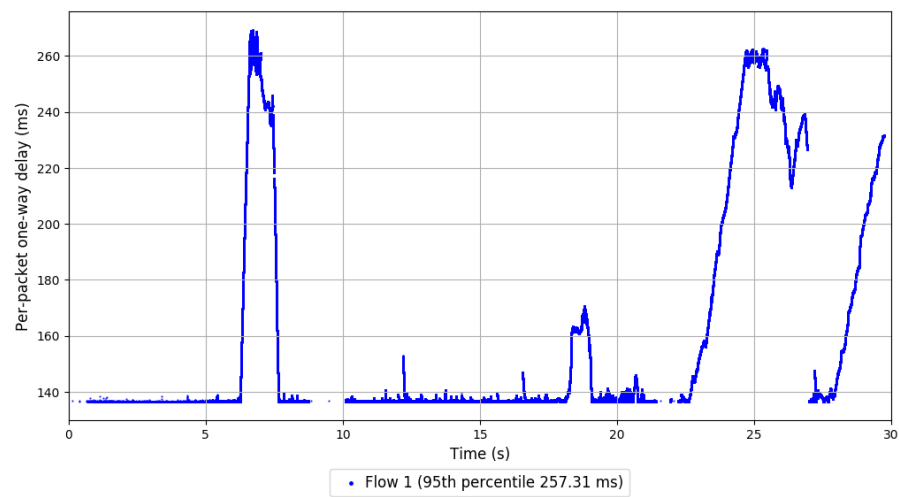
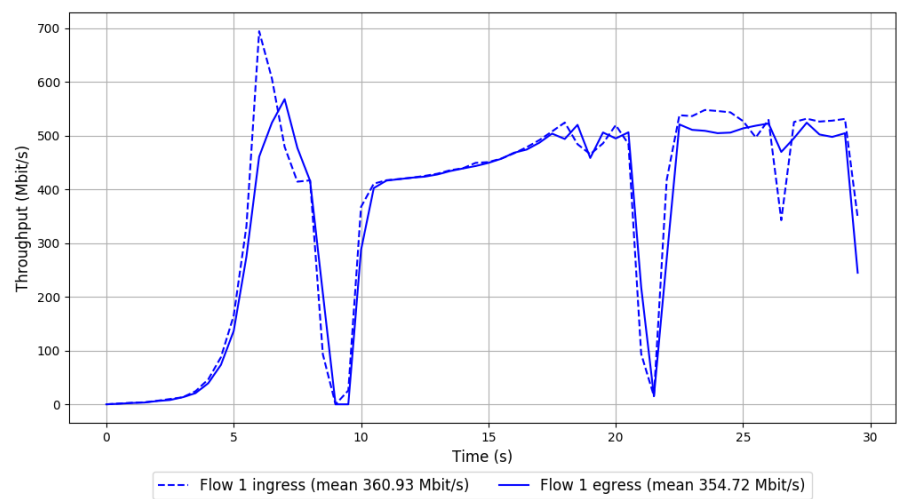
-- Flow 1:

Average throughput: 354.72 Mbit/s

95th percentile per-packet one-way delay: 257.311 ms

Loss rate: 2.62%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 15:24:50

End at: 2018-02-16 15:25:20

Below is generated by plot.py at 2018-02-16 21:13:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.32 Mbit/s

95th percentile per-packet one-way delay: 258.458 ms

Loss rate: 7.10%

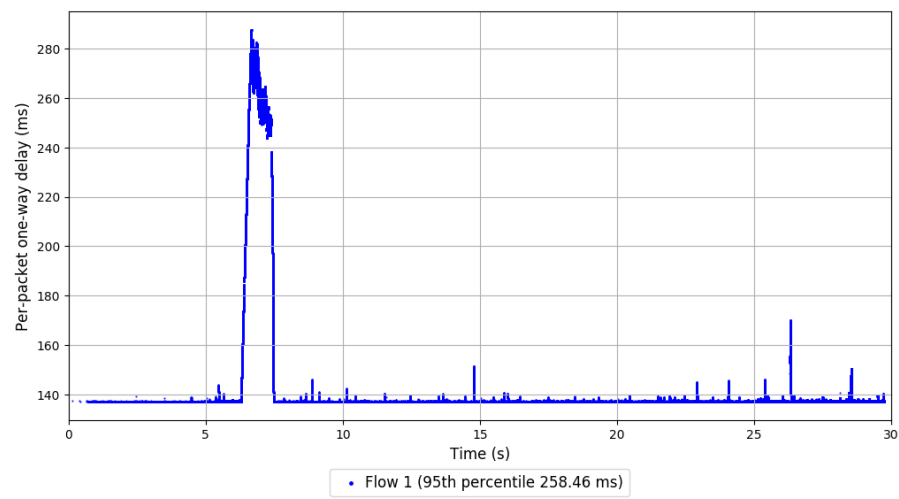
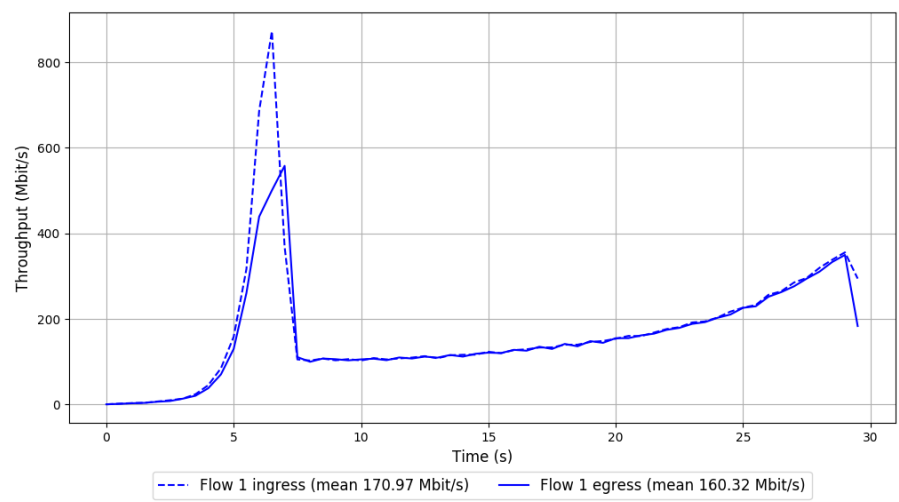
-- Flow 1:

Average throughput: 160.32 Mbit/s

95th percentile per-packet one-way delay: 258.458 ms

Loss rate: 7.10%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 15:40:58

End at: 2018-02-16 15:41:28

Below is generated by plot.py at 2018-02-16 21:15:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.47 Mbit/s

