

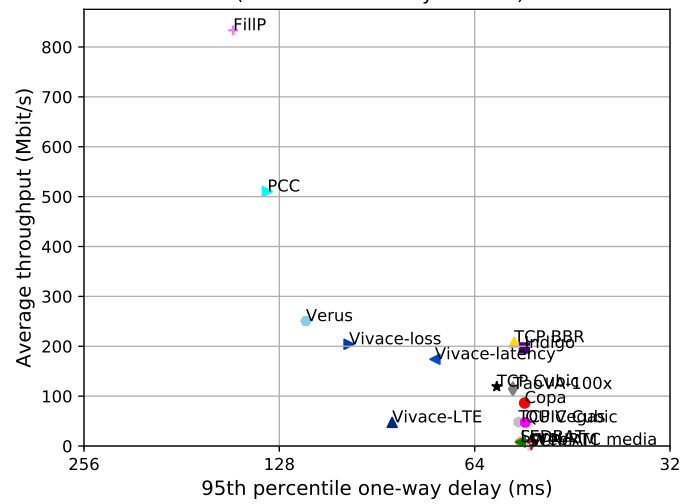
Pantheon Report

Generated at 2018-01-16 20:36:07 (UTC).
Data path: GCE Tokyo 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**).

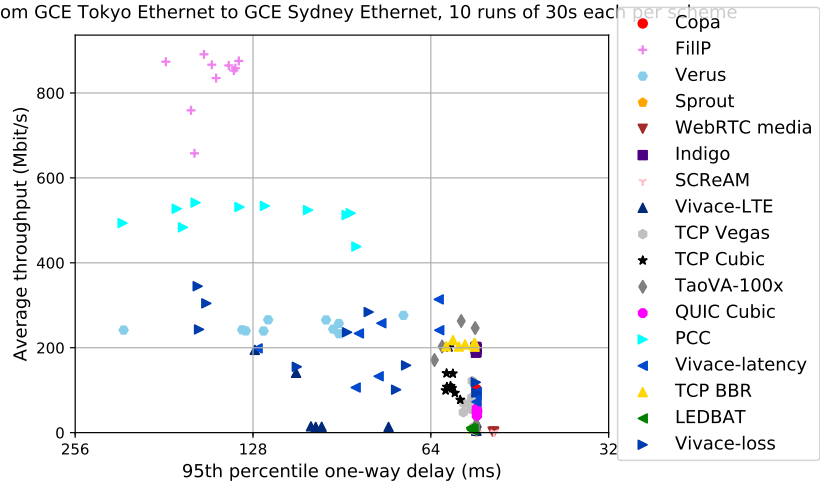
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Tokyo 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	208.02	55.64	0.41
TCP Cubic	9	119.12	59.17	0.43
LEDBAT	9	7.86	54.43	0.70
PCC	10	510.30	133.56	1.09
QUIC Cubic	10	47.45	53.48	0.56
SCReAM	10	0.21	52.86	0.38
WebRTC media	8	2.28	52.35	0.43
Sprout	5	7.72	54.42	0.47
TaoVA-100x	9	114.49	55.89	0.50
TCP Vegas	10	47.91	54.78	0.52
Verus	10	250.43	116.49	0.78
Copa	9	86.26	53.61	0.33
FillP	10	833.48	150.76	9.51
Indigo	10	196.53	53.65	0.38
Vivace-latency	10	173.99	73.70	0.61
Vivace-loss	10	204.02	99.94	1.02
Vivace-LTE	9	47.37	85.77	0.02

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 14:31:17

End at: 2018-01-16 14:31:47

Below is generated by plot.py at 2018-01-16 19:24:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.92 Mbit/s

95th percentile per-packet one-way delay: 54.093 ms

Loss rate: 0.48%

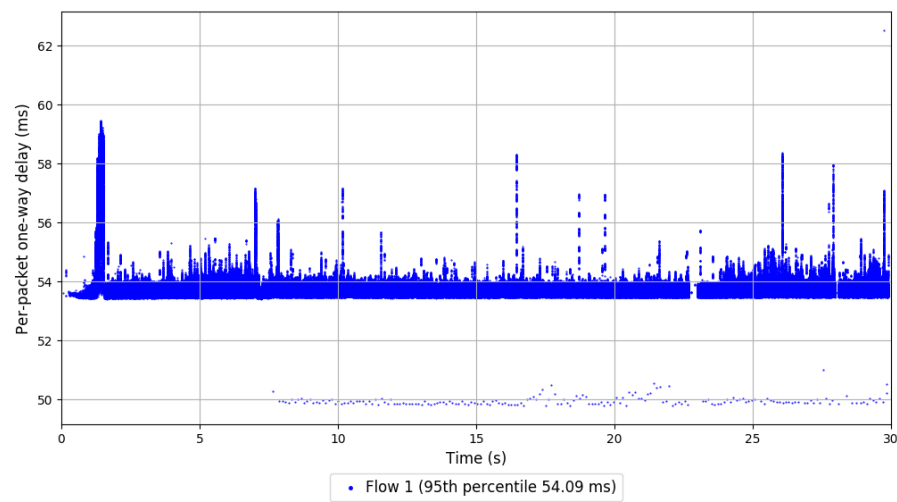
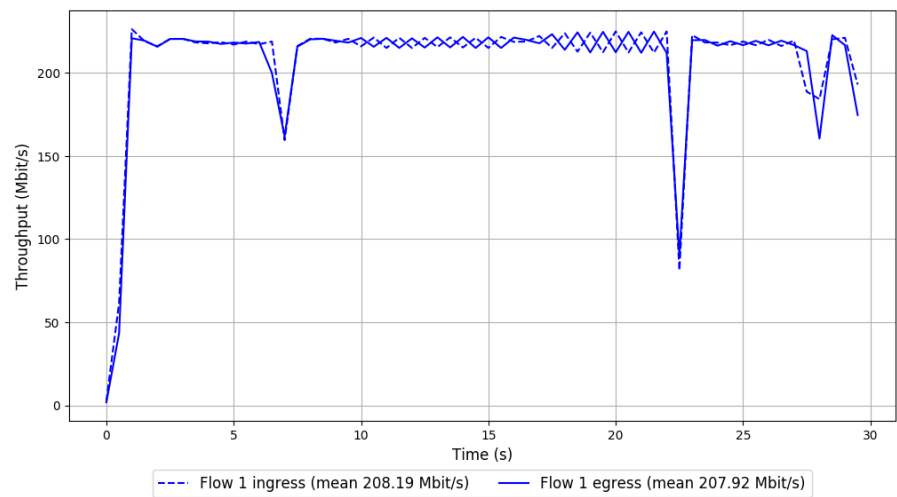
-- Flow 1:

Average throughput: 207.92 Mbit/s

95th percentile per-packet one-way delay: 54.093 ms

Loss rate: 0.48%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-16 14:44:54

End at: 2018-01-16 14:45:24

Below is generated by plot.py at 2018-01-16 19:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.55 Mbit/s

95th percentile per-packet one-way delay: 53.914 ms

Loss rate: 0.38%

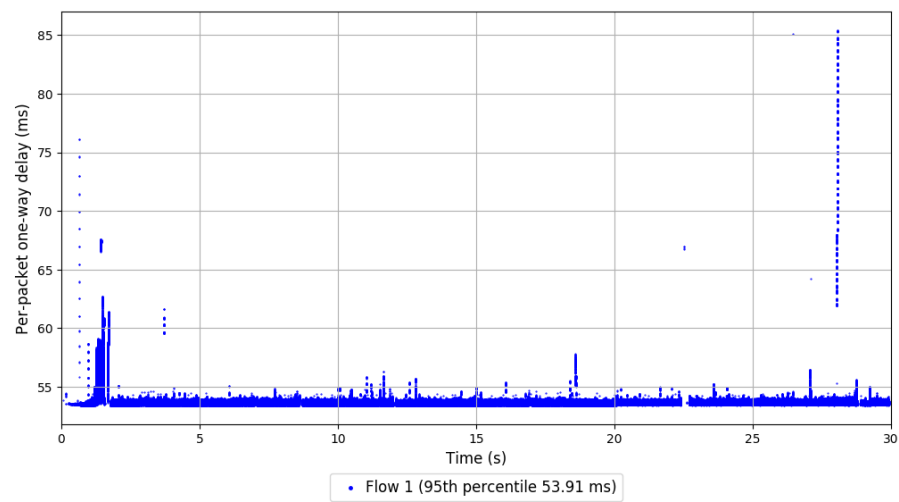
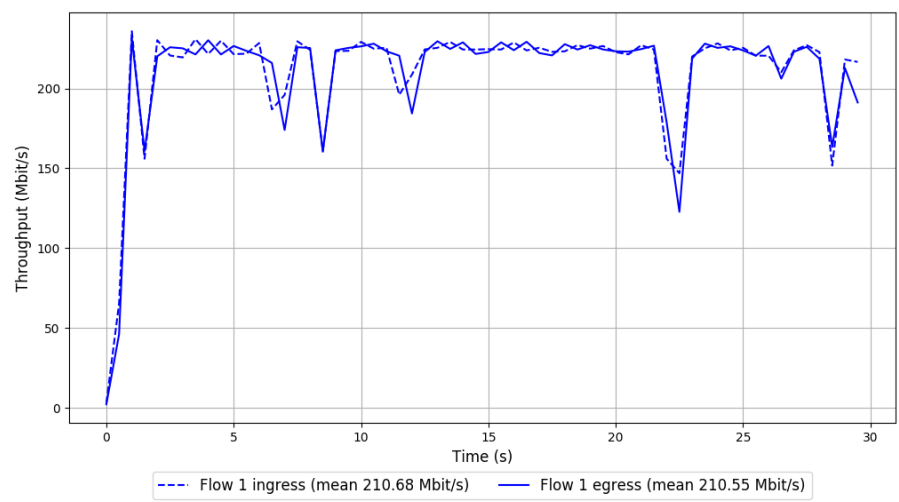
-- Flow 1:

Average throughput: 210.55 Mbit/s

95th percentile per-packet one-way delay: 53.914 ms

Loss rate: 0.38%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 14:58:41

End at: 2018-01-16 14:59:11

Below is generated by plot.py at 2018-01-16 19:24:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.15 Mbit/s

95th percentile per-packet one-way delay: 53.954 ms

Loss rate: 0.42%

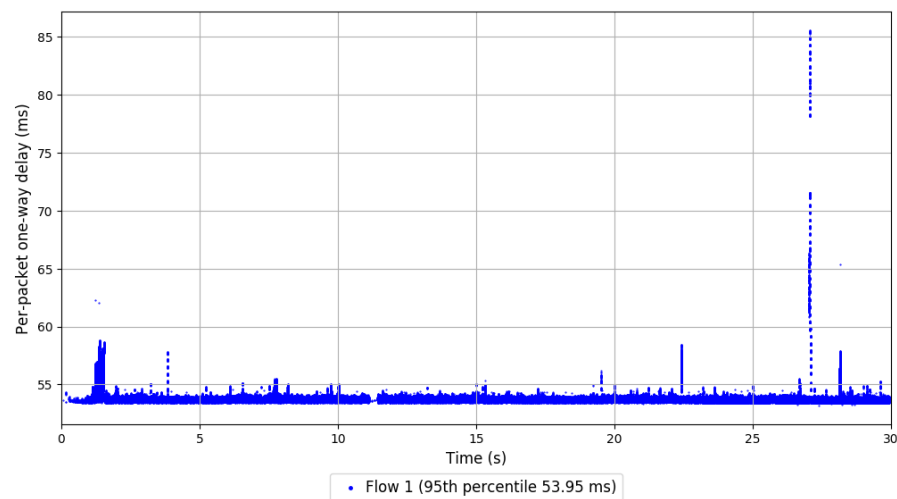
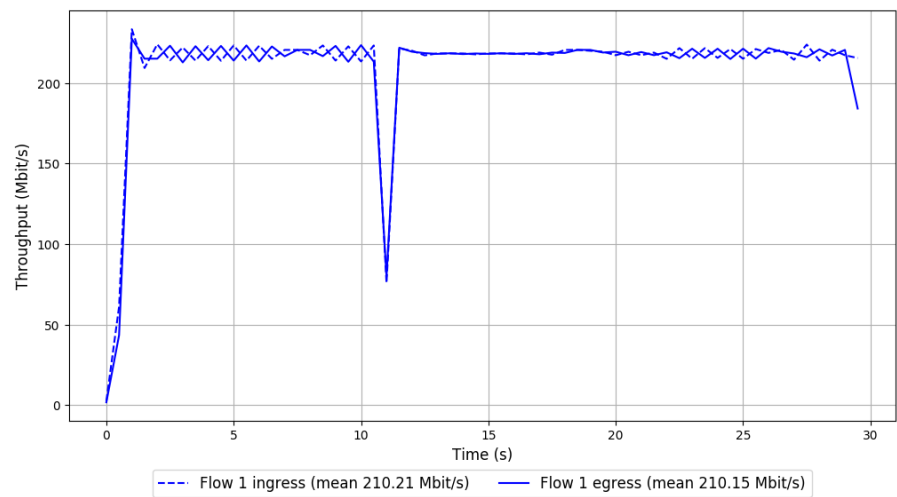
-- Flow 1:

Average throughput: 210.15 Mbit/s

95th percentile per-packet one-way delay: 53.954 ms

Loss rate: 0.42%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 15:13:14

End at: 2018-01-16 15:13:44

Below is generated by plot.py at 2018-01-16 19:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.02 Mbit/s

95th percentile per-packet one-way delay: 58.720 ms

Loss rate: 0.37%

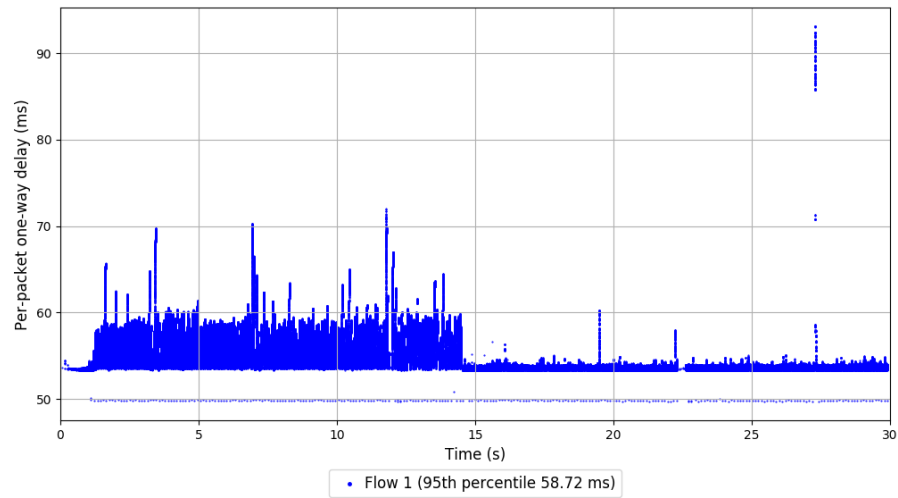
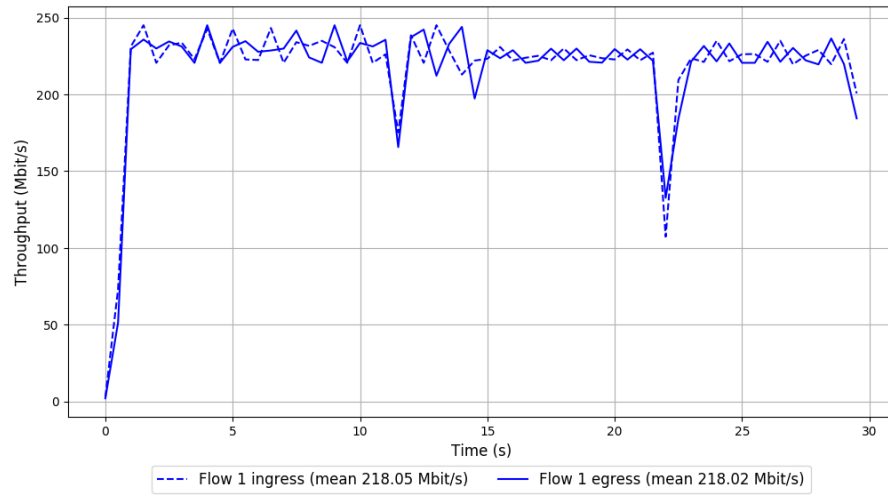
-- Flow 1:

Average throughput: 218.02 Mbit/s

95th percentile per-packet one-way delay: 58.720 ms

Loss rate: 0.37%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 15:27:23

End at: 2018-01-16 15:27:53

Below is generated by plot.py at 2018-01-16 19:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 56.011 ms

Loss rate: 0.37%

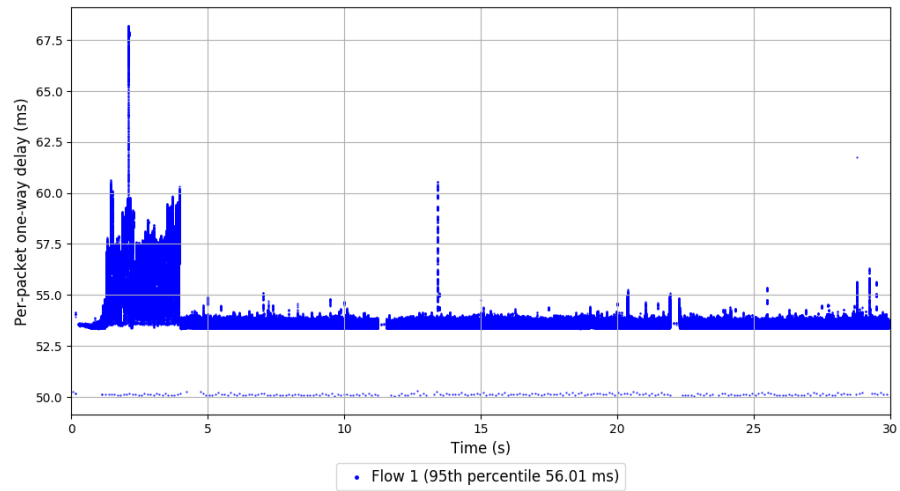
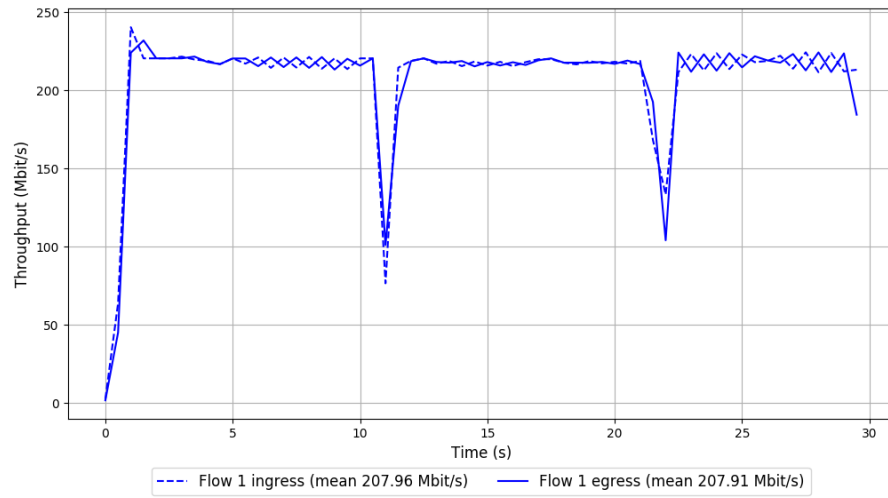
-- Flow 1:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 56.011 ms

Loss rate: 0.37%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-16 15:42:03

End at: 2018-01-16 15:42:33

Below is generated by plot.py at 2018-01-16 19:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.08 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 0.39%

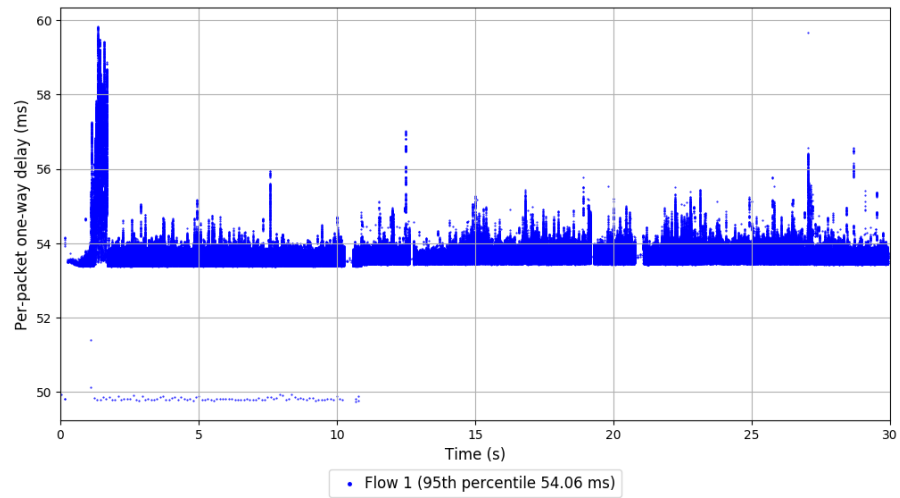
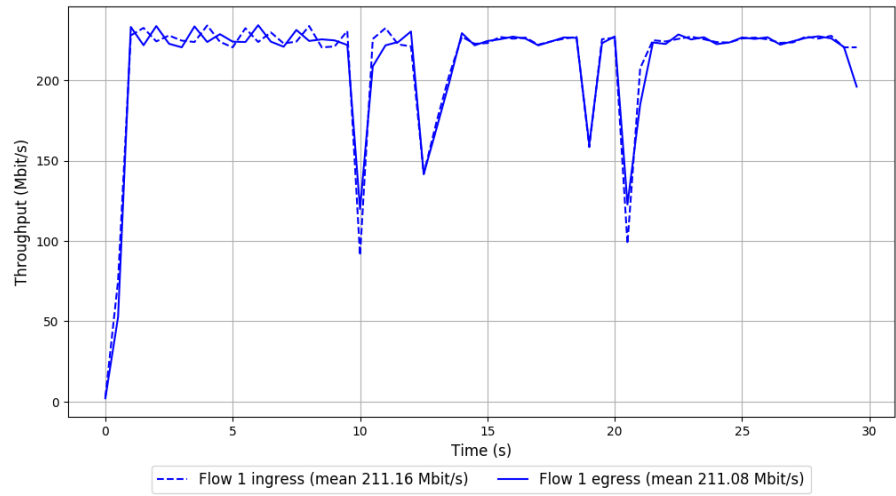
-- Flow 1:

Average throughput: 211.08 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 0.39%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 15:55:51

End at: 2018-01-16 15:56:21

Below is generated by plot.py at 2018-01-16 19:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.75 Mbit/s

95th percentile per-packet one-way delay: 54.048 ms

Loss rate: 0.52%

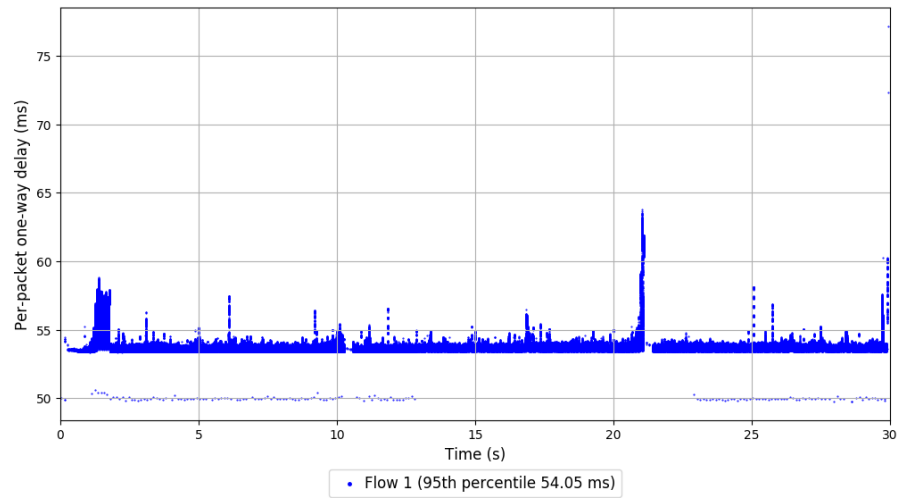
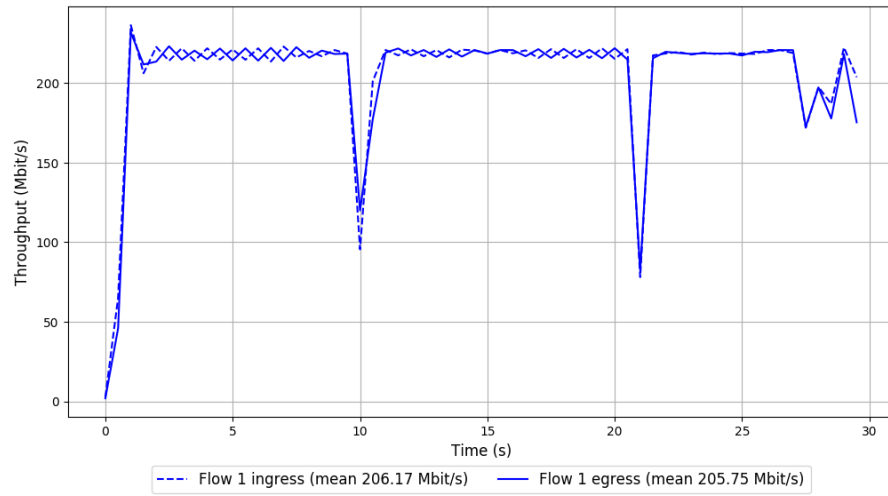
-- Flow 1:

Average throughput: 205.75 Mbit/s

95th percentile per-packet one-way delay: 54.048 ms

Loss rate: 0.52%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-16 16:10:08

End at: 2018-01-16 16:10:38

Below is generated by plot.py at 2018-01-16 19:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.40 Mbit/s

95th percentile per-packet one-way delay: 60.264 ms

Loss rate: 0.38%

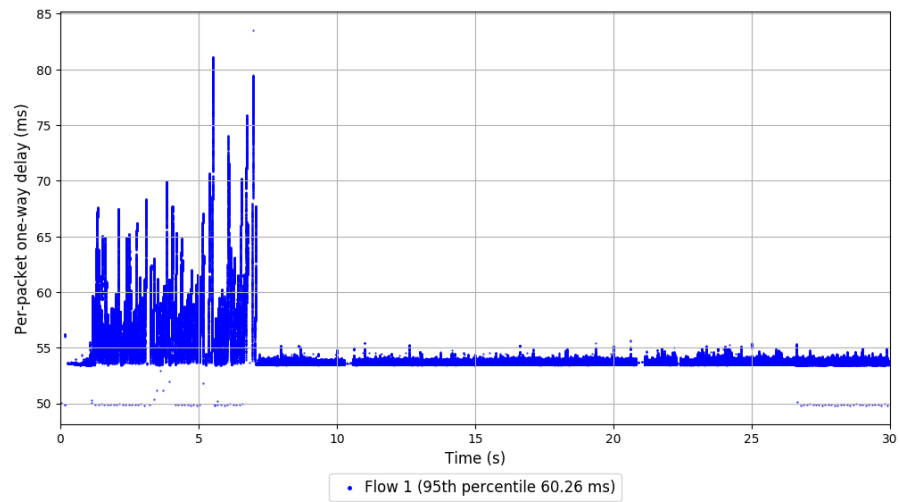
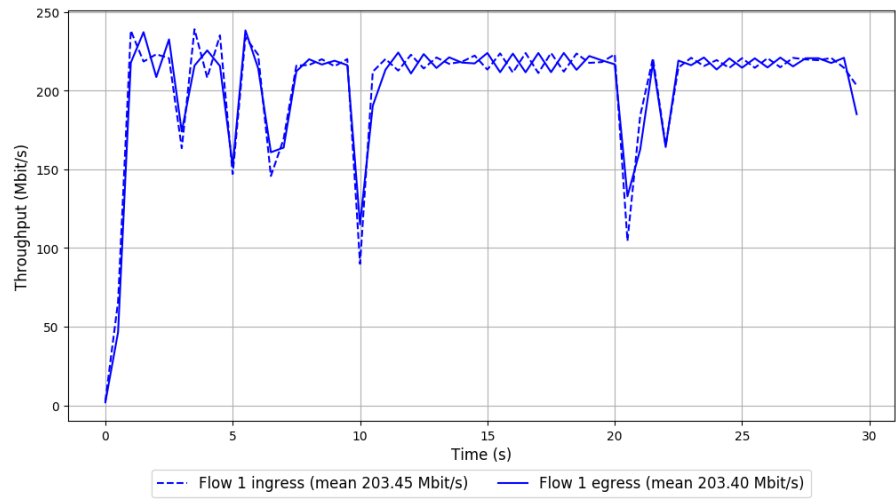
-- Flow 1:

Average throughput: 203.40 Mbit/s

95th percentile per-packet one-way delay: 60.264 ms

Loss rate: 0.38%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 16:24:18

End at: 2018-01-16 16:24:48

Below is generated by plot.py at 2018-01-16 19:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.56 Mbit/s

95th percentile per-packet one-way delay: 53.952 ms

Loss rate: 0.38%

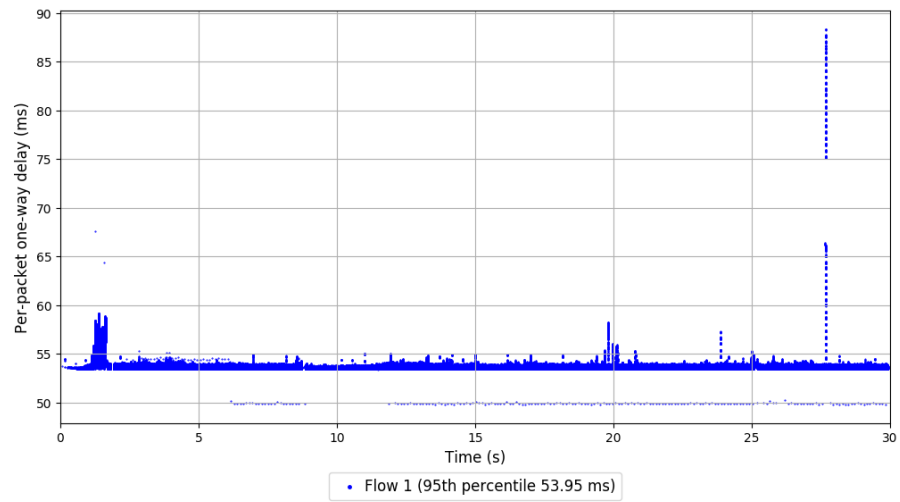
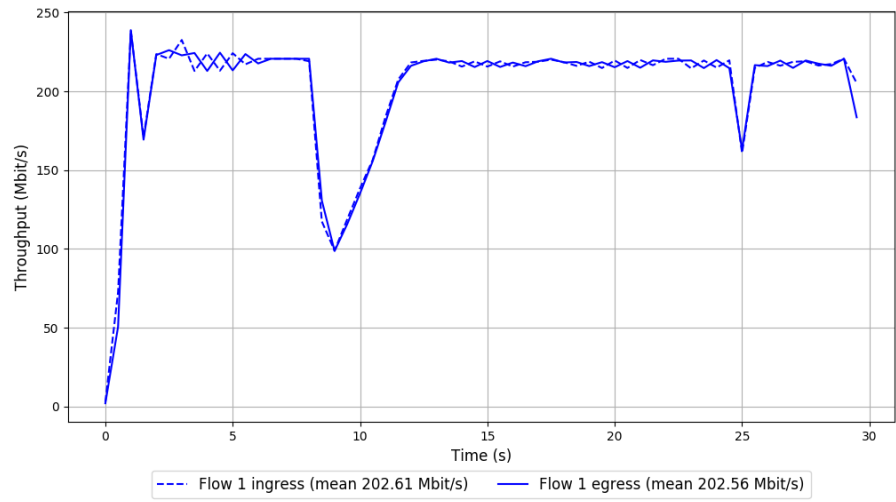
-- Flow 1:

Average throughput: 202.56 Mbit/s

95th percentile per-packet one-way delay: 53.952 ms

Loss rate: 0.38%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-16 16:38:28

End at: 2018-01-16 16:38:58

Below is generated by plot.py at 2018-01-16 19:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.85 Mbit/s

95th percentile per-packet one-way delay: 57.386 ms

Loss rate: 0.38%

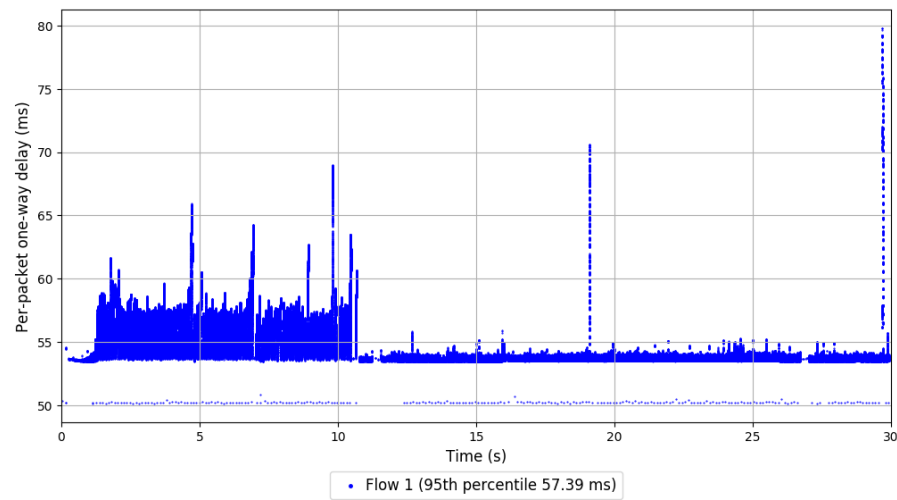
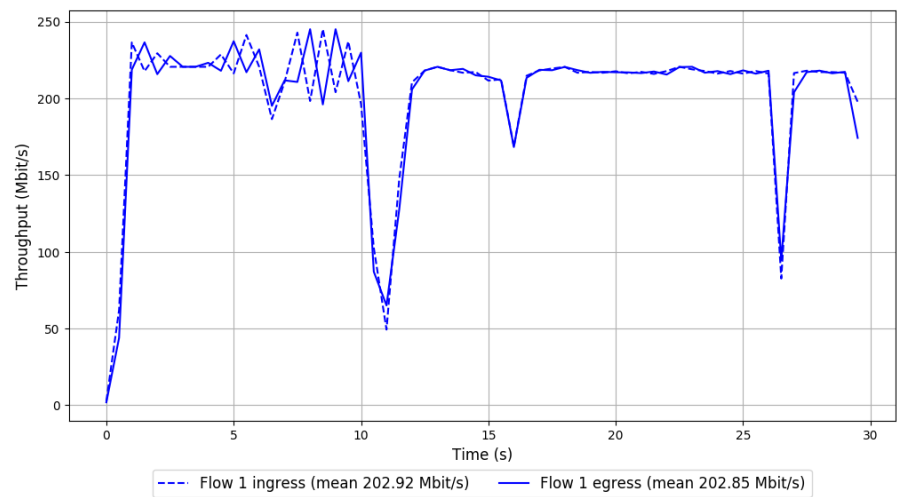
-- Flow 1:

Average throughput: 202.85 Mbit/s

95th percentile per-packet one-way delay: 57.386 ms

Loss rate: 0.38%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 14:35:00

End at: 2018-01-16 14:35:30

Below is generated by plot.py at 2018-01-16 19:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.77 Mbit/s

95th percentile per-packet one-way delay: 60.189 ms

Loss rate: 0.47%

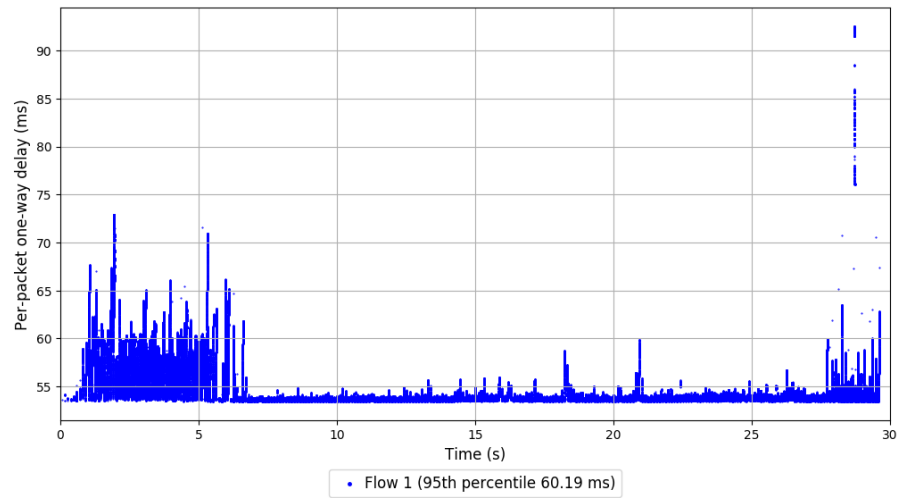
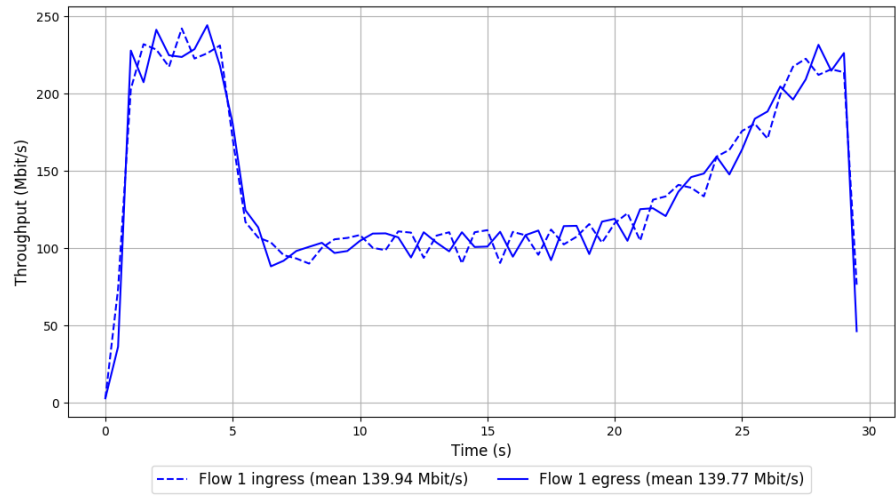
-- Flow 1:

Average throughput: 139.77 Mbit/s

95th percentile per-packet one-way delay: 60.189 ms

Loss rate: 0.47%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 14:48:33

End at: 2018-01-16 14:49:03

Below is generated by plot.py at 2018-01-16 19:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 58.271 ms

Loss rate: 0.37%

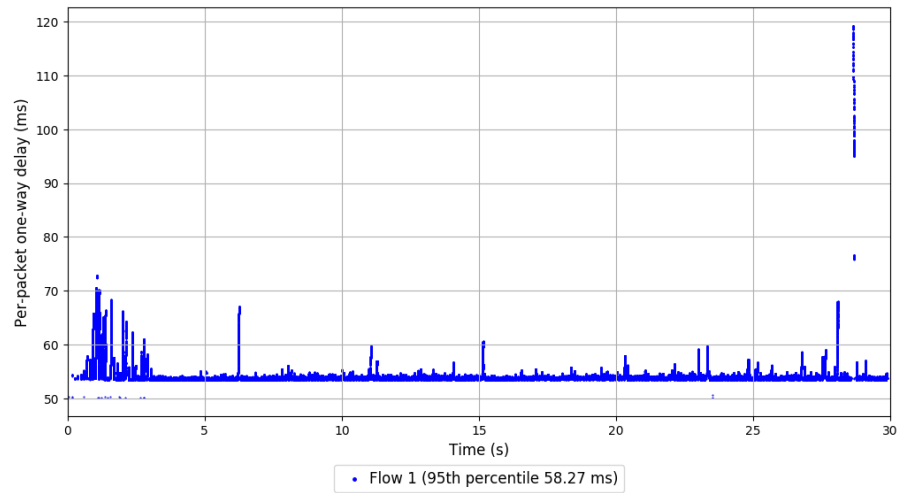
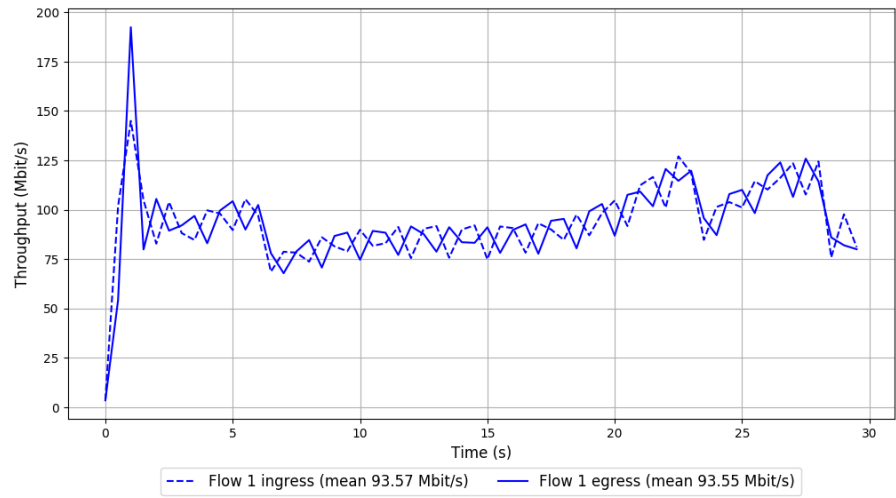
-- Flow 1:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 58.271 ms

Loss rate: 0.37%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 15:02:43

End at: 2018-01-16 15:03:13

Below is generated by plot.py at 2018-01-16 19:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.44 Mbit/s

95th percentile per-packet one-way delay: 60.416 ms

Loss rate: 0.90%

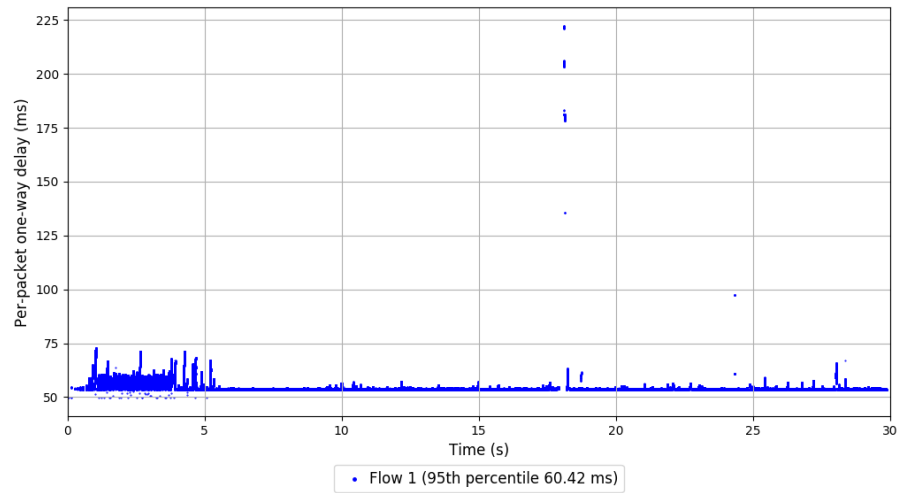
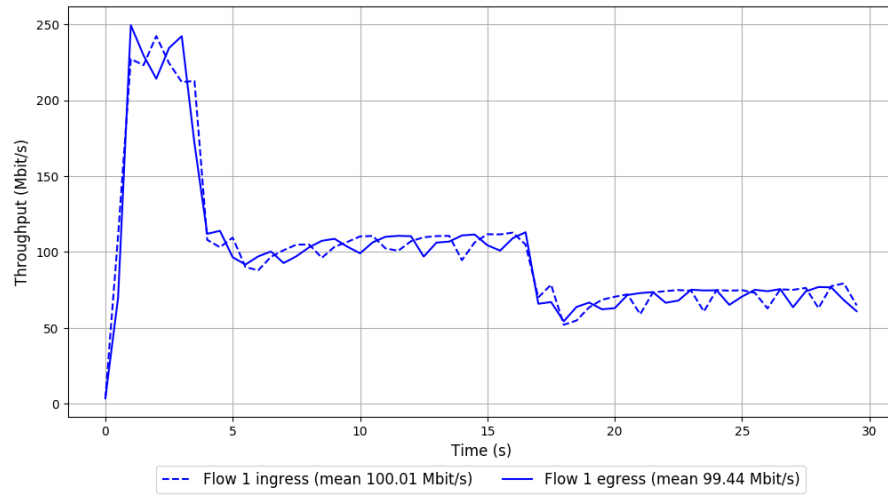
-- Flow 1:

Average throughput: 99.44 Mbit/s

95th percentile per-packet one-way delay: 60.416 ms

Loss rate: 0.90%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 15:17:18

End at: 2018-01-16 15:17:48

Below is generated by plot.py at 2018-01-16 19:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.79 Mbit/s

95th percentile per-packet one-way delay: 58.927 ms

Loss rate: 0.38%

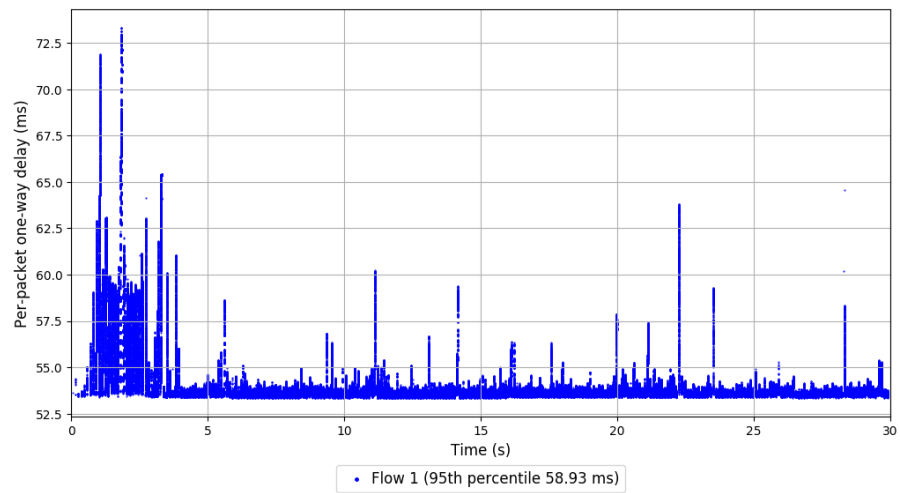
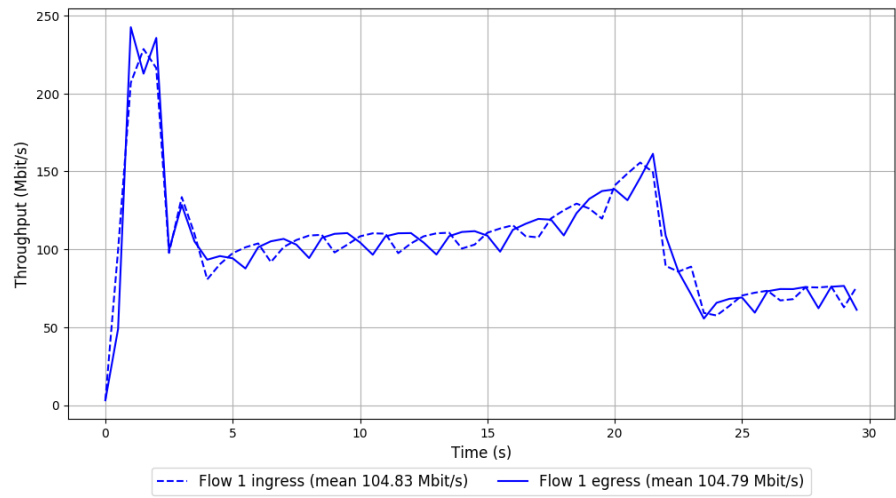
-- Flow 1:

Average throughput: 104.79 Mbit/s

95th percentile per-packet one-way delay: 58.927 ms

Loss rate: 0.38%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 15:31:12

End at: 2018-01-16 15:31:42

Below is generated by plot.py at 2018-01-16 19:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.54 Mbit/s

95th percentile per-packet one-way delay: 59.534 ms

Loss rate: 0.37%

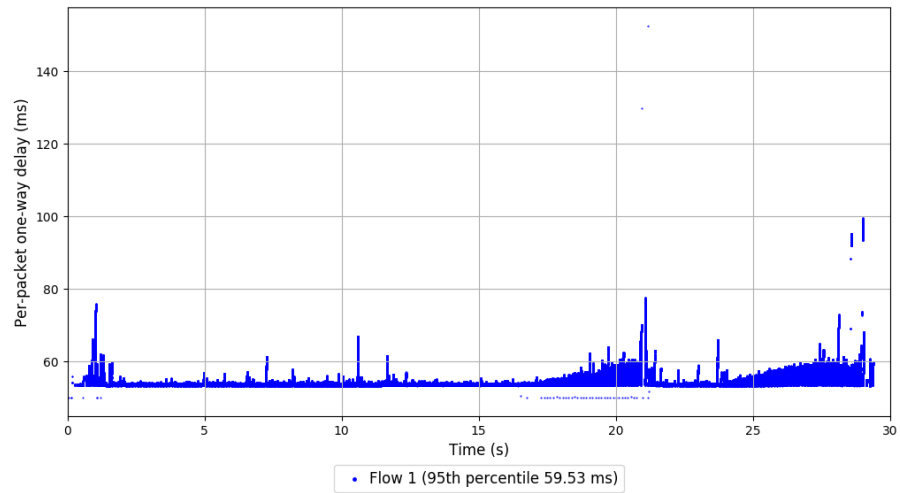
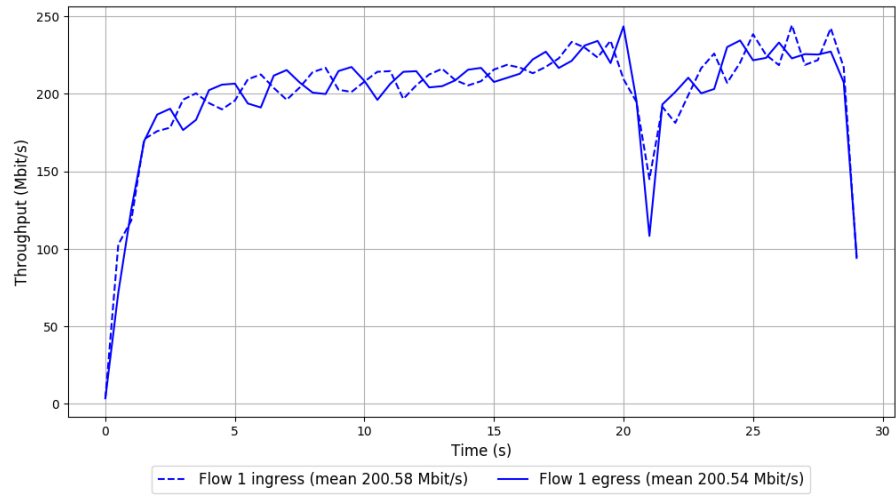
-- Flow 1:

Average throughput: 200.54 Mbit/s

95th percentile per-packet one-way delay: 59.534 ms

Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link

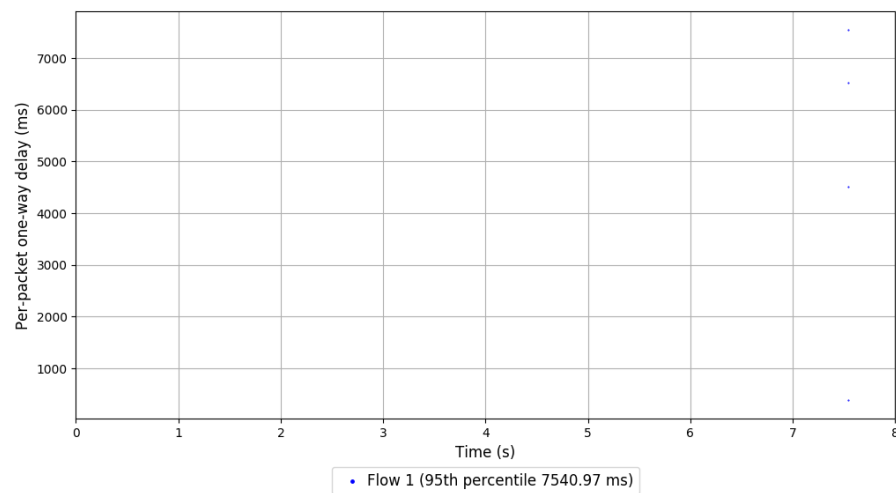
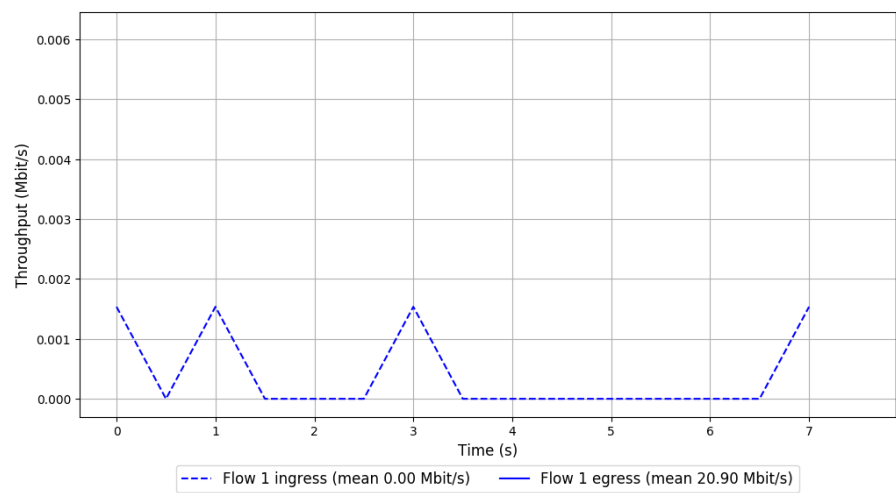


Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 15:45:45

End at: 2018-01-16 15:46:15

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 15:59:57

End at: 2018-01-16 16:00:28

Below is generated by plot.py at 2018-01-16 19:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.83 Mbit/s

95th percentile per-packet one-way delay: 60.127 ms

Loss rate: 0.47%

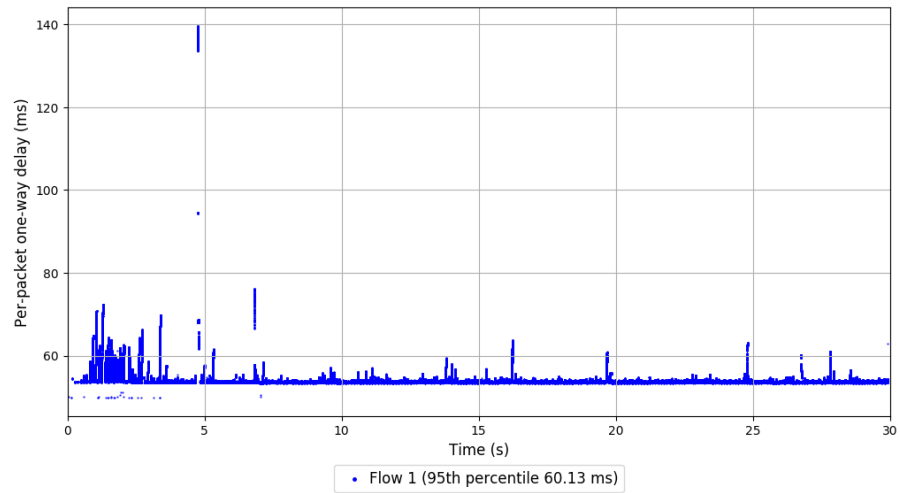
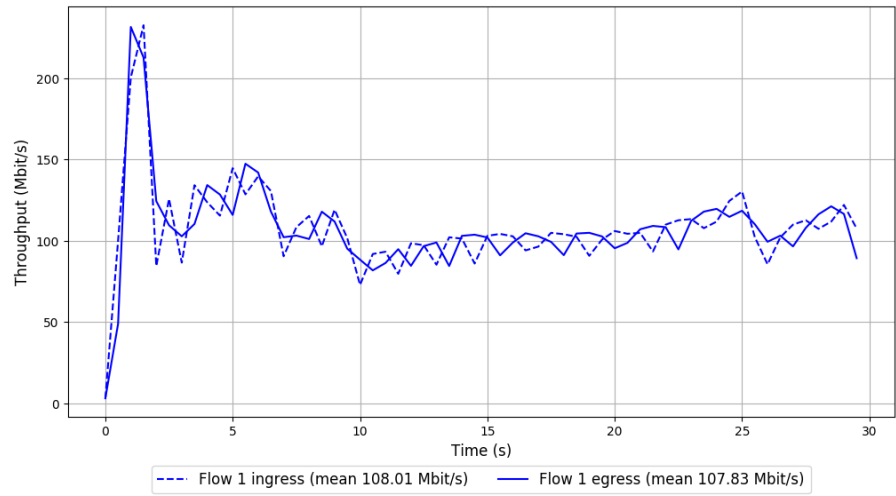
-- Flow 1:

Average throughput: 107.83 Mbit/s

95th percentile per-packet one-way delay: 60.127 ms

Loss rate: 0.47%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 16:13:59

End at: 2018-01-16 16:14:29

Below is generated by plot.py at 2018-01-16 19:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.80 Mbit/s

95th percentile per-packet one-way delay: 59.267 ms

Loss rate: 0.33%

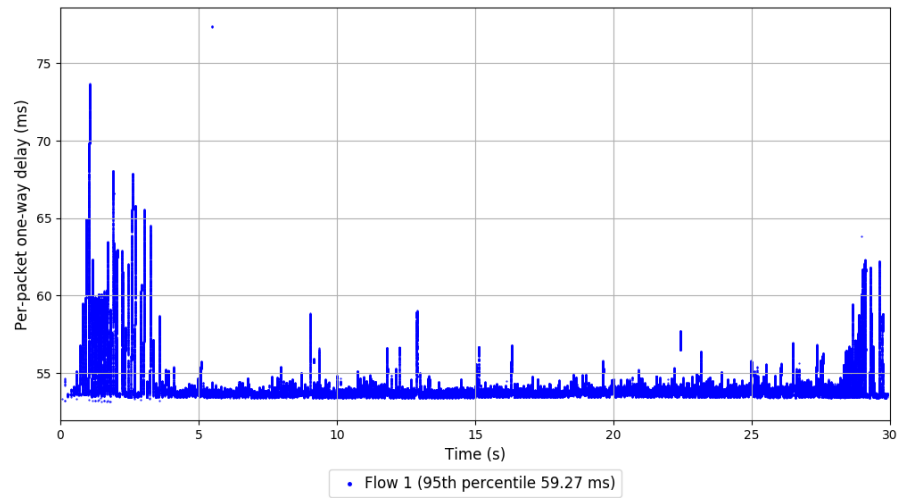
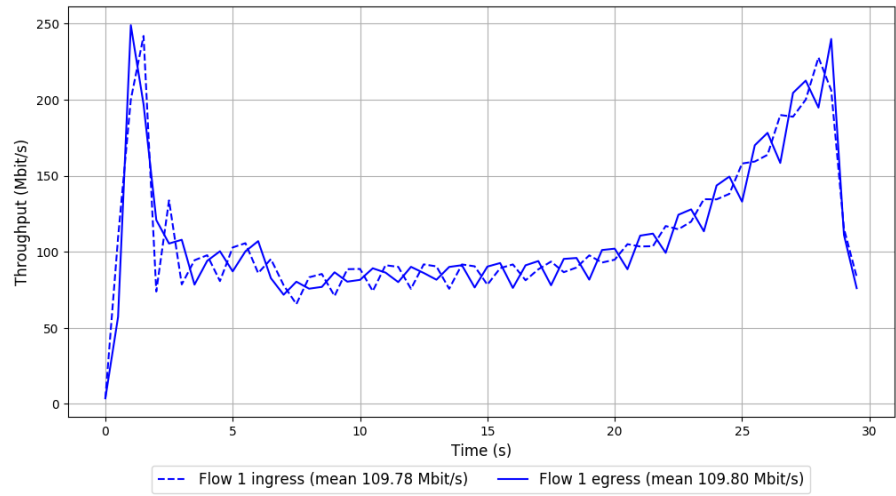
-- Flow 1:

Average throughput: 109.80 Mbit/s

95th percentile per-packet one-way delay: 59.267 ms

Loss rate: 0.33%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 16:28:12

End at: 2018-01-16 16:28:42

Below is generated by plot.py at 2018-01-16 19:28:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 57.064 ms

Loss rate: 0.38%

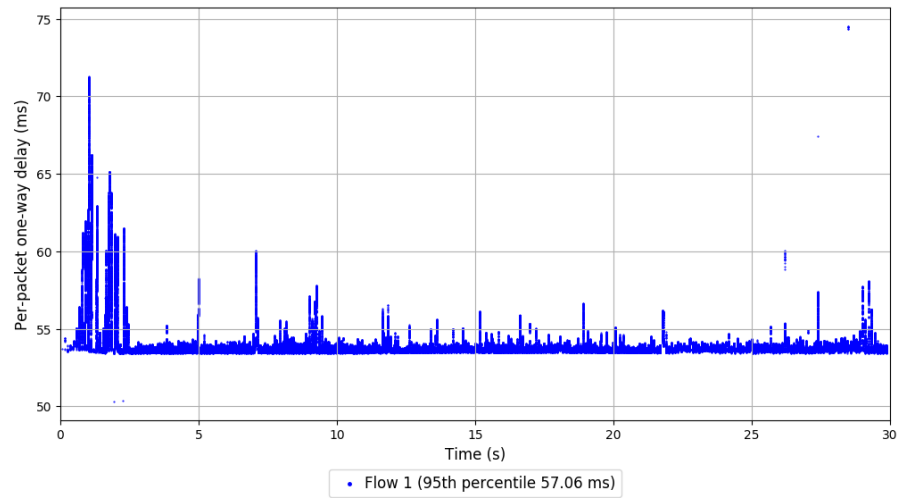
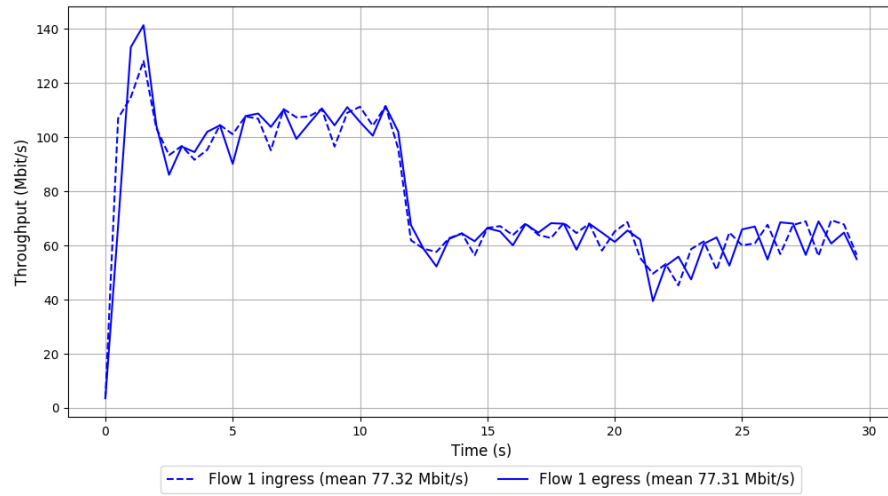
-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 57.064 ms

Loss rate: 0.38%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 16:42:06

End at: 2018-01-16 16:42:36

Below is generated by plot.py at 2018-01-16 19:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.02 Mbit/s

95th percentile per-packet one-way delay: 58.745 ms

Loss rate: 0.23%

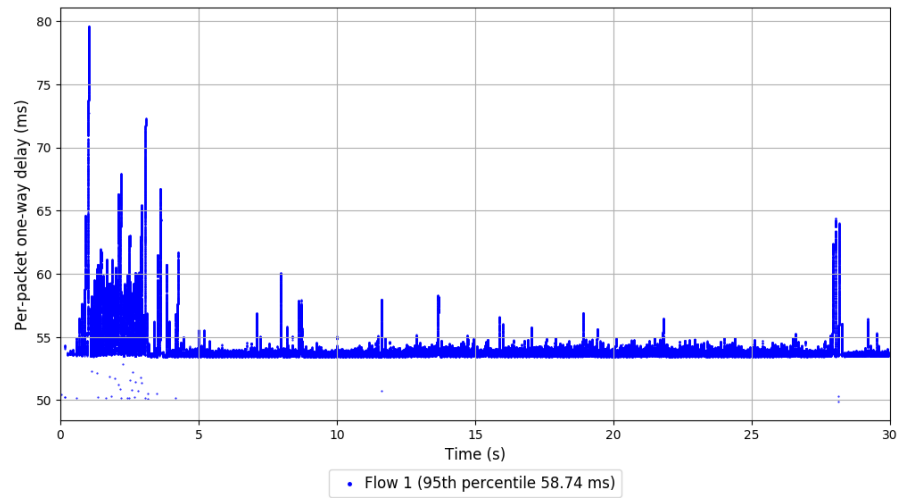
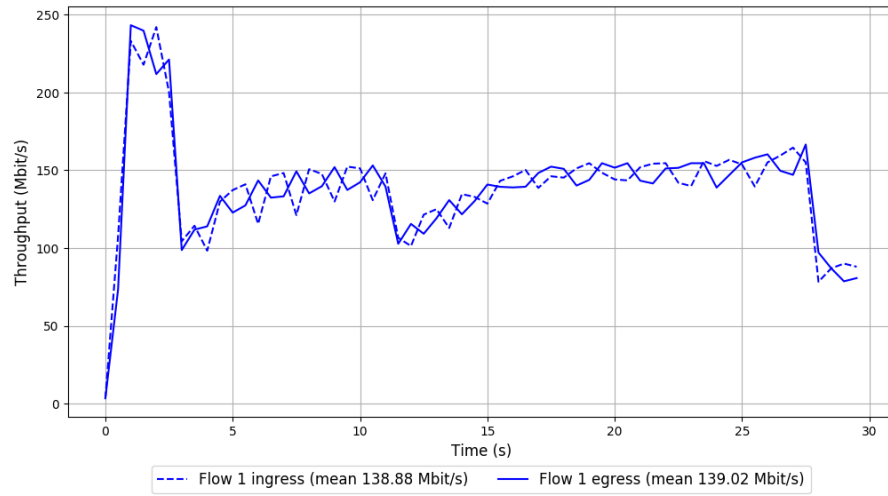
-- Flow 1:

Average throughput: 139.02 Mbit/s

95th percentile per-packet one-way delay: 58.745 ms

Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link

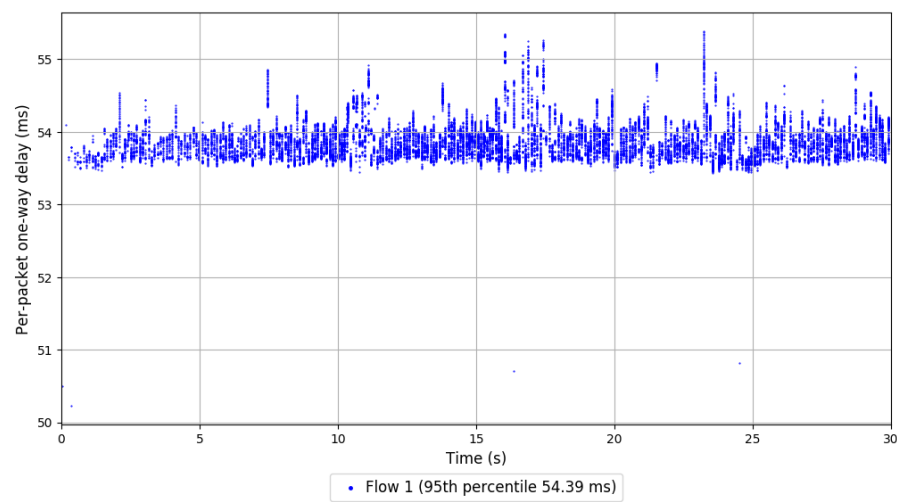
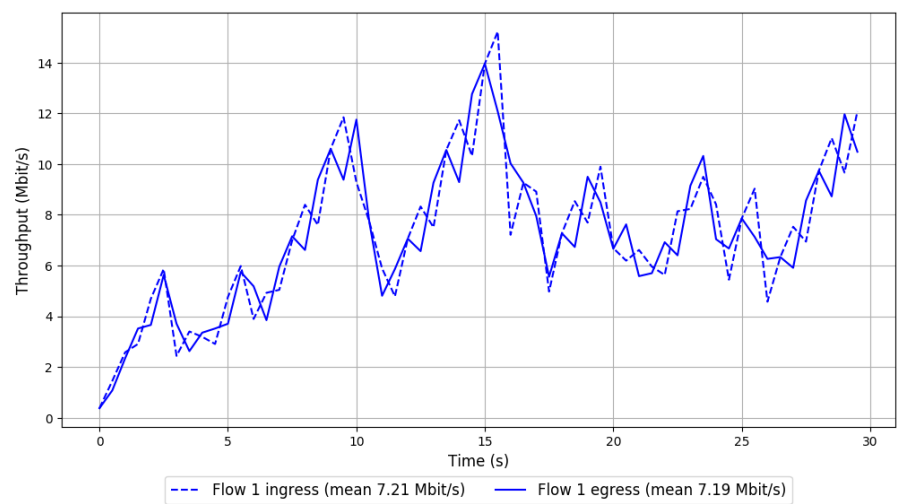


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 14:39:44
End at: 2018-01-16 14:40:14

# Below is generated by plot.py at 2018-01-16 19:29:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 54.388 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 54.388 ms
Loss rate: 0.61%
```


Run 1: Report of LEDBAT — Data Link

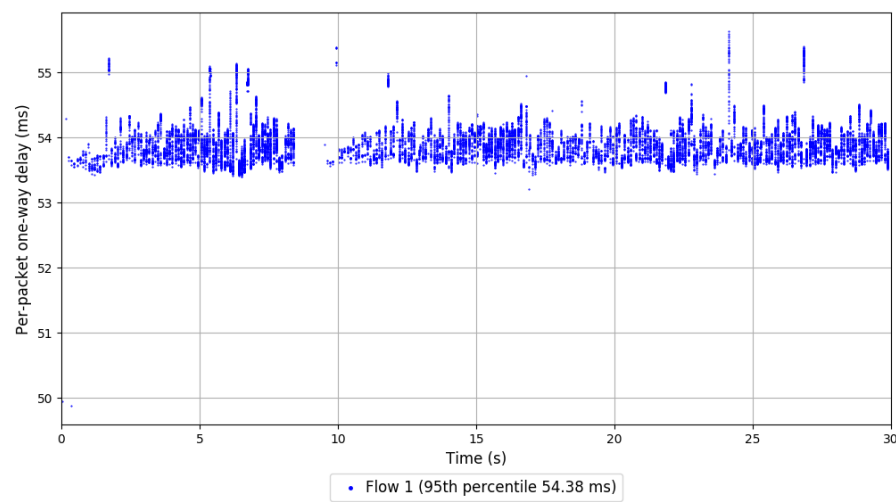
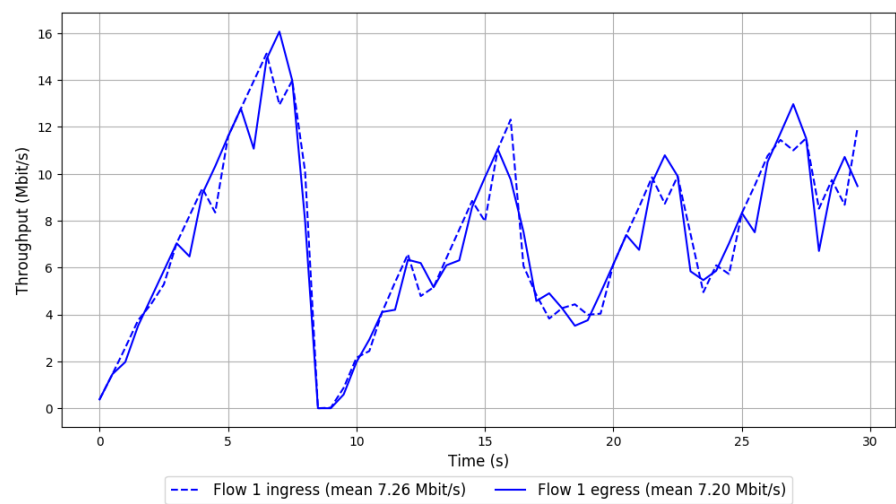


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 14:53:24
End at: 2018-01-16 14:53:54

# Below is generated by plot.py at 2018-01-16 19:29:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 54.378 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 54.378 ms
Loss rate: 1.18%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 15:07:58

End at: 2018-01-16 15:08:28

Below is generated by plot.py at 2018-01-16 19:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 54.517 ms

Loss rate: 1.06%

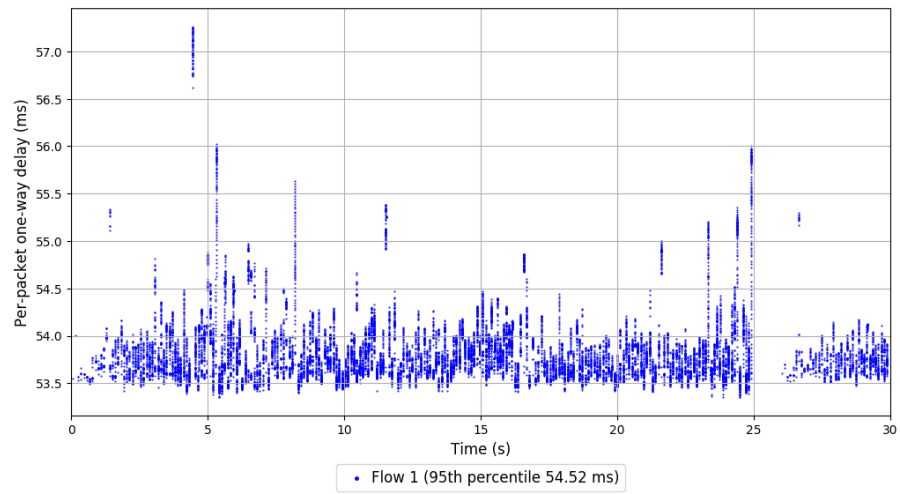
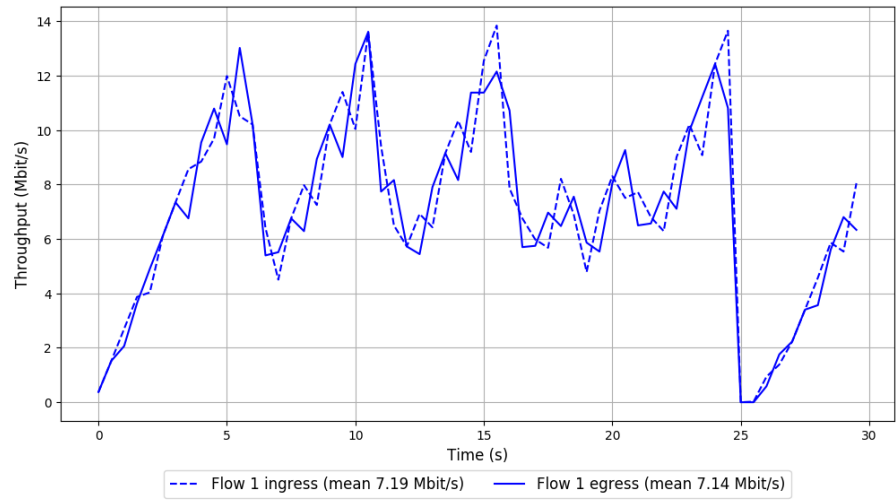
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 54.517 ms

Loss rate: 1.06%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 15:22:18

End at: 2018-01-16 15:22:48

Below is generated by plot.py at 2018-01-16 19:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 0.42%

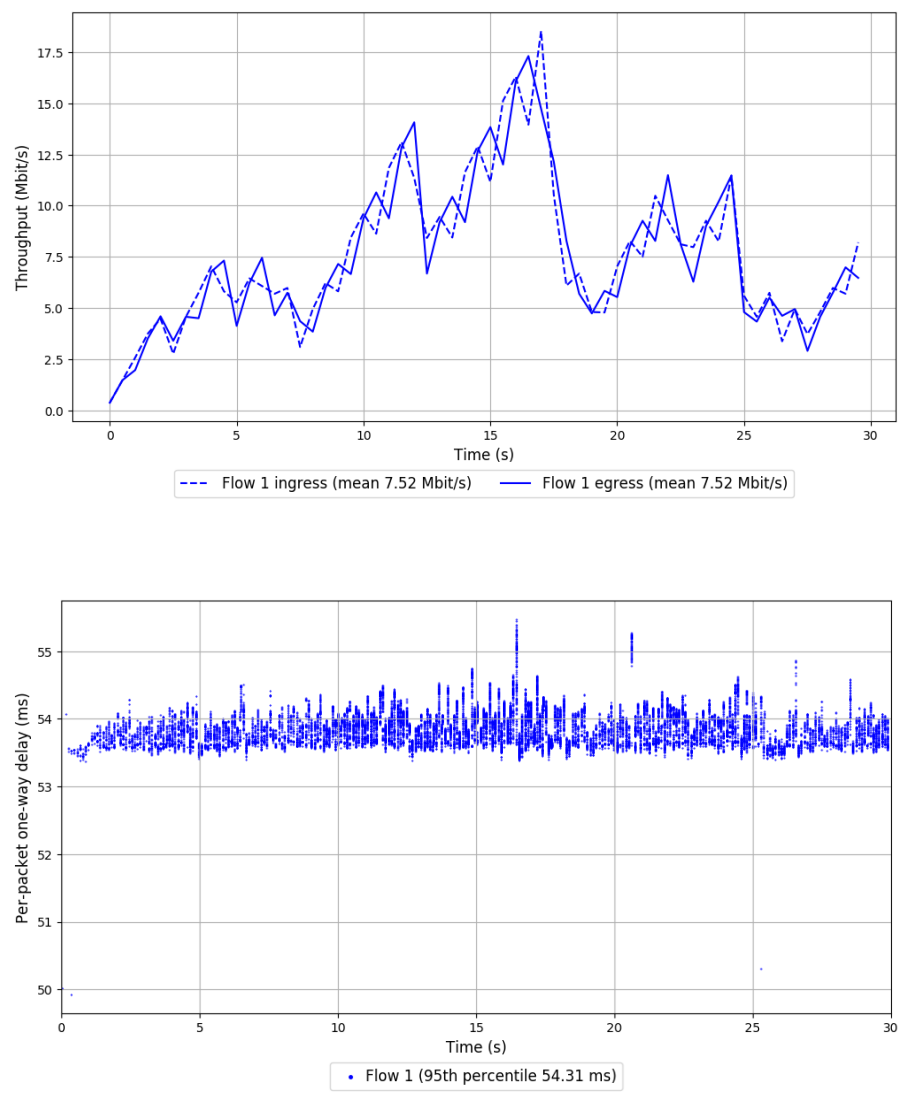
-- Flow 1:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 0.42%

Run 4: Report of LEDBAT — Data Link

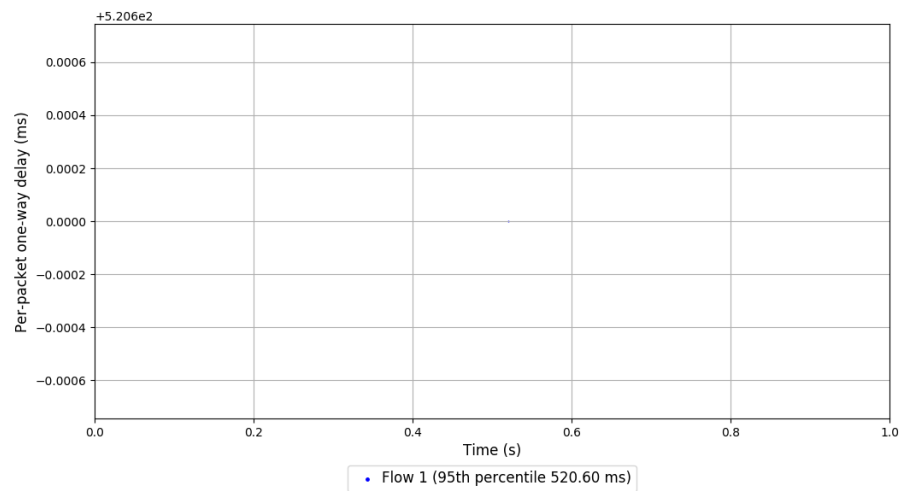
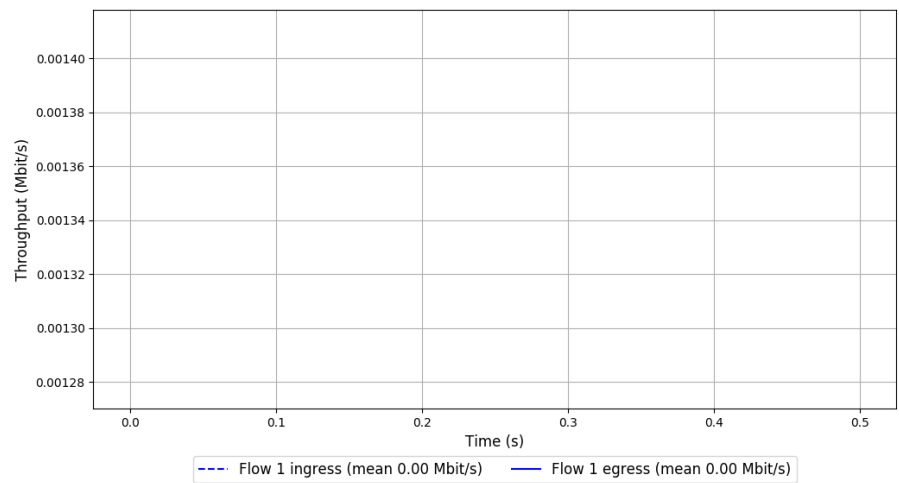


Run 5: Statistics of LEDBAT

Start at: 2018-01-16 15:36:45

End at: 2018-01-16 15:37:15

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 15:50:36

End at: 2018-01-16 15:51:06

Below is generated by plot.py at 2018-01-16 19:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.605 ms

Loss rate: 0.76%

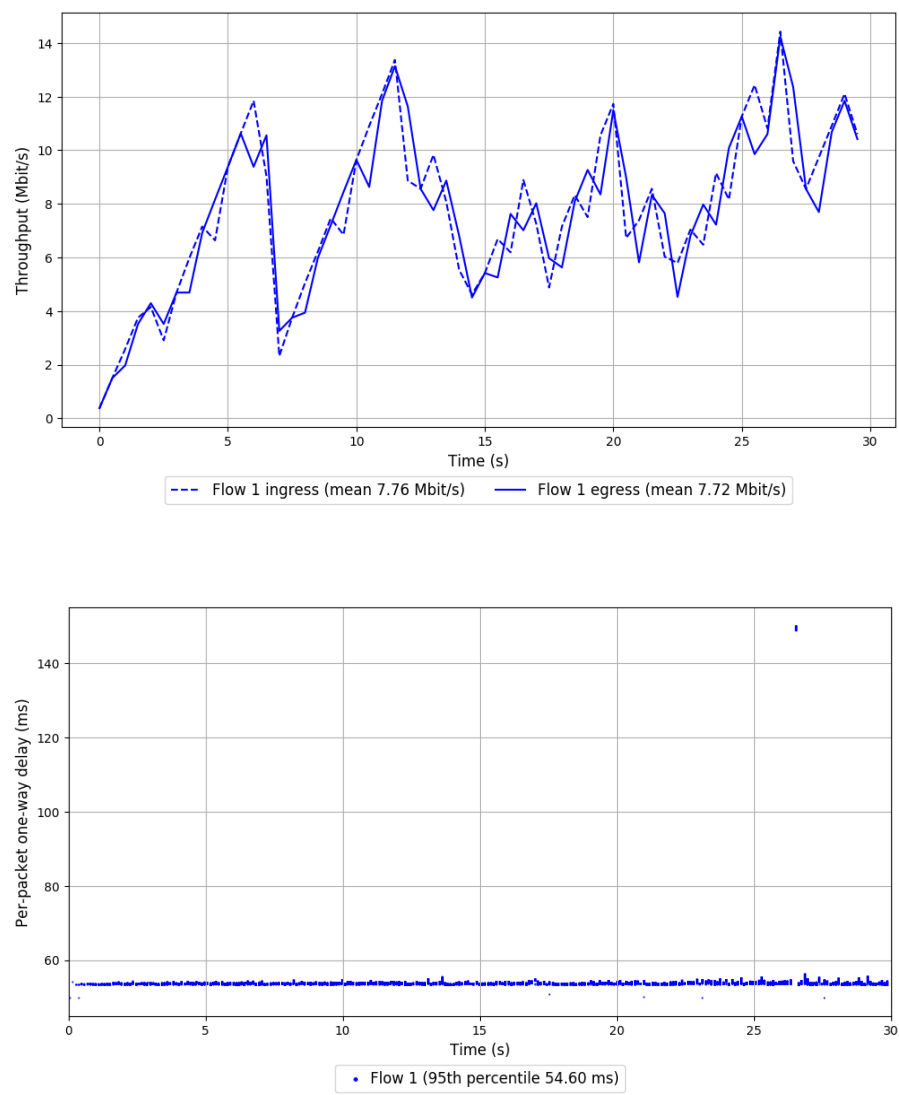
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.605 ms

Loss rate: 0.76%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 16:04:51

End at: 2018-01-16 16:05:21

Below is generated by plot.py at 2018-01-16 19:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 54.419 ms

Loss rate: 1.07%

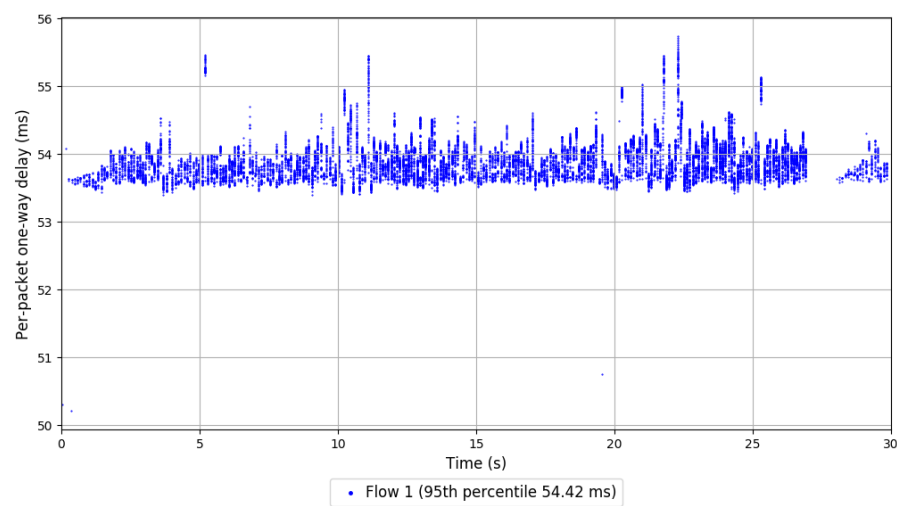
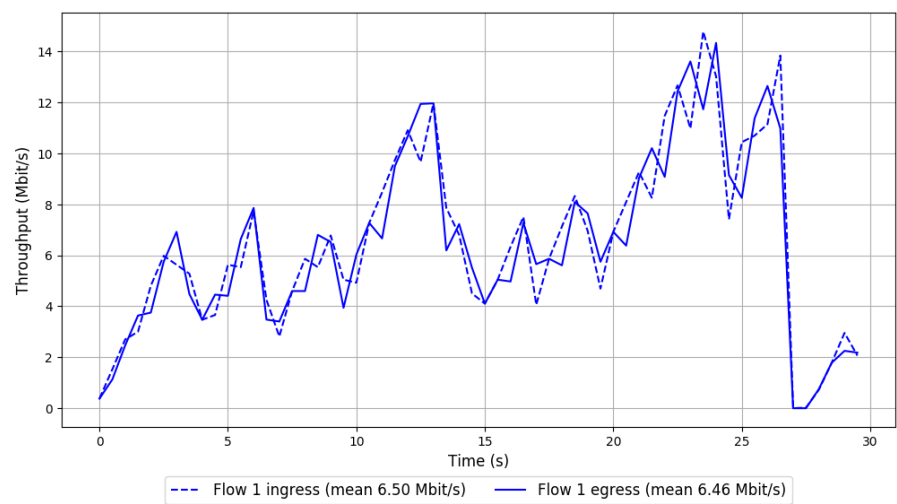
-- Flow 1:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 54.419 ms

Loss rate: 1.07%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-16 16:19:02

End at: 2018-01-16 16:19:32

Below is generated by plot.py at 2018-01-16 19:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 0.35%

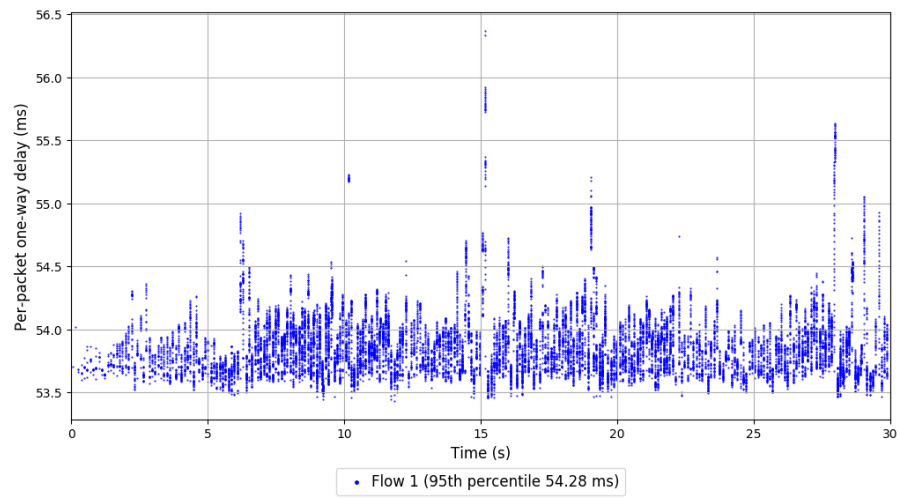
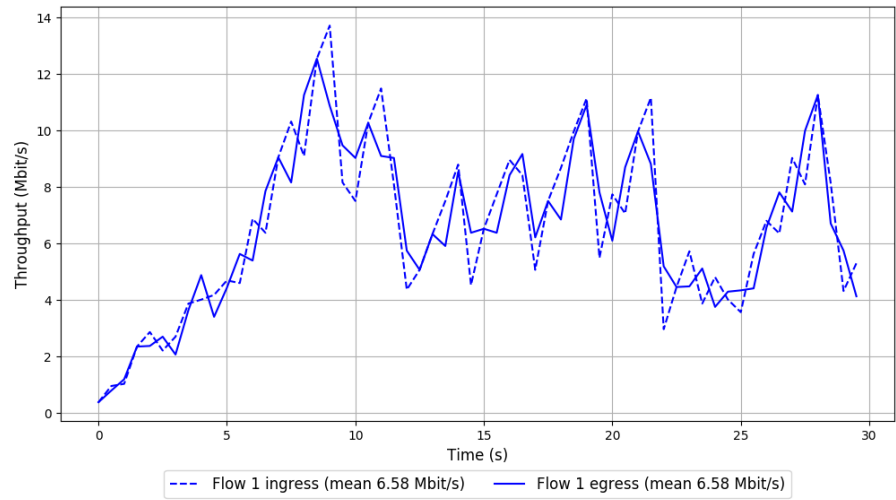
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 0.35%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 16:33:12

End at: 2018-01-16 16:33:42

Below is generated by plot.py at 2018-01-16 19:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 54.739 ms

Loss rate: 0.38%

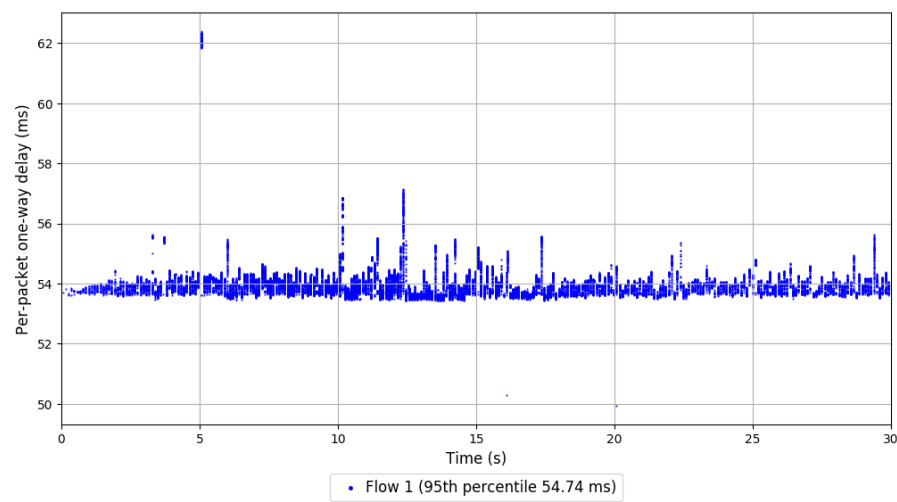
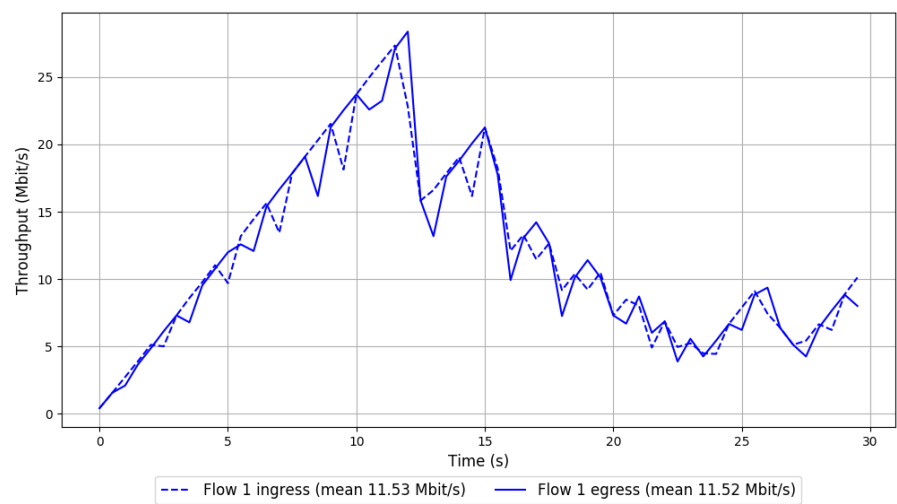
-- Flow 1:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 54.739 ms

Loss rate: 0.38%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-16 16:47:19

End at: 2018-01-16 16:47:49

Below is generated by plot.py at 2018-01-16 19:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 54.268 ms

Loss rate: 0.50%

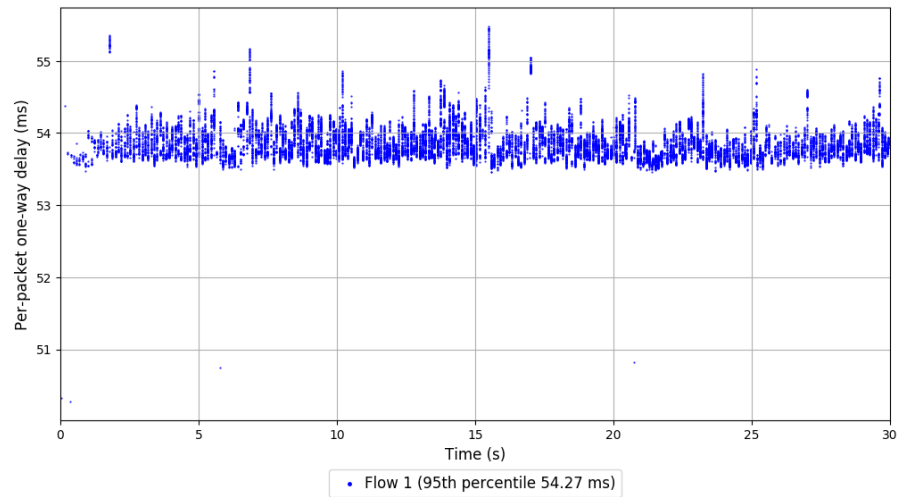
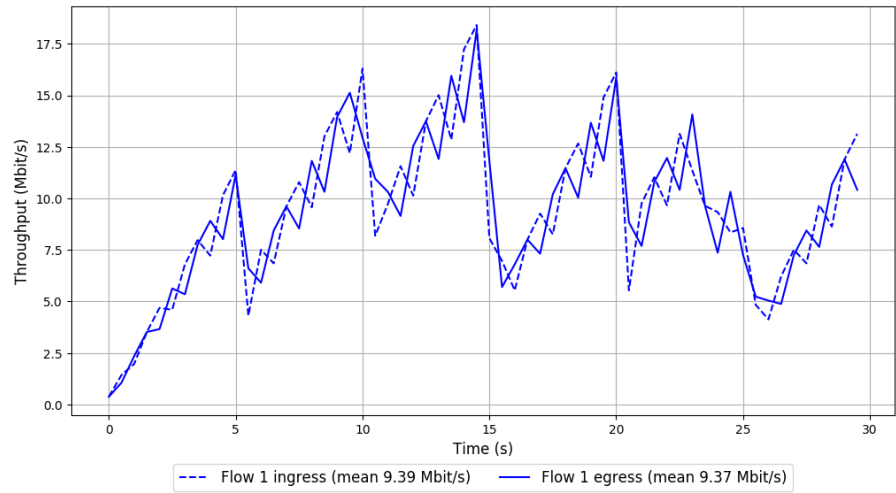
-- Flow 1:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 54.268 ms

Loss rate: 0.50%

Run 10: Report of LEDBAT — Data Link

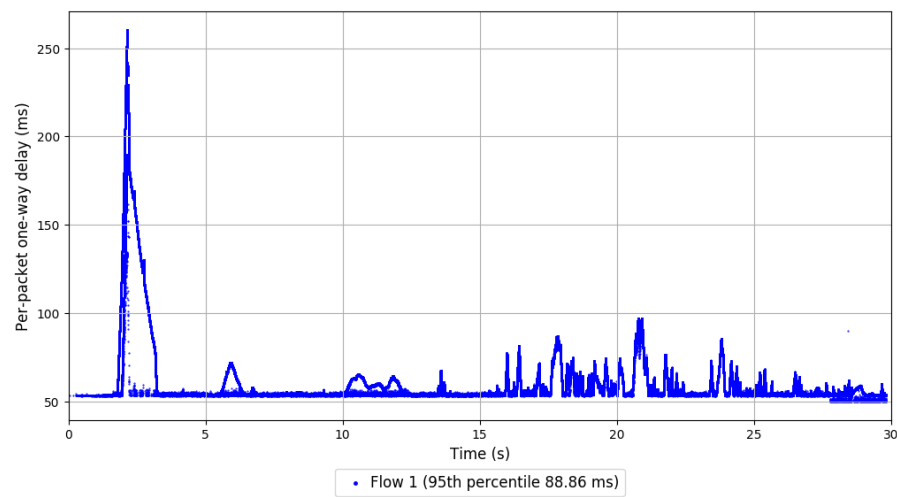
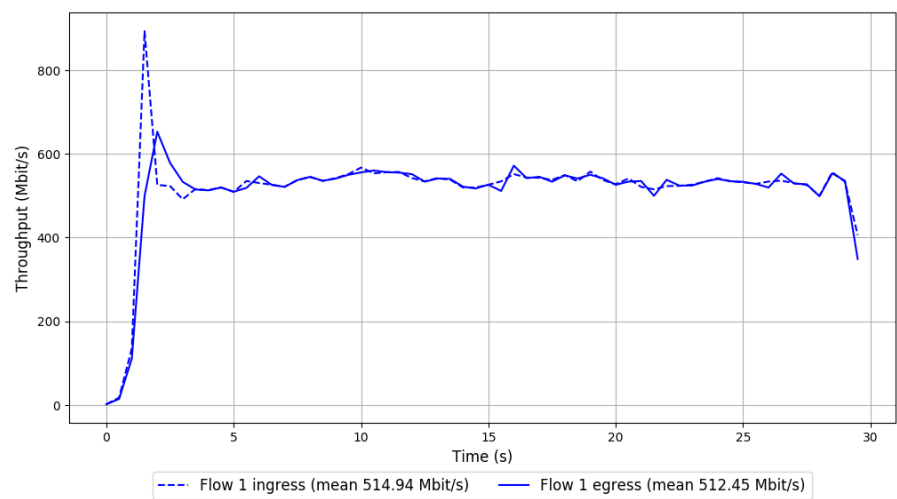


```
Run 1: Statistics of PCC

Start at: 2018-01-16 14:37:16
End at: 2018-01-16 14:37:46

# Below is generated by plot.py at 2018-01-16 19:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.45 Mbit/s
95th percentile per-packet one-way delay: 88.860 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 512.45 Mbit/s
95th percentile per-packet one-way delay: 88.860 ms
Loss rate: 0.83%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 14:50:58

End at: 2018-01-16 14:51:28

Below is generated by plot.py at 2018-01-16 19:36:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 483.54 Mbit/s

95th percentile per-packet one-way delay: 168.156 ms

Loss rate: 1.68%

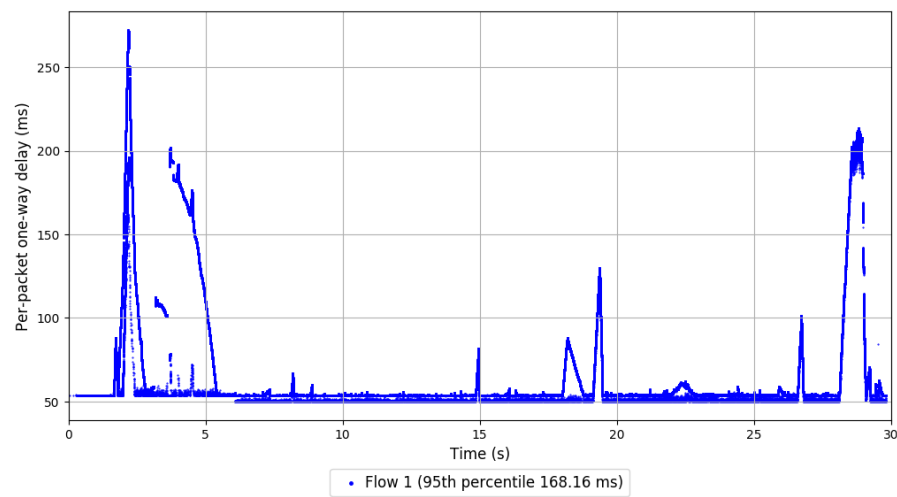
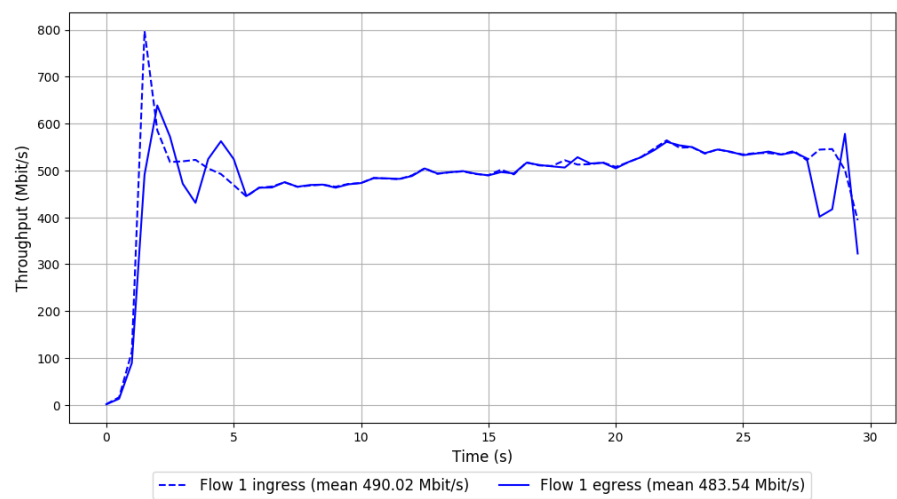
-- Flow 1:

Average throughput: 483.54 Mbit/s

95th percentile per-packet one-way delay: 168.156 ms

Loss rate: 1.68%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 15:05:31

End at: 2018-01-16 15:06:01

Below is generated by plot.py at 2018-01-16 19:36:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.55 Mbit/s

95th percentile per-packet one-way delay: 212.783 ms

Loss rate: 1.32%

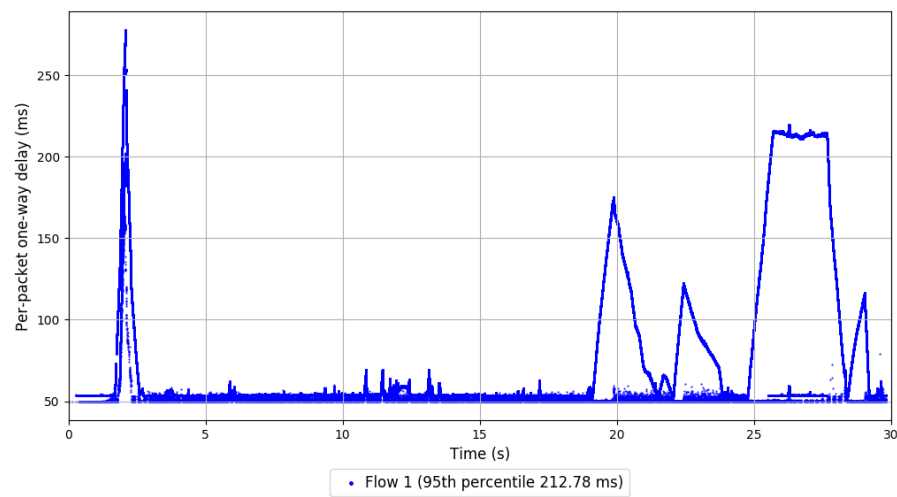
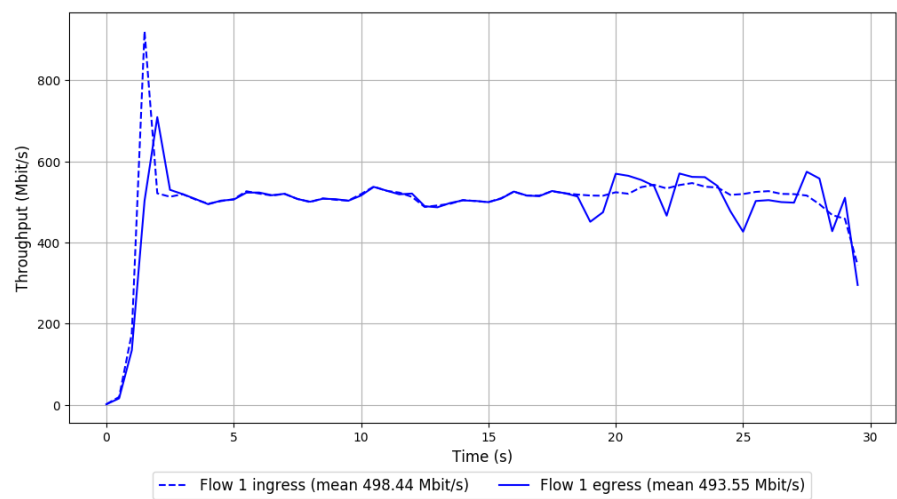
-- Flow 1:

Average throughput: 493.55 Mbit/s

95th percentile per-packet one-way delay: 212.783 ms

Loss rate: 1.32%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 15:19:51

End at: 2018-01-16 15:20:21

Below is generated by plot.py at 2018-01-16 19:36:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.23 Mbit/s

95th percentile per-packet one-way delay: 85.527 ms

Loss rate: 0.50%

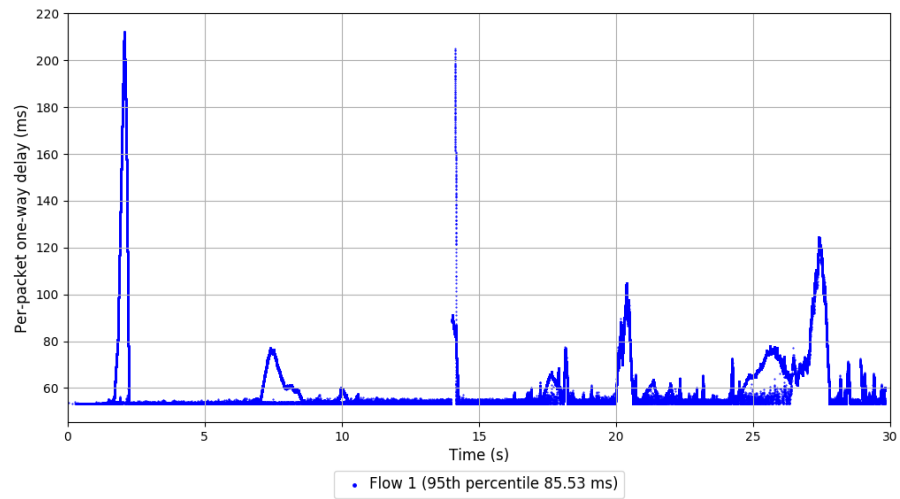
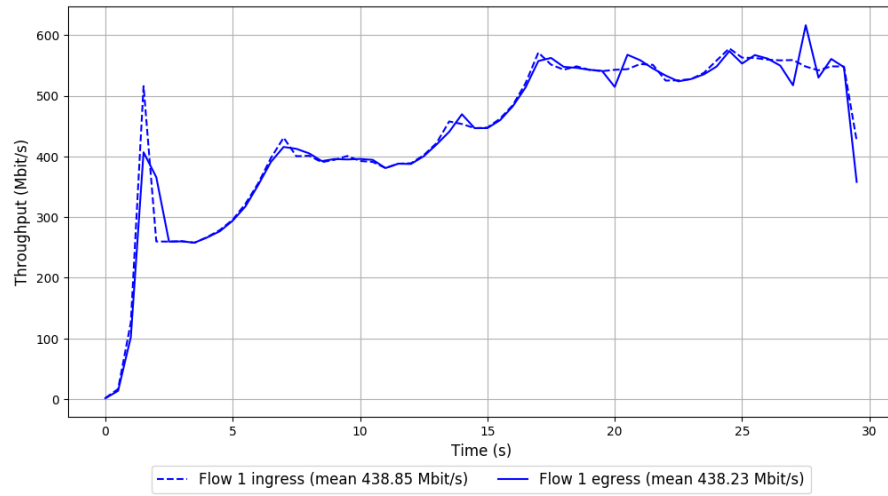
-- Flow 1:

Average throughput: 438.23 Mbit/s

95th percentile per-packet one-way delay: 85.527 ms

Loss rate: 0.50%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 15:34:14

End at: 2018-01-16 15:34:44

Below is generated by plot.py at 2018-01-16 19:37:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.72 Mbit/s

95th percentile per-packet one-way delay: 160.083 ms

Loss rate: 0.96%

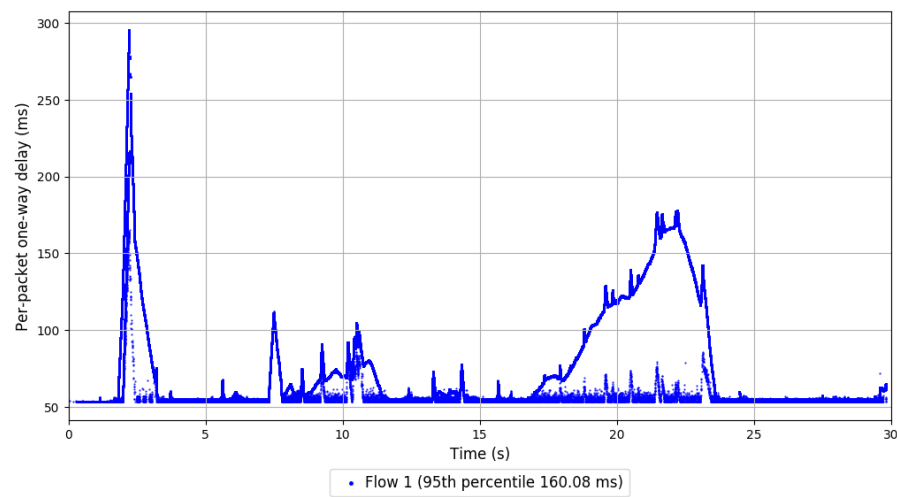
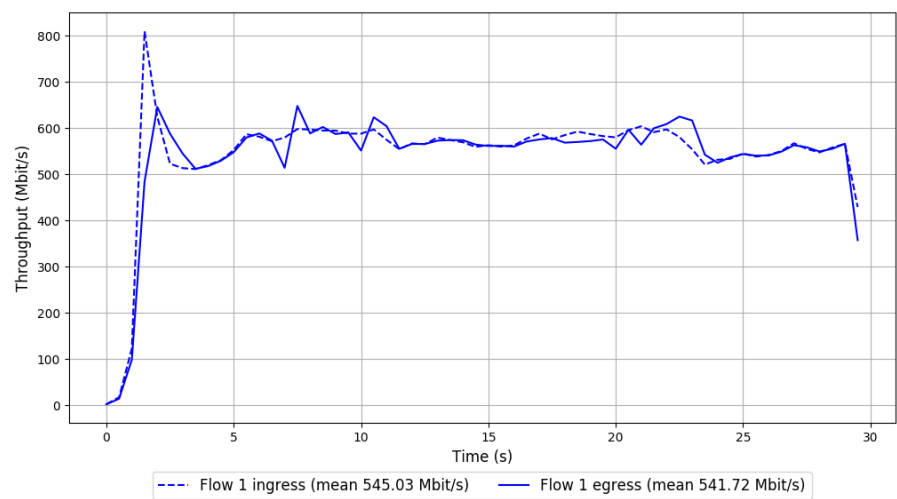
-- Flow 1:

Average throughput: 541.72 Mbit/s

95th percentile per-packet one-way delay: 160.083 ms

Loss rate: 0.96%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 15:48:08

End at: 2018-01-16 15:48:38

Below is generated by plot.py at 2018-01-16 19:37:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.33 Mbit/s

95th percentile per-packet one-way delay: 134.906 ms

Loss rate: 0.84%

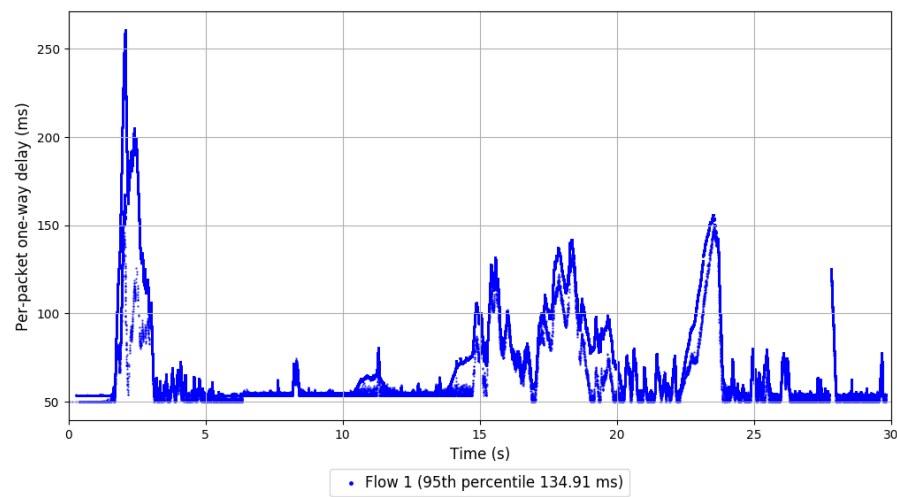
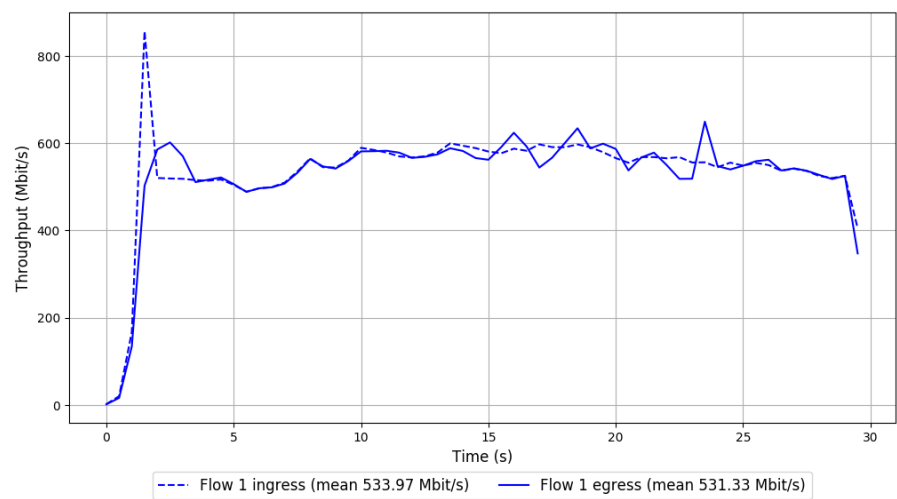
-- Flow 1:

Average throughput: 531.33 Mbit/s

95th percentile per-packet one-way delay: 134.906 ms

Loss rate: 0.84%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 16:02:19

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

Below is generated by plot.py at 2018-01-16 19:37:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.12 Mbit/s

95th percentile per-packet one-way delay: 103.271 ms

Loss rate: 0.84%

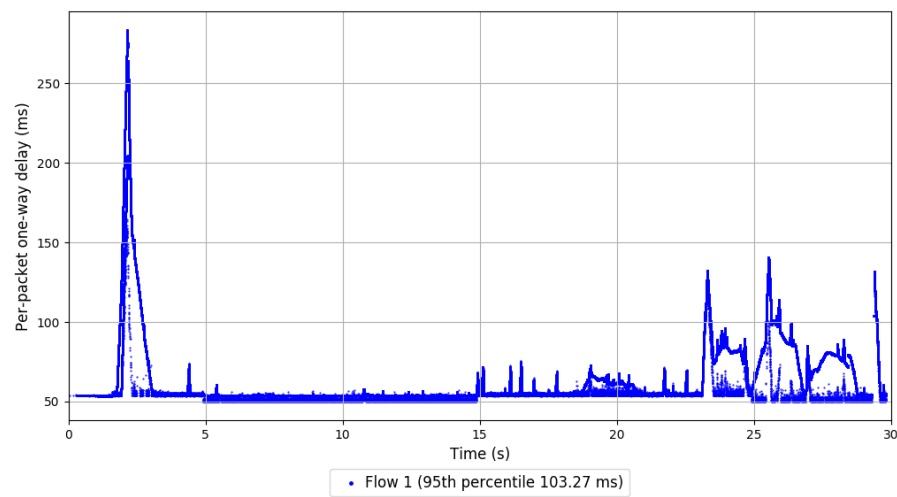
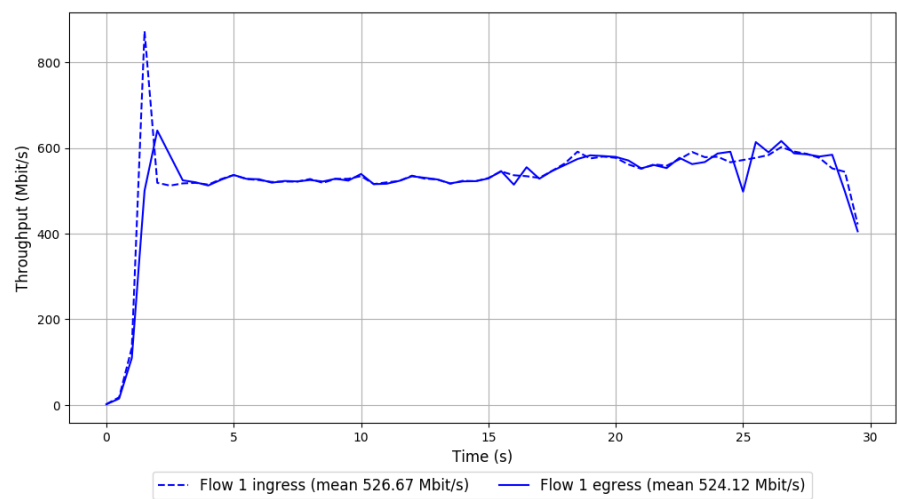
-- Flow 1:

Average throughput: 524.12 Mbit/s

95th percentile per-packet one-way delay: 103.271 ms

Loss rate: 0.84%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-16 16:16:34

End at: 2018-01-16 16:17:04

Below is generated by plot.py at 2018-01-16 19:38:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.86 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 0.77%

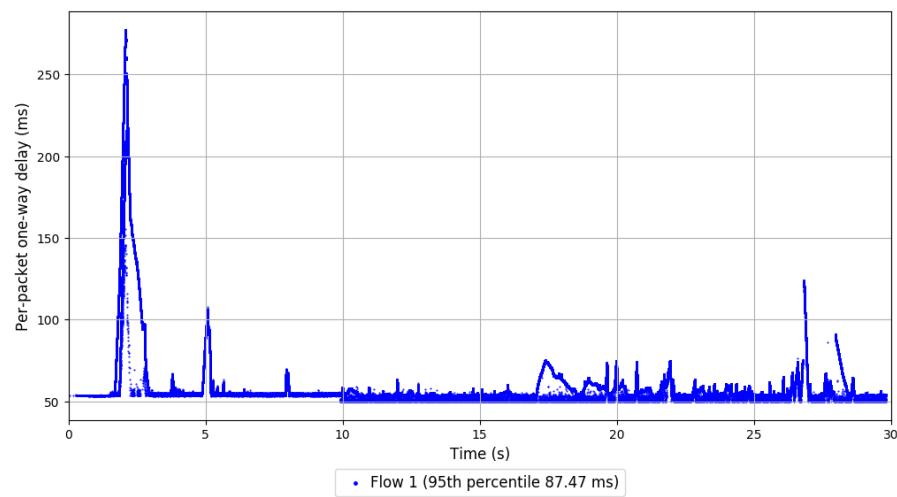
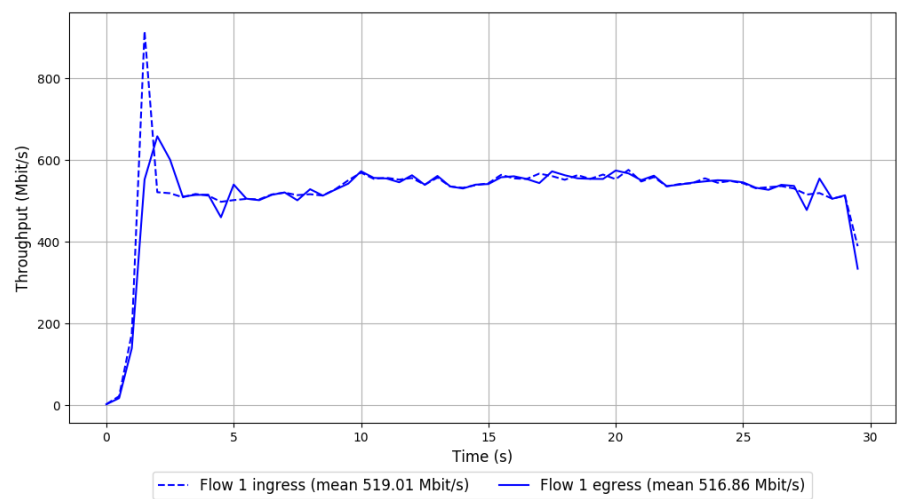
-- Flow 1:

Average throughput: 516.86 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 0.77%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-16 16:30:42

End at: 2018-01-16 16:31:12

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.90 Mbit/s

95th percentile per-packet one-way delay: 122.188 ms

Loss rate: 2.13%

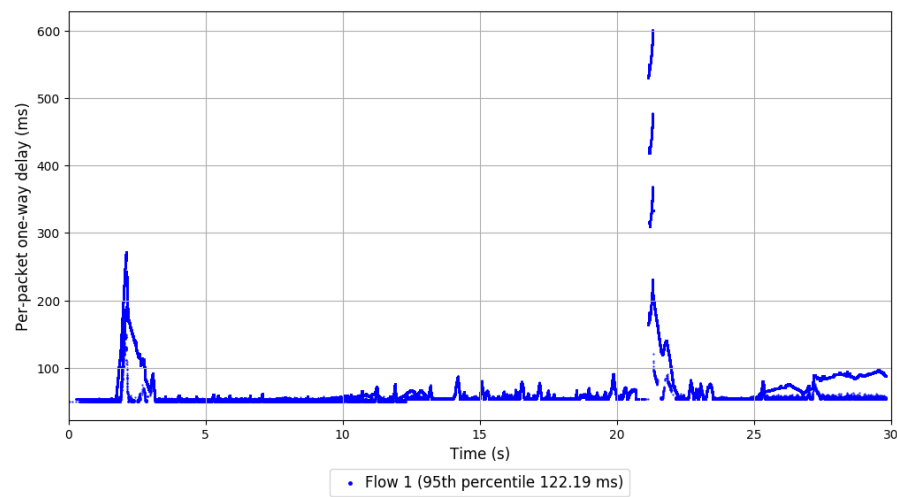
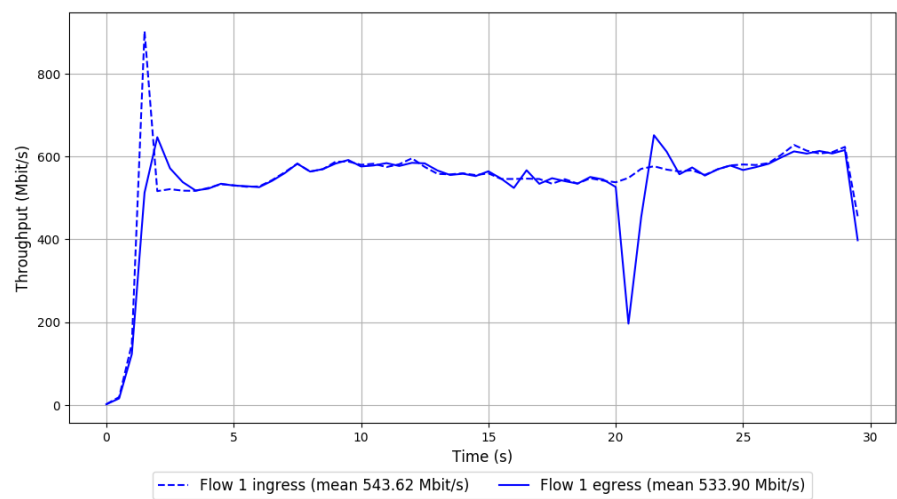
-- Flow 1:

Average throughput: 533.90 Mbit/s

95th percentile per-packet one-way delay: 122.188 ms

Loss rate: 2.13%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 16:44:51

End at: 2018-01-16 16:45:21

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.31 Mbit/s

95th percentile per-packet one-way delay: 172.305 ms

Loss rate: 0.99%

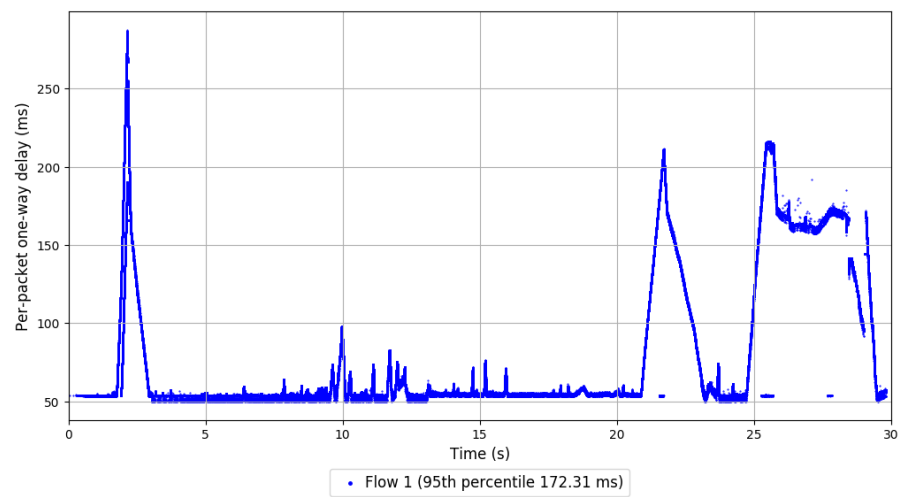
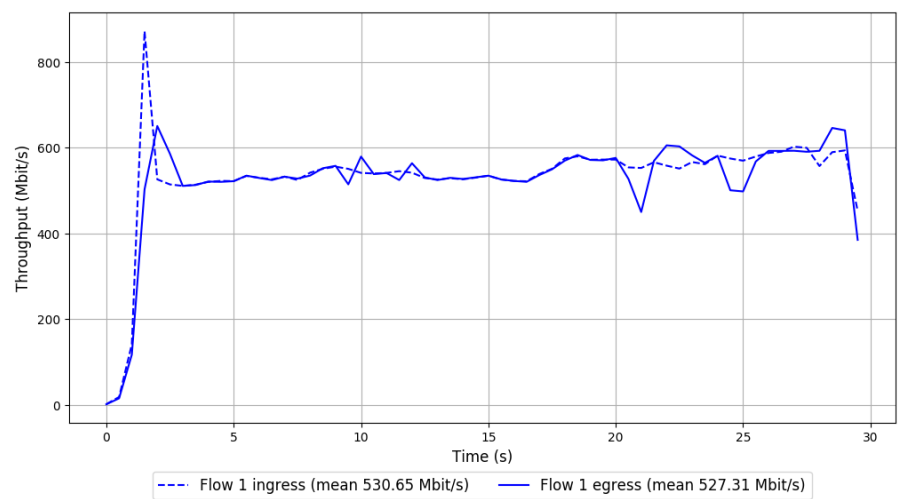
-- Flow 1:

Average throughput: 527.31 Mbit/s

95th percentile per-packet one-way delay: 172.305 ms

Loss rate: 0.99%

Run 10: Report of PCC — Data Link

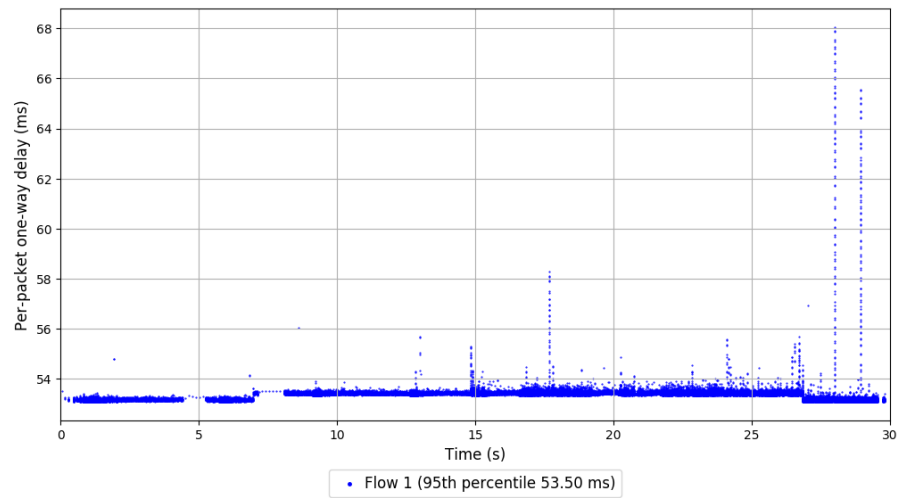
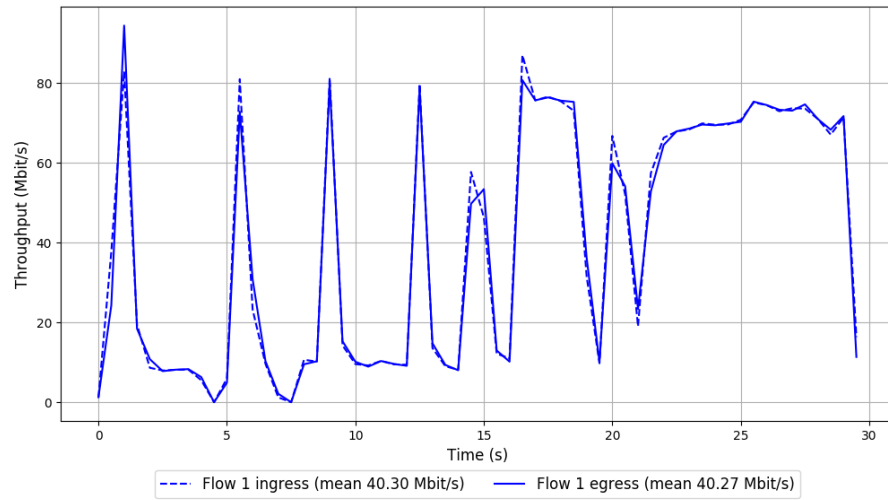


