

Pantheon Report

Generated at 2018-01-30 23:36:20 (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.

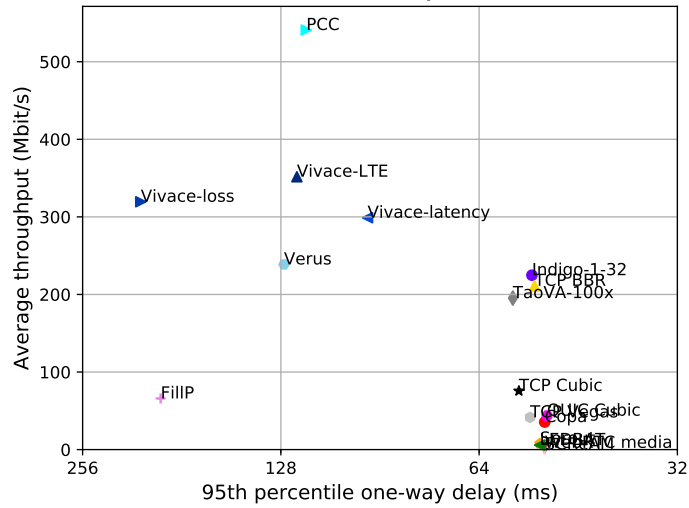
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

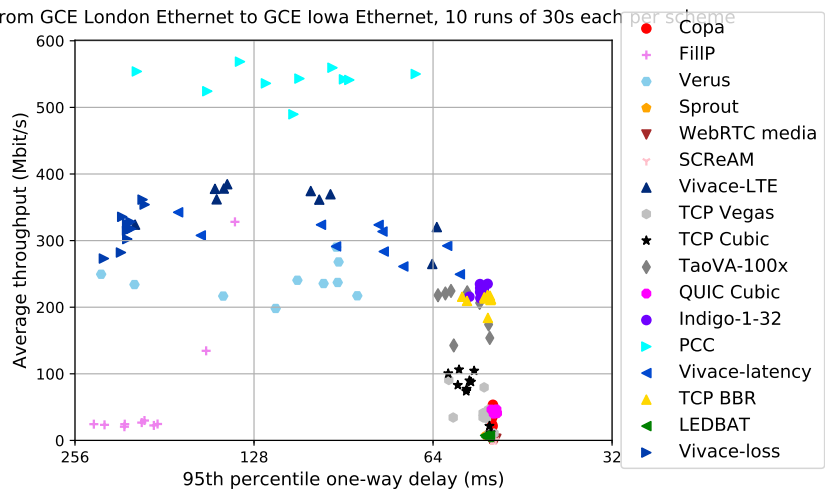
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE London Ethernet to GCE 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	211.08	52.73	0.47
TCP Cubic	10	75.64	55.70	0.67
LEDBAT	8	5.88	51.79	1.41
PCC	10	540.90	117.12	1.11
QUIC Cubic	6	43.69	50.48	0.58
SCReAM	8	0.22	50.92	0.37
WebRTC media	10	2.26	50.90	0.38
Sprout	10	7.67	51.75	1.55
TaoVA-100x	8	195.28	56.88	0.35
TCP Vegas	10	41.51	53.56	0.57
Verus	10	238.68	126.63	2.29
Copa	10	35.49	50.88	0.20
FillP	10	65.91	194.87	12.88
Indigo-1-32	10	224.82	53.21	0.47
Vivace-latency	10	298.88	94.54	0.59
Vivace-loss	10	319.46	208.87	7.55
Vivace-LTE	10	351.76	121.02	0.72

Run 1: Statistics of TCP BBR

Start at: 2018-01-30 17:49:34

End at: 2018-01-30 17:50:04

Below is generated by plot.py at 2018-01-30 22:31:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.78 Mbit/s

95th percentile per-packet one-way delay: 51.236 ms

Loss rate: 0.54%

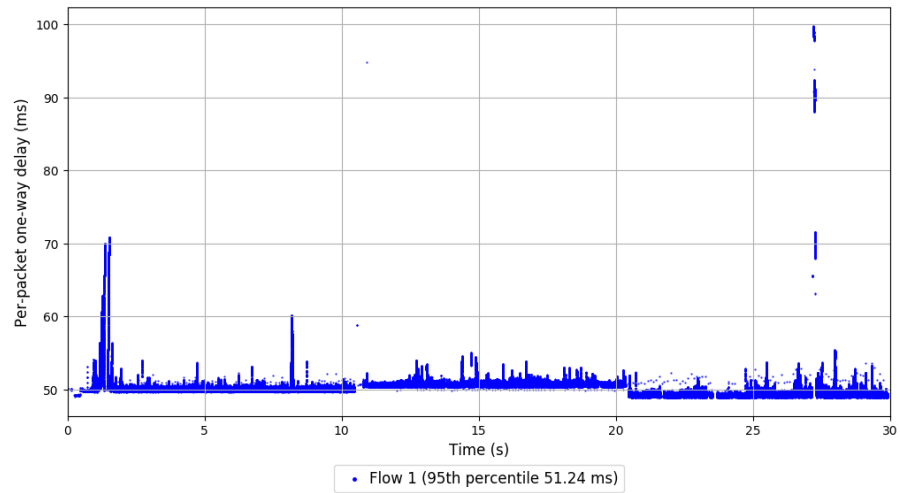
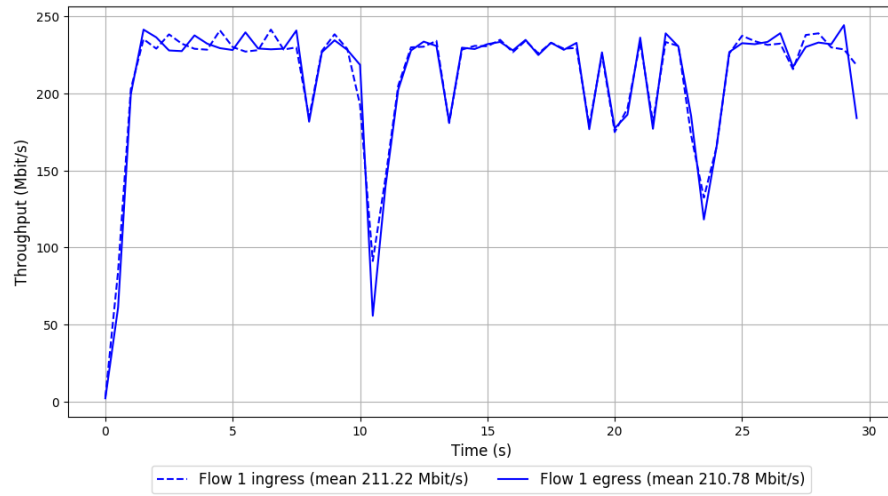
-- Flow 1:

Average throughput: 210.78 Mbit/s

95th percentile per-packet one-way delay: 51.236 ms

Loss rate: 0.54%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-30 18:03:27

End at: 2018-01-30 18:03:58

Below is generated by plot.py at 2018-01-30 22:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.98 Mbit/s

95th percentile per-packet one-way delay: 52.481 ms

Loss rate: 0.56%

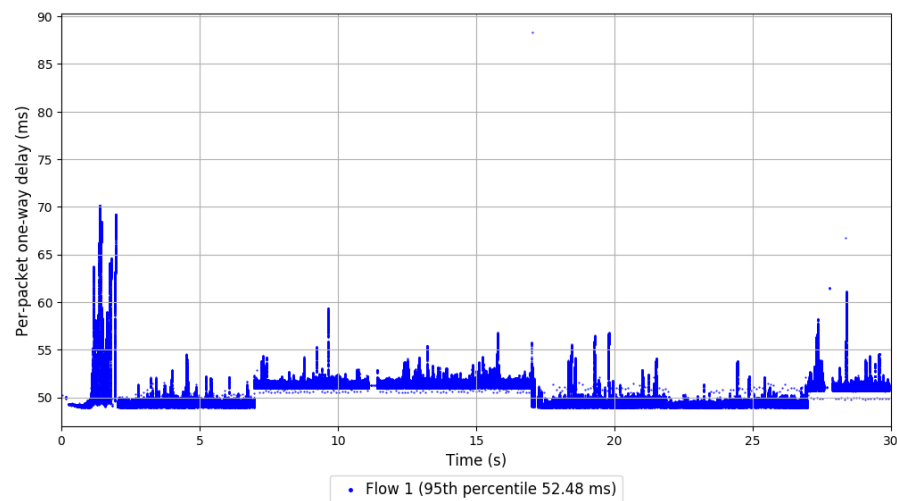
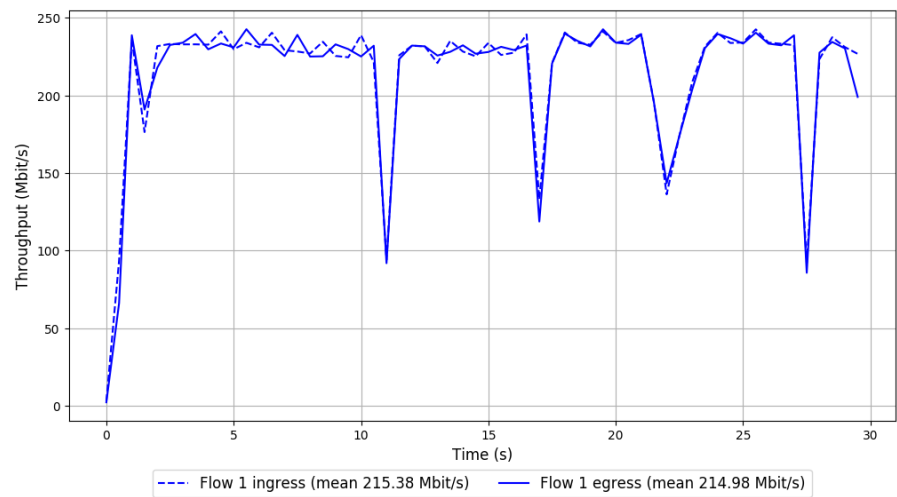
-- Flow 1:

Average throughput: 214.98 Mbit/s

95th percentile per-packet one-way delay: 52.481 ms

Loss rate: 0.56%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-30 18:17:24

End at: 2018-01-30 18:17:54

Below is generated by plot.py at 2018-01-30 22:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.06 Mbit/s

95th percentile per-packet one-way delay: 52.421 ms

Loss rate: 0.55%

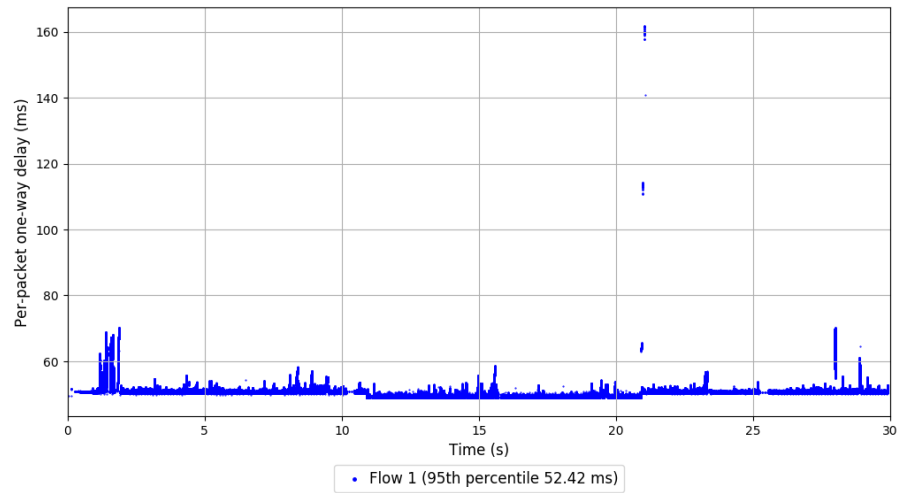
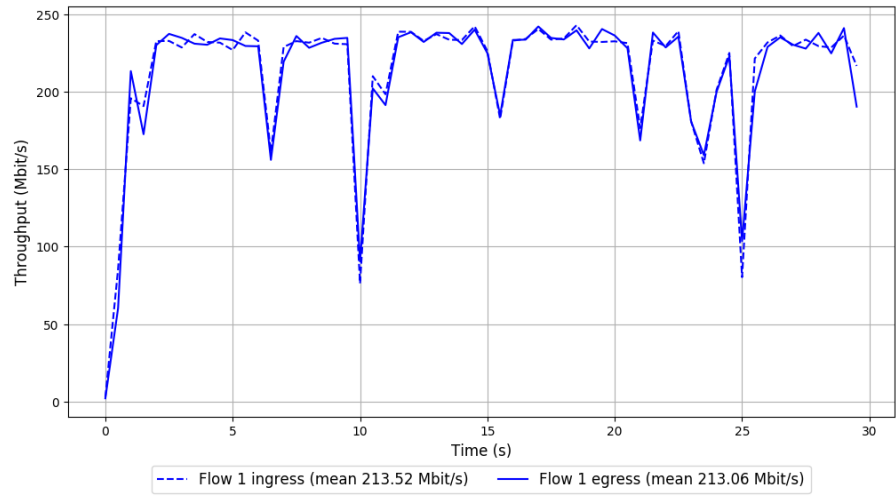
-- Flow 1:

Average throughput: 213.06 Mbit/s

95th percentile per-packet one-way delay: 52.421 ms

Loss rate: 0.55%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-30 18:31:12

End at: 2018-01-30 18:31:42

Below is generated by plot.py at 2018-01-30 22:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.26 Mbit/s

95th percentile per-packet one-way delay: 51.140 ms

Loss rate: 0.56%

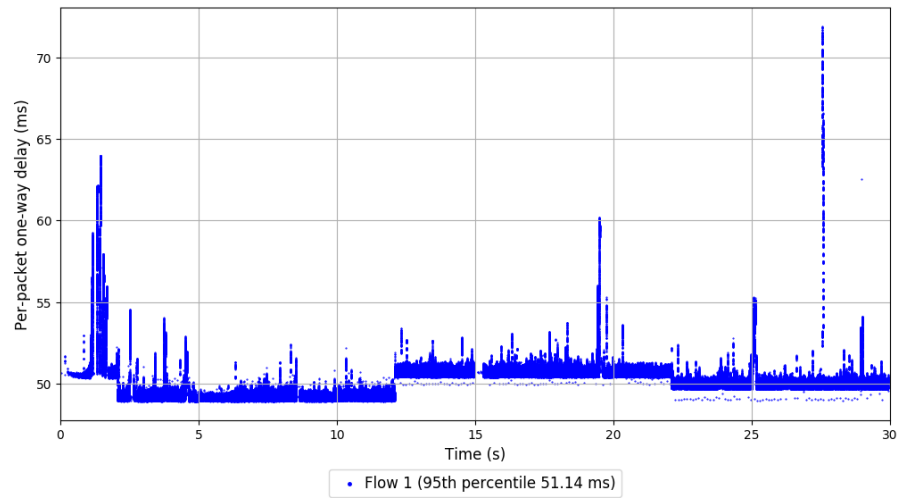
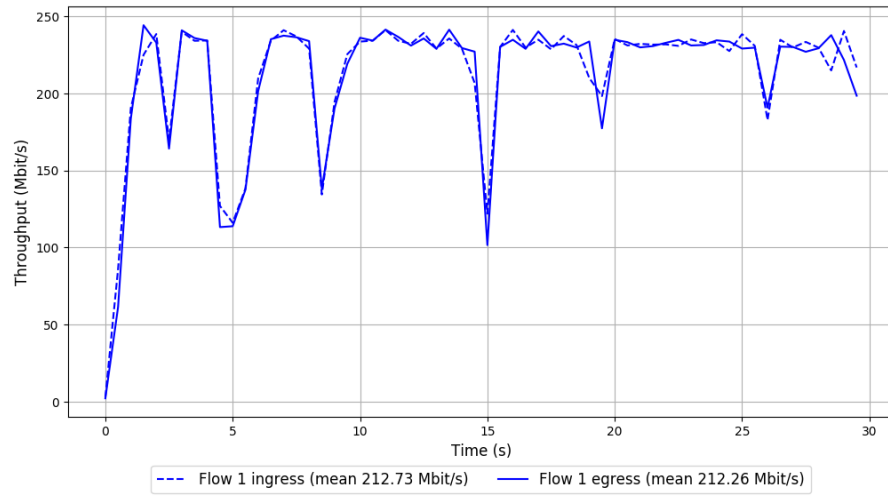
-- Flow 1:

Average throughput: 212.26 Mbit/s

95th percentile per-packet one-way delay: 51.140 ms

Loss rate: 0.56%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-30 18:45:13

End at: 2018-01-30 18:45:43

Below is generated by plot.py at 2018-01-30 22:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.98 Mbit/s

95th percentile per-packet one-way delay: 51.759 ms

Loss rate: 0.65%

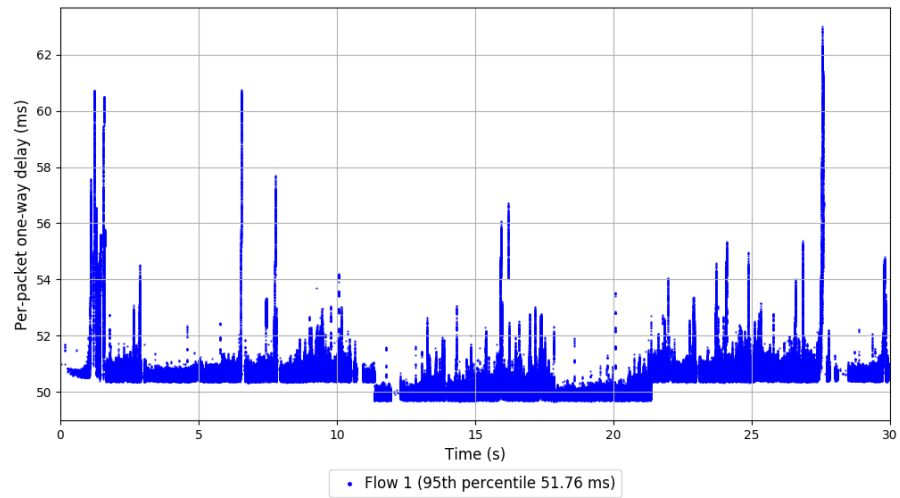
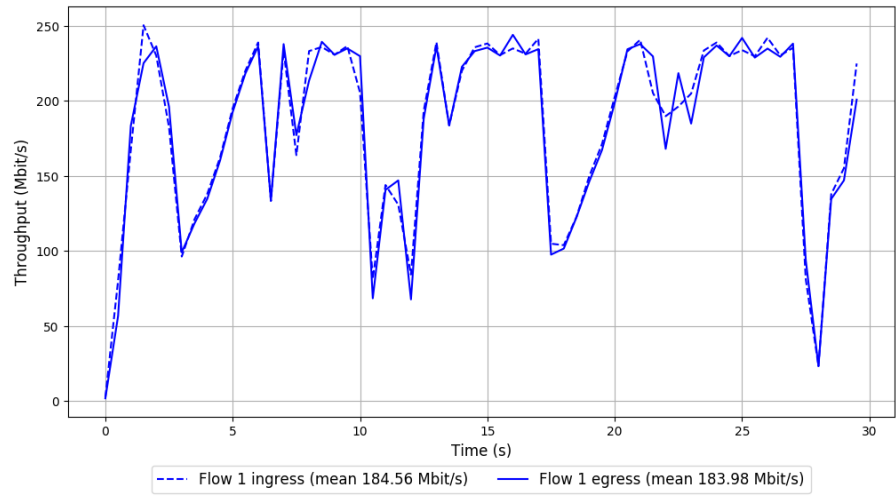
-- Flow 1:

Average throughput: 183.98 Mbit/s

95th percentile per-packet one-way delay: 51.759 ms

Loss rate: 0.65%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-30 18:59:05

End at: 2018-01-30 18:59:35

Below is generated by plot.py at 2018-01-30 22:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.05 Mbit/s

