

Pantheon Report

Generated at 2018-02-20 15:42:32 (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.

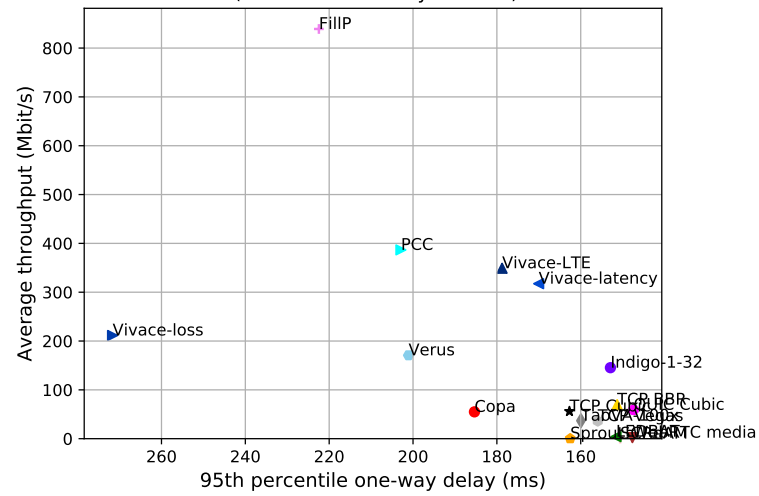
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

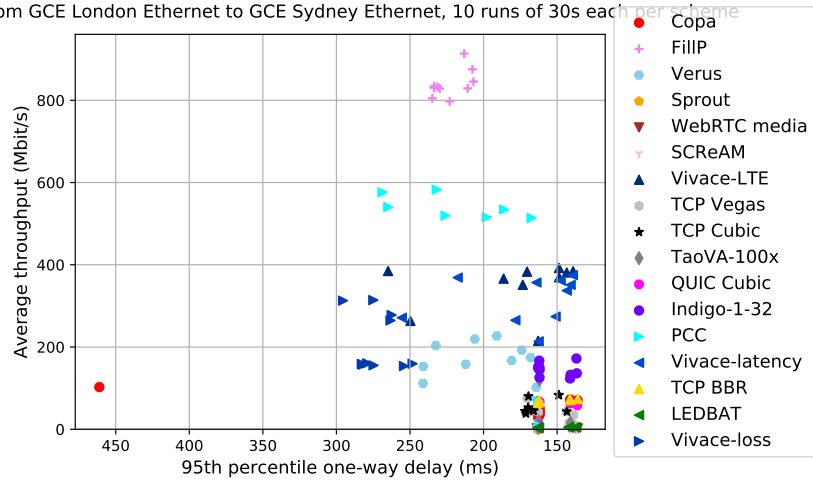
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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	69.79	151.31	0.96
TCP Cubic	10	55.93	162.69	1.46
LEDBAT	10	4.11	151.59	1.89
PCC	10	386.65	202.88	2.27
QUIC Cubic	10	59.17	147.39	1.24
SCReAM	10	0.21	150.60	0.85
WebRTC media	10	2.06	147.67	1.12
Sprout	10	0.29	162.51	0.98
TaoVA-100x	9	36.88	159.95	0.28
TCP Vegas	10	36.07	155.94	0.94
Verus	10	170.76	201.08	2.02
Copa	10	54.96	185.35	4.94
FillP	10	839.11	222.46	5.34
Indigo-1-32	10	145.42	152.91	0.89
Vivace-latency	10	317.45	170.04	1.73
Vivace-loss	10	211.41	271.67	7.57
Vivace-LTE	10	349.13	178.75	1.72

Run 1: Statistics of TCP BBR

Start at: 2018-02-20 09:19:12

End at: 2018-02-20 09:19:42

Below is generated by plot.py at 2018-02-20 14:38:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 162.156 ms

Loss rate: 0.02%

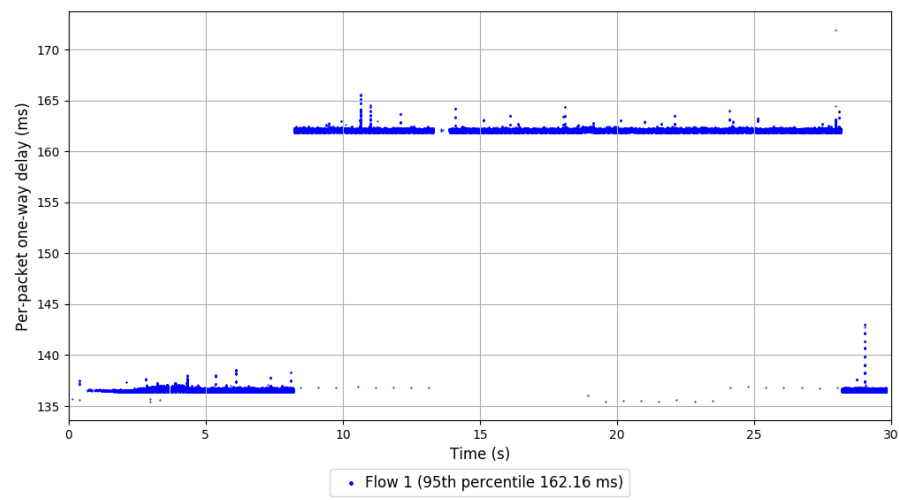
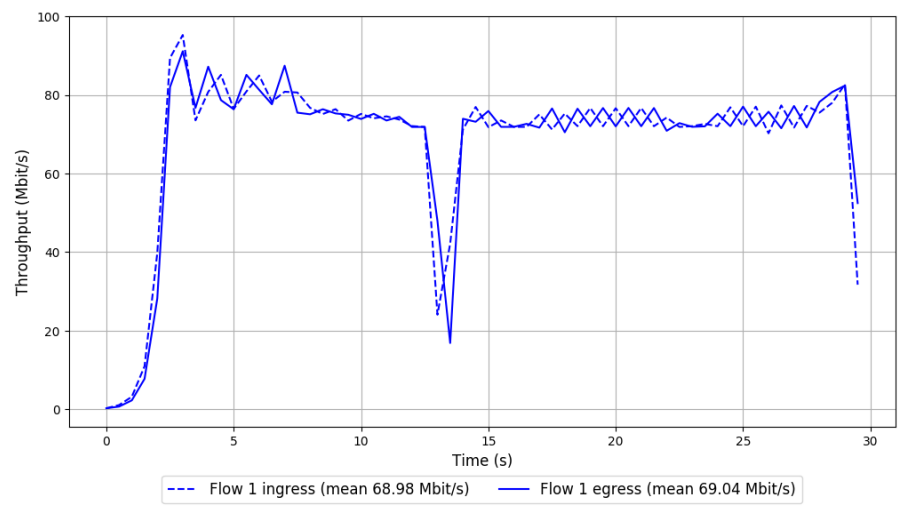
-- Flow 1:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 162.156 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-20 09:34:50

End at: 2018-02-20 09:35:20

Below is generated by plot.py at 2018-02-20 14:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.51 Mbit/s

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

Loss rate: 1.08%

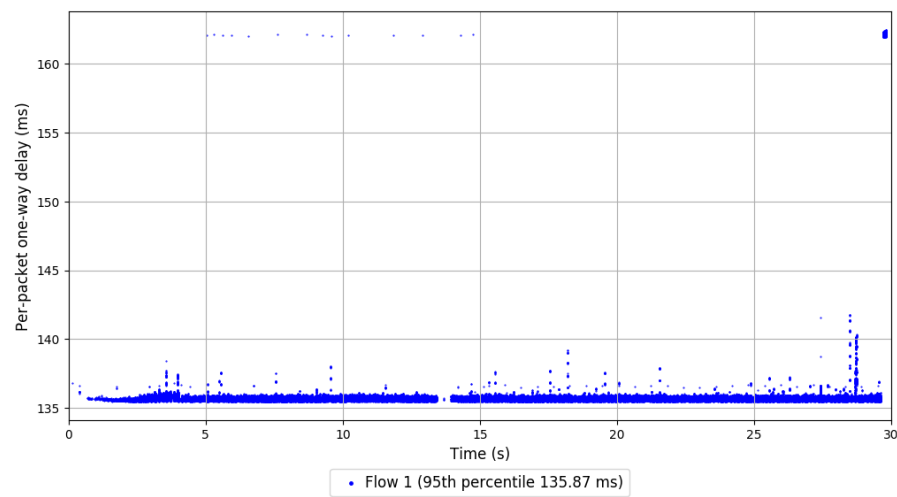
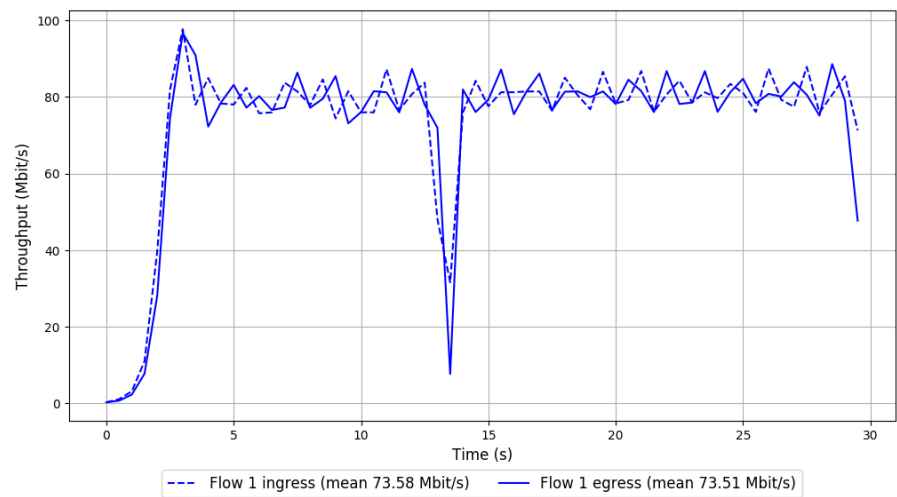
-- Flow 1:

Average throughput: 73.51 Mbit/s

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

Loss rate: 1.08%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-20 09:50:12

End at: 2018-02-20 09:50:42

Below is generated by plot.py at 2018-02-20 14:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 162.257 ms

Loss rate: 1.13%

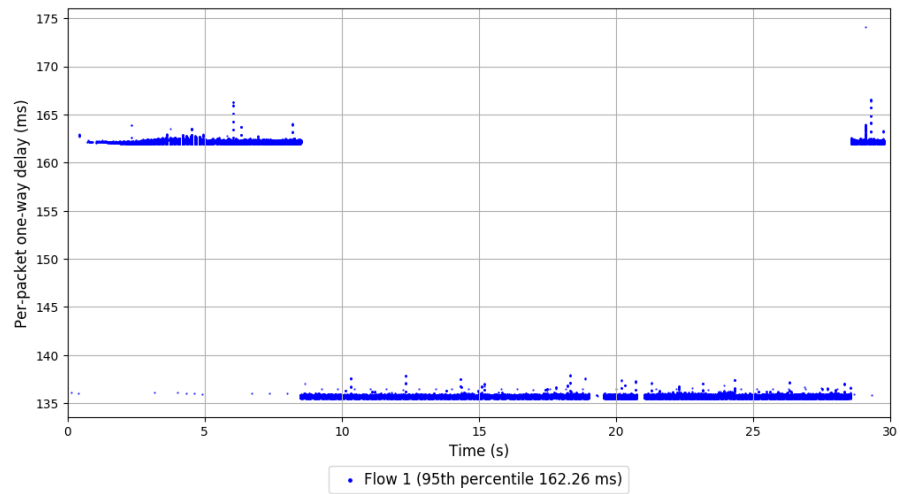
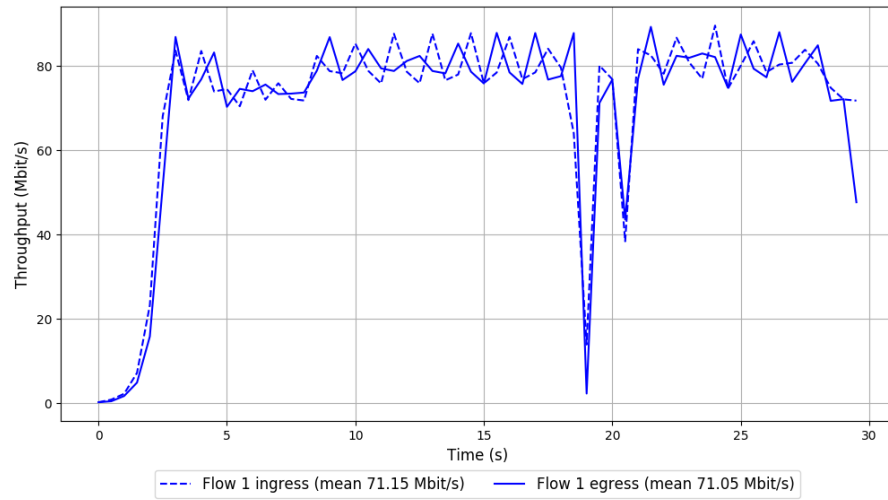
-- Flow 1:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 162.257 ms

Loss rate: 1.13%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-20 10:05:33

End at: 2018-02-20 10:06:03

Below is generated by plot.py at 2018-02-20 14:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.18 Mbit/s

95th percentile per-packet one-way delay: 141.192 ms

Loss rate: 1.01%

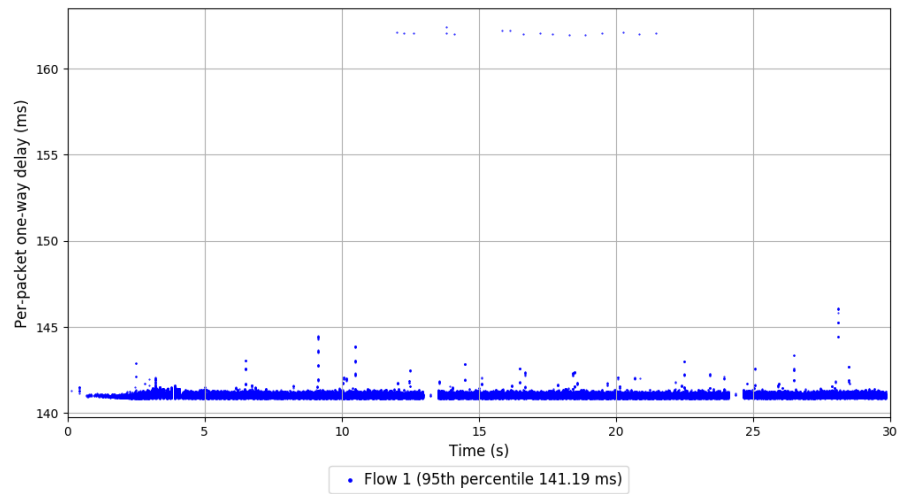
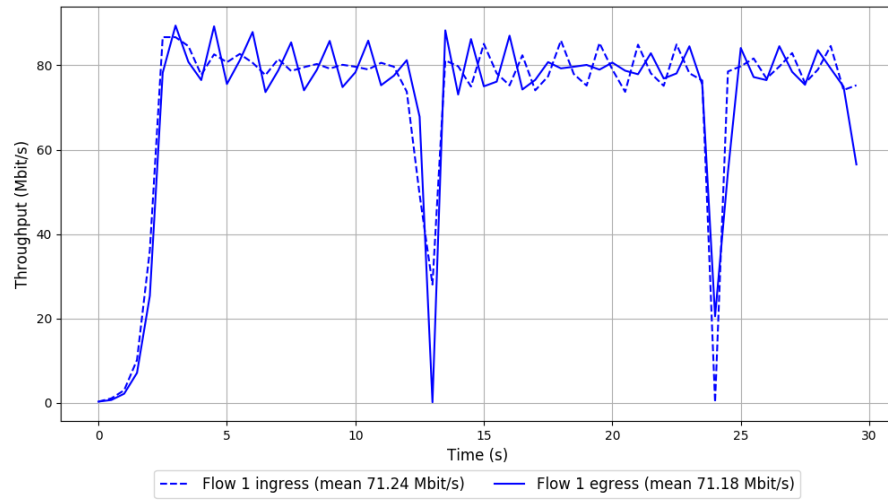
-- Flow 1:

Average throughput: 71.18 Mbit/s

95th percentile per-packet one-way delay: 141.192 ms

Loss rate: 1.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-20 10:21:09

End at: 2018-02-20 10:21:39

Below is generated by plot.py at 2018-02-20 14:38:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.46 Mbit/s

95th percentile per-packet one-way delay: 141.138 ms

Loss rate: 1.12%

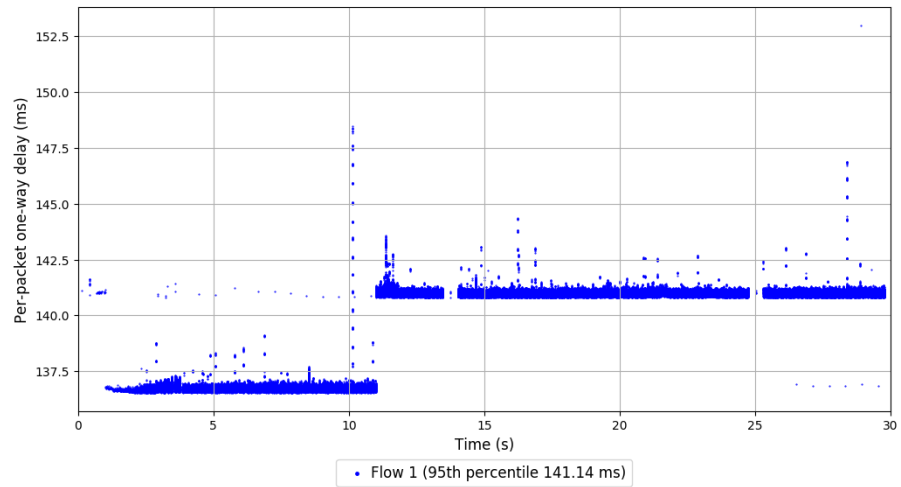
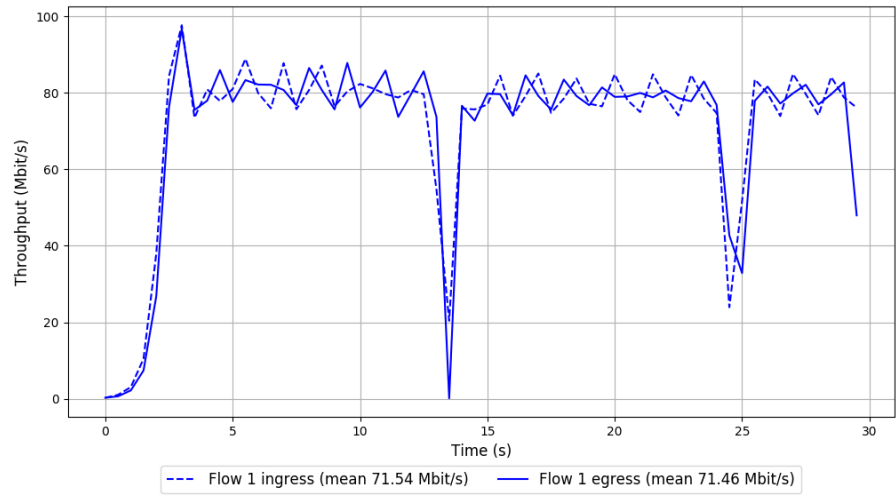
-- Flow 1:

Average throughput: 71.46 Mbit/s

95th percentile per-packet one-way delay: 141.138 ms

Loss rate: 1.12%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-20 10:37:06

End at: 2018-02-20 10:37:36

Below is generated by plot.py at 2018-02-20 14:38:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 141.314 ms

Loss rate: 1.00%

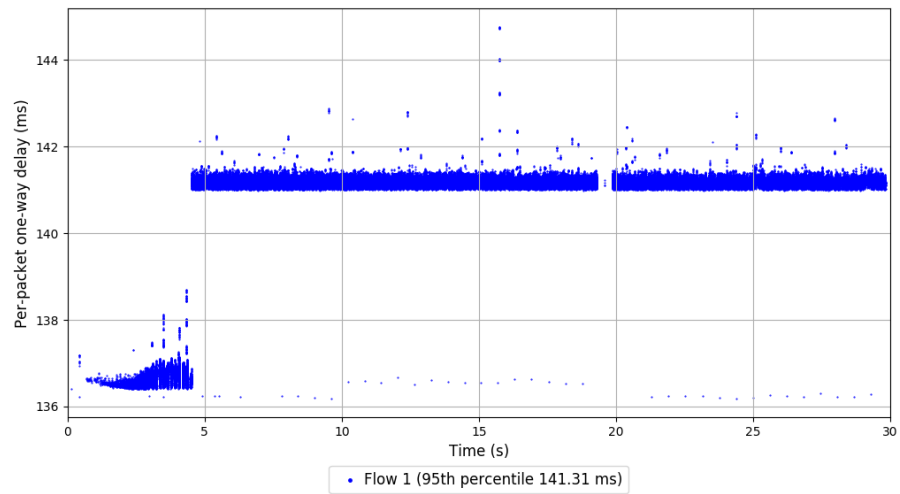
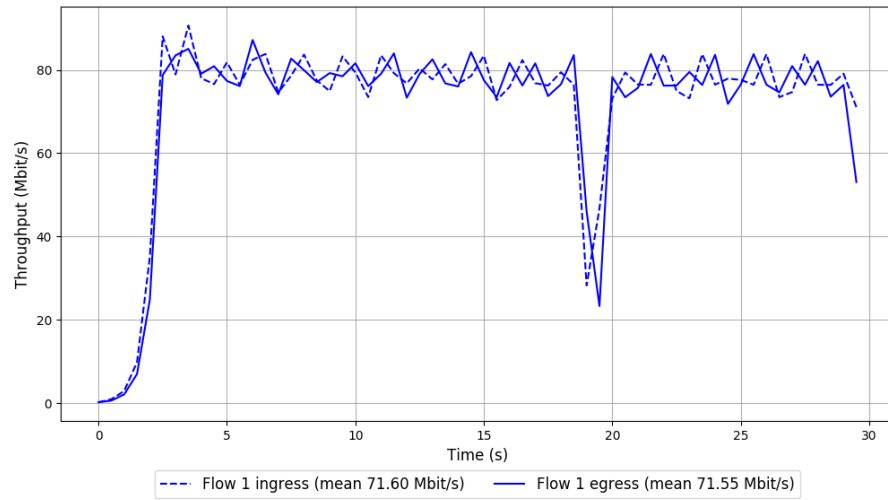
-- Flow 1:

Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 141.314 ms

Loss rate: 1.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-20 10:52:56

End at: 2018-02-20 10:53:26

Below is generated by plot.py at 2018-02-20 14:38:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.29 Mbit/s

95th percentile per-packet one-way delay: 141.247 ms

Loss rate: 0.97%

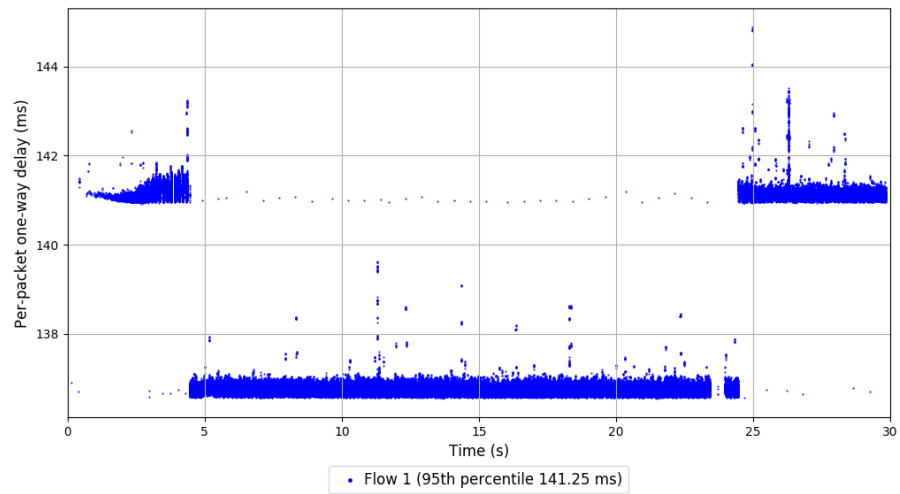
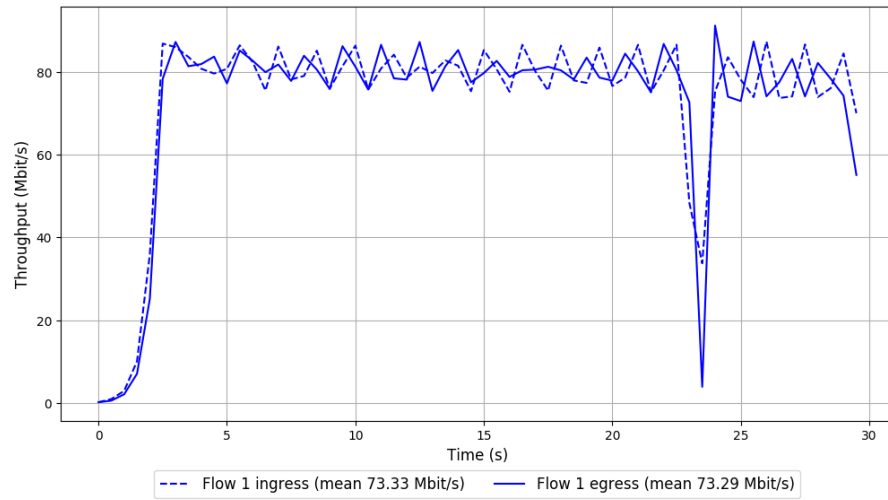
-- Flow 1:

Average throughput: 73.29 Mbit/s

95th percentile per-packet one-way delay: 141.247 ms

Loss rate: 0.97%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-20 11:08:58

End at: 2018-02-20 11:09:28

Below is generated by plot.py at 2018-02-20 14:38:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 162.078 ms

Loss rate: 1.08%

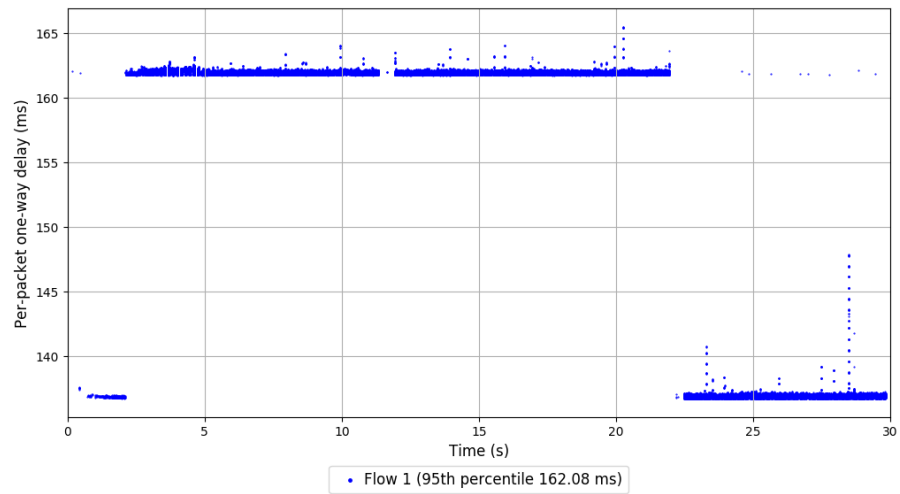
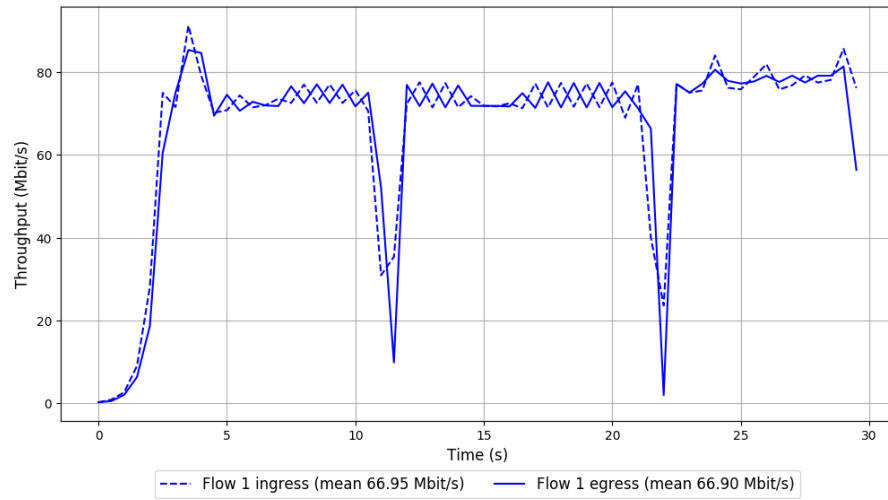
-- Flow 1:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 162.078 ms

Loss rate: 1.08%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-20 11:24:31

End at: 2018-02-20 11:25:01

Below is generated by plot.py at 2018-02-20 14:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.69 Mbit/s

95th percentile per-packet one-way delay: 162.864 ms

Loss rate: 1.10%

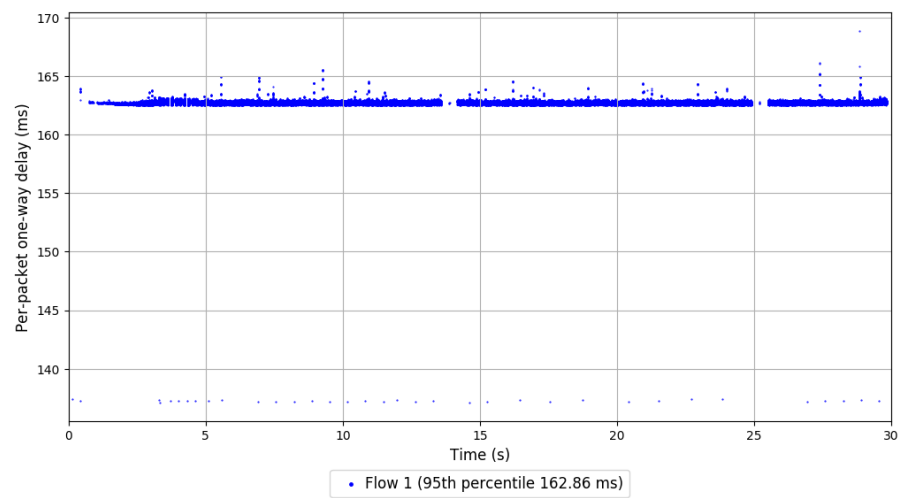
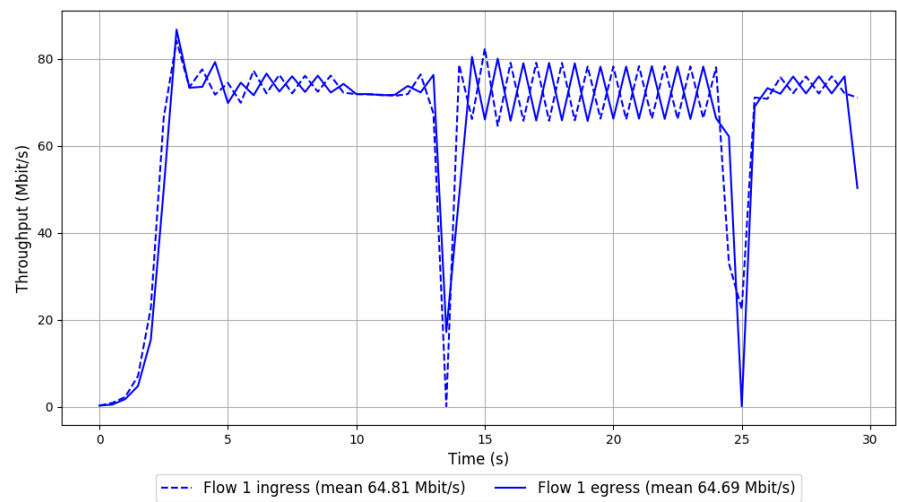
-- Flow 1:

Average throughput: 64.69 Mbit/s

95th percentile per-packet one-way delay: 162.864 ms

Loss rate: 1.10%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-20 11:39:55

End at: 2018-02-20 11:40:25

Below is generated by plot.py at 2018-02-20 14:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 163.017 ms

Loss rate: 1.09%

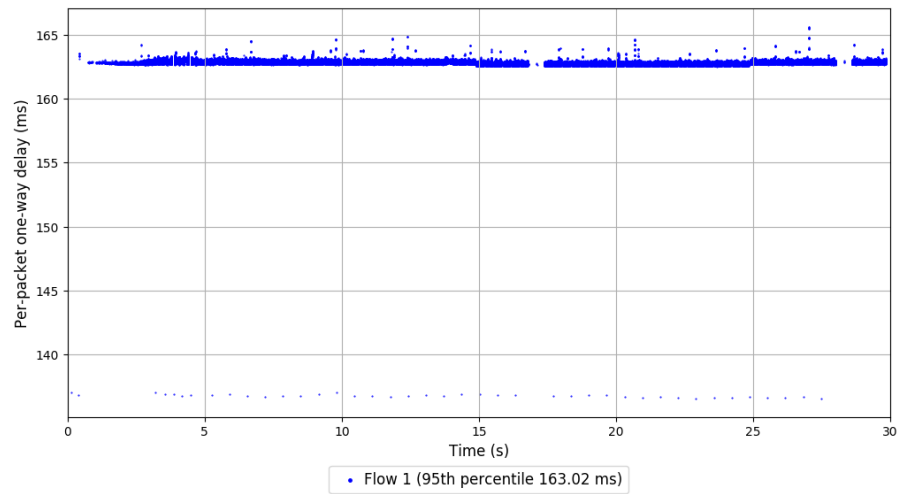
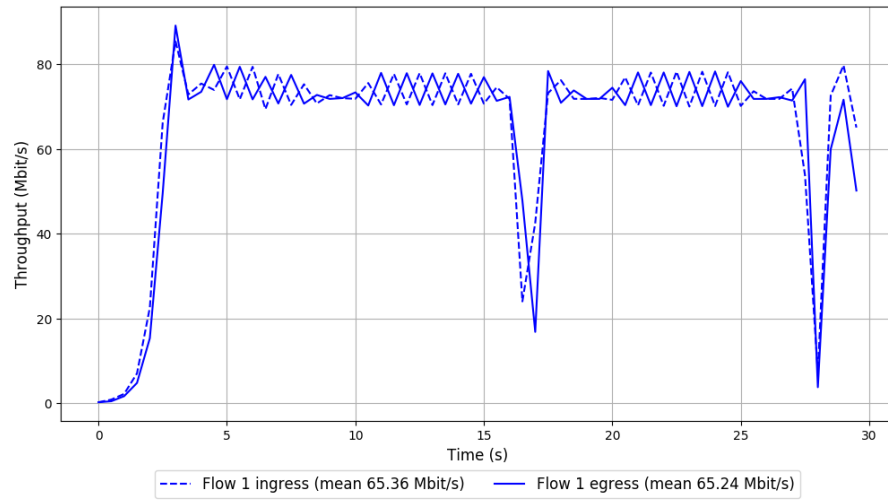
-- Flow 1:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 163.017 ms

Loss rate: 1.09%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-20 09:19:58

End at: 2018-02-20 09:20:28

Below is generated by plot.py at 2018-02-20 14:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 171.269 ms

Loss rate: 2.06%

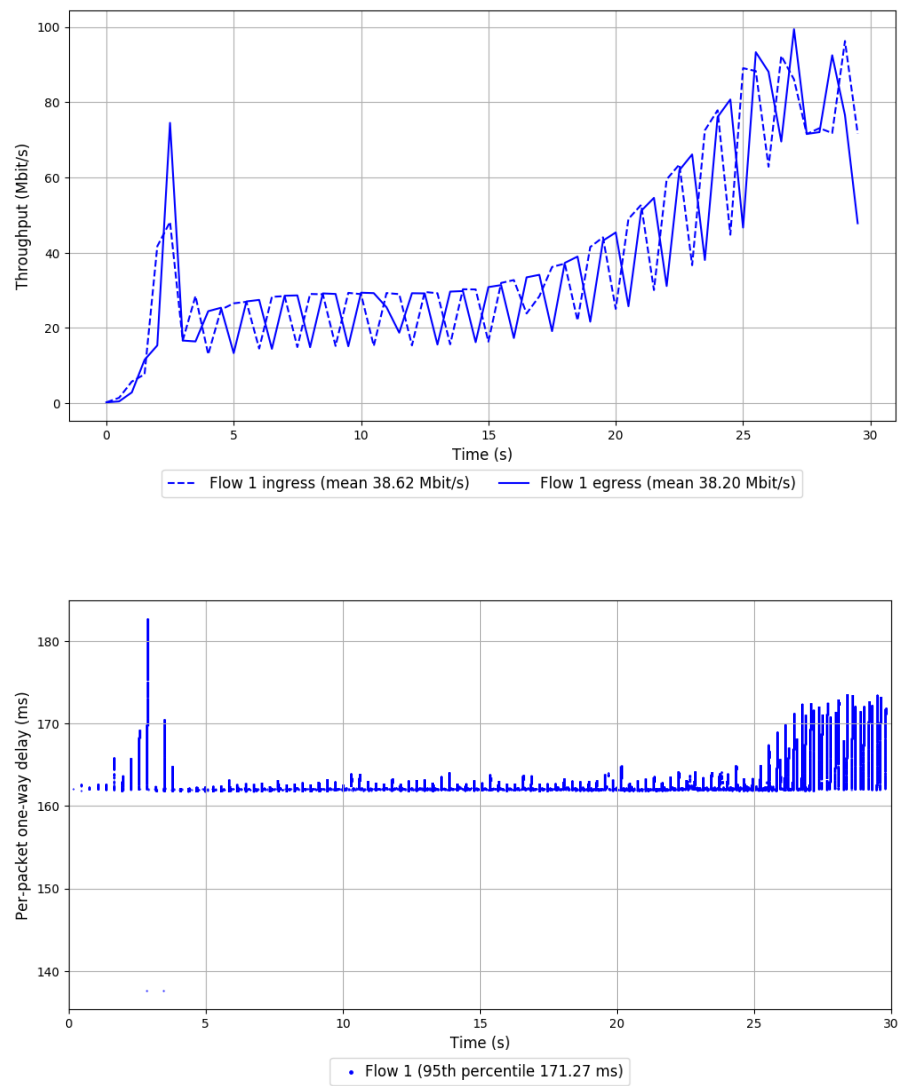
-- Flow 1:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 171.269 ms

Loss rate: 2.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-20 09:35:37

End at: 2018-02-20 09:36:07

Below is generated by plot.py at 2018-02-20 14:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.95 Mbit/s

95th percentile per-packet one-way delay: 171.417 ms

Loss rate: 1.79%

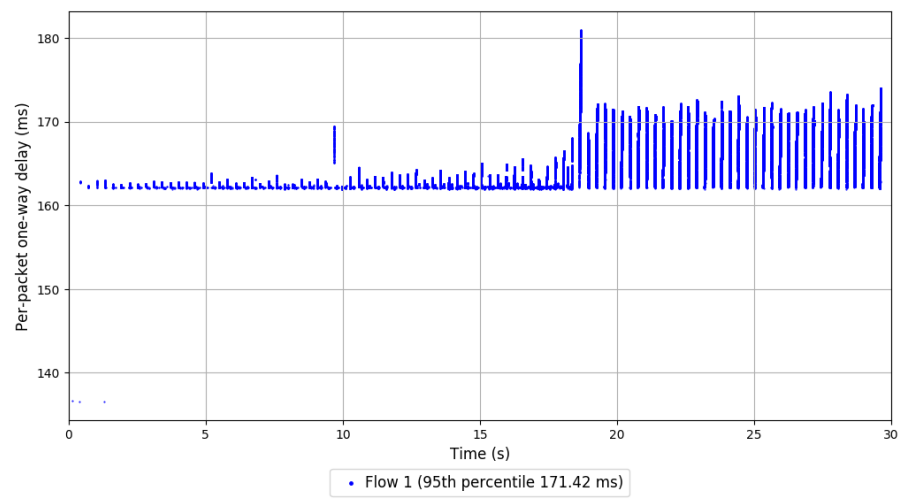
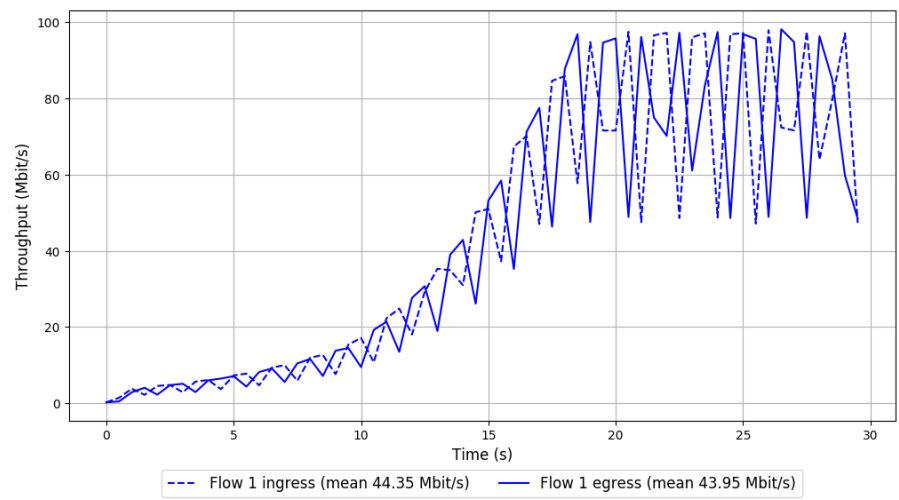
-- Flow 1:

Average throughput: 43.95 Mbit/s

95th percentile per-packet one-way delay: 171.417 ms

Loss rate: 1.79%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-20 09:50:58

End at: 2018-02-20 09:51:28

Below is generated by plot.py at 2018-02-20 14:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 171.855 ms

Loss rate: 1.85%

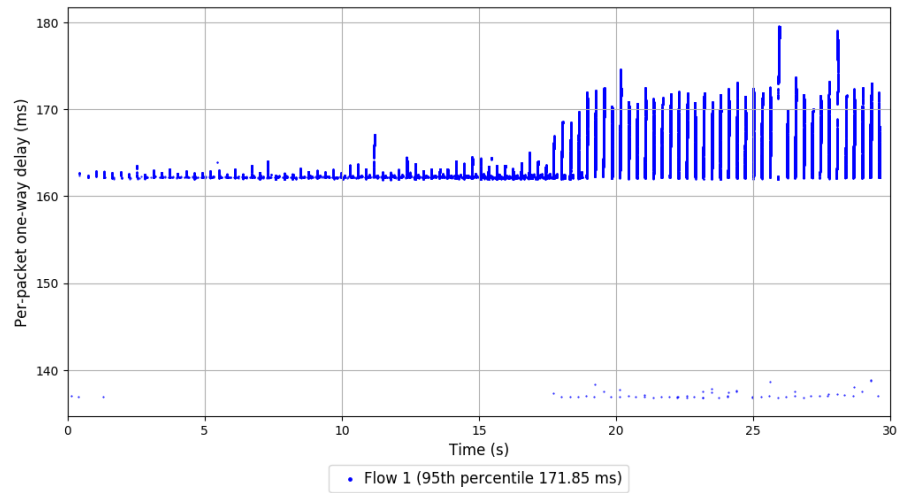
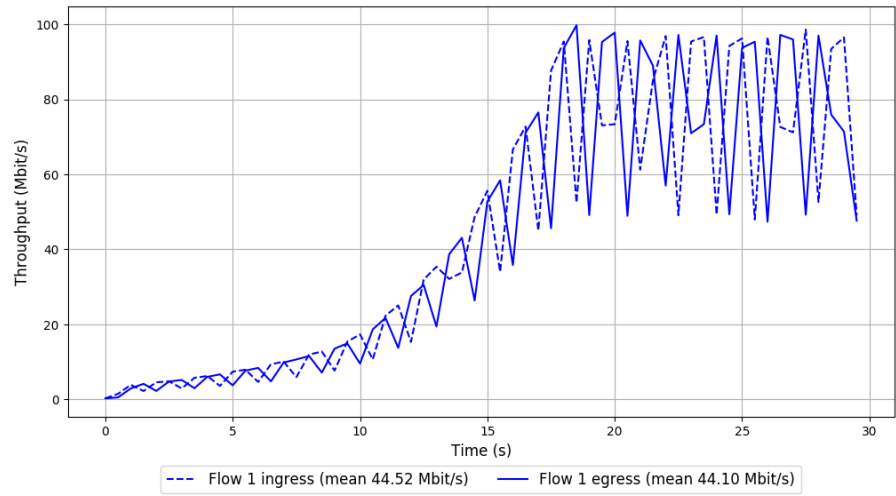
-- Flow 1:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 171.855 ms

Loss rate: 1.85%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-20 10:06:20

End at: 2018-02-20 10:06:50

Below is generated by plot.py at 2018-02-20 14:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 166.144 ms

Loss rate: 1.70%

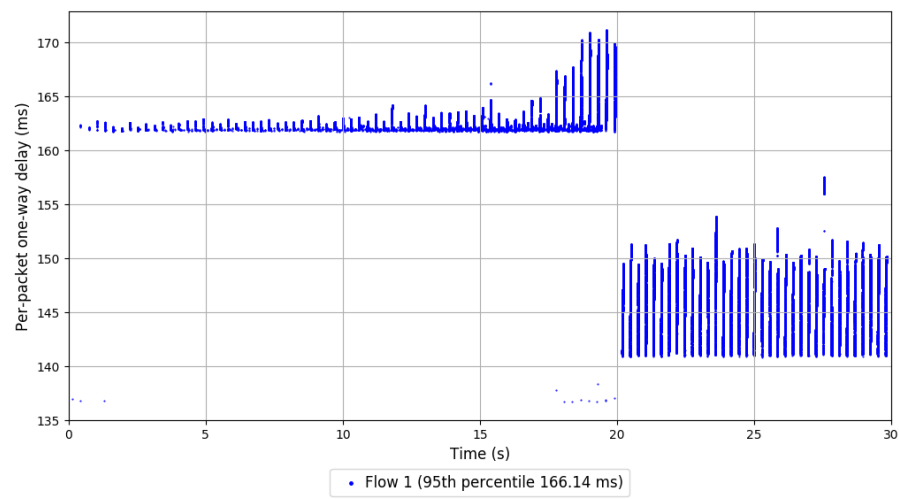
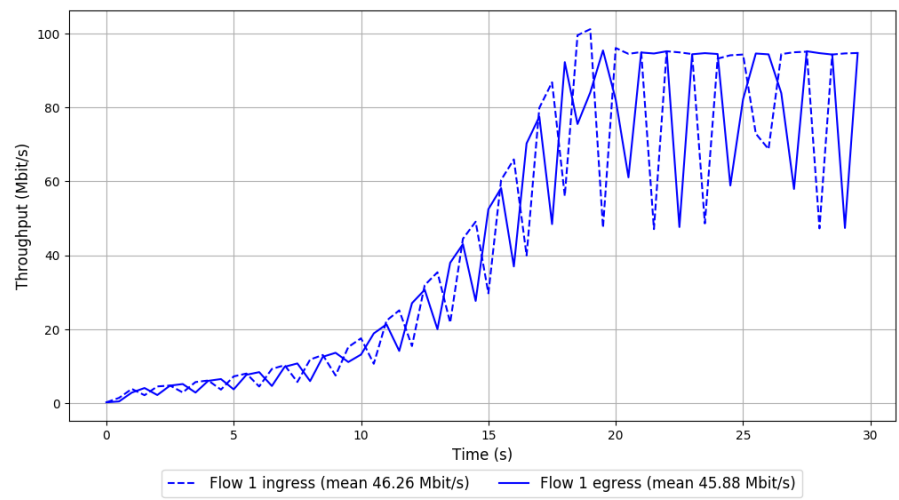
-- Flow 1:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 166.144 ms

Loss rate: 1.70%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-20 10:21:56

End at: 2018-02-20 10:22:26

Below is generated by plot.py at 2018-02-20 14:40:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 148.687 ms

Loss rate: 0.97%

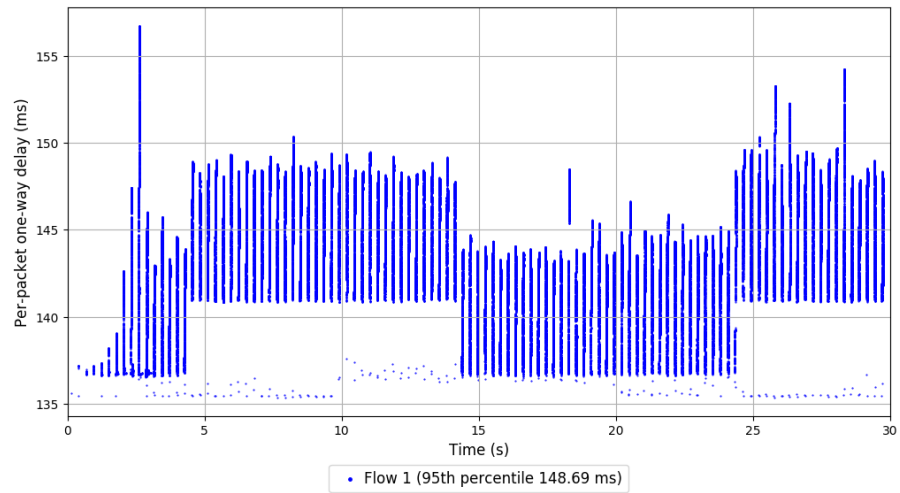
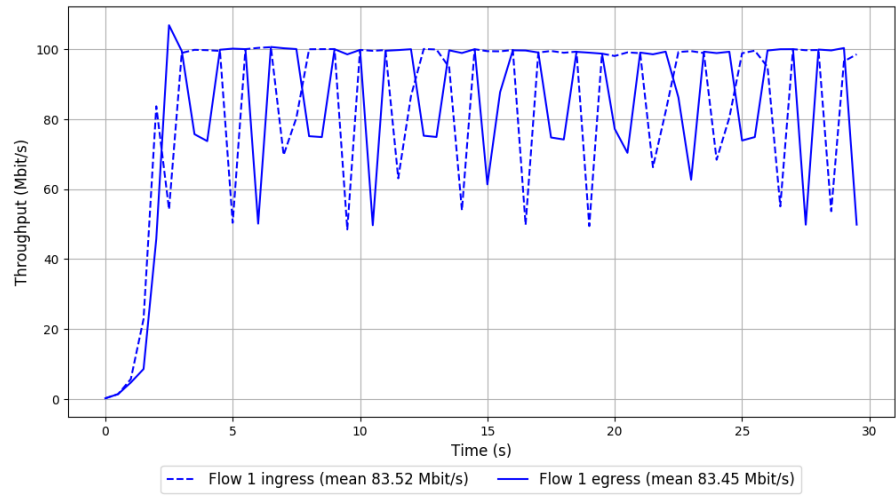
-- Flow 1:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 148.687 ms

Loss rate: 0.97%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-20 10:37:53

End at: 2018-02-20 10:38:23

Below is generated by plot.py at 2018-02-20 14:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 149.025 ms

Loss rate: 0.94%

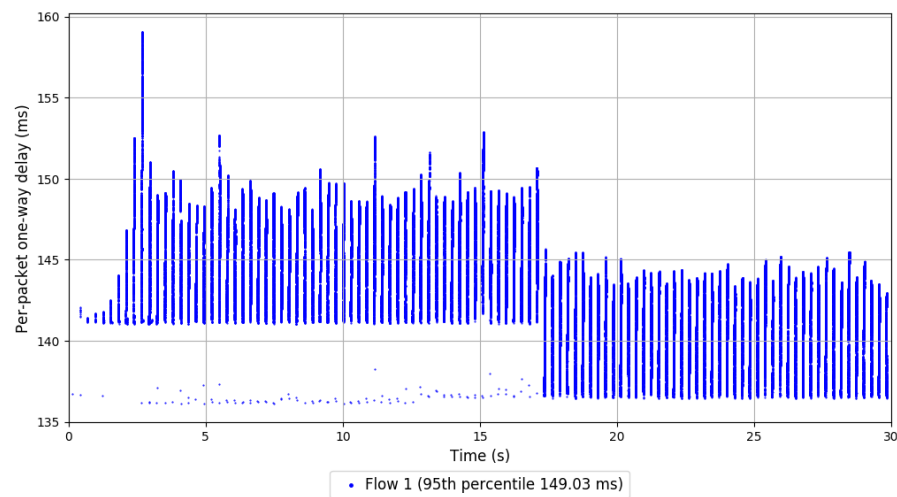
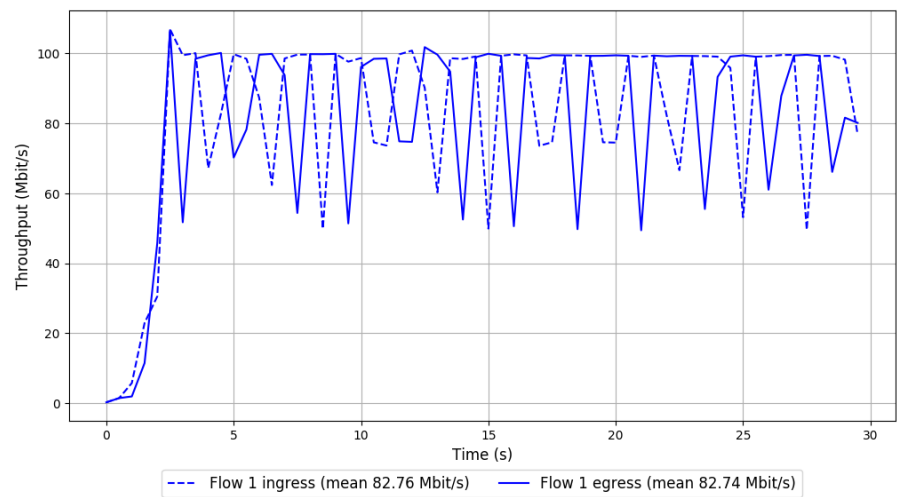
-- Flow 1:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 149.025 ms

Loss rate: 0.94%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-20 10:53:43

End at: 2018-02-20 10:54:13

Below is generated by plot.py at 2018-02-20 14:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.12 Mbit/s

95th percentile per-packet one-way delay: 143.388 ms

Loss rate: 1.01%

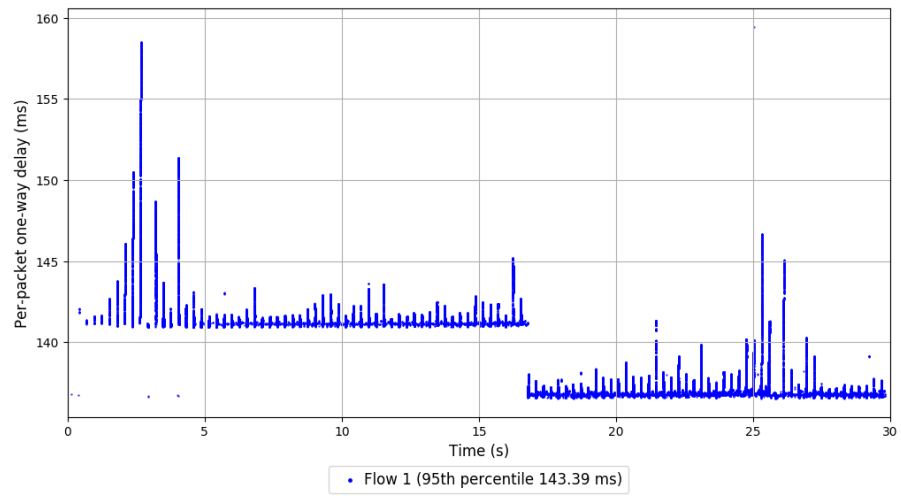
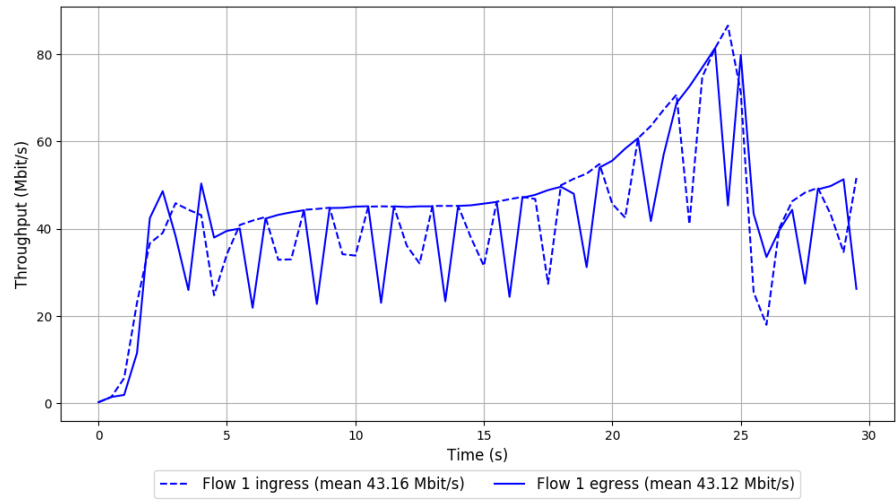
-- Flow 1:

Average throughput: 43.12 Mbit/s

95th percentile per-packet one-way delay: 143.388 ms

Loss rate: 1.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-20 11:09:44

End at: 2018-02-20 11:10:14

Below is generated by plot.py at 2018-02-20 14:41:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.15 Mbit/s

95th percentile per-packet one-way delay: 169.492 ms

Loss rate: 1.03%

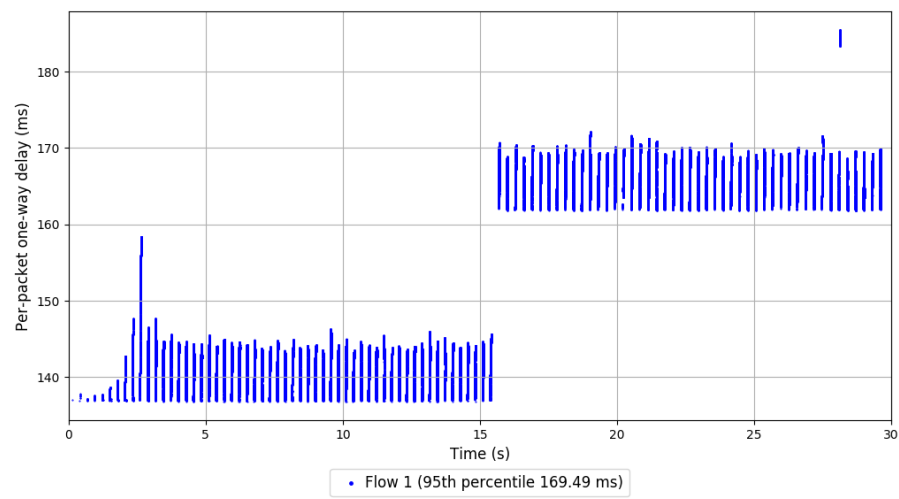
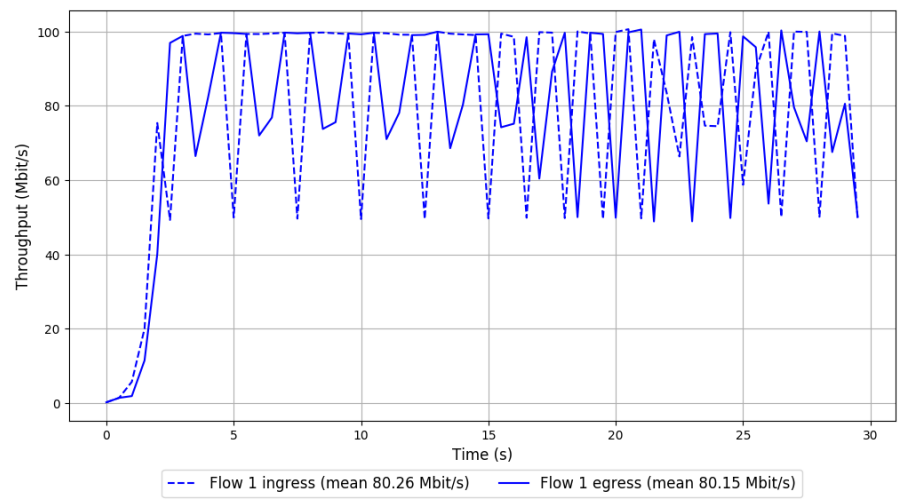
-- Flow 1:

Average throughput: 80.15 Mbit/s

95th percentile per-packet one-way delay: 169.492 ms

Loss rate: 1.03%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-20 11:25:17

End at: 2018-02-20 11:25:47

Below is generated by plot.py at 2018-02-20 14:41:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 165.984 ms

Loss rate: 1.75%

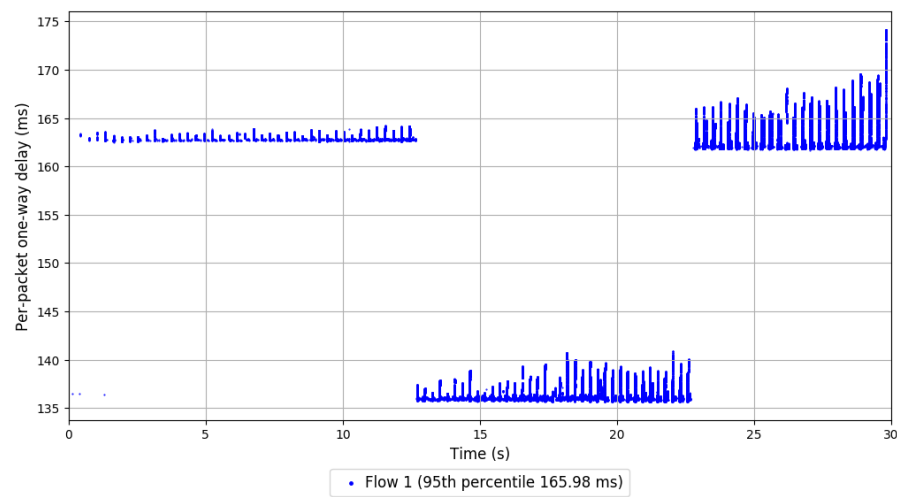
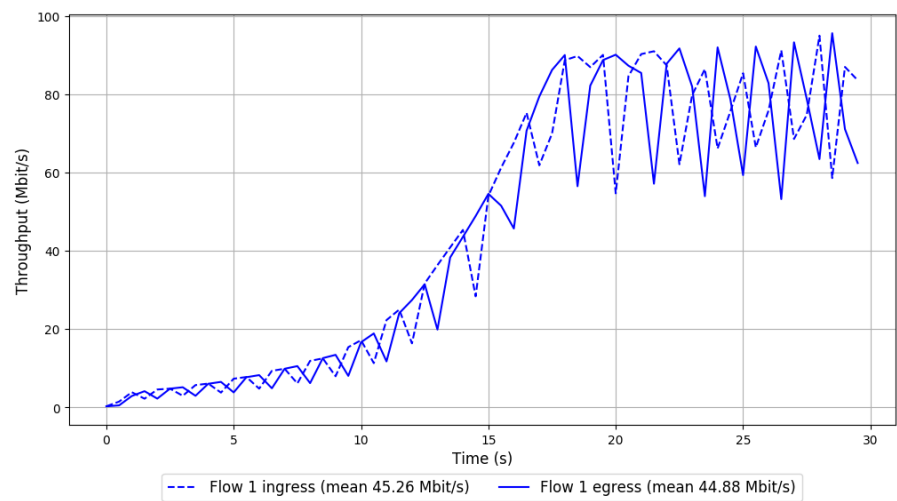
-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 165.984 ms

Loss rate: 1.75%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-20 11:40:42

End at: 2018-02-20 11:41:12

Below is generated by plot.py at 2018-02-20 14:41:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 169.634 ms

Loss rate: 1.45%

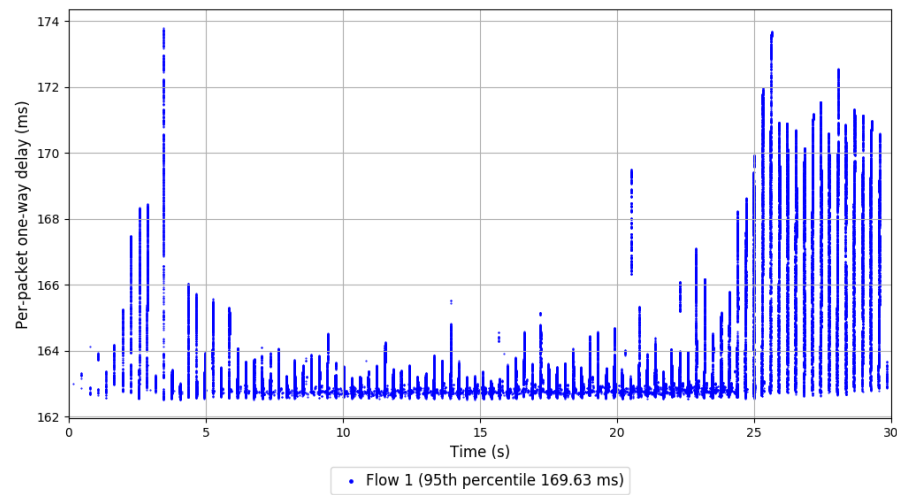
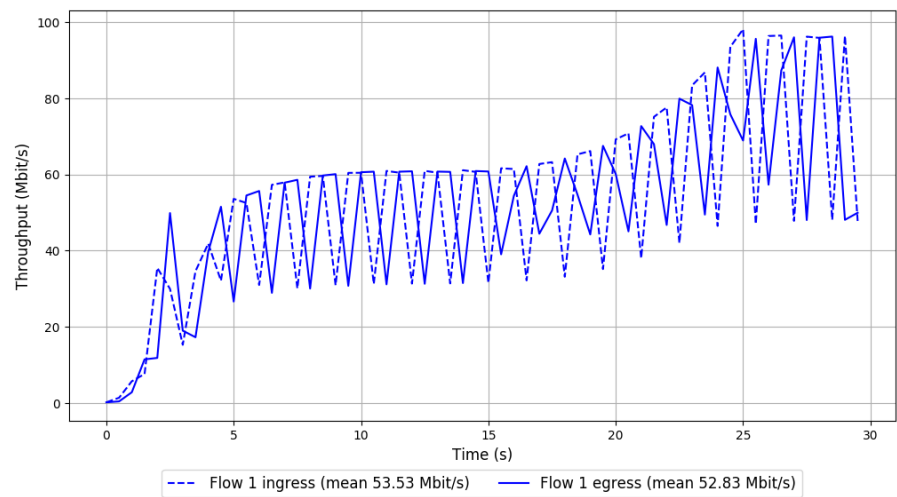
-- Flow 1:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 169.634 ms

