

Pantheon Report

Generated at 2018-01-16 20:59:57 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

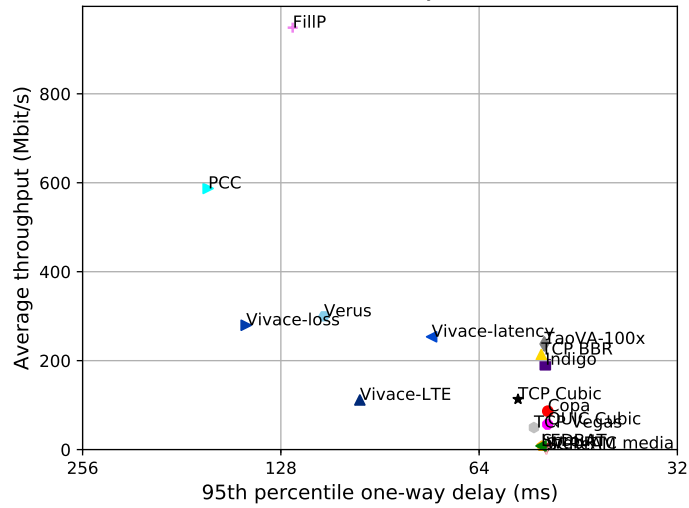
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

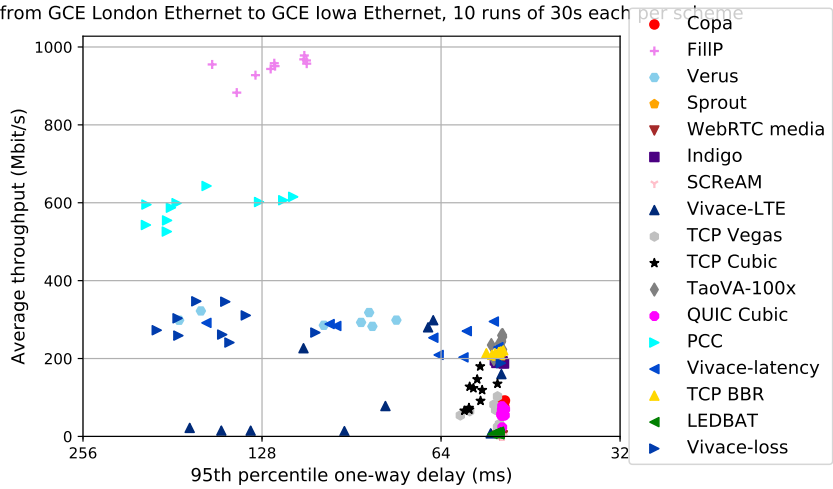
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/llp @ 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 London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	213.78	51.50	0.44
TCP Cubic	10	113.12	55.86	0.51
LEDBAT	10	8.19	51.56	0.71
PCC	10	587.19	165.03	2.07
QUIC Cubic	10	56.73	50.38	0.52
SCReAM	10	0.22	50.58	0.35
WebRTC media	10	2.27	50.61	0.39
Sprout	10	7.82	51.40	0.60
TaoVA-100x	10	237.56	50.95	0.40
TCP Vegas	10	49.55	52.84	0.56
Verus	7	299.69	110.10	1.01
Copa	10	86.41	50.34	0.25
FillP	10	948.73	122.82	2.29
Indigo	10	190.77	50.78	0.41
Vivace-latency	10	253.62	75.57	0.42
Vivace-loss	10	279.57	144.50	2.48
Vivace-LTE	10	111.66	97.11	2.03

Run 1: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-01-16 19:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.86 Mbit/s

95th percentile per-packet one-way delay: 51.084 ms

Loss rate: 0.55%

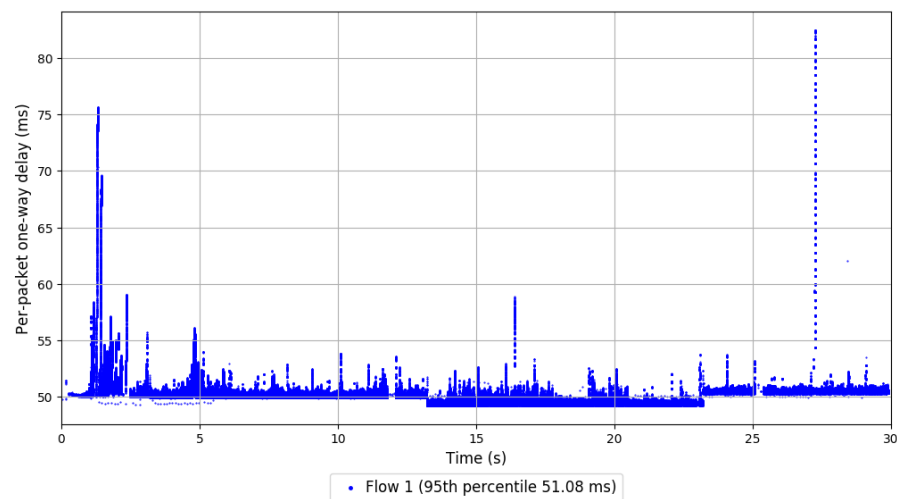
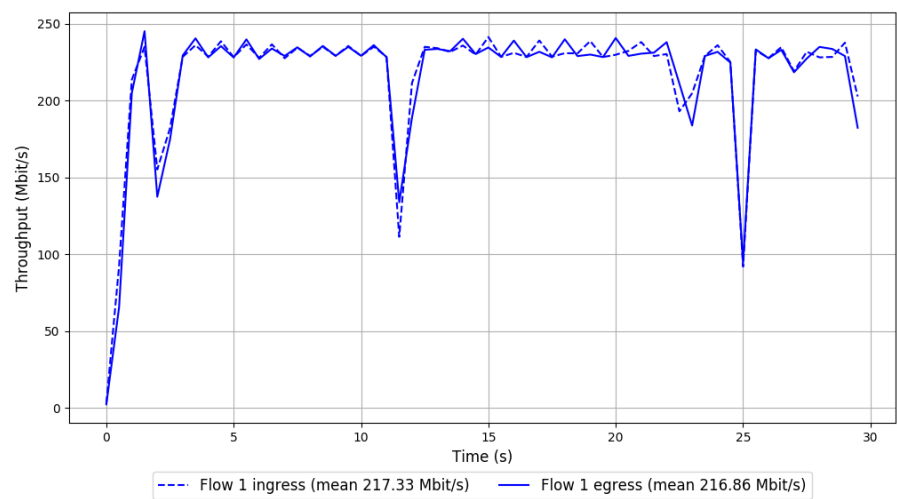
-- Flow 1:

Average throughput: 216.86 Mbit/s

95th percentile per-packet one-way delay: 51.084 ms

Loss rate: 0.55%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-16 14:53:59

End at: 2018-01-16 14:54:29

Below is generated by plot.py at 2018-01-16 19:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.78 Mbit/s

95th percentile per-packet one-way delay: 50.899 ms

Loss rate: 0.67%

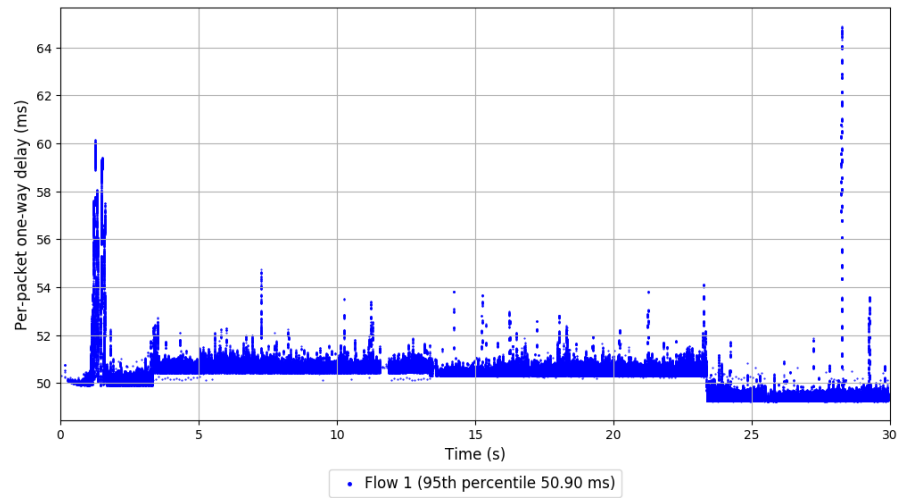
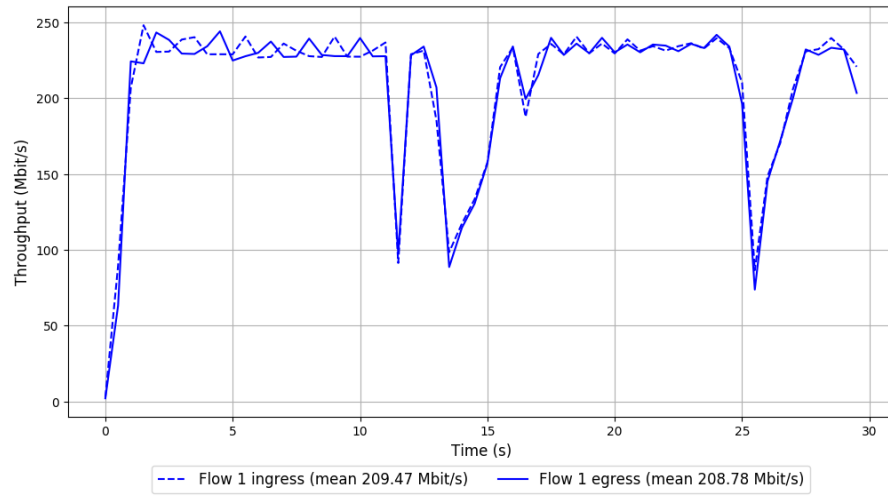
-- Flow 1:

Average throughput: 208.78 Mbit/s

95th percentile per-packet one-way delay: 50.899 ms

Loss rate: 0.67%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 15:08:27

End at: 2018-01-16 15:08:57

Below is generated by plot.py at 2018-01-16 19:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 51.543 ms

Loss rate: 0.40%

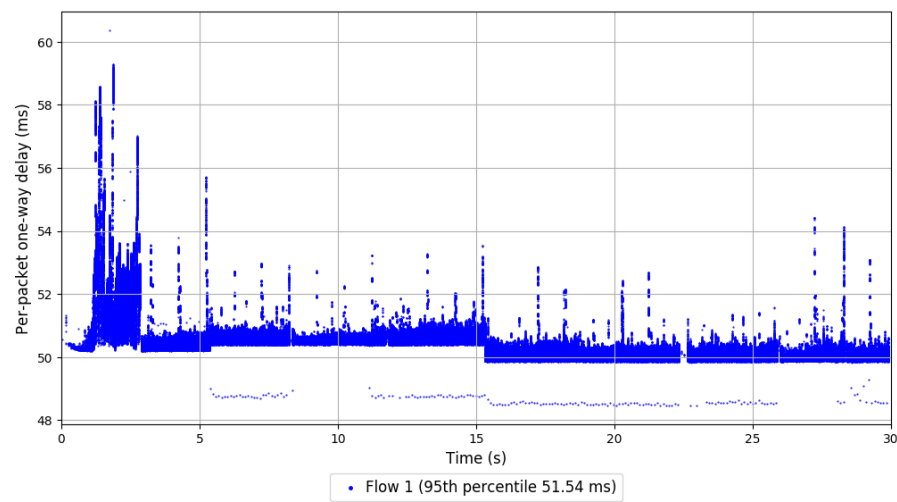
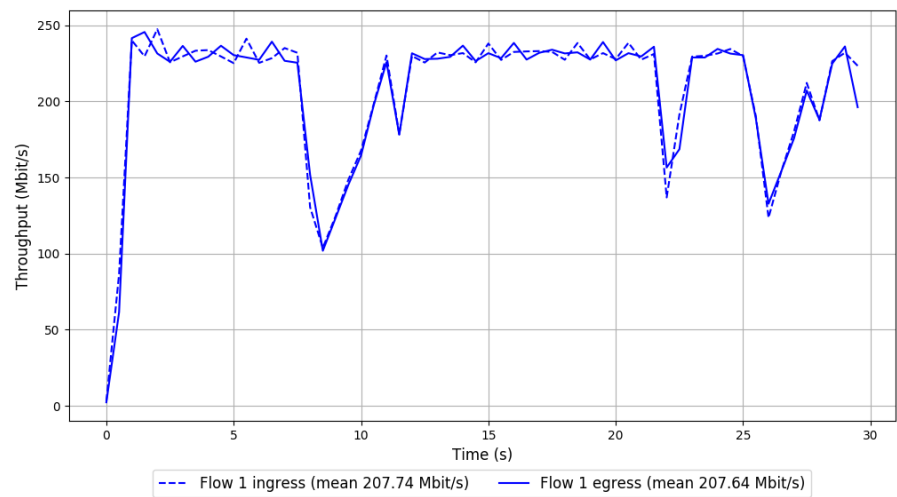
-- Flow 1:

Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 51.543 ms

Loss rate: 0.40%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 15:23:04

End at: 2018-01-16 15:23:34

Below is generated by plot.py at 2018-01-16 19:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.17 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.37%

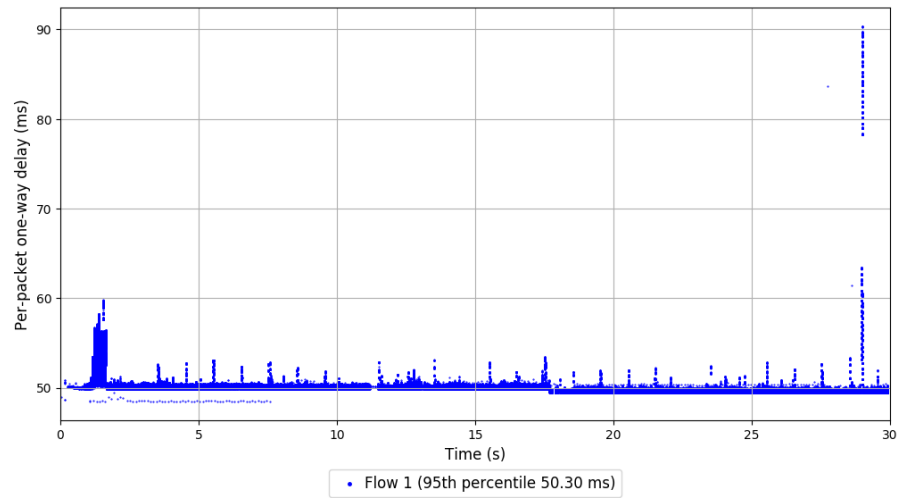
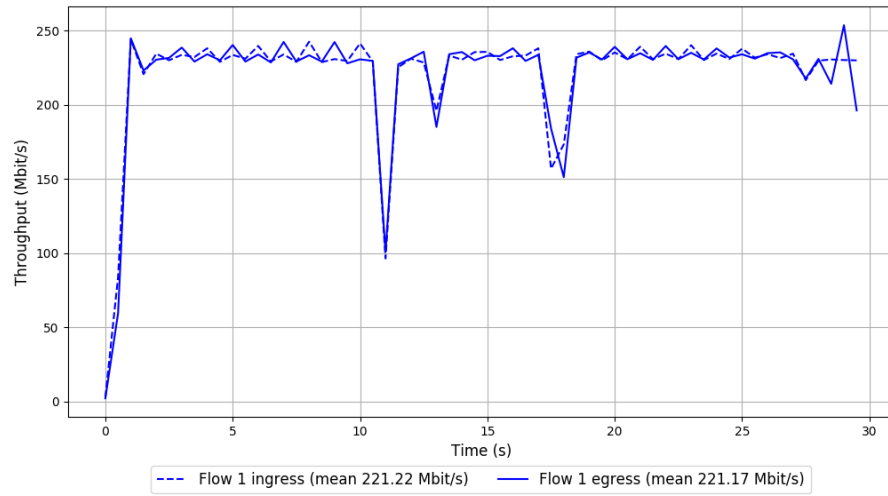
-- Flow 1:

Average throughput: 221.17 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.37%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 15:37:44

End at: 2018-01-16 15:38:14

Below is generated by plot.py at 2018-01-16 19:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.54 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.35%

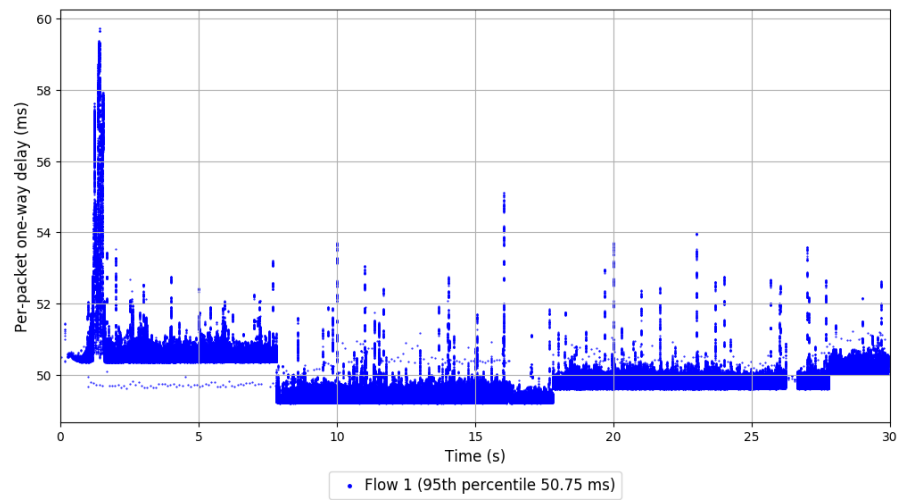
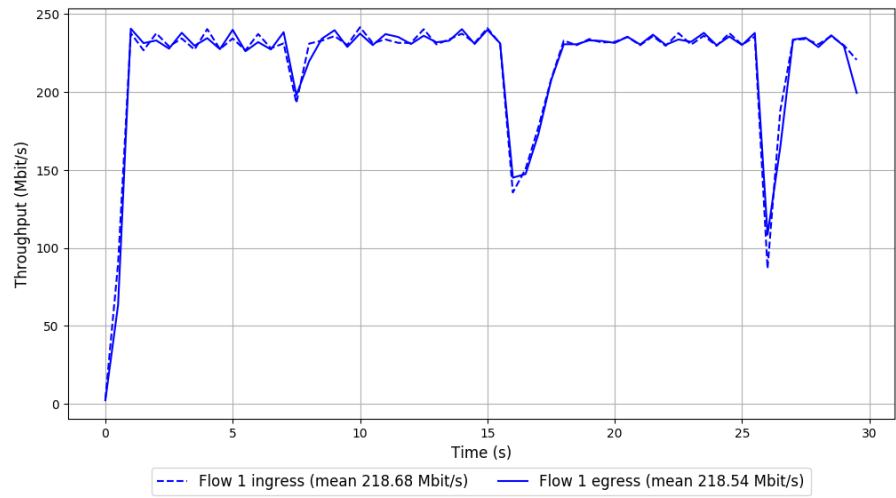
-- Flow 1:

Average throughput: 218.54 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.35%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-01-16 19:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.57 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.40%

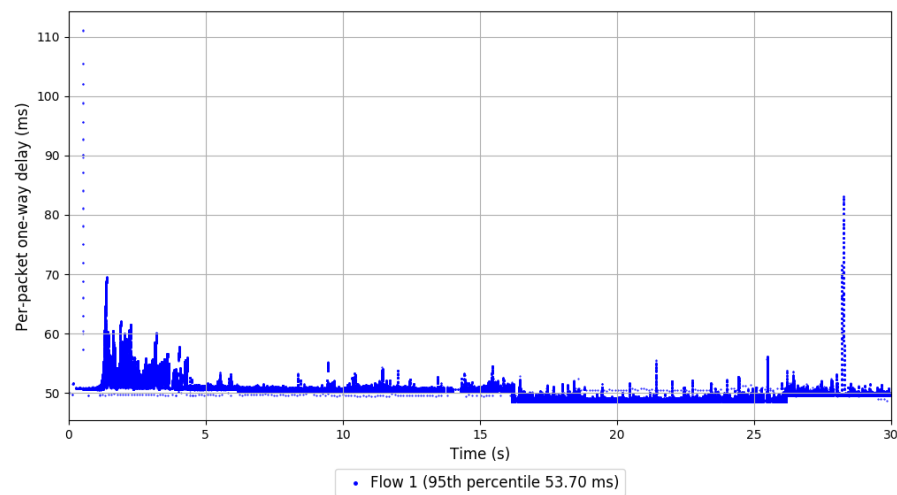
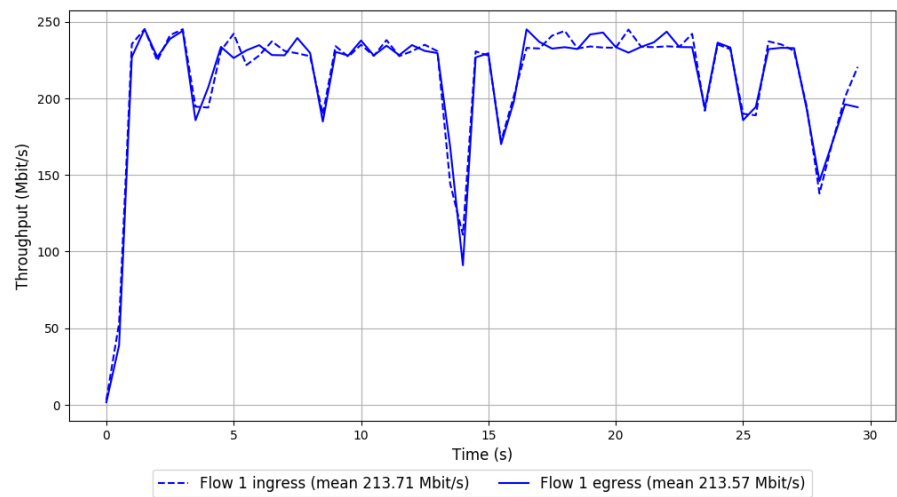
-- Flow 1:

Average throughput: 213.57 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.40%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 16:06:52

End at: 2018-01-16 16:07:22

Below is generated by plot.py at 2018-01-16 19:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.64 Mbit/s

95th percentile per-packet one-way delay: 52.514 ms

Loss rate: 0.36%

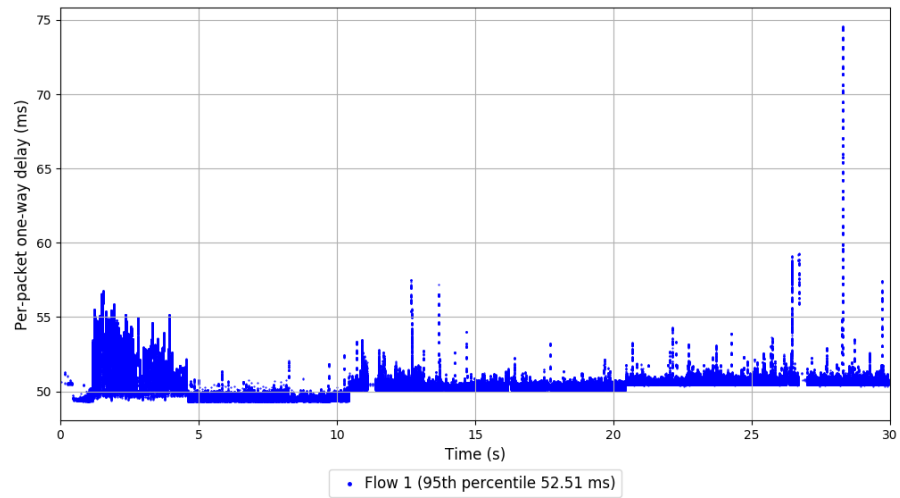
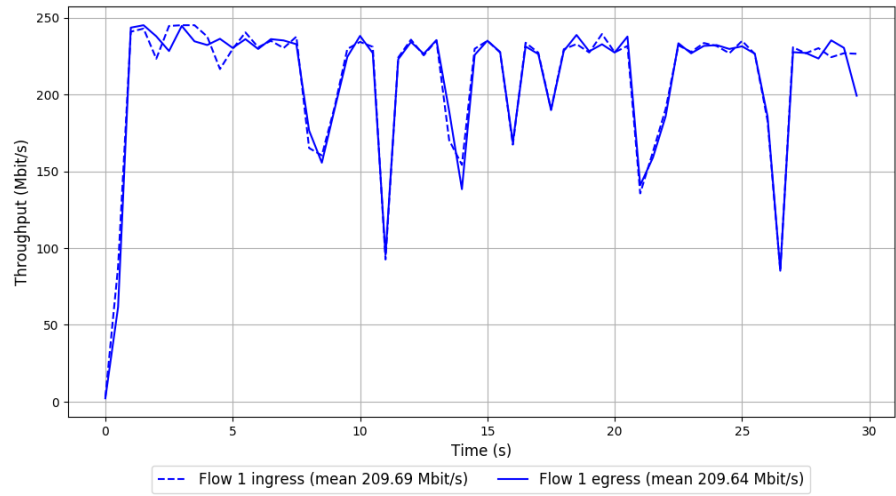
-- Flow 1:

Average throughput: 209.64 Mbit/s

95th percentile per-packet one-way delay: 52.514 ms

Loss rate: 0.36%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-16 16:21:39

End at: 2018-01-16 16:22:09

Below is generated by plot.py at 2018-01-16 19:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.65 Mbit/s

95th percentile per-packet one-way delay: 51.086 ms

Loss rate: 0.37%

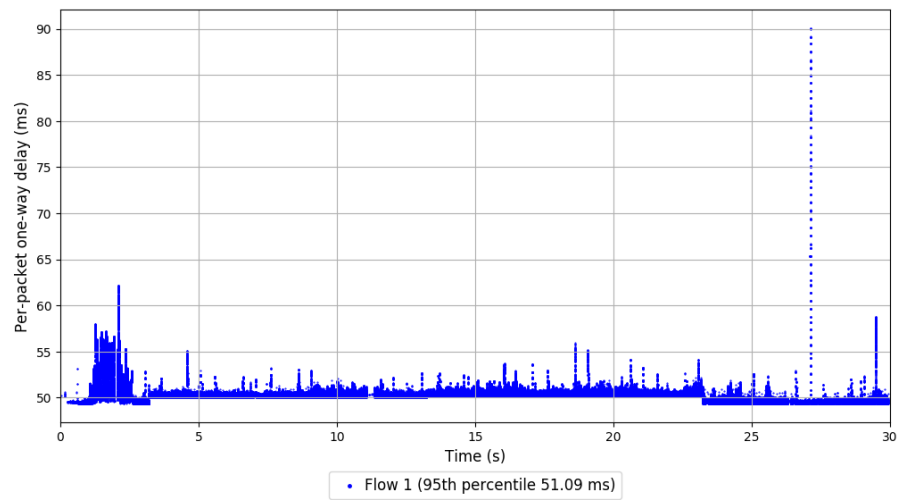
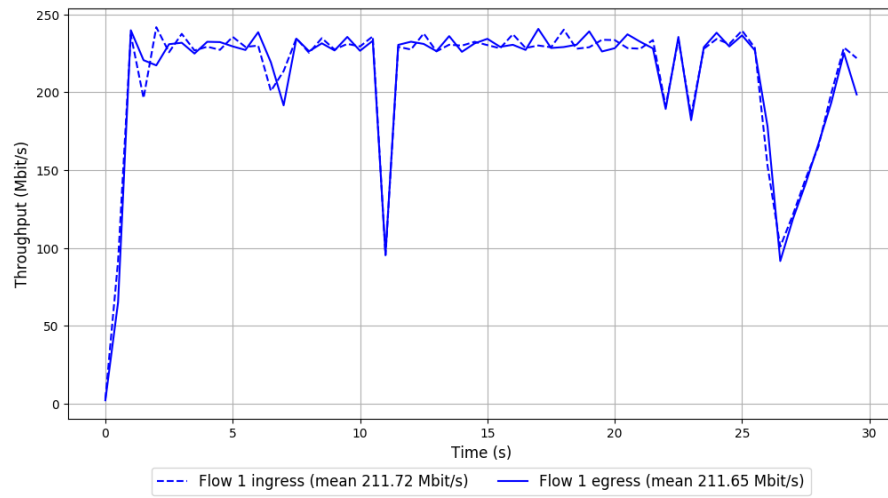
-- Flow 1:

Average throughput: 211.65 Mbit/s

95th percentile per-packet one-way delay: 51.086 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 16:36:22

End at: 2018-01-16 16:36:52

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.56 Mbit/s

95th percentile per-packet one-way delay: 51.183 ms

Loss rate: 0.38%

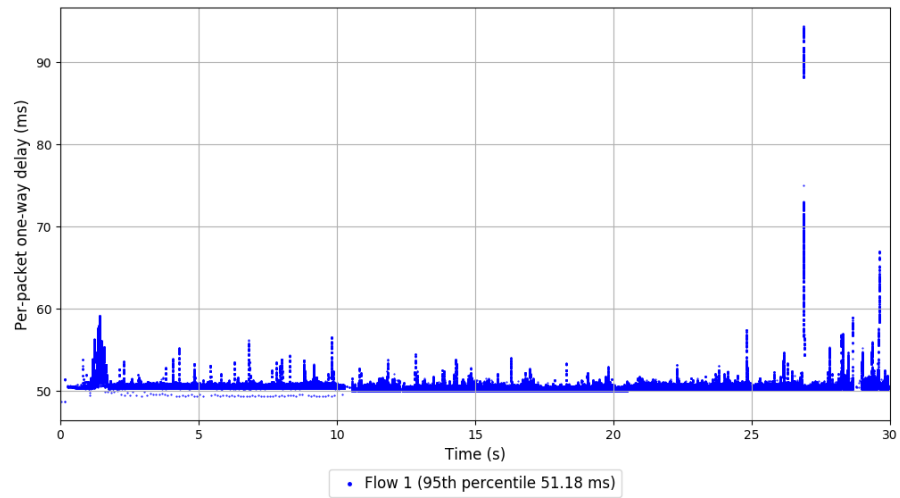
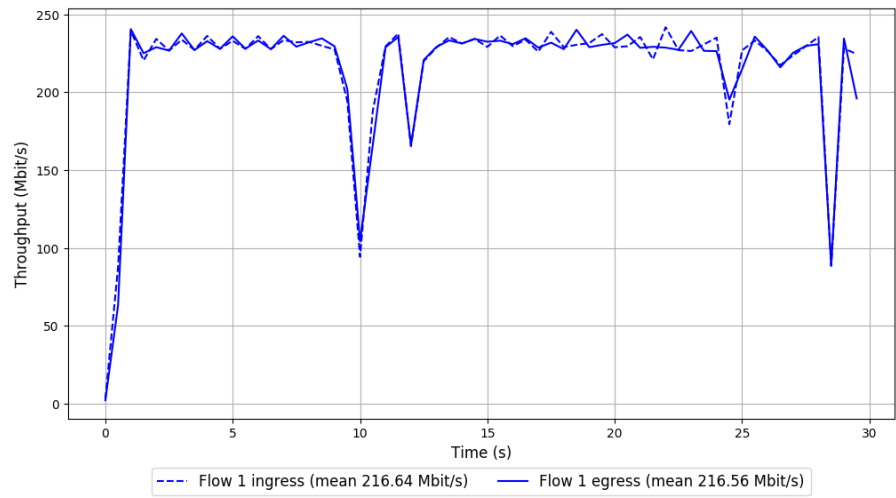
-- Flow 1:

Average throughput: 216.56 Mbit/s

95th percentile per-packet one-way delay: 51.183 ms

Loss rate: 0.38%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.35 Mbit/s

95th percentile per-packet one-way delay: 51.905 ms

Loss rate: 0.52%

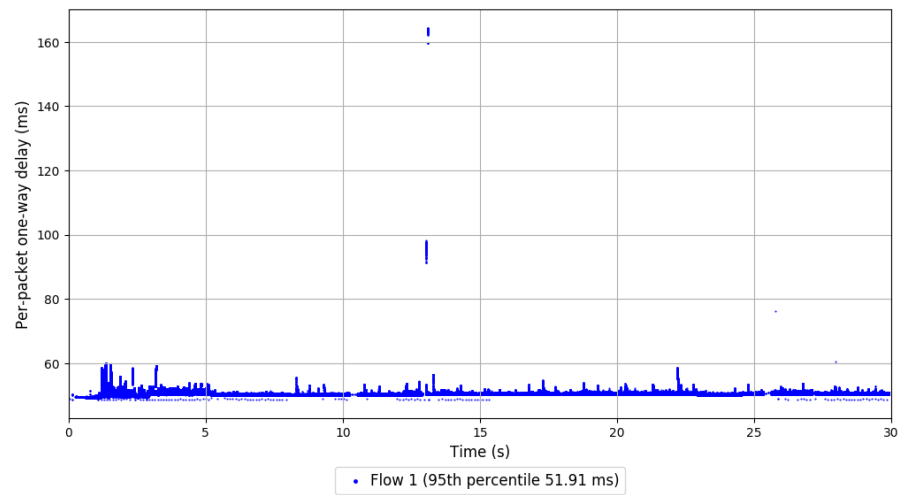
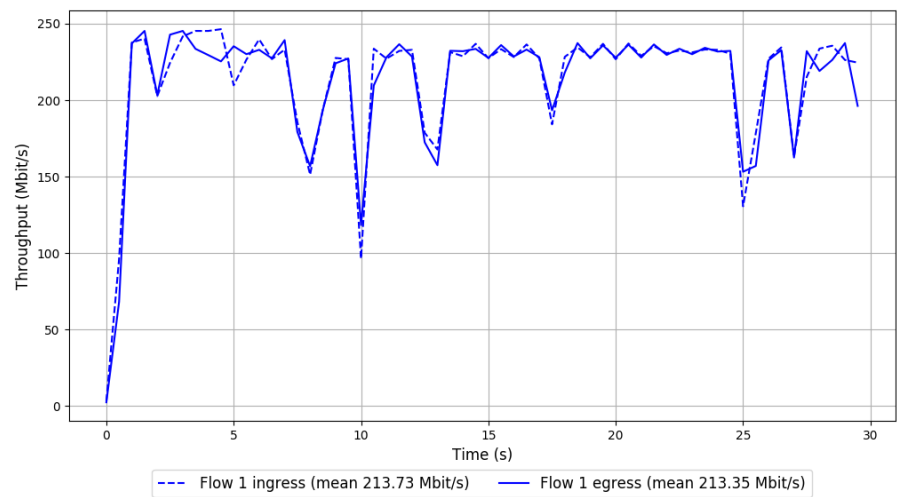
-- Flow 1:

Average throughput: 213.35 Mbit/s

95th percentile per-packet one-way delay: 51.905 ms

Loss rate: 0.52%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 14:40:41

End at: 2018-01-16 14:41:11

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.53 Mbit/s

95th percentile per-packet one-way delay: 55.641 ms

Loss rate: 0.32%

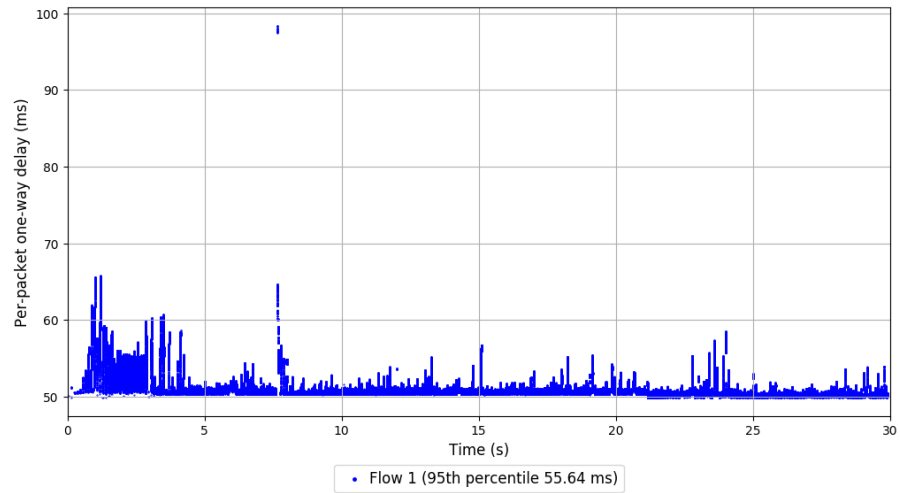
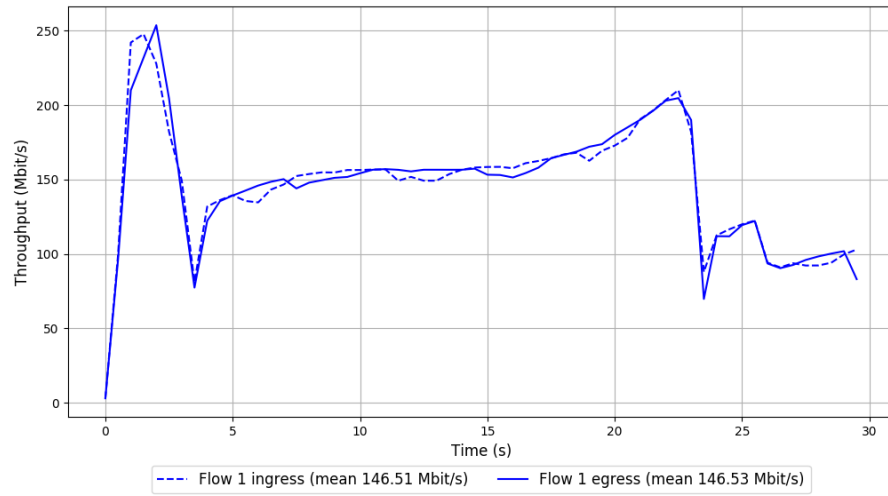
-- Flow 1:

Average throughput: 146.53 Mbit/s

95th percentile per-packet one-way delay: 55.641 ms

Loss rate: 0.32%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 14:55:30

End at: 2018-01-16 14:56:00

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.19 Mbit/s

95th percentile per-packet one-way delay: 51.436 ms

Loss rate: 0.30%

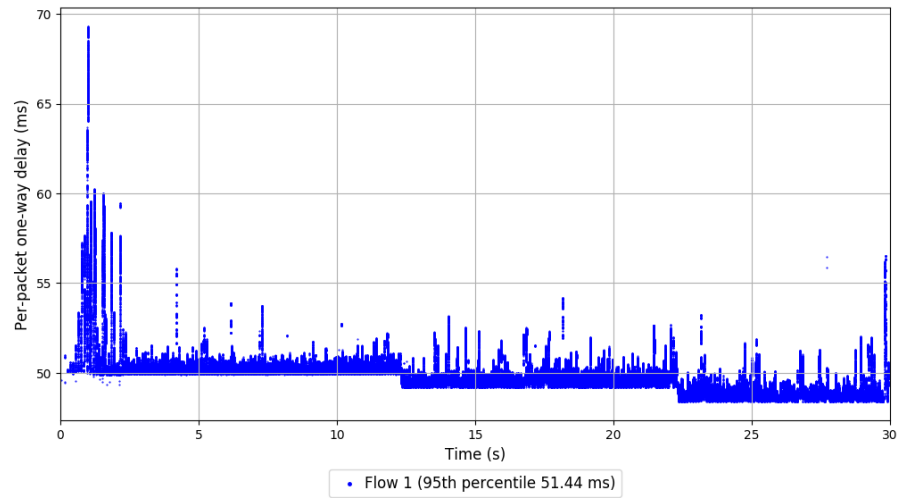
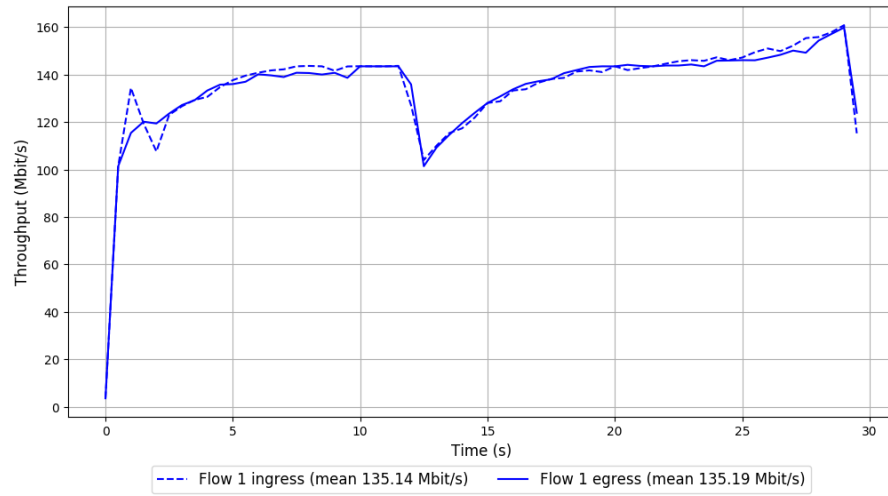
-- Flow 1:

Average throughput: 135.19 Mbit/s

95th percentile per-packet one-way delay: 51.436 ms

Loss rate: 0.30%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 15:09:59

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

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 54.927 ms

Loss rate: 0.98%

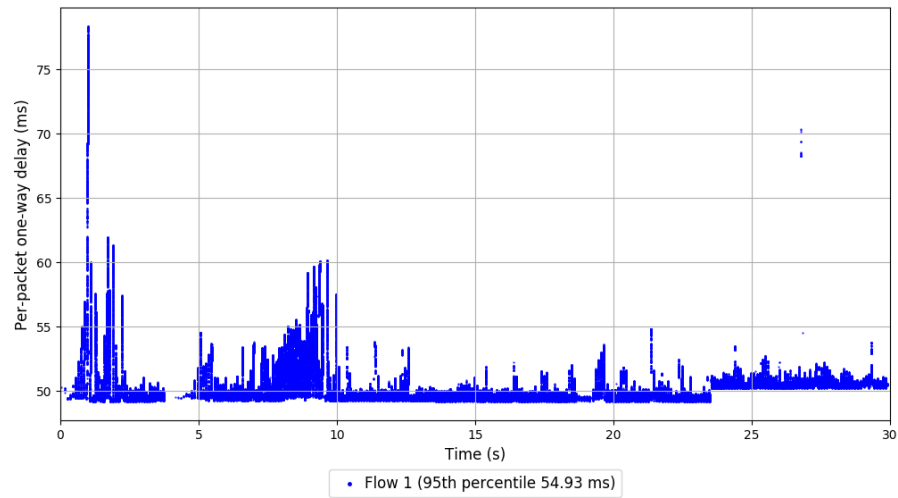
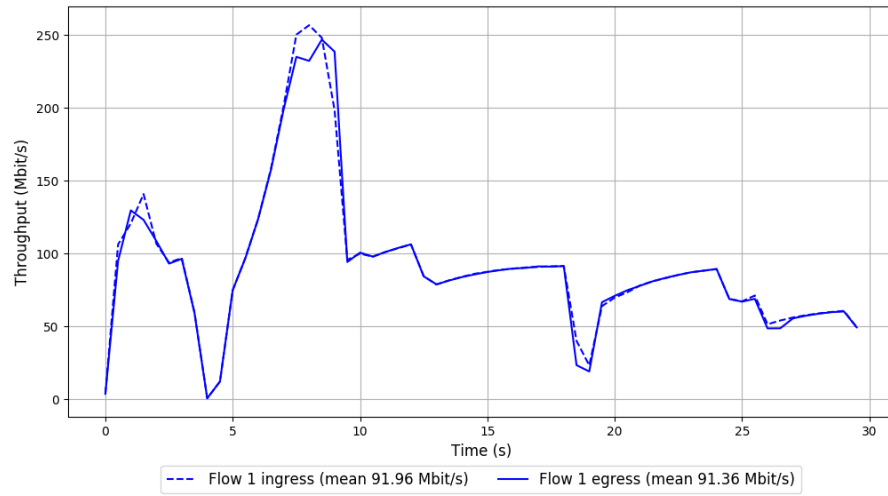
-- Flow 1:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 54.927 ms

Loss rate: 0.98%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 15:24:37

End at: 2018-01-16 15:25:07

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.05 Mbit/s

95th percentile per-packet one-way delay: 58.474 ms

Loss rate: 0.67%

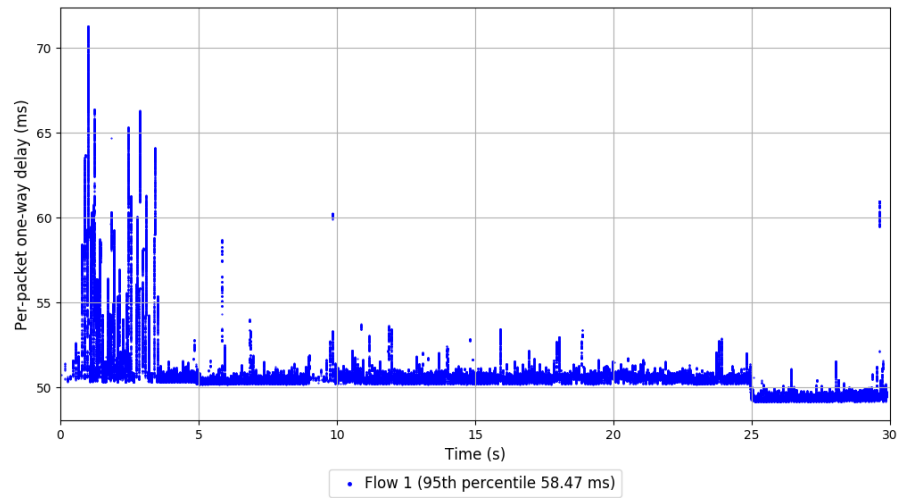
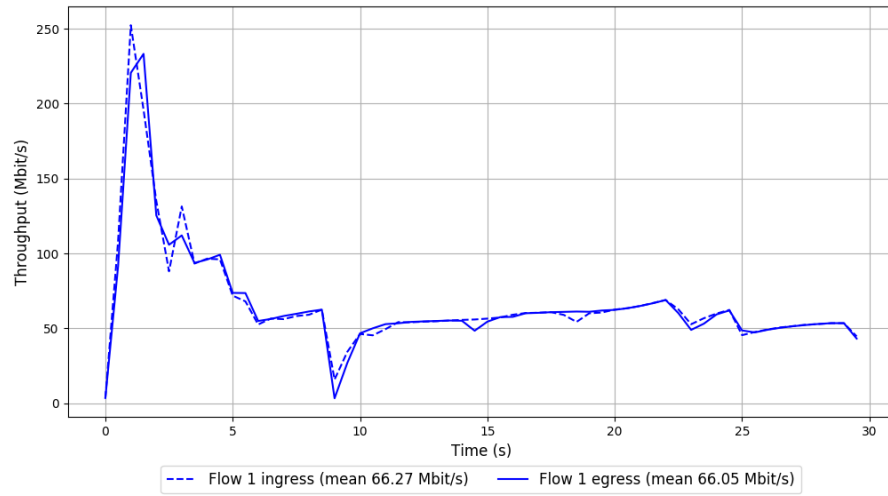
-- Flow 1:

Average throughput: 66.05 Mbit/s

95th percentile per-packet one-way delay: 58.474 ms

Loss rate: 0.67%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 15:39:18

End at: 2018-01-16 15:39:48

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.65 Mbit/s

95th percentile per-packet one-way delay: 57.297 ms

Loss rate: 0.67%

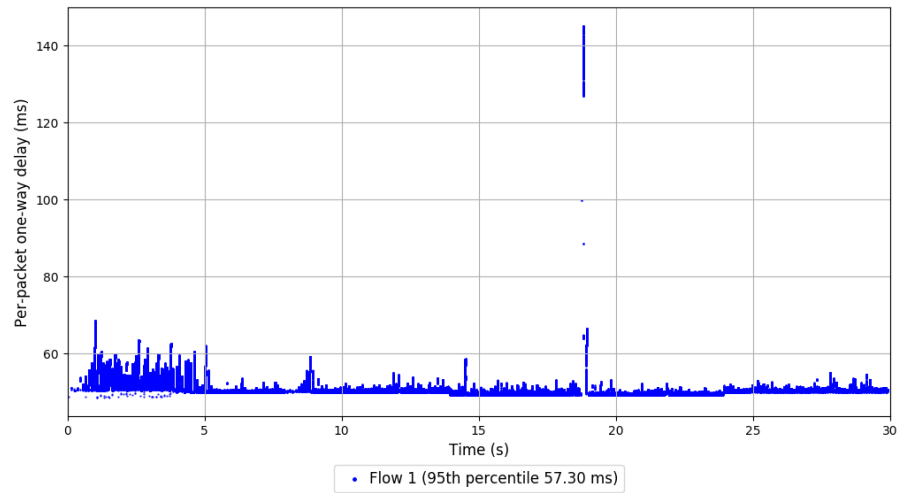
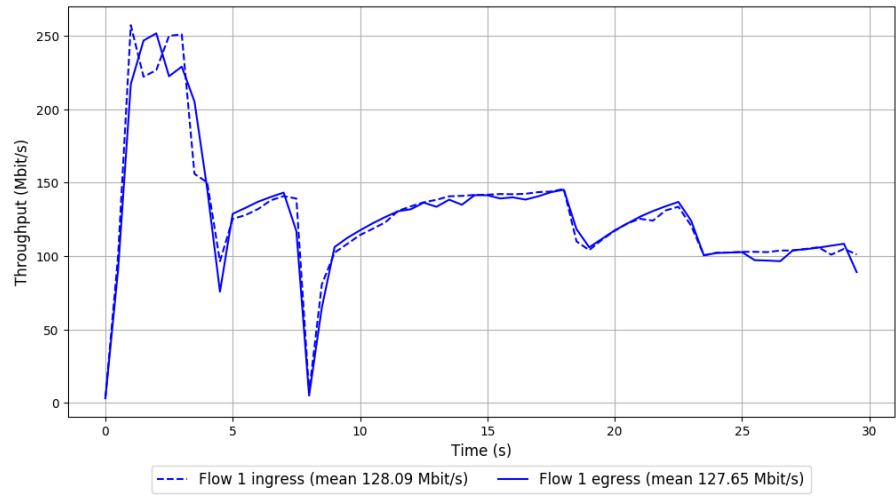
-- Flow 1:

Average throughput: 127.65 Mbit/s

95th percentile per-packet one-way delay: 57.297 ms

Loss rate: 0.67%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 15:53:50

End at: 2018-01-16 15:54:20

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 57.355 ms

Loss rate: 0.48%

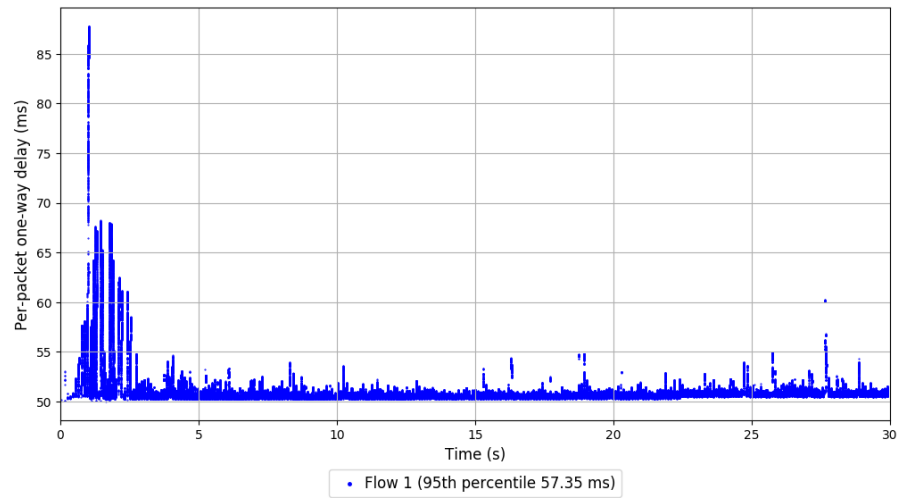
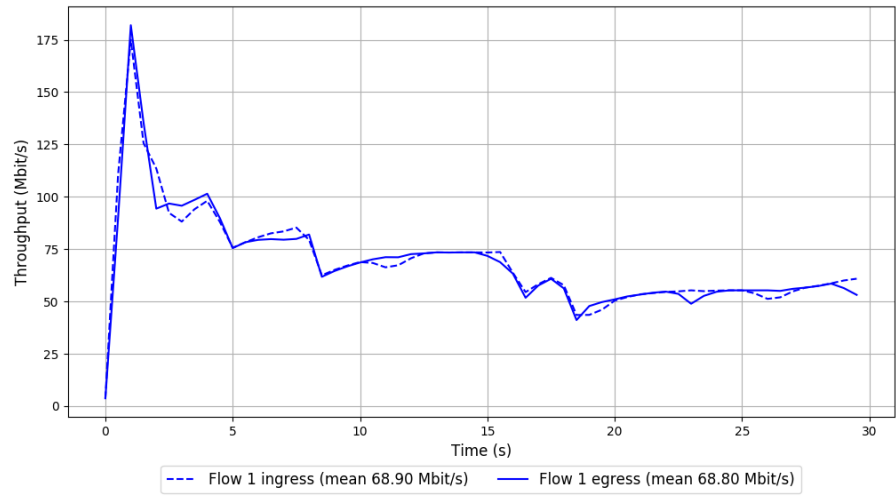
-- Flow 1:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 57.355 ms

Loss rate: 0.48%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 16:08:25

End at: 2018-01-16 16:08:55

Below is generated by plot.py at 2018-01-16 19:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.75 Mbit/s

95th percentile per-packet one-way delay: 56.469 ms

Loss rate: 0.40%

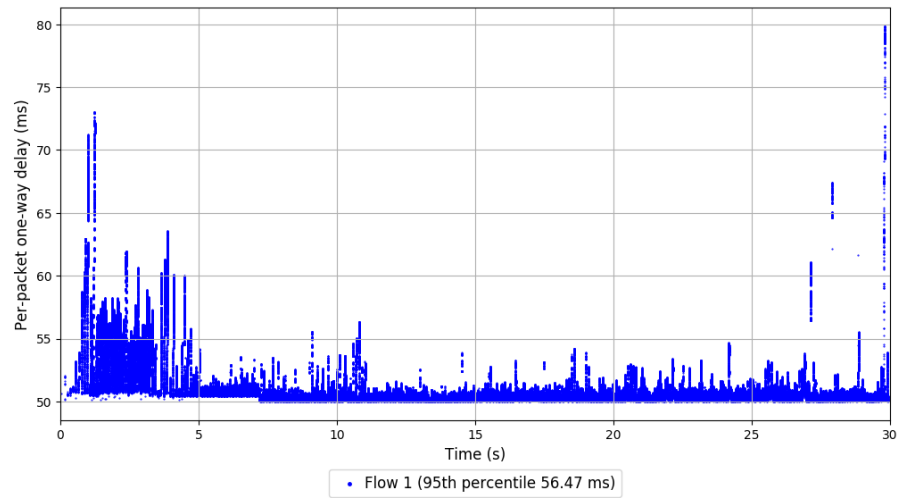
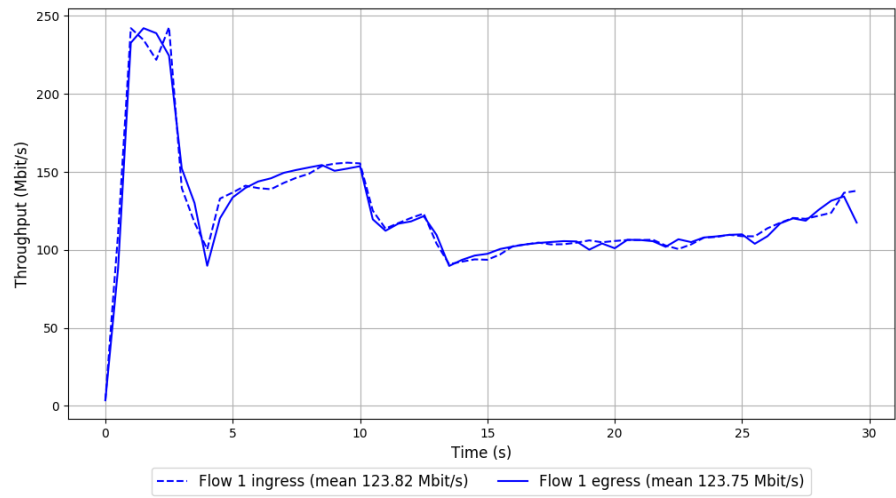
-- Flow 1:

Average throughput: 123.75 Mbit/s

95th percentile per-packet one-way delay: 56.469 ms

Loss rate: 0.40%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 16:23:13

End at: 2018-01-16 16:23:43

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.67 Mbit/s

95th percentile per-packet one-way delay: 54.998 ms

Loss rate: 0.24%

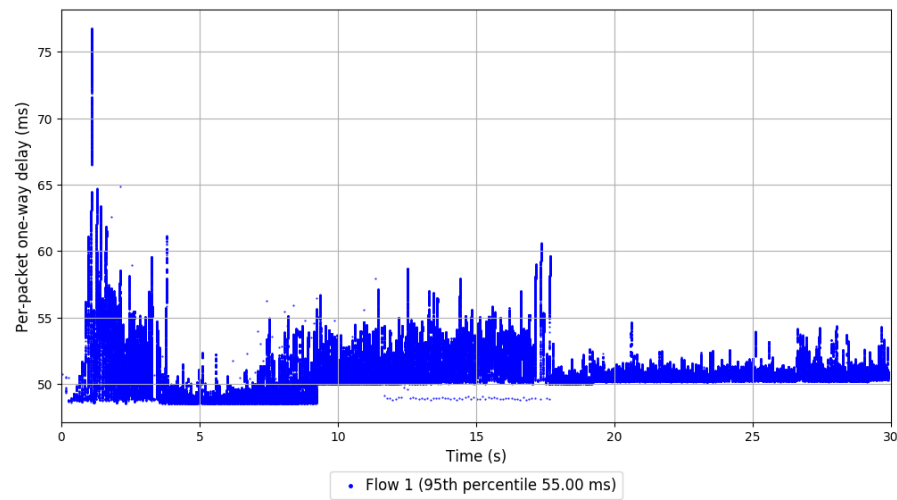
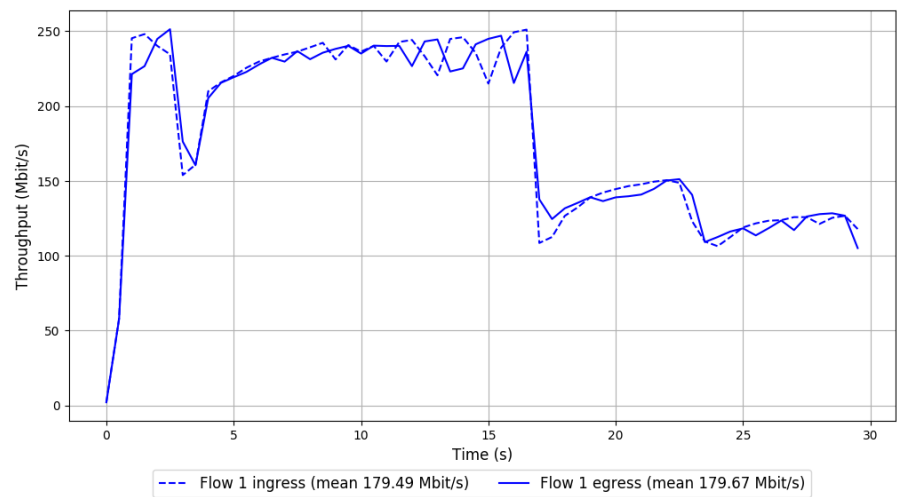
-- Flow 1:

Average throughput: 179.67 Mbit/s

95th percentile per-packet one-way delay: 54.998 ms

Loss rate: 0.24%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 16:37:56

End at: 2018-01-16 16:38:26

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 57.450 ms

Loss rate: 0.33%

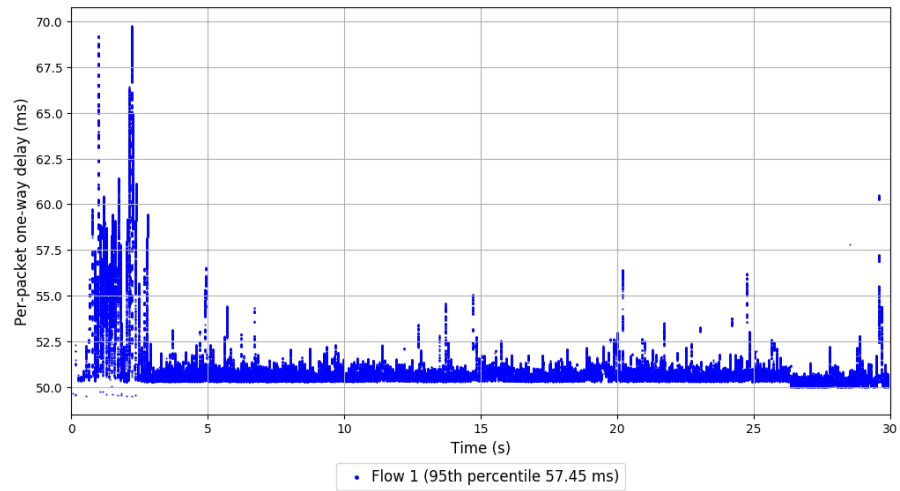
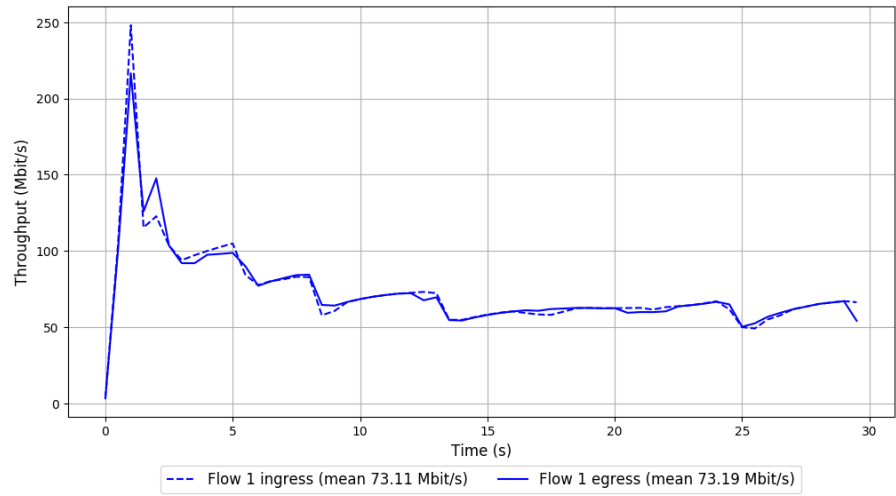
-- Flow 1:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 57.450 ms

Loss rate: 0.33%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

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

End at: 2018-01-16 16:53:22

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.02 Mbit/s

95th percentile per-packet one-way delay: 54.587 ms

Loss rate: 0.67%

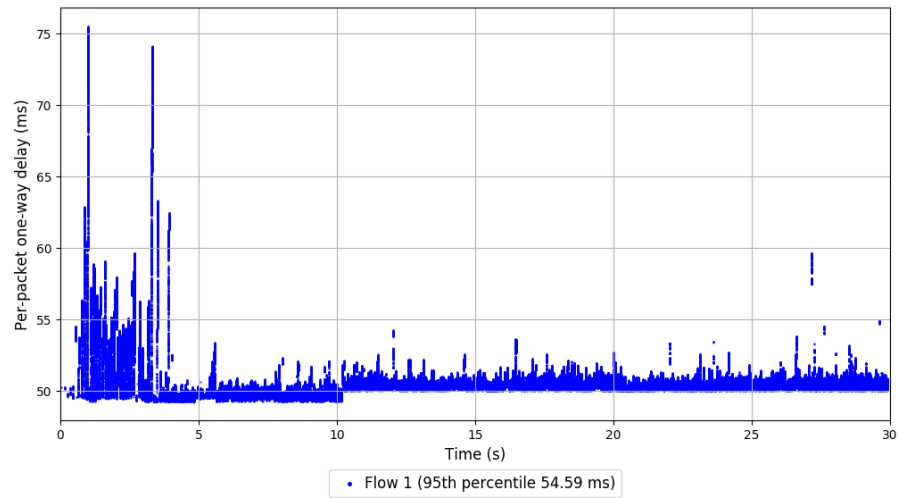
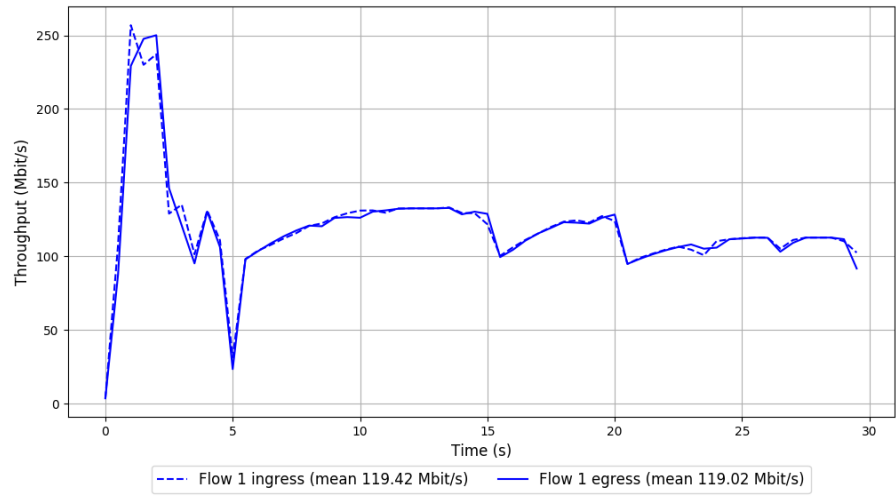
-- Flow 1:

Average throughput: 119.02 Mbit/s

95th percentile per-packet one-way delay: 54.587 ms

Loss rate: 0.67%

Run 10: Report of TCP Cubic — Data Link

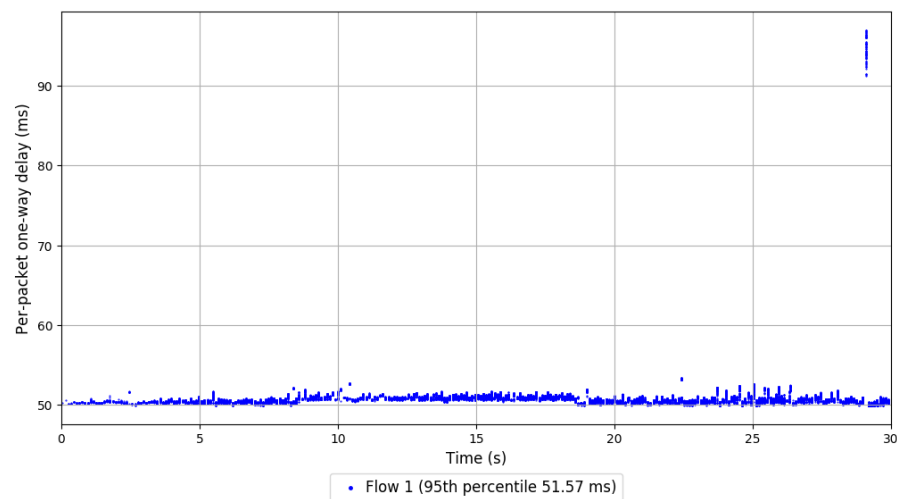
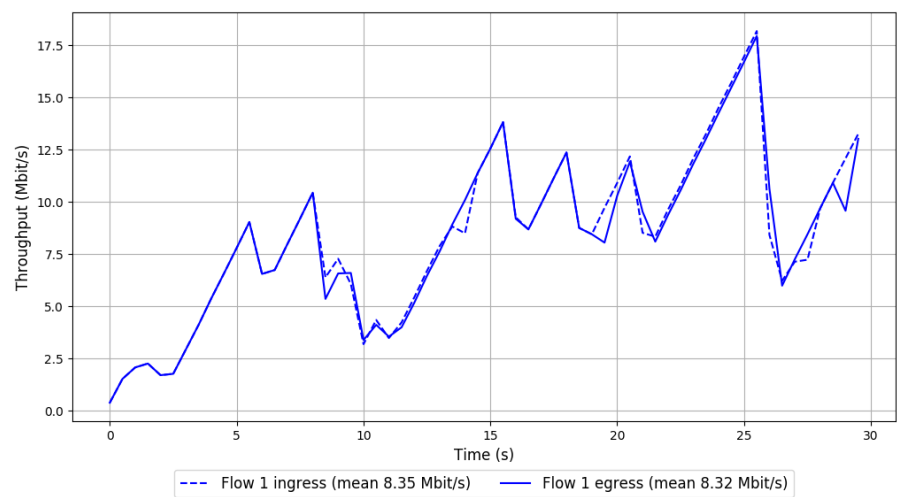


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 14:42:43
End at: 2018-01-16 14:43:13

# Below is generated by plot.py at 2018-01-16 19:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 51.567 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 51.567 ms
Loss rate: 0.74%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-16 14:57:29

End at: 2018-01-16 14:57:59

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 51.858 ms

Loss rate: 0.81%

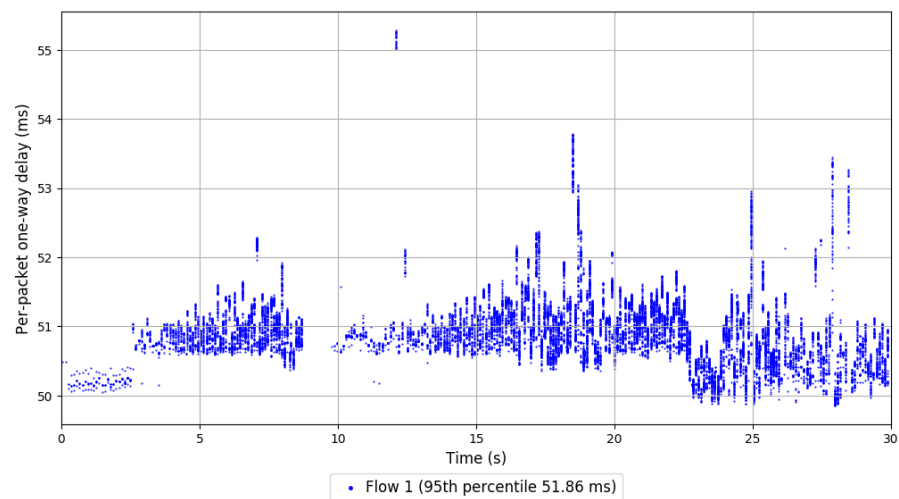
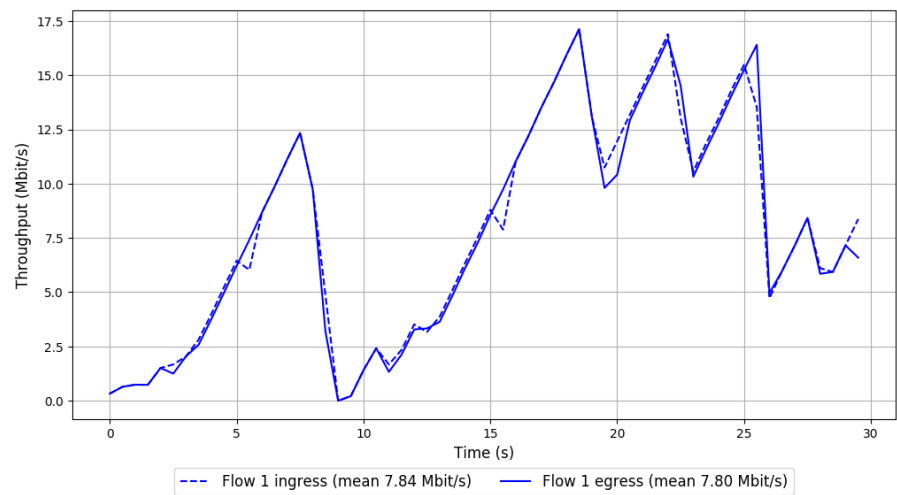
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 51.858 ms

Loss rate: 0.81%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 15:11:56

End at: 2018-01-16 15:12:26

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.45 Mbit/s

95th percentile per-packet one-way delay: 51.051 ms

Loss rate: 1.94%

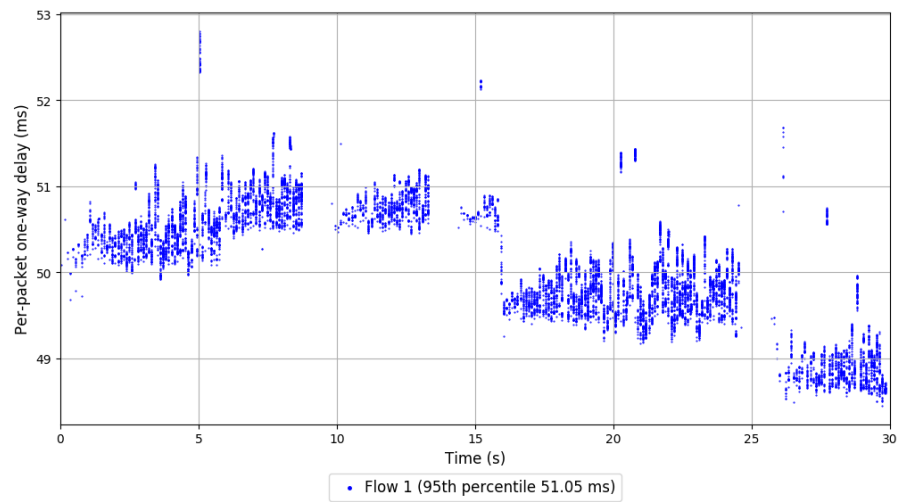
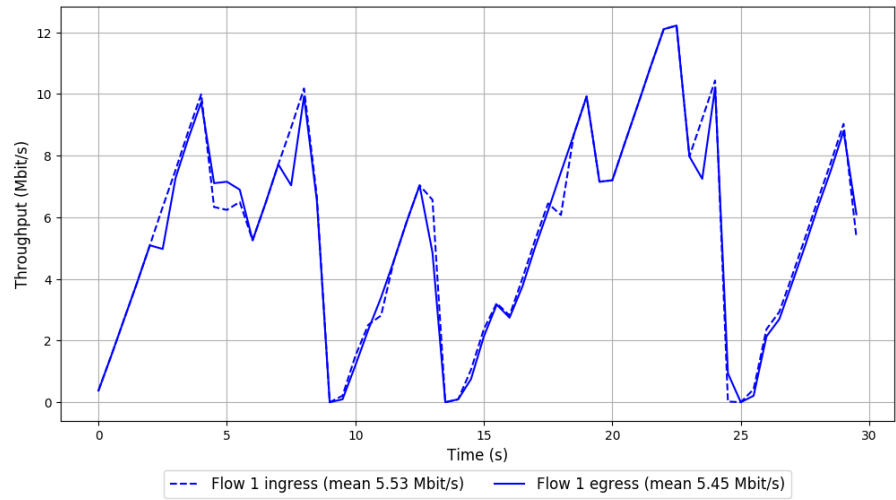
-- Flow 1:

Average throughput: 5.45 Mbit/s

95th percentile per-packet one-way delay: 51.051 ms

Loss rate: 1.94%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 15:26:33

End at: 2018-01-16 15:27:03

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 51.390 ms

Loss rate: 0.54%

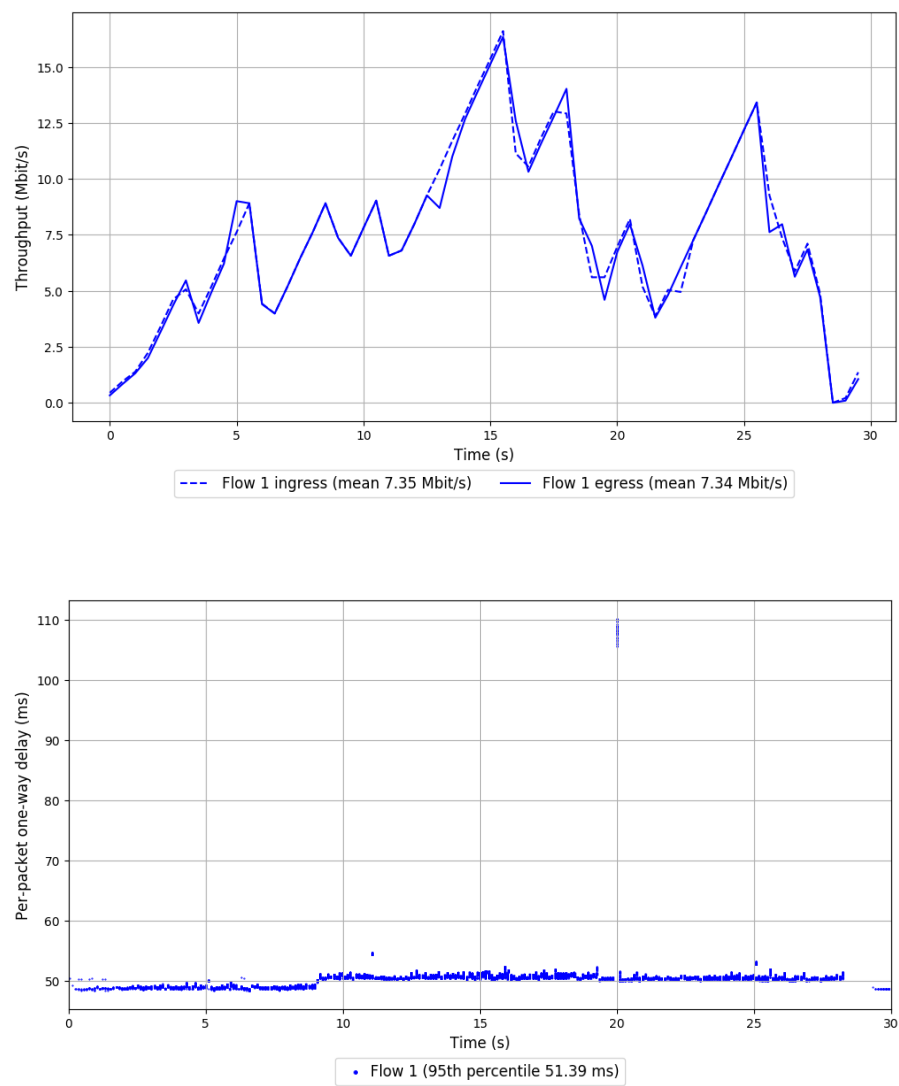
-- Flow 1:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 51.390 ms

Loss rate: 0.54%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-16 15:41:20

End at: 2018-01-16 15:41:50

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.10%

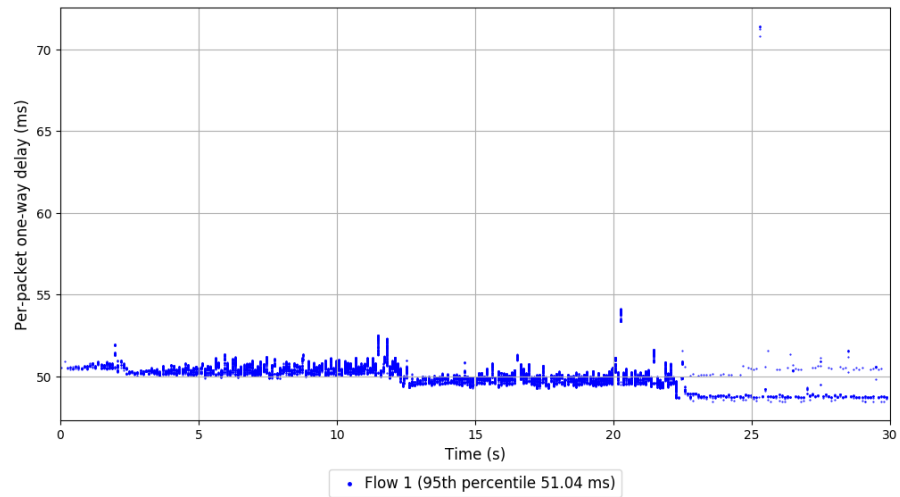
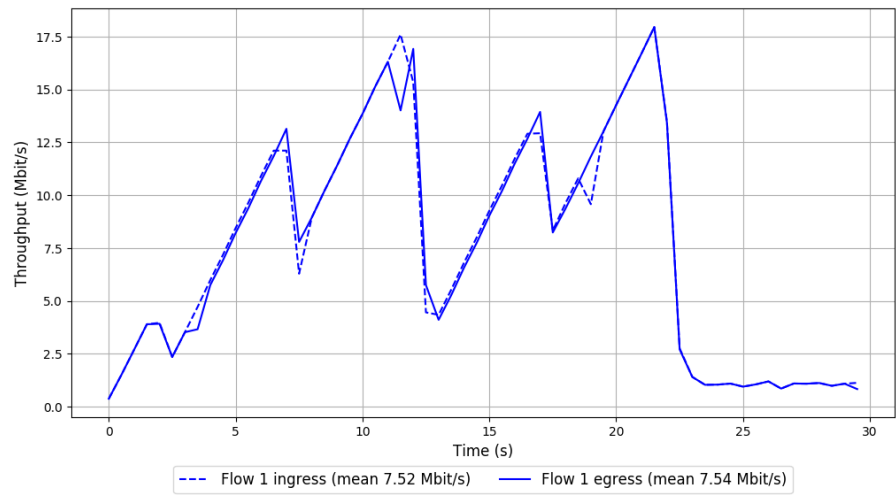
-- Flow 1:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 15:55:46

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

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 51.754 ms

Loss rate: 0.85%

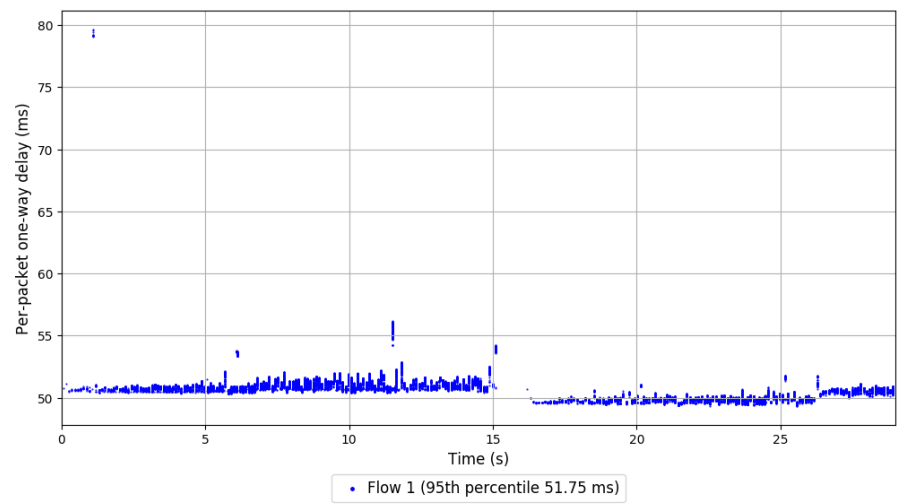
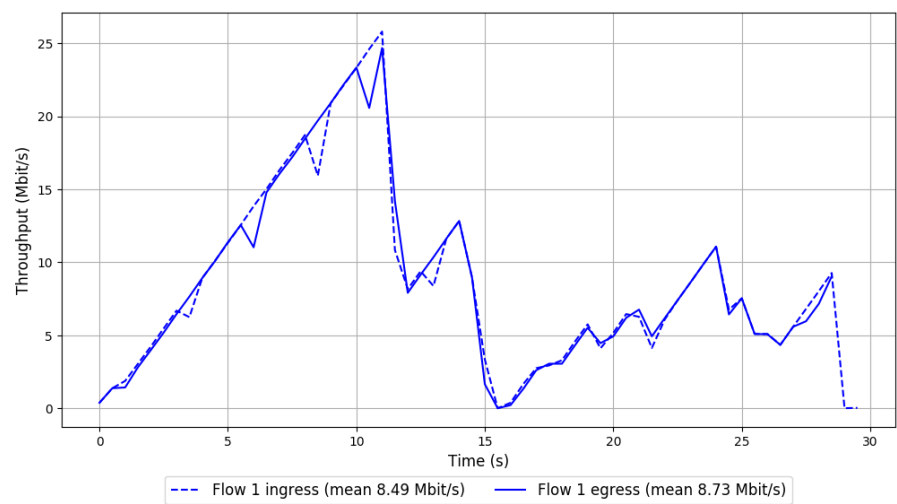
-- Flow 1:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 51.754 ms

Loss rate: 0.85%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 16:10:26

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

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.16 Mbit/s

95th percentile per-packet one-way delay: 51.149 ms

Loss rate: 0.26%

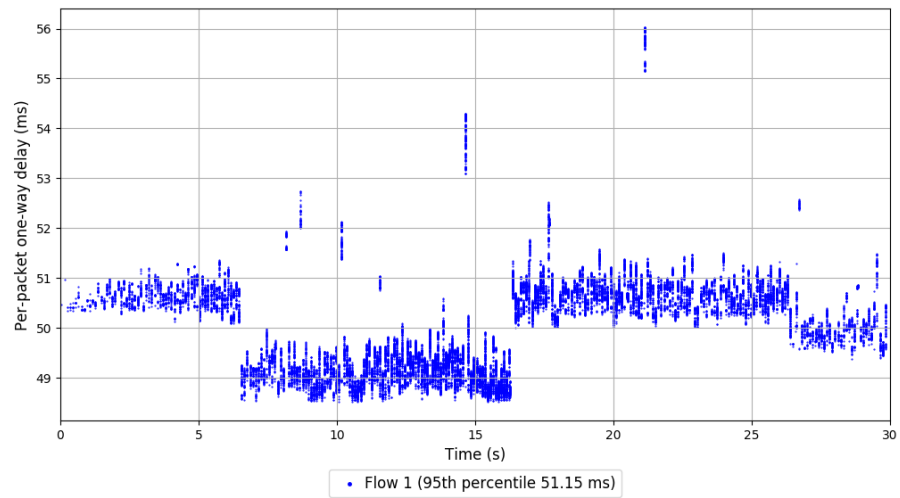
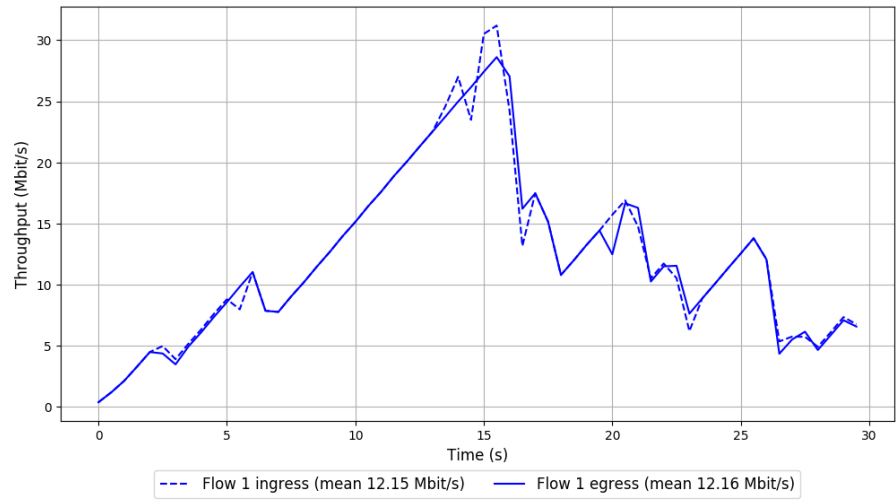
-- Flow 1:

Average throughput: 12.16 Mbit/s

95th percentile per-packet one-way delay: 51.149 ms

Loss rate: 0.26%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

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

End at: 2018-01-16 16:25:45

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.30 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.49%

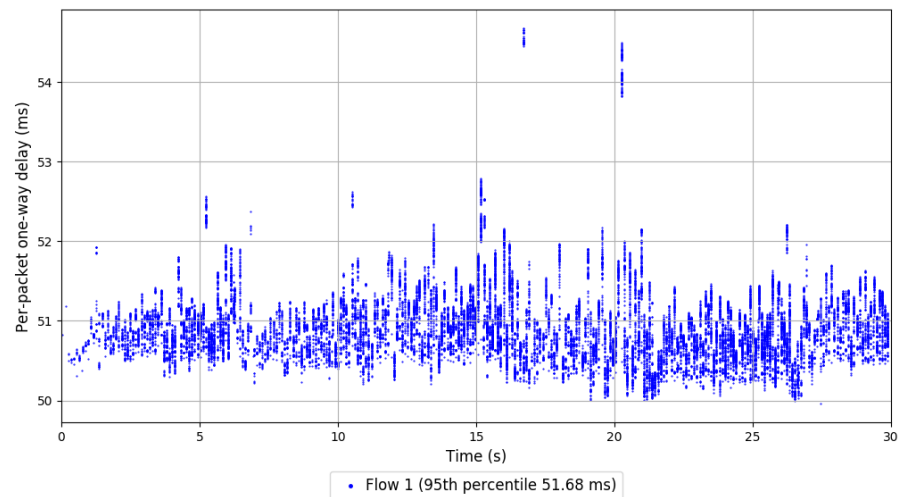
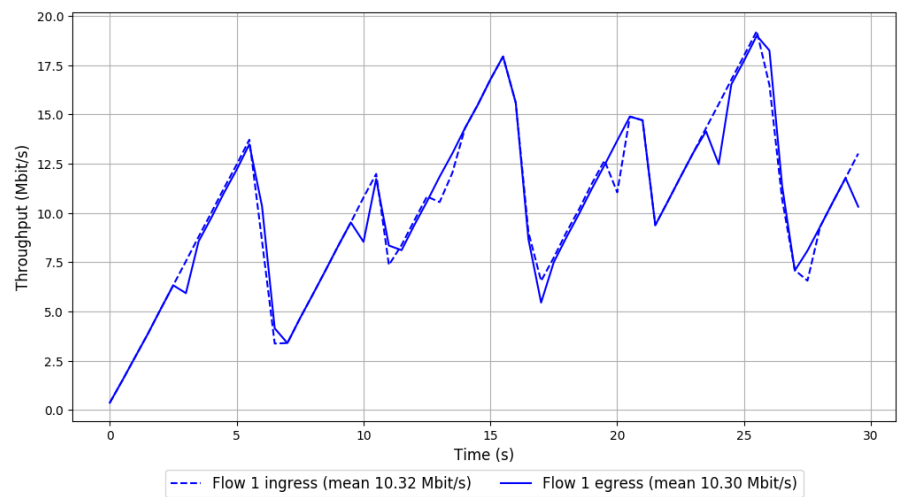
-- Flow 1:

Average throughput: 10.30 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.49%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 16:39:55

End at: 2018-01-16 16:40:25

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 52.423 ms

Loss rate: 1.05%

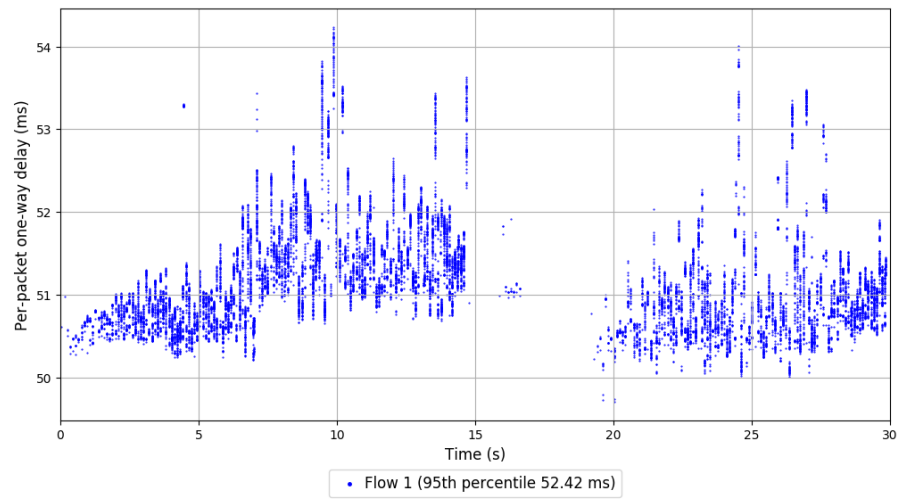
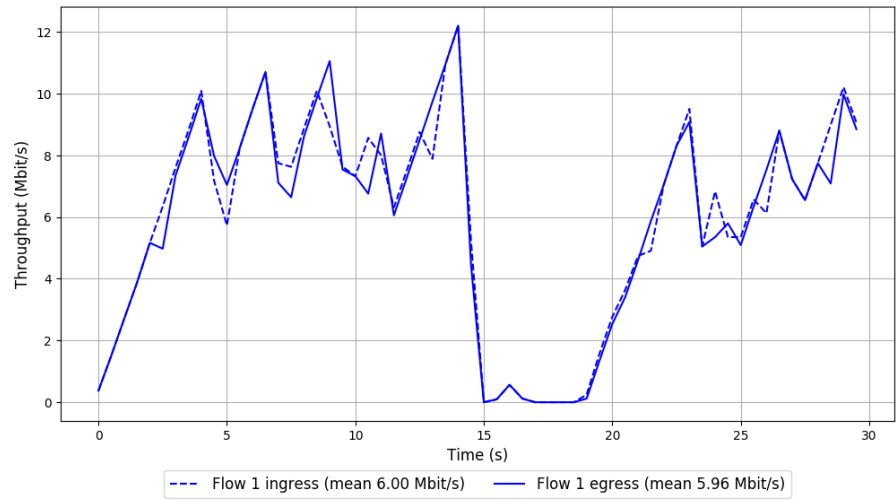
-- Flow 1:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 52.423 ms

Loss rate: 1.05%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

End at: 2018-01-16 16:55:24

Below is generated by plot.py at 2018-01-16 19:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 51.648 ms

Loss rate: 0.36%

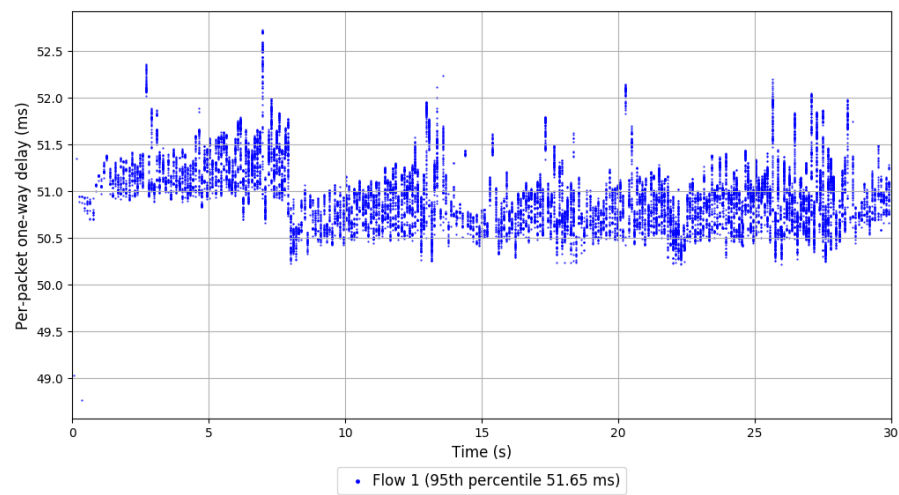
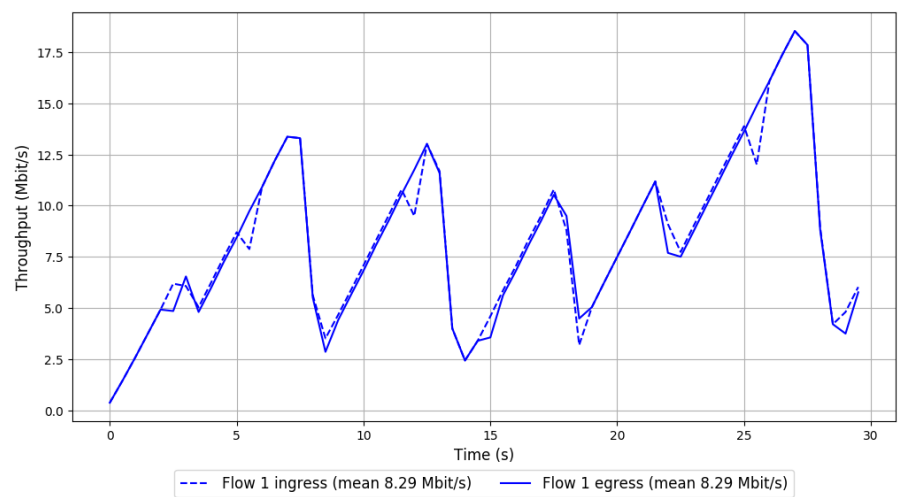
-- Flow 1:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 51.648 ms

Loss rate: 0.36%

Run 10: Report of LEDBAT — Data Link

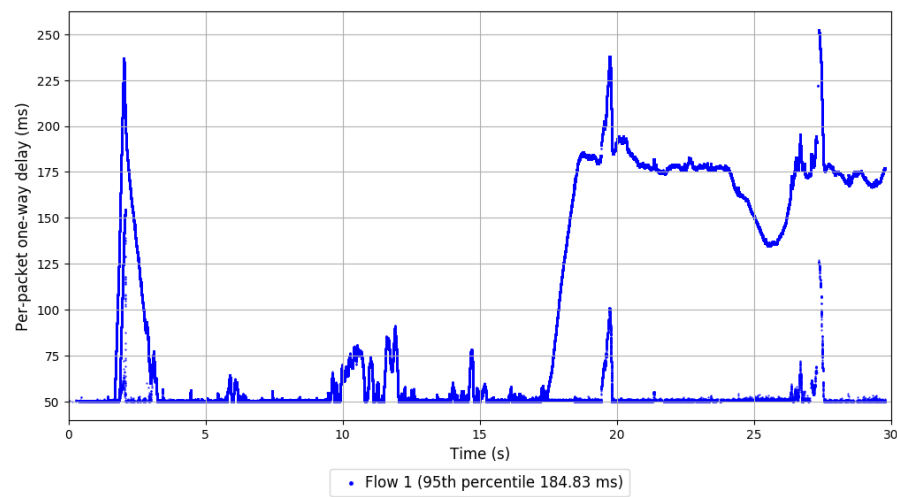
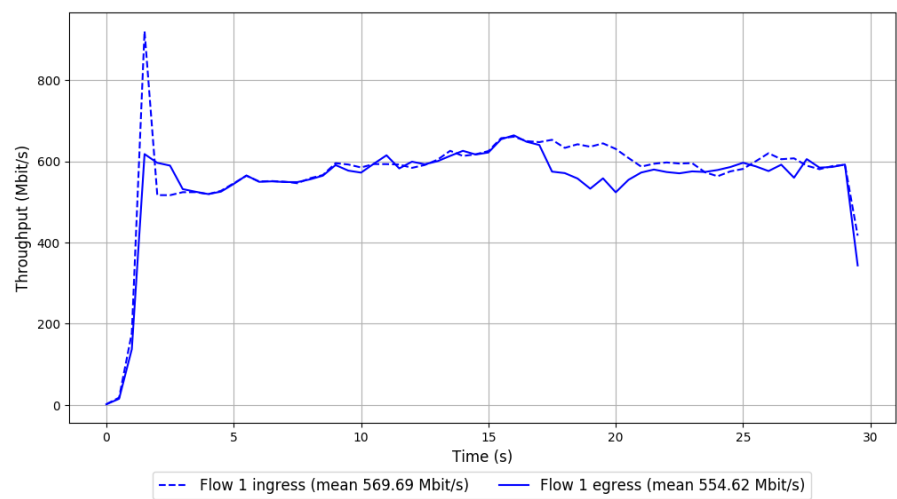


```
Run 1: Statistics of PCC

Start at: 2018-01-16 14:36:57
End at: 2018-01-16 14:37:27

# Below is generated by plot.py at 2018-01-16 19:45:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.62 Mbit/s
95th percentile per-packet one-way delay: 184.833 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 554.62 Mbit/s
95th percentile per-packet one-way delay: 184.833 ms
Loss rate: 2.98%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 14:51:46

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

Below is generated by plot.py at 2018-01-16 19:45:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.33 Mbit/s

95th percentile per-packet one-way delay: 200.204 ms

Loss rate: 3.23%

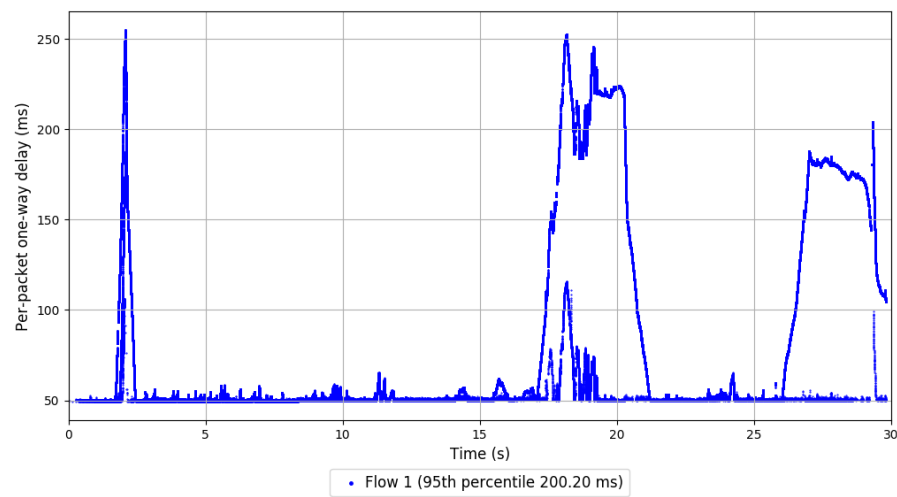
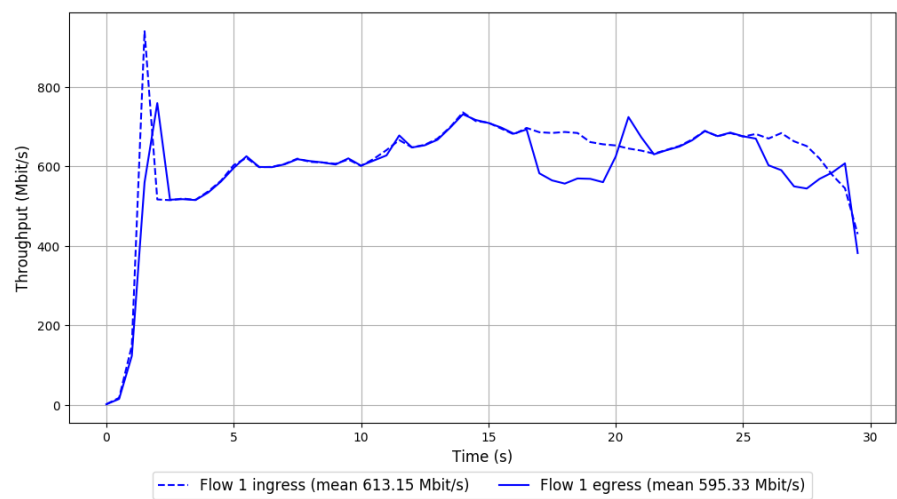
-- Flow 1:

Average throughput: 595.33 Mbit/s

95th percentile per-packet one-way delay: 200.204 ms

Loss rate: 3.23%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

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

End at: 2018-01-16 15:06:47

Below is generated by plot.py at 2018-01-16 19:45:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.90 Mbit/s

95th percentile per-packet one-way delay: 200.633 ms

Loss rate: 1.53%

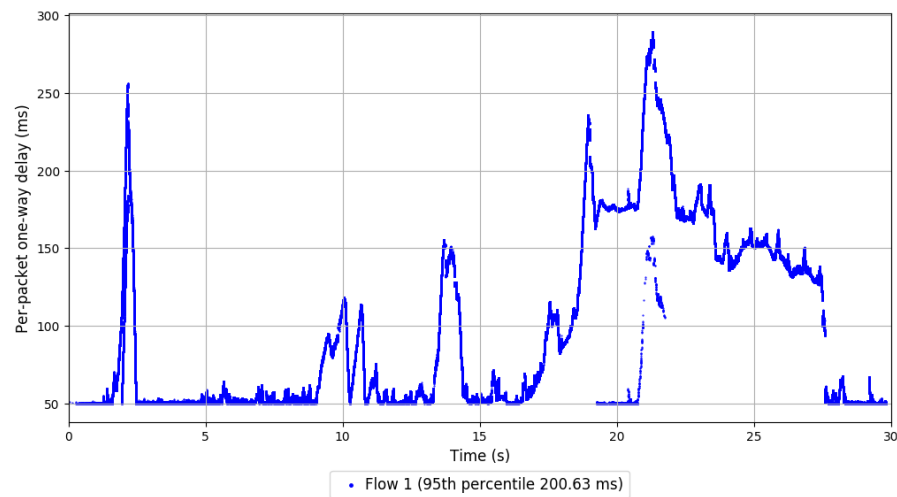
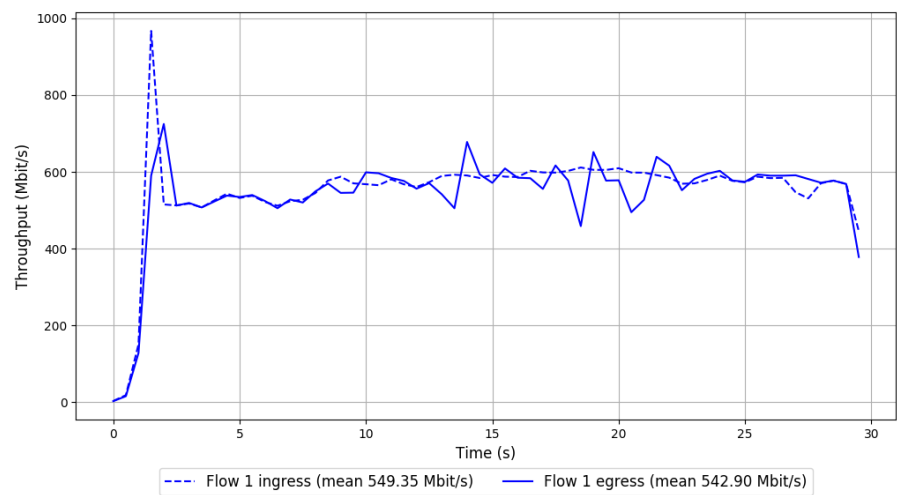
-- Flow 1:

Average throughput: 542.90 Mbit/s

95th percentile per-packet one-way delay: 200.633 ms

Loss rate: 1.53%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 15:20:51

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

Below is generated by plot.py at 2018-01-16 19:46:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 606.47 Mbit/s

95th percentile per-packet one-way delay: 117.889 ms

Loss rate: 1.60%

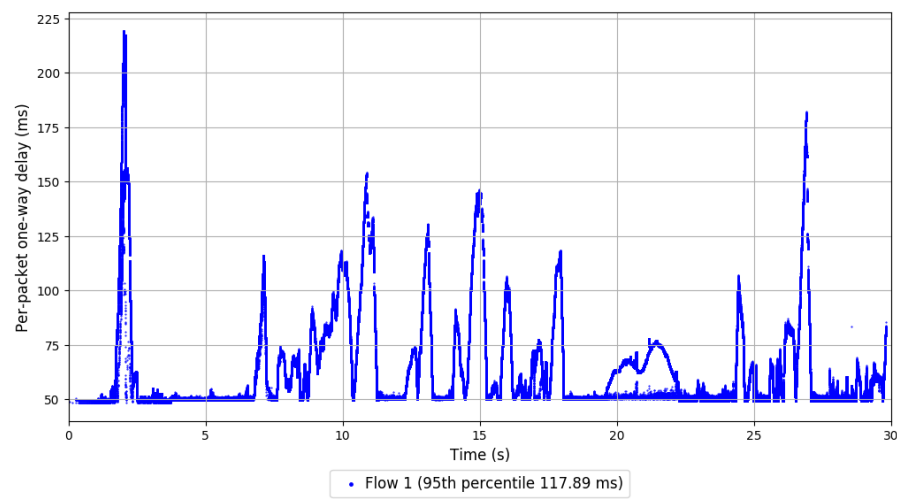
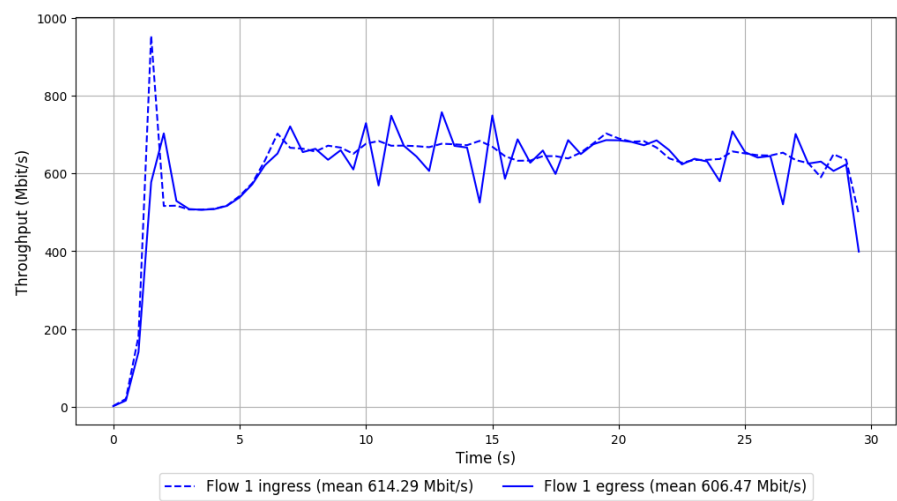
-- Flow 1:

Average throughput: 606.47 Mbit/s

95th percentile per-packet one-way delay: 117.889 ms

Loss rate: 1.60%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 15:35:31

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 598.91 Mbit/s

95th percentile per-packet one-way delay: 178.155 ms

Loss rate: 1.40%

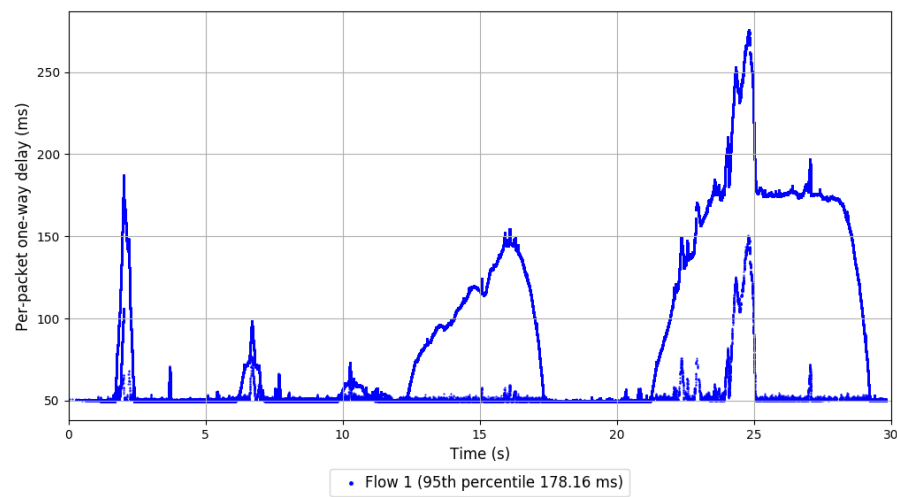
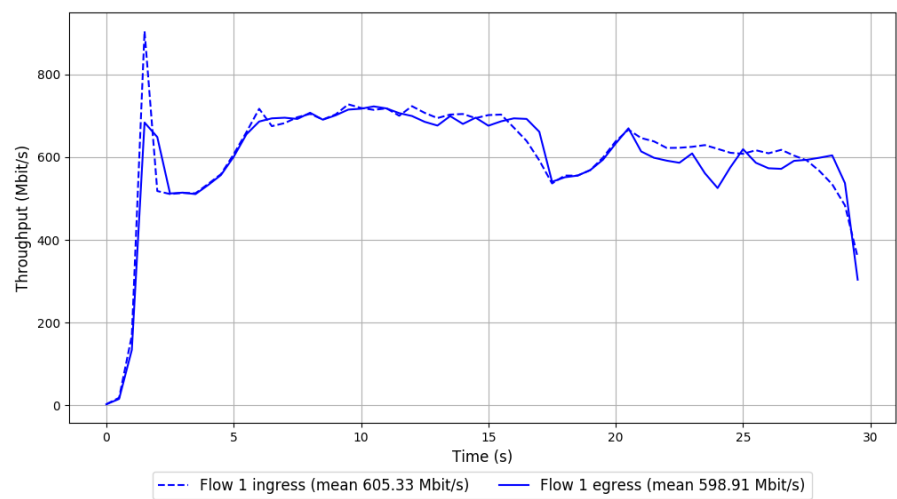
-- Flow 1:

Average throughput: 598.91 Mbit/s

95th percentile per-packet one-way delay: 178.155 ms

Loss rate: 1.40%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 15:49:59

End at: 2018-01-16 15:50:29

Below is generated by plot.py at 2018-01-16 19:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 615.29 Mbit/s

95th percentile per-packet one-way delay: 113.430 ms

Loss rate: 1.40%

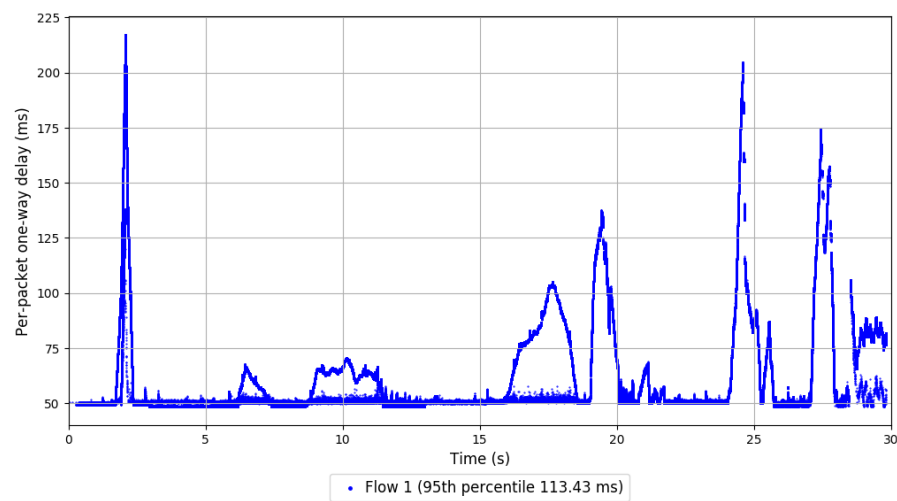
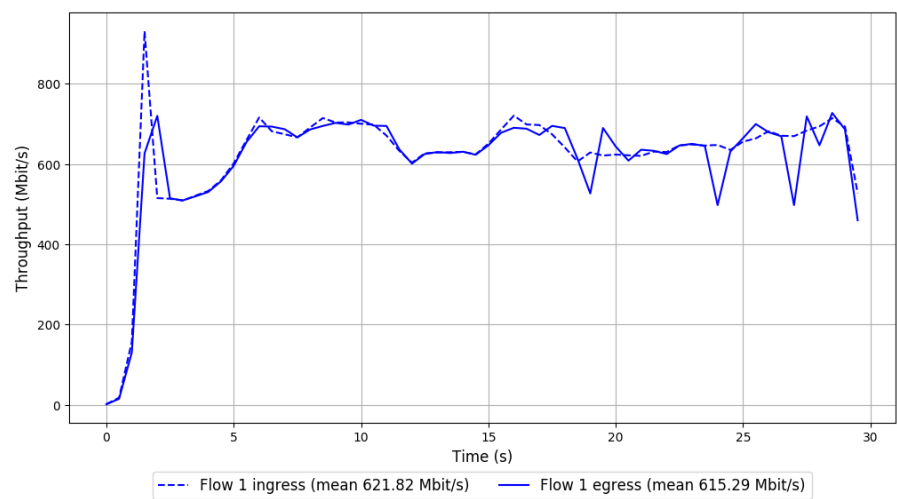
-- Flow 1:

Average throughput: 615.29 Mbit/s

95th percentile per-packet one-way delay: 113.430 ms

Loss rate: 1.40%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 16:04:41

End at: 2018-01-16 16:05:11

Below is generated by plot.py at 2018-01-16 19:46:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.35 Mbit/s

95th percentile per-packet one-way delay: 182.108 ms

Loss rate: 2.98%

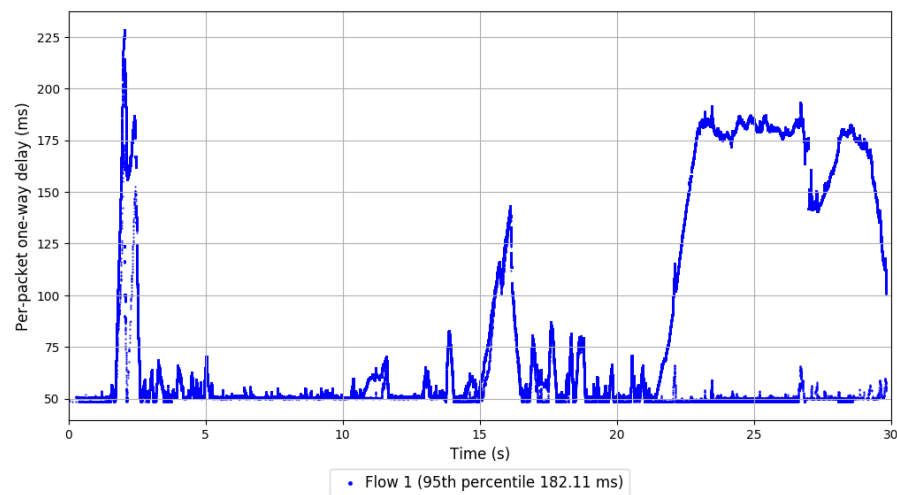
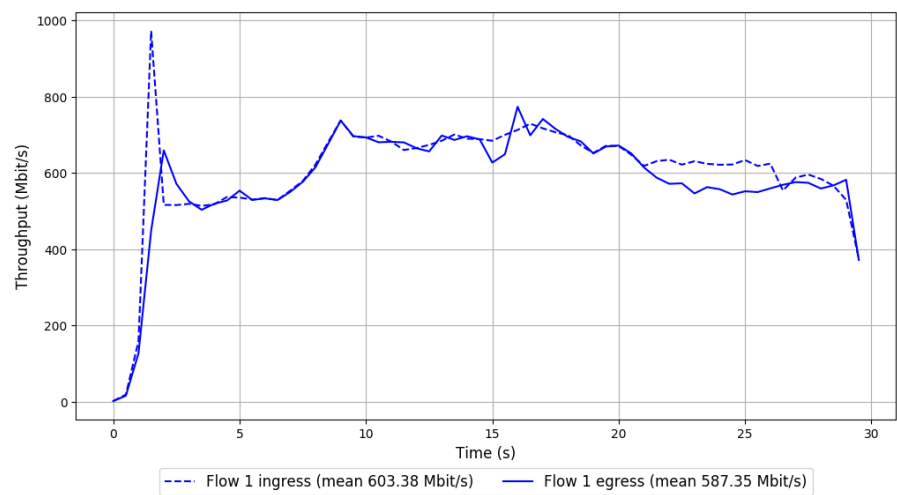
-- Flow 1:

Average throughput: 587.35 Mbit/s

95th percentile per-packet one-way delay: 182.108 ms

Loss rate: 2.98%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-16 16:19:23

End at: 2018-01-16 16:19:53

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.91 Mbit/s

95th percentile per-packet one-way delay: 129.456 ms

Loss rate: 1.24%

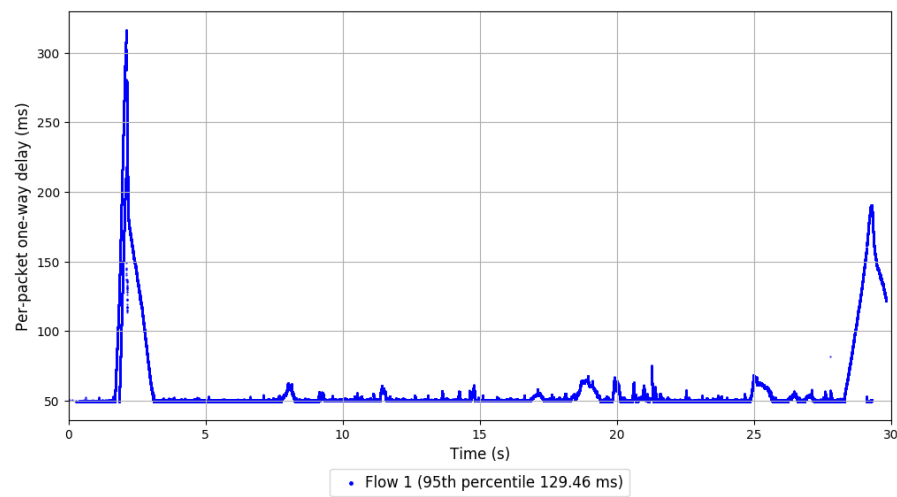
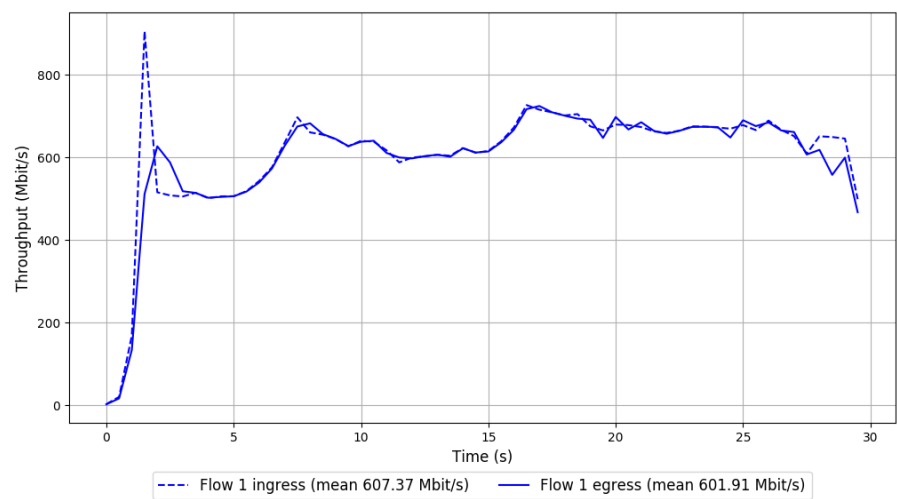
-- Flow 1:

Average throughput: 601.91 Mbit/s

95th percentile per-packet one-way delay: 129.456 ms

Loss rate: 1.24%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-16 16:34:10

End at: 2018-01-16 16:34:40

Below is generated by plot.py at 2018-01-16 19:55:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.03 Mbit/s

95th percentile per-packet one-way delay: 185.020 ms

Loss rate: 3.25%

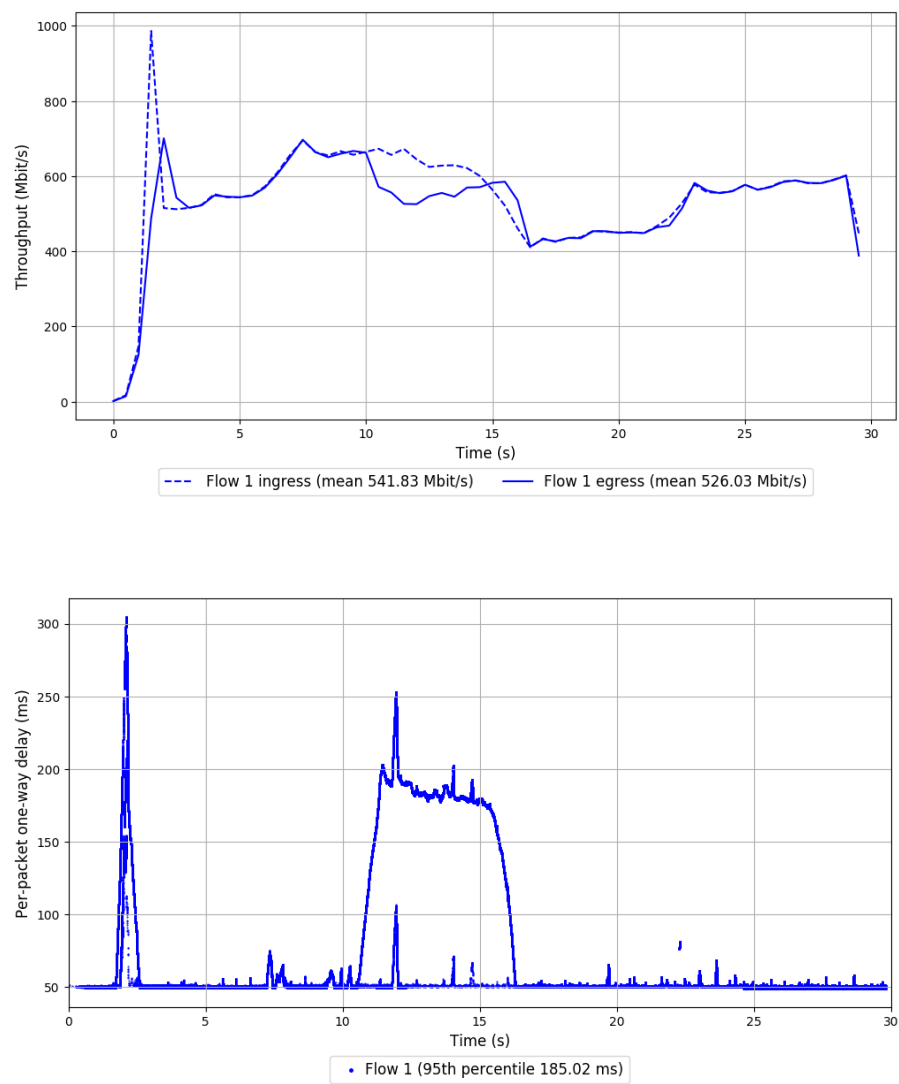
-- Flow 1:

Average throughput: 526.03 Mbit/s

95th percentile per-packet one-way delay: 185.020 ms

Loss rate: 3.25%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 16:49:08

End at: 2018-01-16 16:49:38

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 643.09 Mbit/s

95th percentile per-packet one-way delay: 158.617 ms

Loss rate: 1.09%

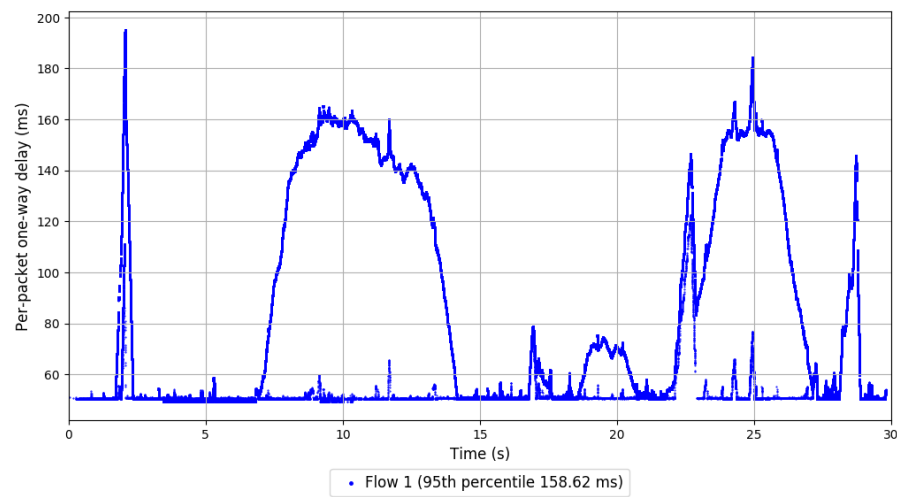
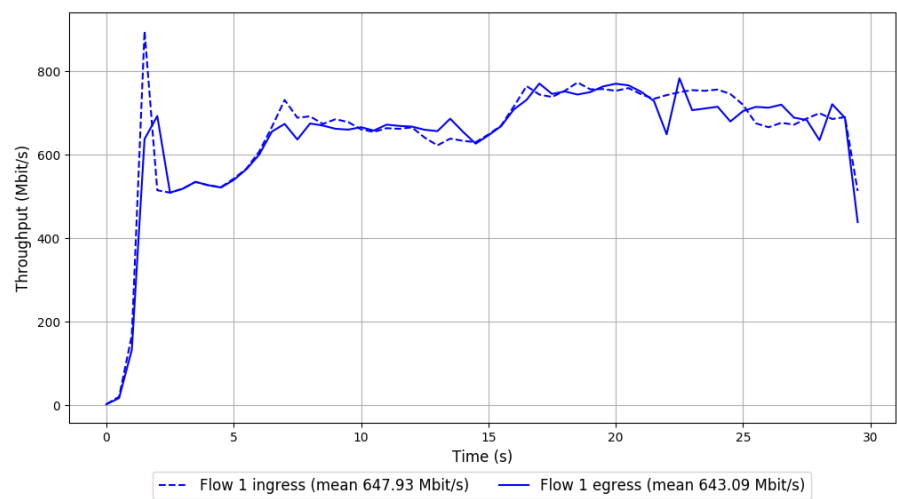
-- Flow 1:

Average throughput: 643.09 Mbit/s

95th percentile per-packet one-way delay: 158.617 ms

Loss rate: 1.09%

Run 10: Report of PCC — Data Link

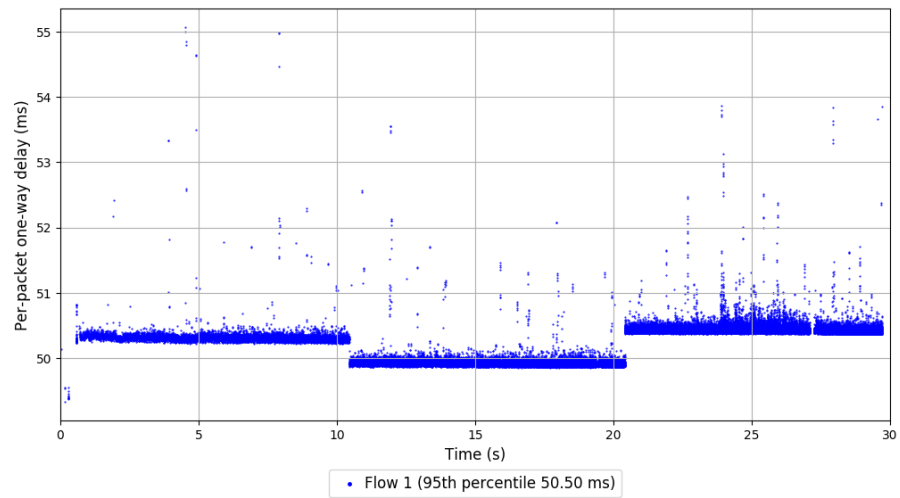
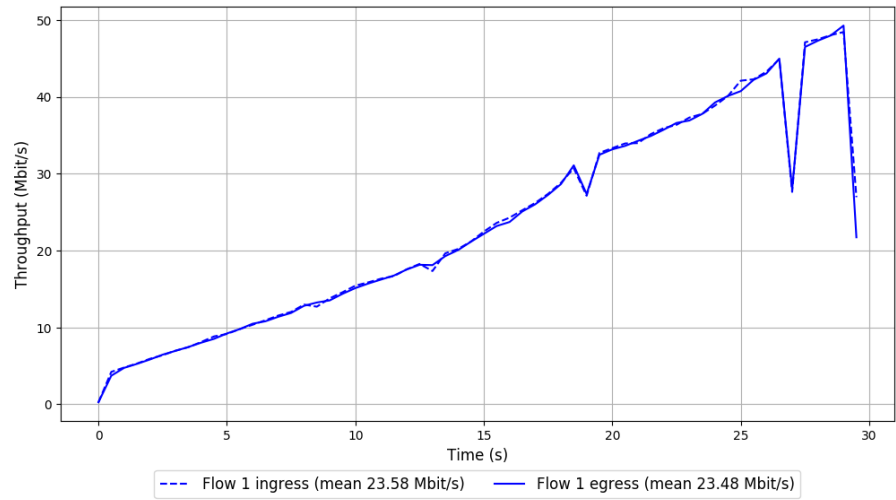


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 14:32:04
End at: 2018-01-16 14:32:34

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.72%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 14:46:53

End at: 2018-01-16 14:47:23

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 49.991 ms

Loss rate: 0.55%

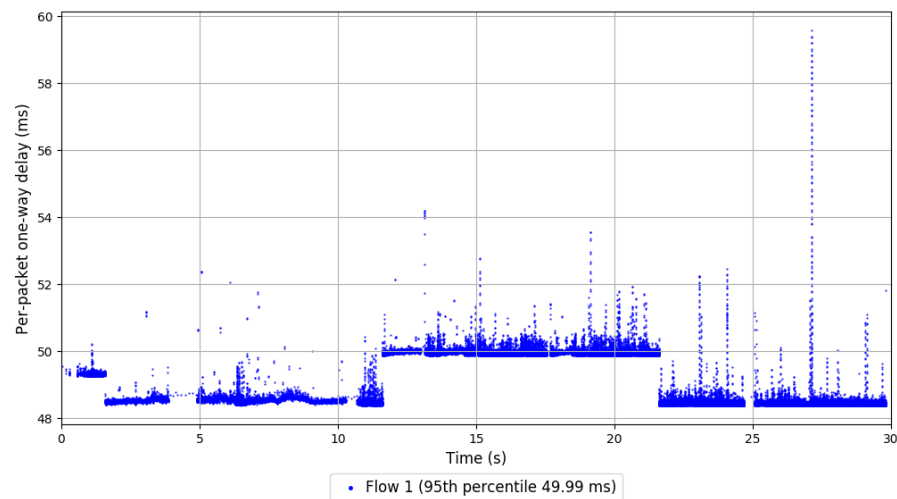
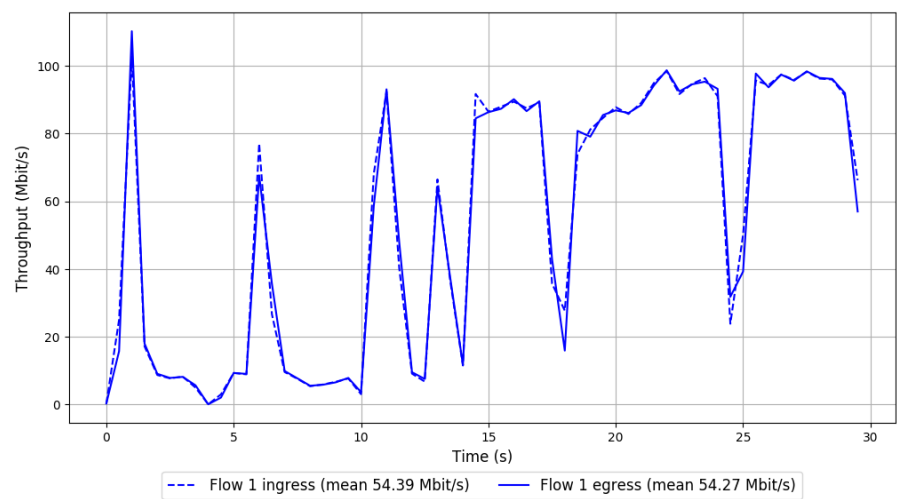
-- Flow 1:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 49.991 ms

Loss rate: 0.55%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

End at: 2018-01-16 15:02:10

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 50.591 ms

Loss rate: 0.61%

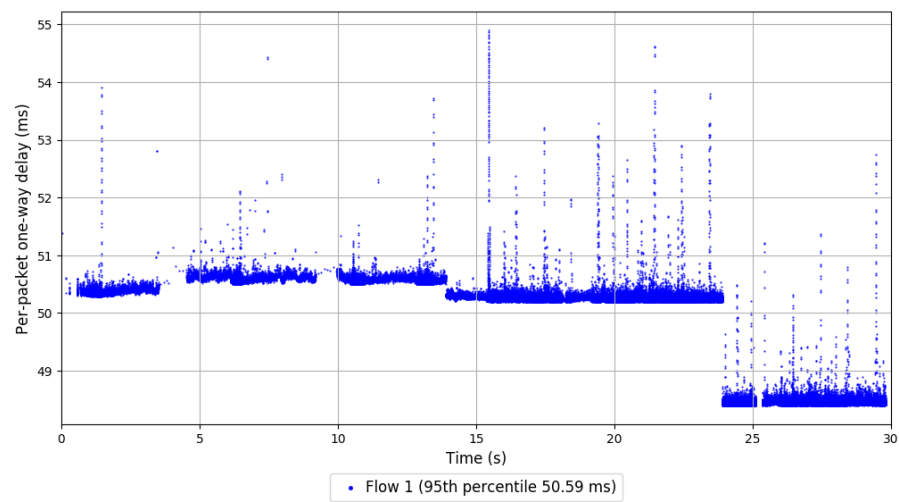
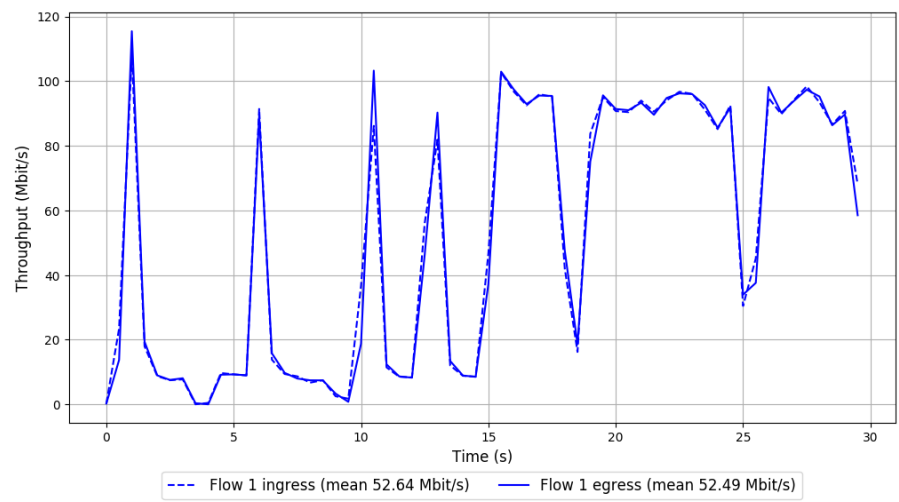
-- Flow 1:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 50.591 ms

Loss rate: 0.61%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 49.930 ms

Loss rate: 0.43%

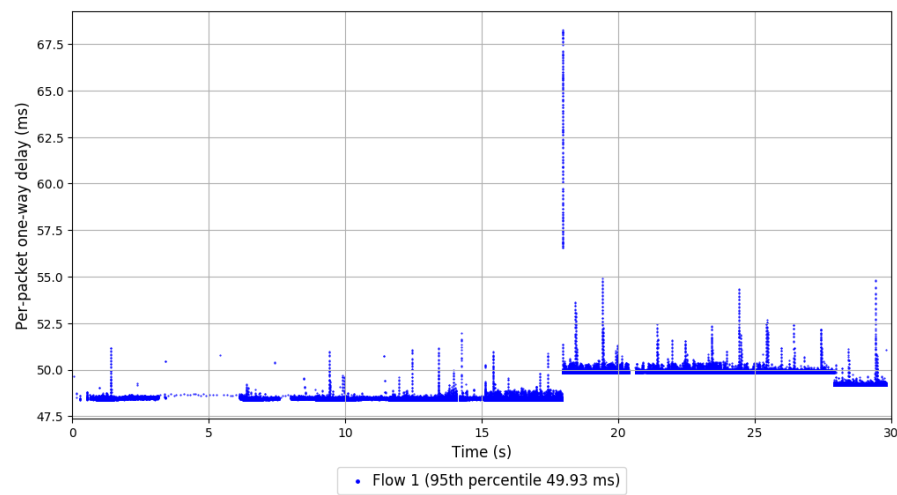
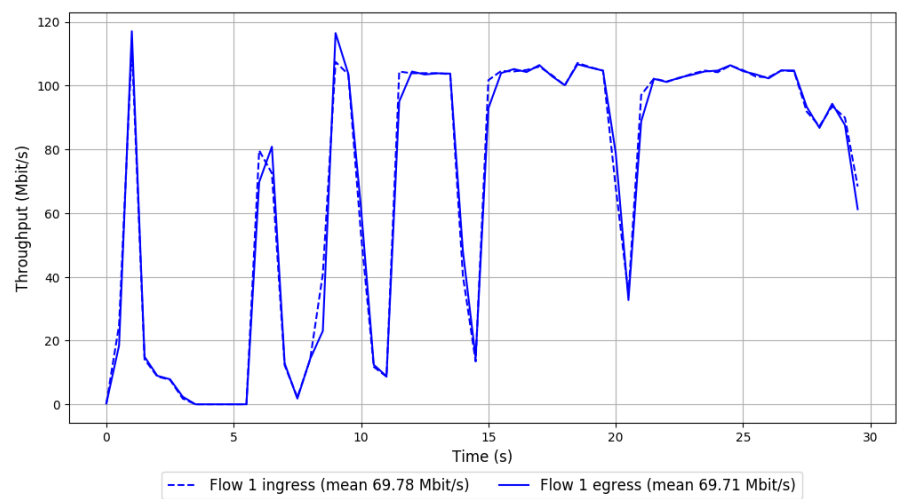
-- Flow 1:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 49.930 ms

Loss rate: 0.43%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 15:30:46

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 50.212 ms

Loss rate: 0.64%

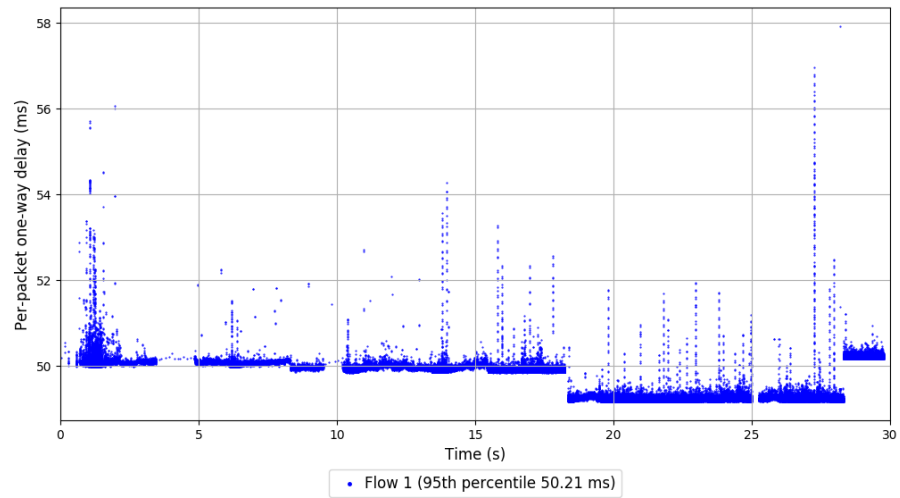
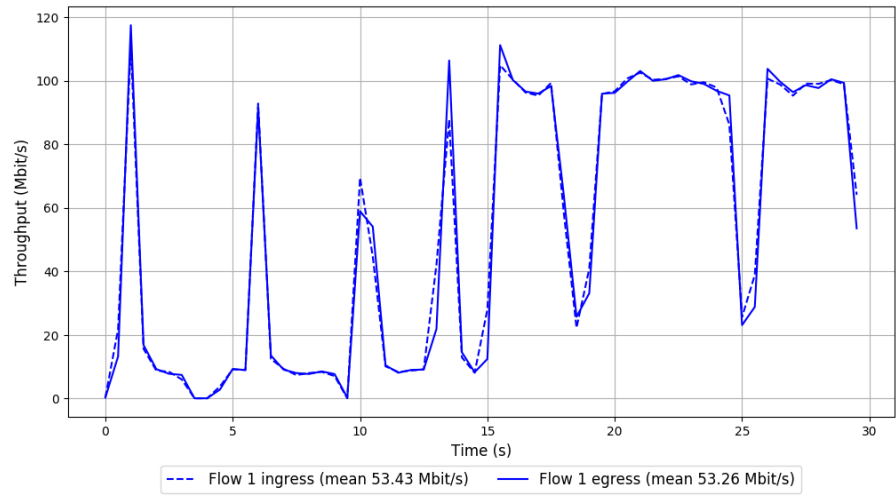
-- Flow 1:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 50.212 ms

Loss rate: 0.64%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 15:45:34

End at: 2018-01-16 15:46:04

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 50.592 ms

Loss rate: 0.43%

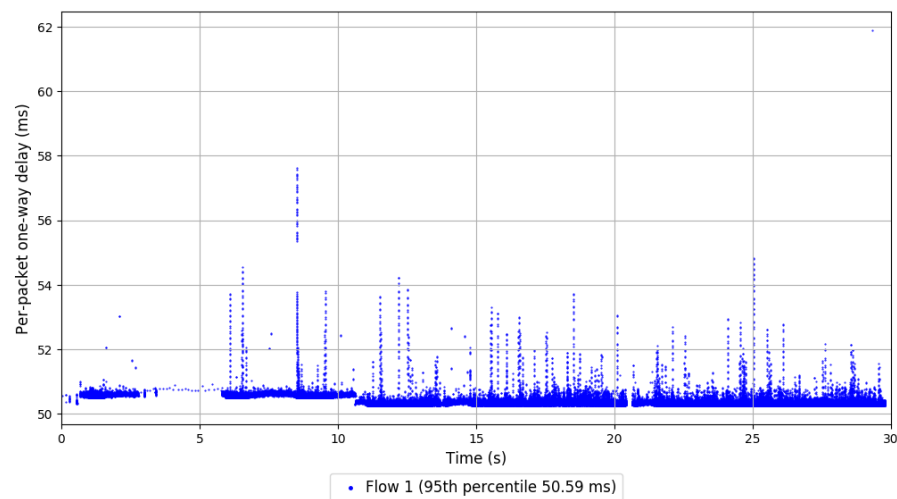
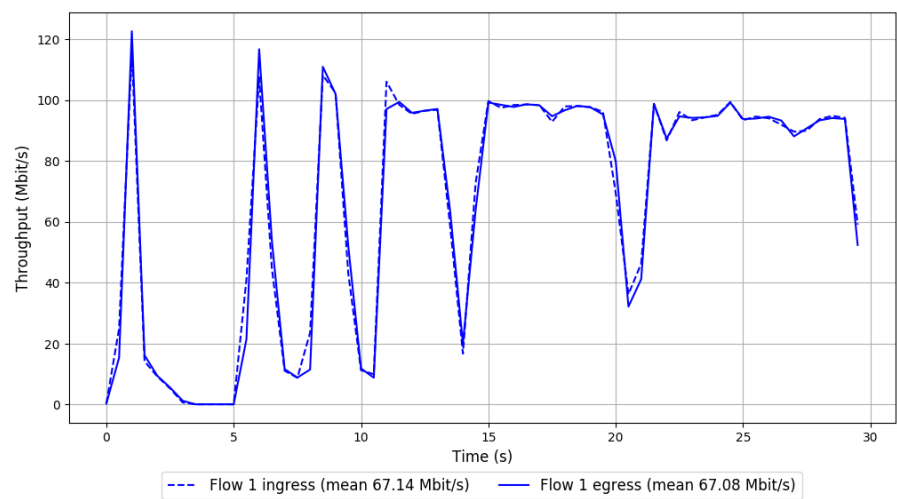
-- Flow 1:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 50.592 ms

Loss rate: 0.43%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 16:00:05

End at: 2018-01-16 16:00:35

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 50.453 ms

Loss rate: 0.50%

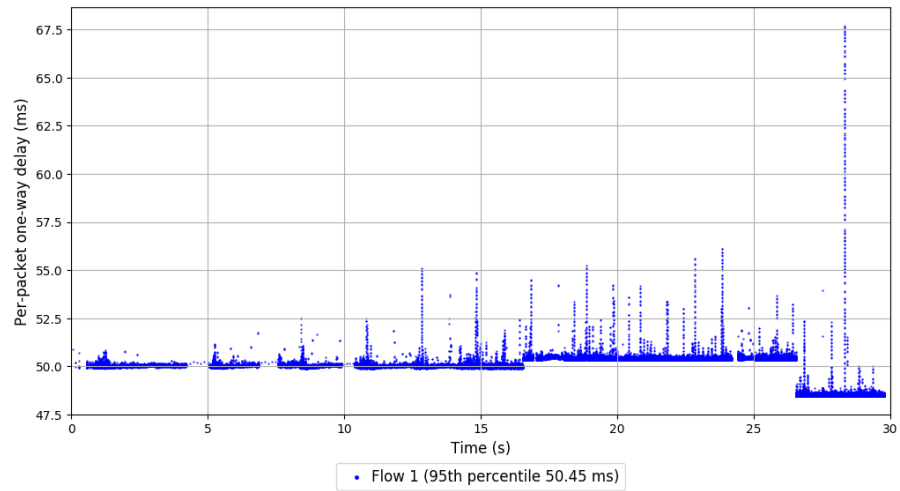
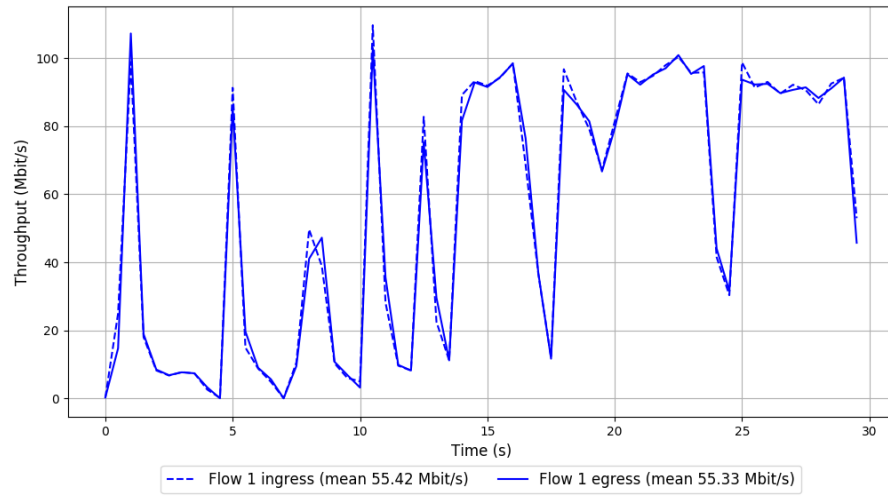
-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 50.453 ms

Loss rate: 0.50%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 16:14:45

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 50.528 ms

Loss rate: 0.25%

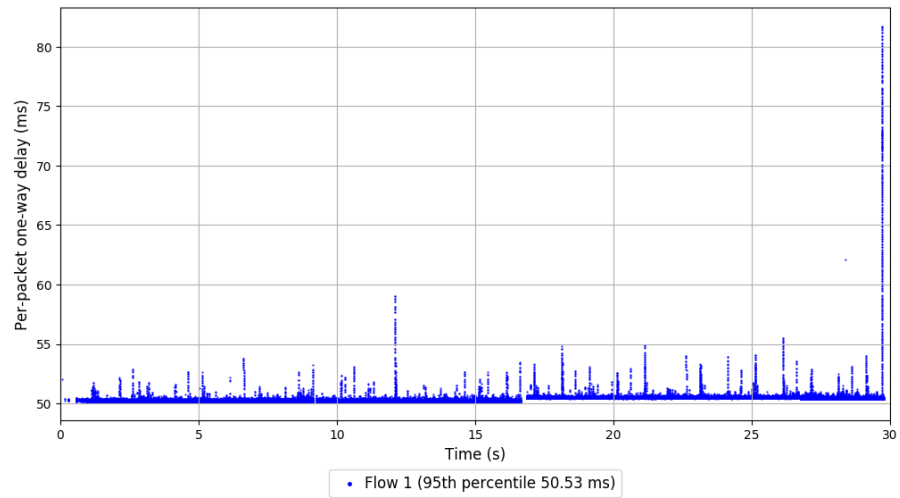
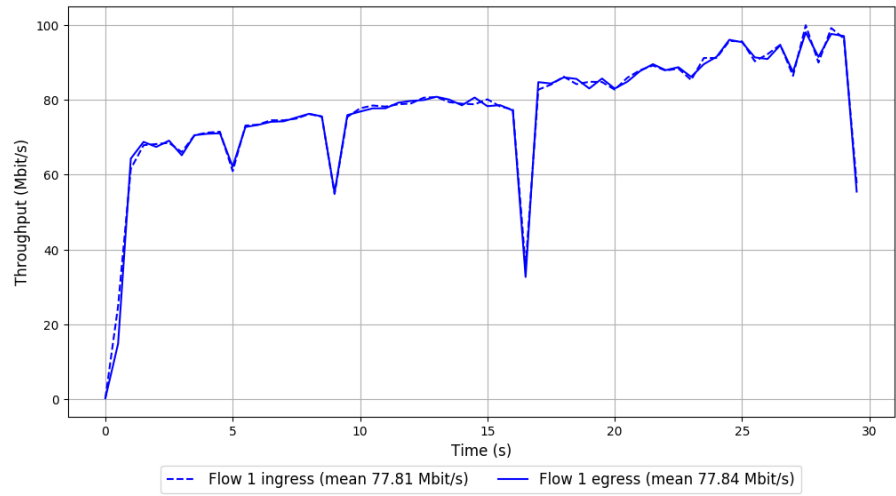
-- Flow 1:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 50.528 ms

Loss rate: 0.25%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 16:29:37

End at: 2018-01-16 16:30:07

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 50.734 ms

Loss rate: 0.41%

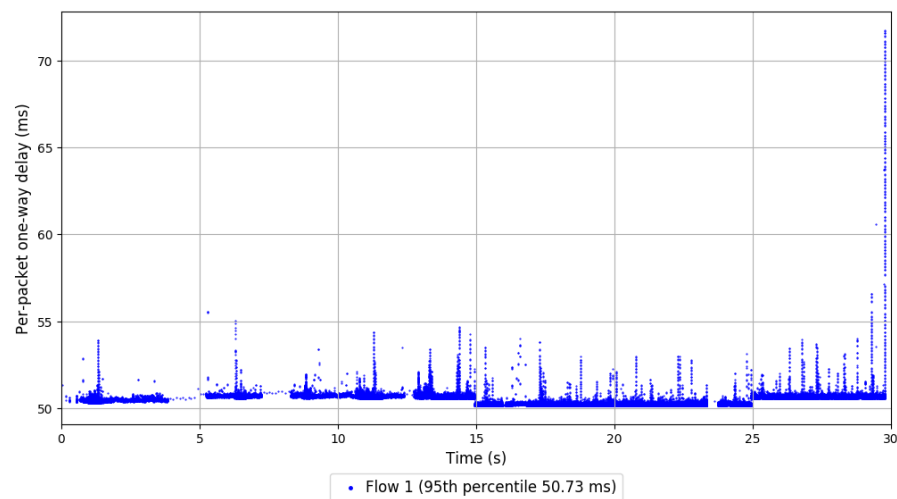
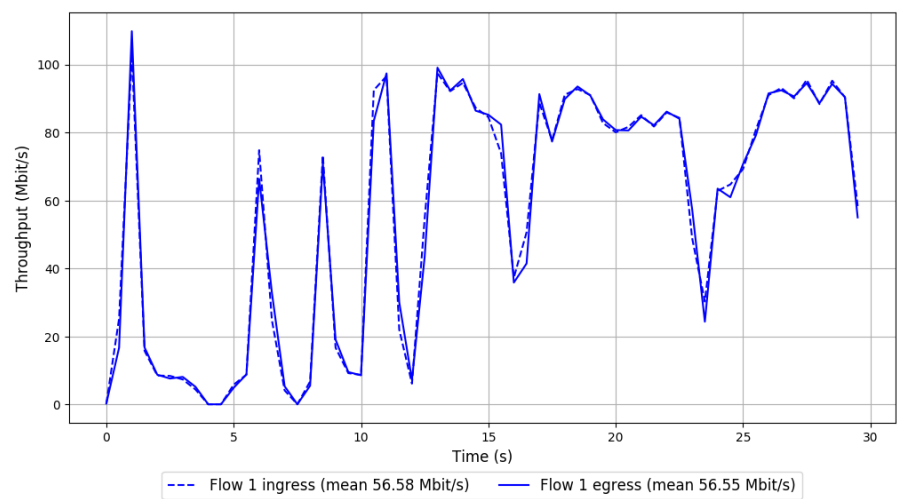
-- Flow 1:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 50.734 ms

Loss rate: 0.41%

Run 9: Report of QUIC Cubic — Data Link

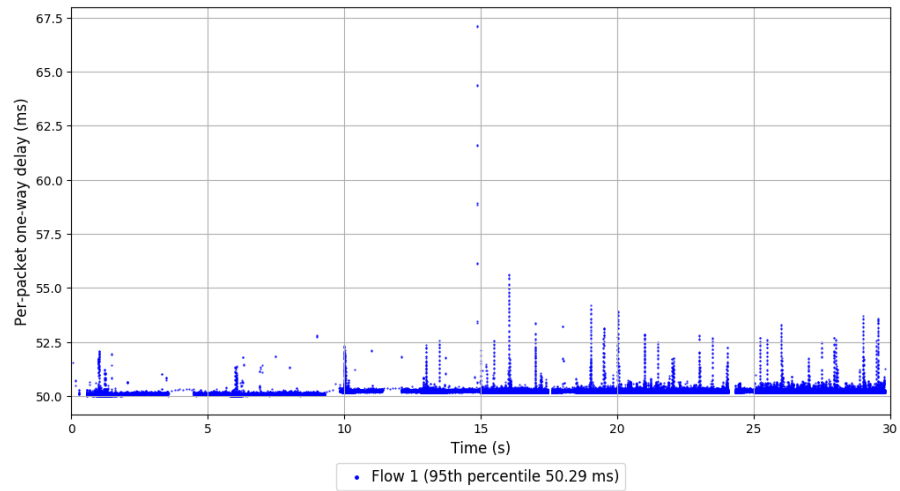
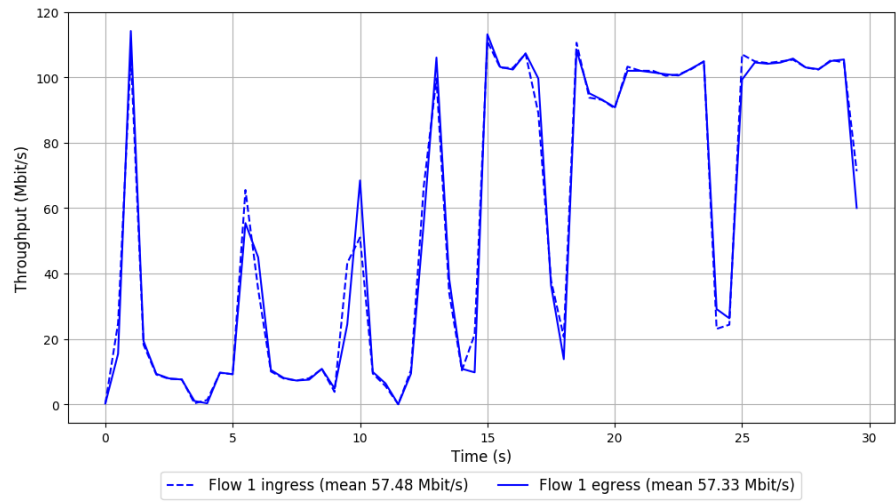


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 16:44:12
End at: 2018-01-16 16:44:42

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 50.294 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 50.294 ms
Loss rate: 0.61%
```