95th percentile per-packet one-way delay: 51.801 ms

Loss rate: 0.37%

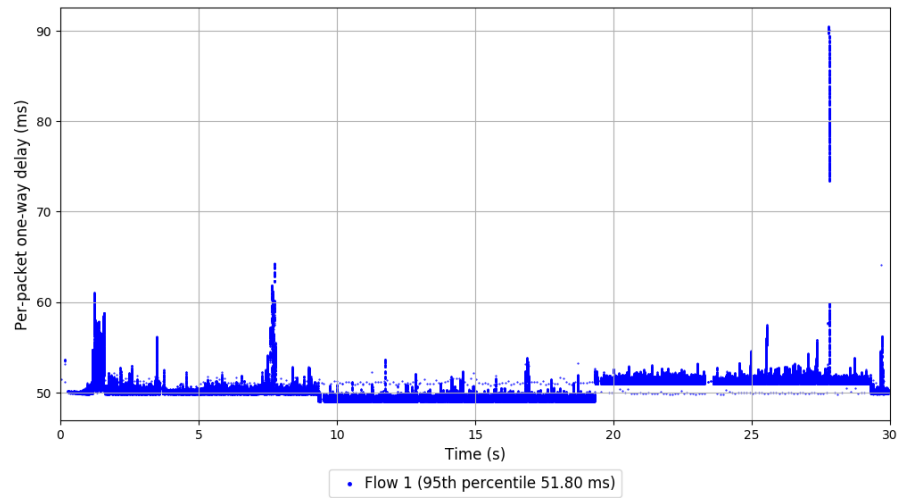
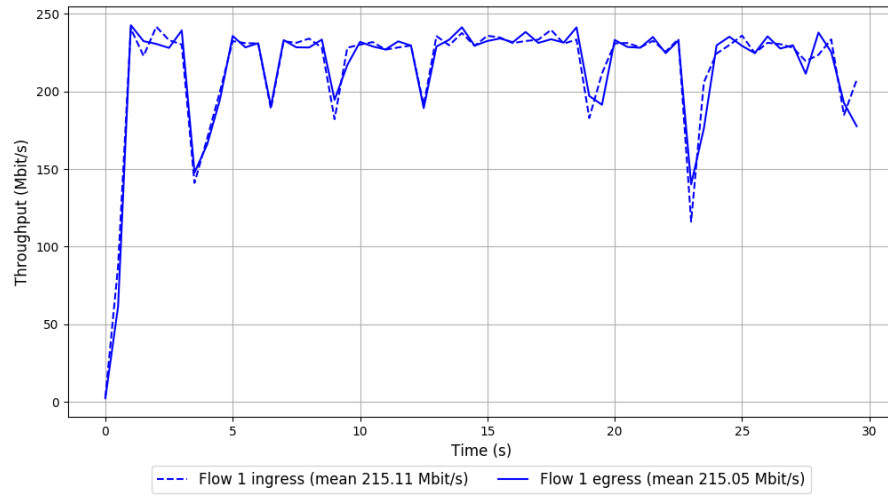
-- Flow 1:

Average throughput: 215.05 Mbit/s

95th percentile per-packet one-way delay: 51.801 ms

Loss rate: 0.37%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-30 19:13:25

End at: 2018-01-30 19:13:55

Below is generated by plot.py at 2018-01-30 22:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.24 Mbit/s

95th percentile per-packet one-way delay: 51.340 ms

Loss rate: 0.36%

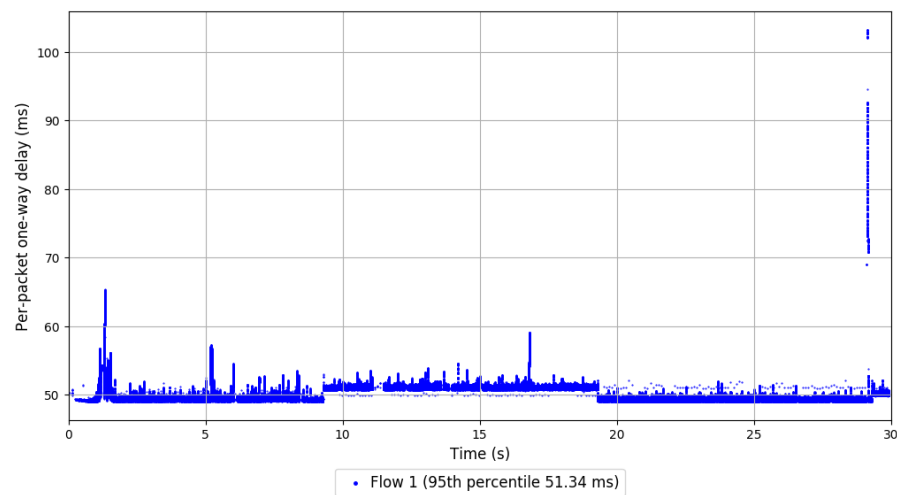
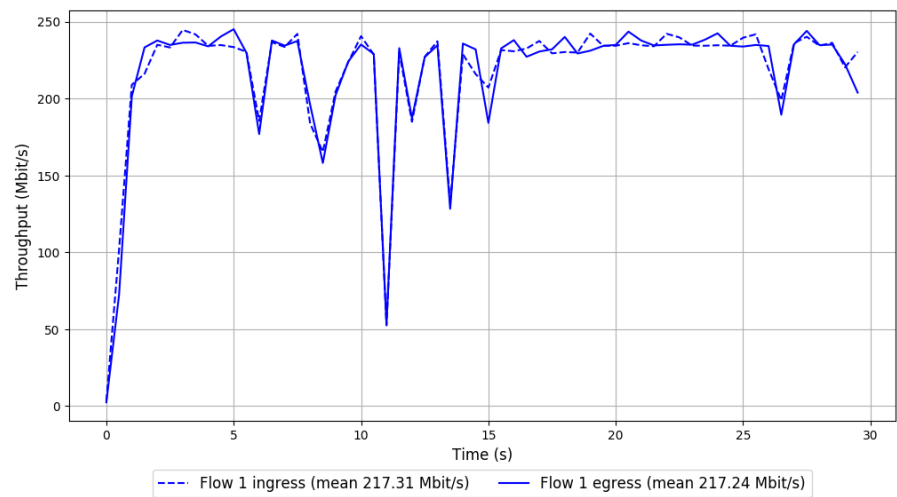
-- Flow 1:

Average throughput: 217.24 Mbit/s

95th percentile per-packet one-way delay: 51.340 ms

Loss rate: 0.36%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-30 19:27:22

End at: 2018-01-30 19:27:52

Below is generated by plot.py at 2018-01-30 22:31:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.27 Mbit/s

95th percentile per-packet one-way delay: 51.833 ms

Loss rate: 0.36%

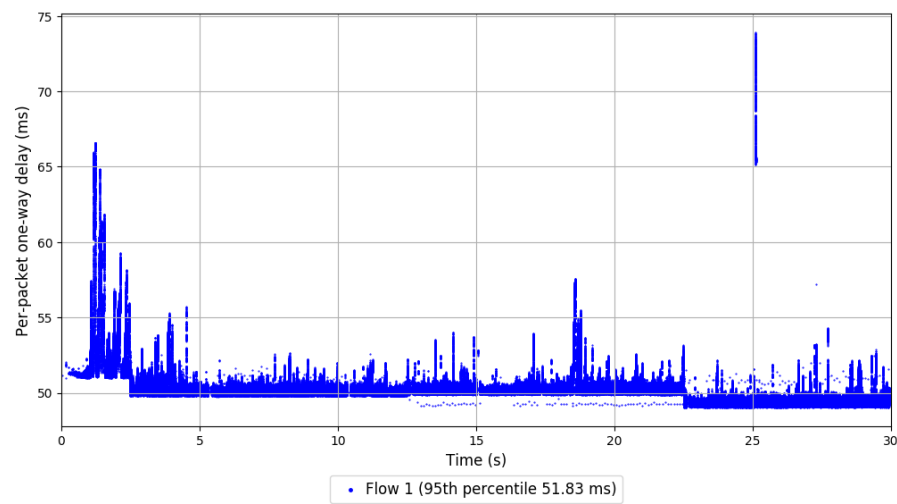
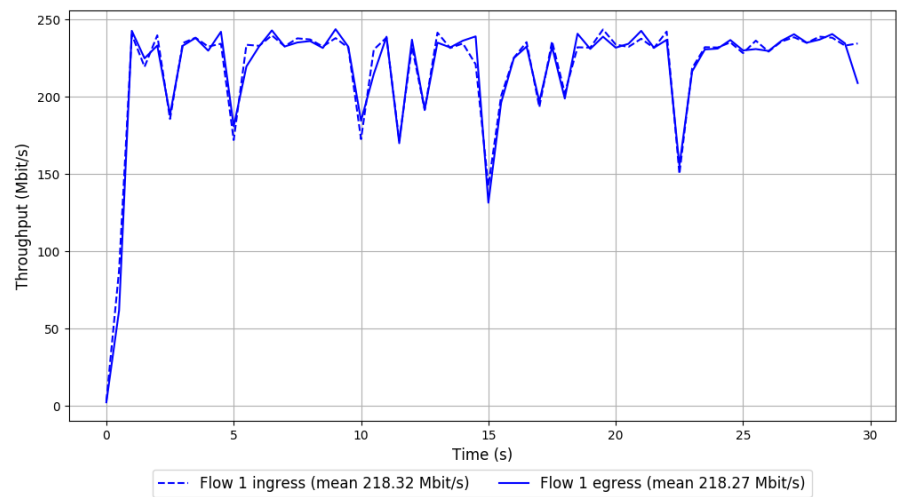
-- Flow 1:

Average throughput: 218.27 Mbit/s

95th percentile per-packet one-way delay: 51.833 ms

Loss rate: 0.36%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-30 19:41:14

End at: 2018-01-30 19:41:44

Below is generated by plot.py at 2018-01-30 22:35:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.73 Mbit/s

95th percentile per-packet one-way delay: 57.178 ms

Loss rate: 0.58%

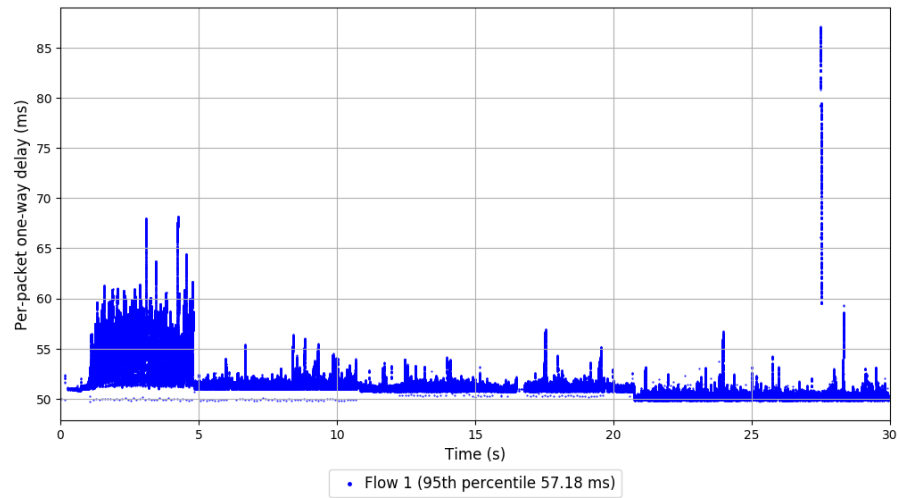
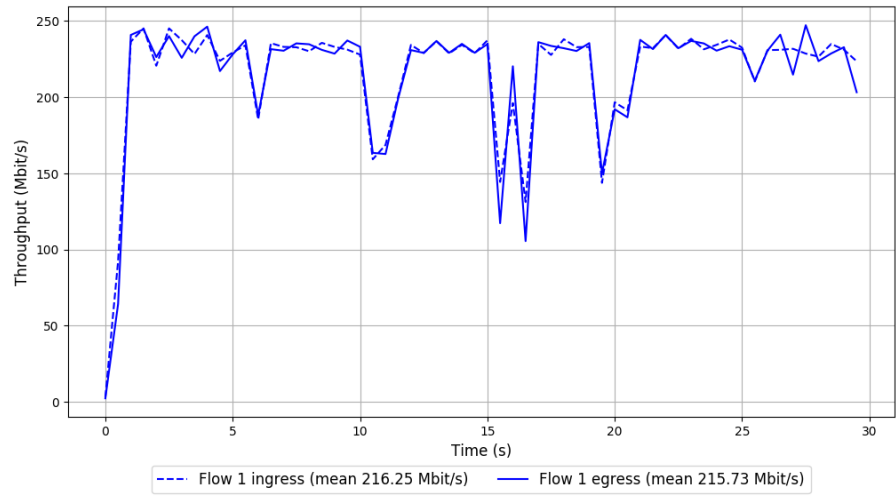
-- Flow 1:

Average throughput: 215.73 Mbit/s

95th percentile per-packet one-way delay: 57.178 ms

Loss rate: 0.58%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-30 19:55:22

End at: 2018-01-30 19:55:52

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.42 Mbit/s

95th percentile per-packet one-way delay: 56.113 ms

Loss rate: 0.16%

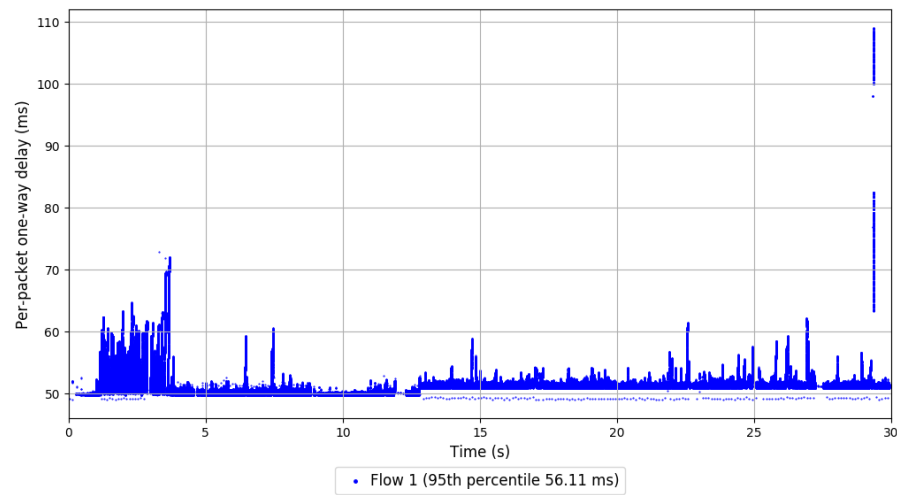
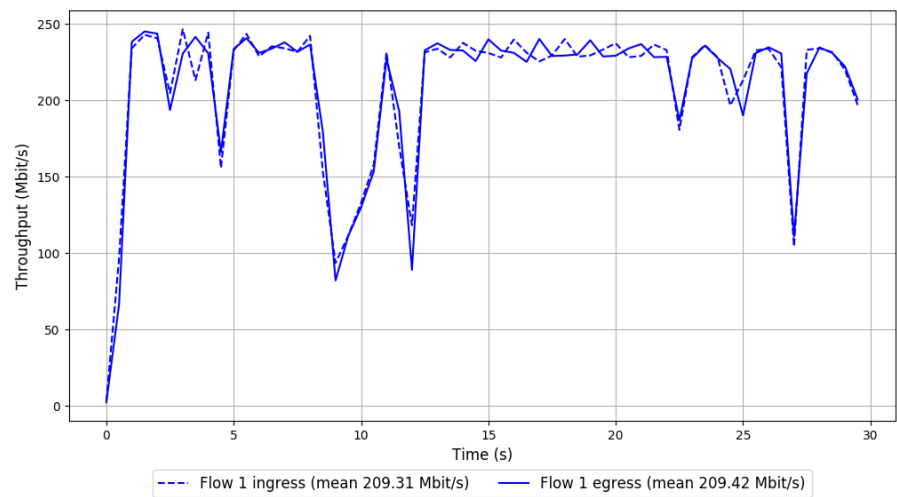
-- Flow 1:

Average throughput: 209.42 Mbit/s

95th percentile per-packet one-way delay: 56.113 ms

Loss rate: 0.16%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-30 17:48:53

End at: 2018-01-30 17:49:23

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 56.285 ms

Loss rate: 0.46%

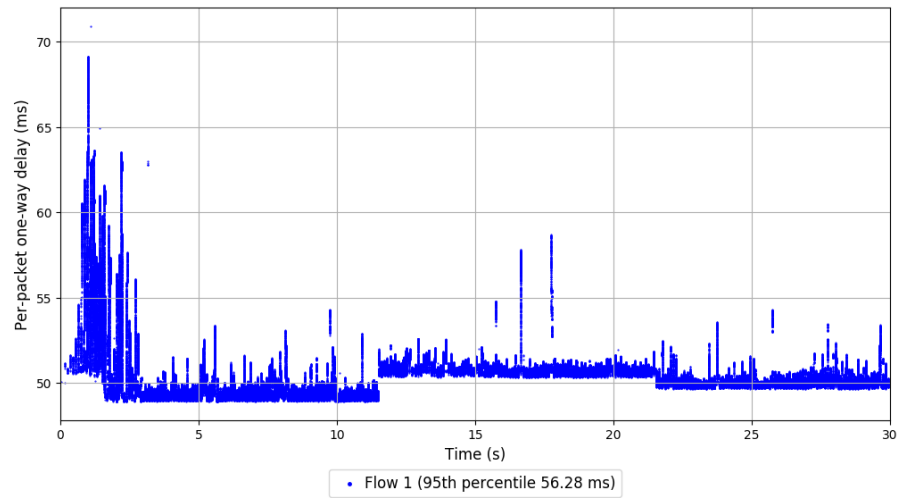
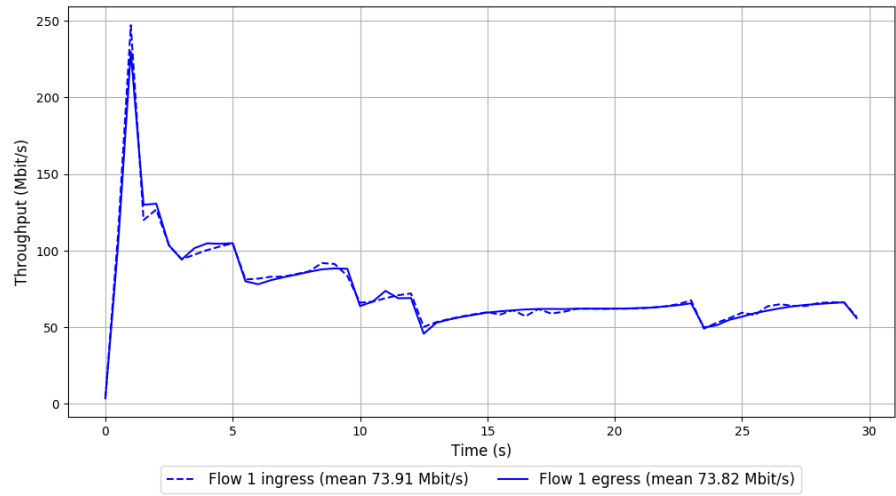
-- Flow 1:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 56.285 ms

Loss rate: 0.46%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-30 18:02:49

End at: 2018-01-30 18:03:19

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.69 Mbit/s

95th percentile per-packet one-way delay: 51.447 ms

Loss rate: 1.47%

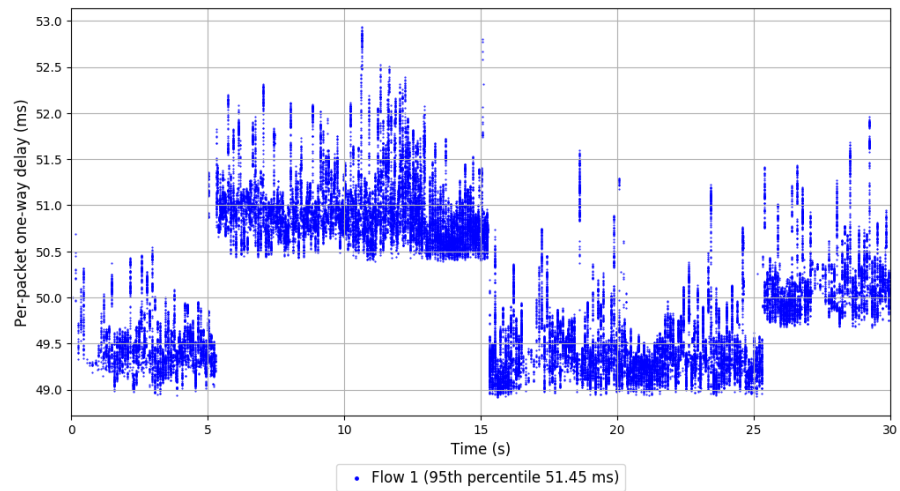
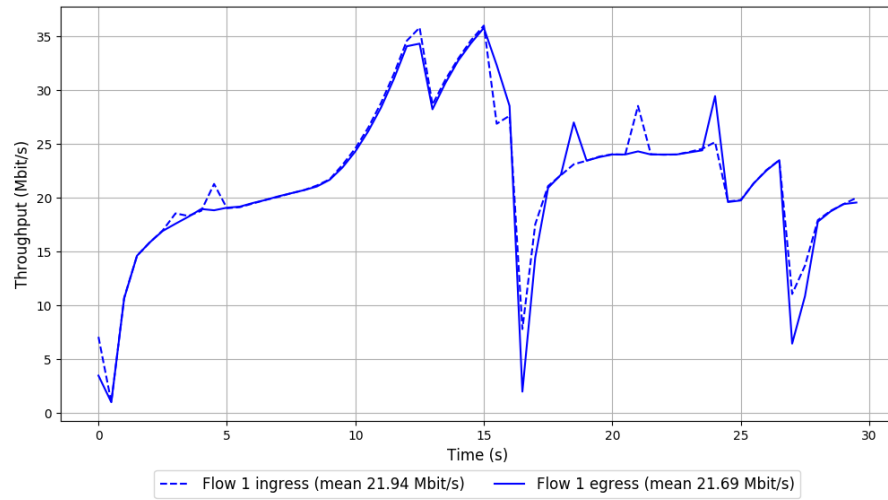
-- Flow 1:

Average throughput: 21.69 Mbit/s

95th percentile per-packet one-way delay: 51.447 ms

Loss rate: 1.47%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-30 18:16:42