Loss rate: 1.45%

Run 10: Report of TCP Cubic — Data Link

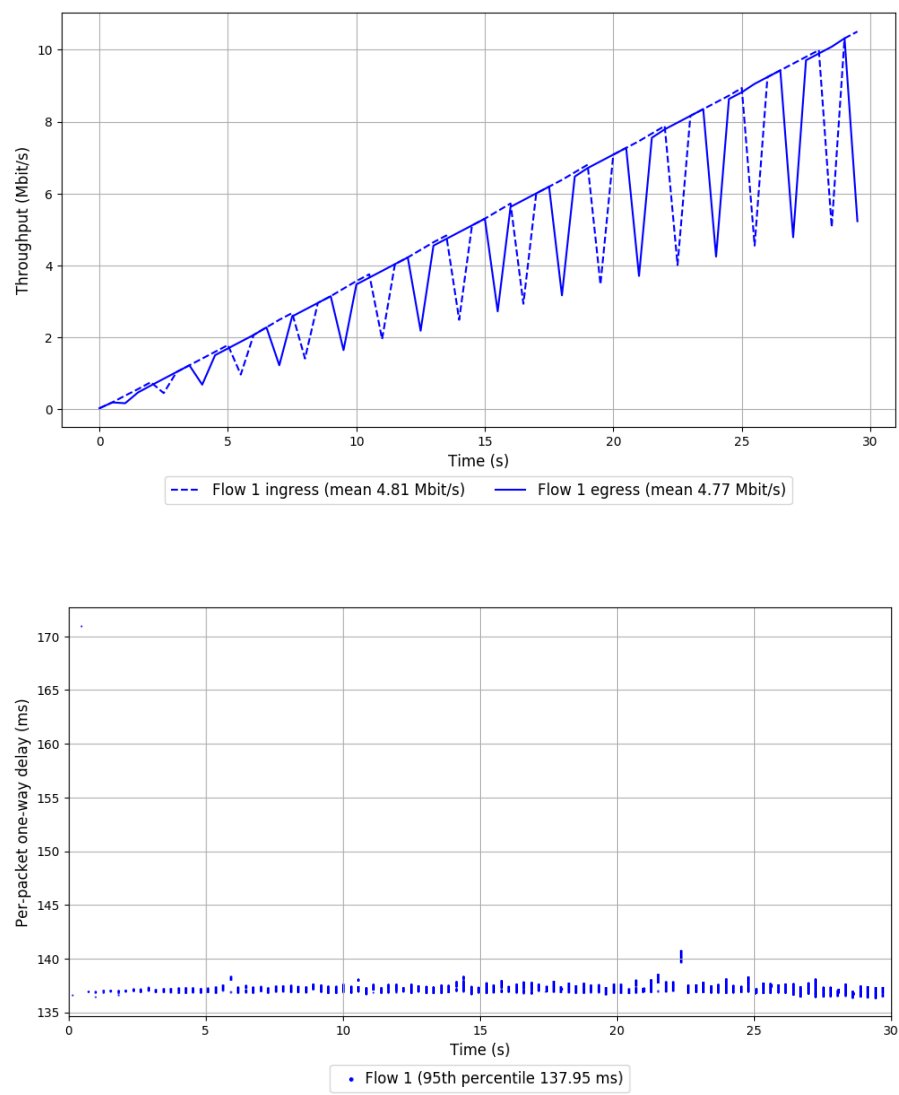


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-20 09:11:14
End at: 2018-02-20 09:11:44

# Below is generated by plot.py at 2018-02-20 14:41:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 137.950 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 137.950 ms
Loss rate: 1.84%
```

Run 1: Report of LEDBAT — Data Link

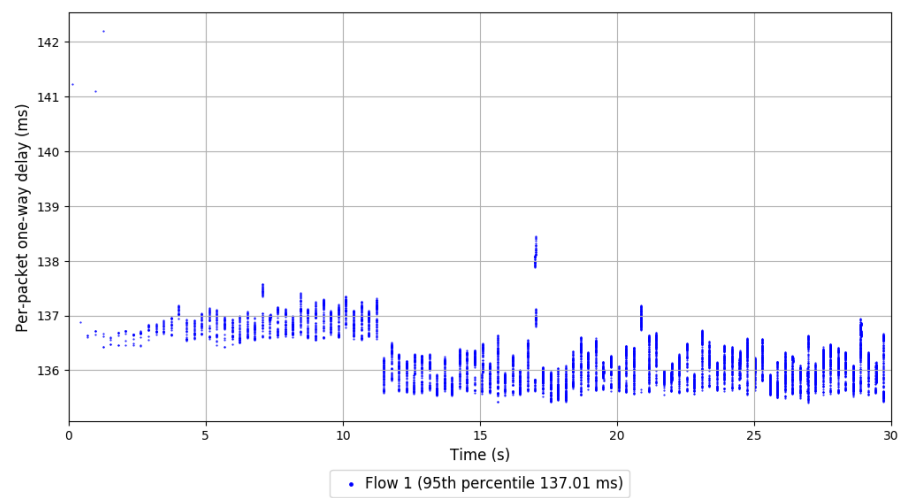
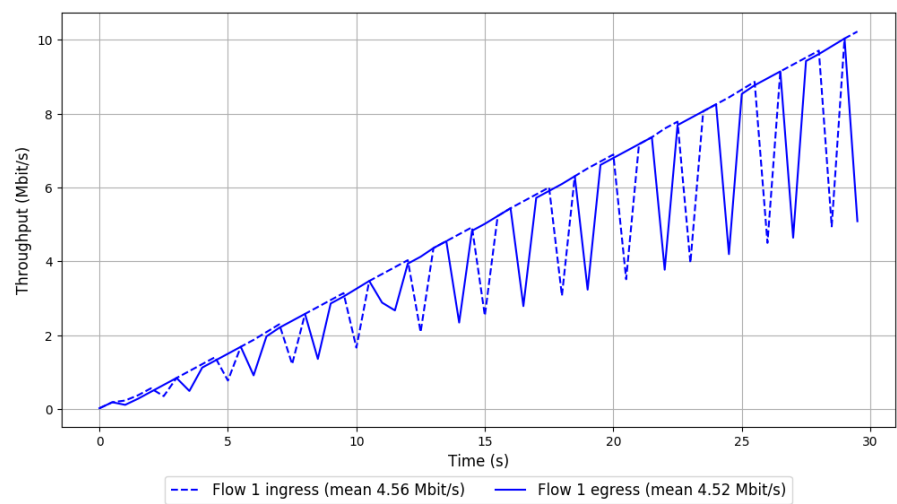


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-20 09:27:09
End at: 2018-02-20 09:27:39

# Below is generated by plot.py at 2018-02-20 14:41:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 137.007 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 137.007 ms
Loss rate: 1.89%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-20 09:42:51

End at: 2018-02-20 09:43:21

Below is generated by plot.py at 2018-02-20 14:41:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 162.564 ms

Loss rate: 2.02%

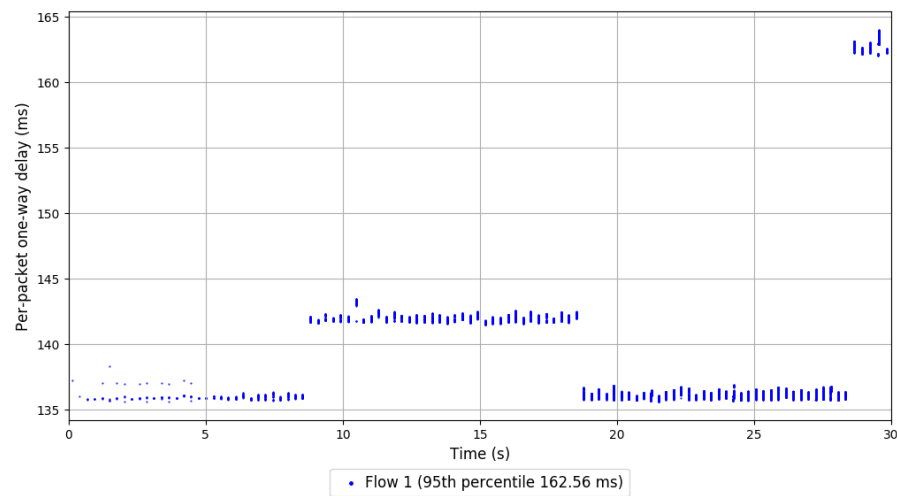
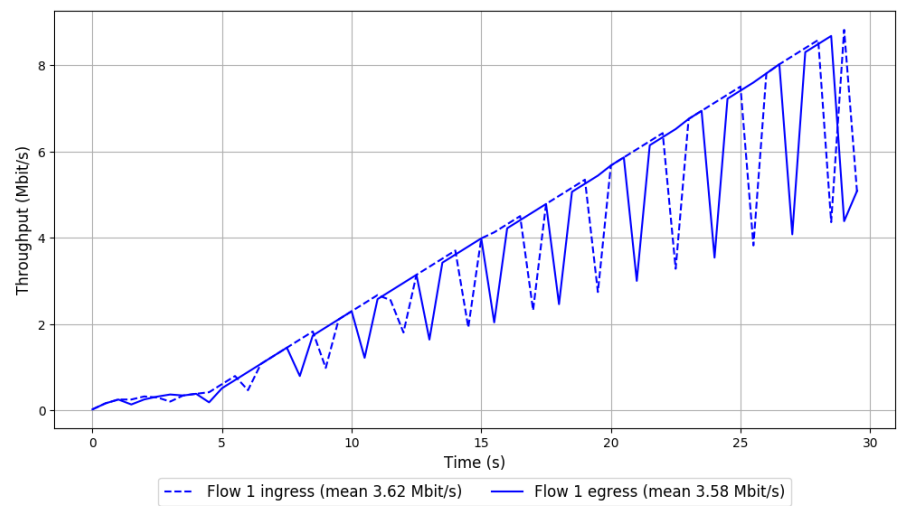
-- Flow 1:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 162.564 ms

Loss rate: 2.02%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-20 09:58:01

End at: 2018-02-20 09:58:31

Below is generated by plot.py at 2018-02-20 14:41:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 162.917 ms

Loss rate: 1.79%

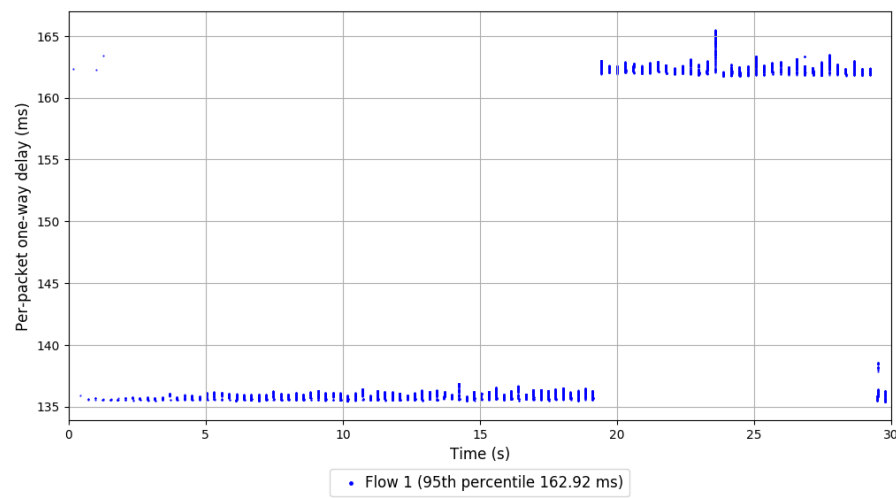
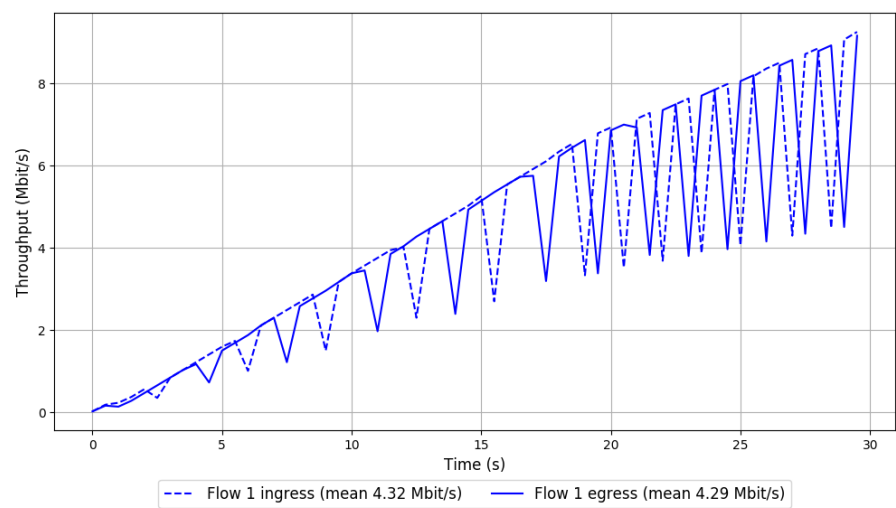
-- Flow 1:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 162.917 ms

Loss rate: 1.79%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-20 10:13:48

End at: 2018-02-20 10:14:18

Below is generated by plot.py at 2018-02-20 14:41:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 162.501 ms

Loss rate: 1.99%

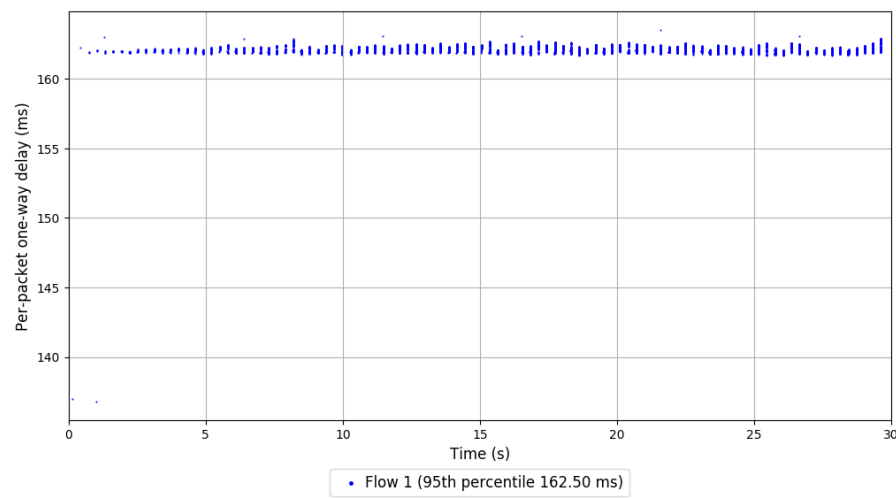
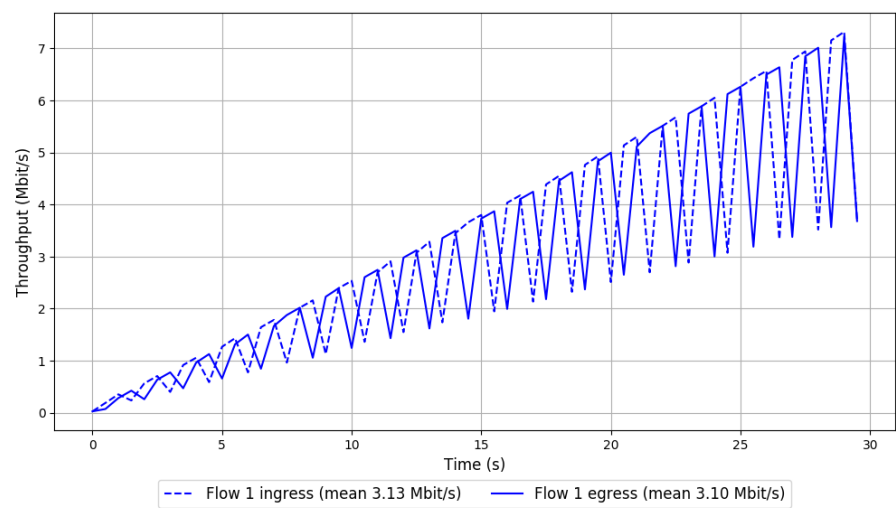
-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 162.501 ms

Loss rate: 1.99%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-20 10:29:21

End at: 2018-02-20 10:29:51

Below is generated by plot.py at 2018-02-20 14:41:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 141.948 ms

Loss rate: 1.88%

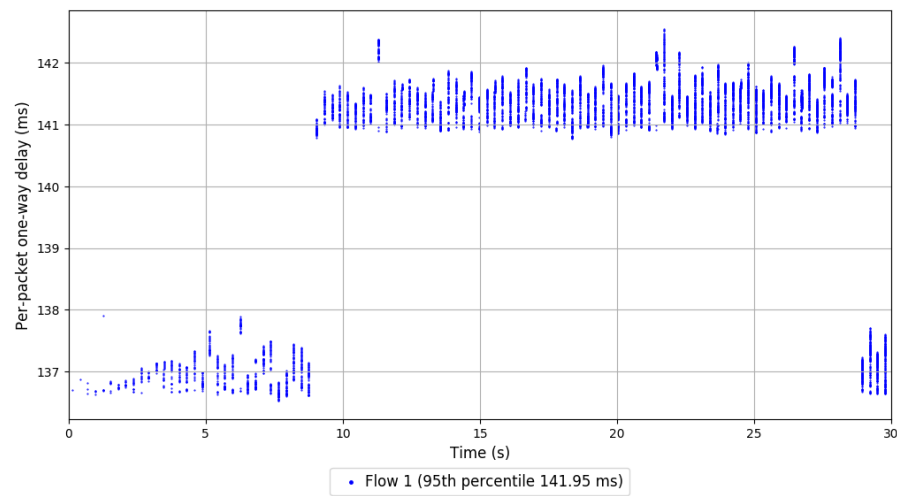
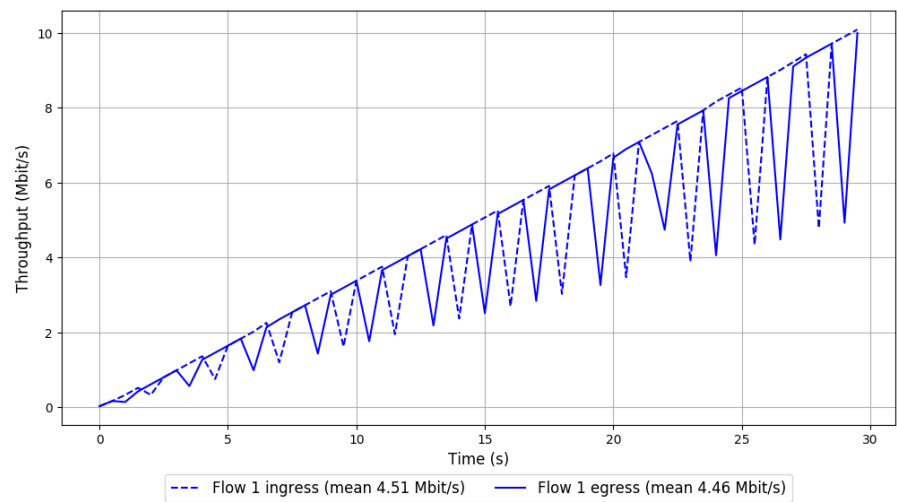
-- Flow 1:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 141.948 ms

Loss rate: 1.88%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-20 10:45:24

End at: 2018-02-20 10:45:54

Below is generated by plot.py at 2018-02-20 14:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 142.209 ms

Loss rate: 1.86%

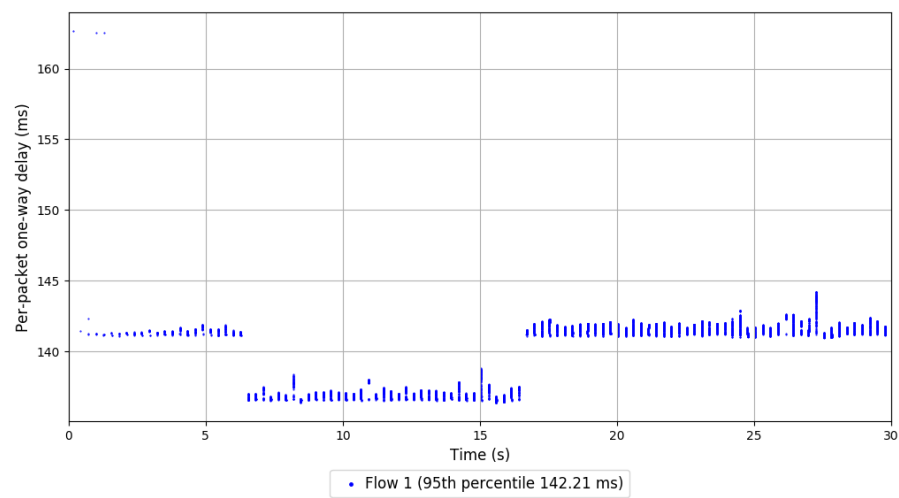
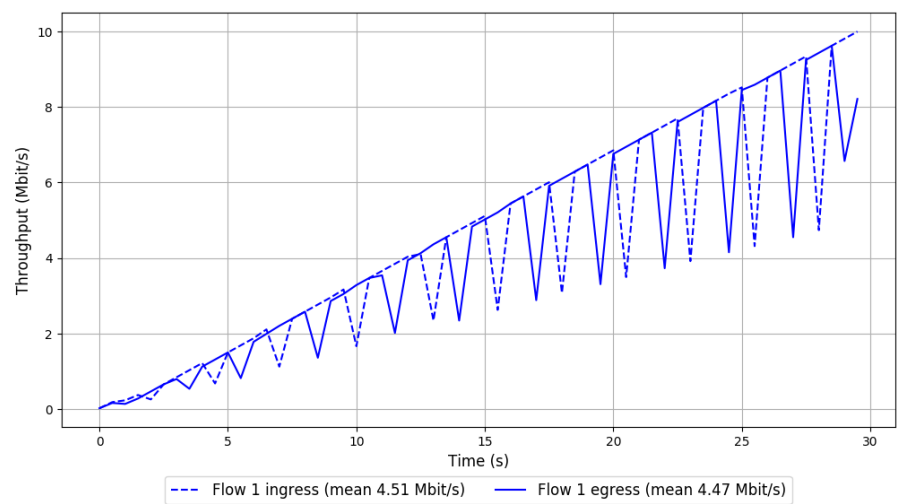
-- Flow 1:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 142.209 ms

Loss rate: 1.86%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-20 11:01:04

End at: 2018-02-20 11:01:34

Below is generated by plot.py at 2018-02-20 14:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 142.355 ms

Loss rate: 1.89%

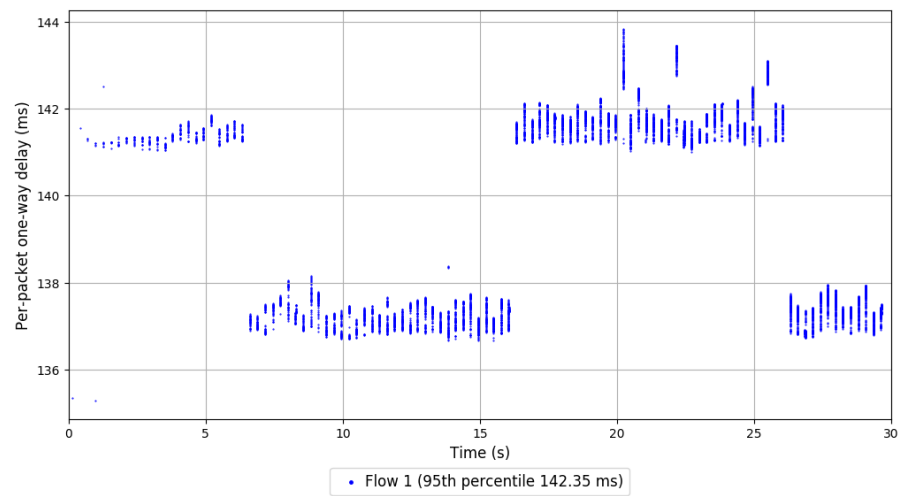
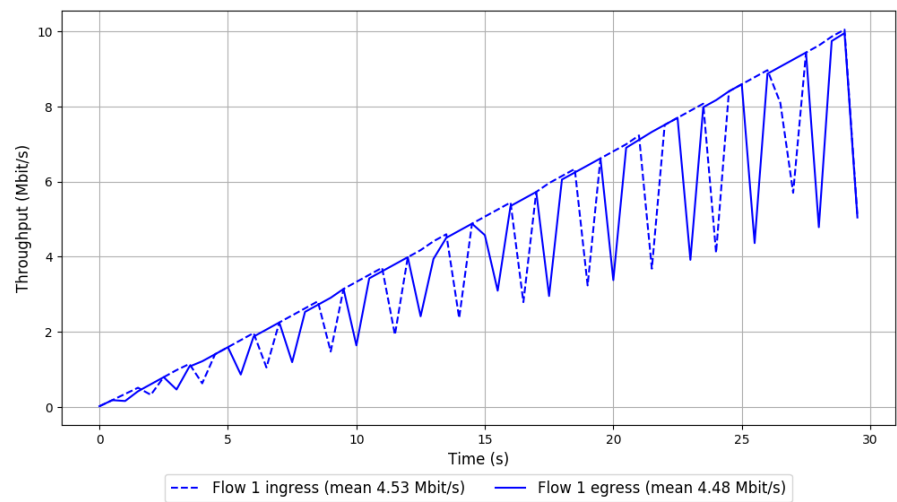
-- Flow 1:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 142.355 ms

Loss rate: 1.89%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-20 11:16:52

End at: 2018-02-20 11:17:22

Below is generated by plot.py at 2018-02-20 14:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 162.882 ms

Loss rate: 1.79%

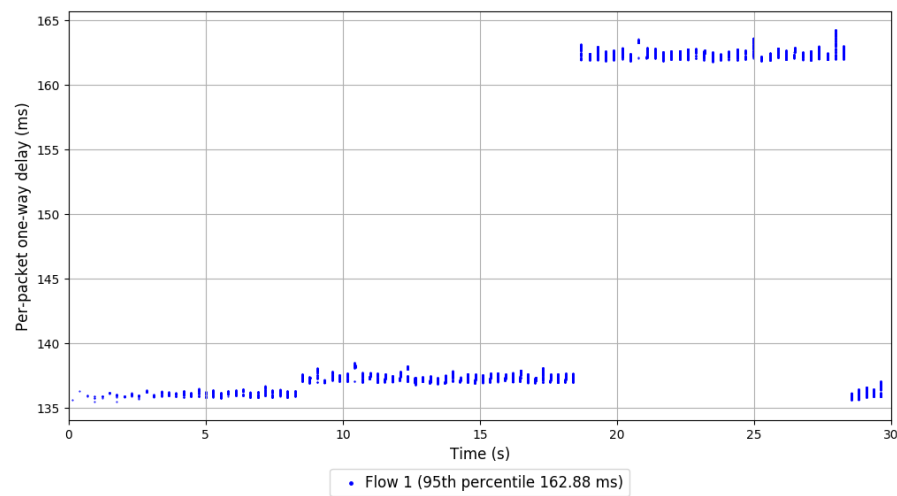
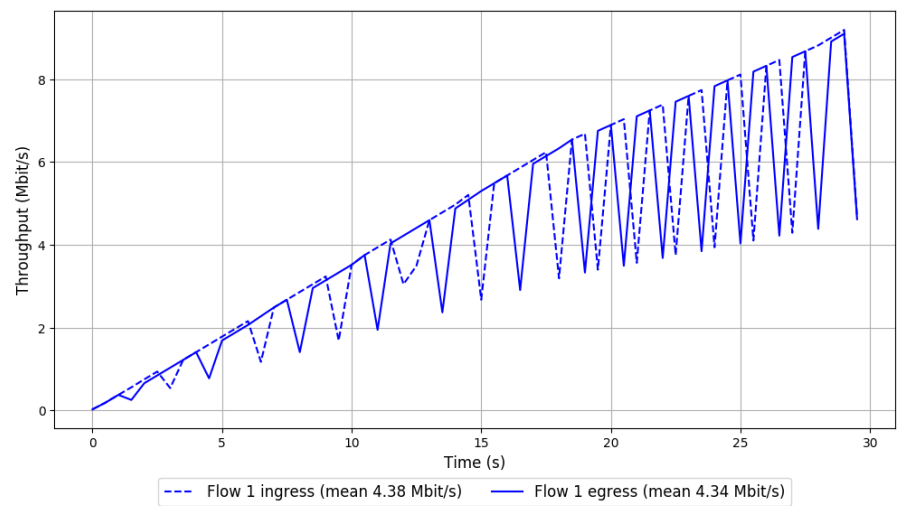
-- Flow 1:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 162.882 ms

Loss rate: 1.79%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-20 11:32:29

End at: 2018-02-20 11:32:59

Below is generated by plot.py at 2018-02-20 14:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 163.524 ms

Loss rate: 1.98%

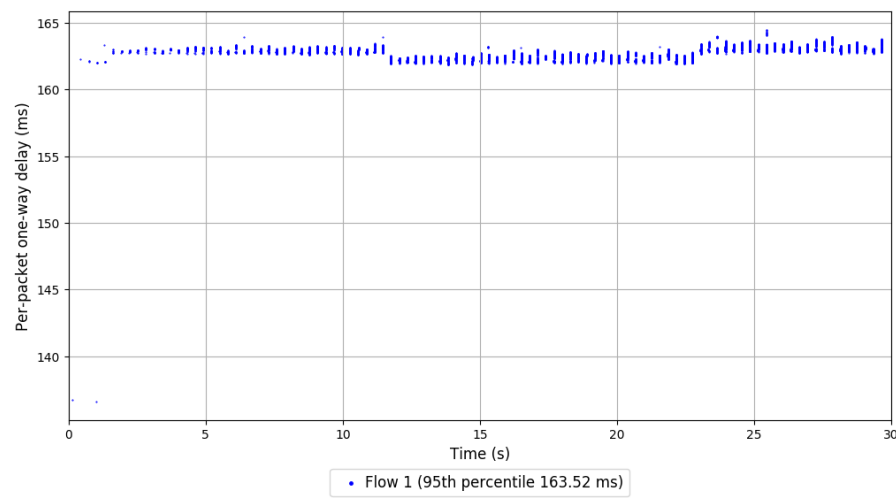
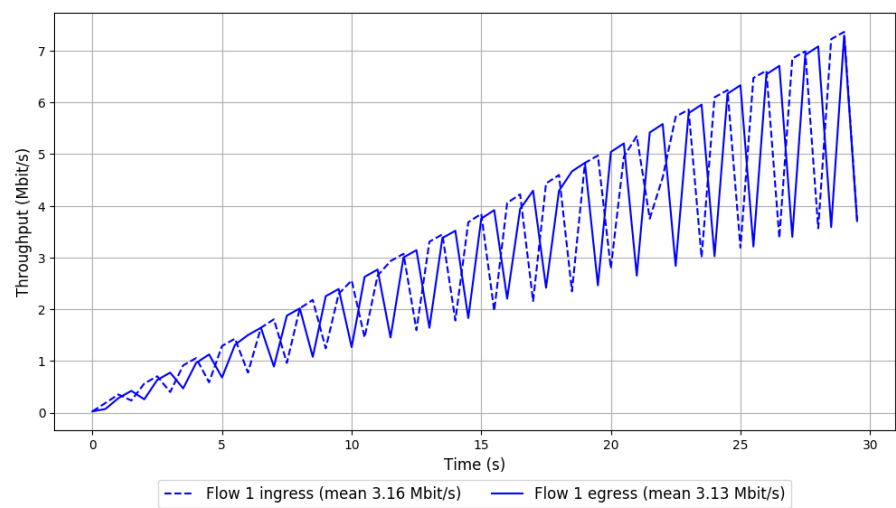
-- Flow 1:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 163.524 ms

Loss rate: 1.98%

Run 10: Report of LEDBAT — Data Link

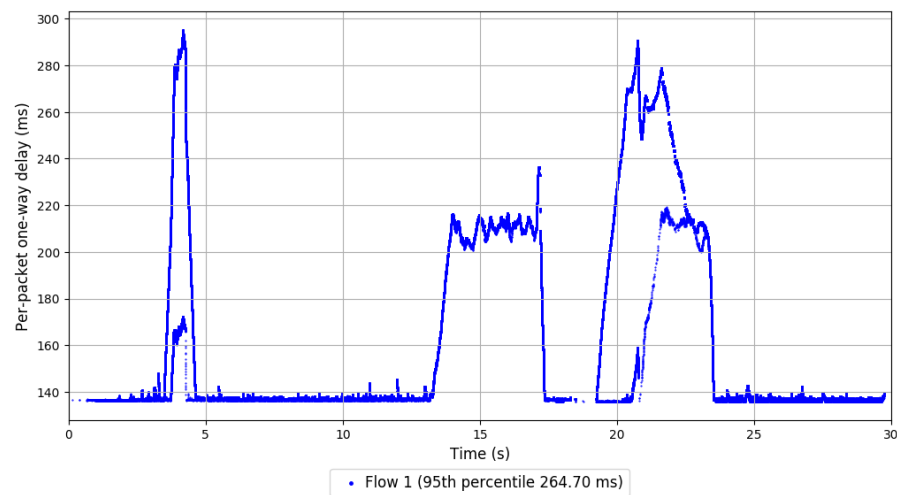
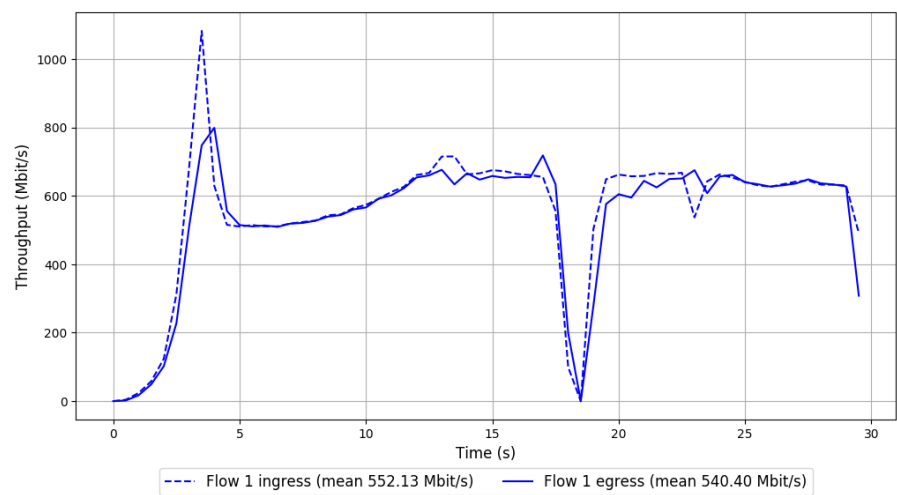


```
Run 1: Statistics of PCC

Start at: 2018-02-20 09:14:27
End at: 2018-02-20 09:14:58

# Below is generated by plot.py at 2018-02-20 14:49:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.40 Mbit/s
95th percentile per-packet one-way delay: 264.701 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 540.40 Mbit/s
95th percentile per-packet one-way delay: 264.701 ms
Loss rate: 3.02%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-20 09:30:19

End at: 2018-02-20 09:30:49

Below is generated by plot.py at 2018-02-20 14:49:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.57 Mbit/s

95th percentile per-packet one-way delay: 197.856 ms

Loss rate: 2.53%

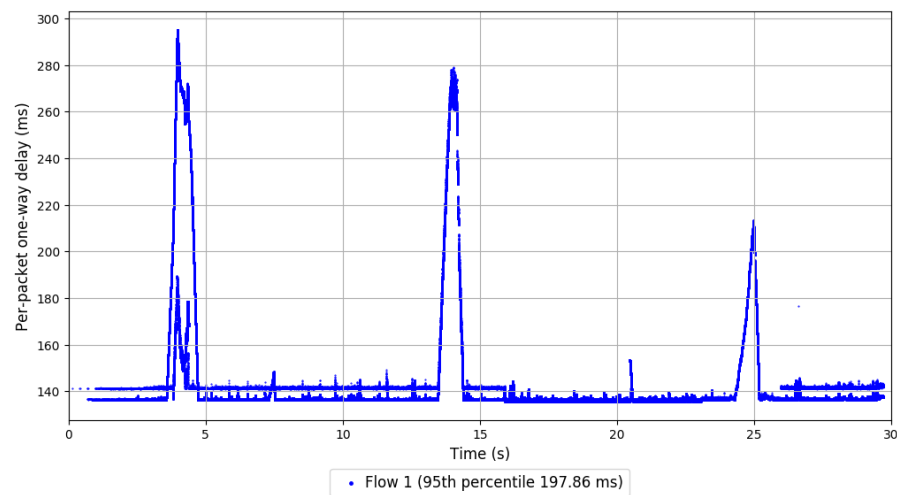
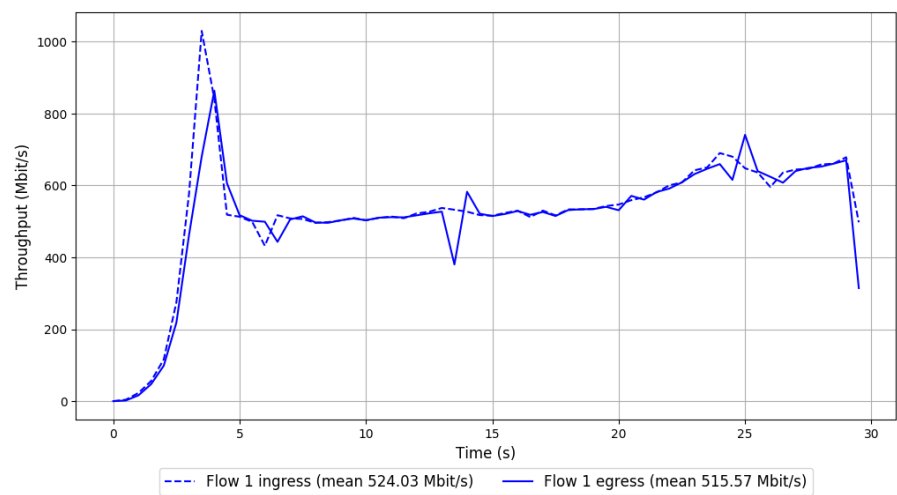
-- Flow 1:

Average throughput: 515.57 Mbit/s

95th percentile per-packet one-way delay: 197.856 ms

Loss rate: 2.53%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-20 09:46:05

End at: 2018-02-20 09:46:35

Below is generated by plot.py at 2018-02-20 14:49:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 162.132 ms

Loss rate: 1.50%

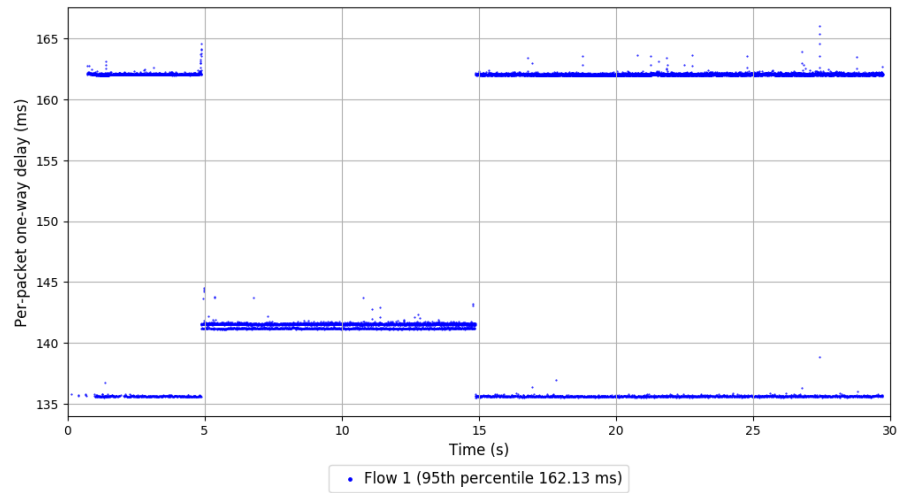
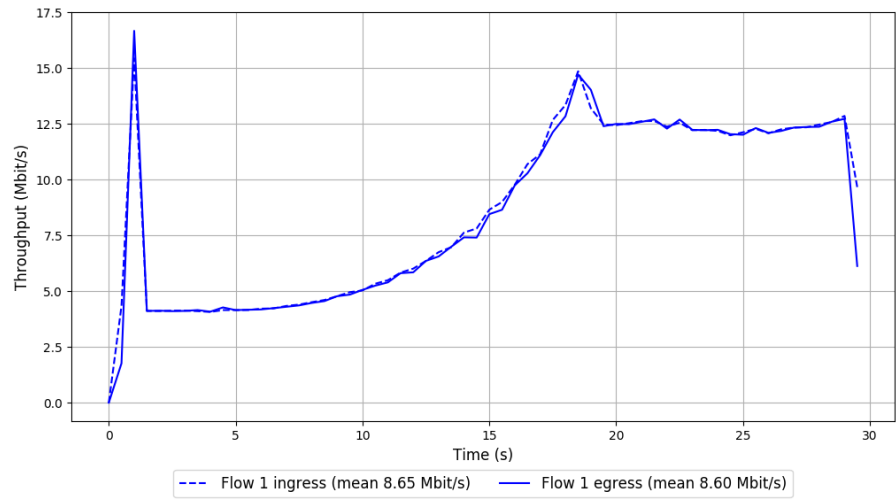
-- Flow 1:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 162.132 ms

Loss rate: 1.50%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-20 10:01:11

End at: 2018-02-20 10:01:41

Below is generated by plot.py at 2018-02-20 14:49:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.68 Mbit/s

95th percentile per-packet one-way delay: 167.289 ms

Loss rate: 2.41%

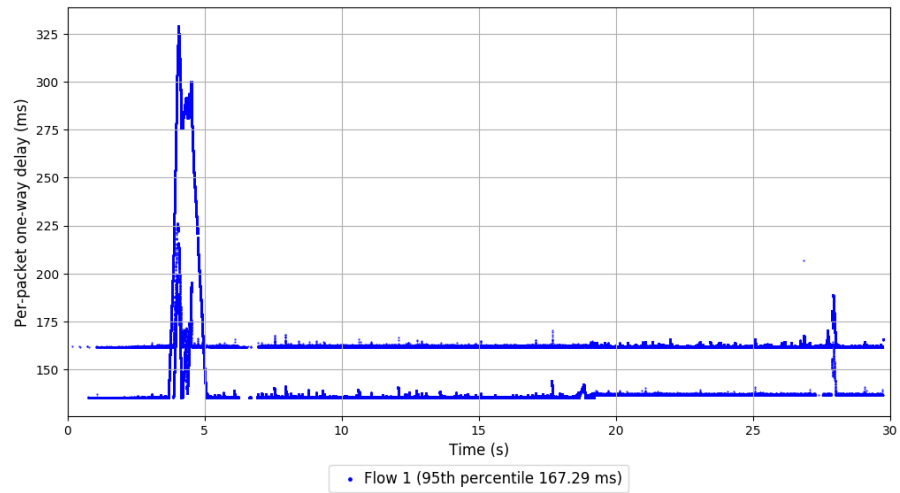
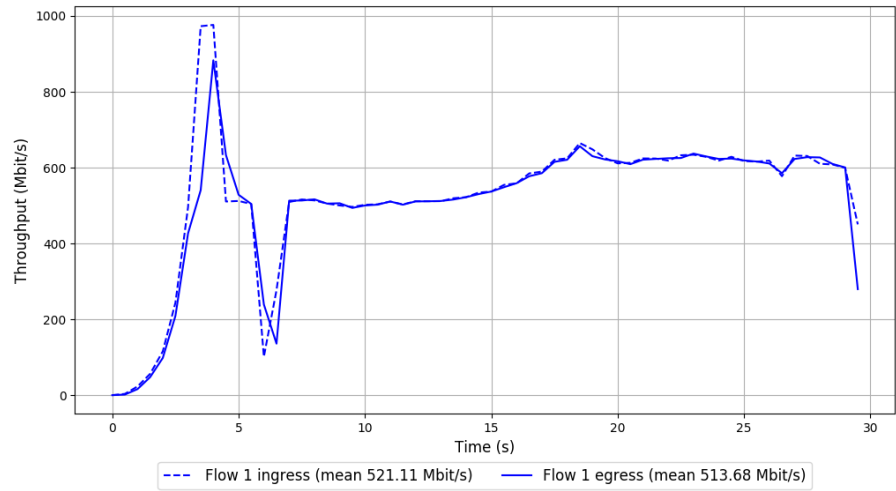
-- Flow 1:

Average throughput: 513.68 Mbit/s

95th percentile per-packet one-way delay: 167.289 ms

Loss rate: 2.41%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-20 10:16:59

End at: 2018-02-20 10:17:29

Below is generated by plot.py at 2018-02-20 14:49:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 161.785 ms

Loss rate: 3.41%

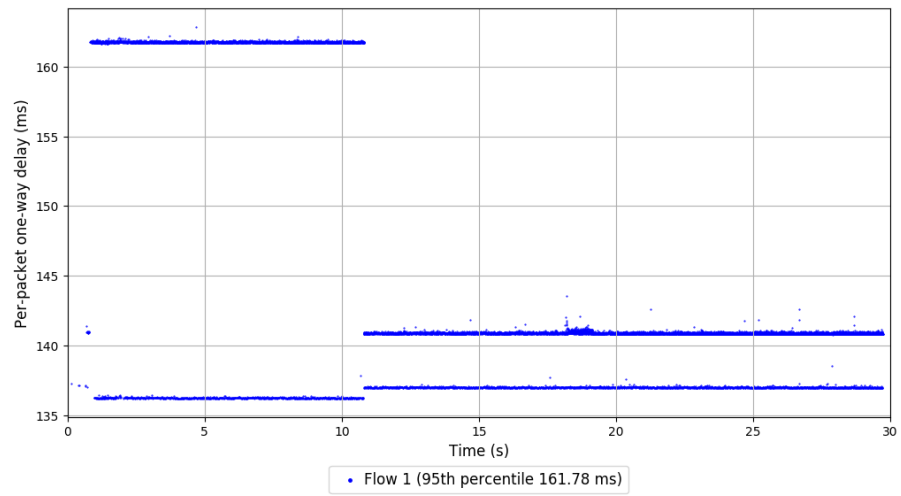
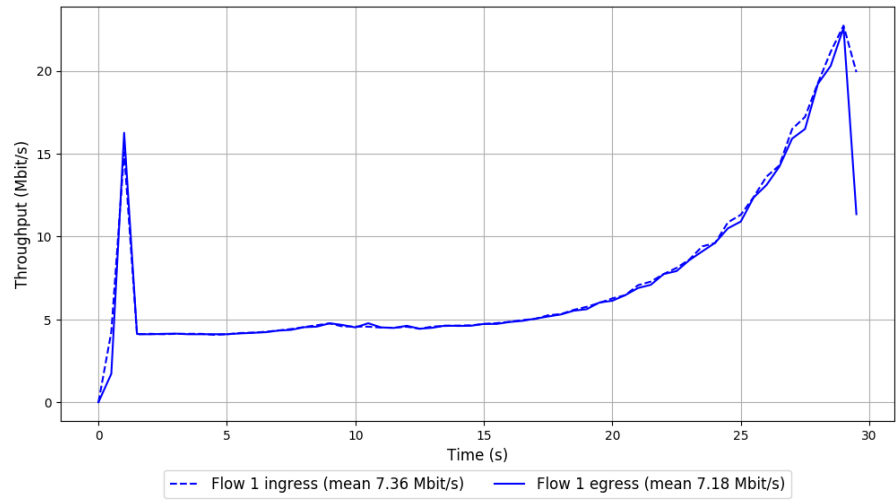
-- Flow 1:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 161.785 ms

Loss rate: 3.41%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-20 10:32:33

End at: 2018-02-20 10:33:03

Below is generated by plot.py at 2018-02-20 14:50:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 576.32 Mbit/s

95th percentile per-packet one-way delay: 268.669 ms

Loss rate: 2.96%

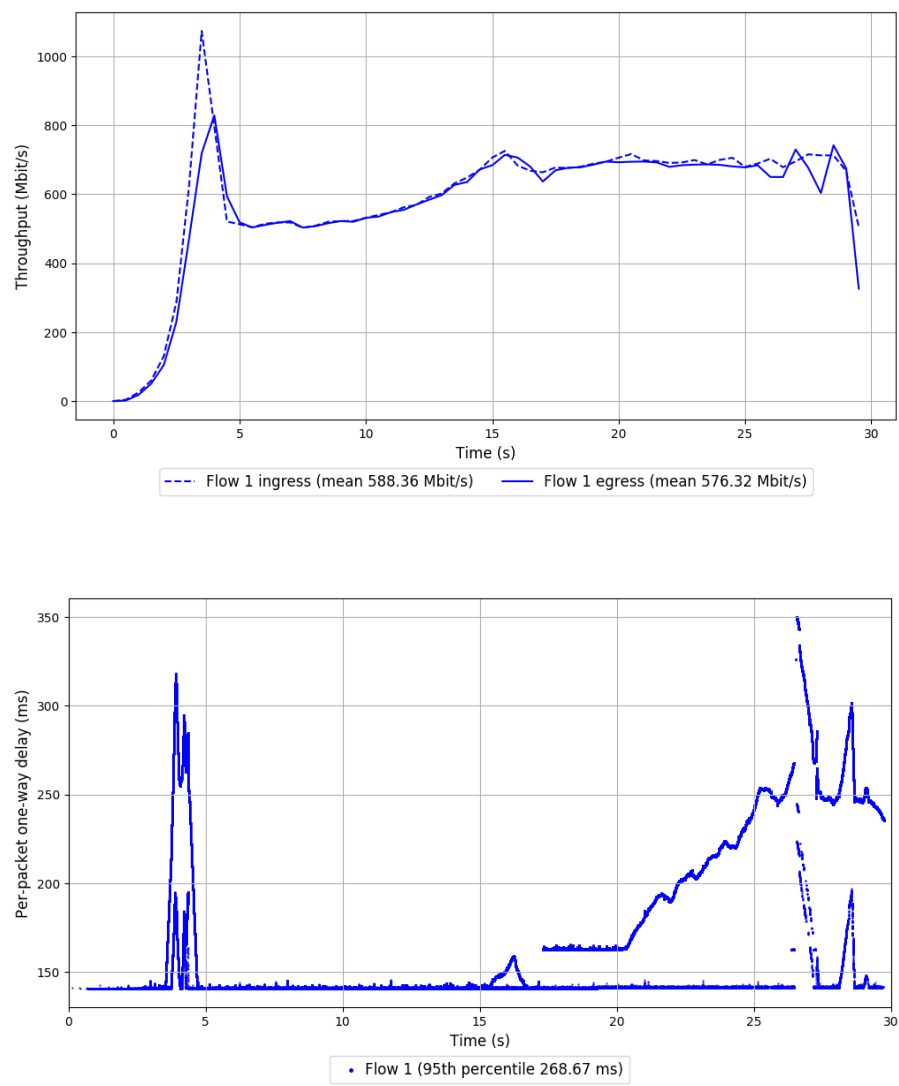
-- Flow 1:

Average throughput: 576.32 Mbit/s

95th percentile per-packet one-way delay: 268.669 ms

Loss rate: 2.96%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-20 10:48:36

End at: 2018-02-20 10:49:06

Below is generated by plot.py at 2018-02-20 14:50:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.51 Mbit/s

95th percentile per-packet one-way delay: 225.800 ms

Loss rate: 1.44%

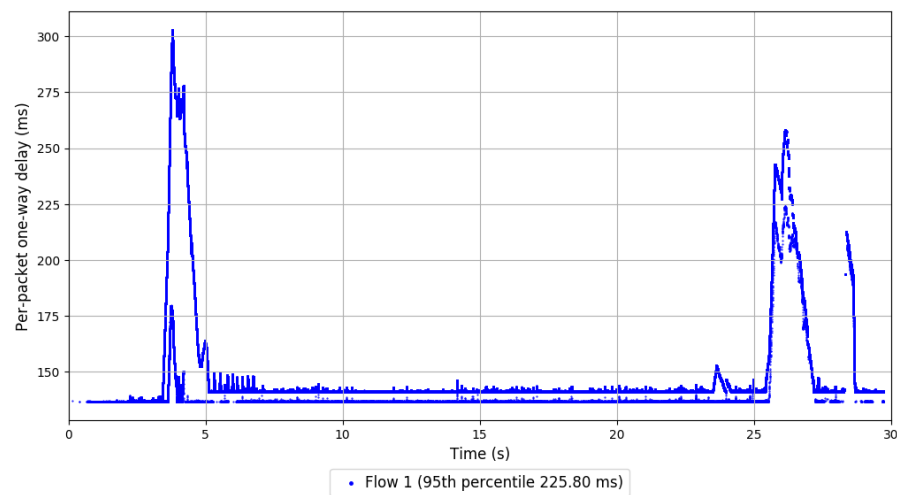
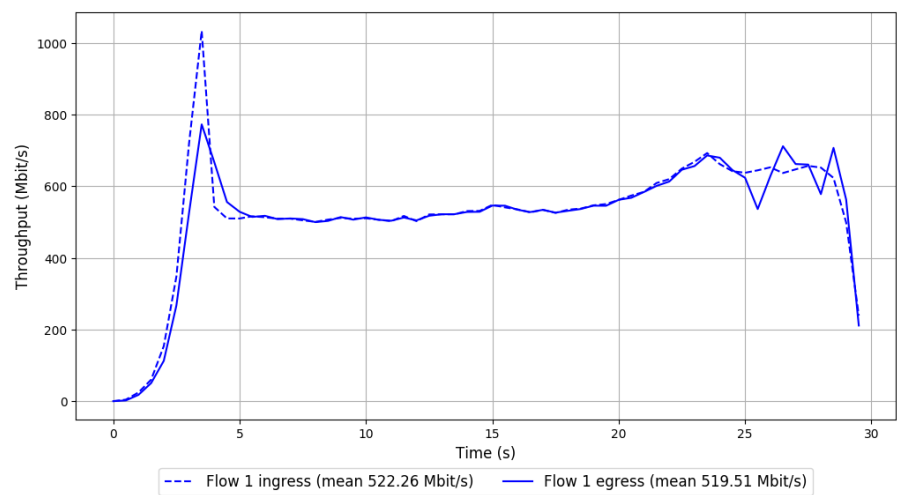
-- Flow 1:

Average throughput: 519.51 Mbit/s

95th percentile per-packet one-way delay: 225.800 ms

Loss rate: 1.44%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-20 11:04:16

End at: 2018-02-20 11:04:46

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.61 Mbit/s

95th percentile per-packet one-way delay: 231.818 ms

Loss rate: 2.09%

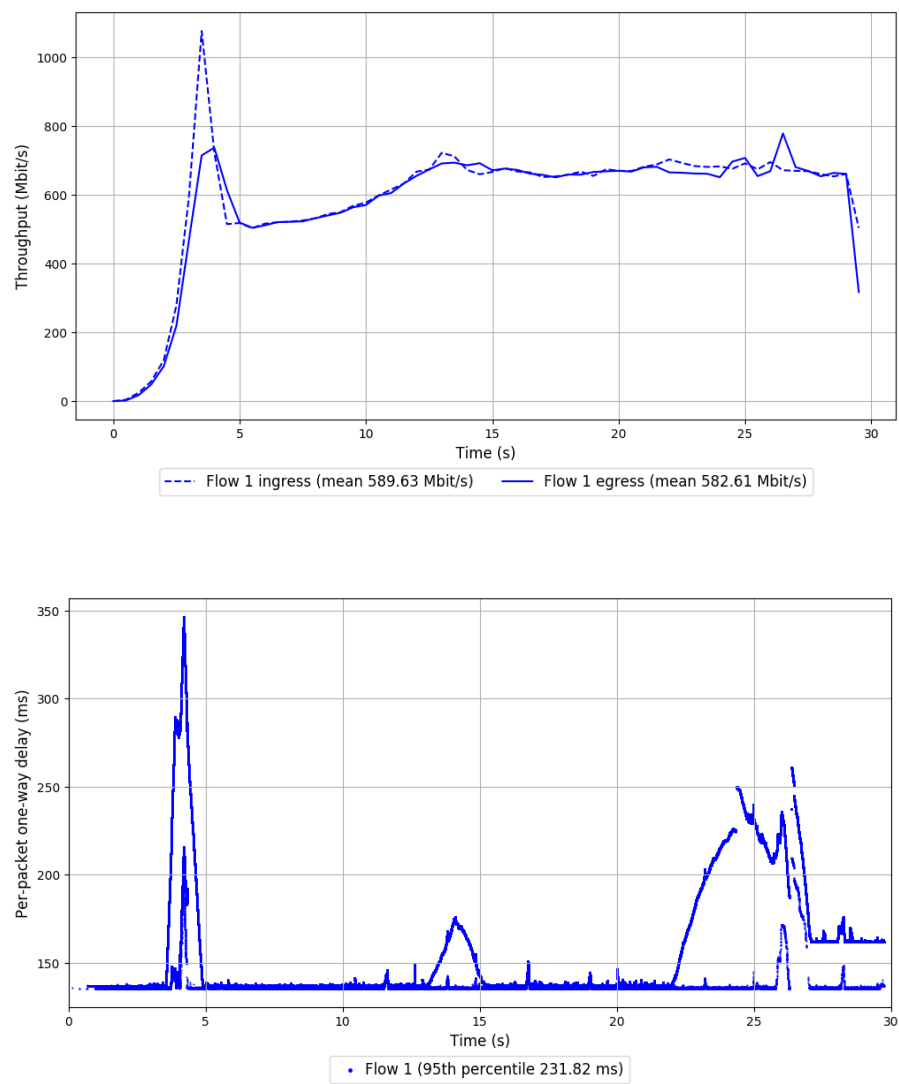
-- Flow 1:

Average throughput: 582.61 Mbit/s

95th percentile per-packet one-way delay: 231.818 ms

Loss rate: 2.09%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-20 11:20:03

End at: 2018-02-20 11:20:33

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.25 Mbit/s

95th percentile per-packet one-way delay: 185.984 ms

Loss rate: 2.15%

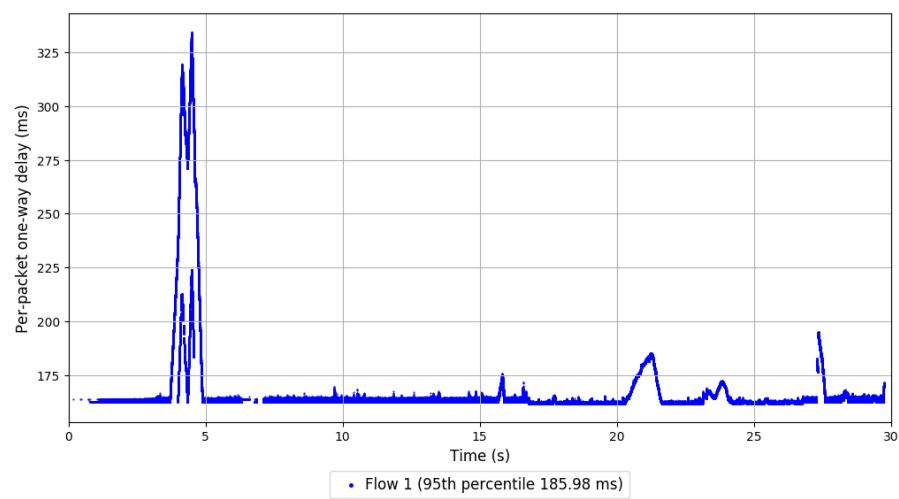
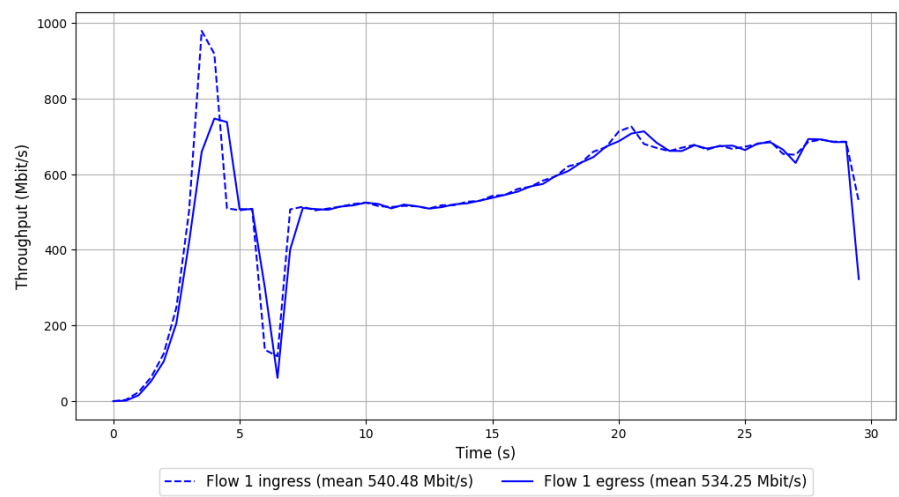
-- Flow 1:

Average throughput: 534.25 Mbit/s

95th percentile per-packet one-way delay: 185.984 ms

Loss rate: 2.15%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-20 11:35:40

End at: 2018-02-20 11:36:10

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 162.789 ms

Loss rate: 1.22%

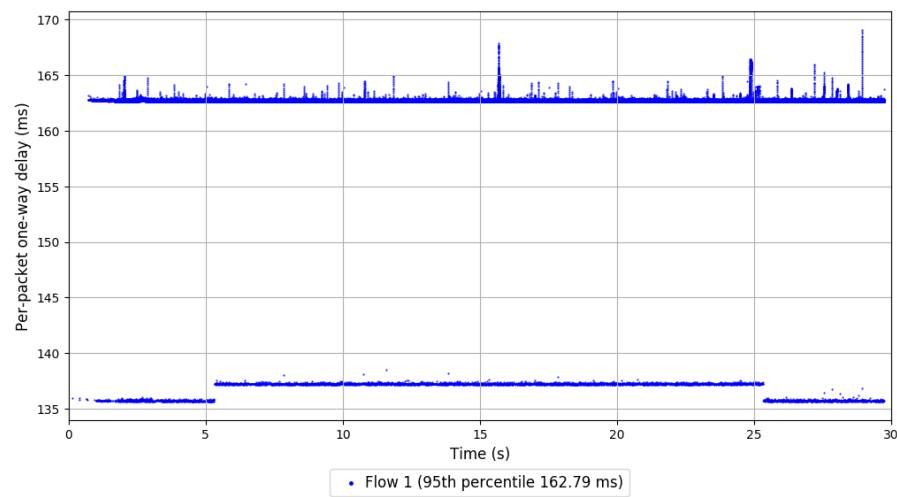
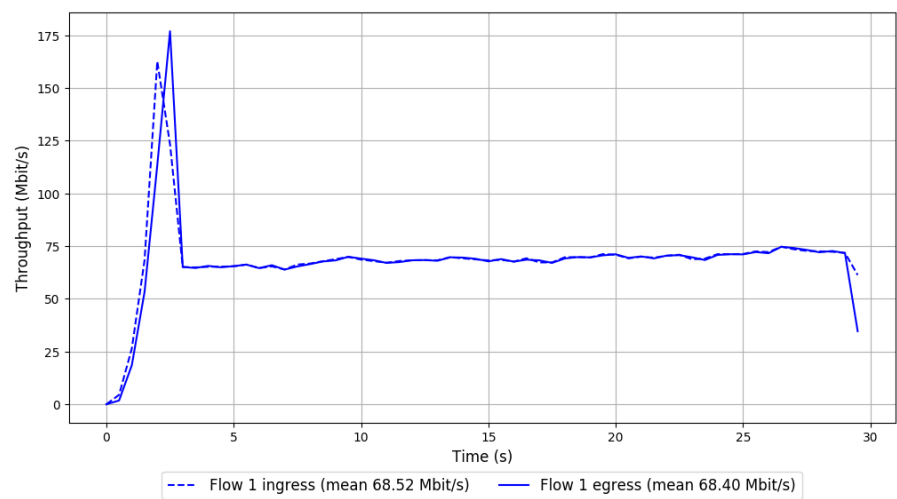
-- Flow 1:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 162.789 ms

Loss rate: 1.22%

Run 10: Report of PCC — Data Link

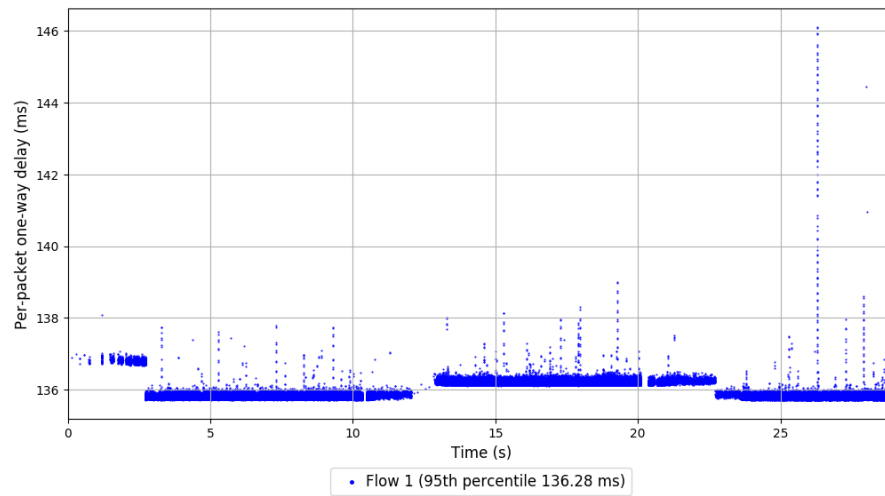
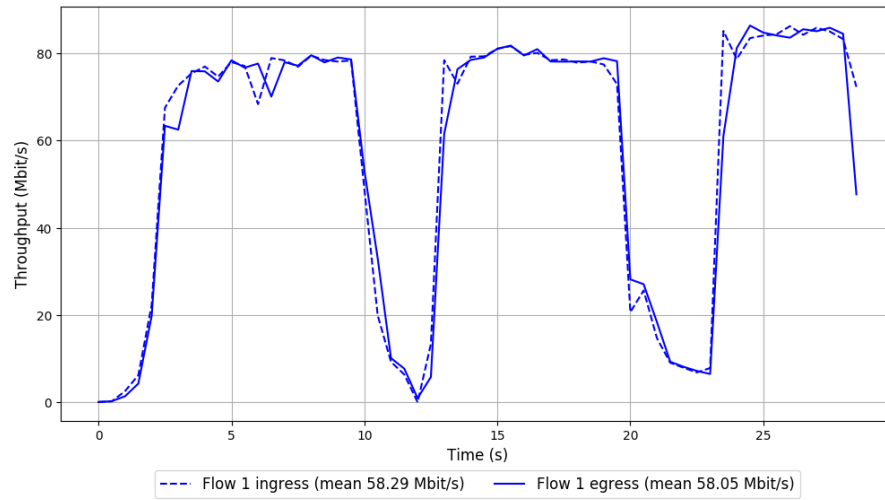


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-20 09:15:32
End at: 2018-02-20 09:16:02

# Below is generated by plot.py at 2018-02-20 14:51:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 136.285 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 136.285 ms
Loss rate: 1.37%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-20 09:31:23