95th percentile per-packet one-way delay: 258.155 ms

Loss rate: 4.90%

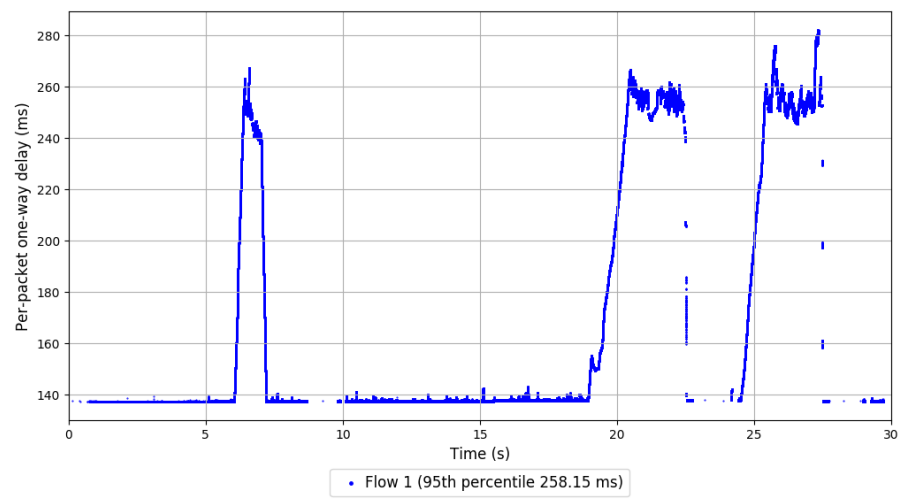
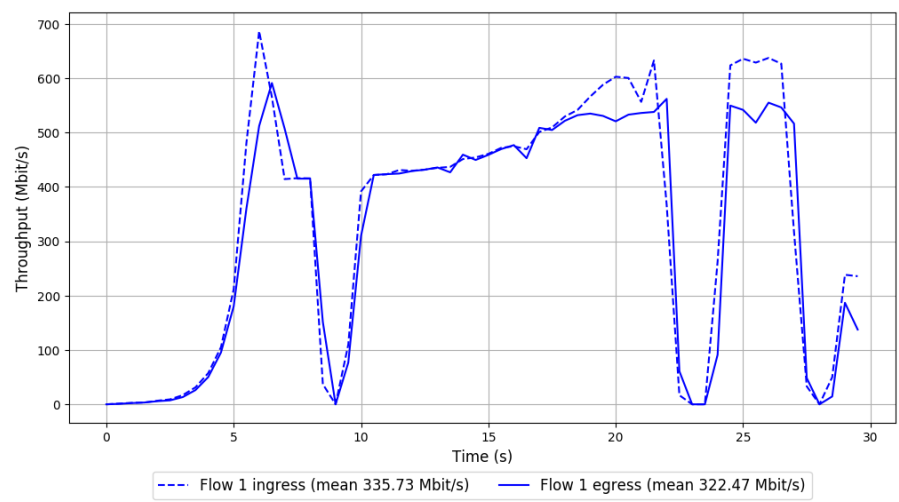
-- Flow 1:

Average throughput: 322.47 Mbit/s

95th percentile per-packet one-way delay: 258.155 ms

Loss rate: 4.90%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-16 15:57:22

End at: 2018-02-16 15:57:52

Below is generated by plot.py at 2018-02-16 21:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.39 Mbit/s

95th percentile per-packet one-way delay: 258.715 ms

Loss rate: 3.95%

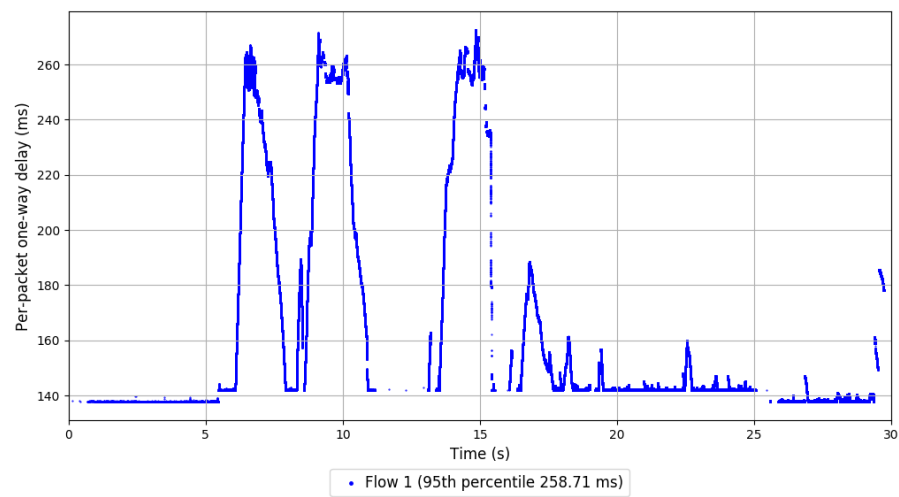
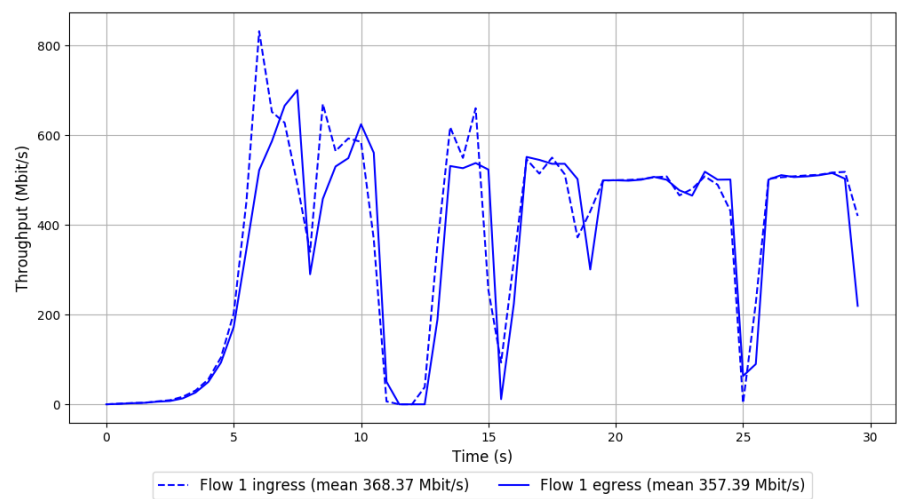
-- Flow 1:

Average throughput: 357.39 Mbit/s

95th percentile per-packet one-way delay: 258.715 ms

Loss rate: 3.95%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-16 16:14:00

End at: 2018-02-16 16:14:30

Below is generated by plot.py at 2018-02-16 21:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.32 Mbit/s

95th percentile per-packet one-way delay: 253.373 ms

Loss rate: 3.74%

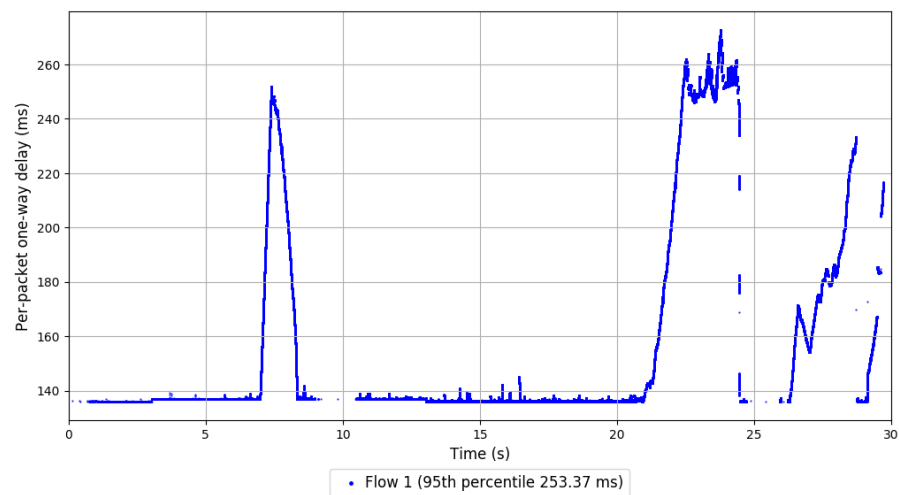
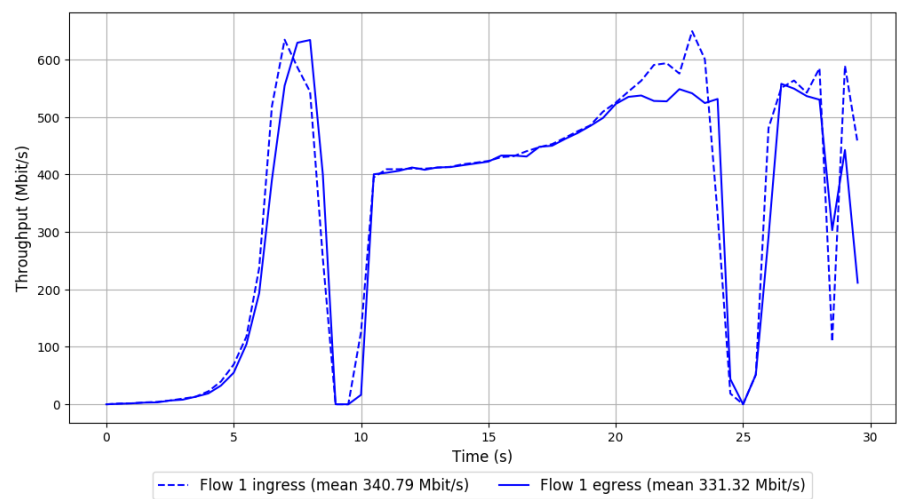
-- Flow 1:

Average throughput: 331.32 Mbit/s

95th percentile per-packet one-way delay: 253.373 ms

Loss rate: 3.74%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-16 16:30:04

End at: 2018-02-16 16:30:34

Below is generated by plot.py at 2018-02-16 21:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.32 Mbit/s

95th percentile per-packet one-way delay: 258.695 ms

Loss rate: 4.68%

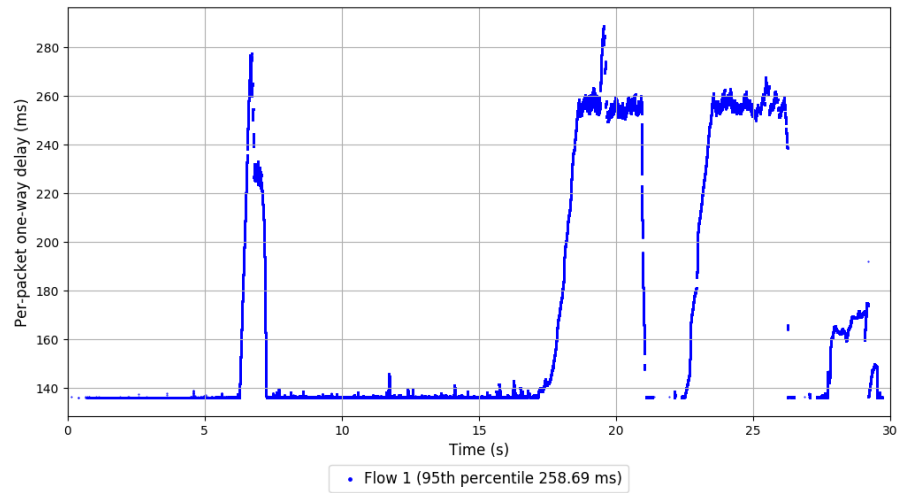
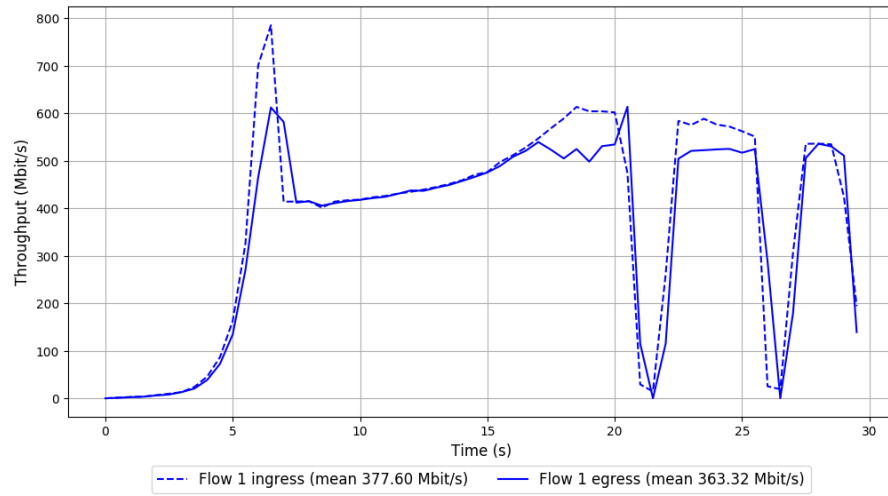
-- Flow 1:

Average throughput: 363.32 Mbit/s

95th percentile per-packet one-way delay: 258.695 ms

Loss rate: 4.68%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-16 16:46:24

End at: 2018-02-16 16:46:54

Below is generated by plot.py at 2018-02-16 21:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.98 Mbit/s

95th percentile per-packet one-way delay: 270.773 ms

Loss rate: 4.32%

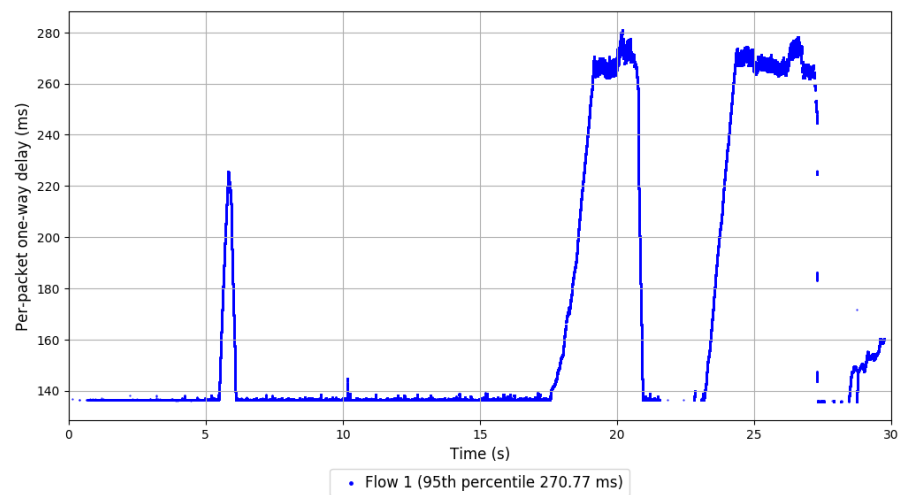
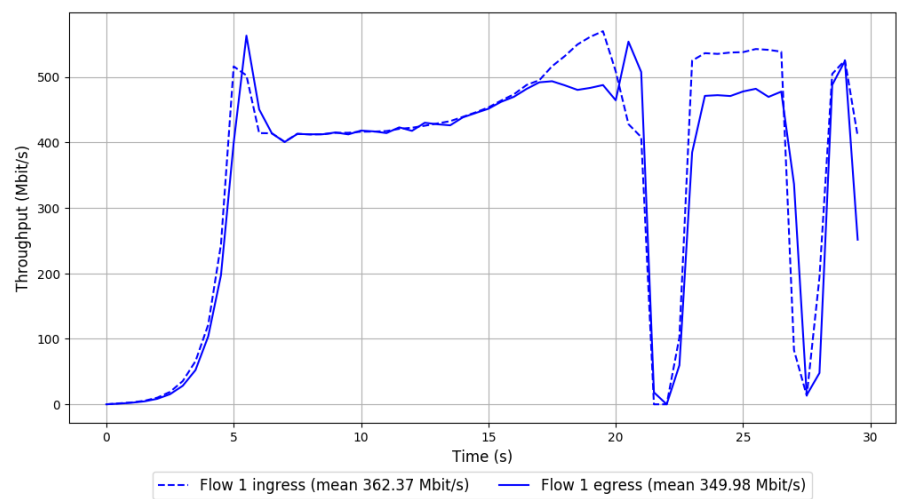
-- Flow 1:

Average throughput: 349.98 Mbit/s

95th percentile per-packet one-way delay: 270.773 ms

Loss rate: 4.32%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 17:02:28

End at: 2018-02-16 17:02:58

Below is generated by plot.py at 2018-02-16 21:18:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.48 Mbit/s

95th percentile per-packet one-way delay: 253.774 ms

Loss rate: 4.42%

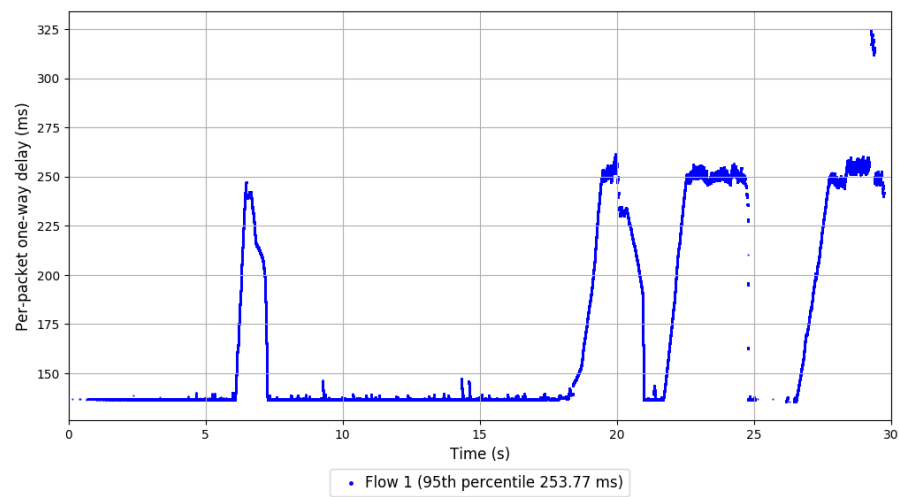
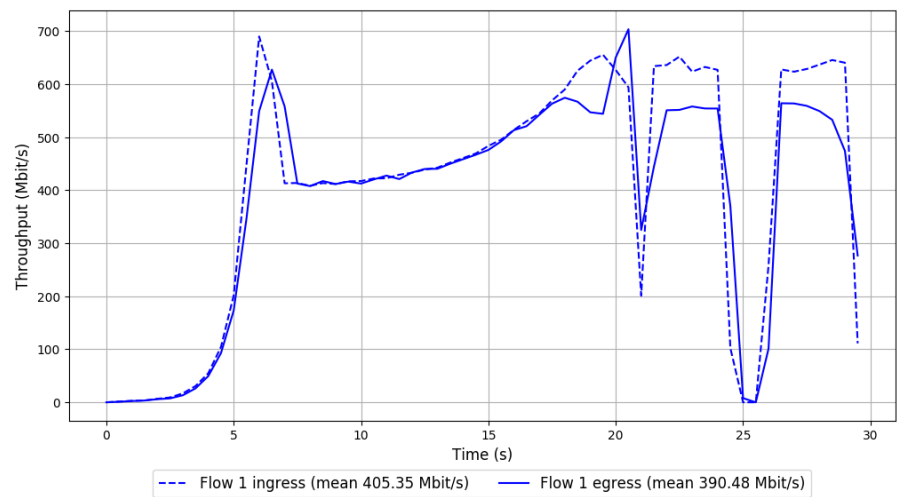
-- Flow 1:

Average throughput: 390.48 Mbit/s

95th percentile per-packet one-way delay: 253.774 ms

Loss rate: 4.42%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 17:18:31

End at: 2018-02-16 17:19:01

Below is generated by plot.py at 2018-02-16 21:18:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.17 Mbit/s

95th percentile per-packet one-way delay: 256.585 ms

Loss rate: 9.43%

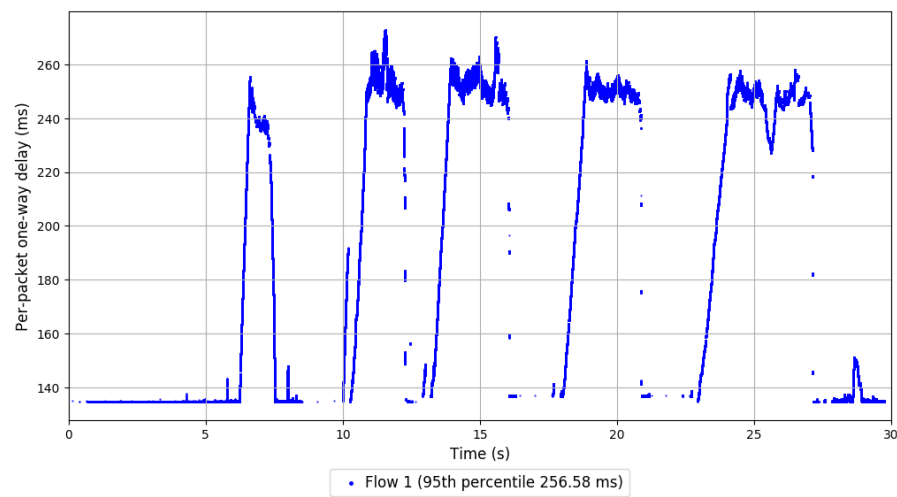
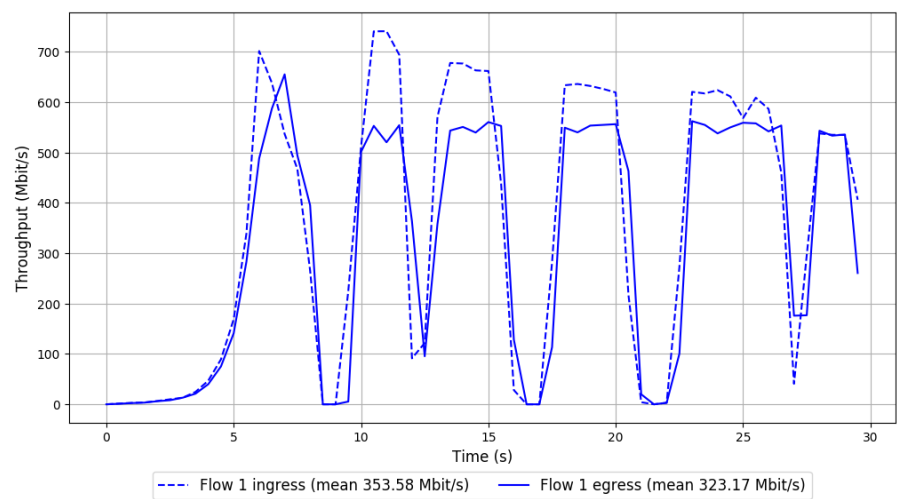
-- Flow 1:

Average throughput: 323.17 Mbit/s

95th percentile per-packet one-way delay: 256.585 ms

Loss rate: 9.43%

Run 10: Report of Vivace-loss — Data Link

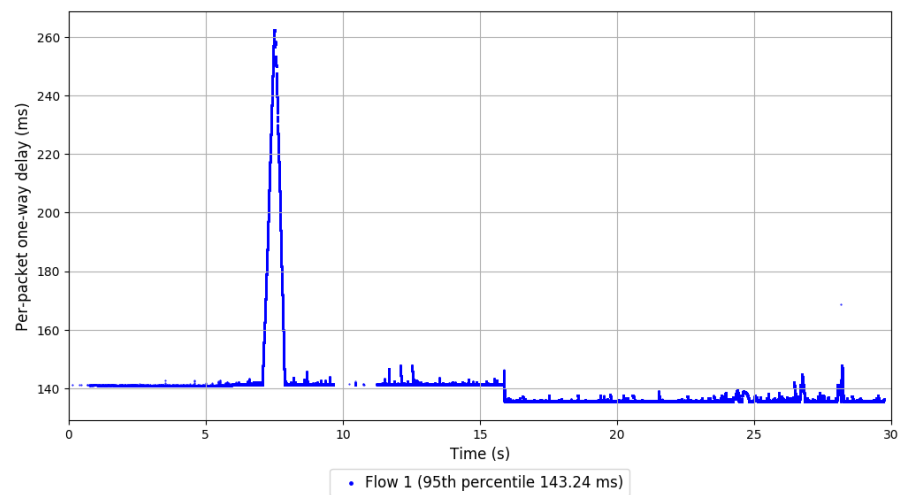
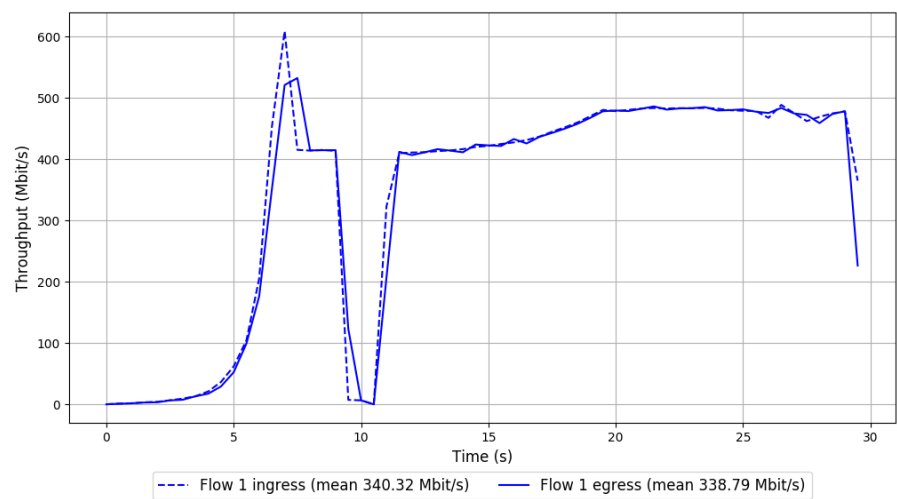


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 14:38:07
End at: 2018-02-16 14:38:37

# Below is generated by plot.py at 2018-02-16 21:19:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.79 Mbit/s
95th percentile per-packet one-way delay: 143.238 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 338.79 Mbit/s
95th percentile per-packet one-way delay: 143.238 ms
Loss rate: 1.39%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 14:54:25

End at: 2018-02-16 14:54:55

Below is generated by plot.py at 2018-02-16 21:22:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.25 Mbit/s

95th percentile per-packet one-way delay: 144.729 ms

Loss rate: 1.61%

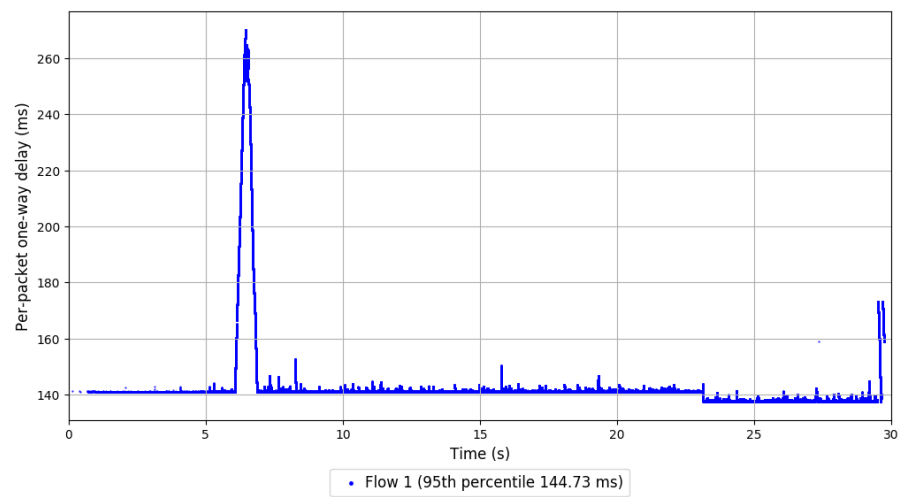
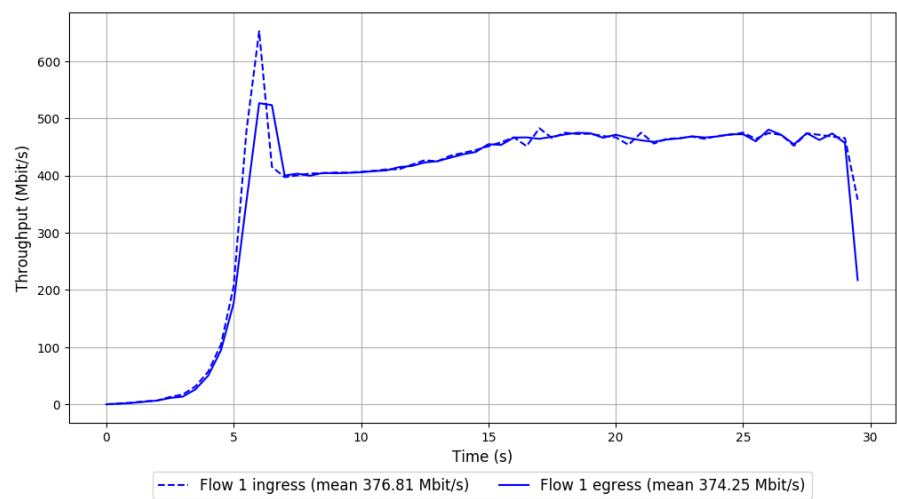
-- Flow 1:

Average throughput: 374.25 Mbit/s

95th percentile per-packet one-way delay: 144.729 ms

Loss rate: 1.61%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 15:10:47

End at: 2018-02-16 15:11:17

Below is generated by plot.py at 2018-02-16 21:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.02 Mbit/s