End at: 2018-01-30 18:17:12

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 55.586 ms

Loss rate: 0.39%

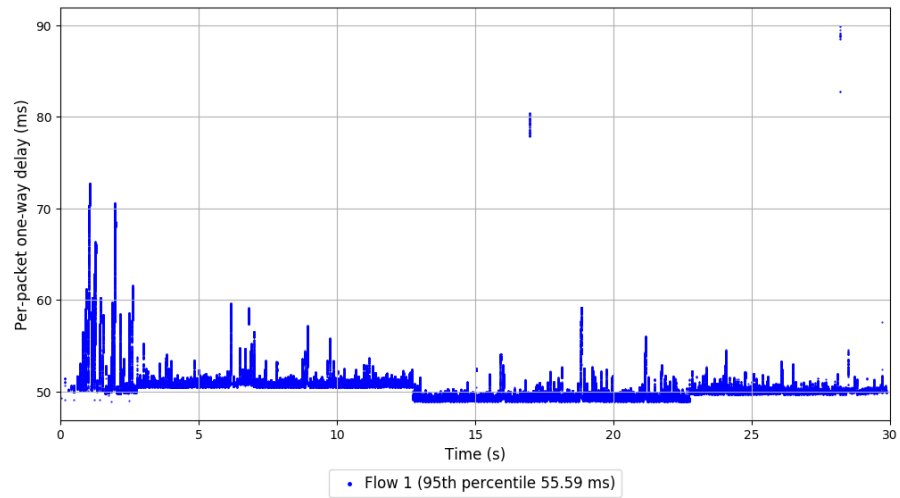
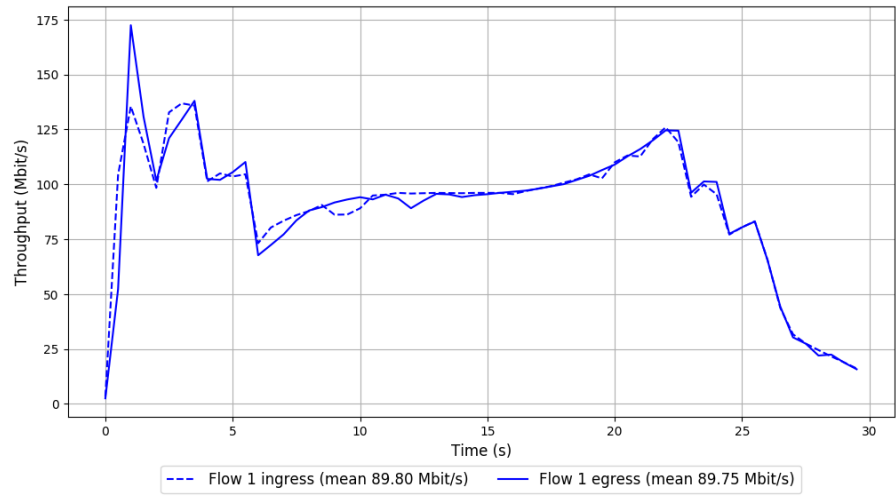
-- Flow 1:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 55.586 ms

Loss rate: 0.39%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-30 18:30:35

End at: 2018-01-30 18:31:05

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.51%

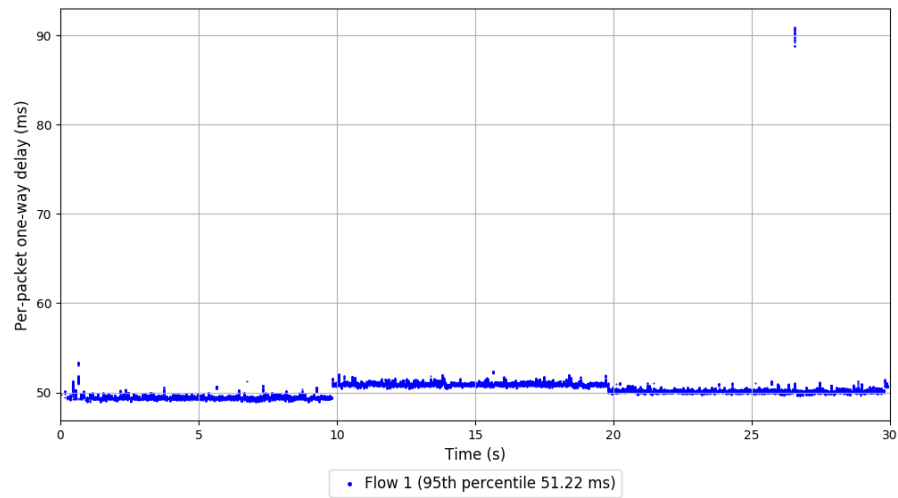
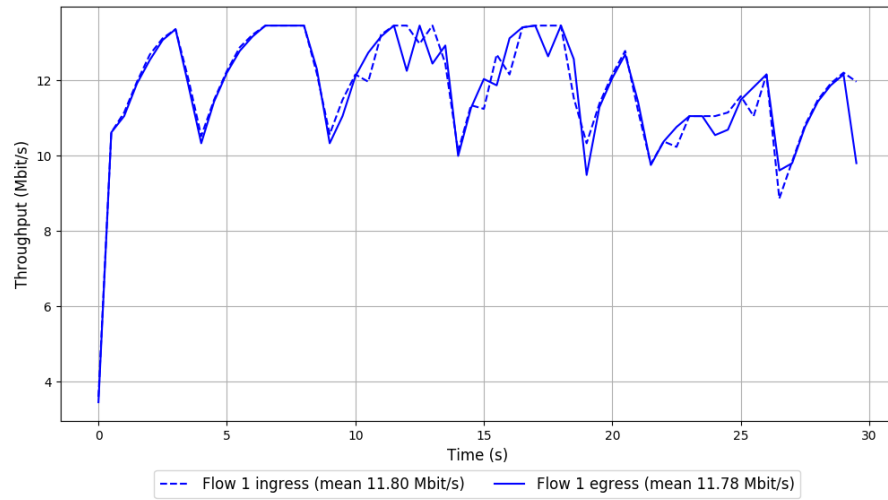
-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.51%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-30 18:44:32

End at: 2018-01-30 18:45:02

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 55.260 ms

Loss rate: 0.47%

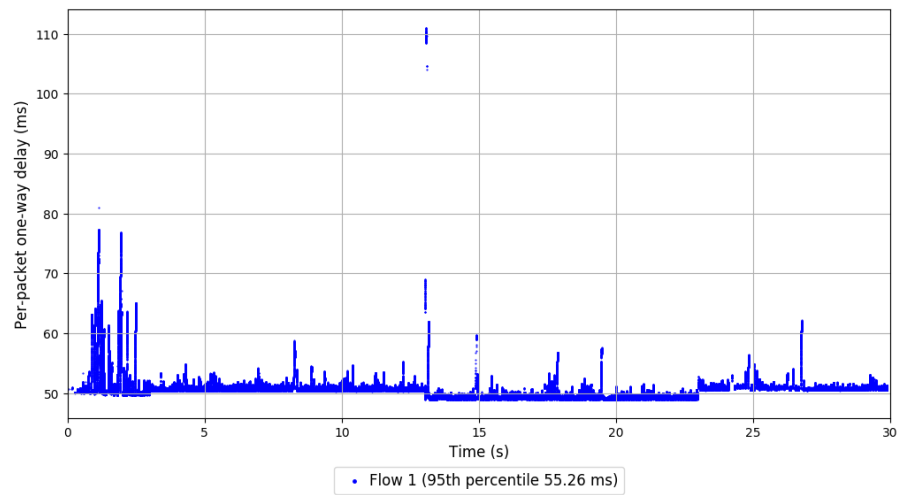
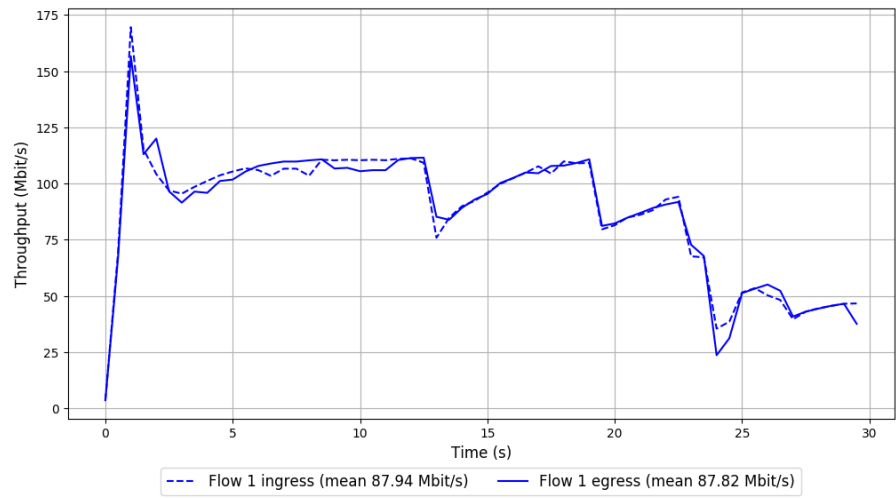
-- Flow 1:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 55.260 ms

Loss rate: 0.47%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-30 18:58:23

End at: 2018-01-30 18:58:53

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.46 Mbit/s

95th percentile per-packet one-way delay: 60.344 ms

Loss rate: 0.79%

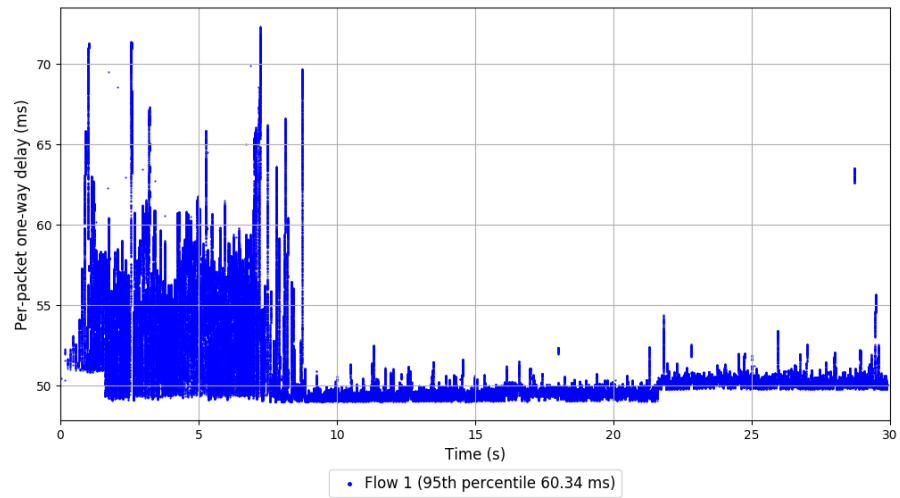
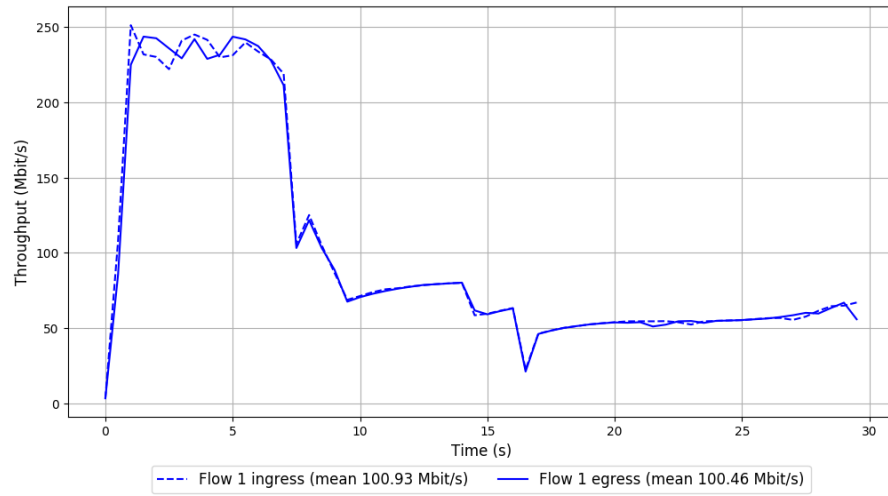
-- Flow 1:

Average throughput: 100.46 Mbit/s

95th percentile per-packet one-way delay: 60.344 ms

Loss rate: 0.79%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-30 19:12:44

End at: 2018-01-30 19:13:14

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 58.148 ms

Loss rate: 0.33%

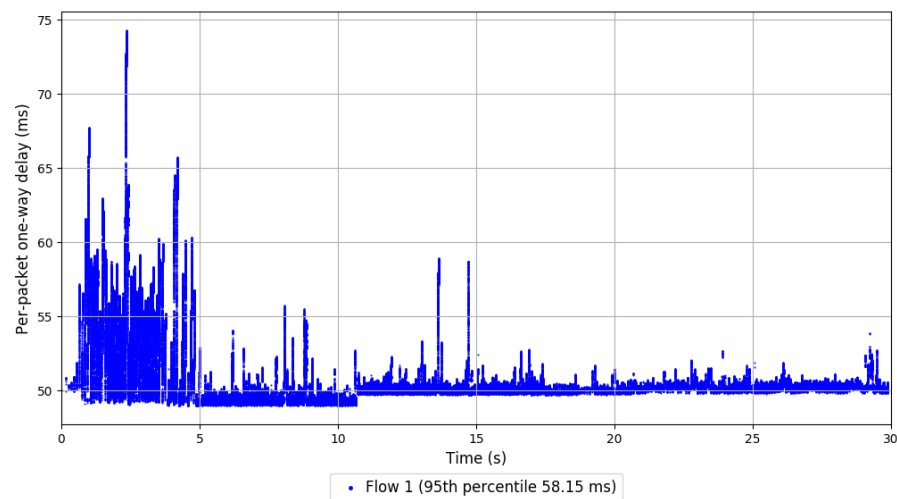
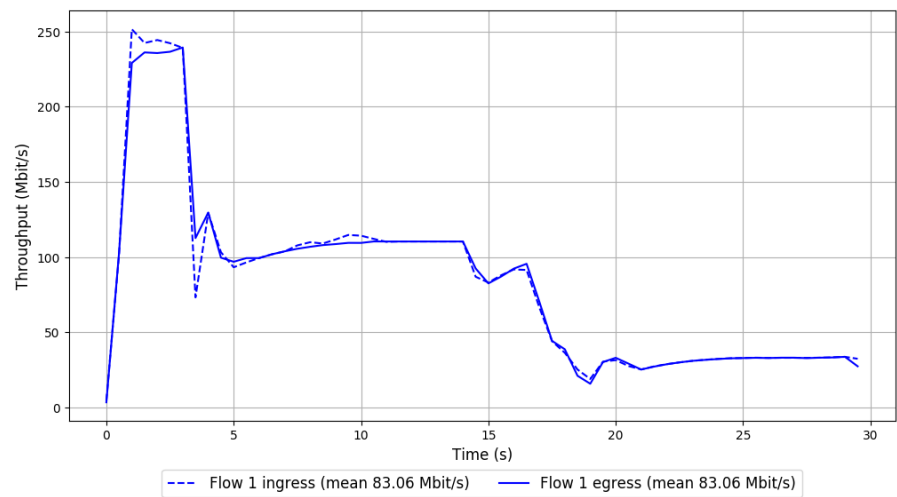
-- Flow 1:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 58.148 ms

Loss rate: 0.33%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-30 19:26:41

End at: 2018-01-30 19:27:11

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.26 Mbit/s

95th percentile per-packet one-way delay: 56.207 ms

Loss rate: 0.61%

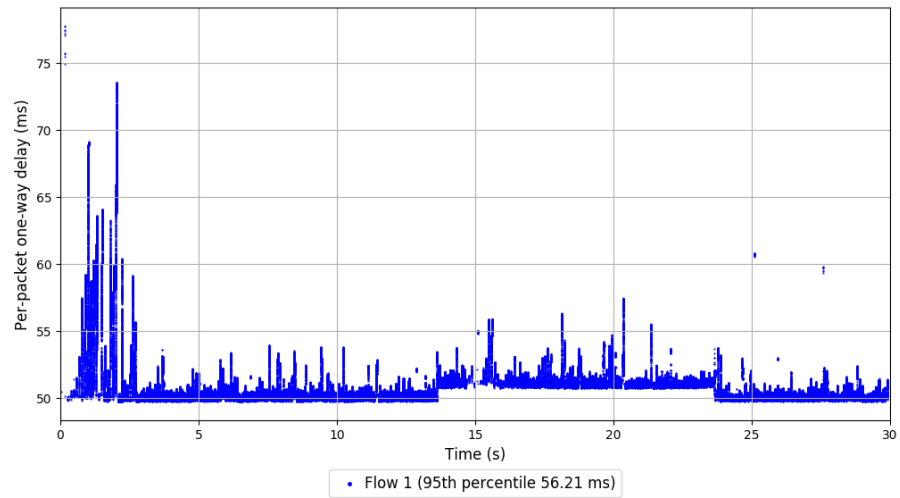
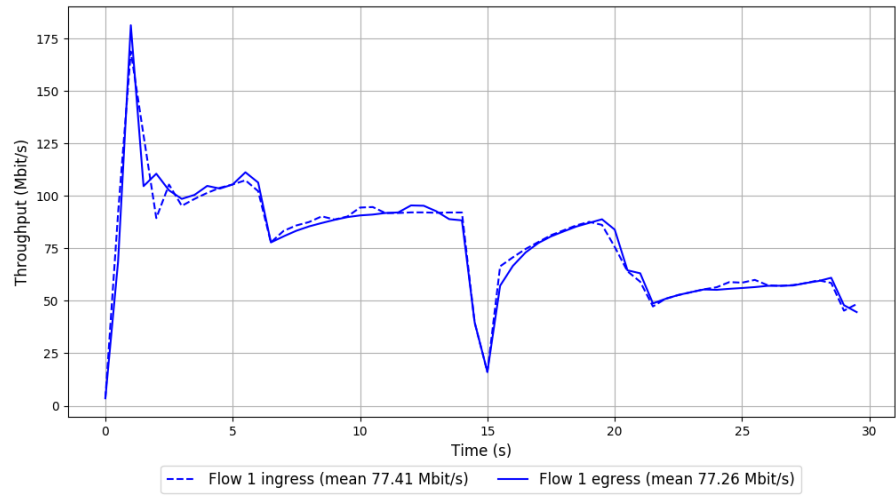
-- Flow 1:

Average throughput: 77.26 Mbit/s

95th percentile per-packet one-way delay: 56.207 ms

Loss rate: 0.61%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-30 19:40:31

End at: 2018-01-30 19:41:01

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.27 Mbit/s

95th percentile per-packet one-way delay: 57.873 ms

Loss rate: 0.94%

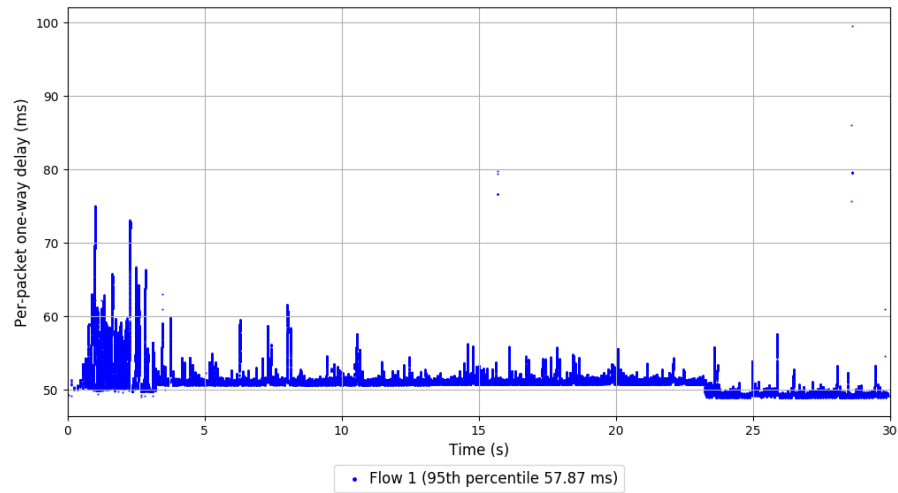
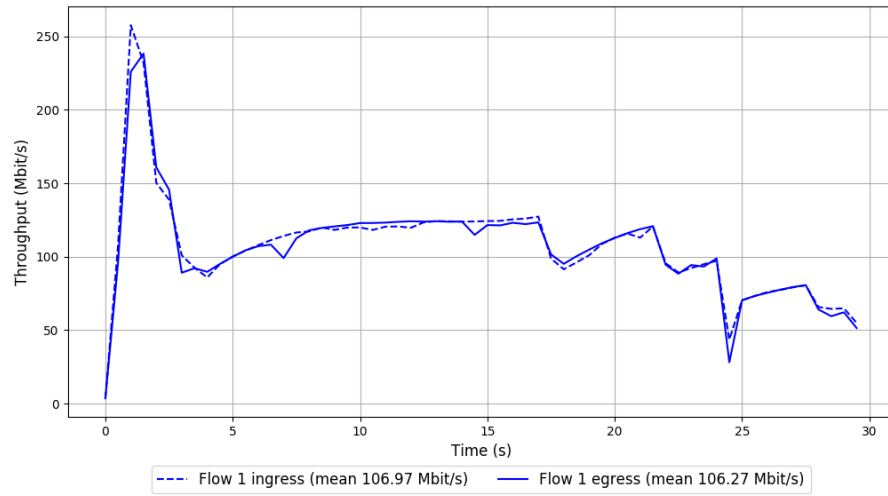
-- Flow 1:

Average throughput: 106.27 Mbit/s

95th percentile per-packet one-way delay: 57.873 ms

Loss rate: 0.94%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-30 19:54:39

End at: 2018-01-30 19:55:09

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.48 Mbit/s

95th percentile per-packet one-way delay: 54.583 ms

Loss rate: 0.77%

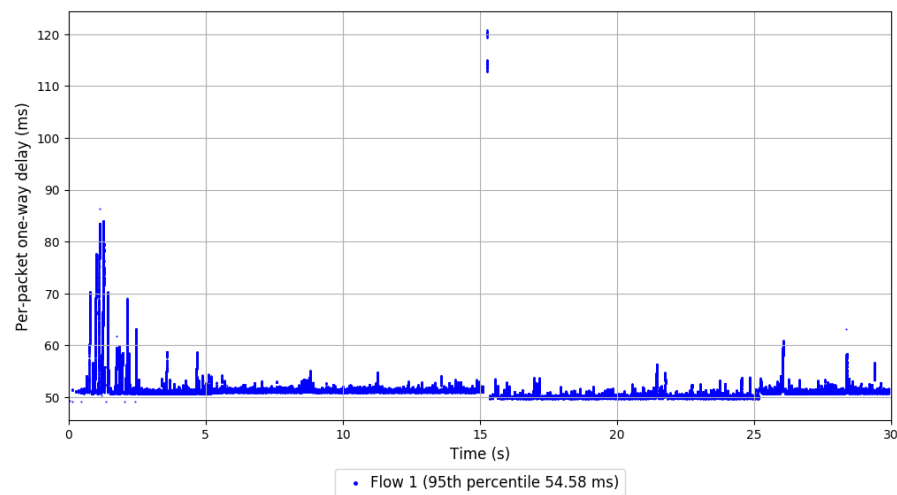
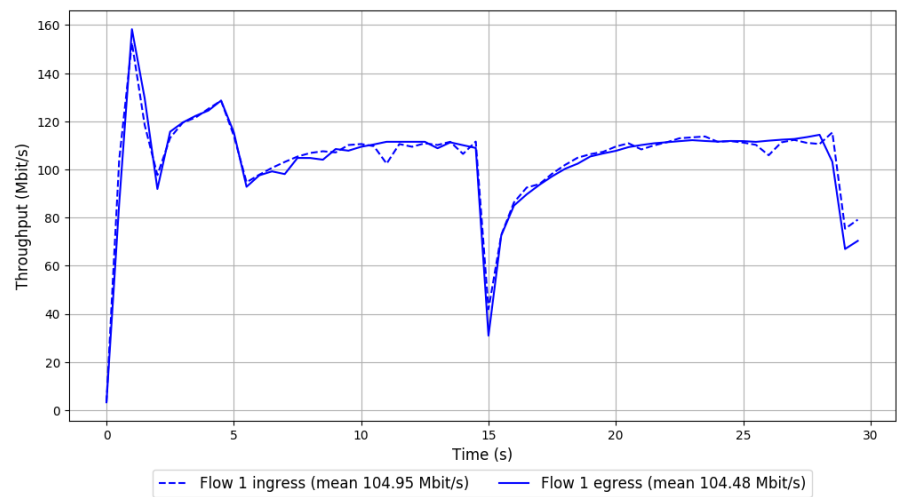
-- Flow 1:

Average throughput: 104.48 Mbit/s

95th percentile per-packet one-way delay: 54.583 ms

Loss rate: 0.77%

Run 10: Report of TCP Cubic — Data Link

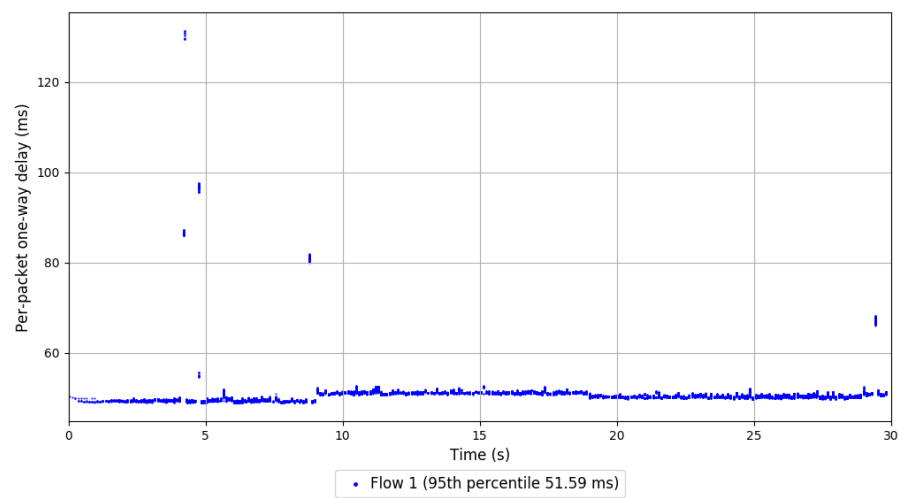
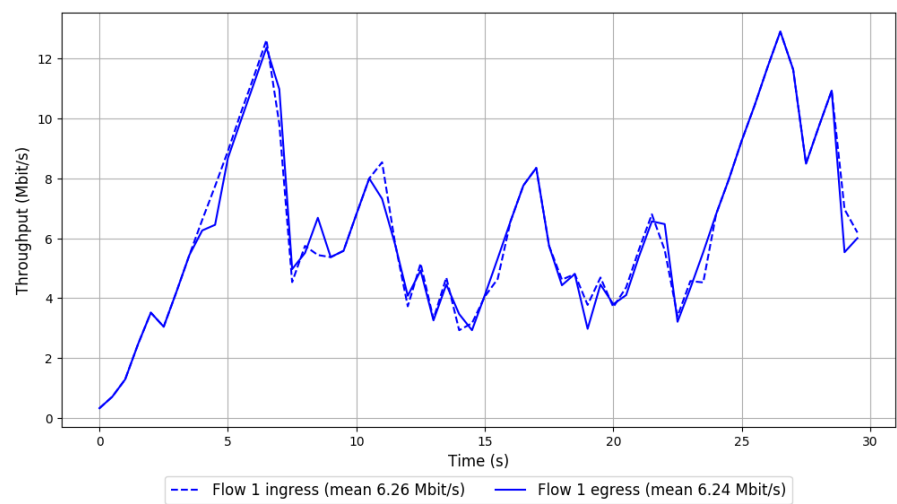


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-30 17:54:05
End at: 2018-01-30 17:54:36

# Below is generated by plot.py at 2018-01-30 22:35:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 51.590 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 51.590 ms
Loss rate: 0.65%
```


Run 1: Report of LEDBAT — Data Link

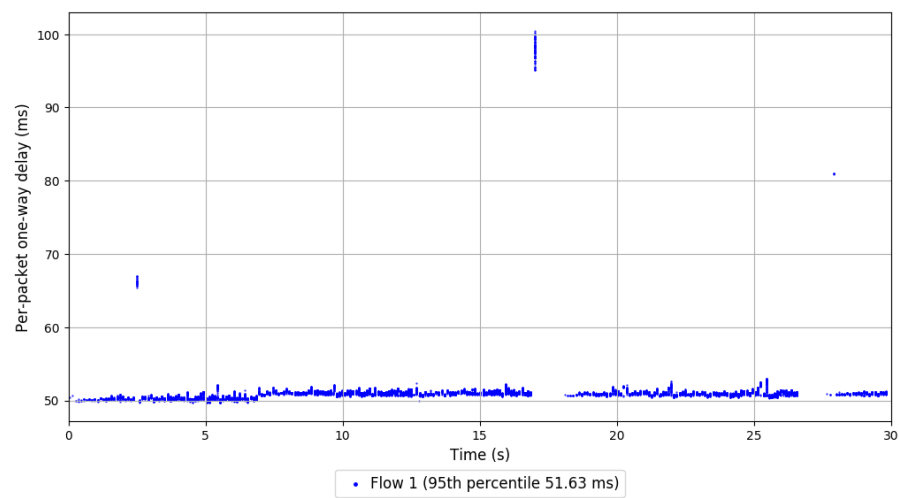
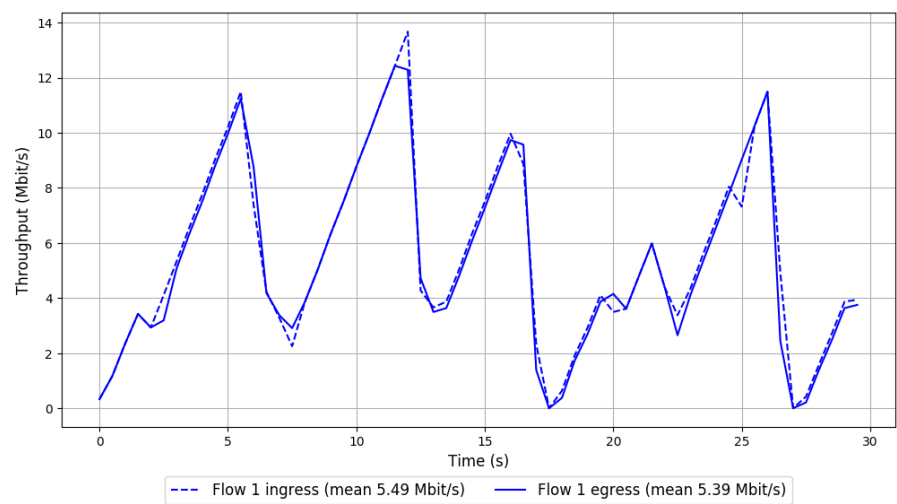


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-30 18:07:58
End at: 2018-01-30 18:08:28

# Below is generated by plot.py at 2018-01-30 22:35:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 51.629 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 51.629 ms
Loss rate: 2.10%
```

Run 2: Report of LEDBAT — Data Link

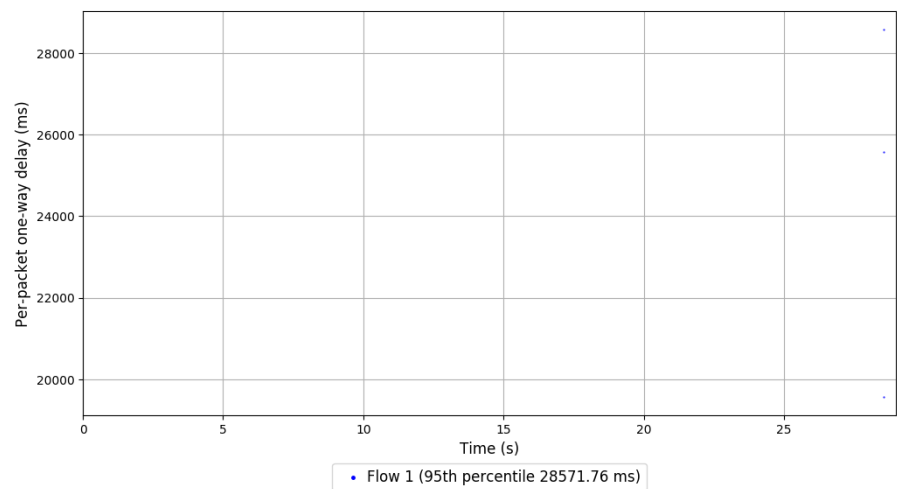
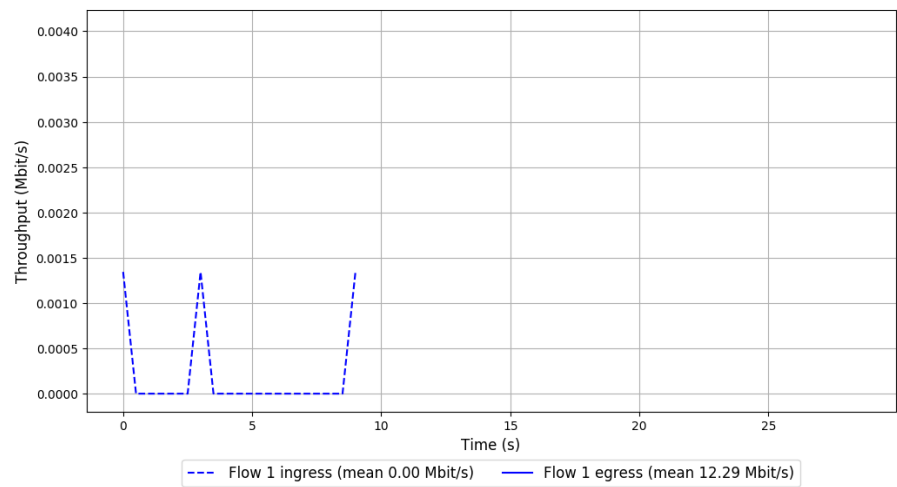


Run 3: Statistics of LEDBAT

Start at: 2018-01-30 18:21:54

End at: 2018-01-30 18:22:24

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-30 18:35:47

End at: 2018-01-30 18:36:17

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 51.644 ms

Loss rate: 1.91%

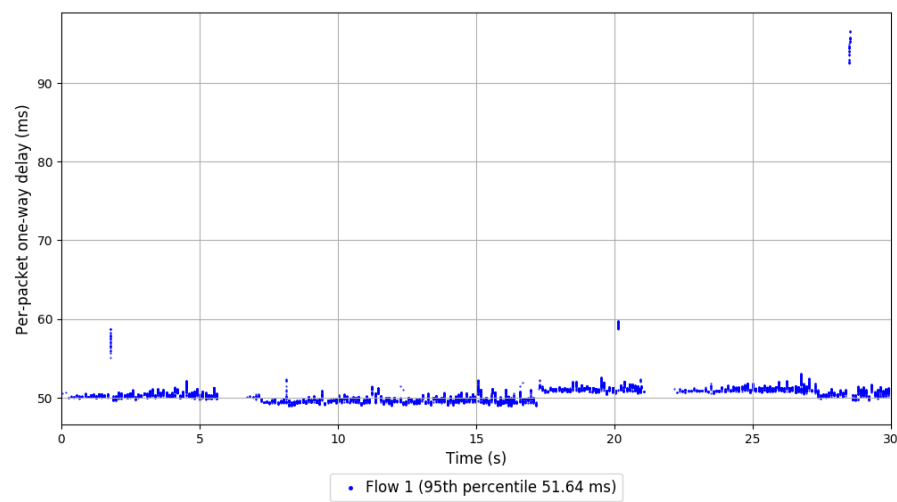
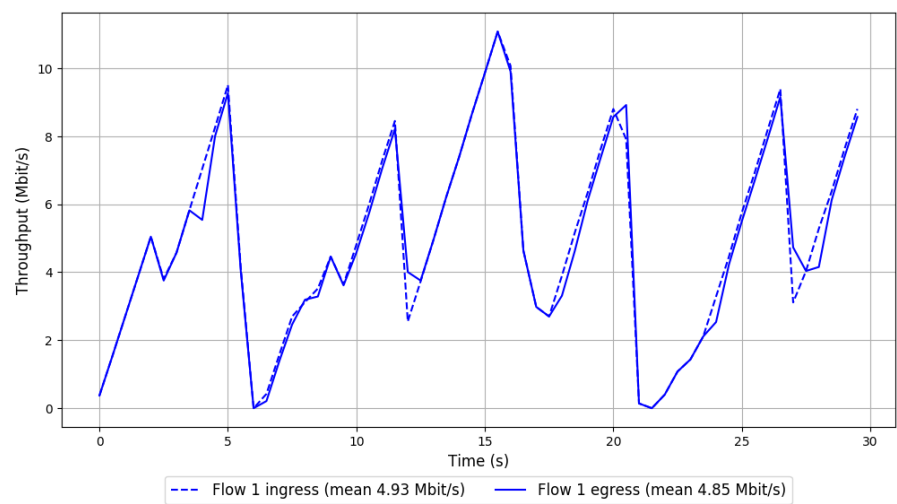
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 51.644 ms

Loss rate: 1.91%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-30 18:49:51

End at: 2018-01-30 18:50:21

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 51.703 ms

Loss rate: 1.45%

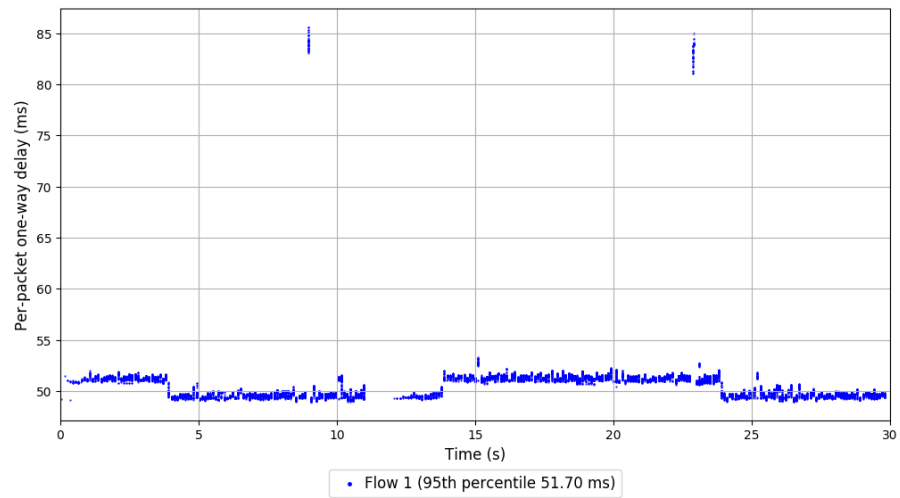
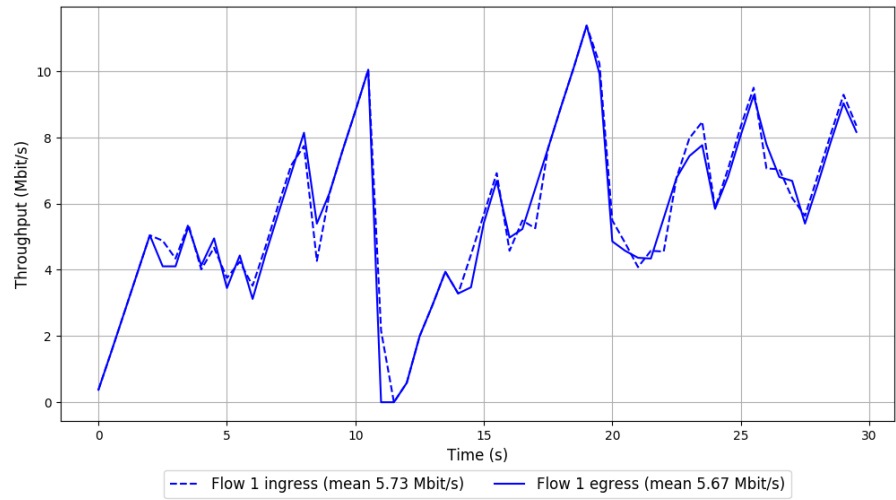
-- Flow 1:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 51.703 ms

Loss rate: 1.45%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-30 19:03:42

End at: 2018-01-30 19:04:12

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 52.332 ms

Loss rate: 0.87%

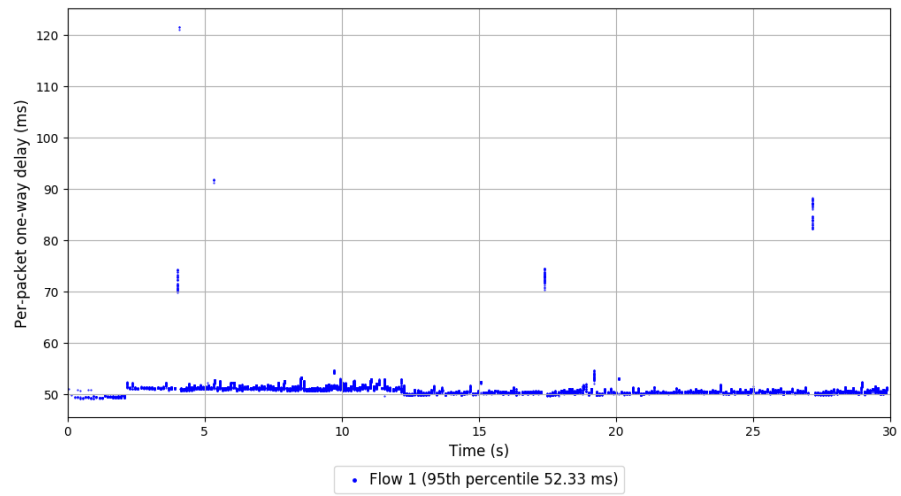
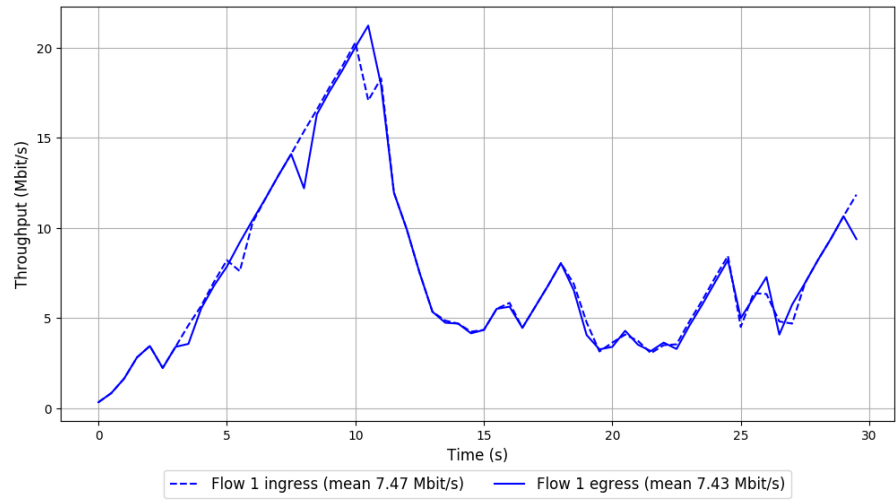
-- Flow 1:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 52.332 ms