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 14:43:37
End at: 2018-01-16 14:44:07

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.27 Mbit/s
95th percentile per-packet one-way delay: 53.496 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 40.27 Mbit/s
95th percentile per-packet one-way delay: 53.496 ms
Loss rate: 0.44%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 14:57:24

End at: 2018-01-16 14:57:54

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.75 Mbit/s

95th percentile per-packet one-way delay: 53.507 ms

Loss rate: 0.71%

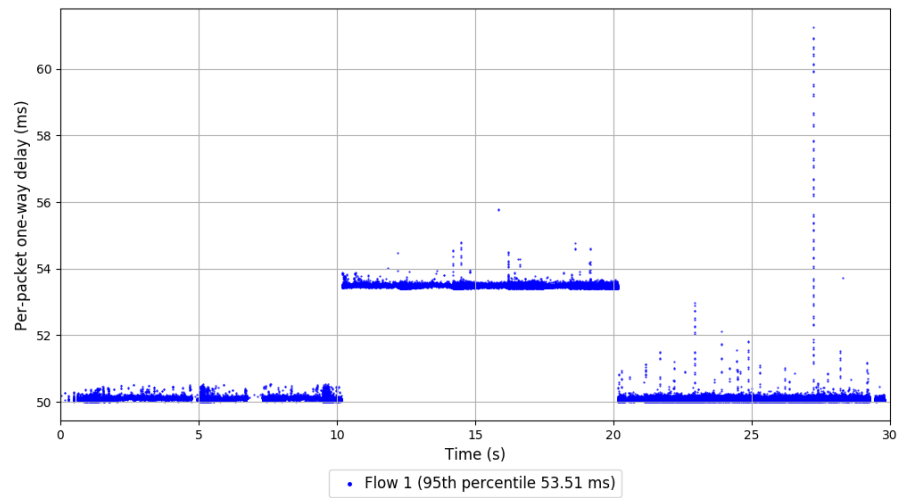
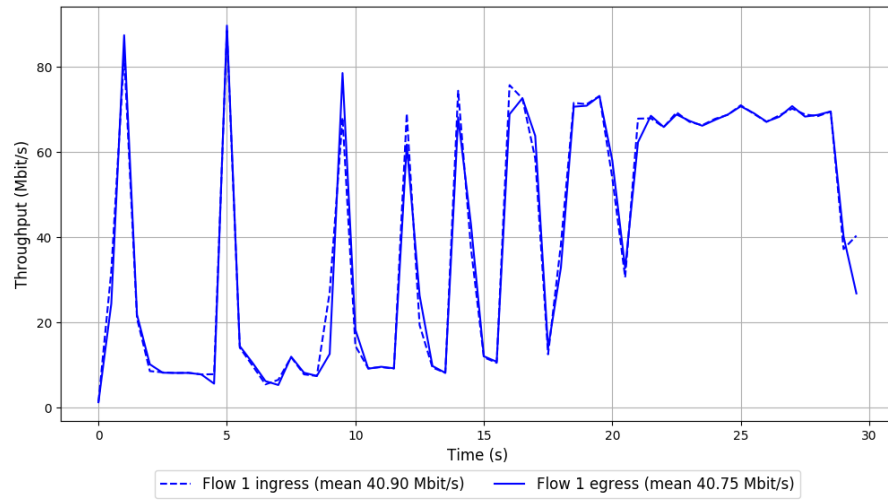
-- Flow 1:

Average throughput: 40.75 Mbit/s

95th percentile per-packet one-way delay: 53.507 ms

Loss rate: 0.71%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 15:11:57

End at: 2018-01-16 15:12:27

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 53.456 ms

Loss rate: 0.70%

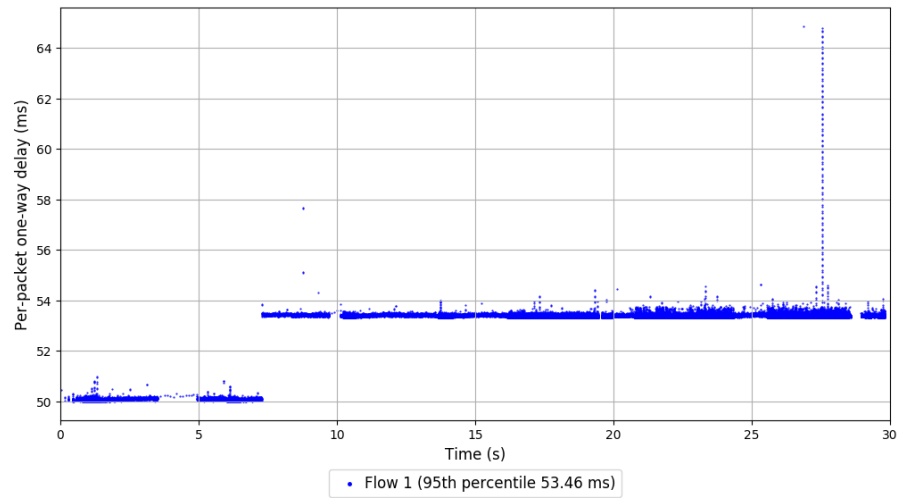
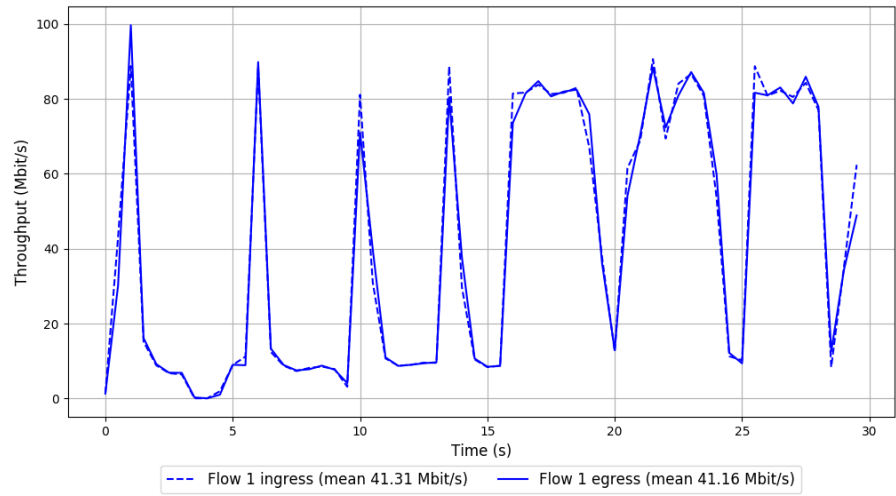
-- Flow 1:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 53.456 ms

Loss rate: 0.70%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 15:26:05

End at: 2018-01-16 15:26:35

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.55%

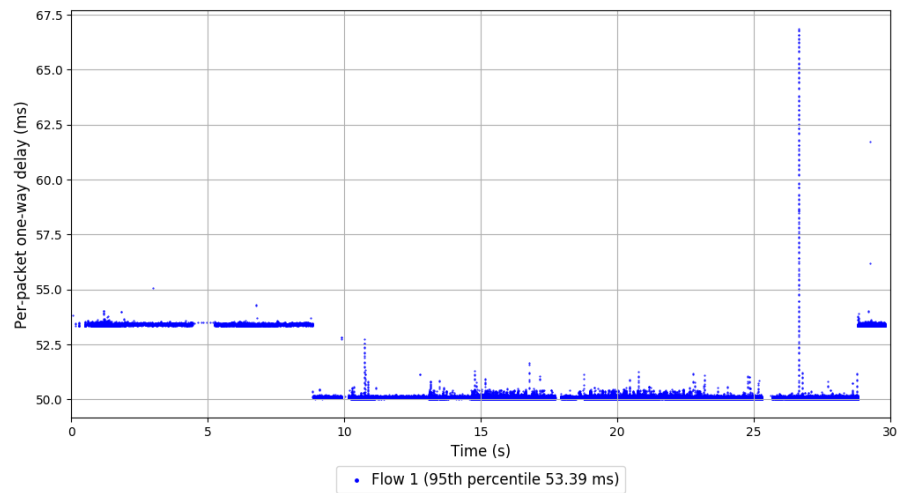
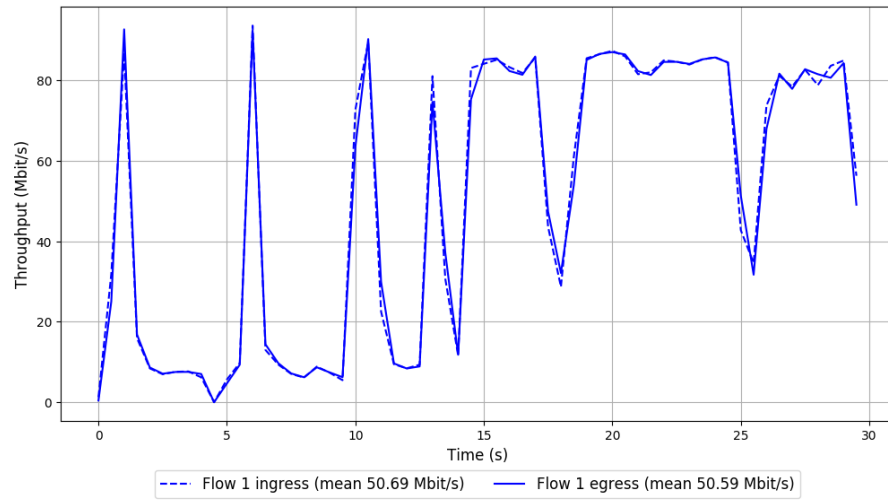
-- Flow 1:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.55%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 15:40:46

End at: 2018-01-16 15:41:16

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.47 Mbit/s

95th percentile per-packet one-way delay: 53.402 ms

Loss rate: 0.54%

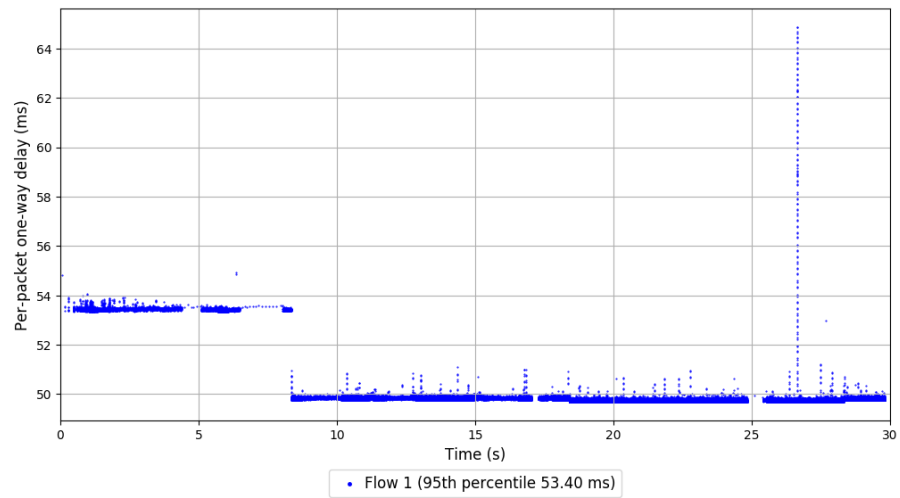
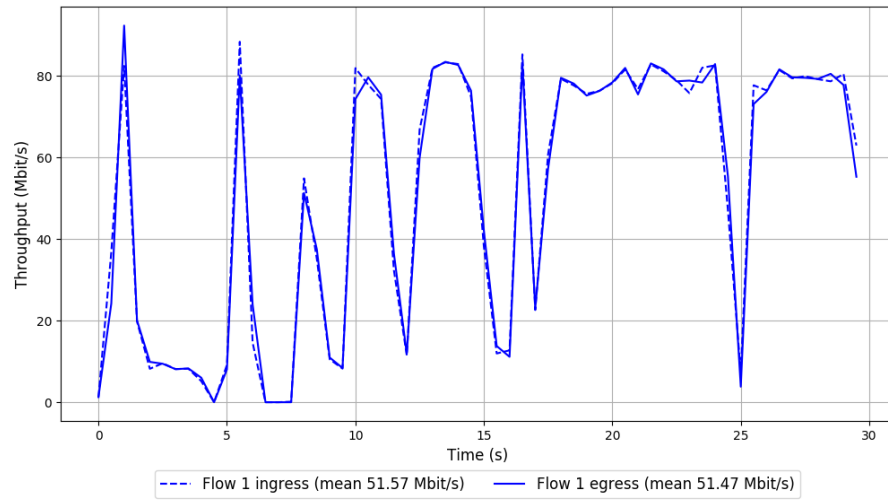
-- Flow 1:

Average throughput: 51.47 Mbit/s

95th percentile per-packet one-way delay: 53.402 ms

Loss rate: 0.54%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 15:54:34

End at: 2018-01-16 15:55:04

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.19 Mbit/s

95th percentile per-packet one-way delay: 53.469 ms

Loss rate: 0.59%

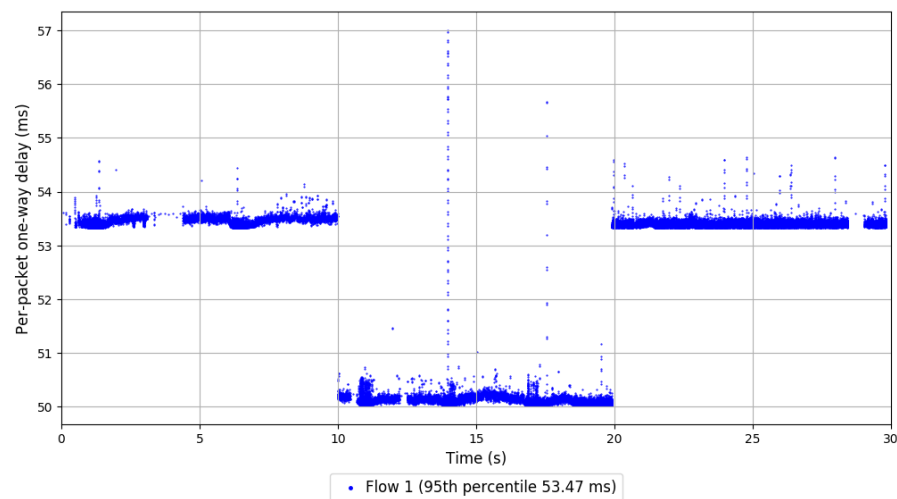
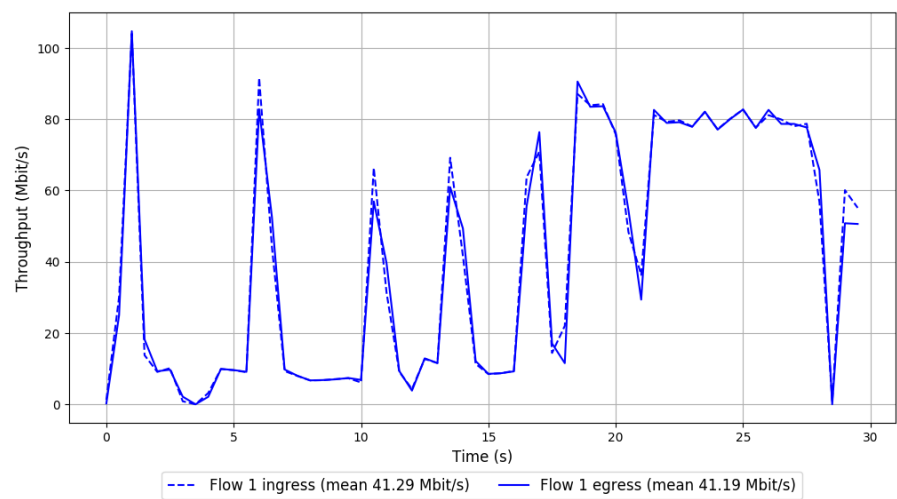
-- Flow 1:

Average throughput: 41.19 Mbit/s

95th percentile per-packet one-way delay: 53.469 ms

Loss rate: 0.59%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 16:08:50

End at: 2018-01-16 16:09:20

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.46 Mbit/s

95th percentile per-packet one-way delay: 53.529 ms

Loss rate: 0.51%

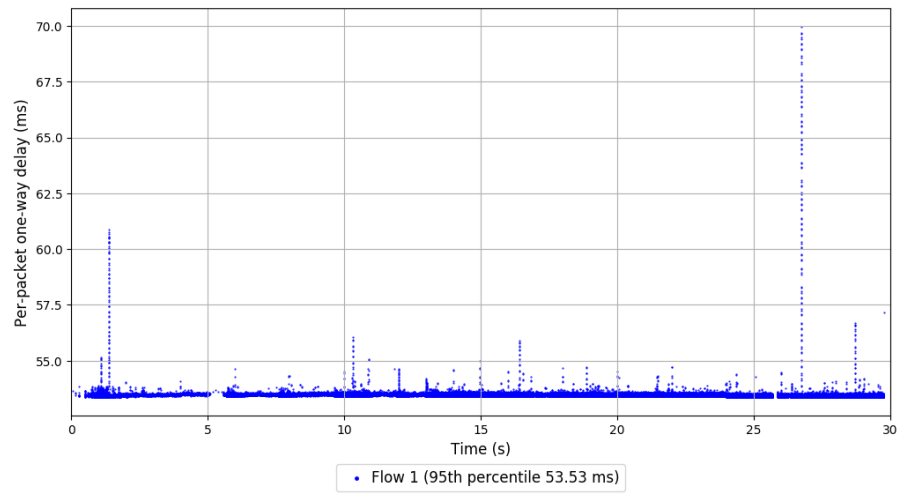
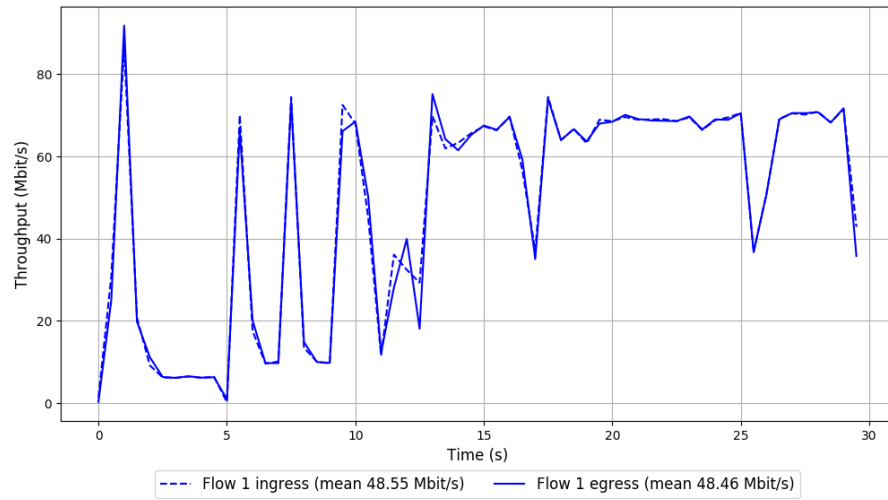
-- Flow 1:

Average throughput: 48.46 Mbit/s

95th percentile per-packet one-way delay: 53.529 ms

Loss rate: 0.51%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 16:23:00

End at: 2018-01-16 16:23:30

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.43%

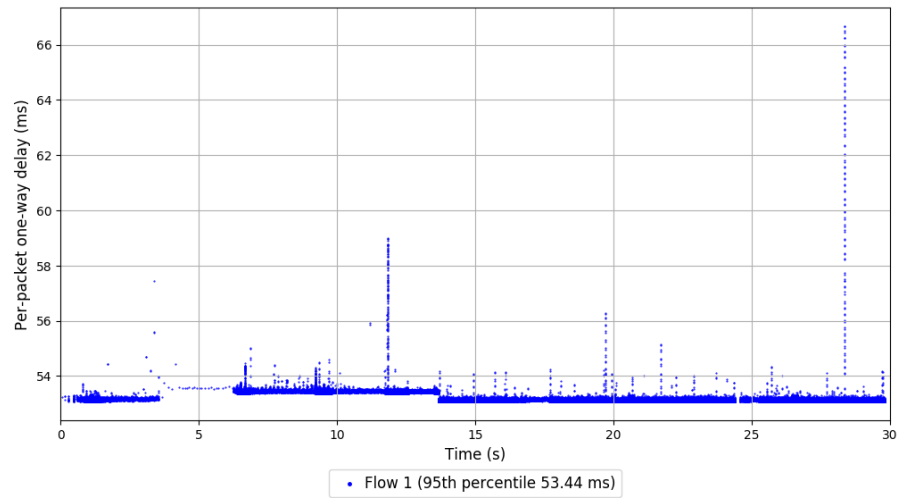
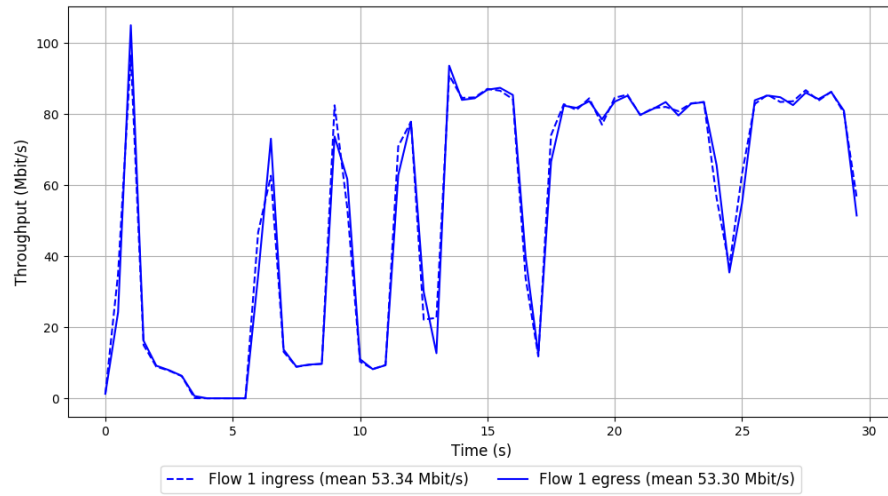
-- Flow 1:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.43%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 16:37:10

End at: 2018-01-16 16:37:40

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.06 Mbit/s

95th percentile per-packet one-way delay: 53.537 ms

Loss rate: 0.53%

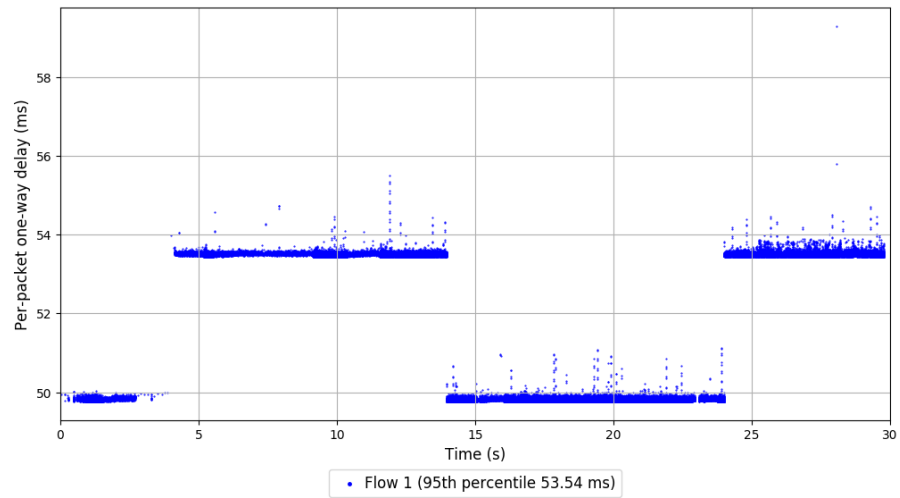
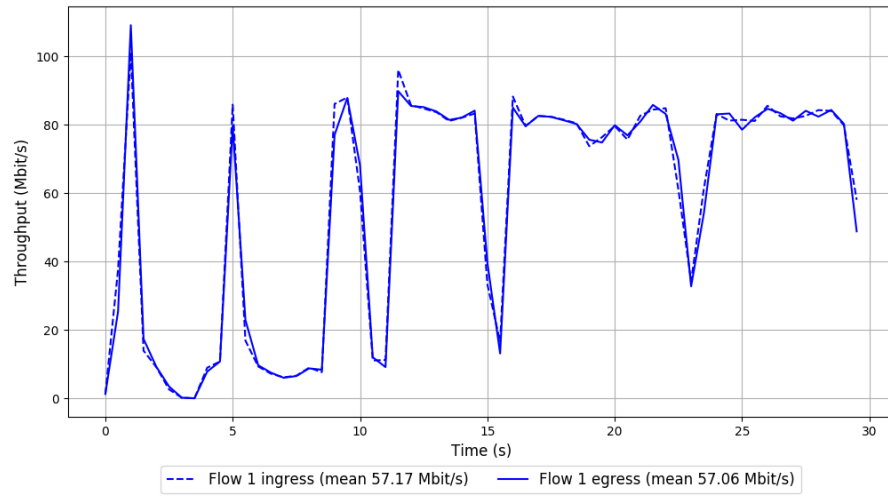
-- Flow 1:

Average throughput: 57.06 Mbit/s

95th percentile per-packet one-way delay: 53.537 ms

Loss rate: 0.53%

Run 9: Report of QUIC Cubic — Data Link

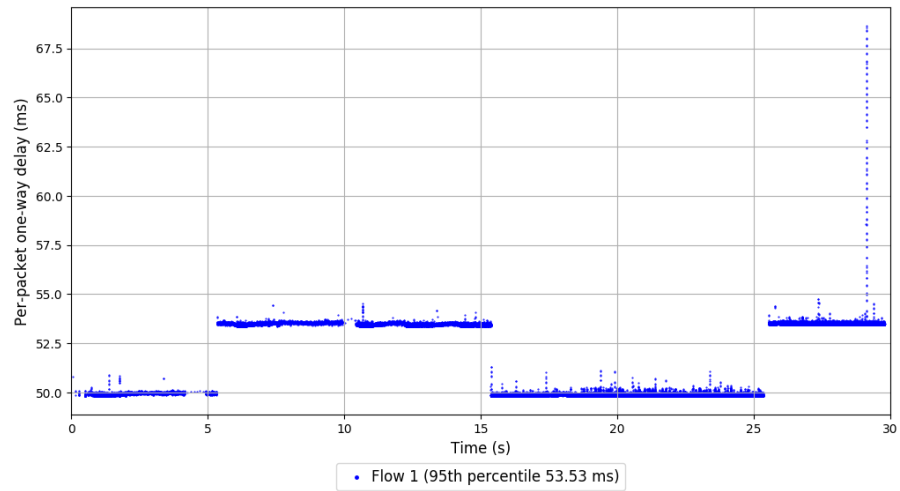
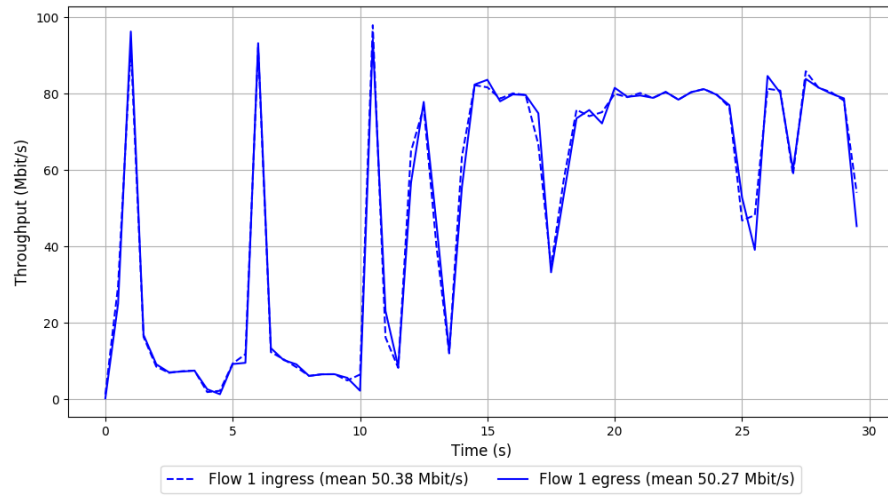


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 16:51:19
End at: 2018-01-16 16:51:49

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 53.531 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 53.531 ms
Loss rate: 0.57%
```

Run 10: Report of QUIC Cubic — Data Link

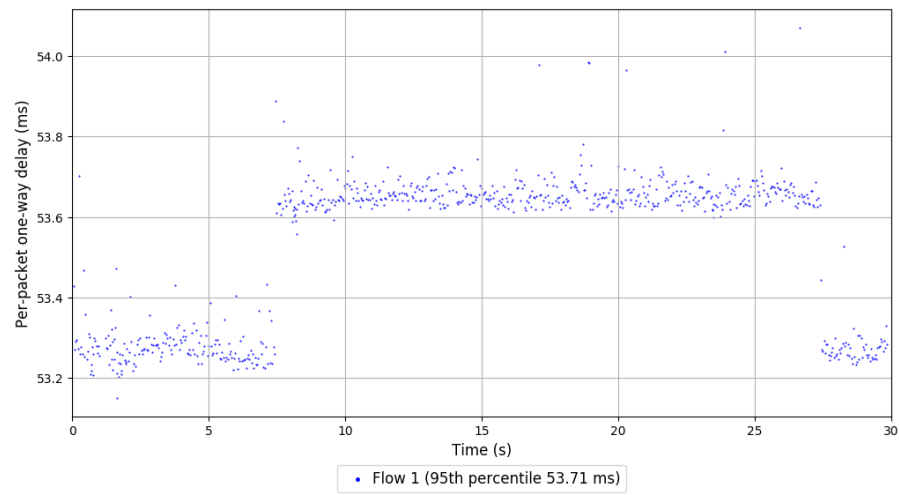
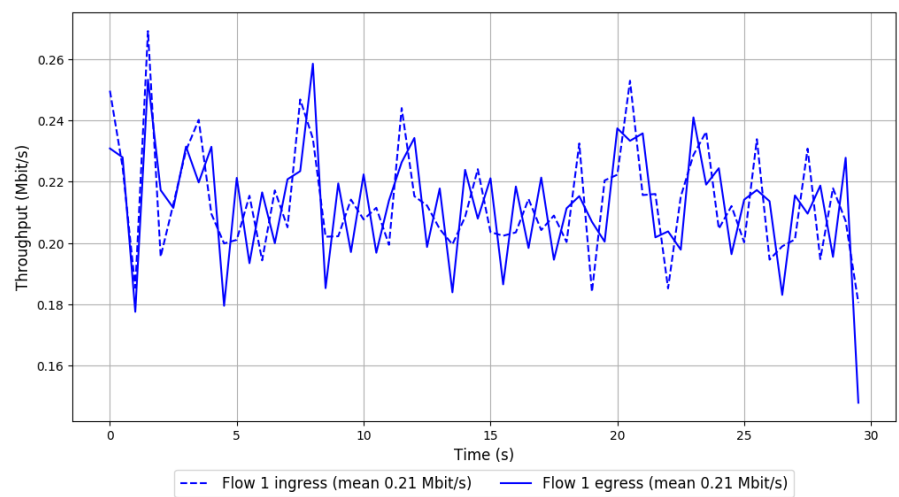


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 14:44:17
End at: 2018-01-16 14:44:47

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.706 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.706 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

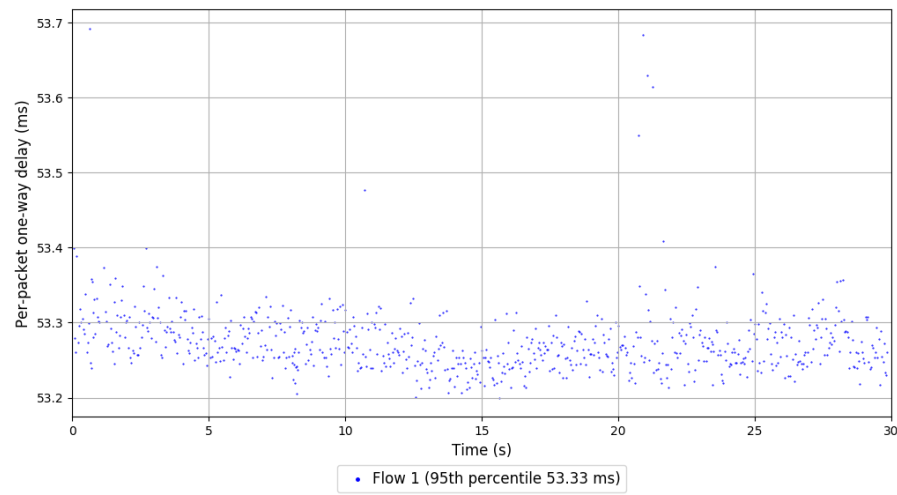
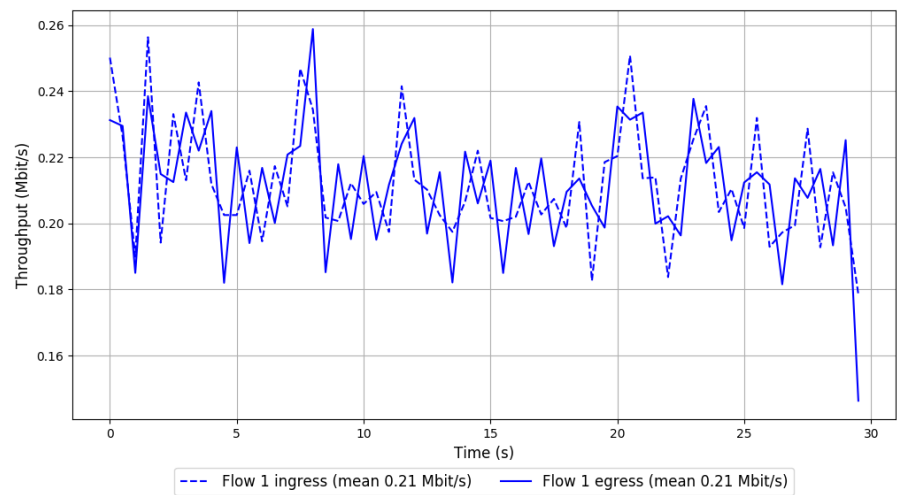


```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 14:58:04
End at: 2018-01-16 14:58:34

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.331 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.331 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-16 15:12:36

End at: 2018-01-16 15:13:06

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.38%

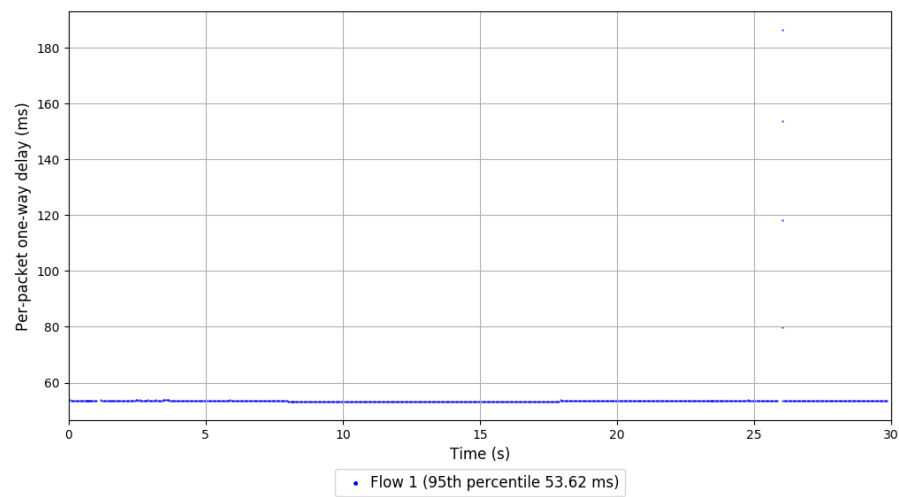
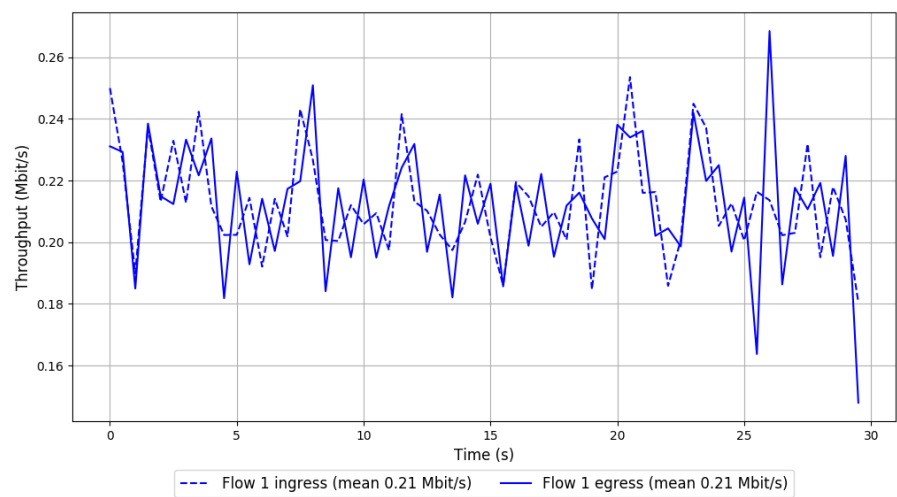
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-16 15:26:45

End at: 2018-01-16 15:27:15

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.38%

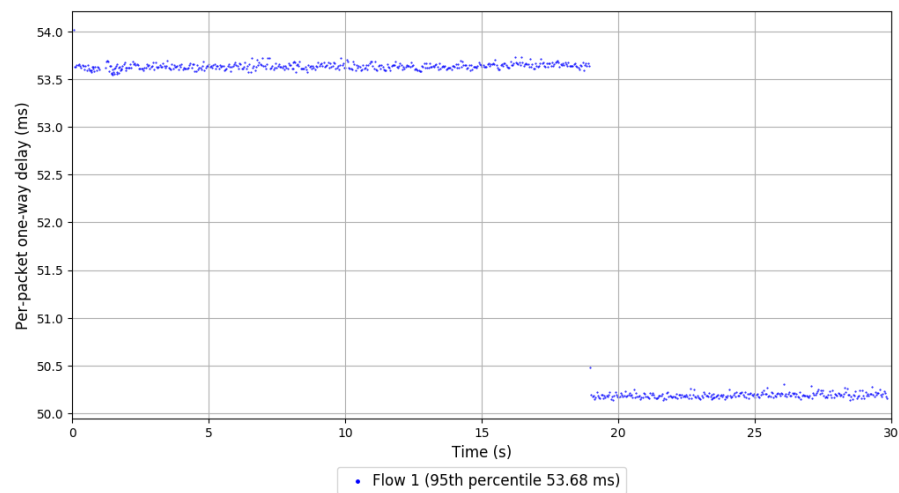
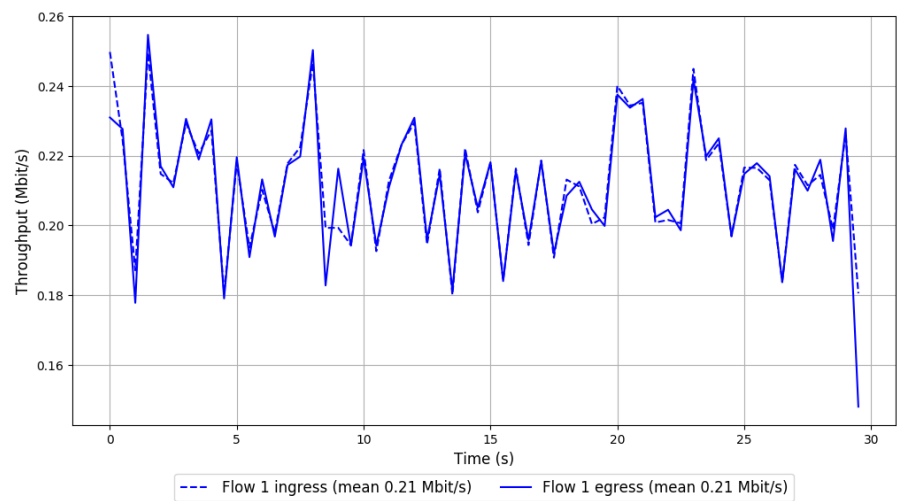
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-16 15:41:26

End at: 2018-01-16 15:41:56

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.660 ms

Loss rate: 0.38%

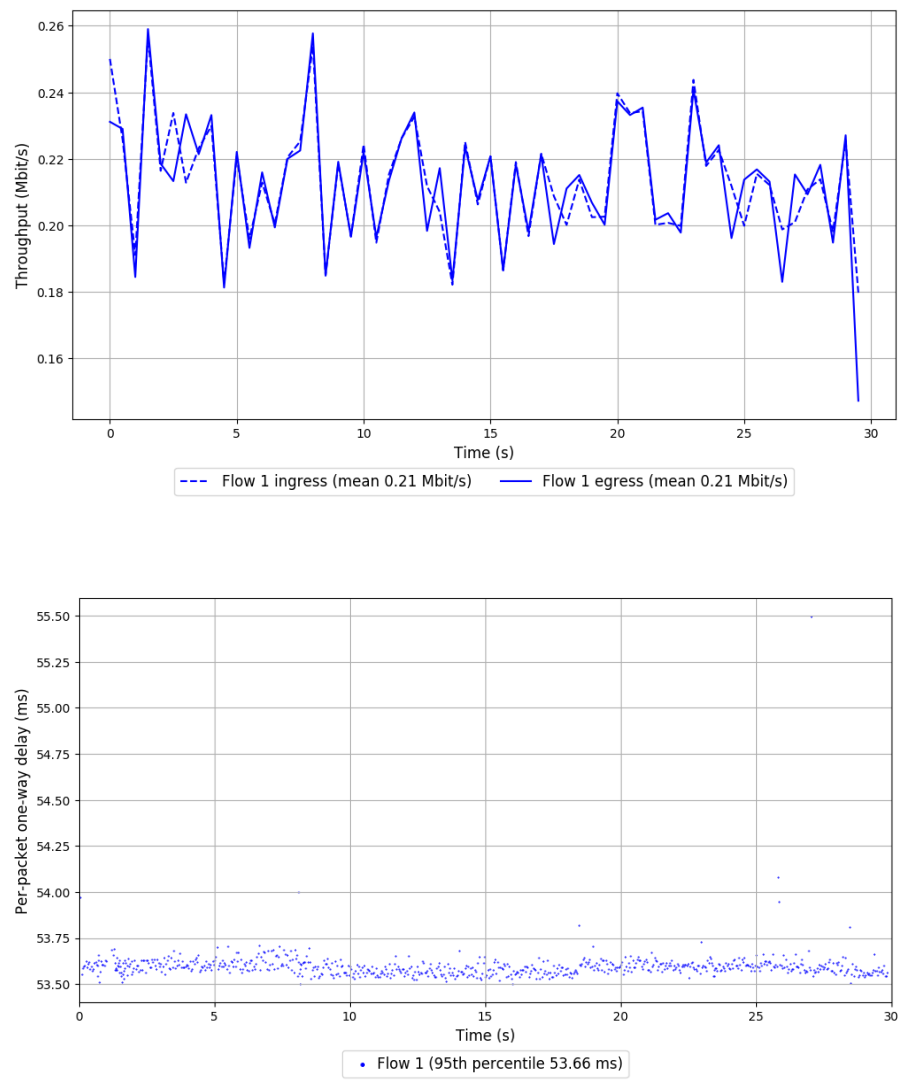
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.660 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-16 15:55:14

End at: 2018-01-16 15:55:44

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.948 ms

Loss rate: 0.38%

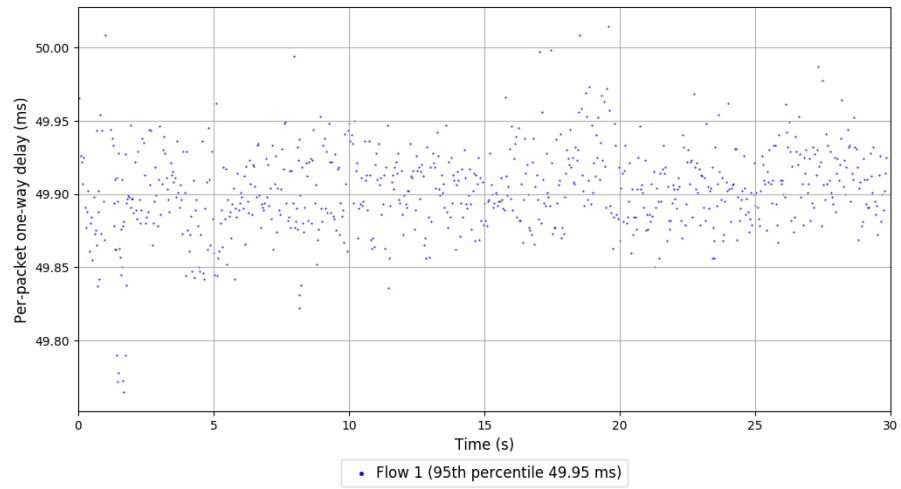
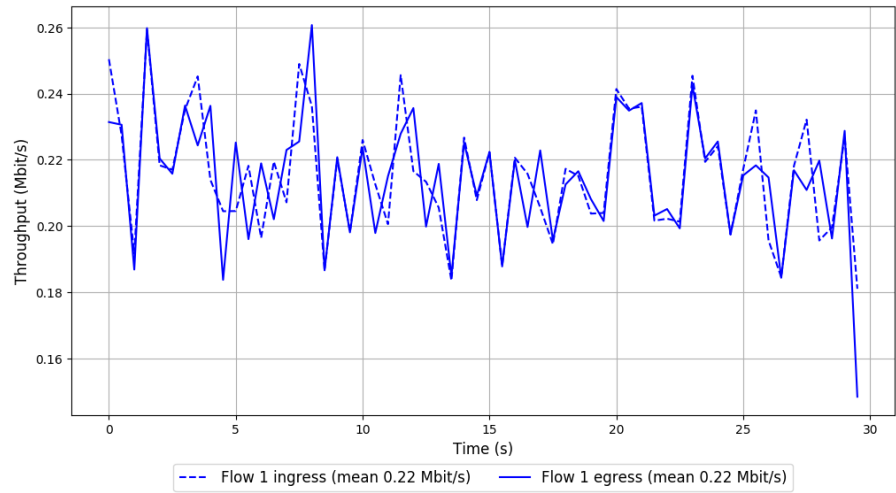
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.948 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link

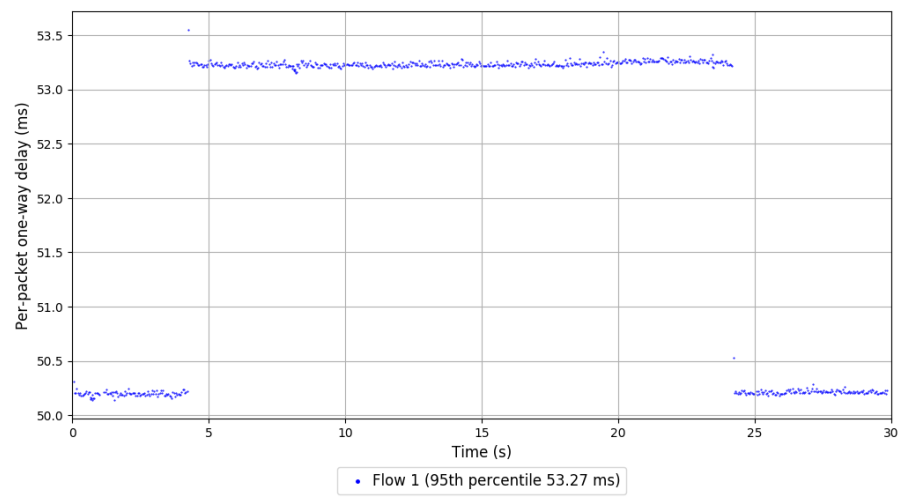
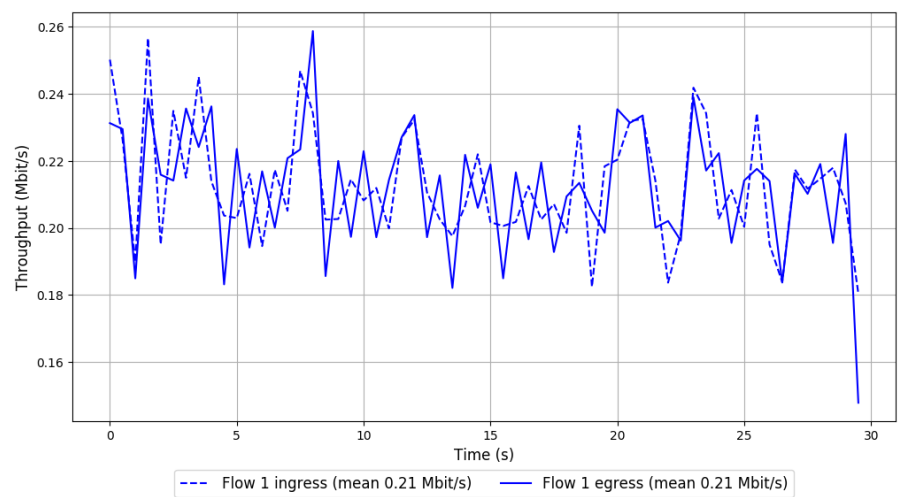


```
Run 7: Statistics of SCReAM

Start at: 2018-01-16 16:09:30
End at: 2018-01-16 16:10:00

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.269 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.269 ms
Loss rate: 0.38%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-16 16:23:41

End at: 2018-01-16 16:24:11

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.612 ms

Loss rate: 0.38%

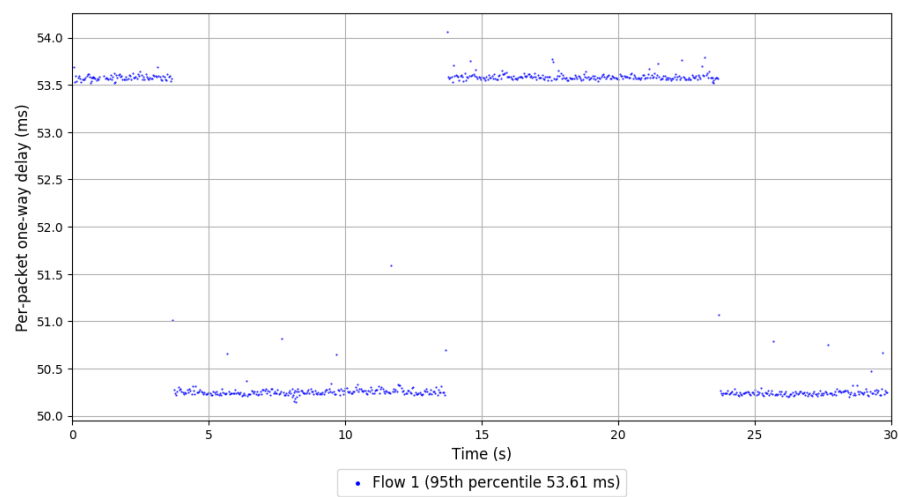
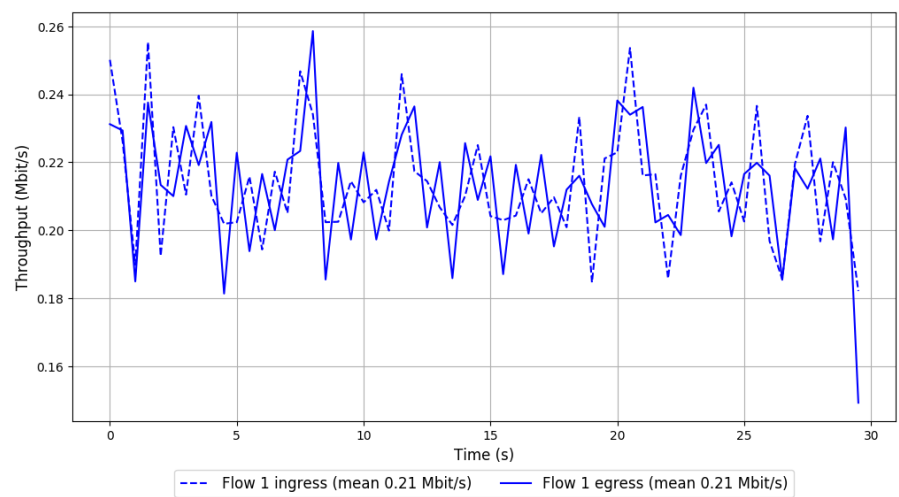
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.612 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-16 16:37:51

End at: 2018-01-16 16:38:21

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.052 ms

Loss rate: 0.38%

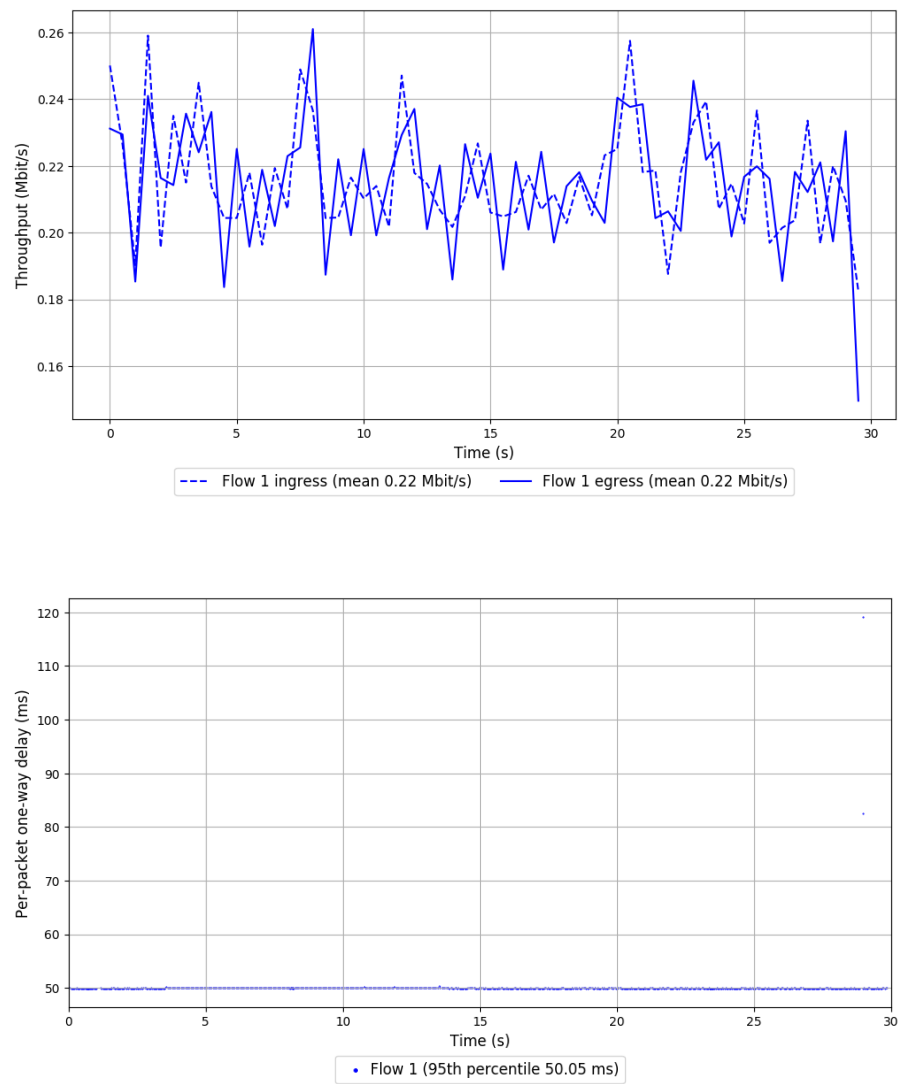
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.052 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

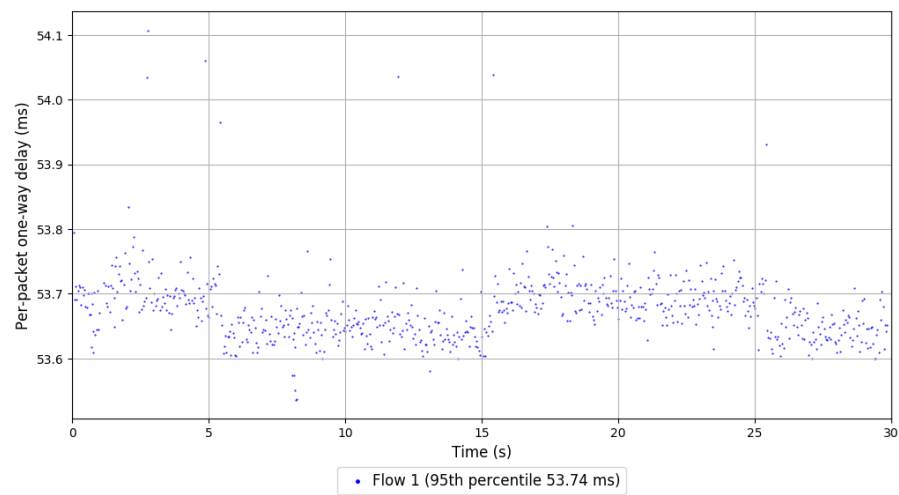
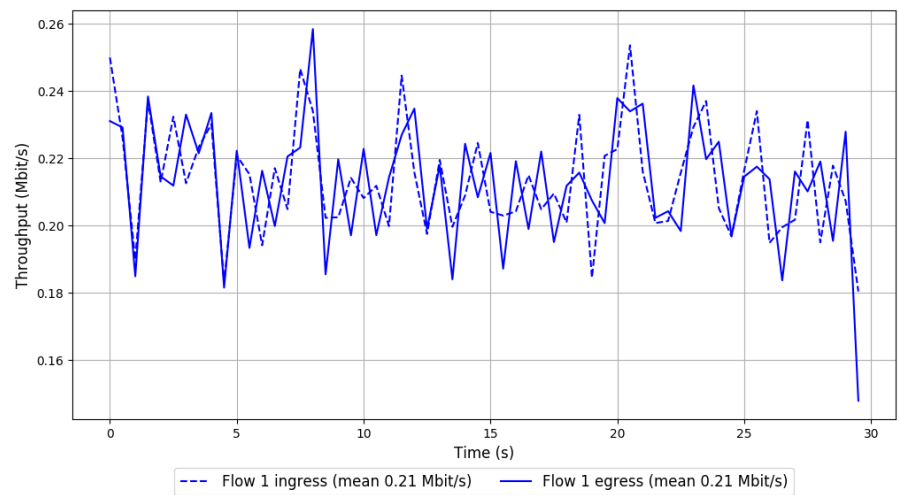


```
Run 10: Statistics of SReAM

Start at: 2018-01-16 16:51:59
End at: 2018-01-16 16:52:29

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.743 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.743 ms
Loss rate: 0.38%
```

Run 10: Report of SReAM — Data Link

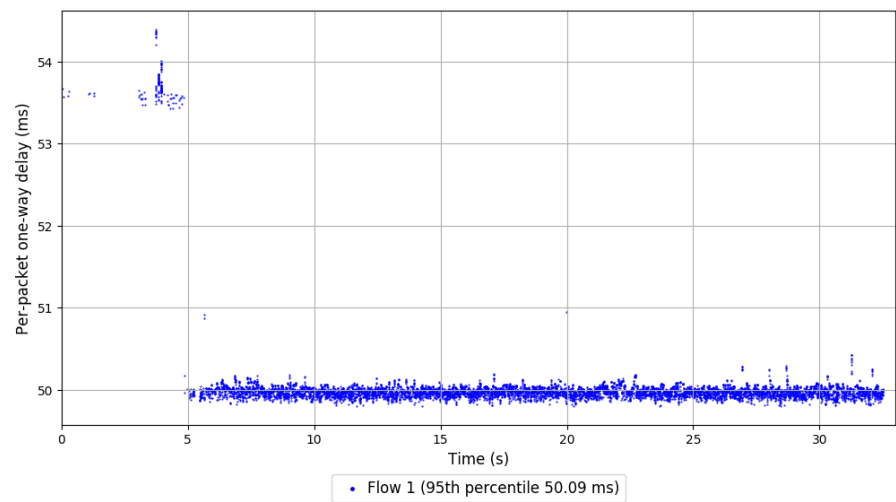
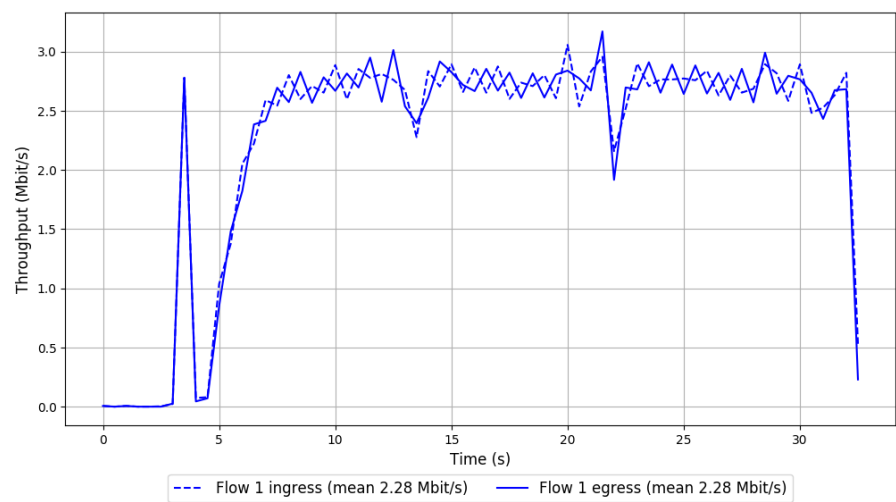


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 14:40:22
End at: 2018-01-16 14:40:52

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.088 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.088 ms
Loss rate: 0.44%
```


Run 1: Report of WebRTC media — Data Link

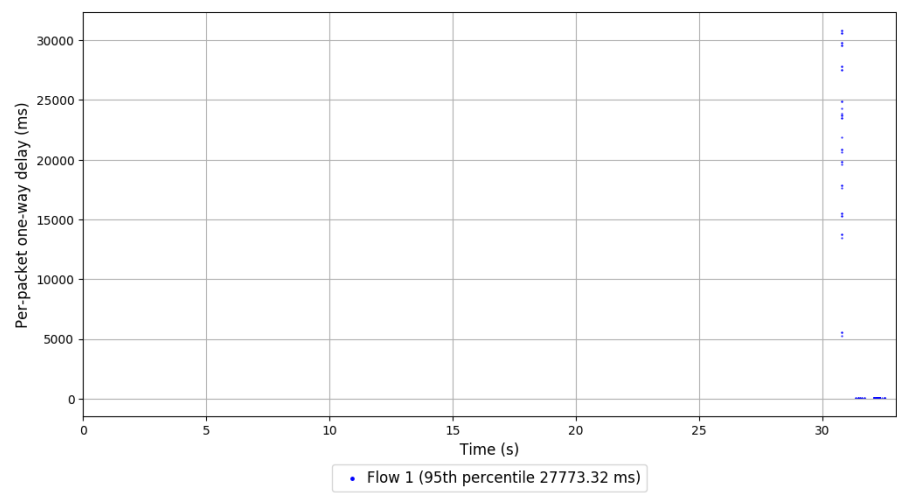
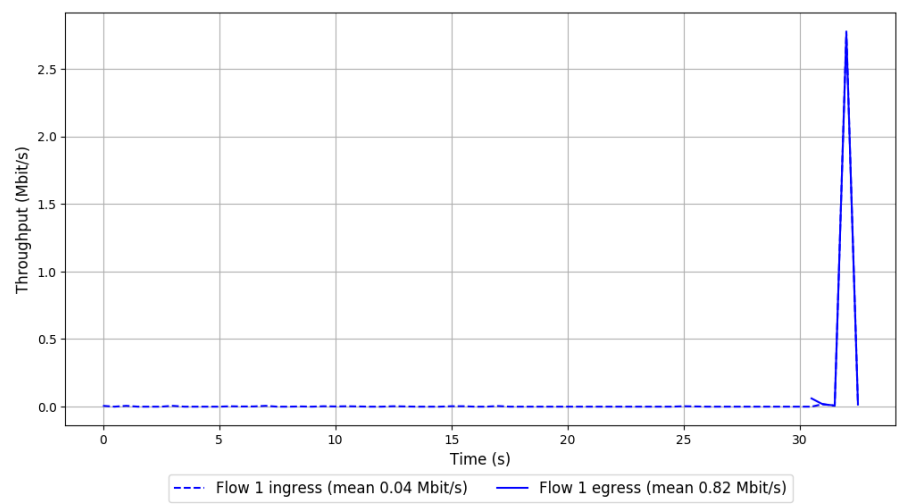


Run 2: Statistics of WebRTC media

Start at: 2018-01-16 14:54:02

End at: 2018-01-16 14:54:32

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 15:08:35

End at: 2018-01-16 15:09:05

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 49.994 ms

Loss rate: 0.45%

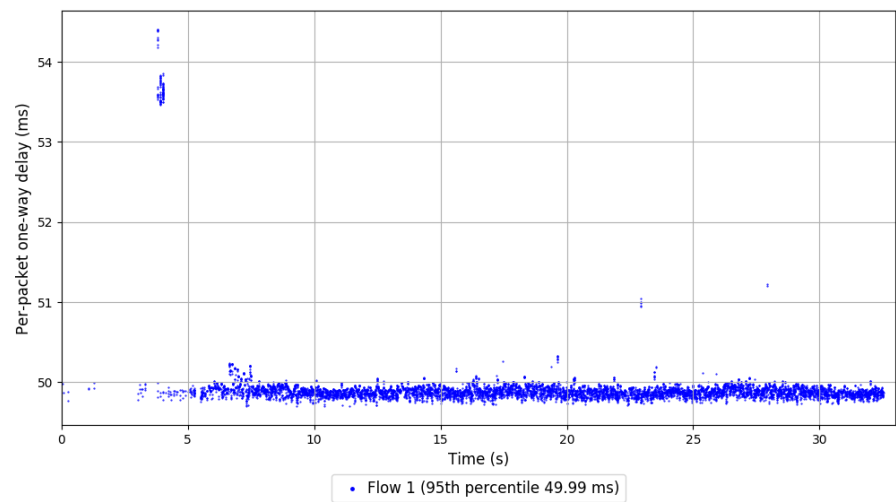
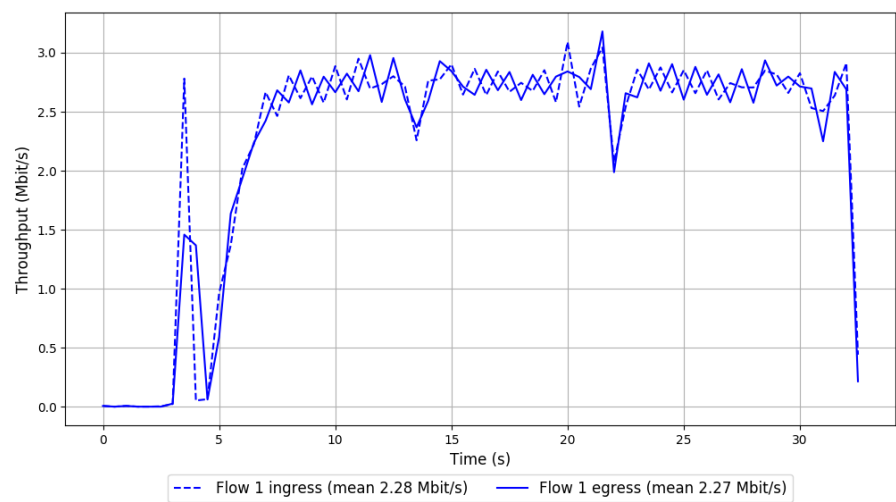
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 49.994 ms