95th percentile per-packet one-way delay: 190.910 ms

Loss rate: 1.43%

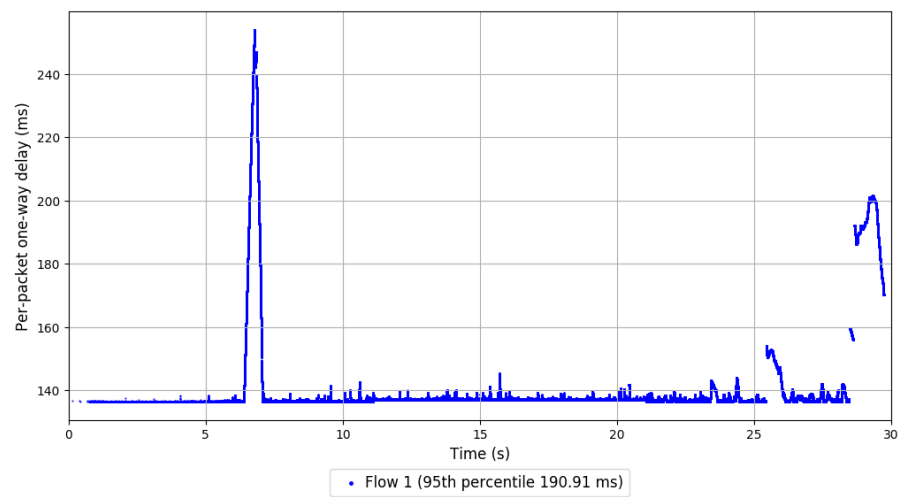
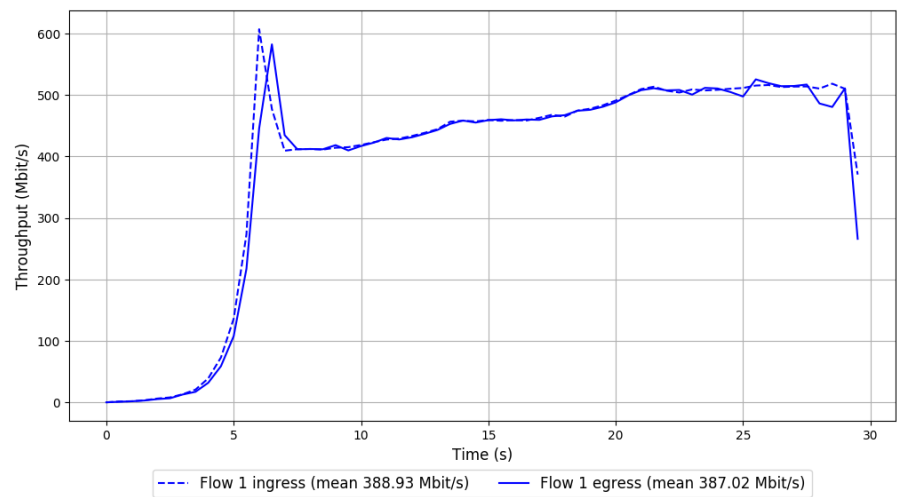
-- Flow 1:

Average throughput: 387.02 Mbit/s

95th percentile per-packet one-way delay: 190.910 ms

Loss rate: 1.43%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 15:26:46

End at: 2018-02-16 15:27:16

Below is generated by plot.py at 2018-02-16 21:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.77 Mbit/s

95th percentile per-packet one-way delay: 210.382 ms

Loss rate: 1.99%

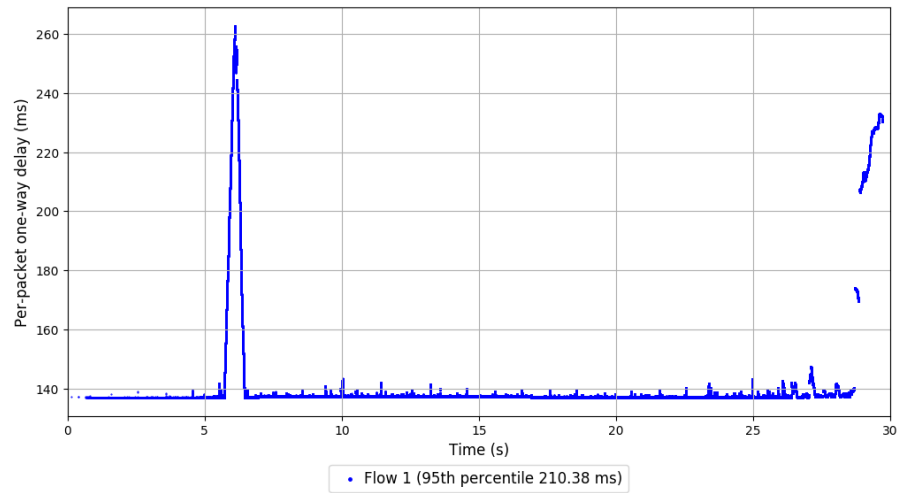
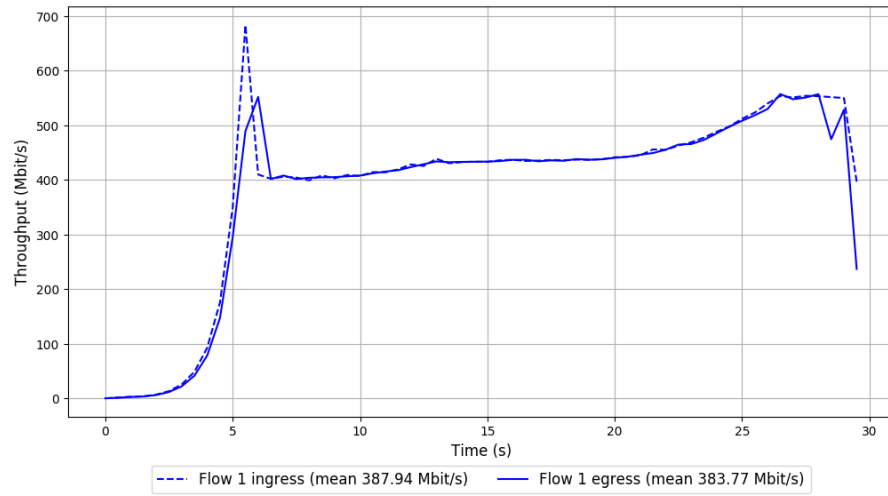
-- Flow 1:

Average throughput: 383.77 Mbit/s

95th percentile per-packet one-way delay: 210.382 ms

Loss rate: 1.99%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 15:43:01

End at: 2018-02-16 15:43:31

Below is generated by plot.py at 2018-02-16 21:24:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.07 Mbit/s

95th percentile per-packet one-way delay: 177.947 ms

Loss rate: 1.62%

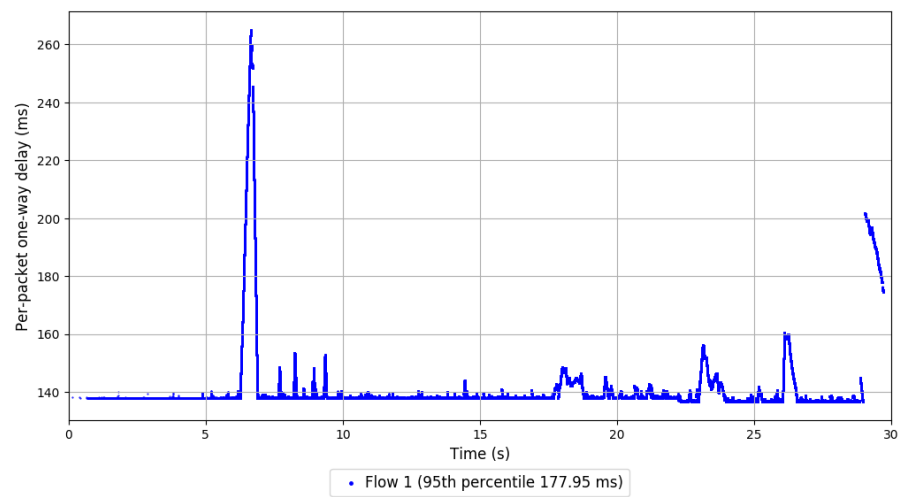
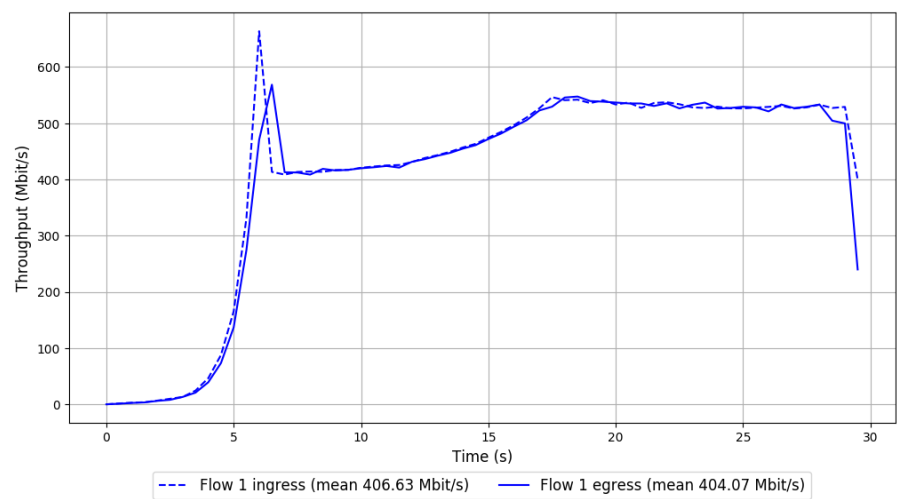
-- Flow 1:

Average throughput: 404.07 Mbit/s

95th percentile per-packet one-way delay: 177.947 ms

Loss rate: 1.62%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 15:59:31

End at: 2018-02-16 16:00:01

Below is generated by plot.py at 2018-02-16 21:24:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.41 Mbit/s

95th percentile per-packet one-way delay: 160.633 ms

Loss rate: 1.56%

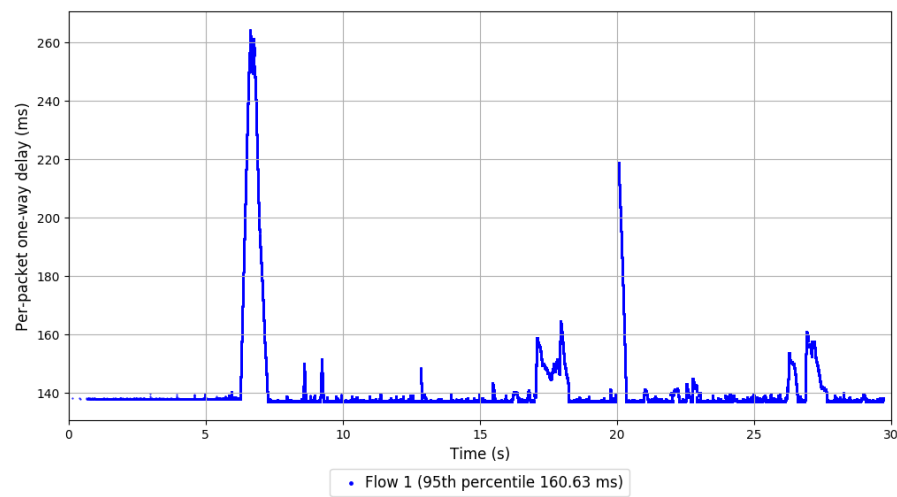
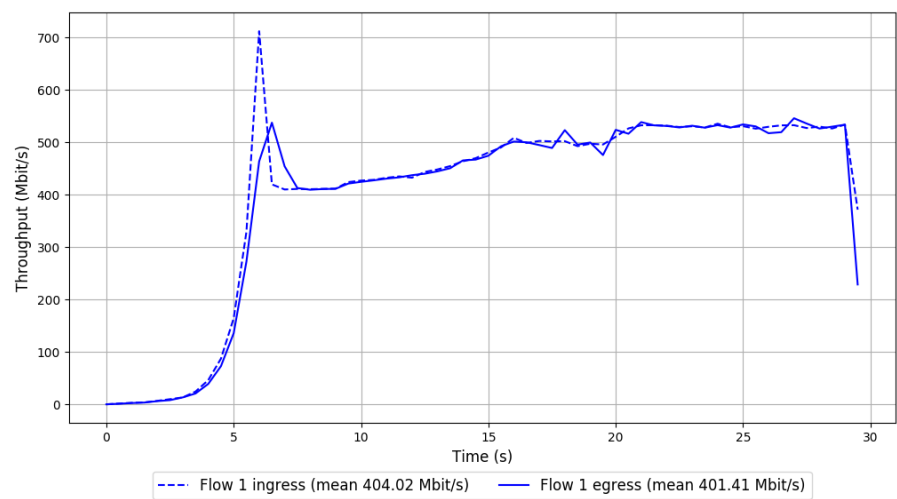
-- Flow 1:

Average throughput: 401.41 Mbit/s

95th percentile per-packet one-way delay: 160.633 ms

Loss rate: 1.56%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 16:16:04

End at: 2018-02-16 16:16:34

Below is generated by plot.py at 2018-02-16 21:24:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.92 Mbit/s

95th percentile per-packet one-way delay: 157.222 ms

Loss rate: 1.33%

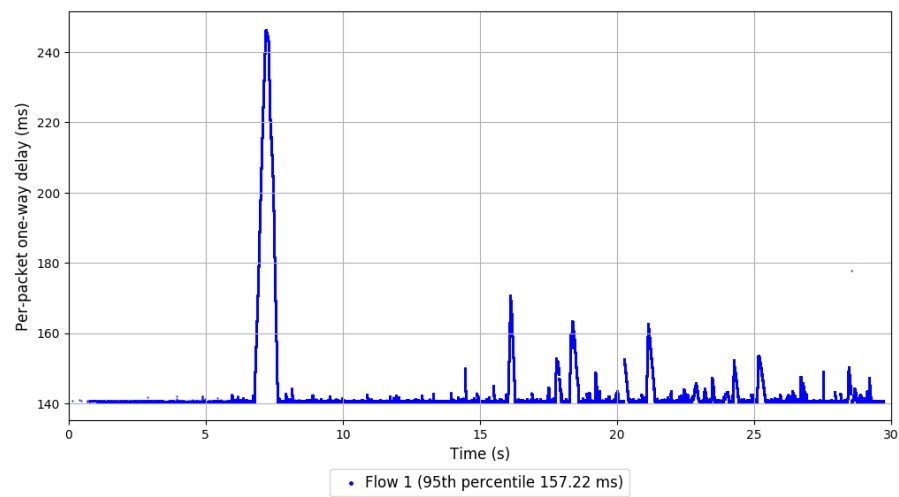
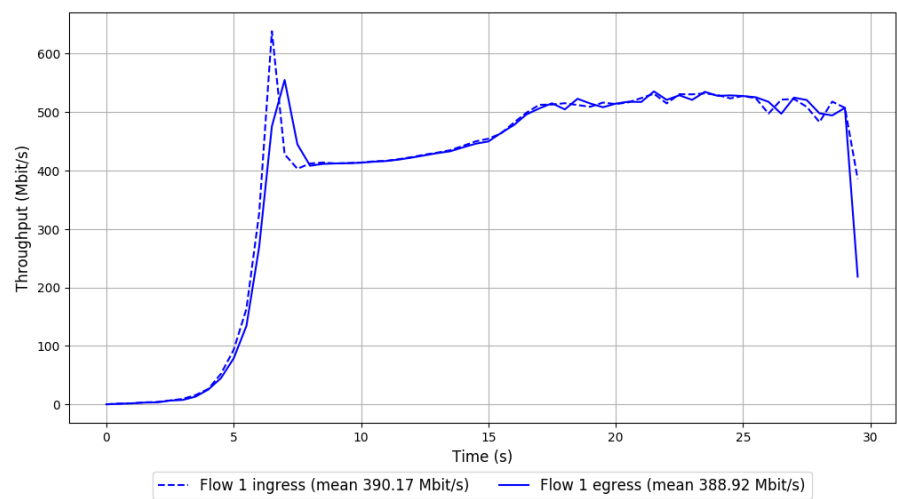
-- Flow 1:

Average throughput: 388.92 Mbit/s

95th percentile per-packet one-way delay: 157.222 ms

Loss rate: 1.33%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 16:32:07

End at: 2018-02-16 16:32:37

Below is generated by plot.py at 2018-02-16 21:24:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.98 Mbit/s

95th percentile per-packet one-way delay: 156.638 ms

Loss rate: 1.31%

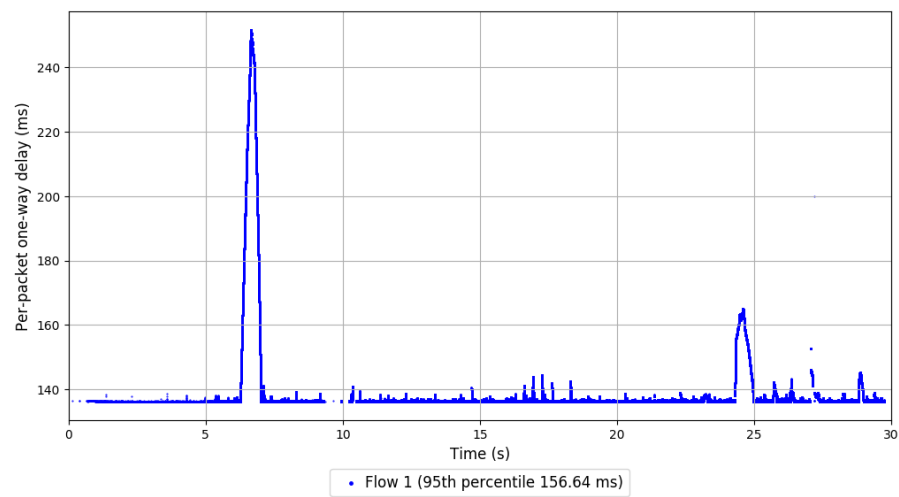
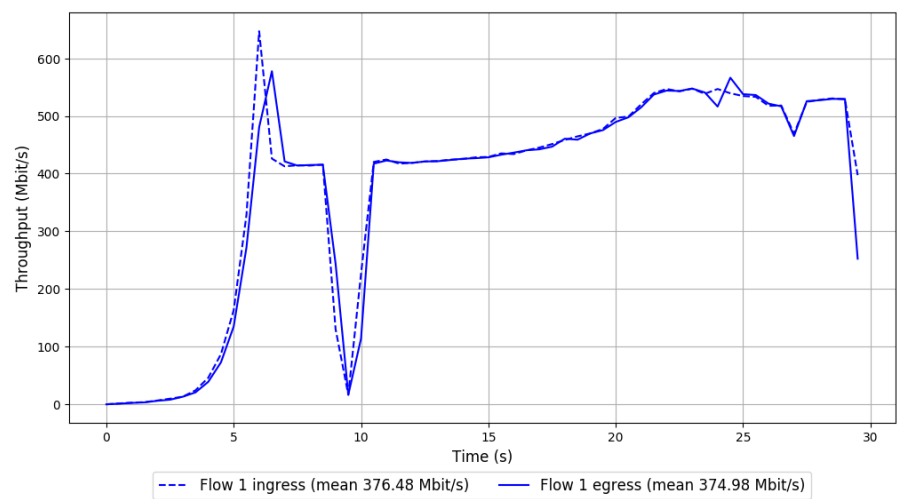
-- Flow 1:

Average throughput: 374.98 Mbit/s

95th percentile per-packet one-way delay: 156.638 ms

Loss rate: 1.31%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 16:48:32

End at: 2018-02-16 16:49:02

Below is generated by plot.py at 2018-02-16 21:24:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.75 Mbit/s

95th percentile per-packet one-way delay: 138.297 ms

Loss rate: 1.62%

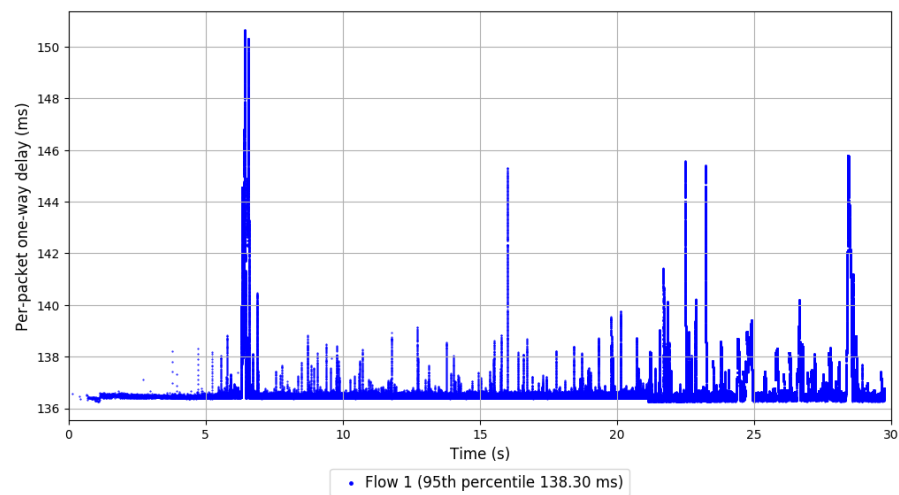
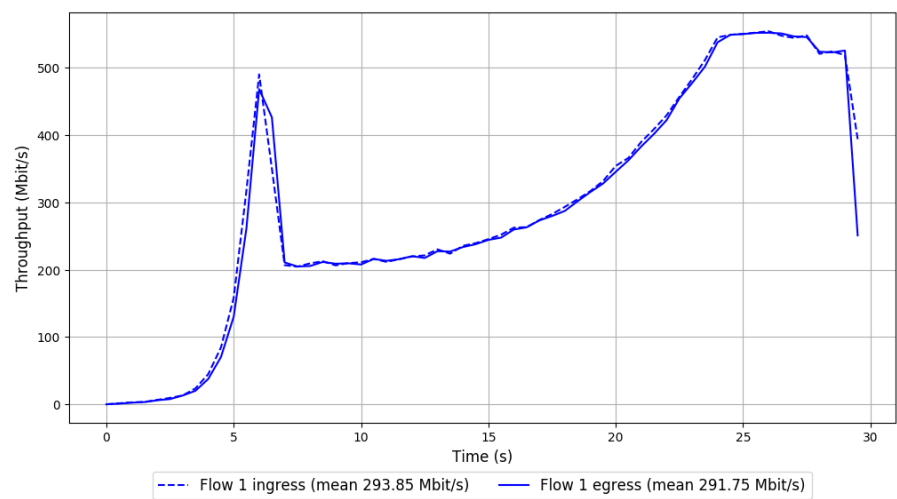
-- Flow 1:

Average throughput: 291.75 Mbit/s

95th percentile per-packet one-way delay: 138.297 ms

Loss rate: 1.62%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 17:04:39

End at: 2018-02-16 17:05:09

Below is generated by plot.py at 2018-02-16 21:24:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.44 Mbit/s

95th percentile per-packet one-way delay: 157.346 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 222.44 Mbit/s

95th percentile per-packet one-way delay: 157.346 ms

Loss rate: 2.33%

Run 10: Report of Vivace-LTE — Data Link