Loss rate: 0.87%

Run 6: Report of LEDBAT — Data Link

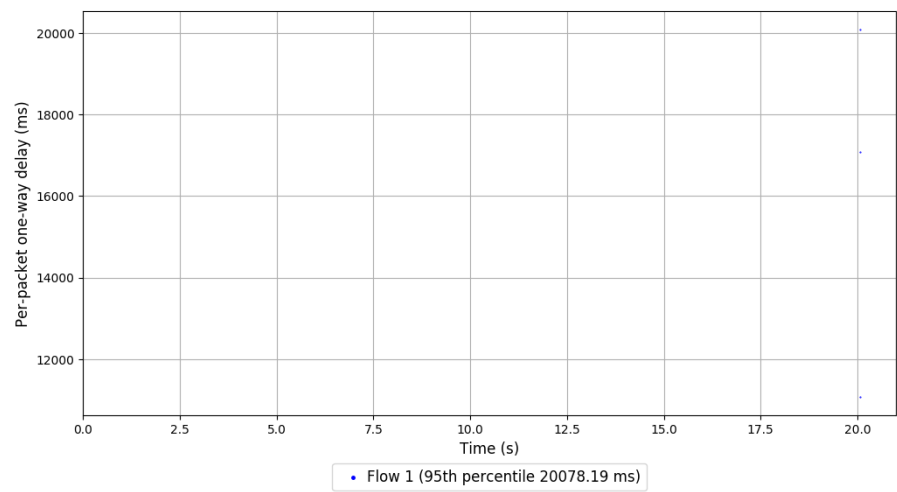
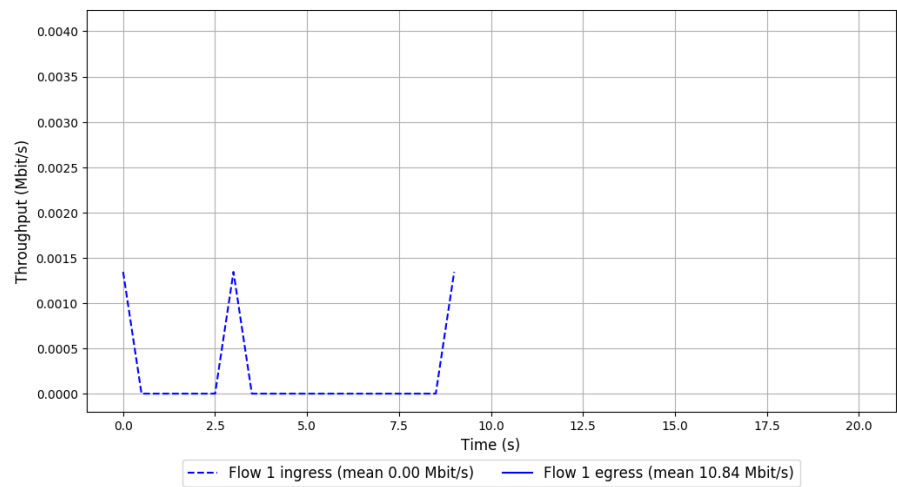


Run 7: Statistics of LEDBAT

Start at: 2018-01-30 19:17:55

End at: 2018-01-30 19:18:25

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-30 19:31:51

End at: 2018-01-30 19:32:21

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 52.054 ms

Loss rate: 2.50%

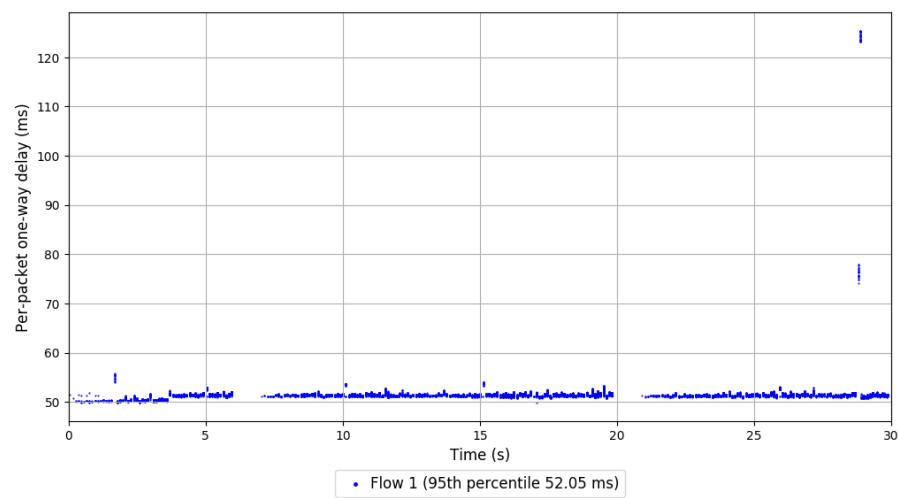
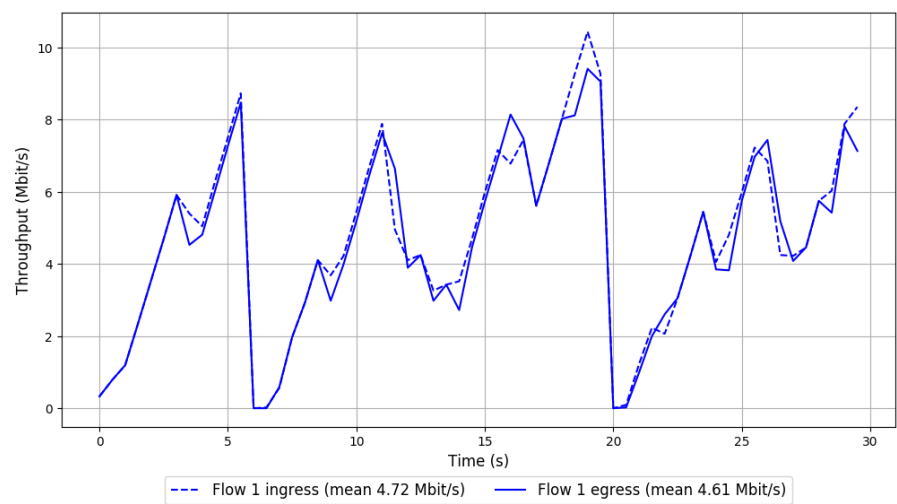
-- Flow 1:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 52.054 ms

Loss rate: 2.50%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-30 19:45:53

End at: 2018-01-30 19:46:23

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 52.027 ms

Loss rate: 0.91%

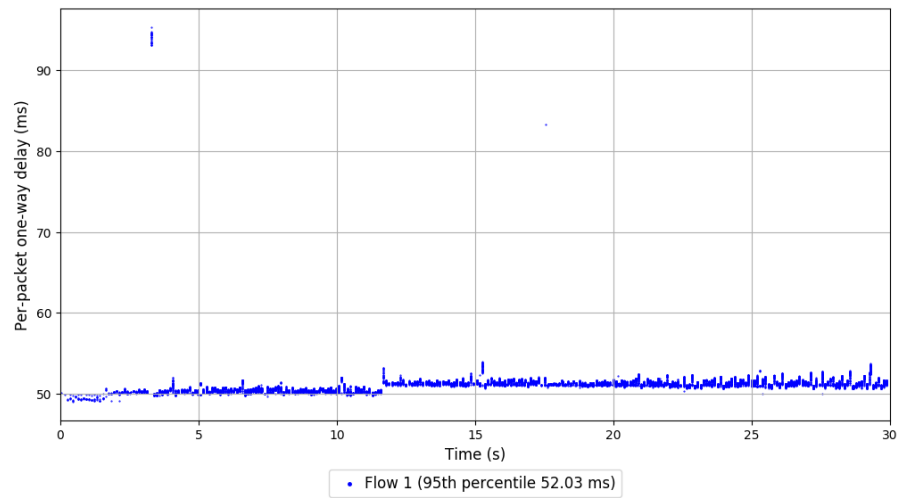
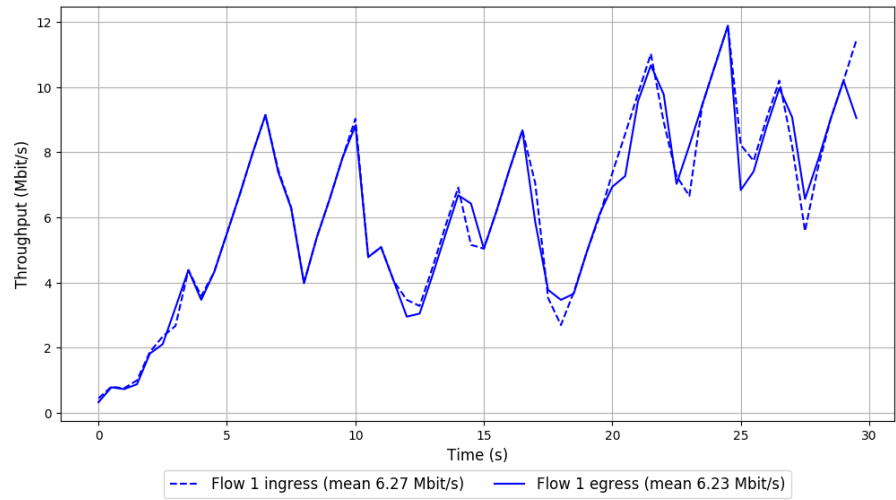
-- Flow 1:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 52.027 ms

Loss rate: 0.91%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-30 19:59:37

End at: 2018-01-30 20:00:07

Below is generated by plot.py at 2018-01-30 22:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 51.350 ms

Loss rate: 0.90%

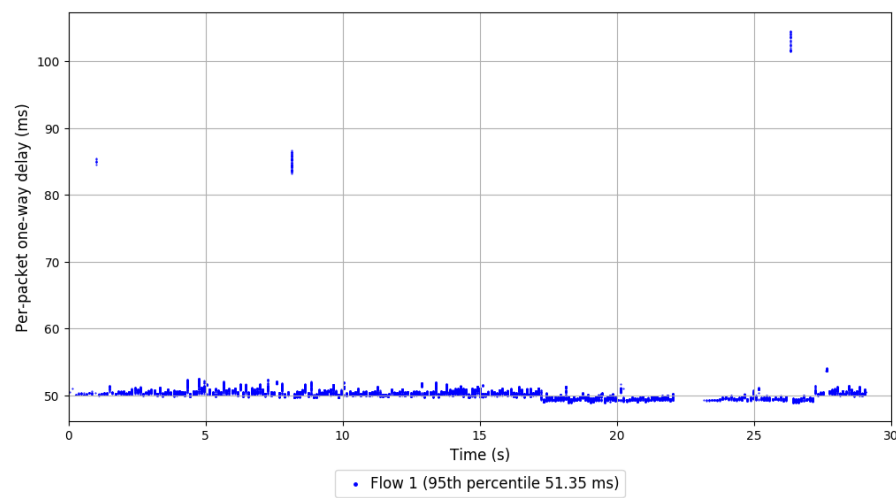
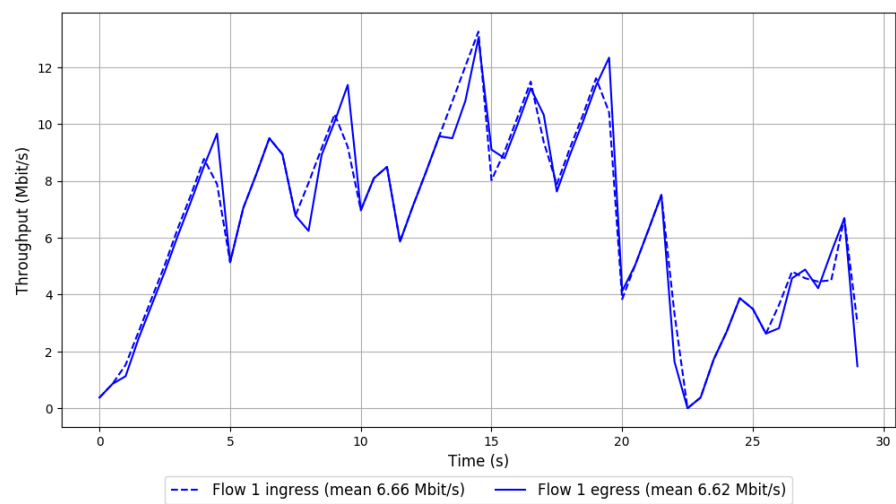
-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 51.350 ms