Loss rate: 0.45%

Run 3: Report of WebRTC media — Data Link

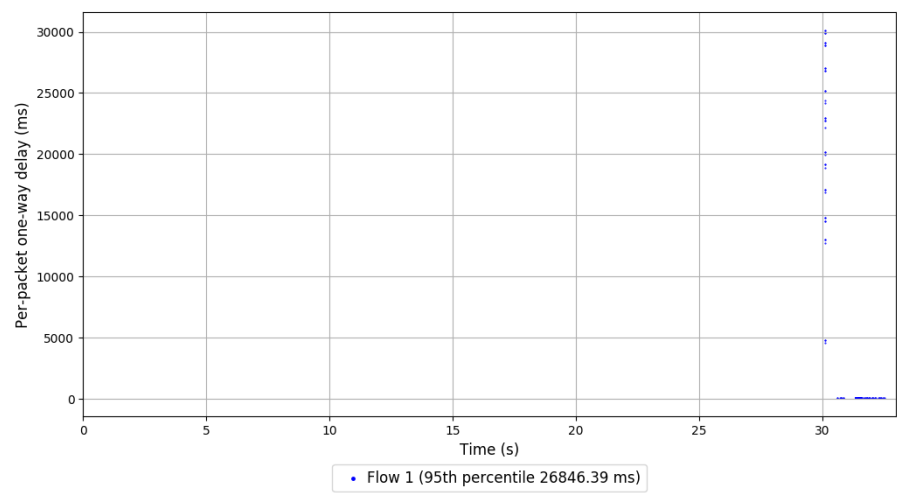
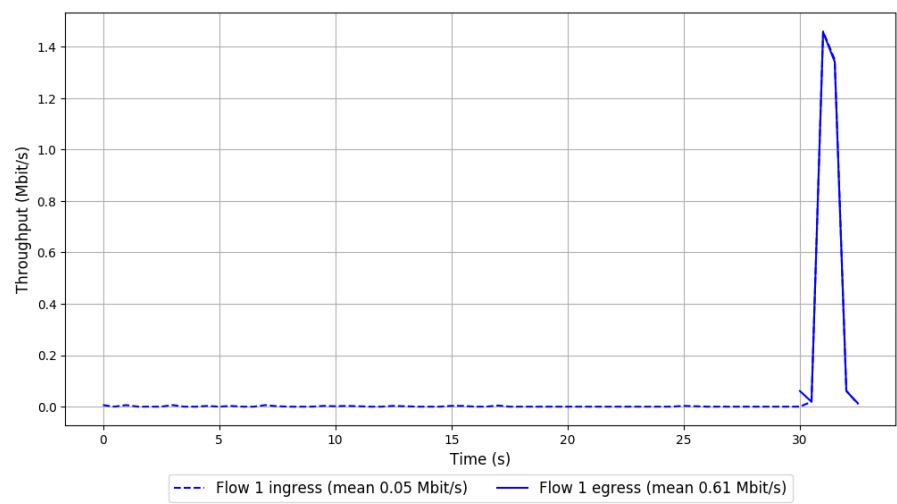


Run 4: Statistics of WebRTC media

Start at: 2018-01-16 15:22:55

End at: 2018-01-16 15:23:25

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 15:37:22

End at: 2018-01-16 15:37:52

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 0.35%

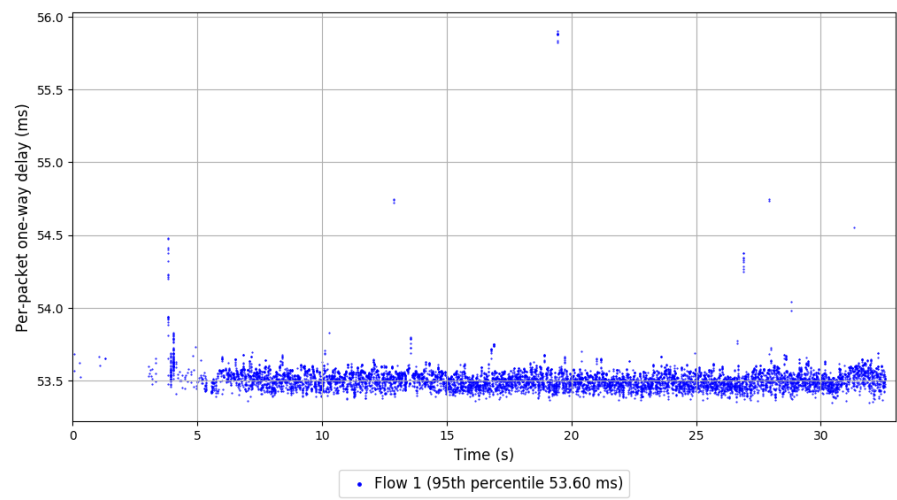
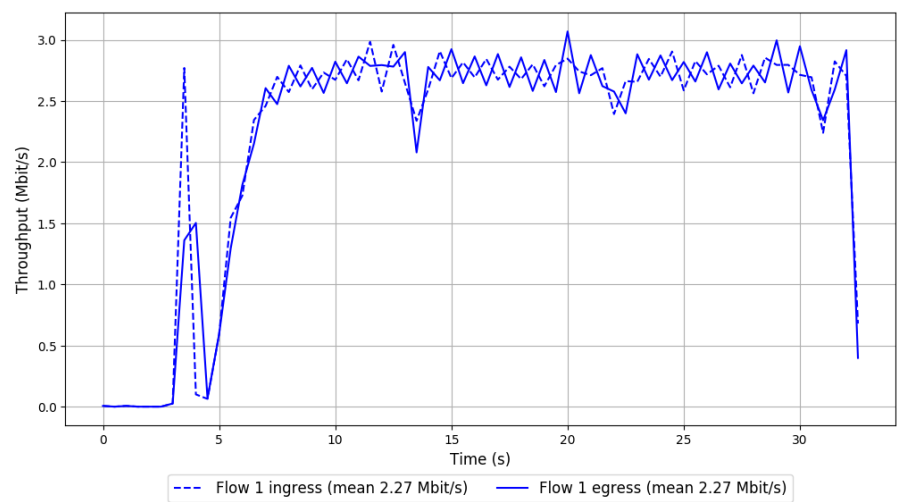
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 0.35%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-16 15:51:14

End at: 2018-01-16 15:51:44

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.672 ms

Loss rate: 0.45%

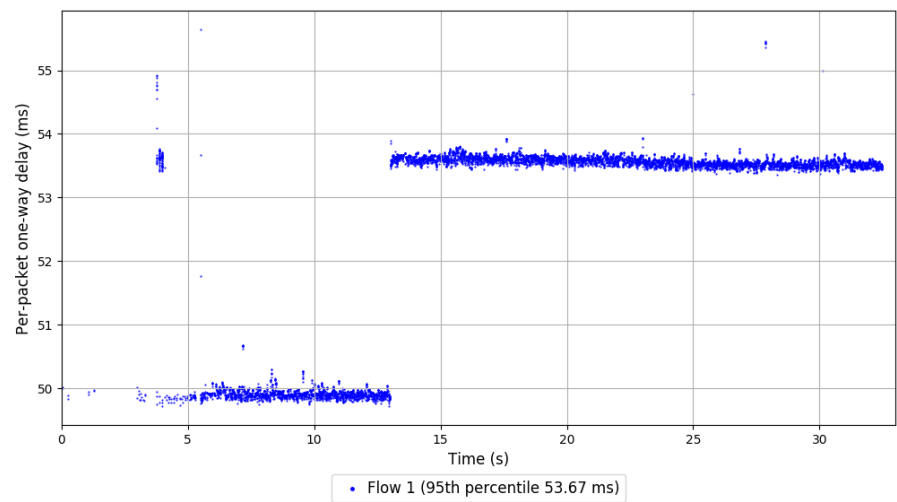
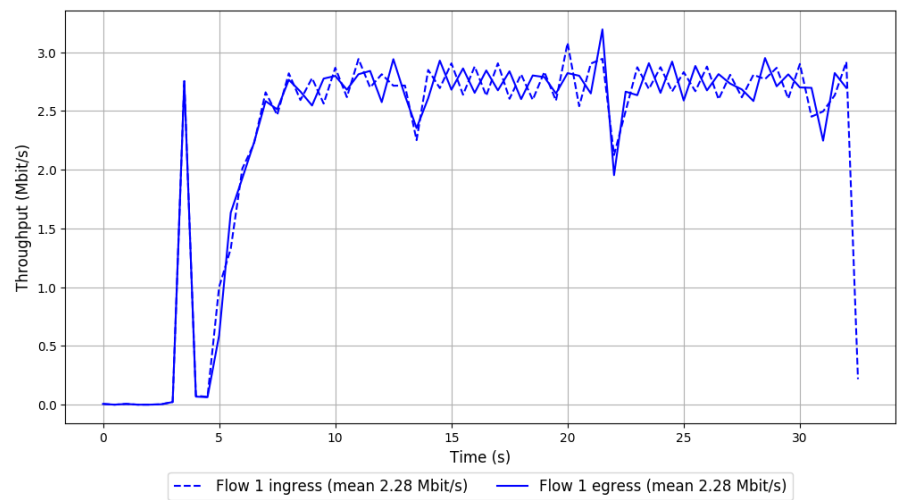
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.672 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-16 16:05:29

End at: 2018-01-16 16:05:59

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.308 ms

Loss rate: 0.45%

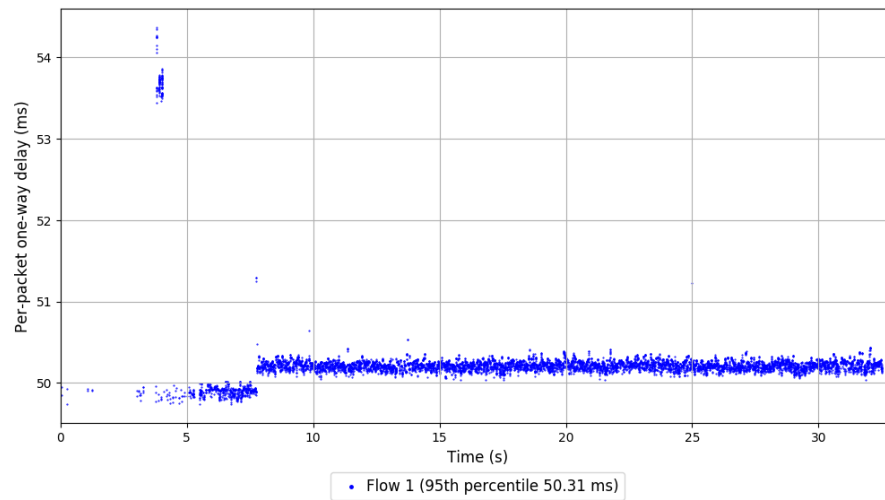
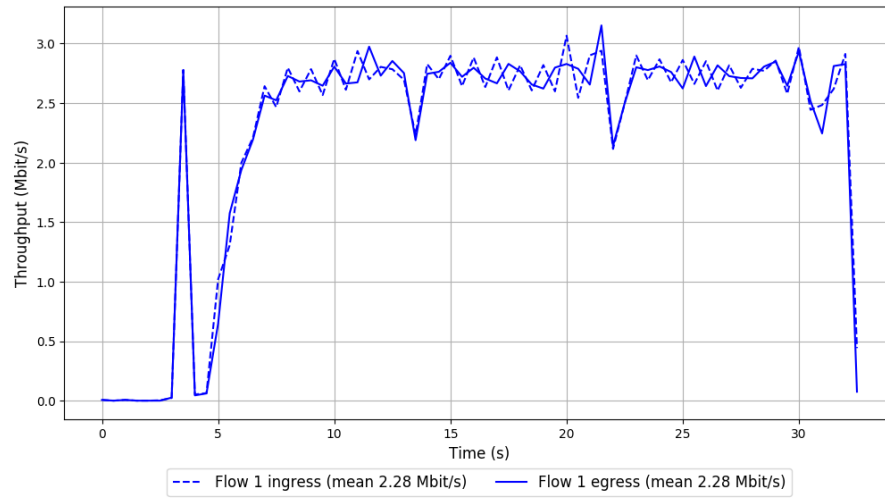
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.308 ms

Loss rate: 0.45%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-16 16:19:40

End at: 2018-01-16 16:20:10

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.643 ms

Loss rate: 0.45%

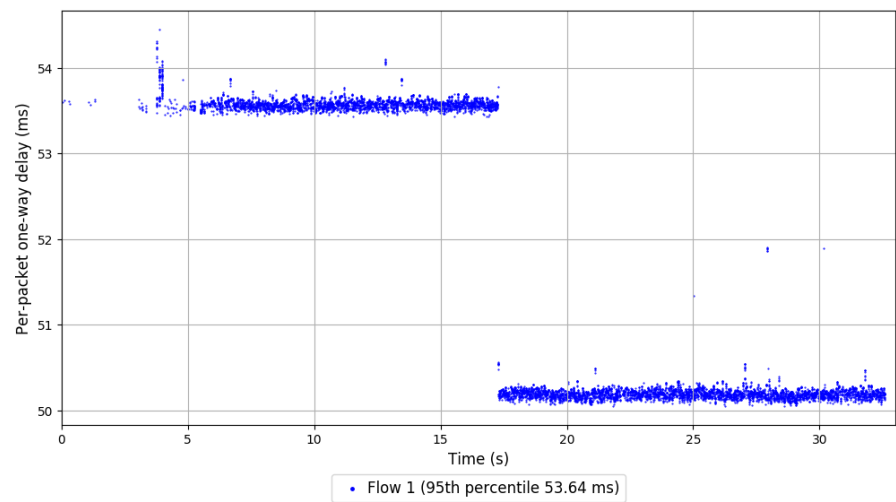
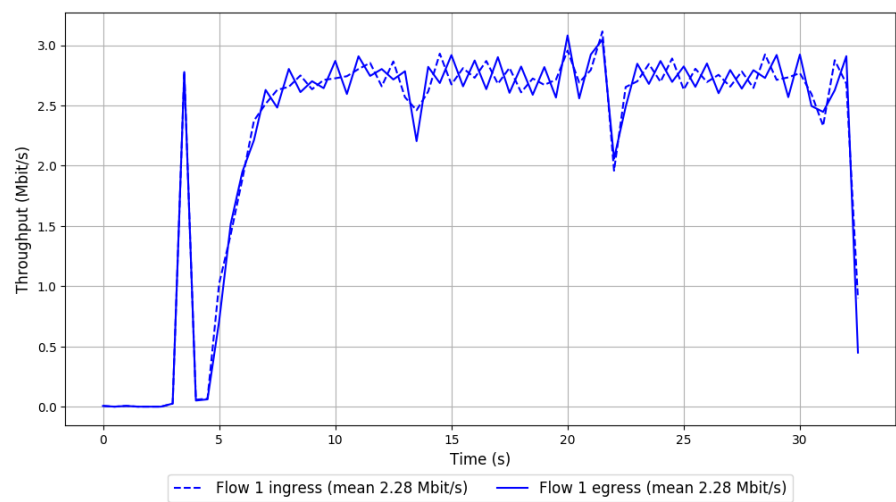
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.643 ms

Loss rate: 0.45%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-16 16:33:50

End at: 2018-01-16 16:34:20

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.765 ms

Loss rate: 0.36%

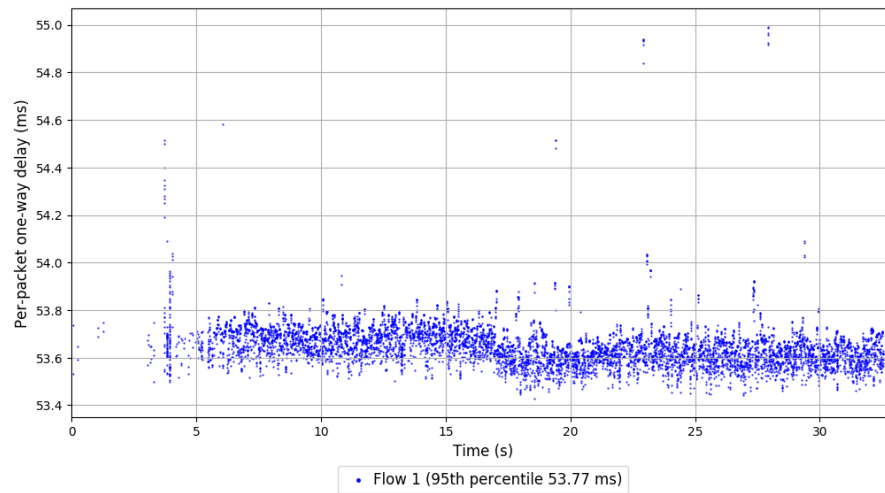
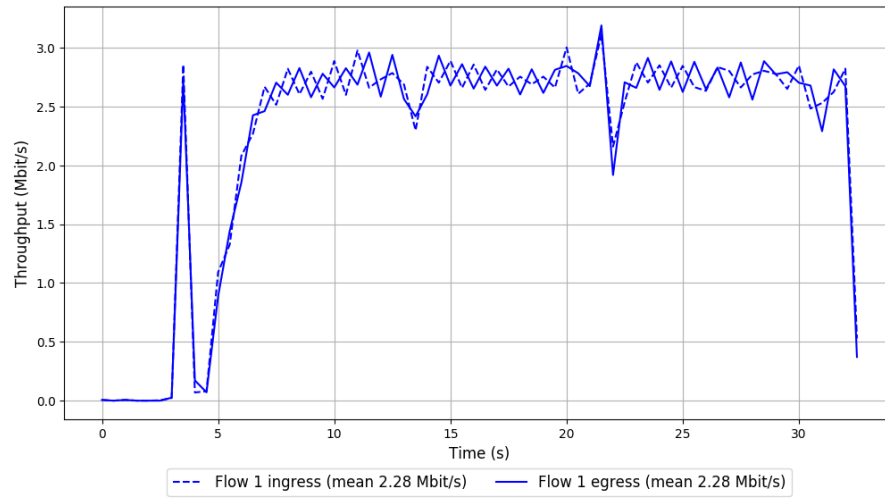
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.765 ms

Loss rate: 0.36%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 16:47:57

End at: 2018-01-16 16:48:27

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.723 ms

Loss rate: 0.46%

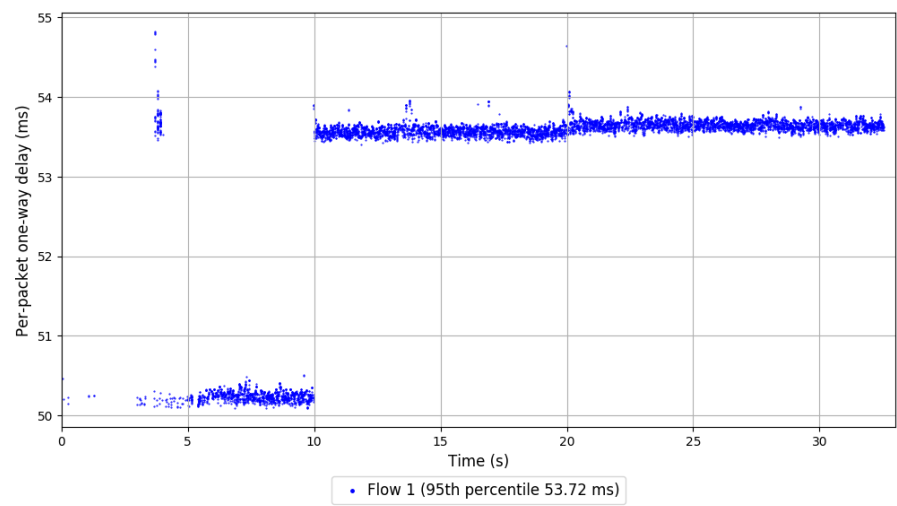
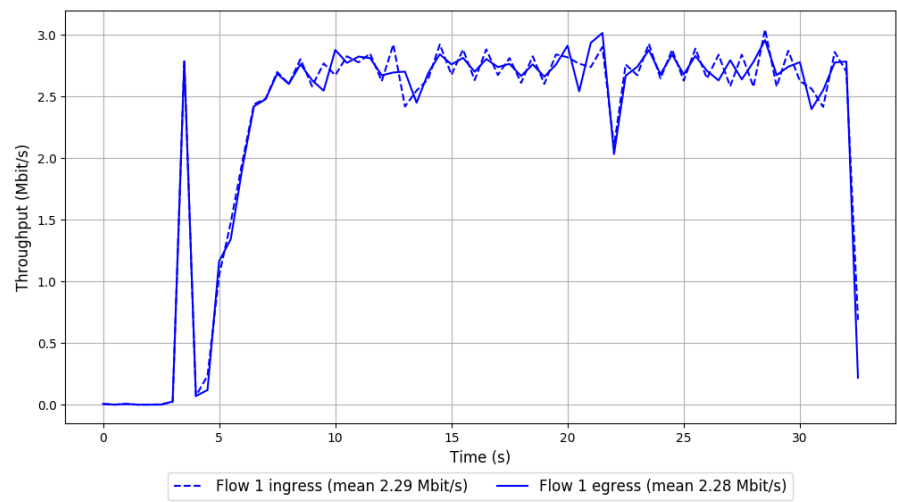
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.723 ms

Loss rate: 0.46%

Run 10: Report of WebRTC media — Data Link

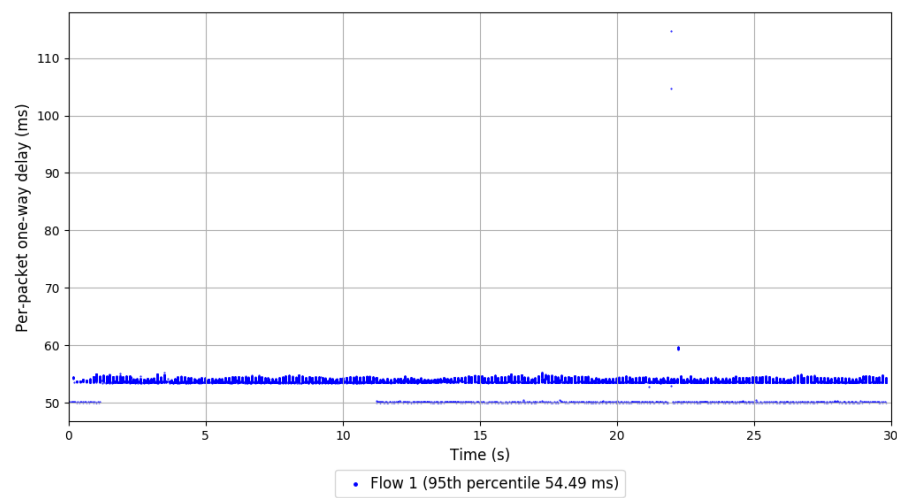
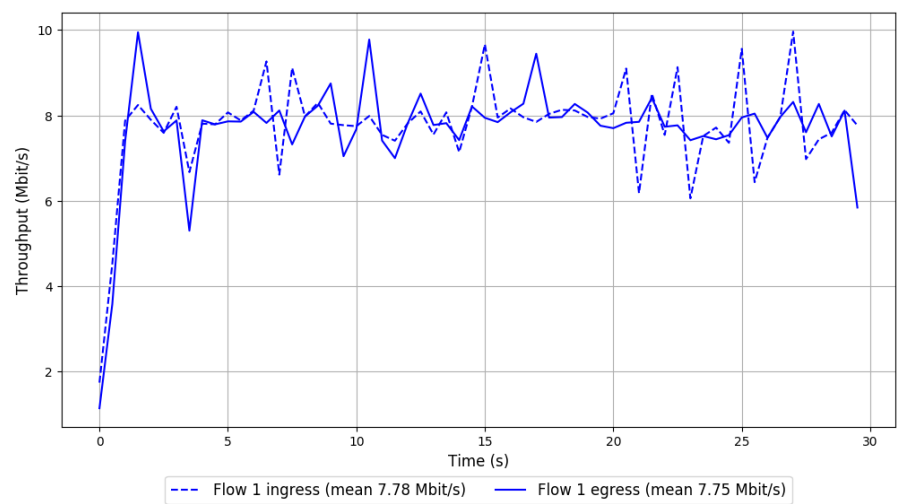


```
Run 1: Statistics of Sprout

Start at: 2018-01-16 14:38:13
End at: 2018-01-16 14:38:43

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 54.493 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 54.493 ms
Loss rate: 0.85%
```

Run 1: Report of Sprout — Data Link

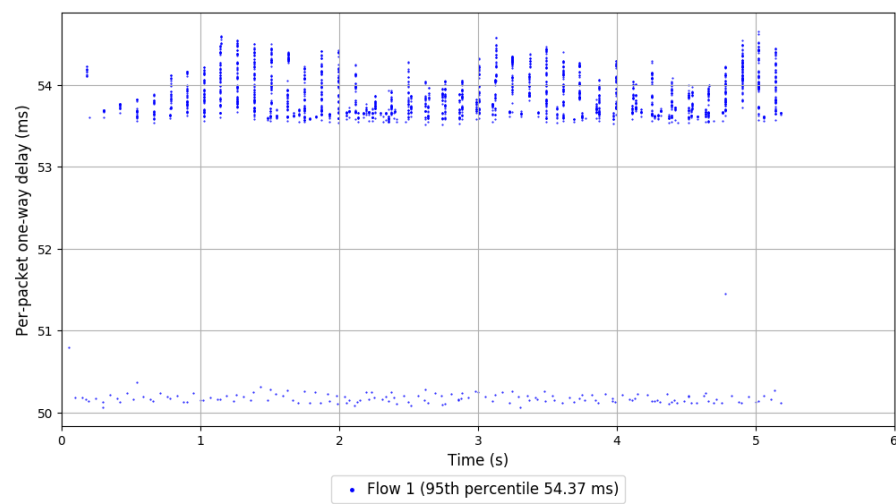
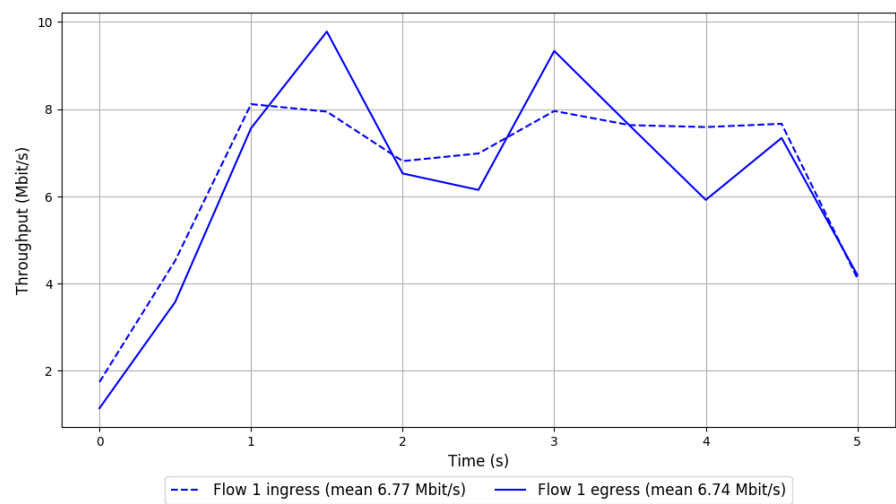


Run 2: Statistics of Sprout

Start at: 2018-01-16 14:51:53

End at: 2018-01-16 14:52:23

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 15:06:26

End at: 2018-01-16 15:06:56

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.317 ms

Loss rate: 0.32%

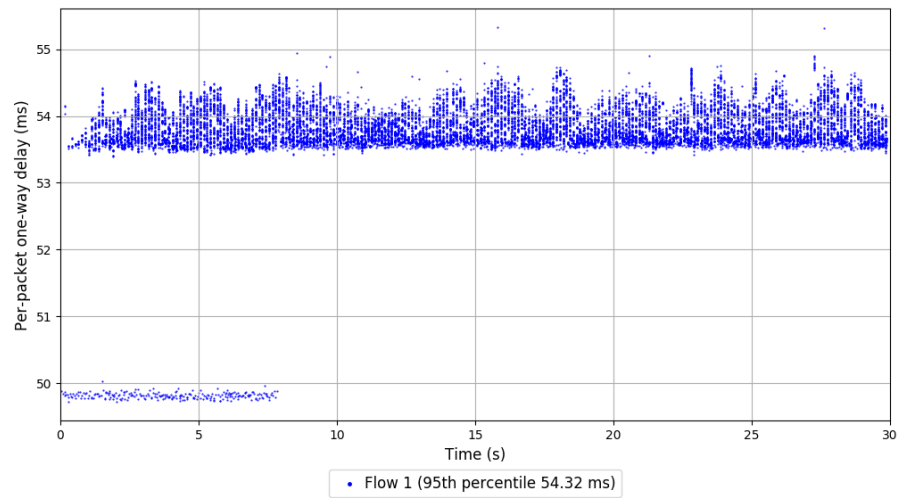
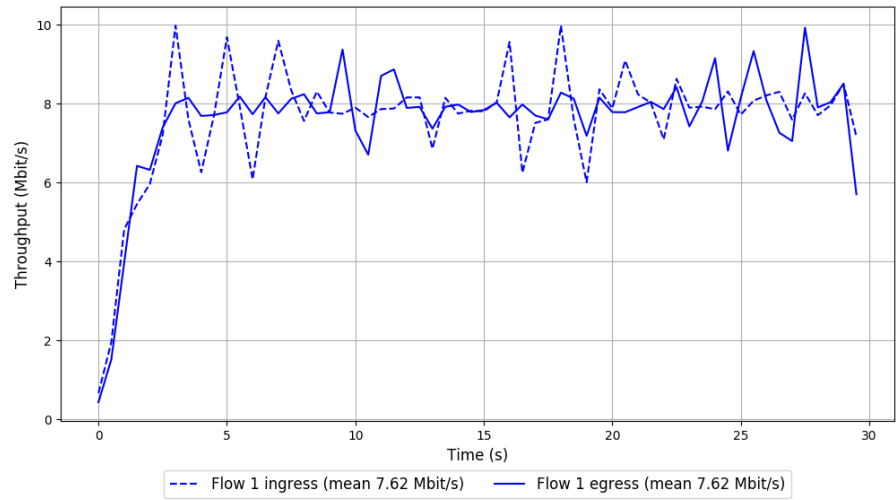
-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.317 ms

Loss rate: 0.32%

Run 3: Report of Sprout — Data Link

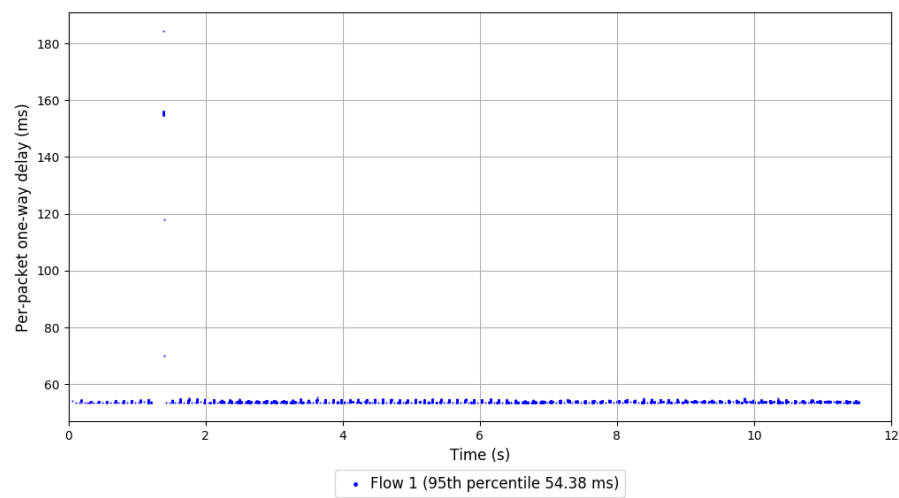
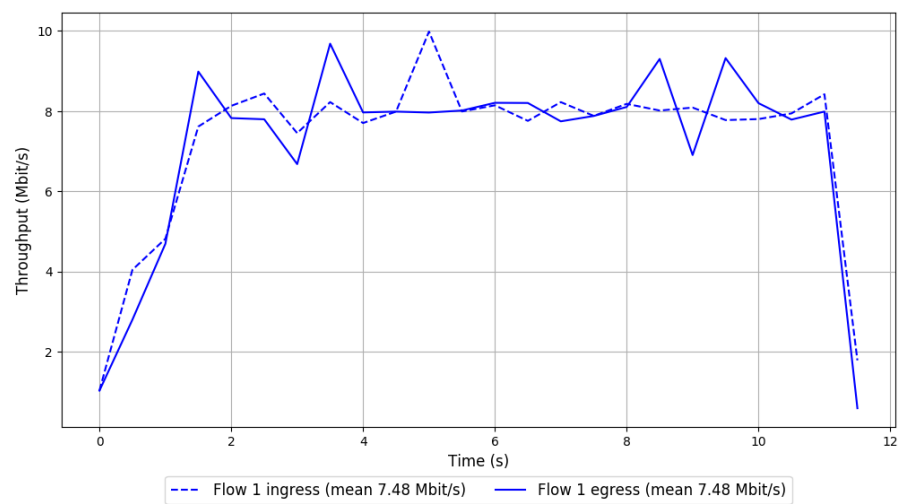


Run 4: Statistics of Sprout

Start at: 2018-01-16 15:20:44

End at: 2018-01-16 15:21:14

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 15:35:12

End at: 2018-01-16 15:35:42

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.463 ms

Loss rate: 0.58%

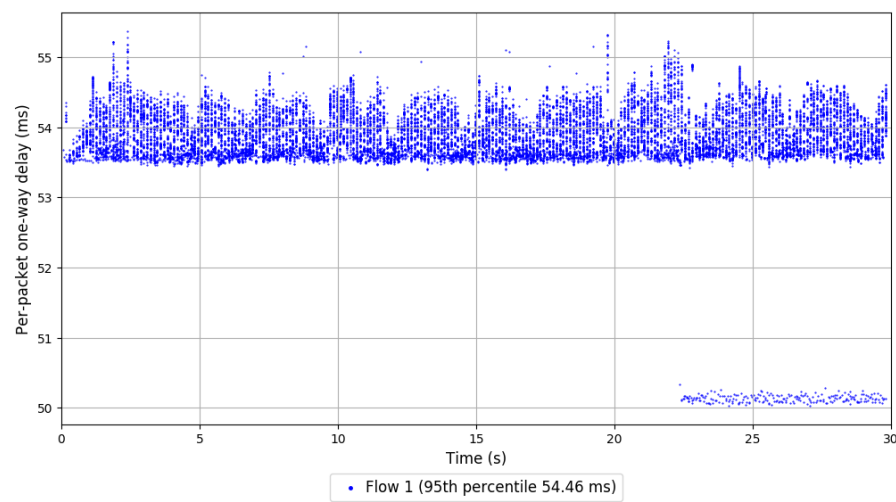
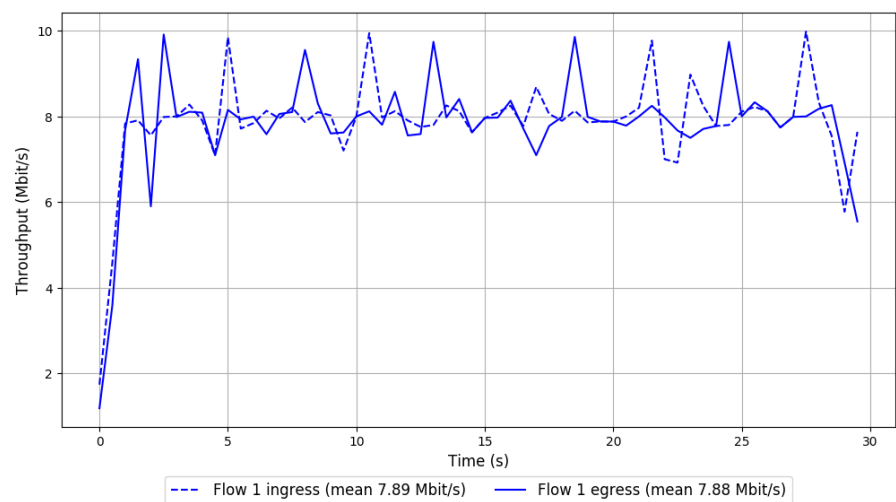
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.463 ms

Loss rate: 0.58%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 15:49:05

End at: 2018-01-16 15:49:35

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.49%

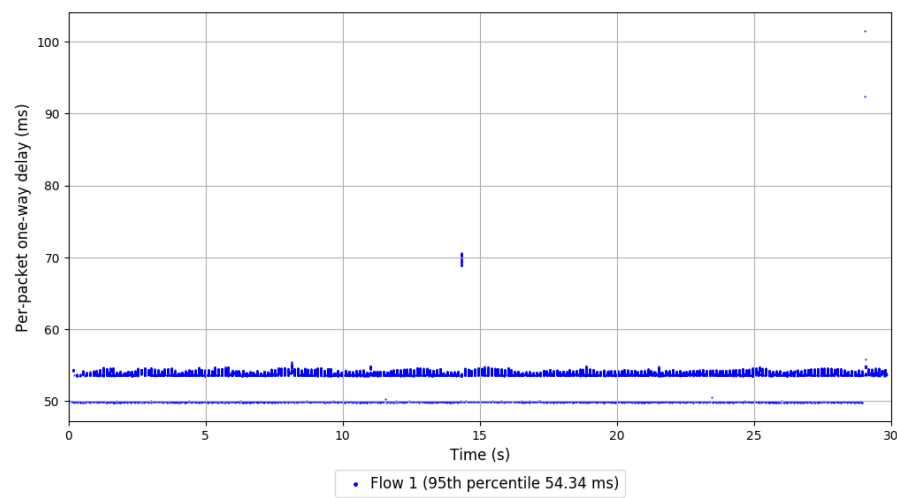
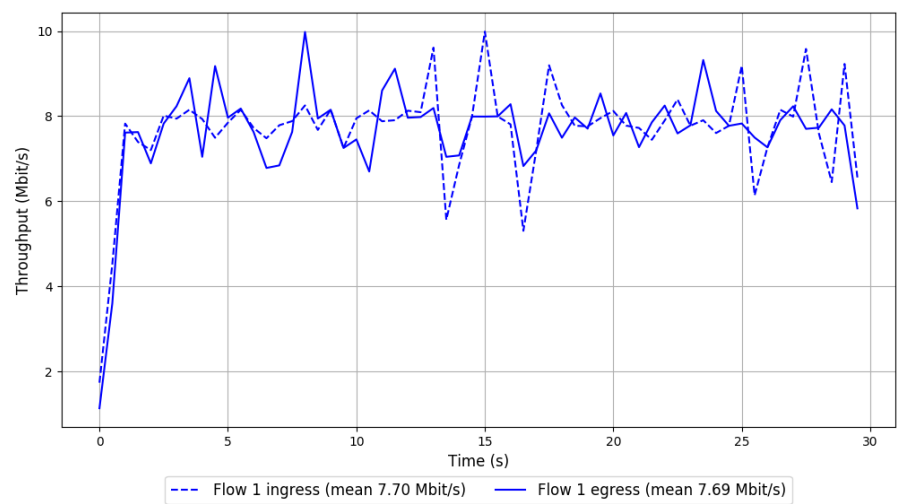
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.49%

Run 6: Report of Sprout — Data Link

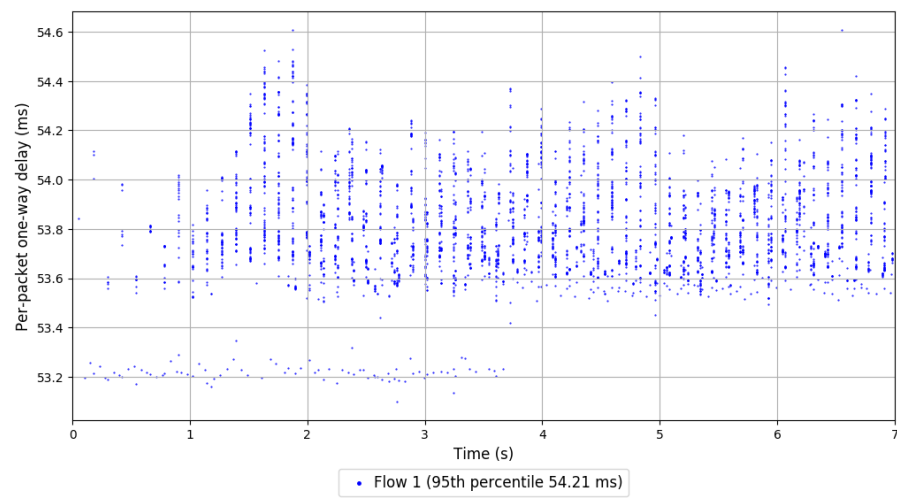
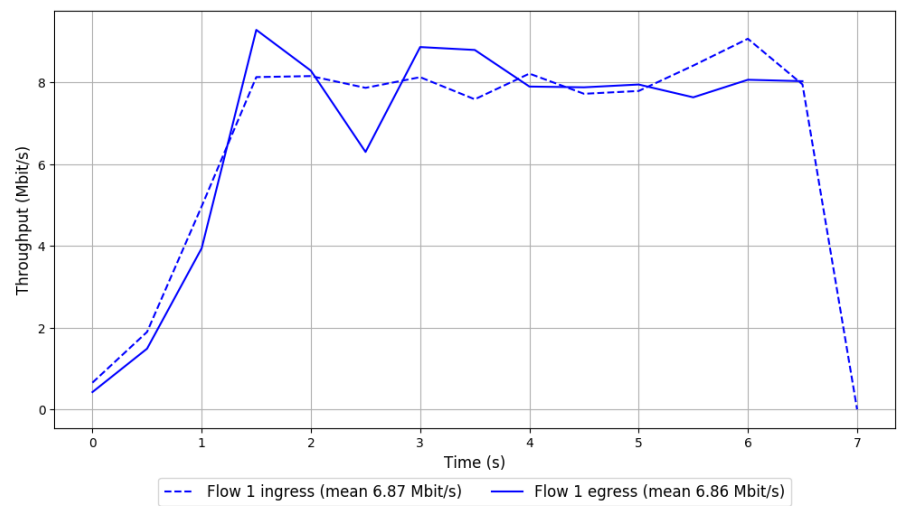


Run 7: Statistics of Sprout

Start at: 2018-01-16 16:03:18

End at: 2018-01-16 16:03:48

Run 7: Report of Sprout — Data Link

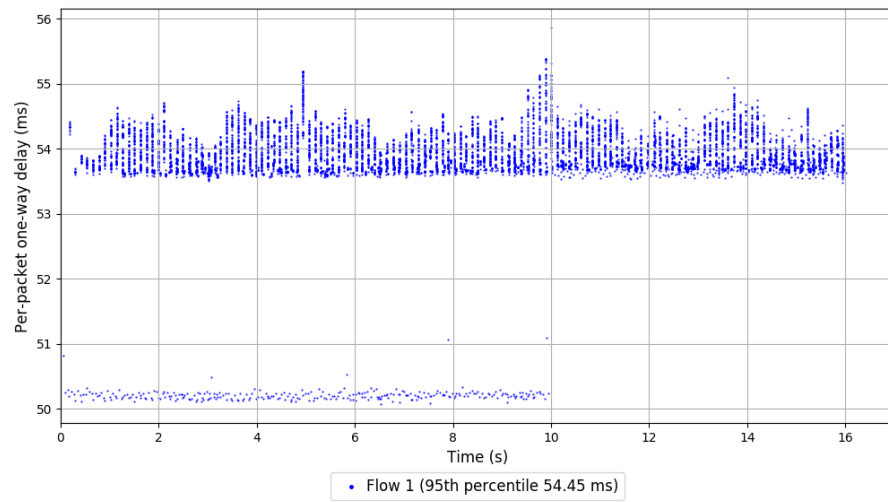
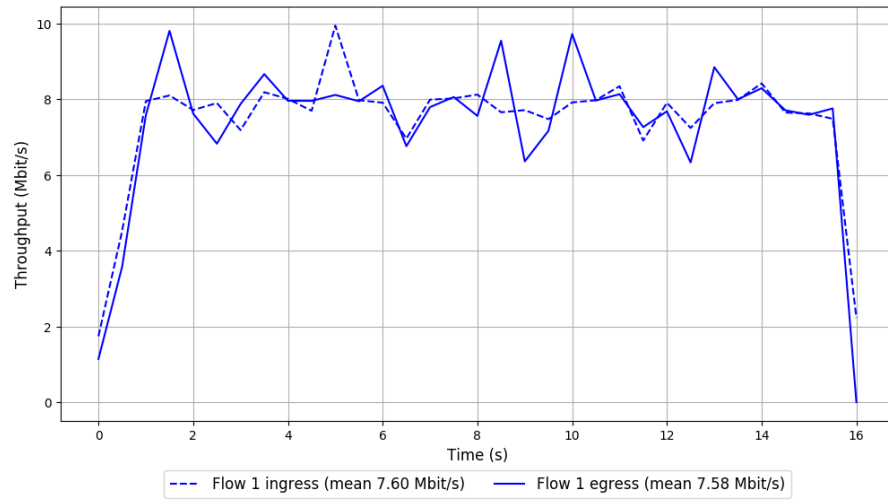


Run 8: Statistics of Sprout

Start at: 2018-01-16 16:17:30

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

Run 8: Report of Sprout — Data Link

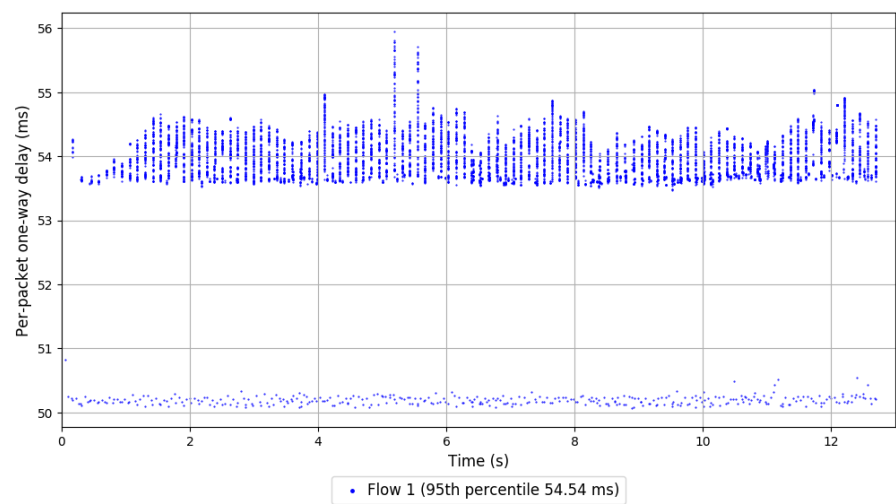
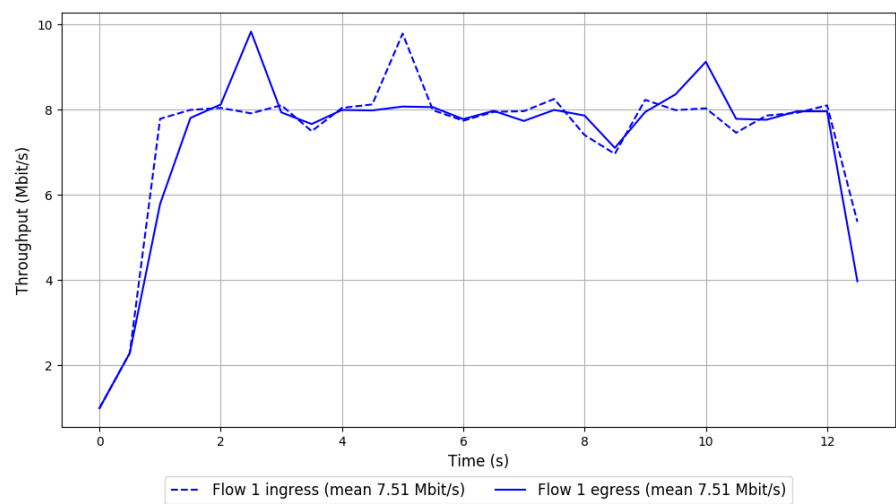


Run 9: Statistics of Sprout

Start at: 2018-01-16 16:31:39

End at: 2018-01-16 16:32:09

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-16 16:45:48

End at: 2018-01-16 16:46:18

Below is generated by plot.py at 2018-01-16 19:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.493 ms

Loss rate: 0.12%

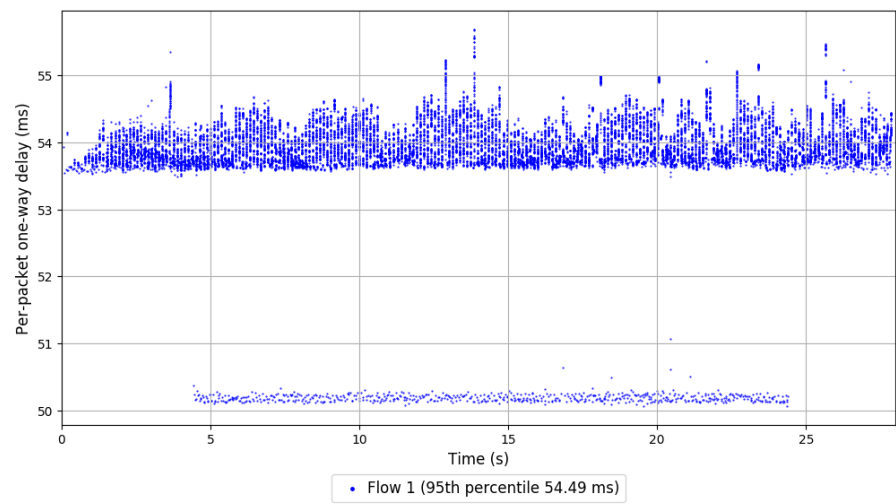
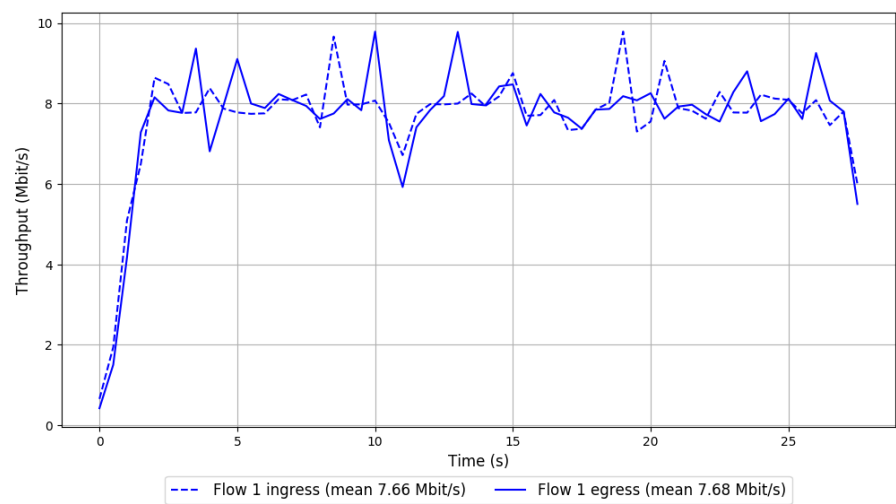
-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.493 ms

Loss rate: 0.12%

Run 10: Report of Sprout — Data Link

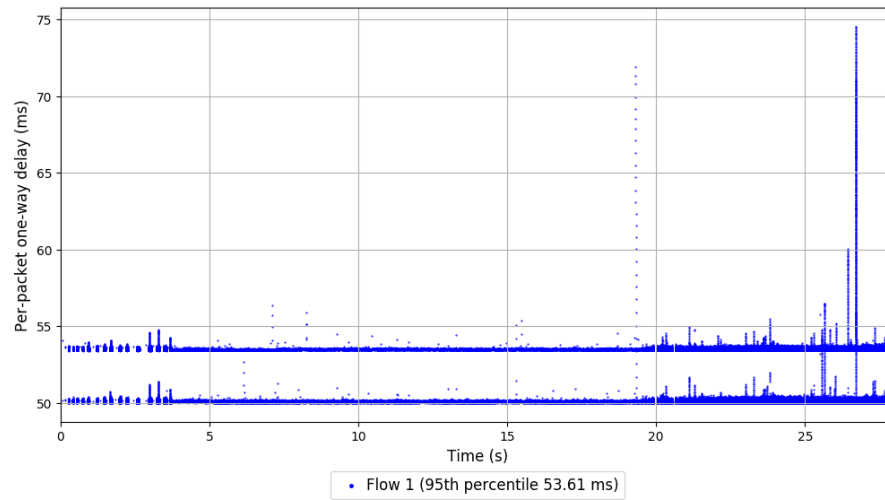
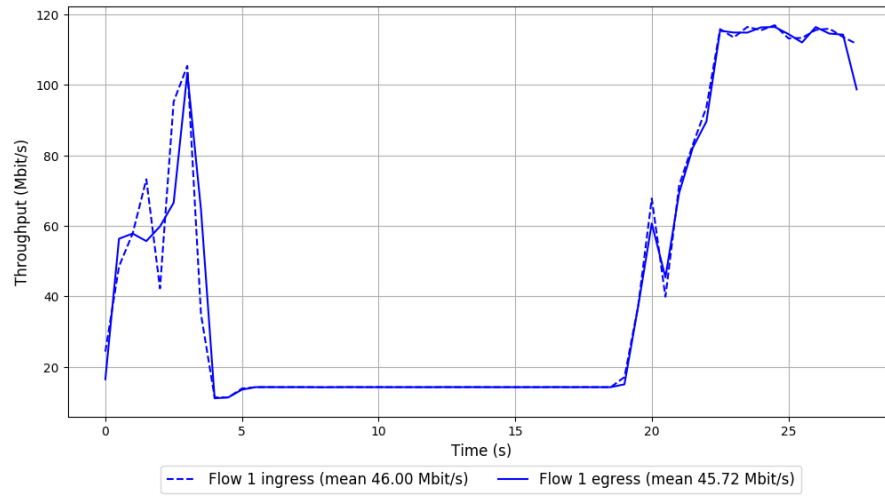


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 14:32:05
End at: 2018-01-16 14:32:35

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.99%
```


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

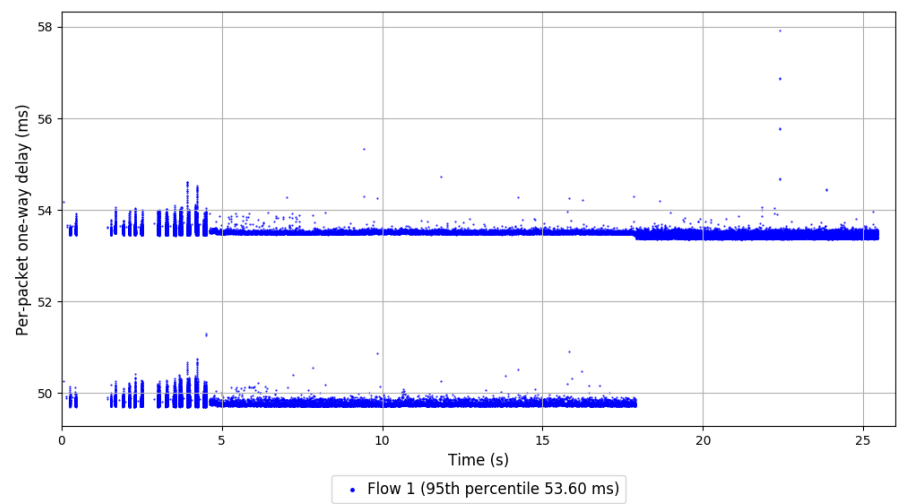
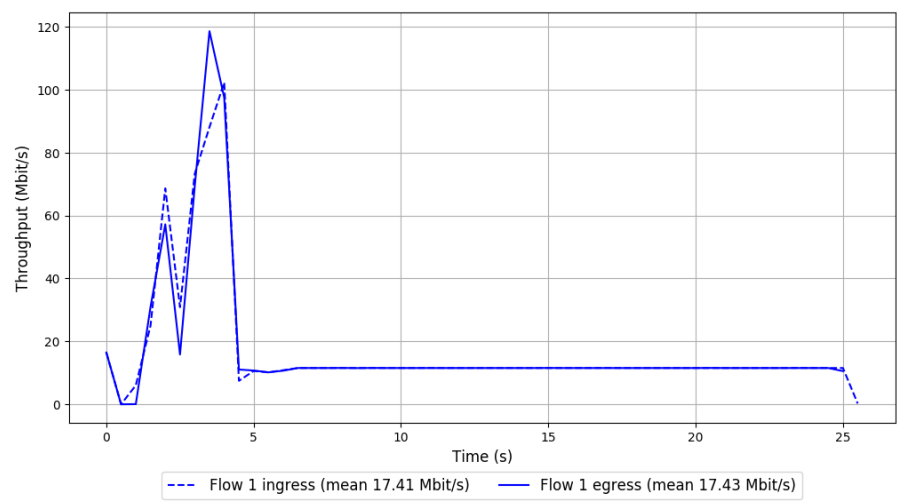


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 14:45:42
End at: 2018-01-16 14:46:12

# Below is generated by plot.py at 2018-01-16 19:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.43 Mbit/s
95th percentile per-packet one-way delay: 53.596 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 17.43 Mbit/s
95th percentile per-packet one-way delay: 53.596 ms
Loss rate: 0.28%
```

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

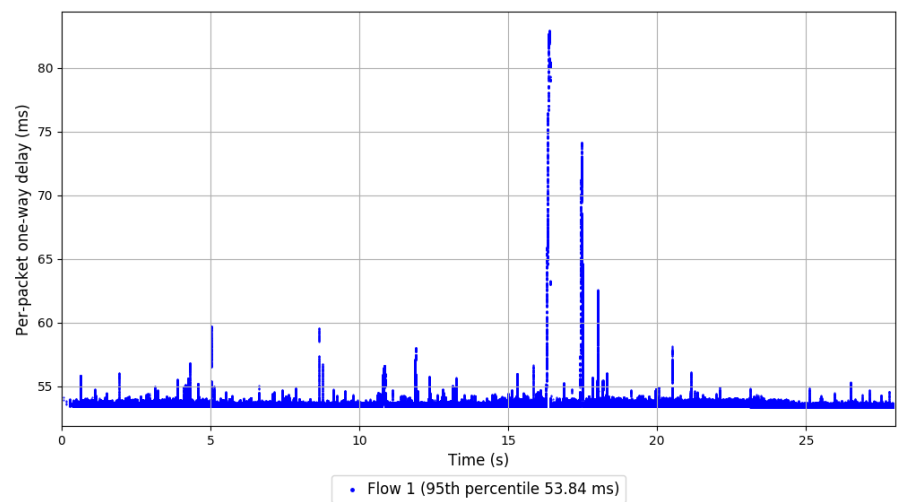
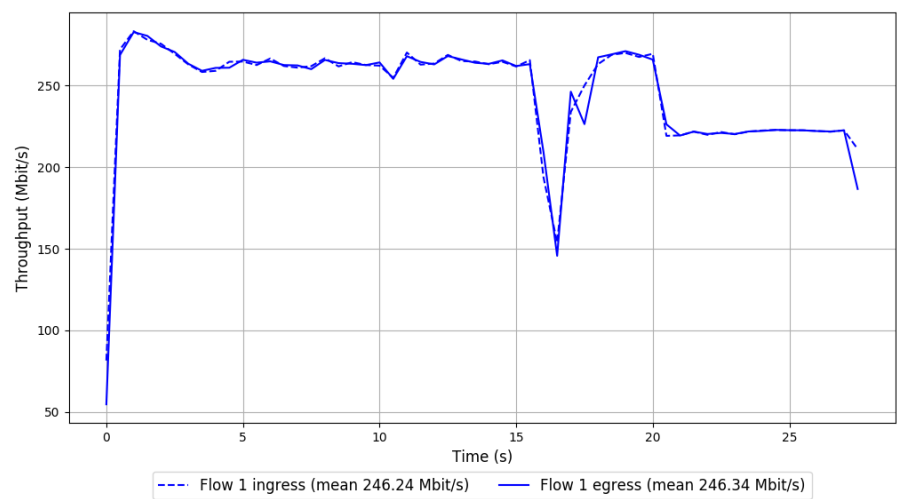


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 14:59:29
End at: 2018-01-16 14:59:59

# Below is generated by plot.py at 2018-01-16 19:46:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.34 Mbit/s
95th percentile per-packet one-way delay: 53.835 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 246.34 Mbit/s
95th percentile per-packet one-way delay: 53.835 ms
Loss rate: 0.35%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 15:14:03

End at: 2018-01-16 15:14:33

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.90 Mbit/s

95th percentile per-packet one-way delay: 56.847 ms

Loss rate: 0.44%

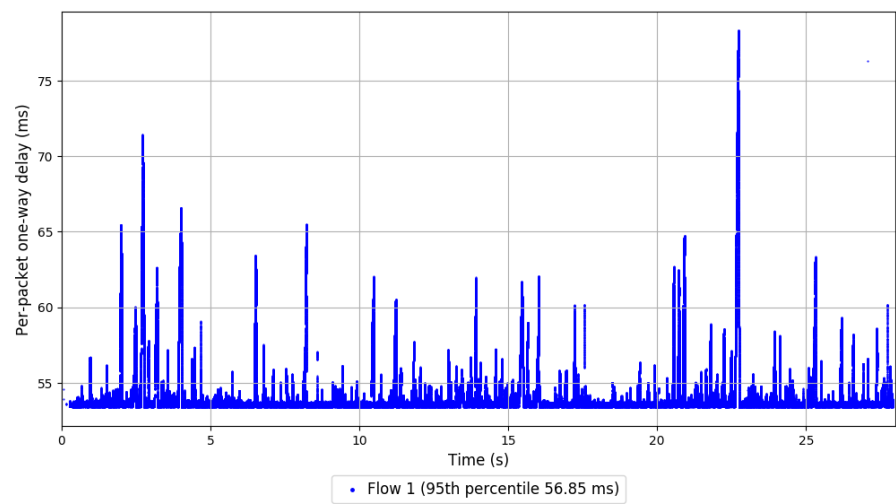
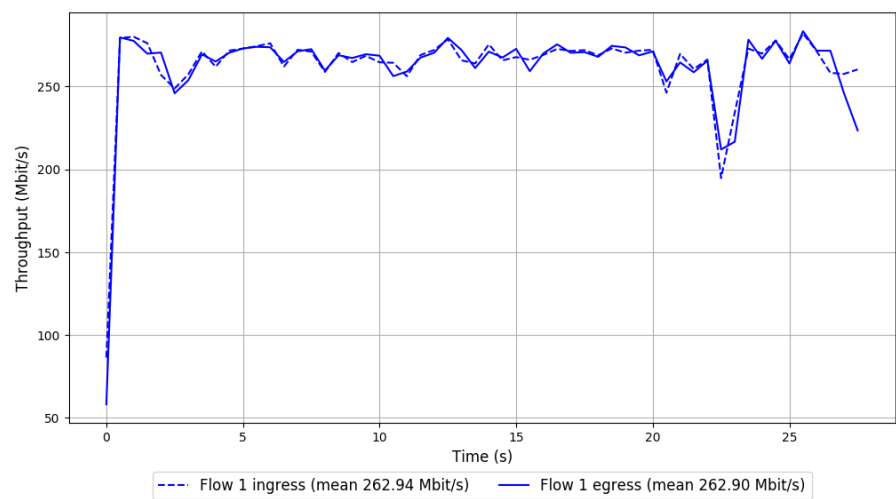
-- Flow 1:

Average throughput: 262.90 Mbit/s

95th percentile per-packet one-way delay: 56.847 ms

Loss rate: 0.44%

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

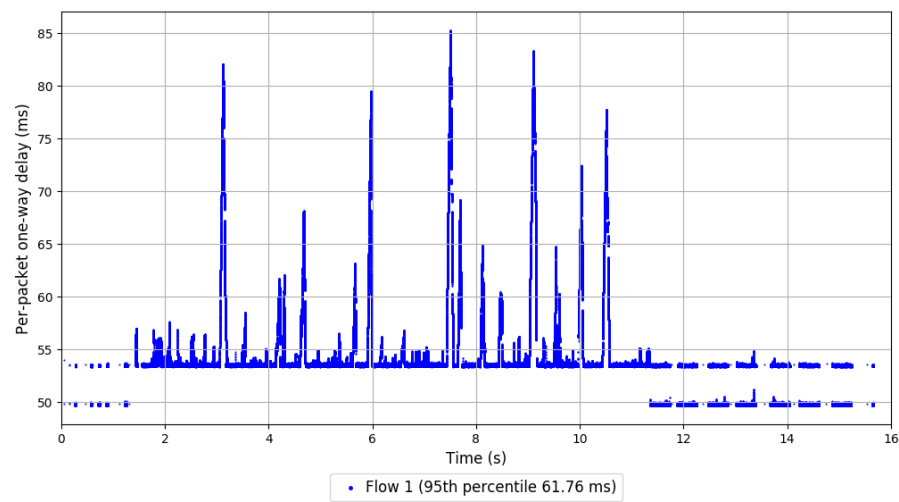
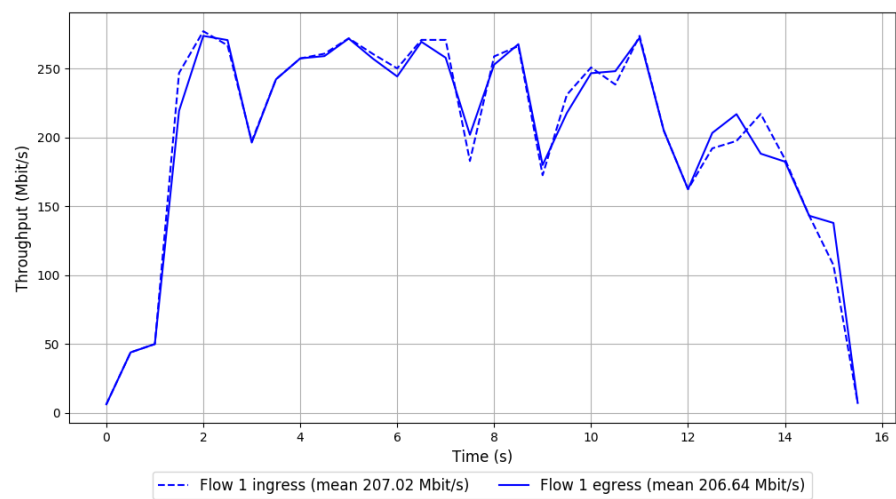