Run 10: Report of QUIC Cubic — Data Link

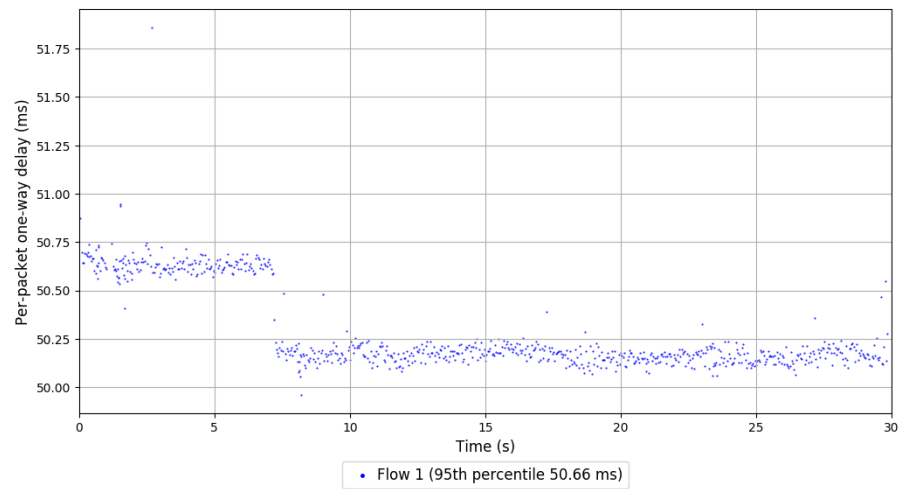
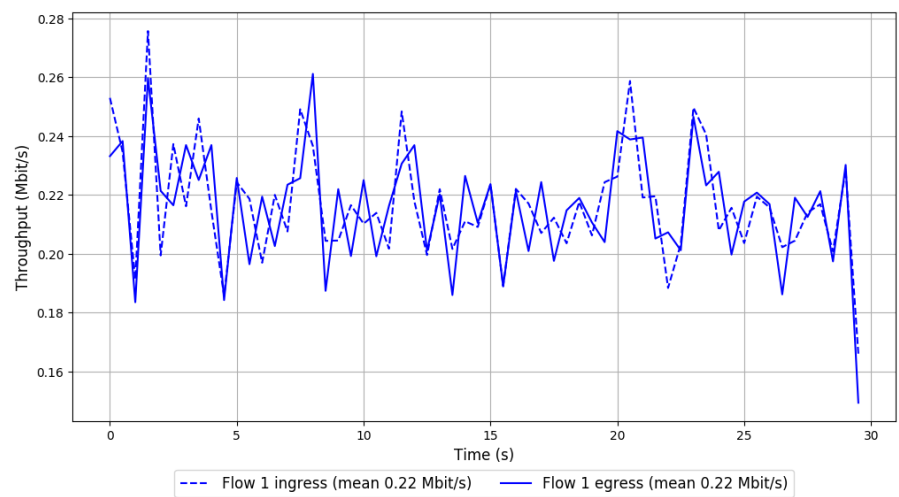


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 14:35:17
End at: 2018-01-16 14:35:47

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.665 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.665 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link

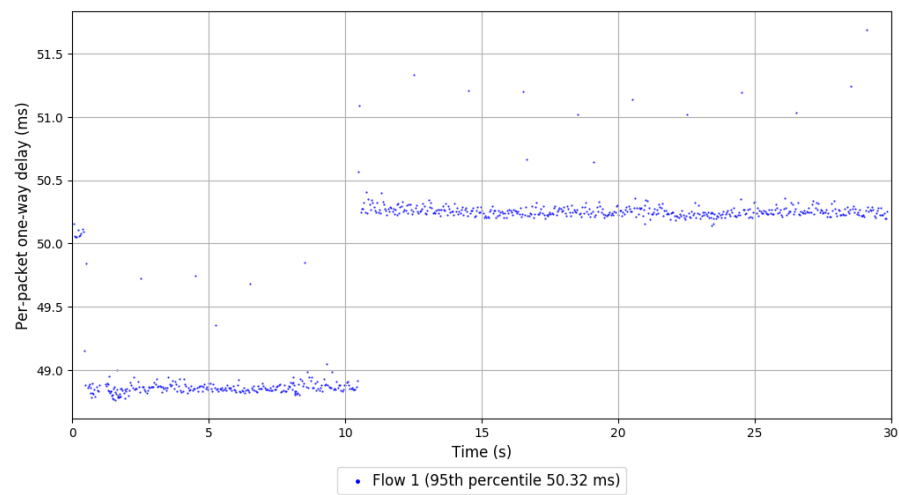
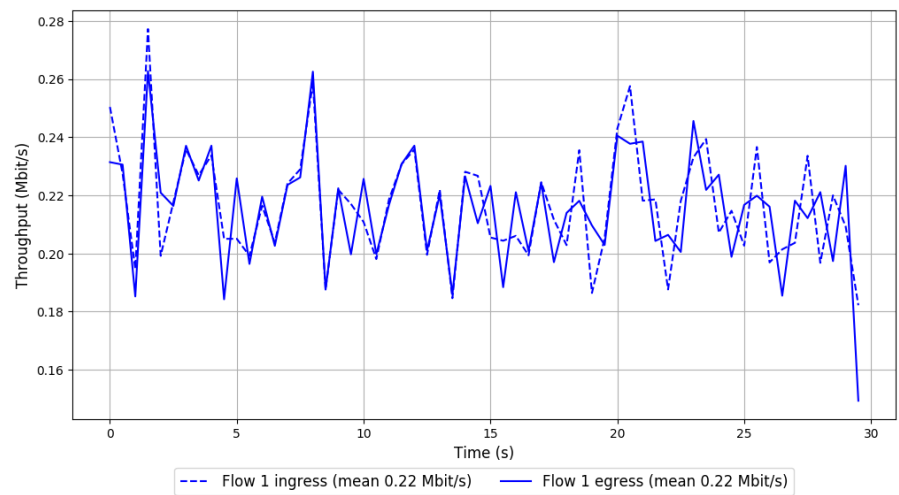


```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 14:50:04
End at: 2018-01-16 14:50:34

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.321 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.321 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

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

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.188 ms

Loss rate: 0.38%

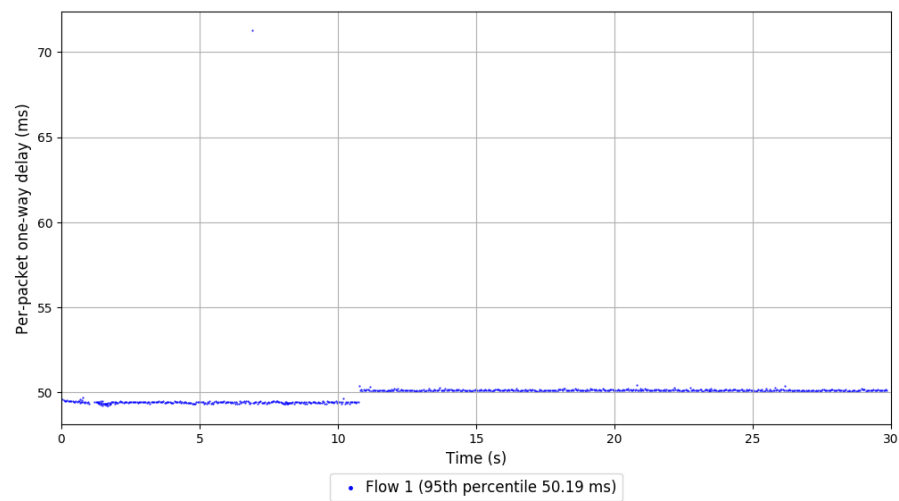
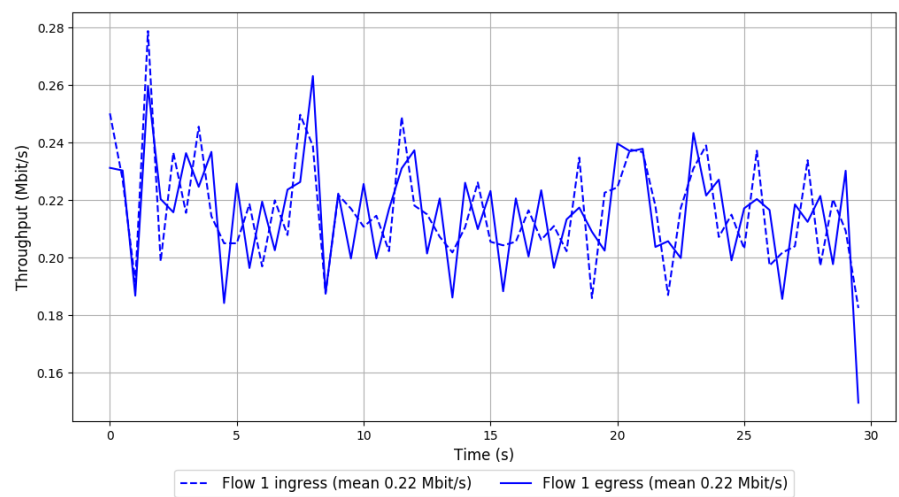
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.188 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-16 15:19:29

End at: 2018-01-16 15:19:59

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.595 ms

Loss rate: 0.38%

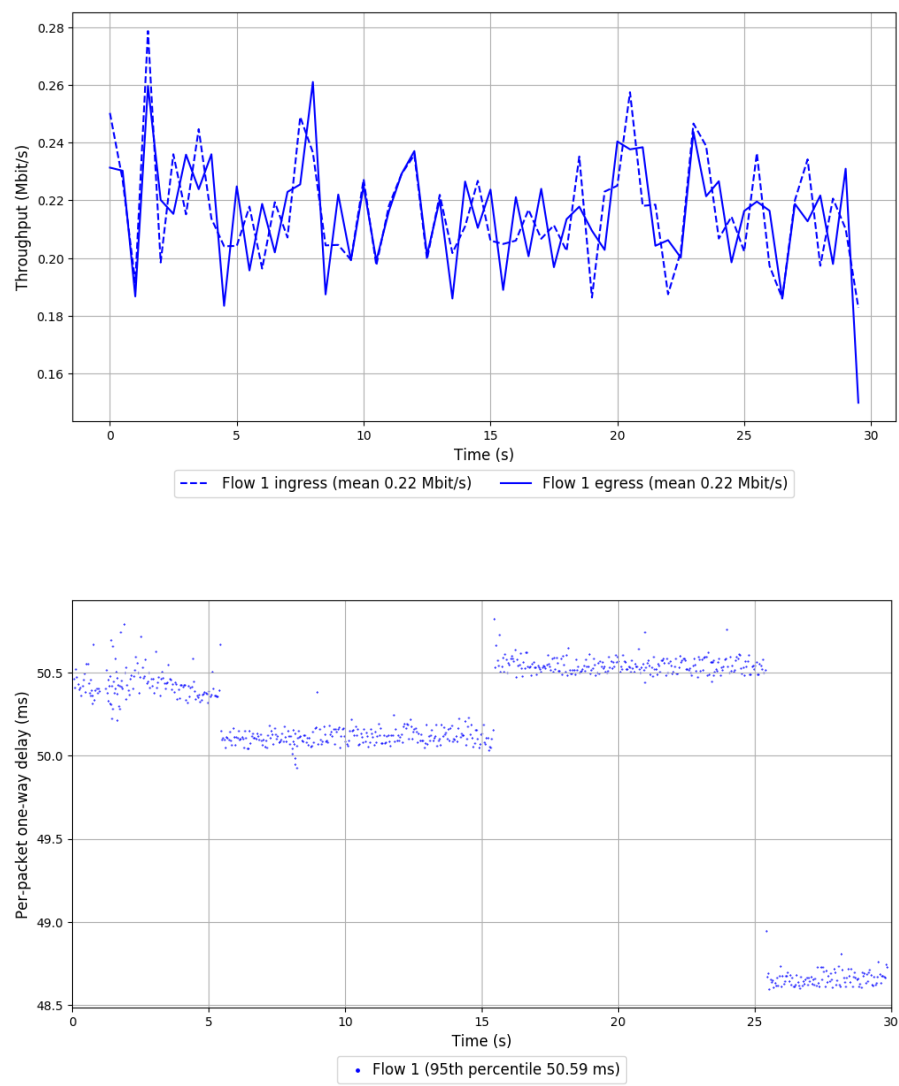
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.595 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

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

End at: 2018-01-16 15:34:31

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.689 ms

Loss rate: 0.38%

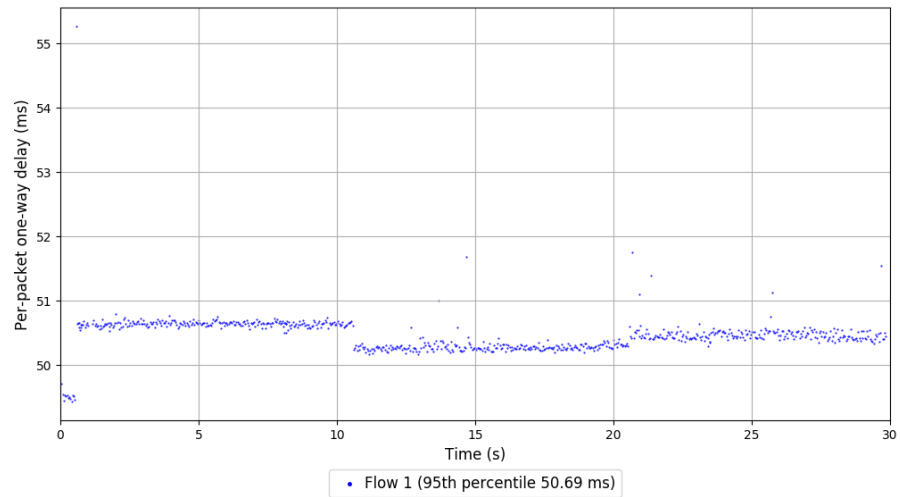
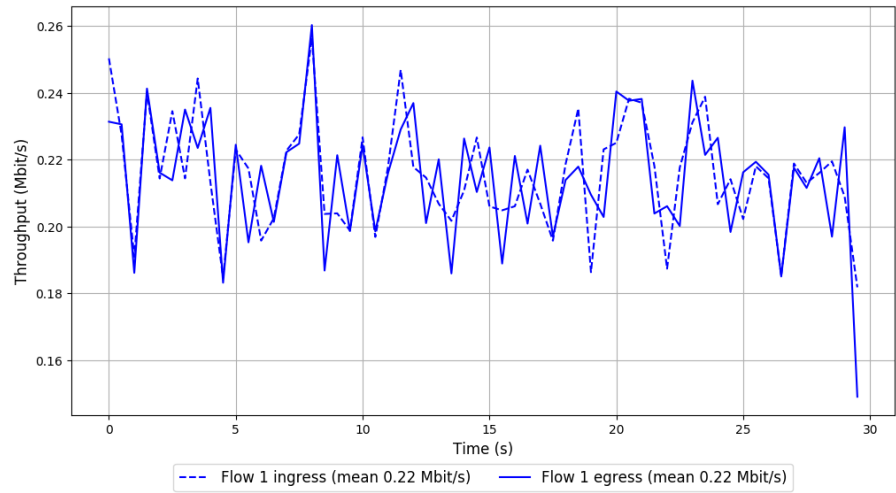
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.689 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-16 15:48:44

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.574 ms

Loss rate: 0.38%

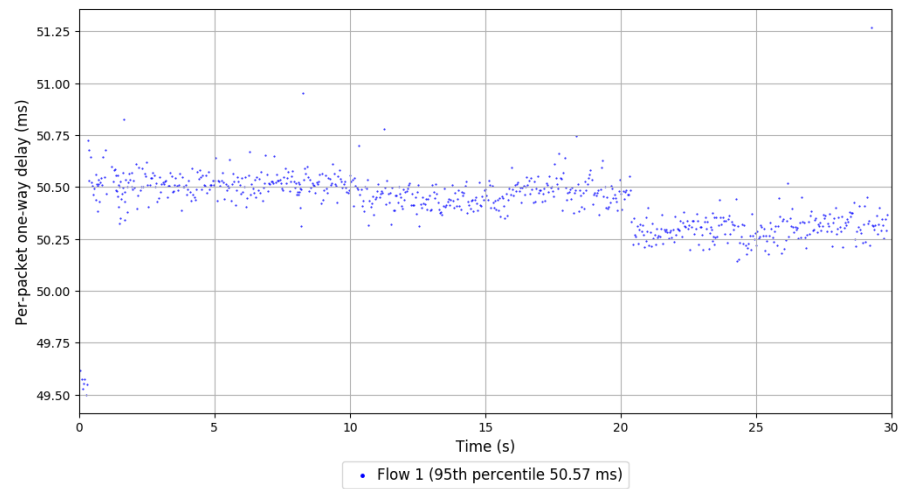
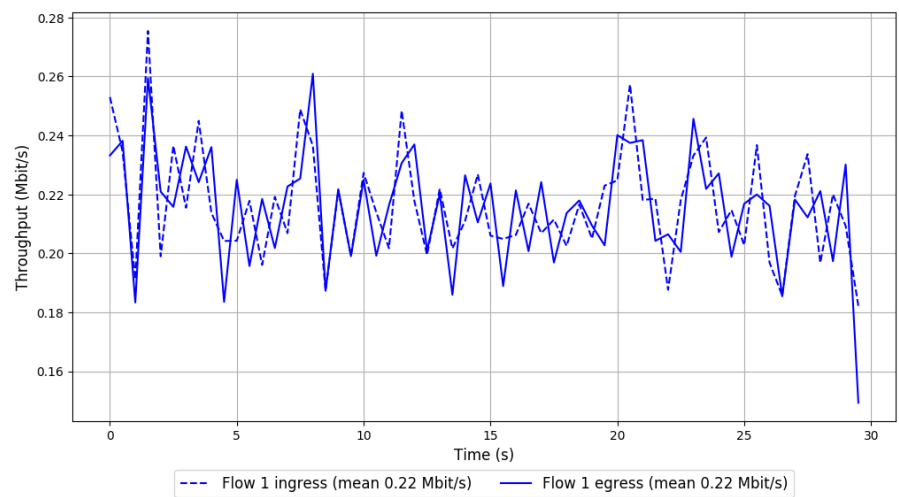
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.574 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-16 16:03:26

End at: 2018-01-16 16:03:56

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.38%

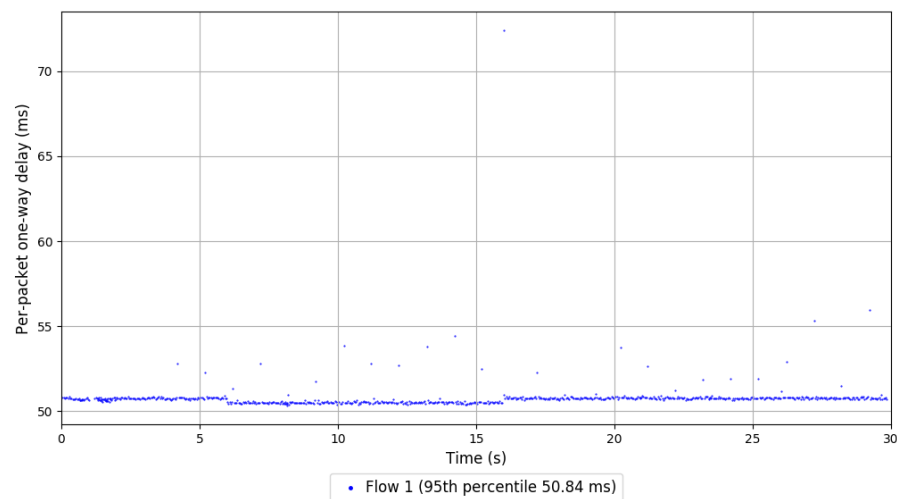
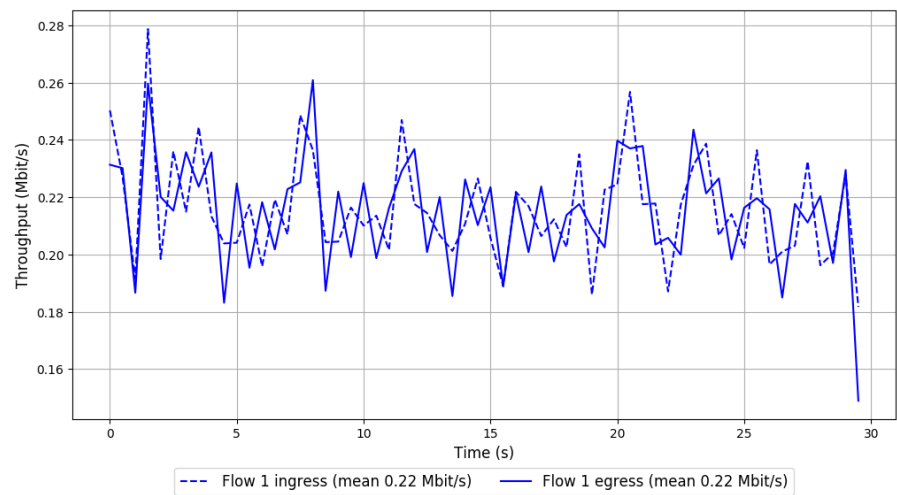
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-16 16:18:07

End at: 2018-01-16 16:18:37

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.694 ms

Loss rate: 0.38%

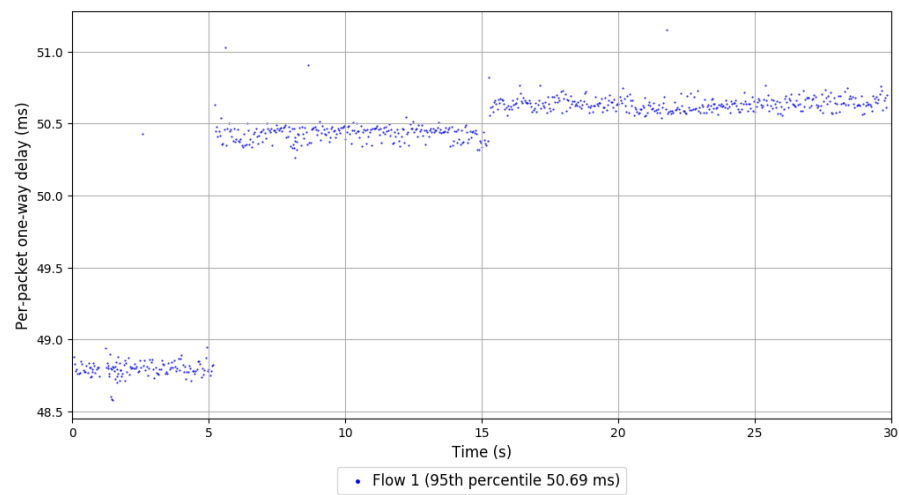
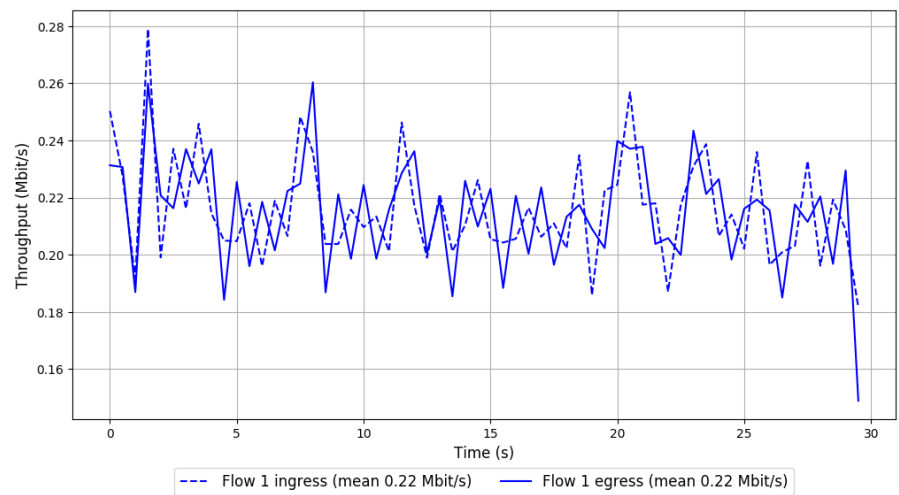
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.694 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-16 16:32:55

End at: 2018-01-16 16:33:25

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.481 ms

Loss rate: 0.26%

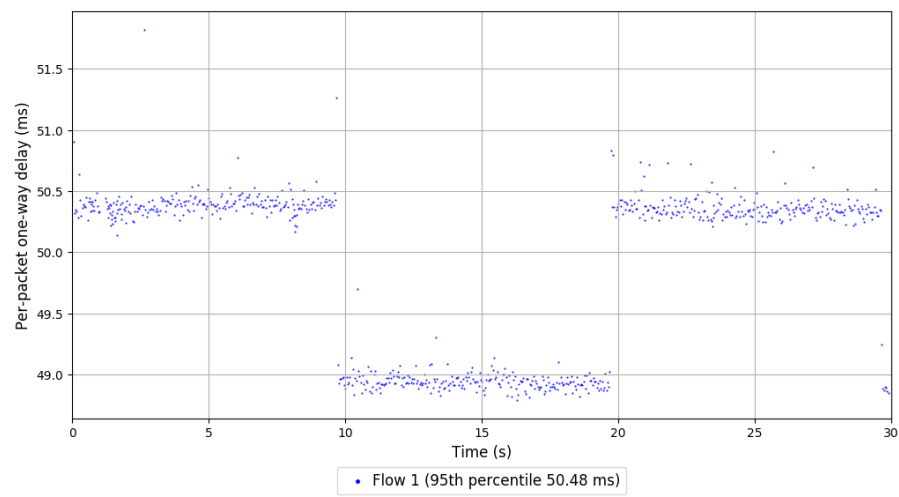
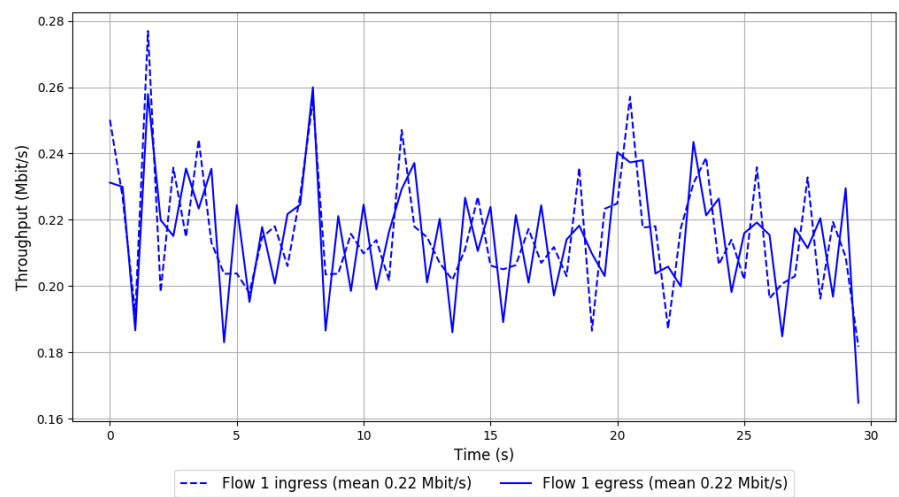
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.481 ms

Loss rate: 0.26%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-16 16:47:33

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.38%

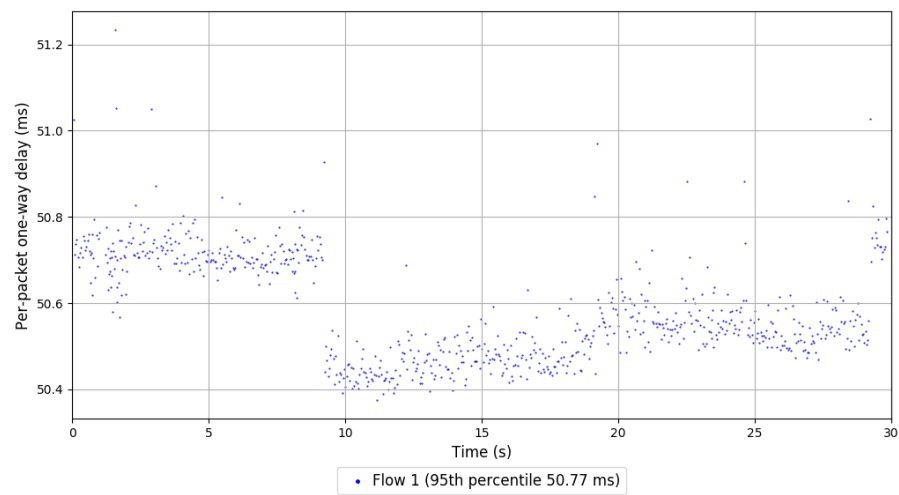
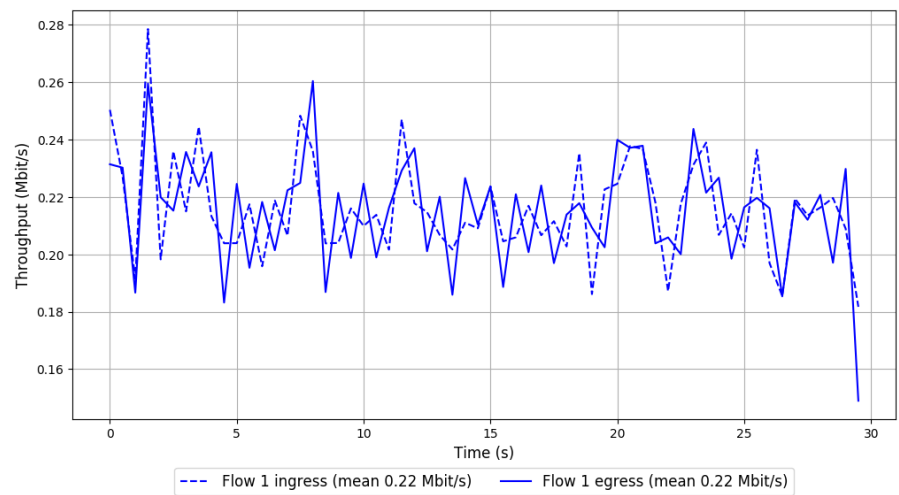
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

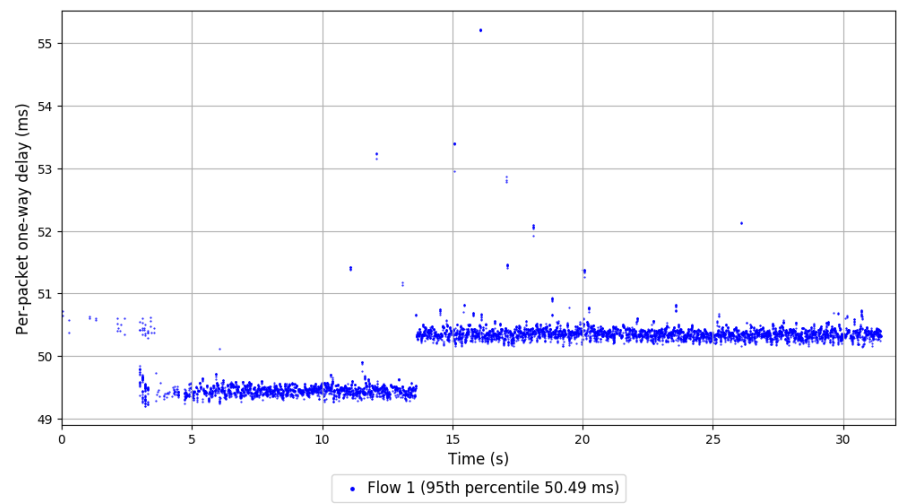
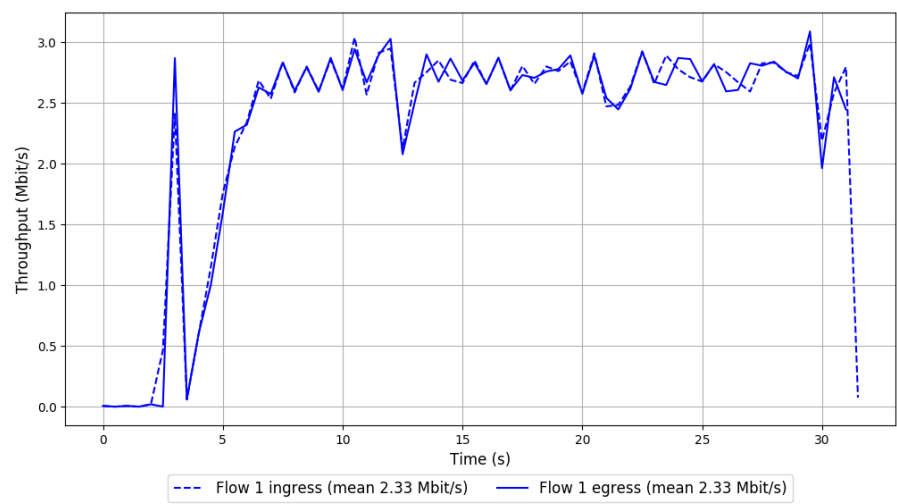


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 14:32:42
End at: 2018-01-16 14:33:12

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 50.490 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 50.490 ms
Loss rate: 0.45%
```


Run 1: Report of WebRTC media — Data Link

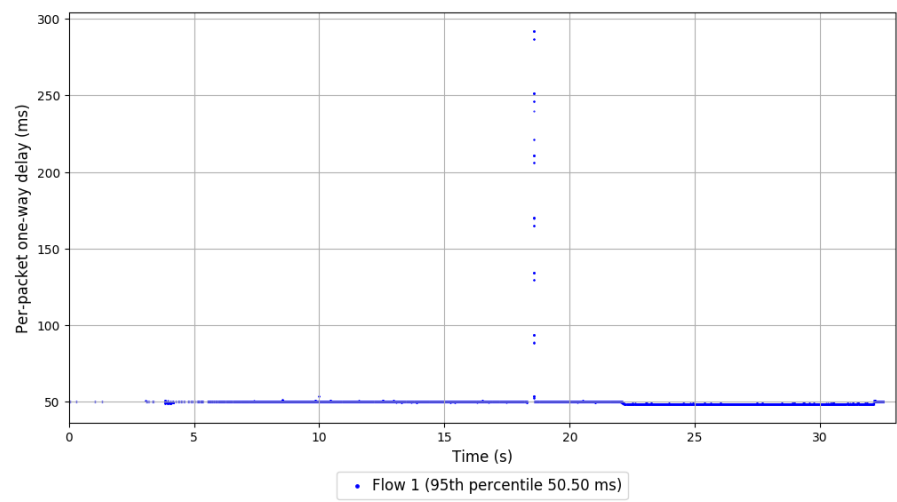
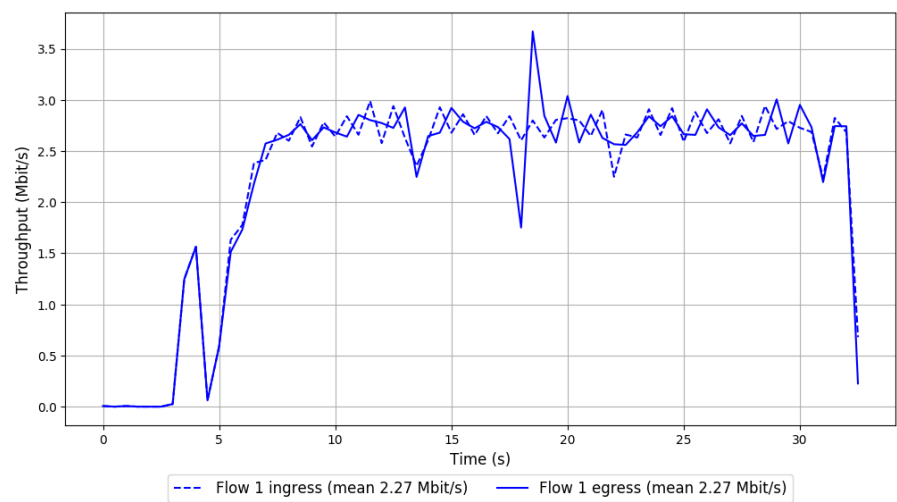


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-16 14:47:33
End at: 2018-01-16 14:48:03

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.503 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.503 ms
Loss rate: 0.46%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 15:02:20

End at: 2018-01-16 15:02:50

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.36%

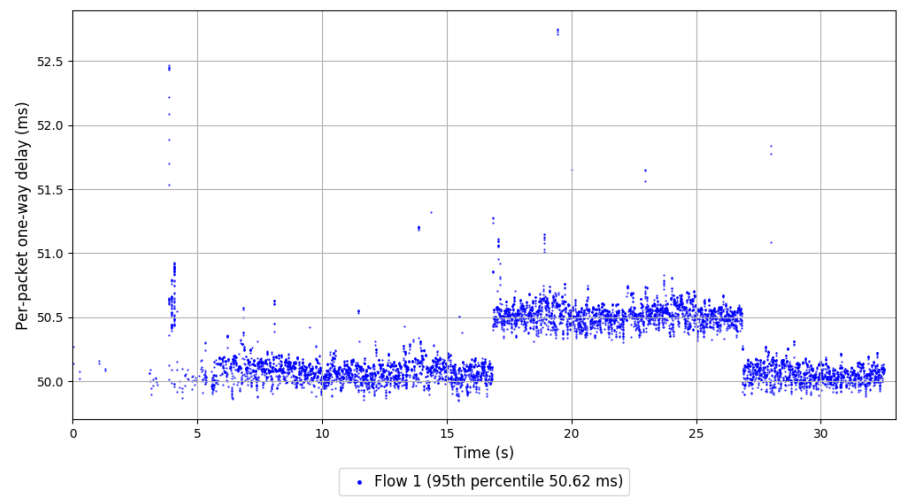
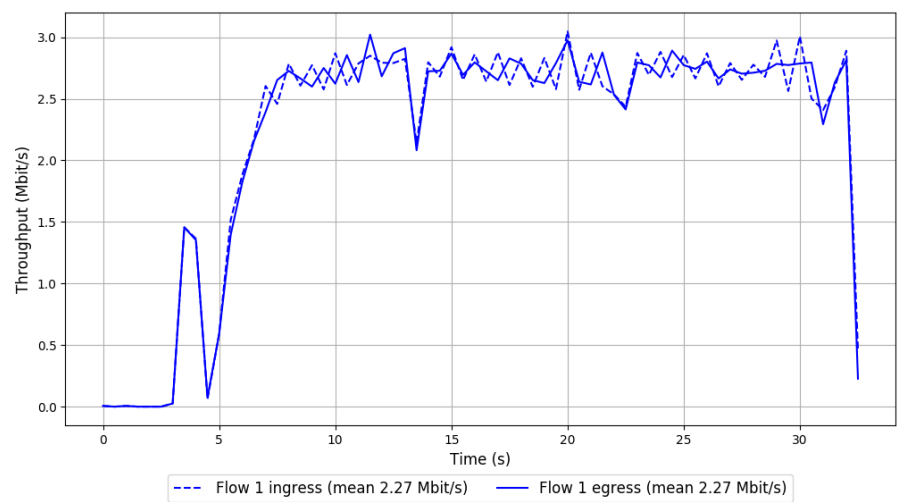
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.36%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