End at: 2018-02-20 09:31:53

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.92 Mbit/s

95th percentile per-packet one-way delay: 141.192 ms

Loss rate: 1.08%

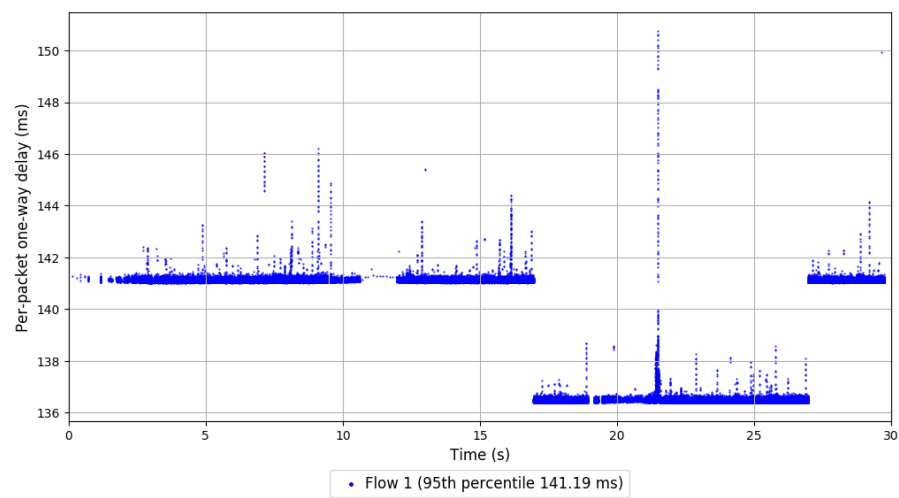
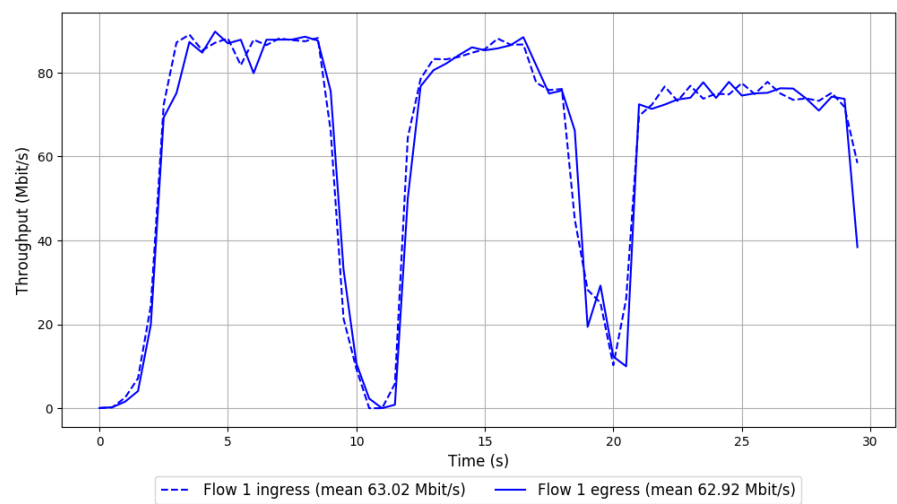
-- Flow 1:

Average throughput: 62.92 Mbit/s

95th percentile per-packet one-way delay: 141.192 ms

Loss rate: 1.08%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-20 09:46:48

End at: 2018-02-20 09:47:19

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.09 Mbit/s

95th percentile per-packet one-way delay: 162.296 ms

Loss rate: 1.49%

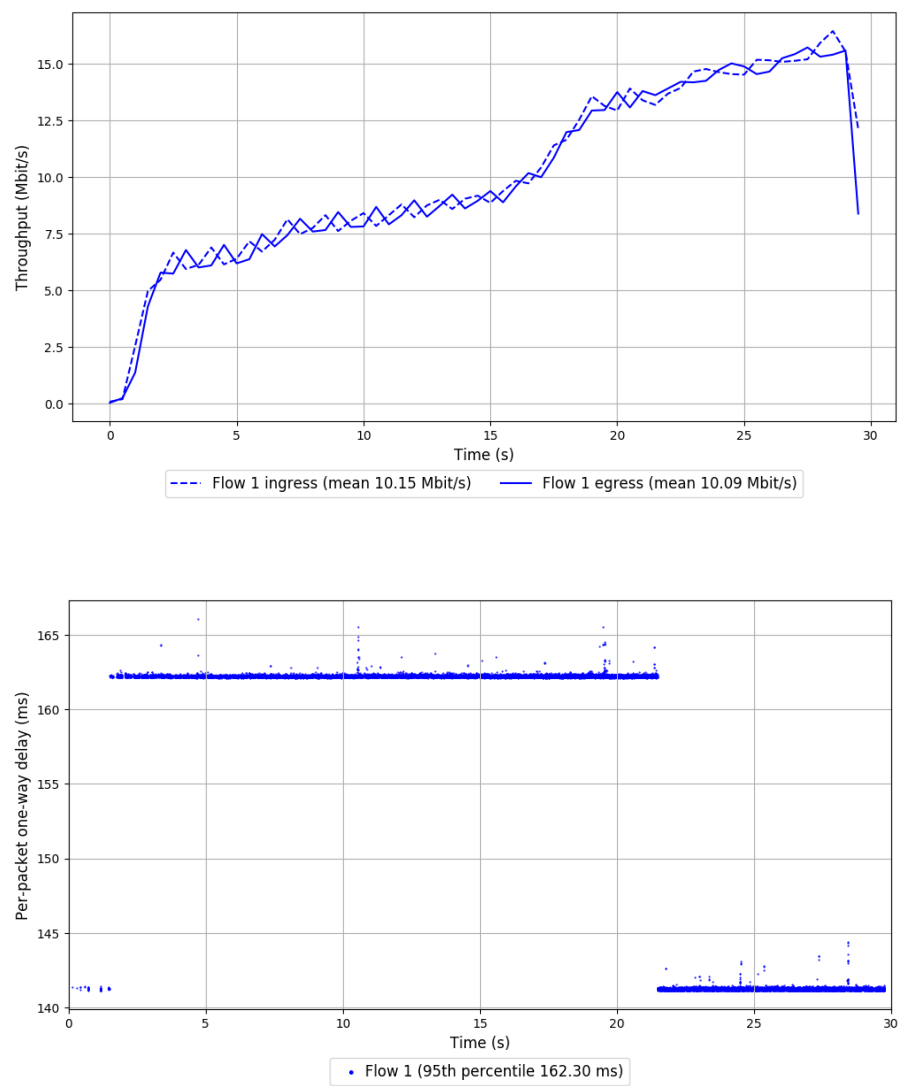
-- Flow 1:

Average throughput: 10.09 Mbit/s

95th percentile per-packet one-way delay: 162.296 ms

Loss rate: 1.49%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-20 10:02:14

End at: 2018-02-20 10:02:44

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 161.877 ms

Loss rate: 1.22%

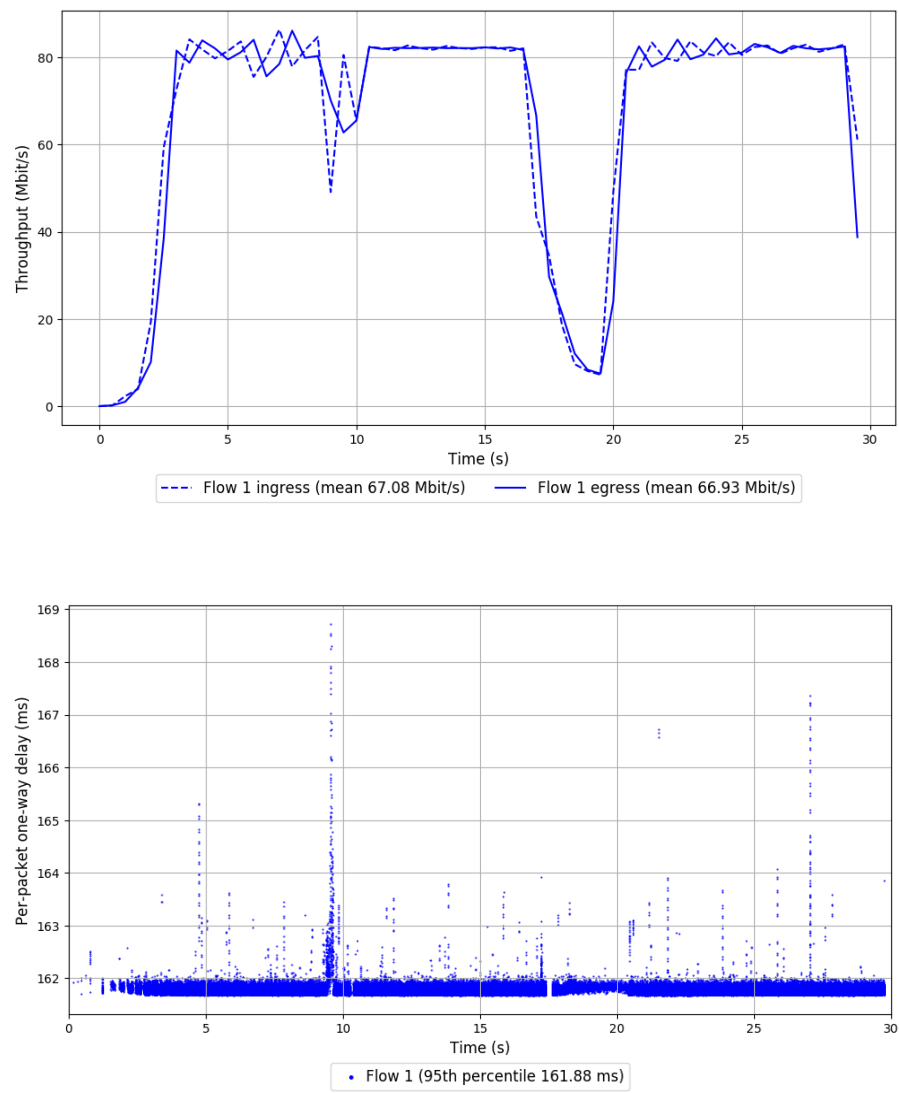
-- Flow 1:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 161.877 ms

Loss rate: 1.22%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-20 10:17:42

End at: 2018-02-20 10:18:12

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.17 Mbit/s

95th percentile per-packet one-way delay: 136.712 ms

Loss rate: 1.25%

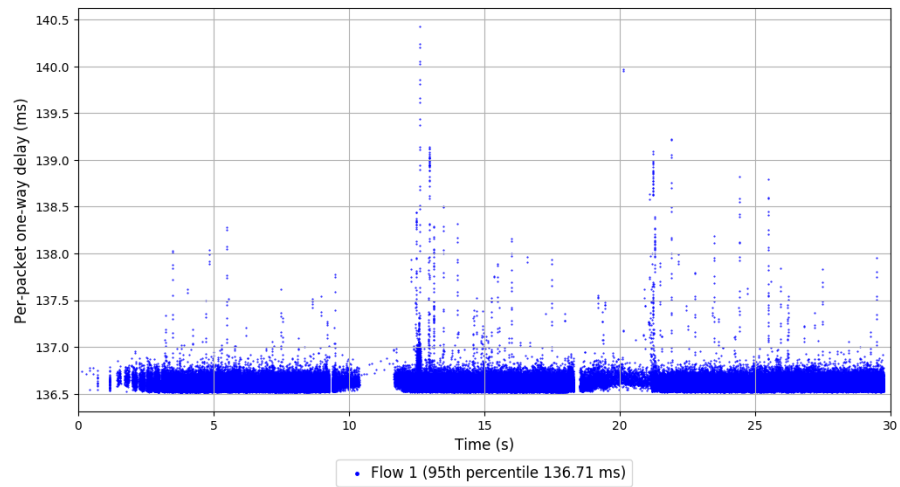
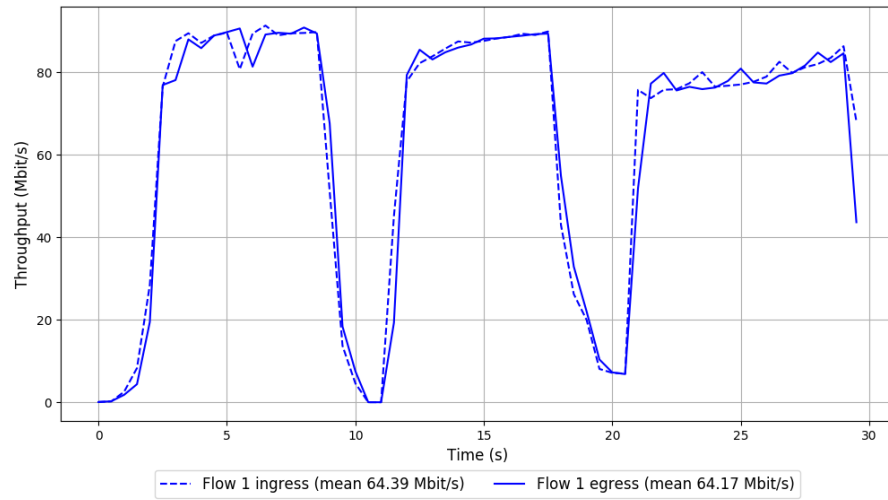
-- Flow 1:

Average throughput: 64.17 Mbit/s

95th percentile per-packet one-way delay: 136.712 ms

Loss rate: 1.25%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-20 10:33:39

End at: 2018-02-20 10:34:09

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 1.22%

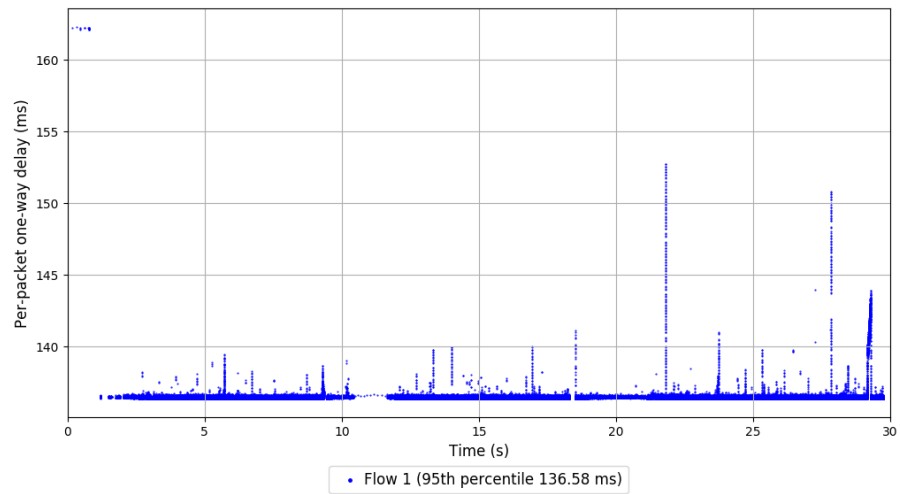
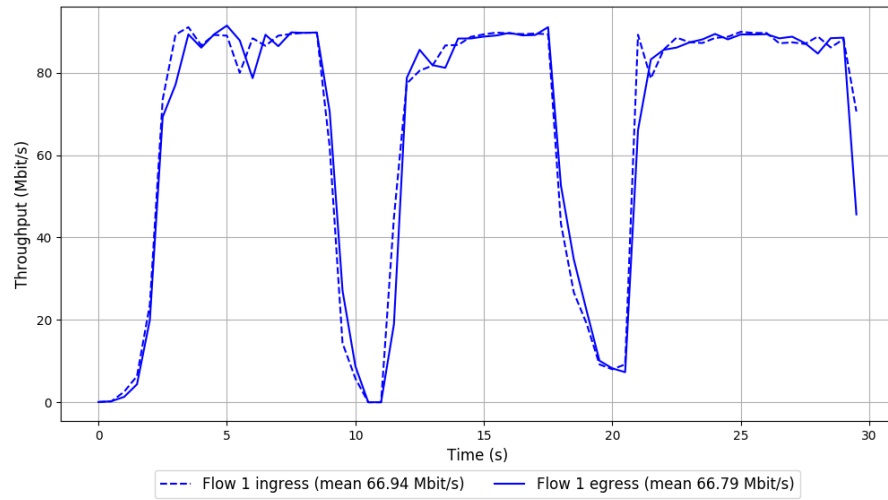
-- Flow 1:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 1.22%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-20 10:49:39

End at: 2018-02-20 10:50:09

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 1.18%

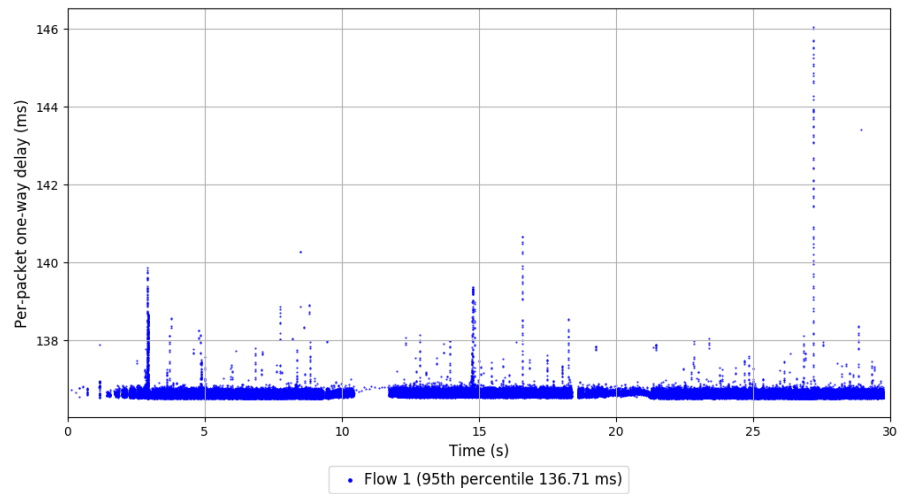
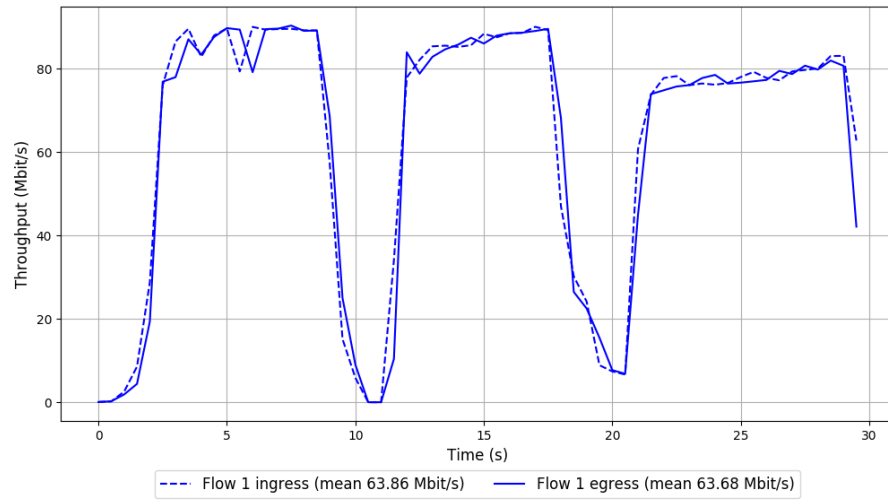
-- Flow 1:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 1.18%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-20 11:05:22

End at: 2018-02-20 11:05:52

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 136.681 ms

Loss rate: 1.23%

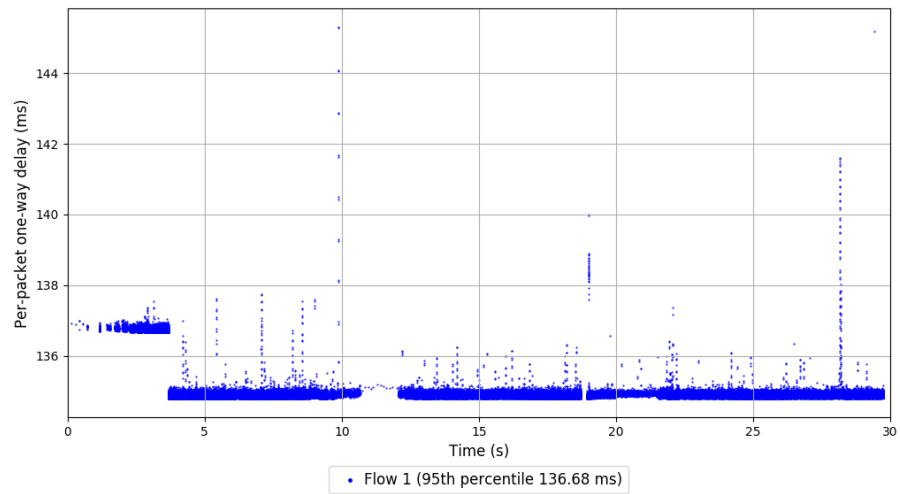
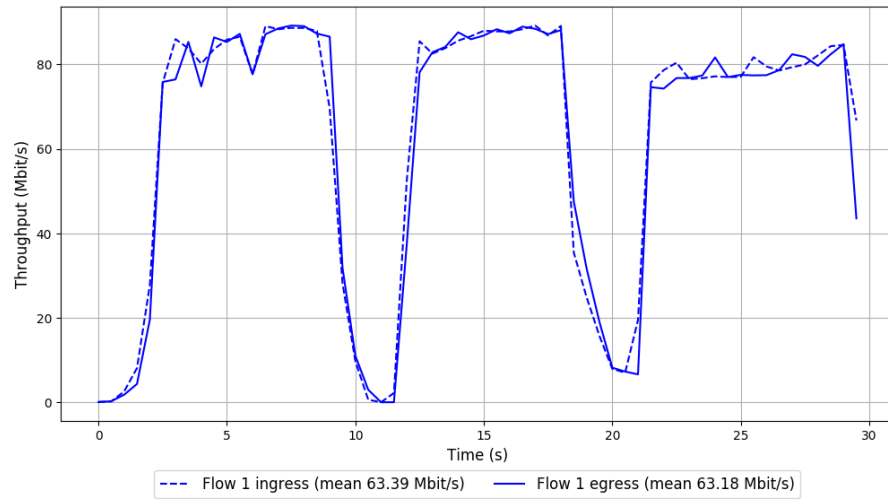
-- Flow 1:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 136.681 ms

Loss rate: 1.23%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-20 11:21:07

End at: 2018-02-20 11:21:37

Below is generated by plot.py at 2018-02-20 14:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 162.840 ms

Loss rate: 1.20%

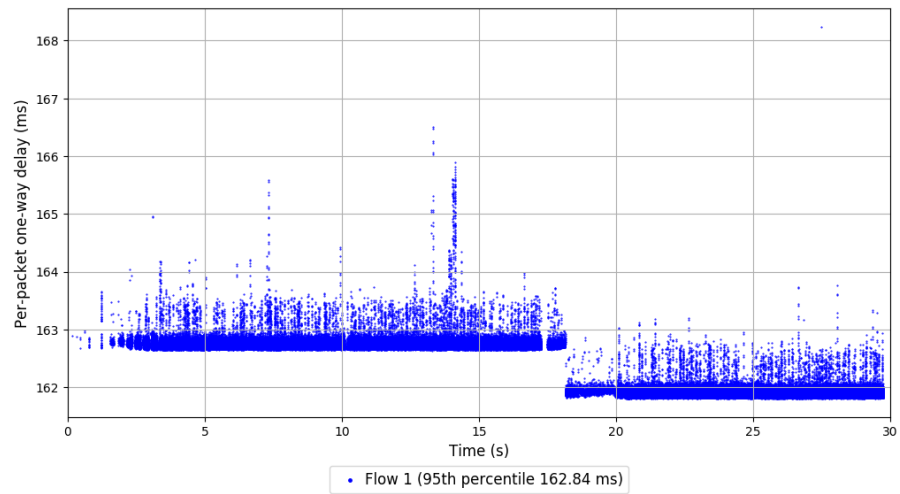
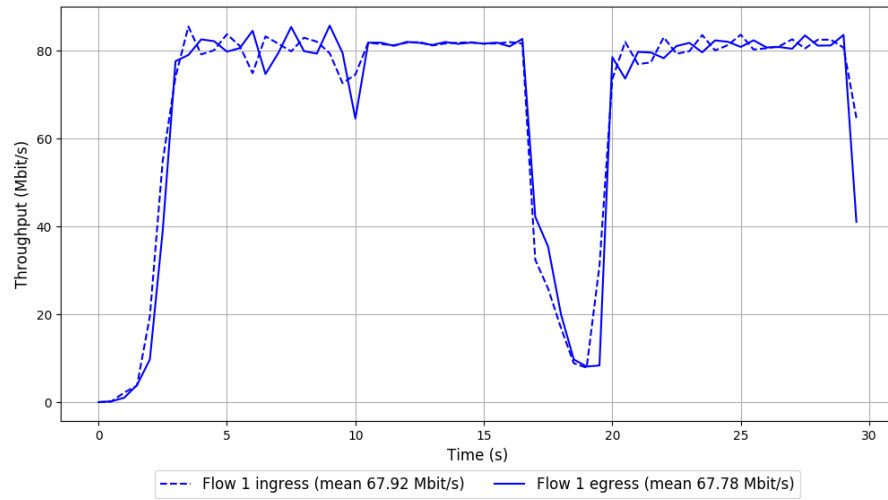
-- Flow 1:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 162.840 ms

Loss rate: 1.20%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-20 11:36:26

End at: 2018-02-20 11:36:56

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 162.711 ms

Loss rate: 1.18%

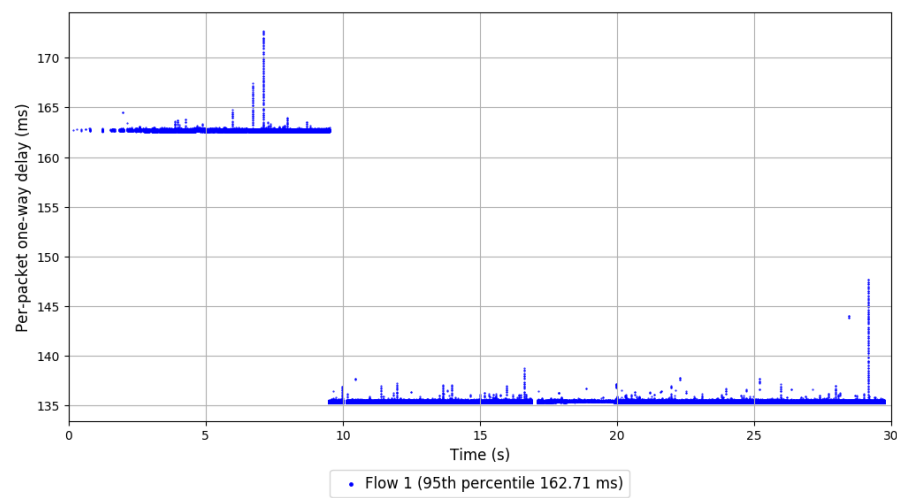
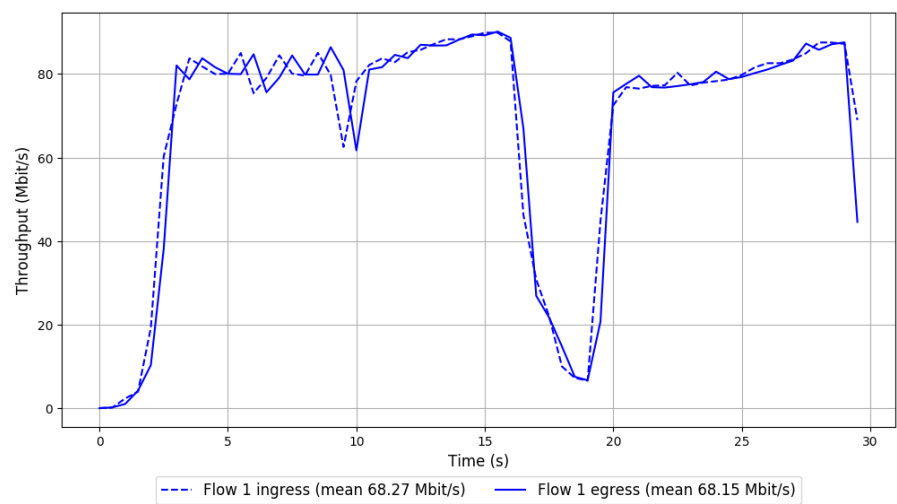
-- Flow 1:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 162.711 ms