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 15:28:11

End at: 2018-01-16 15:28:41

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 15:42:52

End at: 2018-01-16 15:43:22

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.40 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.31%

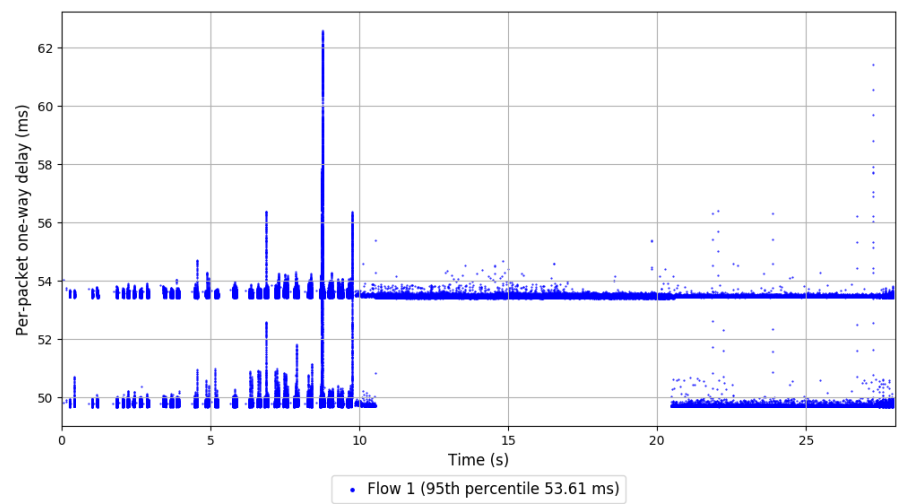
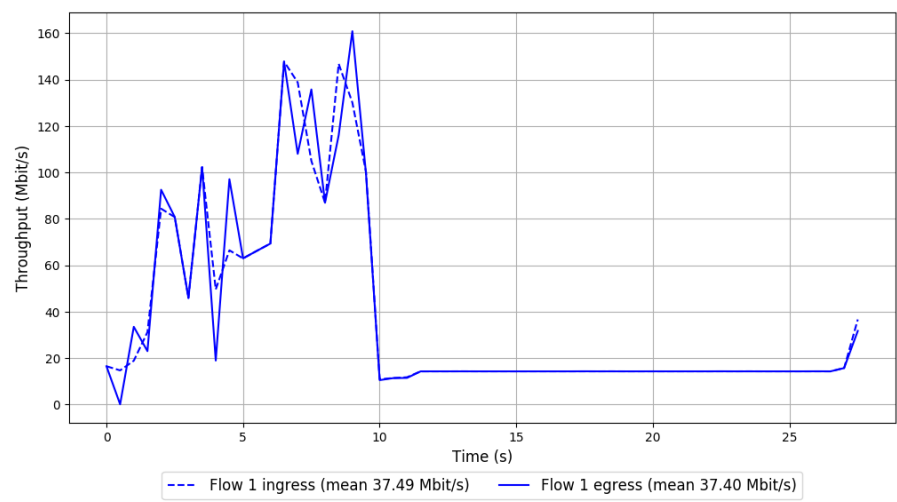
-- Flow 1:

Average throughput: 37.40 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.31%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 15:56:40

End at: 2018-01-16 15:57:10

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.80 Mbit/s

95th percentile per-packet one-way delay: 61.232 ms

Loss rate: 0.13%

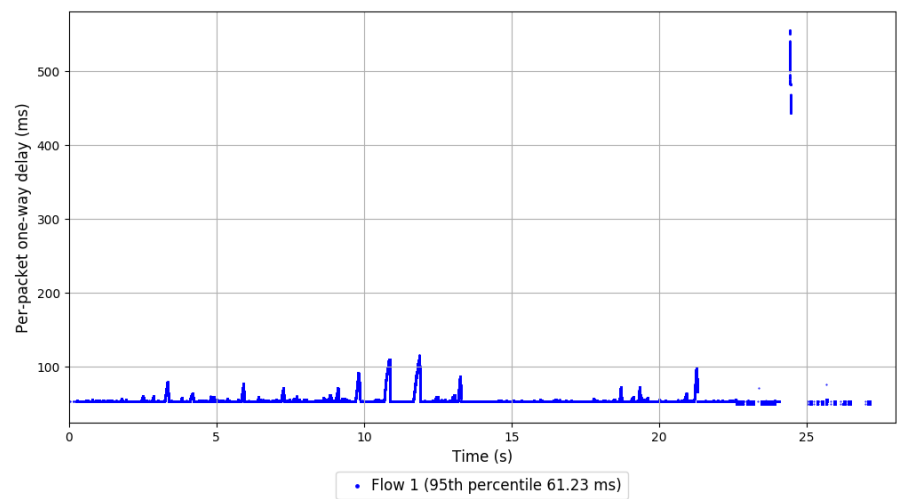
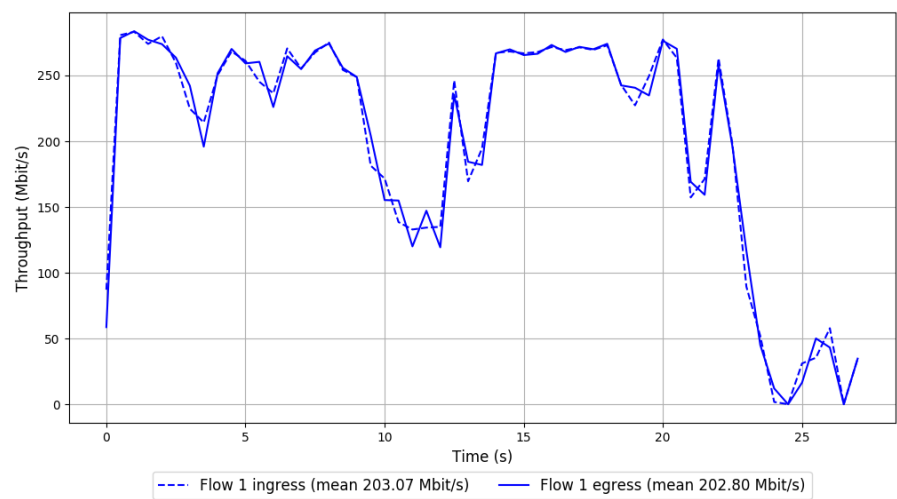
-- Flow 1:

Average throughput: 202.80 Mbit/s

95th percentile per-packet one-way delay: 61.232 ms

Loss rate: 0.13%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 16:10:56

End at: 2018-01-16 16:11:26

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.94 Mbit/s

95th percentile per-packet one-way delay: 63.102 ms

Loss rate: 0.60%

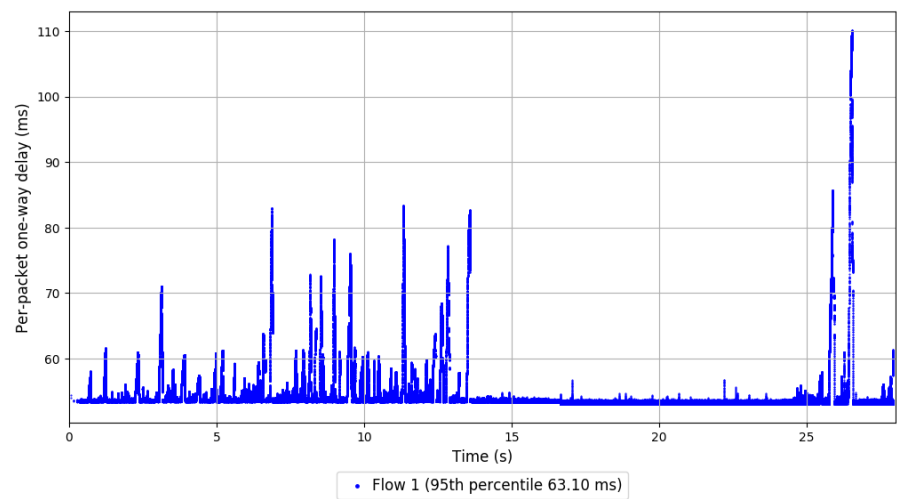
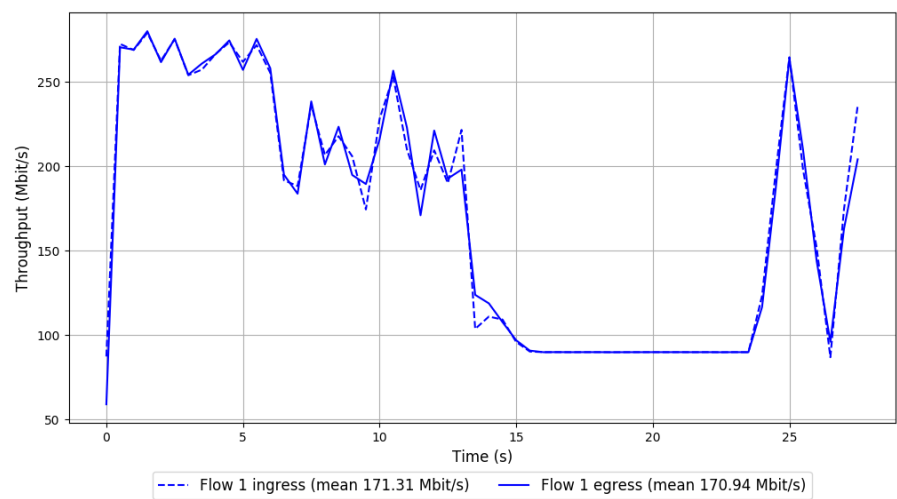
-- Flow 1:

Average throughput: 170.94 Mbit/s

95th percentile per-packet one-way delay: 63.102 ms

Loss rate: 0.60%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 16:25:06

End at: 2018-01-16 16:25:36

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 1.15%

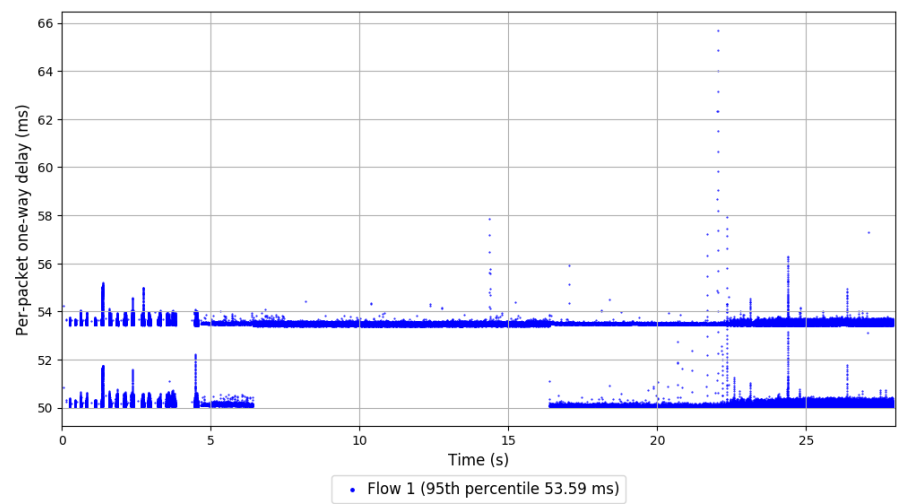
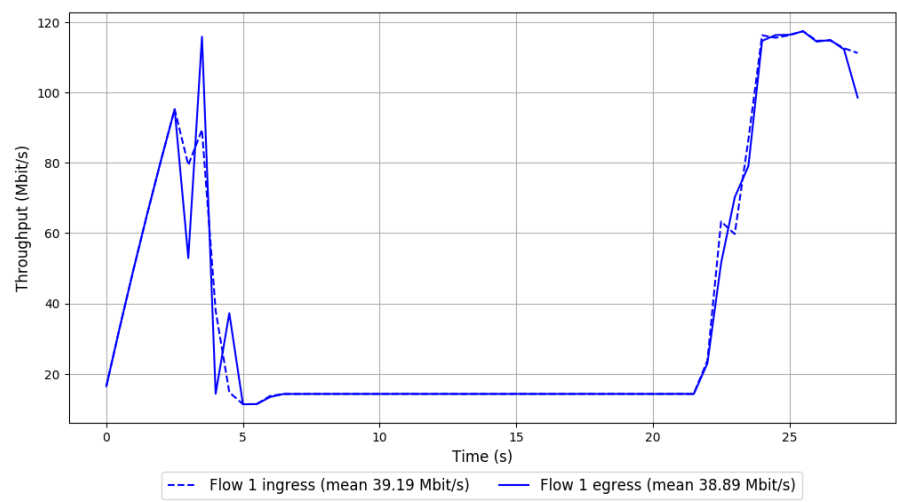
-- Flow 1:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 1.15%

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

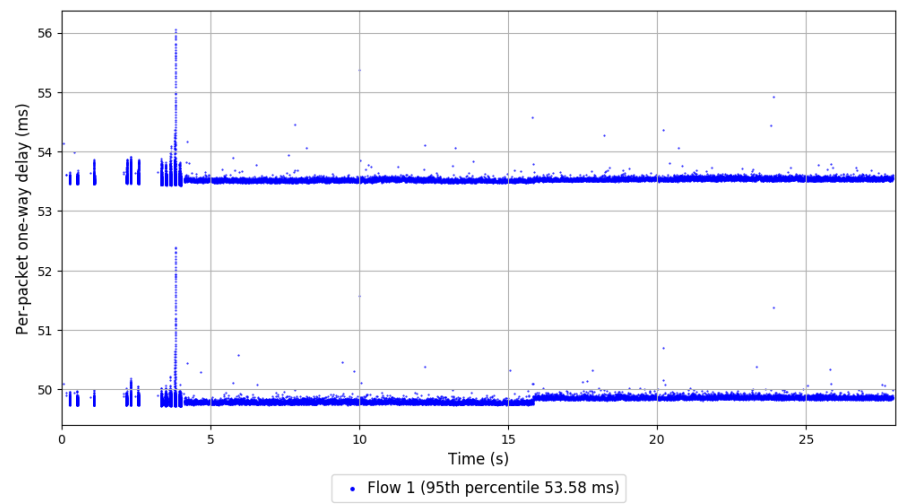
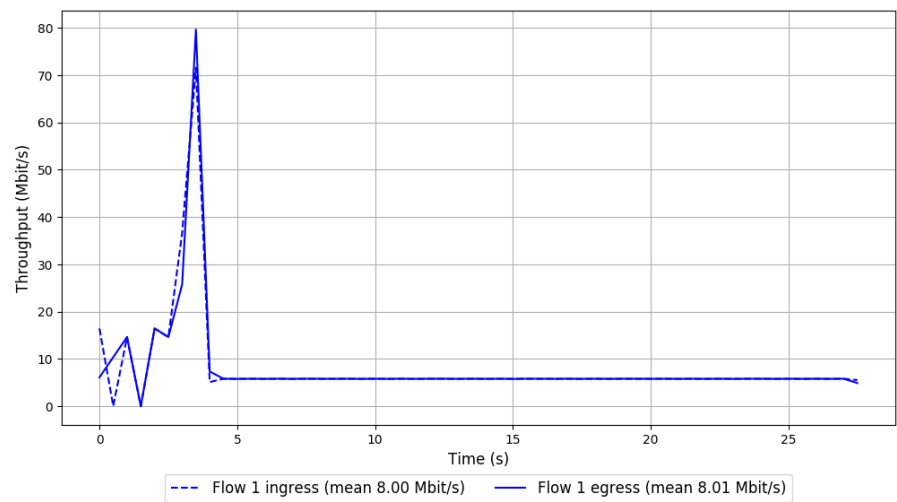


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 16:39:16
End at: 2018-01-16 16:39:46

# Below is generated by plot.py at 2018-01-16 19:47:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 53.577 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 53.577 ms
Loss rate: 0.28%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 14:43:00

End at: 2018-01-16 14:43:30

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 53.965 ms

Loss rate: 0.42%

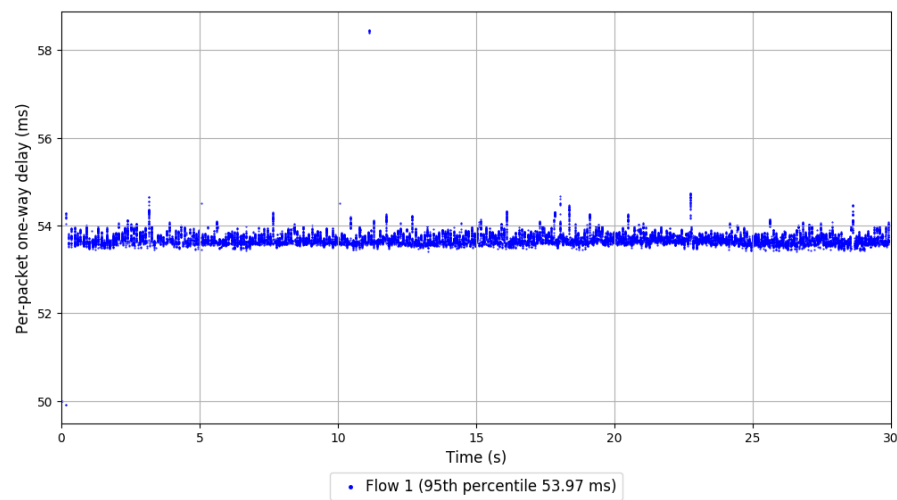
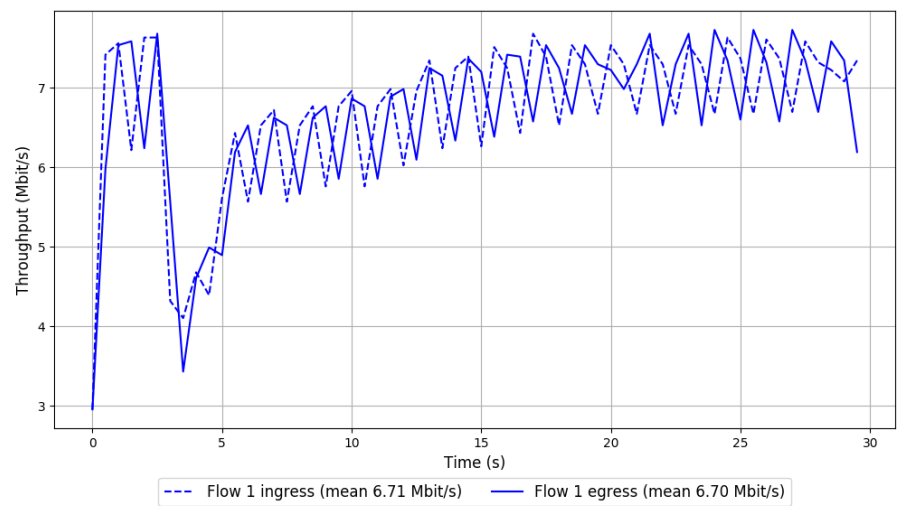
-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 53.965 ms

Loss rate: 0.42%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 14:56:44

End at: 2018-01-16 14:57:14

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.73%

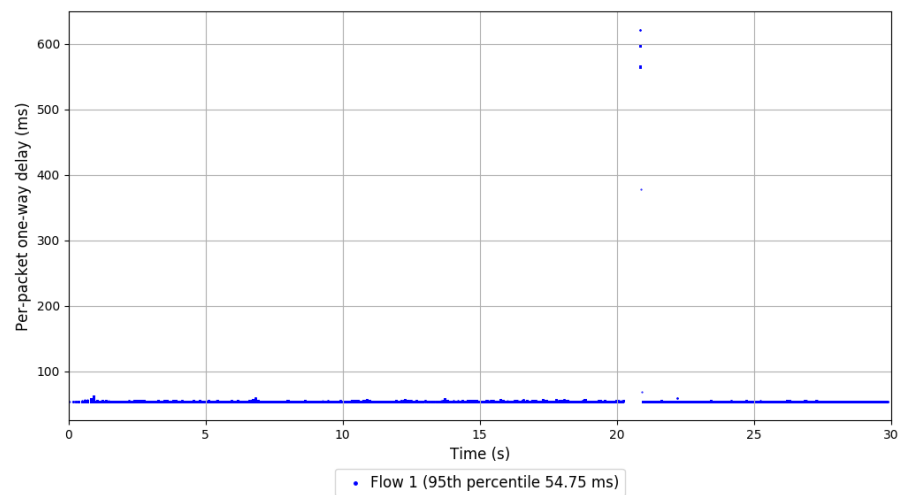
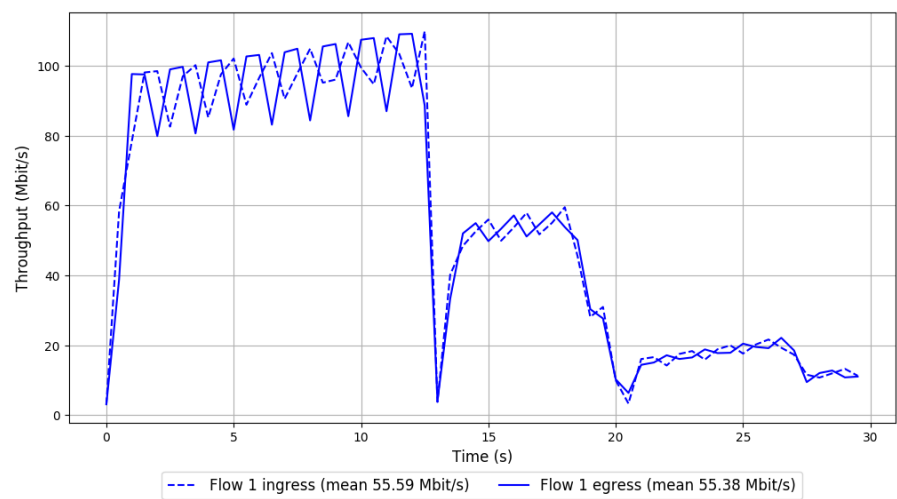
-- Flow 1:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.73%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 15:11:19

End at: 2018-01-16 15:11:49

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 53.978 ms

Loss rate: 0.37%

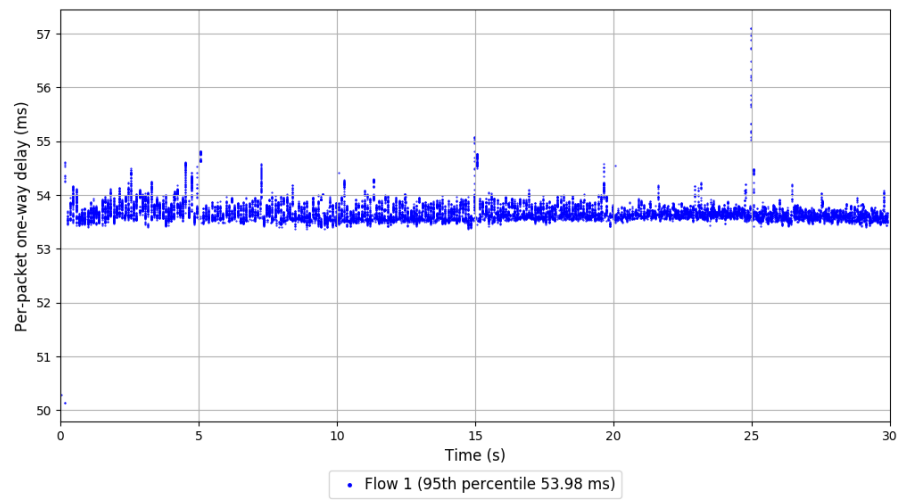
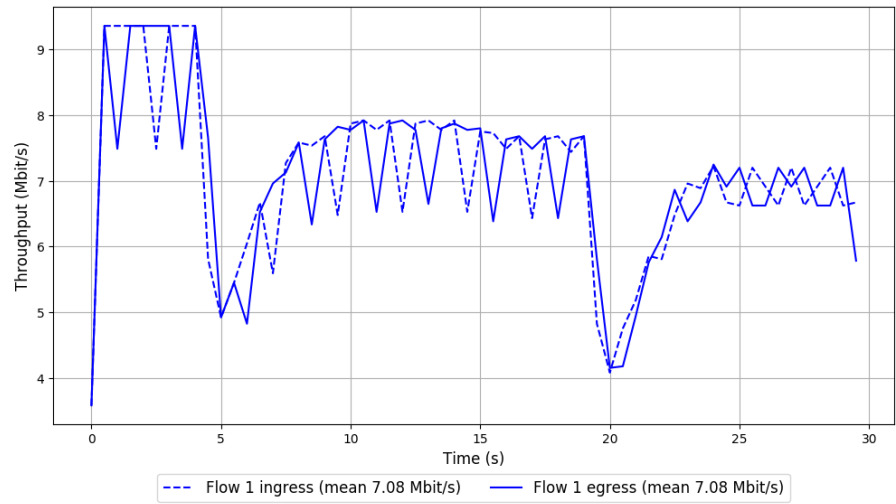
-- Flow 1:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 53.978 ms

Loss rate: 0.37%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 15:25:27

End at: 2018-01-16 15:25:57

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 54.124 ms

Loss rate: 0.39%

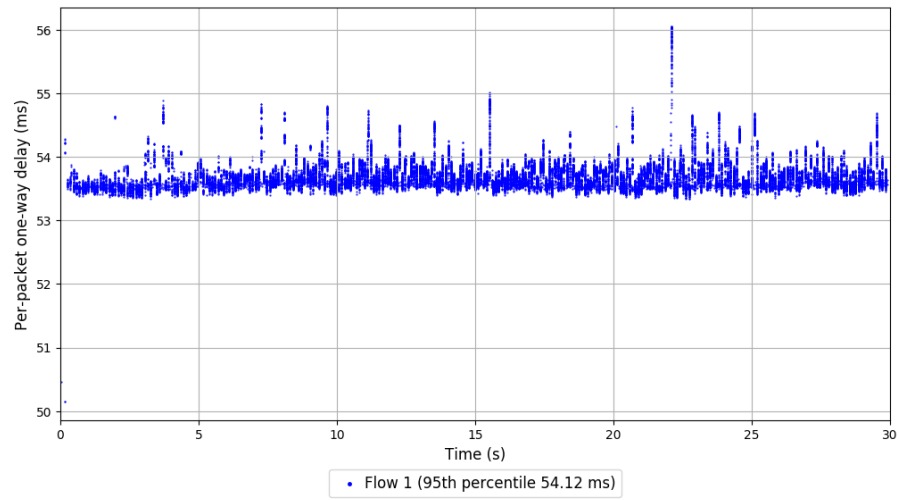
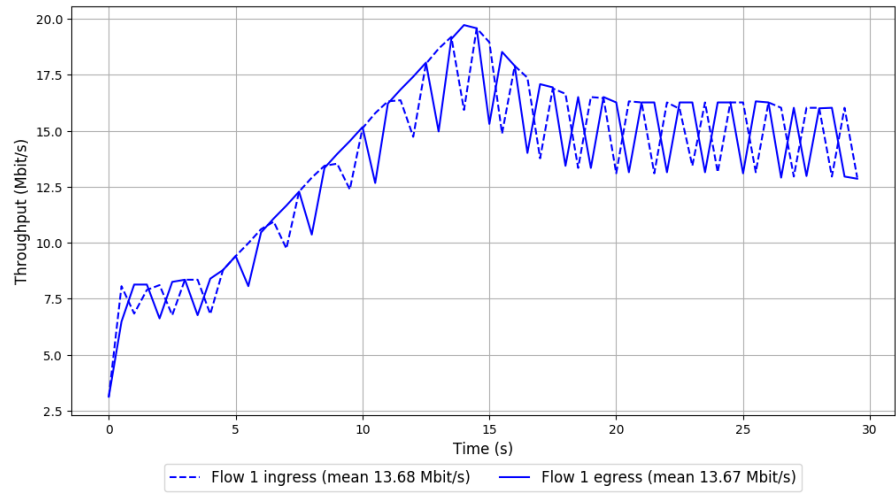
-- Flow 1:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 54.124 ms

Loss rate: 0.39%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 15:40:02

End at: 2018-01-16 15:40:32

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.91 Mbit/s

95th percentile per-packet one-way delay: 54.471 ms

Loss rate: 0.41%

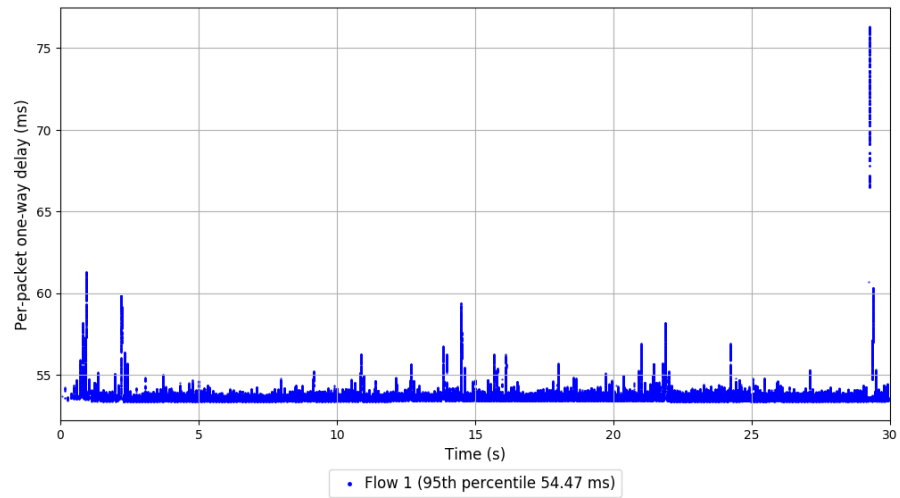
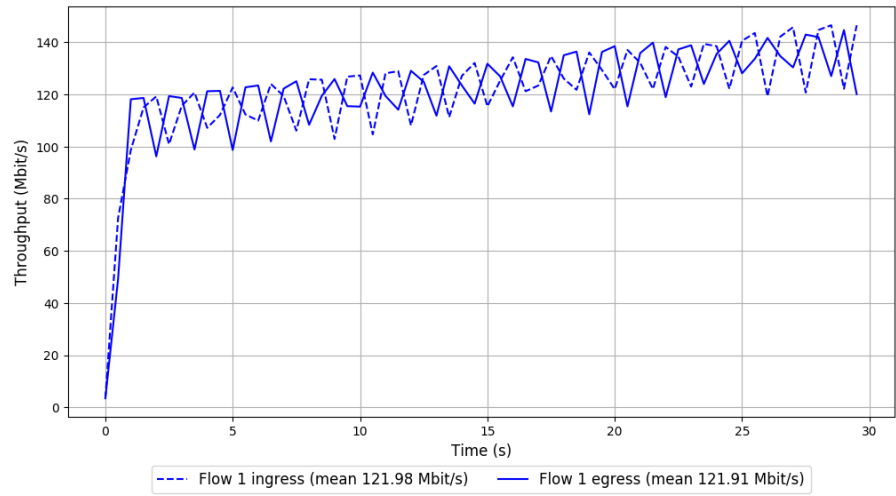
-- Flow 1:

Average throughput: 121.91 Mbit/s

95th percentile per-packet one-way delay: 54.471 ms

Loss rate: 0.41%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 15:53:57

End at: 2018-01-16 15:54:27

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.457 ms

Loss rate: 1.32%

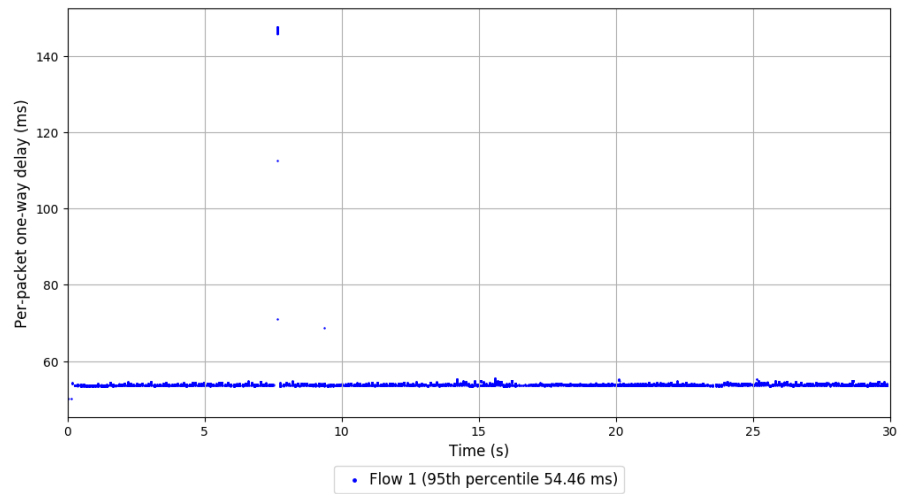
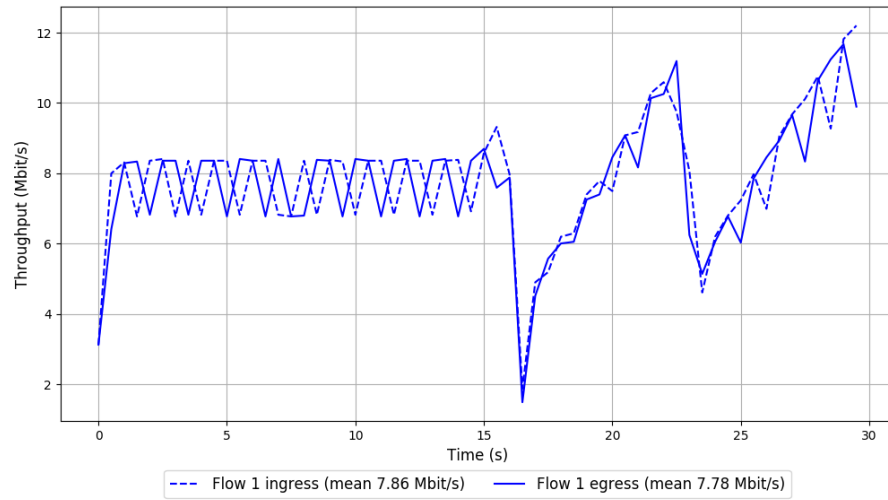
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.457 ms

Loss rate: 1.32%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 16:08:10

End at: 2018-01-16 16:08:40

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 56.388 ms

Loss rate: 0.50%

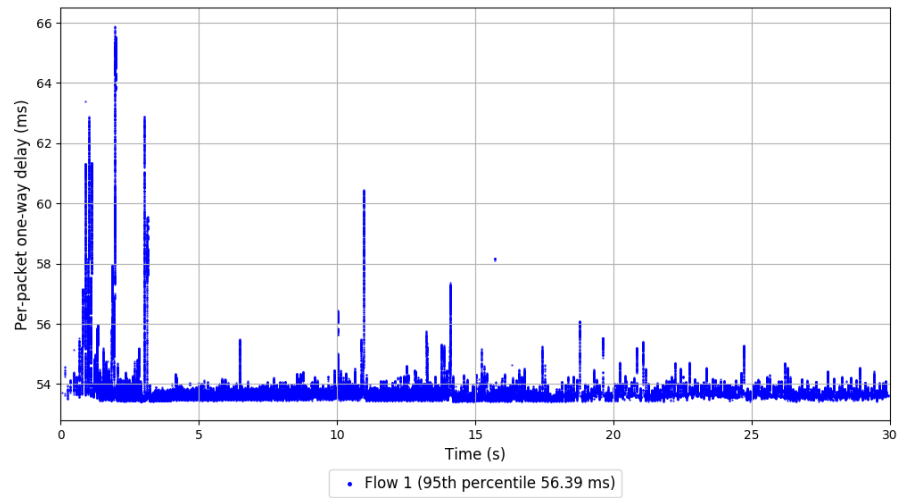
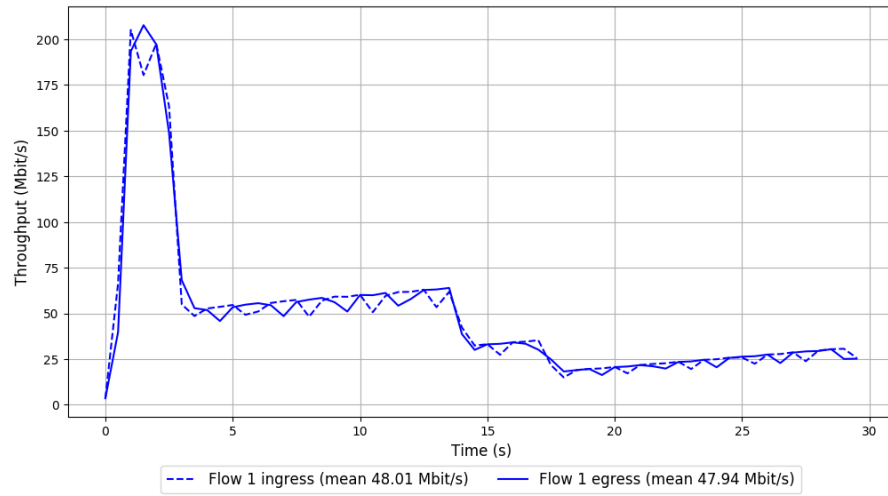
-- Flow 1:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 56.388 ms

Loss rate: 0.50%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 16:22:19

End at: 2018-01-16 16:22:49

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 54.566 ms

Loss rate: 0.16%

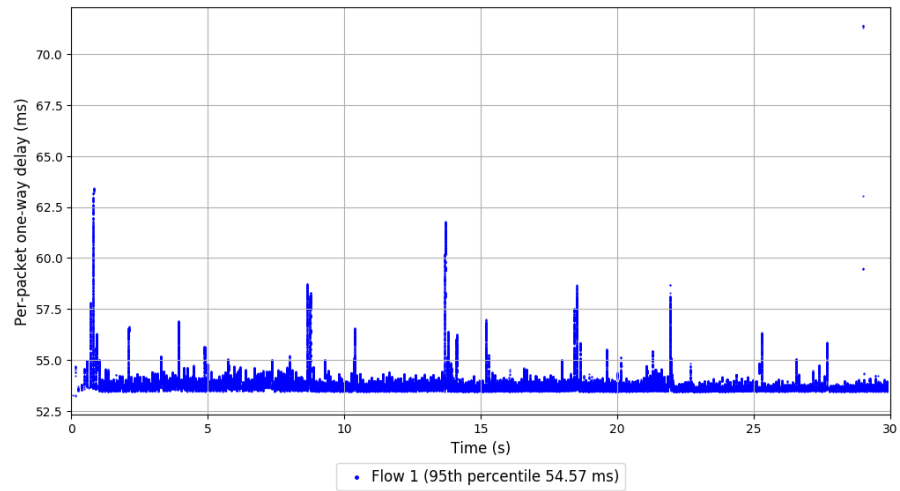
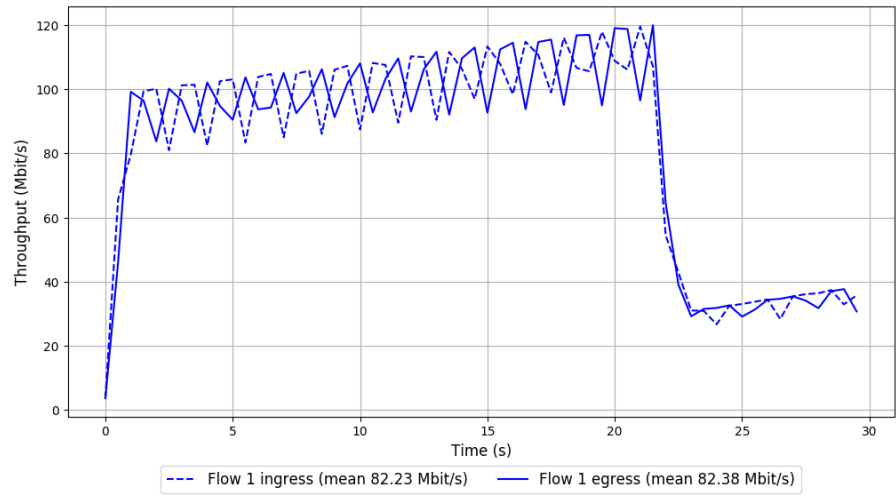
-- Flow 1:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 54.566 ms

Loss rate: 0.16%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 16:36:29

End at: 2018-01-16 16:36:59

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.82 Mbit/s

95th percentile per-packet one-way delay: 56.247 ms

Loss rate: 0.55%

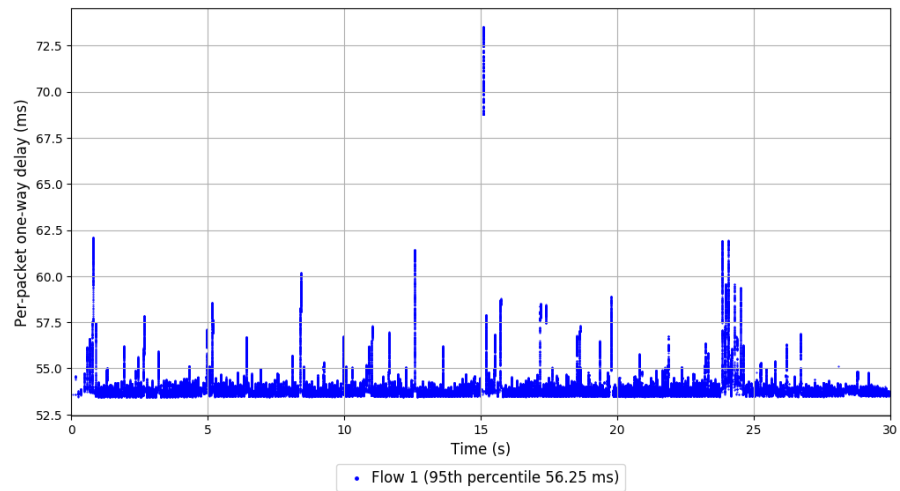
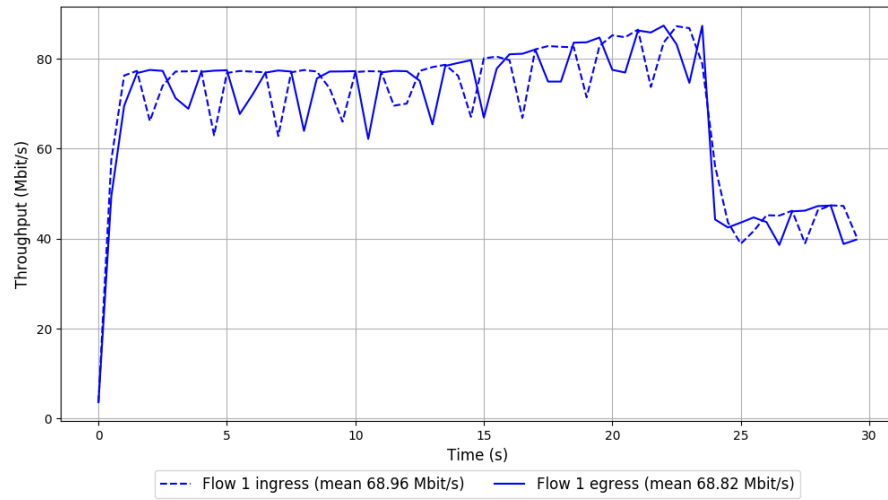
-- Flow 1:

Average throughput: 68.82 Mbit/s

95th percentile per-packet one-way delay: 56.247 ms

Loss rate: 0.55%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 16:50:38

End at: 2018-01-16 16:51:08

Below is generated by plot.py at 2018-01-16 19:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.37%

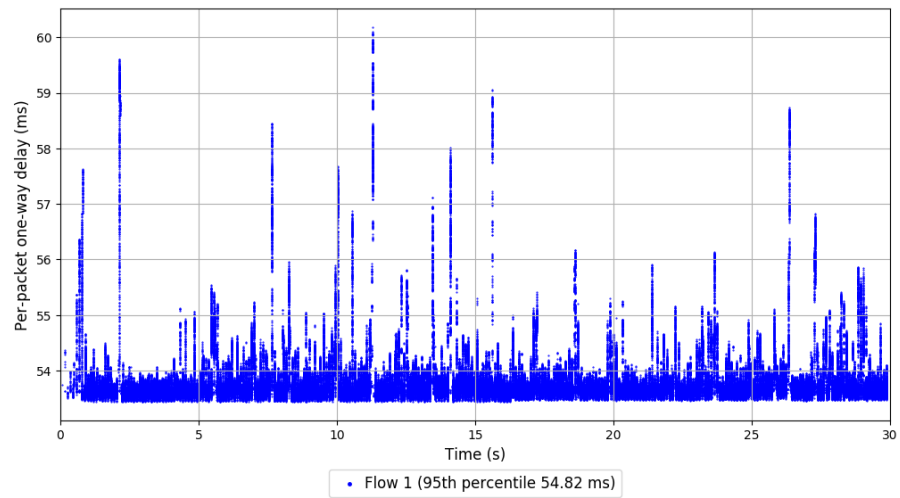
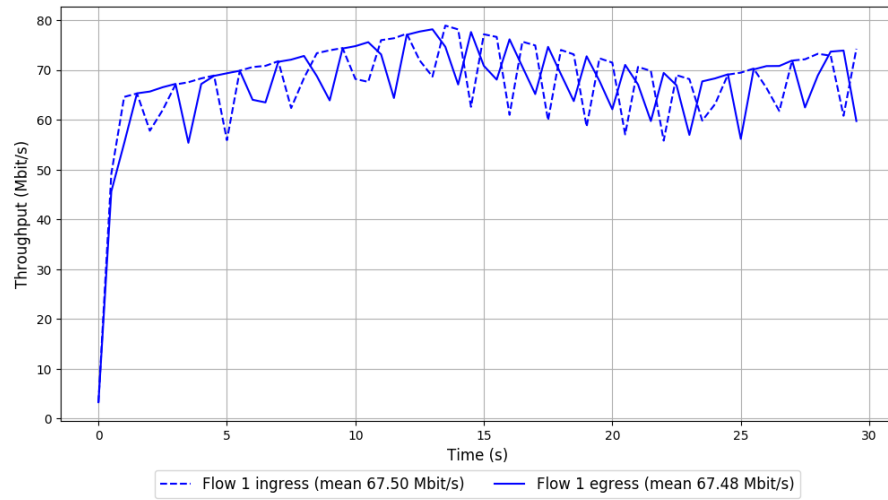
-- Flow 1:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.37%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-16 14:38:51

End at: 2018-01-16 14:39:21

Below is generated by plot.py at 2018-01-16 19:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.22 Mbit/s

95th percentile per-packet one-way delay: 133.517 ms

Loss rate: 1.69%

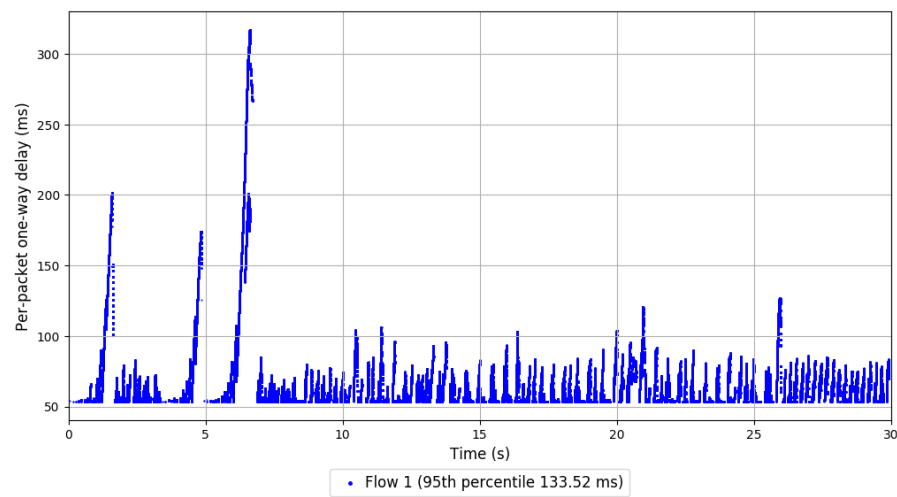
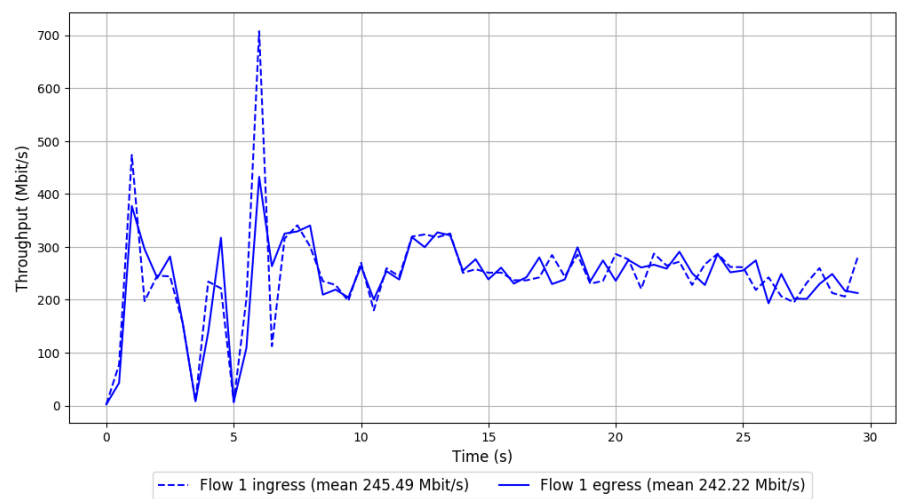
-- Flow 1:

Average throughput: 242.22 Mbit/s

95th percentile per-packet one-way delay: 133.517 ms

Loss rate: 1.69%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 14:52:31

End at: 2018-01-16 14:53:01

Below is generated by plot.py at 2018-01-16 19:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.97 Mbit/s

95th percentile per-packet one-way delay: 91.545 ms

Loss rate: 0.68%

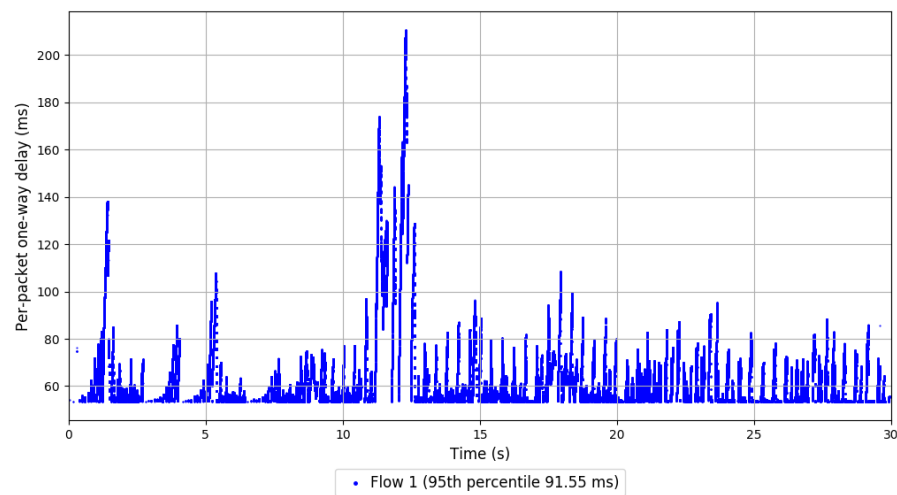
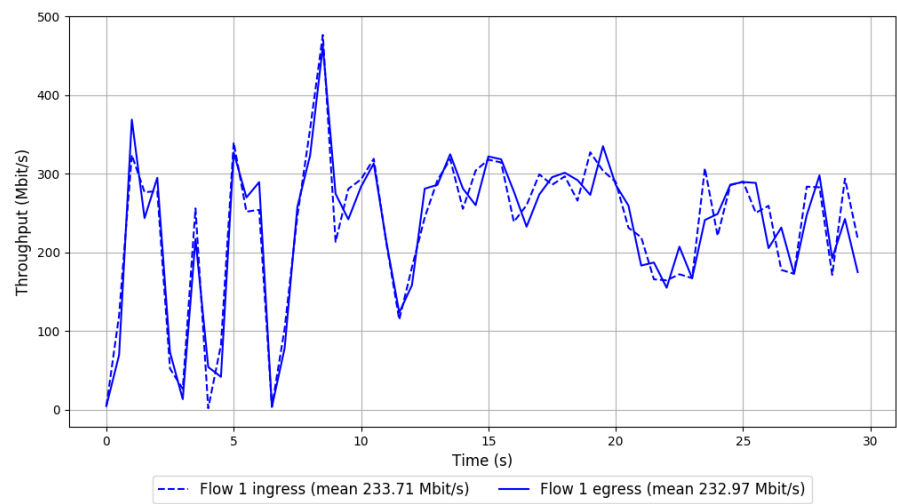
-- Flow 1:

Average throughput: 232.97 Mbit/s

95th percentile per-packet one-way delay: 91.545 ms

Loss rate: 0.68%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 15:07:04

End at: 2018-01-16 15:07:34

Below is generated by plot.py at 2018-01-16 19:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.82 Mbit/s

95th percentile per-packet one-way delay: 93.651 ms

Loss rate: 0.27%

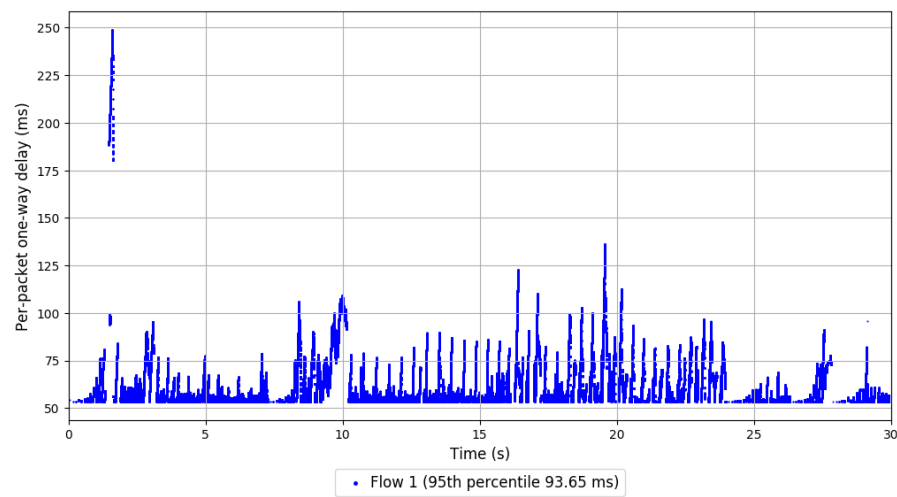
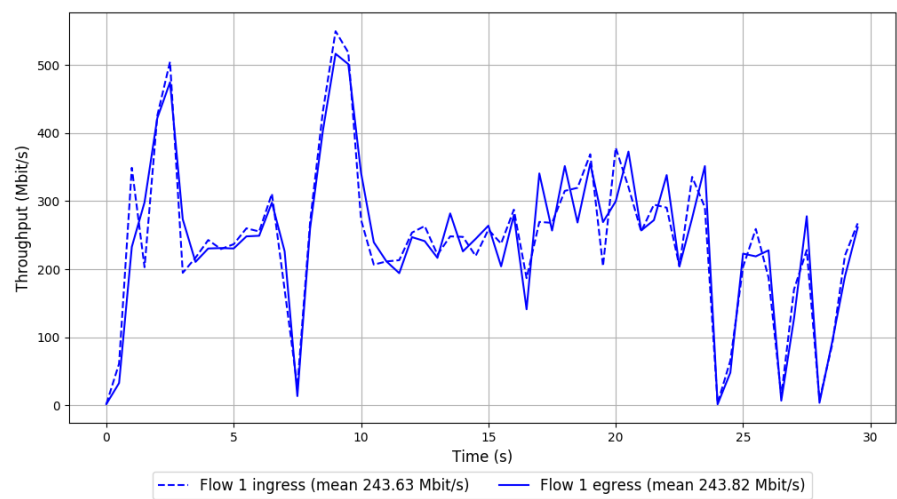
-- Flow 1:

Average throughput: 243.82 Mbit/s

95th percentile per-packet one-way delay: 93.651 ms

Loss rate: 0.27%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-16 15:21:22

End at: 2018-01-16 15:21:52

Below is generated by plot.py at 2018-01-16 19:51:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.23 Mbit/s

95th percentile per-packet one-way delay: 71.207 ms

Loss rate: 0.55%

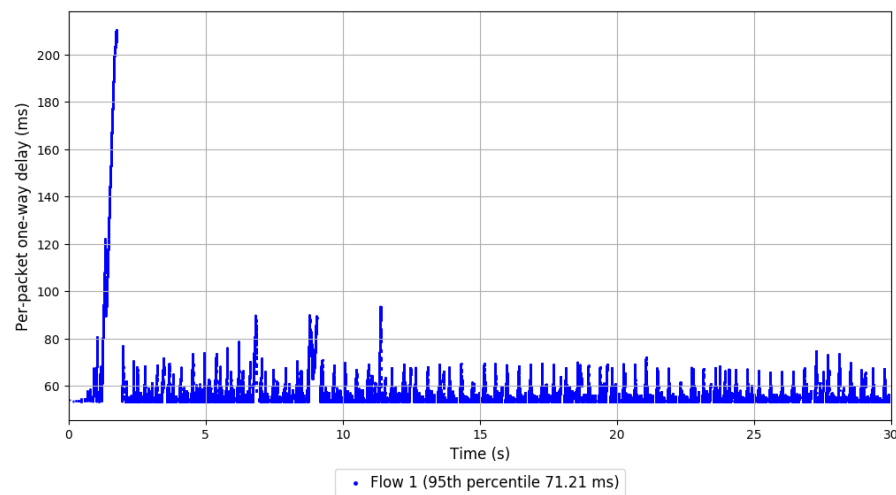
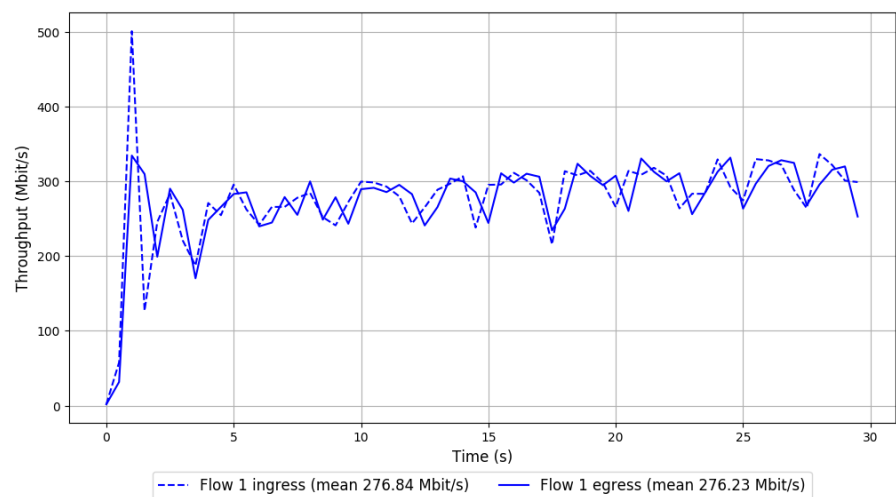
-- Flow 1:

Average throughput: 276.23 Mbit/s

95th percentile per-packet one-way delay: 71.207 ms

Loss rate: 0.55%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 15:35:49

End at: 2018-01-16 15:36:20

Below is generated by plot.py at 2018-01-16 19:51:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.47 Mbit/s

95th percentile per-packet one-way delay: 96.272 ms

Loss rate: 0.33%

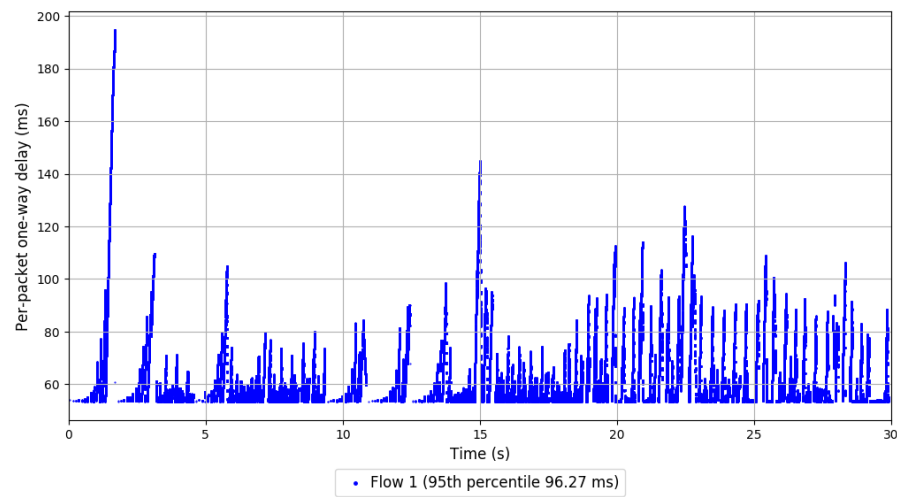
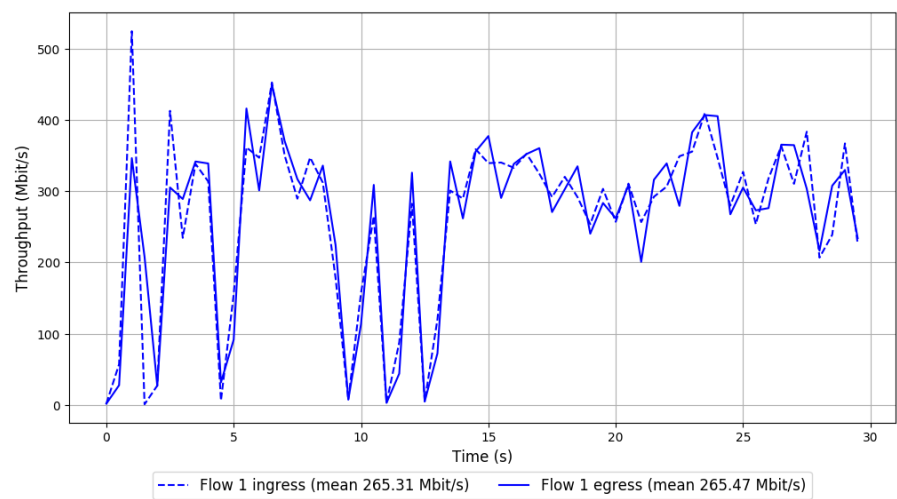
-- Flow 1:

Average throughput: 265.47 Mbit/s

95th percentile per-packet one-way delay: 96.272 ms

Loss rate: 0.33%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 15:49:43

End at: 2018-01-16 15:50:13

Below is generated by plot.py at 2018-01-16 19:51:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.63 Mbit/s

95th percentile per-packet one-way delay: 131.663 ms

Loss rate: 0.07%

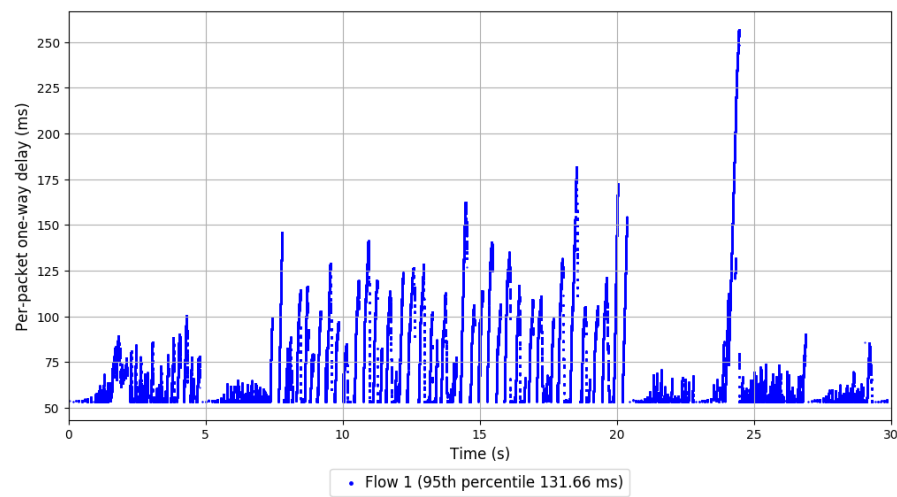
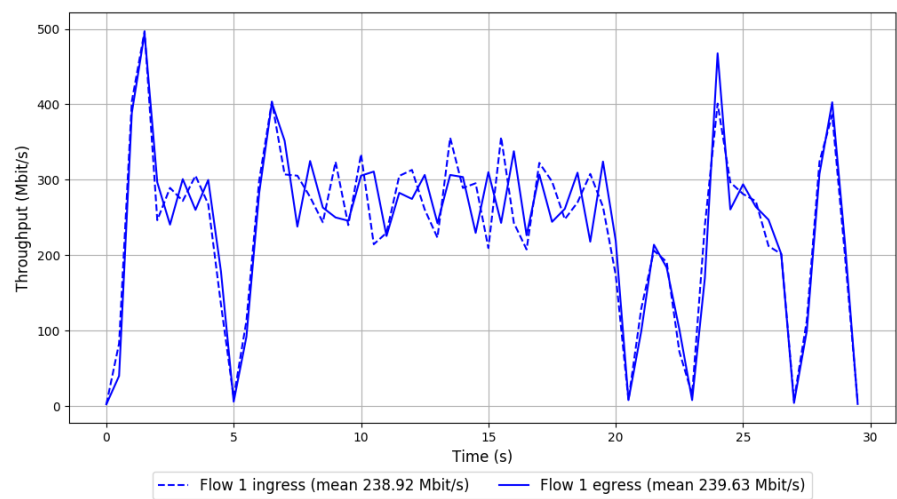
-- Flow 1:

Average throughput: 239.63 Mbit/s

95th percentile per-packet one-way delay: 131.663 ms

Loss rate: 0.07%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 16:03:55

End at: 2018-01-16 16:04:25

Below is generated by plot.py at 2018-01-16 19:51:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.12 Mbit/s