End at: 2018-01-16 15:17:27

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.502 ms

Loss rate: 0.45%

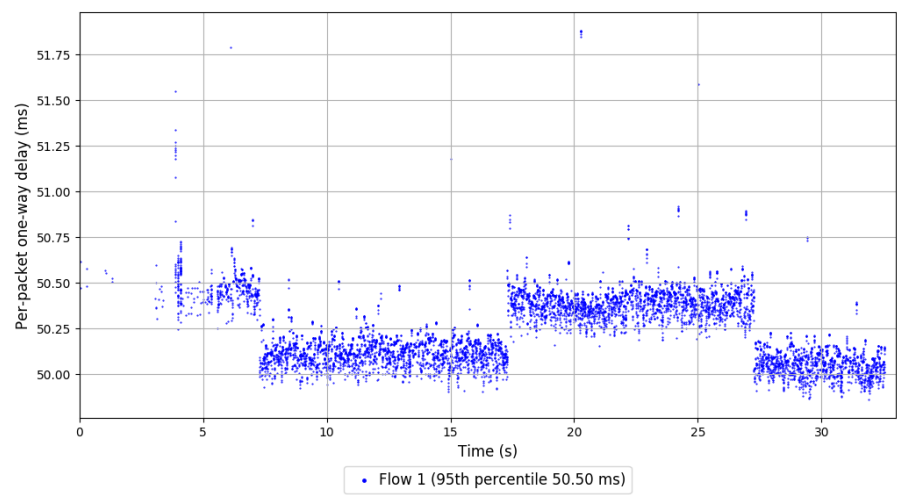
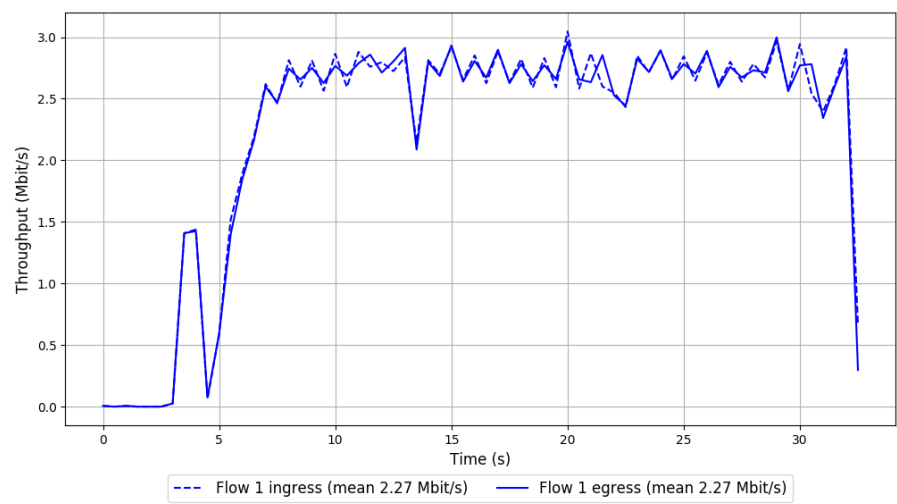
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.502 ms

Loss rate: 0.45%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 15:31:26

End at: 2018-01-16 15:31:56

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.662 ms

Loss rate: 0.45%

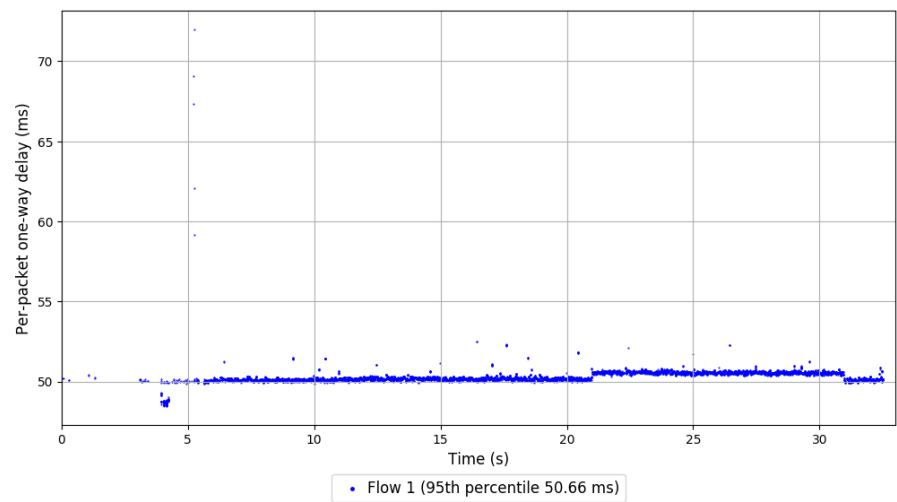
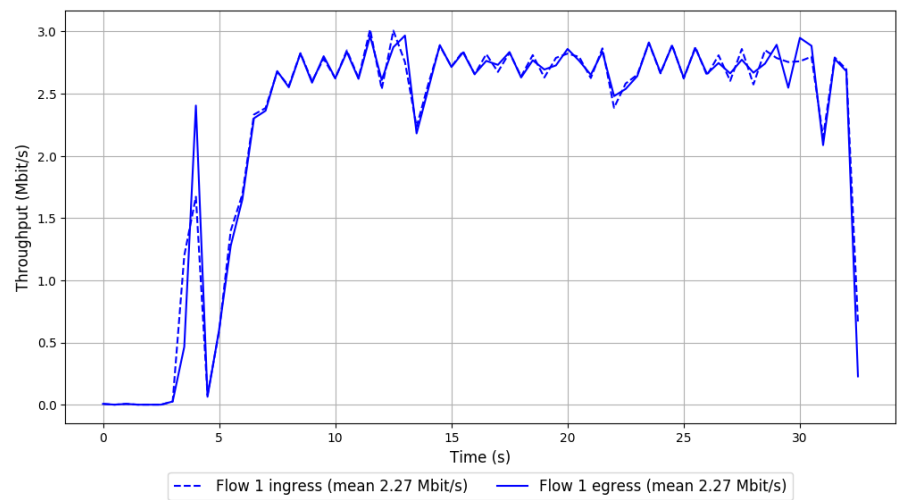
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.662 ms

Loss rate: 0.45%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-16 15:46:14

End at: 2018-01-16 15:46:44

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.46%

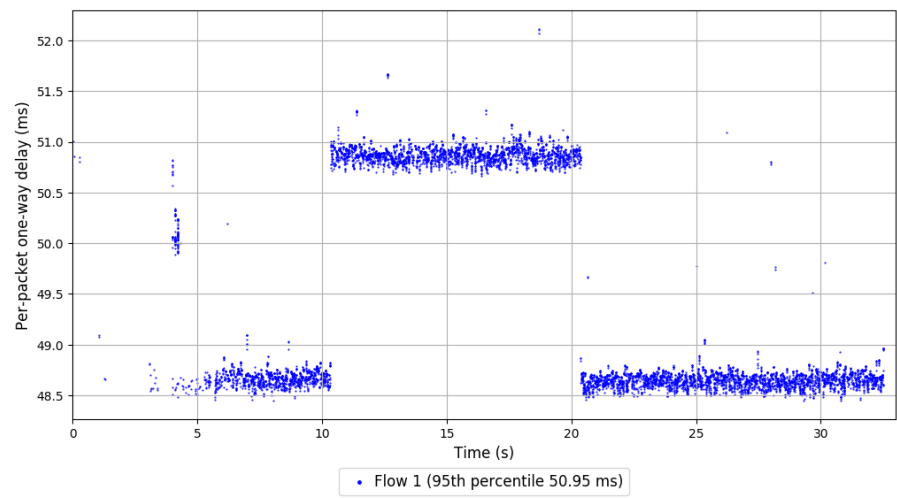
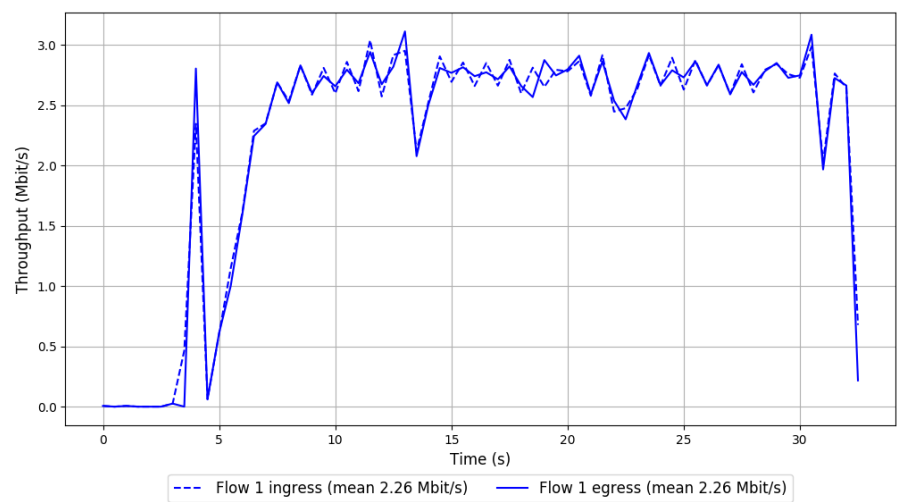
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.46%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.677 ms

Loss rate: 0.31%

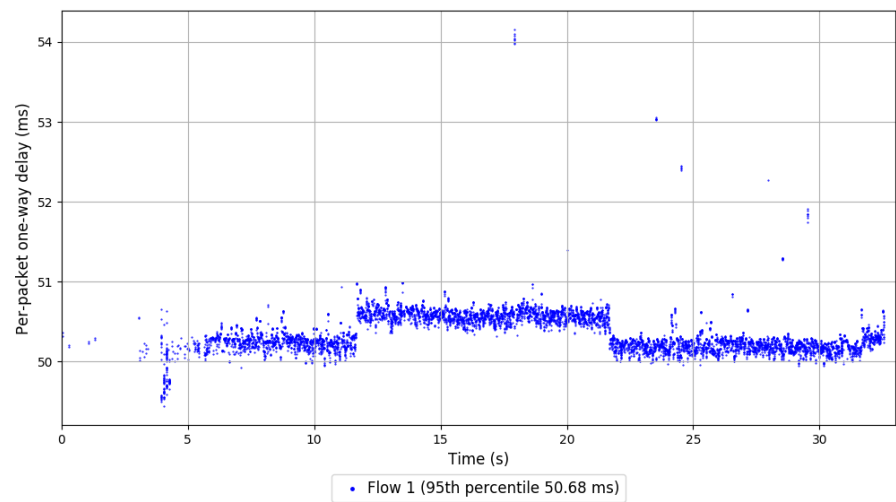
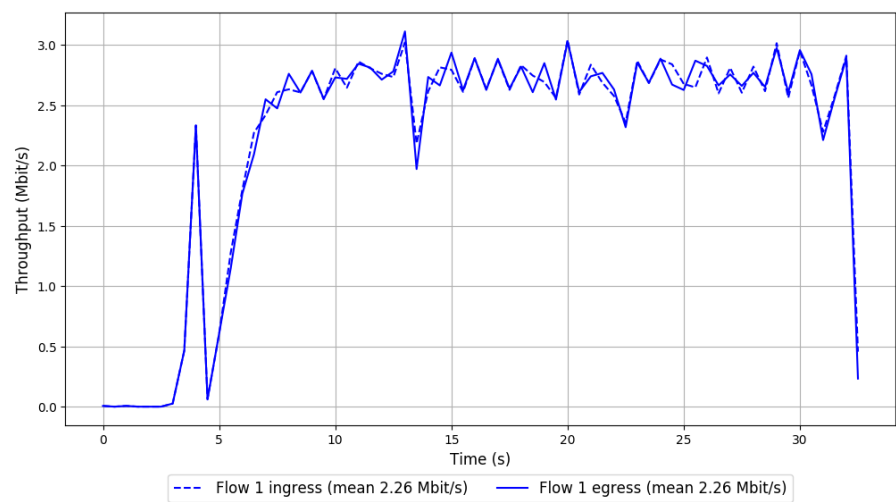
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.677 ms

Loss rate: 0.31%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.618 ms

Loss rate: 0.31%

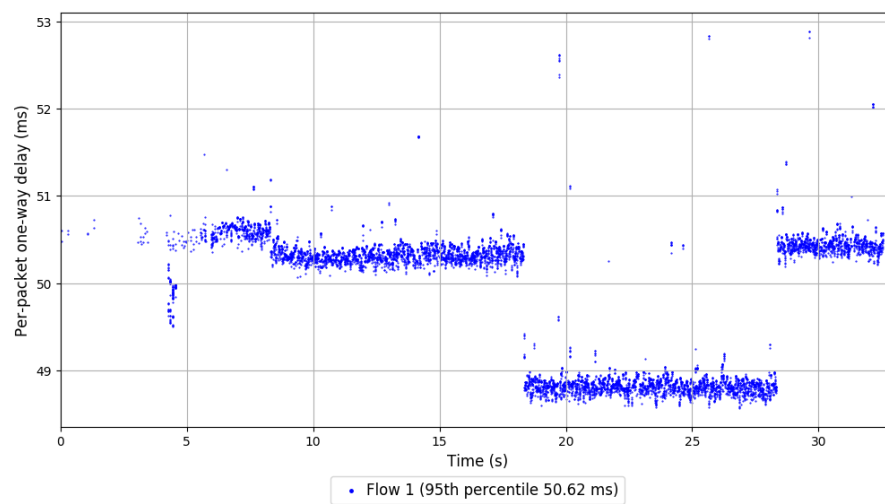
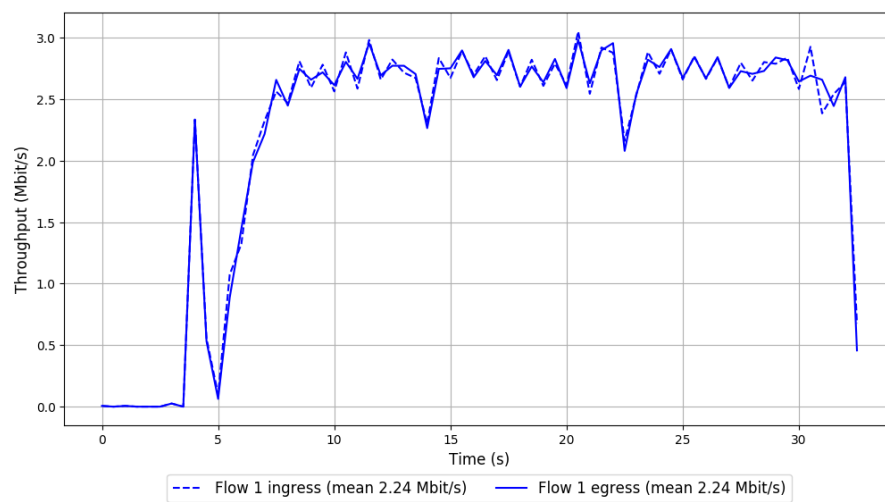
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.618 ms

Loss rate: 0.31%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

End at: 2018-01-16 16:30:47

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.381 ms

Loss rate: 0.31%

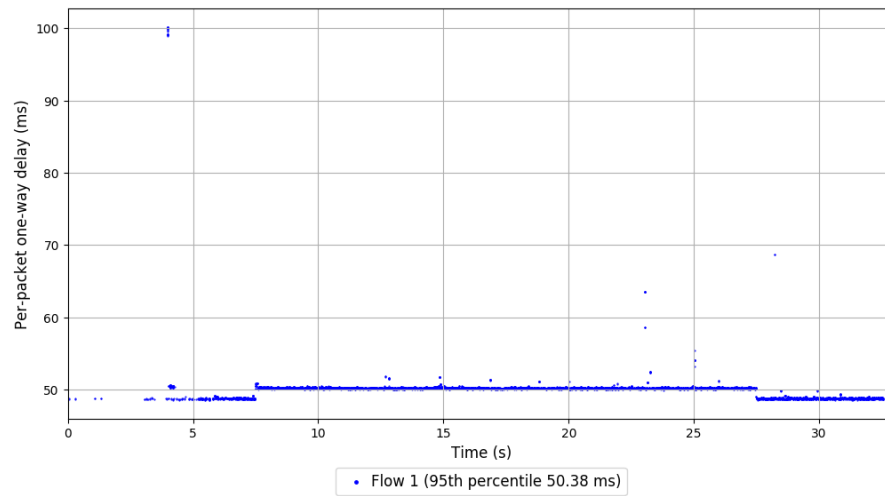
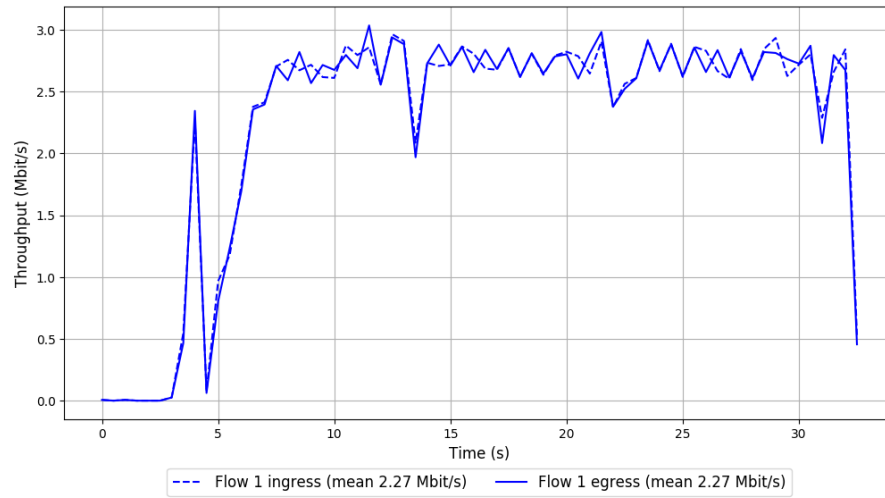
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.381 ms

Loss rate: 0.31%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 16:44:52

End at: 2018-01-16 16:45:22

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.30%

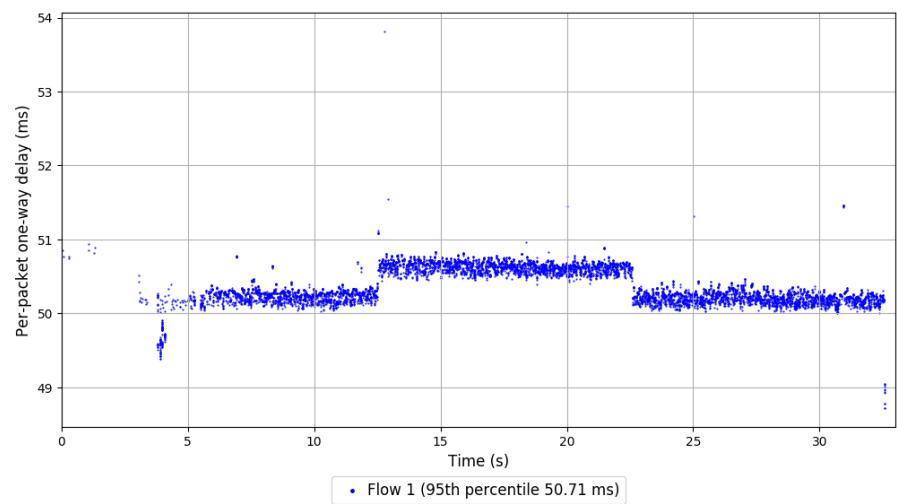
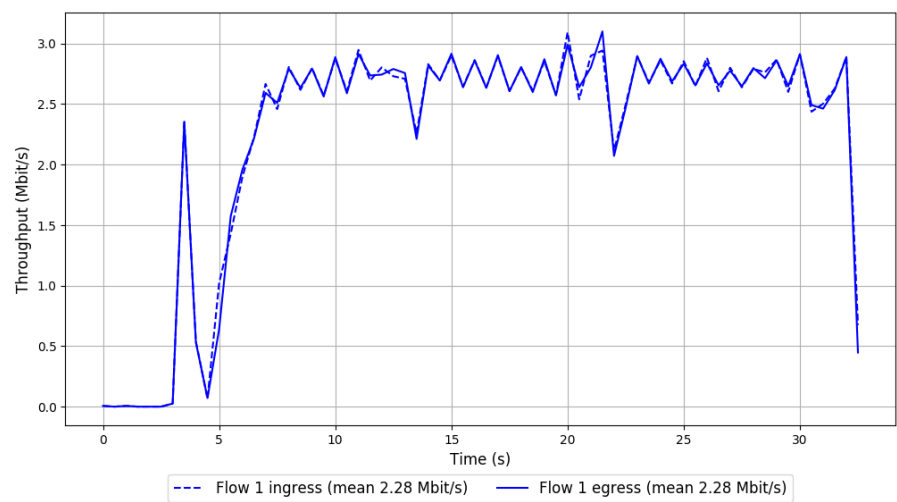
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.30%

Run 10: Report of WebRTC media — Data Link

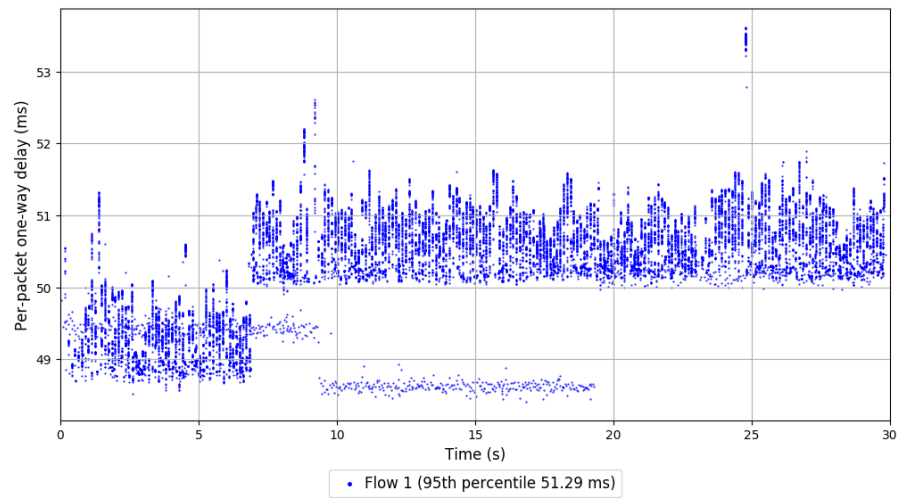
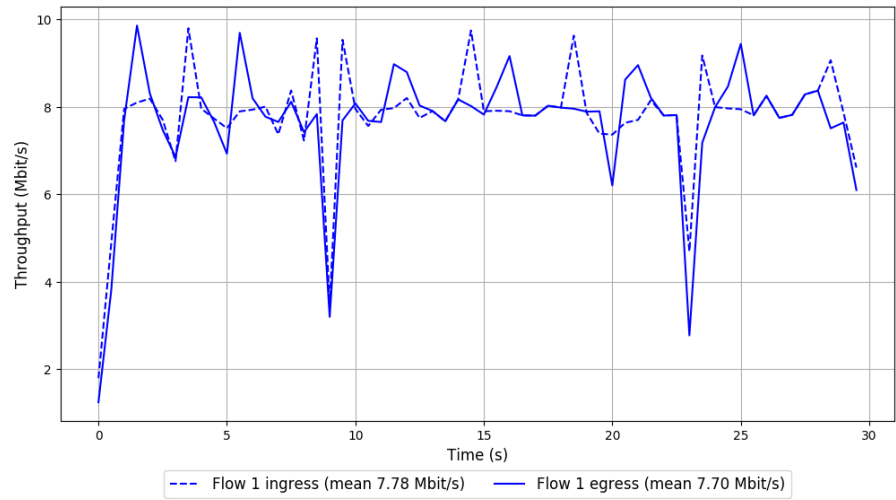


```
Run 1: Statistics of Sprout

Start at: 2018-01-16 14:41:25
End at: 2018-01-16 14:41:55

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 51.290 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 51.290 ms
Loss rate: 1.35%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-16 14:56:13

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 51.282 ms

Loss rate: 0.85%

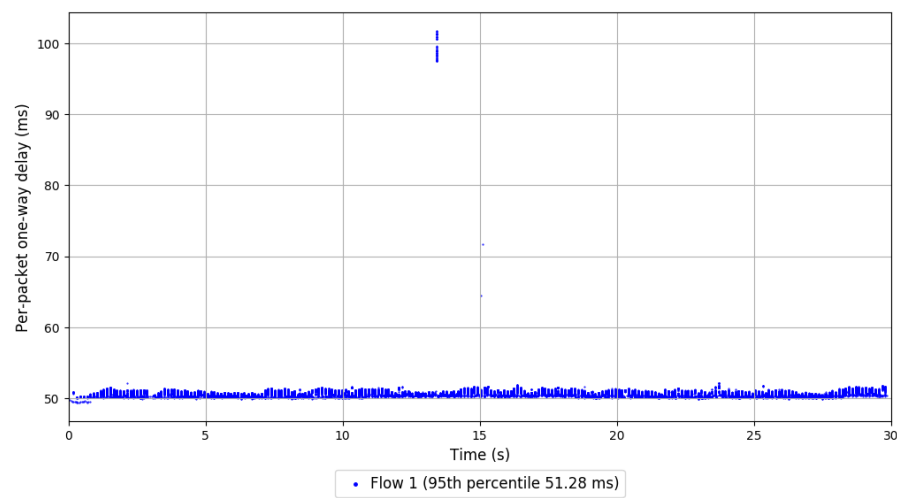
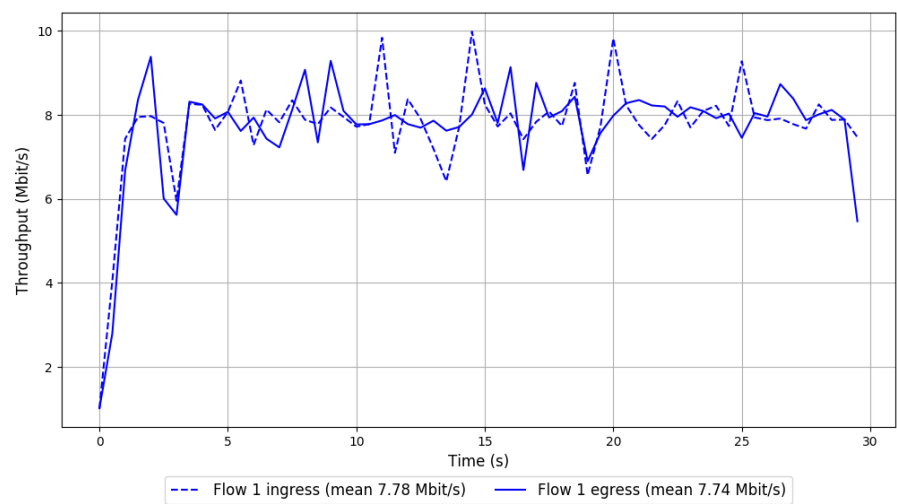
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 51.282 ms

Loss rate: 0.85%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 15:10:40

End at: 2018-01-16 15:11:10

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 51.420 ms

Loss rate: 0.36%

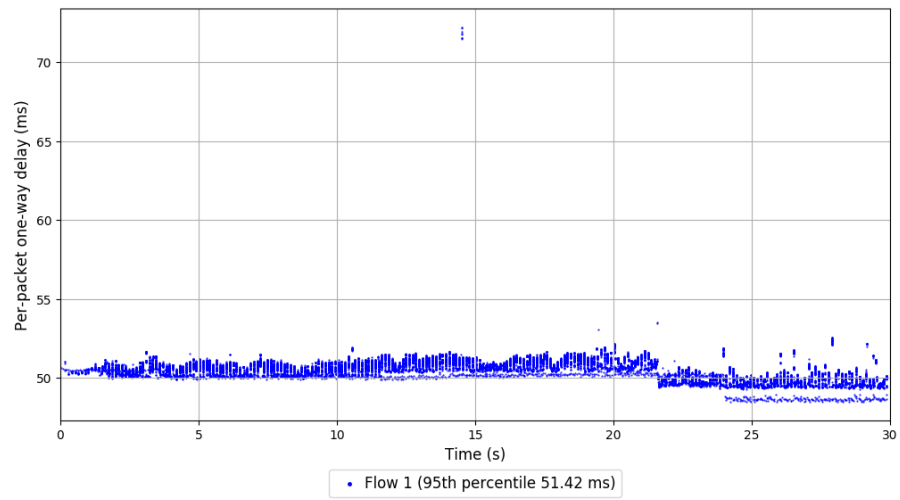
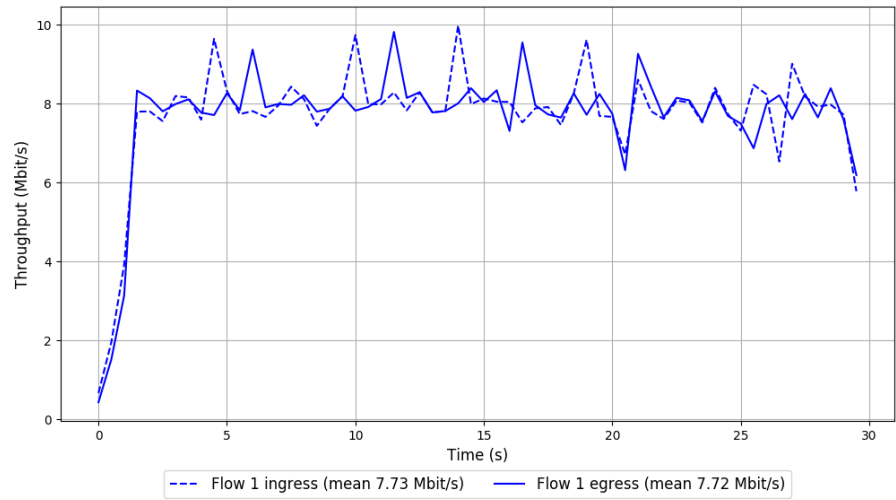
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 51.420 ms

Loss rate: 0.36%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 15:25:18

End at: 2018-01-16 15:25:48

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.514 ms

Loss rate: 0.43%

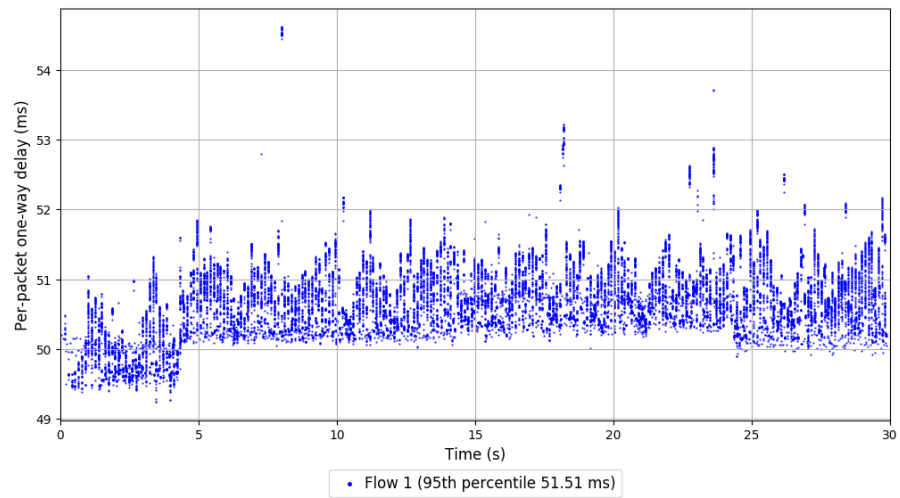
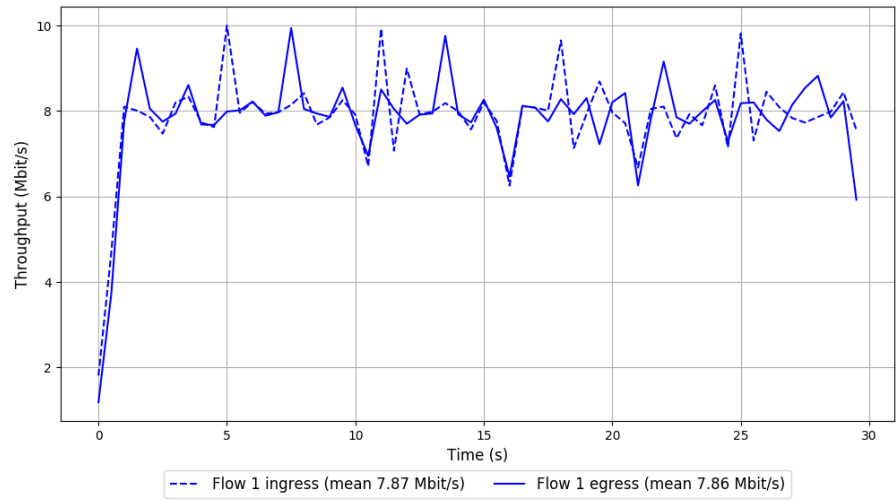
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.514 ms

Loss rate: 0.43%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

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 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.307 ms

Loss rate: 0.37%

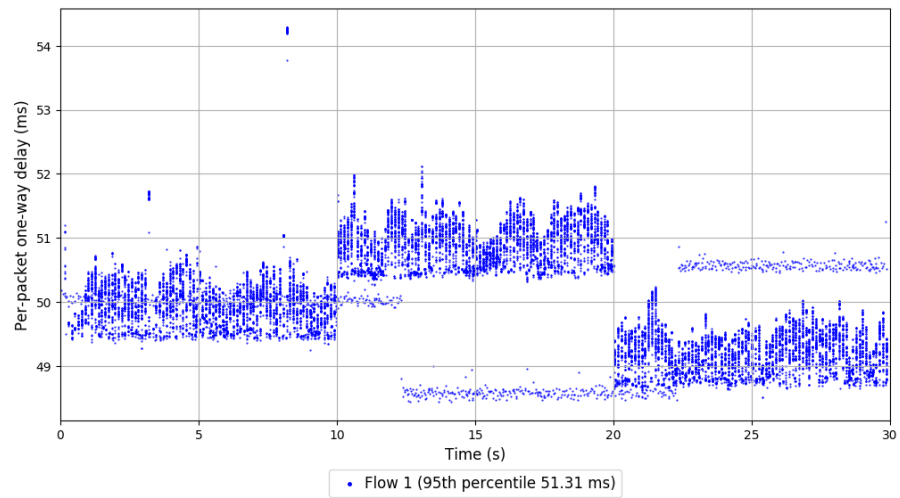
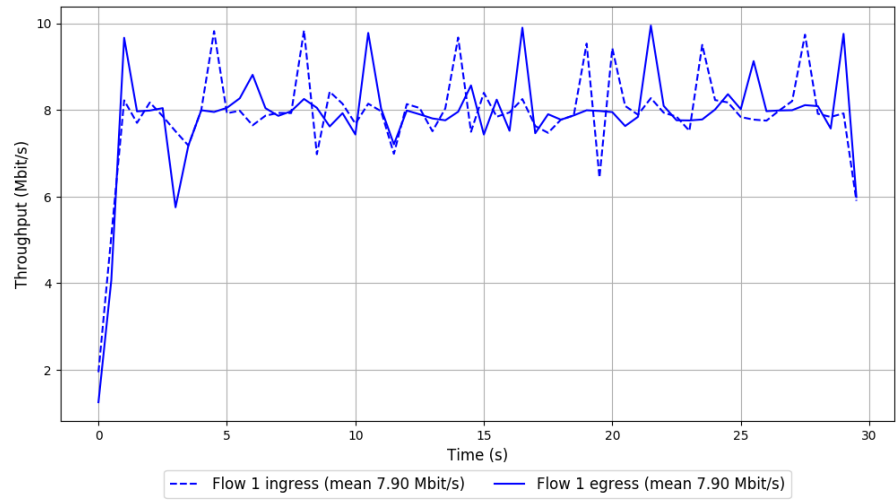
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.307 ms

Loss rate: 0.37%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 15:54:30

End at: 2018-01-16 15:55:00

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.180 ms

Loss rate: 0.90%

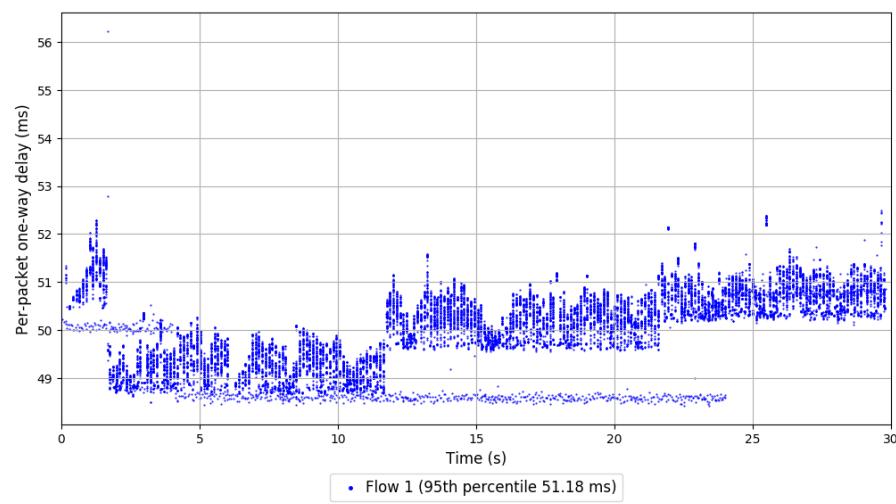
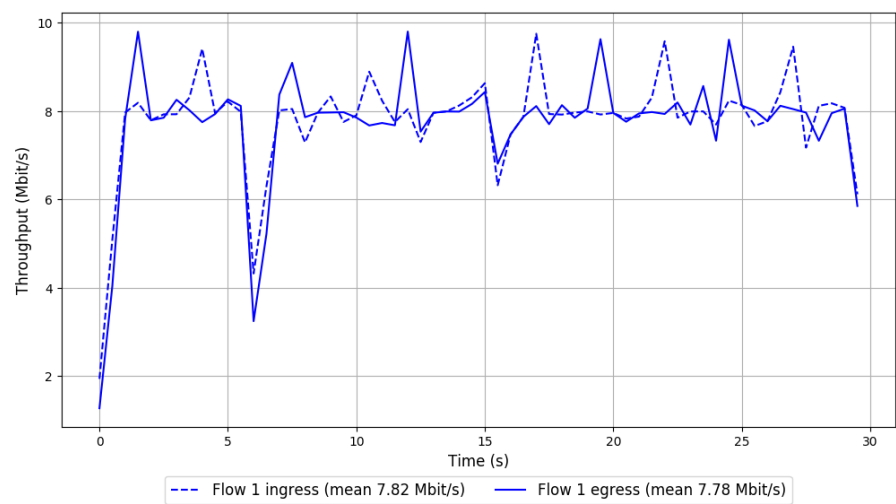
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.180 ms

Loss rate: 0.90%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

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

End at: 2018-01-16 16:09:39

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 51.343 ms

Loss rate: 0.61%

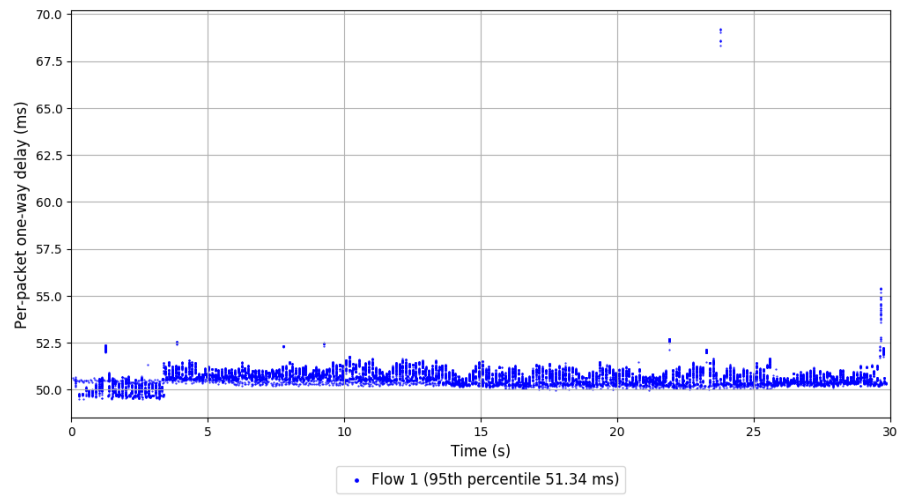
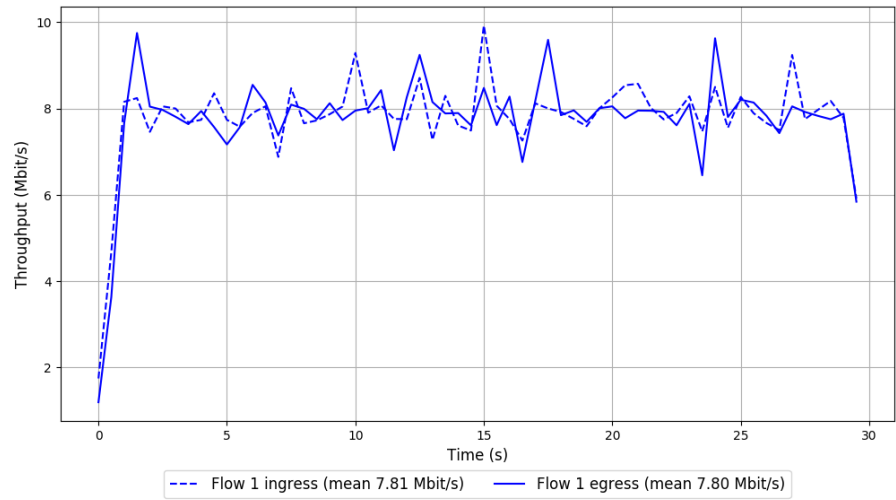
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 51.343 ms

Loss rate: 0.61%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-16 16:24:00

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

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.498 ms

Loss rate: 0.36%

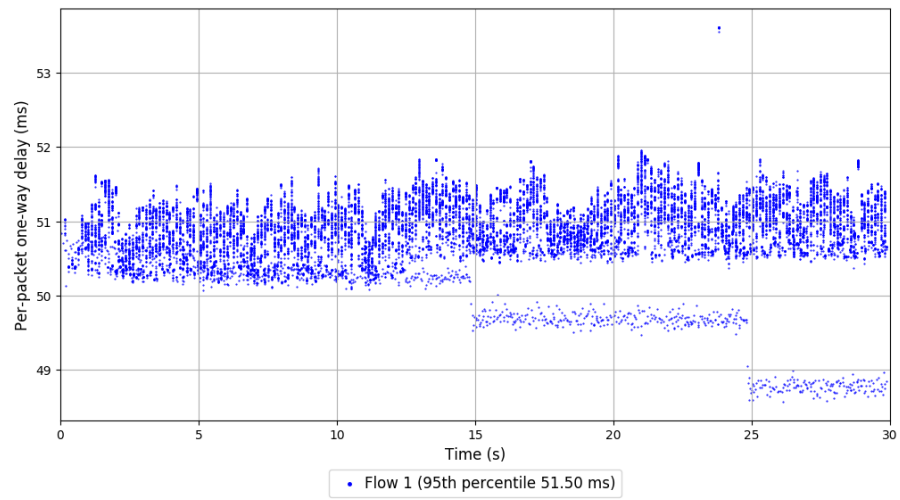
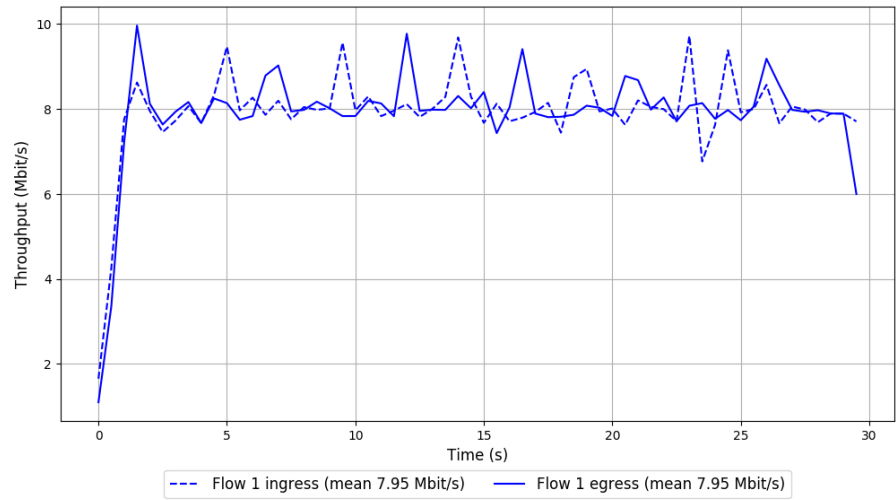
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.498 ms

Loss rate: 0.36%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-16 16:38:37

End at: 2018-01-16 16:39:07

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 51.339 ms

Loss rate: 0.37%

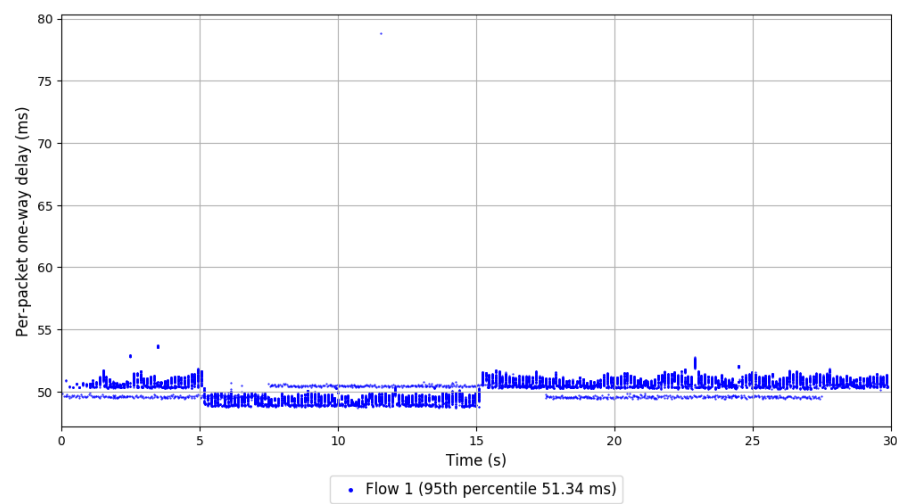
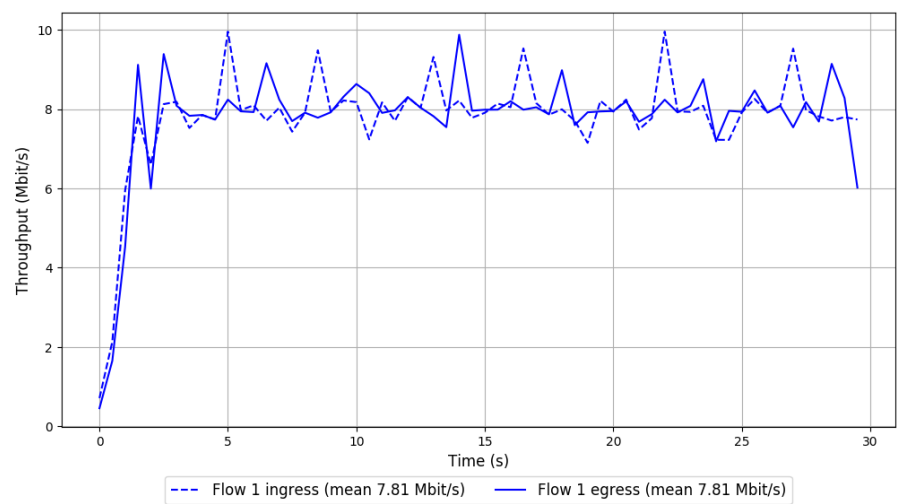
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 51.339 ms

Loss rate: 0.37%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-16 16:53:35

End at: 2018-01-16 16:54:05

Below is generated by plot.py at 2018-01-16 19:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.788 ms

Loss rate: 0.39%

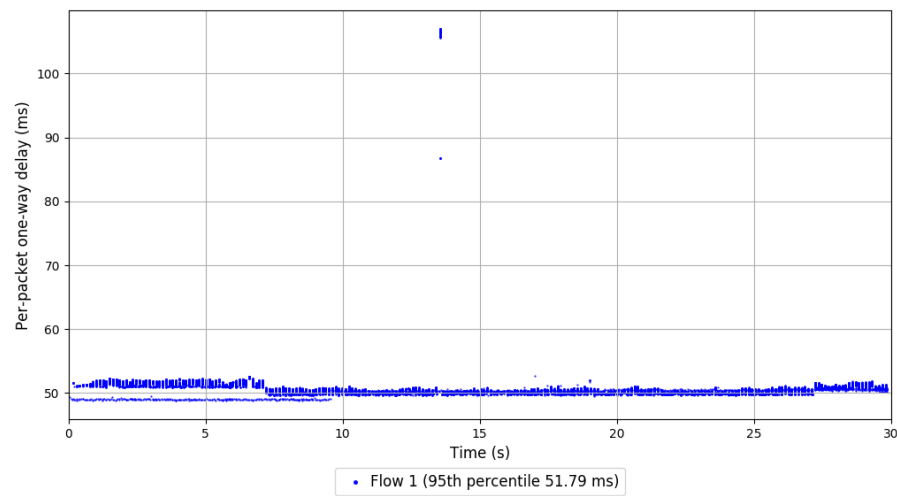
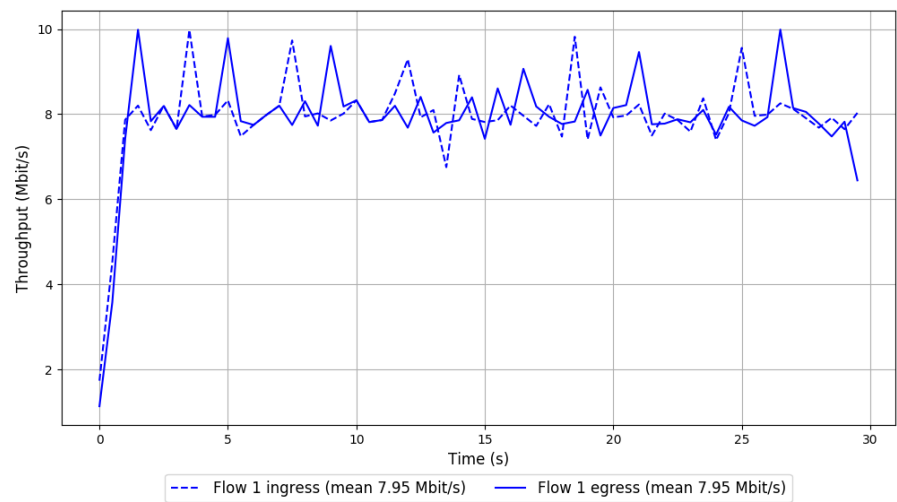
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.788 ms

Loss rate: 0.39%

Run 10: Report of Sprout — Data Link

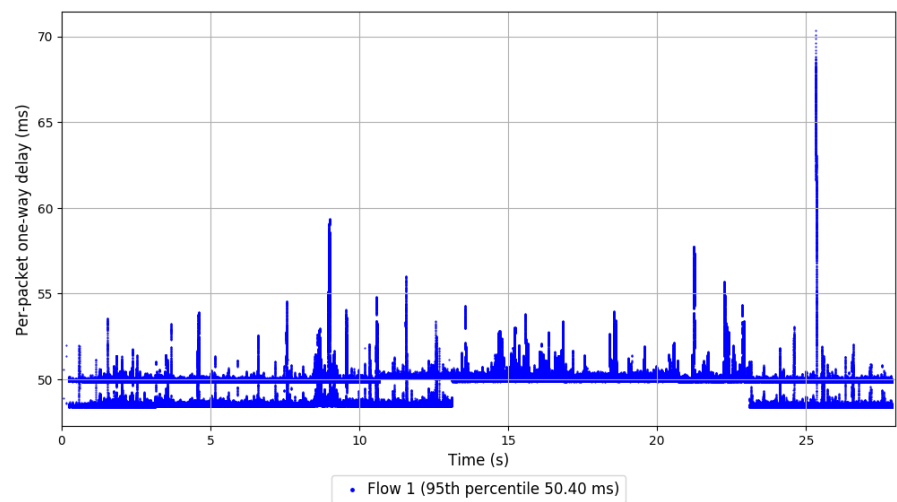
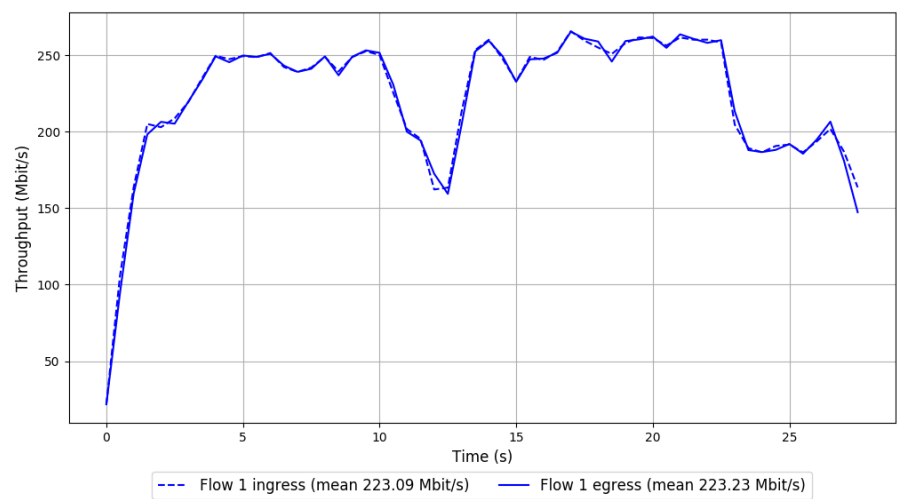


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 14:33:19
End at: 2018-01-16 14:33:49

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.23 Mbit/s
95th percentile per-packet one-way delay: 50.403 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 223.23 Mbit/s
95th percentile per-packet one-way delay: 50.403 ms
Loss rate: 0.30%
```


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

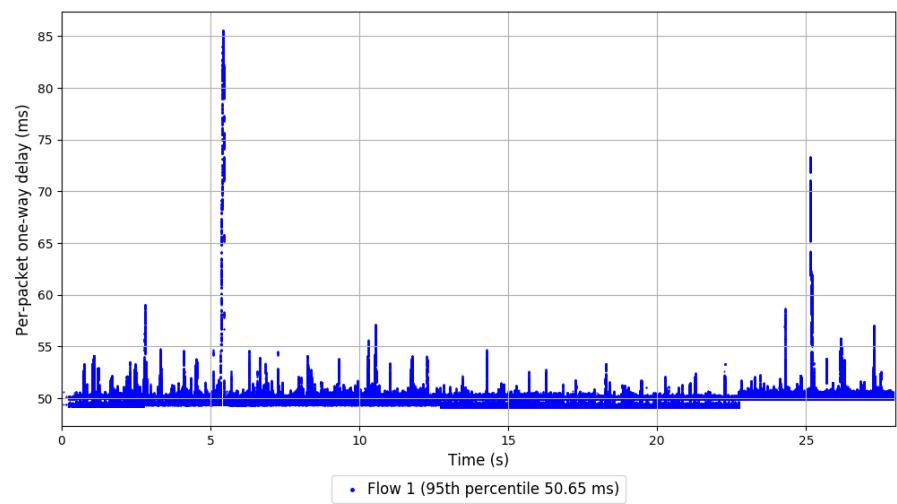
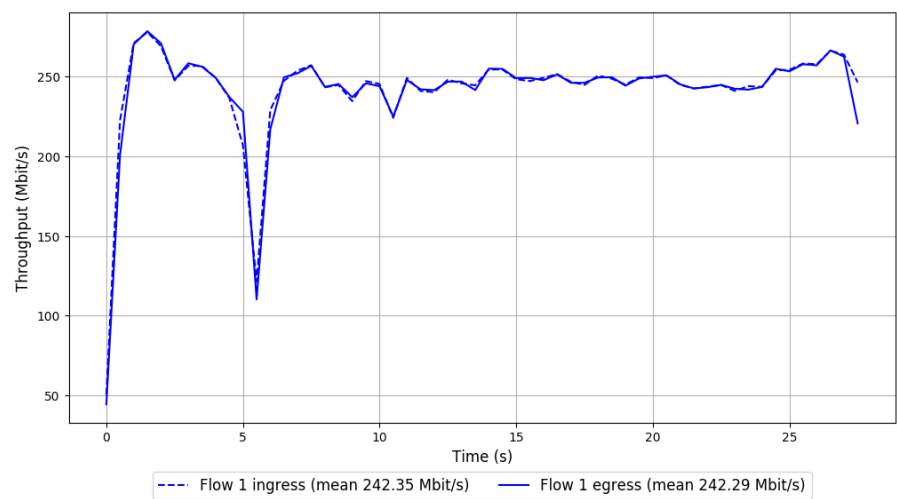


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 14:48:10
End at: 2018-01-16 14:48:40

# Below is generated by plot.py at 2018-01-16 19:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.29 Mbit/s
95th percentile per-packet one-way delay: 50.650 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 242.29 Mbit/s
95th percentile per-packet one-way delay: 50.650 ms
Loss rate: 0.40%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 15:02:57

End at: 2018-01-16 15:03:27

Below is generated by plot.py at 2018-01-16 19:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.32 Mbit/s

95th percentile per-packet one-way delay: 50.627 ms

Loss rate: 0.45%

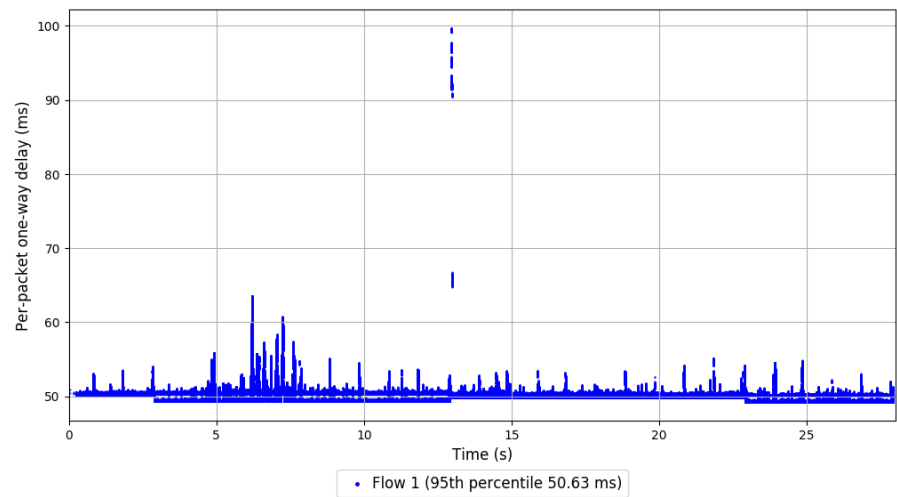
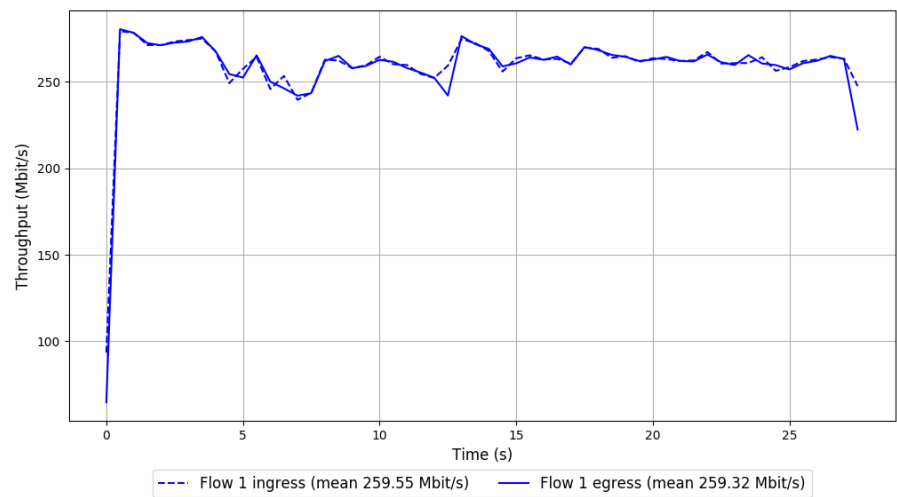
-- Flow 1:

Average throughput: 259.32 Mbit/s

95th percentile per-packet one-way delay: 50.627 ms

Loss rate: 0.45%

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

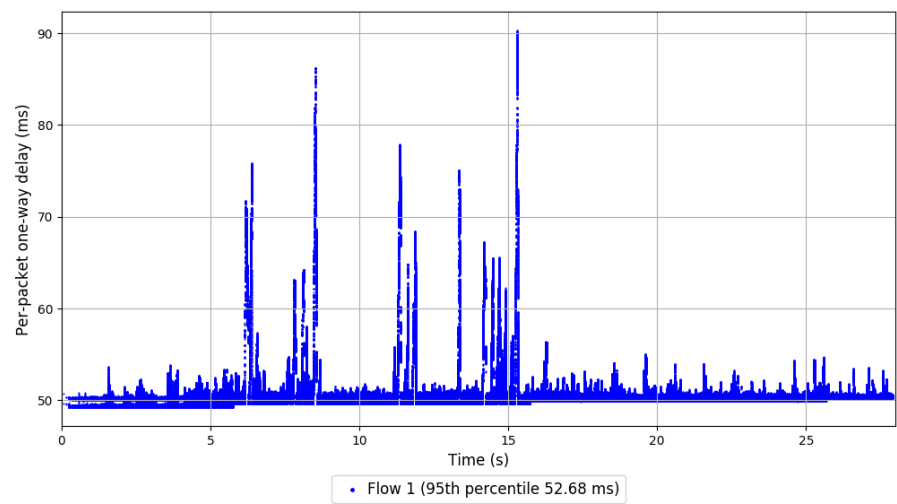
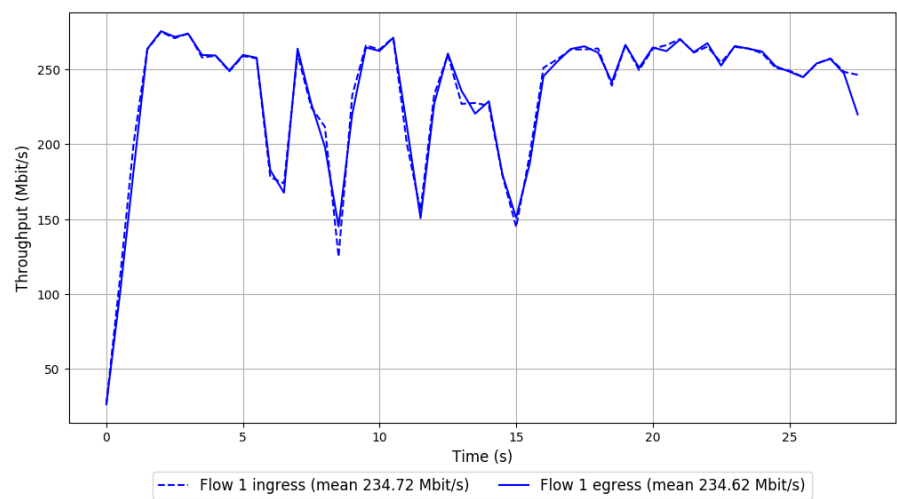


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 15:17:34
End at: 2018-01-16 15:18:04

# Below is generated by plot.py at 2018-01-16 19:56:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.62 Mbit/s
95th percentile per-packet one-way delay: 52.678 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 234.62 Mbit/s
95th percentile per-packet one-way delay: 52.678 ms
Loss rate: 0.40%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 15:32:03

End at: 2018-01-16 15:32:33

Below is generated by plot.py at 2018-01-16 19:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.30 Mbit/s

95th percentile per-packet one-way delay: 50.397 ms

Loss rate: 0.38%

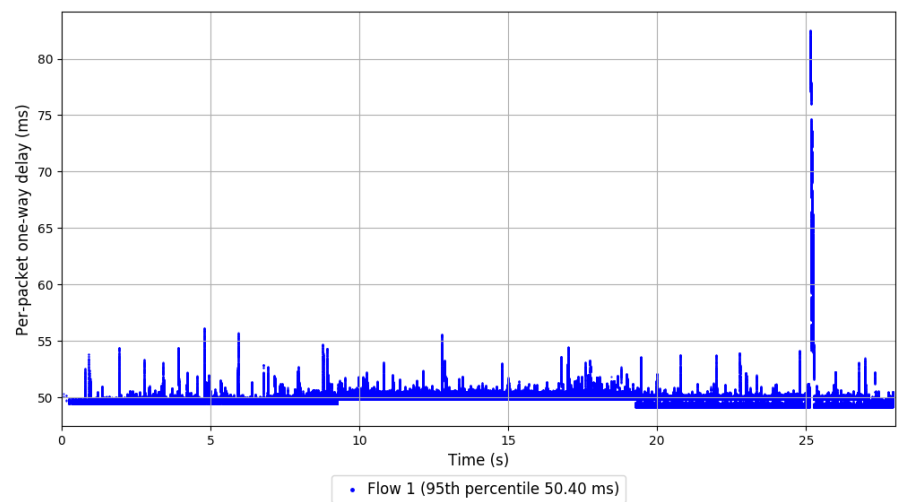
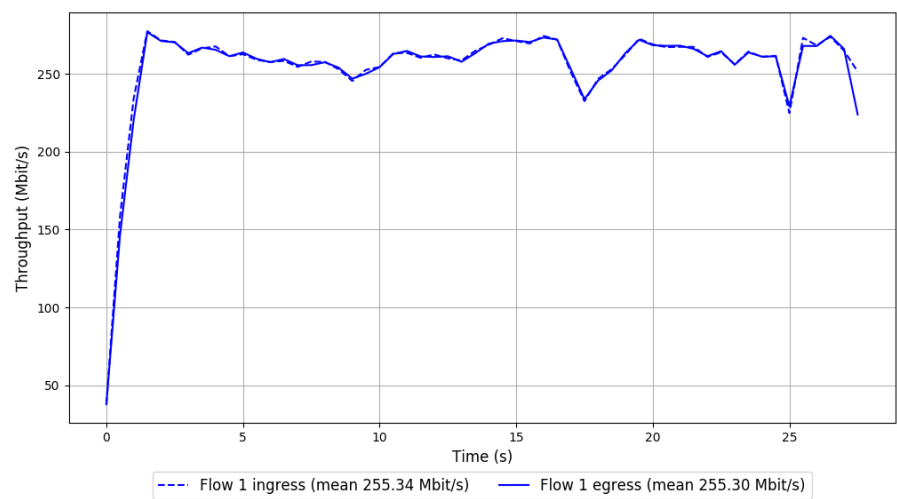
-- Flow 1:

Average throughput: 255.30 Mbit/s

95th percentile per-packet one-way delay: 50.397 ms

Loss rate: 0.38%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 15:46:51

End at: 2018-01-16 15:47:21

Below is generated by plot.py at 2018-01-16 19:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.73 Mbit/s