Loss rate: 1.18%

Run 10: Report of QUIC Cubic — Data Link

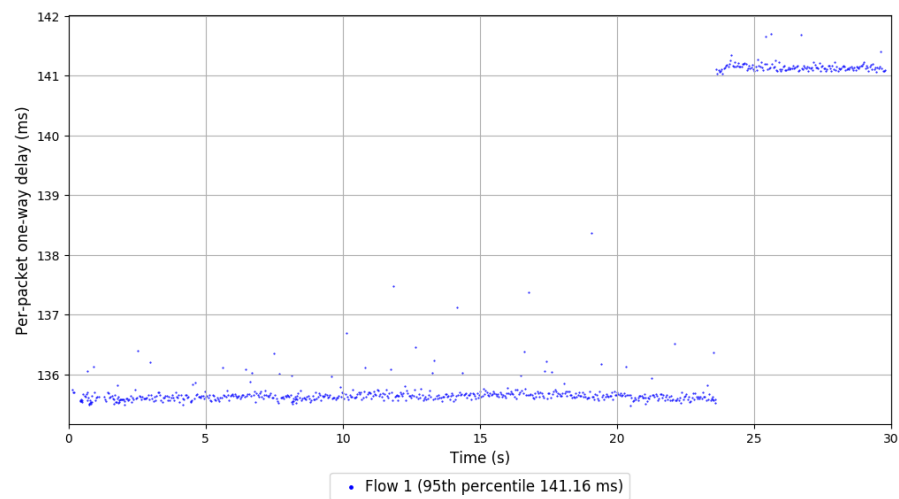
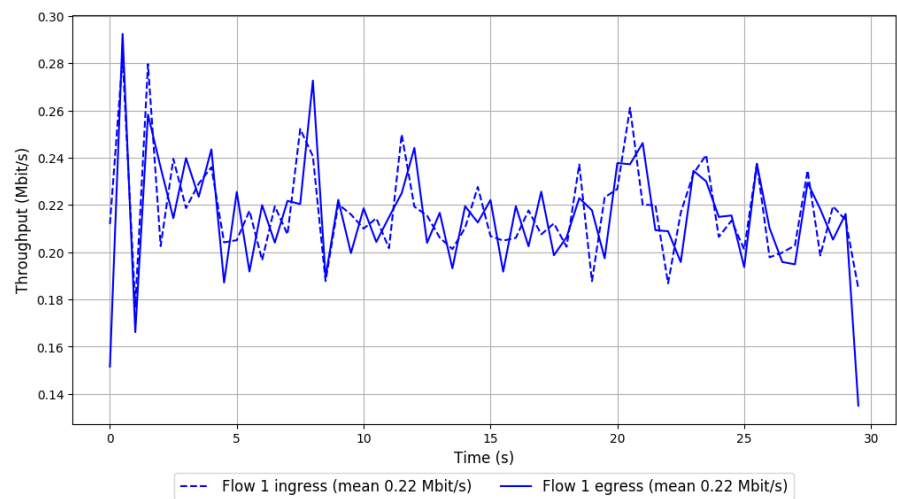


```
Run 1: Statistics of SCReAM

Start at: 2018-02-20 09:10:32
End at: 2018-02-20 09:11:02

# Below is generated by plot.py at 2018-02-20 14:51:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 141.165 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 141.165 ms
Loss rate: 0.90%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-20 09:26:27

End at: 2018-02-20 09:26:57

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.258 ms

Loss rate: 0.89%

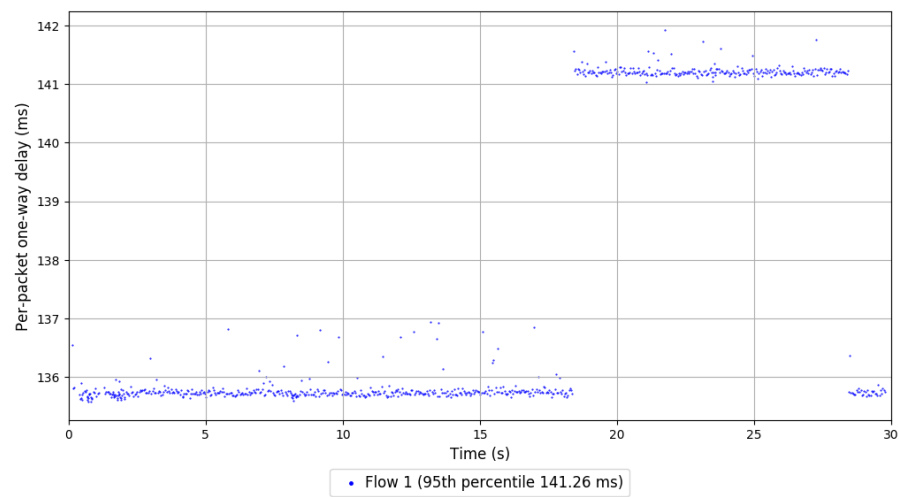
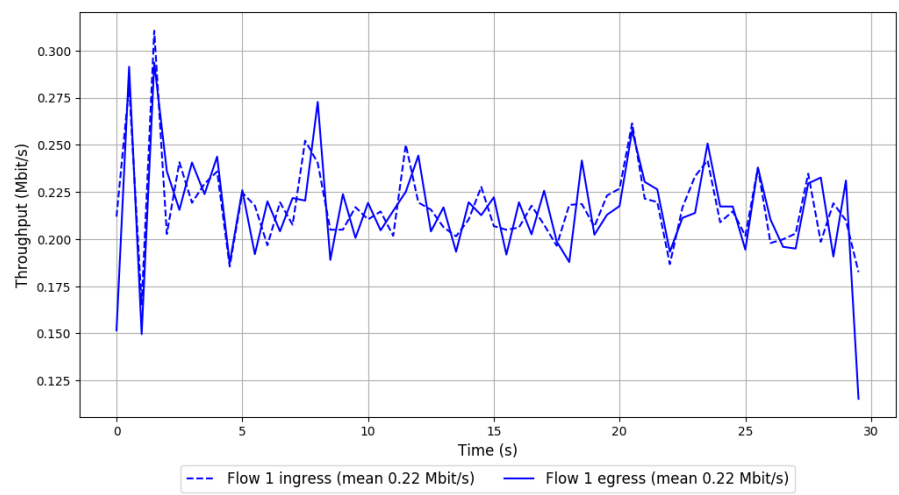
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.258 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-20 09:42:10

End at: 2018-02-20 09:42:40

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 162.242 ms

Loss rate: 0.72%

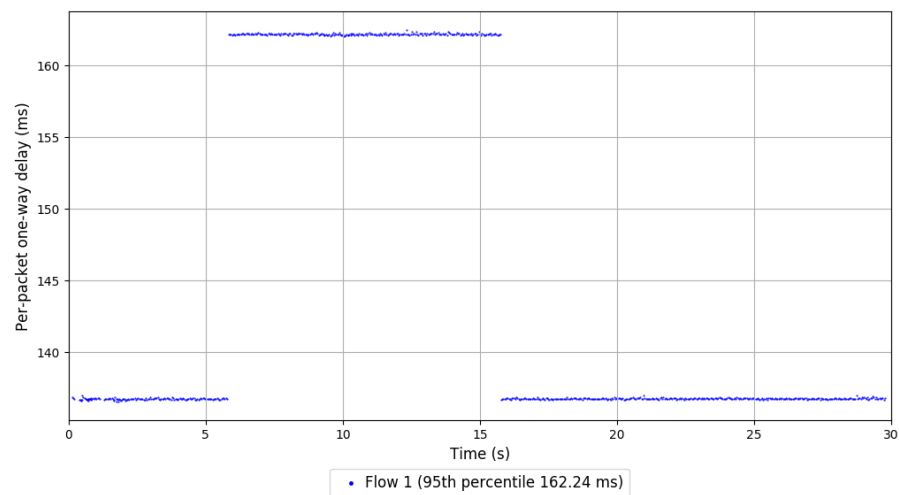
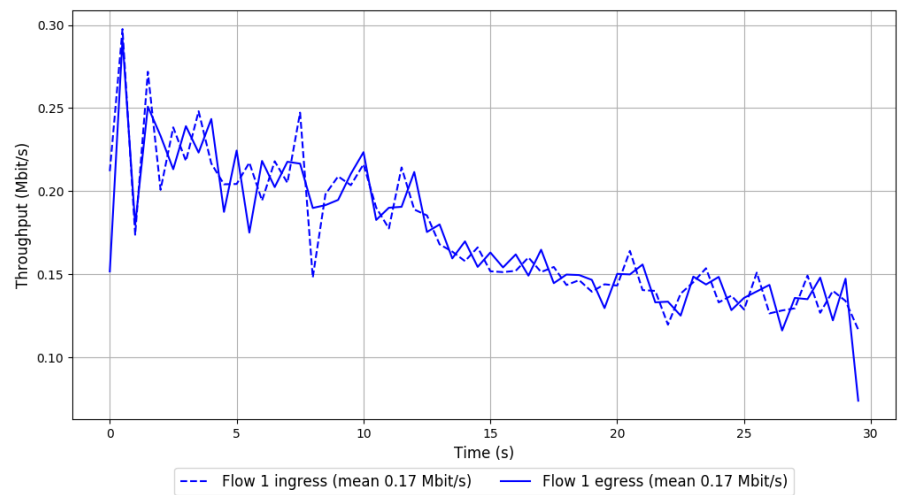
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 162.242 ms

Loss rate: 0.72%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-20 09:57:19

End at: 2018-02-20 09:57:49

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 162.011 ms

Loss rate: 0.81%

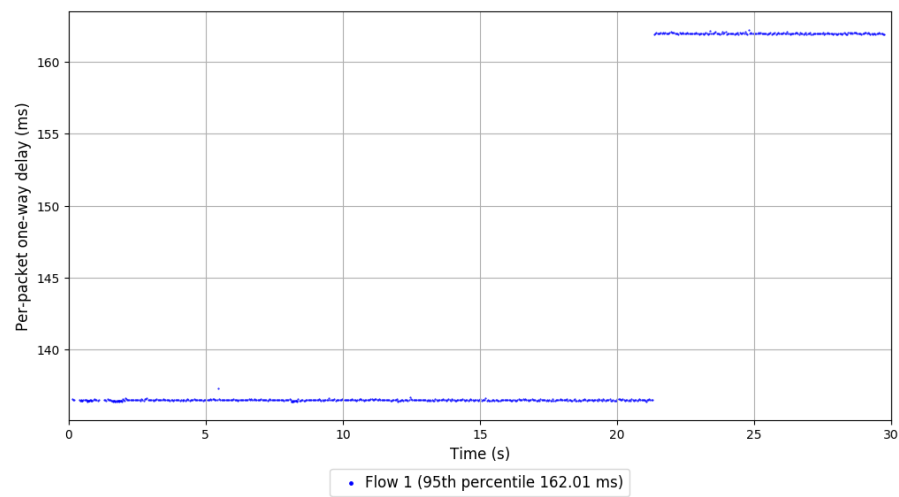
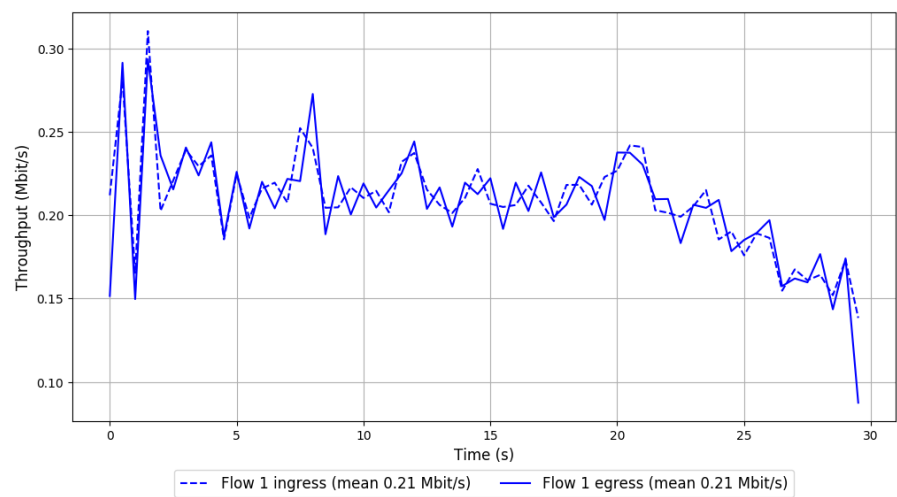
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 162.011 ms

Loss rate: 0.81%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-20 10:13:06

End at: 2018-02-20 10:13:36

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.89%

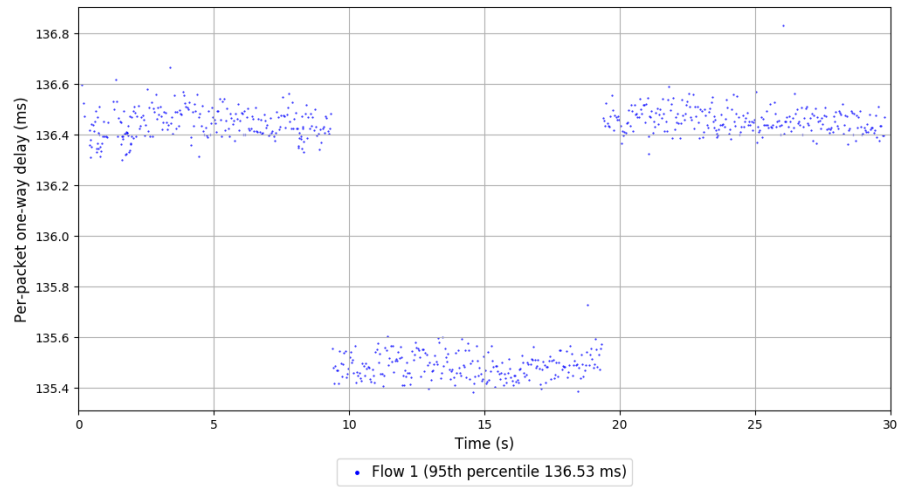
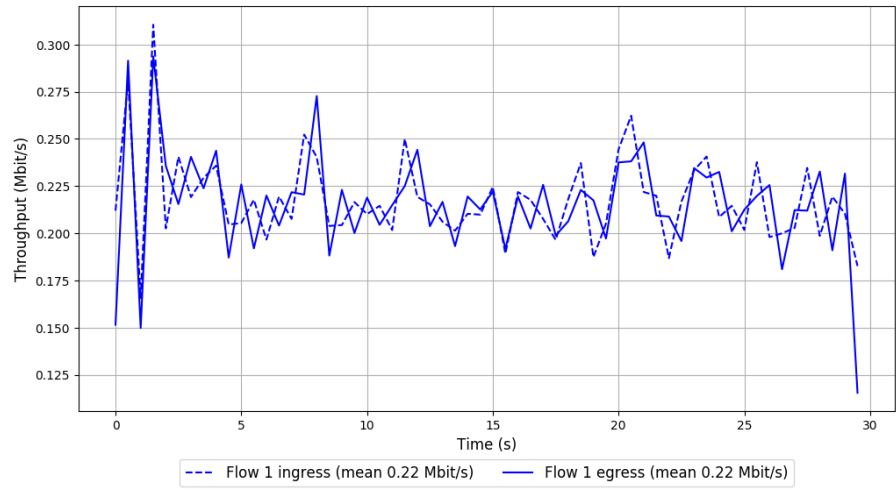
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-20 10:28:39

End at: 2018-02-20 10:29:09

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.802 ms

Loss rate: 0.90%

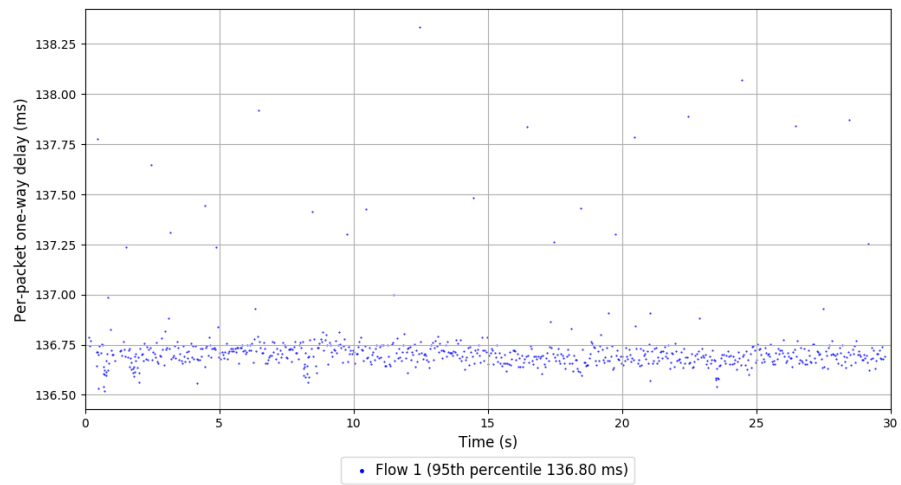
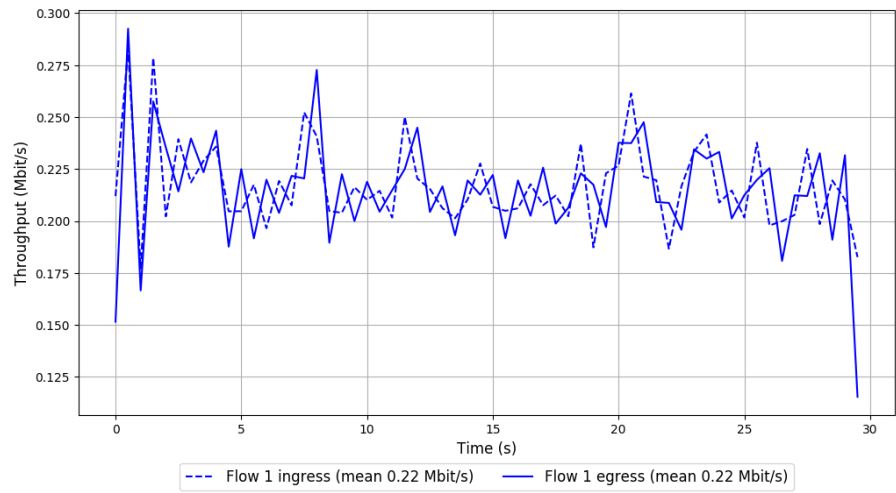
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.802 ms

Loss rate: 0.90%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-20 10:44:41

End at: 2018-02-20 10:45:11

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.542 ms

Loss rate: 0.77%

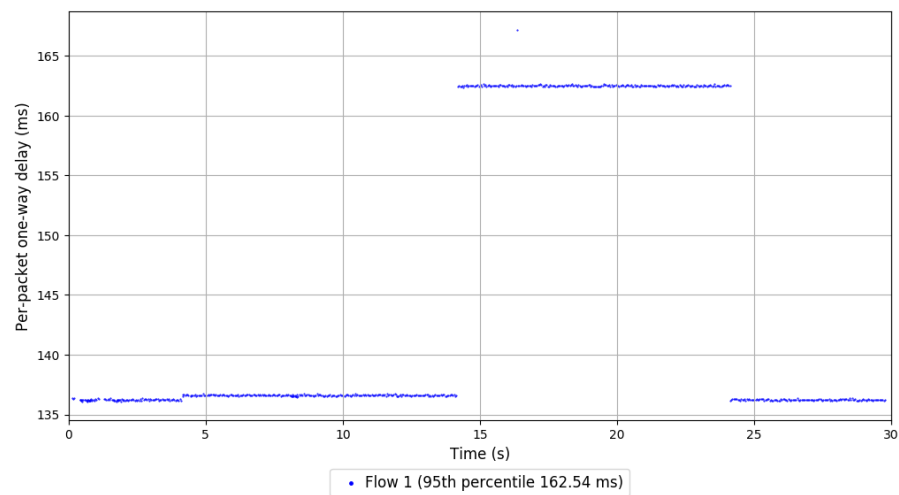
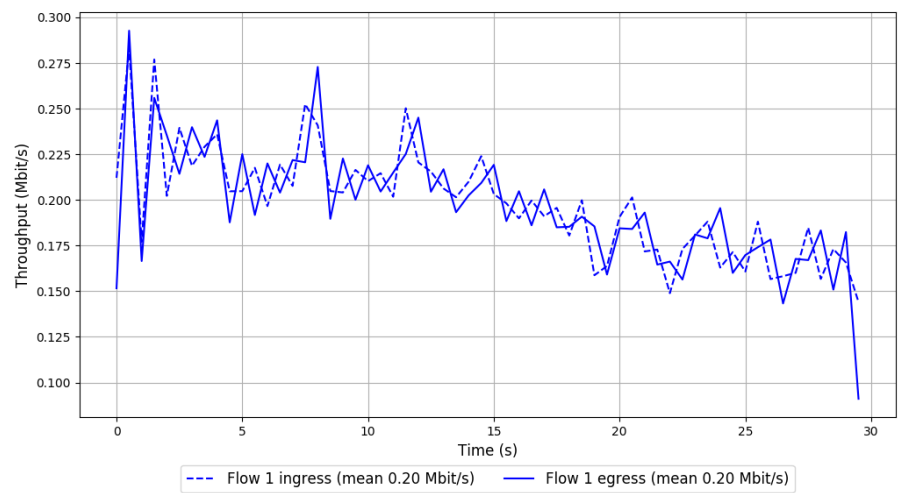
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.542 ms

Loss rate: 0.77%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-20 11:00:22

End at: 2018-02-20 11:00:52

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 162.890 ms

Loss rate: 0.67%

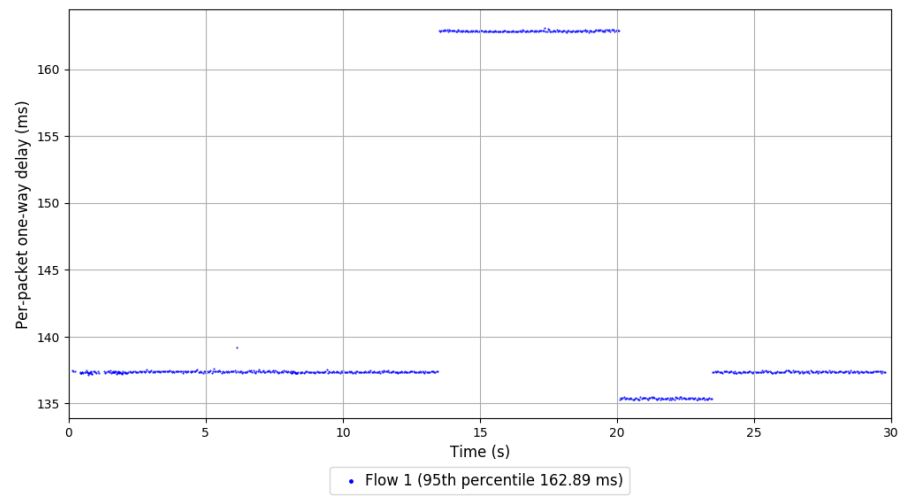
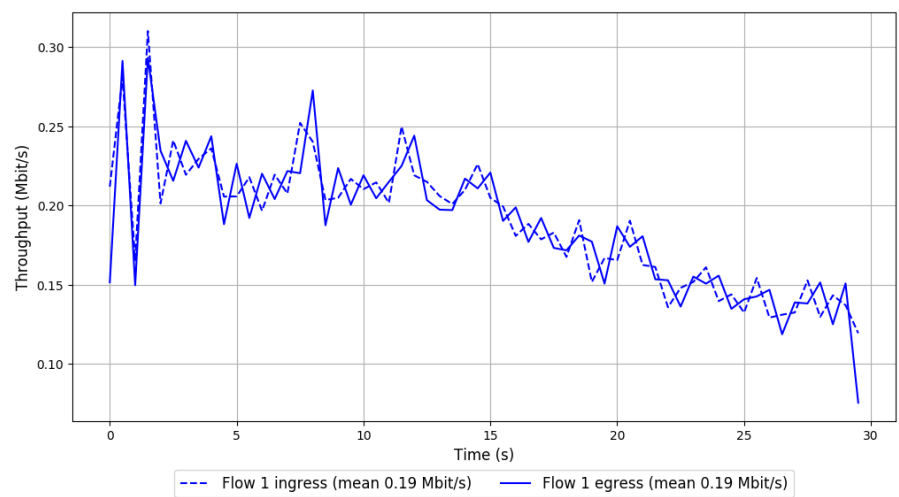
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 162.890 ms

Loss rate: 0.67%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-20 11:16:10

End at: 2018-02-20 11:16:40

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.526 ms

Loss rate: 0.89%

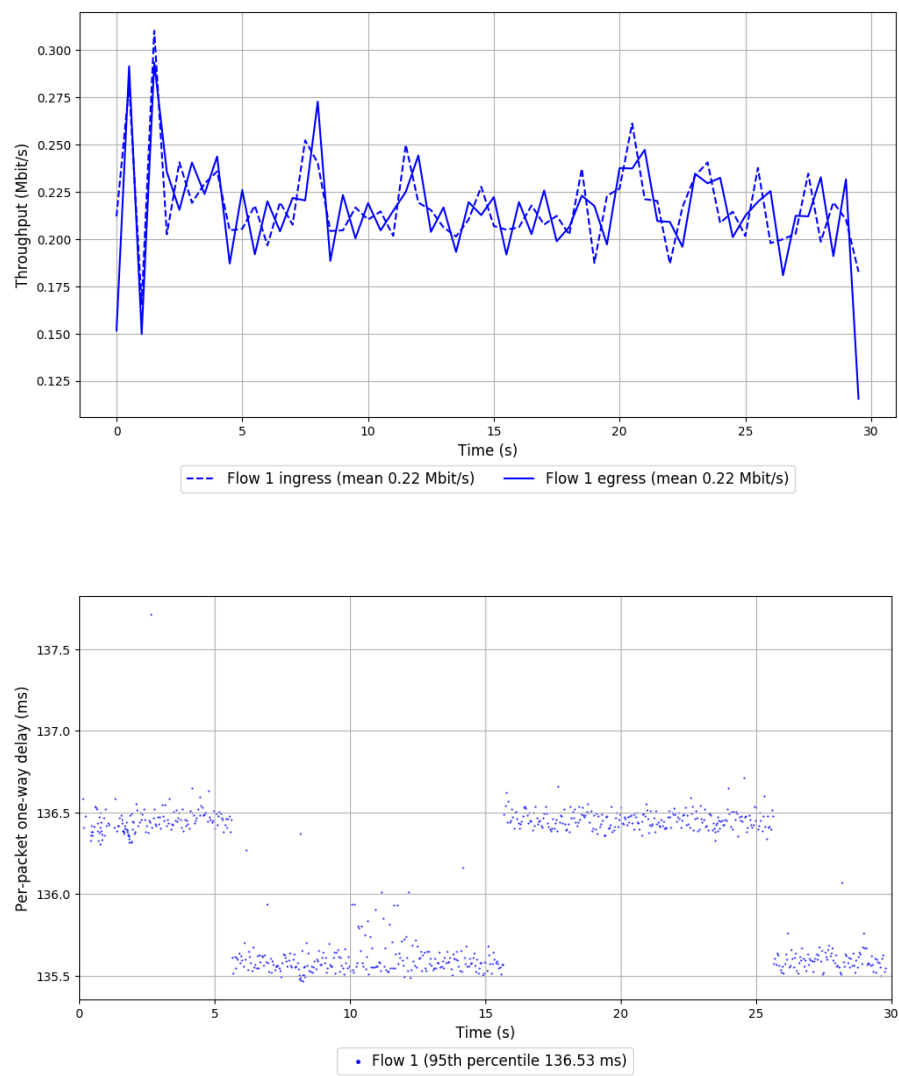
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.526 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-02-20 11:31:47

End at: 2018-02-20 11:32:17

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 164.038 ms

Loss rate: 1.03%

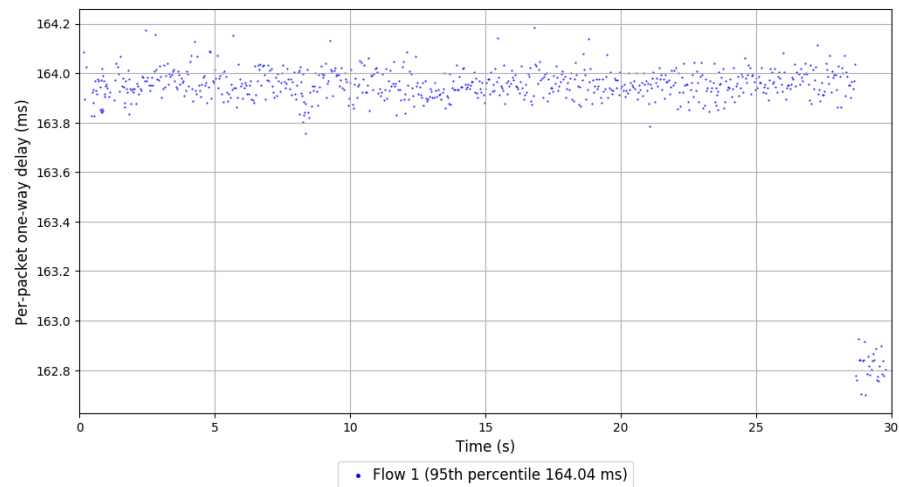
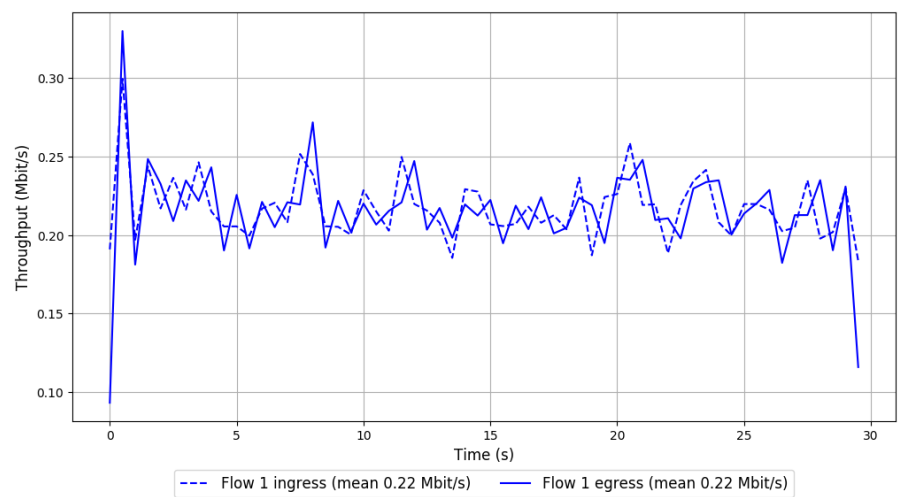
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 164.038 ms

Loss rate: 1.03%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-20 09:13:45

End at: 2018-02-20 09:14:15

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 136.878 ms

Loss rate: 1.45%

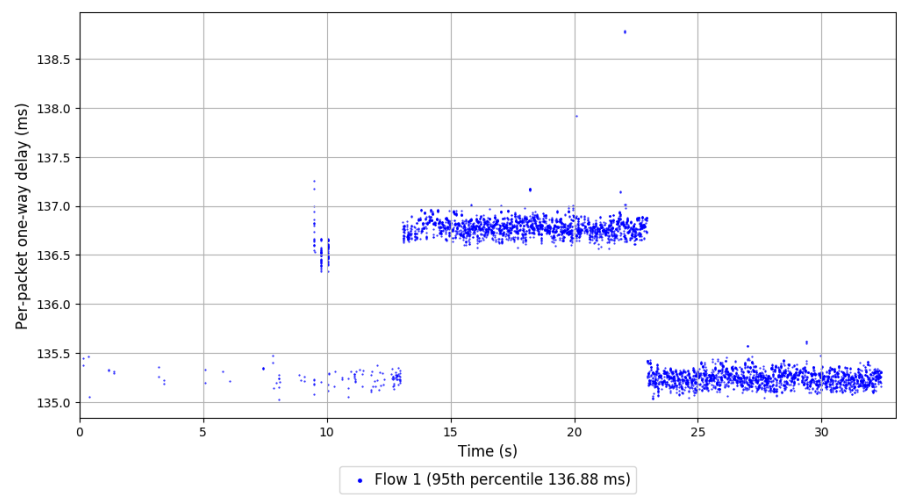
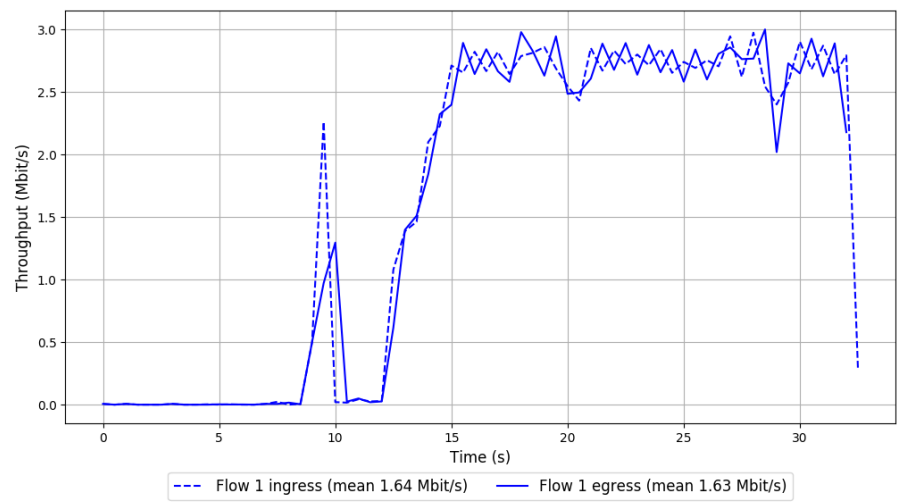
-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 136.878 ms

Loss rate: 1.45%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-20 09:29:37

End at: 2018-02-20 09:30:07

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 135.855 ms

Loss rate: 1.10%

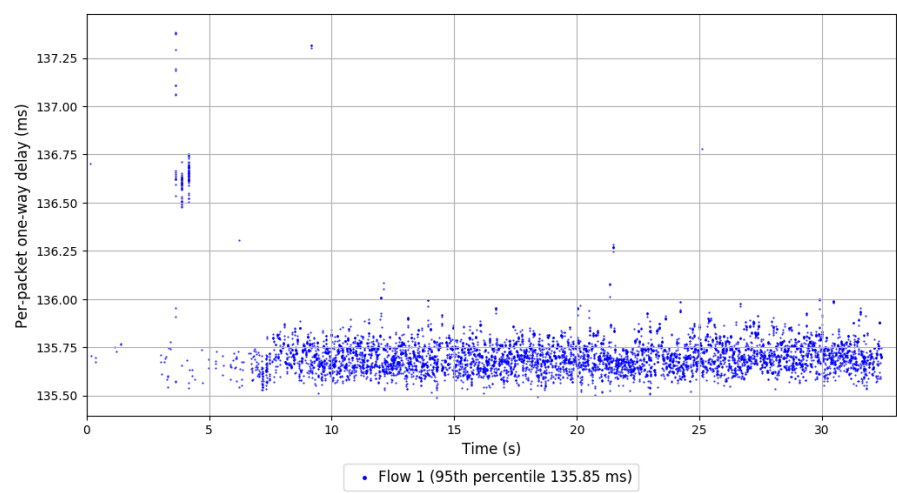
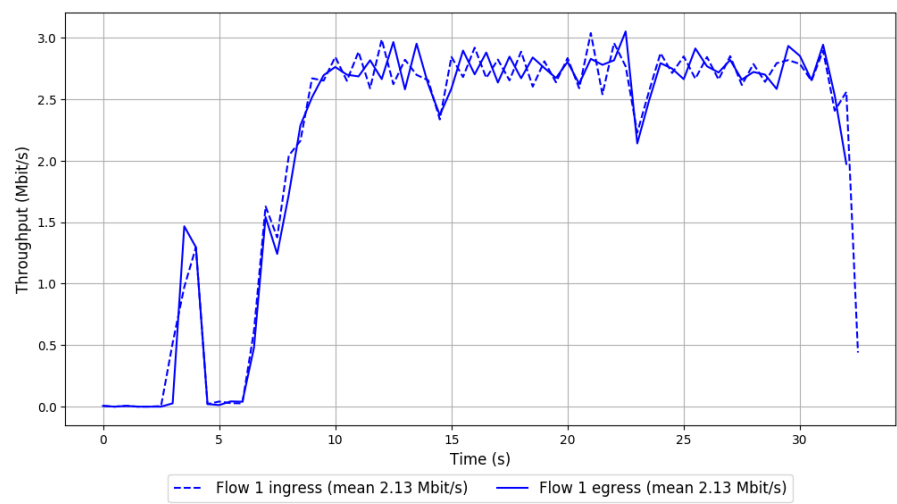
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 135.855 ms

Loss rate: 1.10%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-20 09:45:22

End at: 2018-02-20 09:45:52

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.856 ms

Loss rate: 1.01%

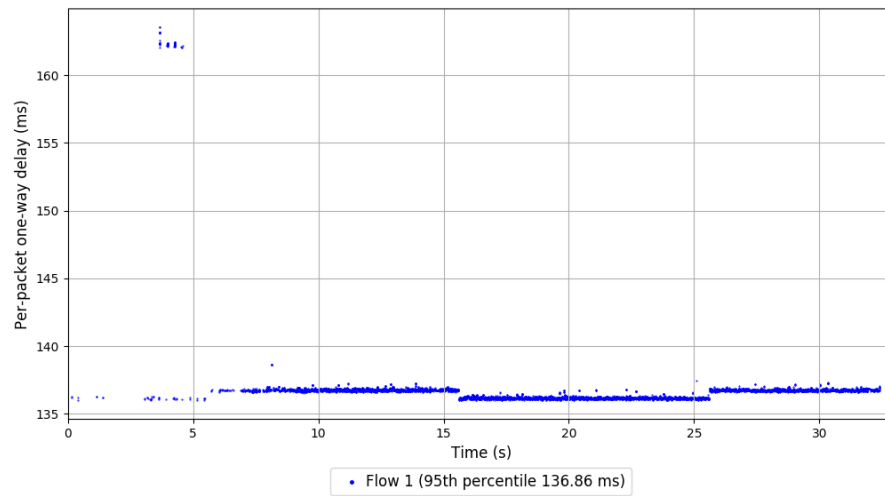
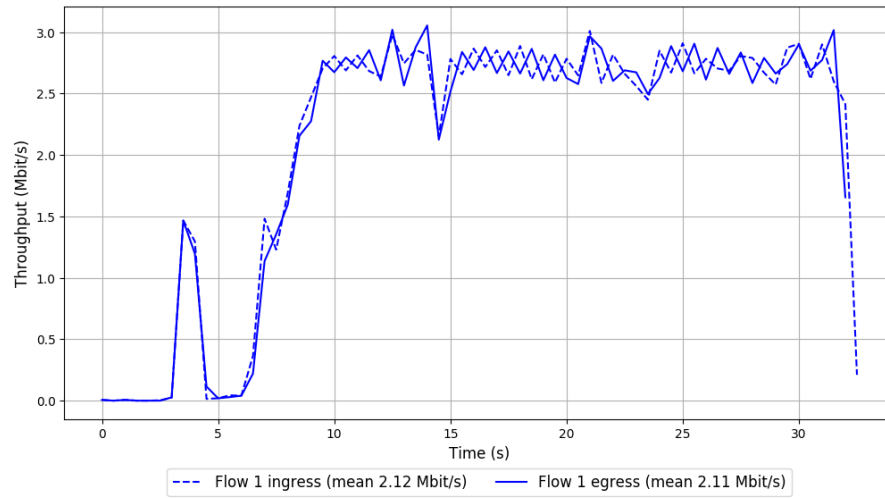
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.856 ms

Loss rate: 1.01%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-20 10:00:28

End at: 2018-02-20 10:00:58

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 141.391 ms

Loss rate: 1.06%

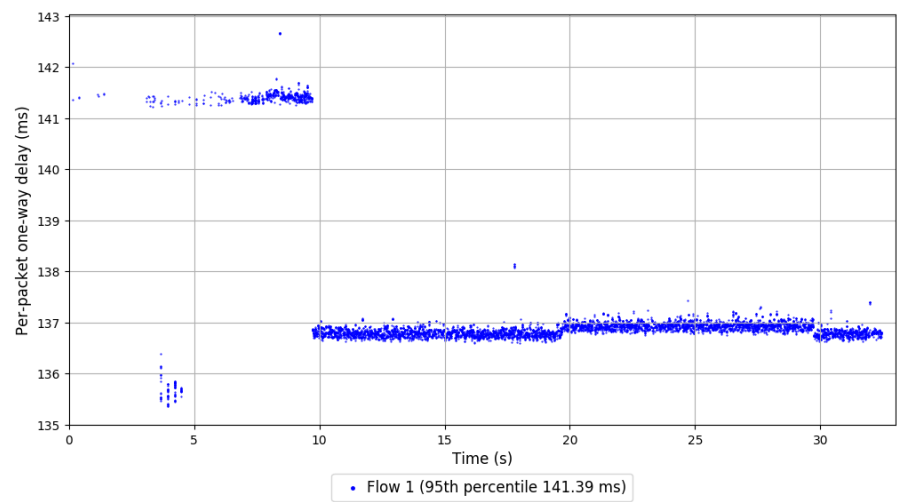
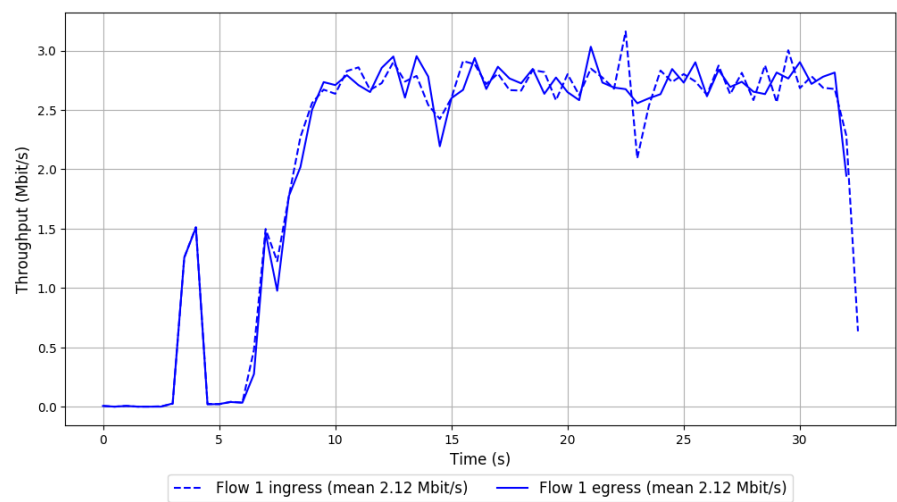
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 141.391 ms

Loss rate: 1.06%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-20 10:16:17

End at: 2018-02-20 10:16:47

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 162.055 ms

Loss rate: 1.10%

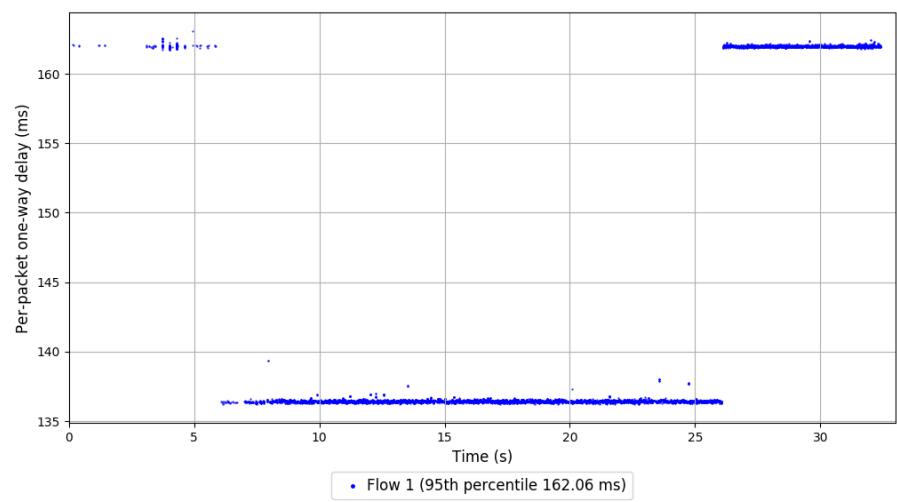
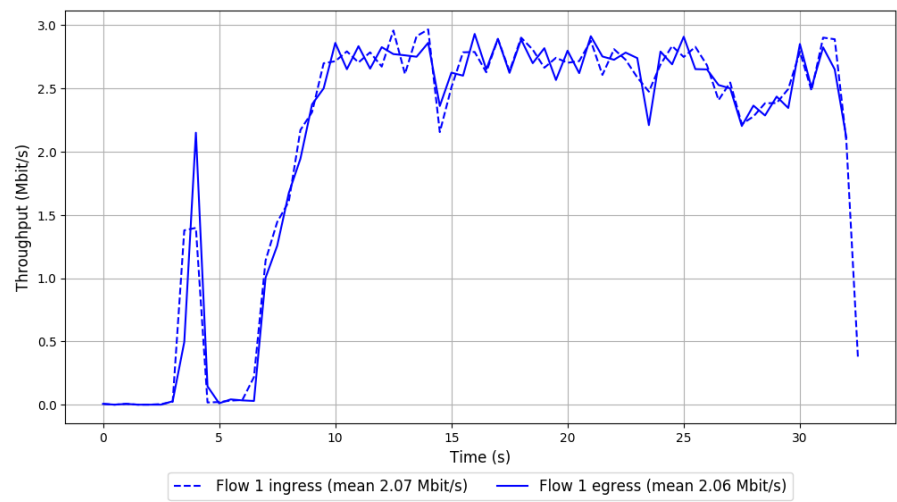
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 162.055 ms

Loss rate: 1.10%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-20 10:31:50

End at: 2018-02-20 10:32:20

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.423 ms

Loss rate: 1.05%

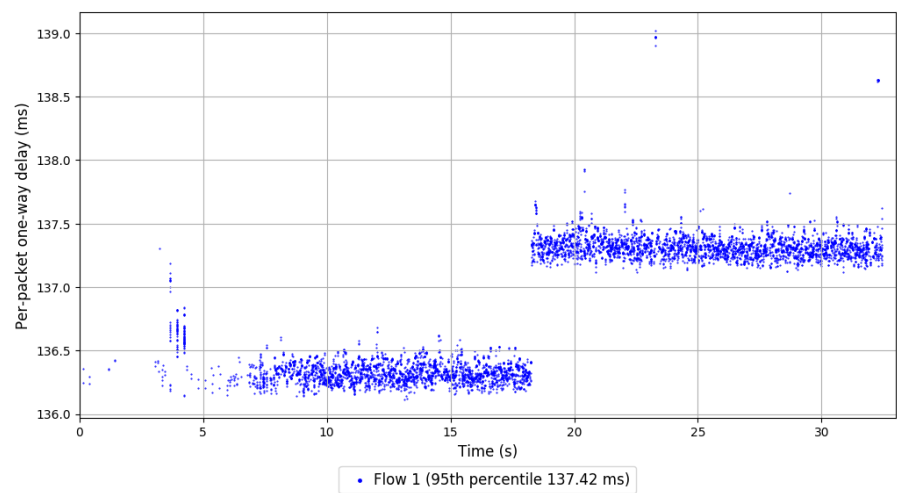
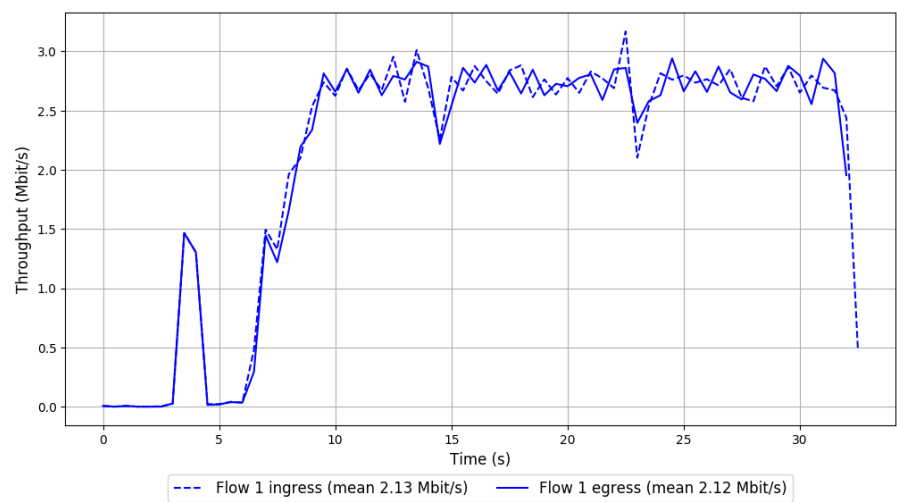
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.423 ms

Loss rate: 1.05%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-20 10:47:52

End at: 2018-02-20 10:48:22

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 162.390 ms

Loss rate: 1.22%

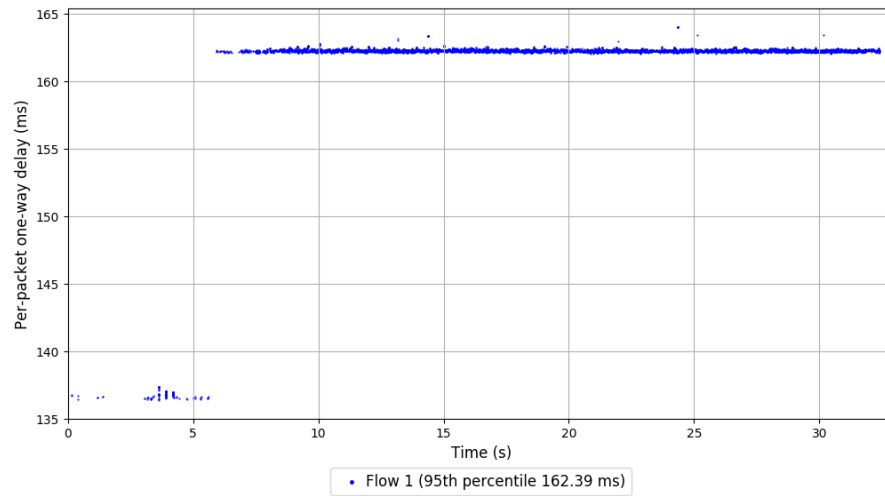
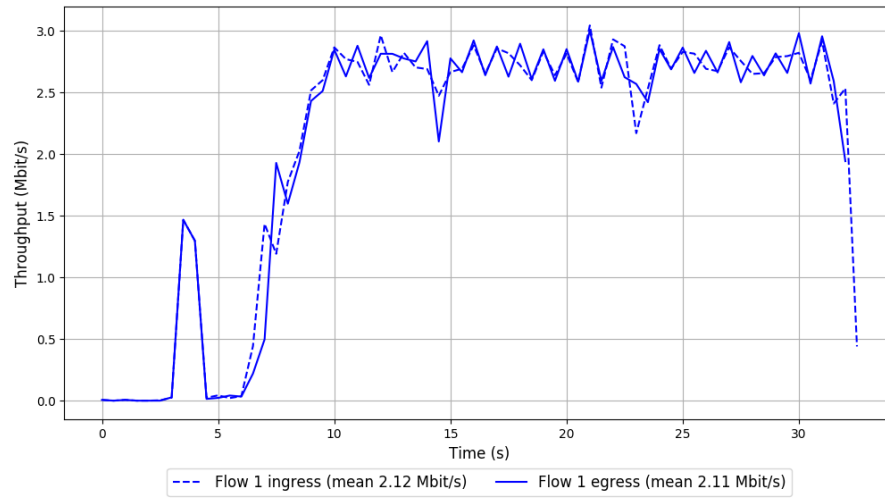
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 162.390 ms

Loss rate: 1.22%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-20 11:03:33

End at: 2018-02-20 11:04:03

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 163.863 ms

Loss rate: 1.15%

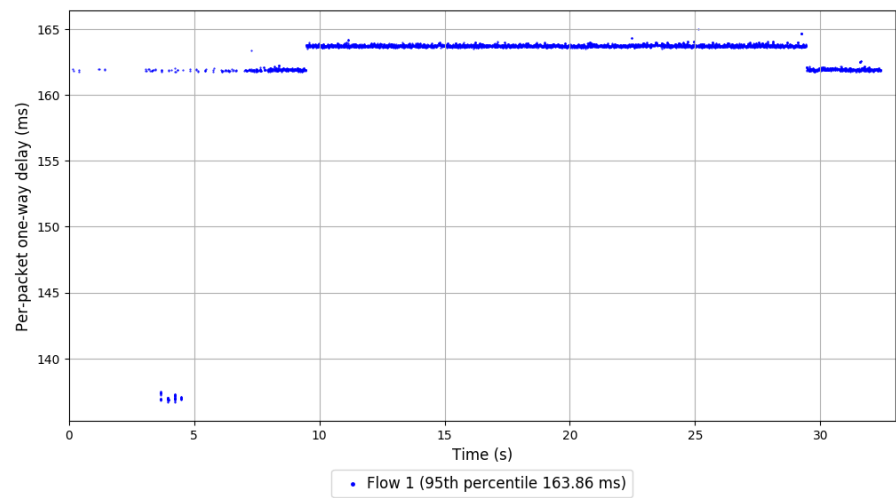
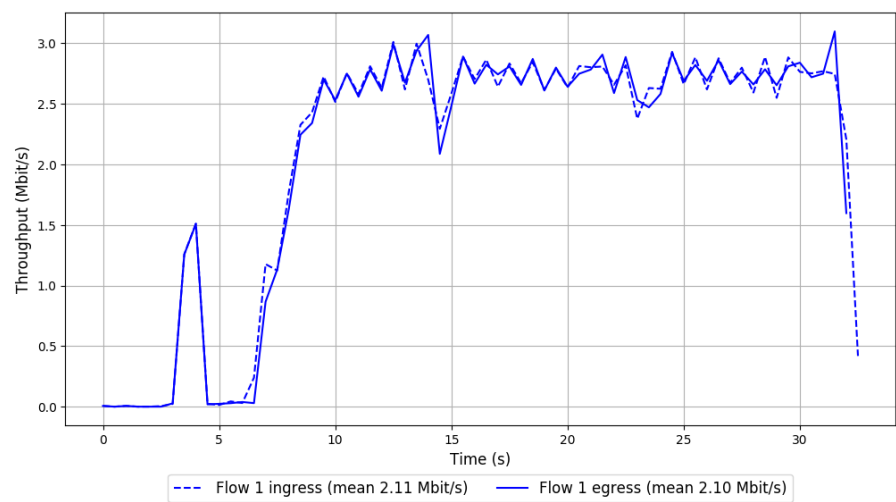
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 163.863 ms

Loss rate: 1.15%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-20 11:19:21

End at: 2018-02-20 11:19:51

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.115 ms

Loss rate: 1.03%

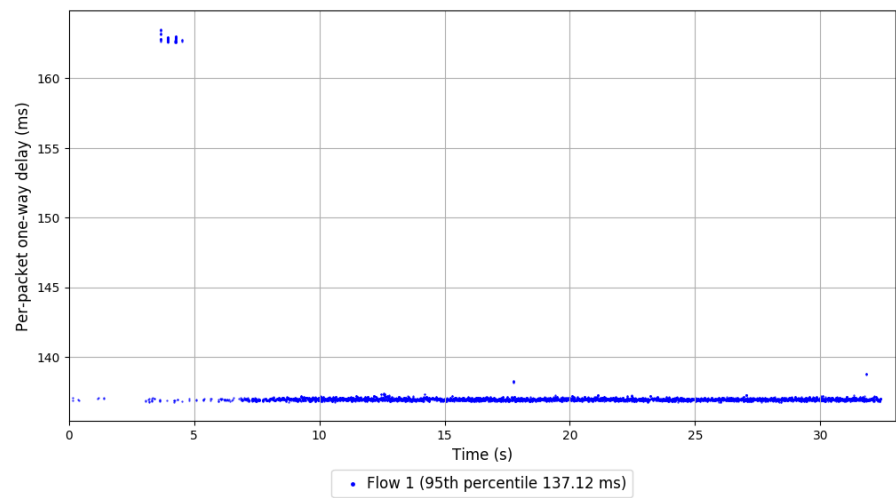
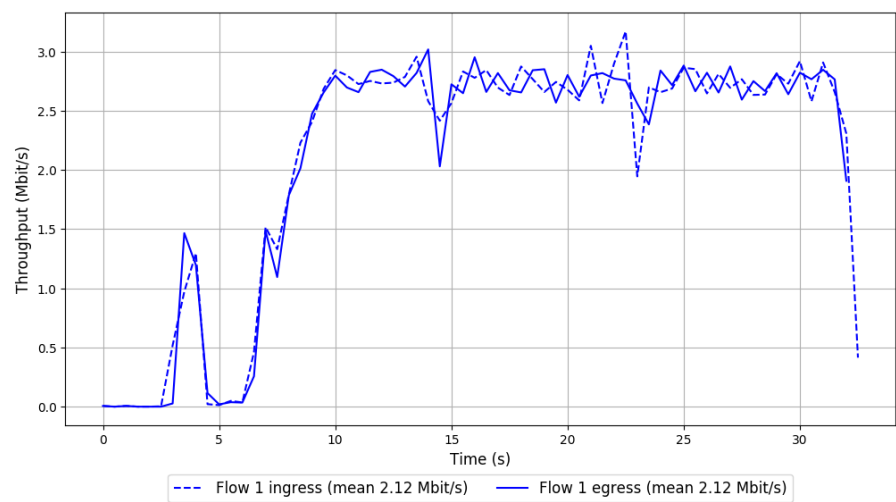
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.115 ms

Loss rate: 1.03%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-20 11:34:57

End at: 2018-02-20 11:35:28

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 162.900 ms

Loss rate: 1.00%

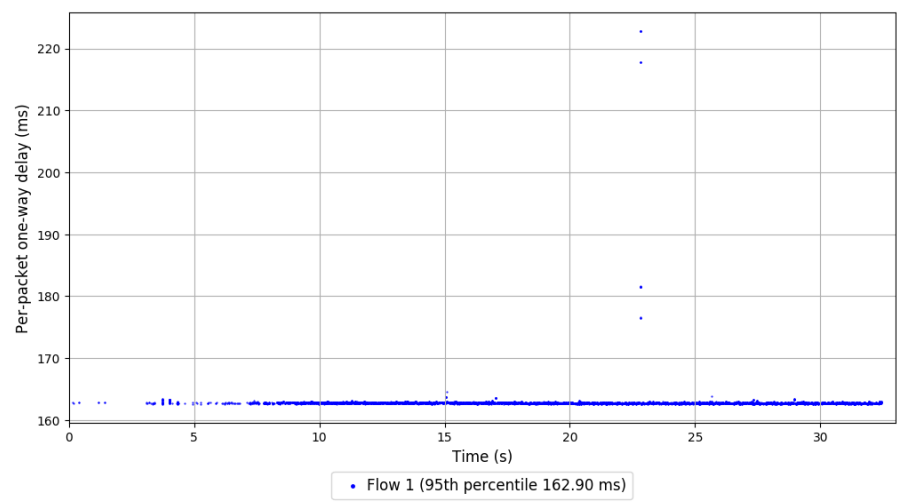
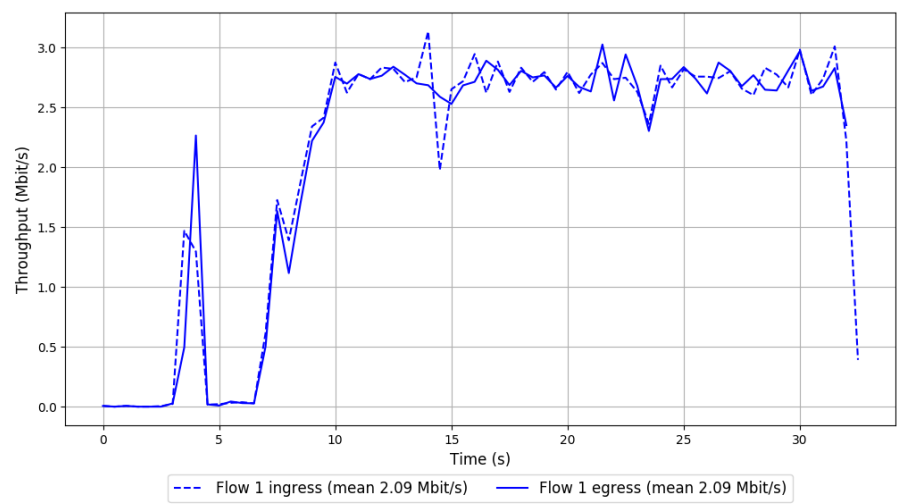
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 162.900 ms

Loss rate: 1.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-20 09:20:43

End at: 2018-02-20 09:21:13

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 162.125 ms

Loss rate: 0.22%

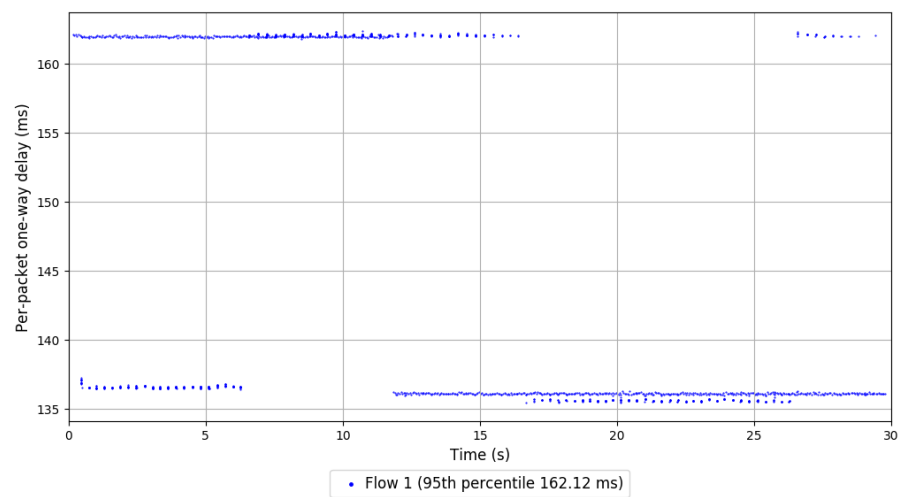
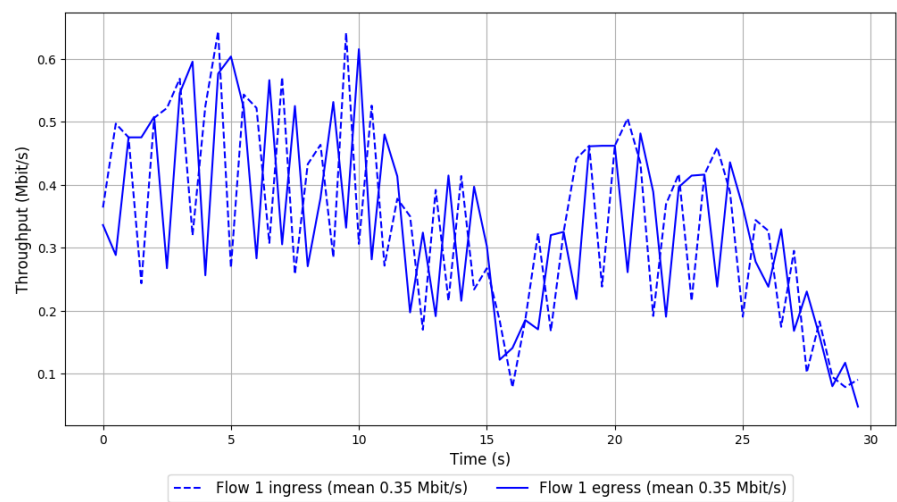
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 162.125 ms

Loss rate: 0.22%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-20 09:36:23

End at: 2018-02-20 09:36:53

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 162.672 ms

Loss rate: 1.22%

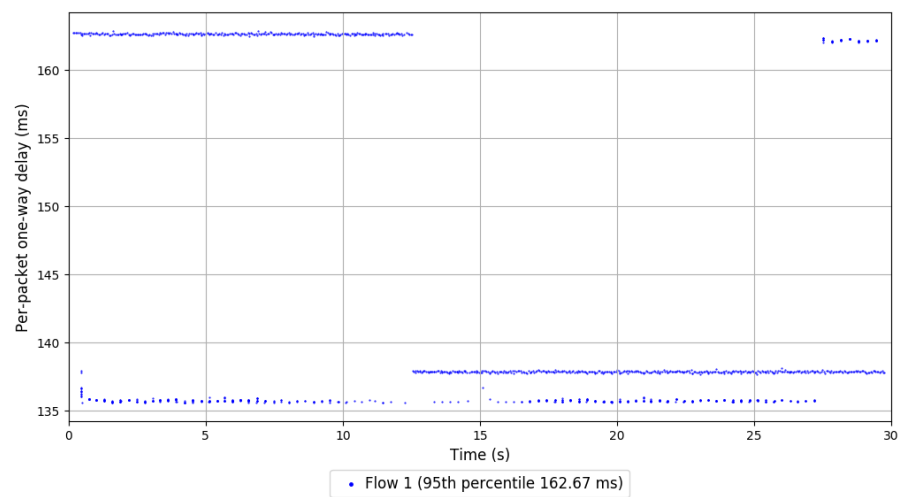
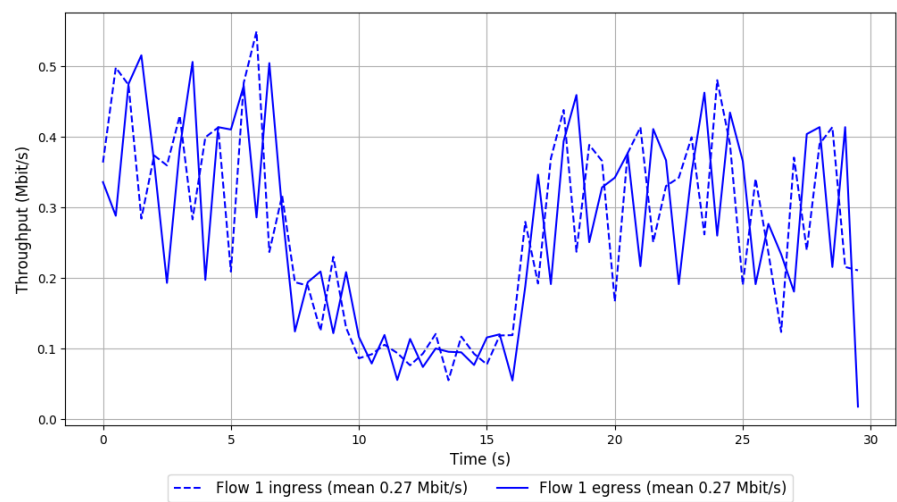
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 162.672 ms

Loss rate: 1.22%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-20 09:51:44

End at: 2018-02-20 09:52:14

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 162.270 ms

Loss rate: 1.28%

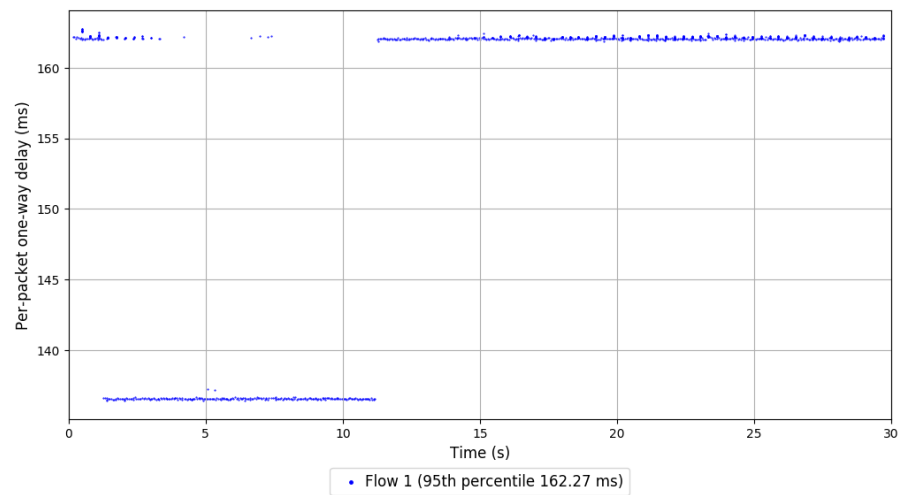
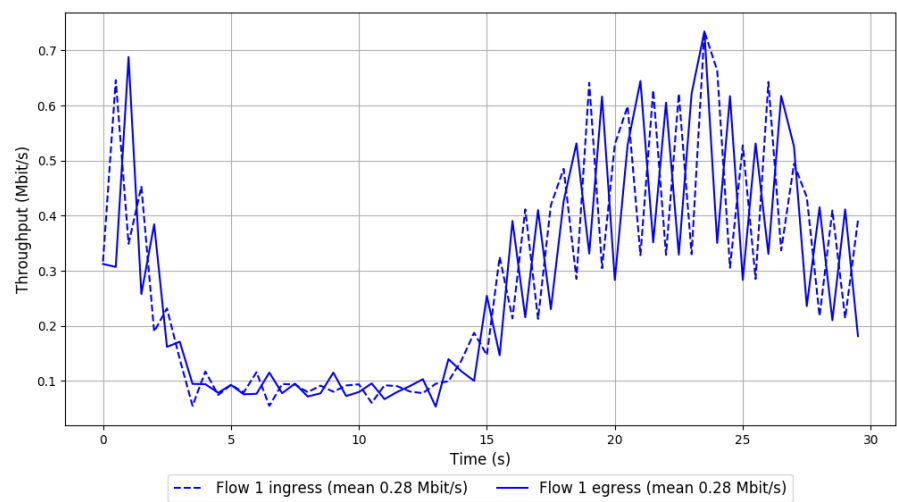
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 162.270 ms

Loss rate: 1.28%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-20 10:07:06

End at: 2018-02-20 10:07:36

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 161.979 ms

Loss rate: 0.52%

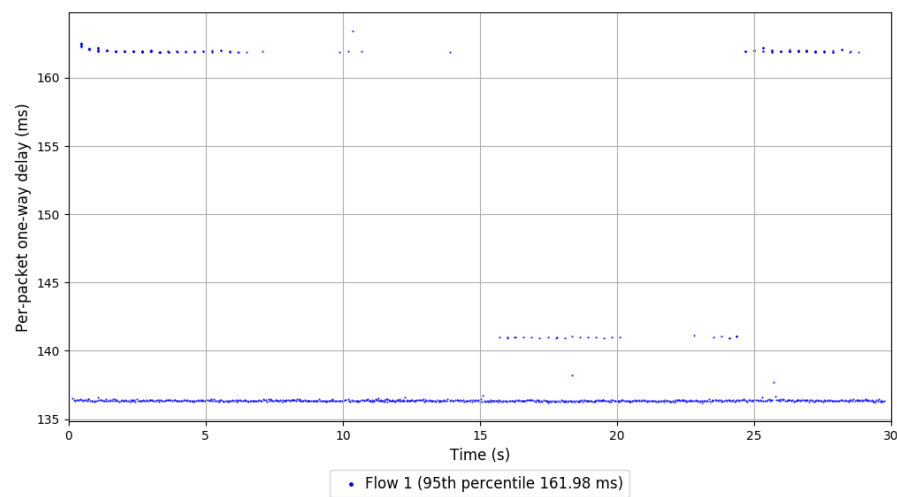
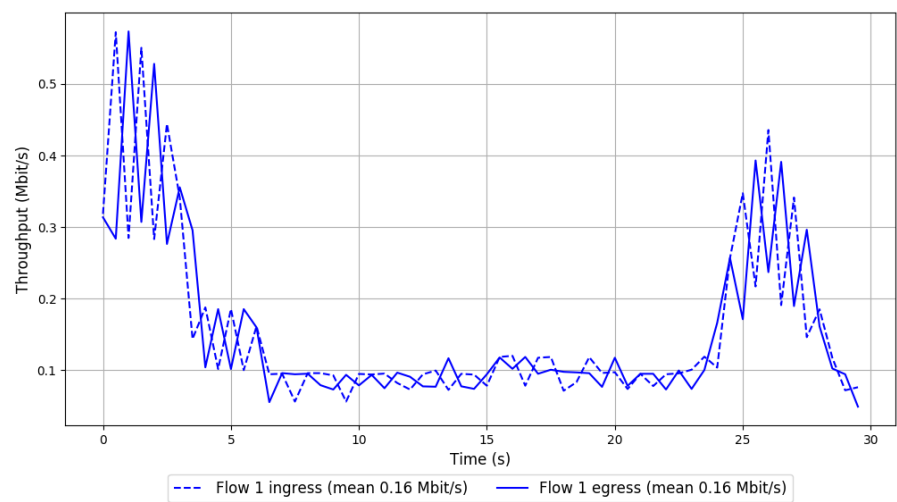
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 161.979 ms

Loss rate: 0.52%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-20 10:22:43

End at: 2018-02-20 10:23:13

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 162.708 ms

Loss rate: 1.20%

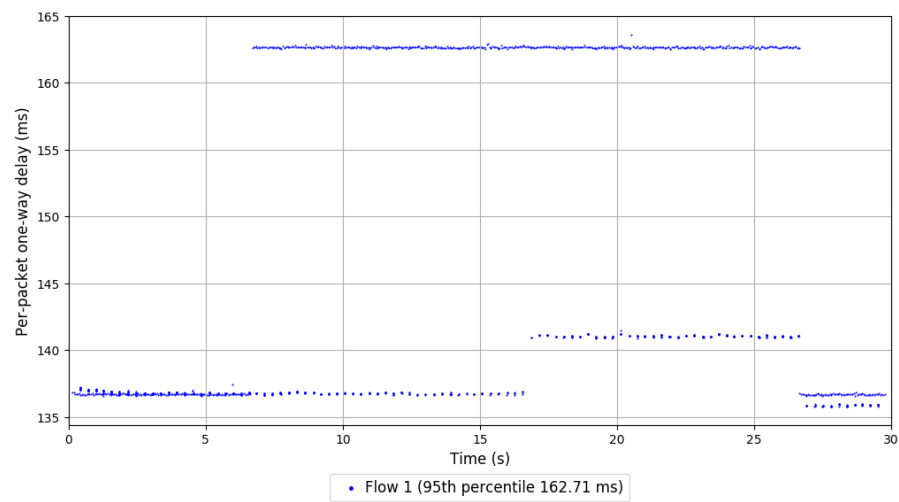
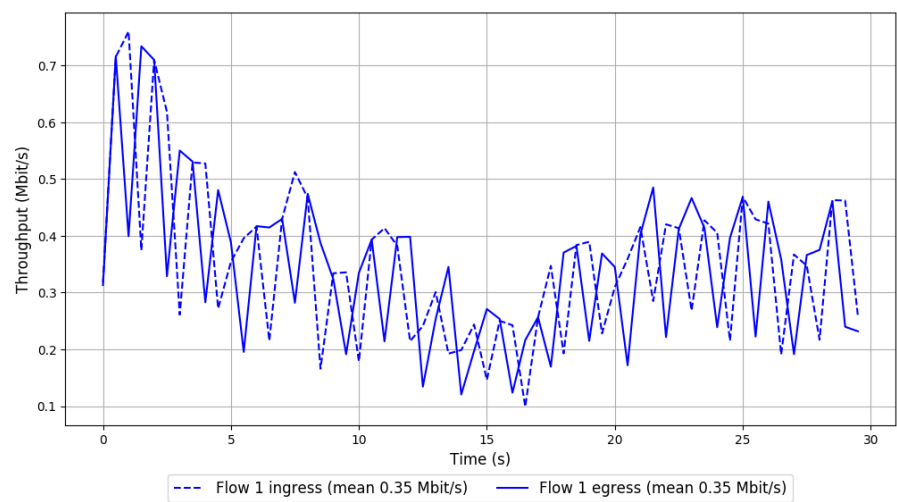
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 162.708 ms

Loss rate: 1.20%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-20 10:38:40

End at: 2018-02-20 10:39:10

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 162.324 ms

Loss rate: 0.30%

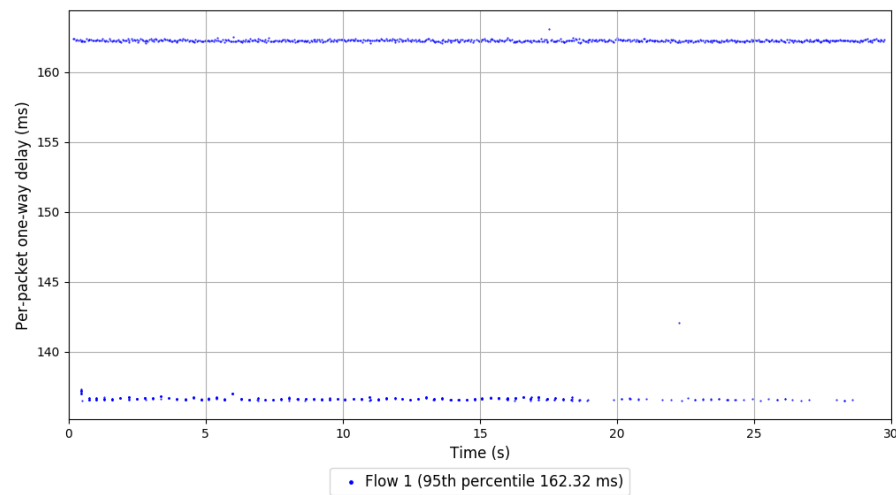
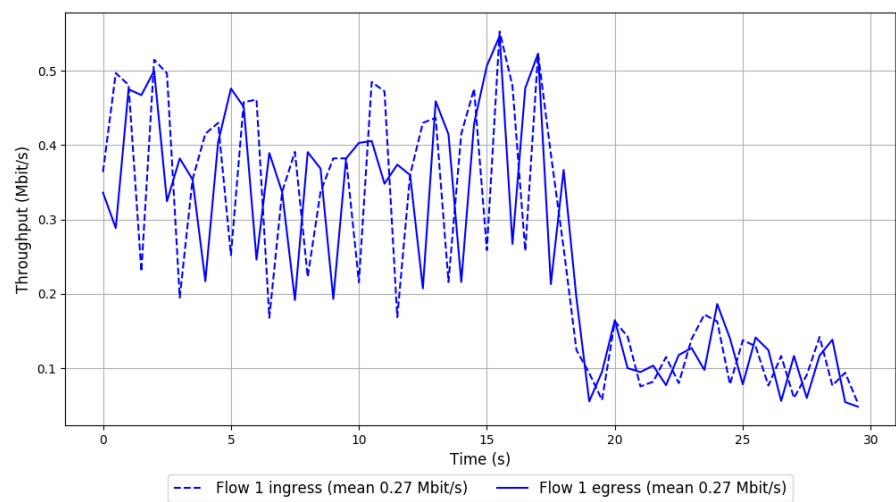
-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 162.324 ms

Loss rate: 0.30%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-20 10:54:29

End at: 2018-02-20 10:54:59

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 162.497 ms

Loss rate: 0.91%

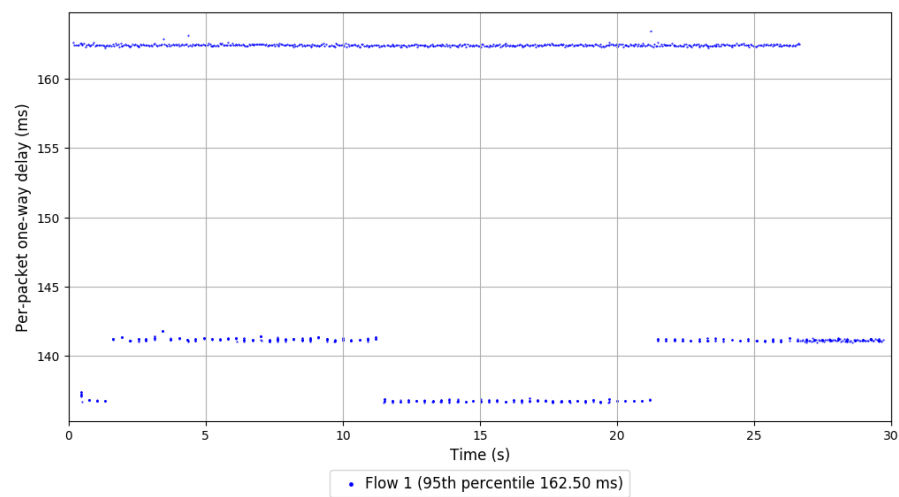
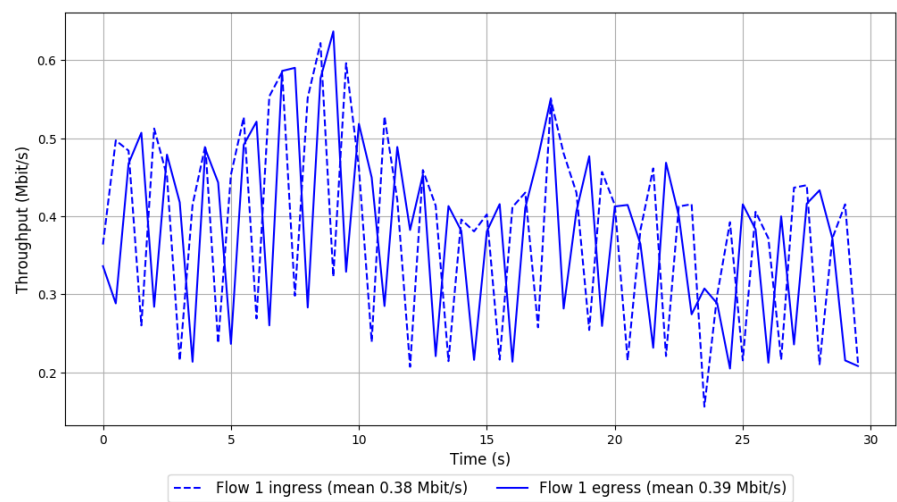
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 162.497 ms

Loss rate: 0.91%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-20 11:10:32

End at: 2018-02-20 11:11:02

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 162.137 ms

Loss rate: 1.13%

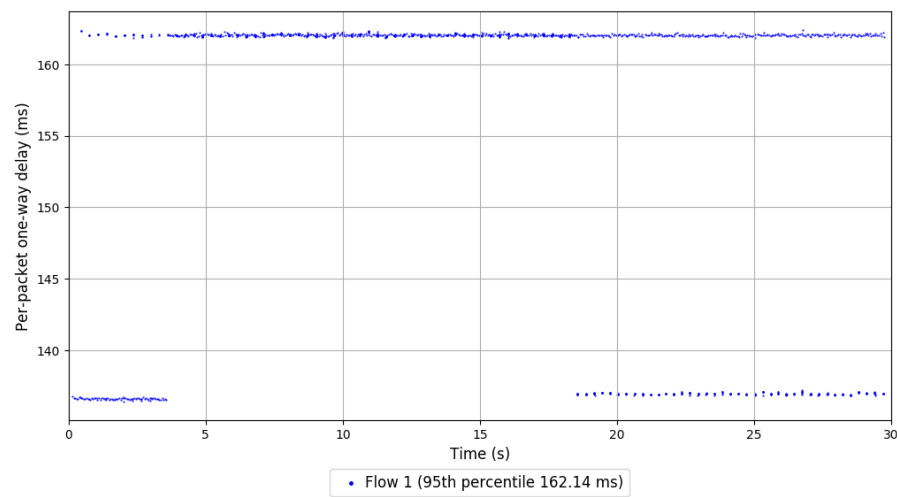
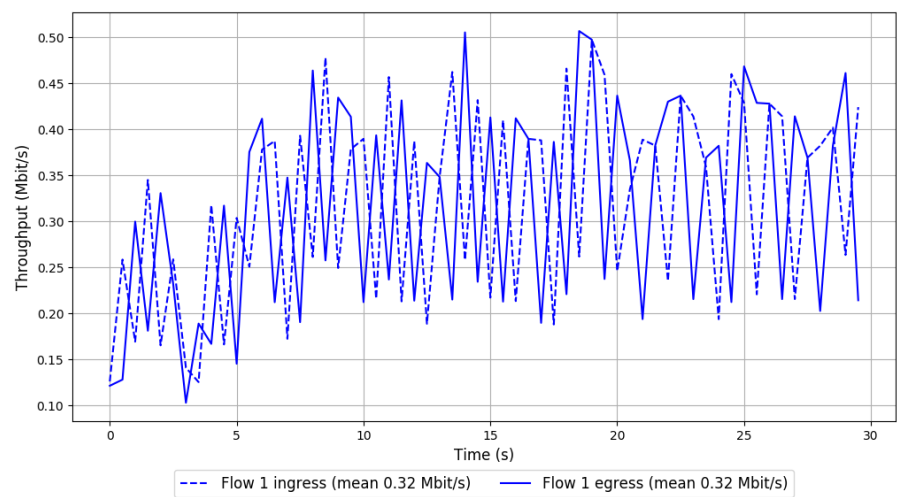
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 162.137 ms

Loss rate: 1.13%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-20 11:26:03

End at: 2018-02-20 11:26:33

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.481 ms

Loss rate: 1.94%

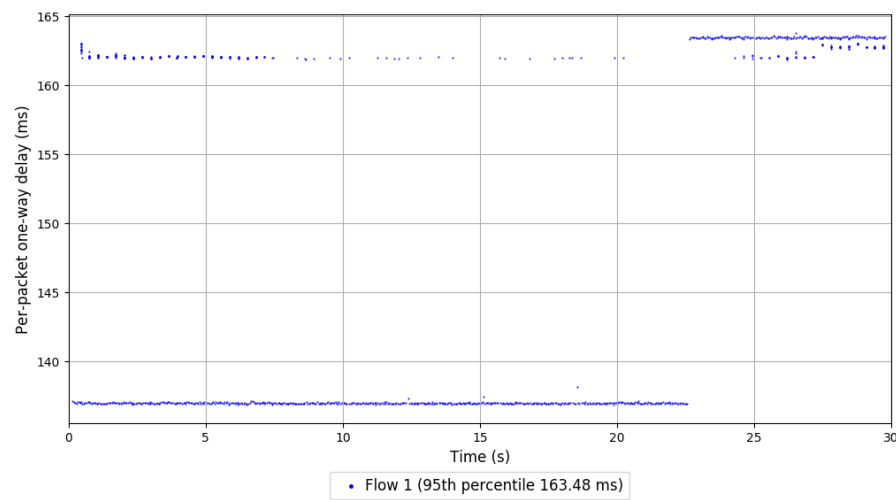
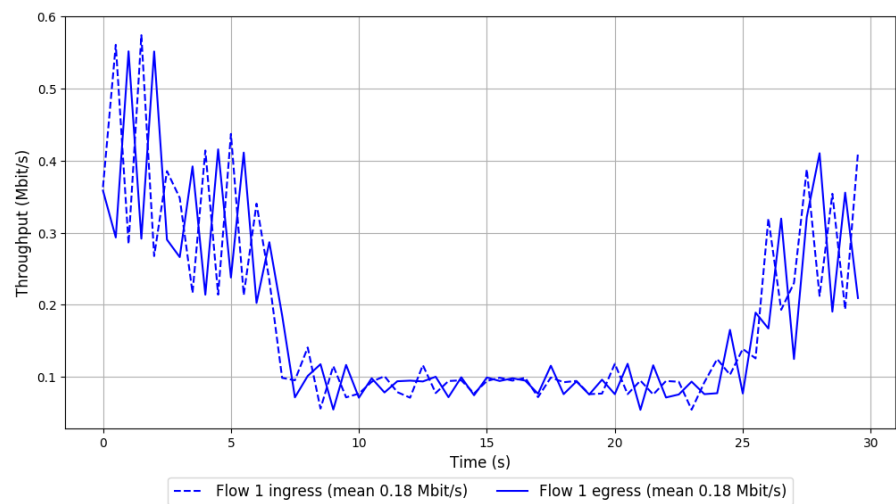
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.481 ms

Loss rate: 1.94%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-20 11:41:27

End at: 2018-02-20 11:41:57

Below is generated by plot.py at 2018-02-20 14:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 162.884 ms

Loss rate: 1.12%

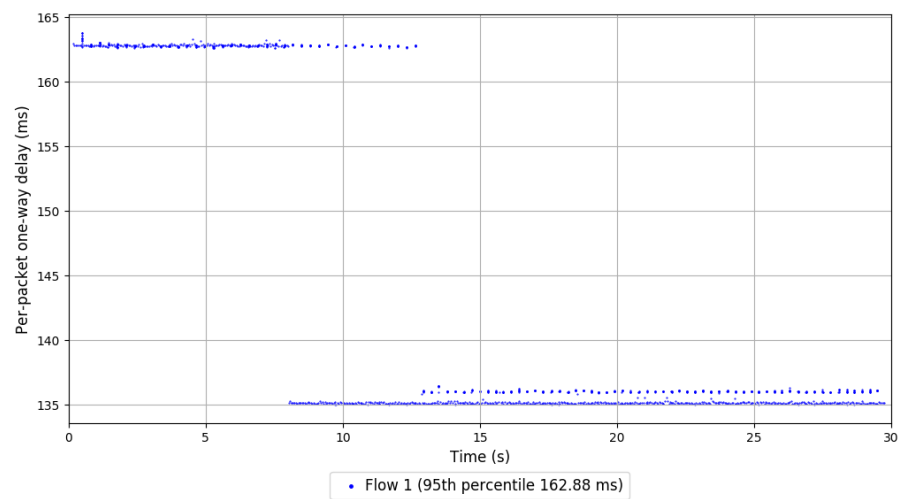
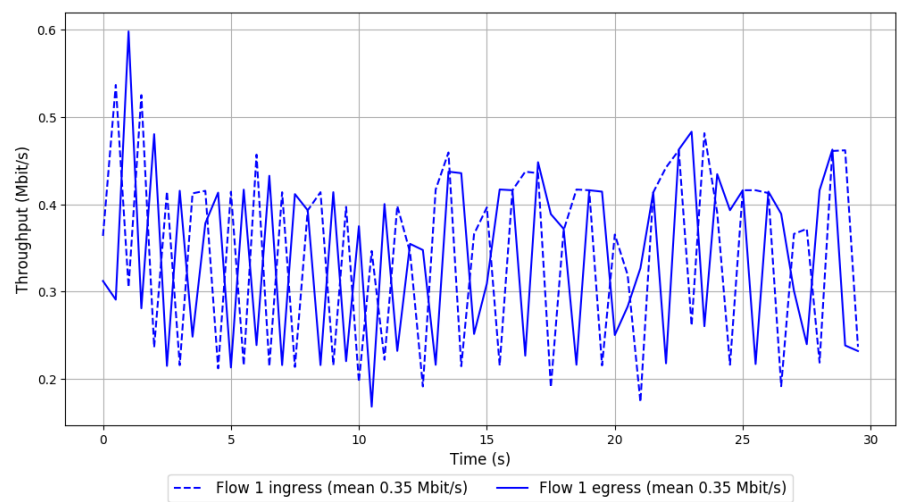
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 162.884 ms

Loss rate: 1.12%

Run 10: Report of Sprout — Data Link

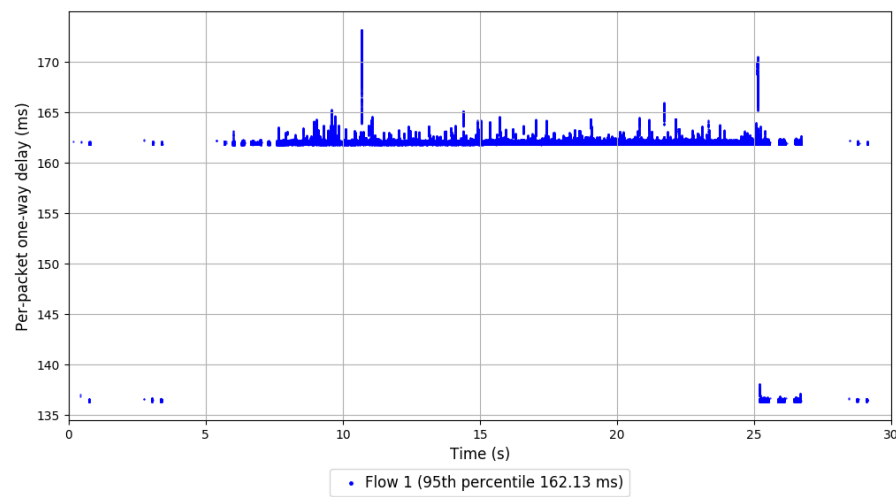
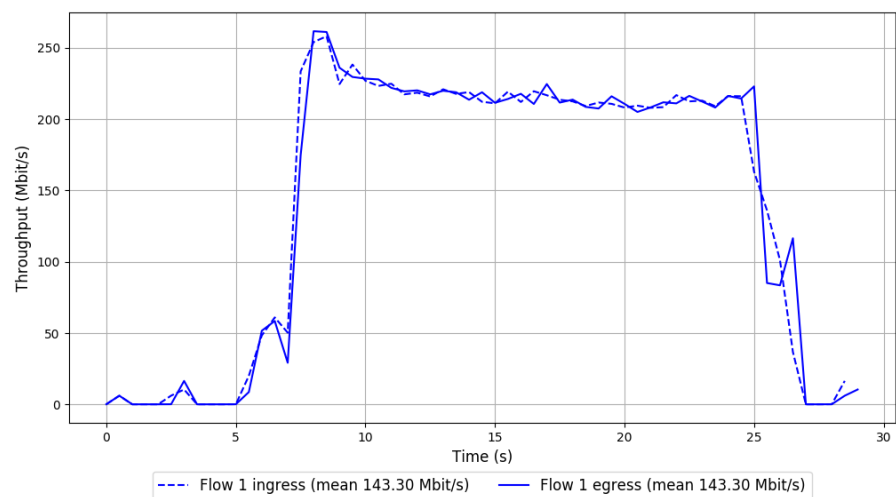


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-20 09:18:15
End at: 2018-02-20 09:18:45

# Below is generated by plot.py at 2018-02-20 14:55:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.30 Mbit/s
95th percentile per-packet one-way delay: 162.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.30 Mbit/s
95th percentile per-packet one-way delay: 162.126 ms
Loss rate: 0.00%
```

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

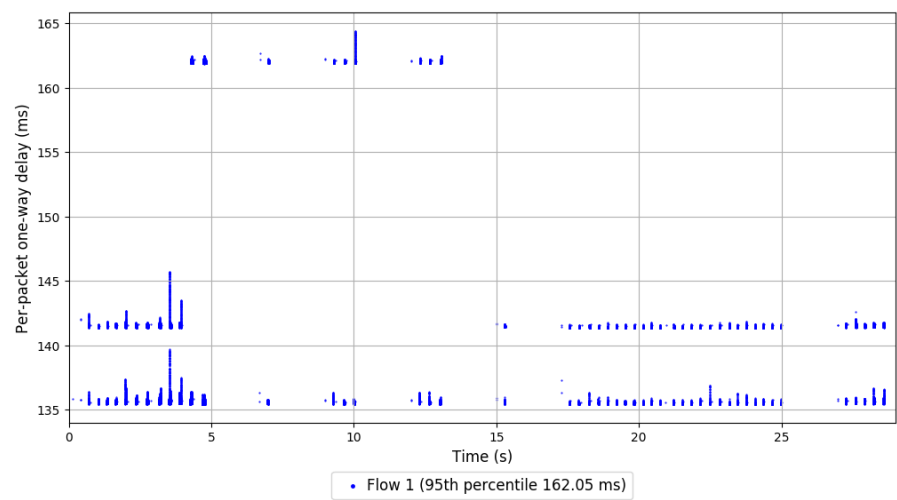
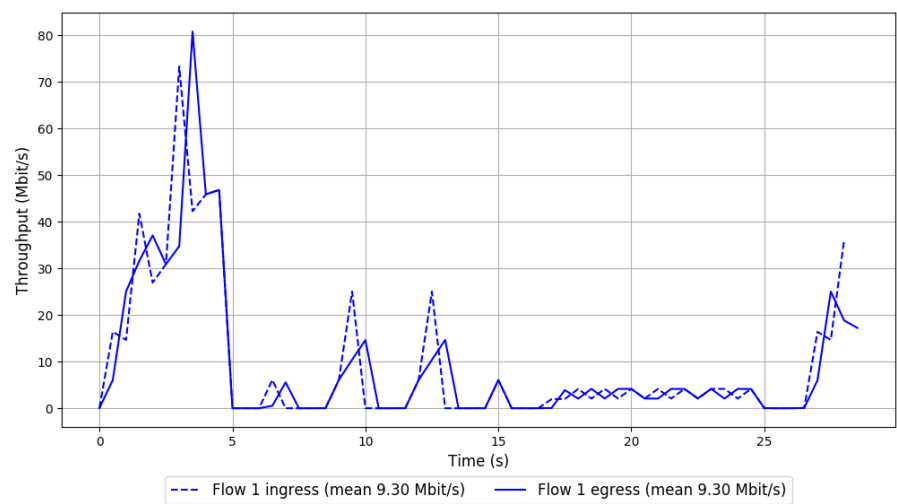


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-20 09:34:06
End at: 2018-02-20 09:34:36

# Below is generated by plot.py at 2018-02-20 14:55:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 162.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 162.049 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-20 09:49:27

End at: 2018-02-20 09:49:57

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 162.121 ms

Loss rate: 0.44%

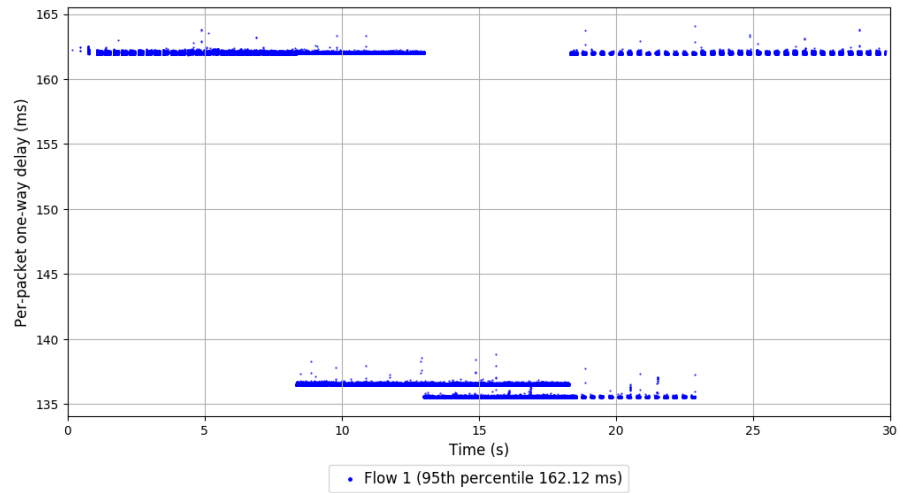
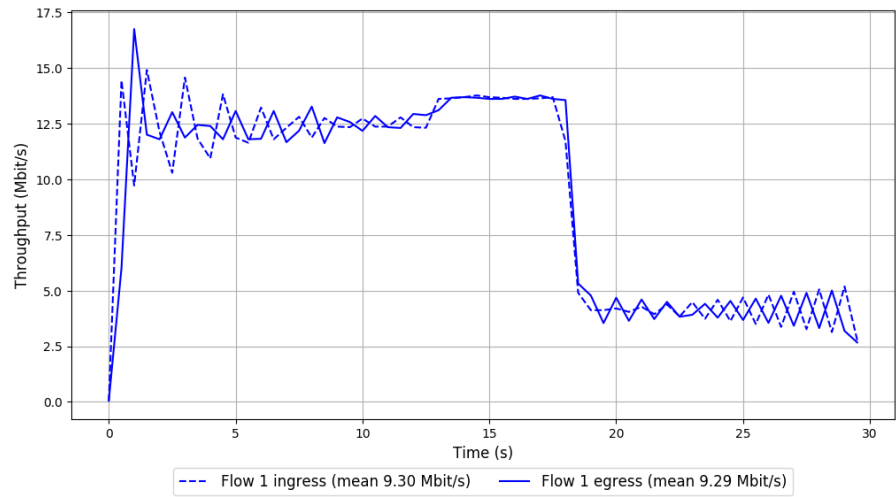
-- Flow 1:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 162.121 ms

Loss rate: 0.44%

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

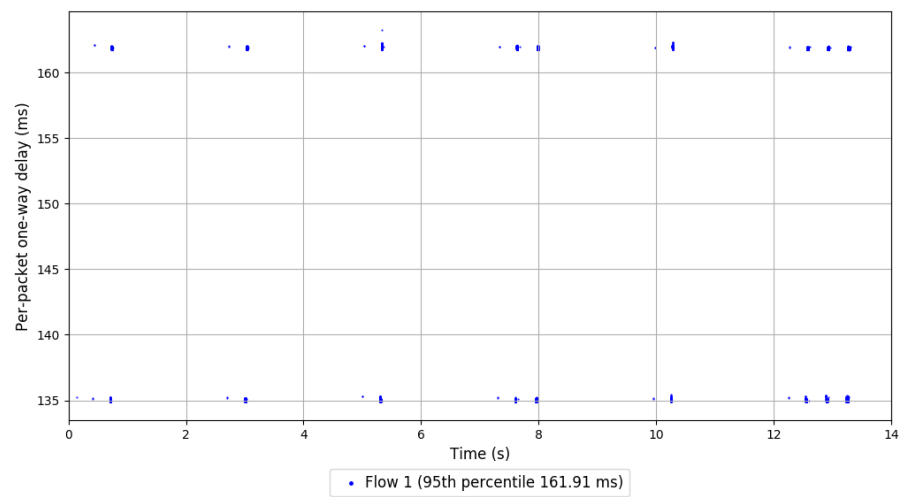
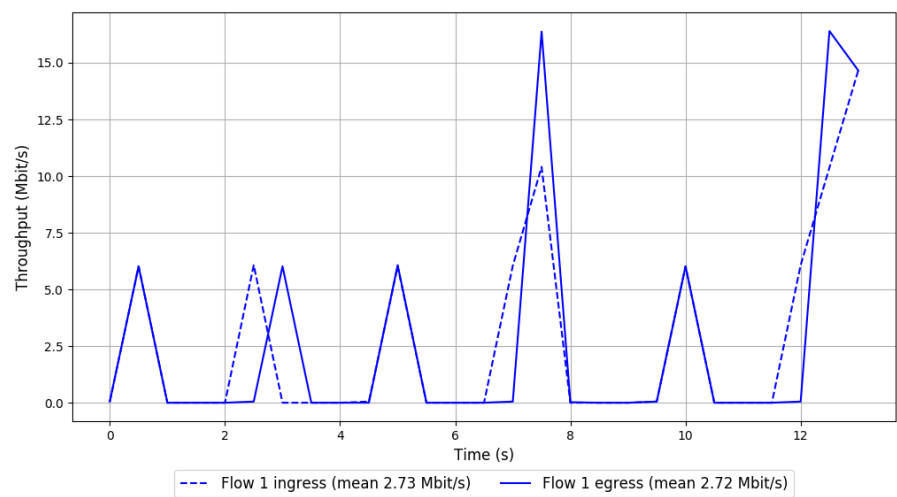


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-20 10:04:50

End at: 2018-02-20 10:05:20

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-20 10:20:24

End at: 2018-02-20 10:20:54

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 140.983 ms

Loss rate: 0.45%

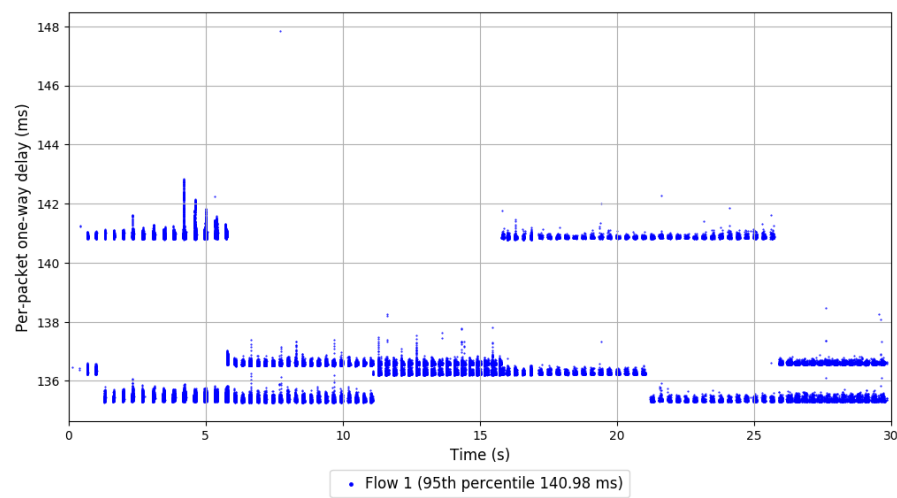
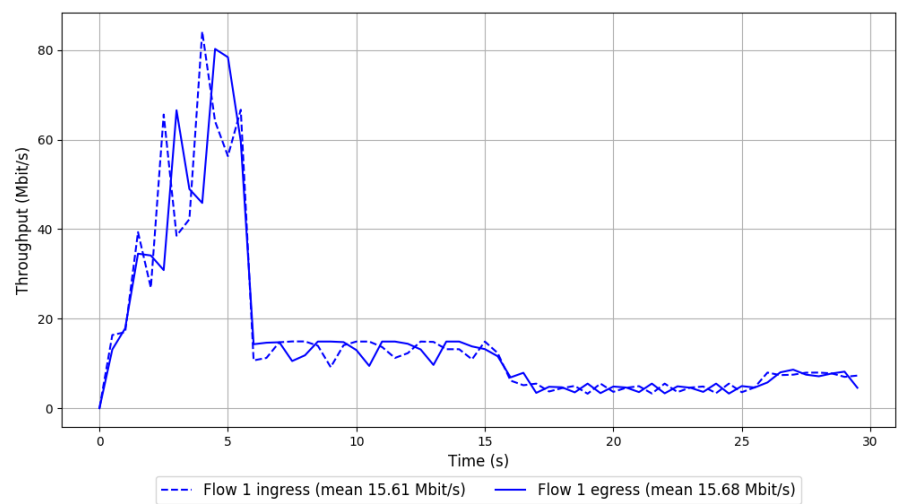
-- Flow 1:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 140.983 ms

Loss rate: 0.45%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-20 10:36:22

End at: 2018-02-20 10:36:52

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 162.213 ms

Loss rate: 0.00%

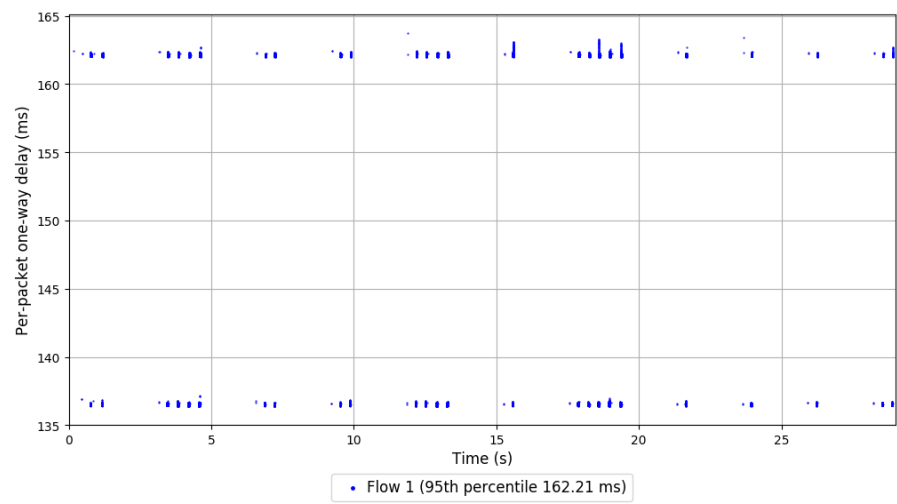
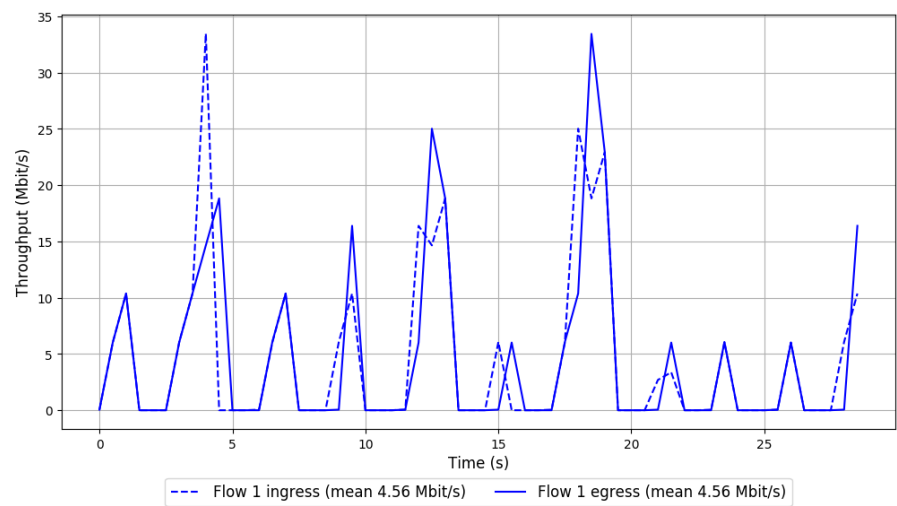
-- Flow 1:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 162.213 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-20 10:52:10