95th percentile per-packet one-way delay: 91.617 ms

Loss rate: 1.54%

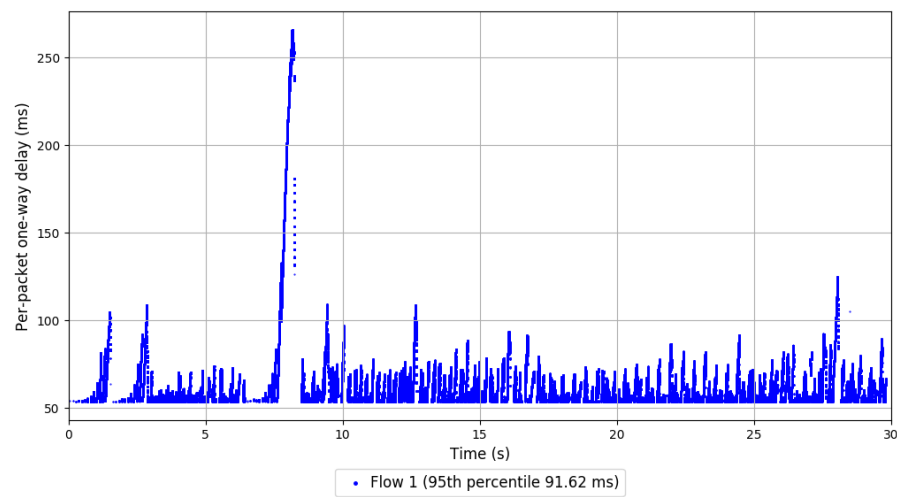
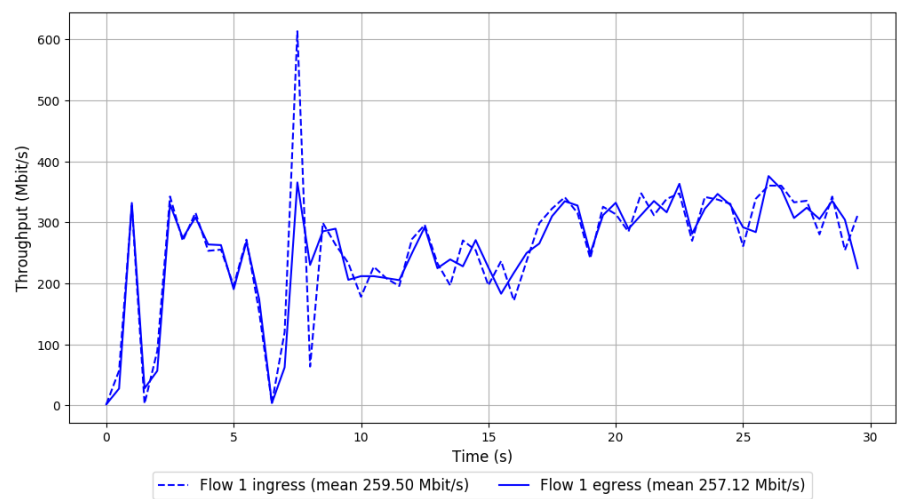
-- Flow 1:

Average throughput: 257.12 Mbit/s

95th percentile per-packet one-way delay: 91.617 ms

Loss rate: 1.54%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 16:18:08

End at: 2018-01-16 16:18:38

Below is generated by plot.py at 2018-01-16 19:51:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.41 Mbit/s

95th percentile per-packet one-way delay: 122.831 ms

Loss rate: 0.39%

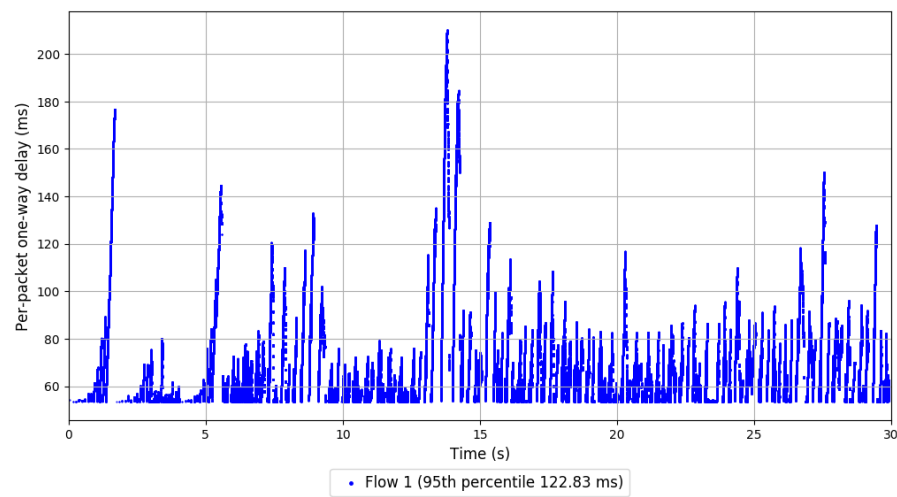
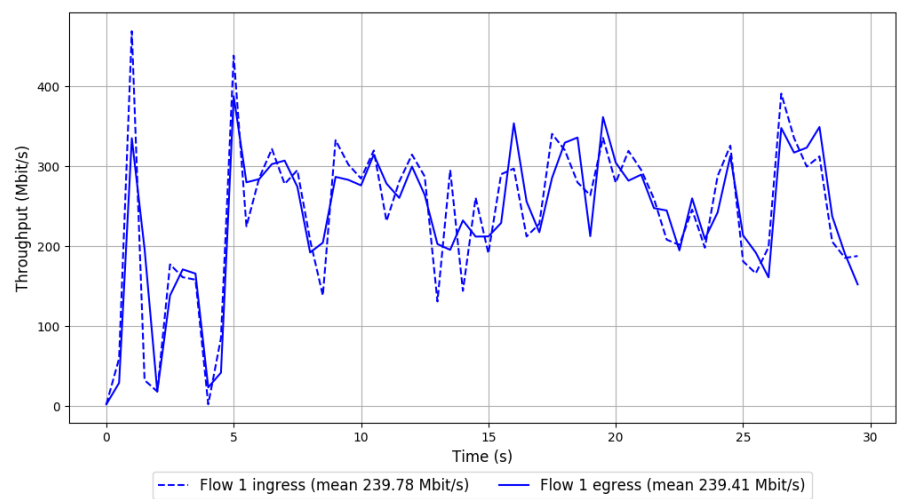
-- Flow 1:

Average throughput: 239.41 Mbit/s

95th percentile per-packet one-way delay: 122.831 ms

Loss rate: 0.39%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2018-01-16 16:32:46

Below is generated by plot.py at 2018-01-16 19:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.79 Mbit/s

95th percentile per-packet one-way delay: 120.650 ms

Loss rate: 0.66%

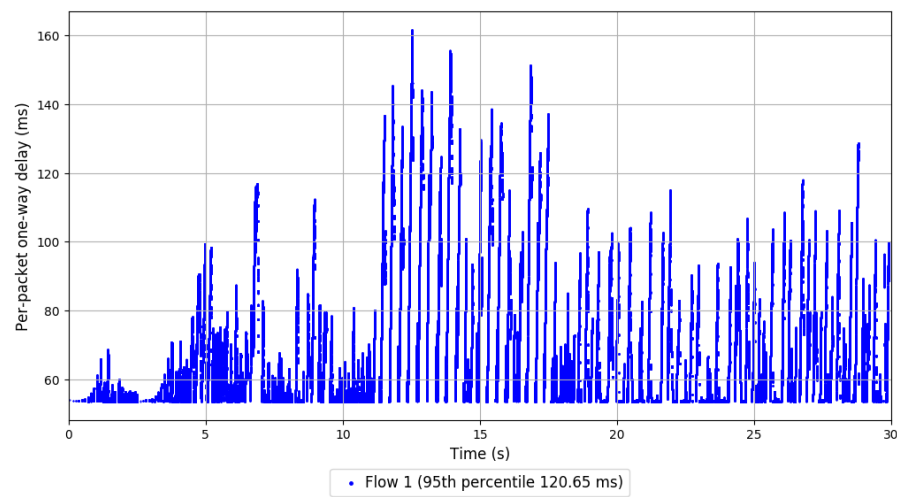
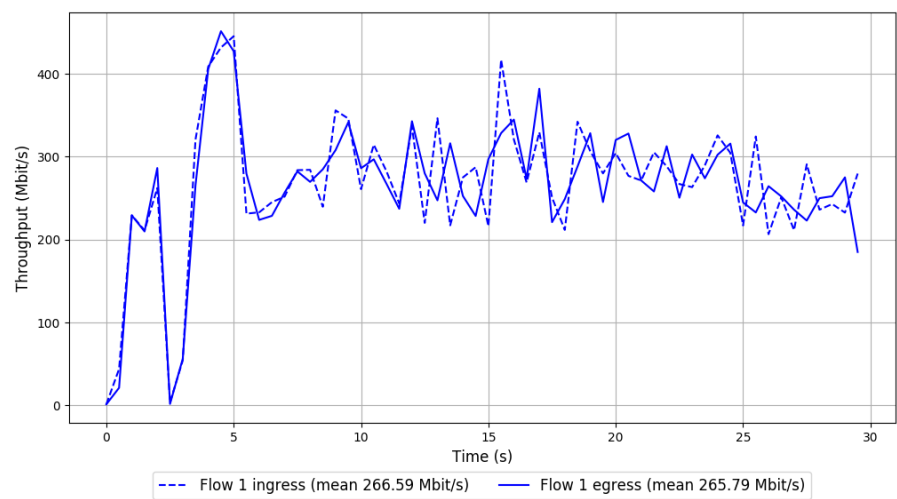
-- Flow 1:

Average throughput: 265.79 Mbit/s

95th percentile per-packet one-way delay: 120.650 ms

Loss rate: 0.66%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-16 16:46:25

End at: 2018-01-16 16:46:55

Below is generated by plot.py at 2018-01-16 19:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.62 Mbit/s

95th percentile per-packet one-way delay: 211.935 ms

Loss rate: 1.59%

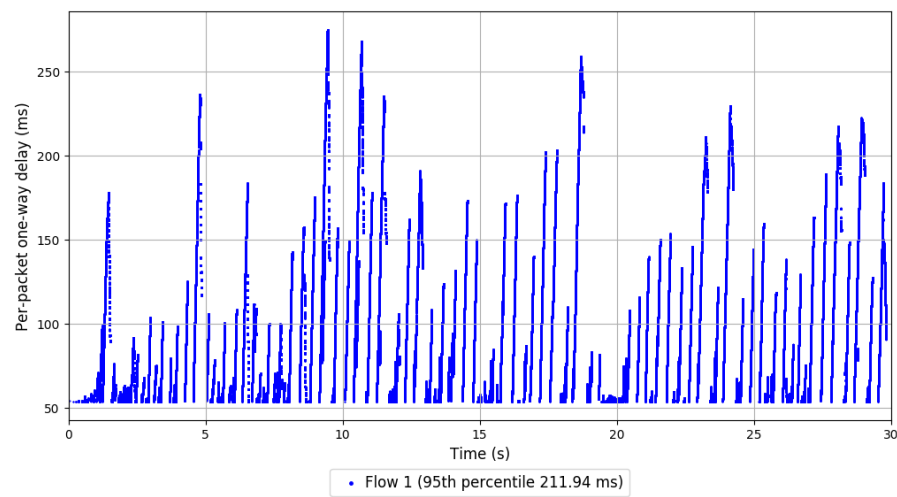
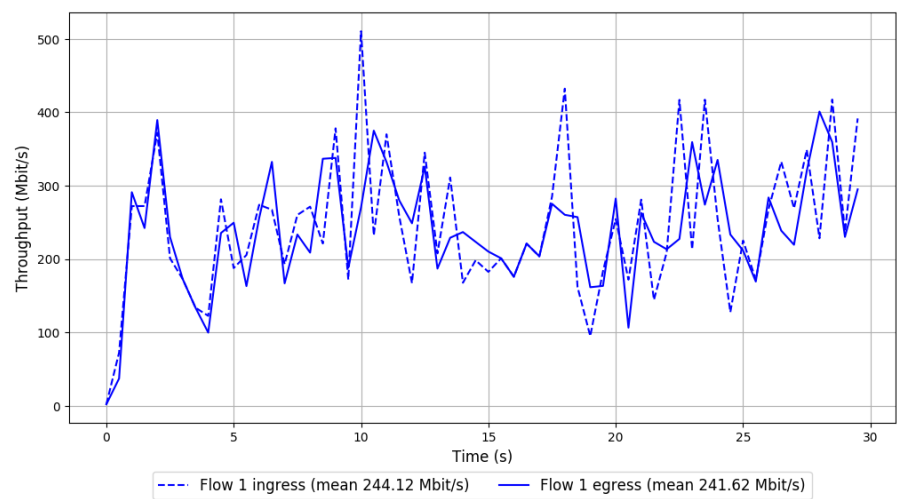
-- Flow 1:

Average throughput: 241.62 Mbit/s

95th percentile per-packet one-way delay: 211.935 ms

Loss rate: 1.59%

Run 10: Report of Verus — Data Link

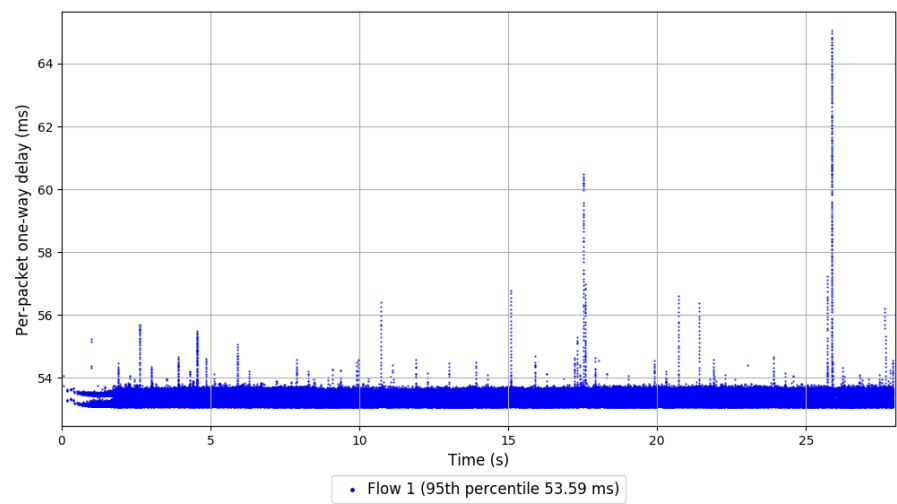
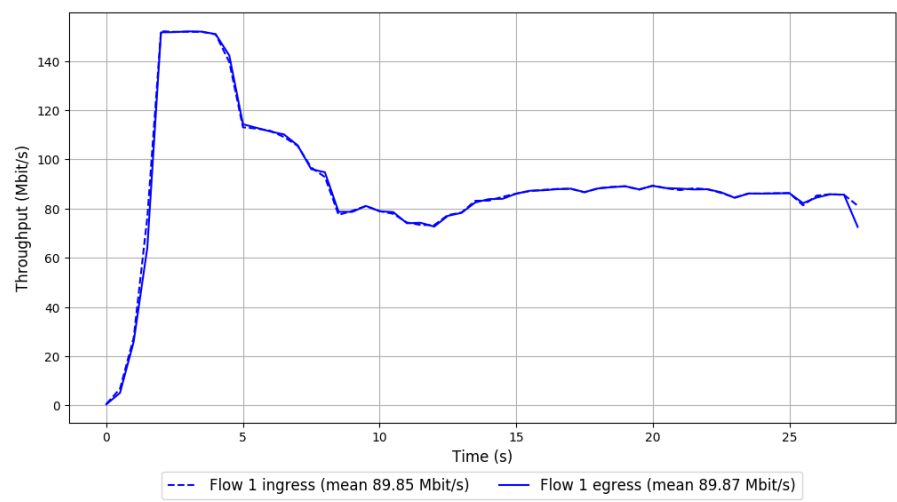


```
Run 1: Statistics of Copa

Start at: 2018-01-16 14:34:14
End at: 2018-01-16 14:34:44

# Below is generated by plot.py at 2018-01-16 19:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.35%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 14:47:49

End at: 2018-01-16 14:48:19

Below is generated by plot.py at 2018-01-16 19:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.41 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.18%

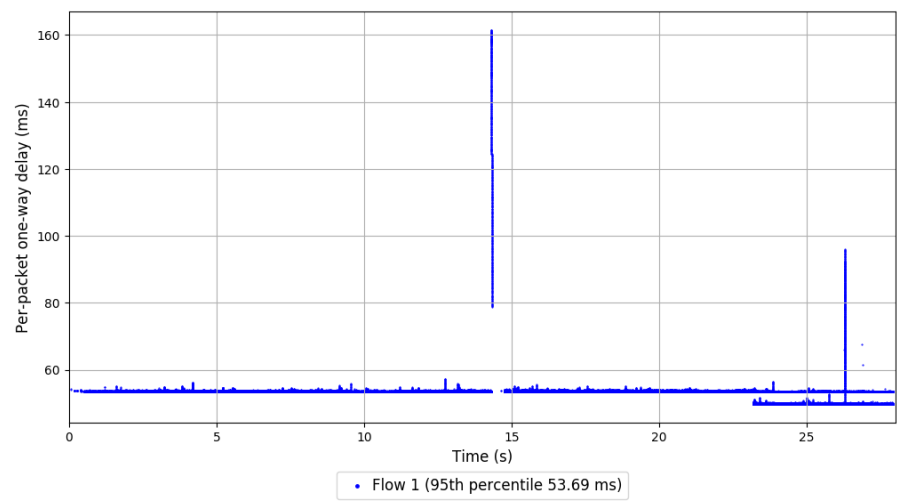
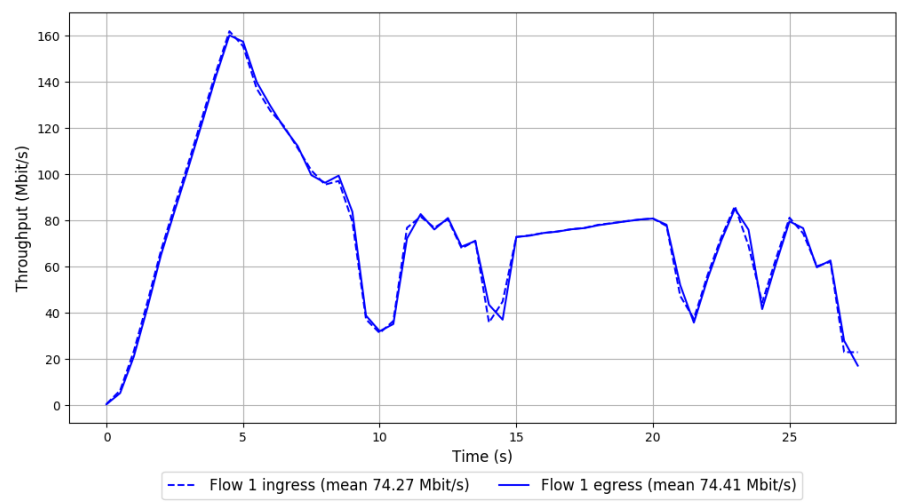
-- Flow 1:

Average throughput: 74.41 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.18%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-16 15:01:57

End at: 2018-01-16 15:02:27

Below is generated by plot.py at 2018-01-16 19:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.96 Mbit/s

95th percentile per-packet one-way delay: 53.639 ms

Loss rate: 0.37%

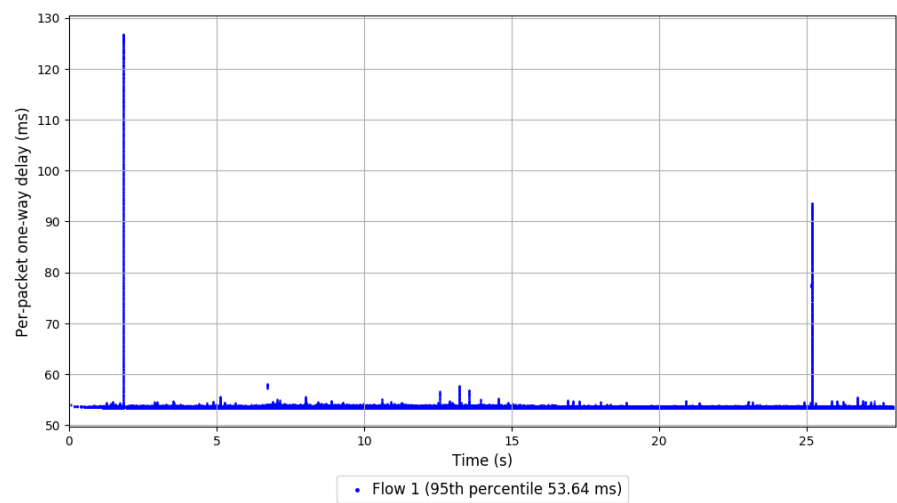
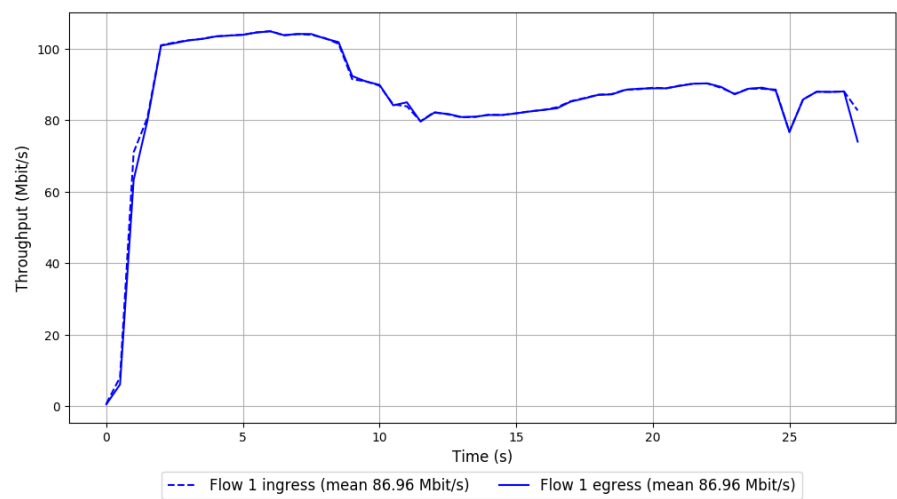
-- Flow 1:

Average throughput: 86.96 Mbit/s

95th percentile per-packet one-way delay: 53.639 ms

Loss rate: 0.37%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 15:16:34

End at: 2018-01-16 15:17:04

Below is generated by plot.py at 2018-01-16 19:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.30 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.00%

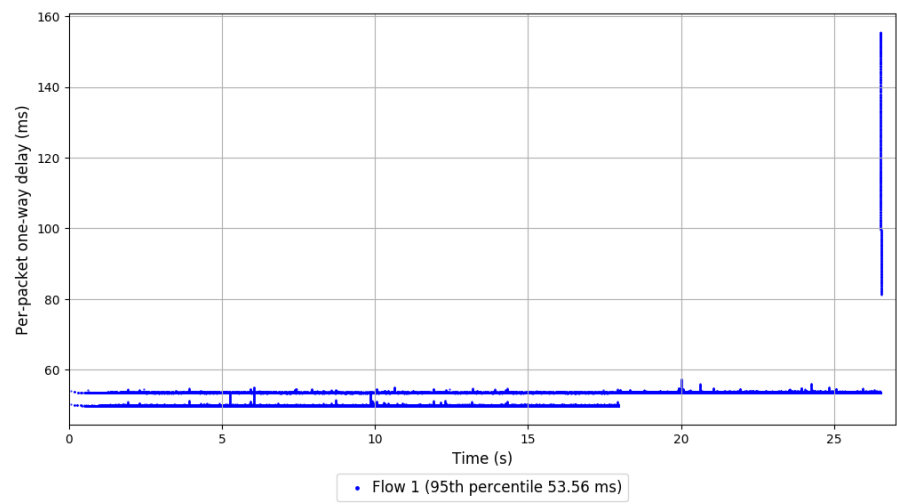
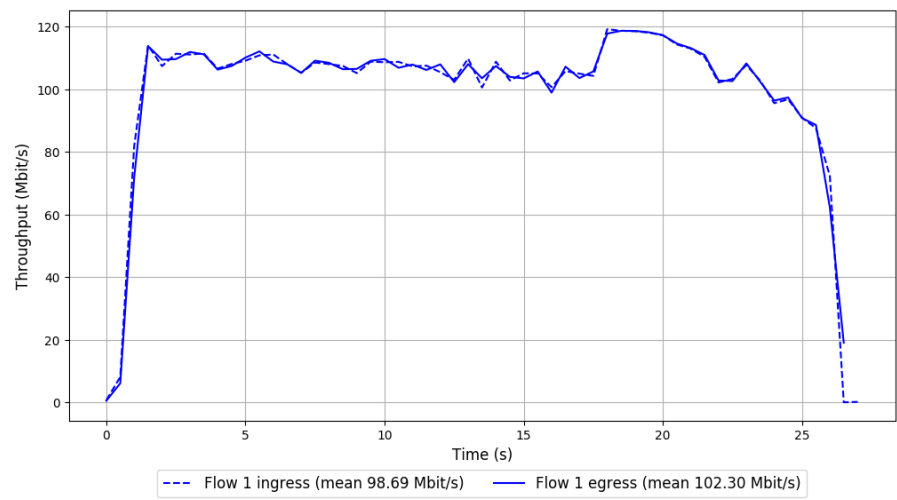
-- Flow 1:

Average throughput: 102.30 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-16 15:30:27

End at: 2018-01-16 15:30:57

Below is generated by plot.py at 2018-01-16 19:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 53.544 ms

Loss rate: 0.37%

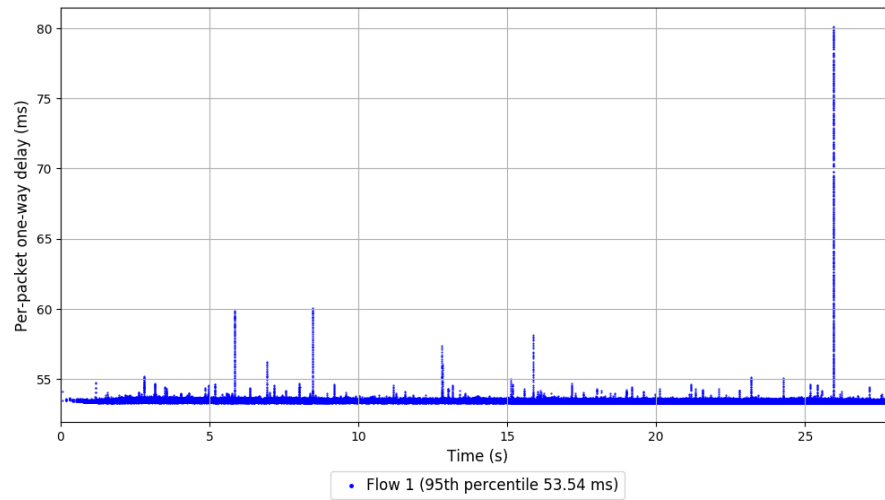
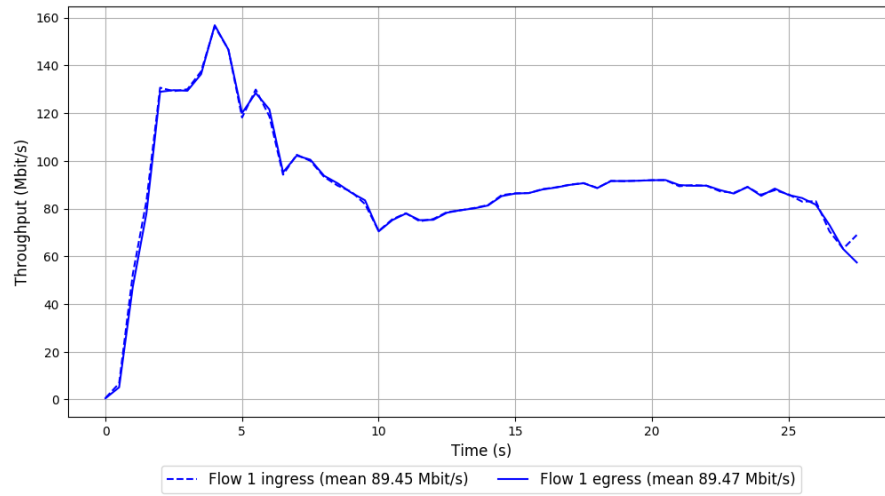
-- Flow 1:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 53.544 ms

Loss rate: 0.37%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 15:45:00

End at: 2018-01-16 15:45:30

Below is generated by plot.py at 2018-01-16 19:54:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.53 Mbit/s

95th percentile per-packet one-way delay: 53.563 ms

Loss rate: 0.37%

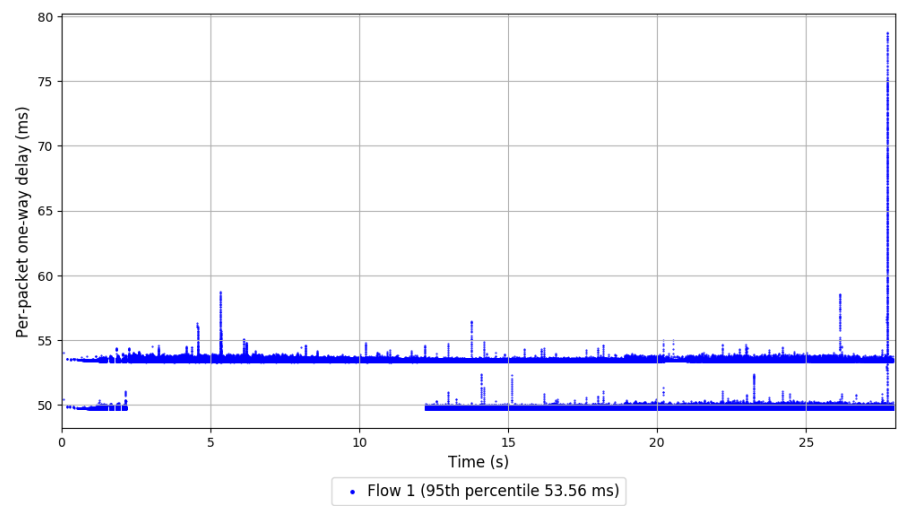
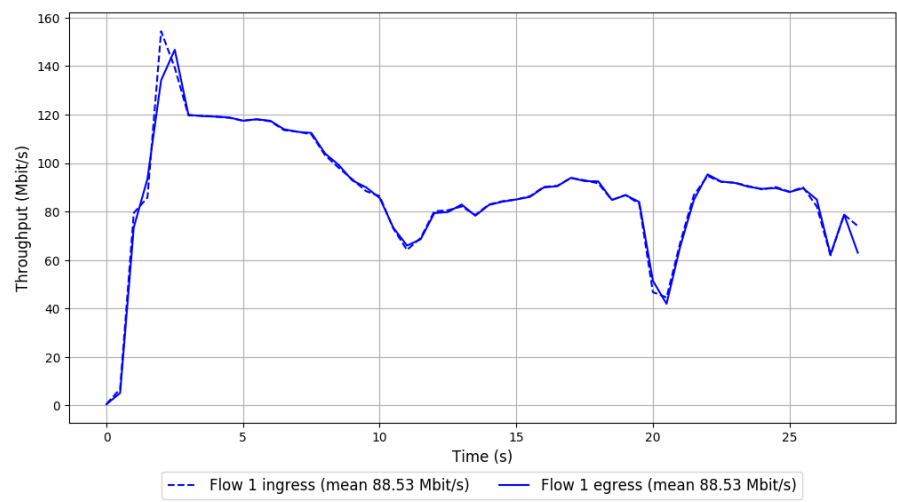
-- Flow 1:

Average throughput: 88.53 Mbit/s

95th percentile per-packet one-way delay: 53.563 ms

Loss rate: 0.37%

Run 6: Report of Copa — Data Link

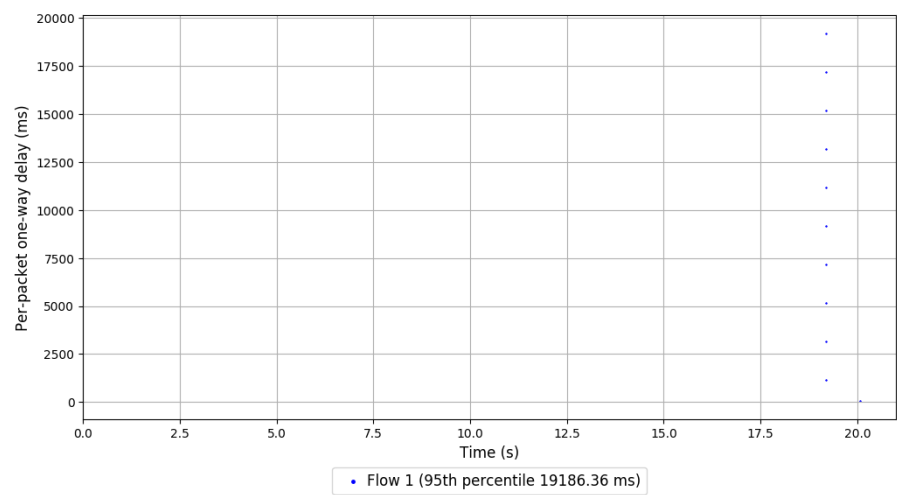
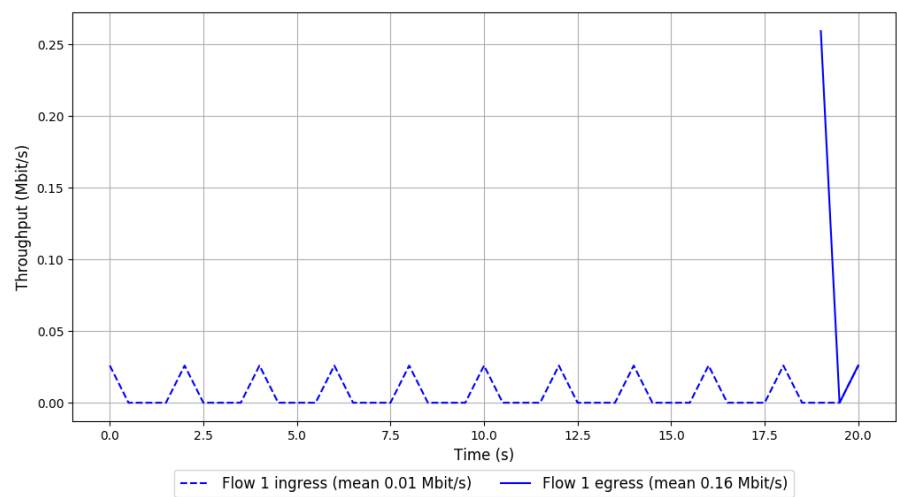


Run 7: Statistics of Copa

Start at: 2018-01-16 15:59:21

End at: 2018-01-16 15:59:51

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-16 16:13:18

End at: 2018-01-16 16:13:48

Below is generated by plot.py at 2018-01-16 19:55:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.66%

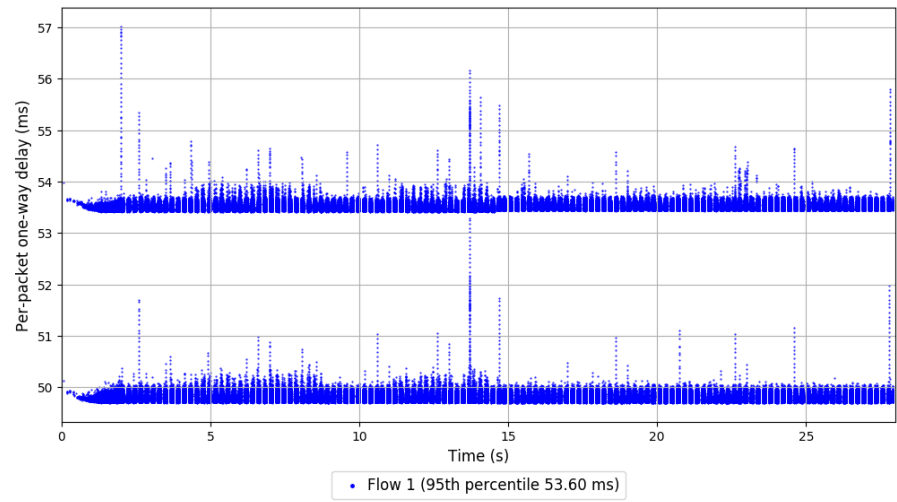
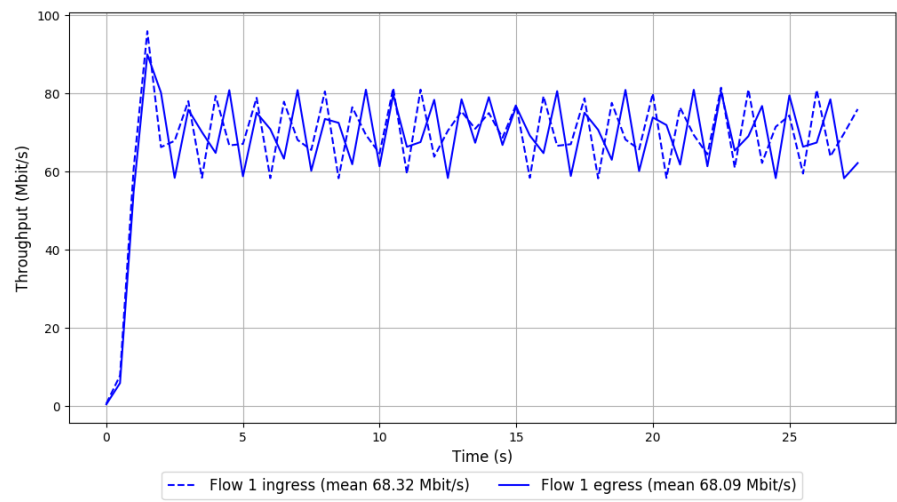
-- Flow 1:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.66%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-16 16:27:27

End at: 2018-01-16 16:27:57

Below is generated by plot.py at 2018-01-16 19:55:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.55 Mbit/s

95th percentile per-packet one-way delay: 53.649 ms

Loss rate: 0.25%

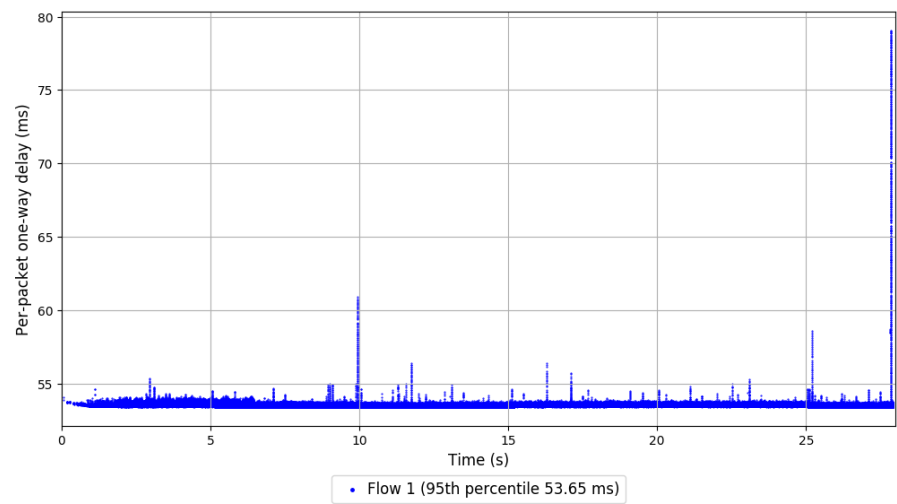
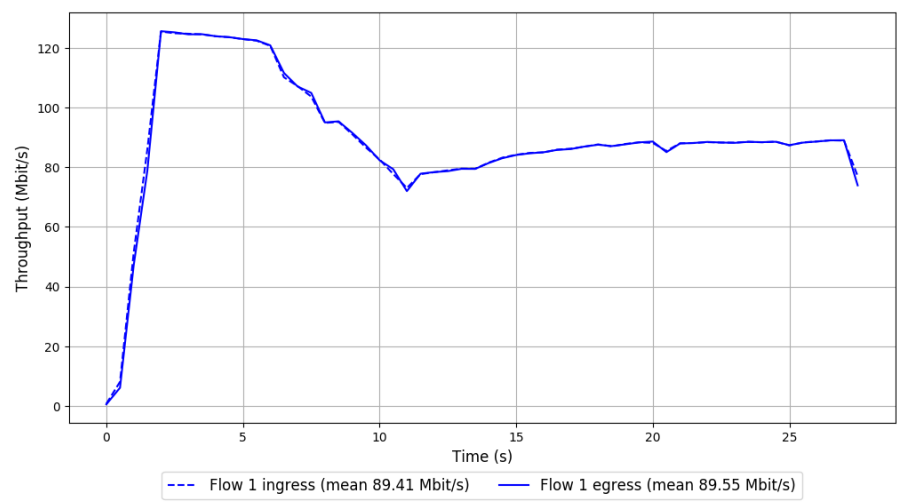
-- Flow 1:

Average throughput: 89.55 Mbit/s

95th percentile per-packet one-way delay: 53.649 ms

Loss rate: 0.25%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 16:41:23

End at: 2018-01-16 16:41:53

Below is generated by plot.py at 2018-01-16 19:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.39%

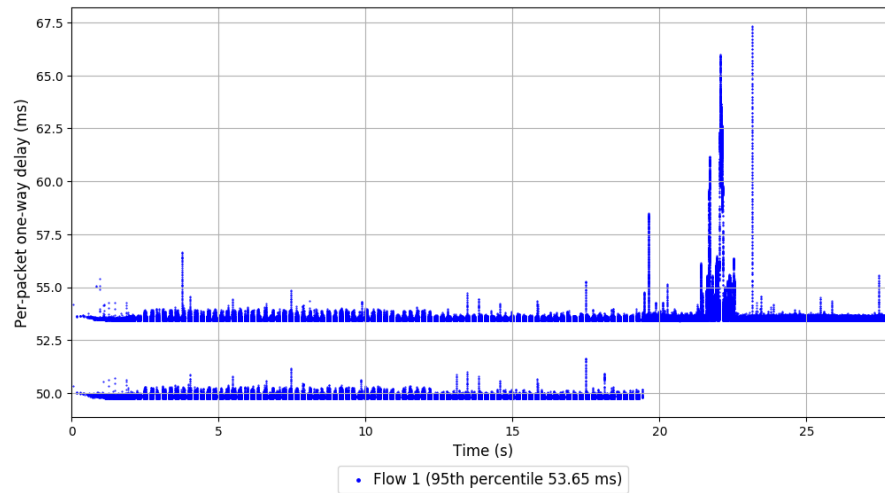
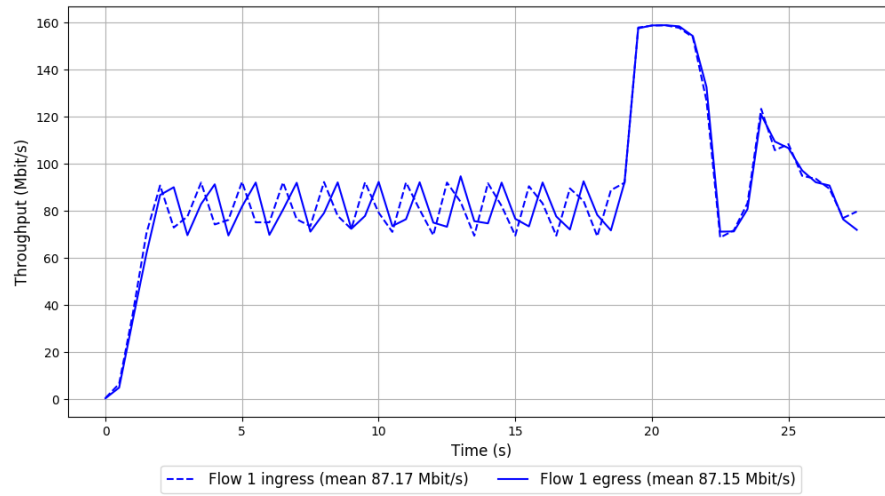
-- Flow 1:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.39%

Run 10: Report of Copa — Data Link

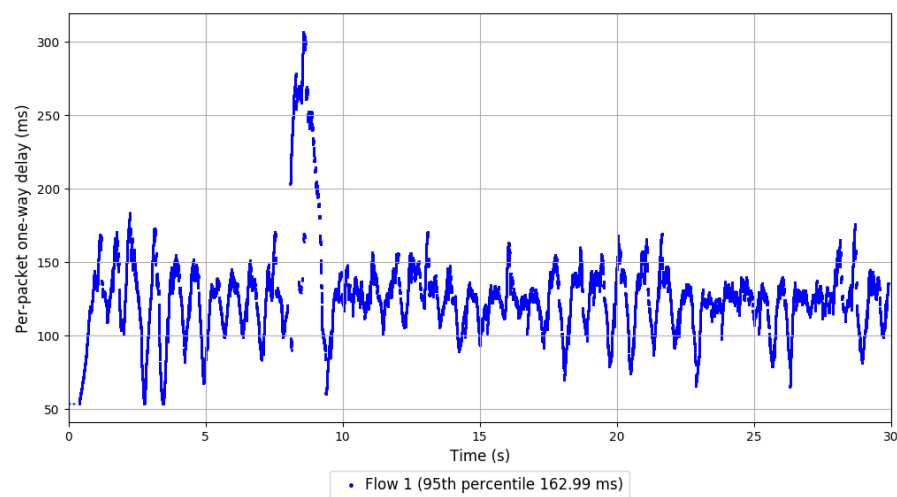
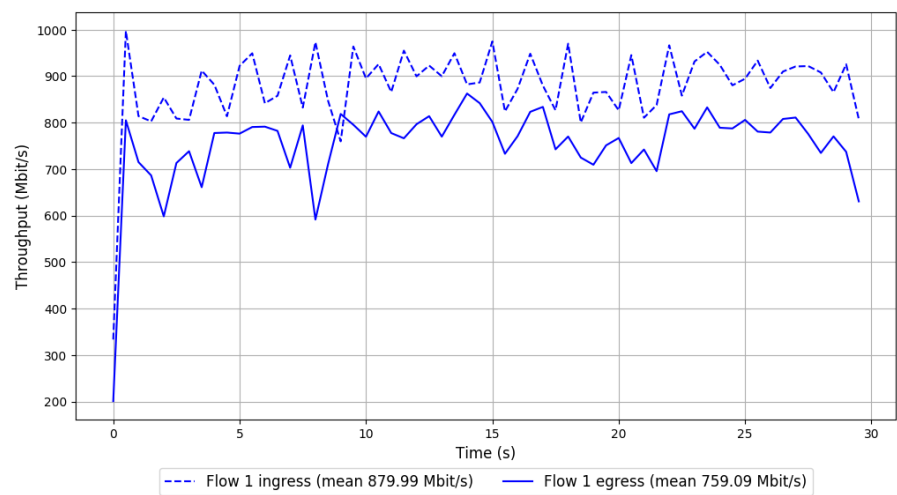


```
Run 1: Statistics of FillP

Start at: 2018-01-16 14:40:59
End at: 2018-01-16 14:41:29

# Below is generated by plot.py at 2018-01-16 20:09:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 759.09 Mbit/s
95th percentile per-packet one-way delay: 162.988 ms
Loss rate: 14.04%
-- Flow 1:
Average throughput: 759.09 Mbit/s
95th percentile per-packet one-way delay: 162.988 ms
Loss rate: 14.04%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-16 14:54:39

End at: 2018-01-16 14:55:09

Below is generated by plot.py at 2018-01-16 20:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.67 Mbit/s

95th percentile per-packet one-way delay: 179.768 ms

Loss rate: 8.55%

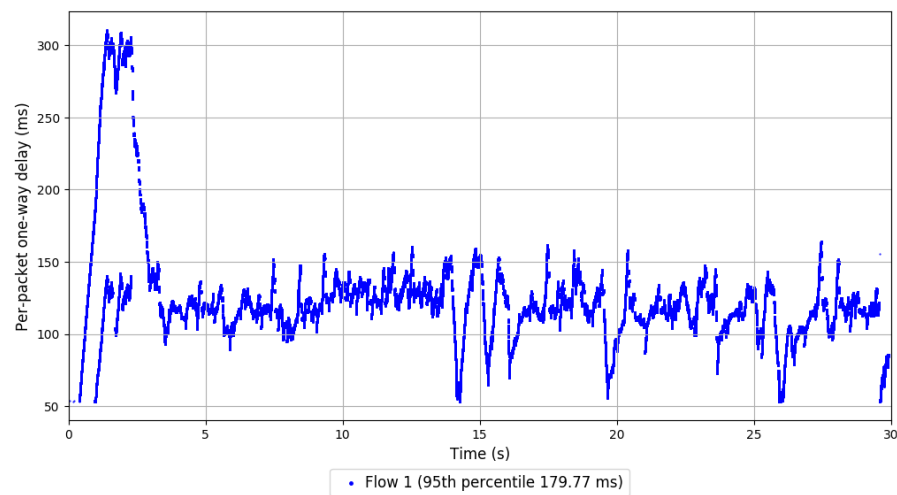
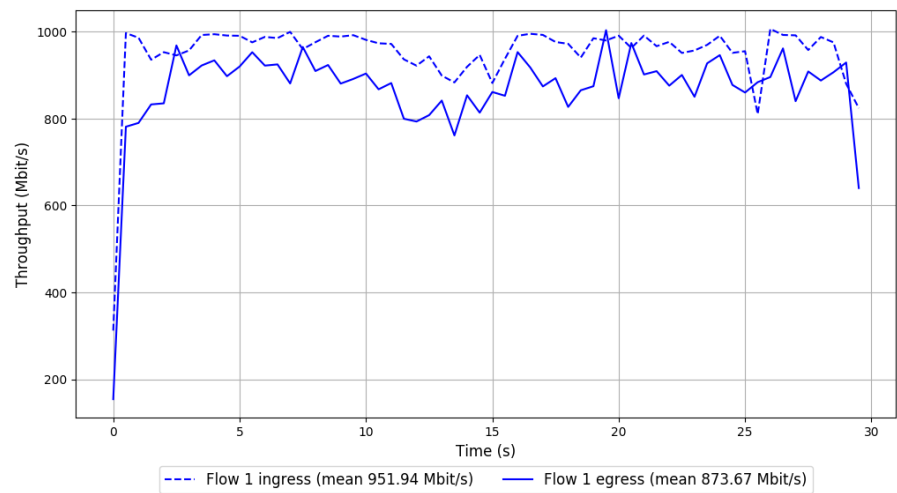
-- Flow 1:

Average throughput: 873.67 Mbit/s

95th percentile per-packet one-way delay: 179.768 ms

Loss rate: 8.55%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 15:09:13

End at: 2018-01-16 15:09:43

Below is generated by plot.py at 2018-01-16 20:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 858.26 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 9.92%

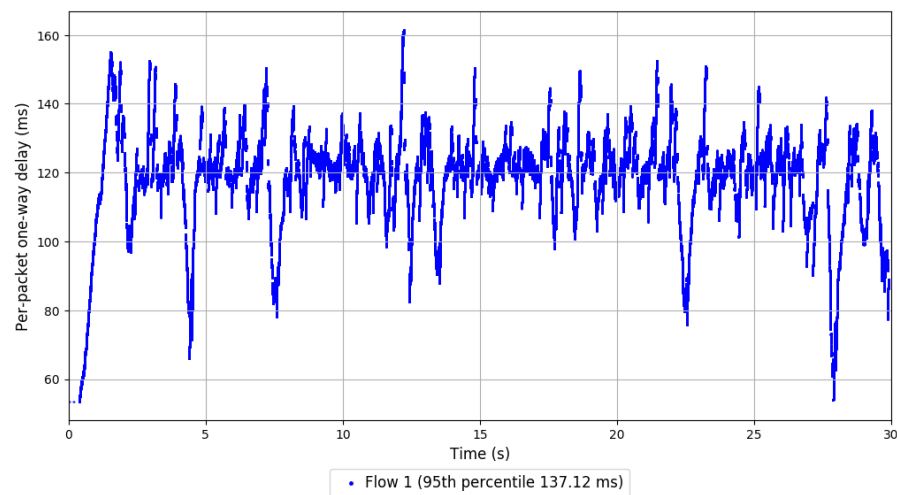
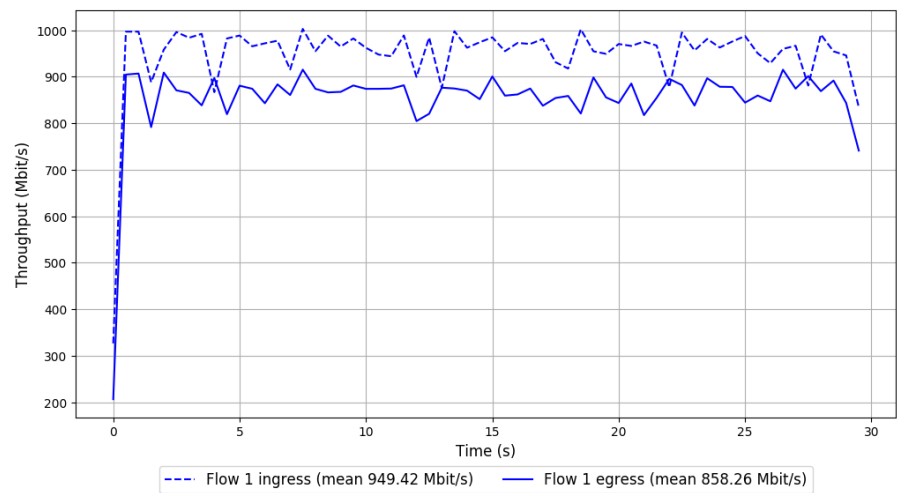
-- Flow 1:

Average throughput: 858.26 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 9.92%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 15:23:32

End at: 2018-01-16 15:24:02

Below is generated by plot.py at 2018-01-16 20:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 657.95 Mbit/s

95th percentile per-packet one-way delay: 160.789 ms

Loss rate: 7.33%

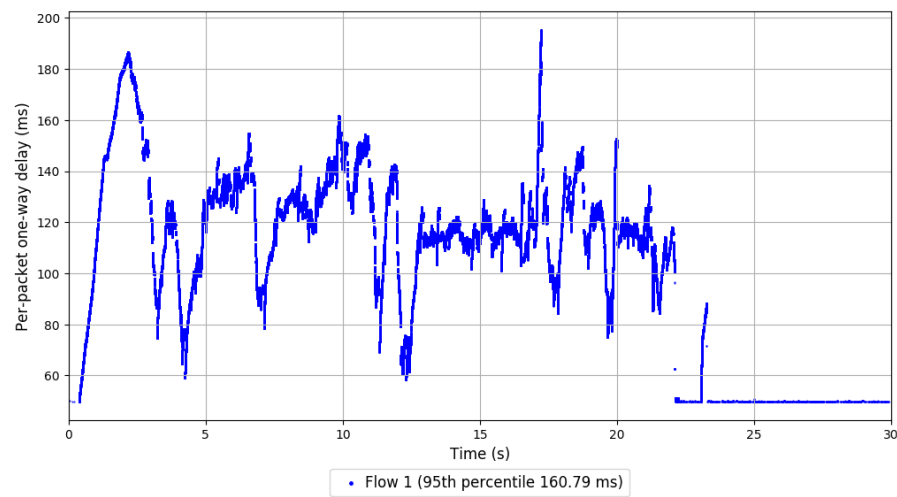
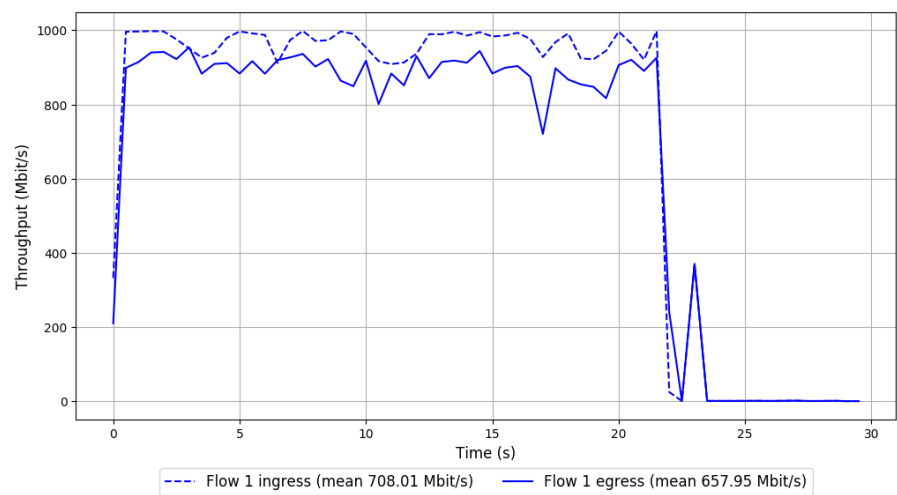
-- Flow 1:

Average throughput: 657.95 Mbit/s

95th percentile per-packet one-way delay: 160.789 ms

Loss rate: 7.33%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 15:37:59

End at: 2018-01-16 15:38:29

Below is generated by plot.py at 2018-01-16 20:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 835.08 Mbit/s

95th percentile per-packet one-way delay: 147.784 ms

Loss rate: 10.94%

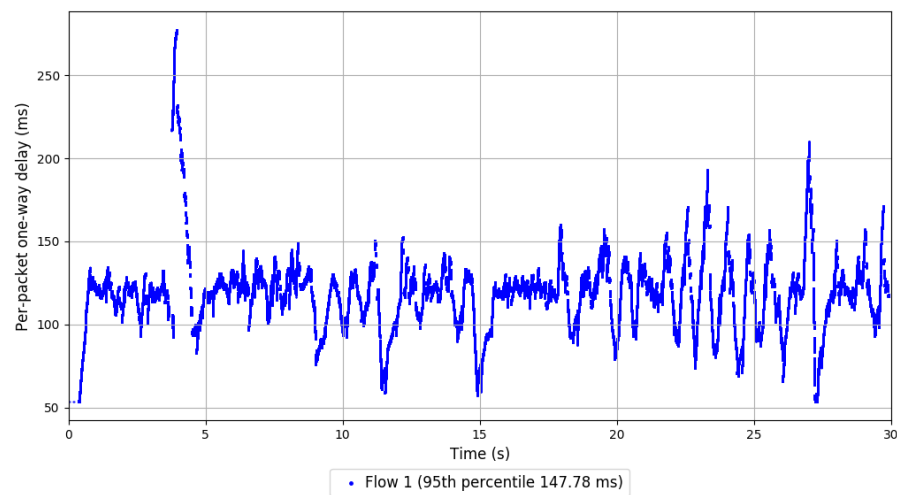
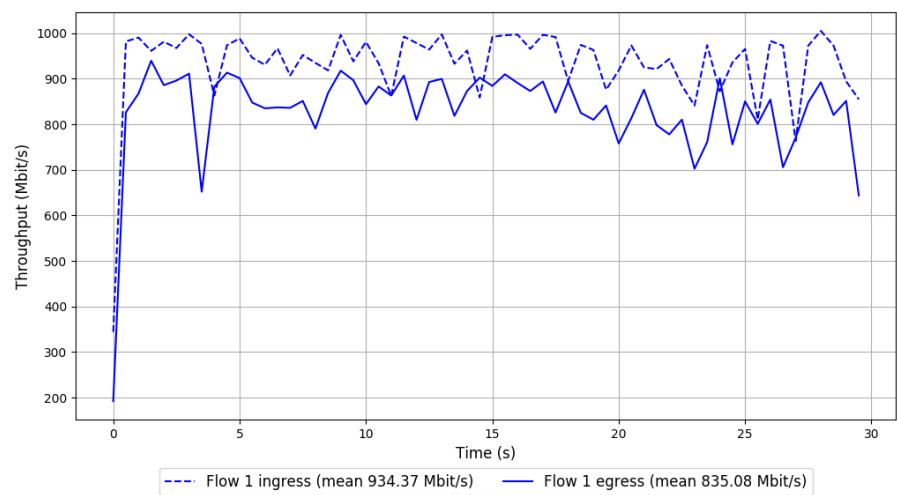
-- Flow 1:

Average throughput: 835.08 Mbit/s

95th percentile per-packet one-way delay: 147.784 ms

Loss rate: 10.94%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 15:51:51

End at: 2018-01-16 15:52:21

Below is generated by plot.py at 2018-01-16 20:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 891.03 Mbit/s

95th percentile per-packet one-way delay: 154.955 ms

Loss rate: 7.98%

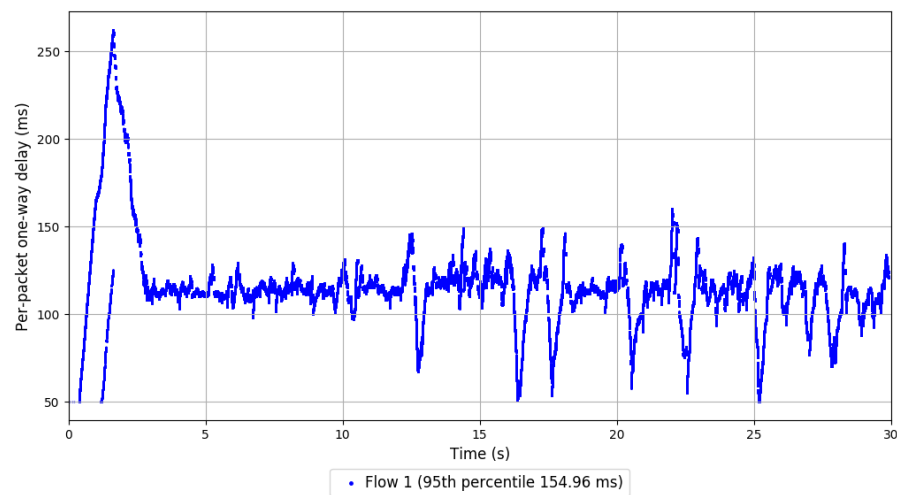
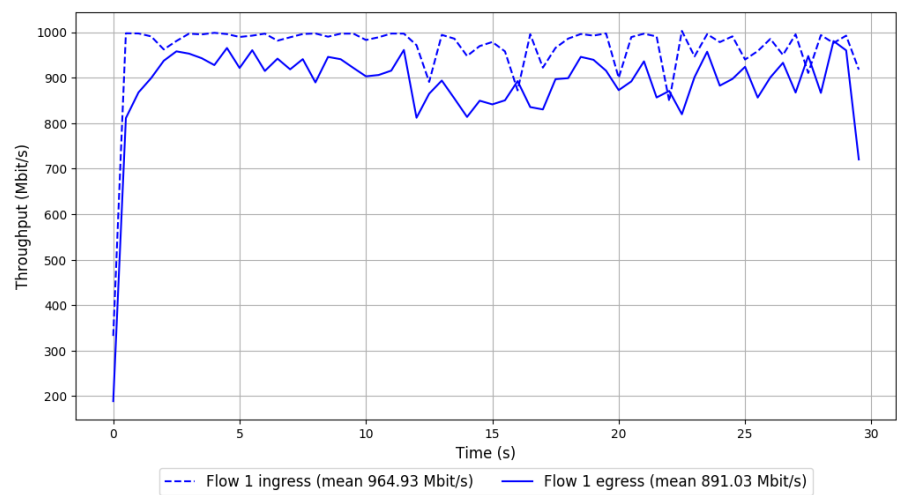
-- Flow 1:

Average throughput: 891.03 Mbit/s

95th percentile per-packet one-way delay: 154.955 ms

Loss rate: 7.98%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 16:06:06

End at: 2018-01-16 16:06:36

Below is generated by plot.py at 2018-01-16 20:11:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.81 Mbit/s

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

Loss rate: 10.34%

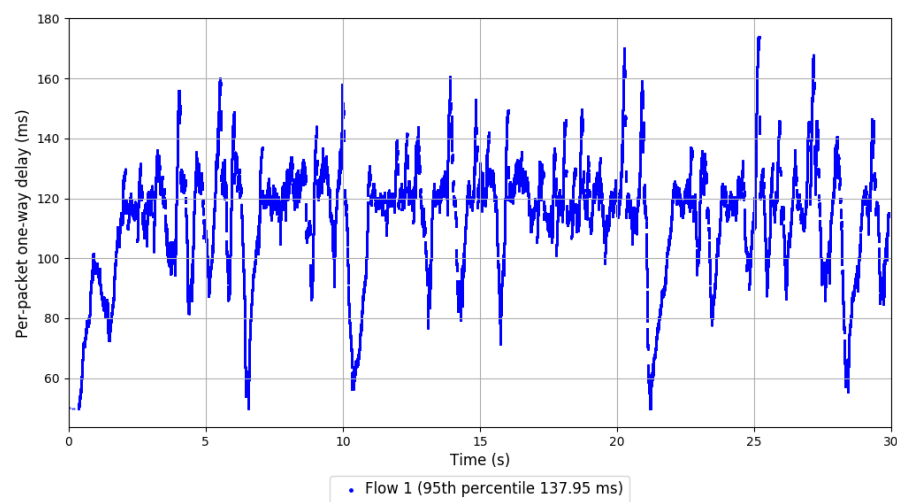
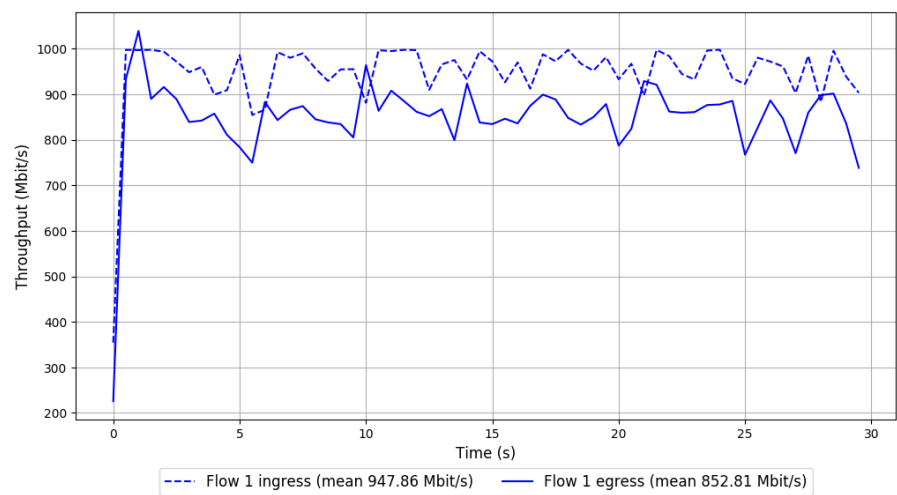
-- Flow 1:

Average throughput: 852.81 Mbit/s

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

Loss rate: 10.34%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-16 16:20:17

End at: 2018-01-16 16:20:47

Below is generated by plot.py at 2018-01-16 20:12:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 866.50 Mbit/s