Loss rate: 0.90%

Run 10: Report of LEDBAT — Data Link

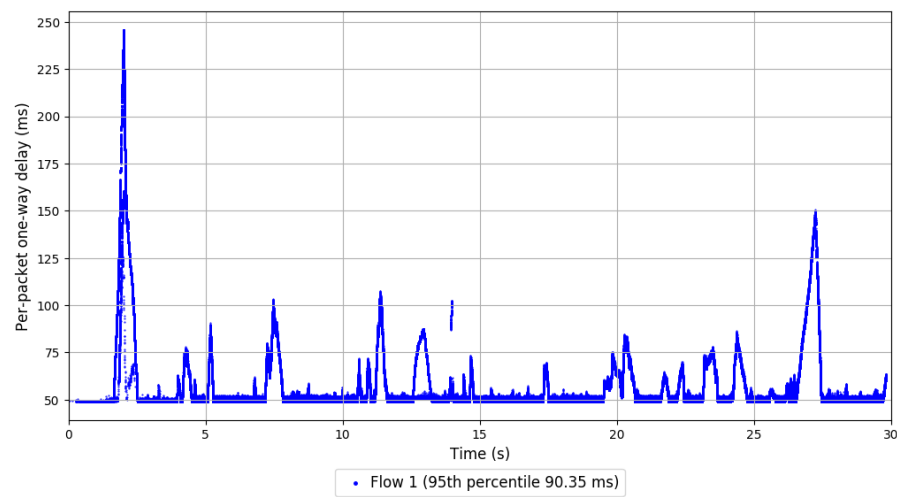
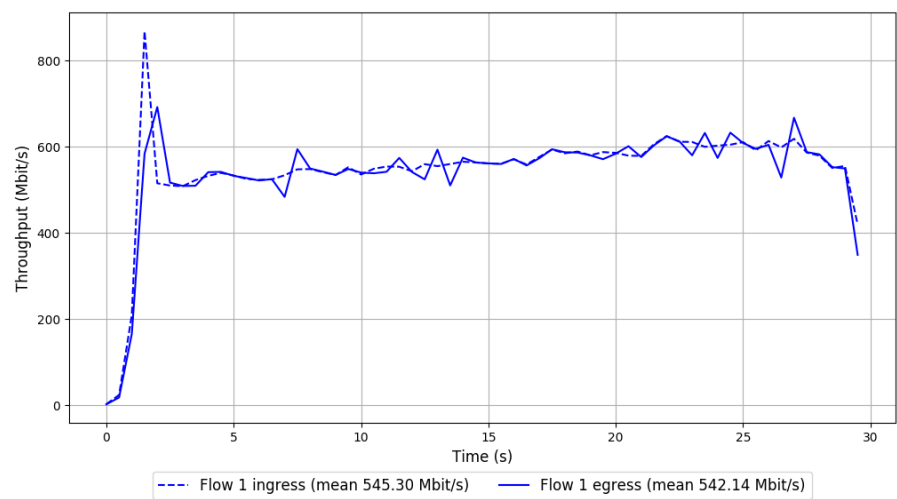


```
Run 1: Statistics of PCC

Start at: 2018-01-30 17:47:10
End at: 2018-01-30 17:47:41

# Below is generated by plot.py at 2018-01-30 22:44:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.14 Mbit/s
95th percentile per-packet one-way delay: 90.352 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 542.14 Mbit/s
95th percentile per-packet one-way delay: 90.352 ms
Loss rate: 0.91%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-30 18:01:04

End at: 2018-01-30 18:01:34

Below is generated by plot.py at 2018-01-30 22:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.66 Mbit/s

95th percentile per-packet one-way delay: 135.138 ms

Loss rate: 1.55%

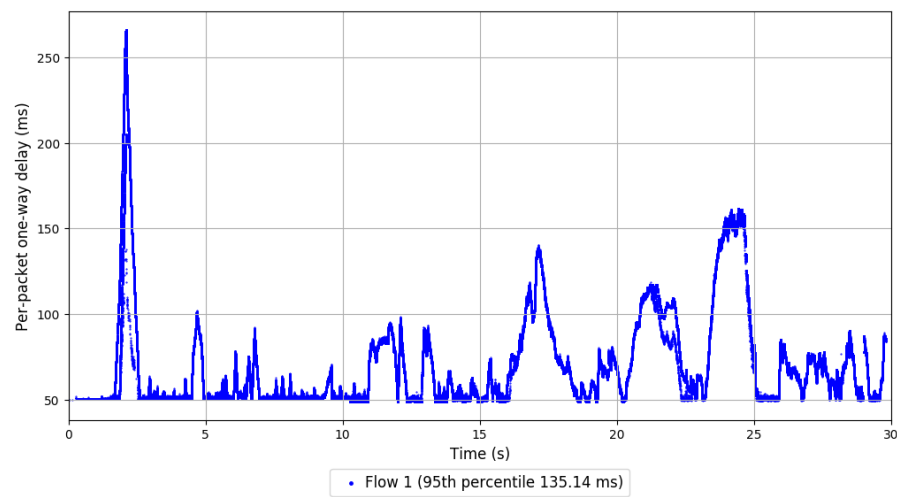
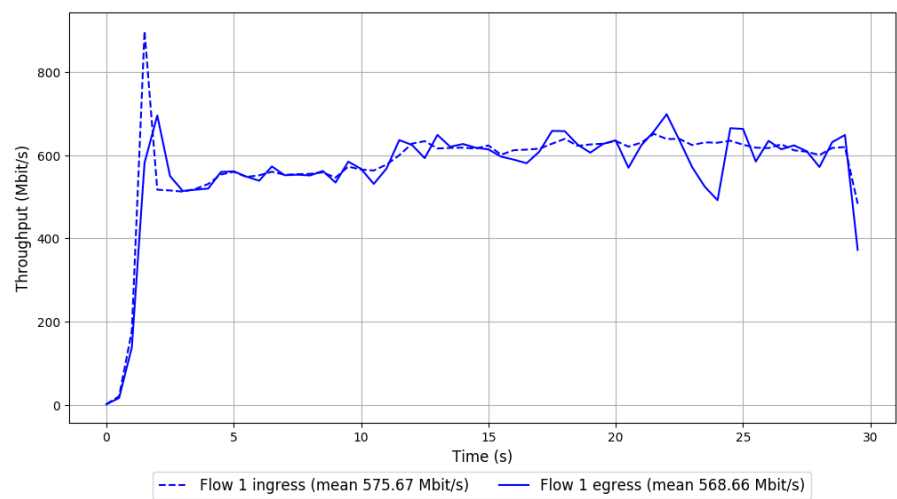
-- Flow 1:

Average throughput: 568.66 Mbit/s

95th percentile per-packet one-way delay: 135.138 ms

Loss rate: 1.55%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-30 18:14:58

End at: 2018-01-30 18:15:28

Below is generated by plot.py at 2018-01-30 22:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.21 Mbit/s

95th percentile per-packet one-way delay: 88.495 ms

Loss rate: 0.71%

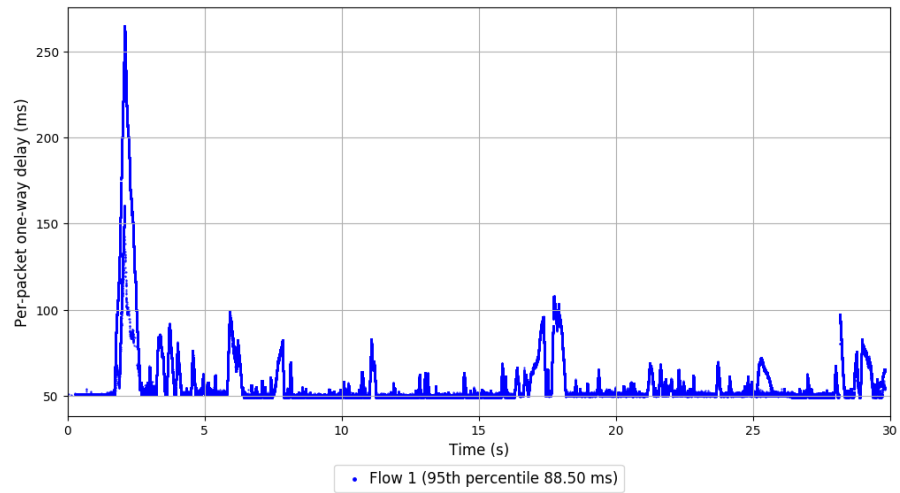
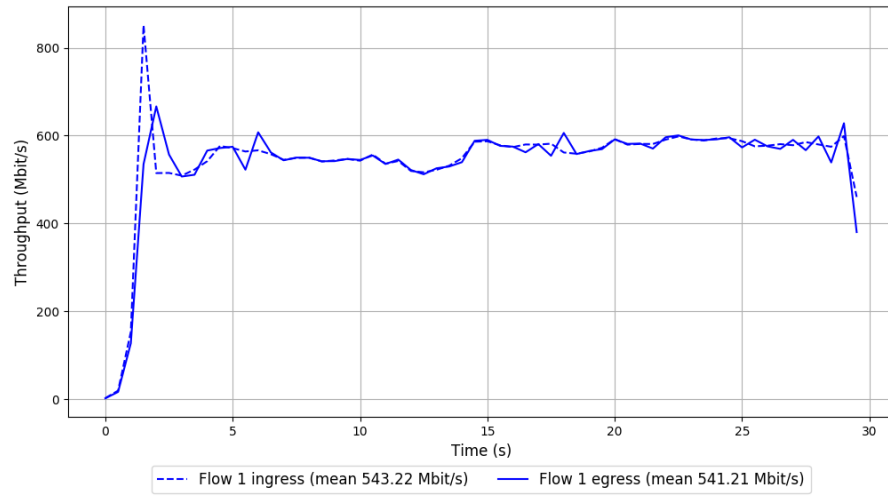
-- Flow 1:

Average throughput: 541.21 Mbit/s

95th percentile per-packet one-way delay: 88.495 ms

Loss rate: 0.71%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-30 18:28:51

End at: 2018-01-30 18:29:21

Below is generated by plot.py at 2018-01-30 22:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.16 Mbit/s

95th percentile per-packet one-way delay: 68.426 ms

Loss rate: 0.63%

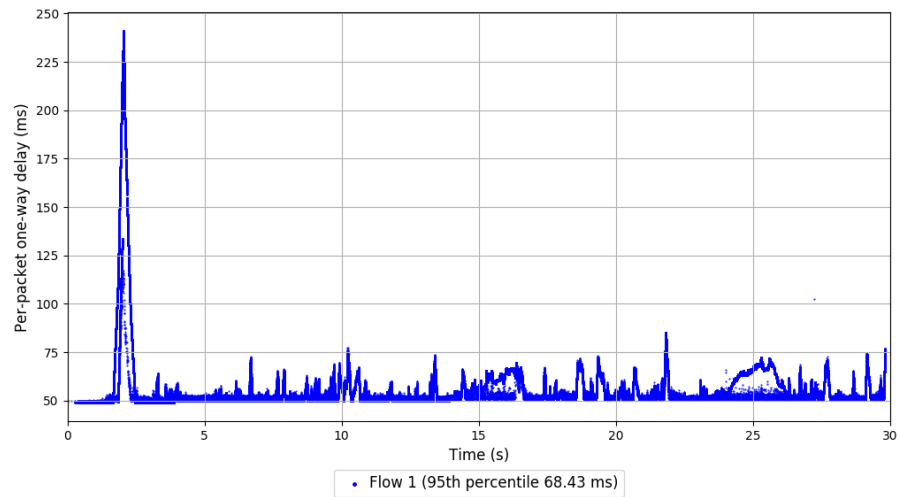
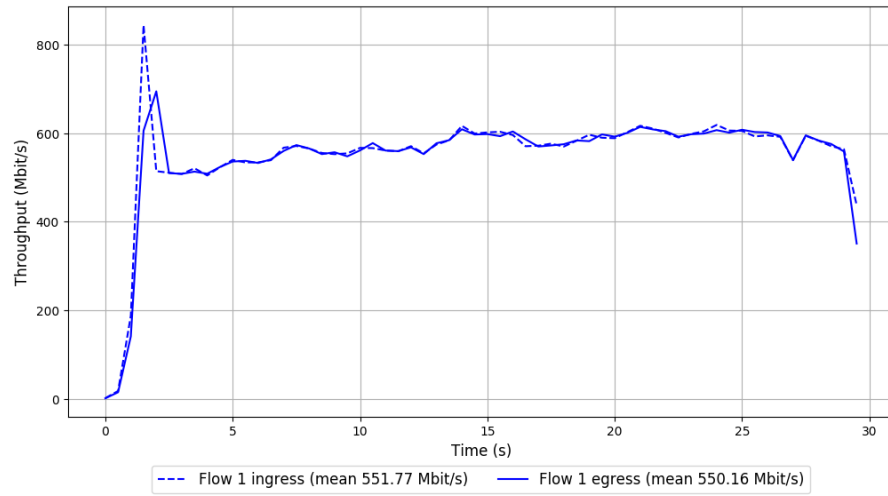
-- Flow 1:

Average throughput: 550.16 Mbit/s

95th percentile per-packet one-way delay: 68.426 ms

Loss rate: 0.63%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-30 18:42:48

End at: 2018-01-30 18:43:18

Below is generated by plot.py at 2018-01-30 22:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.65 Mbit/s

95th percentile per-packet one-way delay: 109.873 ms

Loss rate: 1.17%

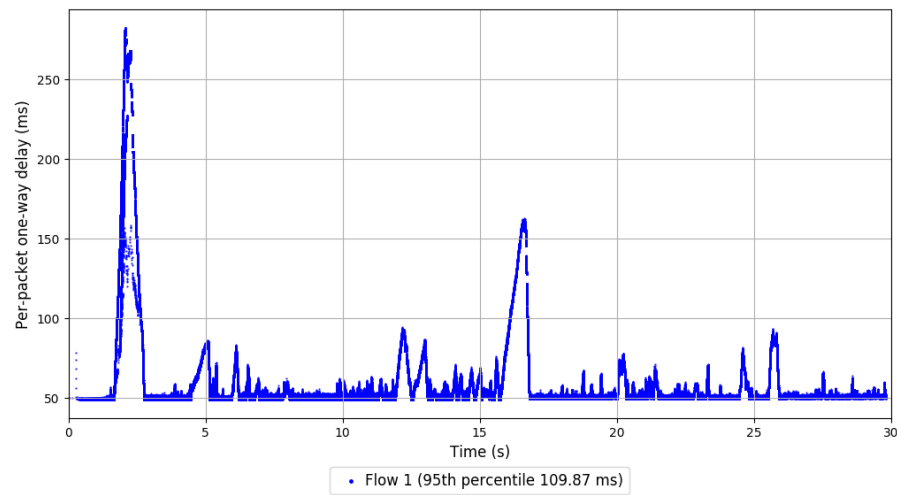
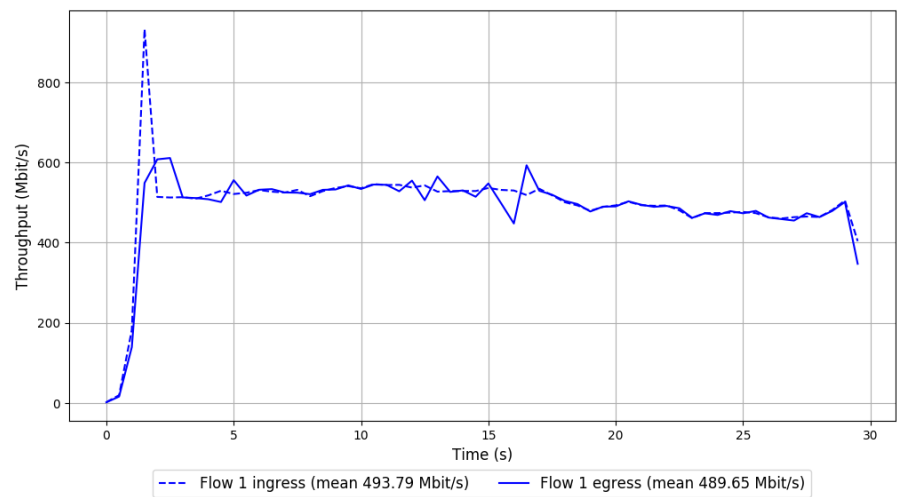
-- Flow 1:

Average throughput: 489.65 Mbit/s

95th percentile per-packet one-way delay: 109.873 ms

Loss rate: 1.17%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-30 18:56:40

End at: 2018-01-30 18:57:10

Below is generated by plot.py at 2018-01-30 22:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.28 Mbit/s

95th percentile per-packet one-way delay: 153.366 ms

Loss rate: 0.98%

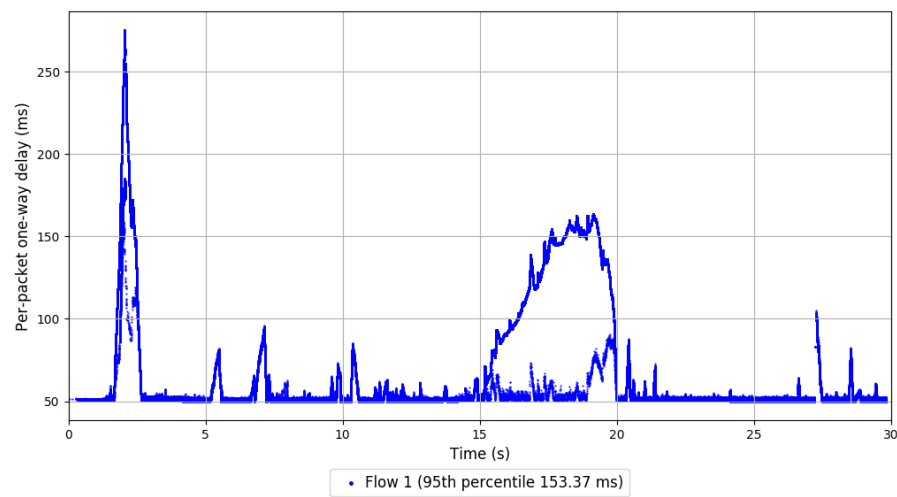
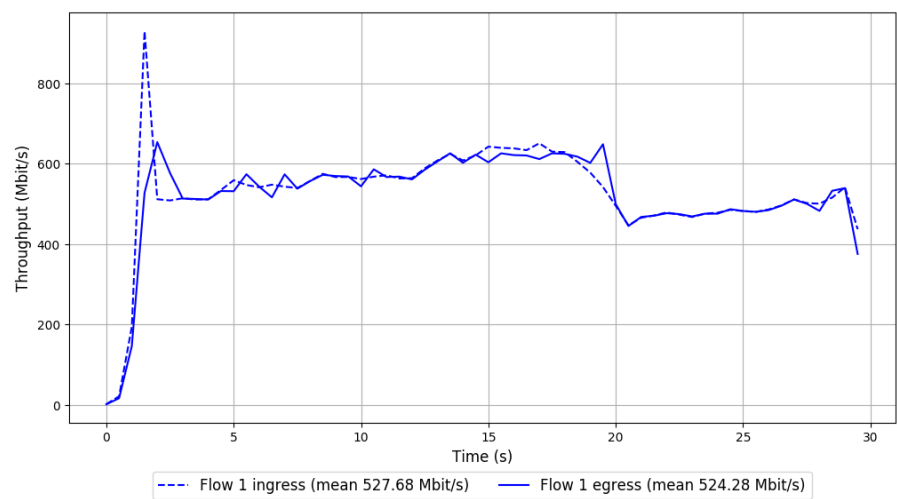
-- Flow 1:

Average throughput: 524.28 Mbit/s

95th percentile per-packet one-way delay: 153.366 ms

Loss rate: 0.98%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-30 19:10:59

End at: 2018-01-30 19:11:29

Below is generated by plot.py at 2018-01-30 22:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.98 Mbit/s

95th percentile per-packet one-way delay: 201.466 ms

Loss rate: 2.82%

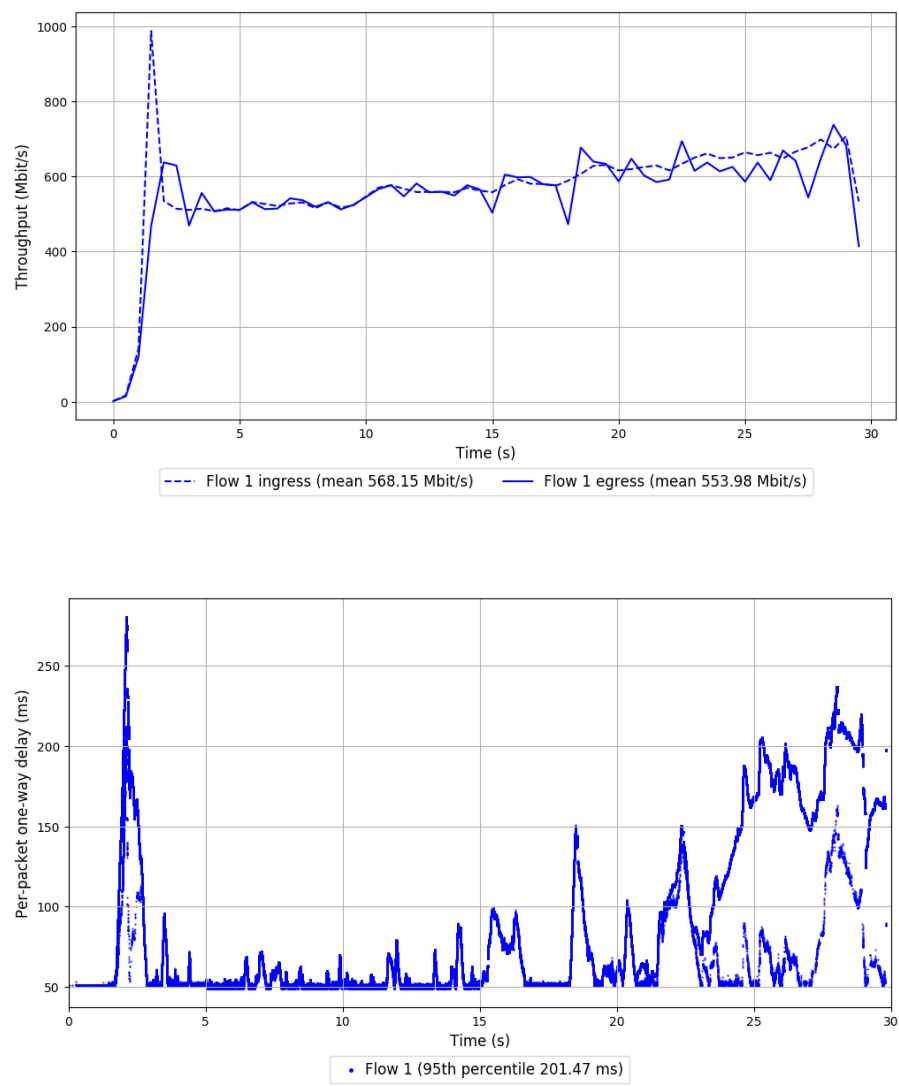
-- Flow 1:

Average throughput: 553.98 Mbit/s

95th percentile per-packet one-way delay: 201.466 ms

Loss rate: 2.82%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-30 19:24:56

End at: 2018-01-30 19:25:26

Below is generated by plot.py at 2018-01-30 22:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 559.56 Mbit/s

95th percentile per-packet one-way delay: 94.465 ms

Loss rate: 0.72%

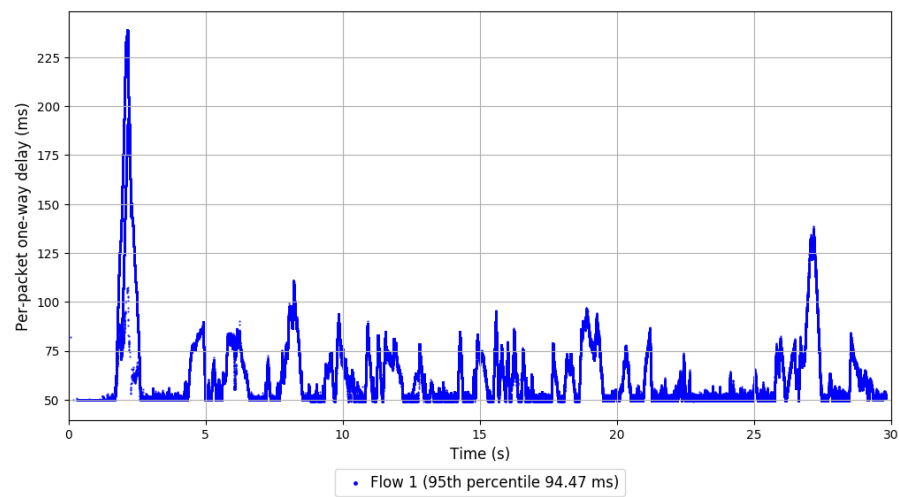
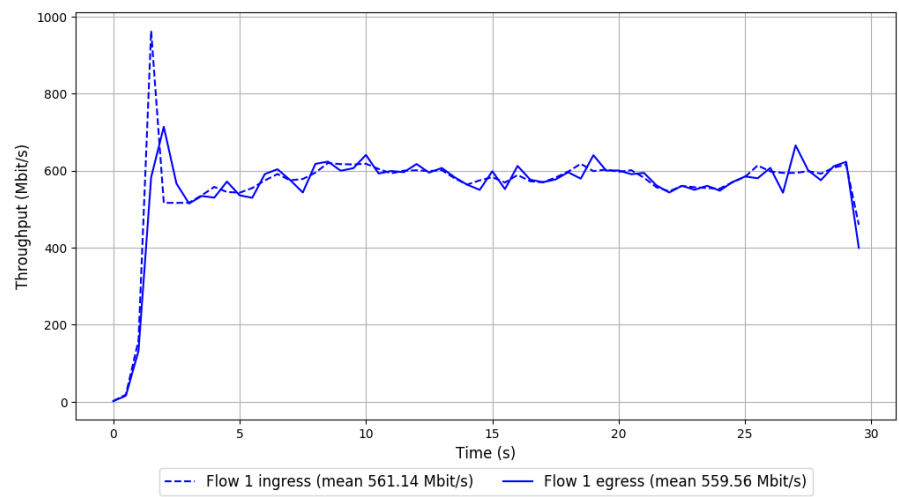
-- Flow 1:

Average throughput: 559.56 Mbit/s

95th percentile per-packet one-way delay: 94.465 ms

Loss rate: 0.72%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-30 19:38:48

End at: 2018-01-30 19:39:18

Below is generated by plot.py at 2018-01-30 22:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.07 Mbit/s