End at: 2018-02-20 10:52:40

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 162.563 ms

Loss rate: 0.00%

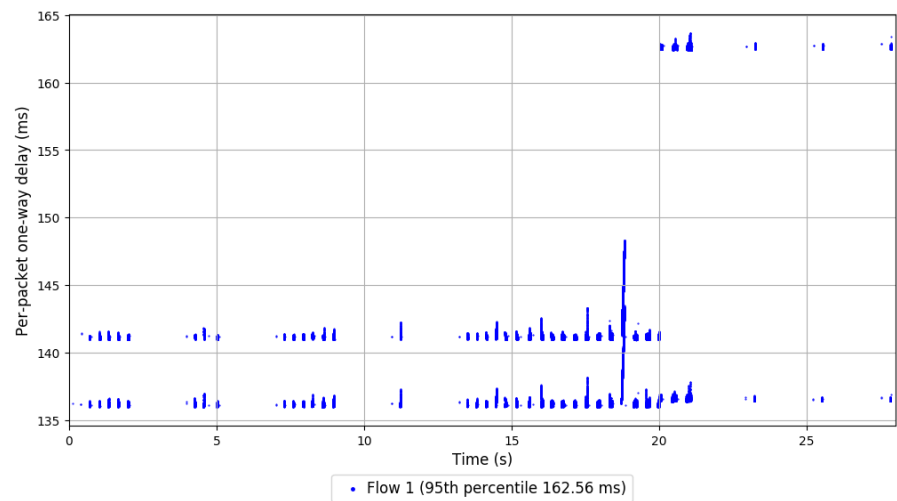
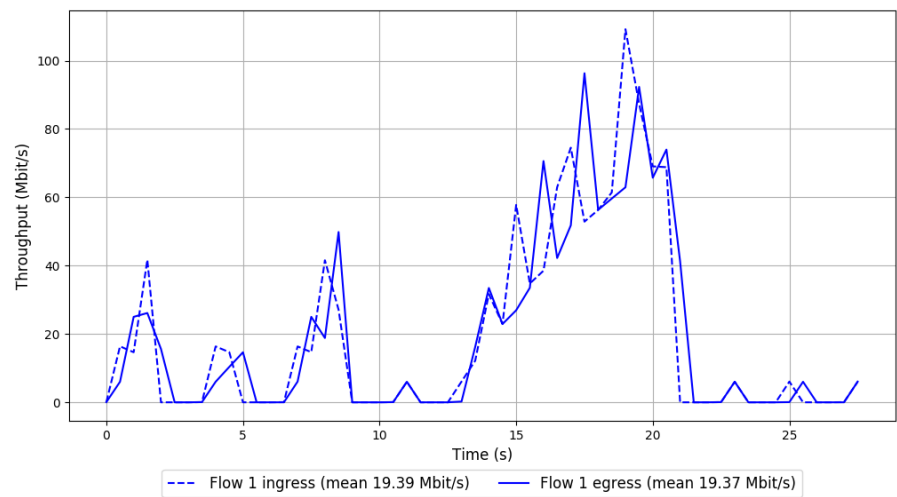
-- Flow 1:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 162.563 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-20 11:08:03

End at: 2018-02-20 11:08:33

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.51 Mbit/s

95th percentile per-packet one-way delay: 162.048 ms

Loss rate: 1.14%

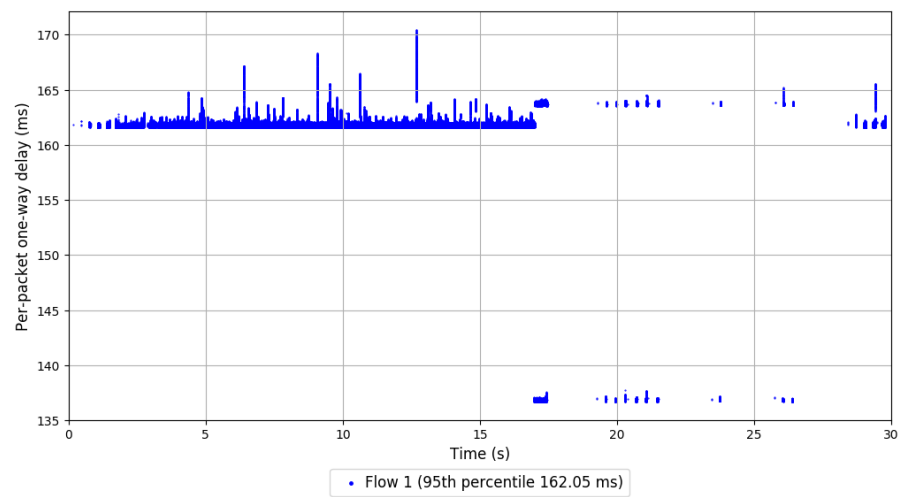
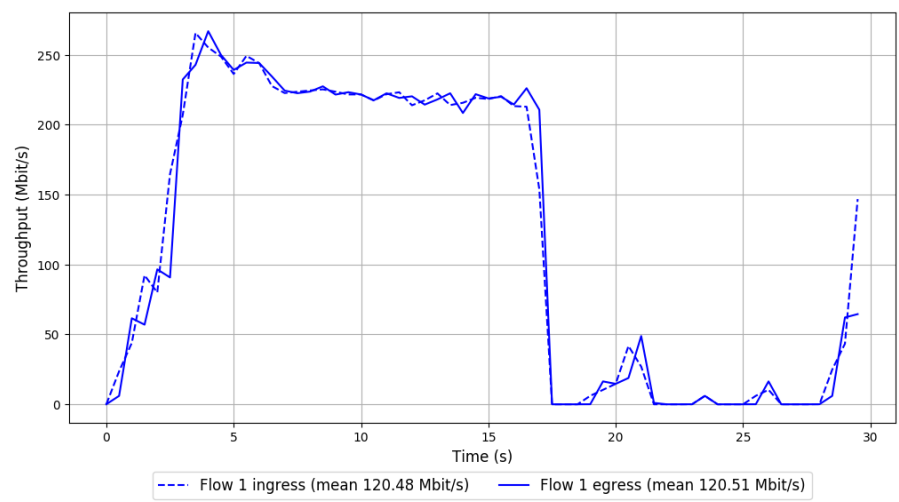
-- Flow 1:

Average throughput: 120.51 Mbit/s

95th percentile per-packet one-way delay: 162.048 ms

Loss rate: 1.14%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-20 11:23:47

End at: 2018-02-20 11:24:17

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 162.630 ms

Loss rate: 0.51%

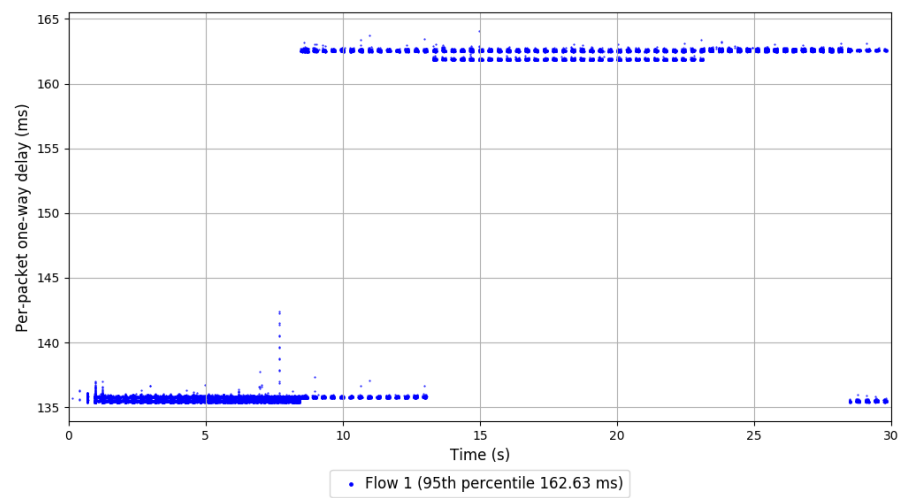
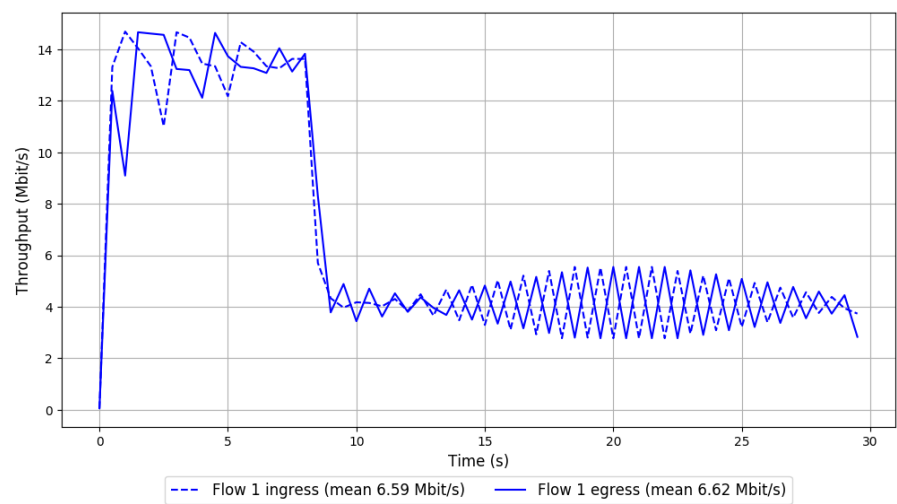
-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 162.630 ms

Loss rate: 0.51%

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

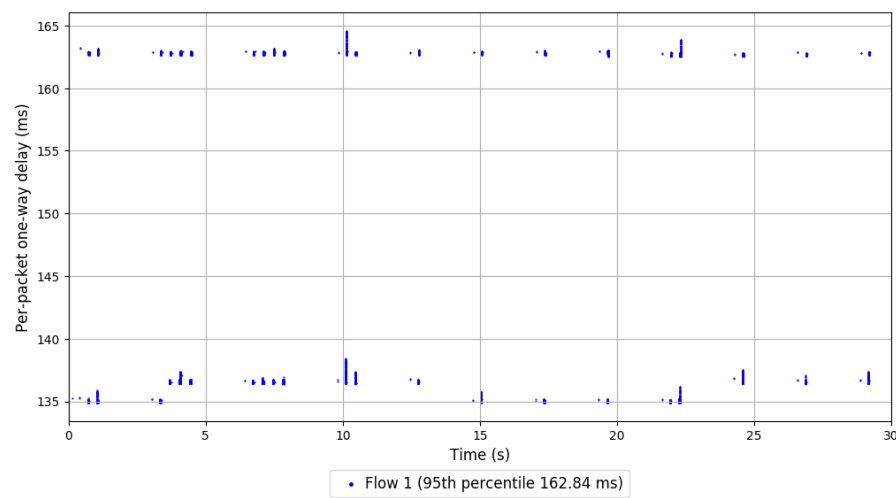
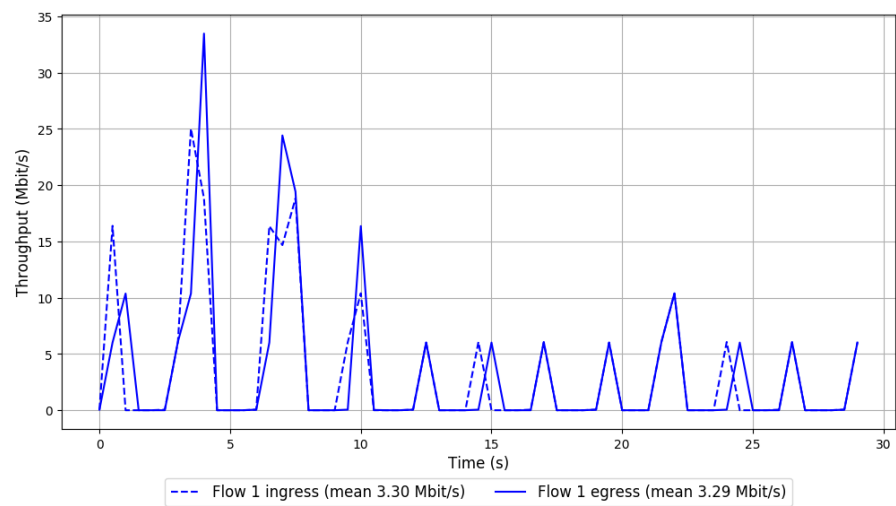


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-20 11:39:12
End at: 2018-02-20 11:39:42

# Below is generated by plot.py at 2018-02-20 14:55:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 162.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 162.838 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-20 09:16:18

End at: 2018-02-20 09:16:48

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 138.782 ms

Loss rate: 0.99%

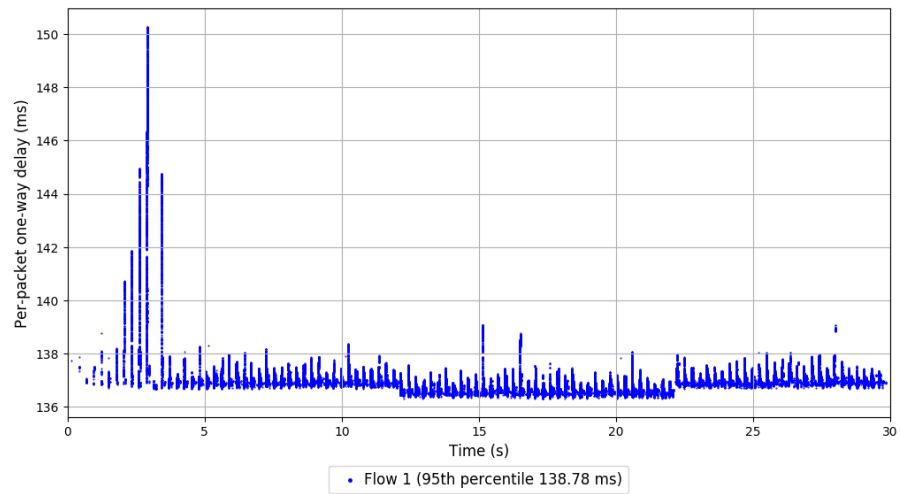
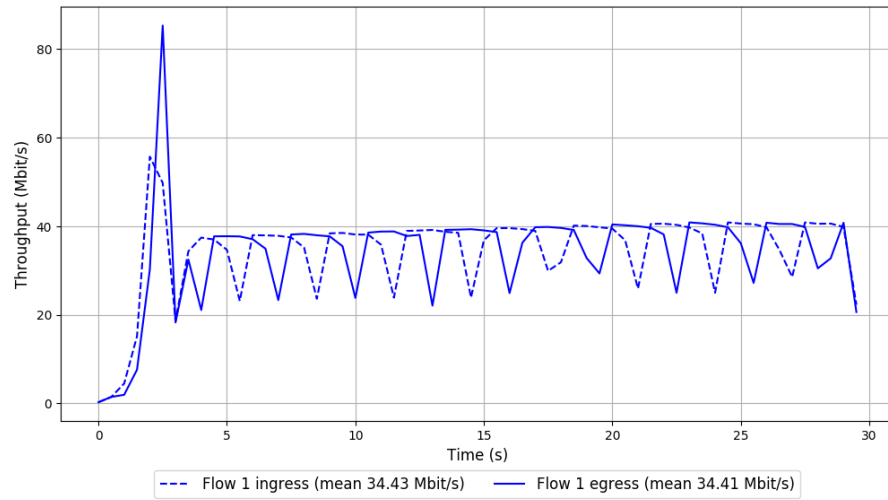
-- Flow 1:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 138.782 ms

Loss rate: 0.99%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-20 09:32:10

End at: 2018-02-20 09:32:40

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 162.782 ms

Loss rate: 1.04%

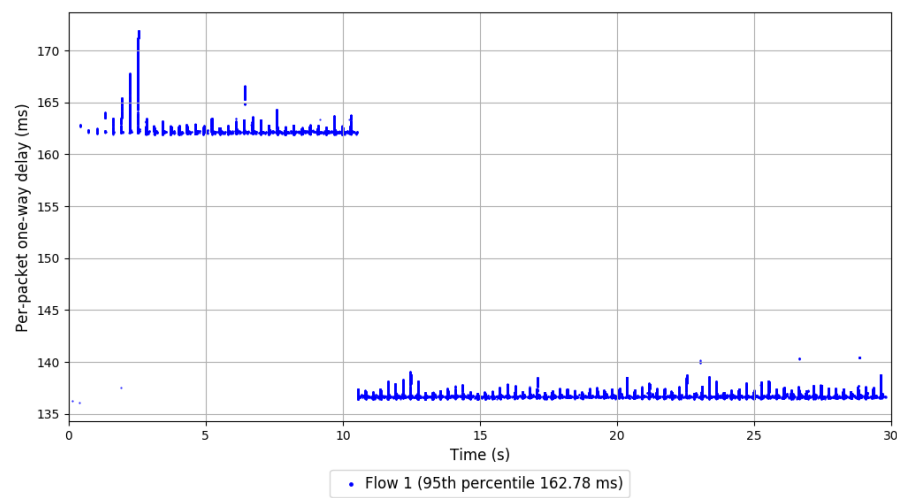
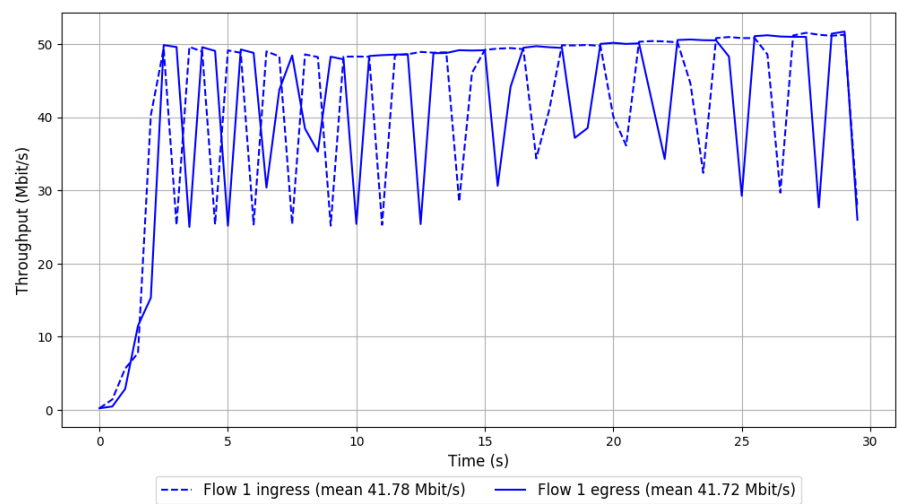
-- Flow 1:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 162.782 ms

Loss rate: 1.04%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-20 09:47:32

End at: 2018-02-20 09:48:02

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 162.706 ms

Loss rate: 0.68%

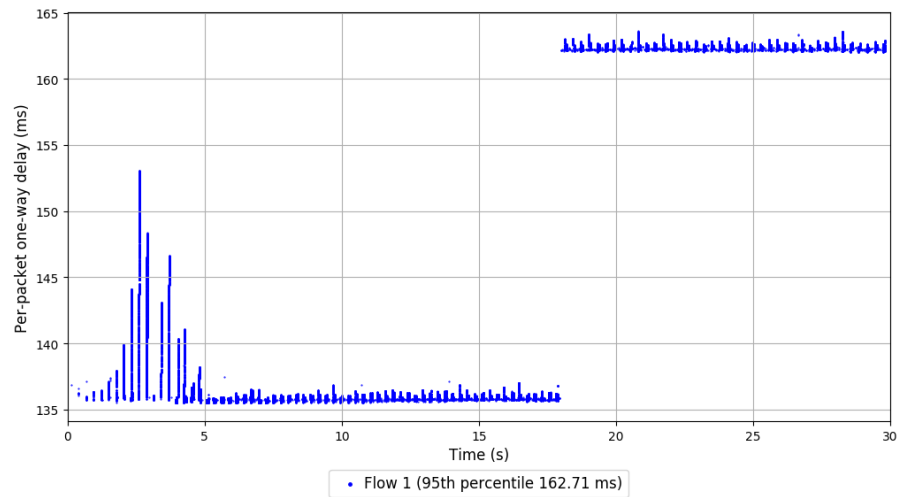
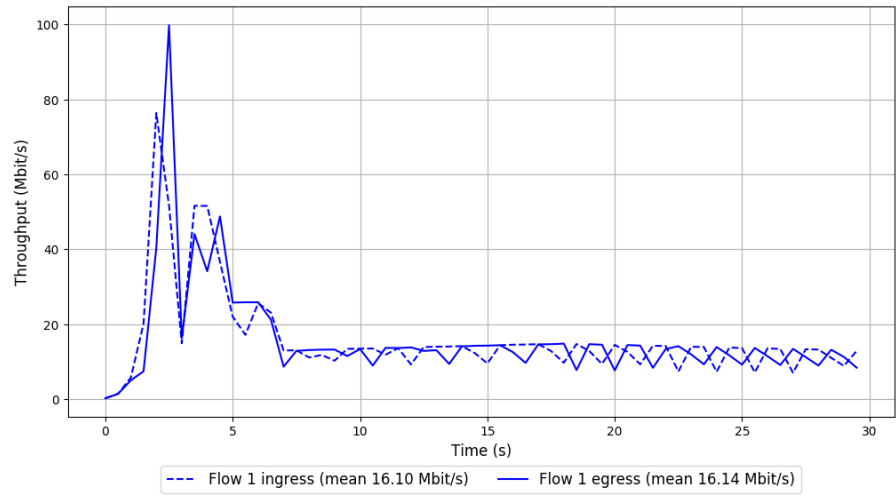
-- Flow 1:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 162.706 ms

Loss rate: 0.68%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-20 10:03:01

End at: 2018-02-20 10:03:31

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.02 Mbit/s

95th percentile per-packet one-way delay: 169.368 ms

Loss rate: 1.07%

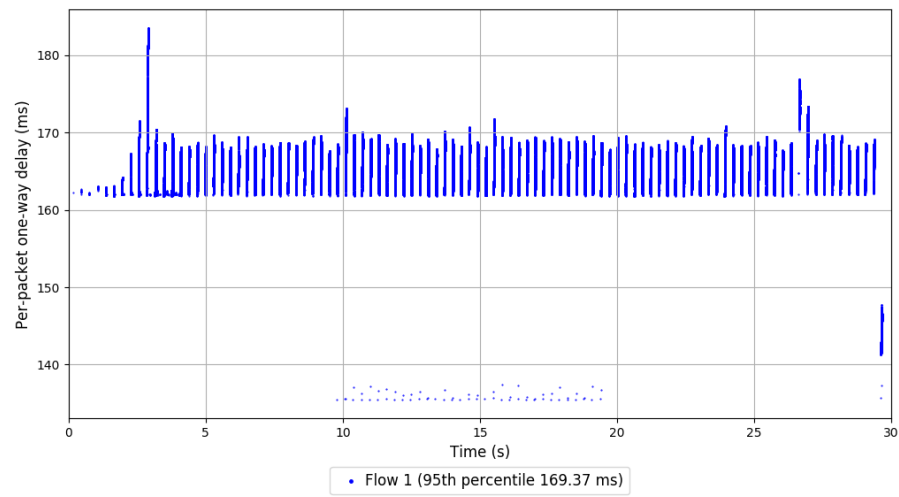
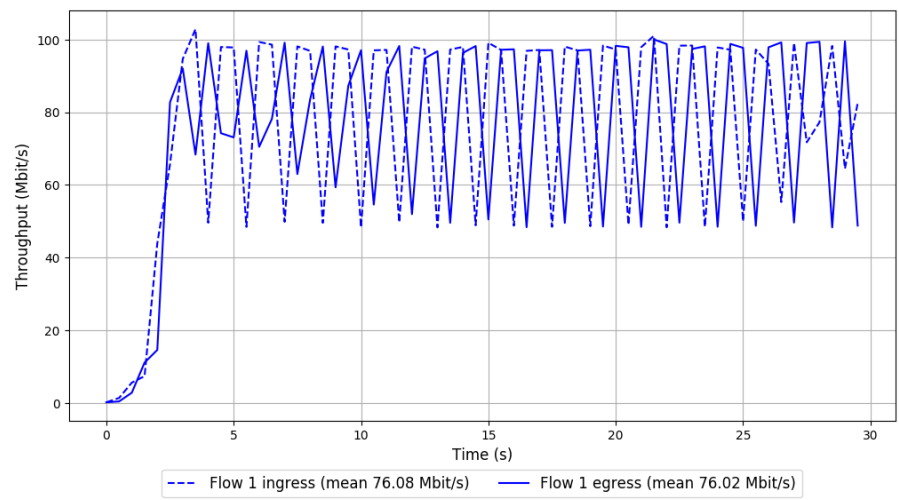
-- Flow 1:

Average throughput: 76.02 Mbit/s

95th percentile per-packet one-way delay: 169.368 ms

Loss rate: 1.07%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-20 10:18:29

End at: 2018-02-20 10:18:59

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.89 Mbit/s

95th percentile per-packet one-way delay: 141.730 ms

Loss rate: 1.05%

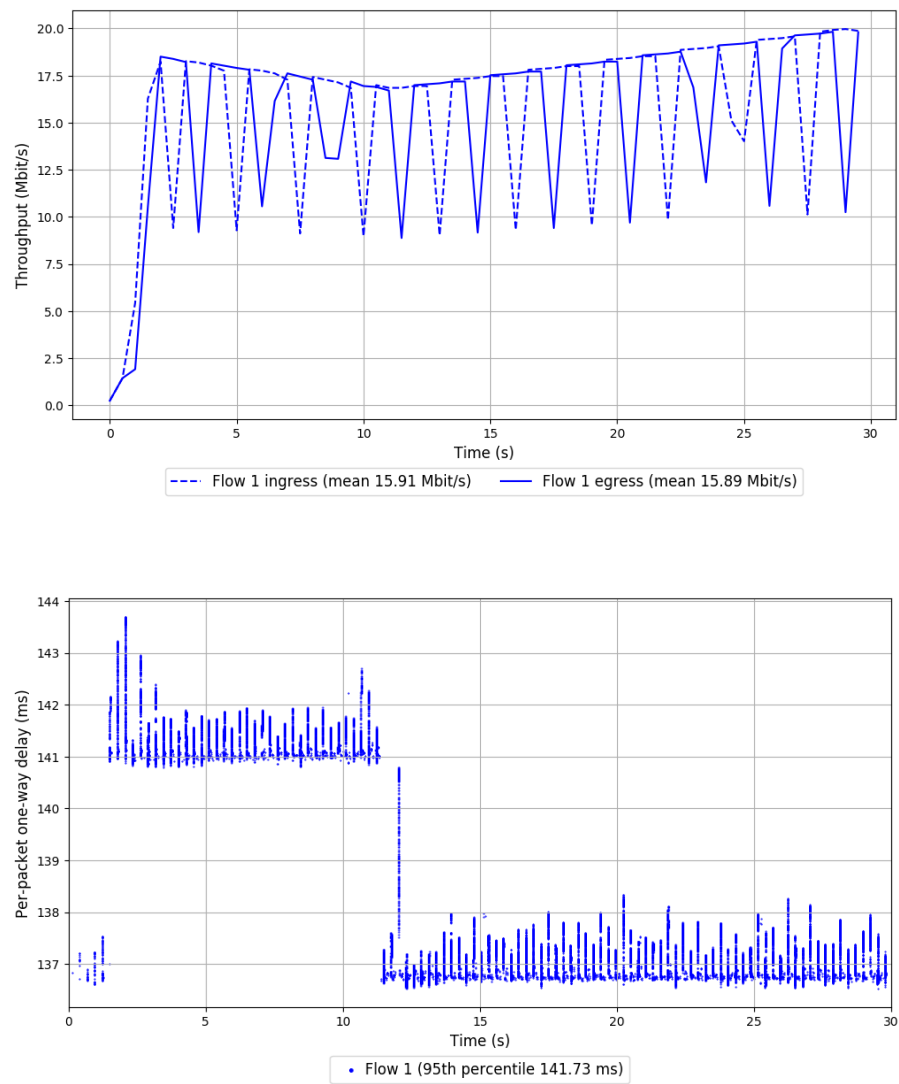
-- Flow 1:

Average throughput: 15.89 Mbit/s

95th percentile per-packet one-way delay: 141.730 ms

Loss rate: 1.05%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-20 10:34:26

End at: 2018-02-20 10:34:56

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 143.640 ms

Loss rate: 0.95%

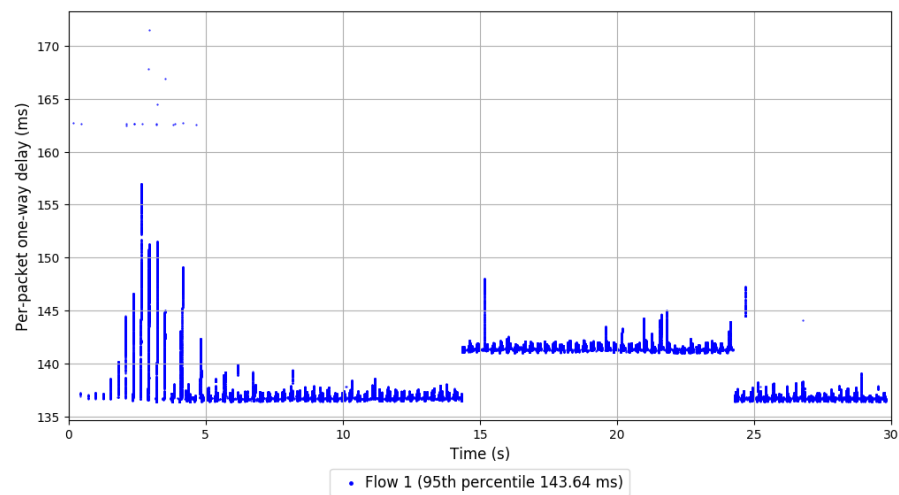
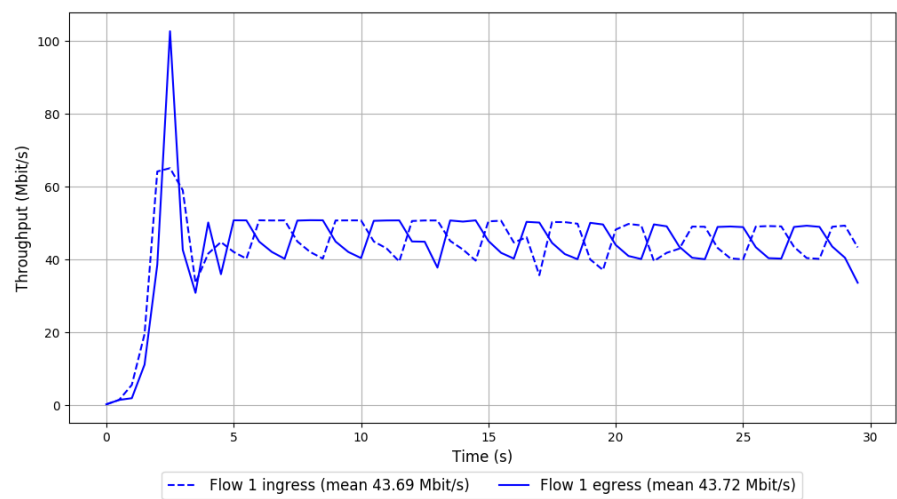
-- Flow 1:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 143.640 ms

Loss rate: 0.95%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-20 10:50:25

End at: 2018-02-20 10:50:55

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.42 Mbit/s

95th percentile per-packet one-way delay: 168.766 ms

Loss rate: 0.93%

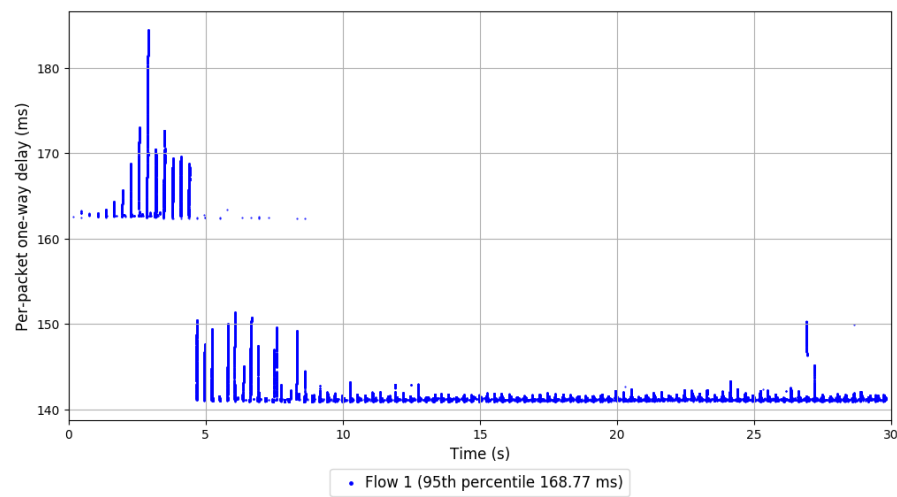
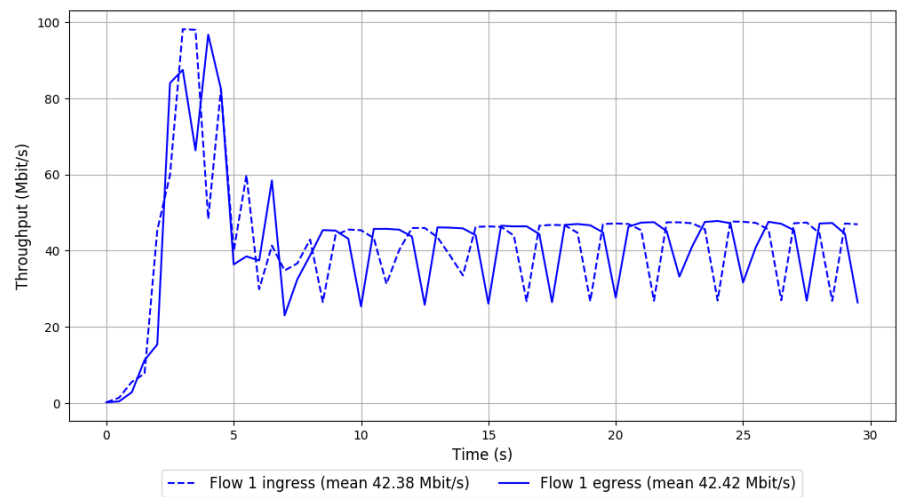
-- Flow 1:

Average throughput: 42.42 Mbit/s

95th percentile per-packet one-way delay: 168.766 ms

Loss rate: 0.93%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-20 11:06:08

End at: 2018-02-20 11:06:38

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.84 Mbit/s

95th percentile per-packet one-way delay: 137.743 ms

Loss rate: 1.16%

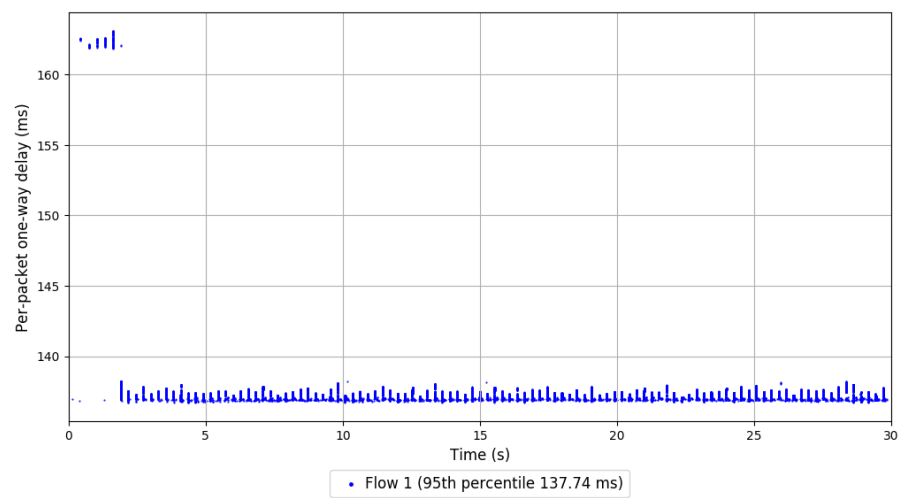
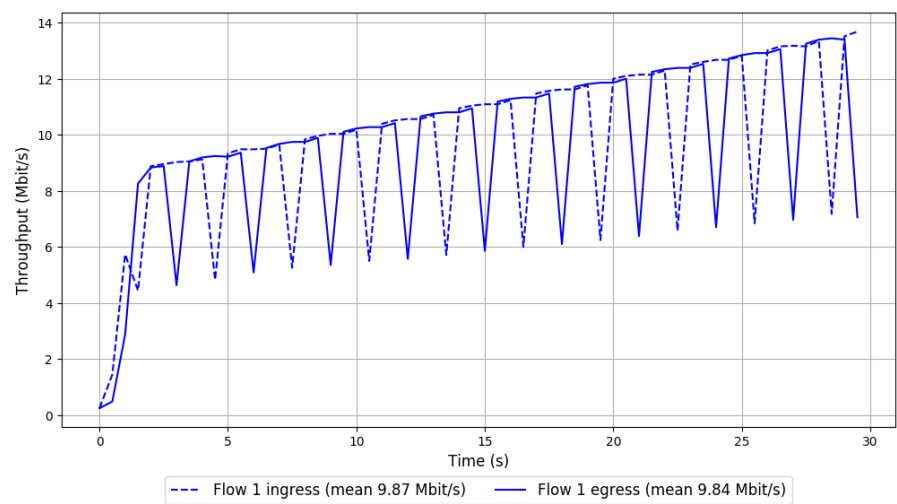
-- Flow 1:

Average throughput: 9.84 Mbit/s

95th percentile per-packet one-way delay: 137.743 ms

Loss rate: 1.16%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-20 11:21:54

End at: 2018-02-20 11:22:24

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 163.499 ms

Loss rate: 0.41%

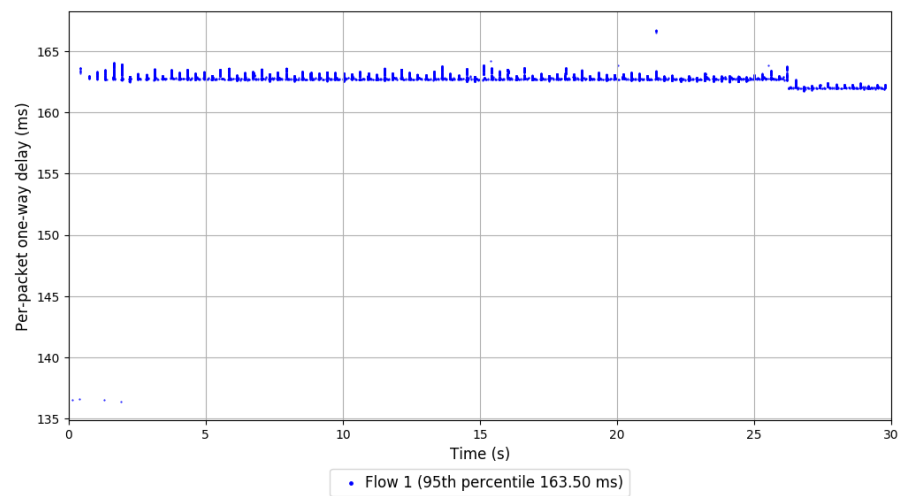
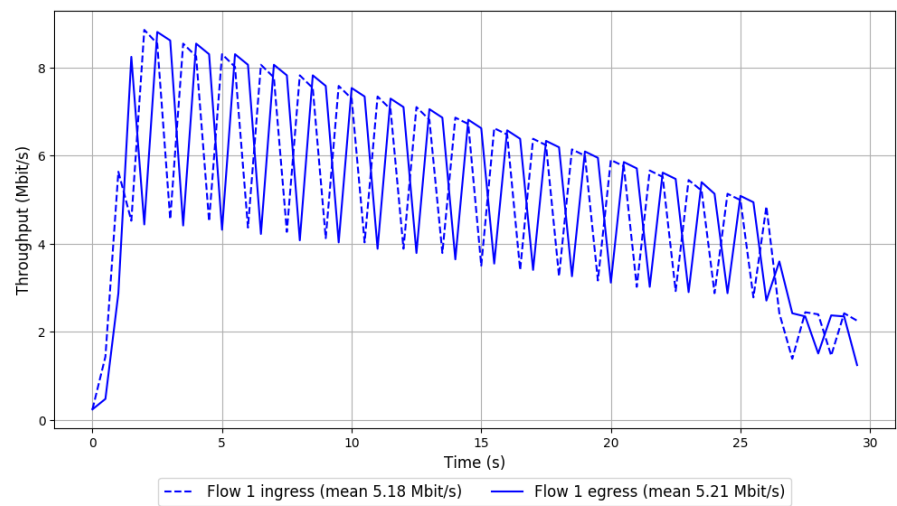
-- Flow 1:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 163.499 ms

Loss rate: 0.41%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-20 11:37:13

End at: 2018-02-20 11:37:43

Below is generated by plot.py at 2018-02-20 14:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 170.378 ms

Loss rate: 1.08%

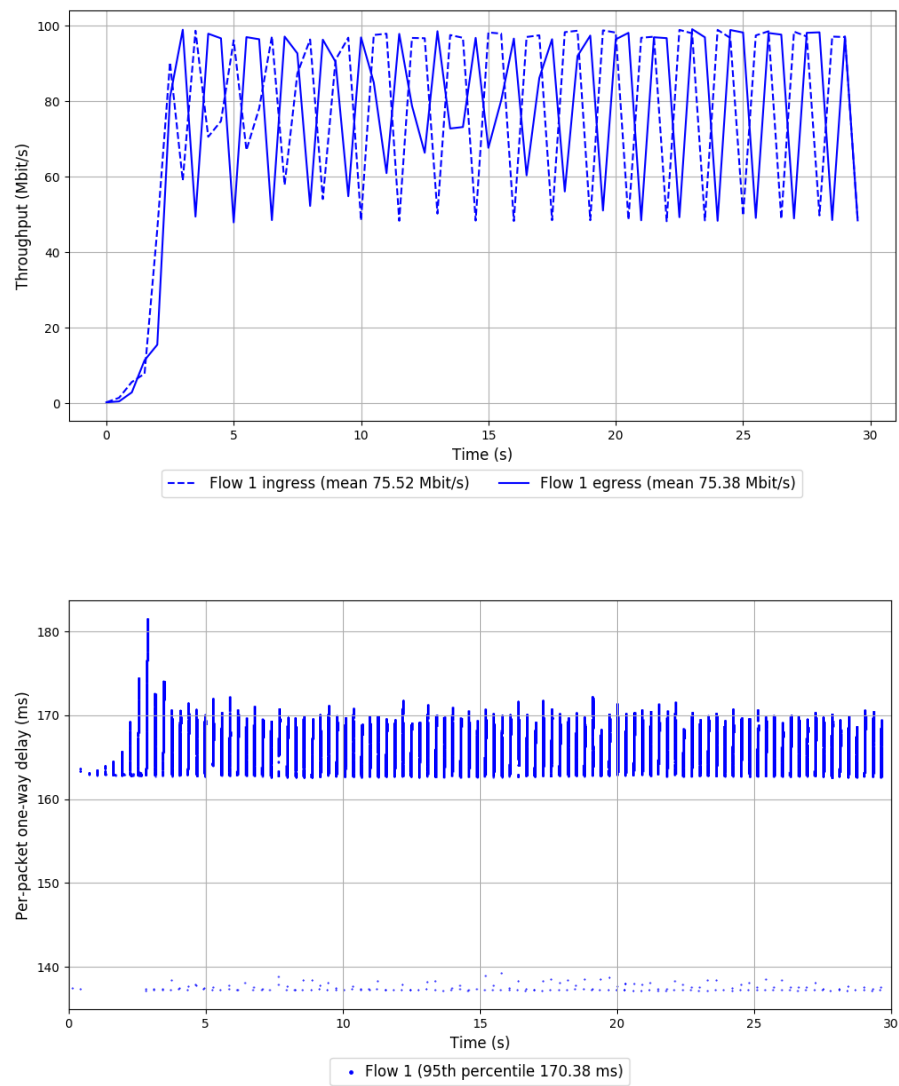
-- Flow 1:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 170.378 ms

Loss rate: 1.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-20 09:25:30

End at: 2018-02-20 09:26:00

Below is generated by plot.py at 2018-02-20 14:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.30 Mbit/s

95th percentile per-packet one-way delay: 174.096 ms

Loss rate: 1.74%

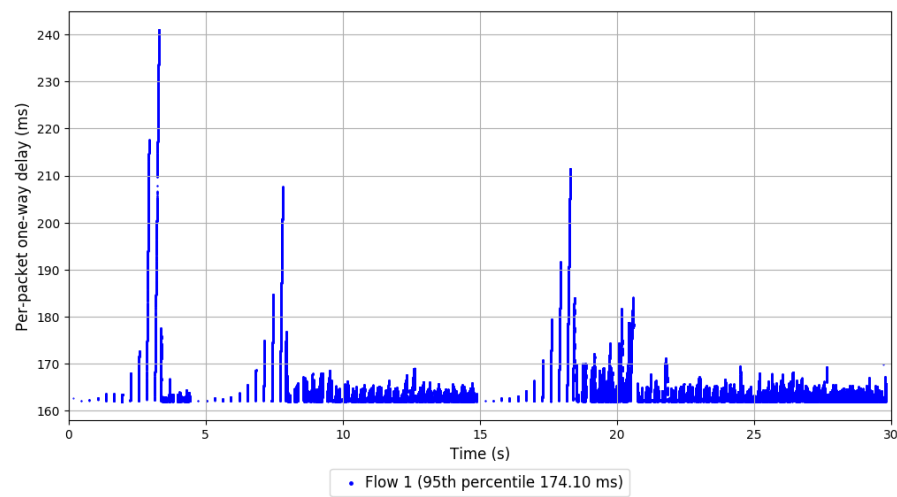
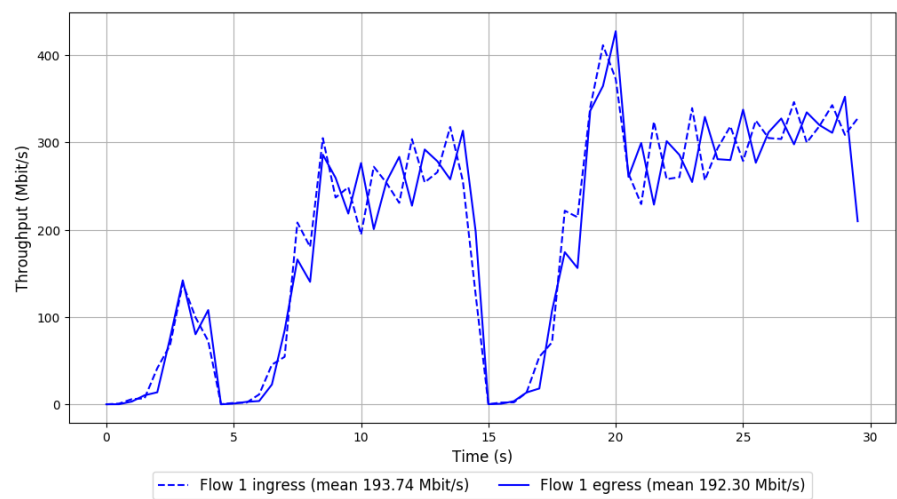
-- Flow 1:

Average throughput: 192.30 Mbit/s

95th percentile per-packet one-way delay: 174.096 ms

Loss rate: 1.74%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-20 09:41:18

End at: 2018-02-20 09:41:48

Below is generated by plot.py at 2018-02-20 14:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.87 Mbit/s

95th percentile per-packet one-way delay: 164.163 ms

Loss rate: 0.43%

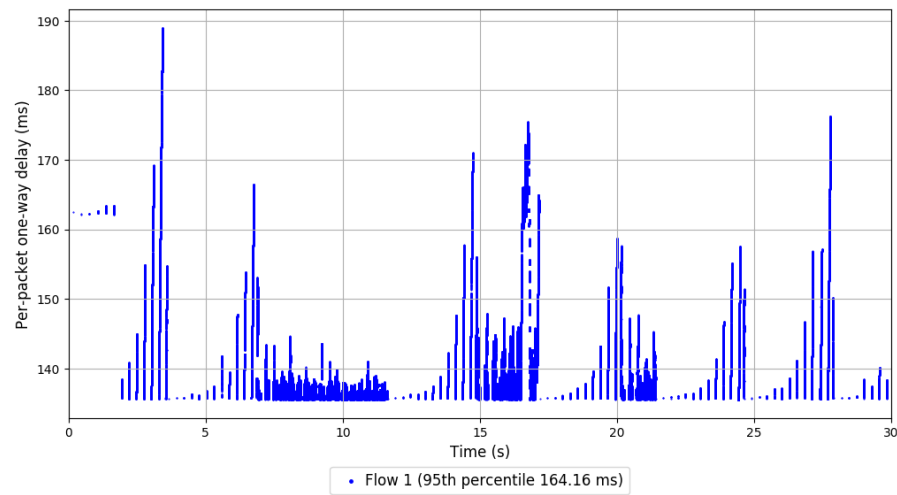
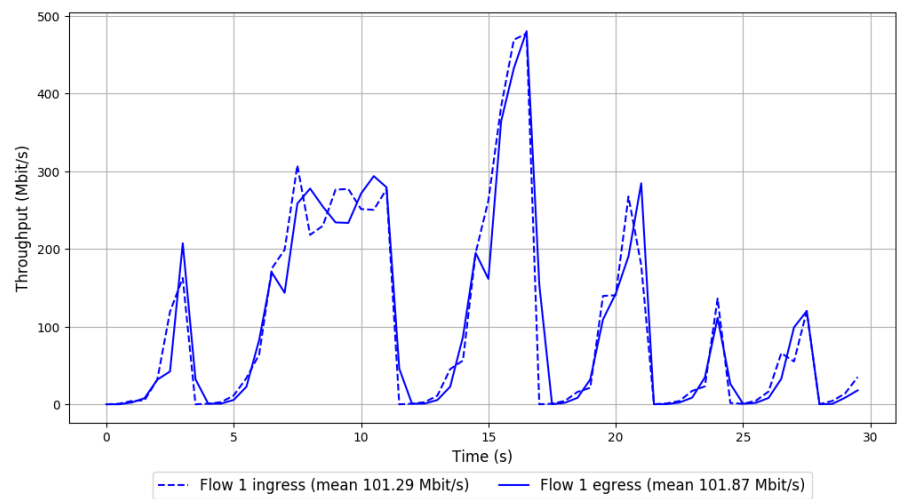
-- Flow 1:

Average throughput: 101.87 Mbit/s

95th percentile per-packet one-way delay: 164.163 ms

Loss rate: 0.43%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-20 09:56:23

End at: 2018-02-20 09:56:53

Below is generated by plot.py at 2018-02-20 14:55:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.34 Mbit/s

95th percentile per-packet one-way delay: 168.032 ms

Loss rate: 2.28%

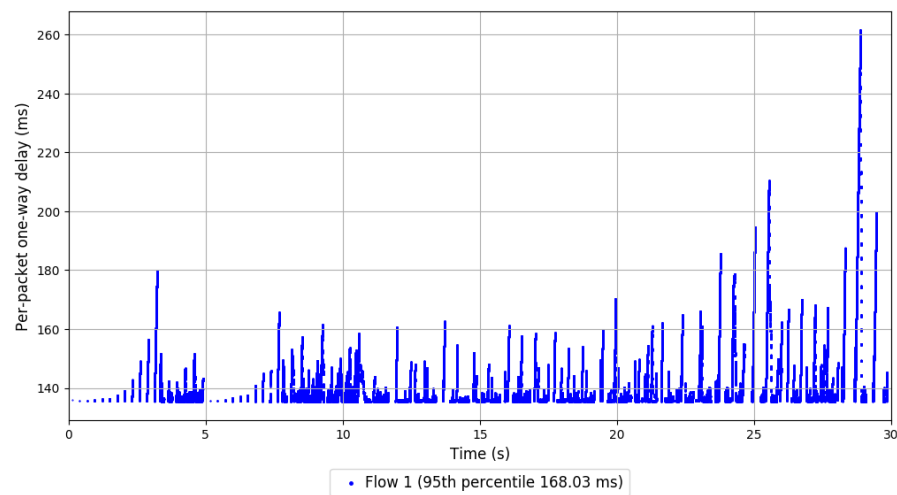
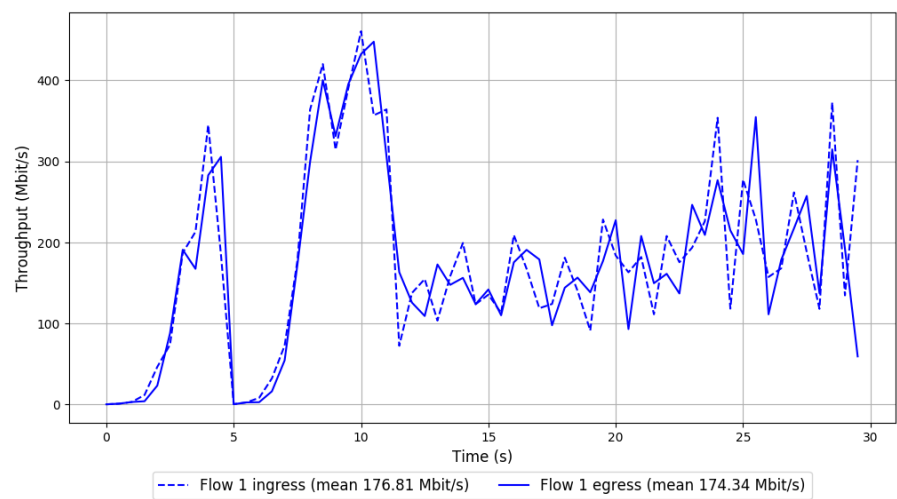
-- Flow 1:

Average throughput: 174.34 Mbit/s

95th percentile per-packet one-way delay: 168.032 ms

Loss rate: 2.28%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-20 10:12:08

End at: 2018-02-20 10:12:38

Below is generated by plot.py at 2018-02-20 14:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.50 Mbit/s

95th percentile per-packet one-way delay: 232.492 ms

Loss rate: 0.97%

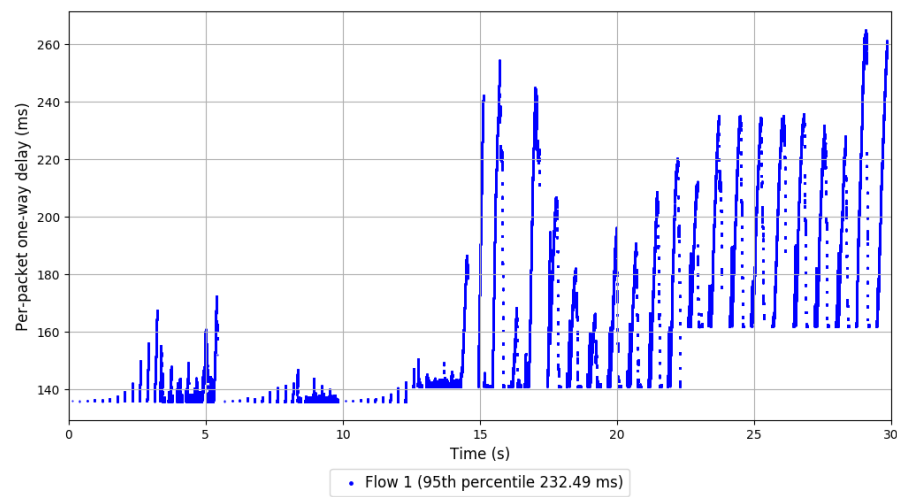
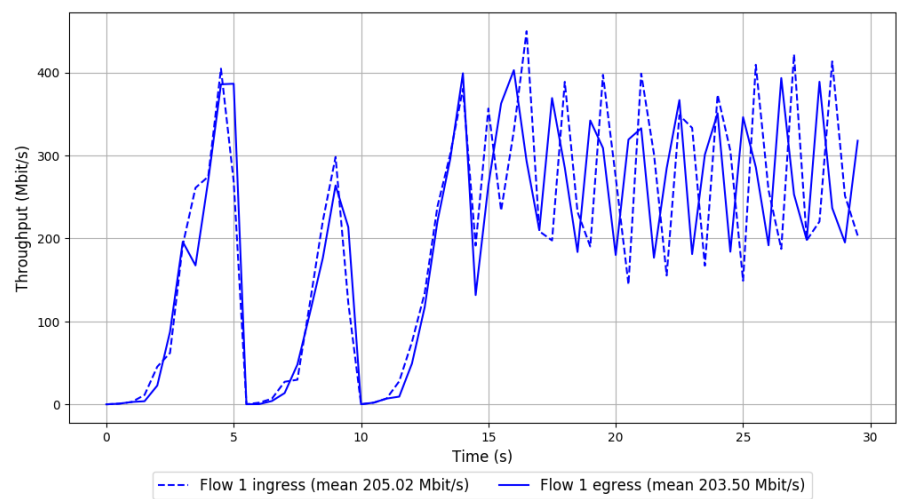
-- Flow 1:

Average throughput: 203.50 Mbit/s

95th percentile per-packet one-way delay: 232.492 ms

Loss rate: 0.97%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-20 10:27:40

End at: 2018-02-20 10:28:10

Below is generated by plot.py at 2018-02-20 14:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.90 Mbit/s

95th percentile per-packet one-way delay: 191.037 ms

Loss rate: 2.54%

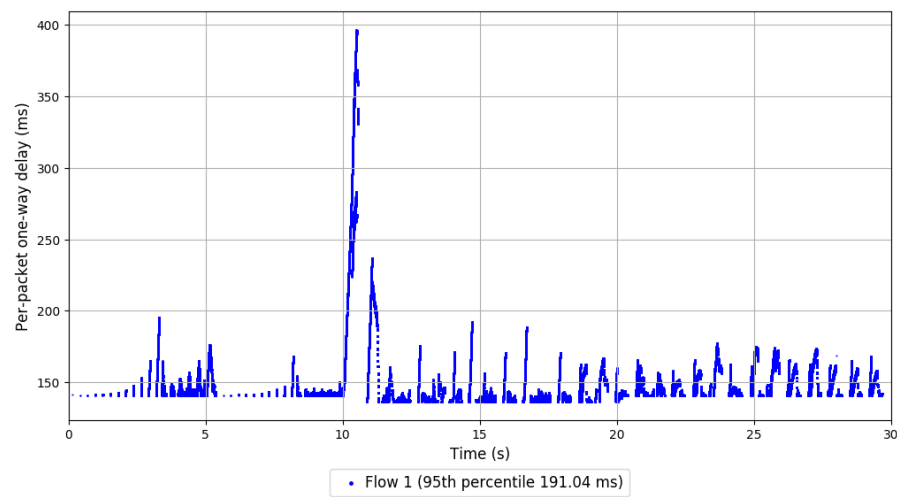
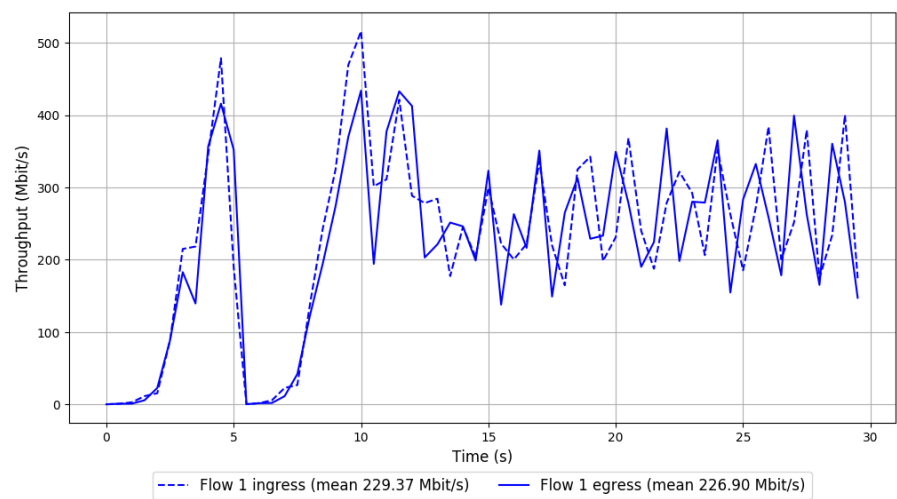
-- Flow 1:

Average throughput: 226.90 Mbit/s

95th percentile per-packet one-way delay: 191.037 ms

Loss rate: 2.54%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-20 10:43:42

End at: 2018-02-20 10:44:12

Below is generated by plot.py at 2018-02-20 14:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.43 Mbit/s

95th percentile per-packet one-way delay: 205.953 ms

Loss rate: 2.05%

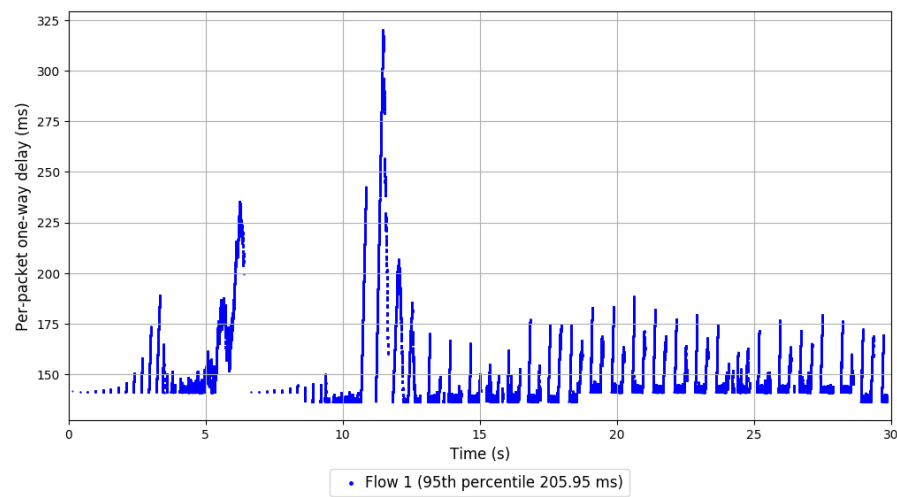
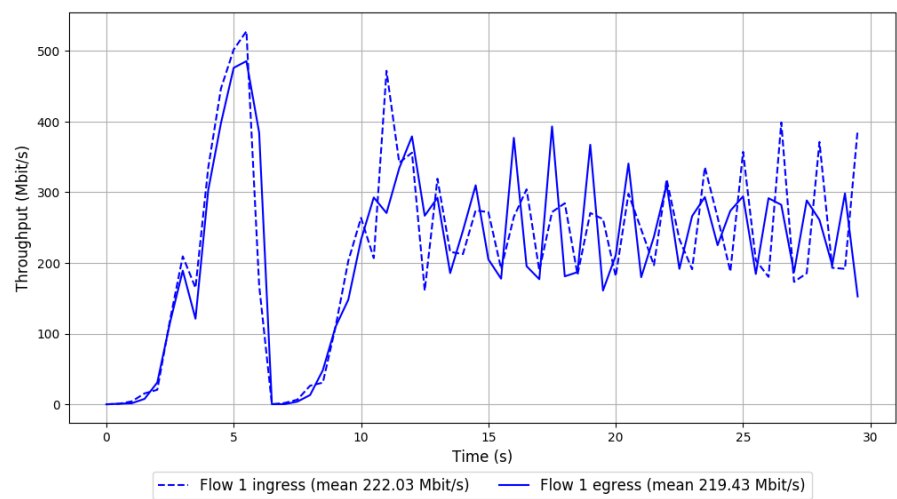
-- Flow 1:

Average throughput: 219.43 Mbit/s

95th percentile per-packet one-way delay: 205.953 ms

Loss rate: 2.05%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-20 10:59:29

End at: 2018-02-20 11:00:00

Below is generated by plot.py at 2018-02-20 14:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.65 Mbit/s

95th percentile per-packet one-way delay: 241.106 ms

Loss rate: 3.98%

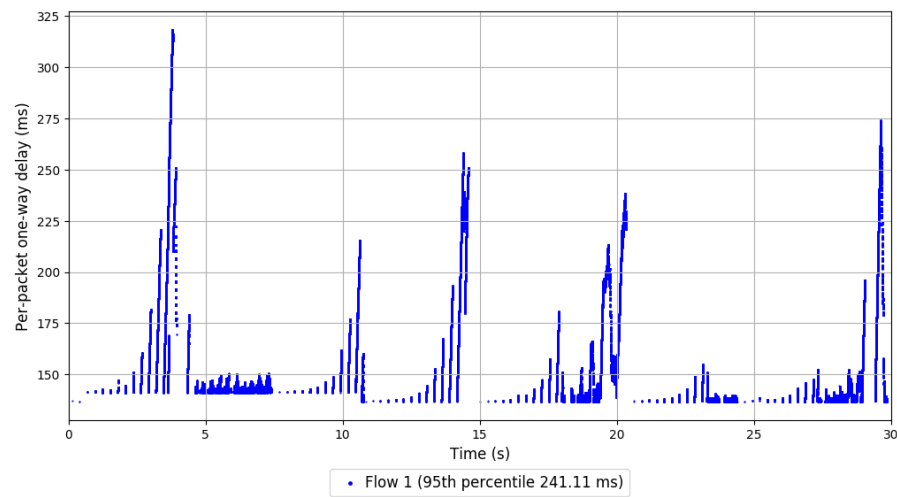
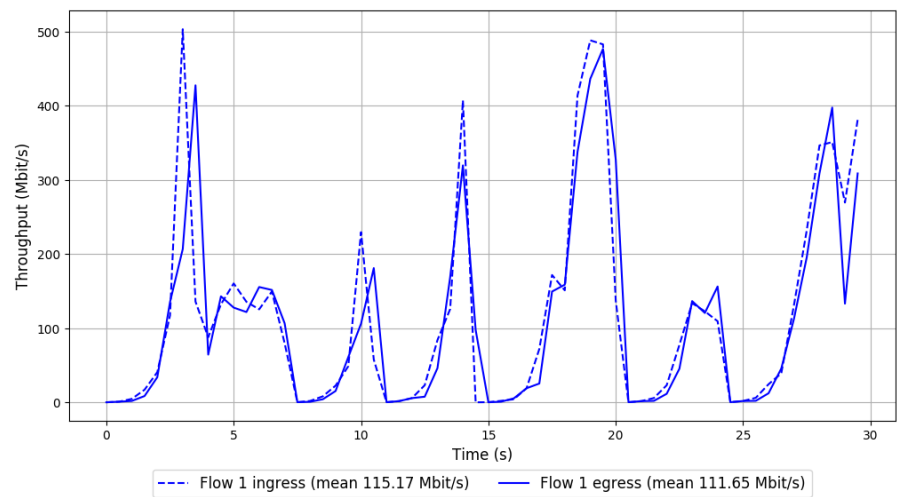
-- Flow 1:

Average throughput: 111.65 Mbit/s

95th percentile per-packet one-way delay: 241.106 ms

Loss rate: 3.98%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-20 11:15:15

End at: 2018-02-20 11:15:45

Below is generated by plot.py at 2018-02-20 14:57:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.69 Mbit/s

95th percentile per-packet one-way delay: 240.893 ms

Loss rate: 2.45%

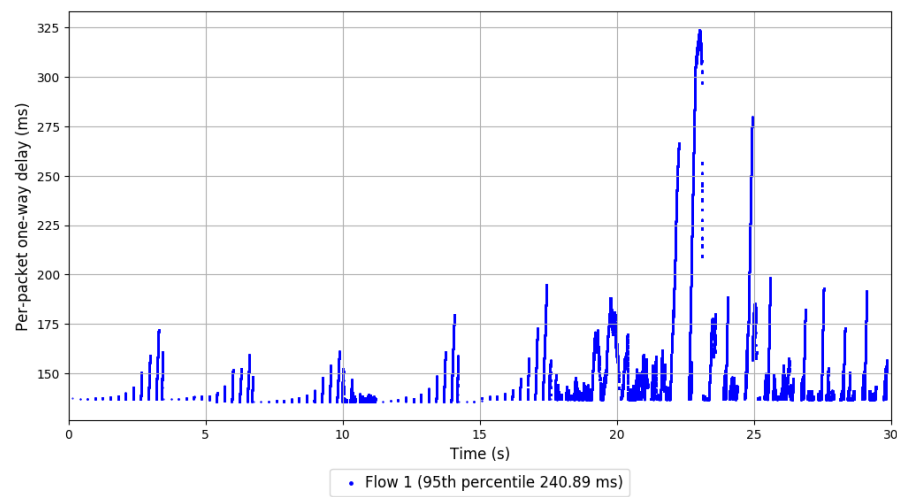
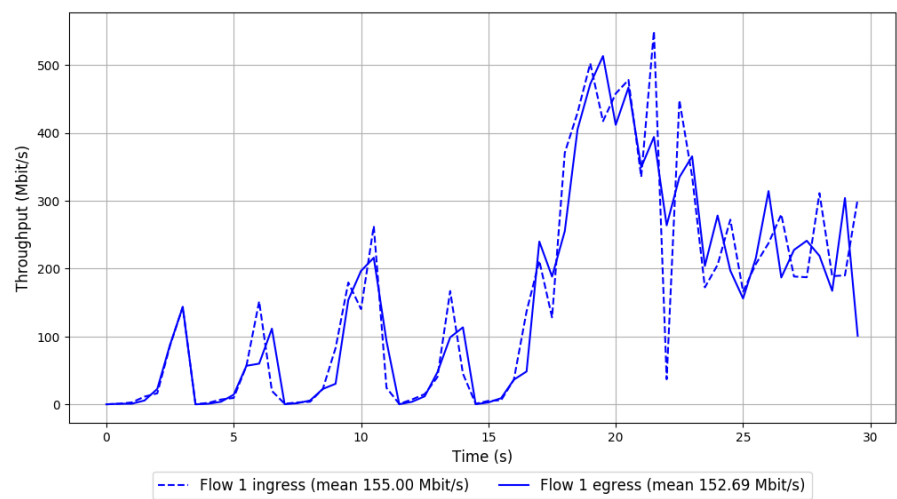
-- Flow 1:

Average throughput: 152.69 Mbit/s

95th percentile per-packet one-way delay: 240.893 ms

Loss rate: 2.45%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-20 11:30:51

End at: 2018-02-20 11:31:21

Below is generated by plot.py at 2018-02-20 14:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.10 Mbit/s

95th percentile per-packet one-way delay: 180.906 ms

Loss rate: 1.66%

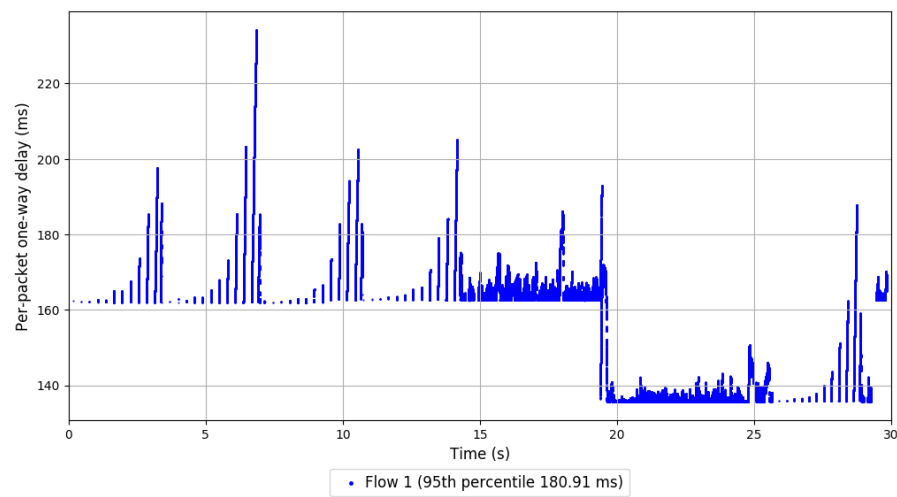
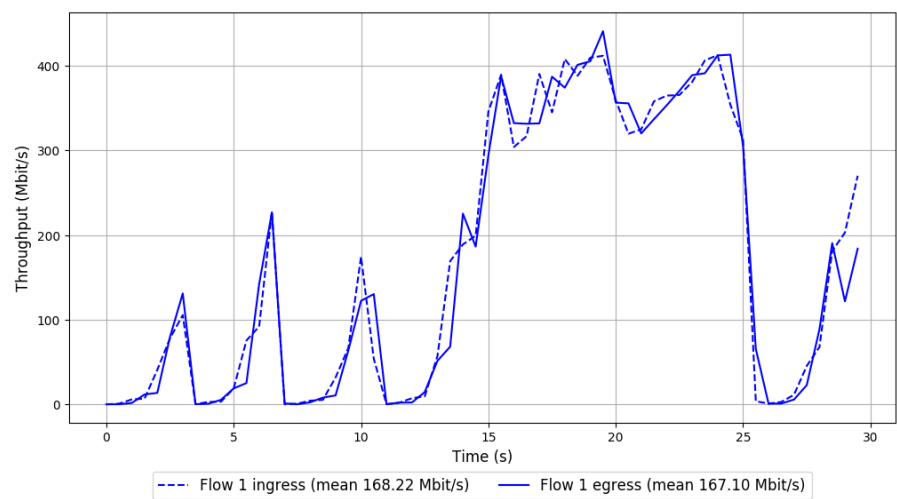
-- Flow 1:

Average throughput: 167.10 Mbit/s

95th percentile per-packet one-way delay: 180.906 ms

Loss rate: 1.66%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-20 11:46:25

End at: 2018-02-20 11:46:55

Below is generated by plot.py at 2018-02-20 14:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.86 Mbit/s

95th percentile per-packet one-way delay: 212.079 ms

Loss rate: 2.15%

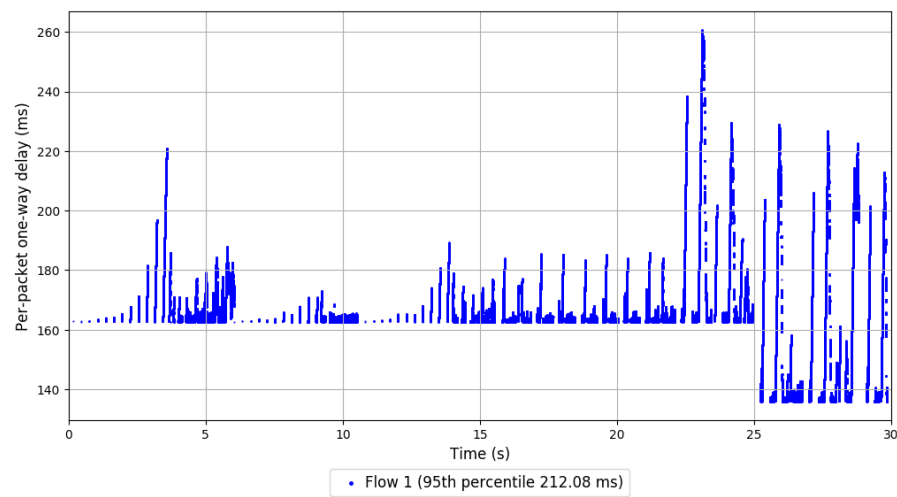
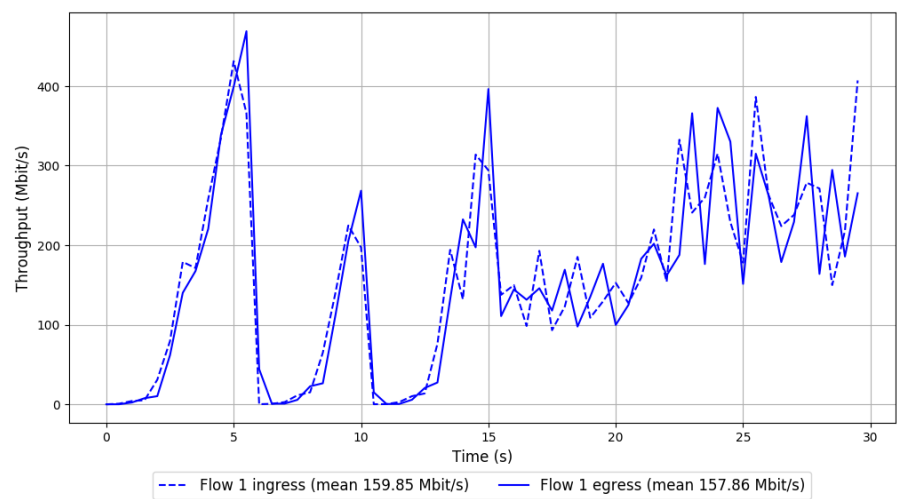
-- Flow 1:

Average throughput: 157.86 Mbit/s

95th percentile per-packet one-way delay: 212.079 ms

Loss rate: 2.15%

Run 10: Report of Verus — Data Link

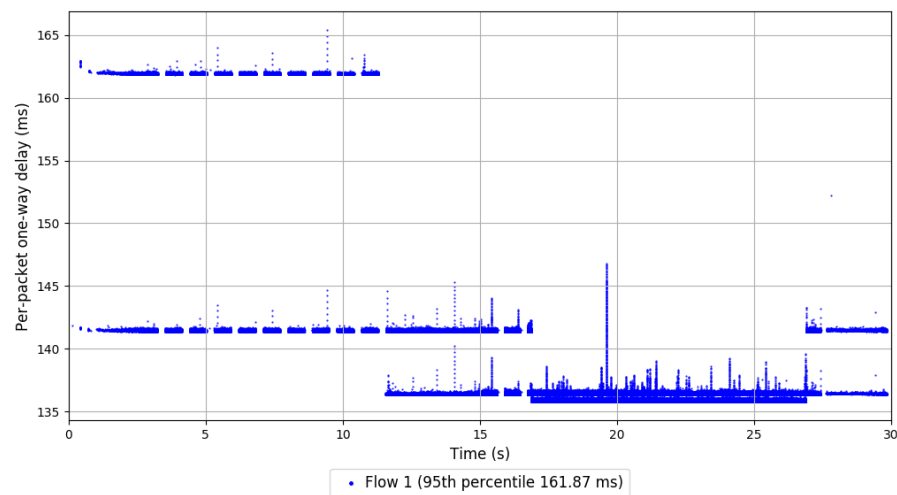
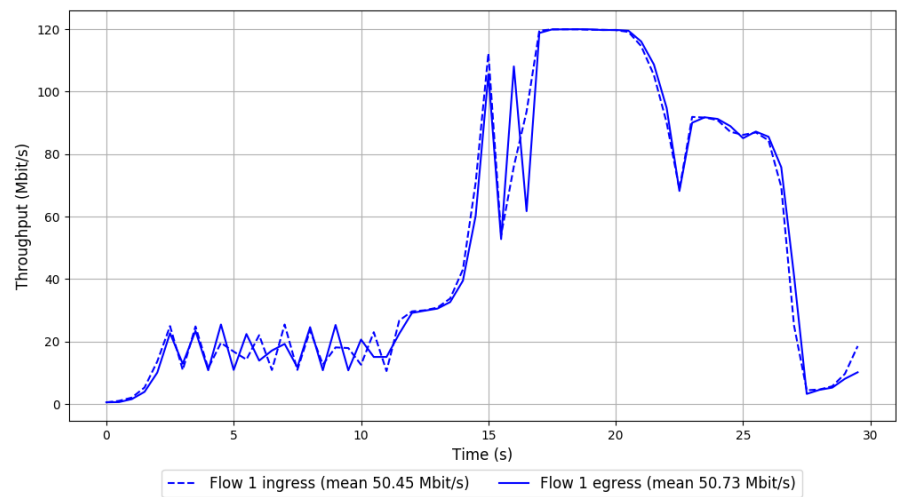


```
Run 1: Statistics of Copa

Start at: 2018-02-20 09:23:38
End at: 2018-02-20 09:24:09

# Below is generated by plot.py at 2018-02-20 14:58:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 161.869 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 161.869 ms
Loss rate: 0.39%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-20 09:39:17

End at: 2018-02-20 09:39:47

Below is generated by plot.py at 2018-02-20 14:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 136.083 ms

Loss rate: 1.01%

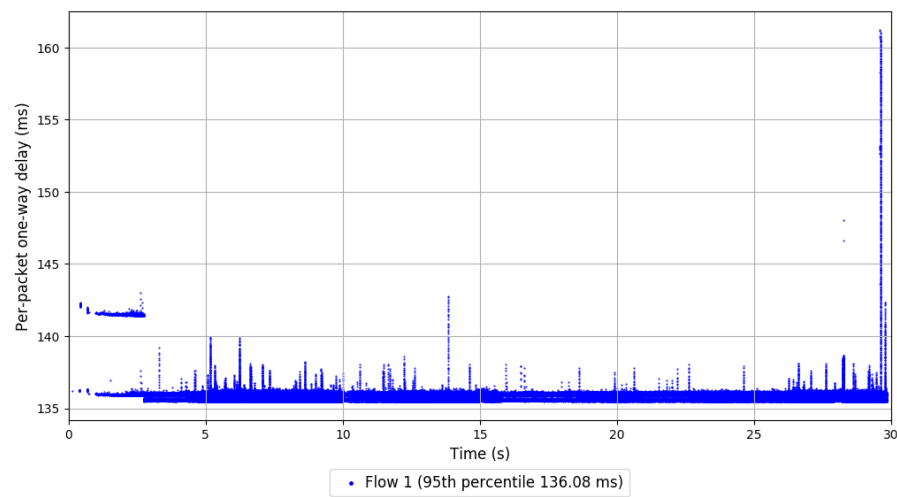
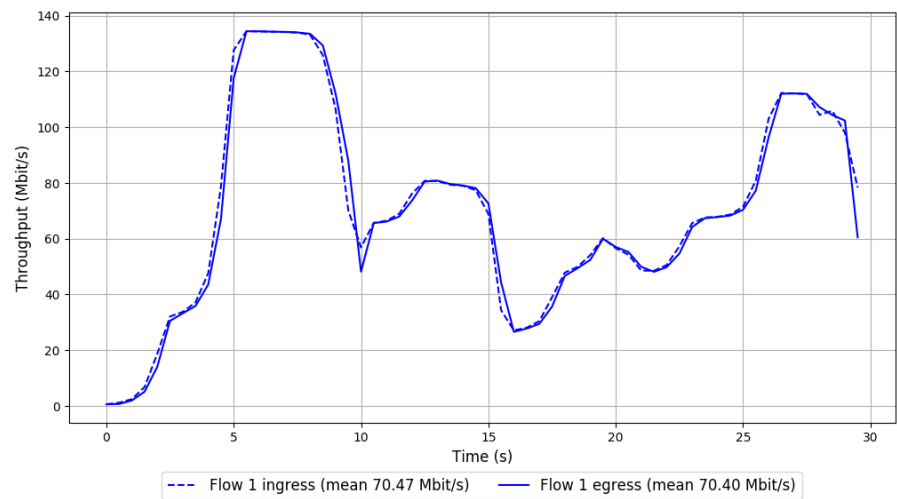
-- Flow 1:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 136.083 ms

Loss rate: 1.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-20 09:54:38

End at: 2018-02-20 09:55:08

Below is generated by plot.py at 2018-02-20 14:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.90 Mbit/s

95th percentile per-packet one-way delay: 162.792 ms

Loss rate: 0.00%

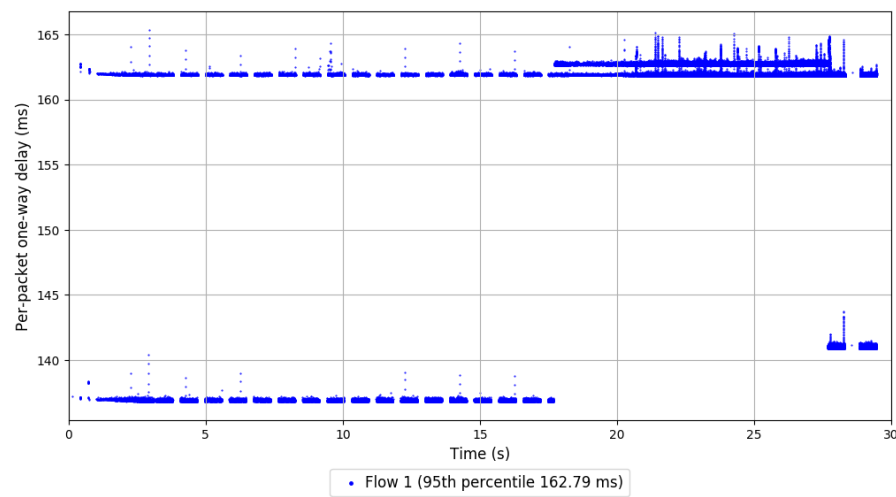
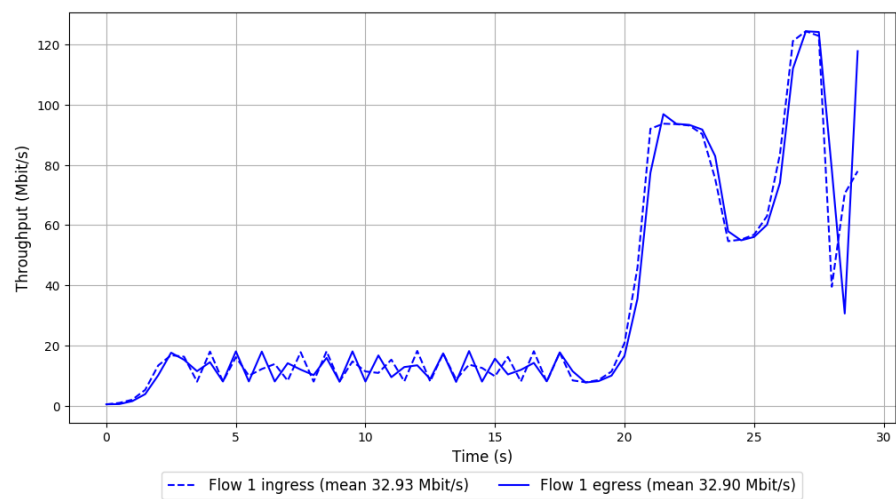
-- Flow 1:

Average throughput: 32.90 Mbit/s

95th percentile per-packet one-way delay: 162.792 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-20 10:10:12

End at: 2018-02-20 10:10:42

Below is generated by plot.py at 2018-02-20 14:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.89 Mbit/s

95th percentile per-packet one-way delay: 161.734 ms

Loss rate: 0.00%

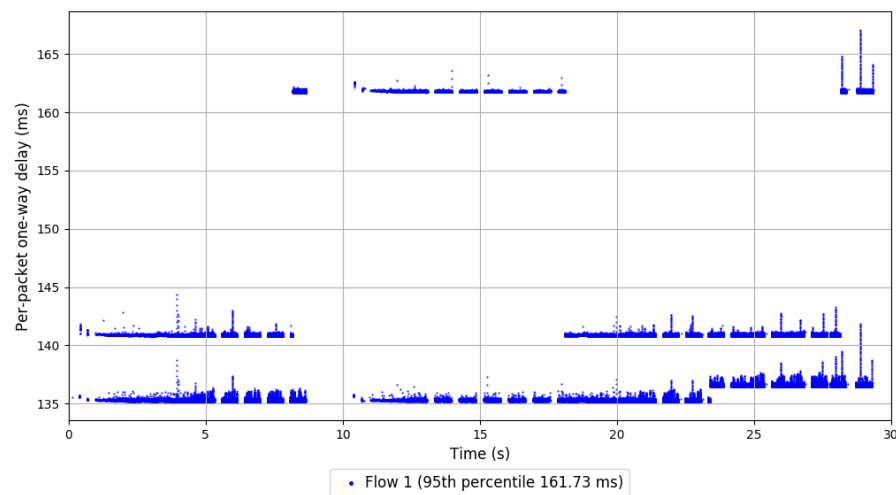
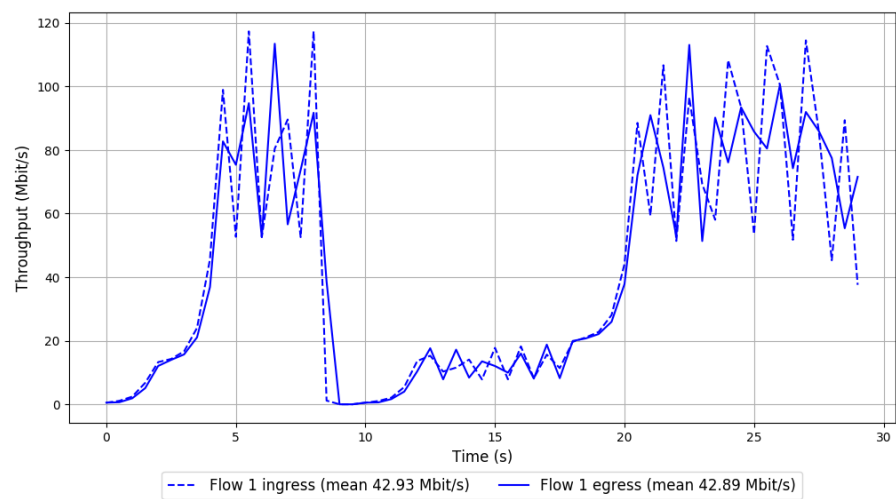
-- Flow 1:

Average throughput: 42.89 Mbit/s

95th percentile per-packet one-way delay: 161.734 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-20 10:25:36

End at: 2018-02-20 10:26:06

Below is generated by plot.py at 2018-02-20 15:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.58 Mbit/s

95th percentile per-packet one-way delay: 461.127 ms

Loss rate: 40.37%

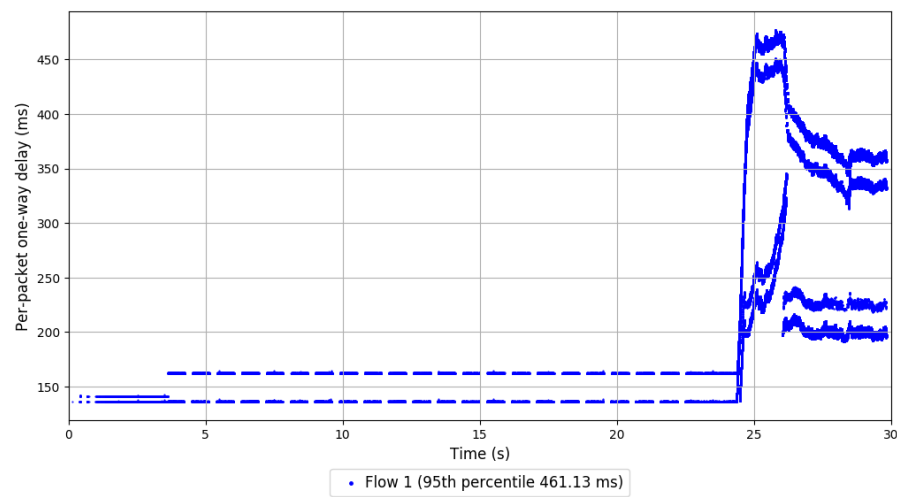
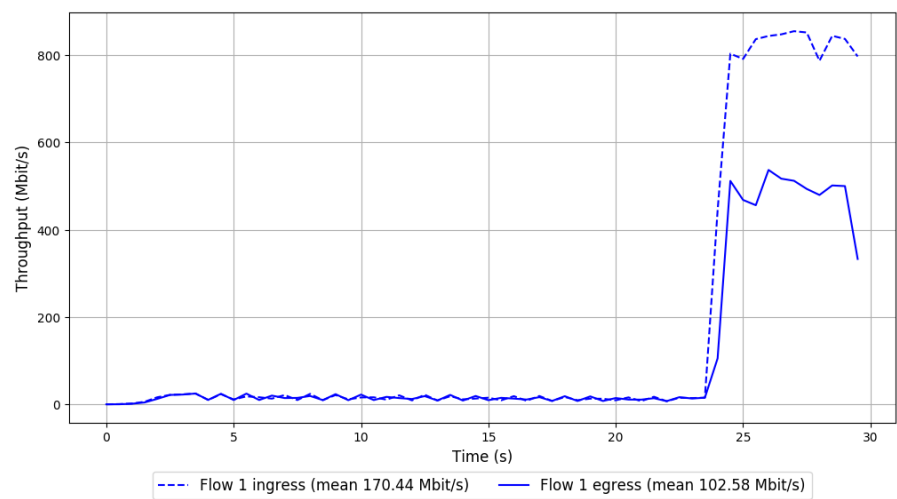
-- Flow 1:

Average throughput: 102.58 Mbit/s

95th percentile per-packet one-way delay: 461.127 ms

Loss rate: 40.37%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-20 10:41:44

End at: 2018-02-20 10:42:14

Below is generated by plot.py at 2018-02-20 15:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.33 Mbit/s

95th percentile per-packet one-way delay: 141.142 ms

Loss rate: 0.09%

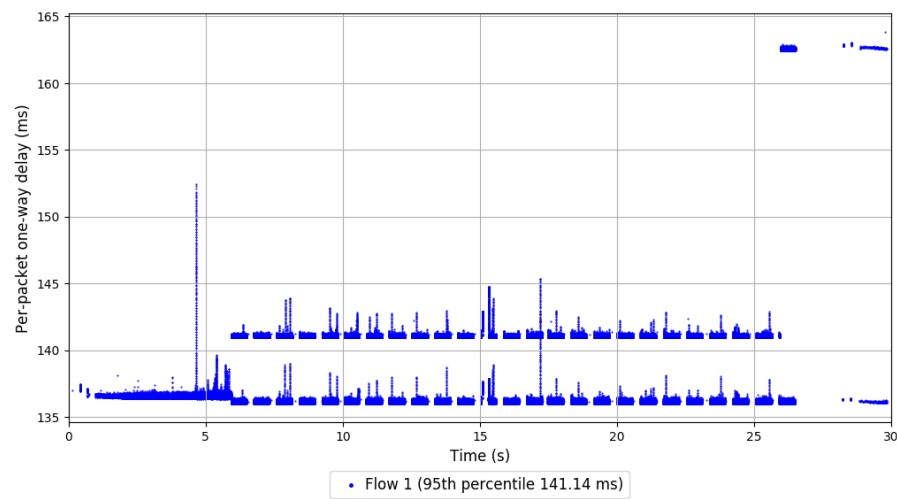
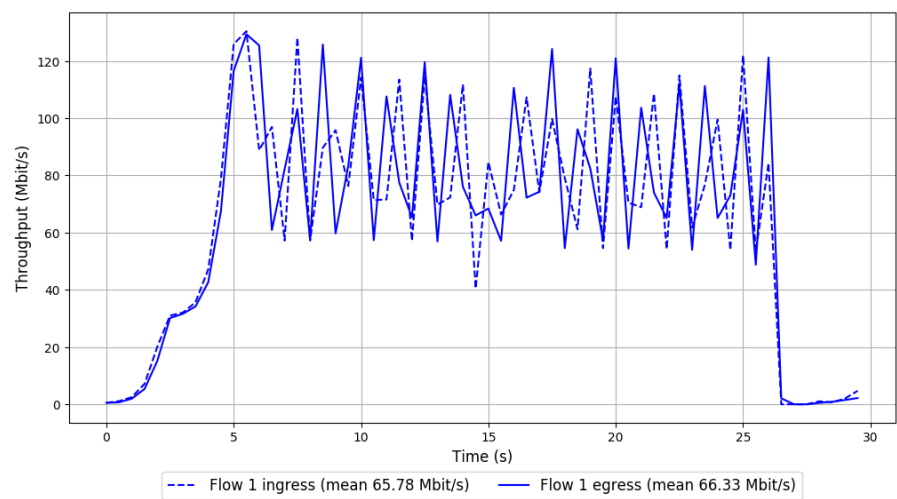
-- Flow 1:

Average throughput: 66.33 Mbit/s

95th percentile per-packet one-way delay: 141.142 ms

Loss rate: 0.09%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-20 10:57:32

End at: 2018-02-20 10:58:02

Below is generated by plot.py at 2018-02-20 15:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.39 Mbit/s

95th percentile per-packet one-way delay: 141.098 ms

Loss rate: 1.40%

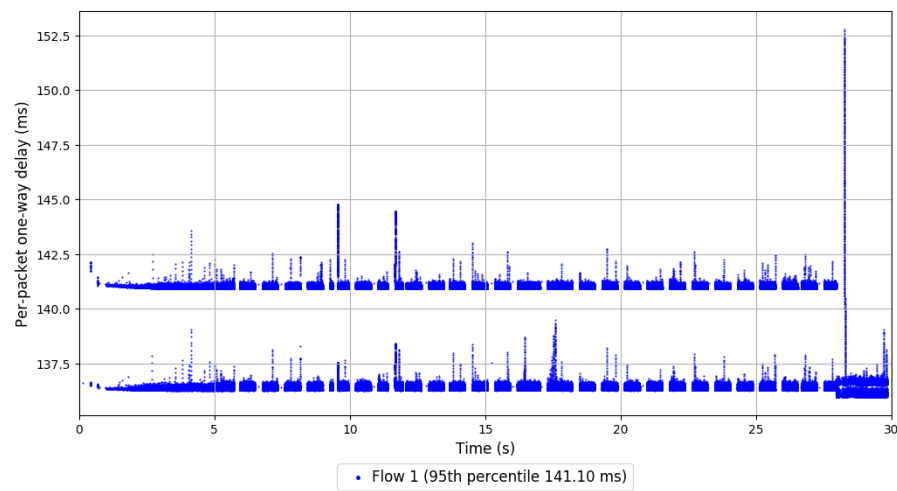
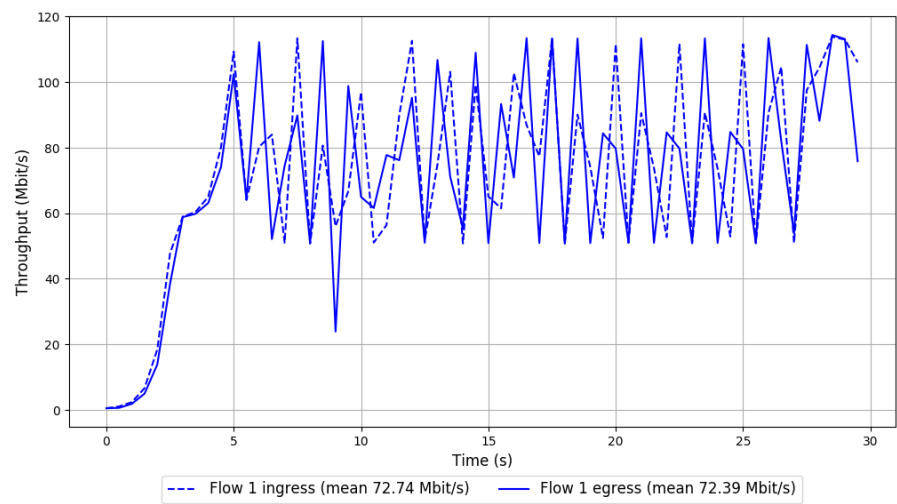
-- Flow 1:

Average throughput: 72.39 Mbit/s

95th percentile per-packet one-way delay: 141.098 ms

Loss rate: 1.40%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-20 11:13:25

End at: 2018-02-20 11:13:55

Below is generated by plot.py at 2018-02-20 15:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.09 Mbit/s

95th percentile per-packet one-way delay: 161.857 ms

Loss rate: 3.48%

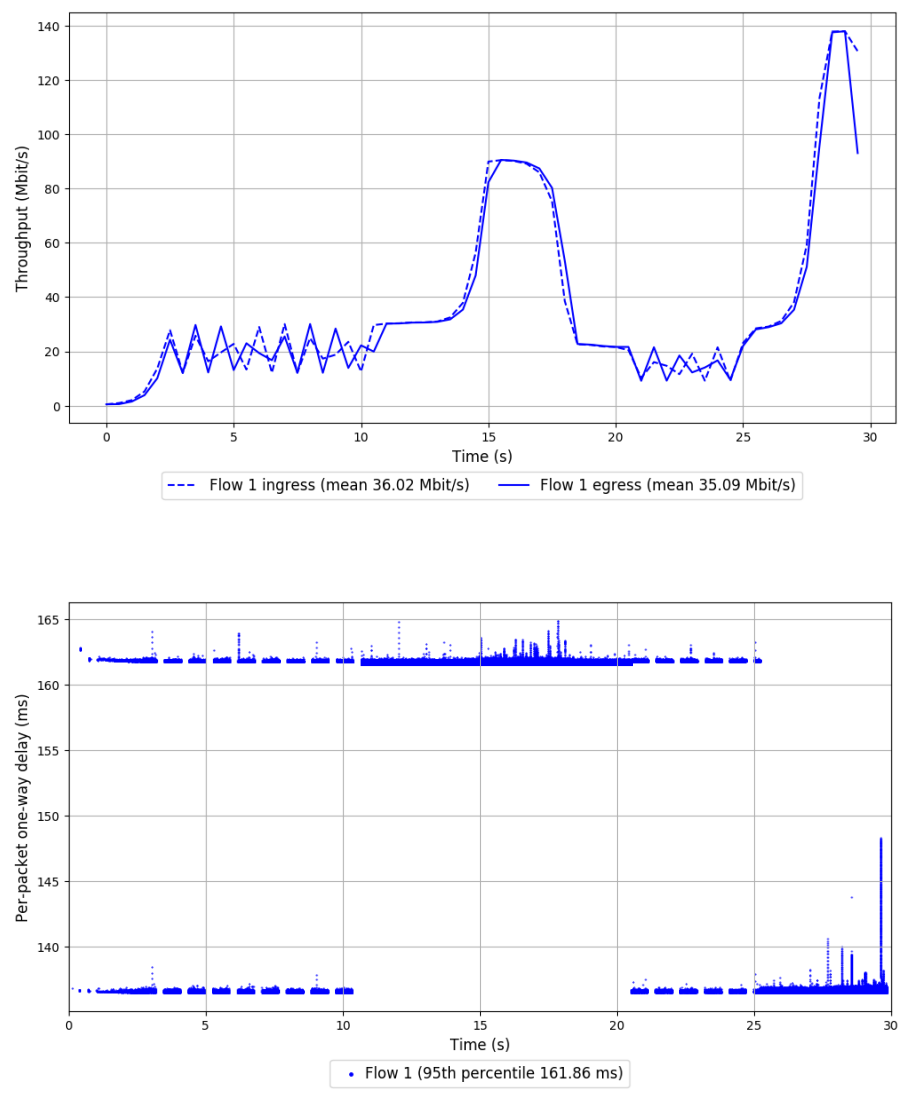
-- Flow 1:

Average throughput: 35.09 Mbit/s

95th percentile per-packet one-way delay: 161.857 ms

Loss rate: 3.48%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-20 11:28:56

End at: 2018-02-20 11:29:26

Below is generated by plot.py at 2018-02-20 15:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.23 Mbit/s

95th percentile per-packet one-way delay: 162.909 ms

Loss rate: 0.60%

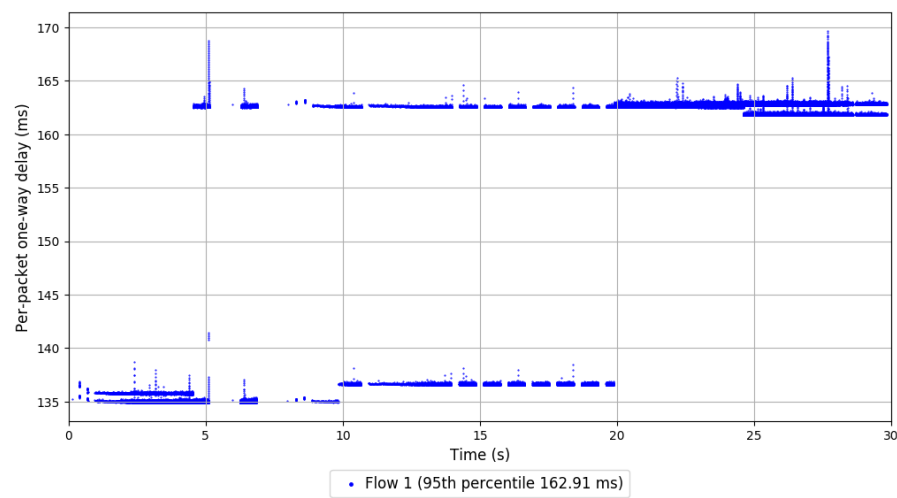
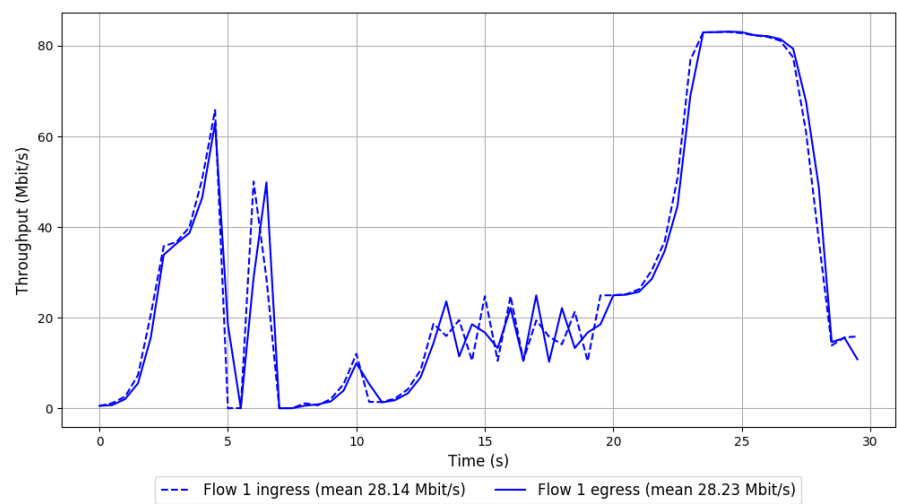
-- Flow 1:

Average throughput: 28.23 Mbit/s

95th percentile per-packet one-way delay: 162.909 ms

Loss rate: 0.60%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-20 11:44:35

End at: 2018-02-20 11:45:05

Below is generated by plot.py at 2018-02-20 15:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 162.857 ms

Loss rate: 2.05%

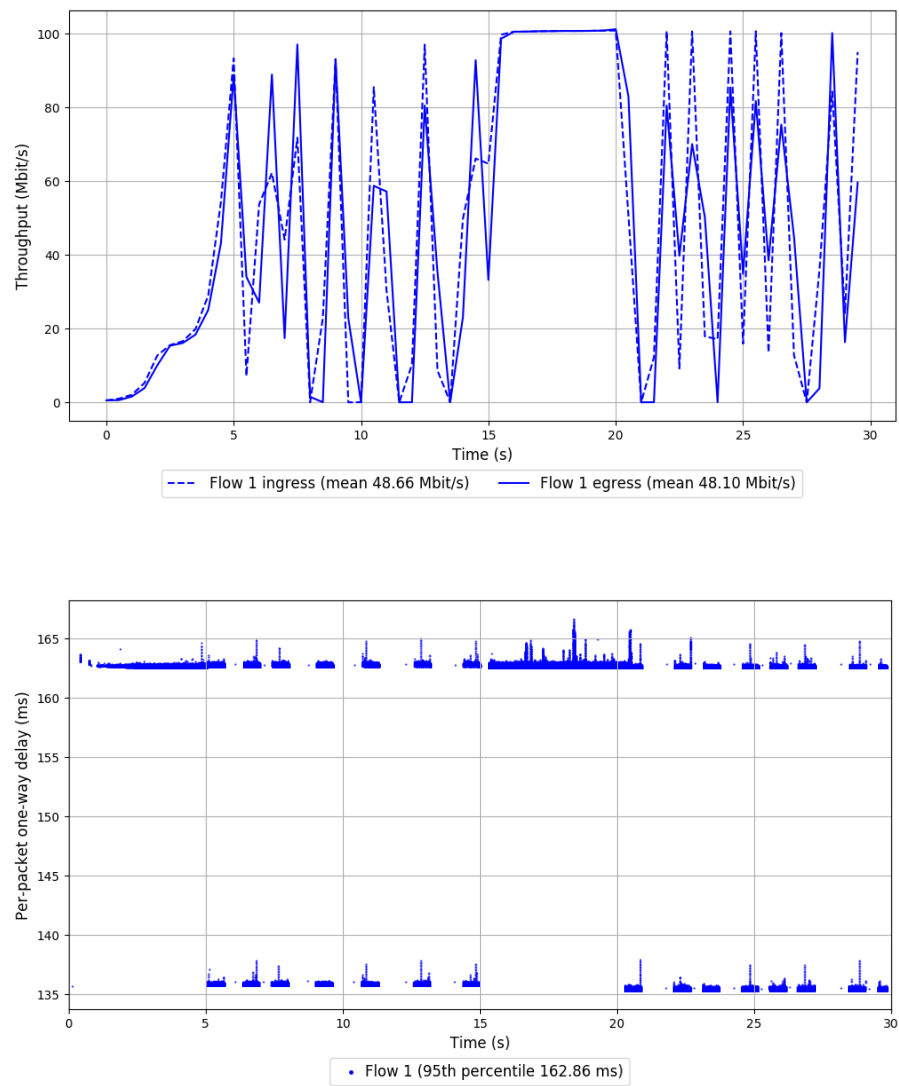
-- Flow 1:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 162.857 ms

Loss rate: 2.05%

Run 10: Report of Copa — Data Link

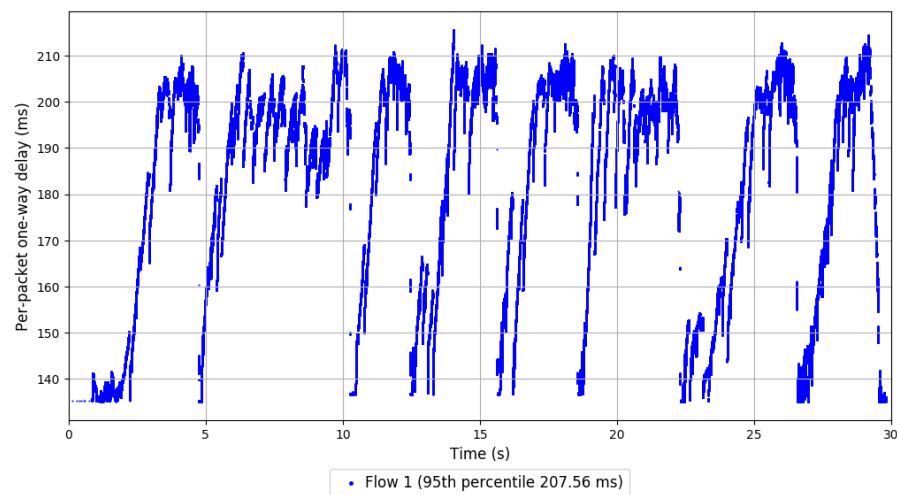
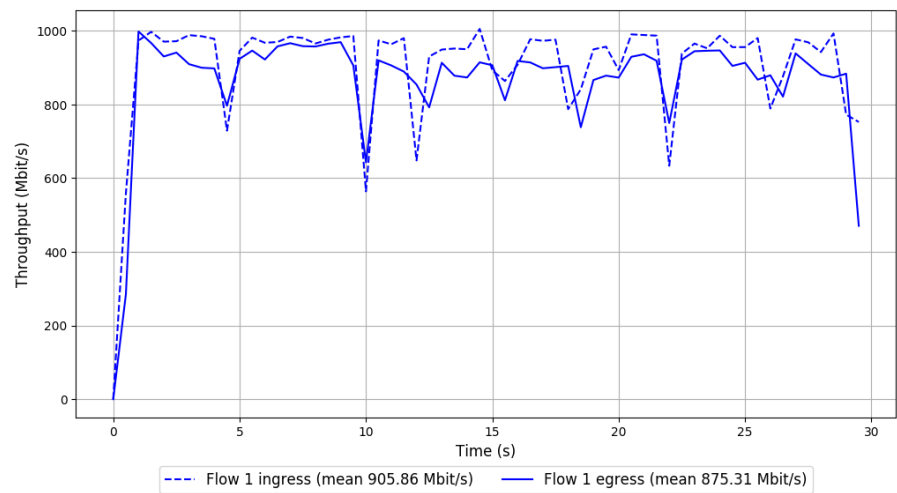


```
Run 1: Statistics of FillP

Start at: 2018-02-20 09:21:25
End at: 2018-02-20 09:21:55

# Below is generated by plot.py at 2018-02-20 15:14:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 875.31 Mbit/s
95th percentile per-packet one-way delay: 207.562 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 875.31 Mbit/s
95th percentile per-packet one-way delay: 207.562 ms
Loss rate: 4.25%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-20 09:37:05

End at: 2018-02-20 09:37:35

Below is generated by plot.py at 2018-02-20 15:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.26 Mbit/s

95th percentile per-packet one-way delay: 233.558 ms

Loss rate: 5.69%

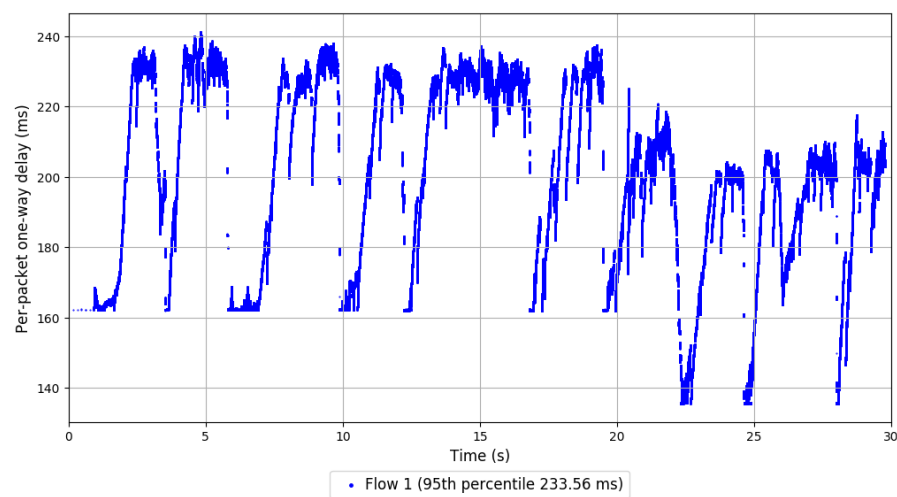
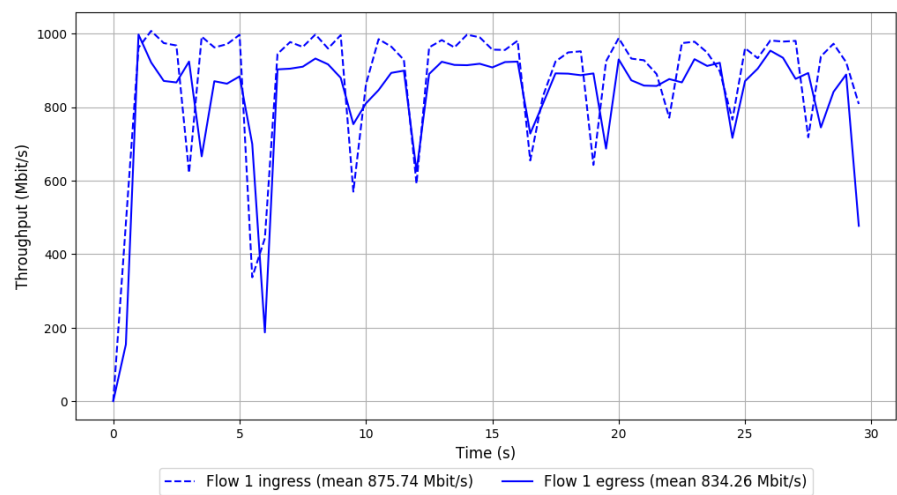
-- Flow 1:

Average throughput: 834.26 Mbit/s

95th percentile per-packet one-way delay: 233.558 ms

Loss rate: 5.69%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-20 09:52:26

End at: 2018-02-20 09:52:56

Below is generated by plot.py at 2018-02-20 15:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 829.09 Mbit/s

95th percentile per-packet one-way delay: 210.801 ms

Loss rate: 5.22%

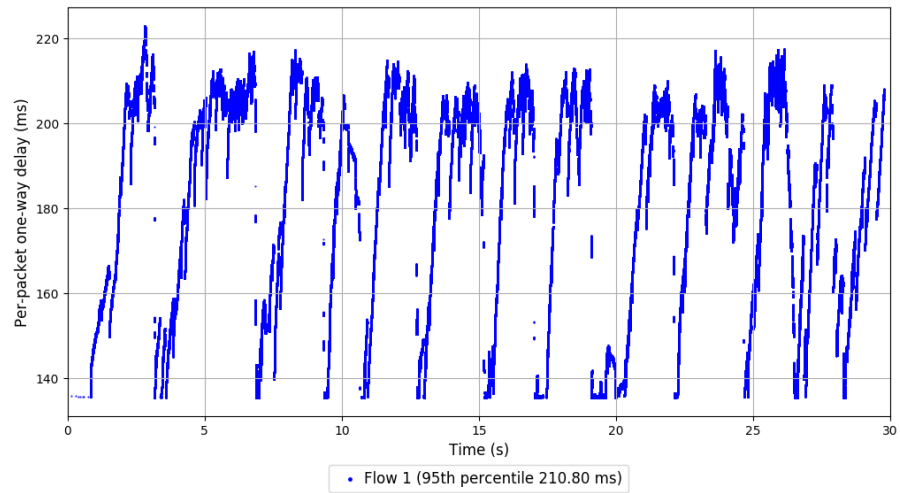
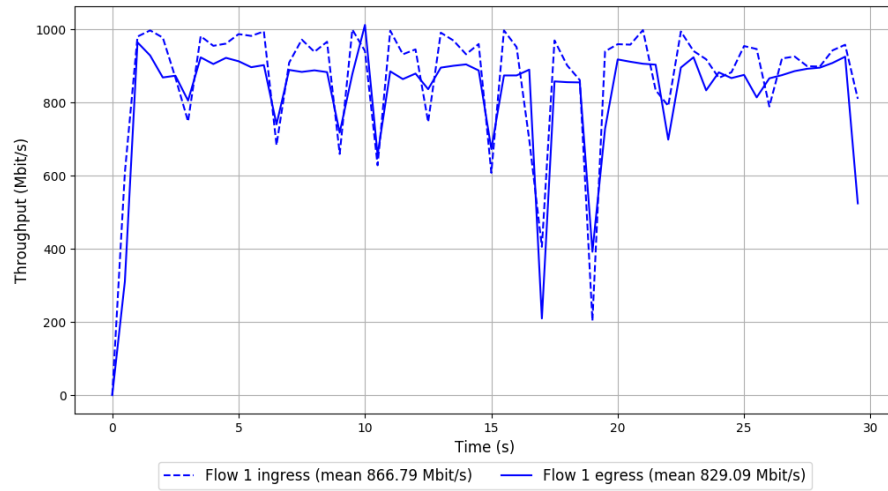
-- Flow 1:

Average throughput: 829.09 Mbit/s

95th percentile per-packet one-way delay: 210.801 ms

Loss rate: 5.22%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-20 10:07:48

End at: 2018-02-20 10:08:18

Below is generated by plot.py at 2018-02-20 15:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 804.66 Mbit/s

95th percentile per-packet one-way delay: 234.849 ms

Loss rate: 6.73%

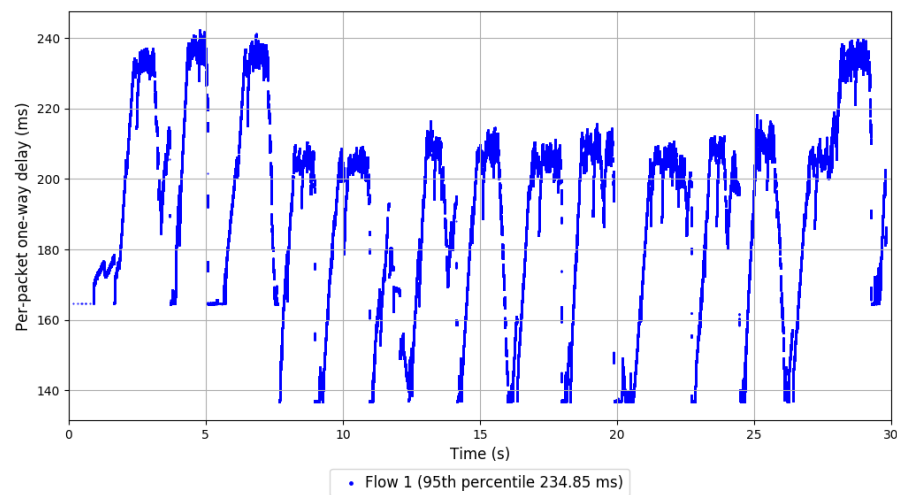
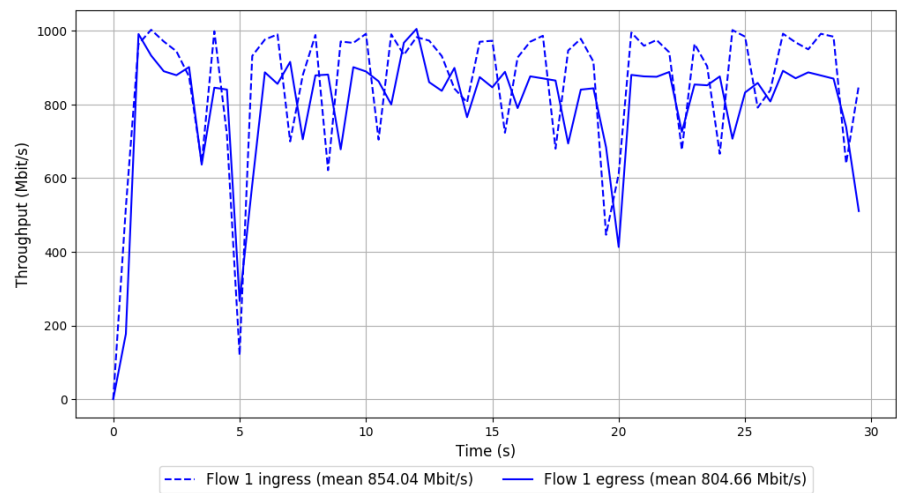
-- Flow 1:

Average throughput: 804.66 Mbit/s

95th percentile per-packet one-way delay: 234.849 ms

Loss rate: 6.73%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-20 10:23:25

End at: 2018-02-20 10:23:55

Below is generated by plot.py at 2018-02-20 15:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 828.57 Mbit/s

95th percentile per-packet one-way delay: 229.773 ms

Loss rate: 5.83%

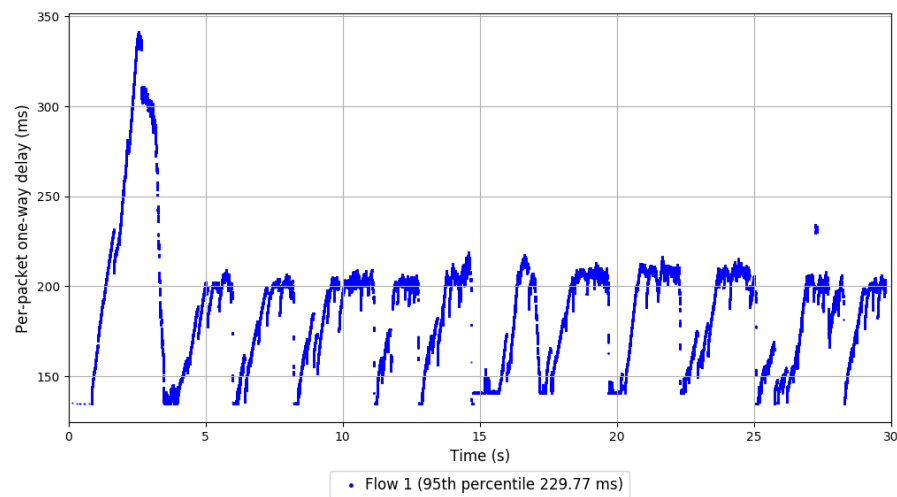
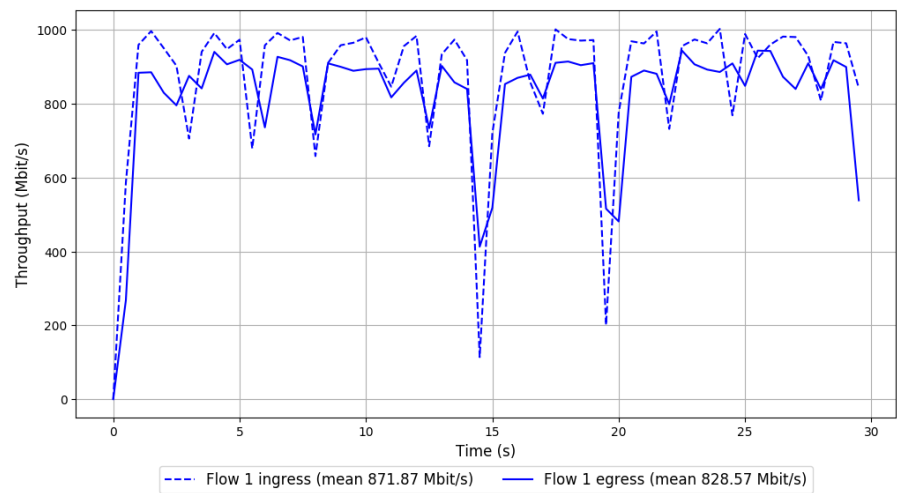
-- Flow 1:

Average throughput: 828.57 Mbit/s

95th percentile per-packet one-way delay: 229.773 ms

Loss rate: 5.83%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-20 10:39:22

End at: 2018-02-20 10:39:52

Below is generated by plot.py at 2018-02-20 15:15:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 845.36 Mbit/s

95th percentile per-packet one-way delay: 206.863 ms

Loss rate: 4.86%

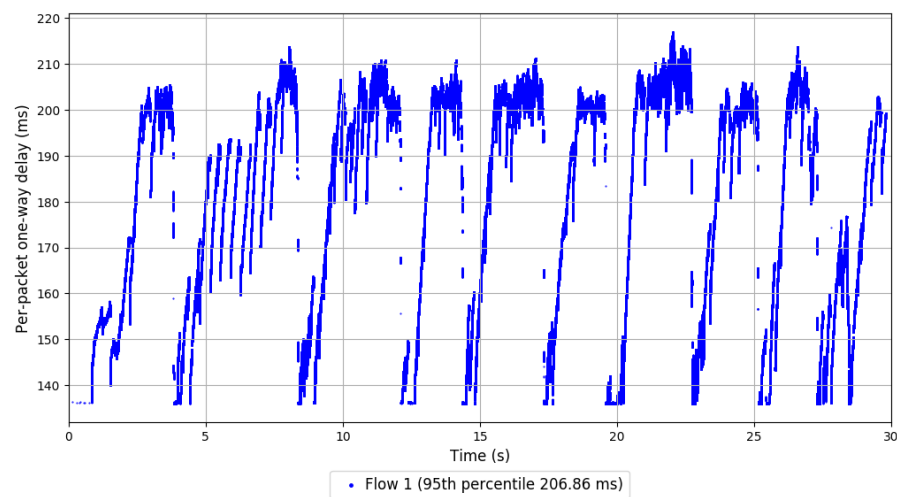
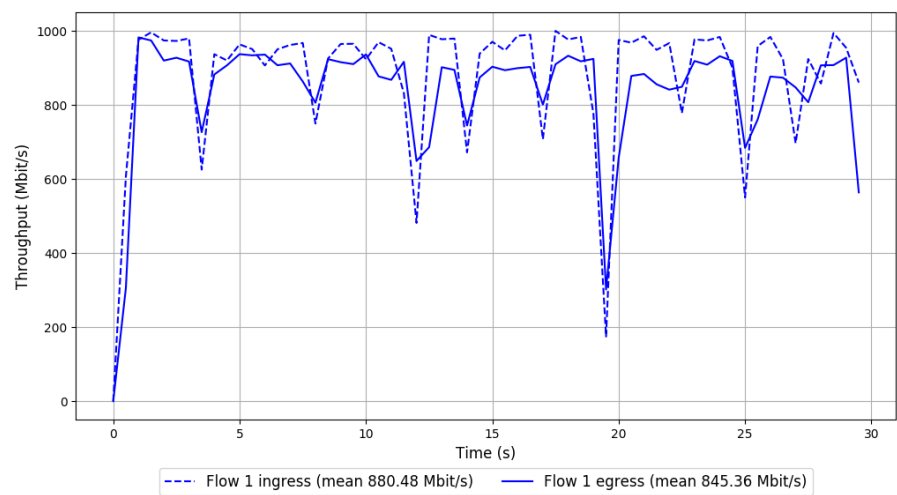
-- Flow 1:

Average throughput: 845.36 Mbit/s

95th percentile per-packet one-way delay: 206.863 ms

Loss rate: 4.86%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-20 10:55:11

End at: 2018-02-20 10:55:41

Below is generated by plot.py at 2018-02-20 15:15:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 832.52 Mbit/s

95th percentile per-packet one-way delay: 231.320 ms

Loss rate: 5.52%

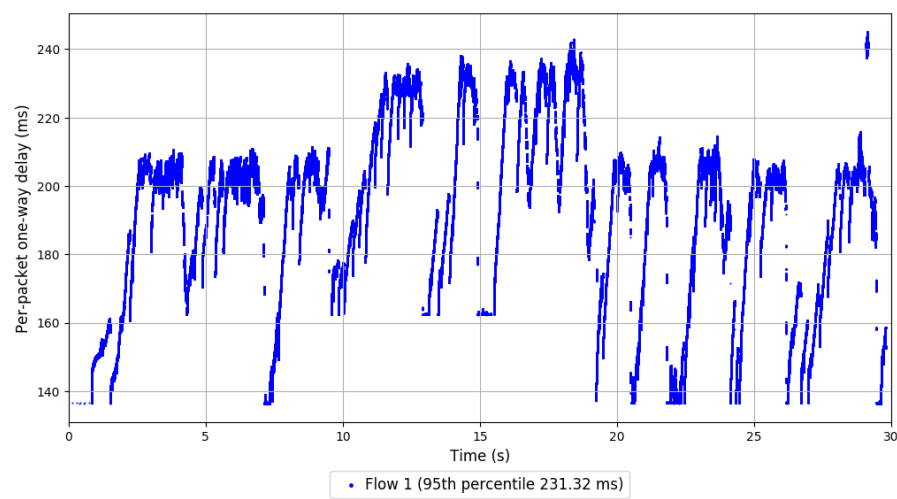
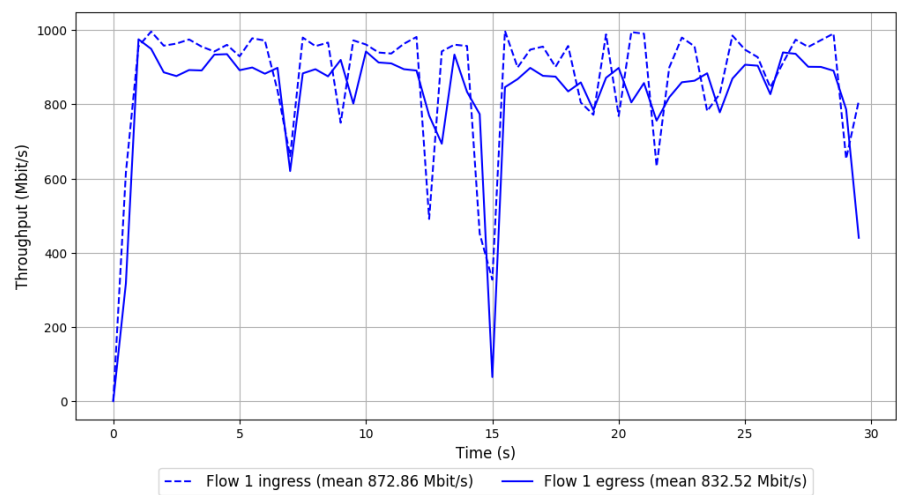
-- Flow 1:

Average throughput: 832.52 Mbit/s

95th percentile per-packet one-way delay: 231.320 ms

Loss rate: 5.52%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-20 11:11:14

End at: 2018-02-20 11:11:44

Below is generated by plot.py at 2018-02-20 15:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.15 Mbit/s