95th percentile per-packet one-way delay: 150.300 ms

Loss rate: 8.01%

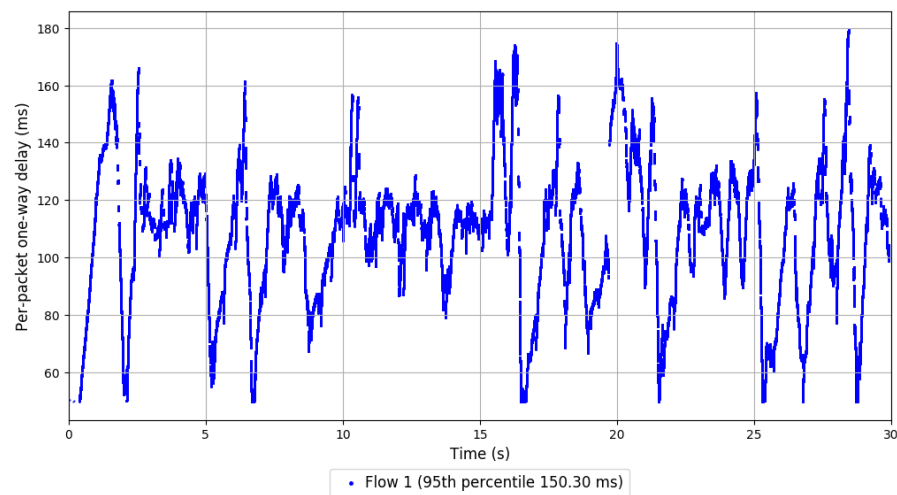
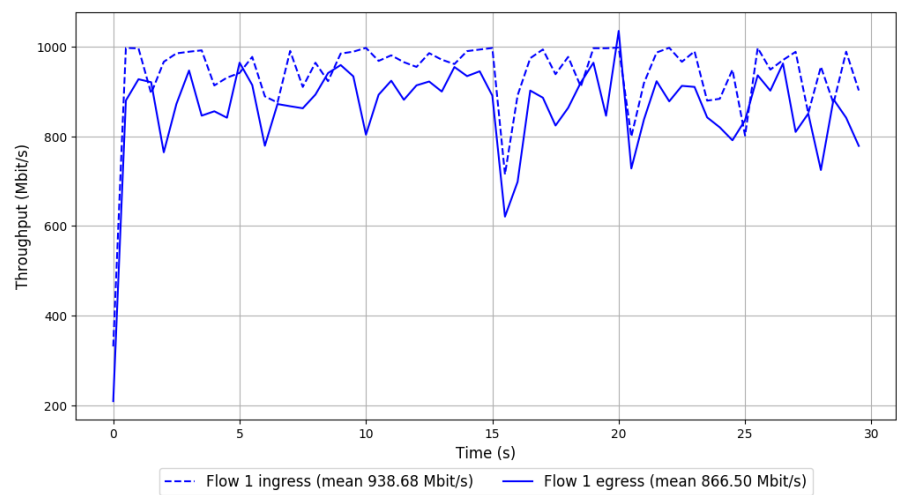
-- Flow 1:

Average throughput: 866.50 Mbit/s

95th percentile per-packet one-way delay: 150.300 ms

Loss rate: 8.01%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-16 16:34:27

End at: 2018-01-16 16:34:57

Below is generated by plot.py at 2018-01-16 20:25:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.87 Mbit/s

95th percentile per-packet one-way delay: 140.678 ms

Loss rate: 9.31%

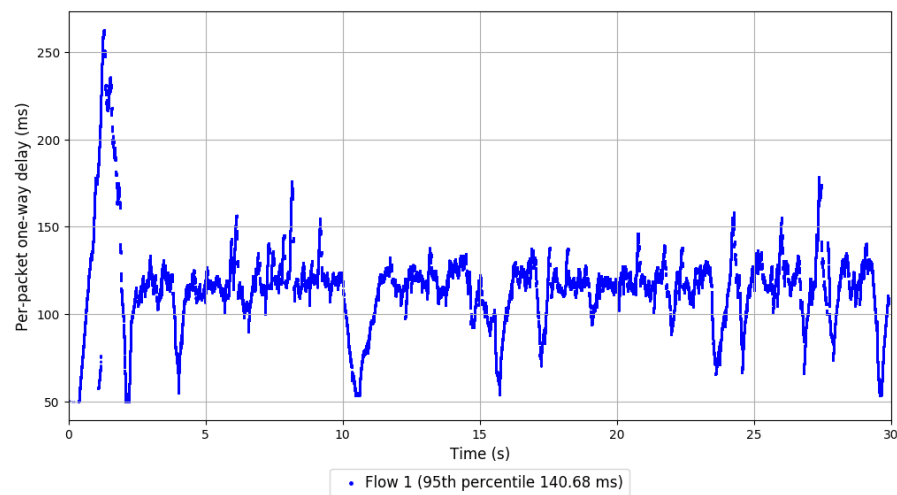
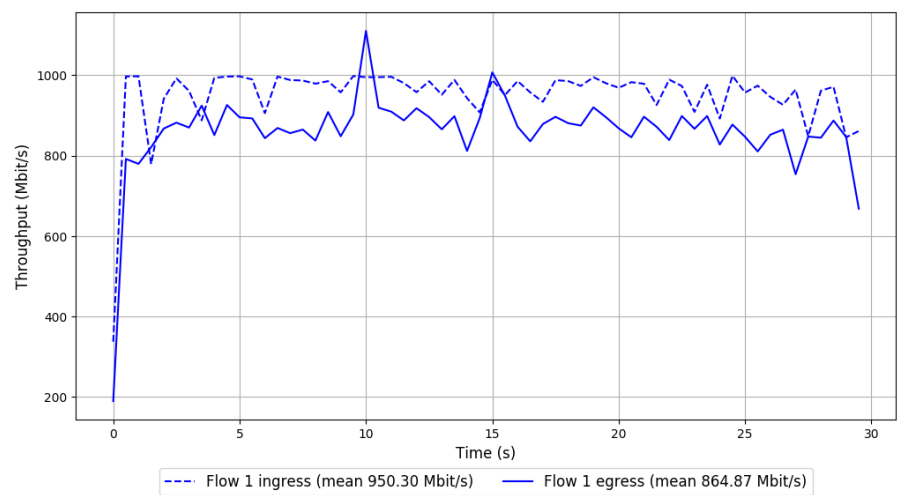
-- Flow 1:

Average throughput: 864.87 Mbit/s

95th percentile per-packet one-way delay: 140.678 ms

Loss rate: 9.31%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-16 16:48:34

End at: 2018-01-16 16:49:04

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 875.50 Mbit/s

95th percentile per-packet one-way delay: 135.297 ms

Loss rate: 8.66%

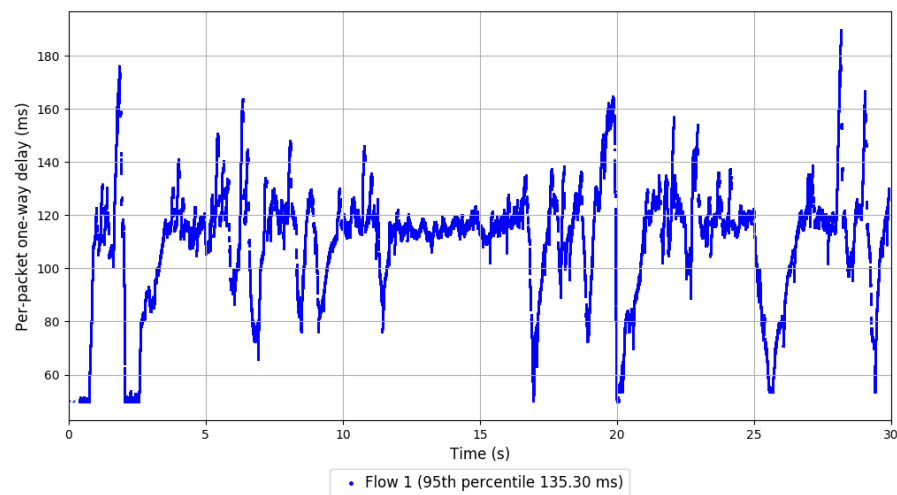
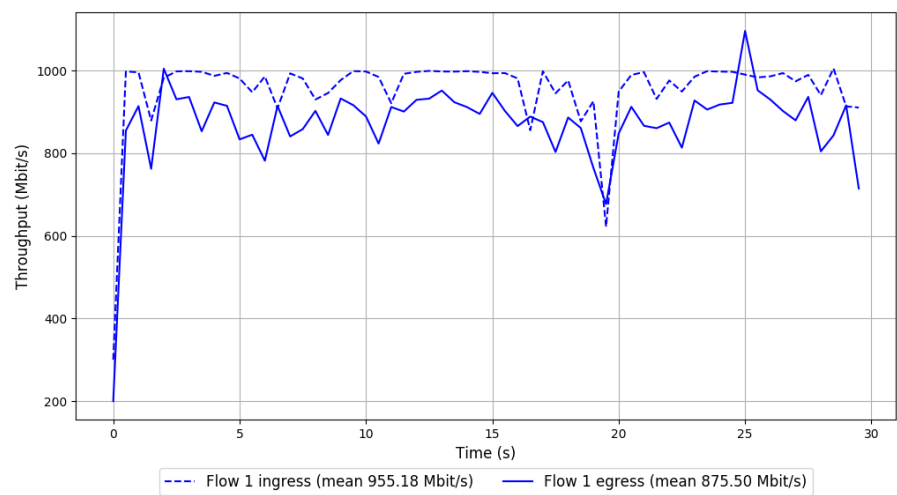
-- Flow 1:

Average throughput: 875.50 Mbit/s

95th percentile per-packet one-way delay: 135.297 ms

Loss rate: 8.66%

Run 10: Report of FillP — Data Link

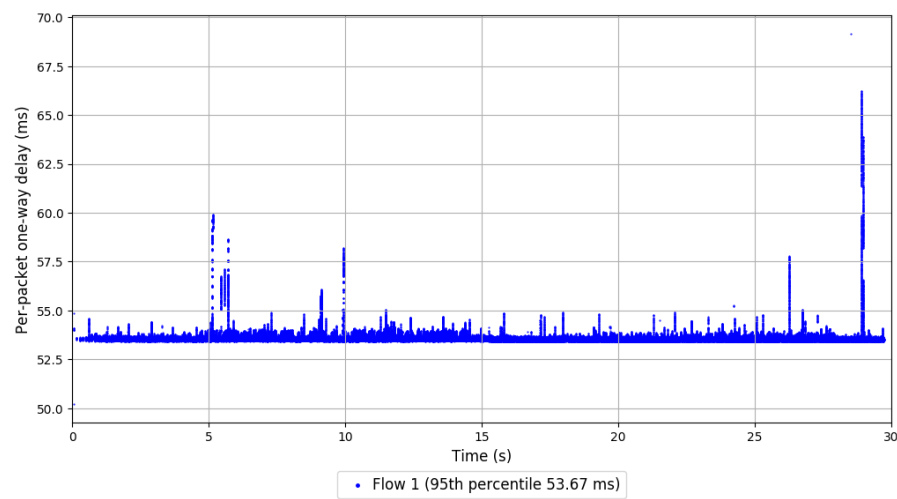
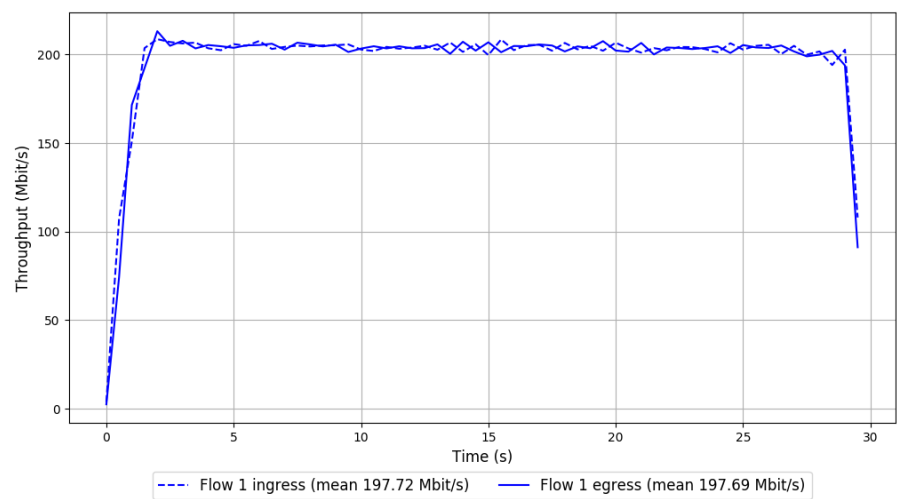


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 14:42:09
End at: 2018-01-16 14:42:39

# Below is generated by plot.py at 2018-01-16 20:25:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.69 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 197.69 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 14:55:52

End at: 2018-01-16 14:56:22

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.48 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.36%

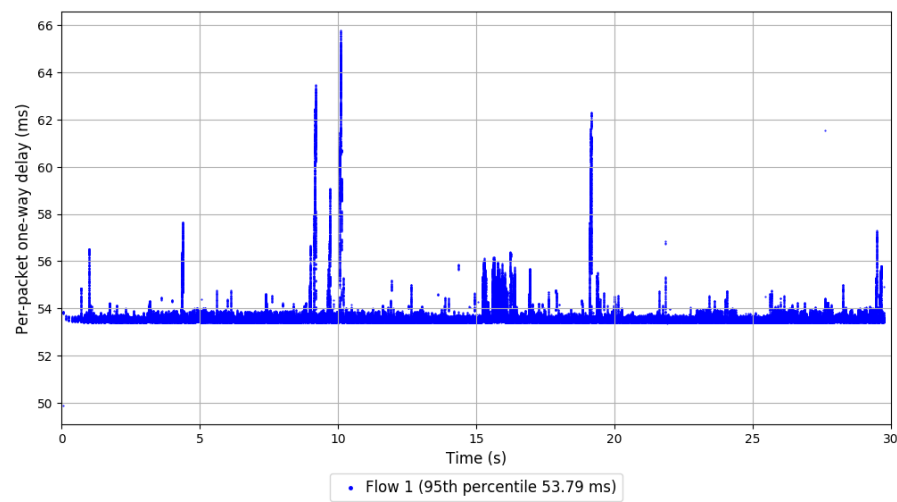
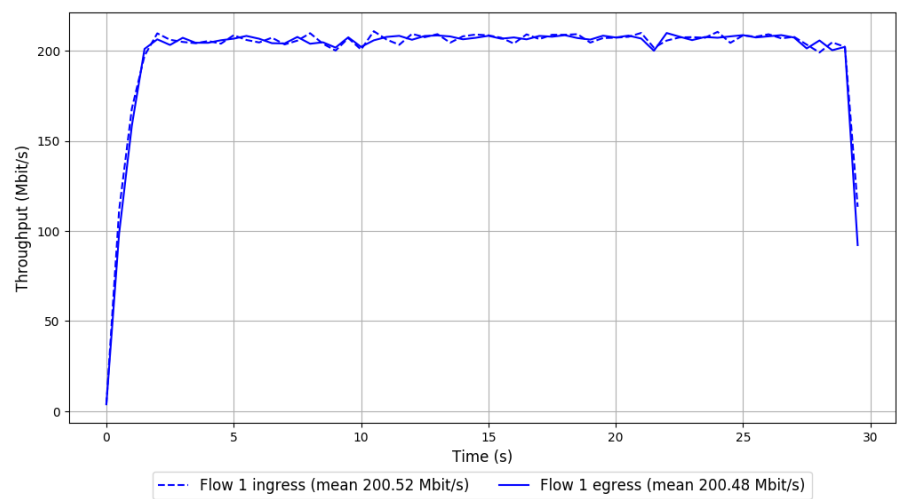
-- Flow 1:

Average throughput: 200.48 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.36%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 15:10:29

End at: 2018-01-16 15:10:59

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.98 Mbit/s

95th percentile per-packet one-way delay: 53.576 ms

Loss rate: 0.36%

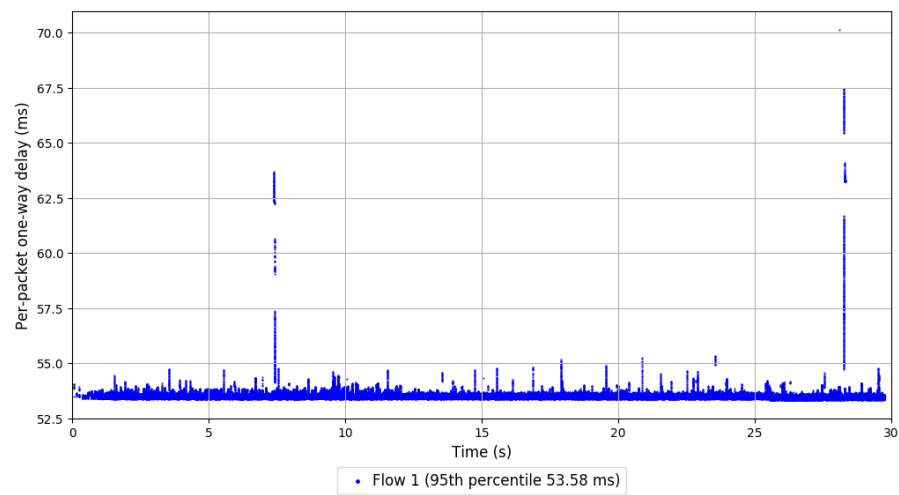
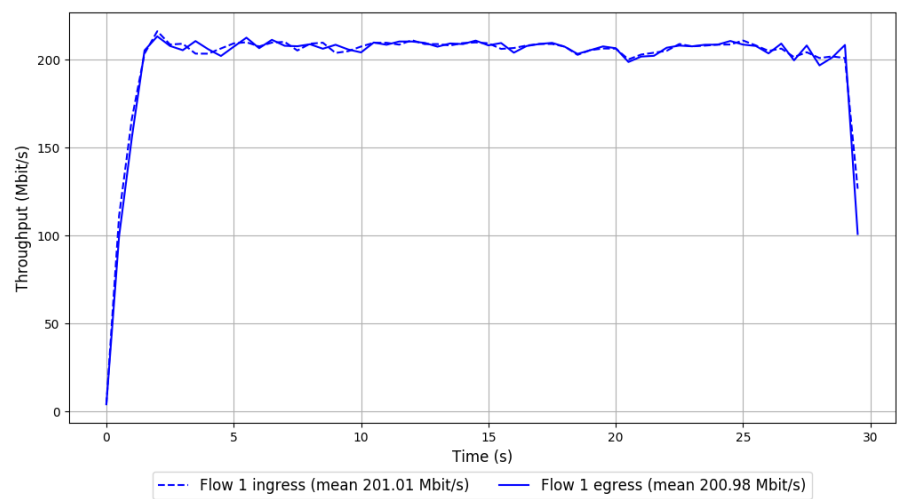
-- Flow 1:

Average throughput: 200.98 Mbit/s

95th percentile per-packet one-way delay: 53.576 ms

Loss rate: 0.36%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 15:24:36

End at: 2018-01-16 15:25:06

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.25 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.37%

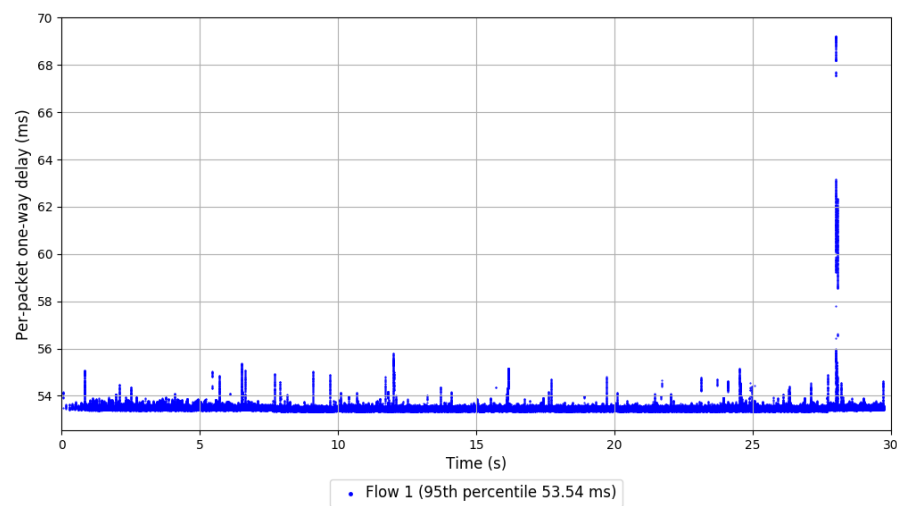
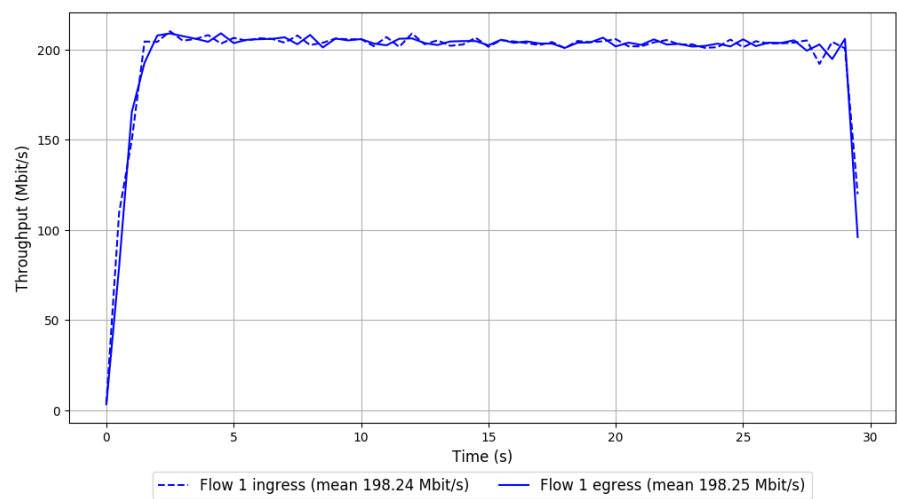
-- Flow 1:

Average throughput: 198.25 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.37%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 15:39:13

End at: 2018-01-16 15:39:43

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.98 Mbit/s

95th percentile per-packet one-way delay: 53.574 ms

Loss rate: 0.44%

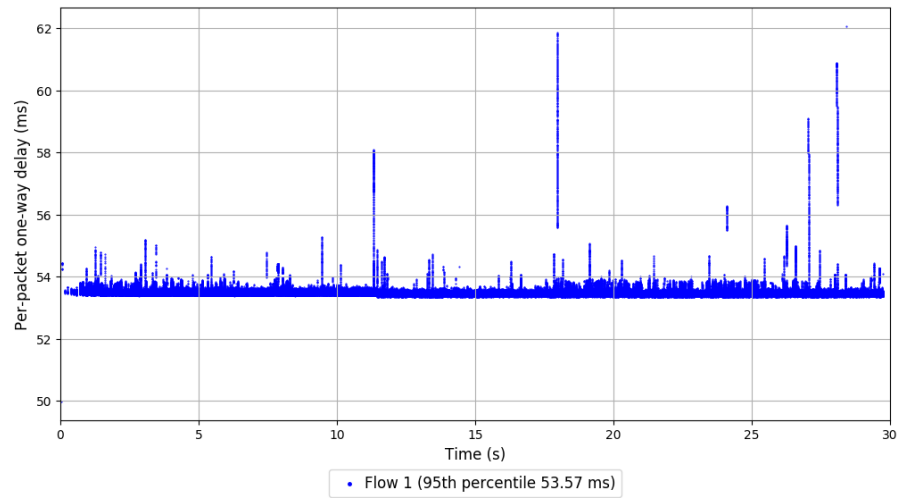
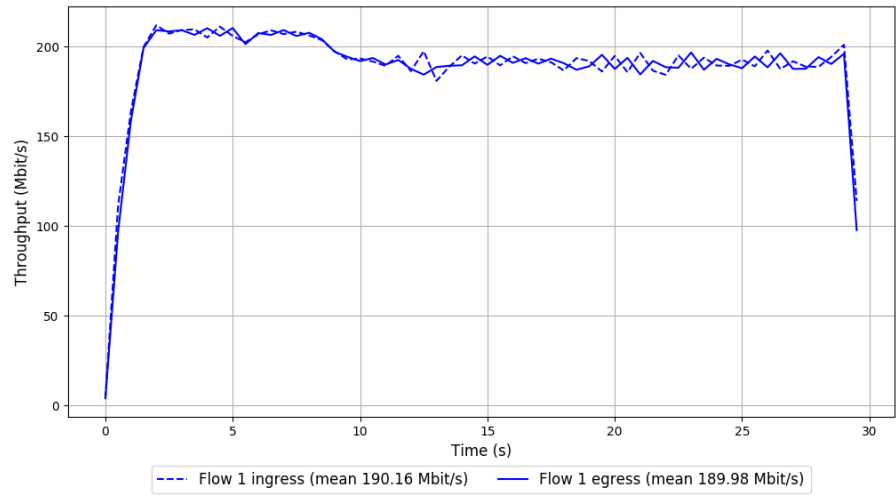
-- Flow 1:

Average throughput: 189.98 Mbit/s

95th percentile per-packet one-way delay: 53.574 ms

Loss rate: 0.44%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 15:53:04

End at: 2018-01-16 15:53:34

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.08 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.36%

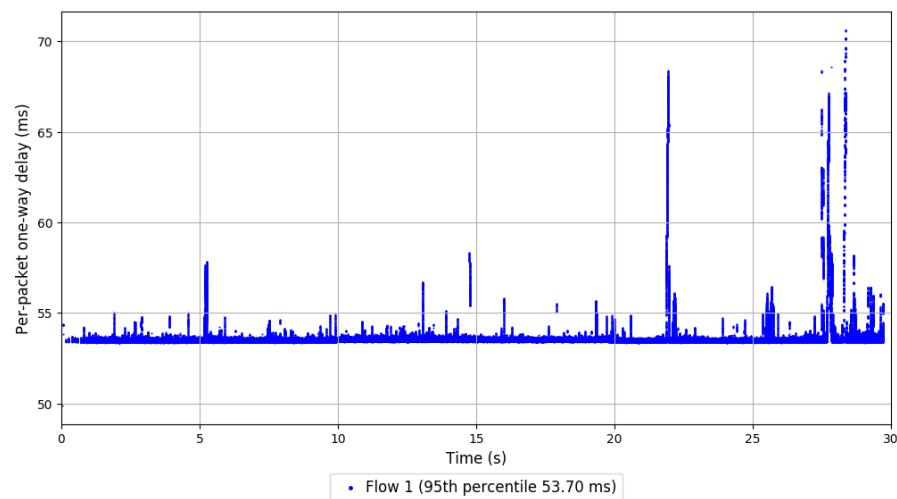
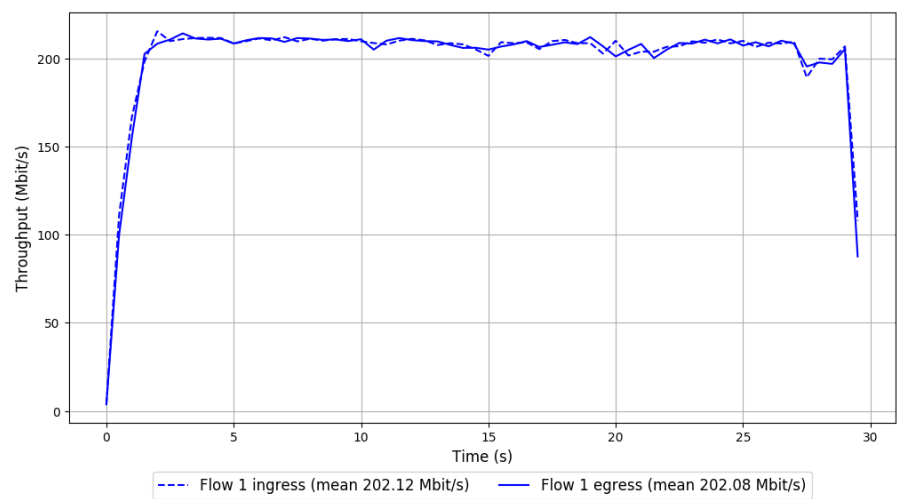
-- Flow 1:

Average throughput: 202.08 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.36%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 16:07:19

End at: 2018-01-16 16:07:49

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.19 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.36%

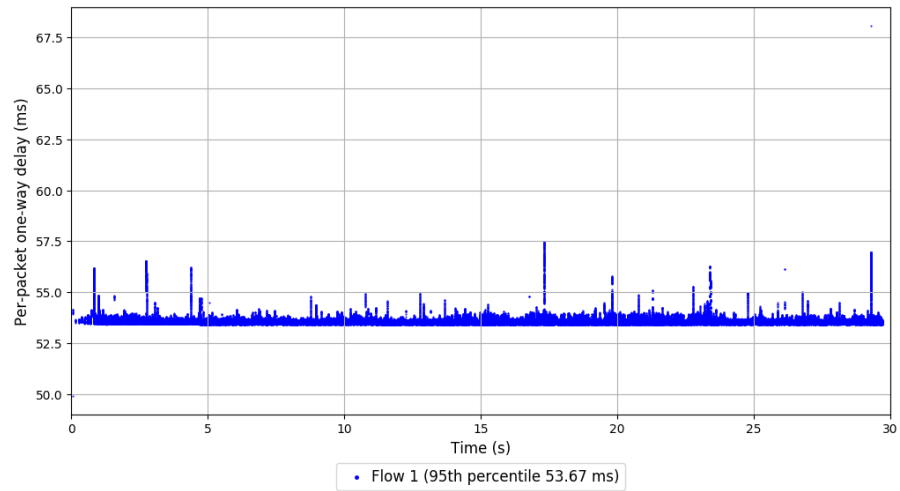
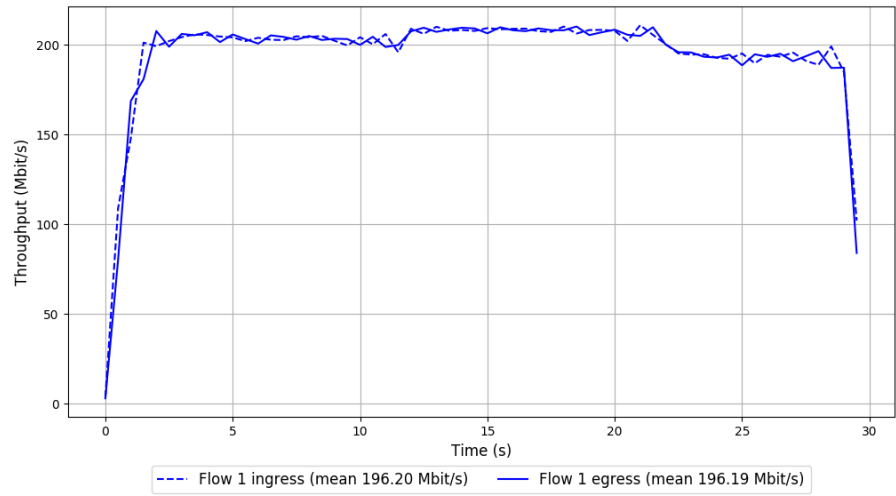
-- Flow 1:

Average throughput: 196.19 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.36%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-16 16:21:29

End at: 2018-01-16 16:21:59

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.66 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.44%

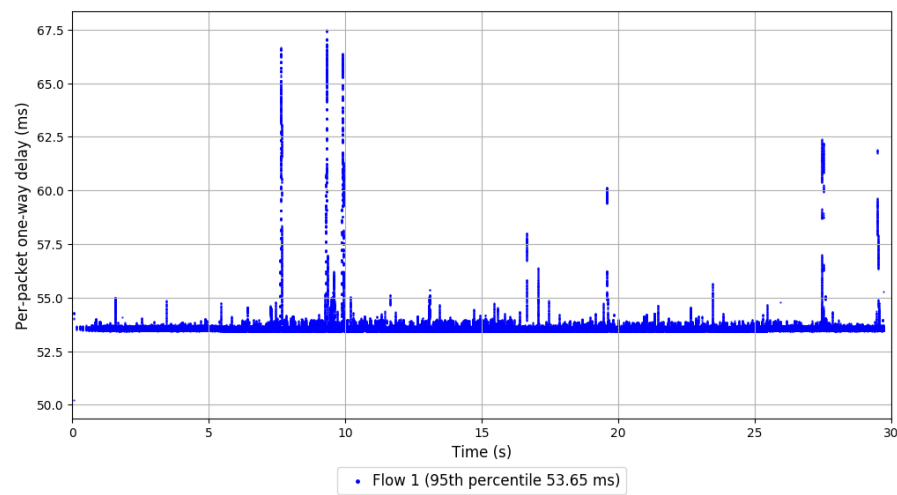
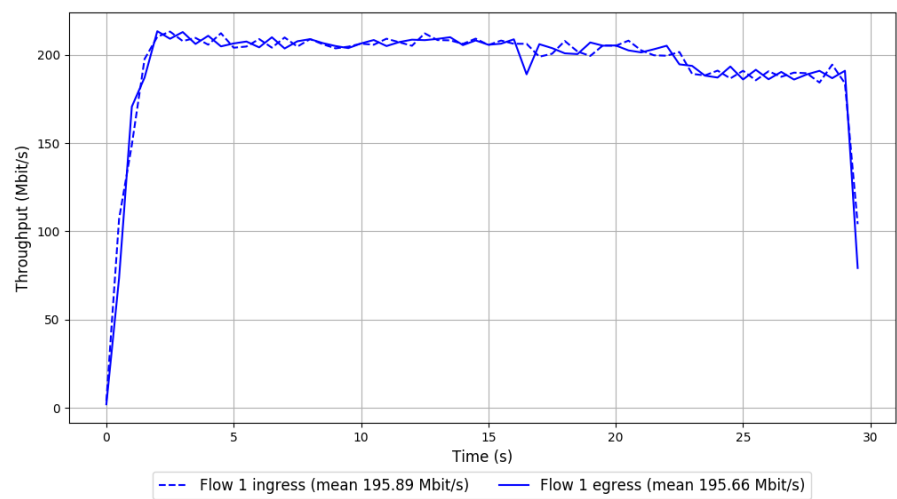
-- Flow 1:

Average throughput: 195.66 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.44%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-16 16:35:39

End at: 2018-01-16 16:36:09

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.67 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.36%

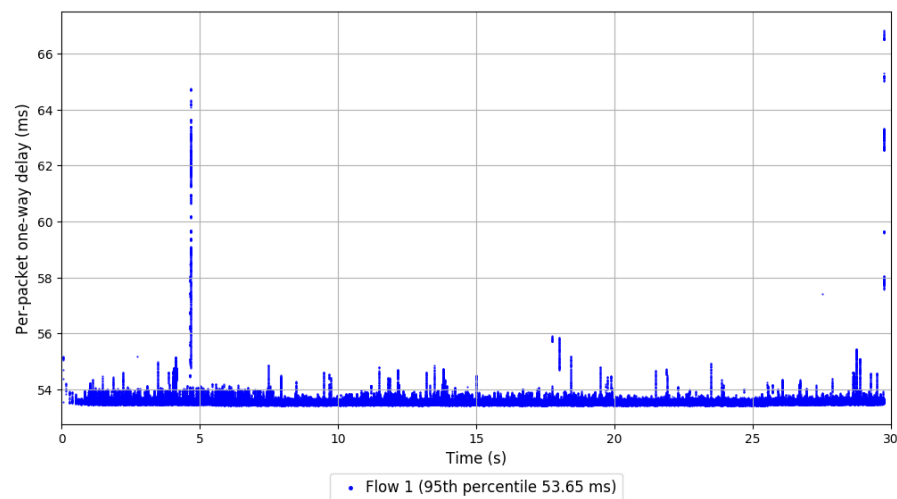
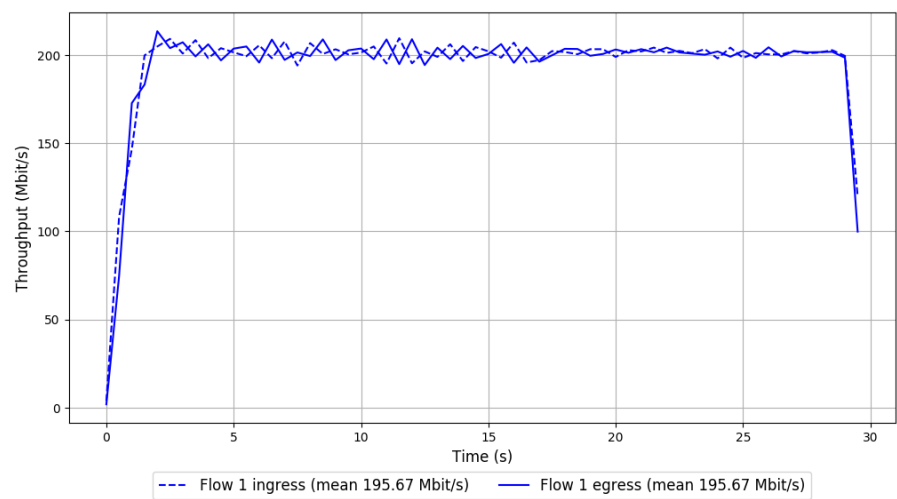
-- Flow 1:

Average throughput: 195.67 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.36%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-16 16:49:48

End at: 2018-01-16 16:50:18

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.27 Mbit/s

95th percentile per-packet one-way delay: 53.680 ms

Loss rate: 0.36%

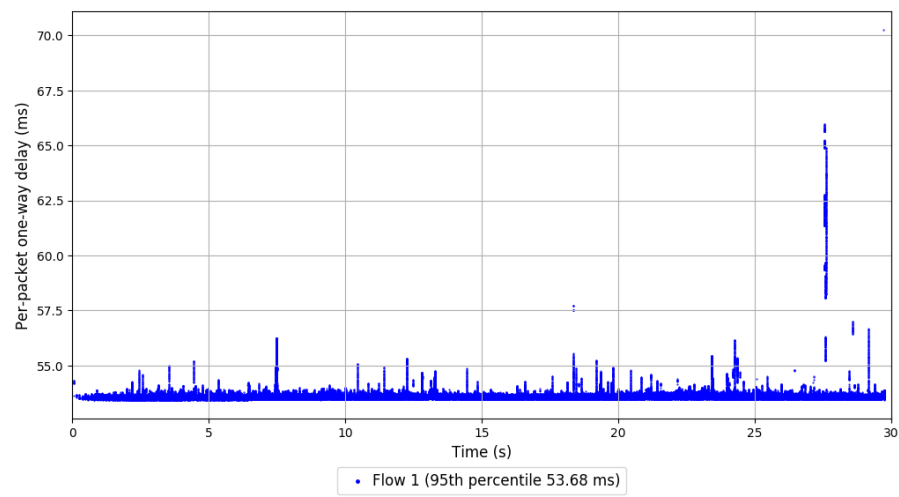
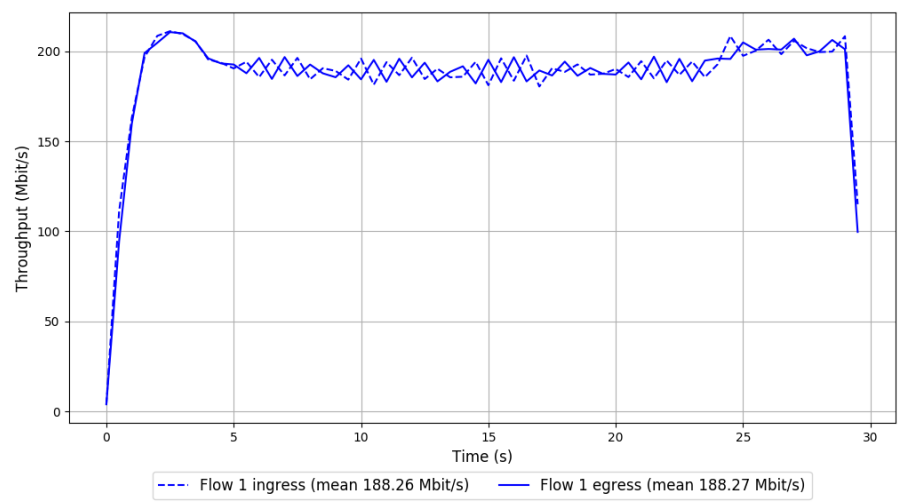
-- Flow 1:

Average throughput: 188.27 Mbit/s

95th percentile per-packet one-way delay: 53.680 ms

Loss rate: 0.36%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 14:36:32

End at: 2018-01-16 14:37:02

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.46%

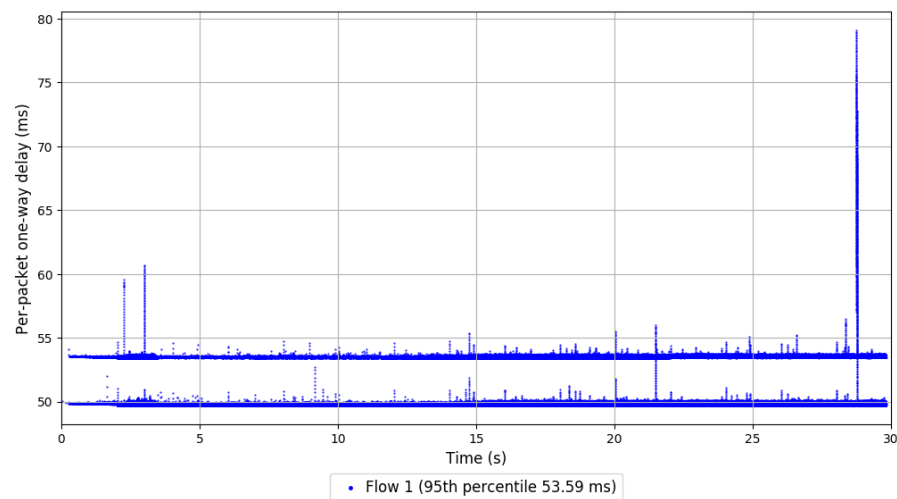
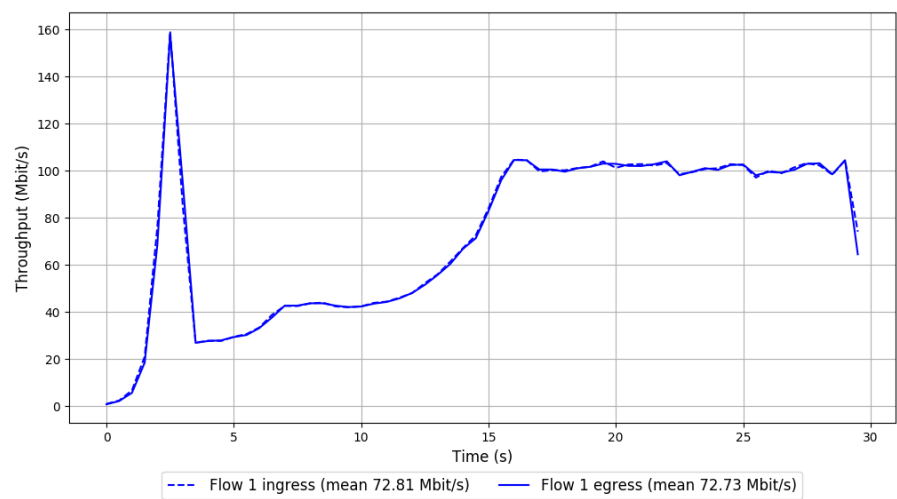
-- Flow 1:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.46%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 14:50:02

End at: 2018-01-16 14:50:32

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.44 Mbit/s

95th percentile per-packet one-way delay: 125.739 ms

Loss rate: 2.30%

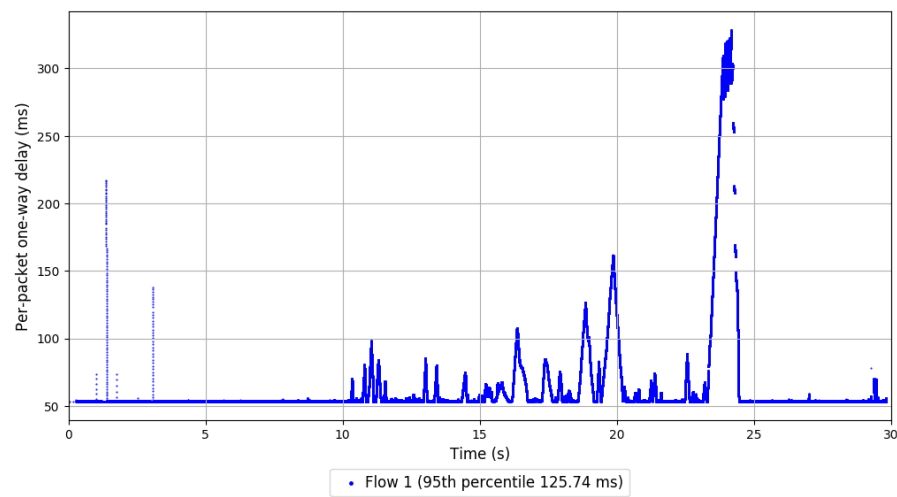
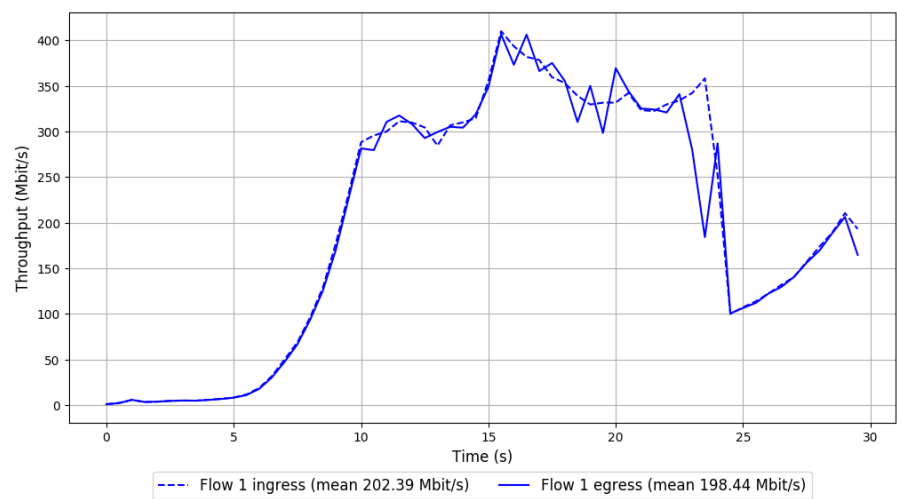
-- Flow 1:

Average throughput: 198.44 Mbit/s

95th percentile per-packet one-way delay: 125.739 ms

Loss rate: 2.30%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 15:04:31

End at: 2018-01-16 15:05:01

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.61 Mbit/s

95th percentile per-packet one-way delay: 84.722 ms

Loss rate: 0.43%

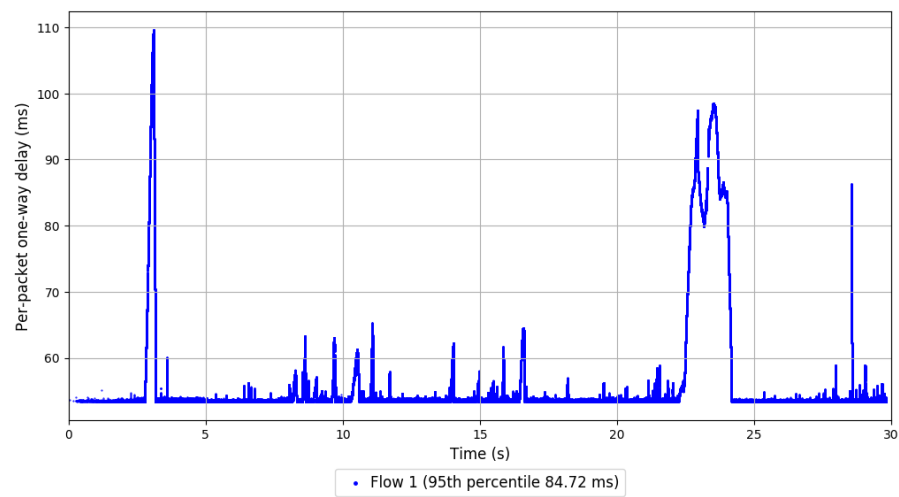
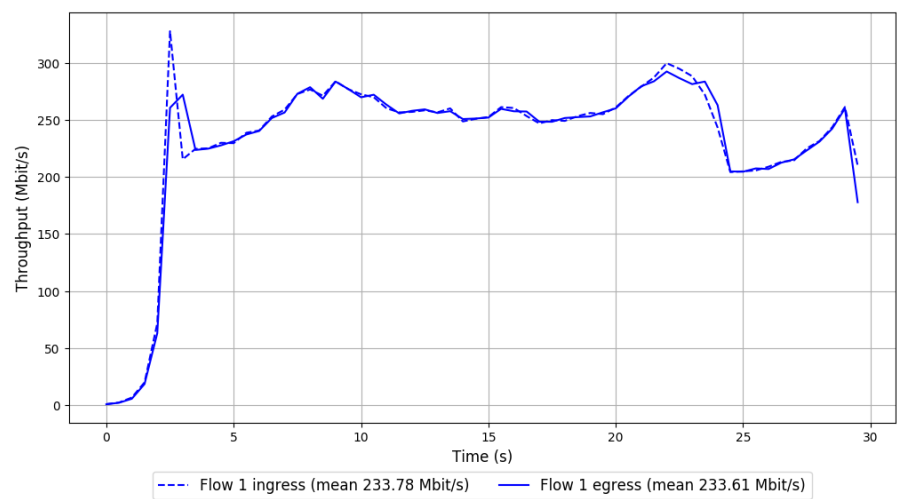
-- Flow 1:

Average throughput: 233.61 Mbit/s

95th percentile per-packet one-way delay: 84.722 ms

Loss rate: 0.43%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 15:18:48

End at: 2018-01-16 15:19:18

Below is generated by plot.py at 2018-01-16 20:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.67 Mbit/s

95th percentile per-packet one-way delay: 77.628 ms

Loss rate: 0.44%

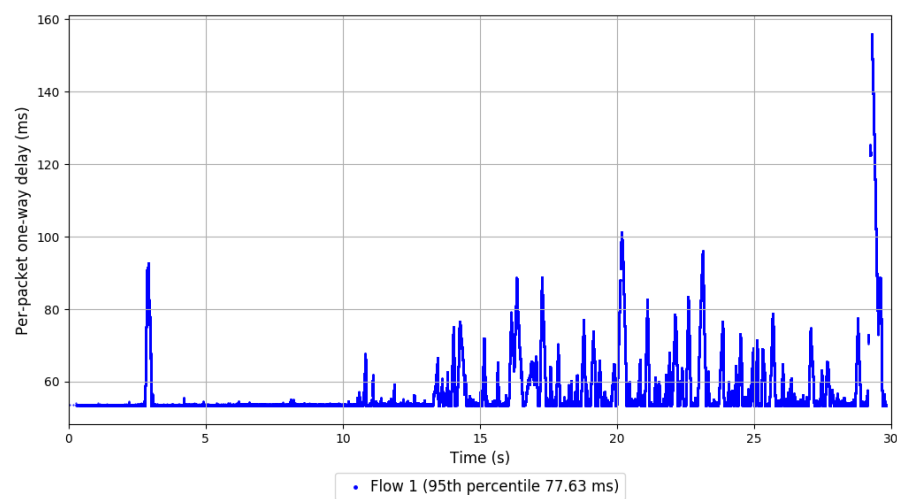
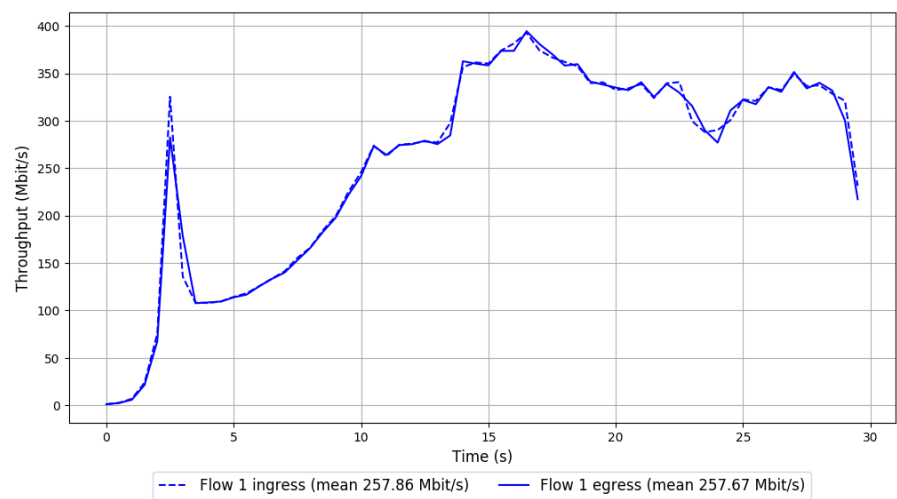
-- Flow 1:

Average throughput: 257.67 Mbit/s

95th percentile per-packet one-way delay: 77.628 ms

Loss rate: 0.44%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 15:33:06

End at: 2018-01-16 15:33:36

Below is generated by plot.py at 2018-01-16 20:27:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.78 Mbit/s

95th percentile per-packet one-way delay: 62.073 ms

Loss rate: 0.38%

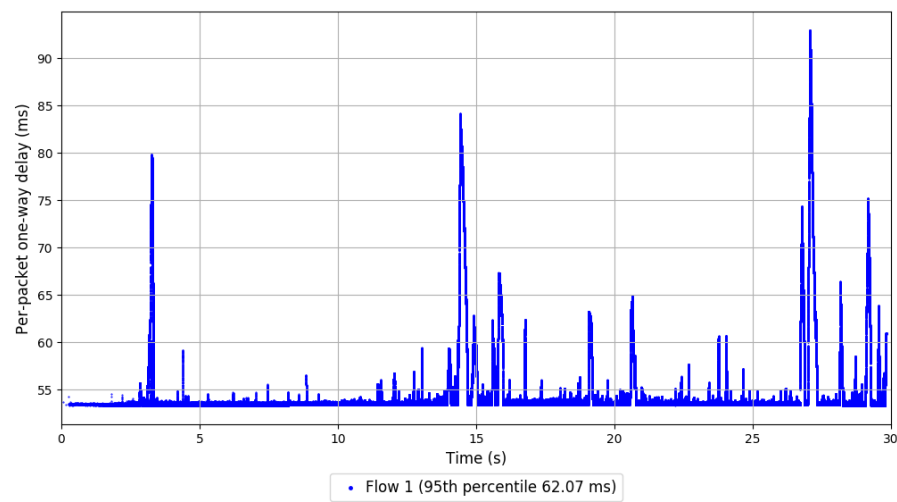
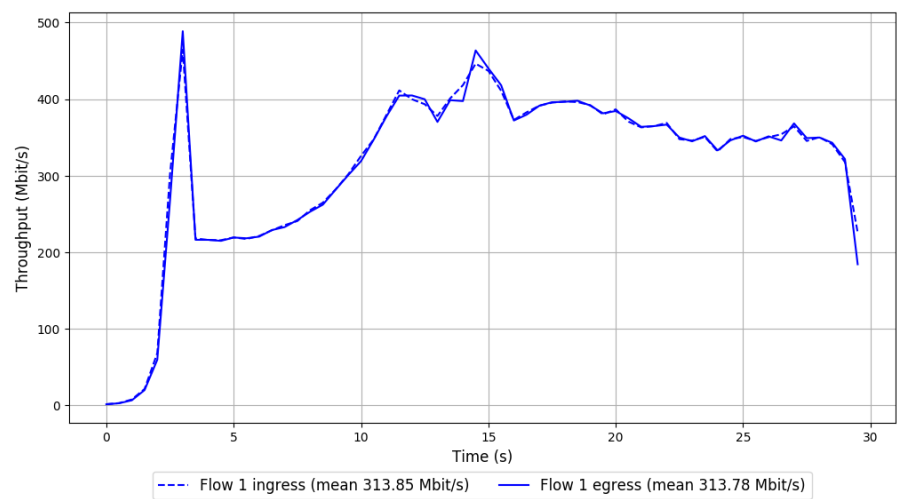
-- Flow 1:

Average throughput: 313.78 Mbit/s

95th percentile per-packet one-way delay: 62.073 ms

Loss rate: 0.38%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 15:47:22

End at: 2018-01-16 15:47:52

Below is generated by plot.py at 2018-01-16 20:27:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 53.569 ms

Loss rate: 0.39%

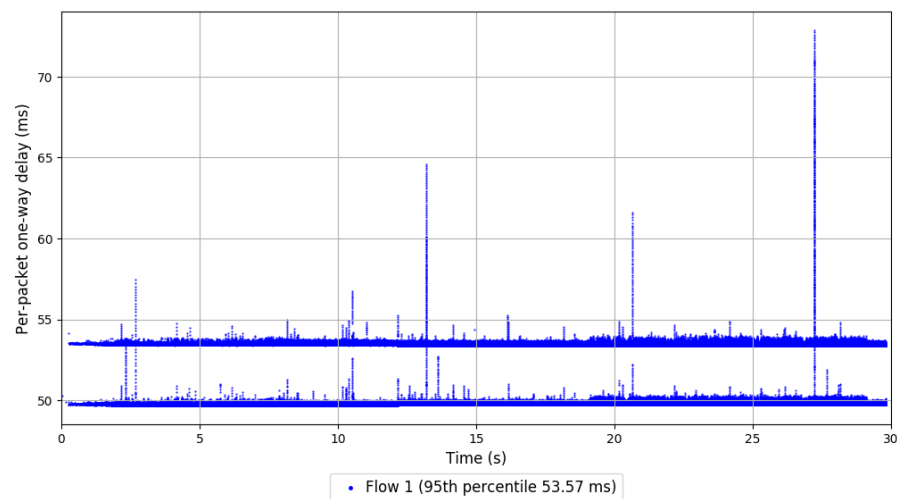
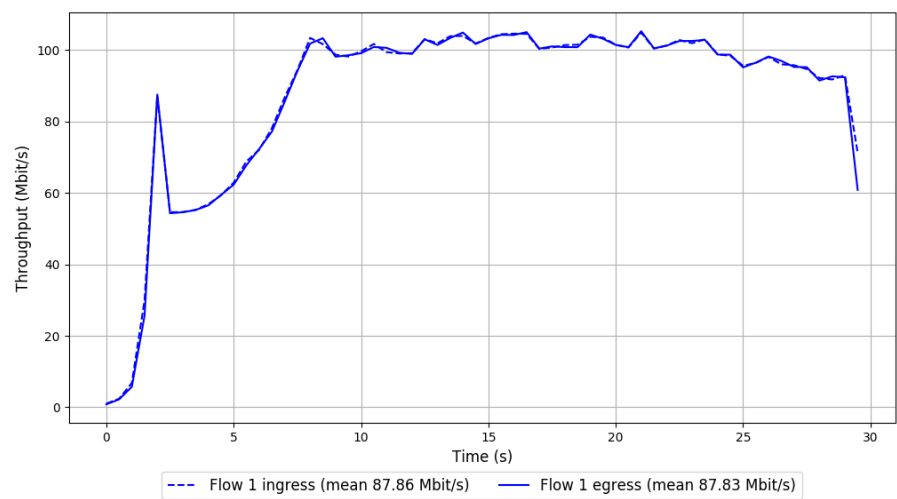
-- Flow 1:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 53.569 ms

Loss rate: 0.39%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

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

End at: 2018-01-16 16:02:03

Below is generated by plot.py at 2018-01-16 20:27:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 53.539 ms

Loss rate: 0.39%

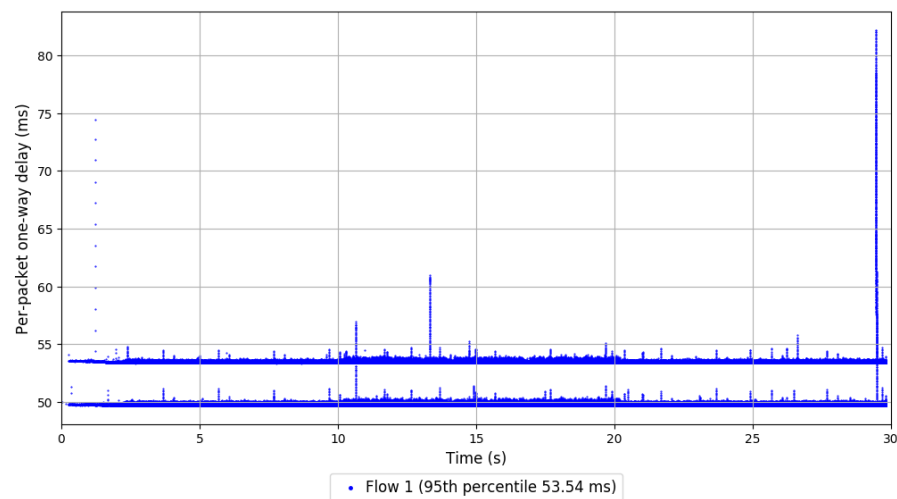
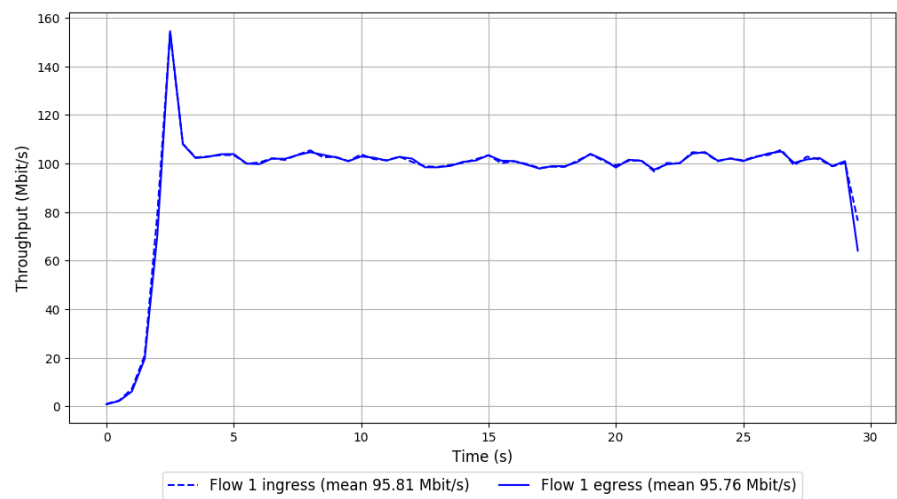
-- Flow 1:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 53.539 ms

Loss rate: 0.39%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-16 16:15:34

End at: 2018-01-16 16:16:04

Below is generated by plot.py at 2018-01-16 20:28:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.18 Mbit/s

95th percentile per-packet one-way delay: 61.942 ms

Loss rate: 0.34%

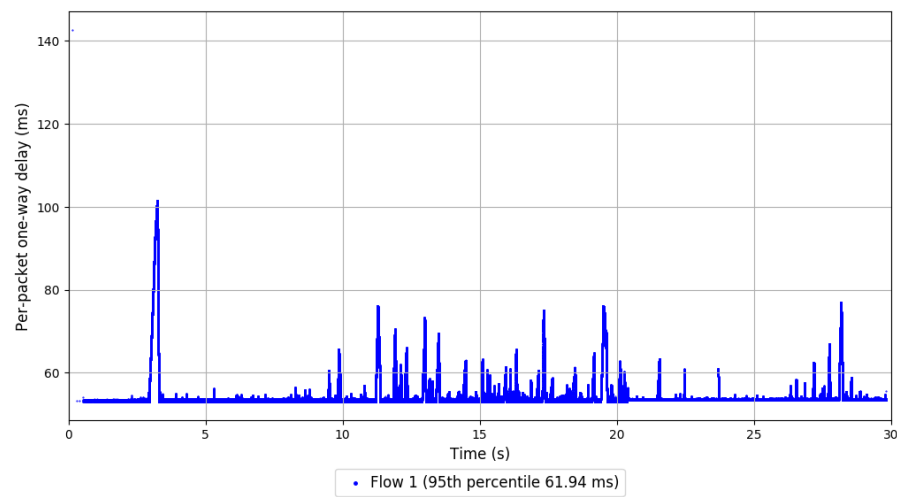
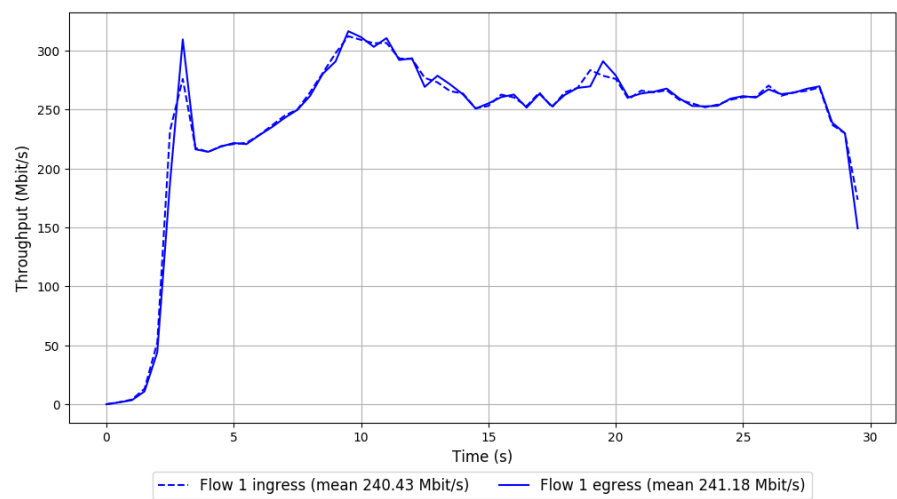
-- Flow 1:

Average throughput: 241.18 Mbit/s

95th percentile per-packet one-way delay: 61.942 ms

Loss rate: 0.34%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-16 16:29:54

End at: 2018-01-16 16:30:24

Below is generated by plot.py at 2018-01-16 20:28:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.23 Mbit/s