95th percentile per-packet one-way delay: 122.229 ms

Loss rate: 0.70%

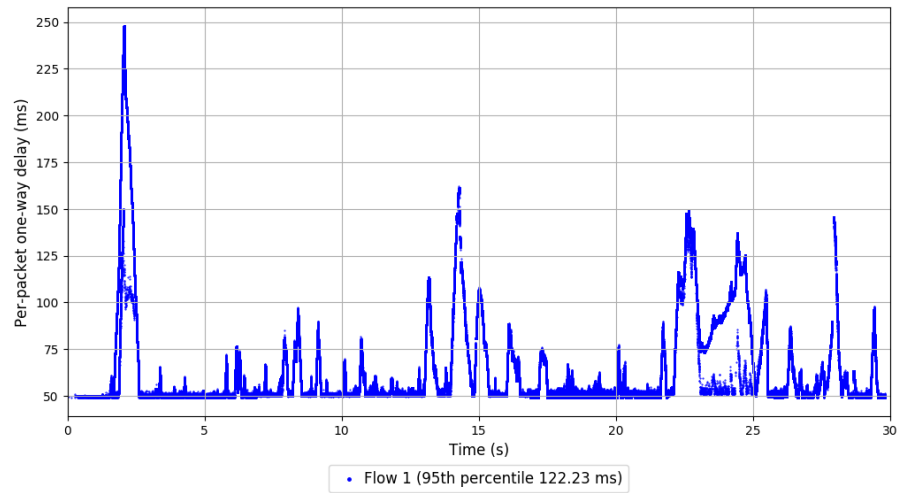
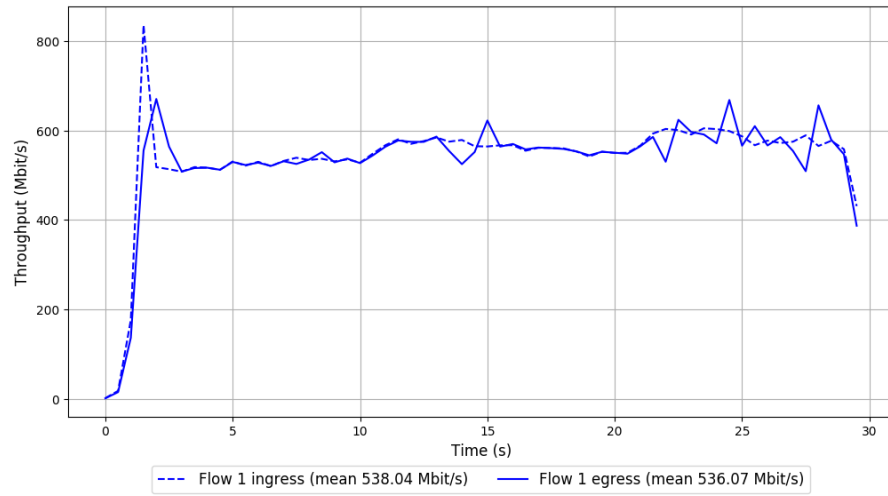
-- Flow 1:

Average throughput: 536.07 Mbit/s

95th percentile per-packet one-way delay: 122.229 ms

Loss rate: 0.70%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-30 19:52:55

End at: 2018-01-30 19:53:25

Below is generated by plot.py at 2018-01-30 22:55:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.25 Mbit/s

95th percentile per-packet one-way delay: 107.348 ms

Loss rate: 0.91%

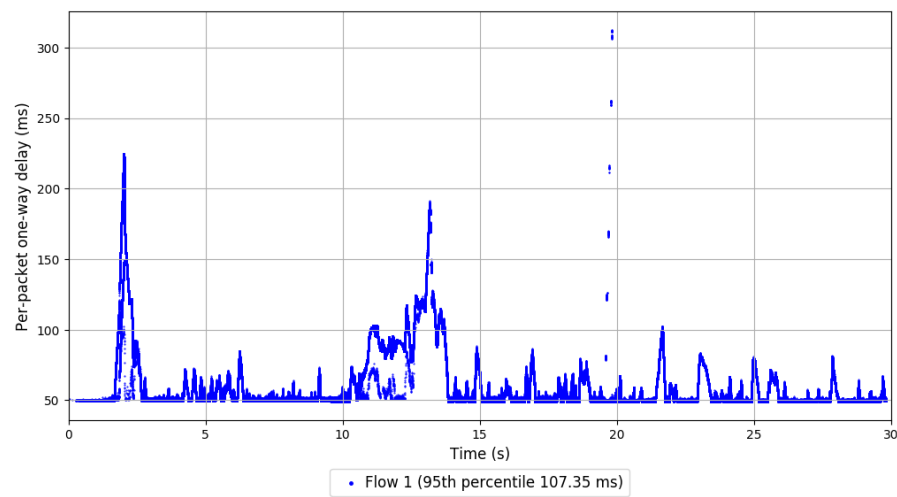
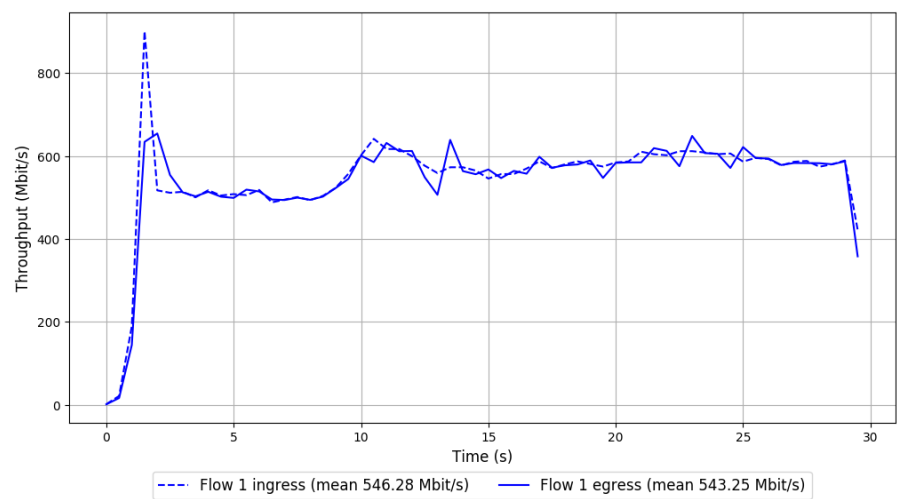
-- Flow 1:

Average throughput: 543.25 Mbit/s

95th percentile per-packet one-way delay: 107.348 ms

Loss rate: 0.91%

Run 10: Report of PCC — Data Link

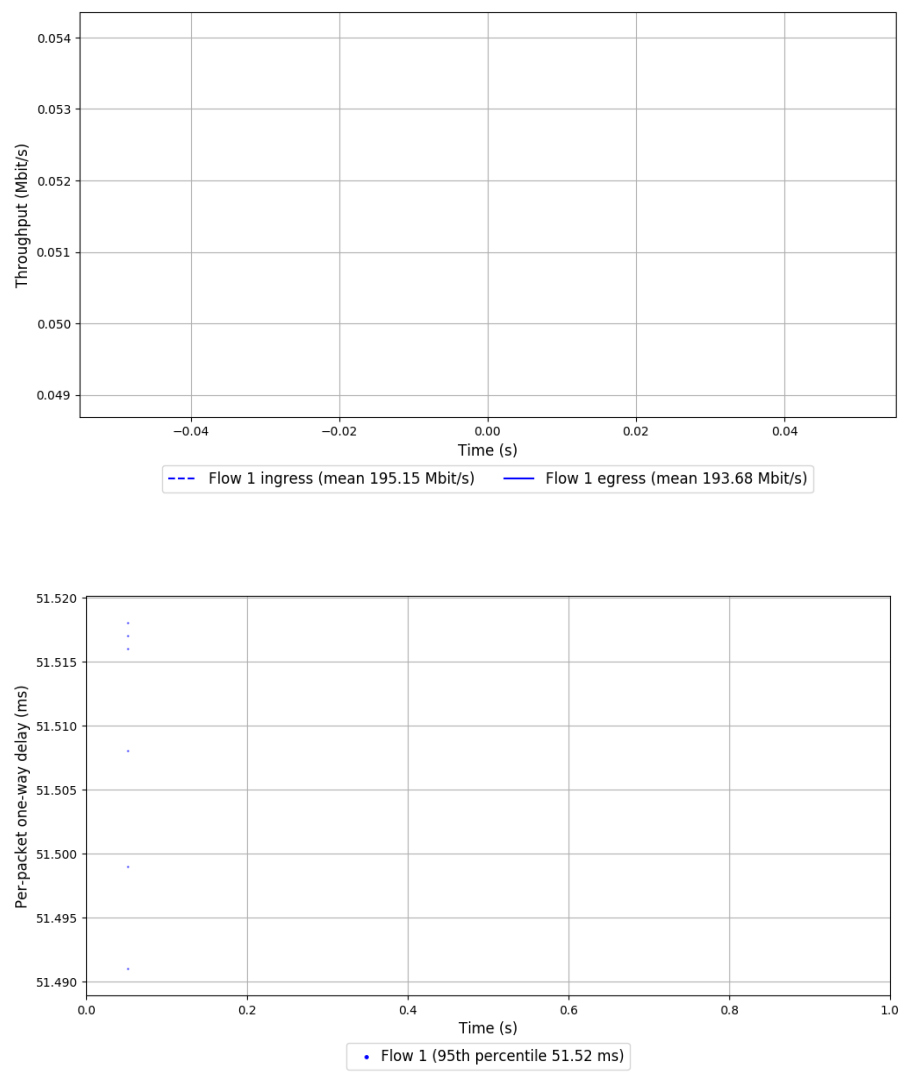


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-30 17:52:52

End at: 2018-01-30 17:53:22

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-30 18:06:41

End at: 2018-01-30 18:07:11

Below is generated by plot.py at 2018-01-30 22:55:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.13 Mbit/s

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

Loss rate: 0.21%

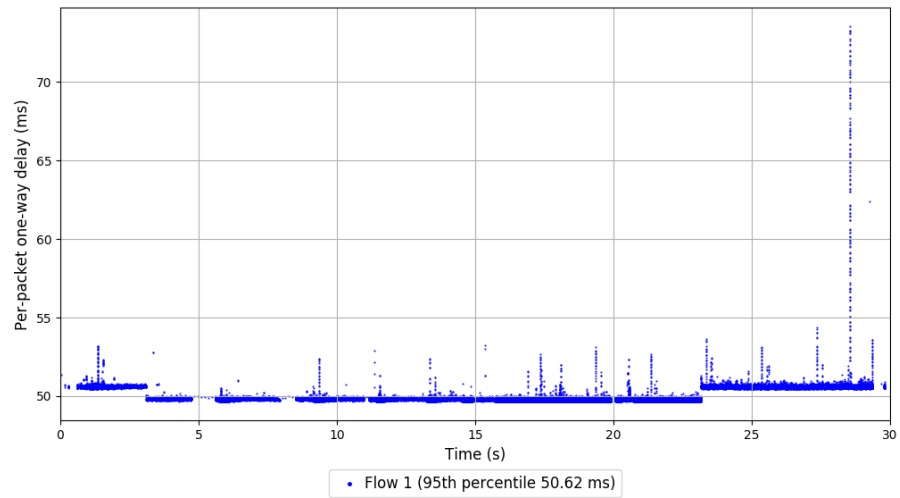
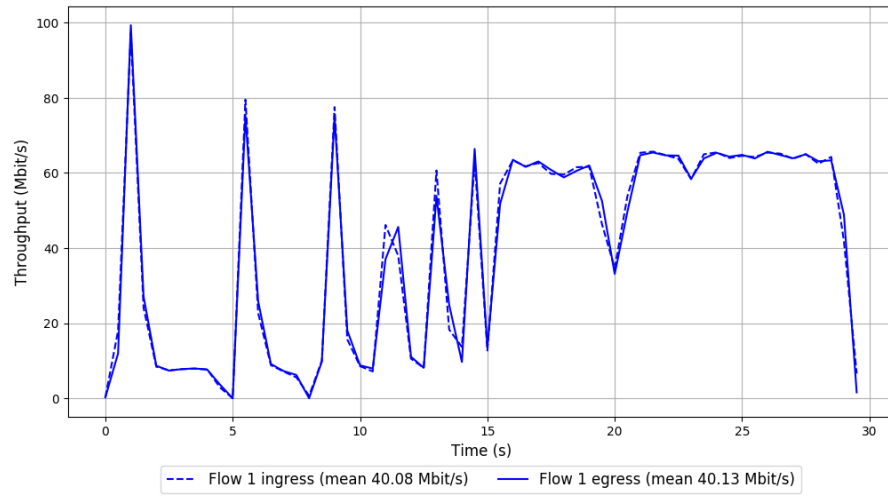
-- Flow 1:

Average throughput: 40.13 Mbit/s

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

Loss rate: 0.21%

Run 2: Report of QUIC Cubic — Data Link

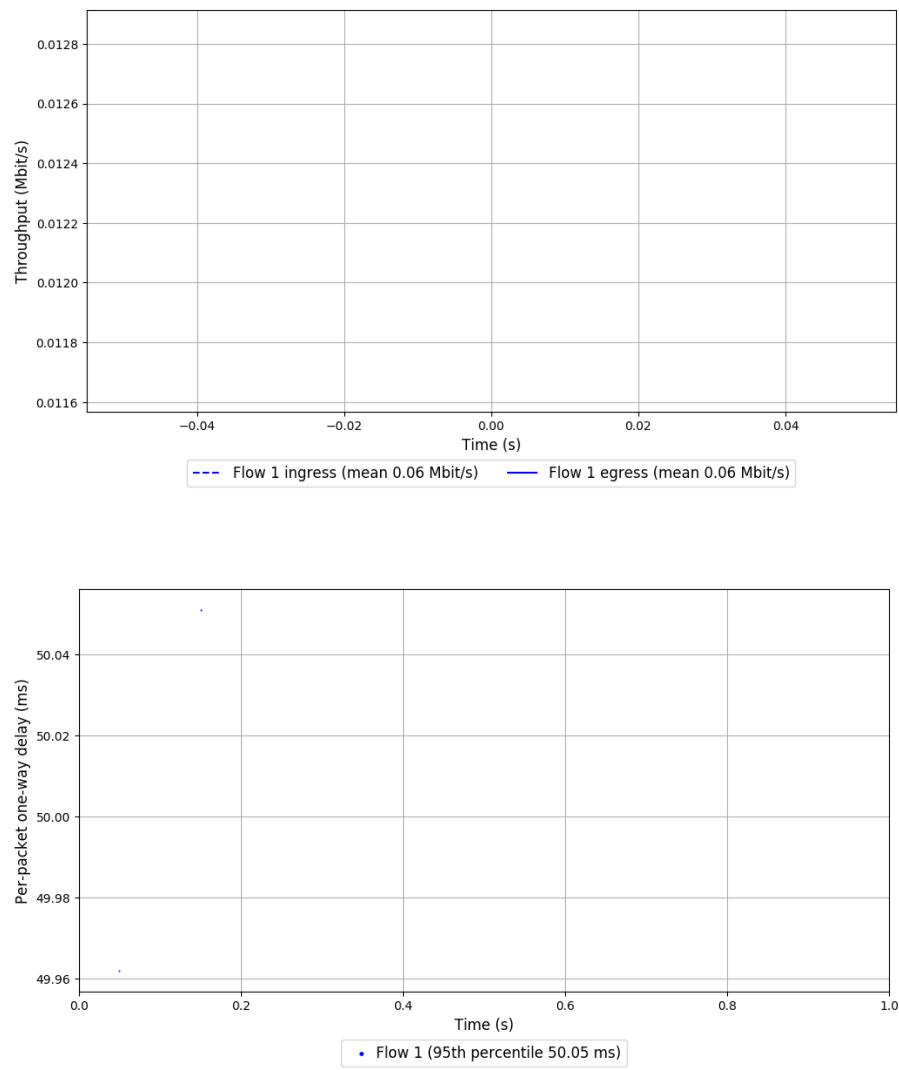


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-30 18:20:40

End at: 2018-01-30 18:21:10

Run 3: Report of QUIC Cubic — Data Link

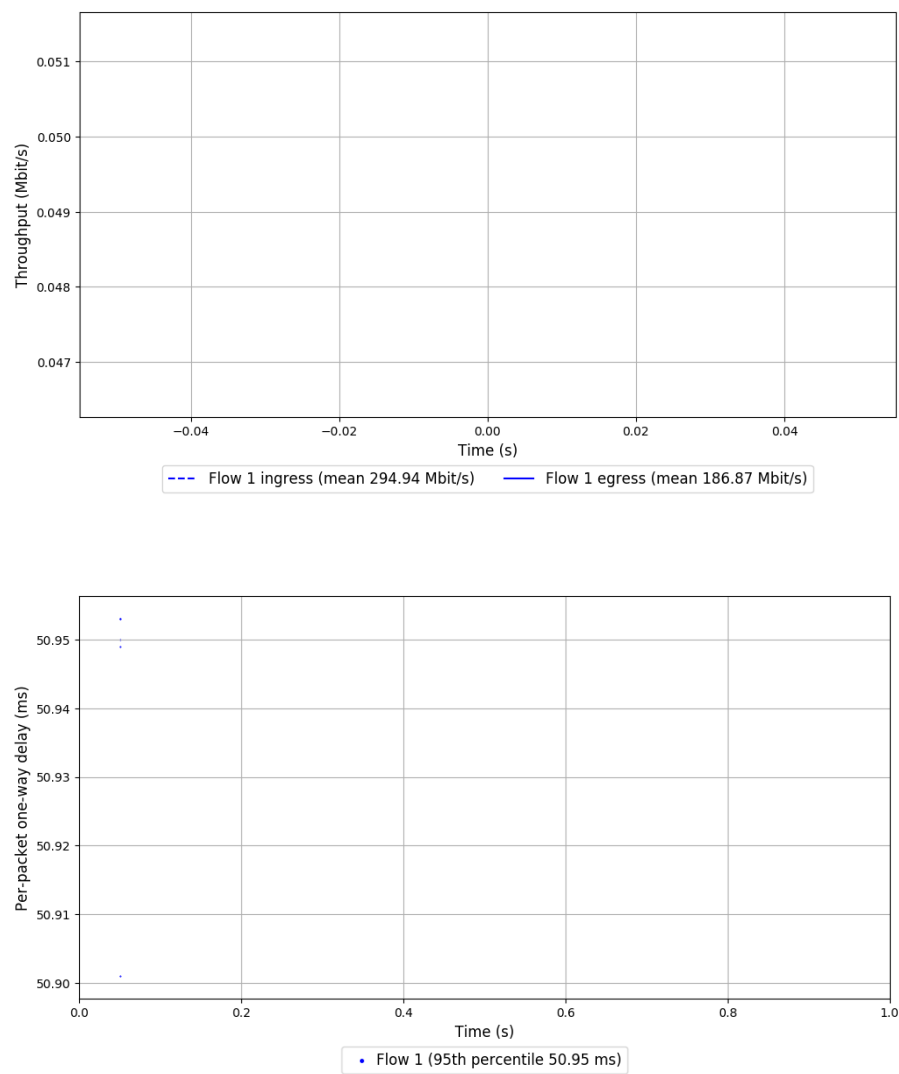


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-30 18:34:33

End at: 2018-01-30 18:35:03

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-30 18:48:34

End at: 2018-01-30 18:49:04

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 49.944 ms

Loss rate: 0.91%

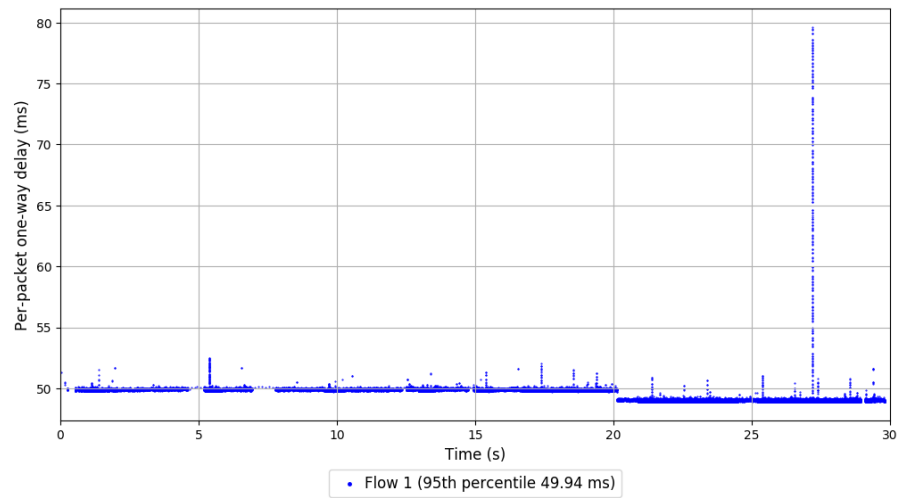
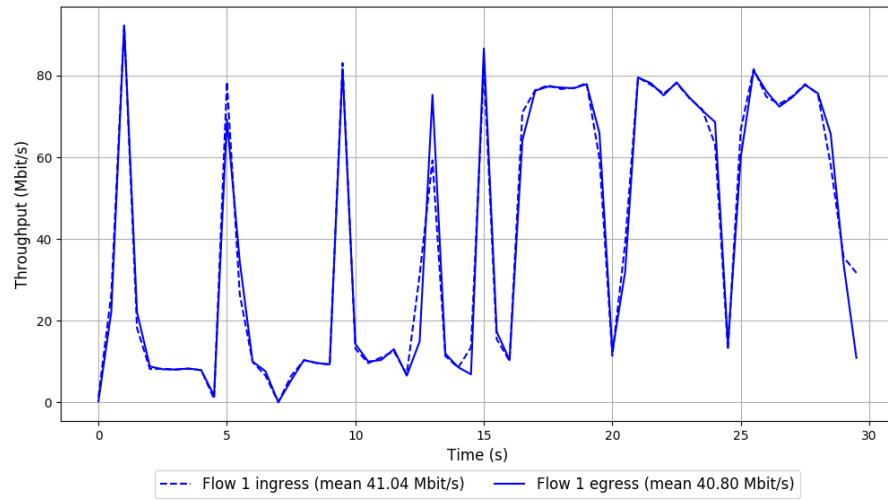
-- Flow 1:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 49.944 ms

Loss rate: 0.91%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-30 19:02:25

End at: 2018-01-30 19:02:55

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 51.048 ms

Loss rate: 0.51%

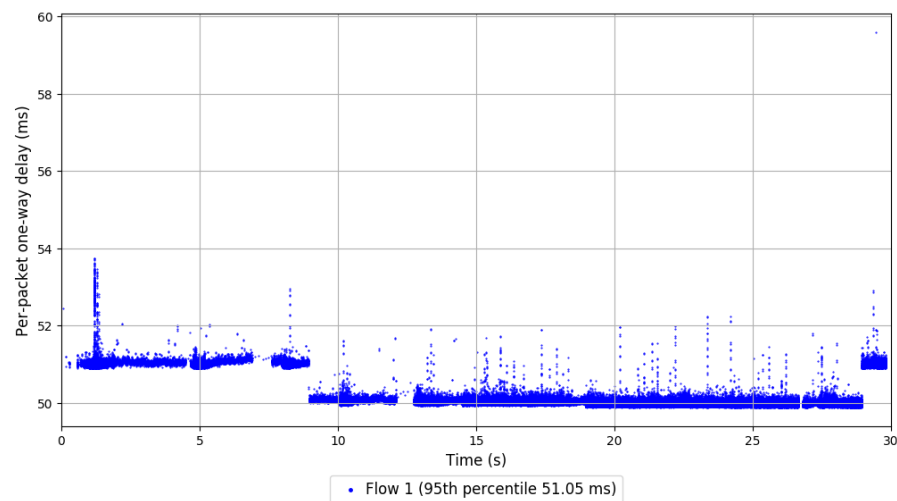
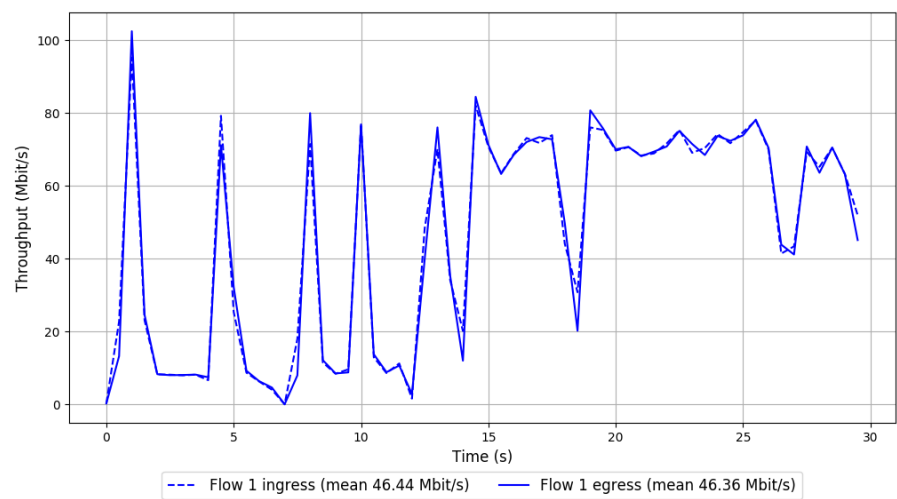
-- Flow 1:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 51.048 ms

Loss rate: 0.51%

Run 6: Report of QUIC Cubic — Data Link

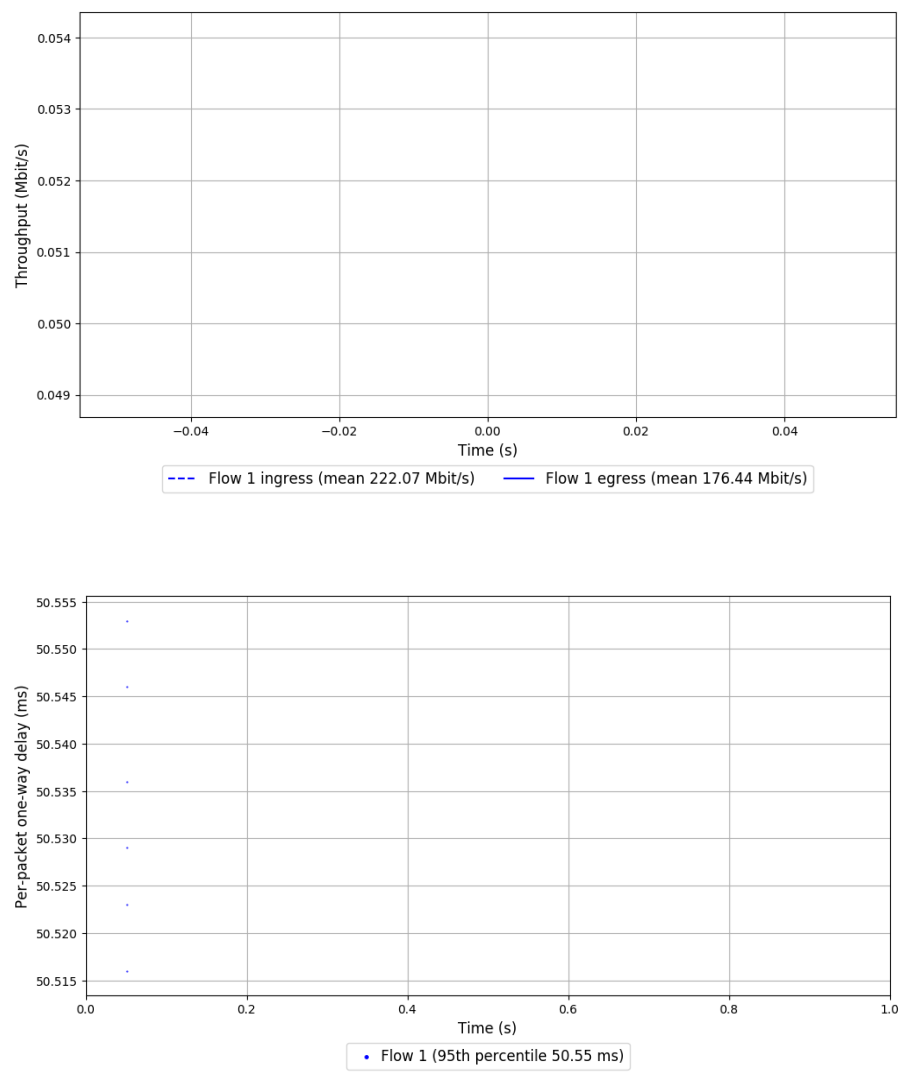


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-30 19:16:41

End at: 2018-01-30 19:17:11

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-30 19:30:34

End at: 2018-01-30 19:31:04

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 50.669 ms

Loss rate: 0.50%

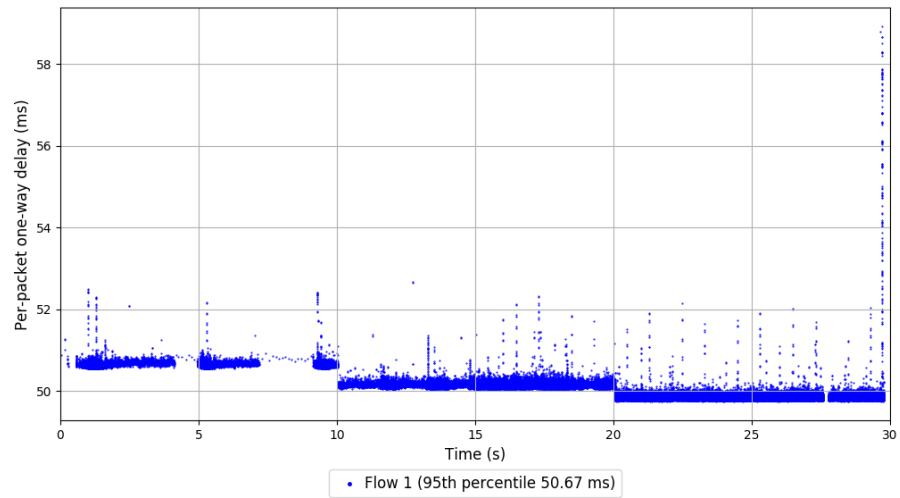
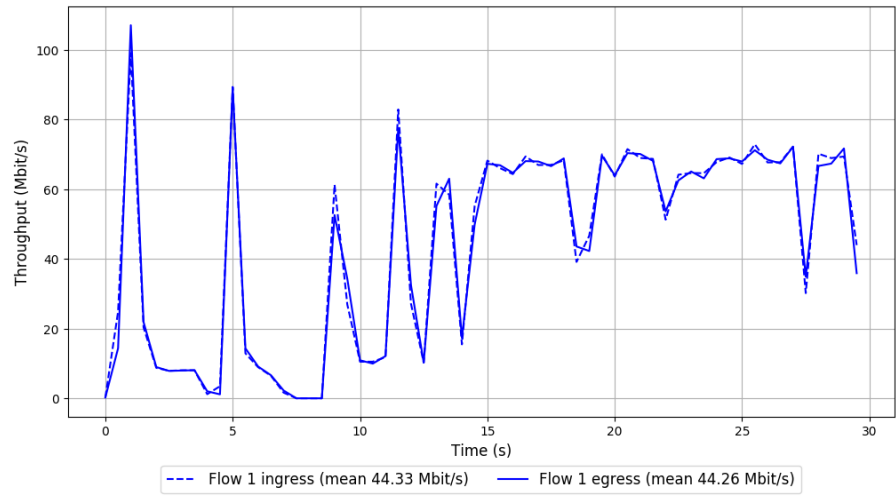
-- Flow 1:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 50.669 ms

Loss rate: 0.50%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-30 19:44:36

End at: 2018-01-30 19:45:06

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.97 Mbit/s

95th percentile per-packet one-way delay: 50.564 ms

Loss rate: 0.85%

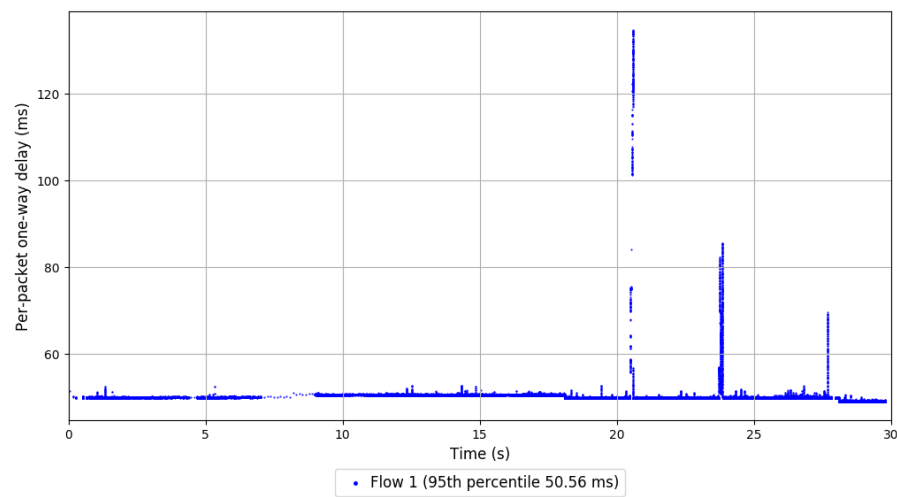
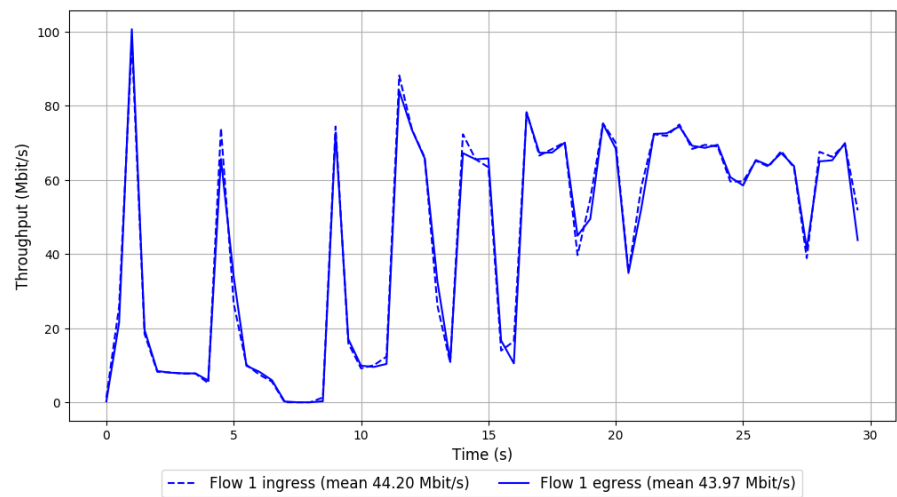
-- Flow 1:

Average throughput: 43.97 Mbit/s

95th percentile per-packet one-way delay: 50.564 ms

Loss rate: 0.85%

Run 9: Report of QUIC Cubic — Data Link

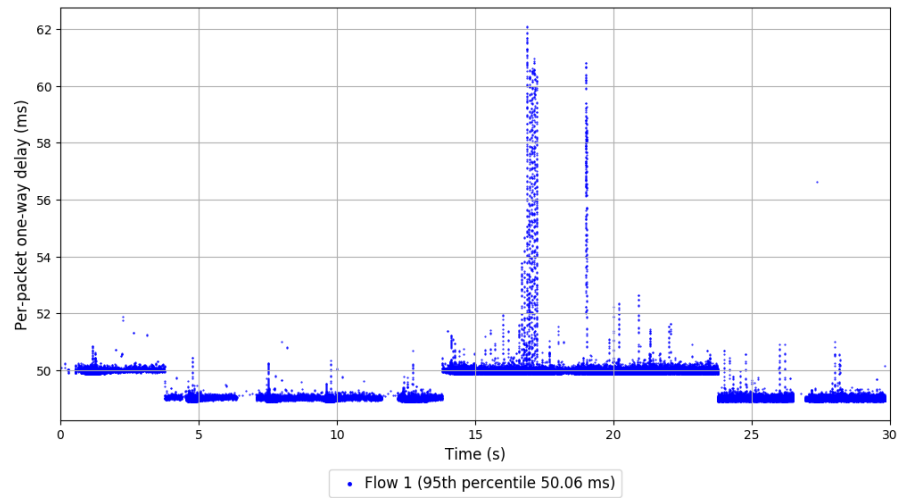
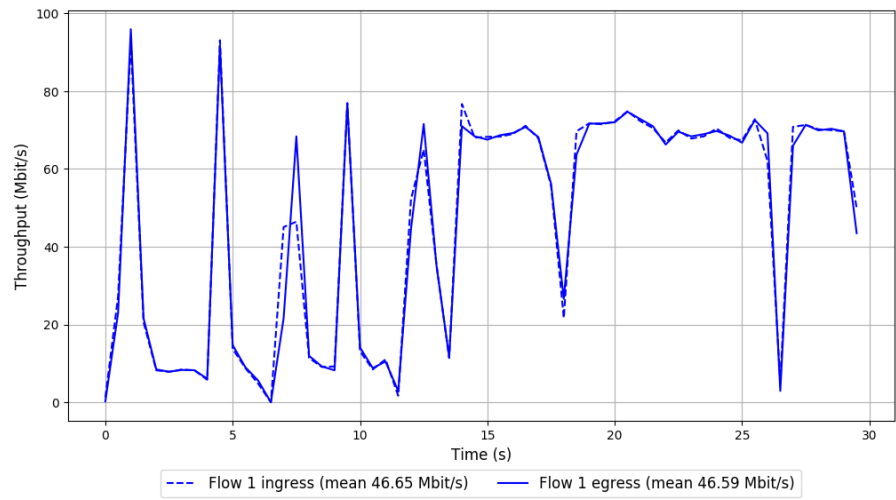


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-30 19:58:21
End at: 2018-01-30 19:58:51

# Below is generated by plot.py at 2018-01-30 22:55:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.59 Mbit/s
95th percentile per-packet one-way delay: 50.062 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 46.59 Mbit/s
95th percentile per-packet one-way delay: 50.062 ms
Loss rate: 0.48%
```