95th percentile per-packet one-way delay: 52.171 ms

Loss rate: 0.47%

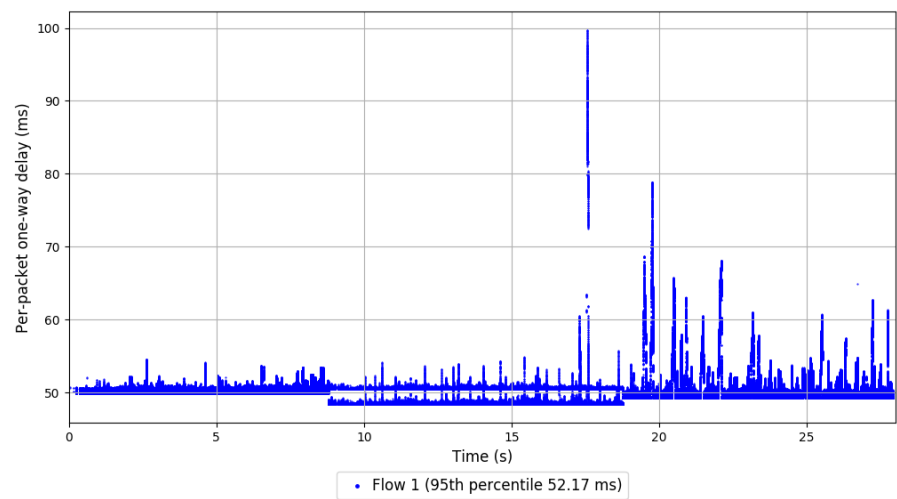
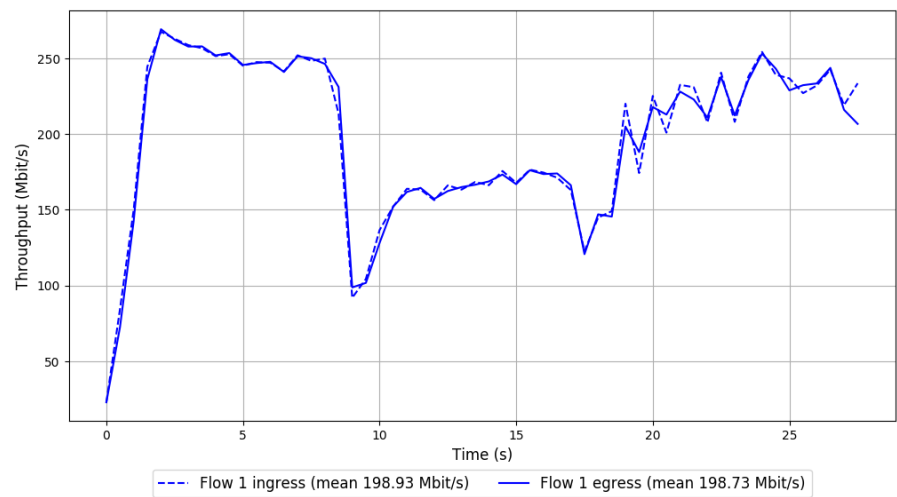
-- Flow 1:

Average throughput: 198.73 Mbit/s

95th percentile per-packet one-way delay: 52.171 ms

Loss rate: 0.47%

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

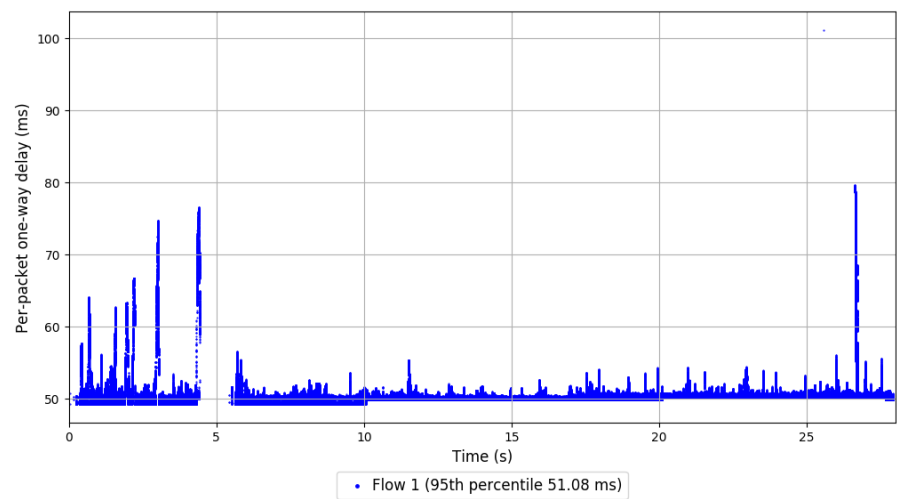
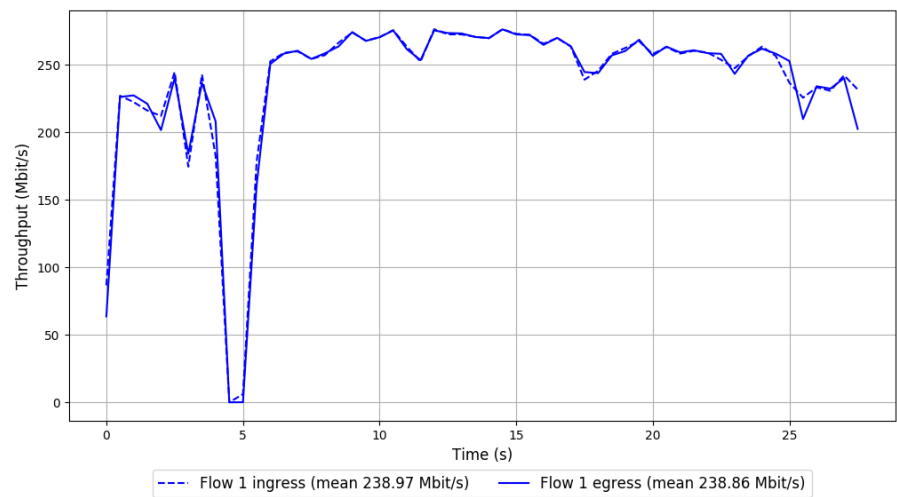


```
Run 7: Statistics of TaoVA-100x

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

# Below is generated by plot.py at 2018-01-16 20:01:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.86 Mbit/s
95th percentile per-packet one-way delay: 51.078 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 238.86 Mbit/s
95th percentile per-packet one-way delay: 51.078 ms
Loss rate: 0.40%
```

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



Run 8: Statistics of TaoVA-100x

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

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

Below is generated by plot.py at 2018-01-16 20:02:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.56 Mbit/s

95th percentile per-packet one-way delay: 50.595 ms

Loss rate: 0.33%

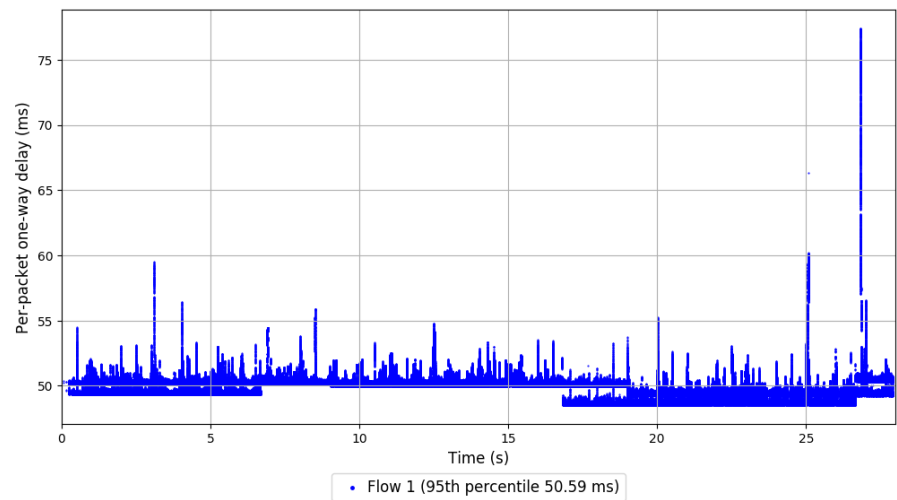
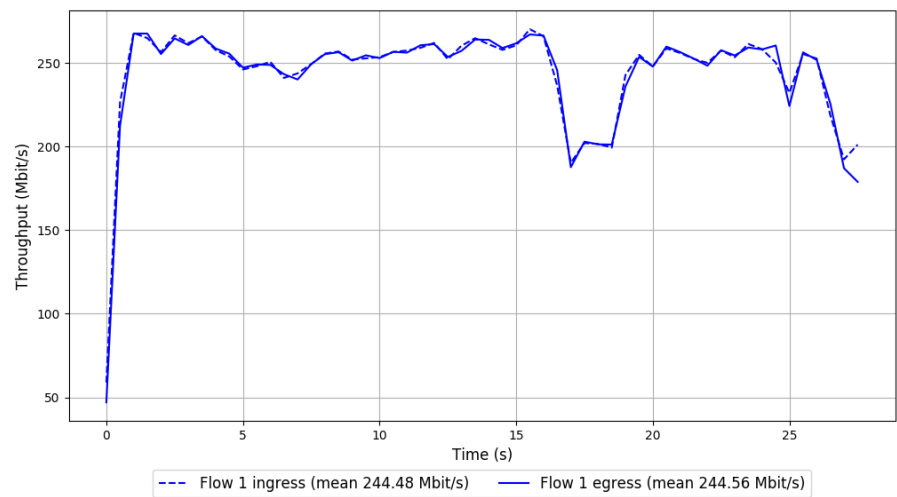
-- Flow 1:

Average throughput: 244.56 Mbit/s

95th percentile per-packet one-way delay: 50.595 ms

Loss rate: 0.33%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 16:30:54

End at: 2018-01-16 16:31:24

Below is generated by plot.py at 2018-01-16 20:02:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.31 Mbit/s

95th percentile per-packet one-way delay: 50.474 ms

Loss rate: 0.46%

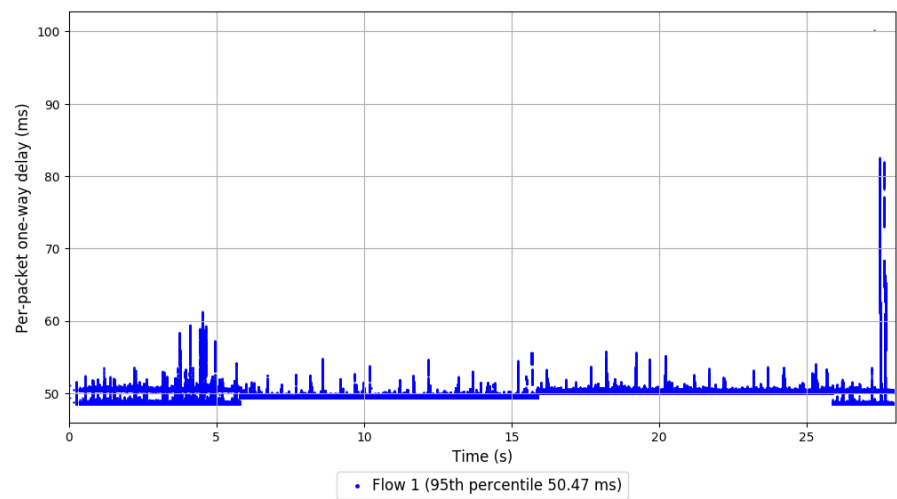
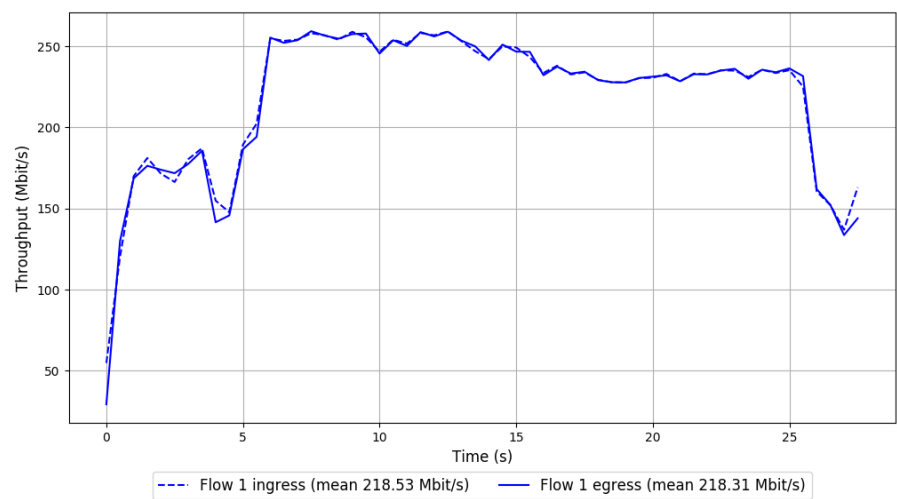
-- Flow 1:

Average throughput: 218.31 Mbit/s

95th percentile per-packet one-way delay: 50.474 ms

Loss rate: 0.46%

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

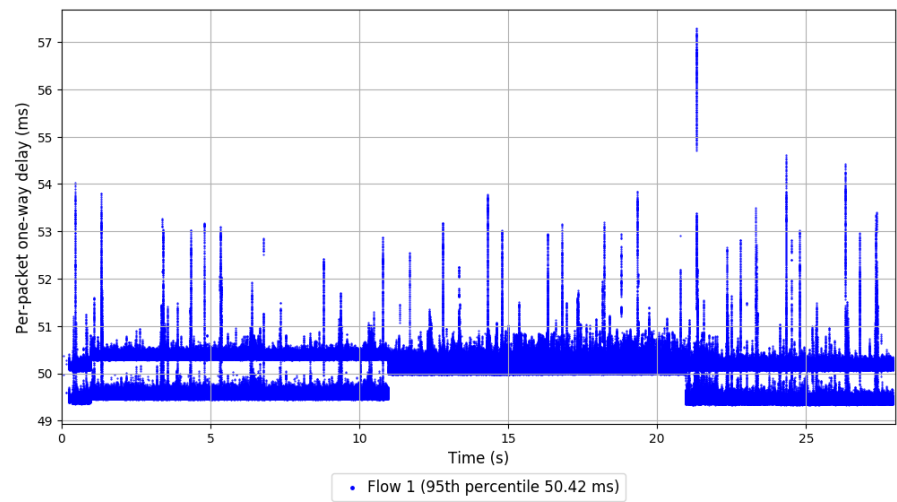
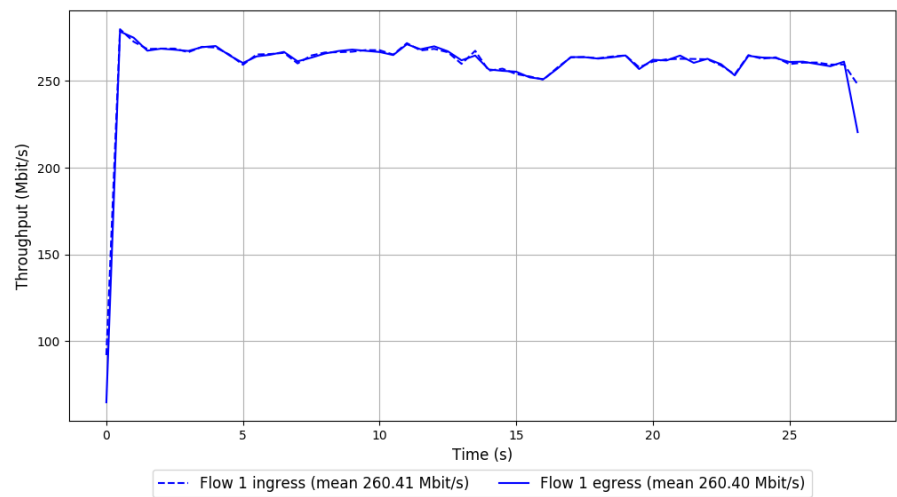


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 16:45:29
End at: 2018-01-16 16:45:59

# Below is generated by plot.py at 2018-01-16 20:03:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.40 Mbit/s
95th percentile per-packet one-way delay: 50.423 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 260.40 Mbit/s
95th percentile per-packet one-way delay: 50.423 ms
Loss rate: 0.37%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 14:42:02

End at: 2018-01-16 14:42:32

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.84 Mbit/s

95th percentile per-packet one-way delay: 52.151 ms

Loss rate: 0.57%

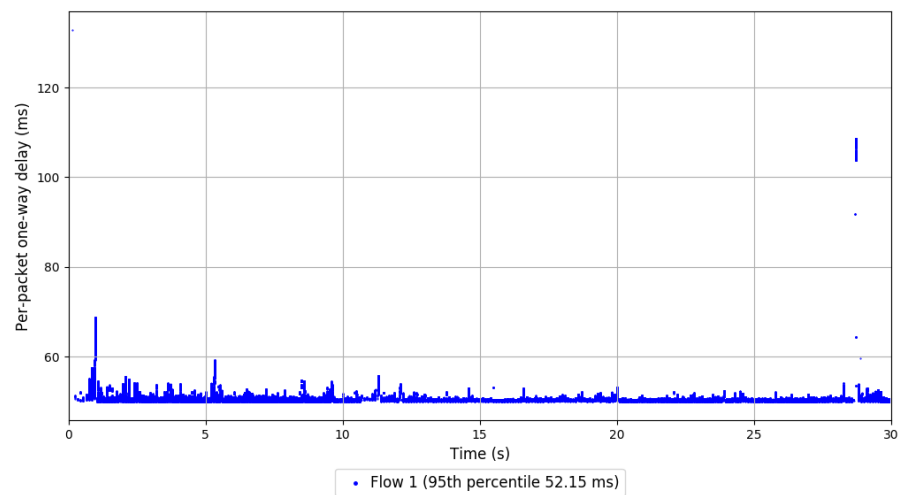
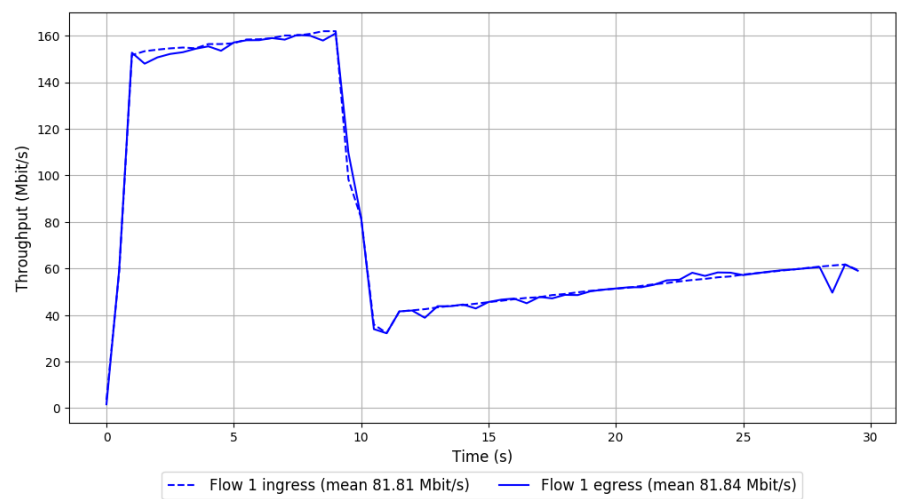
-- Flow 1:

Average throughput: 81.84 Mbit/s

95th percentile per-packet one-way delay: 52.151 ms

Loss rate: 0.57%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 14:56:51

End at: 2018-01-16 14:57:21

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.05 Mbit/s

95th percentile per-packet one-way delay: 51.056 ms

Loss rate: 0.49%

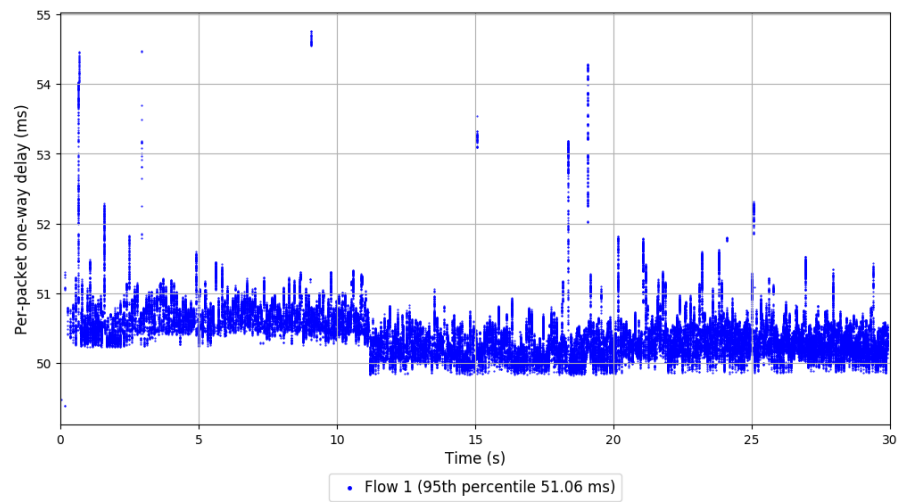
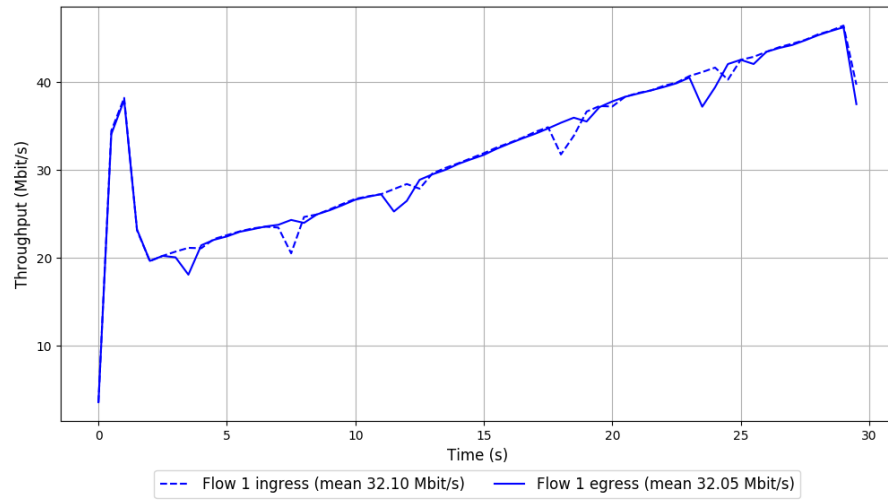
-- Flow 1:

Average throughput: 32.05 Mbit/s

95th percentile per-packet one-way delay: 51.056 ms

Loss rate: 0.49%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 15:11:18

End at: 2018-01-16 15:11:48

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.25 Mbit/s

95th percentile per-packet one-way delay: 51.319 ms

Loss rate: 0.66%

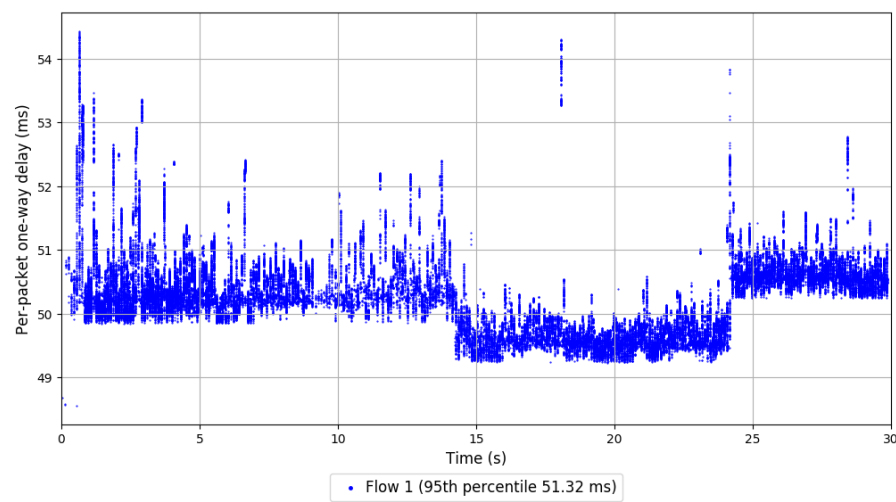
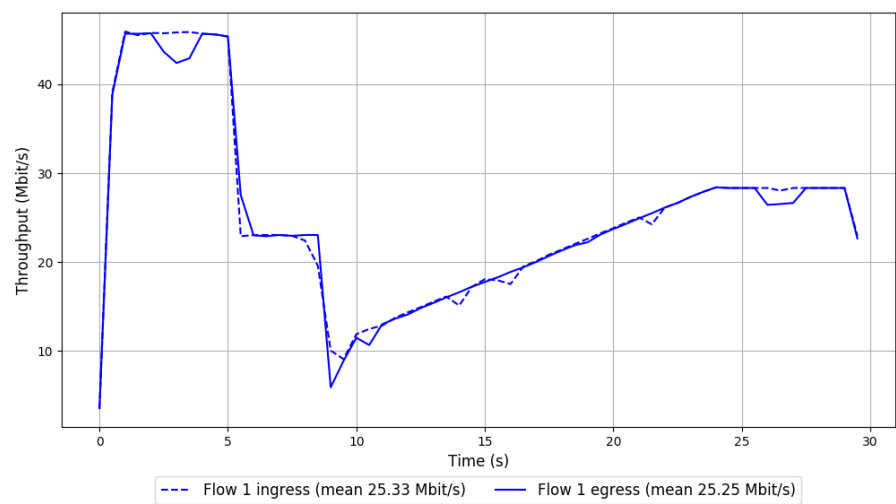
-- Flow 1:

Average throughput: 25.25 Mbit/s

95th percentile per-packet one-way delay: 51.319 ms

Loss rate: 0.66%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 15:25:55

End at: 2018-01-16 15:26:25

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 51.287 ms

Loss rate: 1.13%

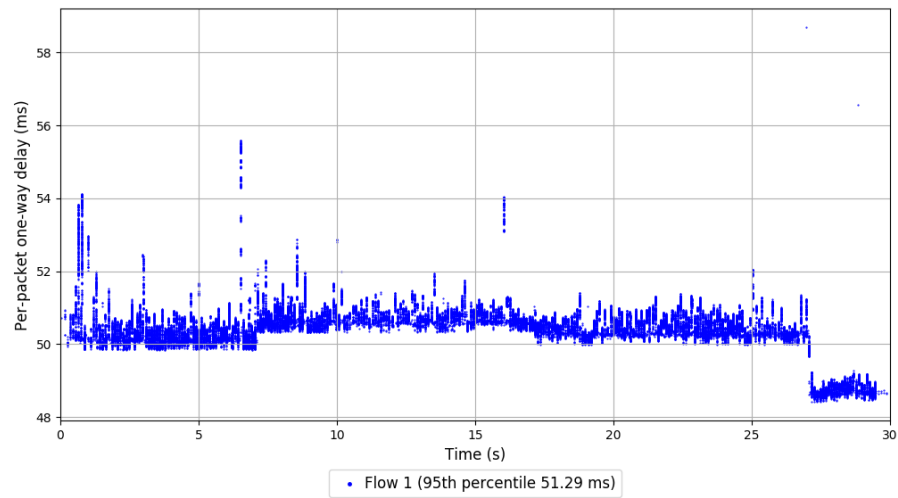
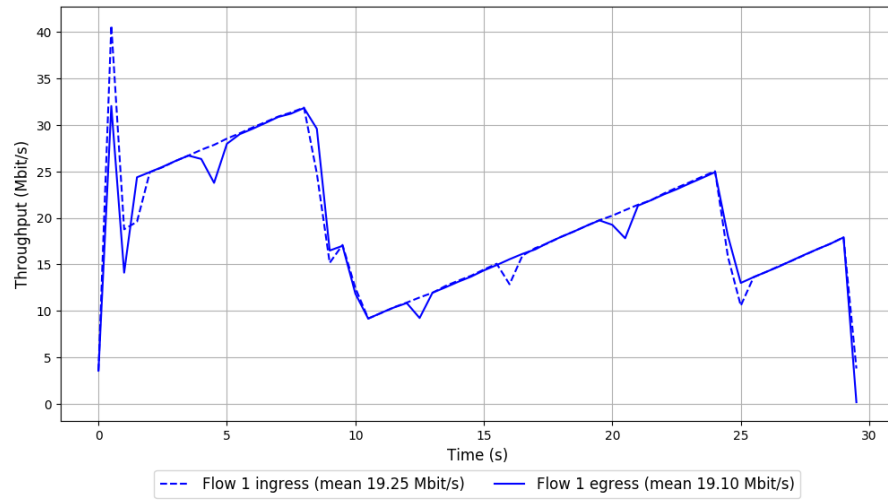
-- Flow 1:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 51.287 ms

Loss rate: 1.13%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 15:40:39

End at: 2018-01-16 15:41:09

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.62 Mbit/s

95th percentile per-packet one-way delay: 57.297 ms

Loss rate: 1.04%

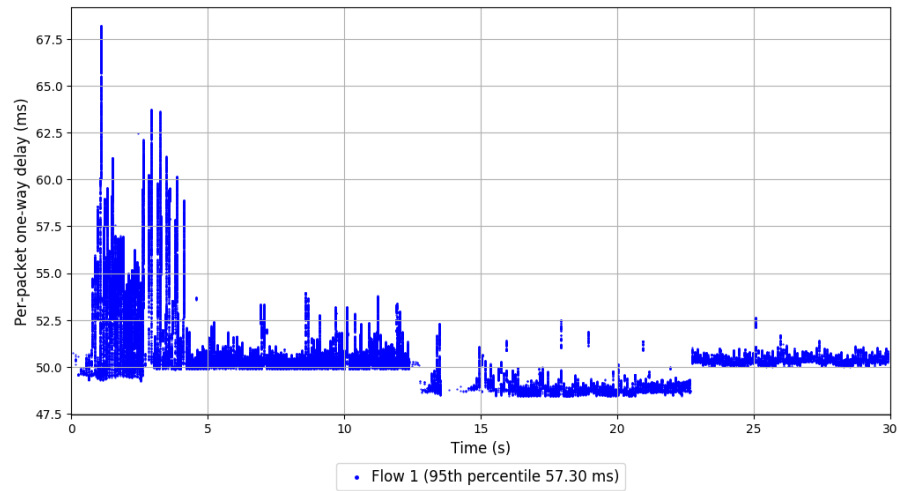
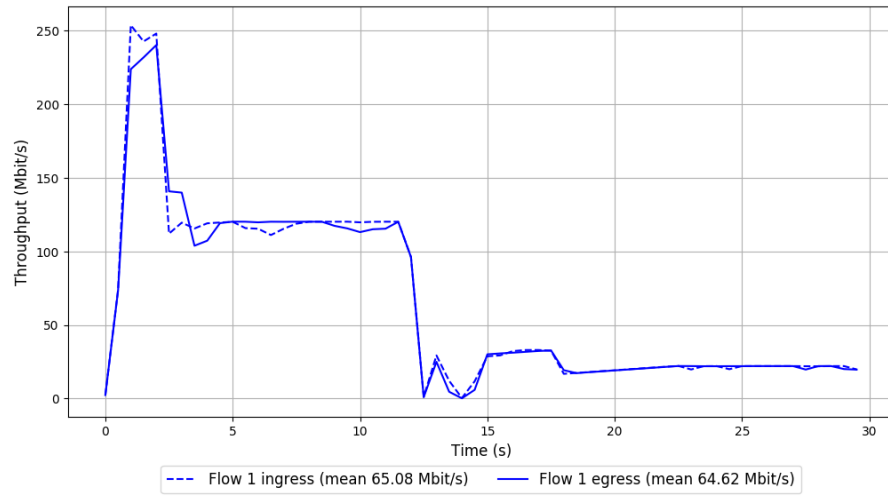
-- Flow 1:

Average throughput: 64.62 Mbit/s

95th percentile per-packet one-way delay: 57.297 ms

Loss rate: 1.04%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 15:55:08

End at: 2018-01-16 15:55:38

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 51.439 ms

Loss rate: 0.55%

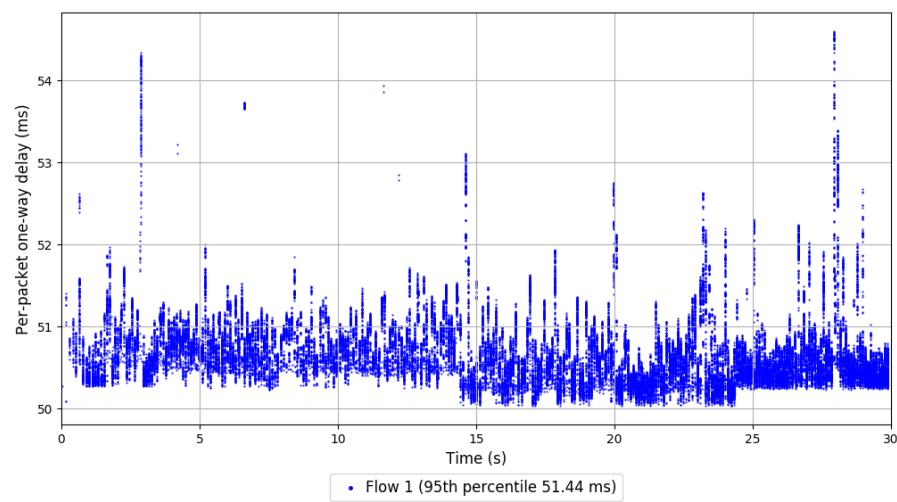
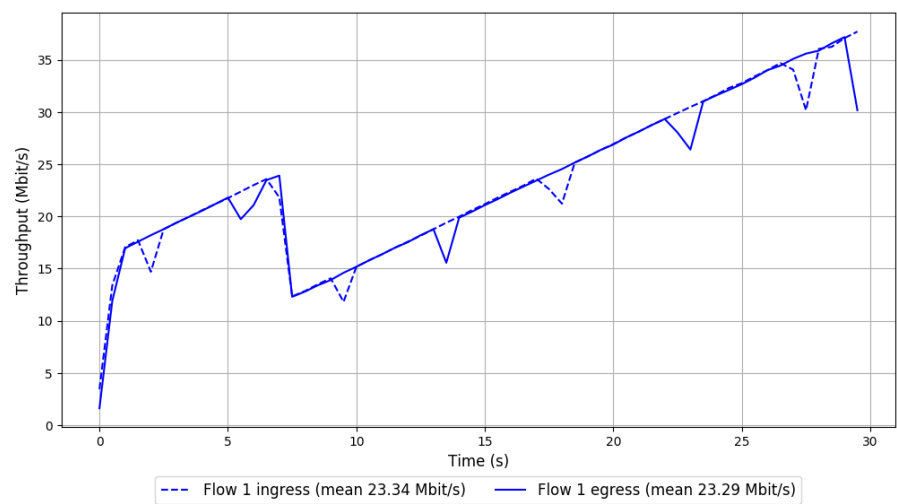
-- Flow 1:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 51.439 ms

Loss rate: 0.55%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 16:09:46

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

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.01 Mbit/s

95th percentile per-packet one-way delay: 59.402 ms

Loss rate: 0.27%

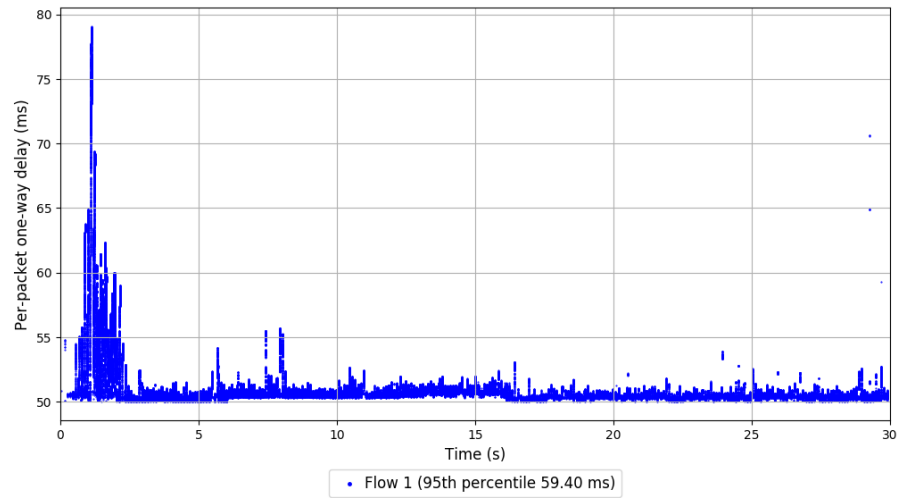
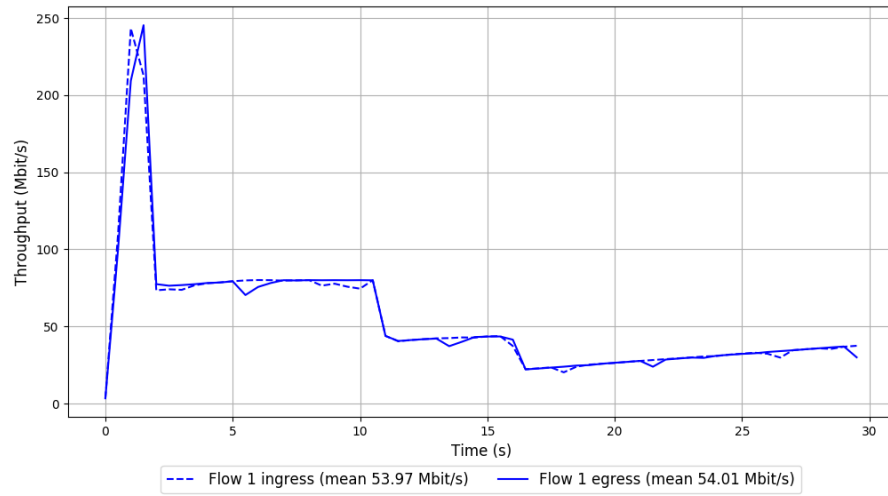
-- Flow 1:

Average throughput: 54.01 Mbit/s

95th percentile per-packet one-way delay: 59.402 ms

Loss rate: 0.27%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 16:24:37

End at: 2018-01-16 16:25:07

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 51.222 ms

Loss rate: 0.27%

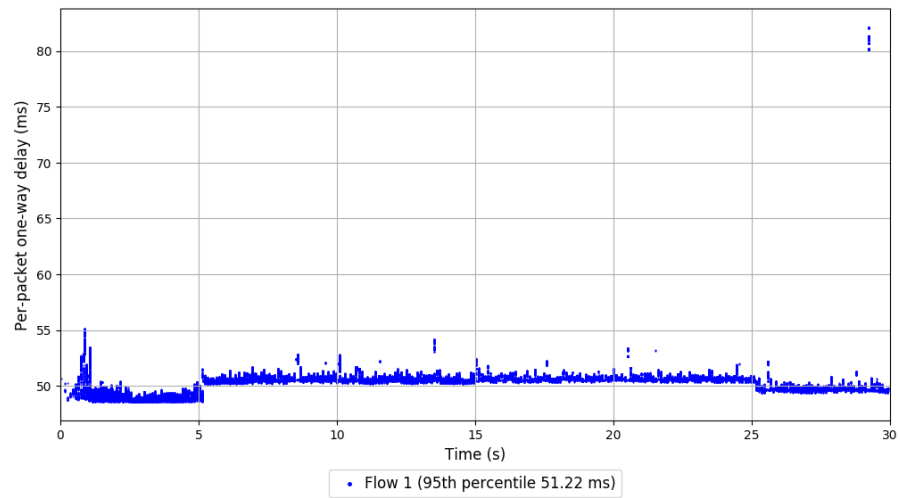
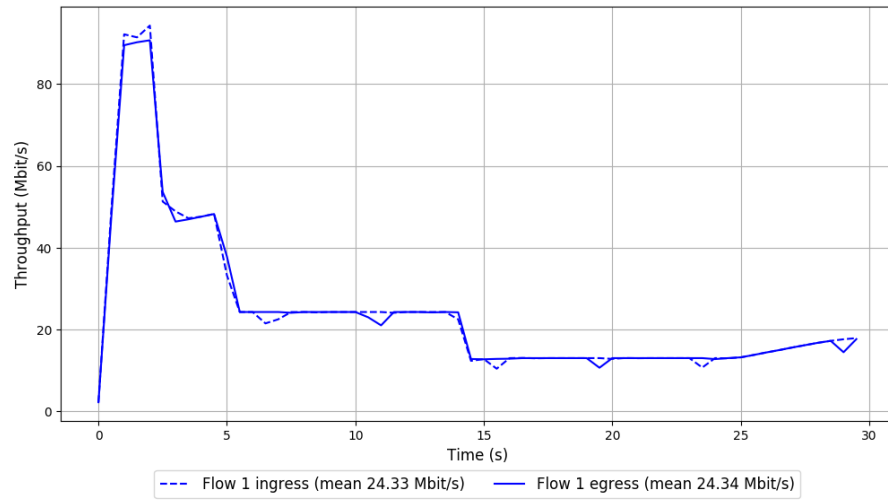
-- Flow 1:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 51.222 ms

Loss rate: 0.27%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

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

End at: 2018-01-16 16:39:44

Below is generated by plot.py at 2018-01-16 20:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 51.821 ms

Loss rate: 0.41%

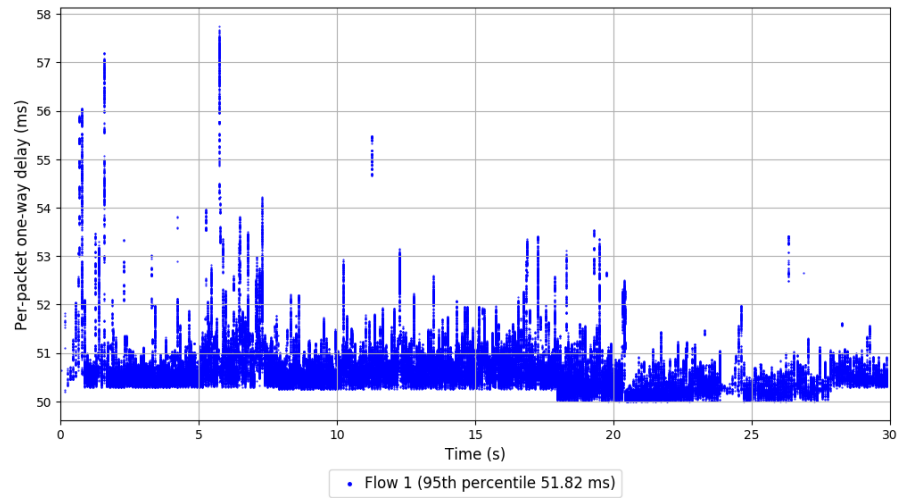
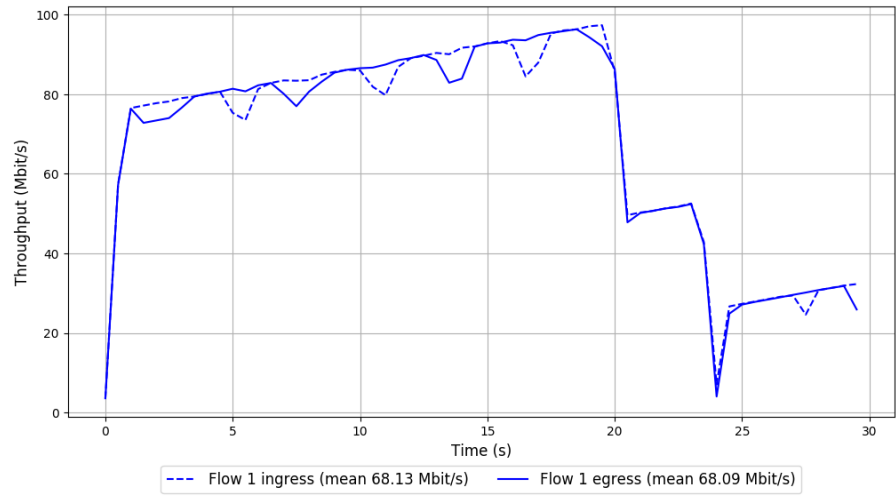
-- Flow 1:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 51.821 ms

Loss rate: 0.41%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 16:54:12

End at: 2018-01-16 16:54:42

Below is generated by plot.py at 2018-01-16 20:03:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.95 Mbit/s

95th percentile per-packet one-way delay: 51.437 ms

Loss rate: 0.23%

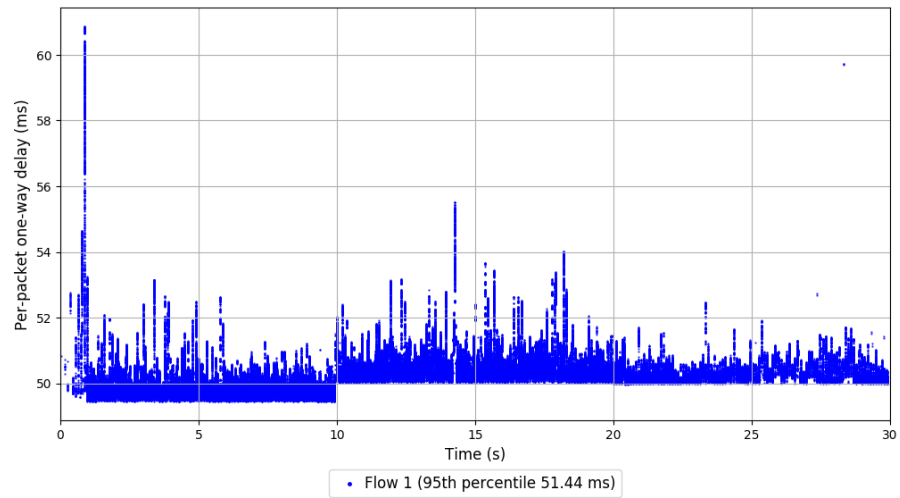
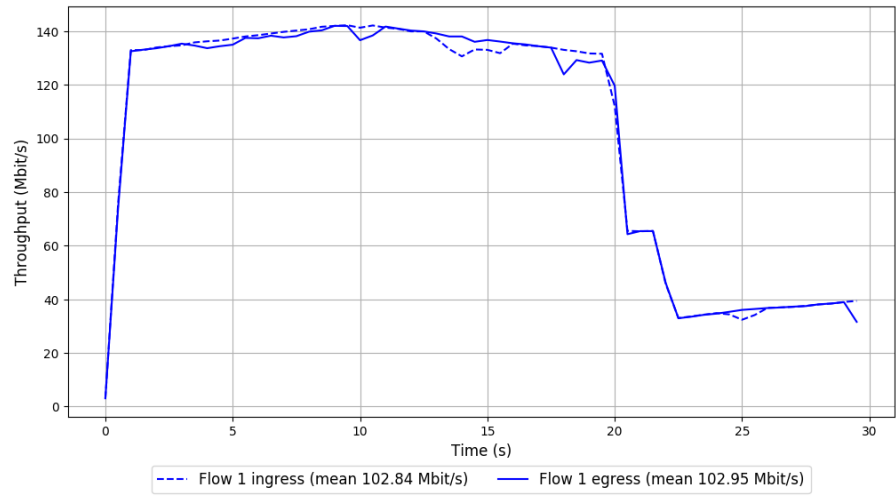
-- Flow 1:

Average throughput: 102.95 Mbit/s

95th percentile per-packet one-way delay: 51.437 ms

Loss rate: 0.23%

Run 10: Report of TCP Vegas — Data Link

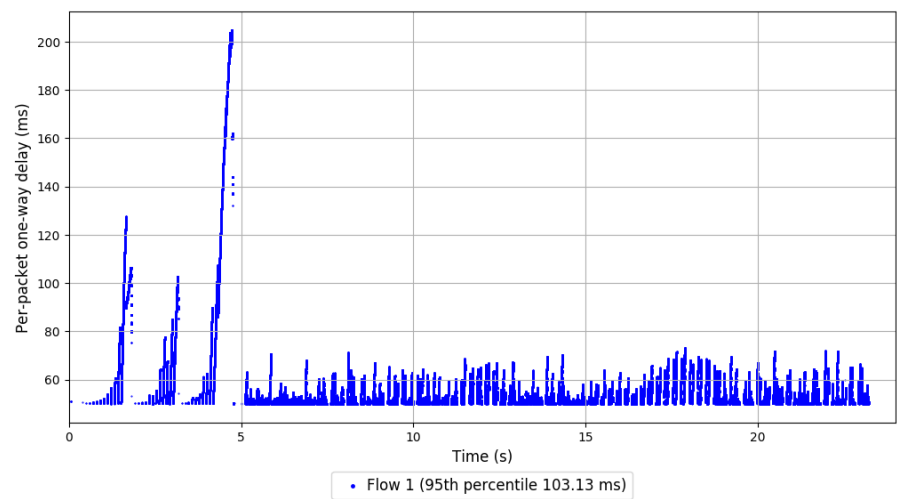
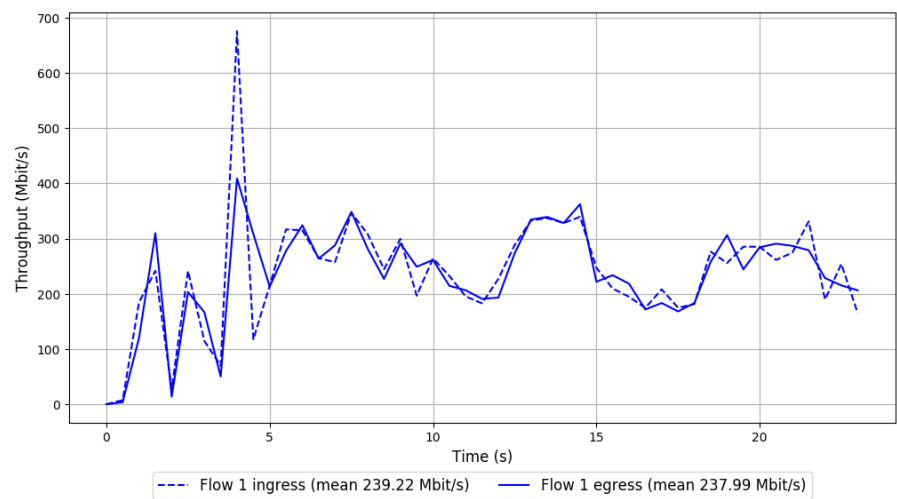


Run 1: Statistics of Verus

Start at: 2018-01-16 14:45:17

End at: 2018-01-16 14:45:47

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 14:59:51

End at: 2018-01-16 15:00:21

Below is generated by plot.py at 2018-01-16 20:03:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.20 Mbit/s

95th percentile per-packet one-way delay: 162.191 ms

Loss rate: 1.29%

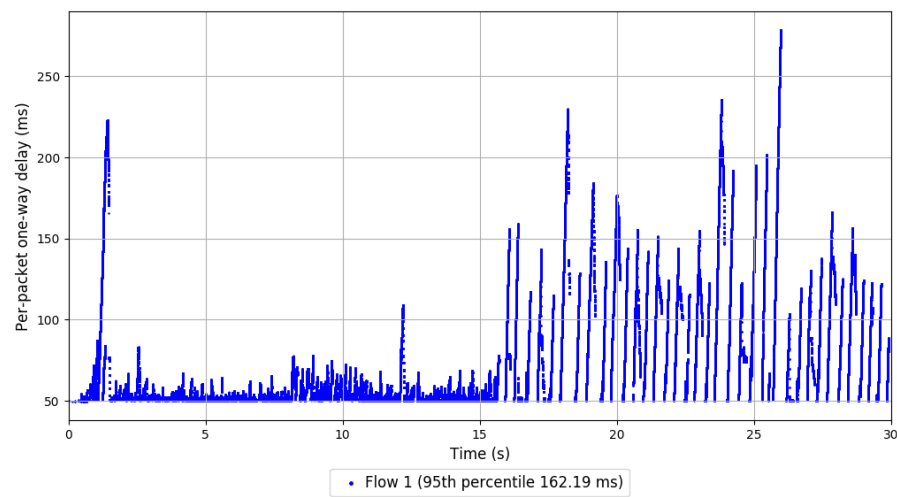
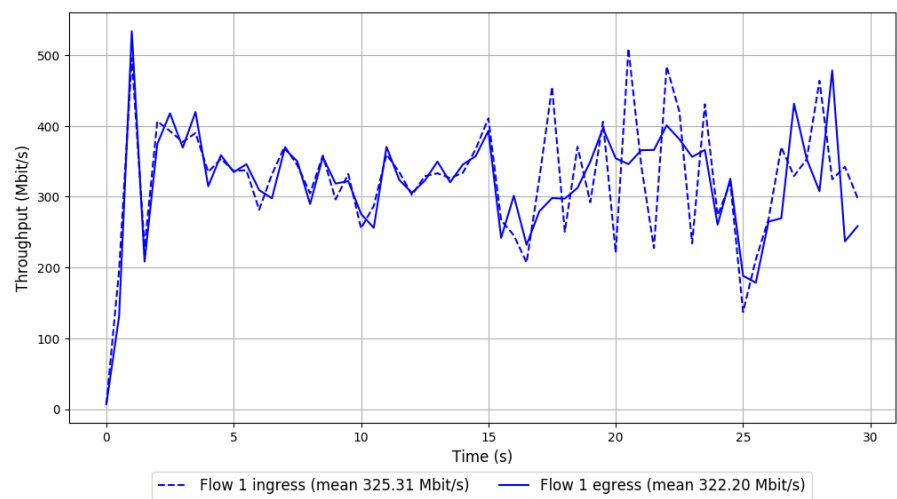
-- Flow 1:

Average throughput: 322.20 Mbit/s

95th percentile per-packet one-way delay: 162.191 ms

Loss rate: 1.29%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 15:14:28

End at: 2018-01-16 15:14:58

Below is generated by plot.py at 2018-01-16 20:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.04 Mbit/s

95th percentile per-packet one-way delay: 84.544 ms

Loss rate: 0.99%

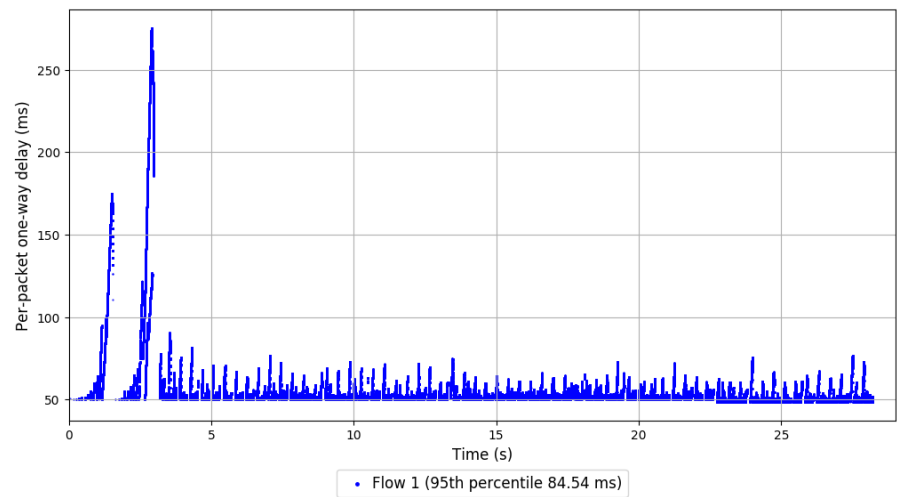
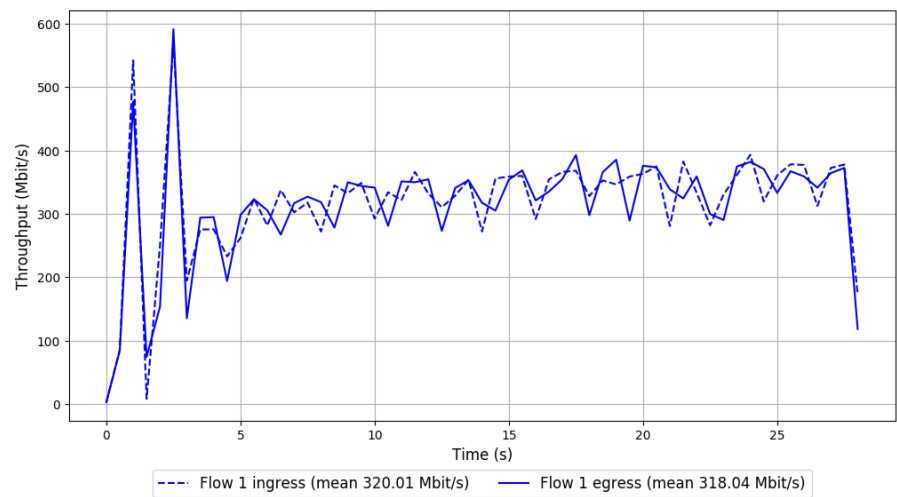
-- Flow 1:

Average throughput: 318.04 Mbit/s

95th percentile per-packet one-way delay: 84.544 ms

Loss rate: 0.99%

Run 3: Report of Verus — Data Link

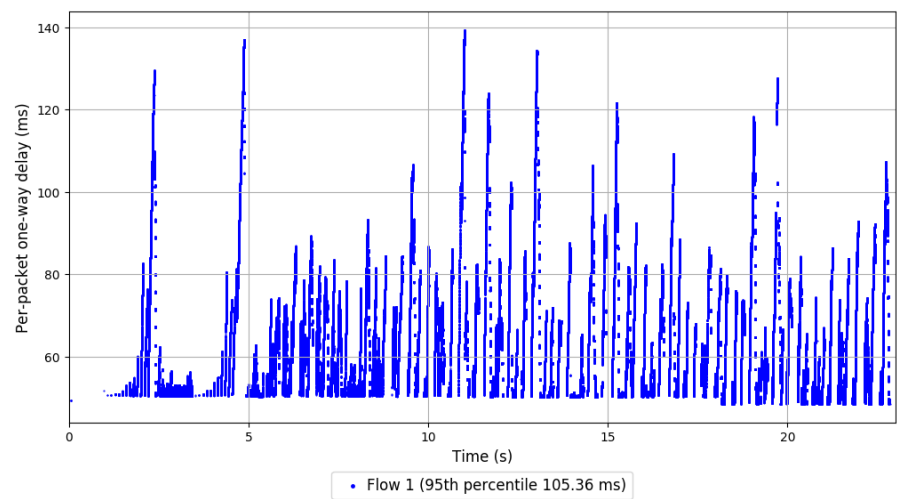
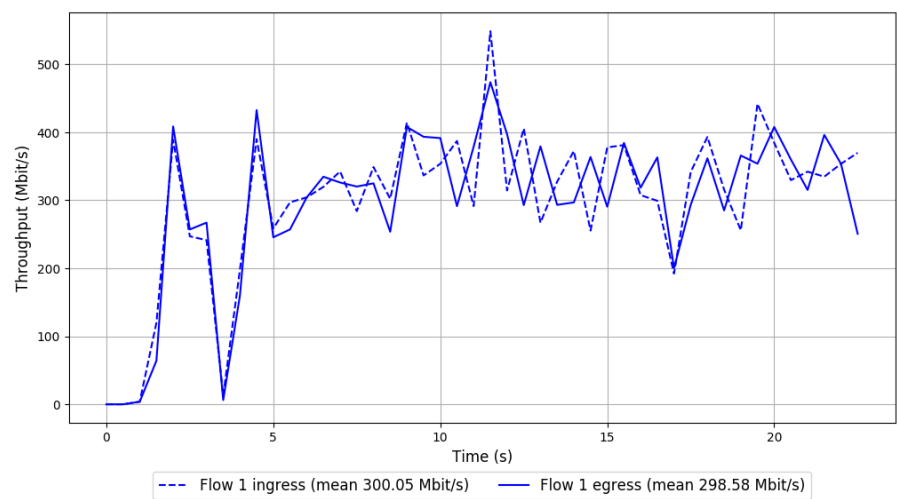


Run 4: Statistics of Verus

Start at: 2018-01-16 15:29:14

End at: 2018-01-16 15:29:44

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 15:43:47

End at: 2018-01-16 15:44:17

Below is generated by plot.py at 2018-01-16 20:06:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.33 Mbit/s

95th percentile per-packet one-way delay: 176.435 ms

Loss rate: 1.24%

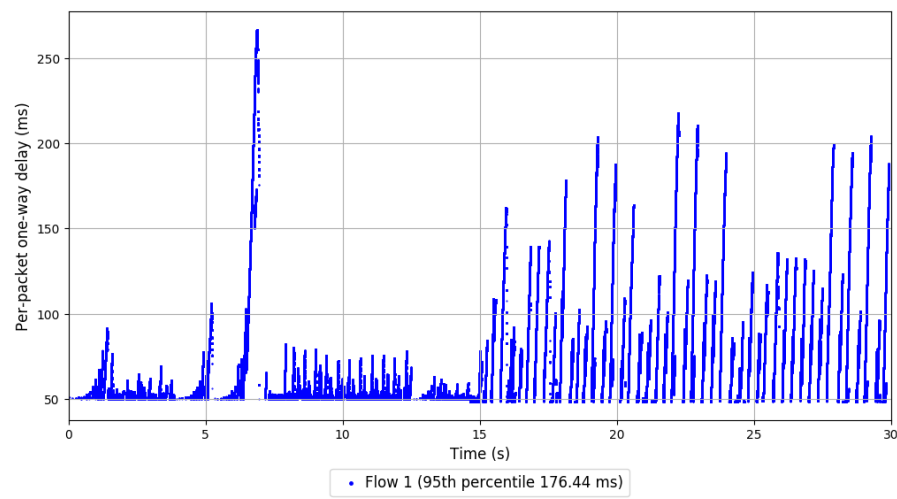
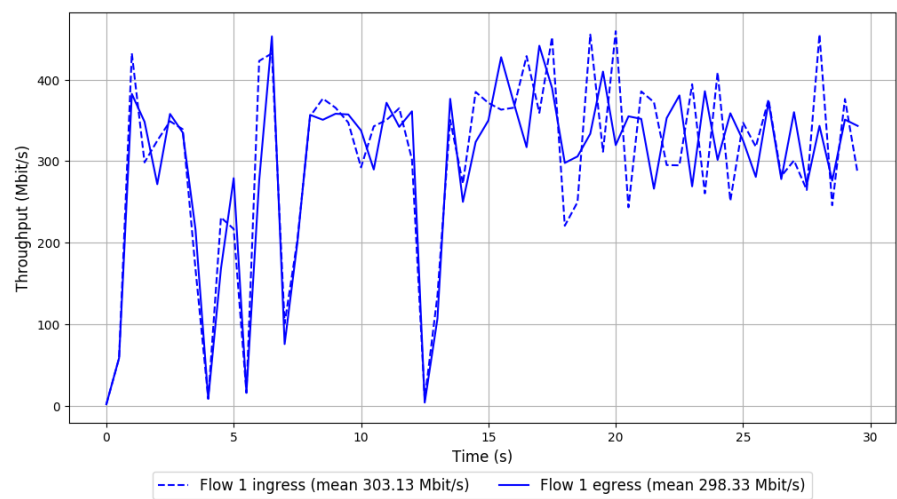
-- Flow 1:

Average throughput: 298.33 Mbit/s

95th percentile per-packet one-way delay: 176.435 ms

Loss rate: 1.24%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 15:58:17

End at: 2018-01-16 15:58:47

Below is generated by plot.py at 2018-01-16 20:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.62 Mbit/s

95th percentile per-packet one-way delay: 76.081 ms

Loss rate: 1.06%

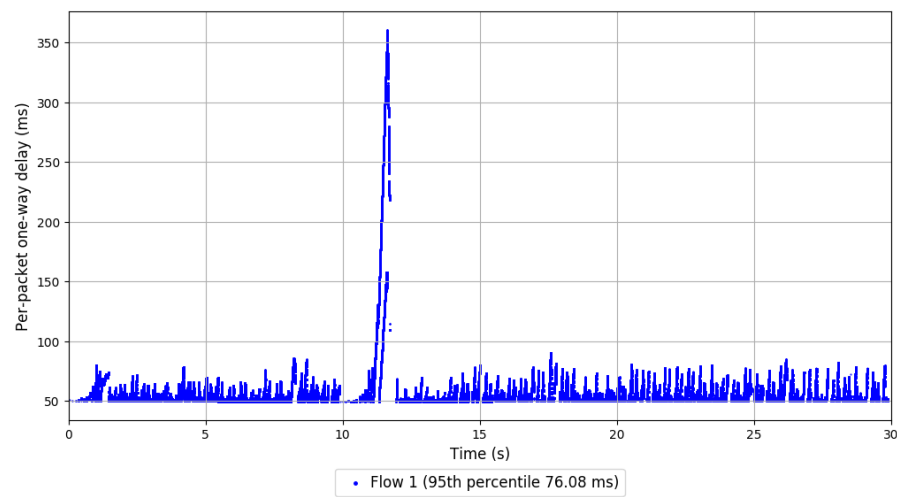
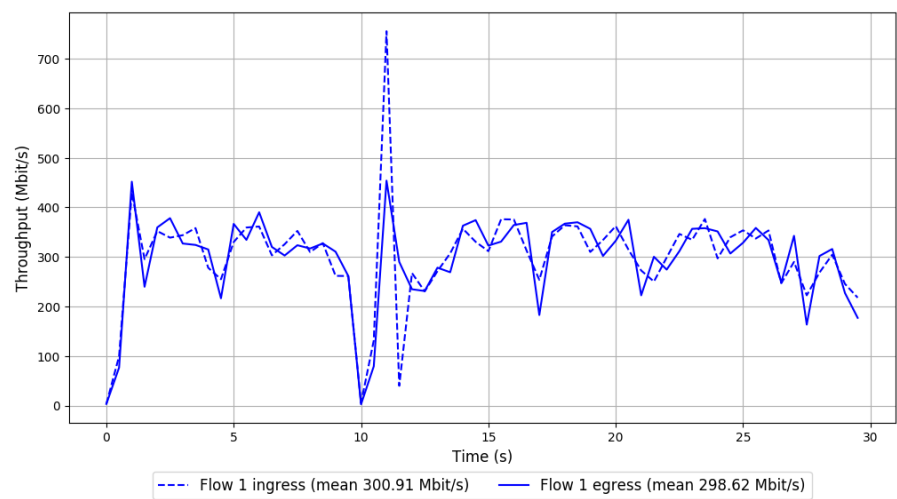
-- Flow 1:

Average throughput: 298.62 Mbit/s

95th percentile per-packet one-way delay: 76.081 ms

Loss rate: 1.06%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 16:12:57

End at: 2018-01-16 16:13:27

Below is generated by plot.py at 2018-01-16 20:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.36 Mbit/s