95th percentile per-packet one-way delay: 85.798 ms

Loss rate: 0.78%

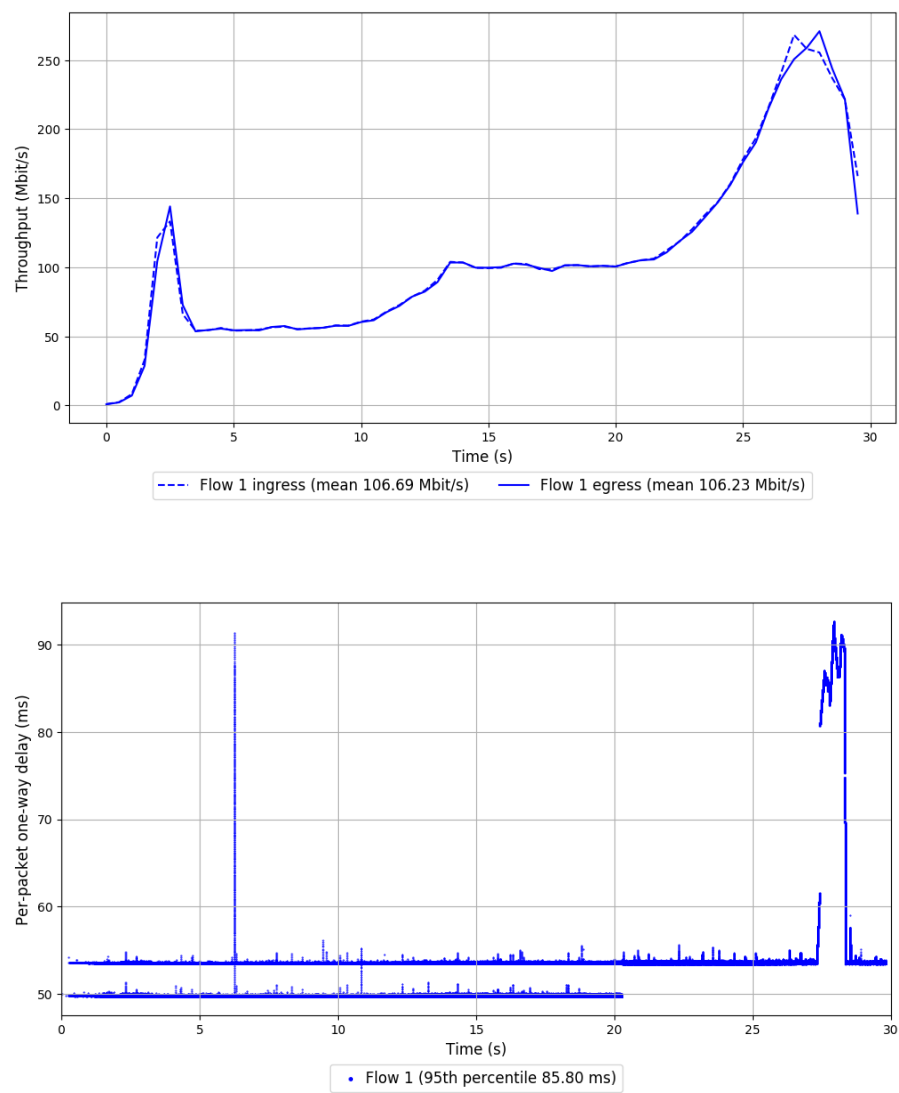
-- Flow 1:

Average throughput: 106.23 Mbit/s

95th percentile per-packet one-way delay: 85.798 ms

Loss rate: 0.78%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-16 16:44:01

End at: 2018-01-16 16:44:31

Below is generated by plot.py at 2018-01-16 20:28:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.69 Mbit/s

95th percentile per-packet one-way delay: 78.447 ms

Loss rate: 0.16%

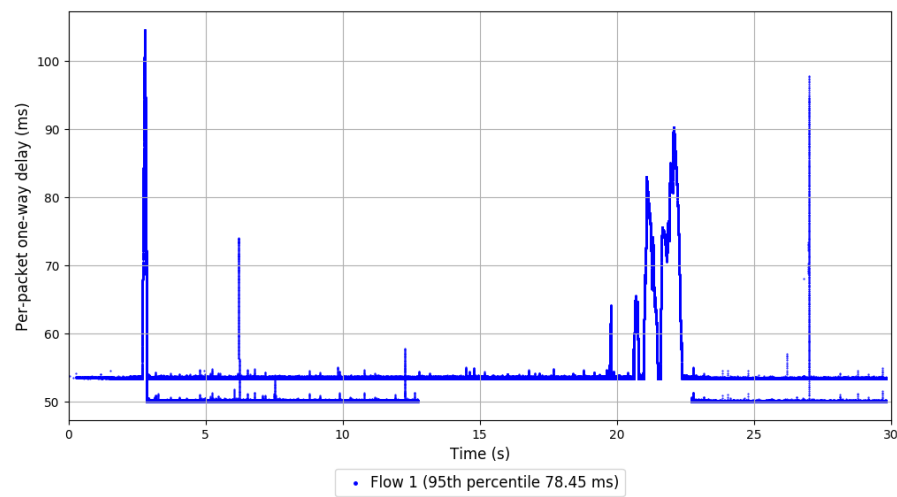
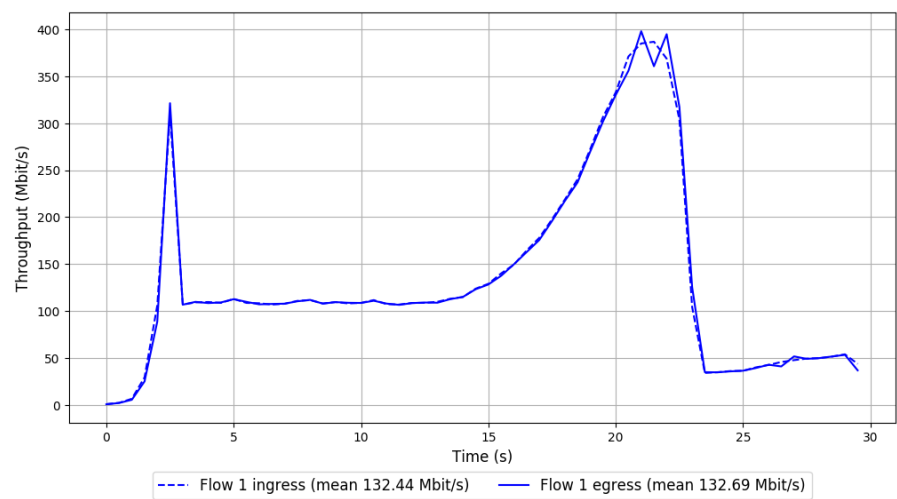
-- Flow 1:

Average throughput: 132.69 Mbit/s

95th percentile per-packet one-way delay: 78.447 ms

Loss rate: 0.16%

Run 10: Report of Vivace-latency — Data Link

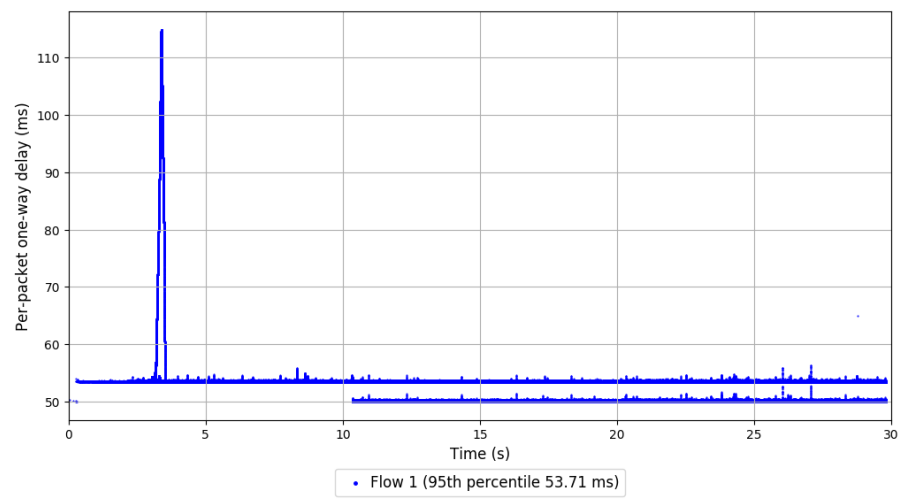
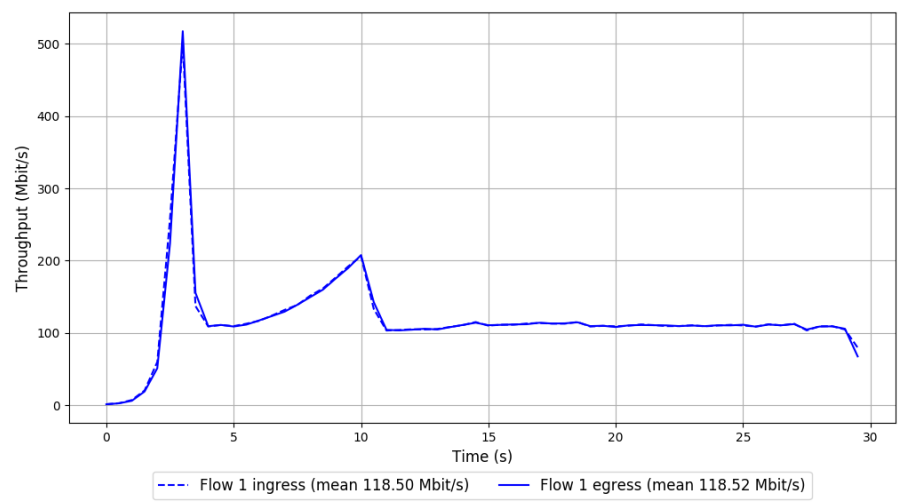


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 14:35:44
End at: 2018-01-16 14:36:14

# Below is generated by plot.py at 2018-01-16 20:28:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 118.52 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 118.52 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.32%
```

Run 1: Report of Vivace-loss — Data Link

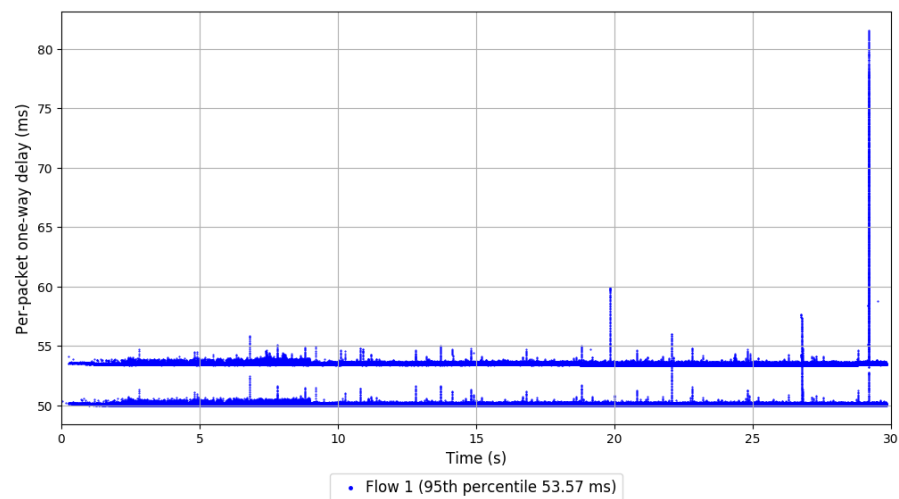
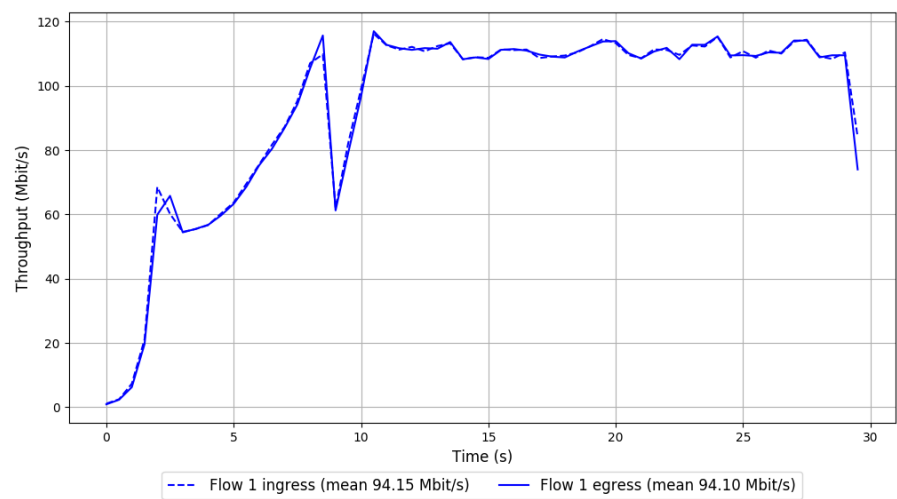


```
Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 14:49:15
End at: 2018-01-16 14:49:45

# Below is generated by plot.py at 2018-01-16 20:28:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 53.573 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 53.573 ms
Loss rate: 0.39%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 15:03:25

End at: 2018-01-16 15:03:55

Below is generated by plot.py at 2018-01-16 20:34:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.05 Mbit/s

95th percentile per-packet one-way delay: 81.524 ms

Loss rate: 1.46%

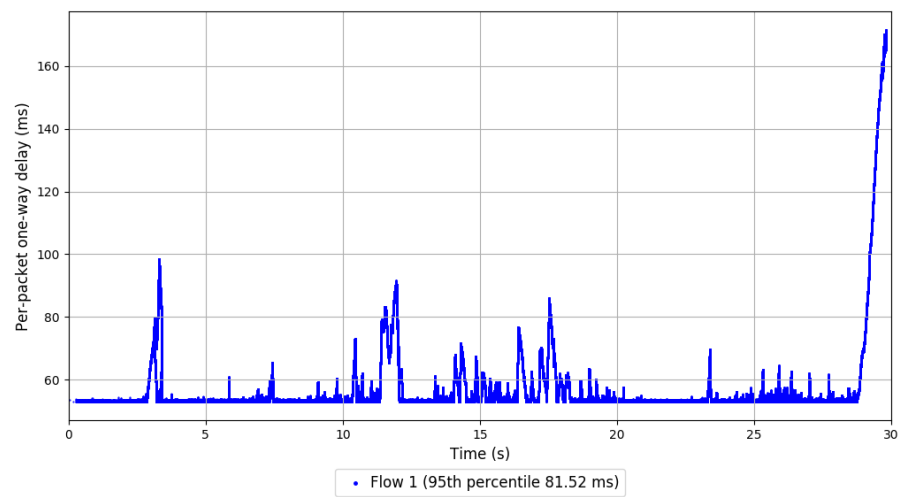
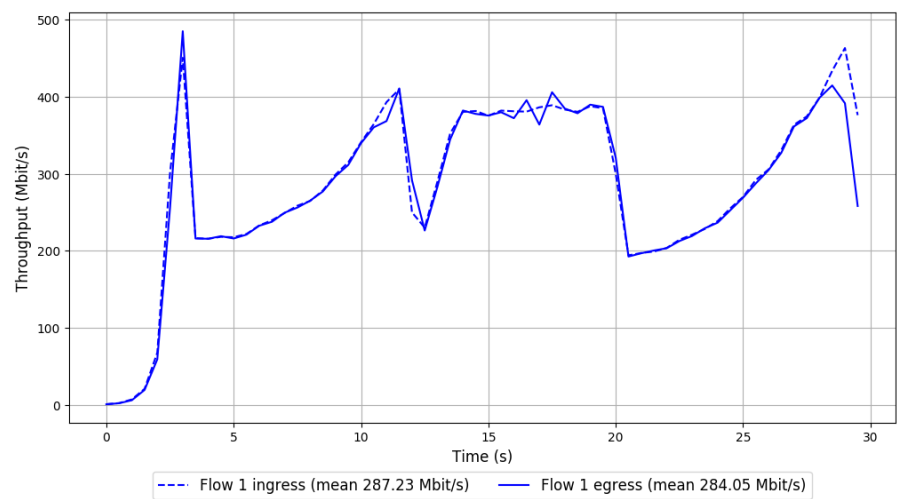
-- Flow 1:

Average throughput: 284.05 Mbit/s

95th percentile per-packet one-way delay: 81.524 ms

Loss rate: 1.46%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 15:18:01

End at: 2018-01-16 15:18:31

Below is generated by plot.py at 2018-01-16 20:34:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.11 Mbit/s

95th percentile per-packet one-way delay: 73.269 ms

Loss rate: 0.38%

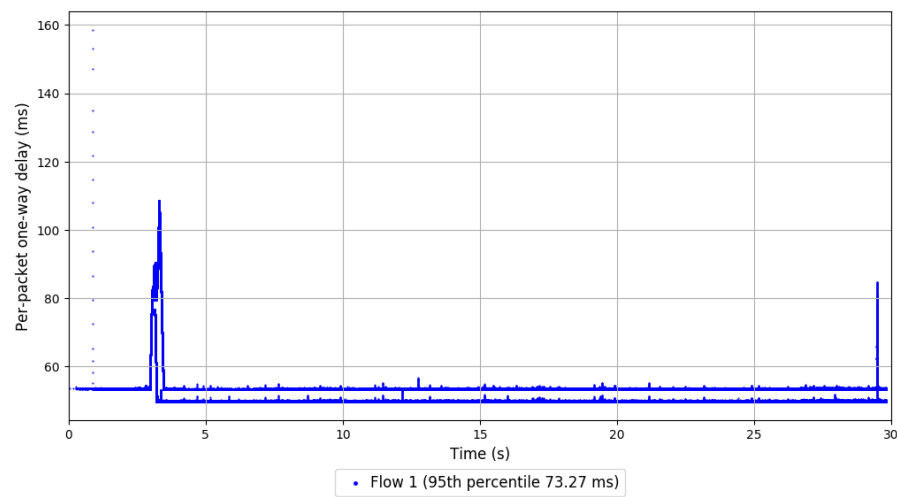
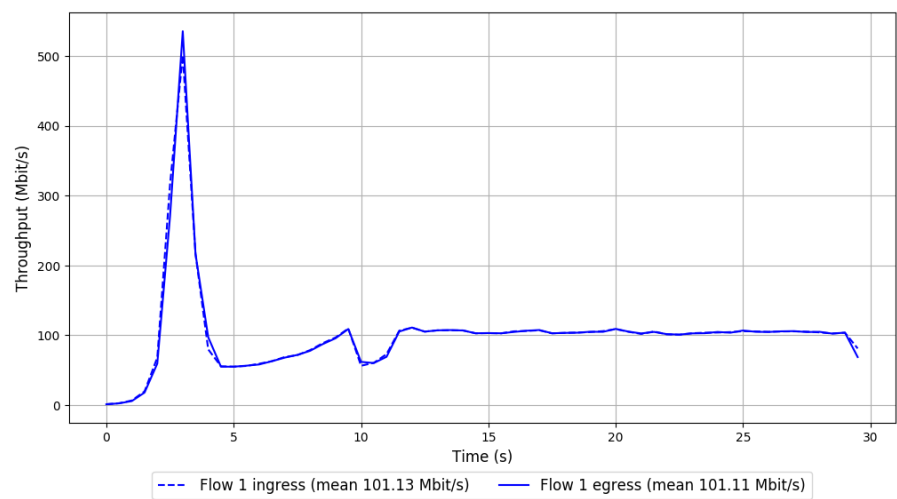
-- Flow 1:

Average throughput: 101.11 Mbit/s

95th percentile per-packet one-way delay: 73.269 ms

Loss rate: 0.38%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 15:32:00

End at: 2018-01-16 15:32:30

Below is generated by plot.py at 2018-01-16 20:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.48 Mbit/s

95th percentile per-packet one-way delay: 153.516 ms

Loss rate: 1.10%

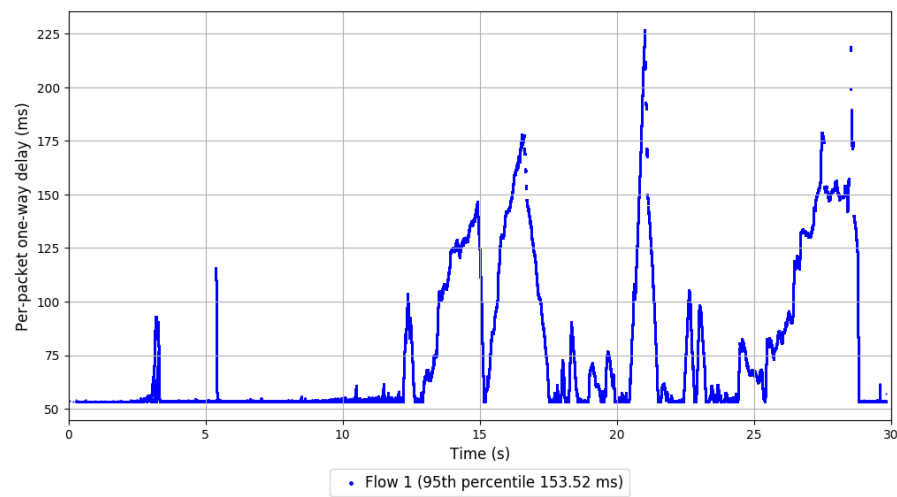
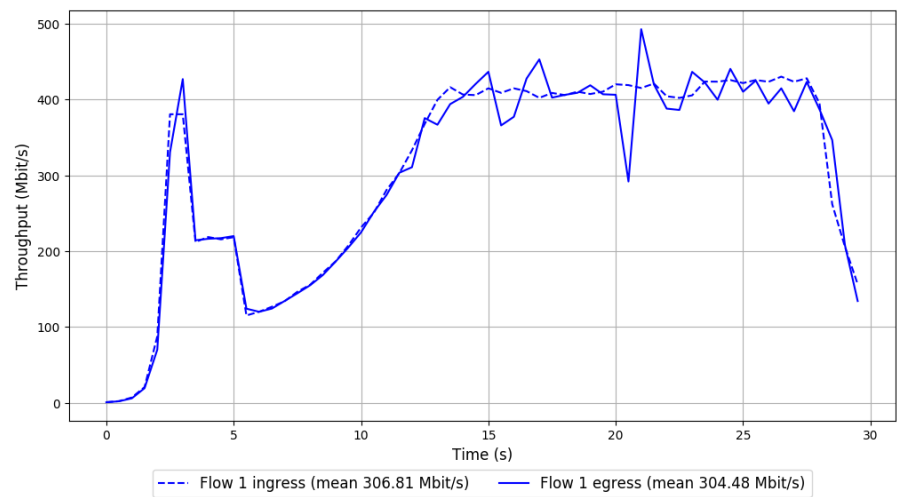
-- Flow 1:

Average throughput: 304.48 Mbit/s

95th percentile per-packet one-way delay: 153.516 ms

Loss rate: 1.10%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 15:46:22

End at: 2018-01-16 15:46:52

Below is generated by plot.py at 2018-01-16 20:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.13 Mbit/s

95th percentile per-packet one-way delay: 157.950 ms

Loss rate: 1.65%

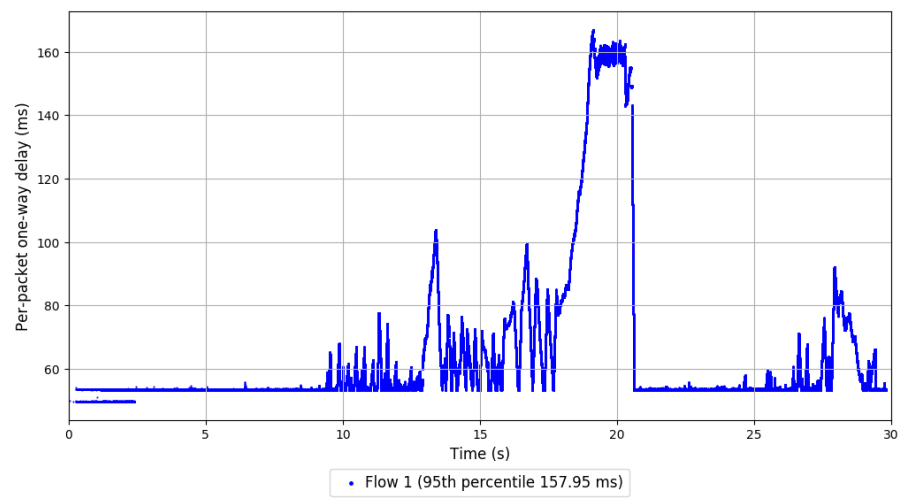
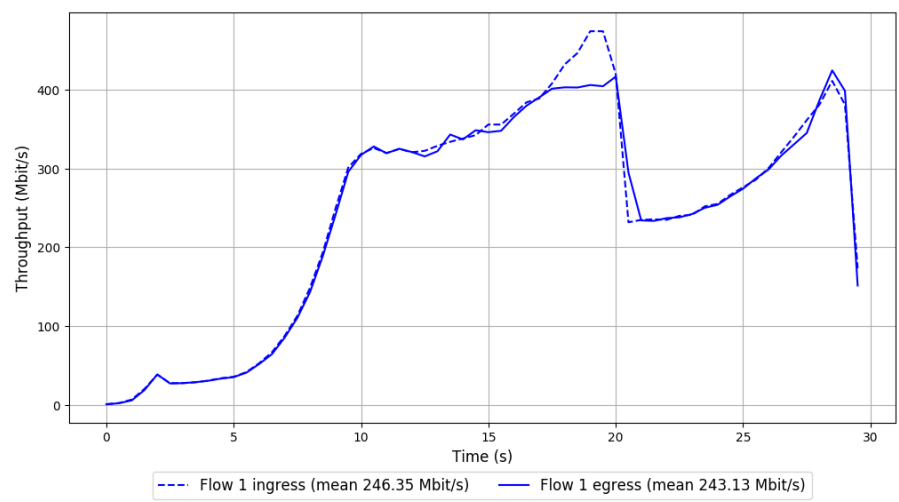
-- Flow 1:

Average throughput: 243.13 Mbit/s

95th percentile per-packet one-way delay: 157.950 ms

Loss rate: 1.65%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 16:00:40

End at: 2018-01-16 16:01:10

Below is generated by plot.py at 2018-01-16 20:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.44 Mbit/s

95th percentile per-packet one-way delay: 70.467 ms

Loss rate: 0.26%

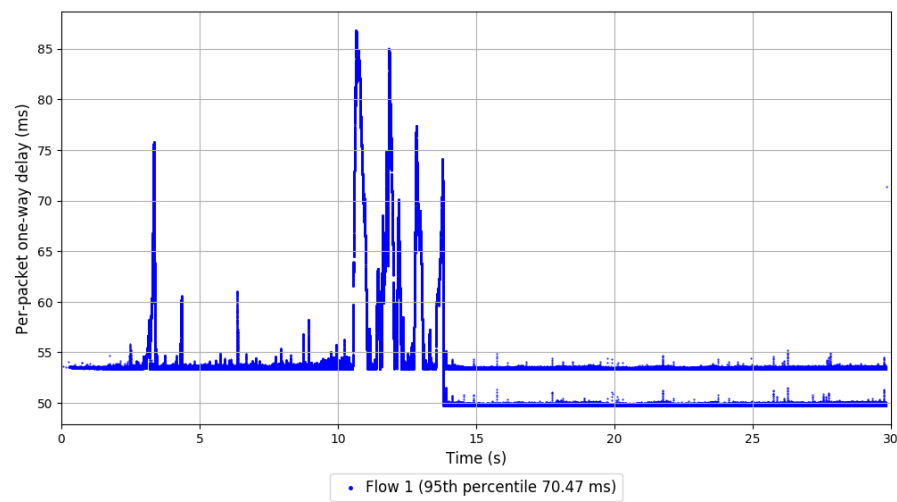
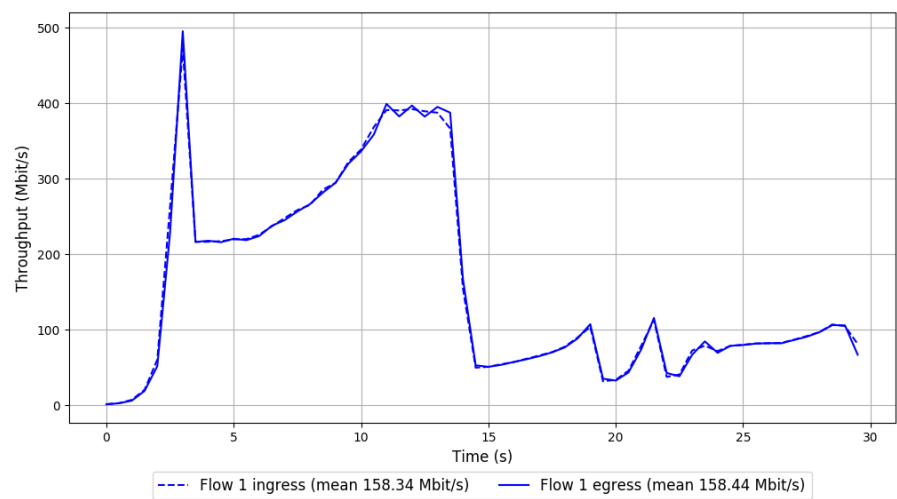
-- Flow 1:

Average throughput: 158.44 Mbit/s

95th percentile per-packet one-way delay: 70.467 ms

Loss rate: 0.26%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-16 16:14:42

End at: 2018-01-16 16:15:12

Below is generated by plot.py at 2018-01-16 20:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.14 Mbit/s

95th percentile per-packet one-way delay: 107.888 ms

Loss rate: 1.51%

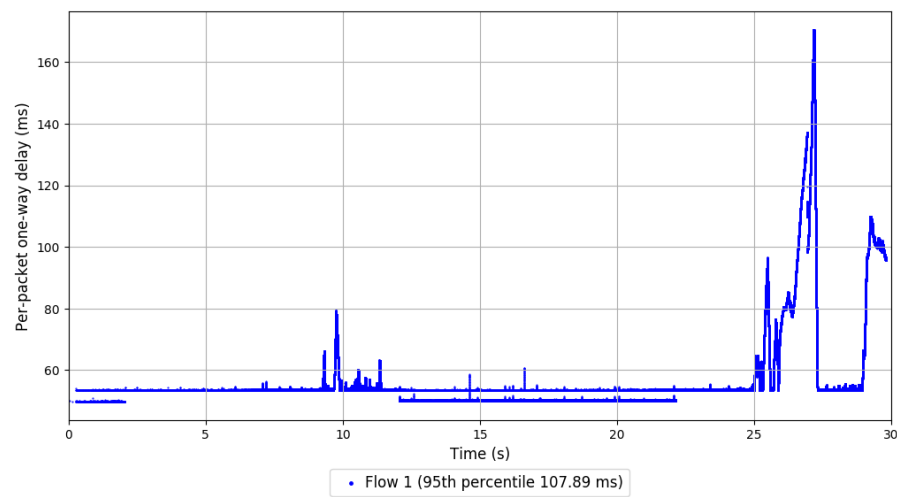
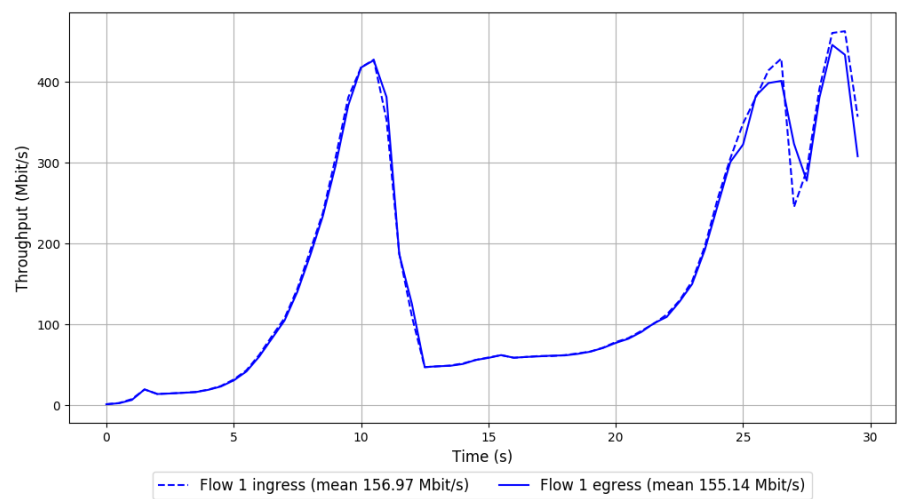
-- Flow 1:

Average throughput: 155.14 Mbit/s

95th percentile per-packet one-way delay: 107.888 ms

Loss rate: 1.51%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-16 16:28:54

End at: 2018-01-16 16:29:24

Below is generated by plot.py at 2018-01-16 20:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.37 Mbit/s

95th percentile per-packet one-way delay: 88.700 ms

Loss rate: 1.02%

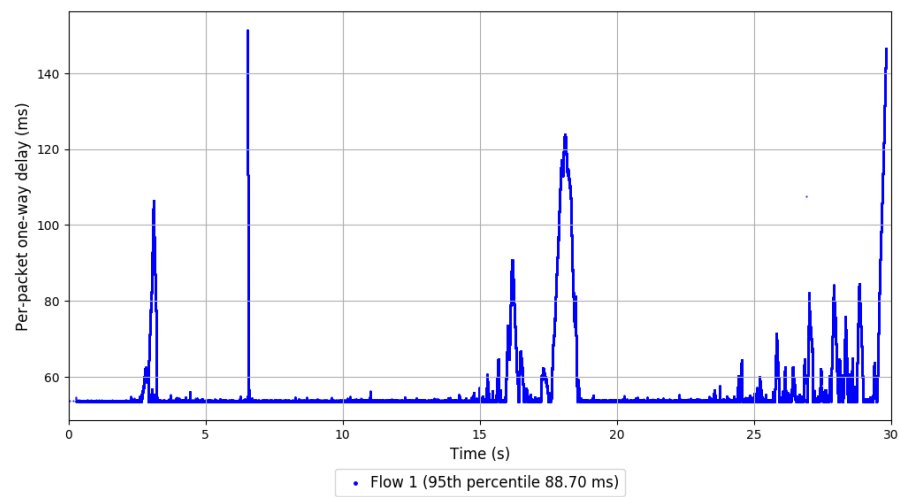
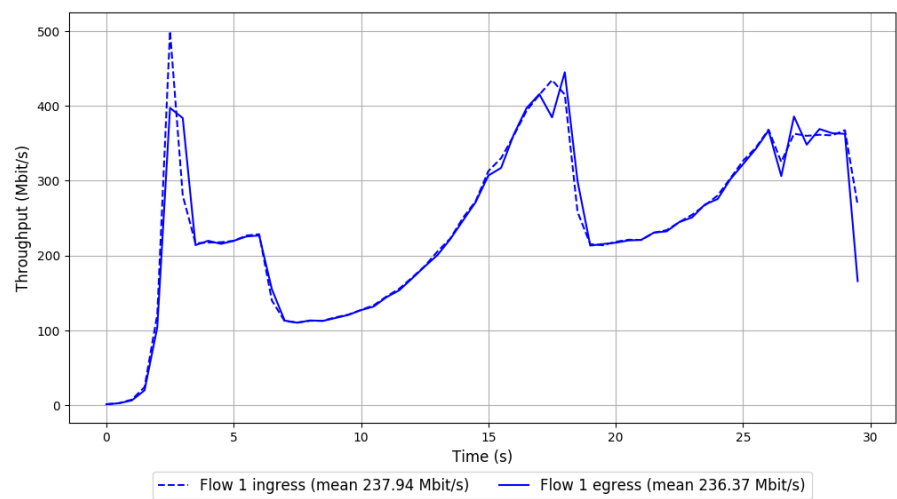
-- Flow 1:

Average throughput: 236.37 Mbit/s

95th percentile per-packet one-way delay: 88.700 ms

Loss rate: 1.02%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-16 16:42:51

End at: 2018-01-16 16:43:21

Below is generated by plot.py at 2018-01-16 20:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.83 Mbit/s

95th percentile per-packet one-way delay: 158.774 ms

Loss rate: 2.12%

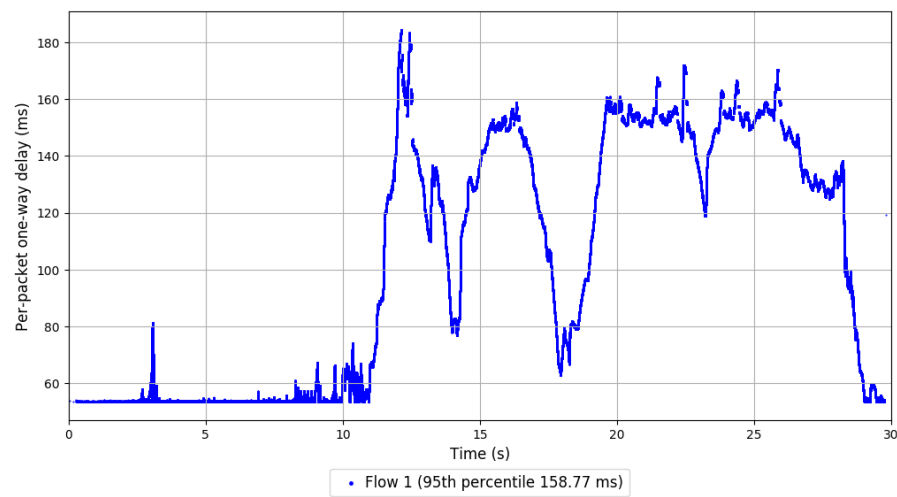
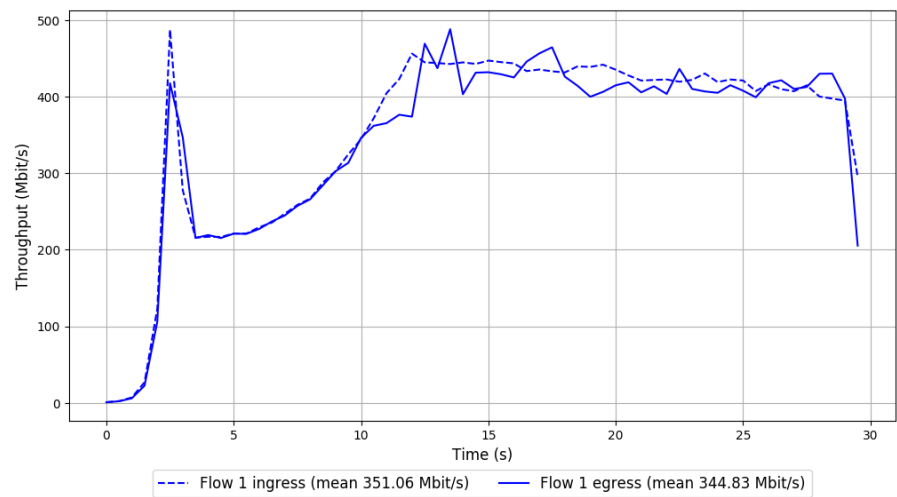
-- Flow 1:

Average throughput: 344.83 Mbit/s

95th percentile per-packet one-way delay: 158.774 ms

Loss rate: 2.12%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 14:32:46

End at: 2018-01-16 14:33:16

Below is generated by plot.py at 2018-01-16 20:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.07%

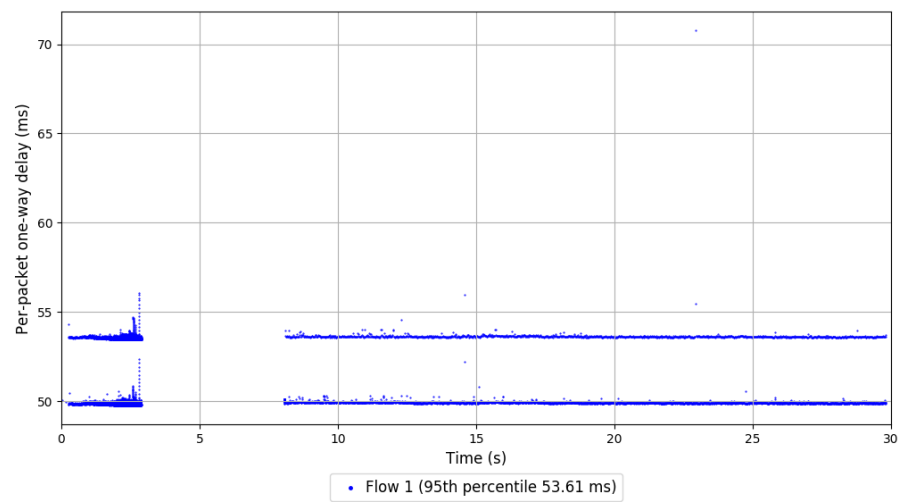
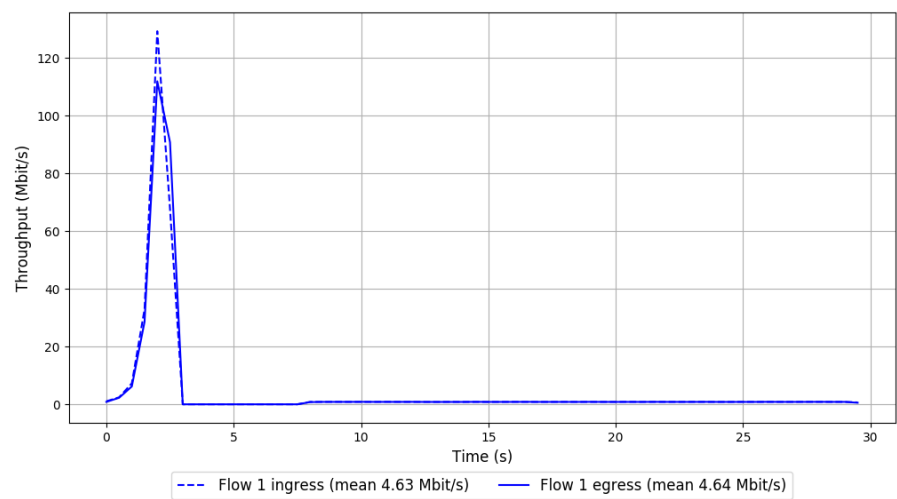
-- Flow 1:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.07%

Run 1: Report of Vivace-LTE — Data Link

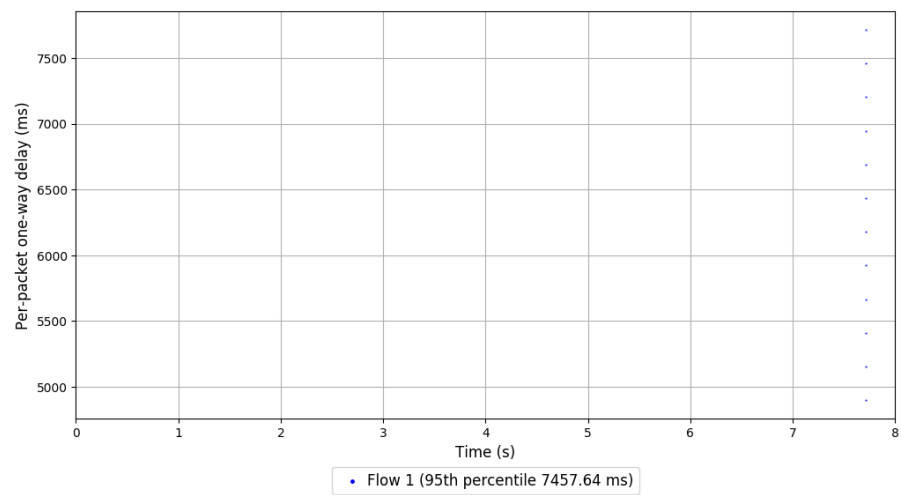
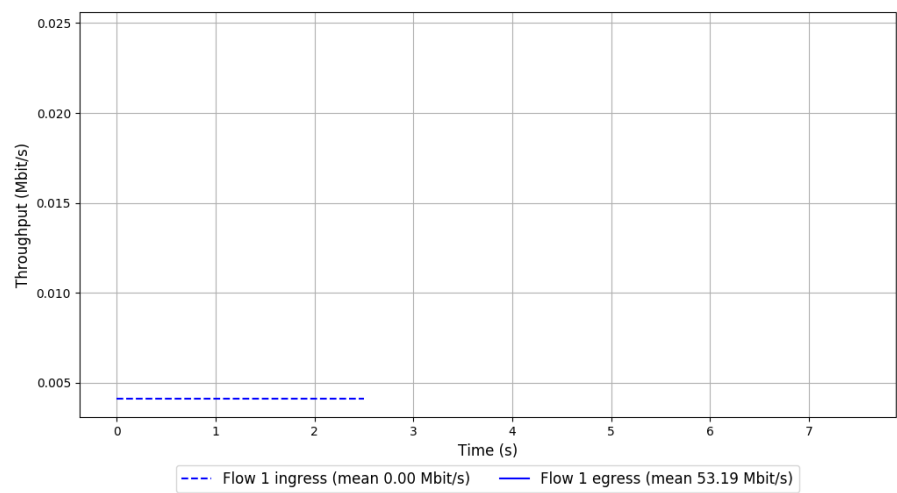


Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 14:46:20

End at: 2018-01-16 14:46:50

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 15:00:28

End at: 2018-01-16 15:00:58

Below is generated by plot.py at 2018-01-16 20:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 102.130 ms

Loss rate: 0.02%

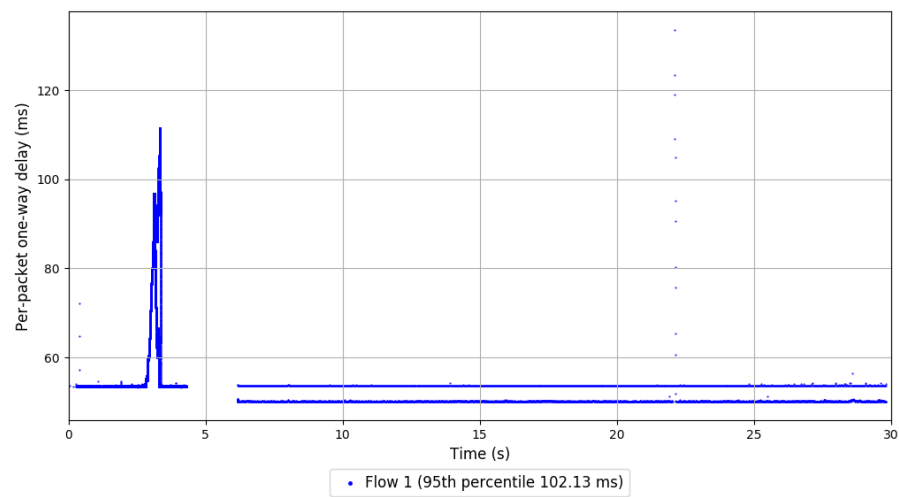
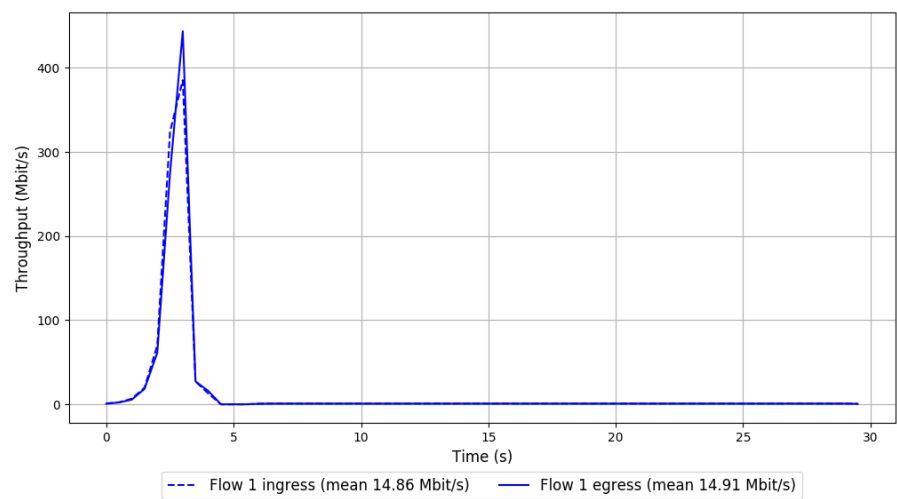
-- Flow 1:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 102.130 ms

Loss rate: 0.02%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 15:15:03

End at: 2018-01-16 15:15:34

Below is generated by plot.py at 2018-01-16 20:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 53.619 ms

Loss rate: 0.01%

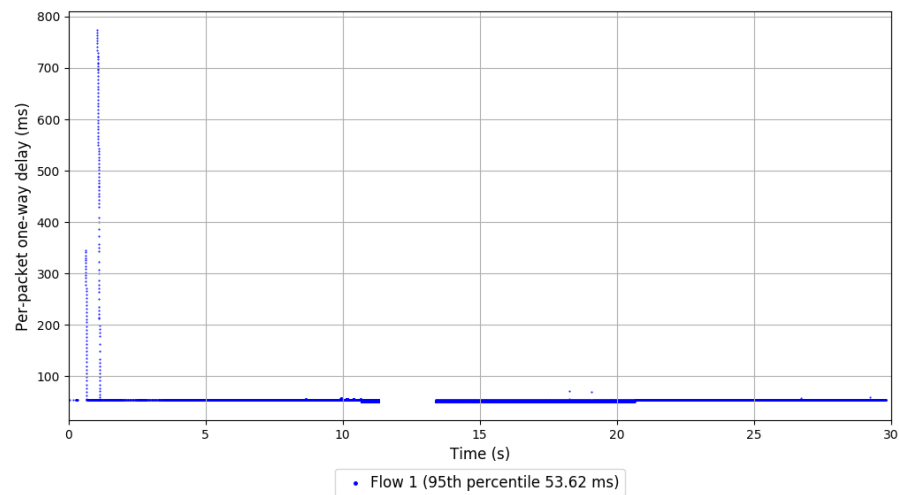
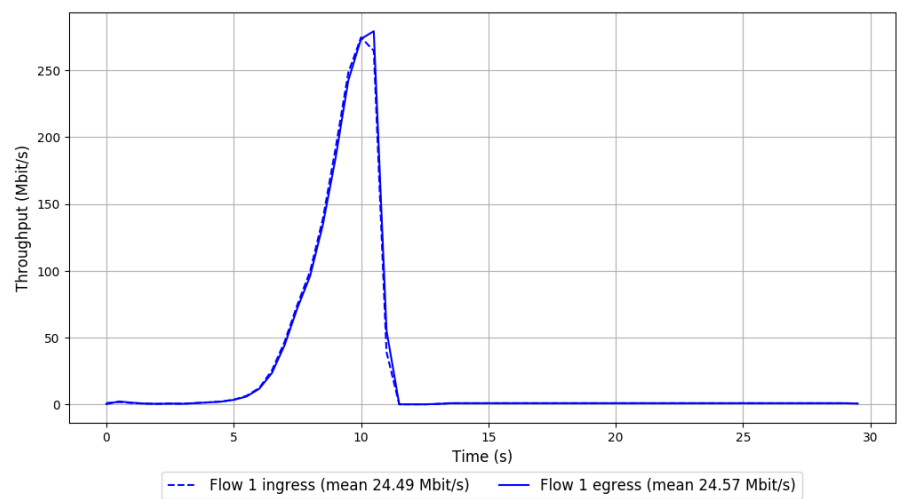
-- Flow 1:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 53.619 ms

Loss rate: 0.01%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-16 15:28:58

End at: 2018-01-16 15:29:28

Below is generated by plot.py at 2018-01-16 20:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.96 Mbit/s

95th percentile per-packet one-way delay: 97.947 ms

Loss rate: 0.01%

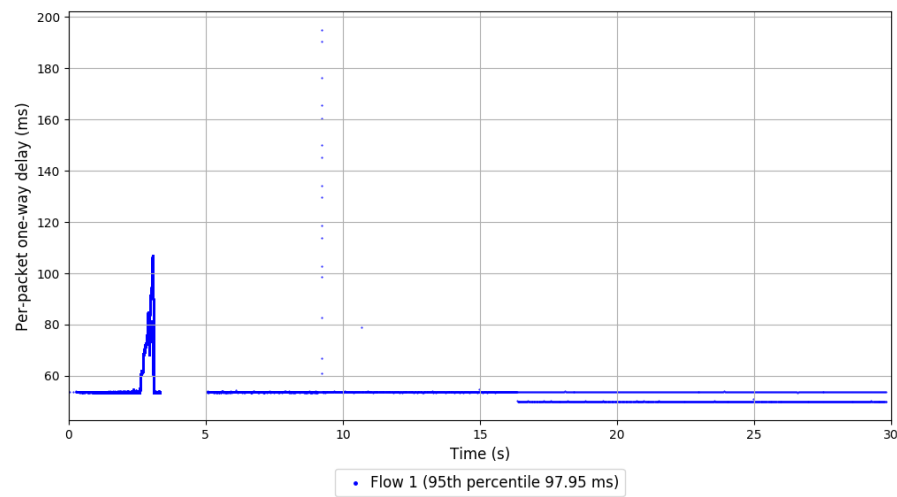
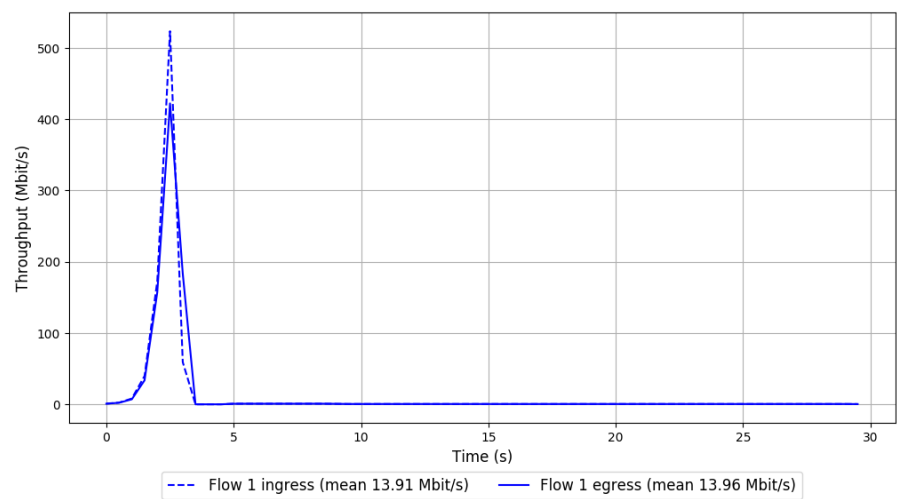
-- Flow 1:

Average throughput: 13.96 Mbit/s

95th percentile per-packet one-way delay: 97.947 ms

Loss rate: 0.01%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 15:43:32

End at: 2018-01-16 15:44:02

Below is generated by plot.py at 2018-01-16 20:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 75.465 ms

Loss rate: 0.02%

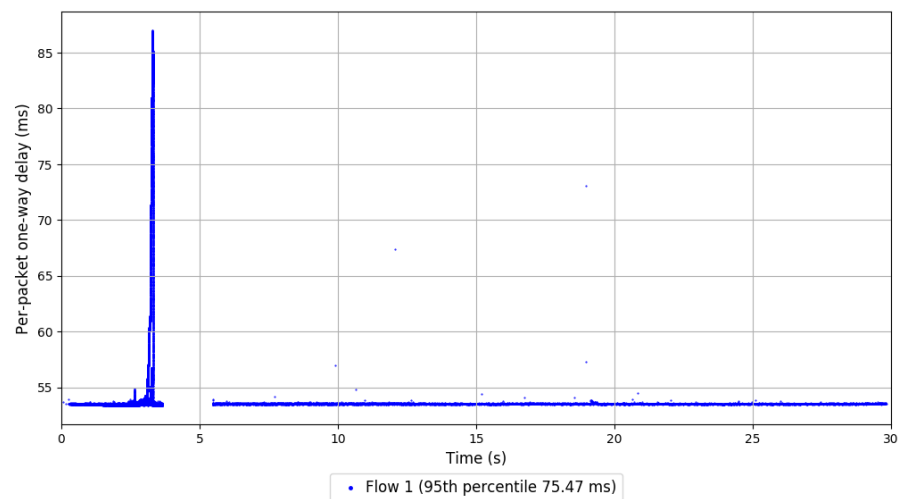
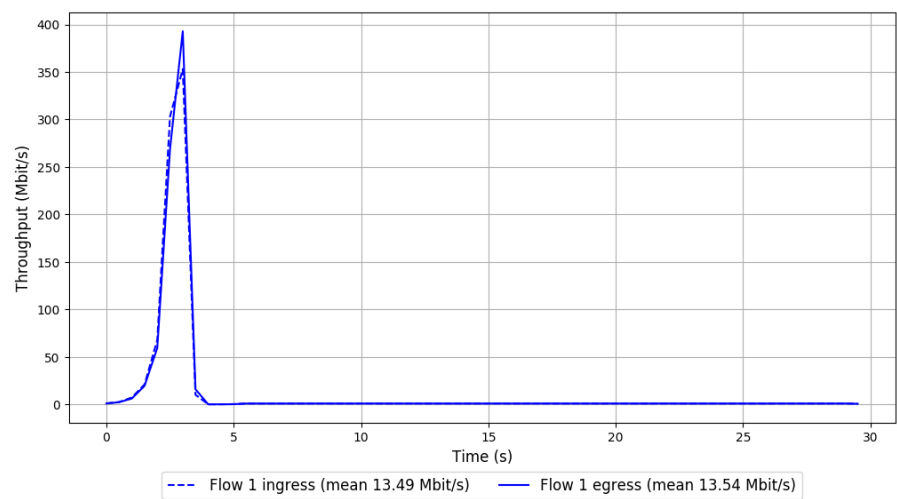
-- Flow 1:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 75.465 ms

Loss rate: 0.02%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 15:57:34

End at: 2018-01-16 15:58:04

Below is generated by plot.py at 2018-01-16 20:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.98 Mbit/s

95th percentile per-packet one-way delay: 127.096 ms

Loss rate: 0.00%

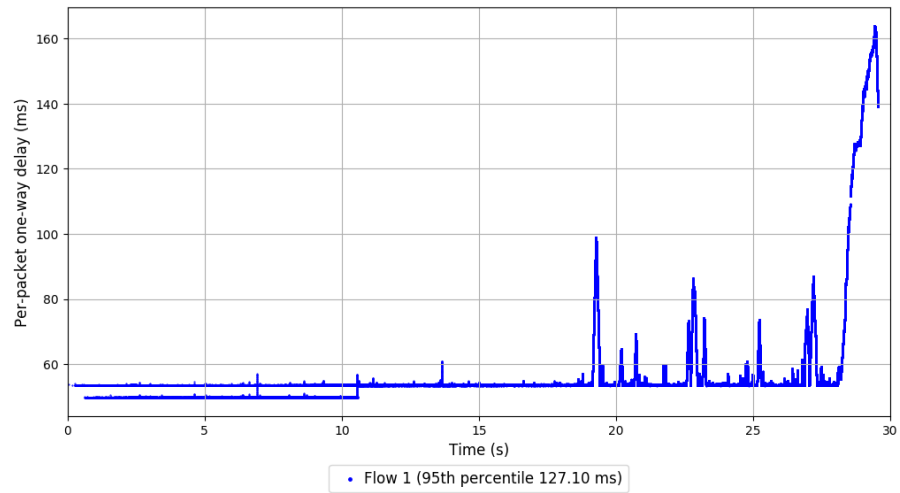
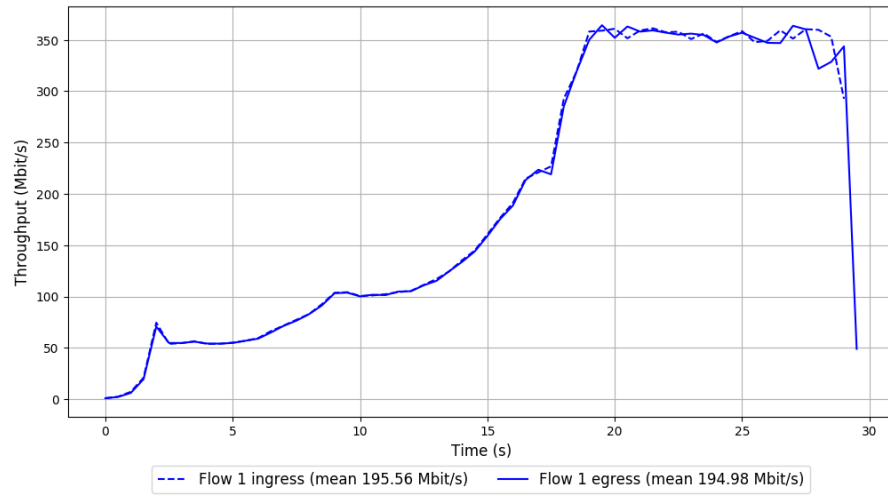
-- Flow 1:

Average throughput: 194.98 Mbit/s

95th percentile per-packet one-way delay: 127.096 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-16 16:11:48

End at: 2018-01-16 16:12:19

Below is generated by plot.py at 2018-01-16 20:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 100.236 ms

Loss rate: 0.02%

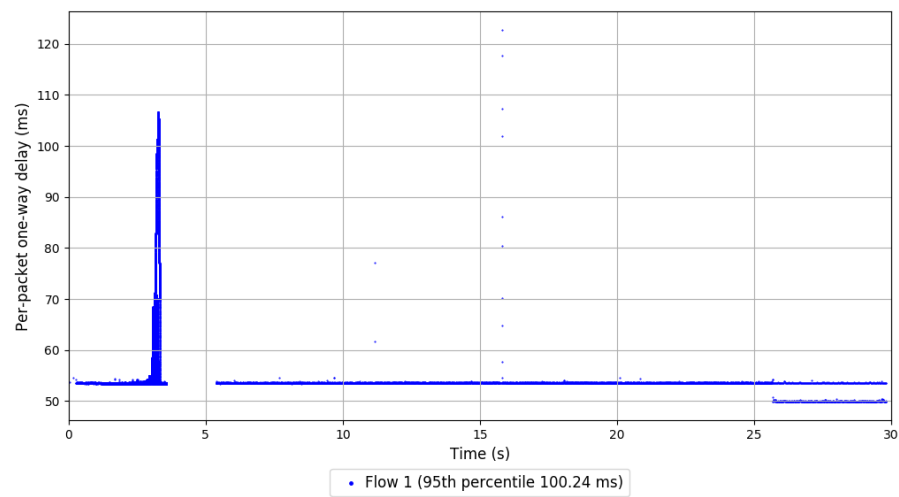
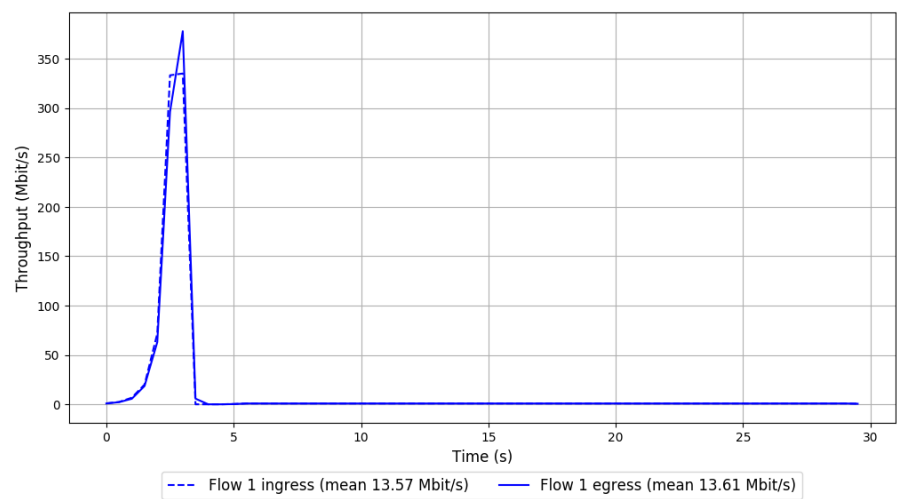
-- Flow 1:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 100.236 ms

Loss rate: 0.02%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-16 16:25:46

End at: 2018-01-16 16:26:16

Below is generated by plot.py at 2018-01-16 20:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.01 Mbit/s

95th percentile per-packet one-way delay: 108.208 ms

Loss rate: 0.00%

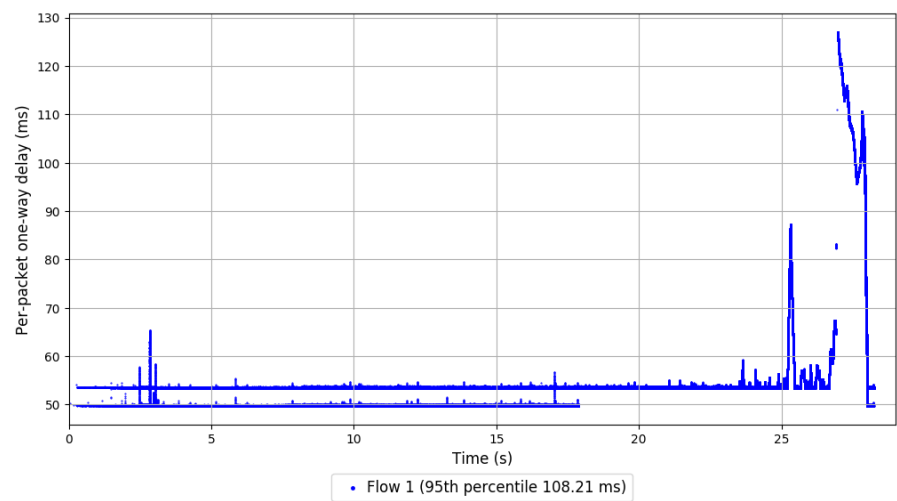
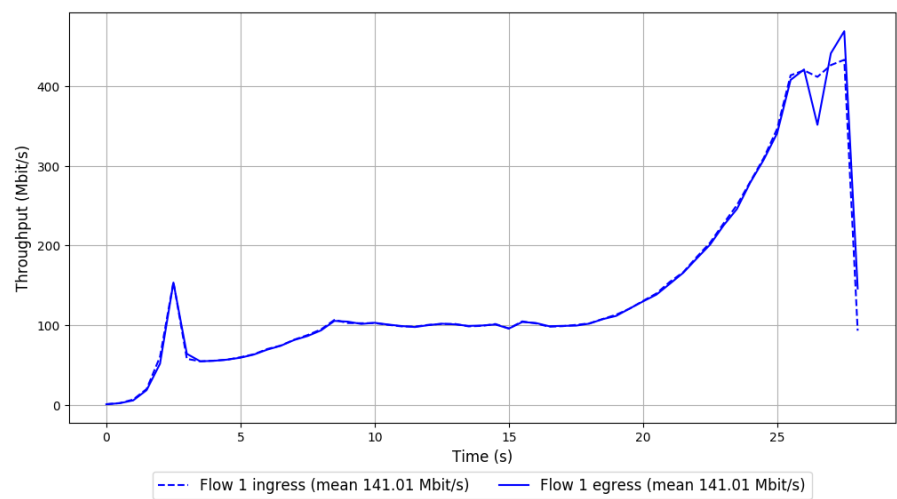
-- Flow 1:

Average throughput: 141.01 Mbit/s

95th percentile per-packet one-way delay: 108.208 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-16 16:39:54
End at: 2018-01-16 16:40:24

# Below is generated by plot.py at 2018-01-16 20:36:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 53.611 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 53.611 ms
Loss rate: 0.06%
```

Run 10: Report of Vivace-LTE — Data Link