95th percentile per-packet one-way delay: 223.012 ms

Loss rate: 7.76%

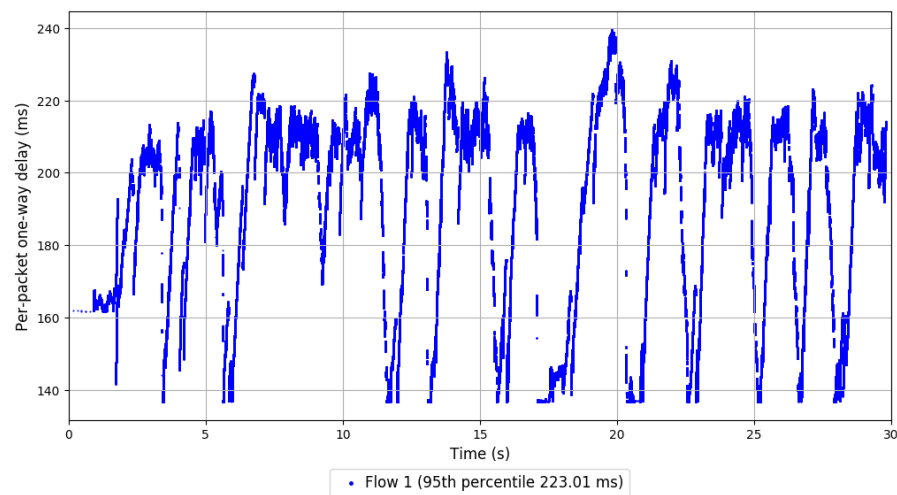
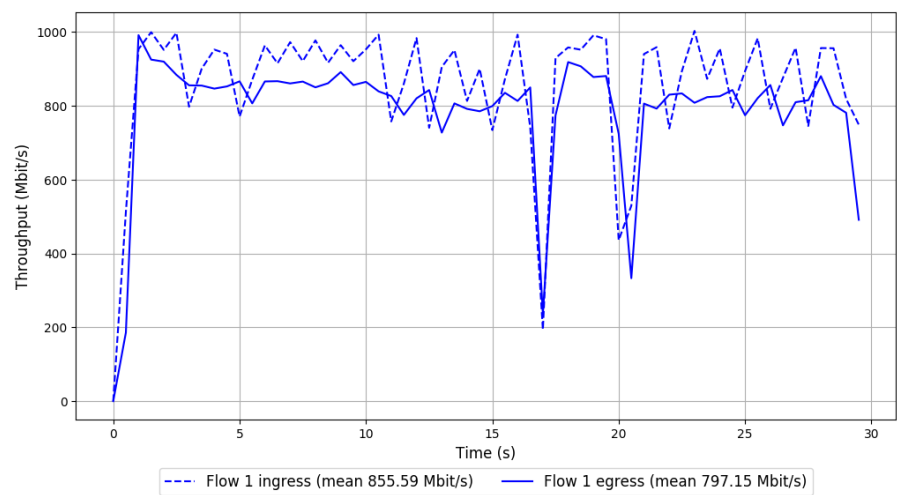
-- Flow 1:

Average throughput: 797.15 Mbit/s

95th percentile per-packet one-way delay: 223.012 ms

Loss rate: 7.76%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-20 11:26:45

End at: 2018-02-20 11:27:15

Below is generated by plot.py at 2018-02-20 15:30:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.58 Mbit/s

95th percentile per-packet one-way delay: 233.677 ms

Loss rate: 5.66%

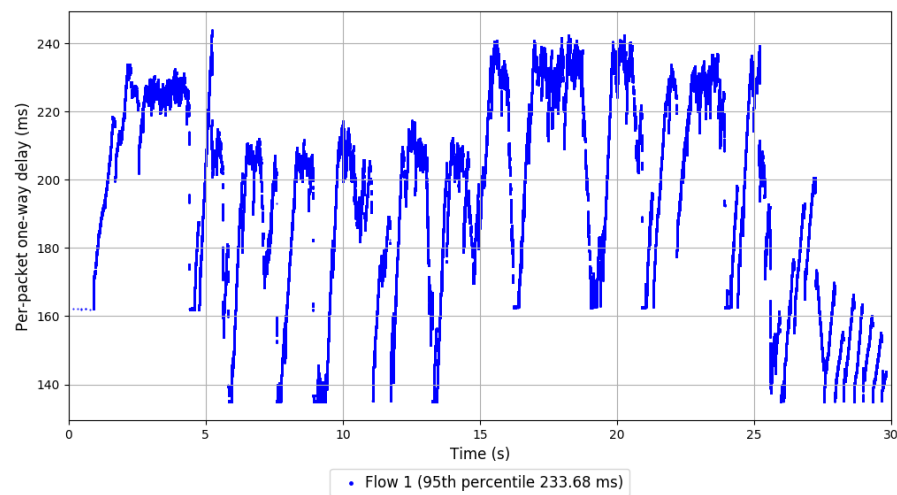
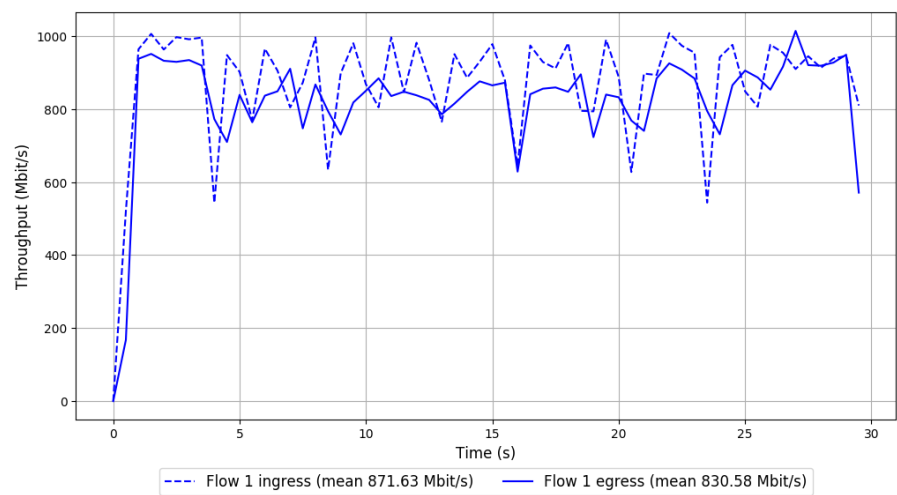
-- Flow 1:

Average throughput: 830.58 Mbit/s

95th percentile per-packet one-way delay: 233.677 ms

Loss rate: 5.66%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-20 11:42:09

End at: 2018-02-20 11:42:39

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.61 Mbit/s

95th percentile per-packet one-way delay: 213.155 ms

Loss rate: 1.87%

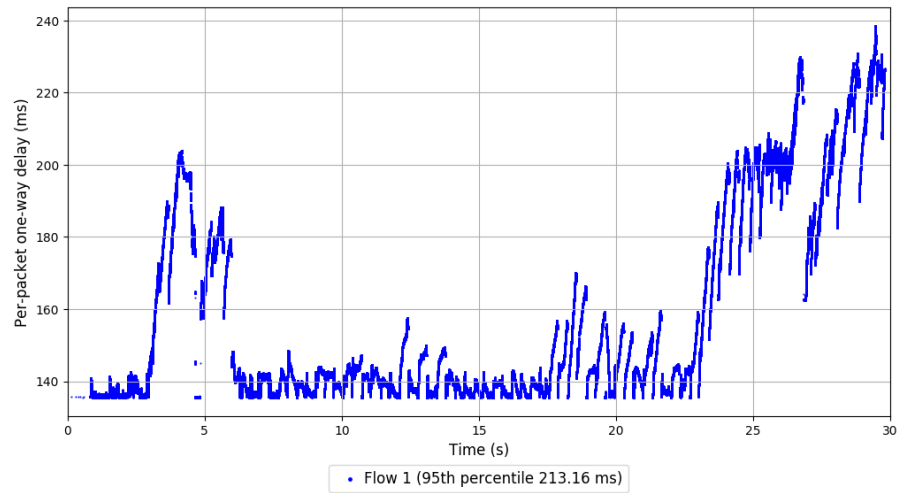
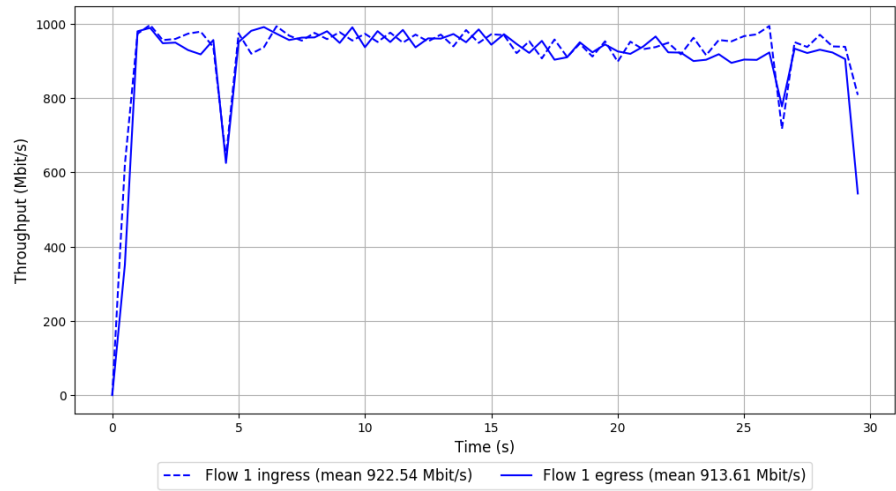
-- Flow 1:

Average throughput: 913.61 Mbit/s

95th percentile per-packet one-way delay: 213.155 ms

Loss rate: 1.87%

Run 10: Report of FillP — Data Link

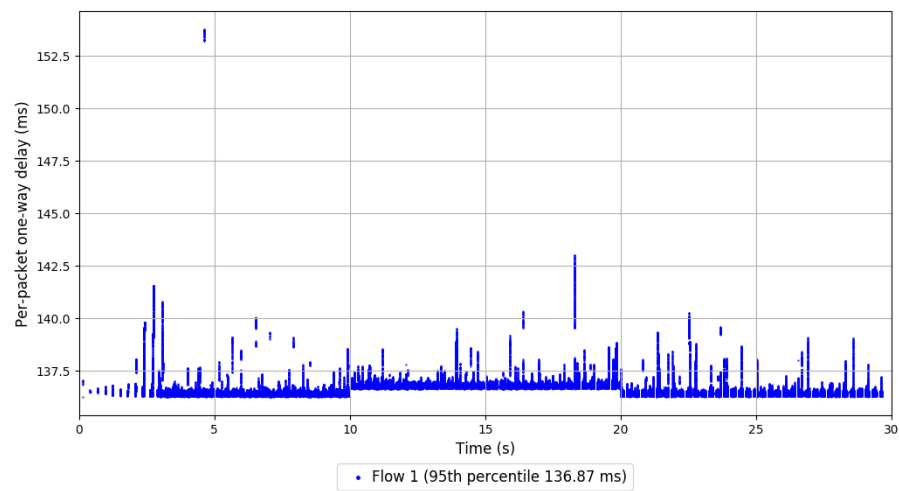
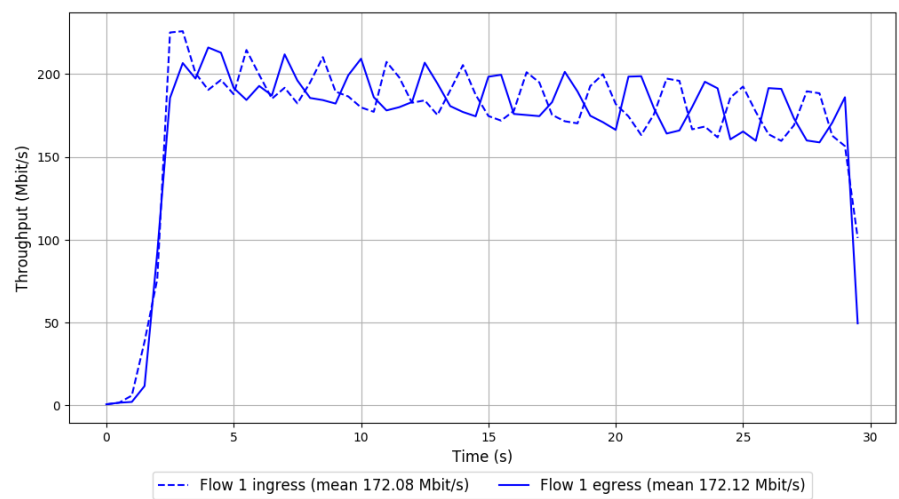


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-20 09:12:50
End at: 2018-02-20 09:13:20

# Below is generated by plot.py at 2018-02-20 15:31:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.12 Mbit/s
95th percentile per-packet one-way delay: 136.874 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 172.12 Mbit/s
95th percentile per-packet one-way delay: 136.874 ms
Loss rate: 0.89%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-20 09:28:45

End at: 2018-02-20 09:29:15

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.04 Mbit/s

95th percentile per-packet one-way delay: 136.630 ms

Loss rate: 0.89%

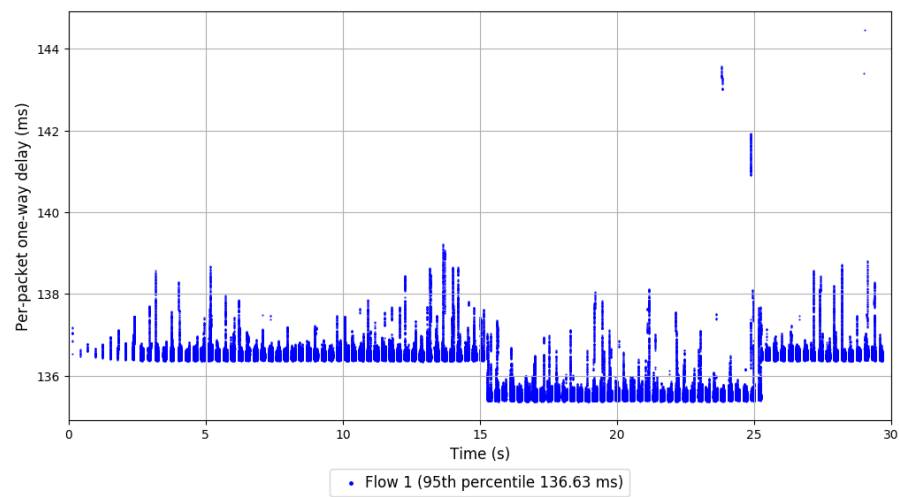
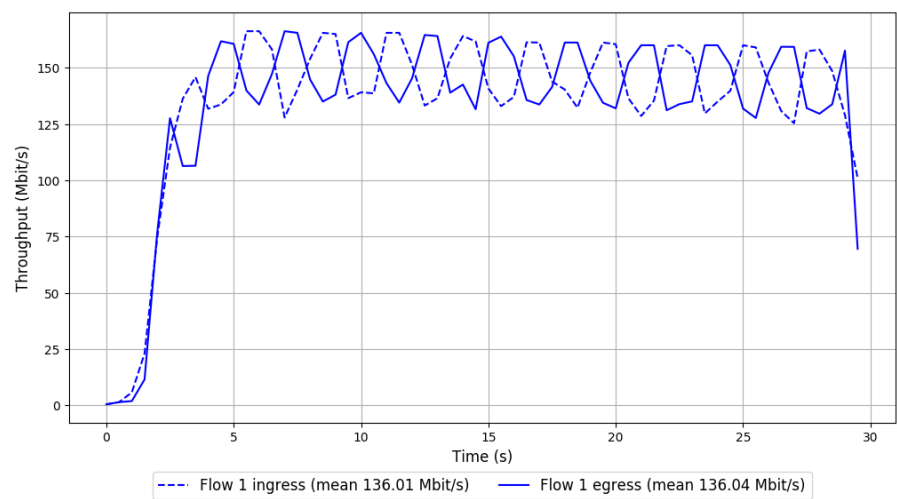
-- Flow 1:

Average throughput: 136.04 Mbit/s

95th percentile per-packet one-way delay: 136.630 ms

Loss rate: 0.89%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-20 09:44:28

End at: 2018-02-20 09:44:58

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.75 Mbit/s

95th percentile per-packet one-way delay: 162.112 ms

Loss rate: 0.78%

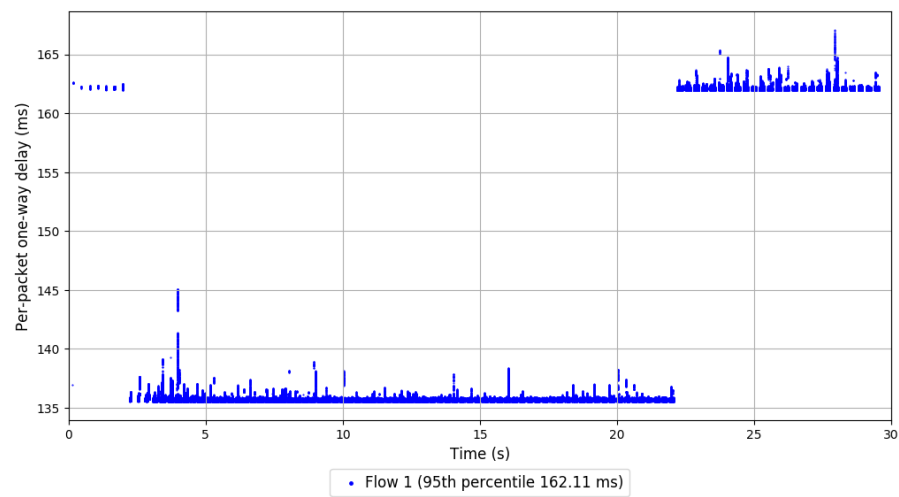
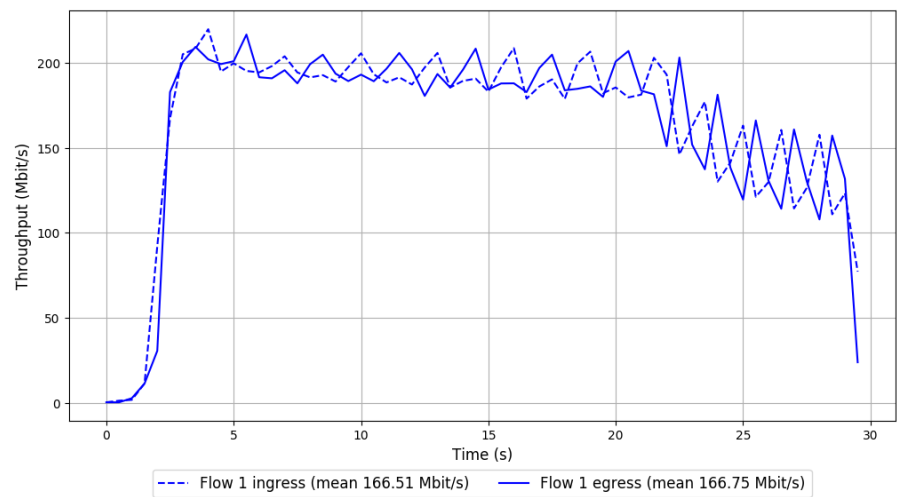
-- Flow 1:

Average throughput: 166.75 Mbit/s

95th percentile per-packet one-way delay: 162.112 ms

Loss rate: 0.78%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-20 09:59:37

End at: 2018-02-20 10:00:07

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.96 Mbit/s

95th percentile per-packet one-way delay: 161.964 ms

Loss rate: 0.84%

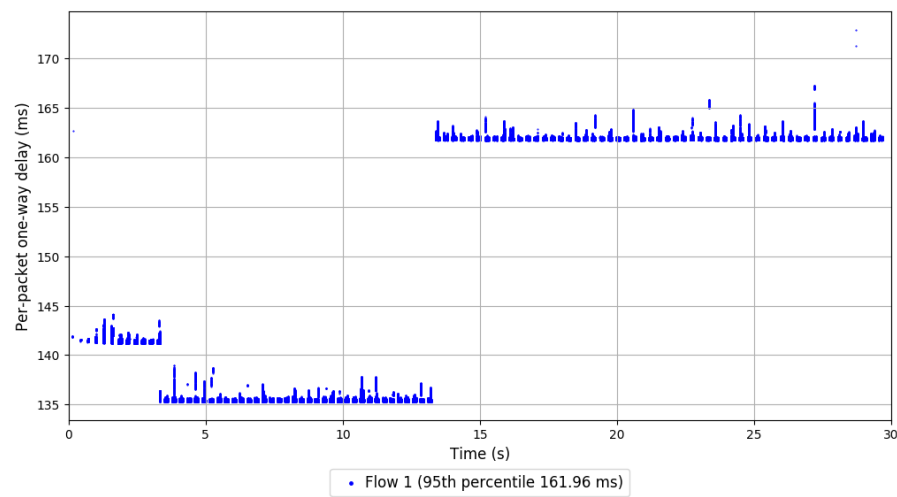
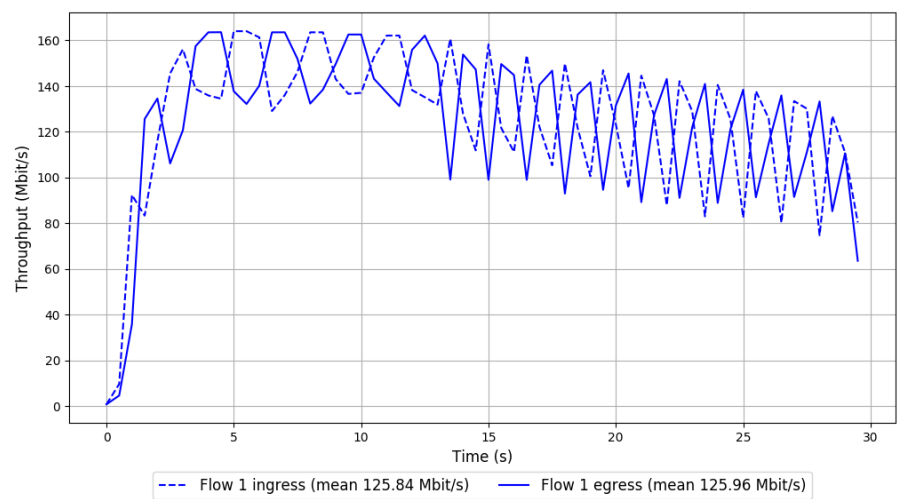
-- Flow 1:

Average throughput: 125.96 Mbit/s

95th percentile per-packet one-way delay: 161.964 ms

Loss rate: 0.84%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-20 10:15:23

End at: 2018-02-20 10:15:53

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.97 Mbit/s

95th percentile per-packet one-way delay: 162.026 ms

Loss rate: 0.82%

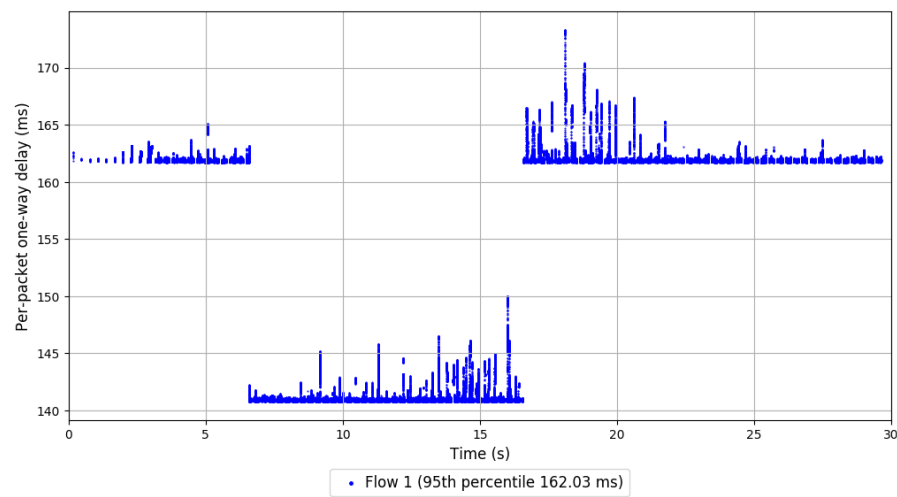
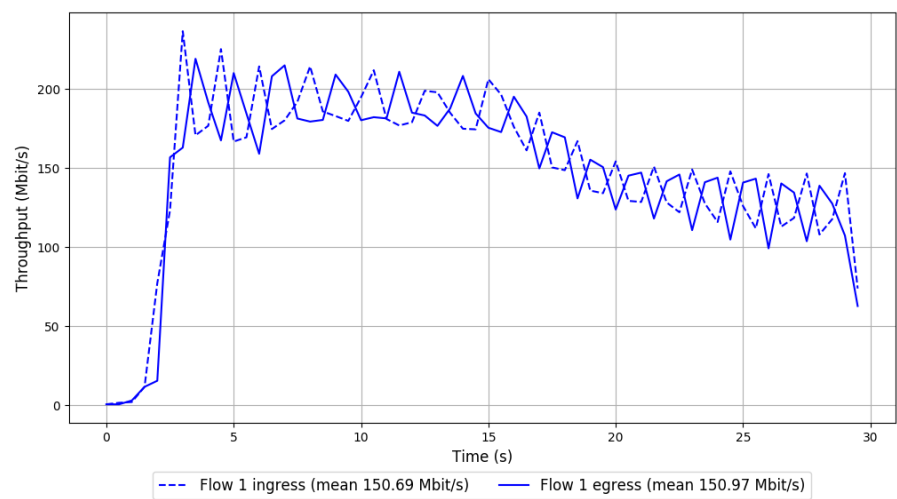
-- Flow 1:

Average throughput: 150.97 Mbit/s

95th percentile per-packet one-way delay: 162.026 ms

Loss rate: 0.82%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-20 10:30:58

End at: 2018-02-20 10:31:28

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.36 Mbit/s

95th percentile per-packet one-way delay: 140.852 ms

Loss rate: 0.97%

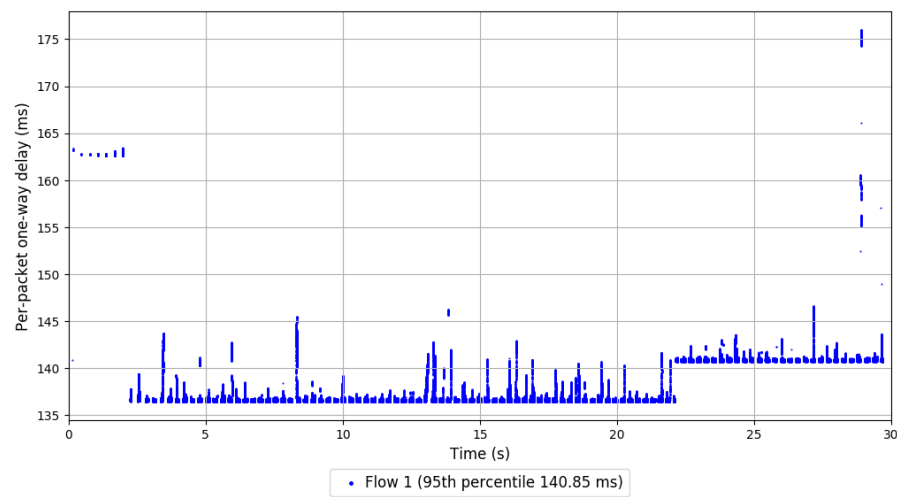
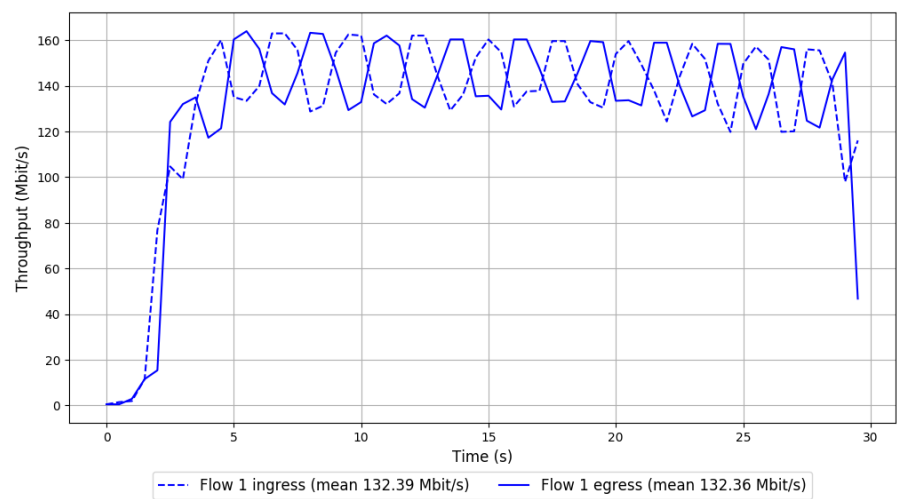
-- Flow 1:

Average throughput: 132.36 Mbit/s

95th percentile per-packet one-way delay: 140.852 ms

Loss rate: 0.97%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-20 10:47:00

End at: 2018-02-20 10:47:30

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.41 Mbit/s

95th percentile per-packet one-way delay: 141.209 ms

Loss rate: 1.04%

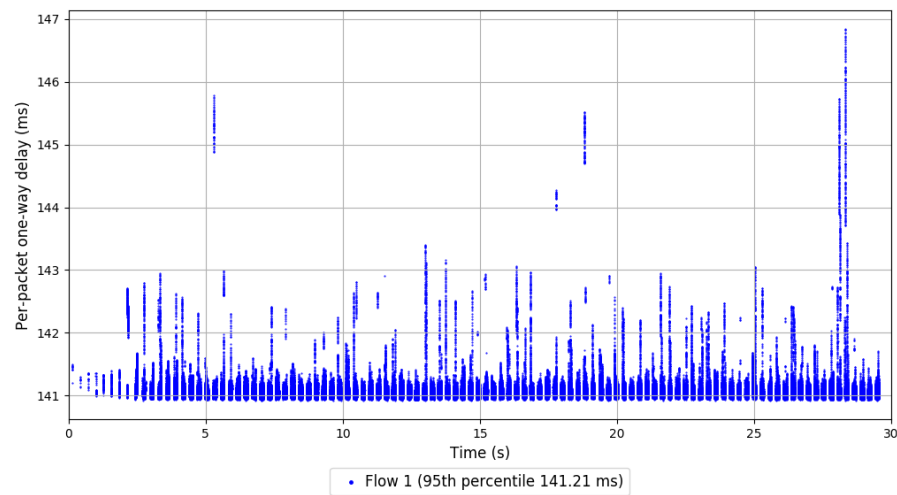
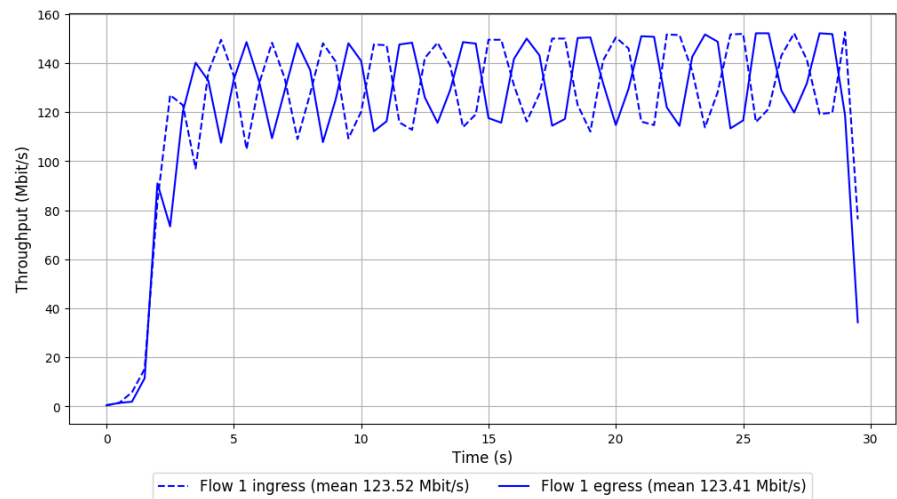
-- Flow 1:

Average throughput: 123.41 Mbit/s

95th percentile per-packet one-way delay: 141.209 ms

Loss rate: 1.04%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-20 11:02:40

End at: 2018-02-20 11:03:10

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.74 Mbit/s

95th percentile per-packet one-way delay: 161.887 ms

Loss rate: 0.82%

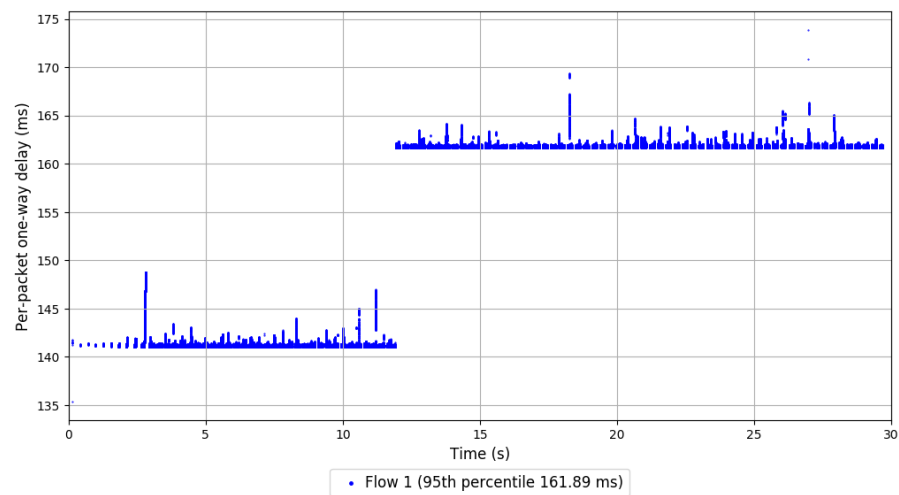
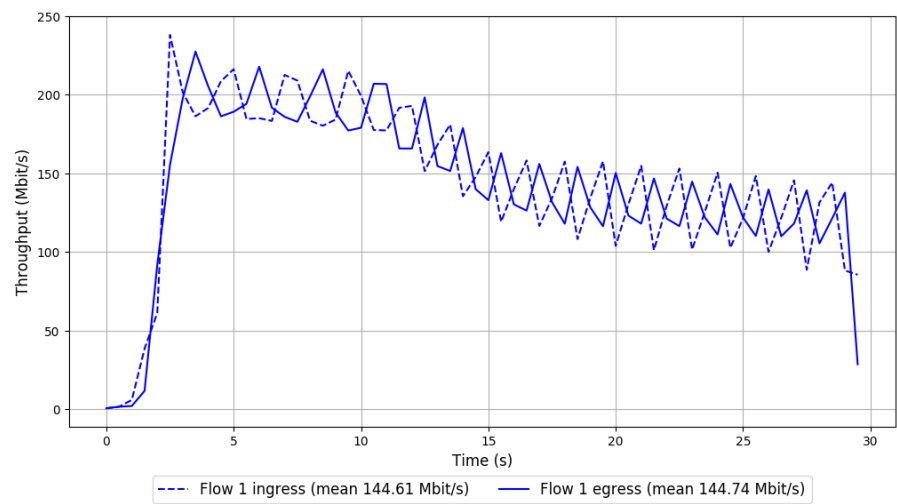
-- Flow 1:

Average throughput: 144.74 Mbit/s

95th percentile per-packet one-way delay: 161.887 ms

Loss rate: 0.82%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-20 11:18:27

End at: 2018-02-20 11:18:57

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.88 Mbit/s

95th percentile per-packet one-way delay: 162.652 ms

Loss rate: 0.94%

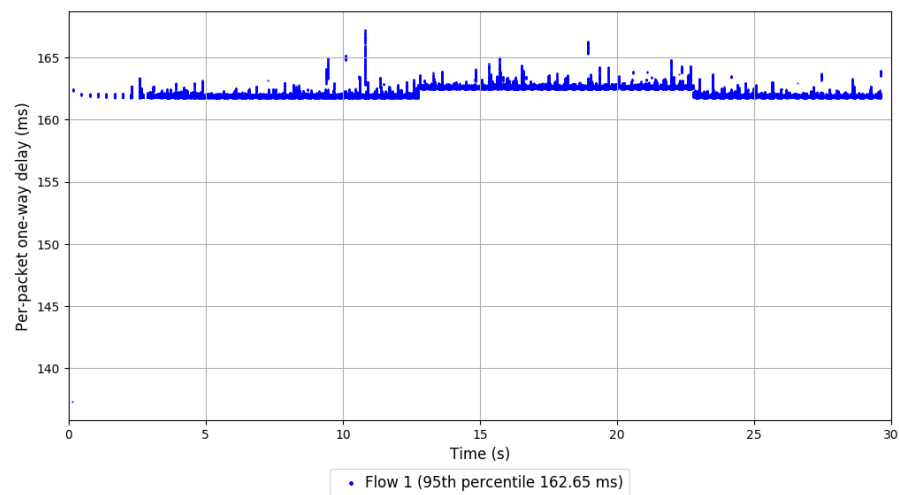
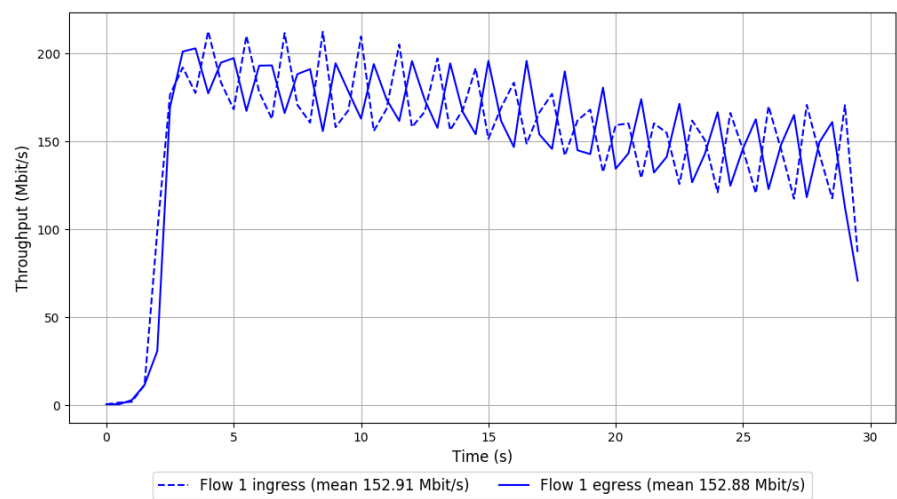
-- Flow 1:

Average throughput: 152.88 Mbit/s

95th percentile per-packet one-way delay: 162.652 ms

Loss rate: 0.94%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-20 11:34:04

End at: 2018-02-20 11:34:34

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.96 Mbit/s

95th percentile per-packet one-way delay: 162.918 ms

Loss rate: 0.95%

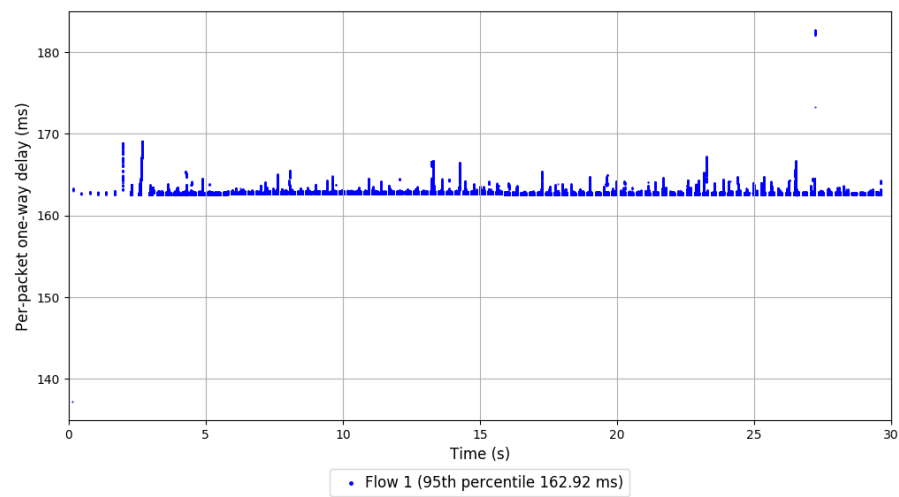
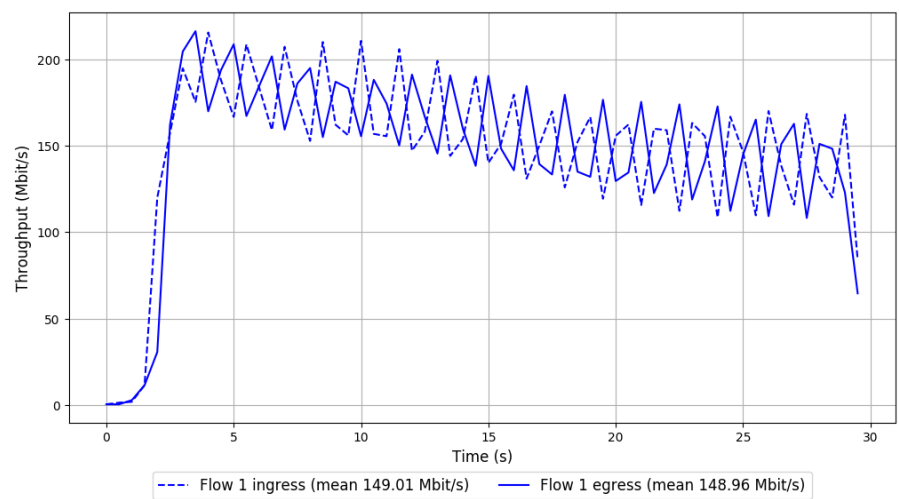
-- Flow 1:

Average throughput: 148.96 Mbit/s

95th percentile per-packet one-way delay: 162.918 ms

Loss rate: 0.95%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-20 09:24:27

End at: 2018-02-20 09:24:57

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.07 Mbit/s

95th percentile per-packet one-way delay: 178.361 ms

Loss rate: 2.26%

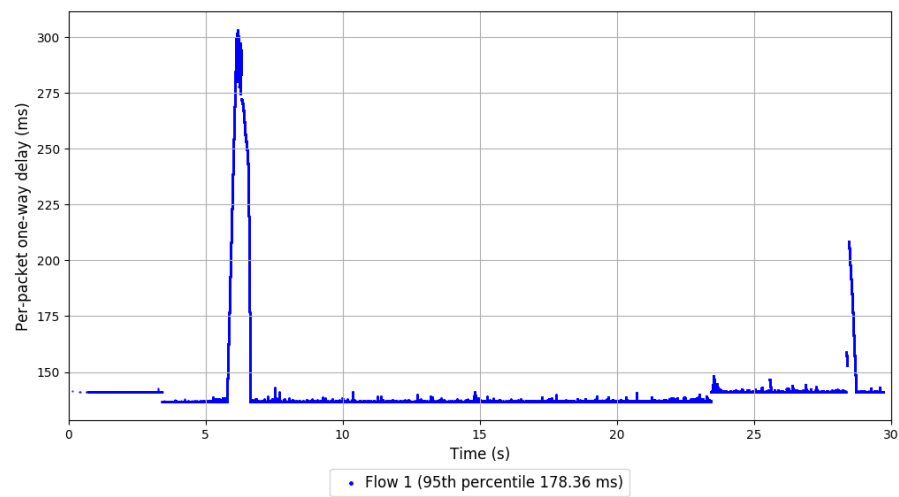
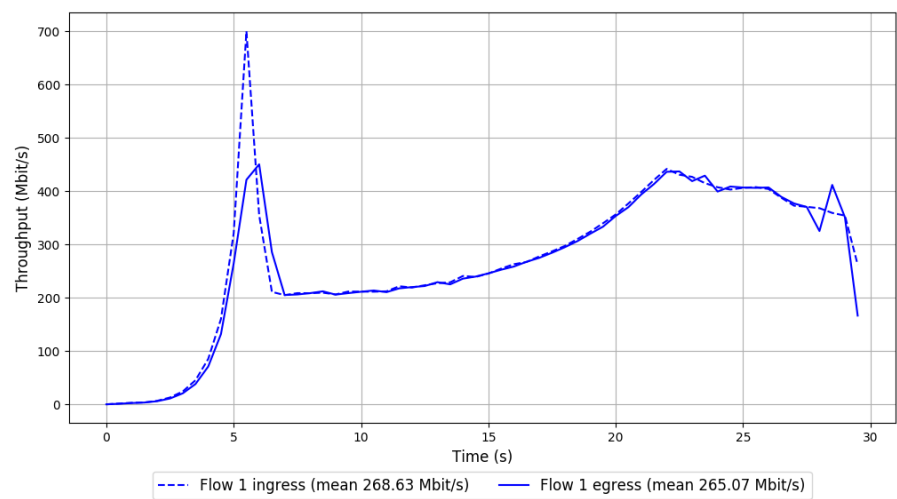
-- Flow 1:

Average throughput: 265.07 Mbit/s

95th percentile per-packet one-way delay: 178.361 ms

Loss rate: 2.26%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-20 09:40:07

End at: 2018-02-20 09:40:37

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.86 Mbit/s

95th percentile per-packet one-way delay: 217.595 ms

Loss rate: 1.79%

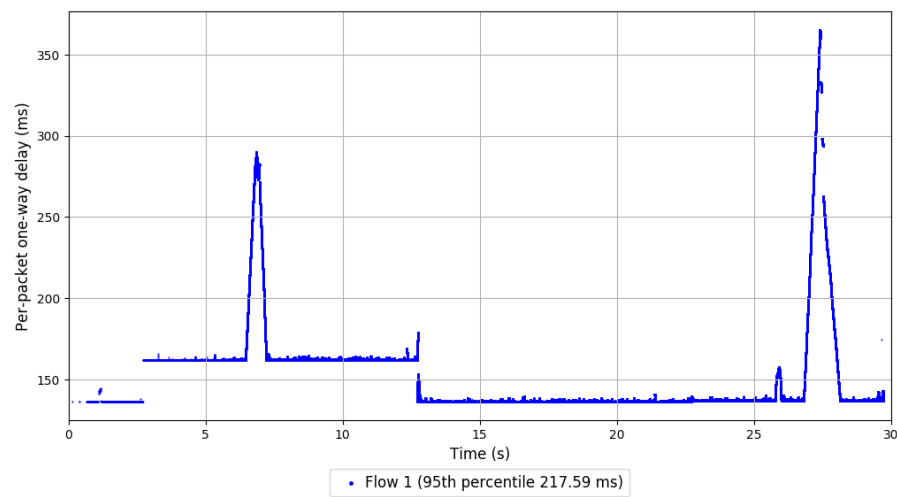
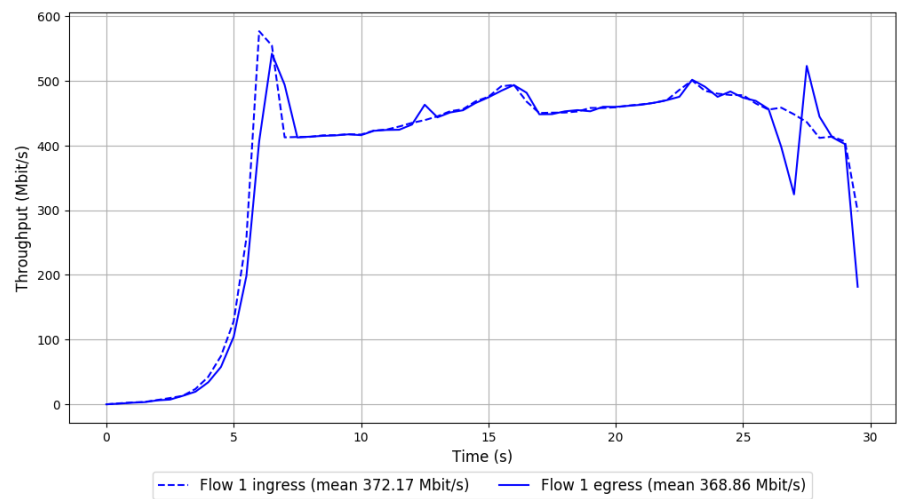
-- Flow 1:

Average throughput: 368.86 Mbit/s

95th percentile per-packet one-way delay: 217.595 ms

Loss rate: 1.79%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-20 09:55:24

End at: 2018-02-20 09:55:54

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.82 Mbit/s

95th percentile per-packet one-way delay: 162.550 ms

Loss rate: 1.91%

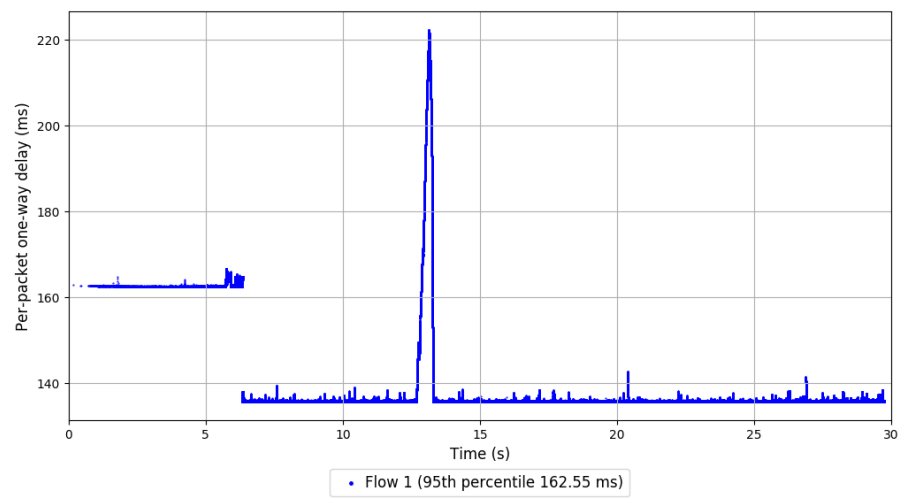
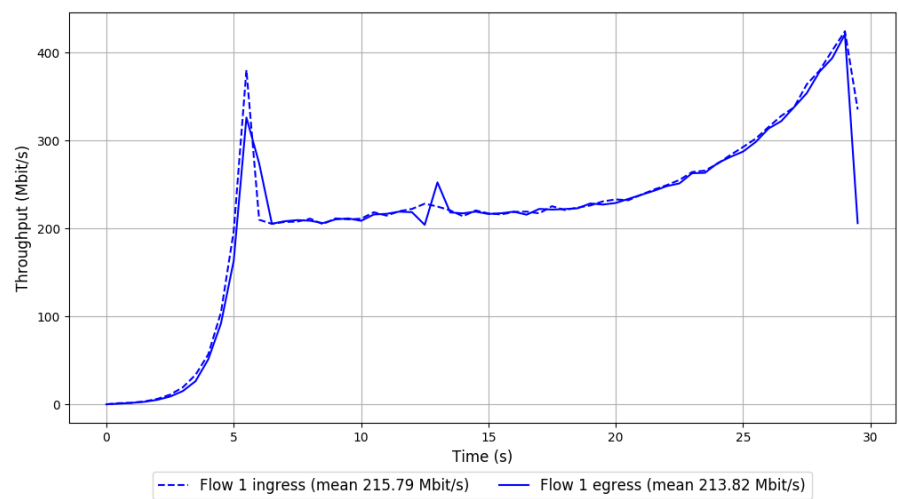
-- Flow 1:

Average throughput: 213.82 Mbit/s

95th percentile per-packet one-way delay: 162.550 ms

Loss rate: 1.91%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-20 10:10:58

End at: 2018-02-20 10:11:28

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.76 Mbit/s

95th percentile per-packet one-way delay: 147.588 ms

Loss rate: 1.37%

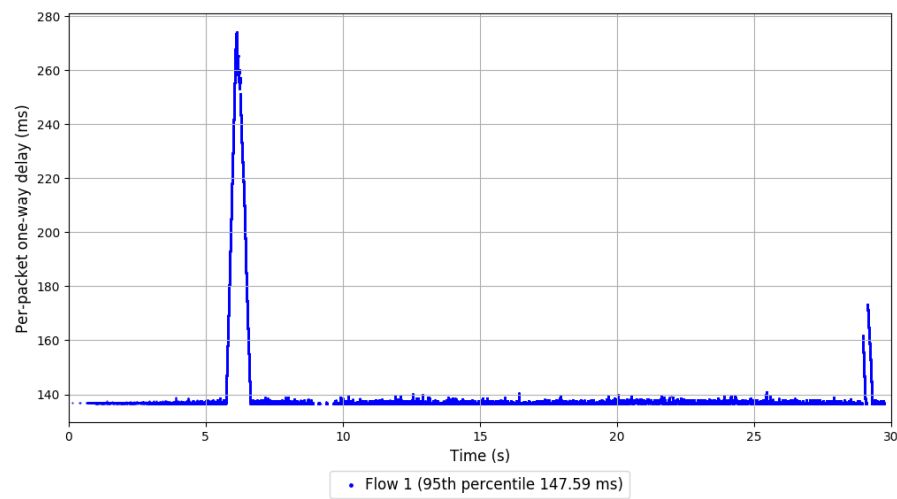
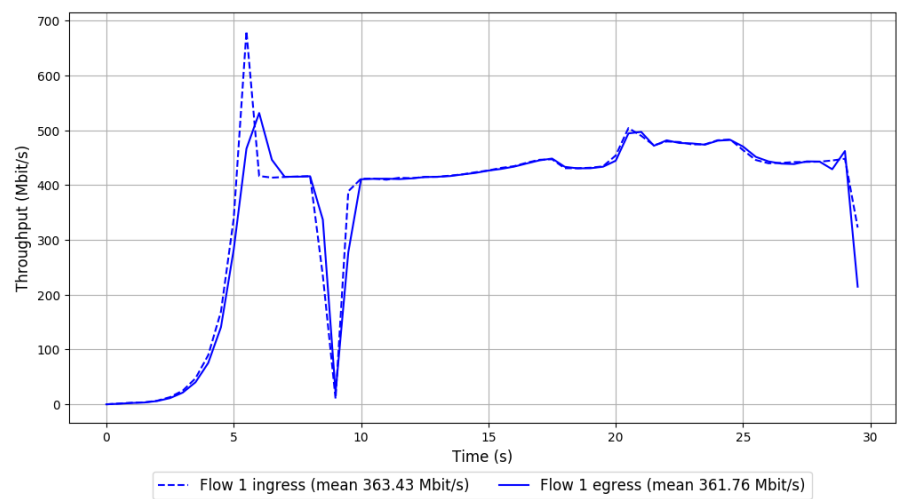
-- Flow 1:

Average throughput: 361.76 Mbit/s

95th percentile per-packet one-way delay: 147.588 ms

Loss rate: 1.37%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-20 10:26:29

End at: 2018-02-20 10:26:59

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.63 Mbit/s

95th percentile per-packet one-way delay: 139.325 ms

Loss rate: 1.36%

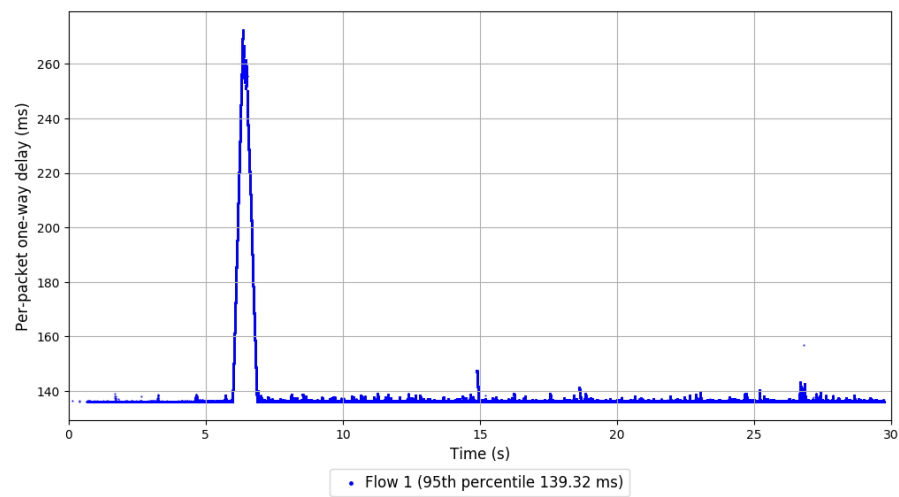
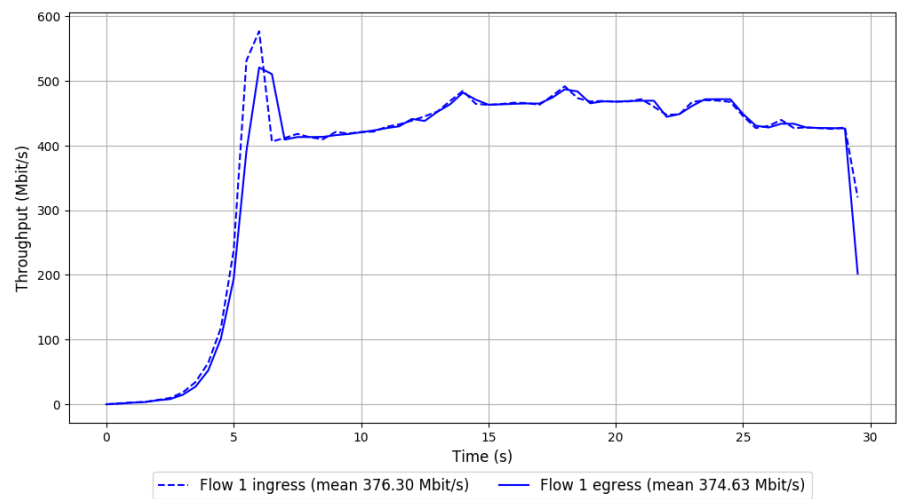
-- Flow 1:

Average throughput: 374.63 Mbit/s

95th percentile per-packet one-way delay: 139.325 ms

Loss rate: 1.36%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-20 10:42:32

End at: 2018-02-20 10:43:02

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.99 Mbit/s

95th percentile per-packet one-way delay: 140.842 ms

Loss rate: 1.07%

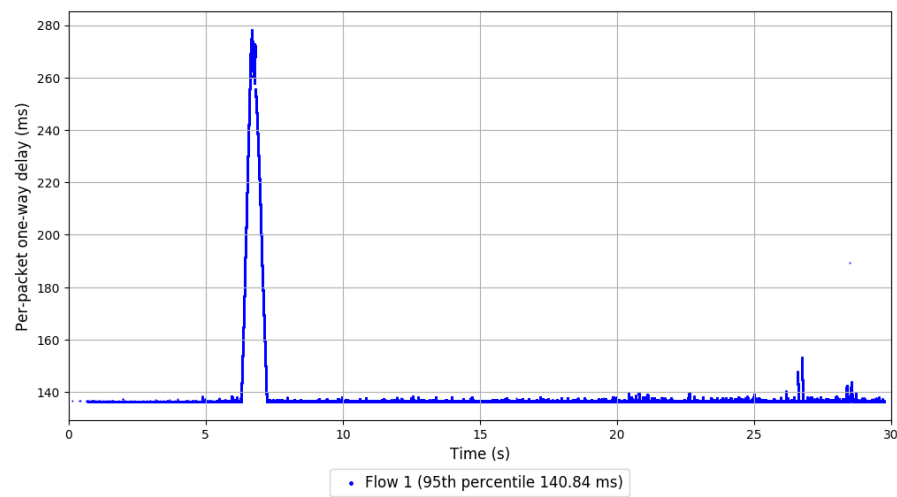
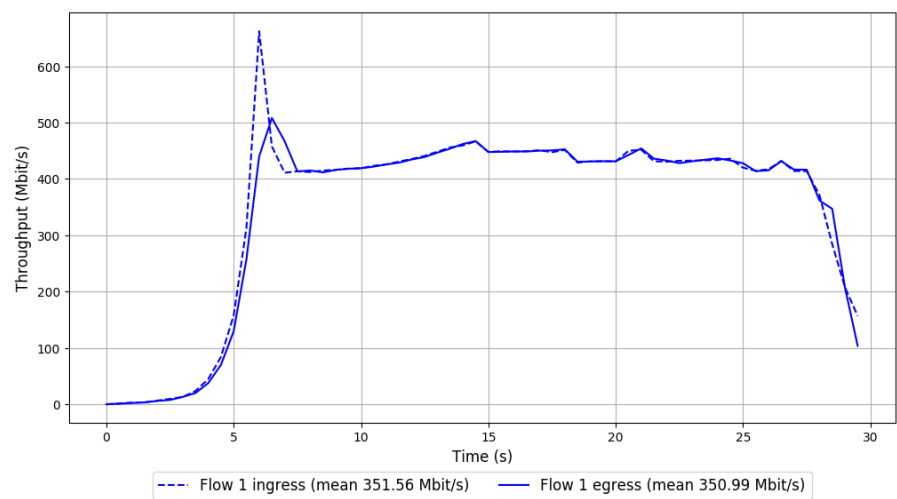
-- Flow 1:

Average throughput: 350.99 Mbit/s

95th percentile per-packet one-way delay: 140.842 ms

Loss rate: 1.07%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-20 10:58:21

End at: 2018-02-20 10:58:51

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.21 Mbit/s

95th percentile per-packet one-way delay: 143.448 ms

Loss rate: 1.75%

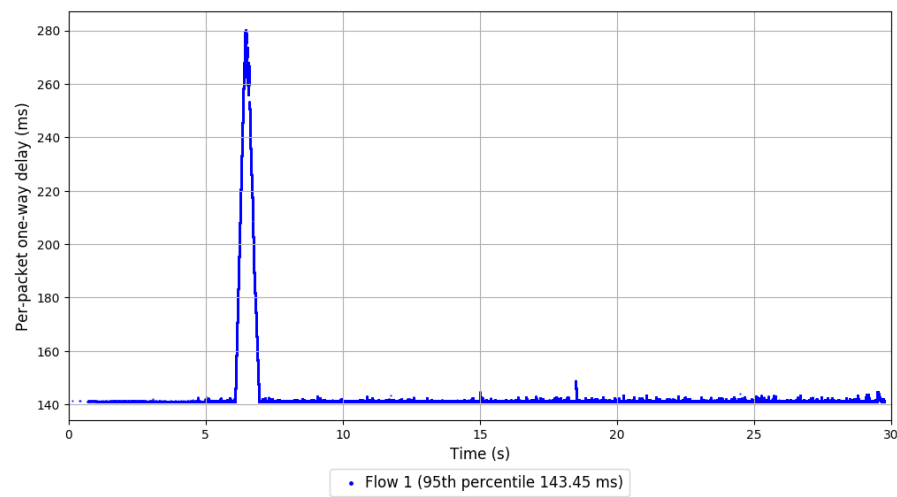
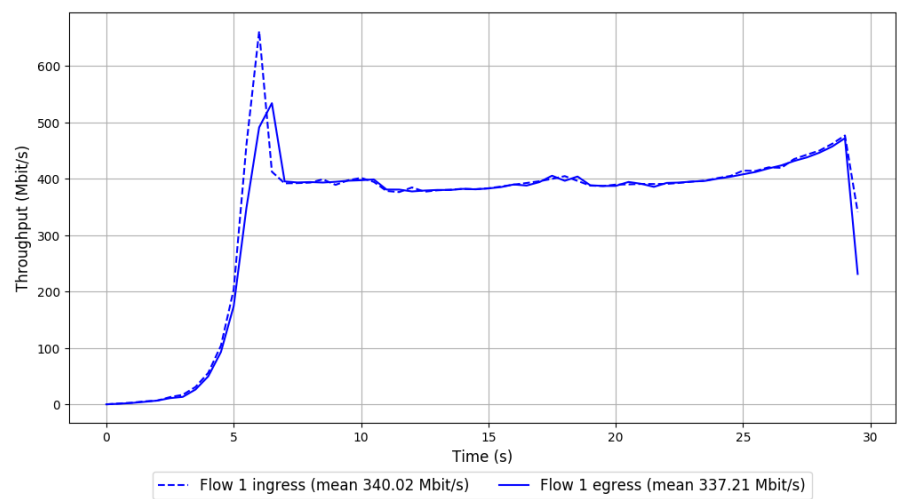
-- Flow 1:

Average throughput: 337.21 Mbit/s

95th percentile per-packet one-way delay: 143.448 ms

Loss rate: 1.75%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-20 11:14:11

End at: 2018-02-20 11:14:41

Below is generated by plot.py at 2018-02-20 15:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.10 Mbit/s

95th percentile per-packet one-way delay: 151.039 ms

Loss rate: 2.12%

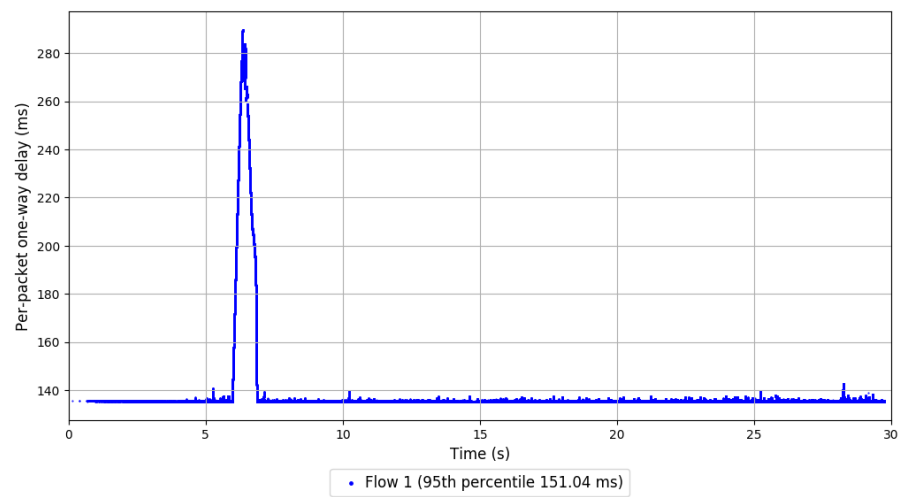
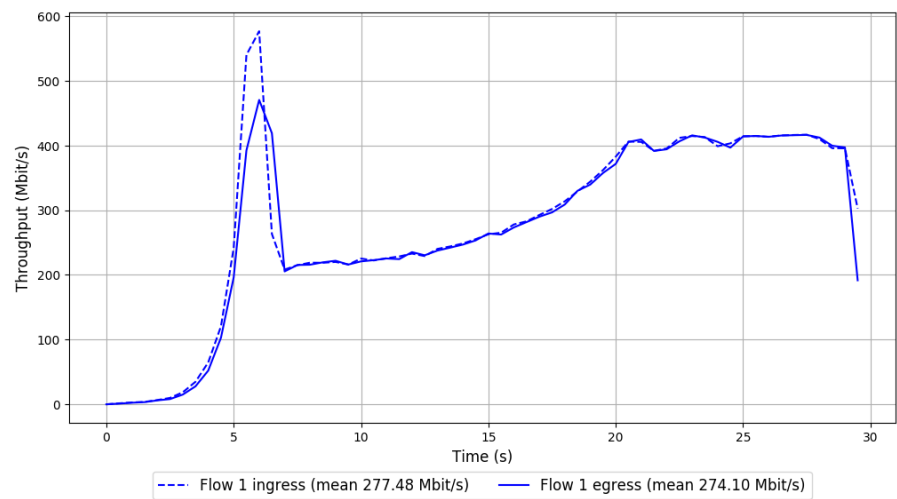
-- Flow 1:

Average throughput: 274.10 Mbit/s

95th percentile per-packet one-way delay: 151.039 ms

Loss rate: 2.12%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-20 11:29:41

End at: 2018-02-20 11:30:11

Below is generated by plot.py at 2018-02-20 15:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.86 Mbit/s