95th percentile per-packet one-way delay: 100.755 ms

Loss rate: 0.35%

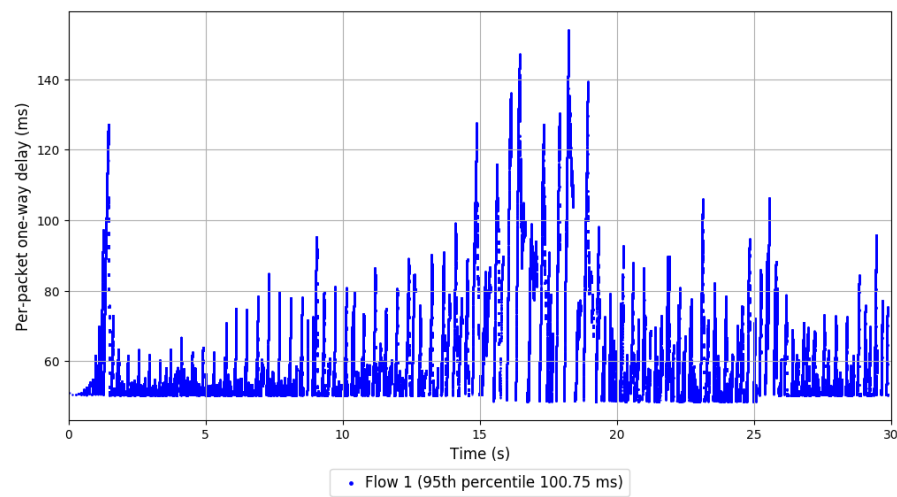
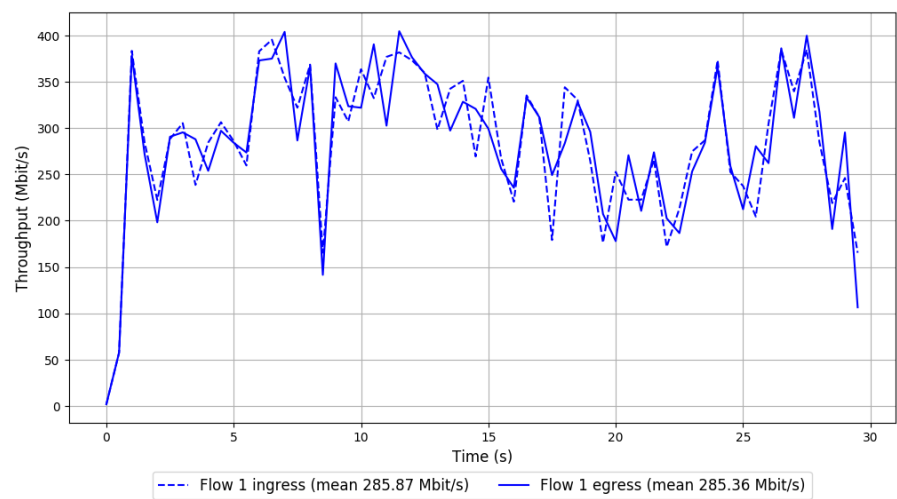
-- Flow 1:

Average throughput: 285.36 Mbit/s

95th percentile per-packet one-way delay: 100.755 ms

Loss rate: 0.35%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 16:27:50

End at: 2018-01-16 16:28:20

Below is generated by plot.py at 2018-01-16 20:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.58 Mbit/s

95th percentile per-packet one-way delay: 83.490 ms

Loss rate: 1.05%

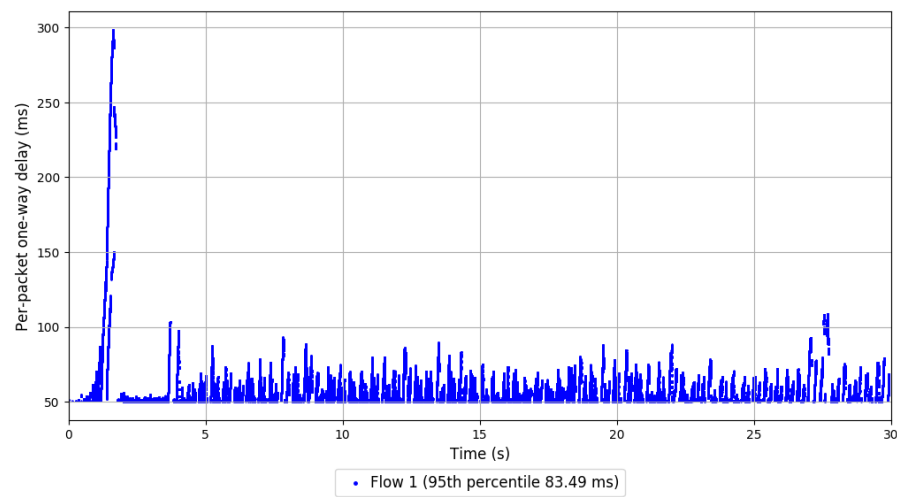
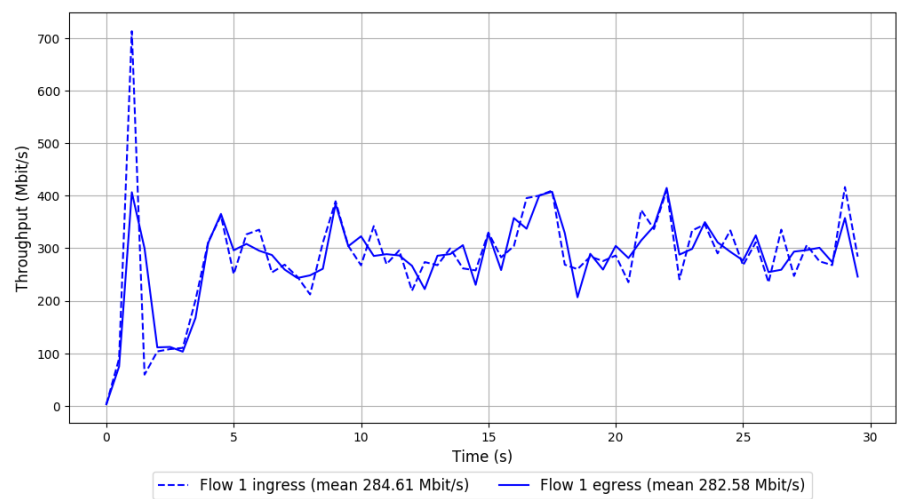
-- Flow 1:

Average throughput: 282.58 Mbit/s

95th percentile per-packet one-way delay: 83.490 ms

Loss rate: 1.05%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-16 16:42:24

End at: 2018-01-16 16:42:54

Below is generated by plot.py at 2018-01-16 20:09:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.71 Mbit/s

95th percentile per-packet one-way delay: 87.222 ms

Loss rate: 1.06%

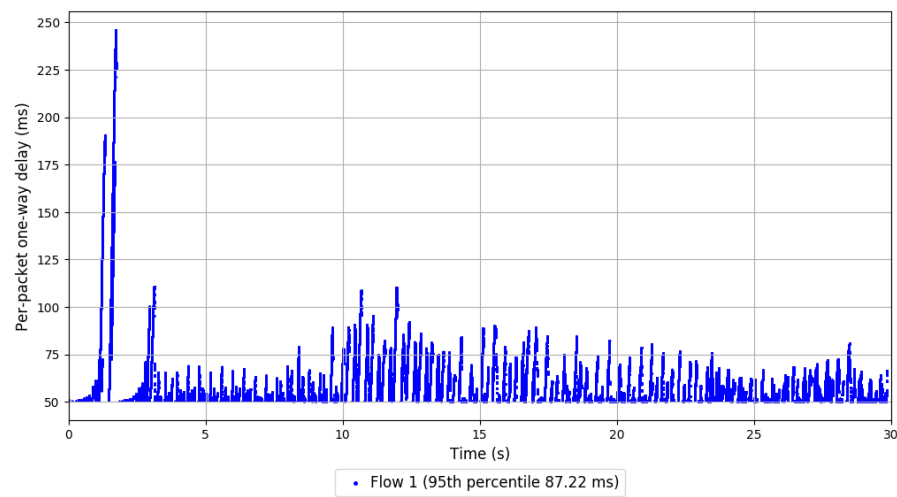
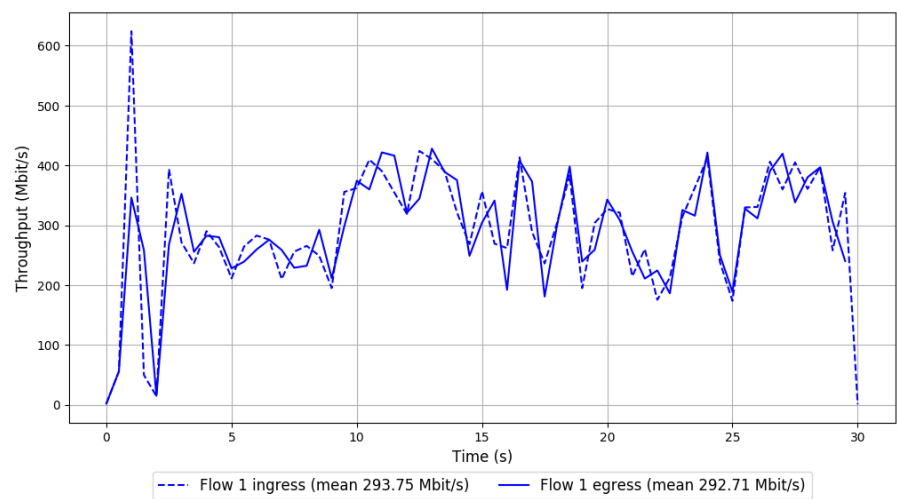
-- Flow 1:

Average throughput: 292.71 Mbit/s

95th percentile per-packet one-way delay: 87.222 ms

Loss rate: 1.06%

Run 9: Report of Verus — Data Link

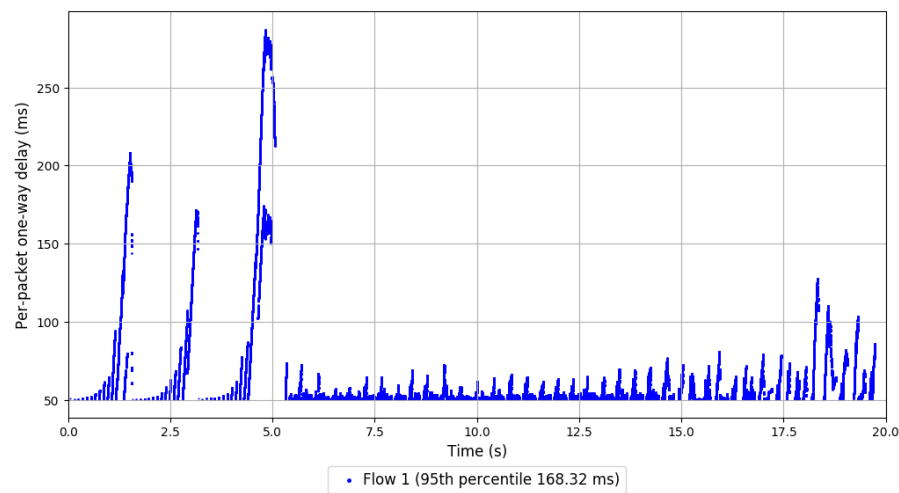
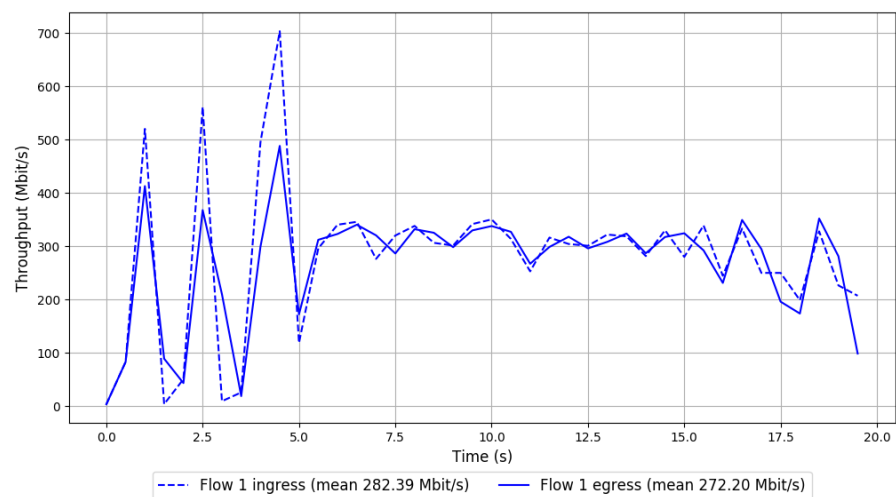


Run 10: Statistics of Verus

Start at: 2018-01-16 16:57:30

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

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-16 14:39:57

End at: 2018-01-16 14:40:27

Below is generated by plot.py at 2018-01-16 20:09:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 0.15%

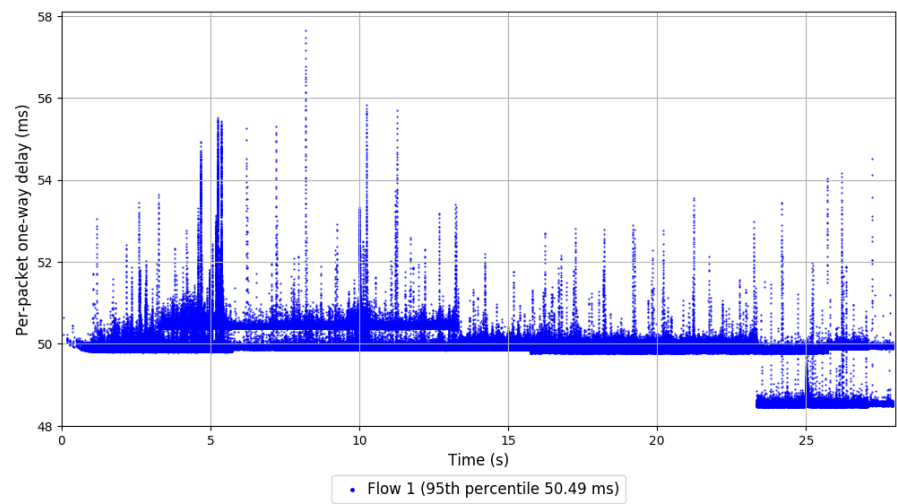
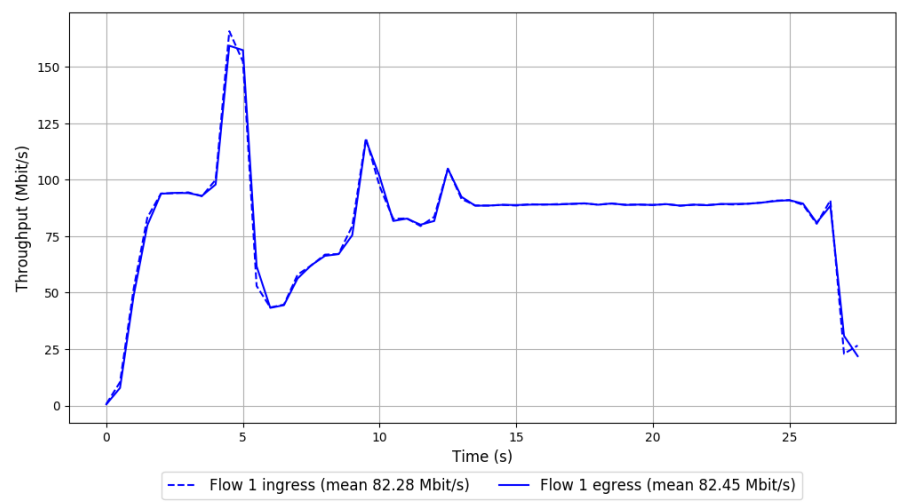
-- Flow 1:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 0.15%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 14:54:46

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

Below is generated by plot.py at 2018-01-16 20:09:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 50.111 ms

Loss rate: 0.13%

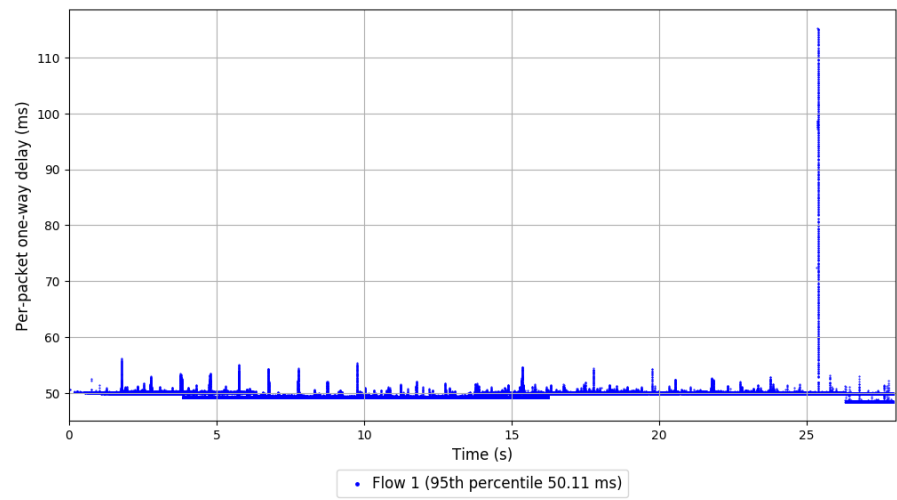
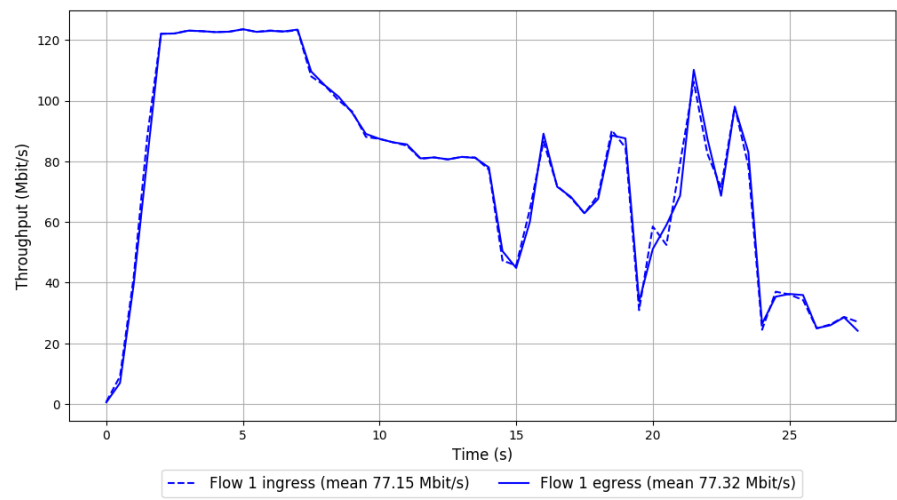
-- Flow 1:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 50.111 ms

Loss rate: 0.13%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

End at: 2018-01-16 15:09:45

Below is generated by plot.py at 2018-01-16 20:09:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.20%

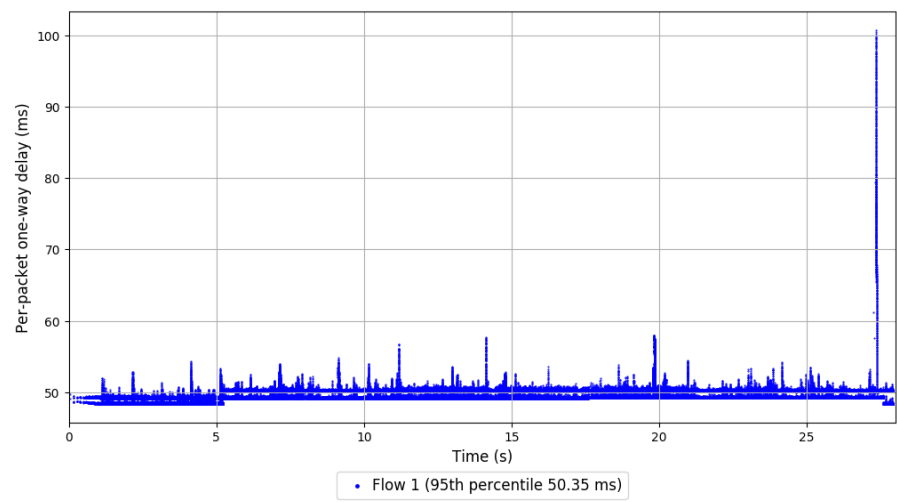
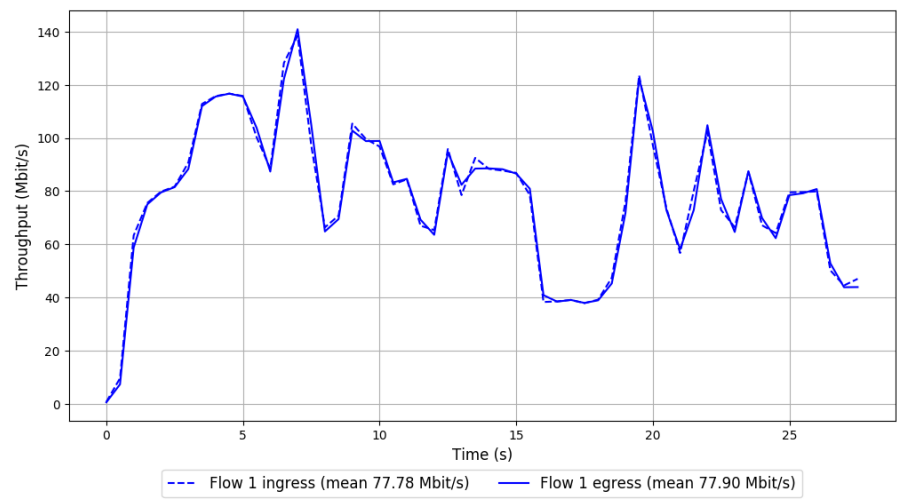
-- Flow 1:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.20%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 15:23:52

End at: 2018-01-16 15:24:22

Below is generated by plot.py at 2018-01-16 20:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.25 Mbit/s

95th percentile per-packet one-way delay: 49.975 ms

Loss rate: 0.34%

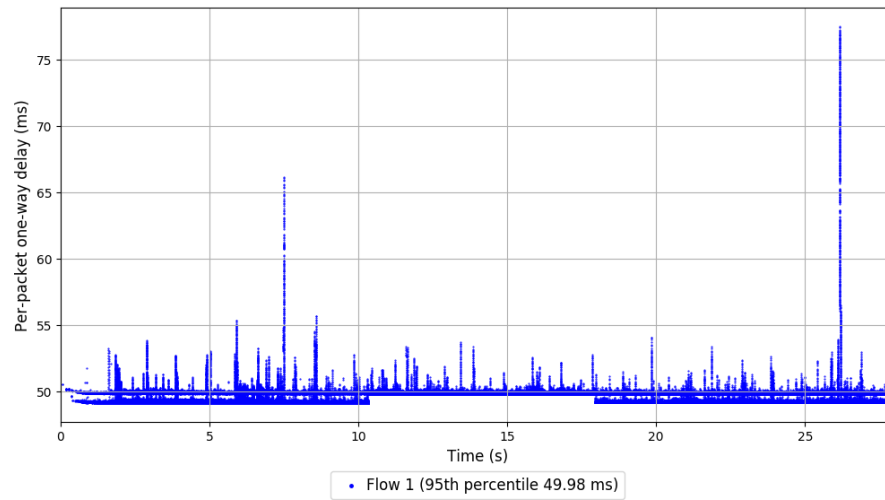
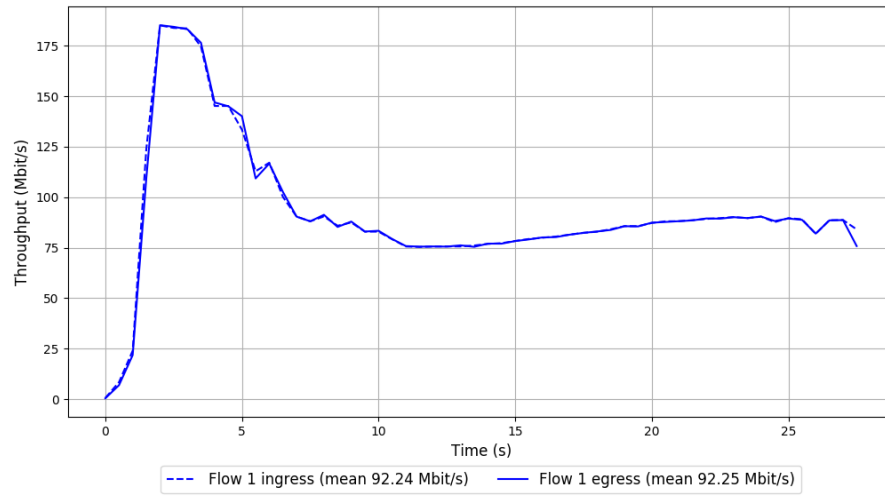
-- Flow 1:

Average throughput: 92.25 Mbit/s

95th percentile per-packet one-way delay: 49.975 ms

Loss rate: 0.34%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-16 15:38:33

End at: 2018-01-16 15:39:03

Below is generated by plot.py at 2018-01-16 20:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 50.594 ms

Loss rate: 0.23%

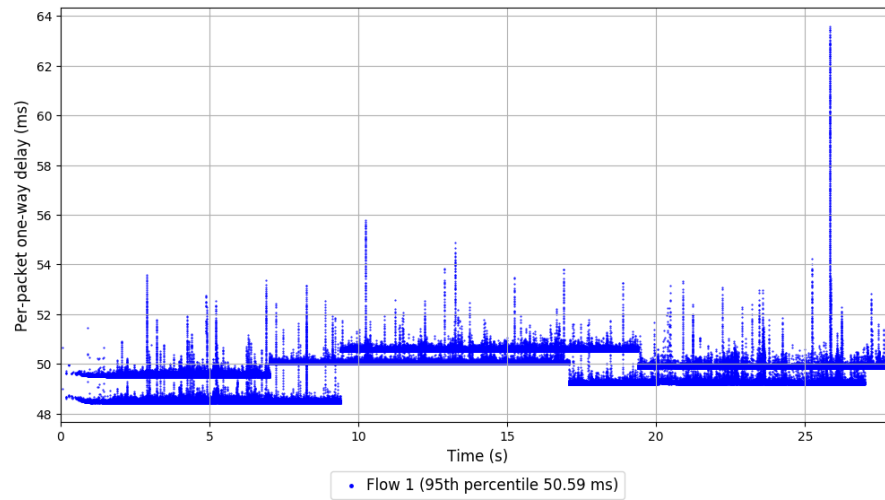
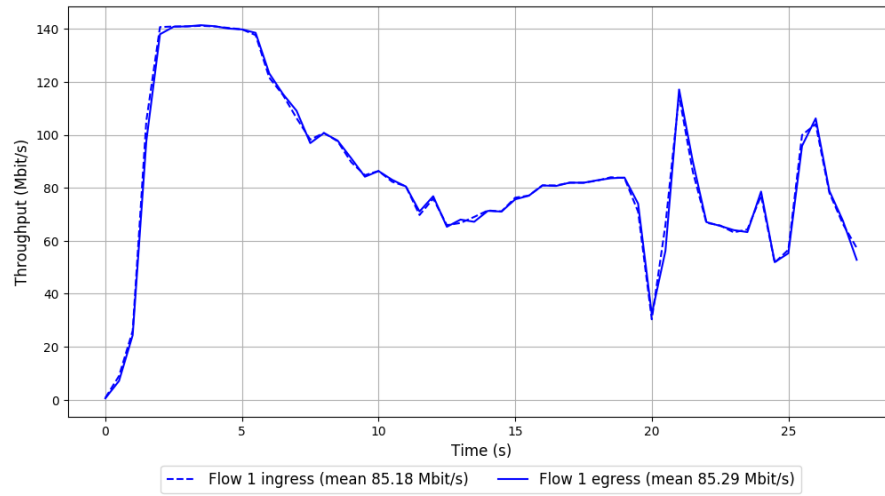
-- Flow 1:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 50.594 ms

Loss rate: 0.23%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

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 20:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 50.113 ms

Loss rate: 0.29%

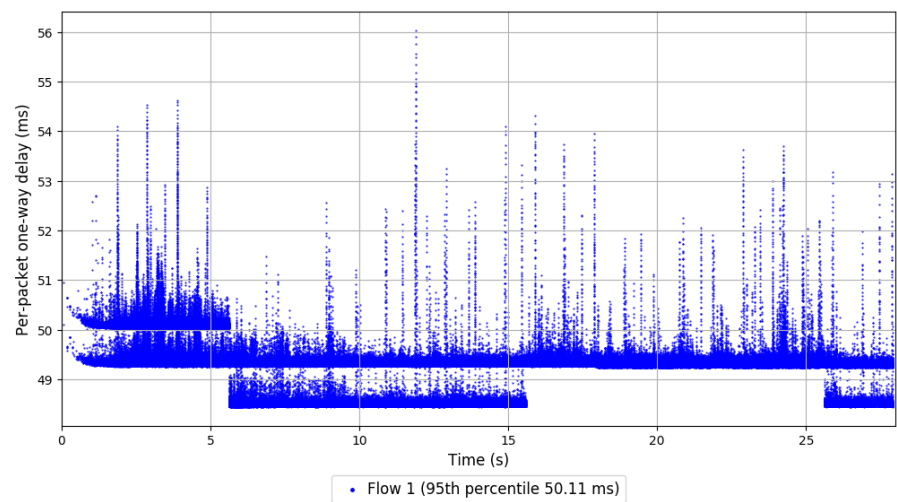
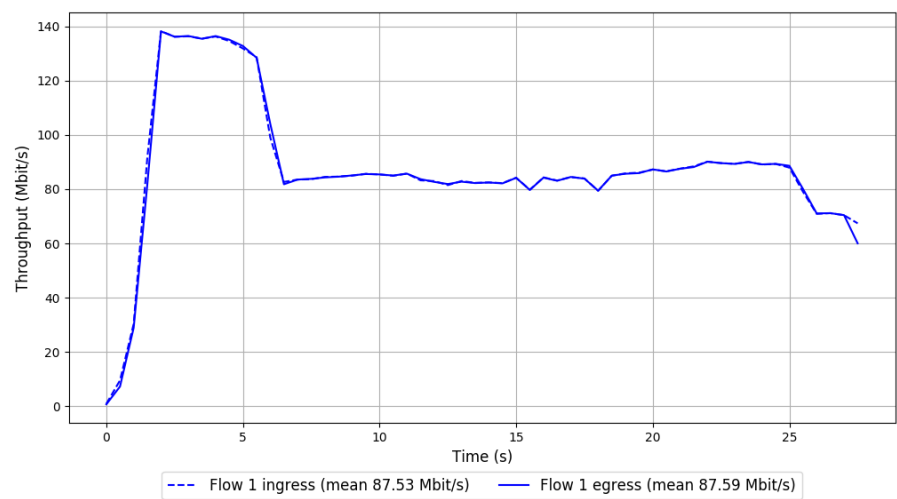
-- Flow 1:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 50.113 ms

Loss rate: 0.29%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-16 16:07:40

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

Below is generated by plot.py at 2018-01-16 20:09:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.65 Mbit/s

95th percentile per-packet one-way delay: 50.427 ms

Loss rate: 0.33%

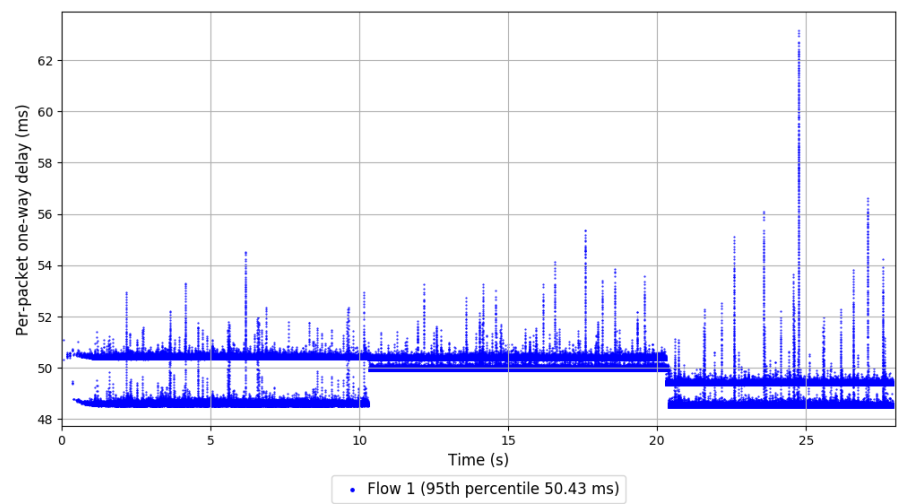
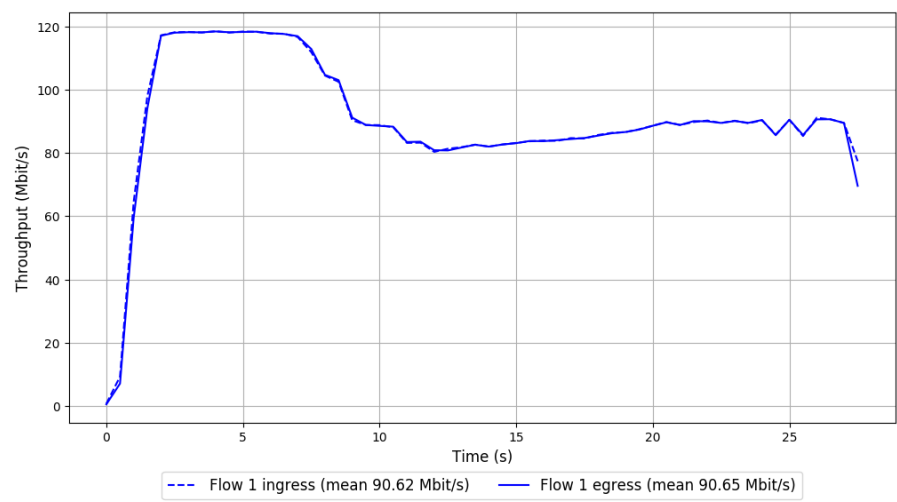
-- Flow 1:

Average throughput: 90.65 Mbit/s

95th percentile per-packet one-way delay: 50.427 ms

Loss rate: 0.33%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-16 16:22:27

End at: 2018-01-16 16:22:57

Below is generated by plot.py at 2018-01-16 20:09:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 50.510 ms

Loss rate: 0.16%

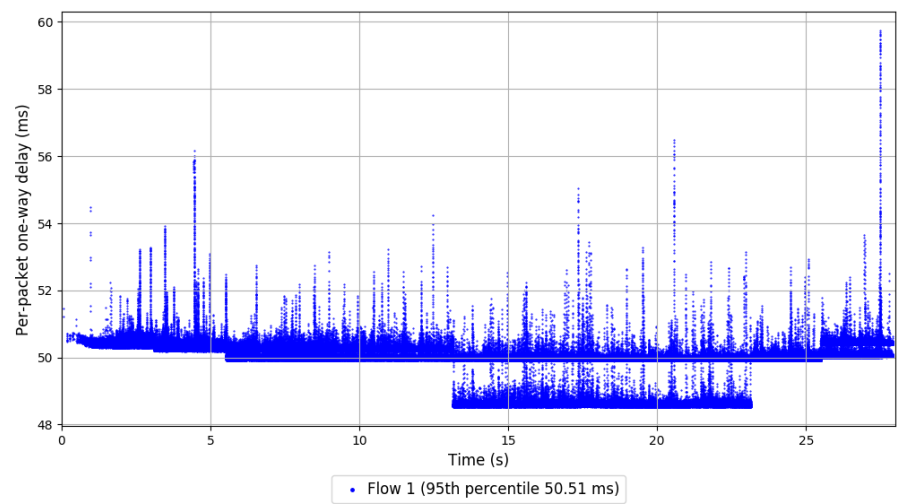
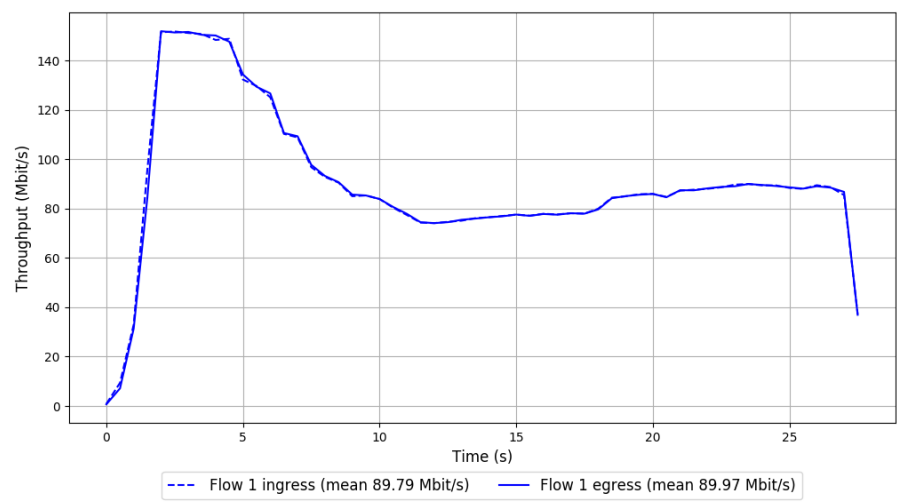
-- Flow 1:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 50.510 ms

Loss rate: 0.16%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

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 20:09:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 50.397 ms

Loss rate: 0.33%

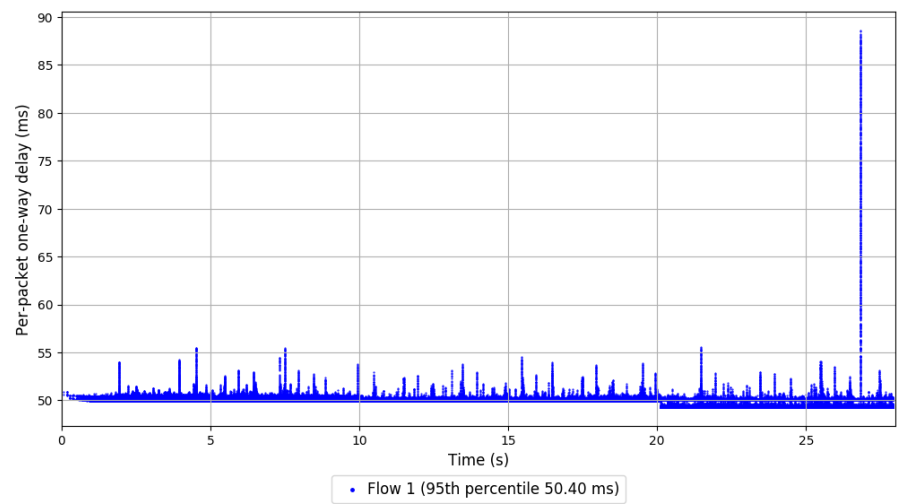
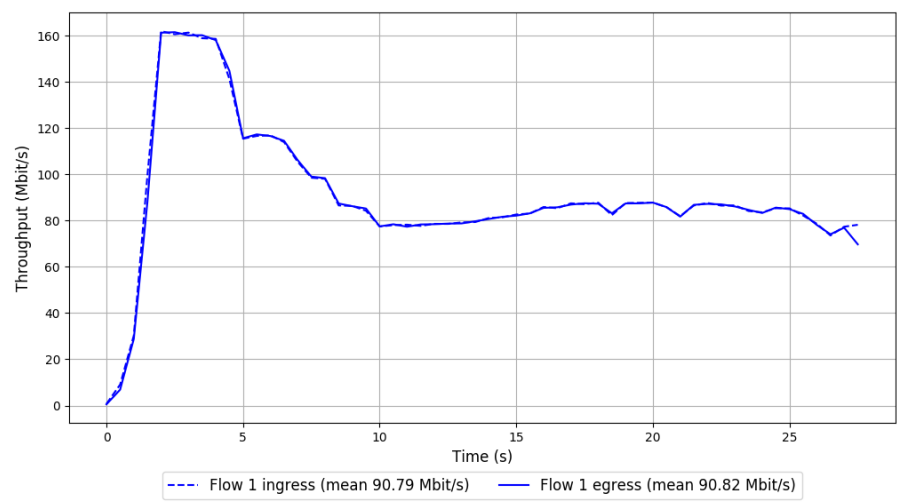
-- Flow 1:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 50.397 ms

Loss rate: 0.33%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 16:52:07

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

Below is generated by plot.py at 2018-01-16 20:10:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.83 Mbit/s

95th percentile per-packet one-way delay: 50.448 ms

Loss rate: 0.35%

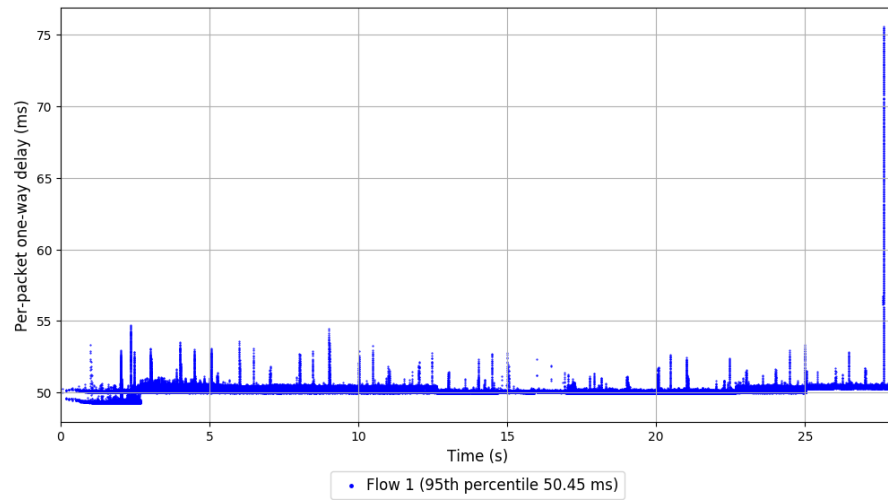
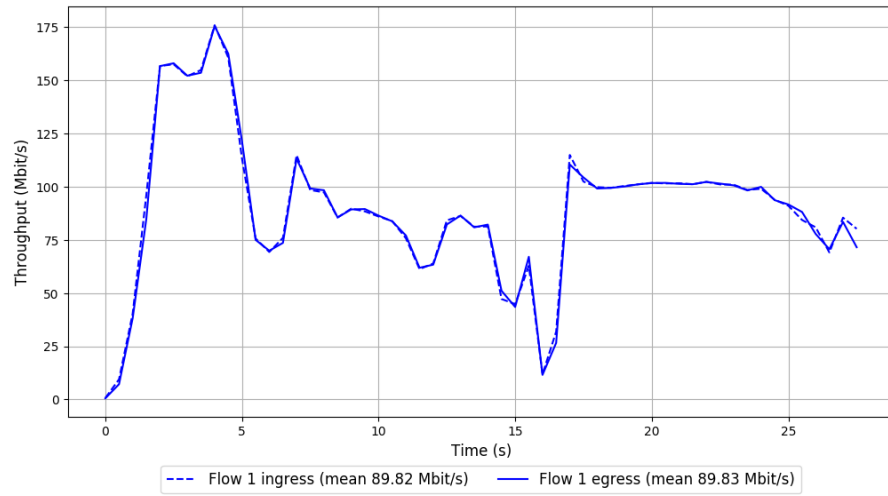
-- Flow 1:

Average throughput: 89.83 Mbit/s

95th percentile per-packet one-way delay: 50.448 ms

Loss rate: 0.35%

Run 10: Report of Copa — Data Link

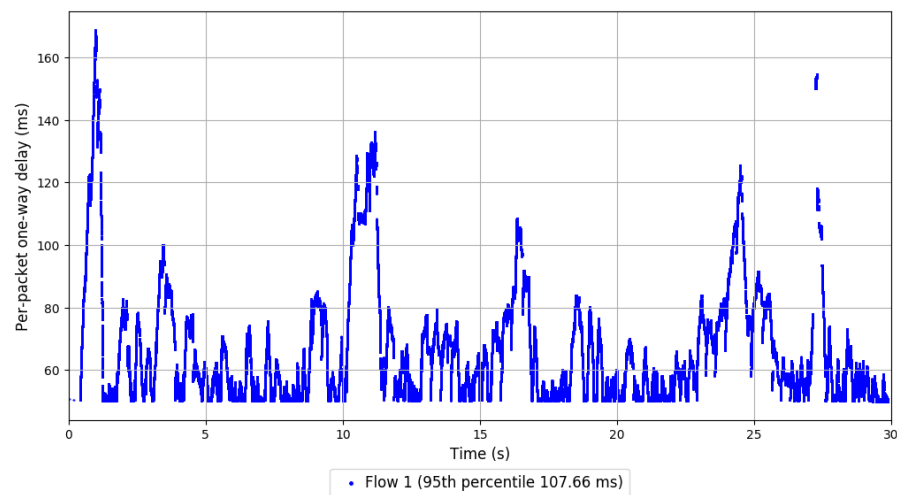
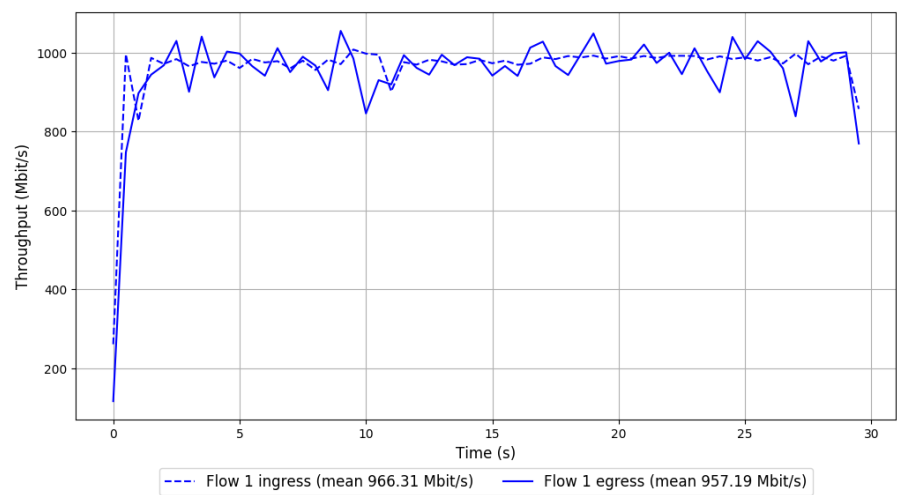


```
Run 1: Statistics of FillP

Start at: 2018-01-16 14:37:55
End at: 2018-01-16 14:38:25

# Below is generated by plot.py at 2018-01-16 20:26:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 957.19 Mbit/s
95th percentile per-packet one-way delay: 107.660 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 957.19 Mbit/s
95th percentile per-packet one-way delay: 107.660 ms
Loss rate: 1.26%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-16 14:52:45

End at: 2018-01-16 14:53:15

Below is generated by plot.py at 2018-01-16 20:26:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 955.15 Mbit/s

95th percentile per-packet one-way delay: 155.249 ms

Loss rate: 1.82%

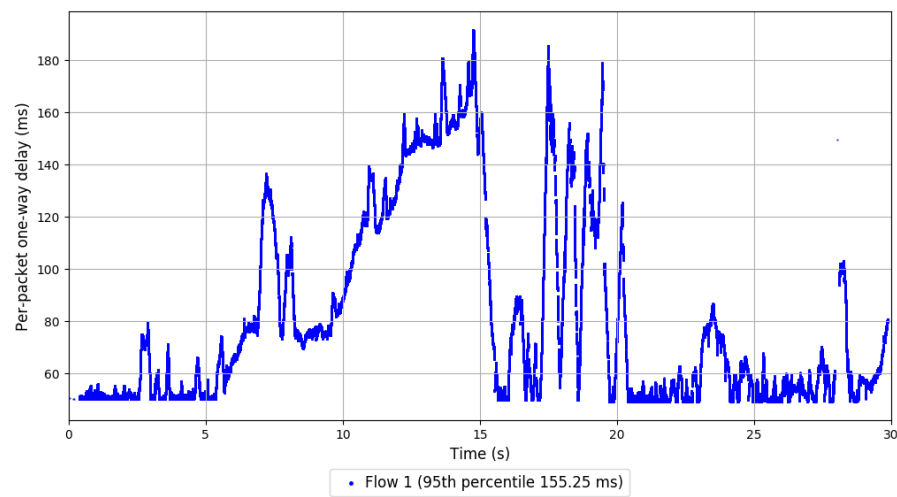
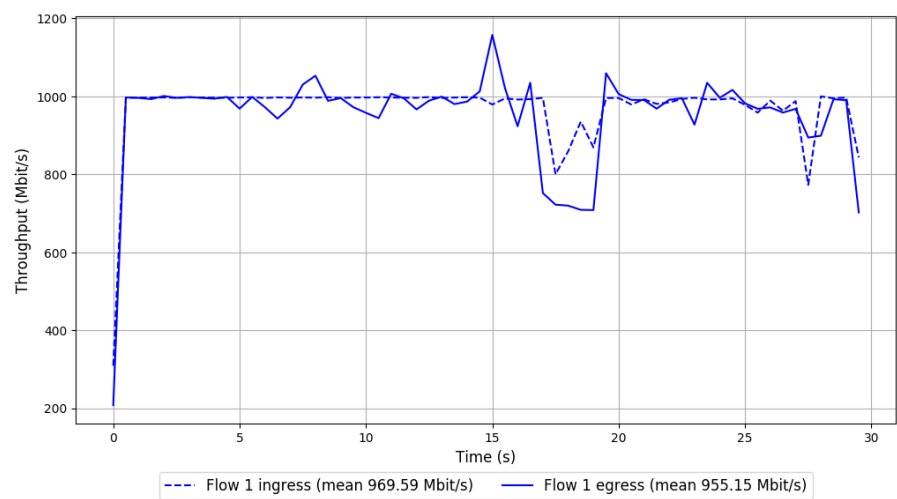
-- Flow 1:

Average throughput: 955.15 Mbit/s

95th percentile per-packet one-way delay: 155.249 ms

Loss rate: 1.82%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 15:07:14

End at: 2018-01-16 15:07:44

Below is generated by plot.py at 2018-01-16 20:26:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 950.85 Mbit/s

95th percentile per-packet one-way delay: 121.701 ms

Loss rate: 2.63%

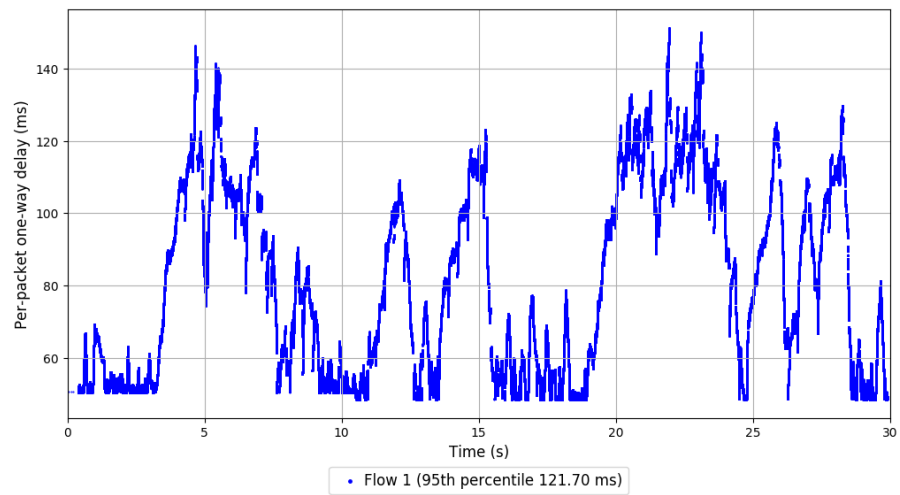
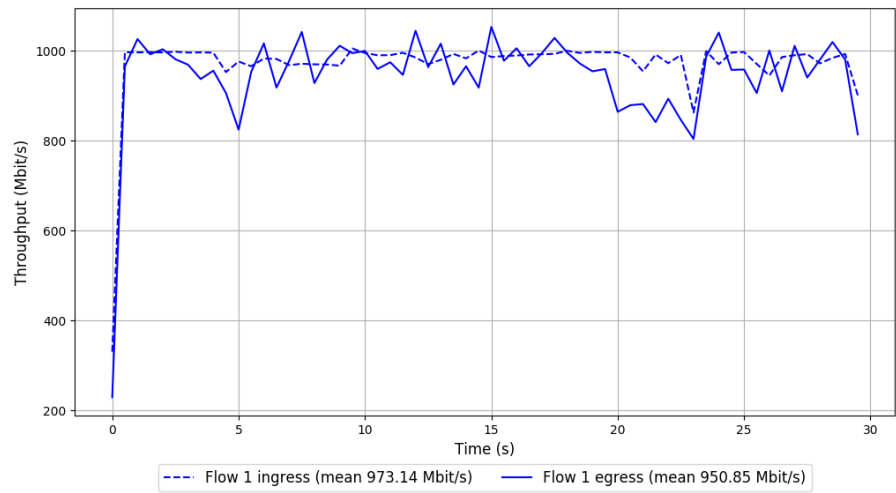
-- Flow 1:

Average throughput: 950.85 Mbit/s

95th percentile per-packet one-way delay: 121.701 ms

Loss rate: 2.63%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 15:21:51

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

Below is generated by plot.py at 2018-01-16 20:26:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 968.26 Mbit/s

95th percentile per-packet one-way delay: 108.904 ms

Loss rate: 0.67%

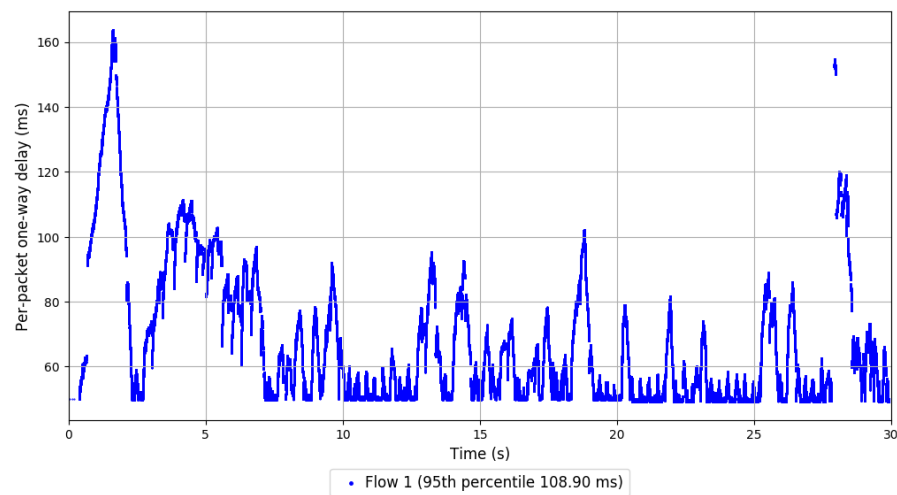
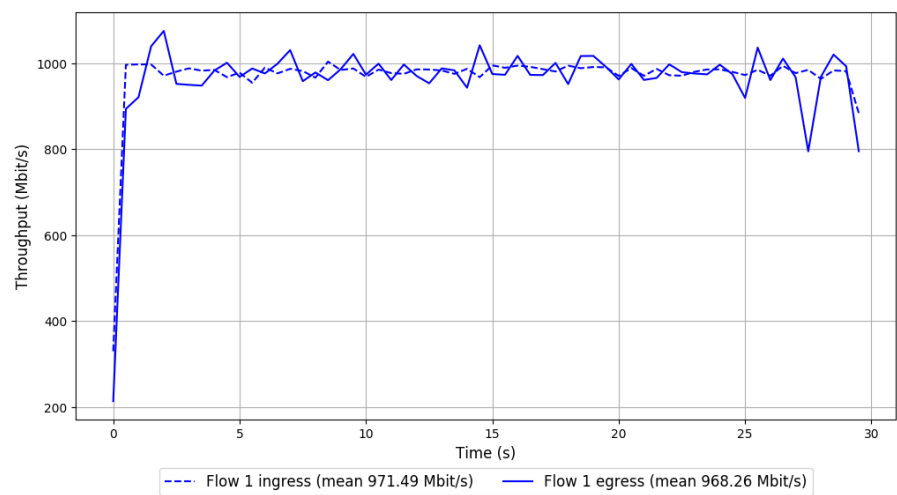
-- Flow 1:

Average throughput: 968.26 Mbit/s

95th percentile per-packet one-way delay: 108.904 ms

Loss rate: 0.67%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 15:36:31

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

Below is generated by plot.py at 2018-01-16 20:26:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 978.22 Mbit/s

95th percentile per-packet one-way delay: 108.658 ms

Loss rate: 0.77%

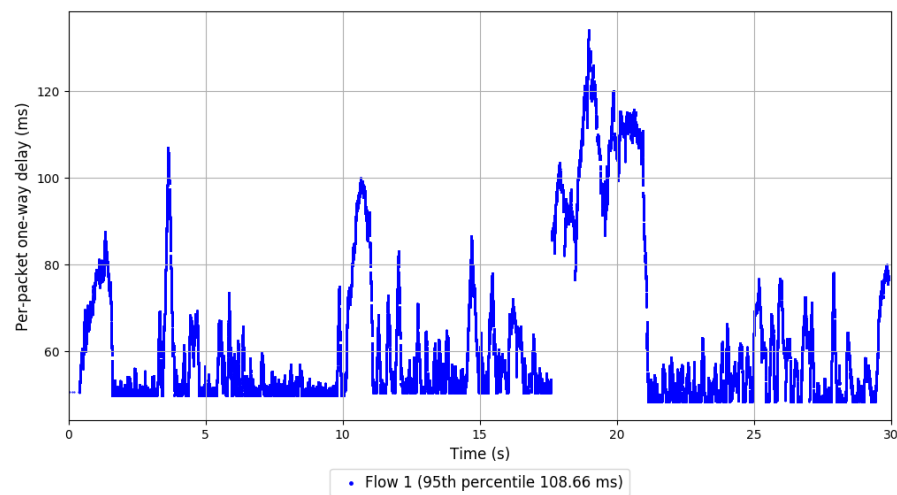
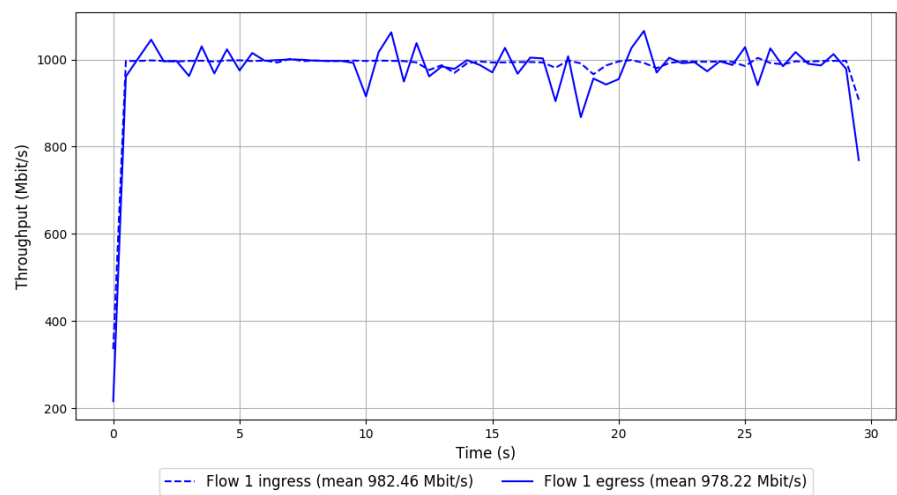
-- Flow 1:

Average throughput: 978.22 Mbit/s

95th percentile per-packet one-way delay: 108.658 ms

Loss rate: 0.77%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 15:51:00

End at: 2018-01-16 15:51:30

Below is generated by plot.py at 2018-01-16 20:26:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 965.39 Mbit/s

95th percentile per-packet one-way delay: 107.772 ms

Loss rate: 1.21%

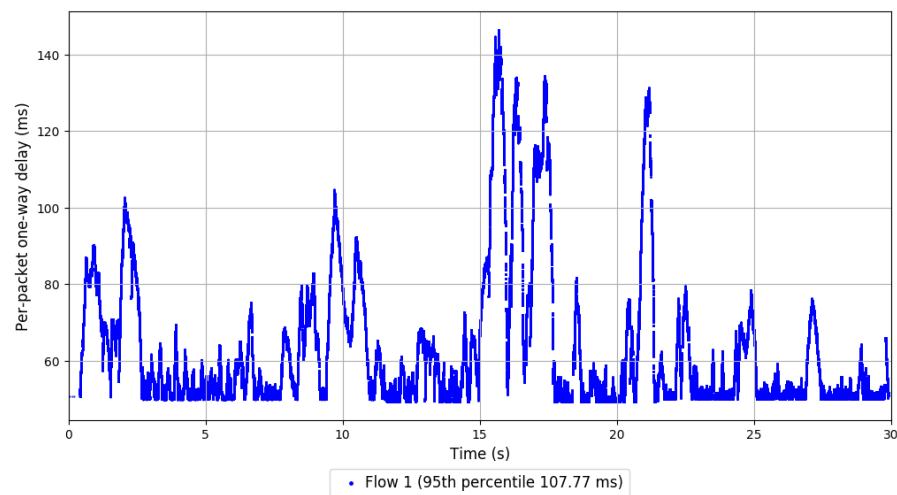
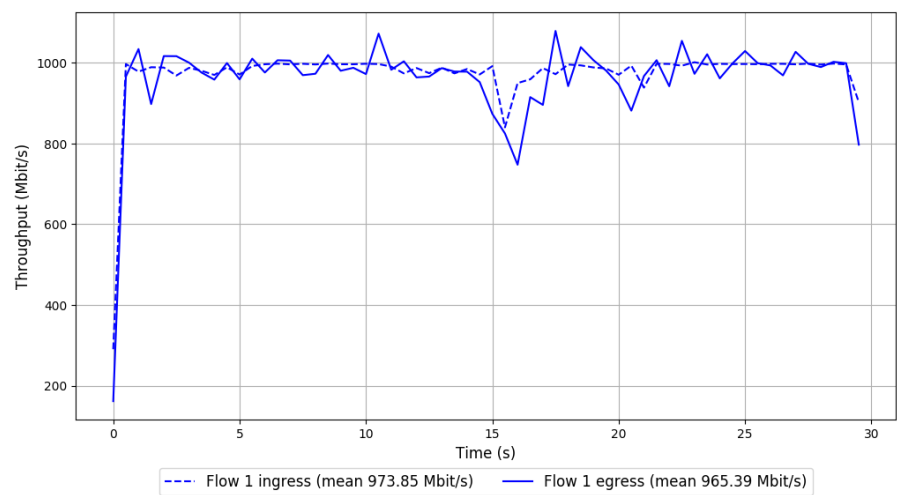
-- Flow 1:

Average throughput: 965.39 Mbit/s

95th percentile per-packet one-way delay: 107.772 ms

Loss rate: 1.21%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 16:05:40

End at: 2018-01-16 16:06:10

Below is generated by plot.py at 2018-01-16 20:26:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.63 Mbit/s

95th percentile per-packet one-way delay: 131.283 ms

Loss rate: 3.89%

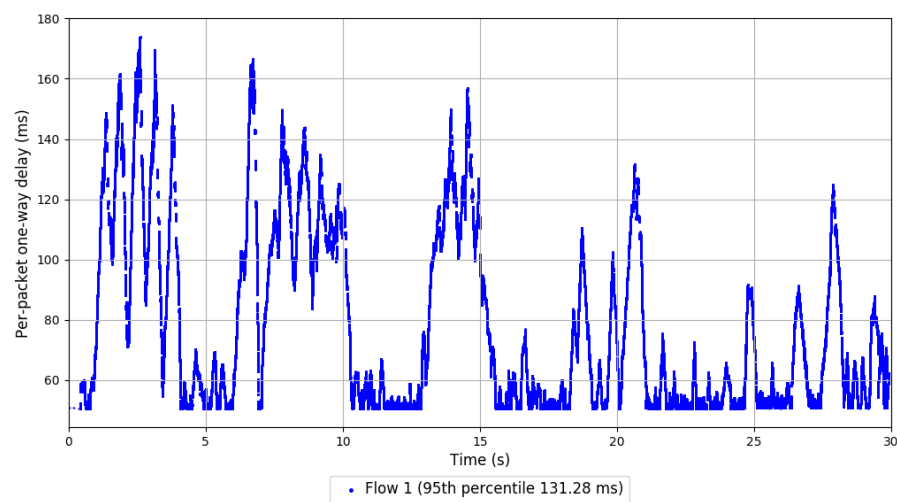
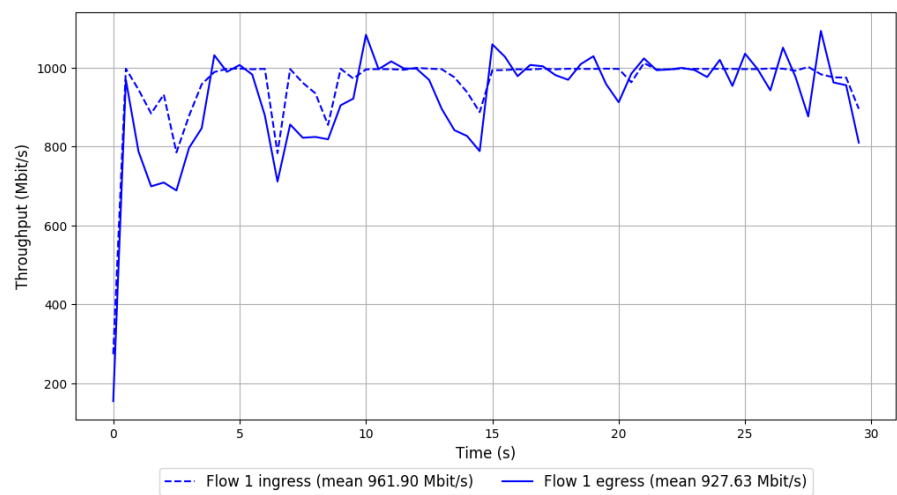
-- Flow 1:

Average throughput: 927.63 Mbit/s

95th percentile per-packet one-way delay: 131.283 ms

Loss rate: 3.89%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-16 16:20:23

End at: 2018-01-16 16:20:53

Below is generated by plot.py at 2018-01-16 20:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 958.28 Mbit/s

95th percentile per-packet one-way delay: 122.060 ms

Loss rate: 1.82%

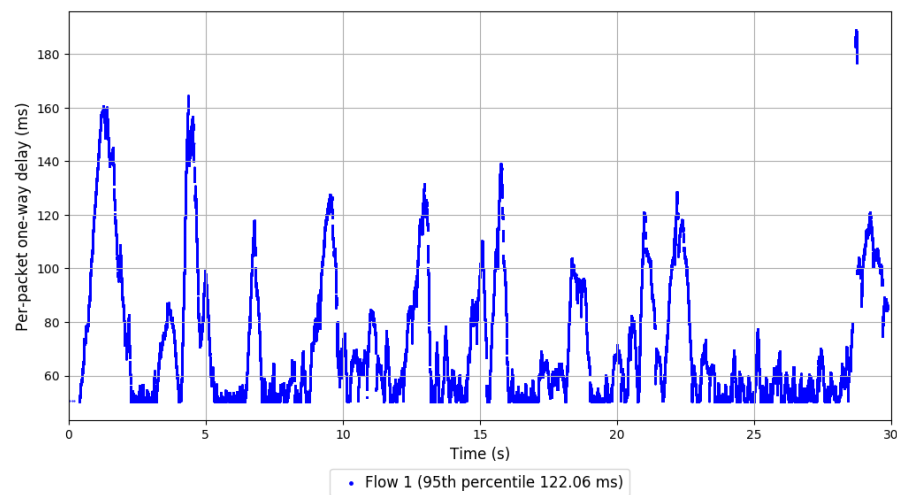
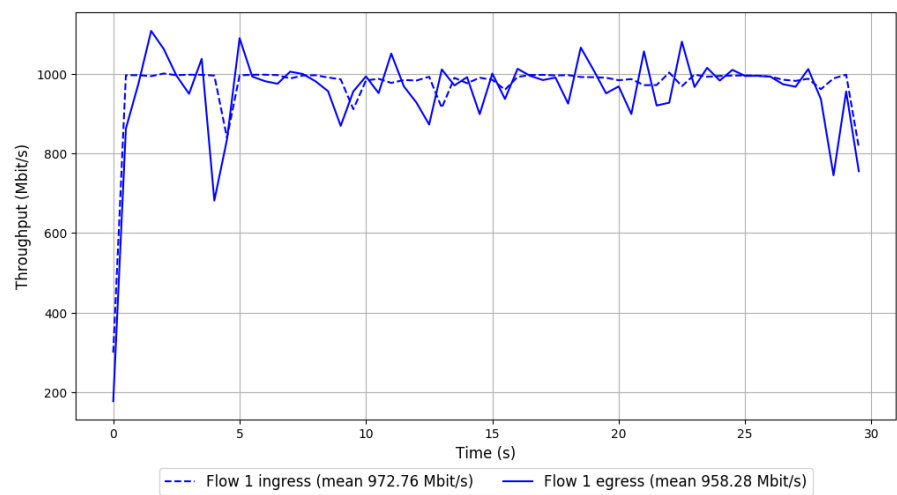
-- Flow 1:

Average throughput: 958.28 Mbit/s

95th percentile per-packet one-way delay: 122.060 ms

Loss rate: 1.82%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

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

End at: 2018-01-16 16:35:38

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 943.57 Mbit/s

95th percentile per-packet one-way delay: 123.787 ms

Loss rate: 2.58%

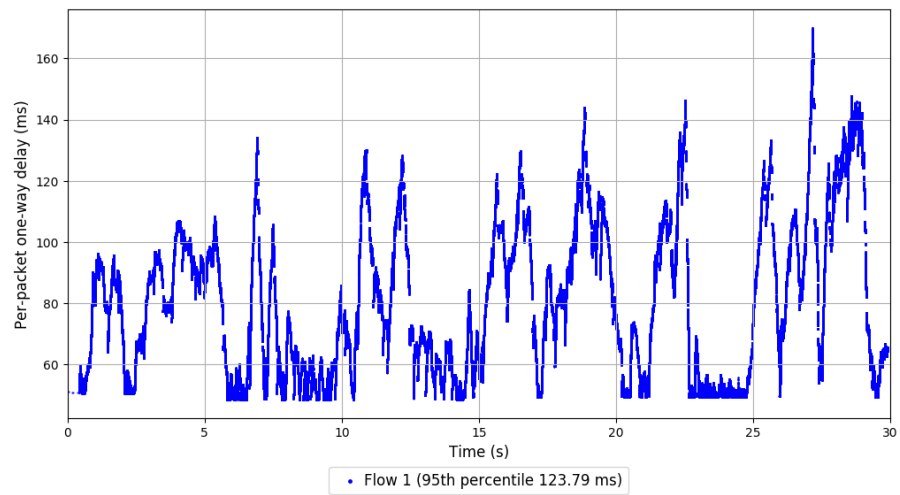
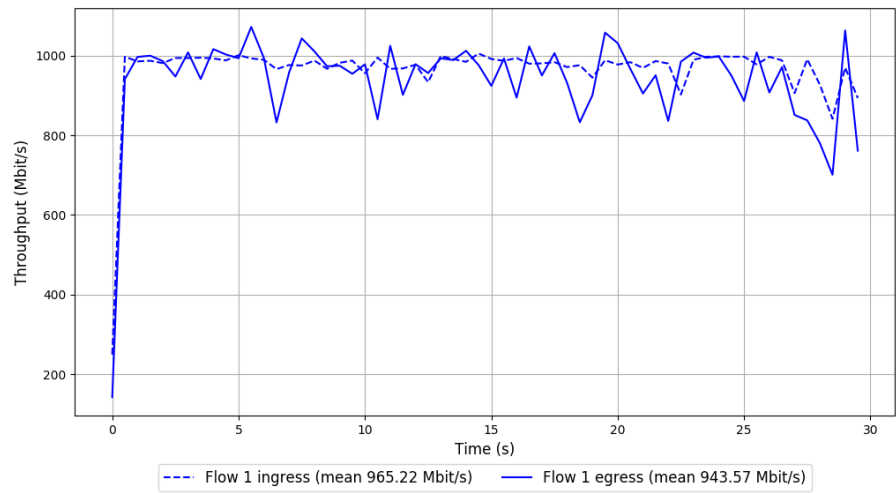
-- Flow 1:

Average throughput: 943.57 Mbit/s

95th percentile per-packet one-way delay: 123.787 ms

Loss rate: 2.58%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-16 16:50:11

End at: 2018-01-16 16:50:41

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 882.80 Mbit/s

95th percentile per-packet one-way delay: 141.148 ms

Loss rate: 6.28%

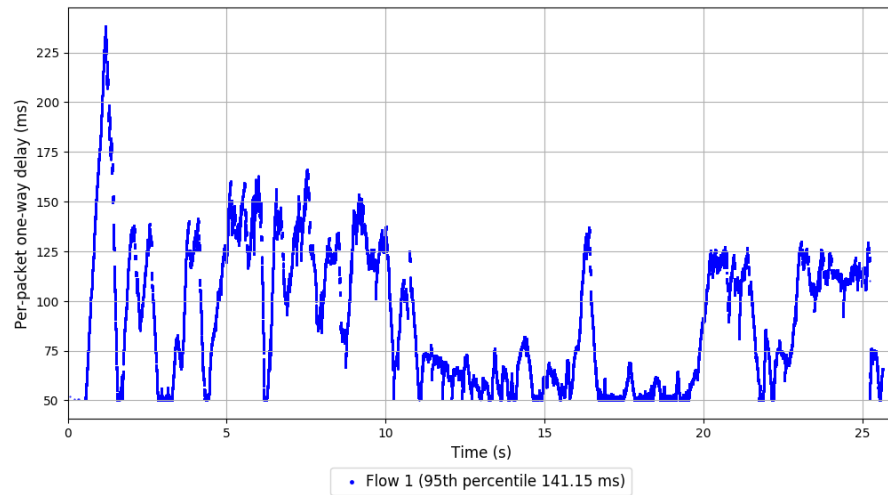
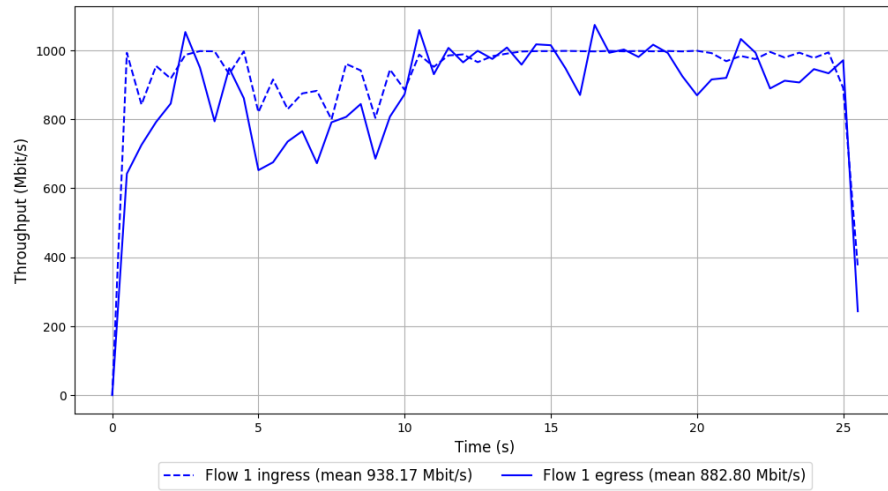
-- Flow 1:

Average throughput: 882.80 Mbit/s

95th percentile per-packet one-way delay: 141.148 ms

Loss rate: 6.28%

Run 10: Report of FillP — Data Link

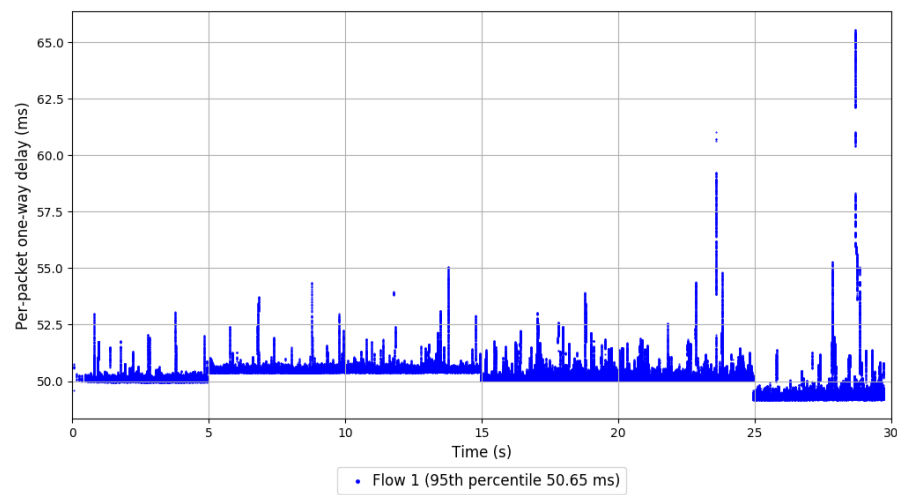
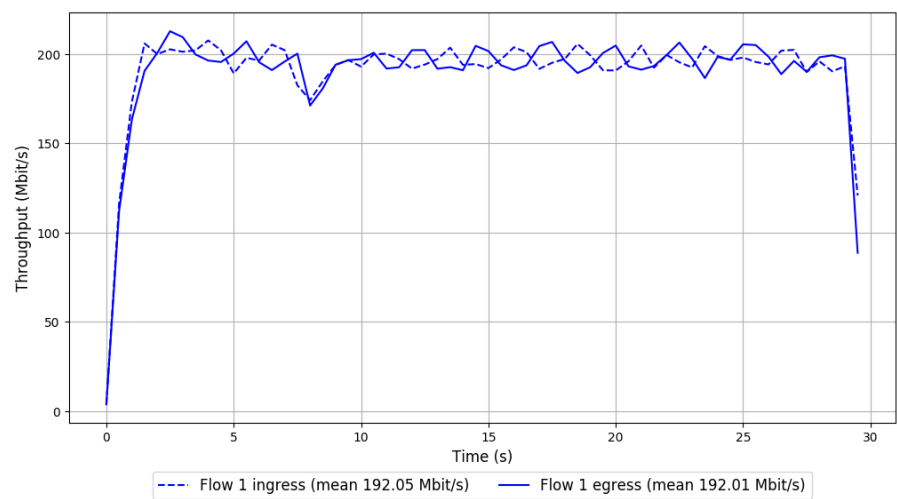


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 14:44:27
End at: 2018-01-16 14:44:57

# Below is generated by plot.py at 2018-01-16 20:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.01 Mbit/s
95th percentile per-packet one-way delay: 50.648 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 192.01 Mbit/s
95th percentile per-packet one-way delay: 50.648 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 14:59:02

End at: 2018-01-16 14:59:32

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.45 Mbit/s

95th percentile per-packet one-way delay: 50.559 ms

Loss rate: 0.62%

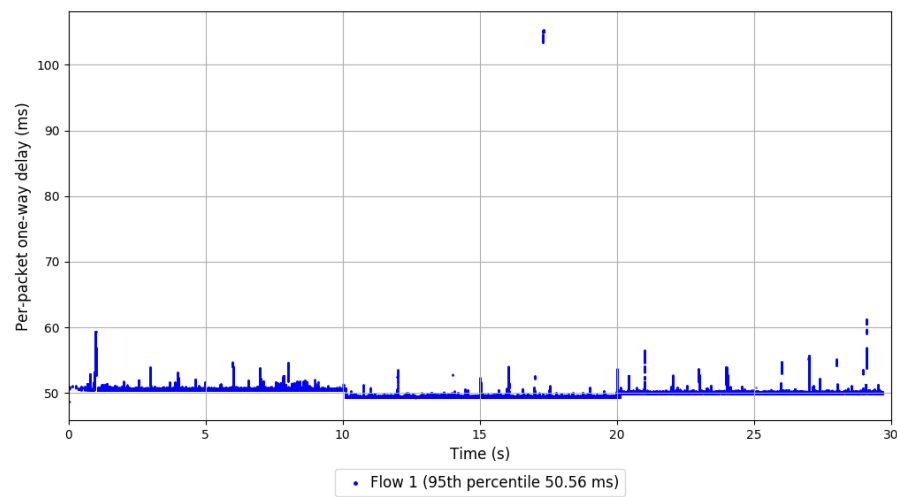
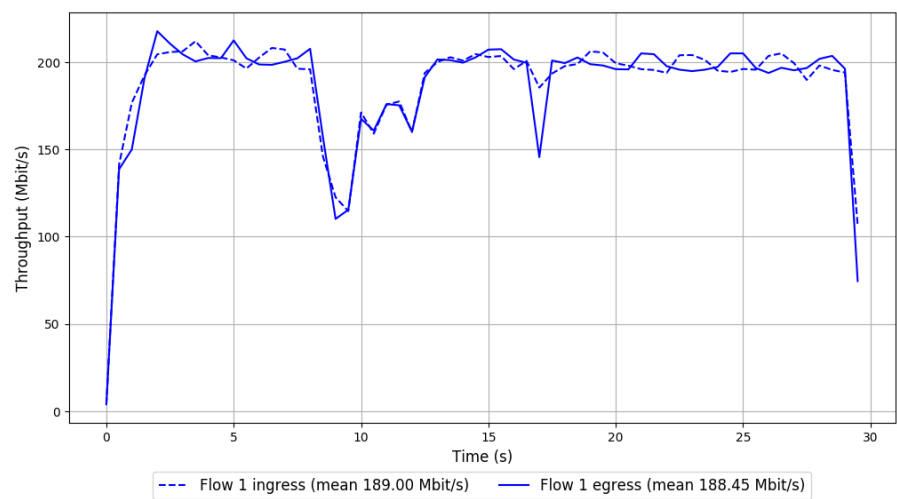
-- Flow 1:

Average throughput: 188.45 Mbit/s

95th percentile per-packet one-way delay: 50.559 ms

Loss rate: 0.62%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 15:13:37

End at: 2018-01-16 15:14:07

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.09 Mbit/s

95th percentile per-packet one-way delay: 51.956 ms

Loss rate: 0.36%

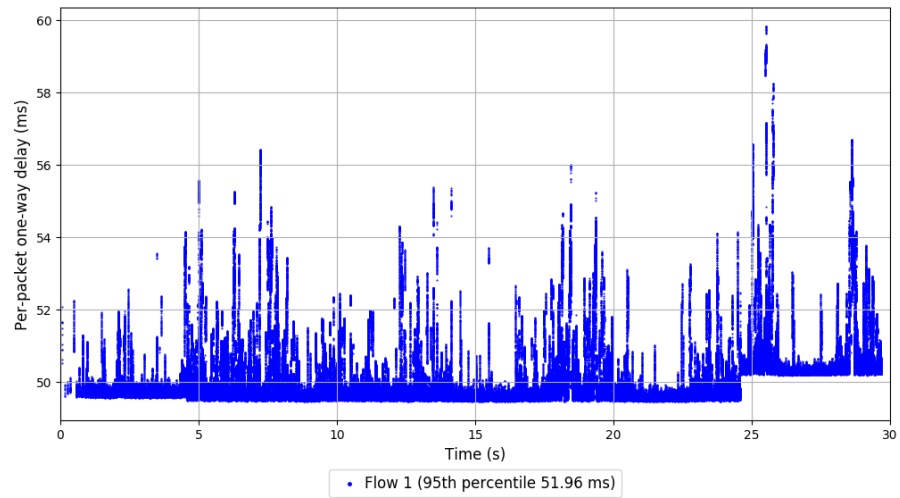
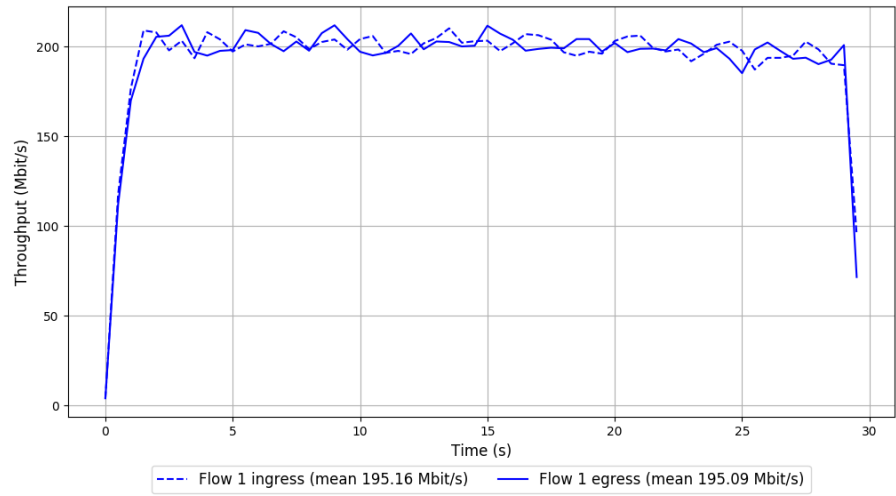
-- Flow 1:

Average throughput: 195.09 Mbit/s

95th percentile per-packet one-way delay: 51.956 ms

Loss rate: 0.36%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 15:28:24

End at: 2018-01-16 15:28:54

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.83 Mbit/s

95th percentile per-packet one-way delay: 51.655 ms

Loss rate: 0.38%

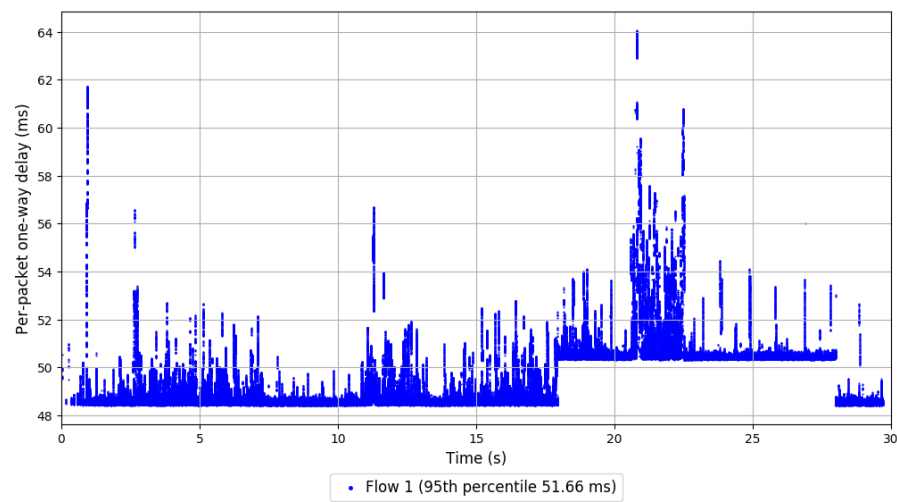
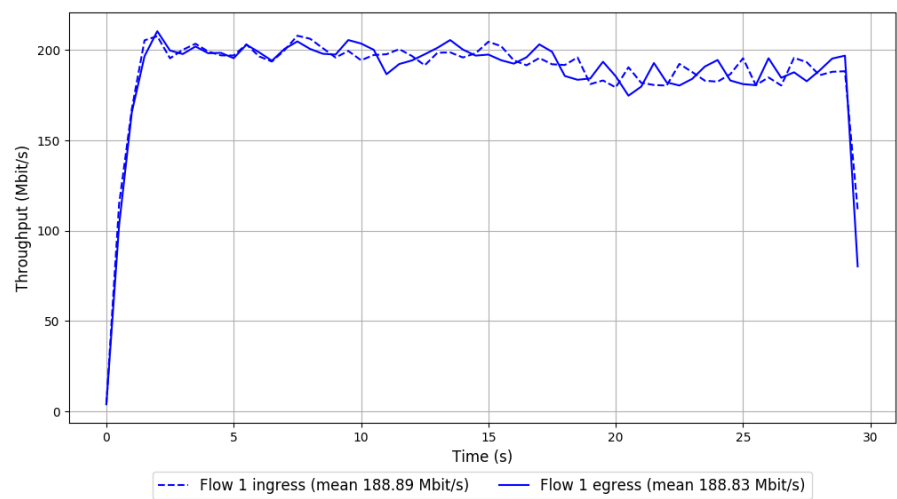
-- Flow 1:

Average throughput: 188.83 Mbit/s

95th percentile per-packet one-way delay: 51.655 ms

Loss rate: 0.38%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 15:43:00

End at: 2018-01-16 15:43:30

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.22 Mbit/s

95th percentile per-packet one-way delay: 50.158 ms

Loss rate: 0.68%

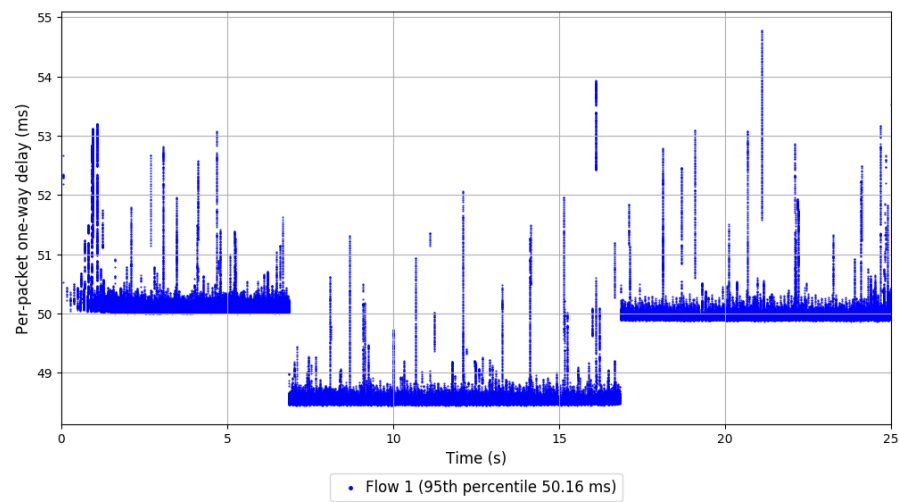
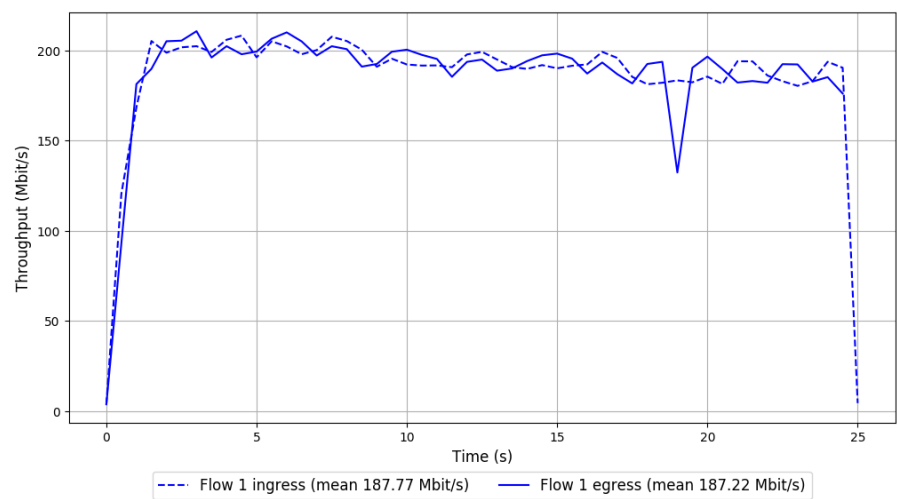
-- Flow 1:

Average throughput: 187.22 Mbit/s

95th percentile per-packet one-way delay: 50.158 ms

Loss rate: 0.68%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 15:57:26

End at: 2018-01-16 15:57:56

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.40 Mbit/s

95th percentile per-packet one-way delay: 50.756 ms

Loss rate: 0.33%

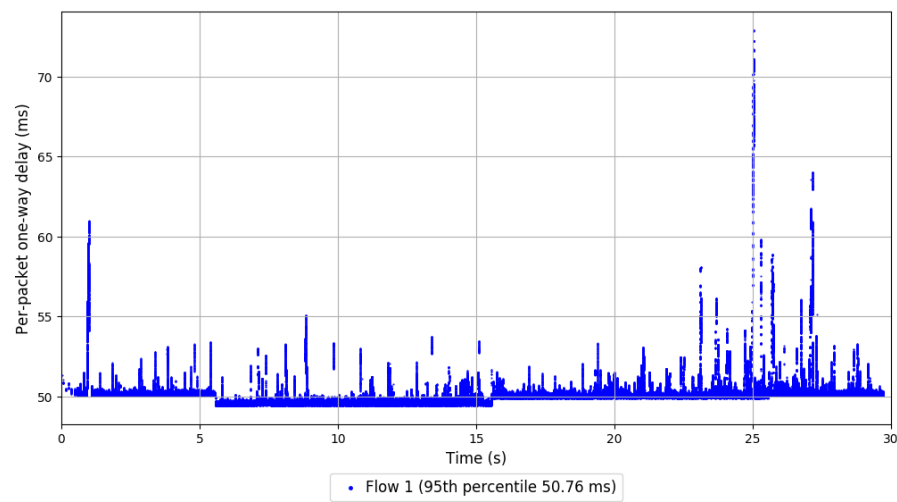
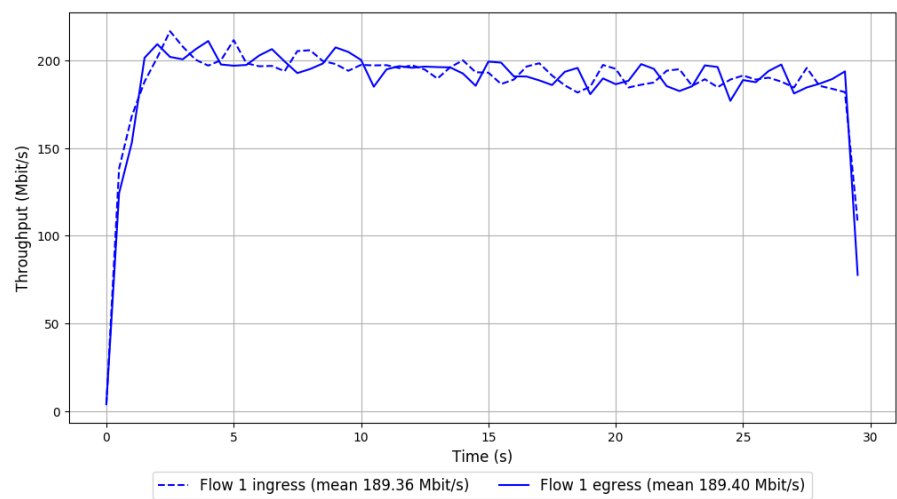
-- Flow 1:

Average throughput: 189.40 Mbit/s

95th percentile per-packet one-way delay: 50.756 ms

Loss rate: 0.33%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 16:12:07

End at: 2018-01-16 16:12:37

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.67 Mbit/s

95th percentile per-packet one-way delay: 50.476 ms

Loss rate: 0.36%

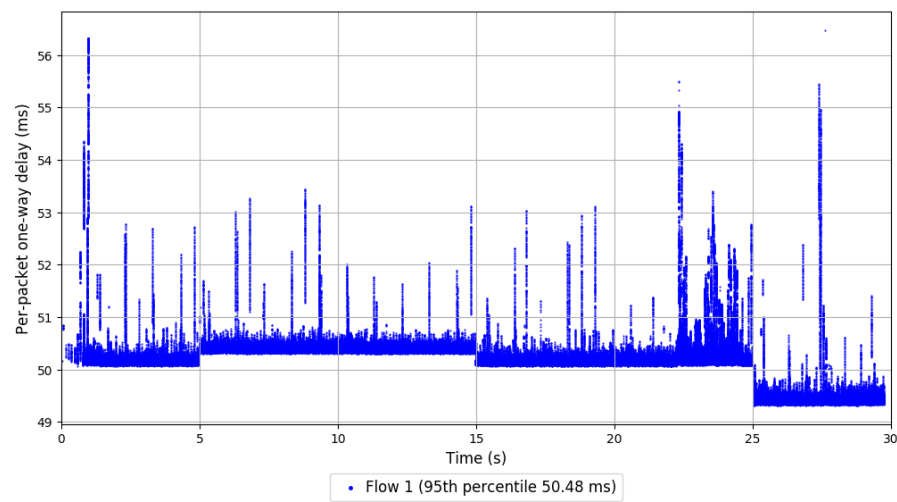
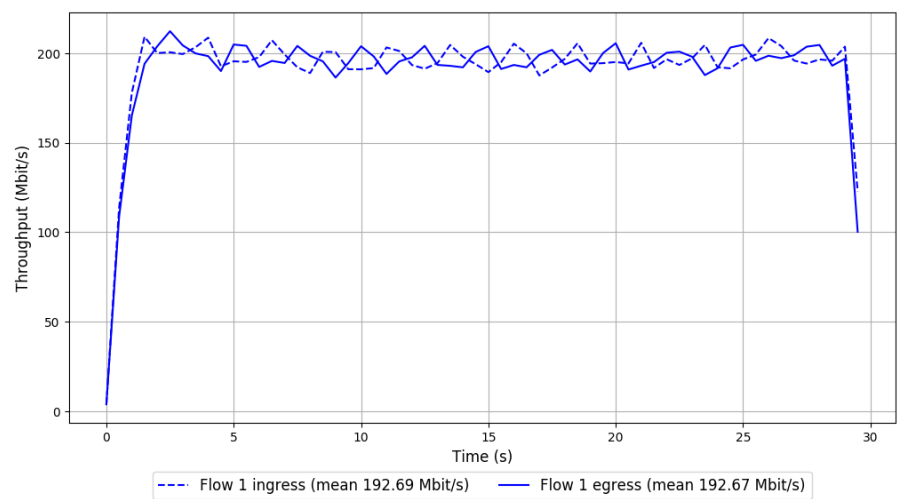
-- Flow 1:

Average throughput: 192.67 Mbit/s

95th percentile per-packet one-way delay: 50.476 ms

Loss rate: 0.36%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-16 16:27:00

End at: 2018-01-16 16:27:30

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.03 Mbit/s

95th percentile per-packet one-way delay: 50.593 ms

Loss rate: 0.31%

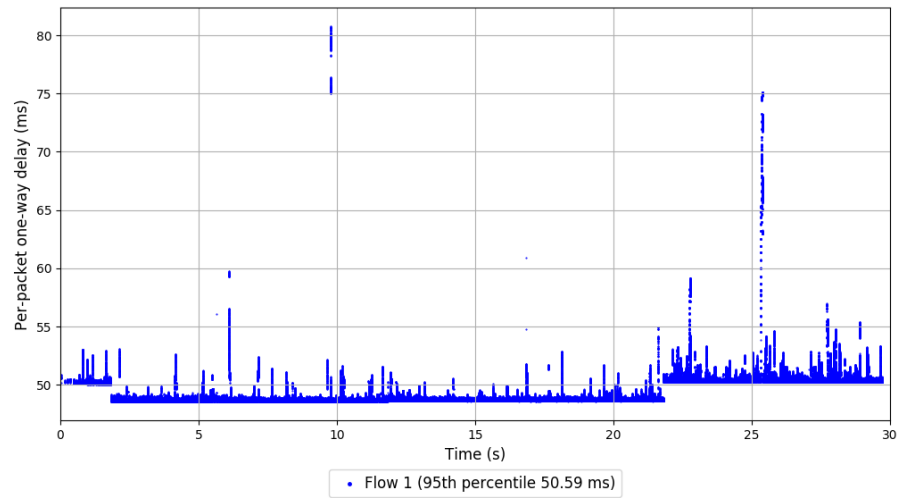
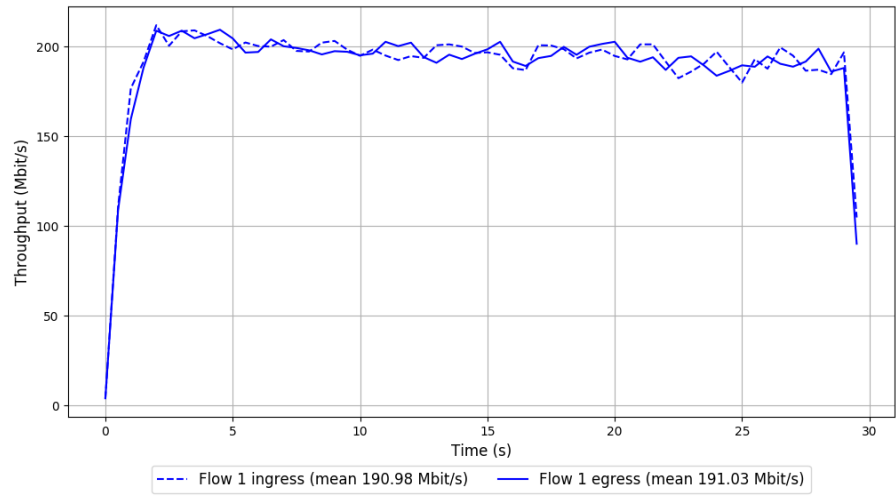
-- Flow 1:

Average throughput: 191.03 Mbit/s

95th percentile per-packet one-way delay: 50.593 ms

Loss rate: 0.31%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-16 16:41:33

End at: 2018-01-16 16:42:03

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.62 Mbit/s

95th percentile per-packet one-way delay: 50.474 ms

Loss rate: 0.34%

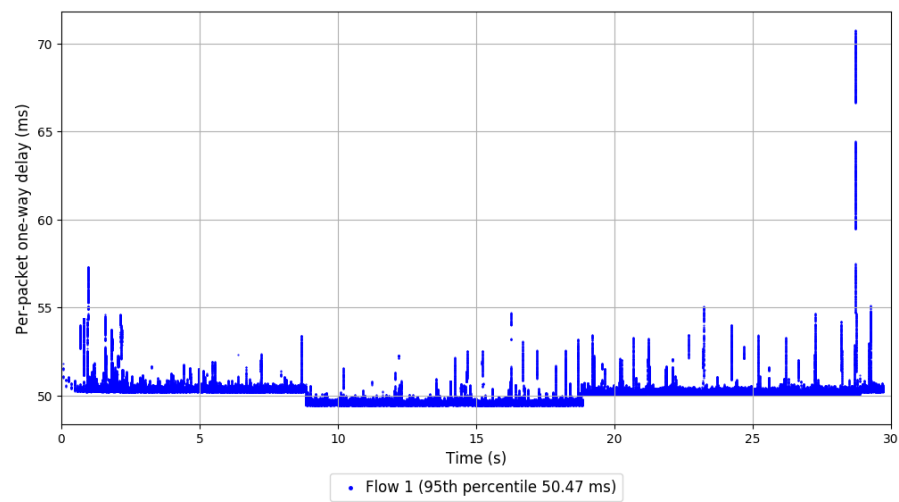
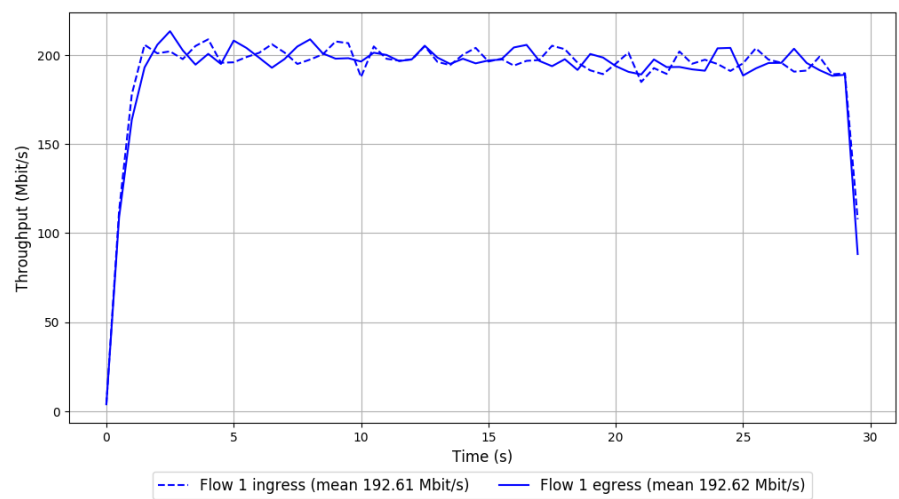
-- Flow 1:

Average throughput: 192.62 Mbit/s

95th percentile per-packet one-way delay: 50.474 ms

Loss rate: 0.34%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

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

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

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.42 Mbit/s

95th percentile per-packet one-way delay: 50.526 ms

Loss rate: 0.35%

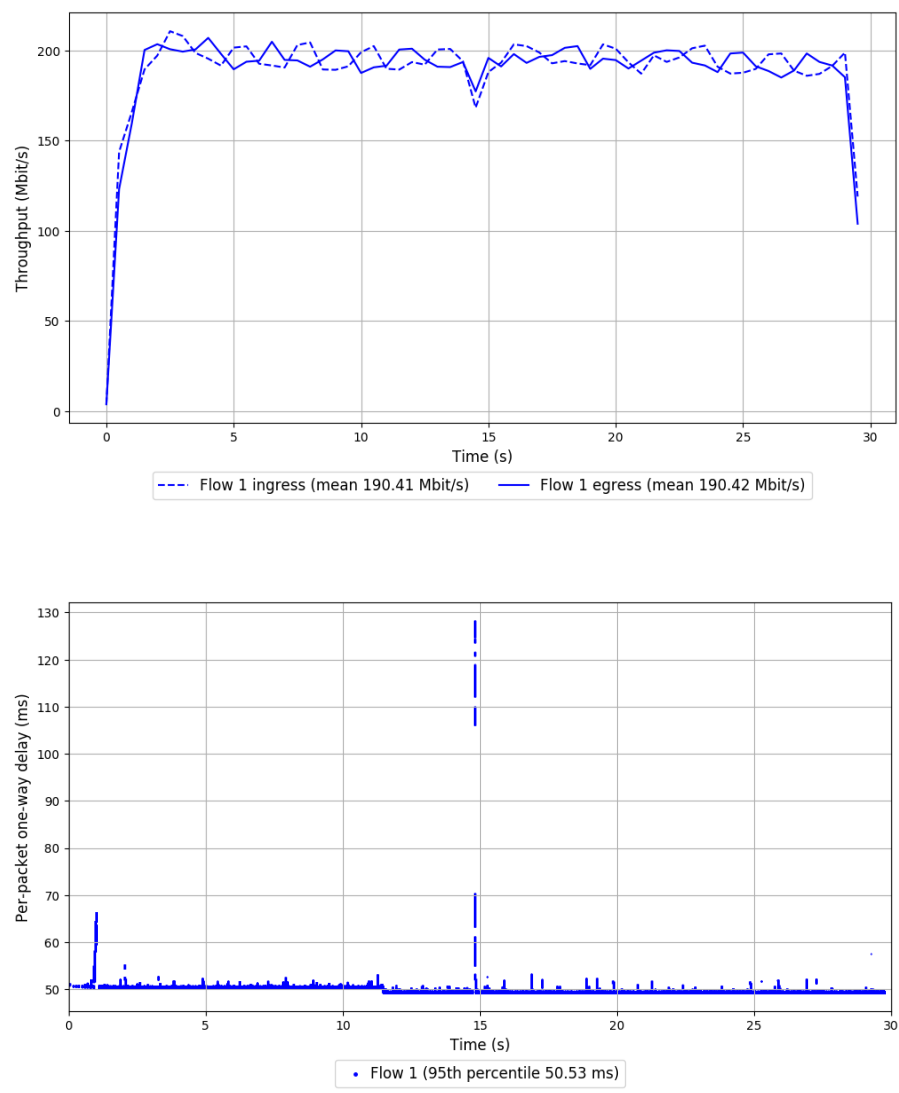
-- Flow 1:

Average throughput: 190.42 Mbit/s

95th percentile per-packet one-way delay: 50.526 ms

Loss rate: 0.35%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of Vivace-latency

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

End at: 2018-01-16 14:34:46

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.33 Mbit/s

95th percentile per-packet one-way delay: 57.936 ms

Loss rate: 0.44%

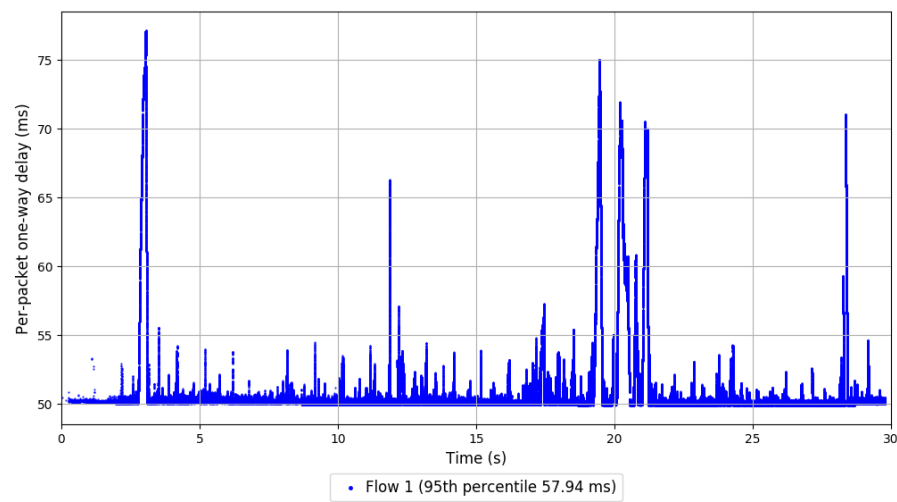
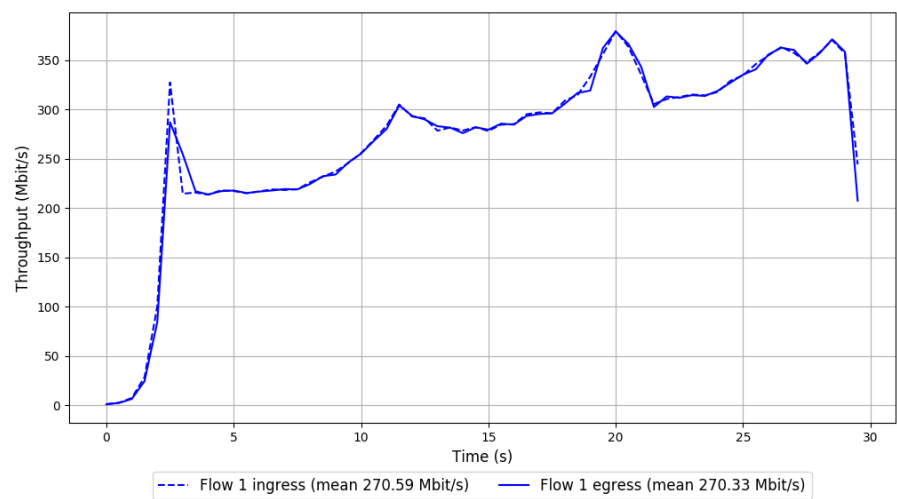
-- Flow 1:

Average throughput: 270.33 Mbit/s

95th percentile per-packet one-way delay: 57.936 ms

Loss rate: 0.44%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 14:49:08

End at: 2018-01-16 14:49:38

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.94 Mbit/s

95th percentile per-packet one-way delay: 58.689 ms

Loss rate: 0.18%

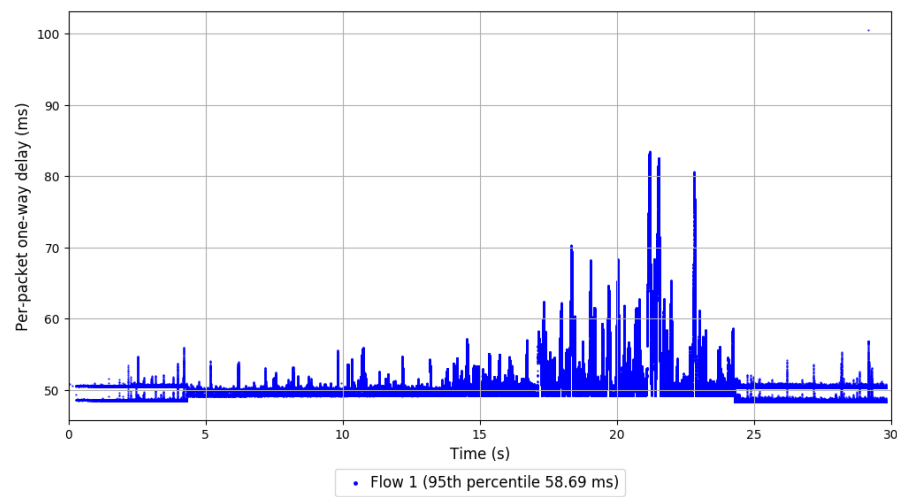
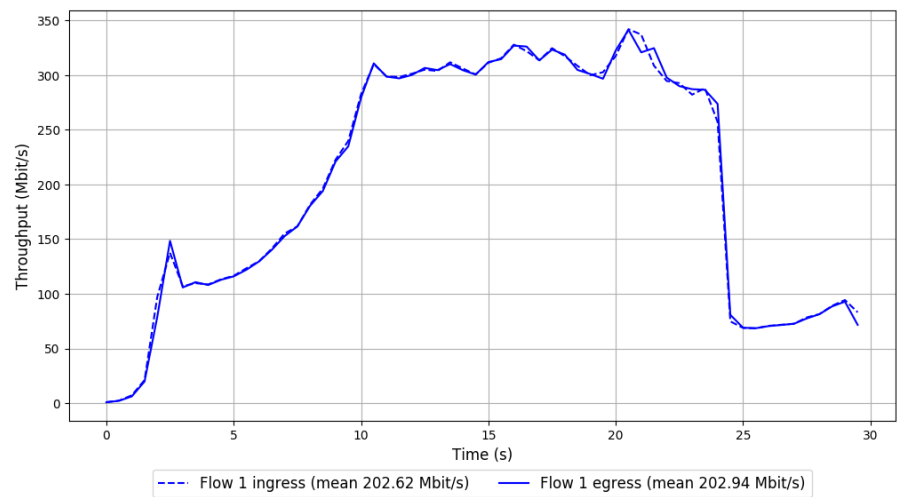
-- Flow 1:

Average throughput: 202.94 Mbit/s

95th percentile per-packet one-way delay: 58.689 ms

Loss rate: 0.18%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 15:03:57

End at: 2018-01-16 15:04:27

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.62 Mbit/s

95th percentile per-packet one-way delay: 96.023 ms

Loss rate: 0.52%

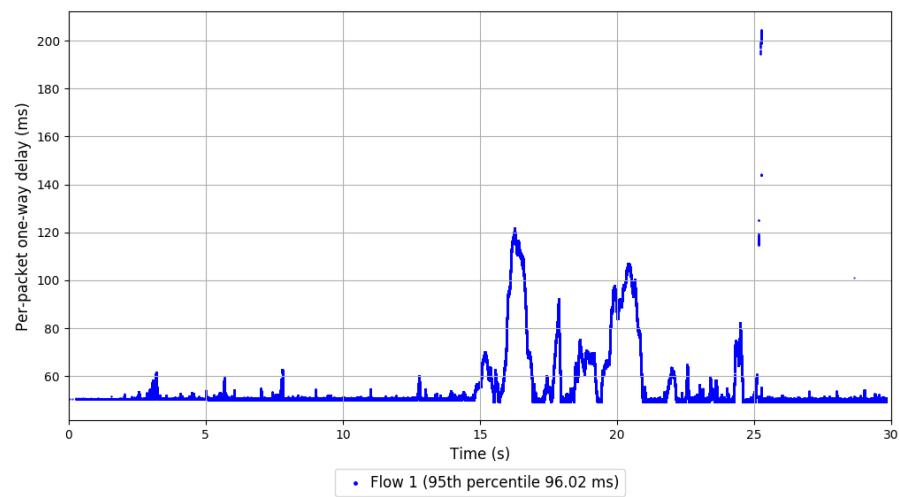
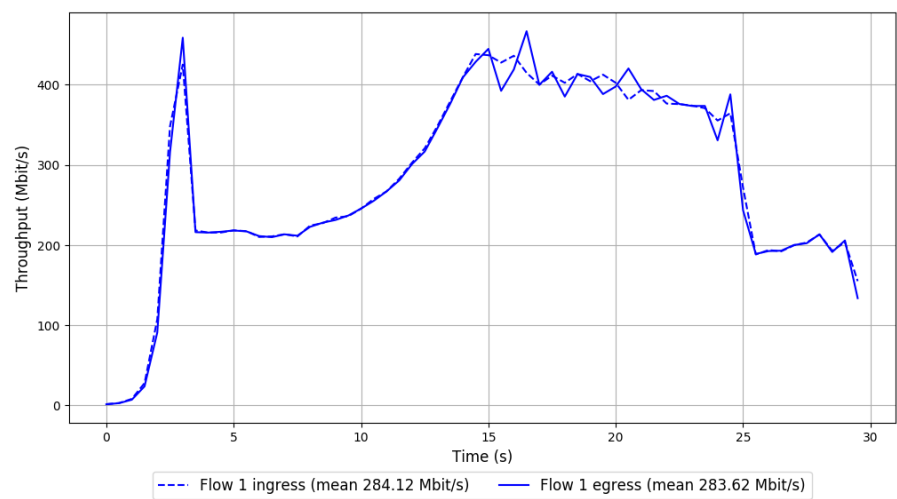
-- Flow 1:

Average throughput: 283.62 Mbit/s

95th percentile per-packet one-way delay: 96.023 ms

Loss rate: 0.52%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 15:18:32

End at: 2018-01-16 15:19:02

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.22 Mbit/s

95th percentile per-packet one-way delay: 64.610 ms

Loss rate: 0.16%

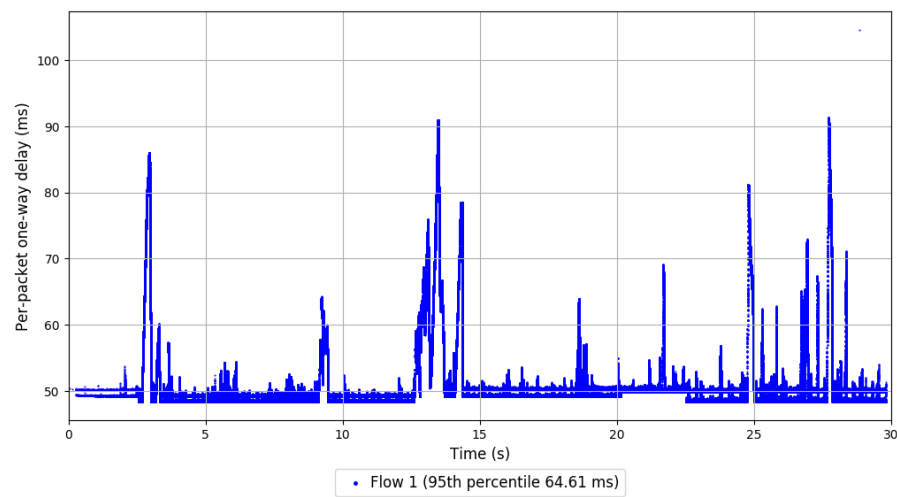
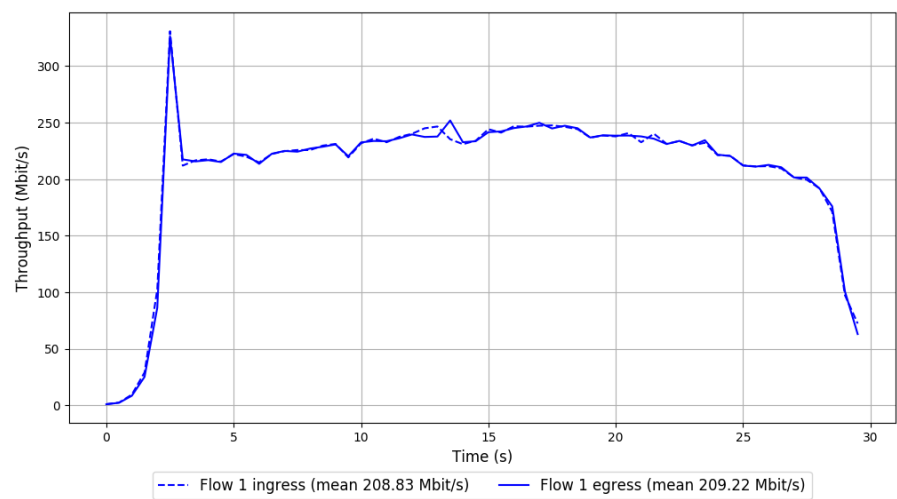
-- Flow 1:

Average throughput: 209.22 Mbit/s

95th percentile per-packet one-way delay: 64.610 ms

Loss rate: 0.16%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 15:33:03

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

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.40 Mbit/s

95th percentile per-packet one-way delay: 51.725 ms

Loss rate: 0.14%

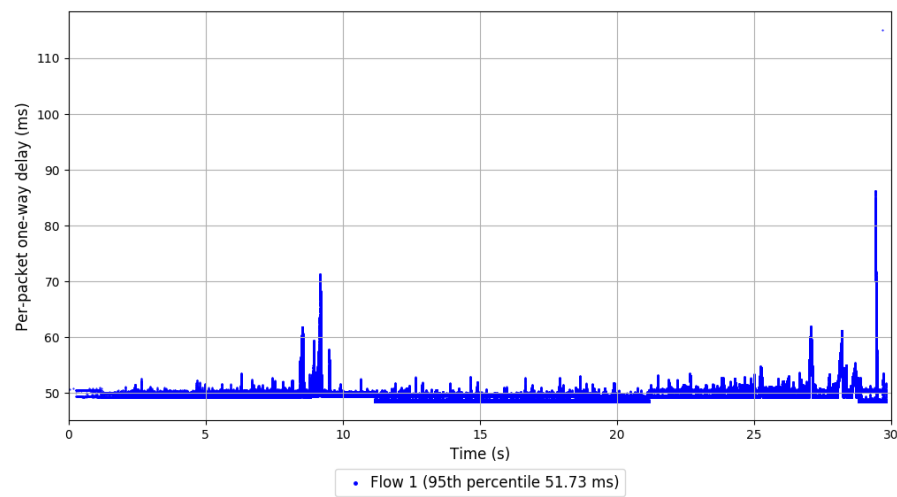
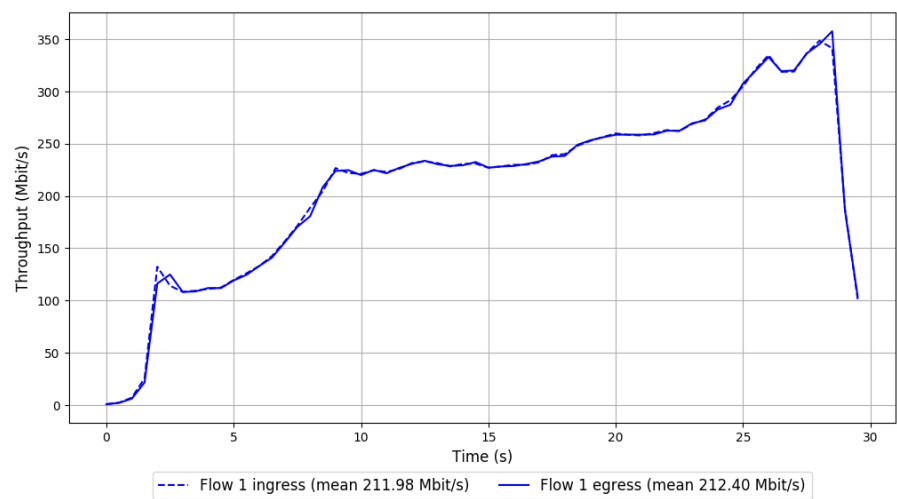
-- Flow 1:

Average throughput: 212.40 Mbit/s

95th percentile per-packet one-way delay: 51.725 ms

Loss rate: 0.14%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 15:47:45

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