95th percentile per-packet one-way delay: 164.063 ms

Loss rate: 1.69%

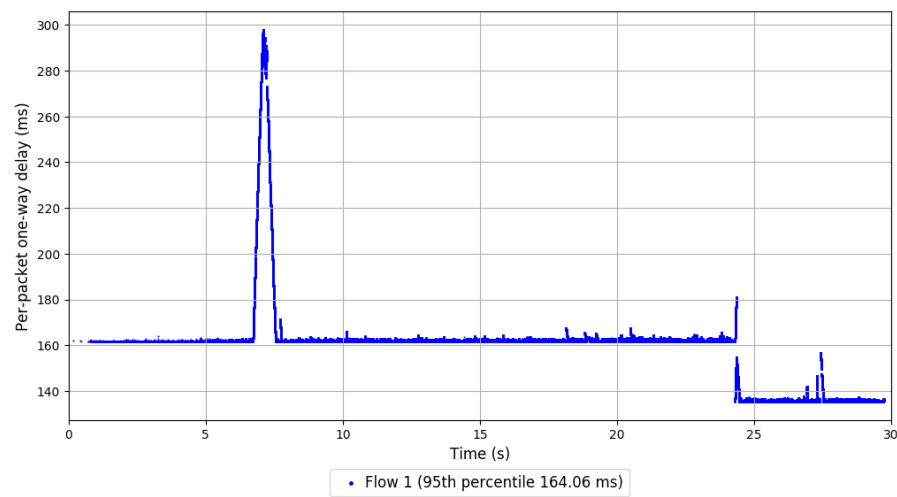
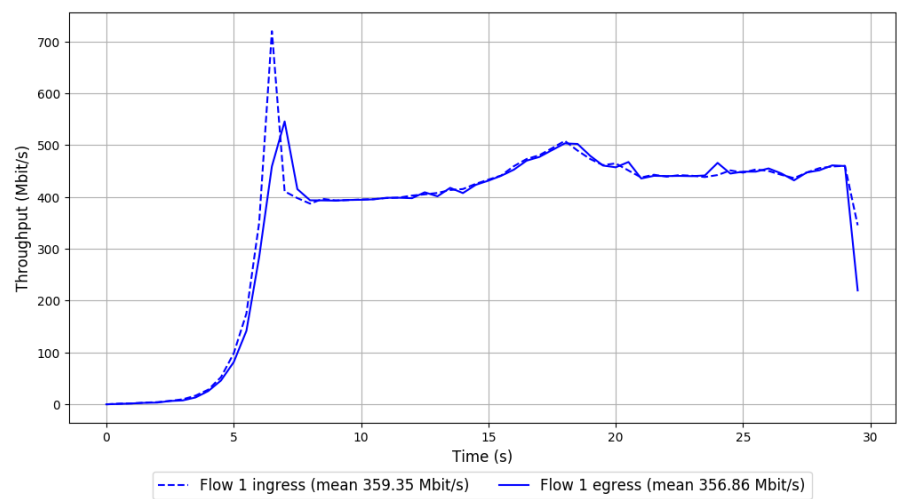
-- Flow 1:

Average throughput: 356.86 Mbit/s

95th percentile per-packet one-way delay: 164.063 ms

Loss rate: 1.69%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-20 11:45:22

End at: 2018-02-20 11:45:52

Below is generated by plot.py at 2018-02-20 15:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.18 Mbit/s

95th percentile per-packet one-way delay: 255.566 ms

Loss rate: 1.94%

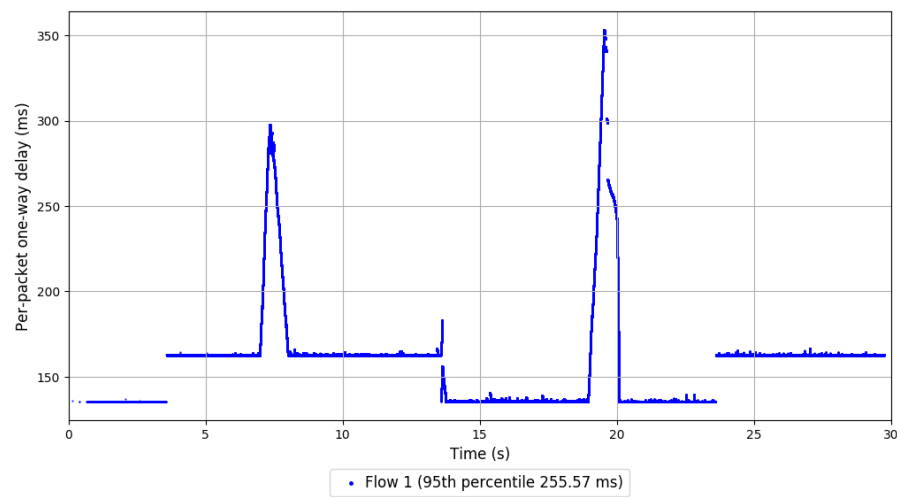
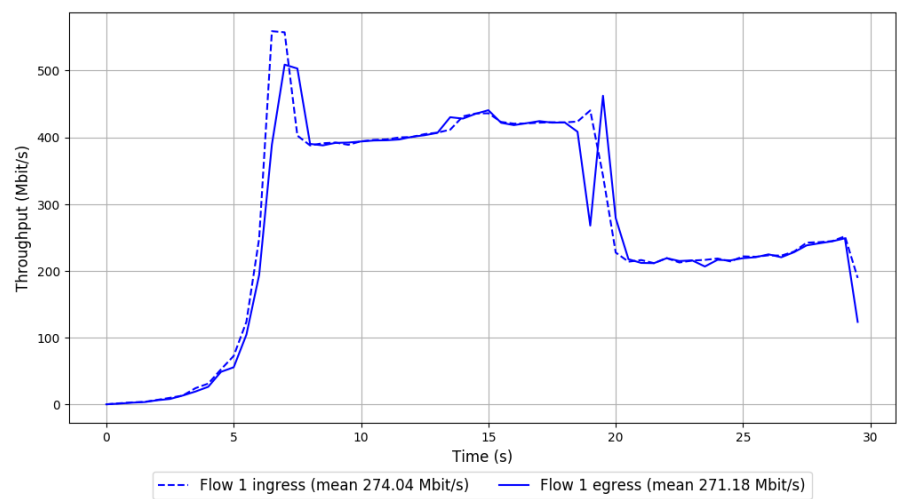
-- Flow 1:

Average throughput: 271.18 Mbit/s

95th percentile per-packet one-way delay: 255.566 ms

Loss rate: 1.94%

Run 10: Report of Vivace-latency — Data Link

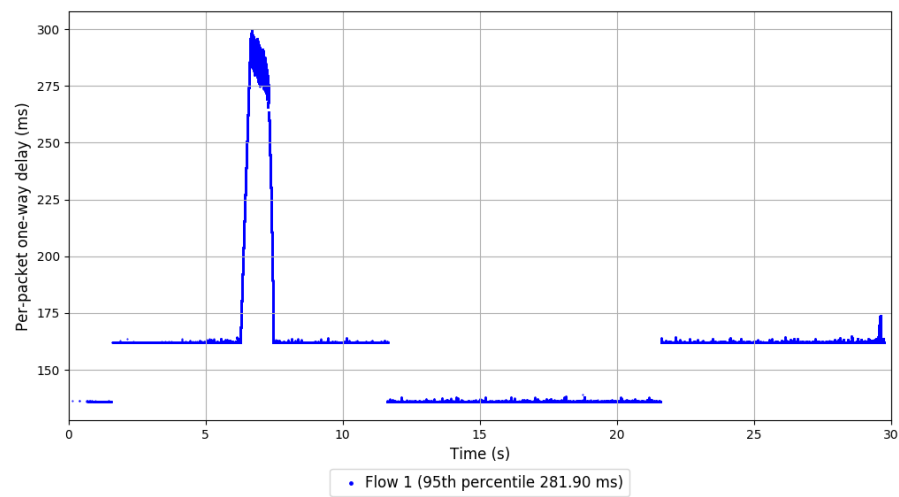
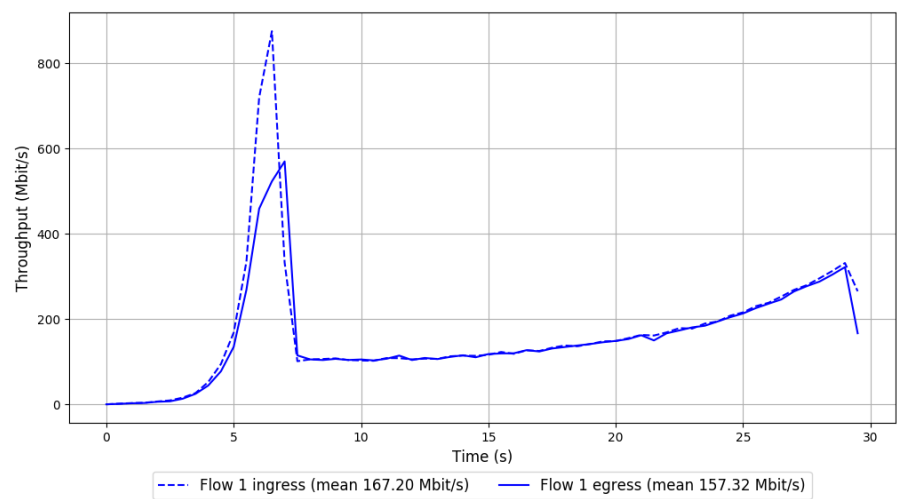


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-20 09:22:44
End at: 2018-02-20 09:23:14

# Below is generated by plot.py at 2018-02-20 15:32:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.32 Mbit/s
95th percentile per-packet one-way delay: 281.901 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 157.32 Mbit/s
95th percentile per-packet one-way delay: 281.901 ms
Loss rate: 6.78%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-20 09:38:22

End at: 2018-02-20 09:38:52

Below is generated by plot.py at 2018-02-20 15:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.29 Mbit/s

95th percentile per-packet one-way delay: 248.215 ms

Loss rate: 3.94%

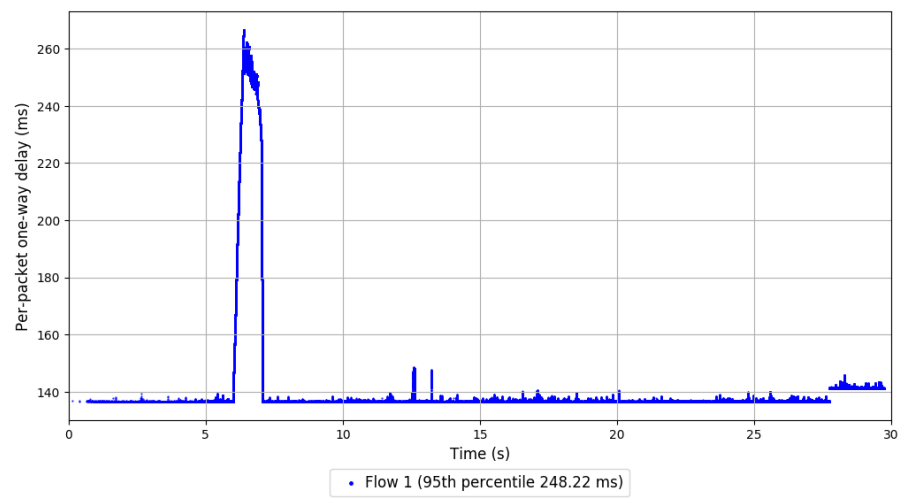
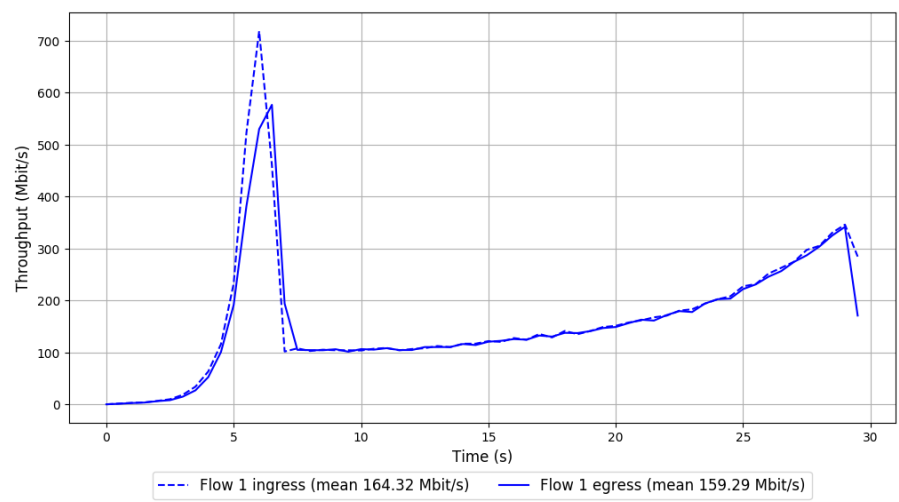
-- Flow 1:

Average throughput: 159.29 Mbit/s

95th percentile per-packet one-way delay: 248.215 ms

Loss rate: 3.94%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-20 09:53:43

End at: 2018-02-20 09:54:13

Below is generated by plot.py at 2018-02-20 15:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.44 Mbit/s

95th percentile per-packet one-way delay: 274.739 ms

Loss rate: 4.60%

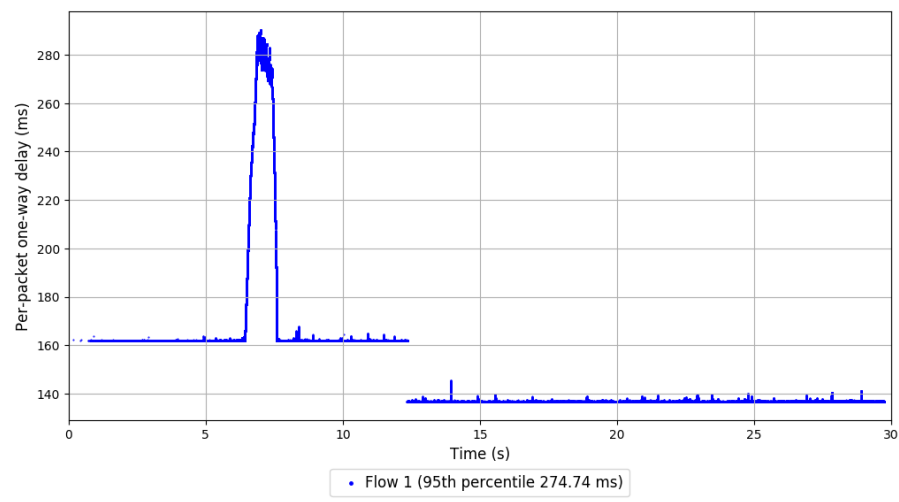
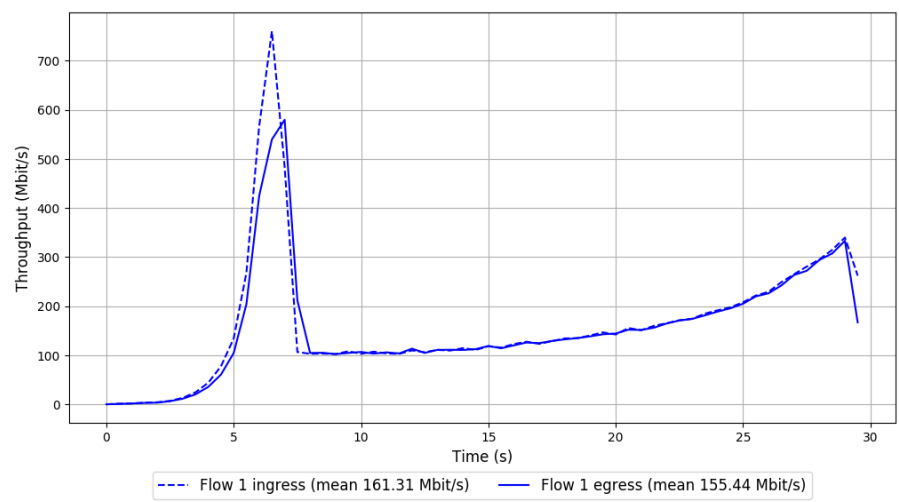
-- Flow 1:

Average throughput: 155.44 Mbit/s

95th percentile per-packet one-way delay: 274.739 ms

Loss rate: 4.60%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-20 10:09:04

End at: 2018-02-20 10:09:34

Below is generated by plot.py at 2018-02-20 15:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.04 Mbit/s

95th percentile per-packet one-way delay: 274.892 ms

Loss rate: 11.57%

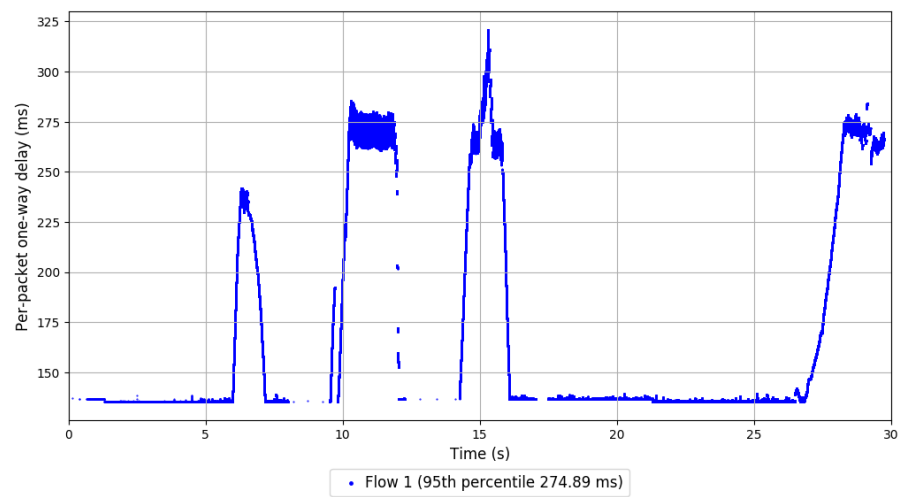
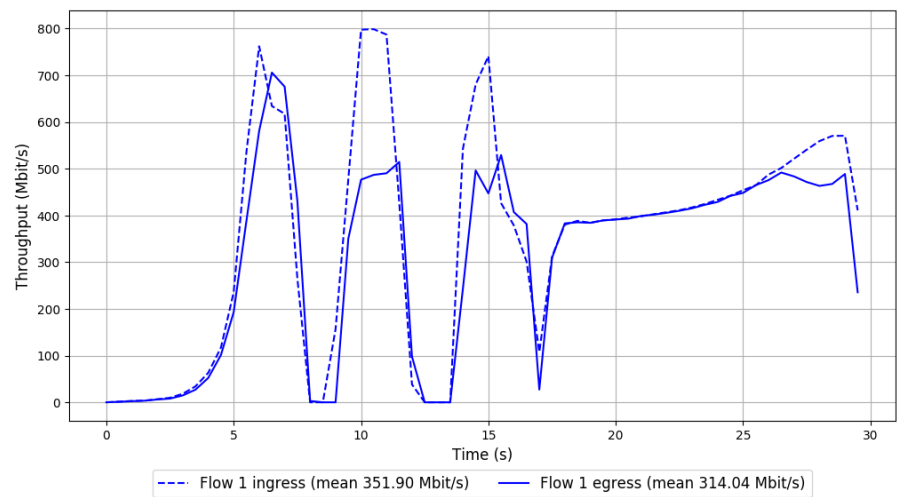
-- Flow 1:

Average throughput: 314.04 Mbit/s

95th percentile per-packet one-way delay: 274.892 ms

Loss rate: 11.57%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-20 10:24:42

End at: 2018-02-20 10:25:12

Below is generated by plot.py at 2018-02-20 15:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.37 Mbit/s

95th percentile per-packet one-way delay: 279.065 ms

Loss rate: 8.20%

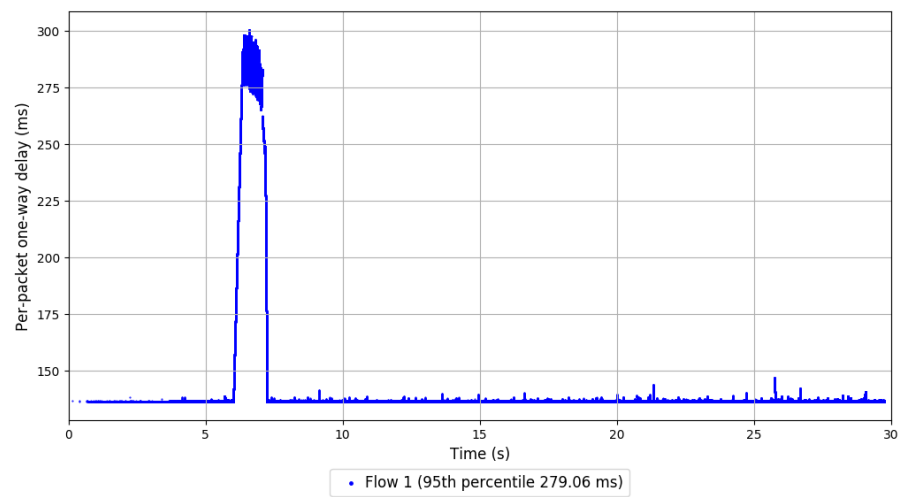
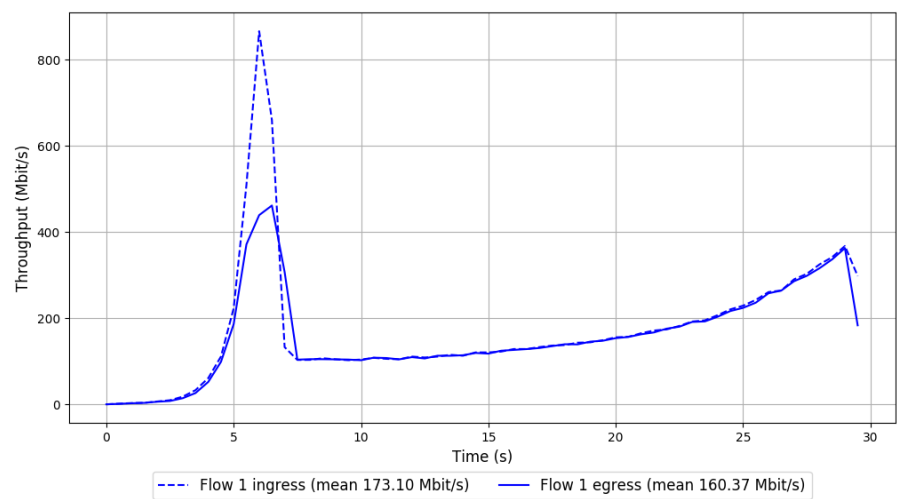
-- Flow 1:

Average throughput: 160.37 Mbit/s

95th percentile per-packet one-way delay: 279.065 ms

Loss rate: 8.20%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-20 10:40:41

End at: 2018-02-20 10:41:11

Below is generated by plot.py at 2018-02-20 15:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.56 Mbit/s

95th percentile per-packet one-way delay: 263.219 ms

Loss rate: 4.13%

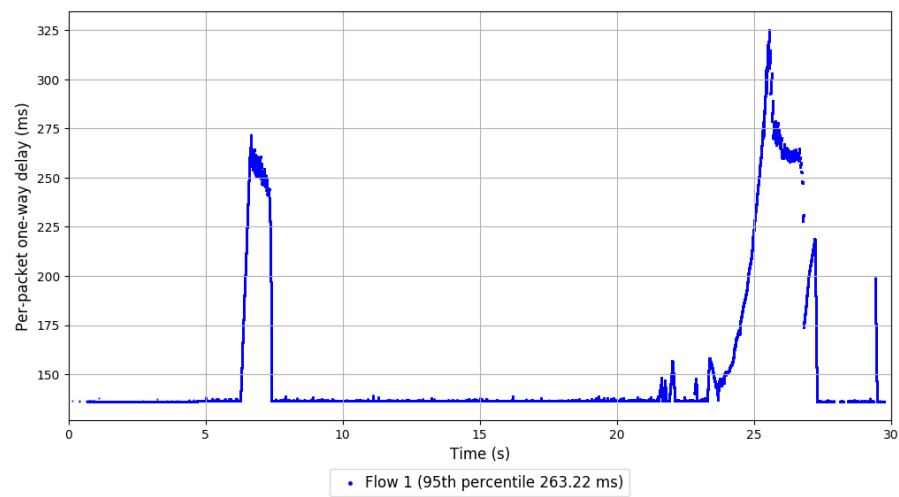
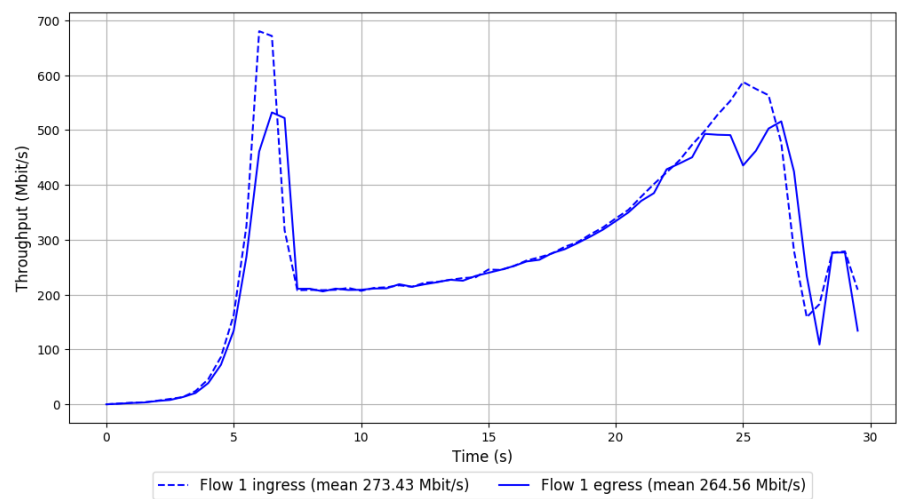
-- Flow 1:

Average throughput: 264.56 Mbit/s

95th percentile per-packet one-way delay: 263.219 ms

Loss rate: 4.13%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-20 10:56:28

End at: 2018-02-20 10:56:58

Below is generated by plot.py at 2018-02-20 15:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.89 Mbit/s

95th percentile per-packet one-way delay: 262.402 ms

Loss rate: 7.28%

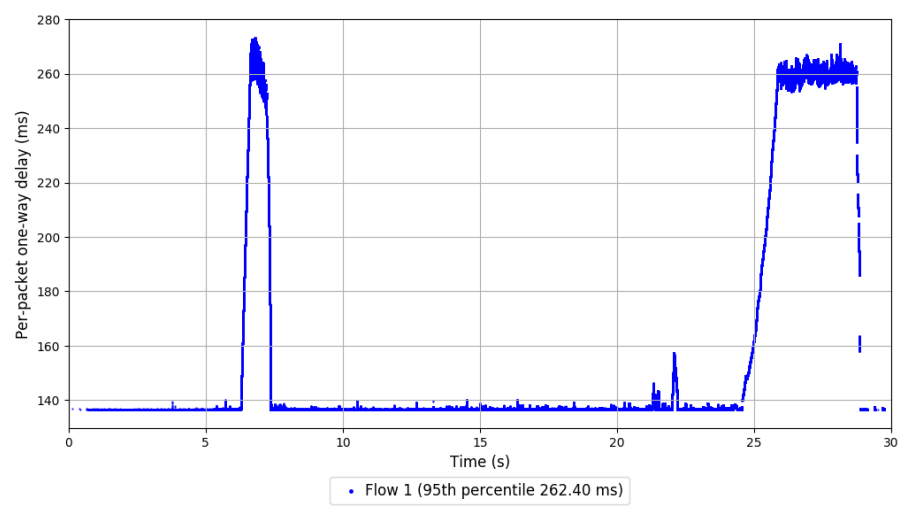
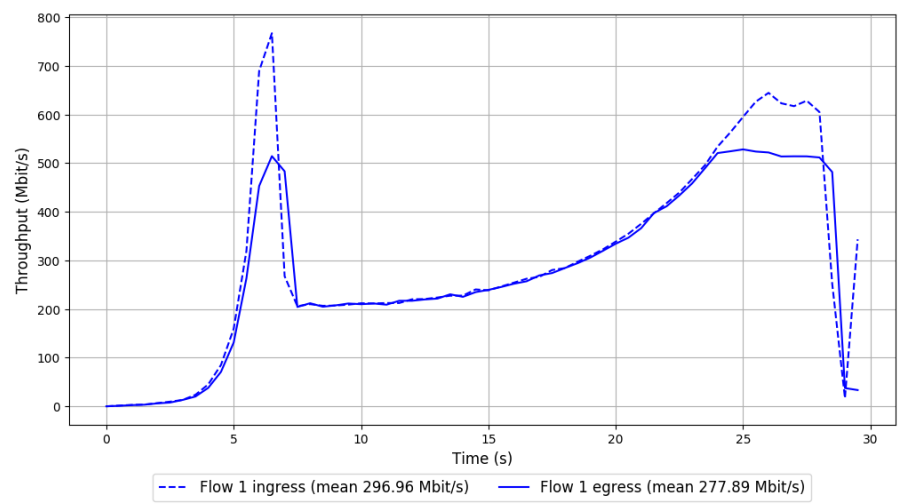
-- Flow 1:

Average throughput: 277.89 Mbit/s

95th percentile per-packet one-way delay: 262.402 ms

Loss rate: 7.28%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-20 11:12:30

End at: 2018-02-20 11:13:00

Below is generated by plot.py at 2018-02-20 15:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.72 Mbit/s

95th percentile per-packet one-way delay: 282.728 ms

Loss rate: 7.47%

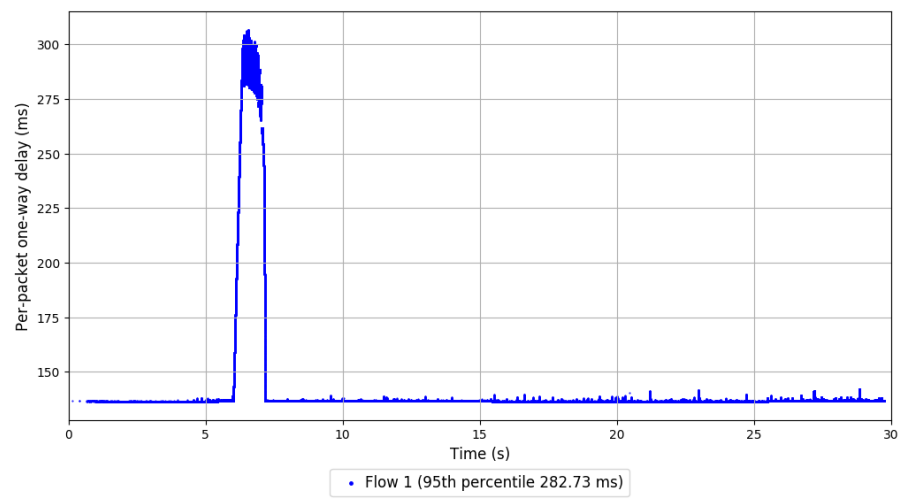
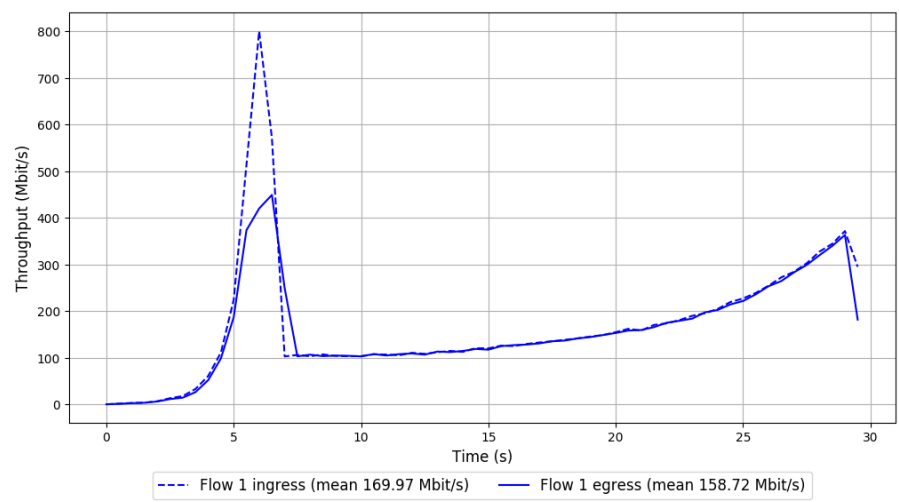
-- Flow 1:

Average throughput: 158.72 Mbit/s

95th percentile per-packet one-way delay: 282.728 ms

Loss rate: 7.47%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-20 11:28:01

End at: 2018-02-20 11:28:31

Below is generated by plot.py at 2018-02-20 15:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.70 Mbit/s

95th percentile per-packet one-way delay: 254.061 ms

Loss rate: 4.13%

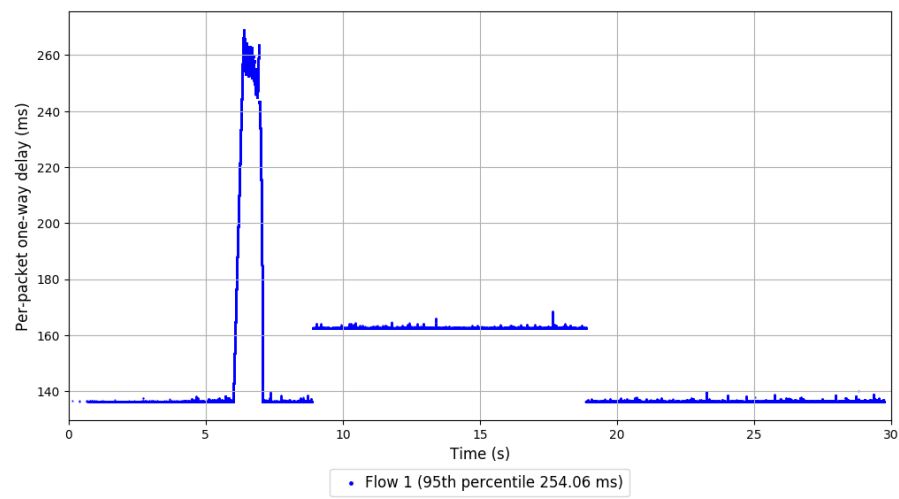
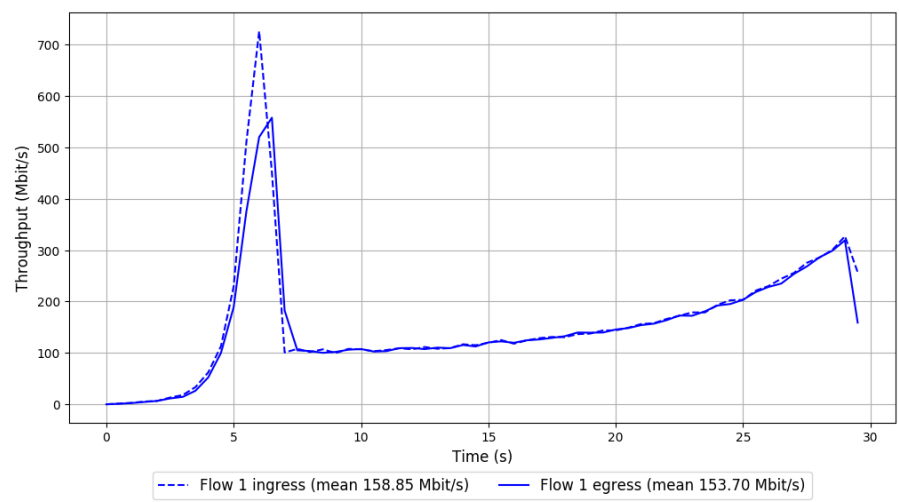
-- Flow 1:

Average throughput: 153.70 Mbit/s

95th percentile per-packet one-way delay: 254.061 ms

Loss rate: 4.13%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-20 11:43:28

End at: 2018-02-20 11:43:58

Below is generated by plot.py at 2018-02-20 15:38:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.74 Mbit/s

95th percentile per-packet one-way delay: 295.465 ms

Loss rate: 17.58%

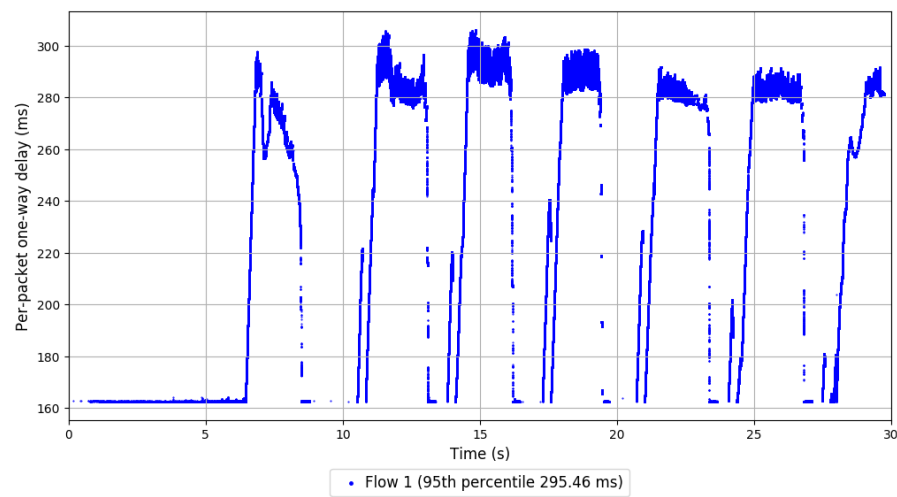
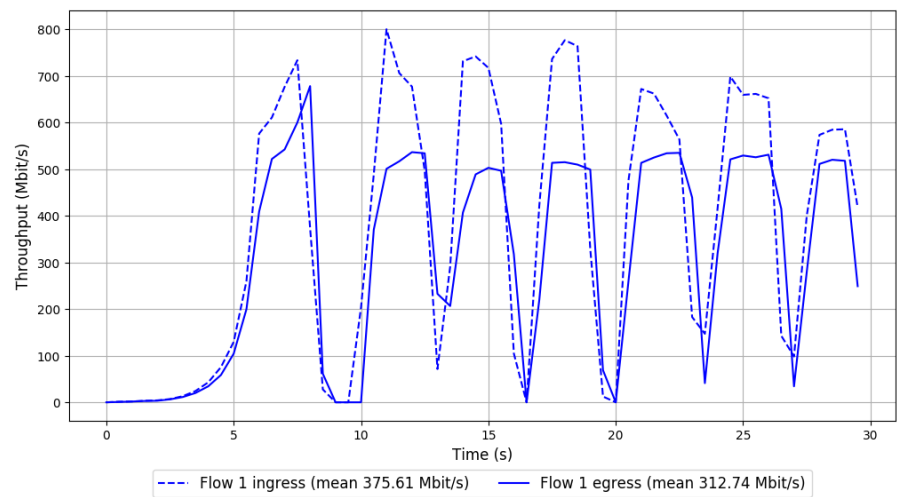
-- Flow 1:

Average throughput: 312.74 Mbit/s

95th percentile per-packet one-way delay: 295.465 ms

Loss rate: 17.58%

Run 10: Report of Vivace-loss — Data Link

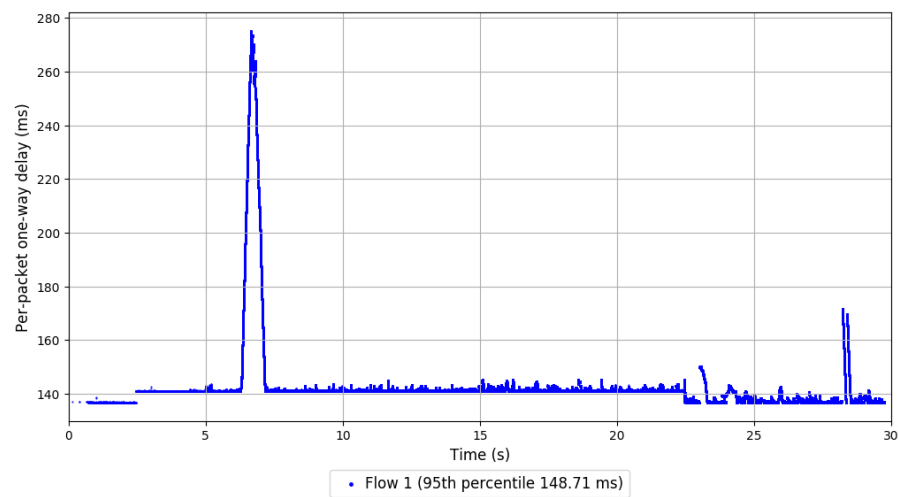
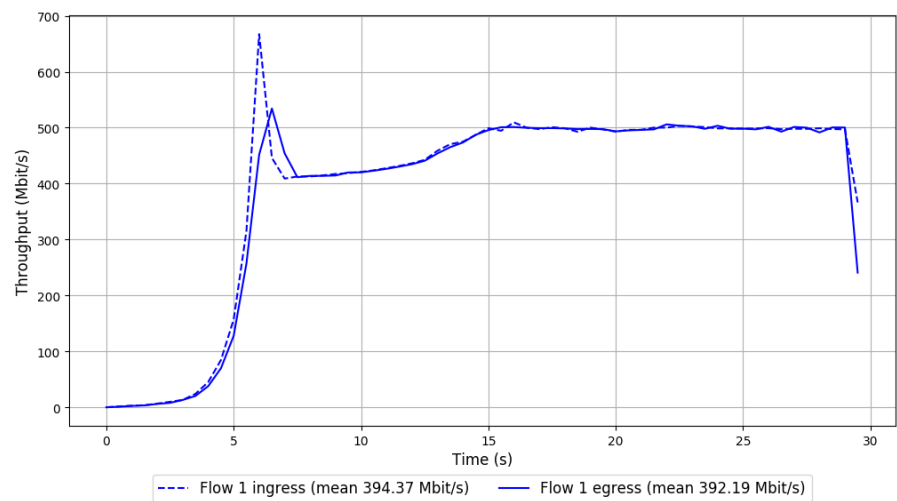


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-20 09:17:03
End at: 2018-02-20 09:17:33

# Below is generated by plot.py at 2018-02-20 15:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 392.19 Mbit/s
95th percentile per-packet one-way delay: 148.711 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 392.19 Mbit/s
95th percentile per-packet one-way delay: 148.711 ms
Loss rate: 1.46%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-20 09:32:55

End at: 2018-02-20 09:33:25

Below is generated by plot.py at 2018-02-20 15:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.29 Mbit/s

95th percentile per-packet one-way delay: 143.475 ms

Loss rate: 1.24%

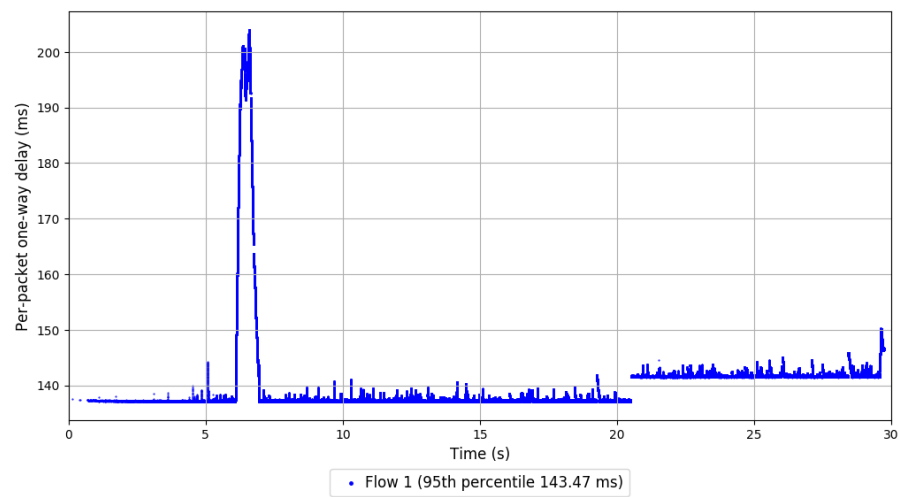
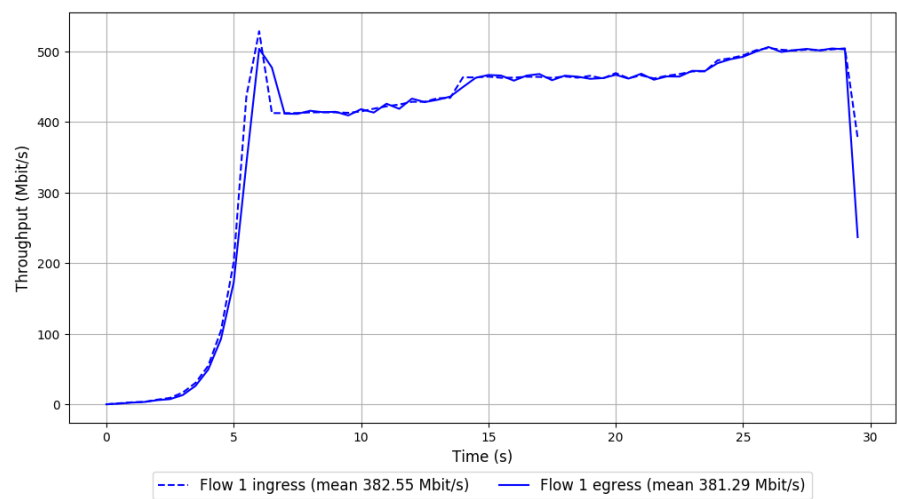
-- Flow 1:

Average throughput: 381.29 Mbit/s

95th percentile per-packet one-way delay: 143.475 ms

Loss rate: 1.24%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-20 09:48:16

End at: 2018-02-20 09:48:46

Below is generated by plot.py at 2018-02-20 15:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.48 Mbit/s

95th percentile per-packet one-way delay: 148.655 ms

Loss rate: 1.84%

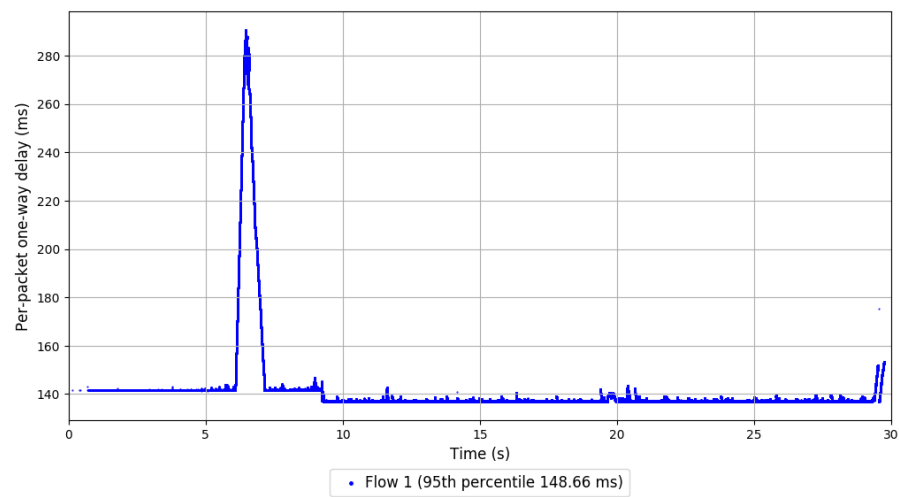
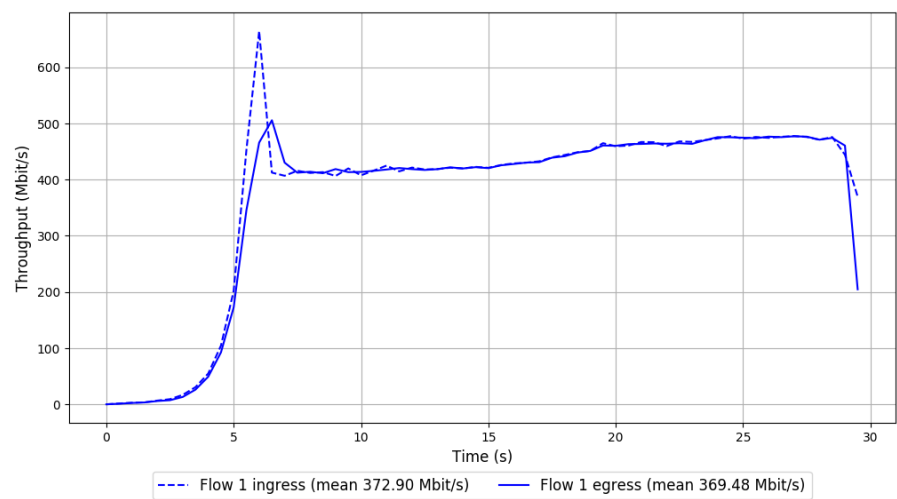
-- Flow 1:

Average throughput: 369.48 Mbit/s

95th percentile per-packet one-way delay: 148.655 ms

Loss rate: 1.84%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-20 10:03:48

End at: 2018-02-20 10:04:18

Below is generated by plot.py at 2018-02-20 15:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.43 Mbit/s

95th percentile per-packet one-way delay: 249.686 ms

Loss rate: 2.37%

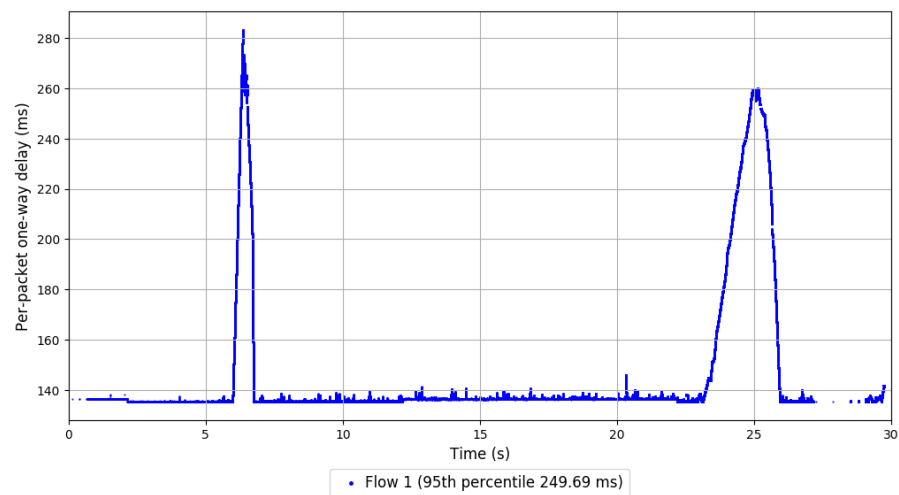
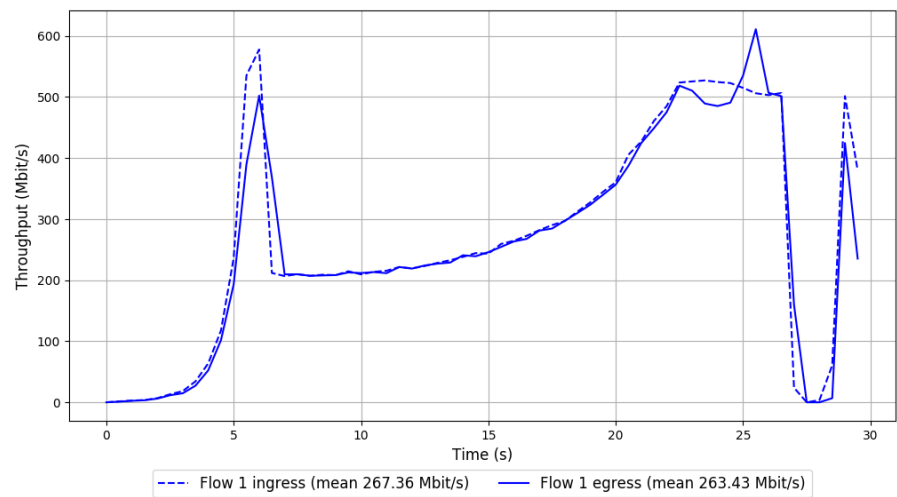
-- Flow 1:

Average throughput: 263.43 Mbit/s

95th percentile per-packet one-way delay: 249.686 ms

Loss rate: 2.37%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-20 10:19:13

End at: 2018-02-20 10:19:43

Below is generated by plot.py at 2018-02-20 15:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.13 Mbit/s

95th percentile per-packet one-way delay: 170.408 ms

Loss rate: 1.74%

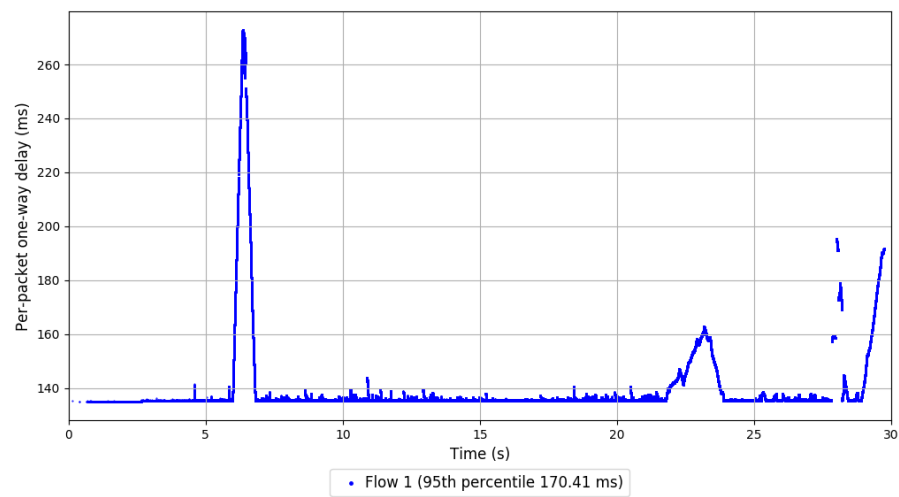
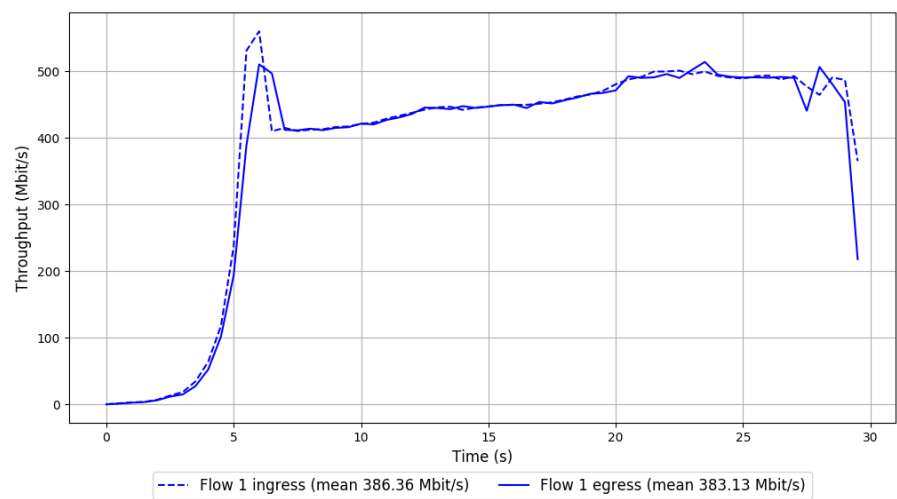
-- Flow 1:

Average throughput: 383.13 Mbit/s

95th percentile per-packet one-way delay: 170.408 ms

Loss rate: 1.74%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-20 10:35:12

End at: 2018-02-20 10:35:42

Below is generated by plot.py at 2018-02-20 15:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 173.325 ms

Loss rate: 1.80%

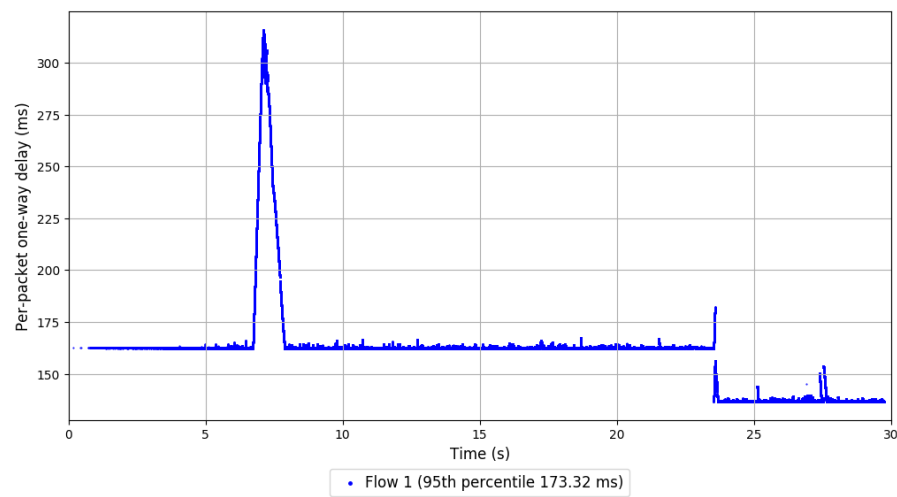
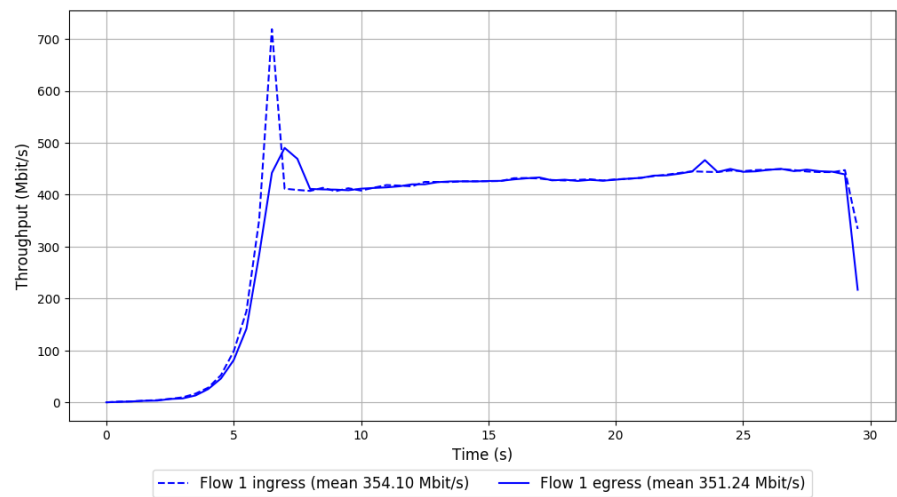
-- Flow 1:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 173.325 ms

Loss rate: 1.80%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-20 10:51:11

End at: 2018-02-20 10:51:41

Below is generated by plot.py at 2018-02-20 15:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.06 Mbit/s

95th percentile per-packet one-way delay: 162.893 ms

Loss rate: 1.82%

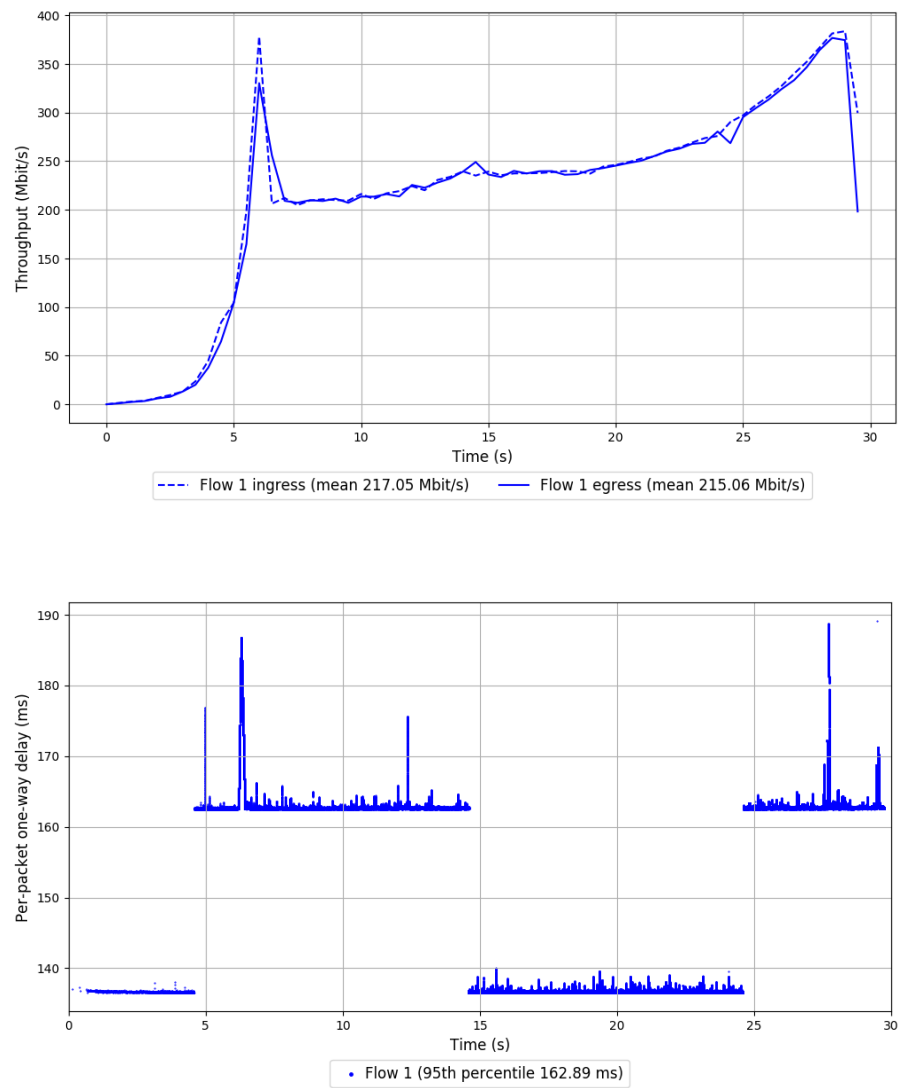
-- Flow 1:

Average throughput: 215.06 Mbit/s

95th percentile per-packet one-way delay: 162.893 ms

Loss rate: 1.82%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-20 11:06:52

End at: 2018-02-20 11:07:22

Below is generated by plot.py at 2018-02-20 15:42:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.37 Mbit/s

95th percentile per-packet one-way delay: 139.143 ms

Loss rate: 1.36%

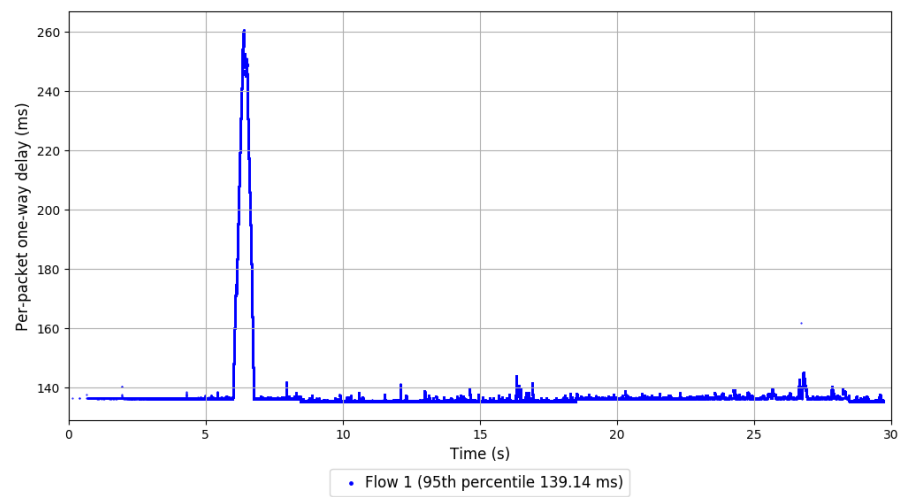
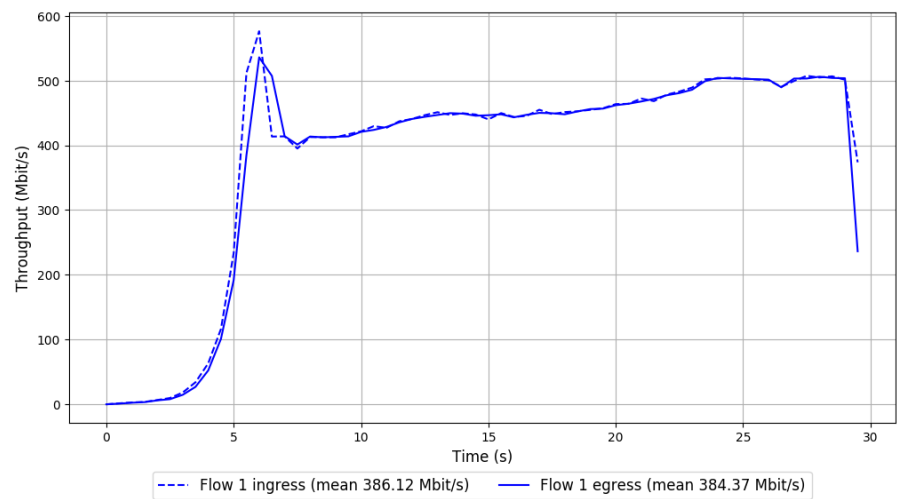
-- Flow 1:

Average throughput: 384.37 Mbit/s

95th percentile per-packet one-way delay: 139.143 ms

Loss rate: 1.36%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-20 11:22:37

End at: 2018-02-20 11:23:07

Below is generated by plot.py at 2018-02-20 15:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.31 Mbit/s

95th percentile per-packet one-way delay: 186.364 ms

Loss rate: 1.57%

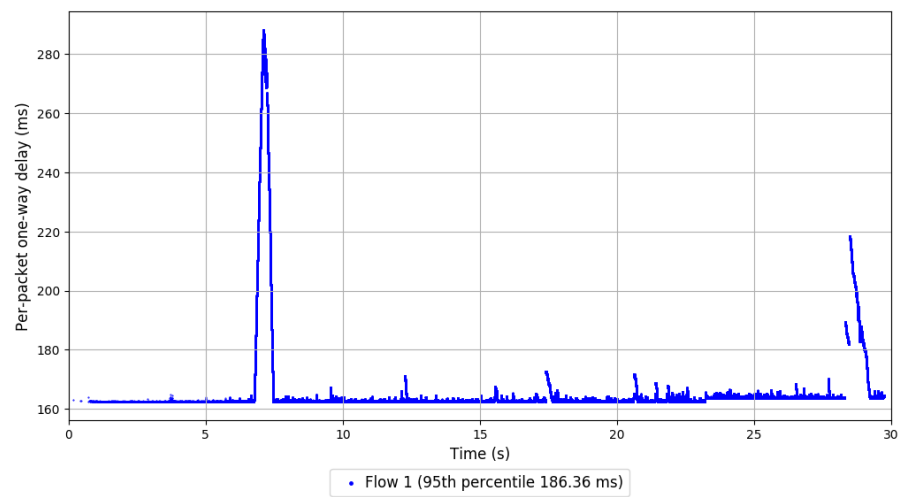
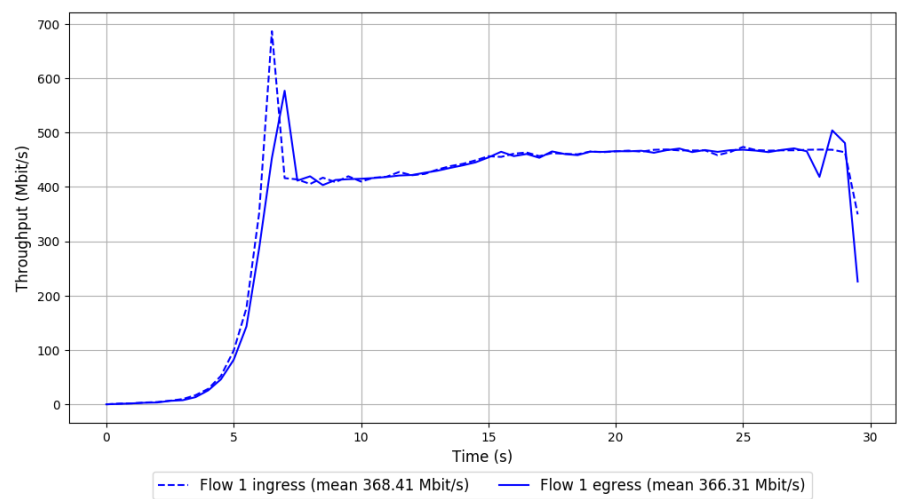
-- Flow 1:

Average throughput: 366.31 Mbit/s

95th percentile per-packet one-way delay: 186.364 ms

Loss rate: 1.57%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-20 11:38:00

End at: 2018-02-20 11:38:30

Below is generated by plot.py at 2018-02-20 15:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.81 Mbit/s

95th percentile per-packet one-way delay: 264.876 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 384.81 Mbit/s

95th percentile per-packet one-way delay: 264.876 ms

Loss rate: 2.04%

Run 10: Report of Vivace-LTE — Data Link