Below is generated by plot.py at 2018-01-16 20:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.16 Mbit/s

95th percentile per-packet one-way delay: 51.267 ms

Loss rate: 0.42%

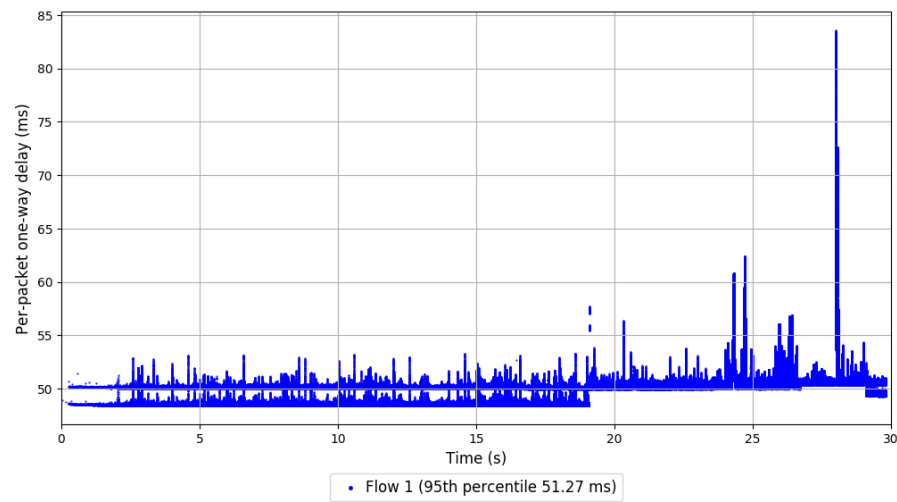
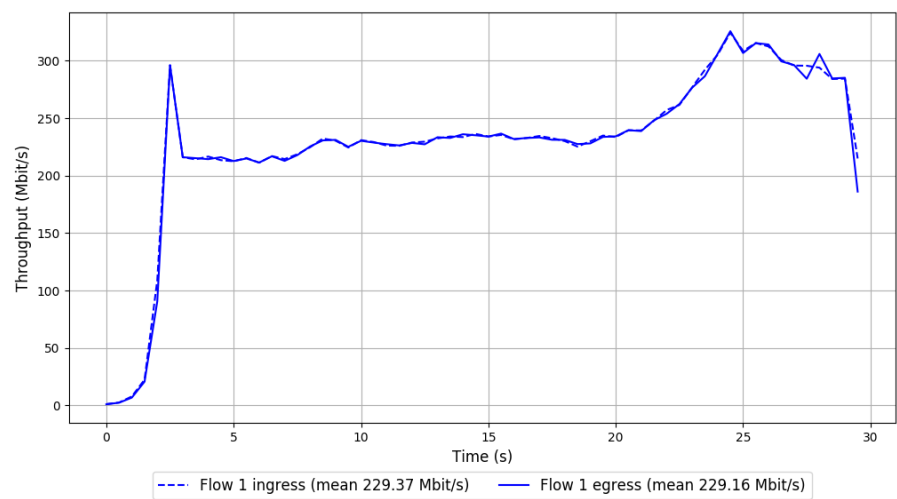
-- Flow 1:

Average throughput: 229.16 Mbit/s

95th percentile per-packet one-way delay: 51.267 ms

Loss rate: 0.42%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-16 16:02:21

End at: 2018-01-16 16:02:51

Below is generated by plot.py at 2018-01-16 20:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.55 Mbit/s

95th percentile per-packet one-way delay: 98.535 ms

Loss rate: 0.46%

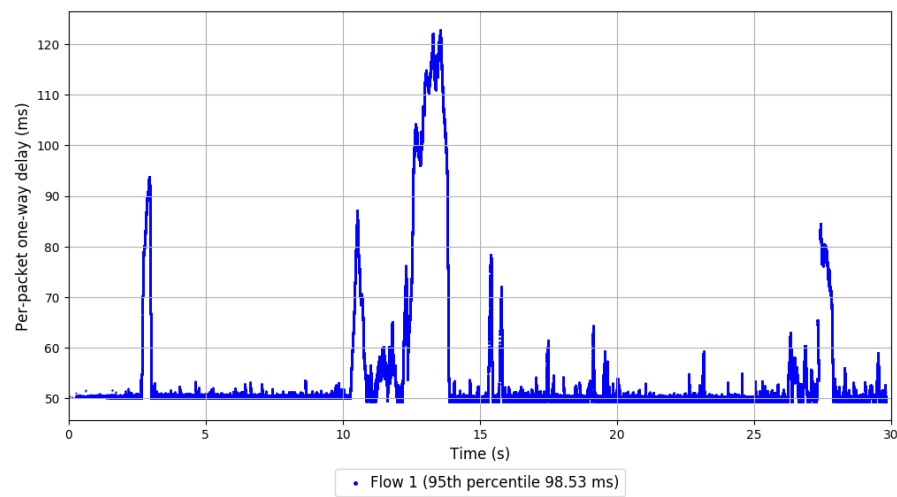
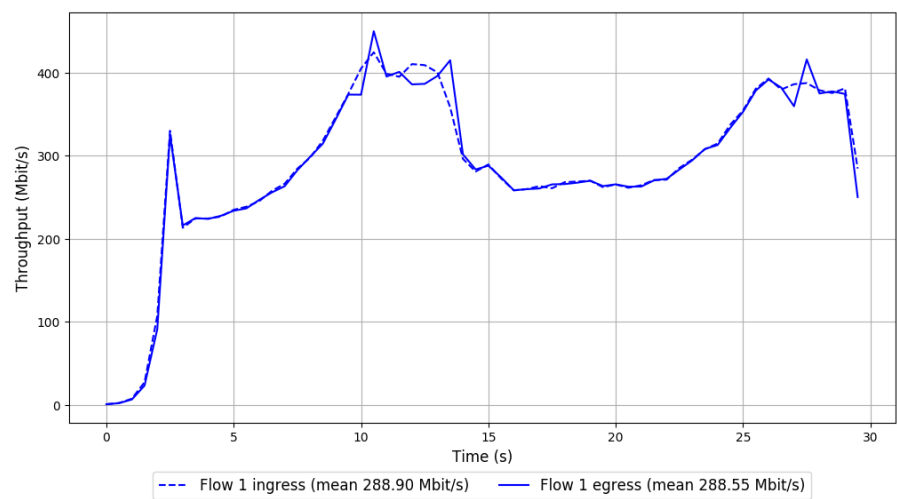
-- Flow 1:

Average throughput: 288.55 Mbit/s

95th percentile per-packet one-way delay: 98.535 ms

Loss rate: 0.46%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-16 16:17:03

End at: 2018-01-16 16:17:33

Below is generated by plot.py at 2018-01-16 20:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.55 Mbit/s

95th percentile per-packet one-way delay: 158.766 ms

Loss rate: 1.18%

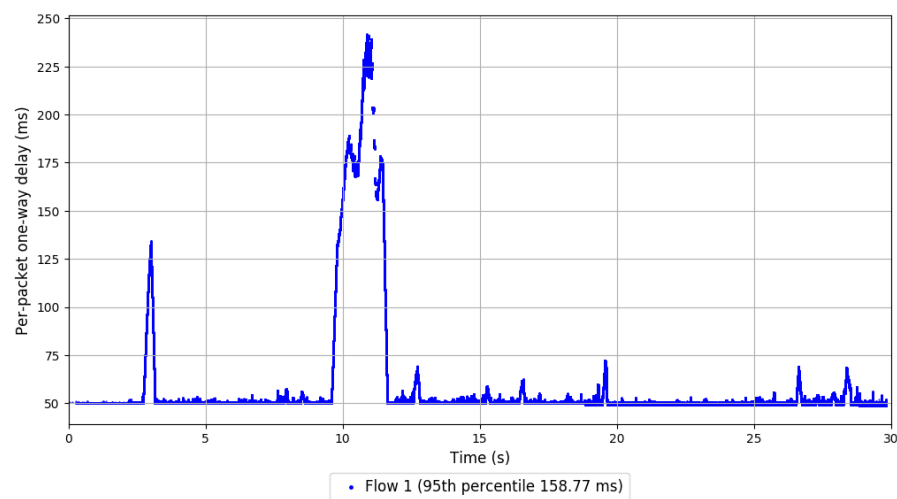
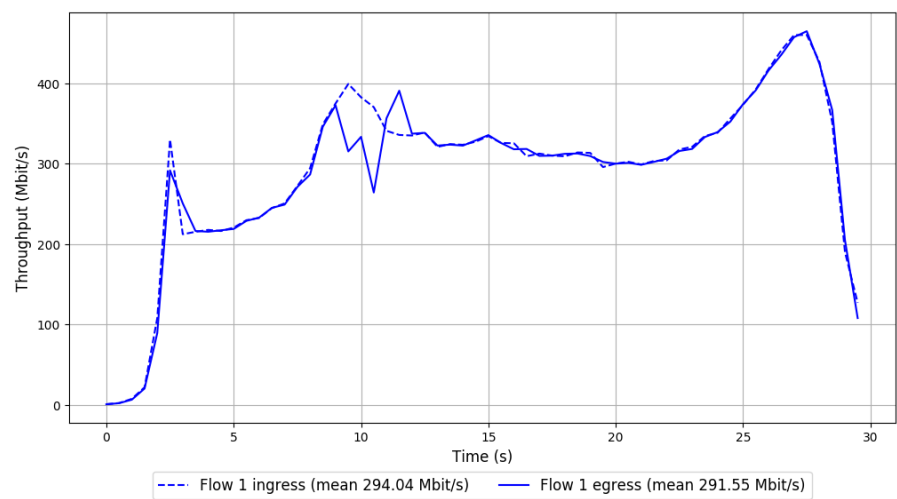
-- Flow 1:

Average throughput: 291.55 Mbit/s

95th percentile per-packet one-way delay: 158.766 ms

Loss rate: 1.18%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-16 16:31:51

End at: 2018-01-16 16:32:21

Below is generated by plot.py at 2018-01-16 20:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.40 Mbit/s

95th percentile per-packet one-way delay: 65.948 ms

Loss rate: 0.51%

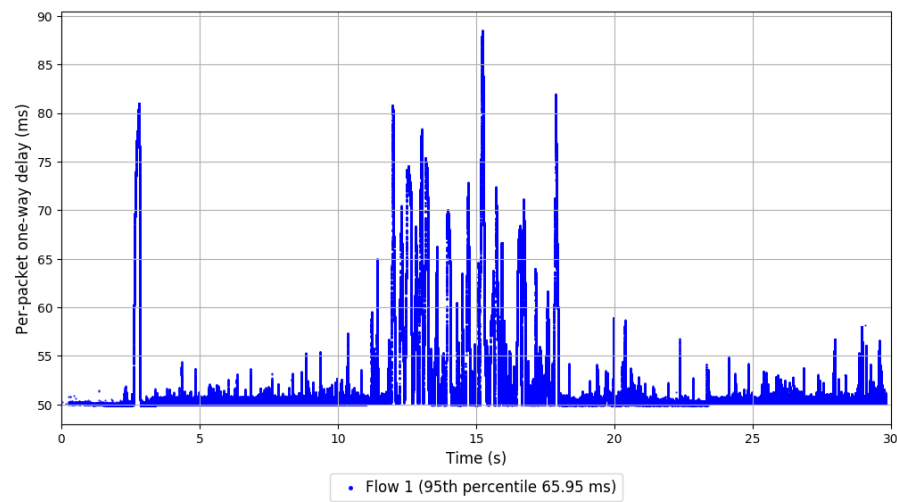
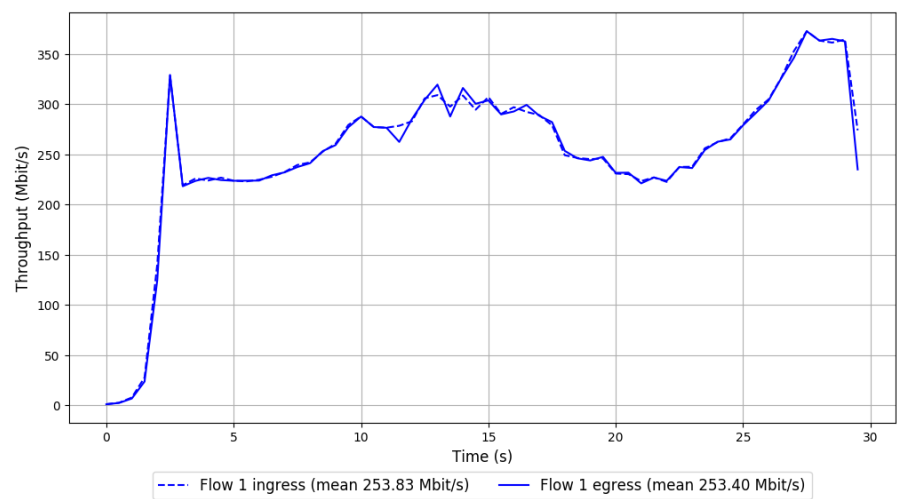
-- Flow 1:

Average throughput: 253.40 Mbit/s

95th percentile per-packet one-way delay: 65.948 ms

Loss rate: 0.51%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-16 16:46:27

End at: 2018-01-16 16:46:57

Below is generated by plot.py at 2018-01-16 20:48:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.03 Mbit/s

95th percentile per-packet one-way delay: 52.177 ms

Loss rate: 0.21%

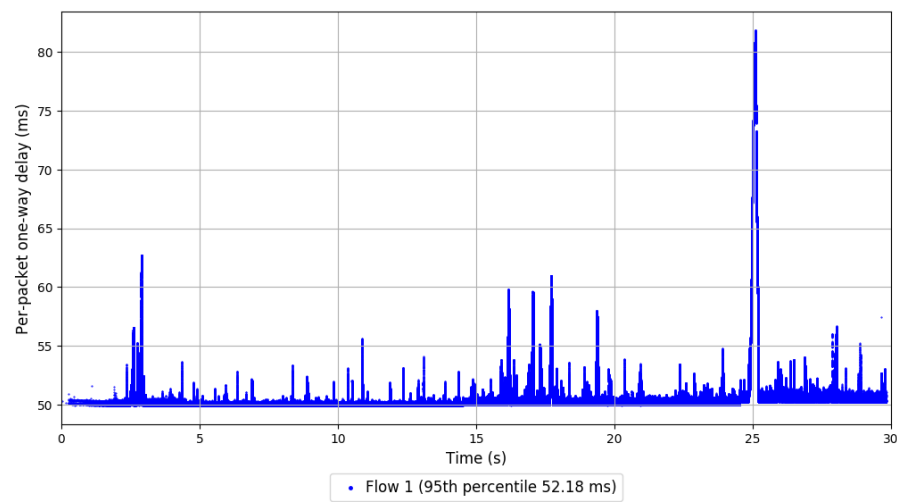
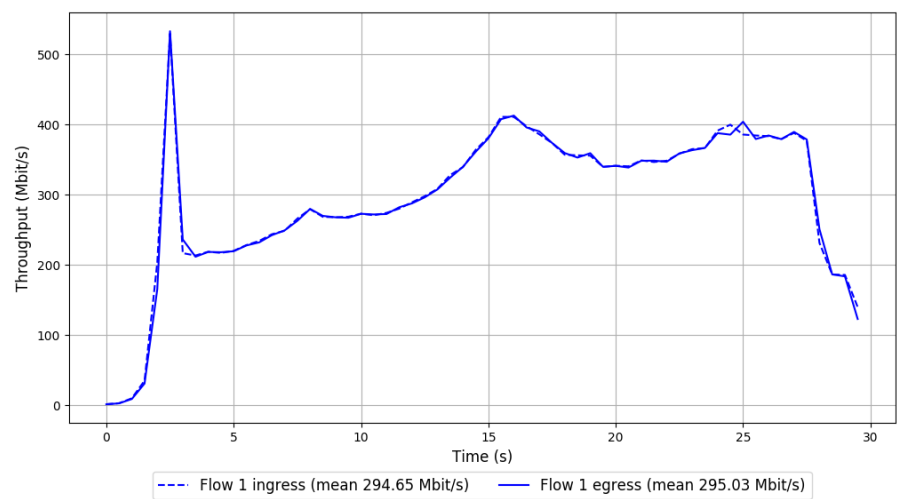
-- Flow 1:

Average throughput: 295.03 Mbit/s

95th percentile per-packet one-way delay: 52.177 ms

Loss rate: 0.21%

Run 10: Report of Vivace-latency — Data Link

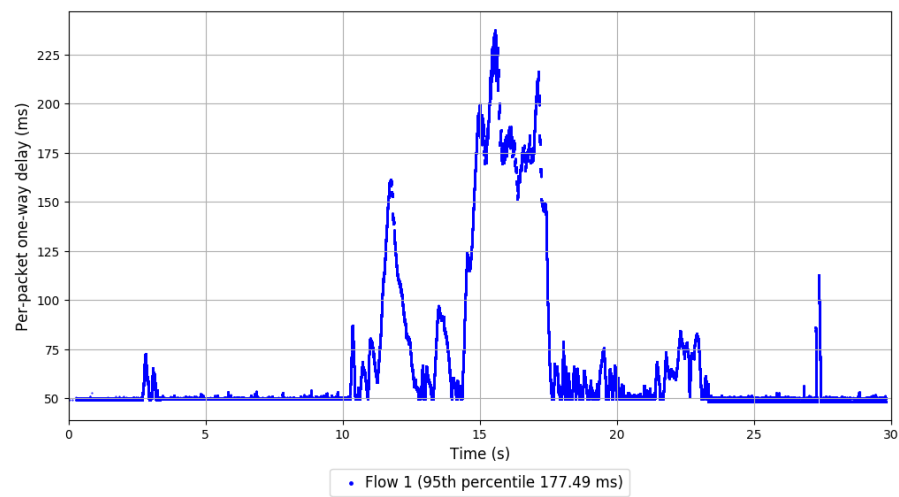
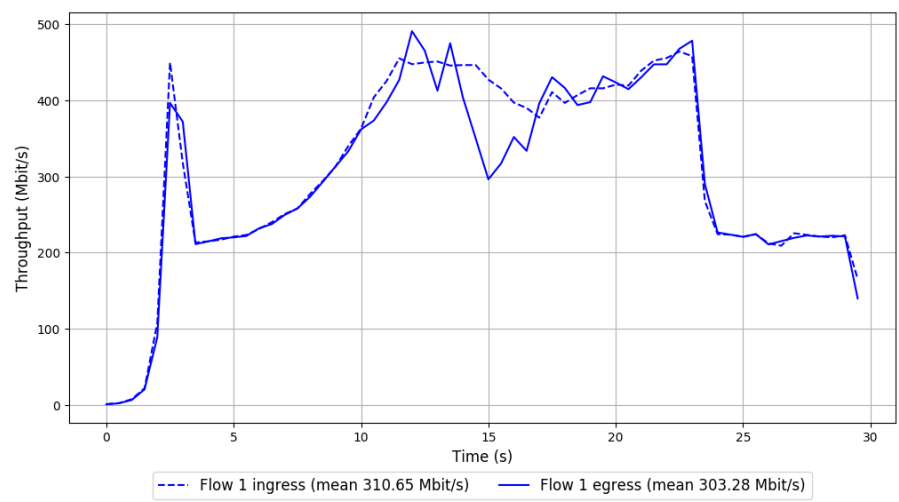


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 14:43:21
End at: 2018-01-16 14:43:51

# Below is generated by plot.py at 2018-01-16 20:49:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.28 Mbit/s
95th percentile per-packet one-way delay: 177.485 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 303.28 Mbit/s
95th percentile per-packet one-way delay: 177.485 ms
Loss rate: 2.72%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 14:58:07

End at: 2018-01-16 14:58:37

Below is generated by plot.py at 2018-01-16 20:49:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.17 Mbit/s

95th percentile per-packet one-way delay: 50.767 ms

Loss rate: 0.50%

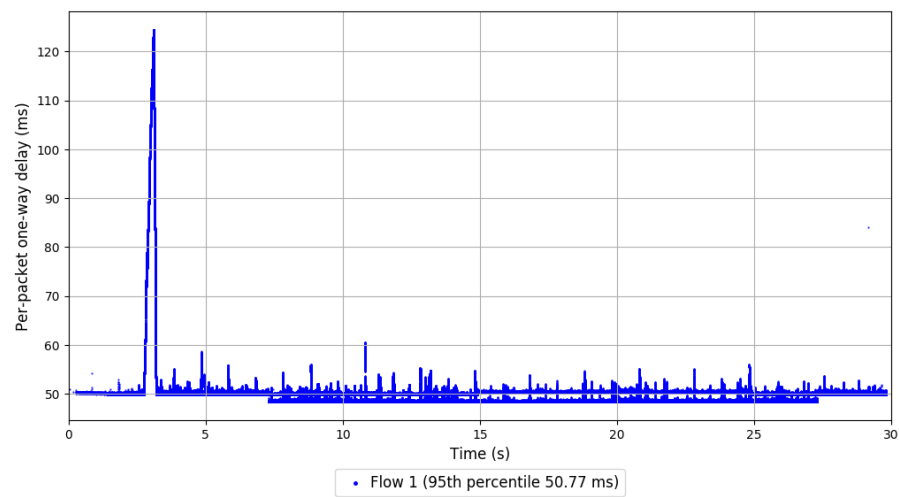
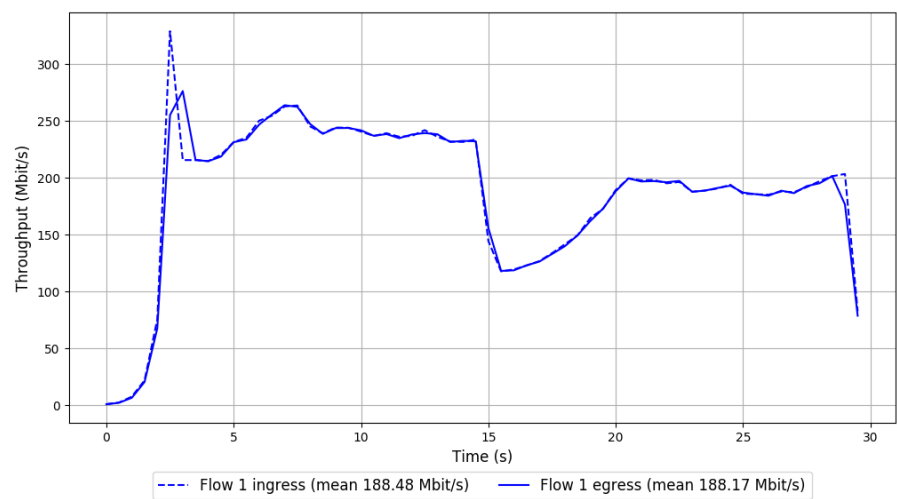
-- Flow 1:

Average throughput: 188.17 Mbit/s

95th percentile per-packet one-way delay: 50.767 ms

Loss rate: 0.50%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 15:12:33

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

Below is generated by plot.py at 2018-01-16 20:50:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.66 Mbit/s

95th percentile per-packet one-way delay: 192.383 ms

Loss rate: 3.68%

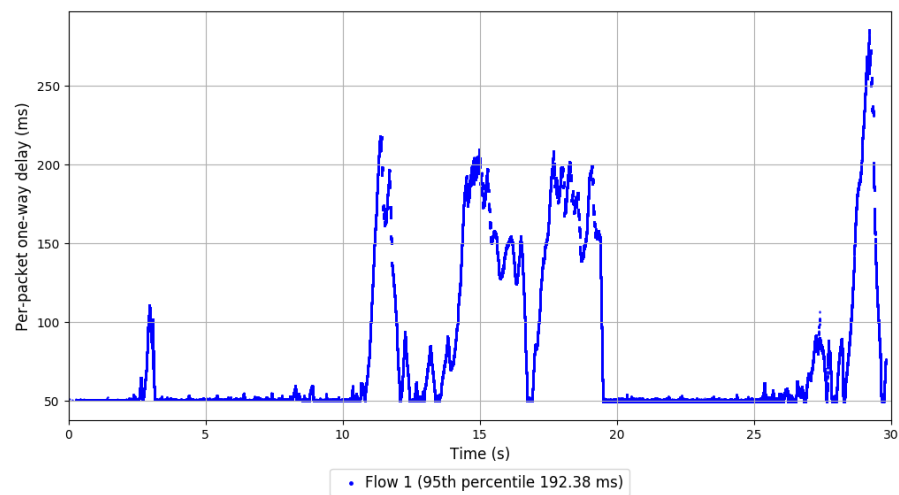
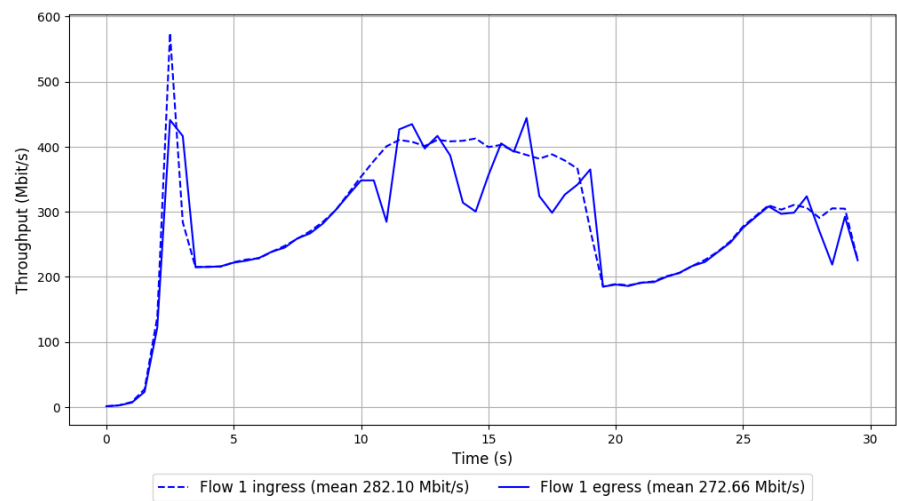
-- Flow 1:

Average throughput: 272.66 Mbit/s

95th percentile per-packet one-way delay: 192.383 ms

Loss rate: 3.68%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 15:27:10

End at: 2018-01-16 15:27:40

Below is generated by plot.py at 2018-01-16 20:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.93 Mbit/s

95th percentile per-packet one-way delay: 165.051 ms

Loss rate: 3.30%

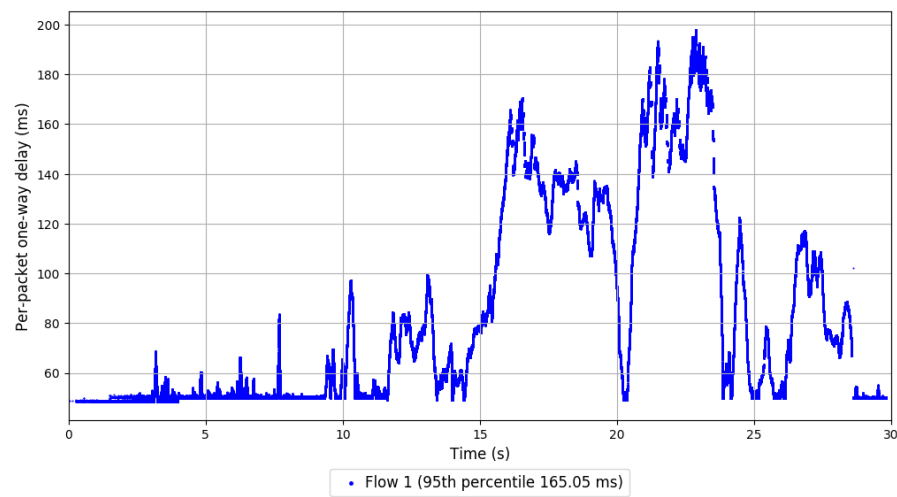
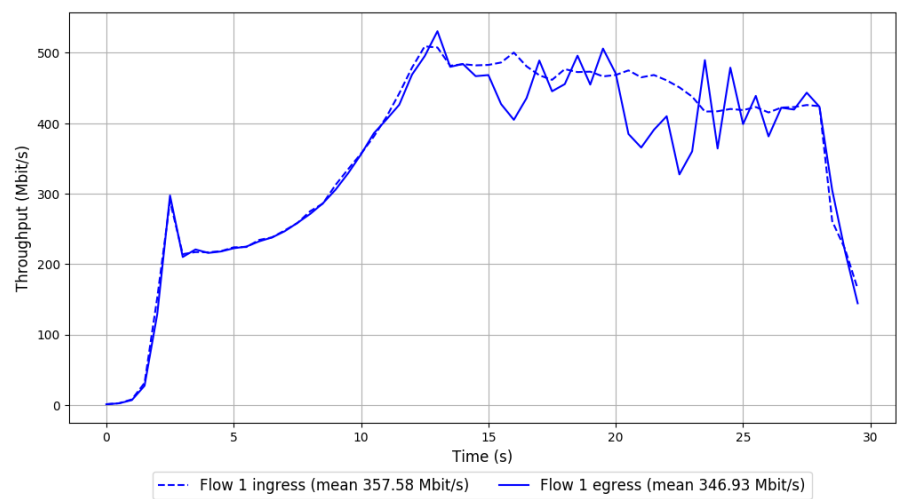
-- Flow 1:

Average throughput: 346.93 Mbit/s

95th percentile per-packet one-way delay: 165.051 ms

Loss rate: 3.30%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 15:41:57

End at: 2018-01-16 15:42:27

Below is generated by plot.py at 2018-01-16 20:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.50 Mbit/s

95th percentile per-packet one-way delay: 149.315 ms

Loss rate: 4.25%

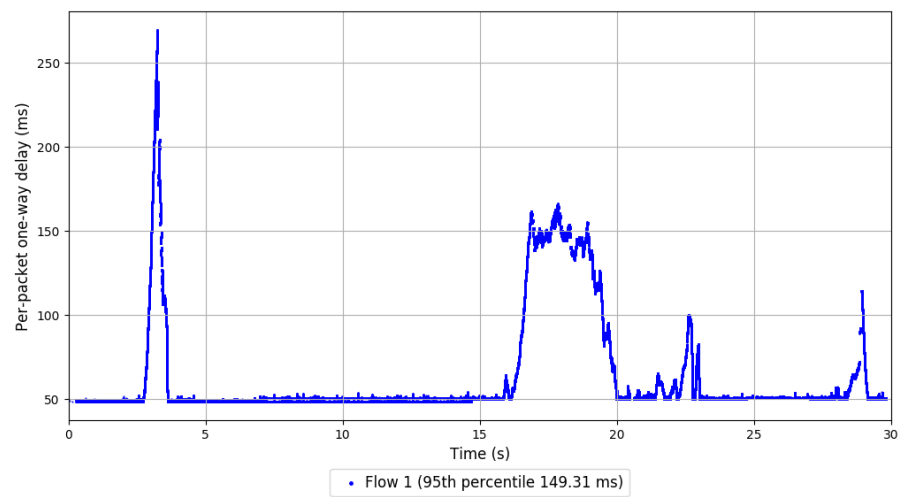
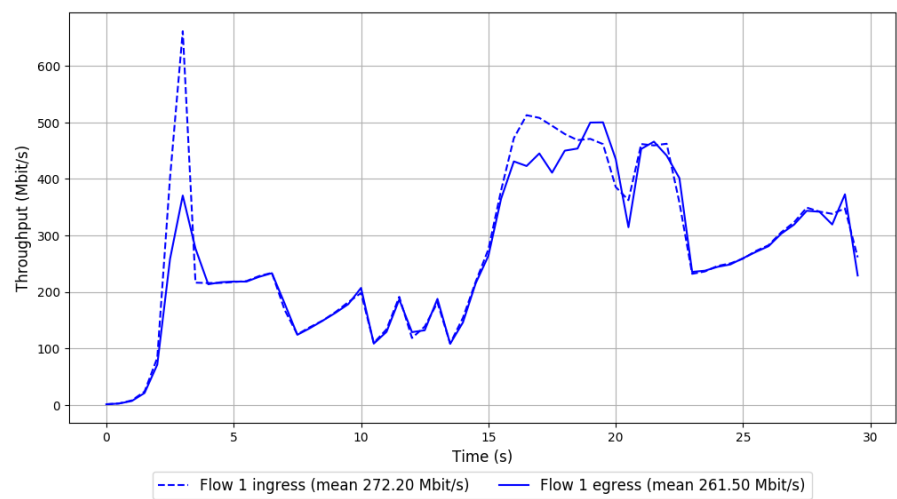
-- Flow 1:

Average throughput: 261.50 Mbit/s

95th percentile per-packet one-way delay: 149.315 ms

Loss rate: 4.25%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 15:56:23

End at: 2018-01-16 15:56:53

Below is generated by plot.py at 2018-01-16 20:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.88 Mbit/s

95th percentile per-packet one-way delay: 176.927 ms

Loss rate: 3.45%

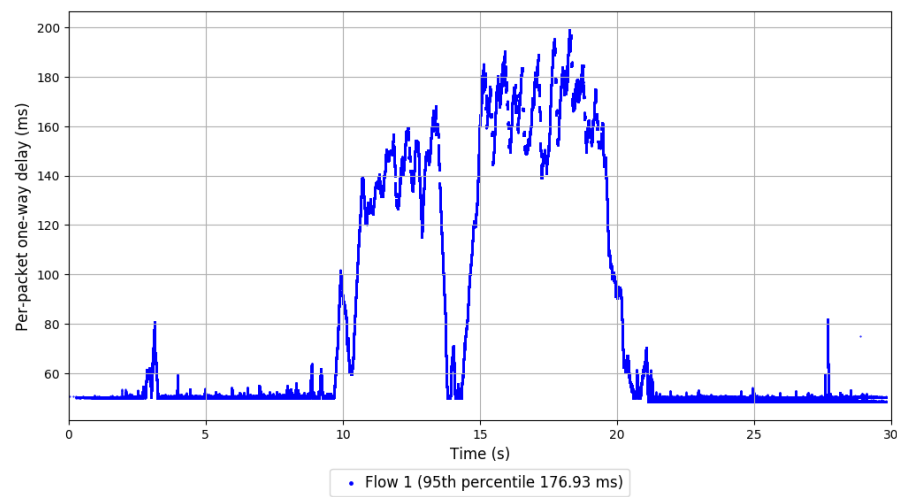
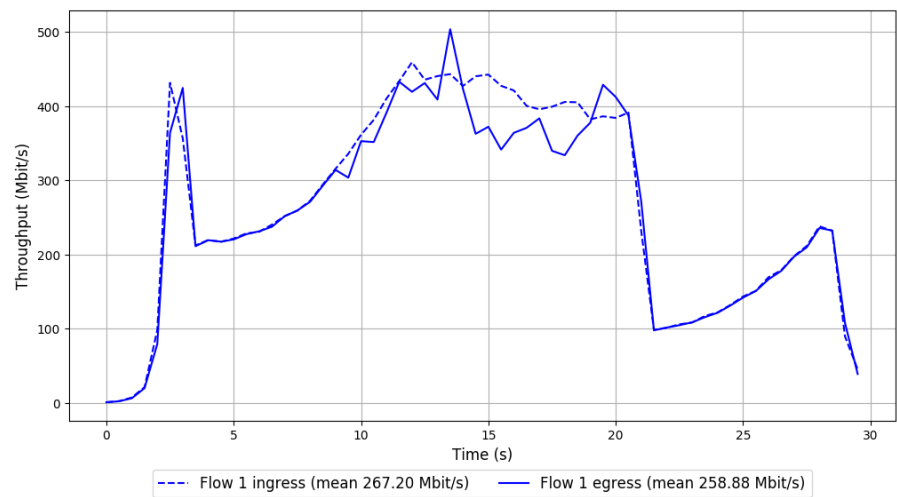
-- Flow 1:

Average throughput: 258.88 Mbit/s

95th percentile per-packet one-way delay: 176.927 ms

Loss rate: 3.45%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 16:11:03

End at: 2018-01-16 16:11:33

Below is generated by plot.py at 2018-01-16 20:55:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.66 Mbit/s

95th percentile per-packet one-way delay: 104.091 ms

Loss rate: 1.31%

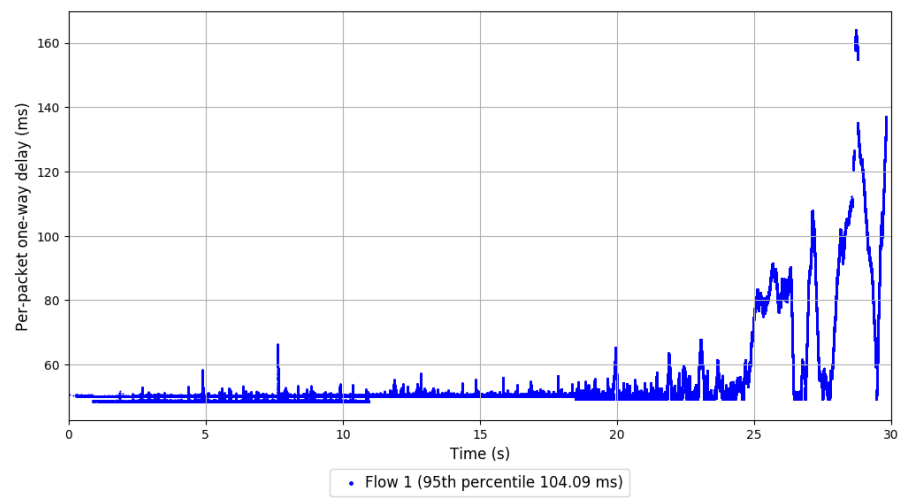
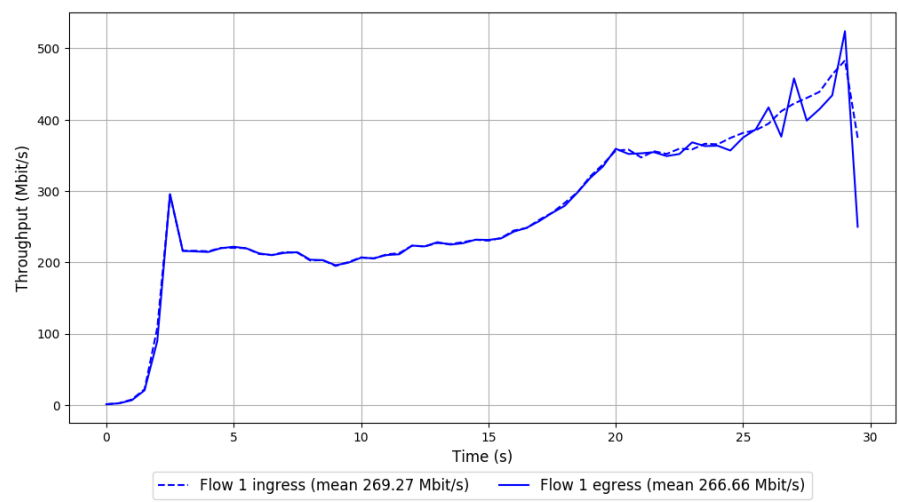
-- Flow 1:

Average throughput: 266.66 Mbit/s

95th percentile per-packet one-way delay: 104.091 ms

Loss rate: 1.31%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-16 16:25:53

End at: 2018-01-16 16:26:23

Below is generated by plot.py at 2018-01-16 20:57:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.69 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 1.15%

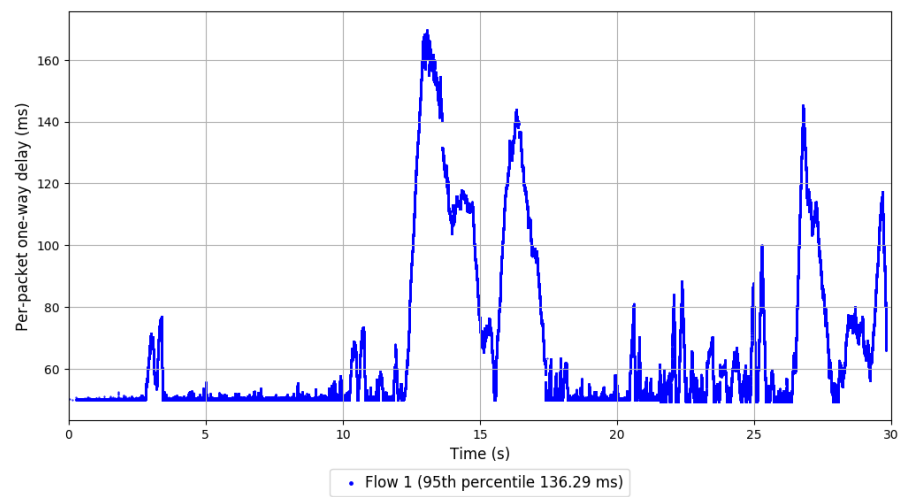
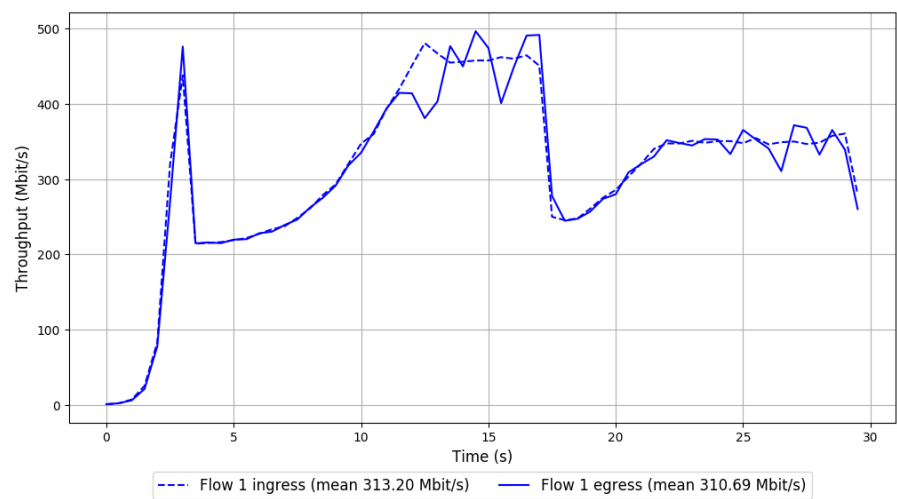
-- Flow 1:

Average throughput: 310.69 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 1.15%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-16 16:40:32

End at: 2018-01-16 16:41:02

Below is generated by plot.py at 2018-01-16 20:57:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.03 Mbit/s

95th percentile per-packet one-way delay: 145.181 ms

Loss rate: 2.22%

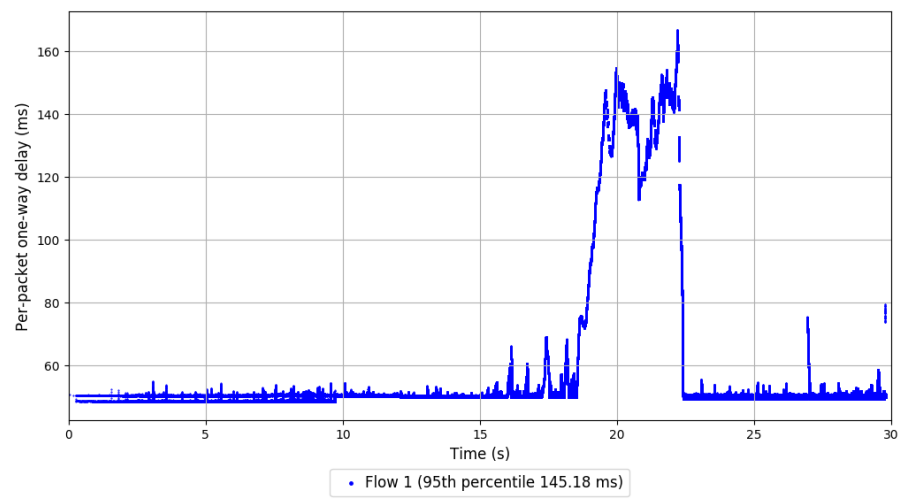
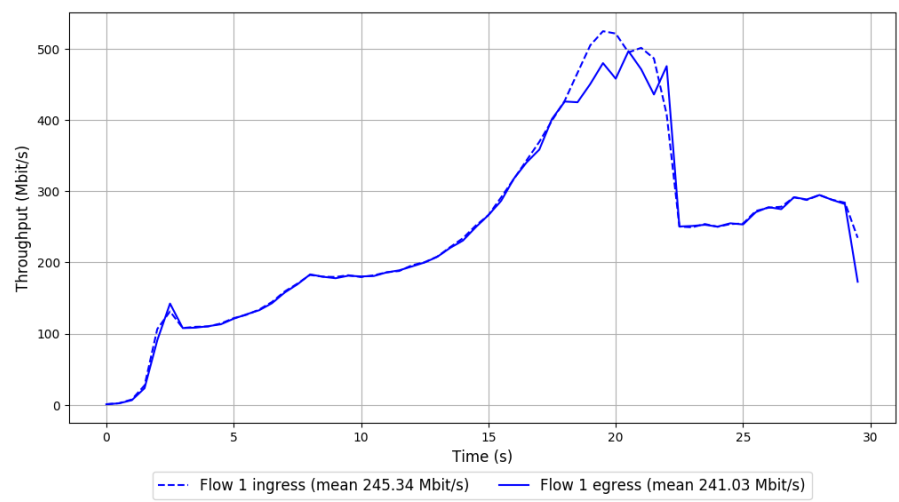
-- Flow 1:

Average throughput: 241.03 Mbit/s

95th percentile per-packet one-way delay: 145.181 ms

Loss rate: 2.22%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-16 16:55:32

End at: 2018-01-16 16:56:02

Below is generated by plot.py at 2018-01-16 20:59:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.92 Mbit/s

95th percentile per-packet one-way delay: 147.540 ms

Loss rate: 2.19%

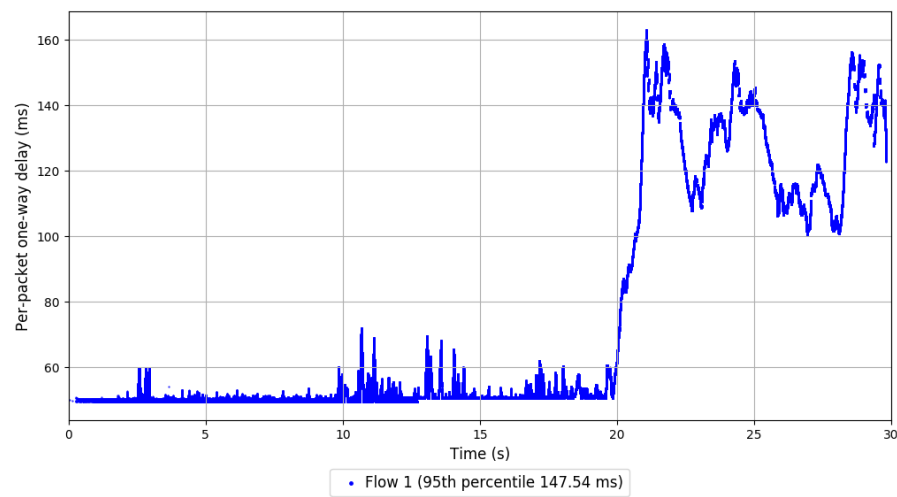
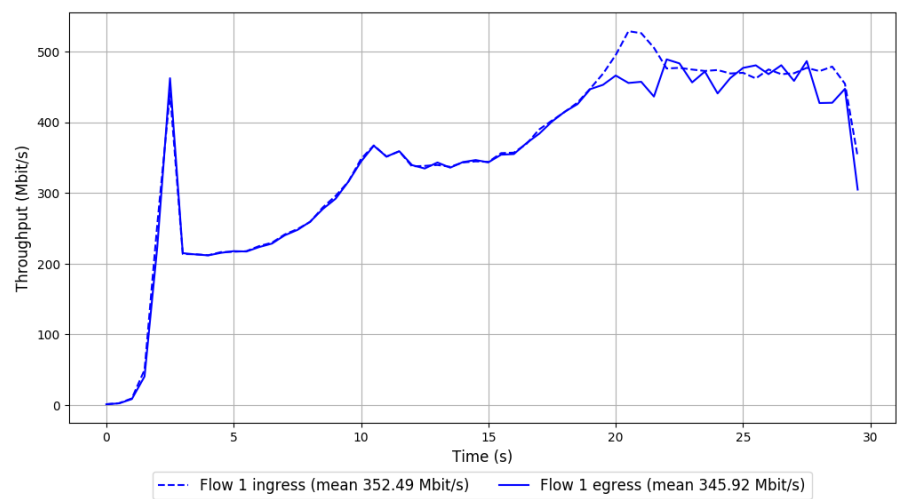
-- Flow 1:

Average throughput: 345.92 Mbit/s

95th percentile per-packet one-way delay: 147.540 ms

Loss rate: 2.19%

Run 10: Report of Vivace-loss — Data Link

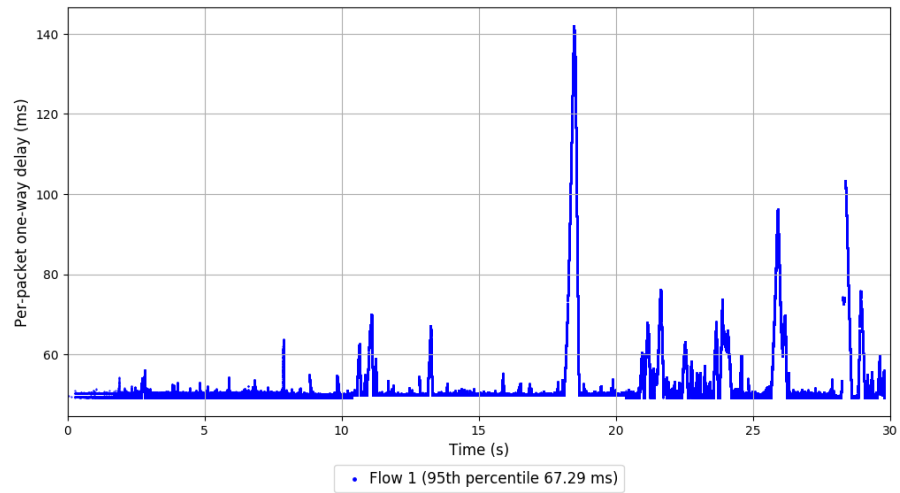
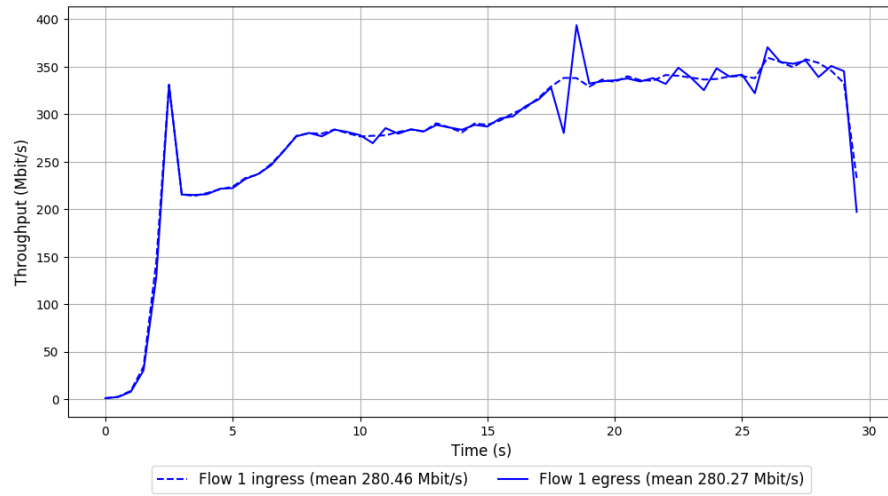


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 14:35:54
End at: 2018-01-16 14:36:24

# Below is generated by plot.py at 2018-01-16 20:59:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.27 Mbit/s
95th percentile per-packet one-way delay: 67.293 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 280.27 Mbit/s
95th percentile per-packet one-way delay: 67.293 ms
Loss rate: 0.40%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 14:50:41

End at: 2018-01-16 14:51:11

Below is generated by plot.py at 2018-01-16 20:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.47 Mbit/s

95th percentile per-packet one-way delay: 65.967 ms

Loss rate: 0.49%

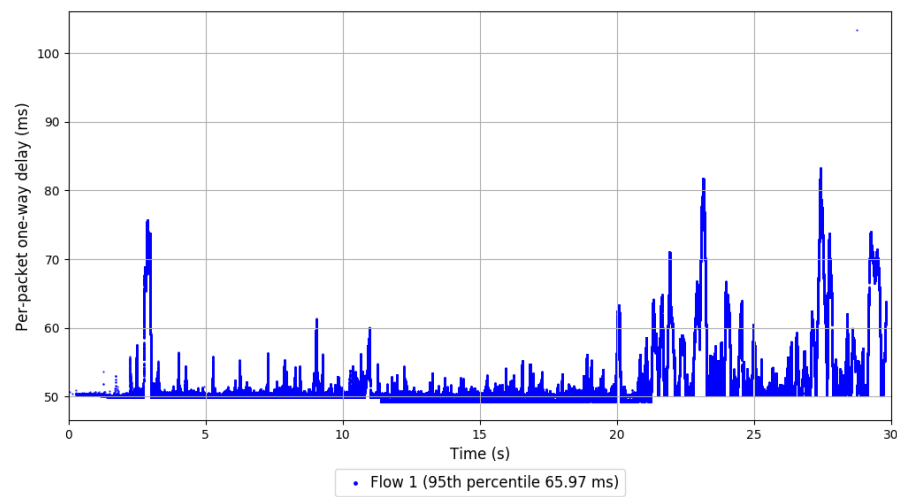
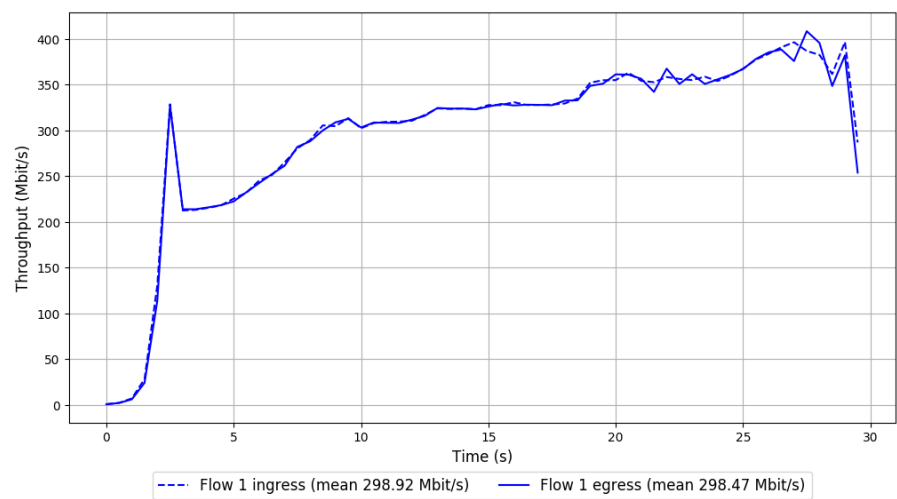
-- Flow 1:

Average throughput: 298.47 Mbit/s

95th percentile per-packet one-way delay: 65.967 ms

Loss rate: 0.49%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 15:05:38

End at: 2018-01-16 15:06:08

Below is generated by plot.py at 2018-01-16 20:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 149.840 ms

Loss rate: 11.93%

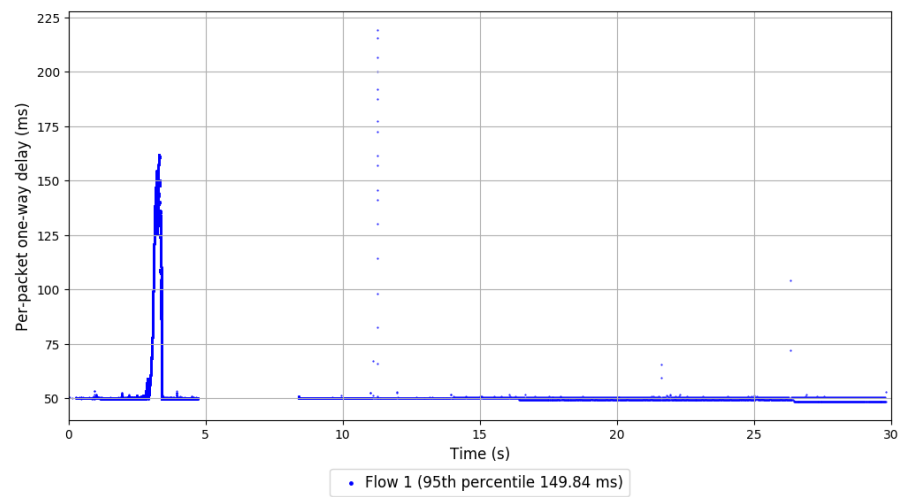
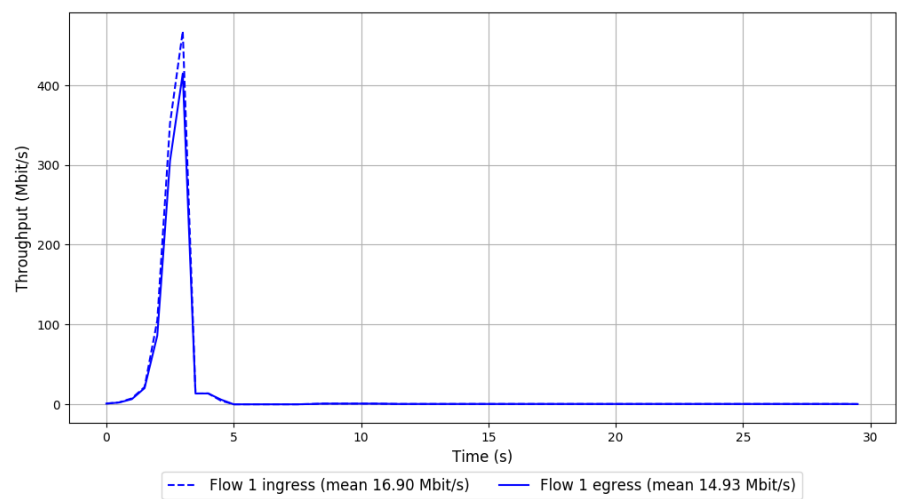
-- Flow 1:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 149.840 ms

Loss rate: 11.93%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 15:20:06

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

Below is generated by plot.py at 2018-01-16 20:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.06 Mbit/s

95th percentile per-packet one-way delay: 79.378 ms

Loss rate: 0.12%

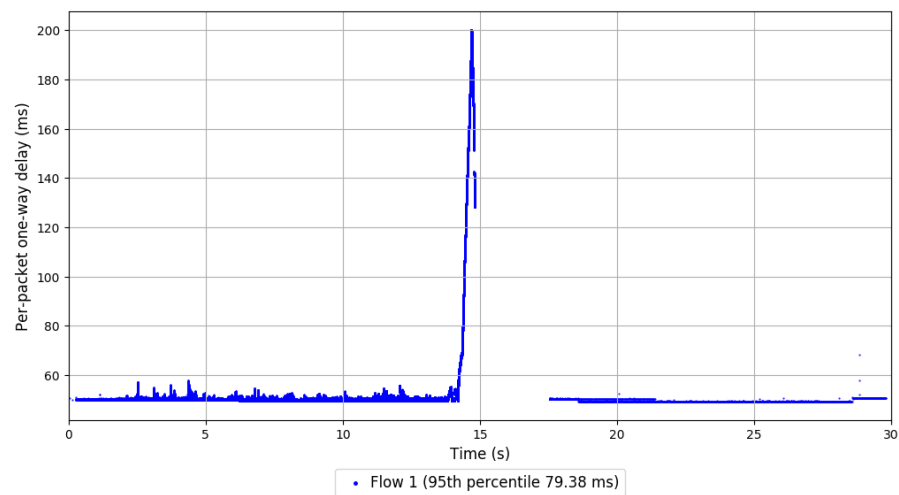
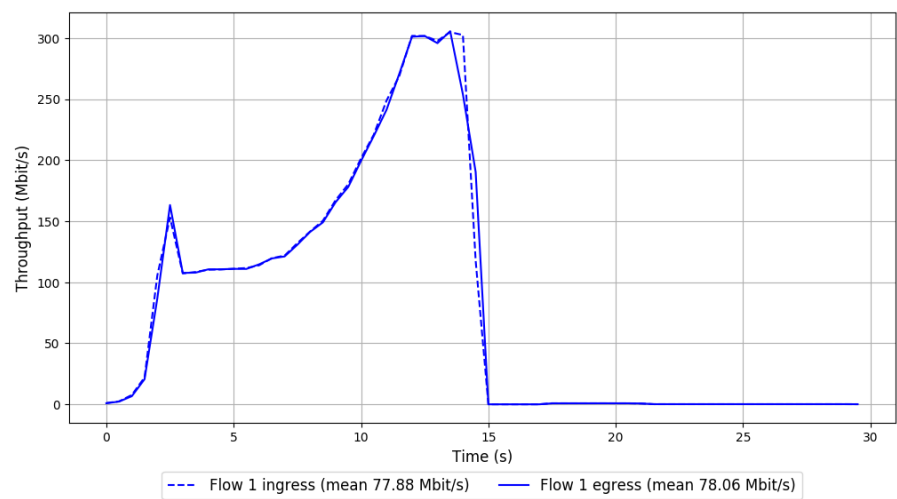
-- Flow 1:

Average throughput: 78.06 Mbit/s

95th percentile per-packet one-way delay: 79.378 ms

Loss rate: 0.12%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-16 15:34:38

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

Below is generated by plot.py at 2018-01-16 20:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.08 Mbit/s

95th percentile per-packet one-way delay: 50.665 ms

Loss rate: 0.52%

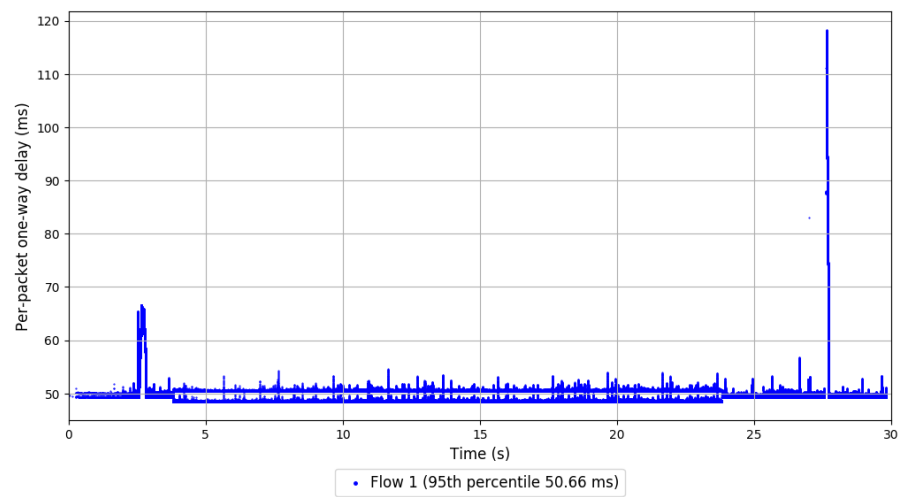
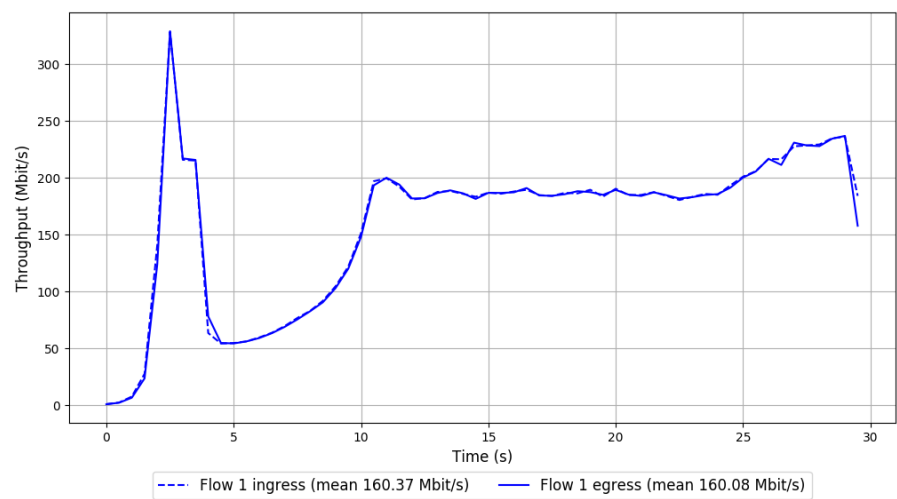
-- Flow 1:

Average throughput: 160.08 Mbit/s

95th percentile per-packet one-way delay: 50.665 ms

Loss rate: 0.52%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 15:49:21

End at: 2018-01-16 15:49:51

Below is generated by plot.py at 2018-01-16 20:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 93.037 ms

Loss rate: 0.06%

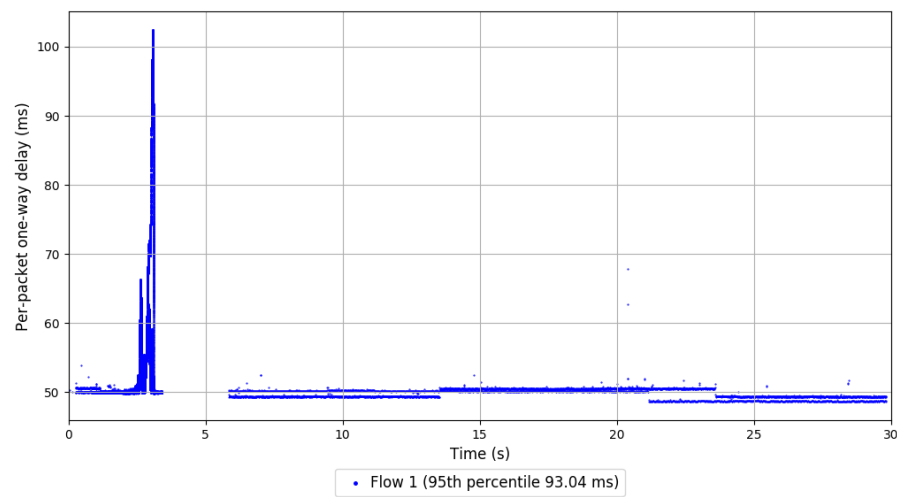
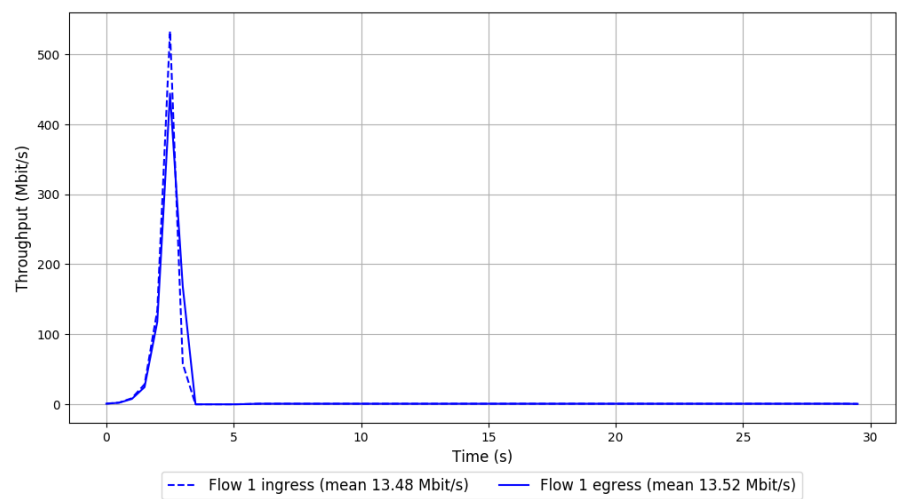
-- Flow 1:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 93.037 ms

Loss rate: 0.06%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 16:04:03

End at: 2018-01-16 16:04:33

Below is generated by plot.py at 2018-01-16 20:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 52.807 ms

Loss rate: 0.05%

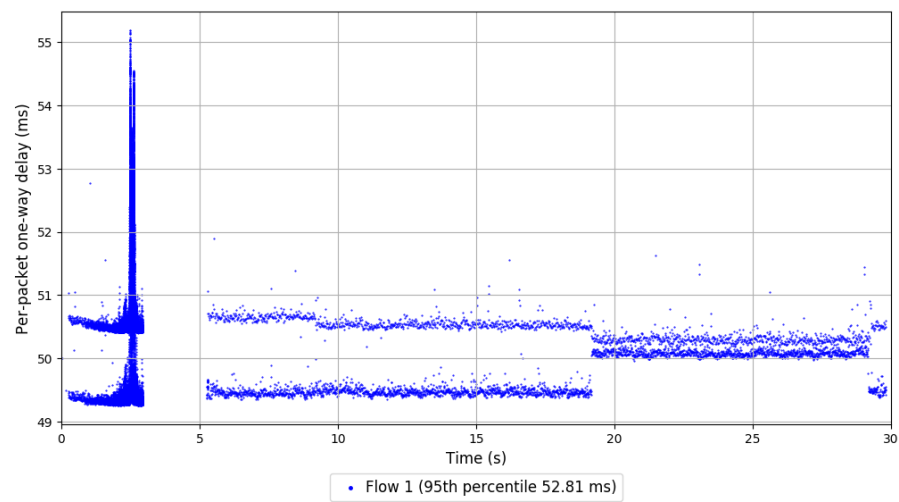
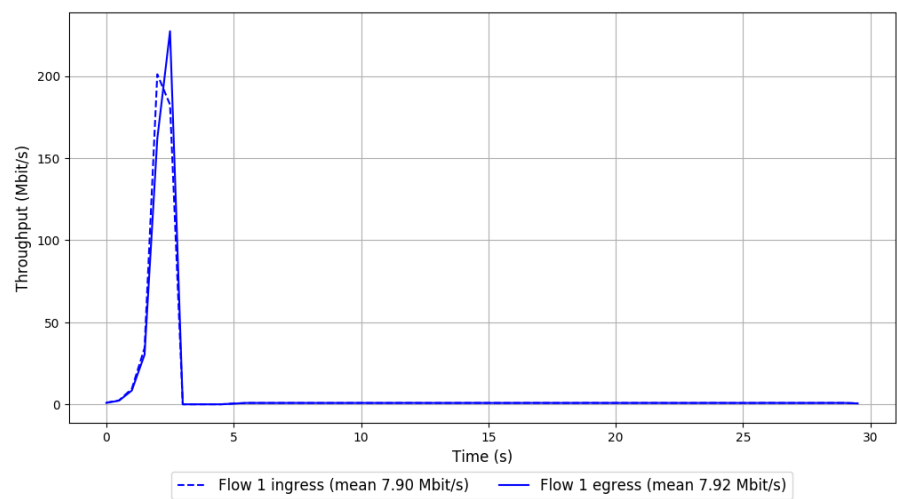
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 52.807 ms

Loss rate: 0.05%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-16 16:18:43

End at: 2018-01-16 16:19:13

Below is generated by plot.py at 2018-01-16 20:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.95 Mbit/s

95th percentile per-packet one-way delay: 169.369 ms

Loss rate: 0.01%

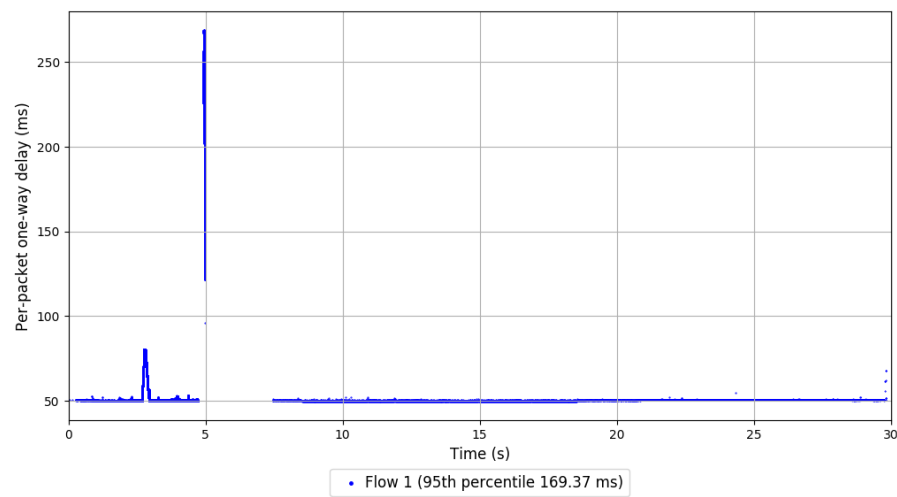
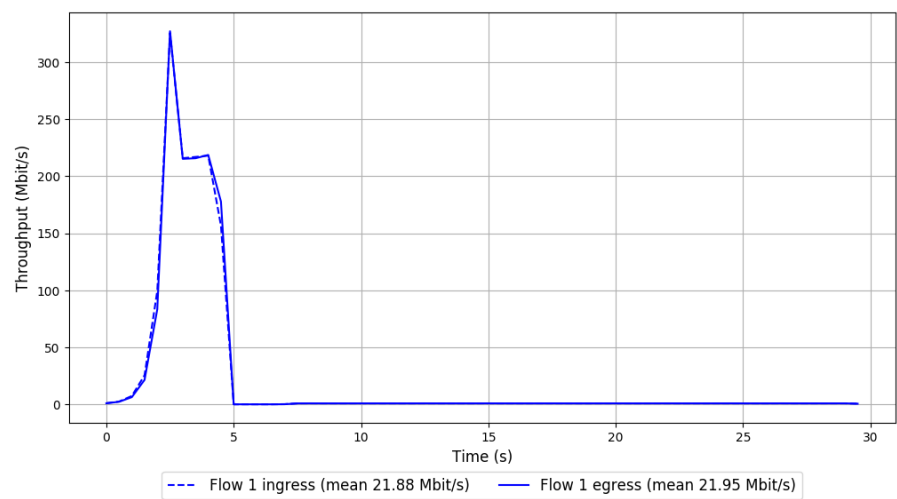
-- Flow 1:

Average throughput: 21.95 Mbit/s

95th percentile per-packet one-way delay: 169.369 ms

Loss rate: 0.01%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-16 16:33:31

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

Below is generated by plot.py at 2018-01-16 20:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 133.762 ms

Loss rate: 6.73%

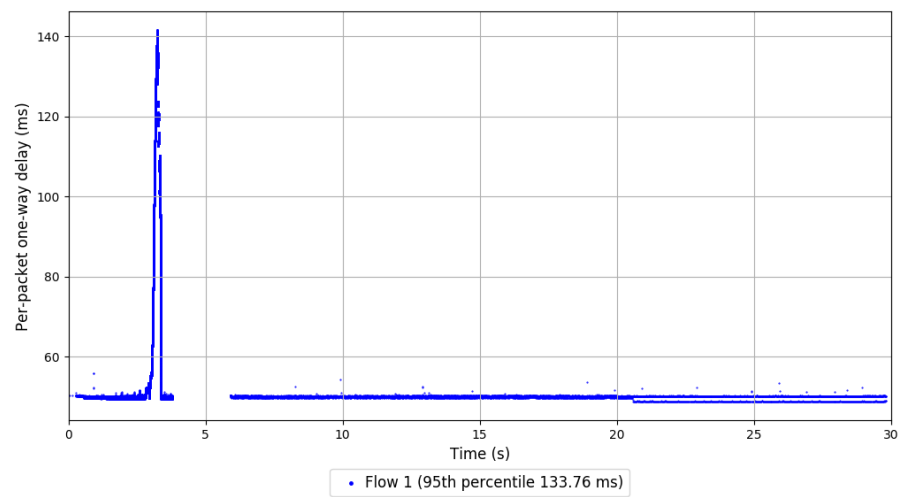
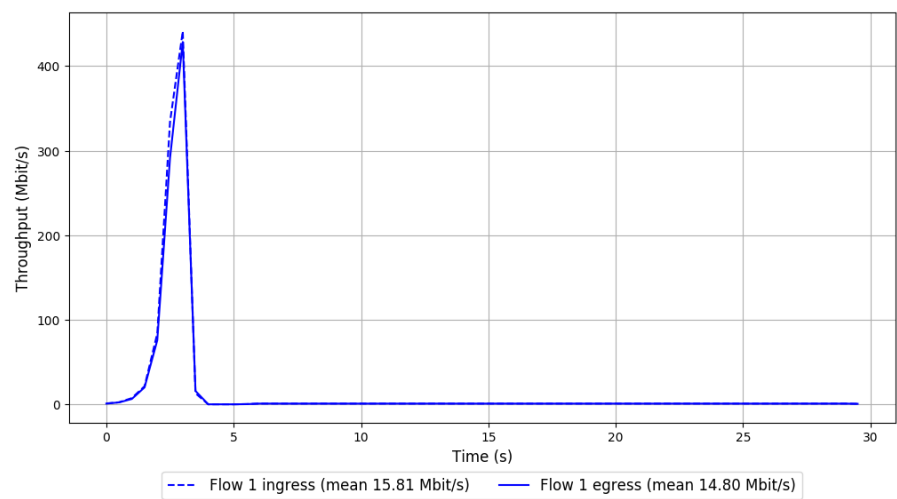
-- Flow 1:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 133.762 ms

Loss rate: 6.73%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-16 16:48:09

End at: 2018-01-16 16:48:40

Below is generated by plot.py at 2018-01-16 20:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.55 Mbit/s

95th percentile per-packet one-way delay: 109.011 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 226.55 Mbit/s

95th percentile per-packet one-way delay: 109.011 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