Run 10: Report of QUIC Cubic — Data Link

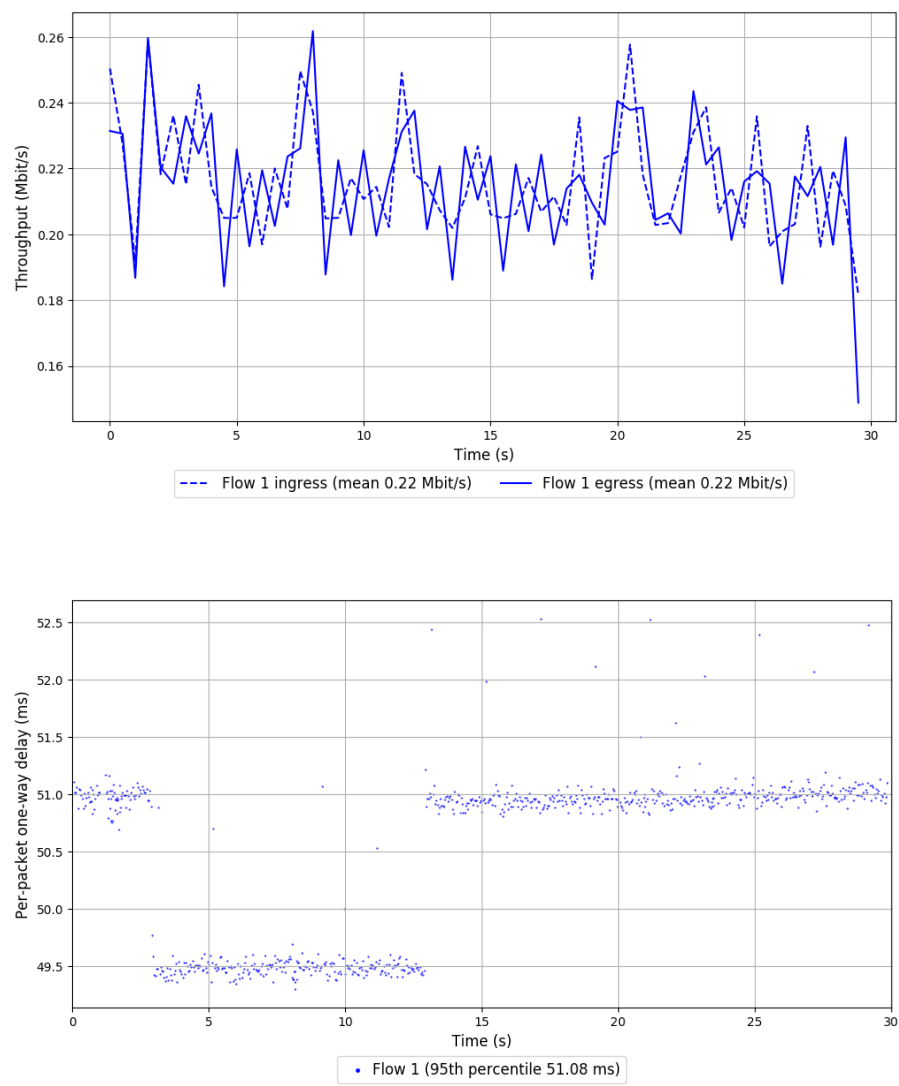


```
Run 1: Statistics of SCReAM

Start at: 2018-01-30 17:50:22
End at: 2018-01-30 17:50:52

# Below is generated by plot.py at 2018-01-30 22:55:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.080 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.080 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-01-30 18:04:15

End at: 2018-01-30 18:04:45

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.111 ms

Loss rate: 0.38%

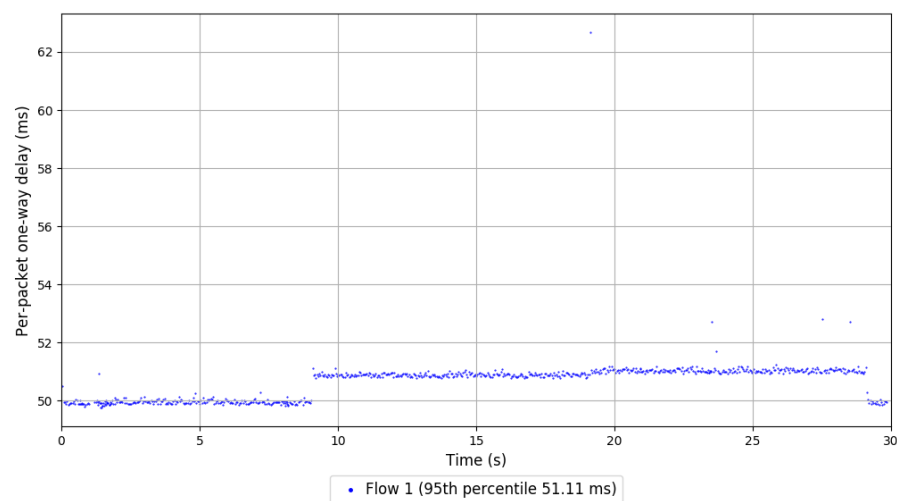
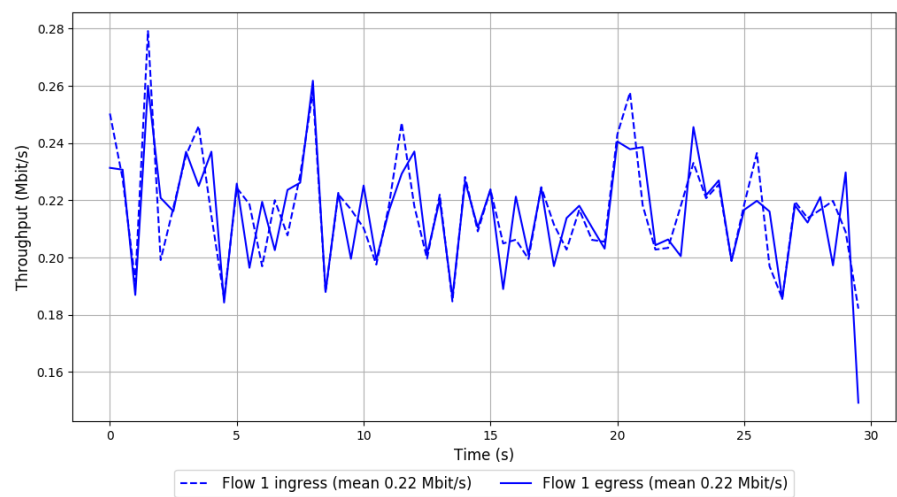
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.111 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-30 18:18:11

End at: 2018-01-30 18:18:41

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.38%

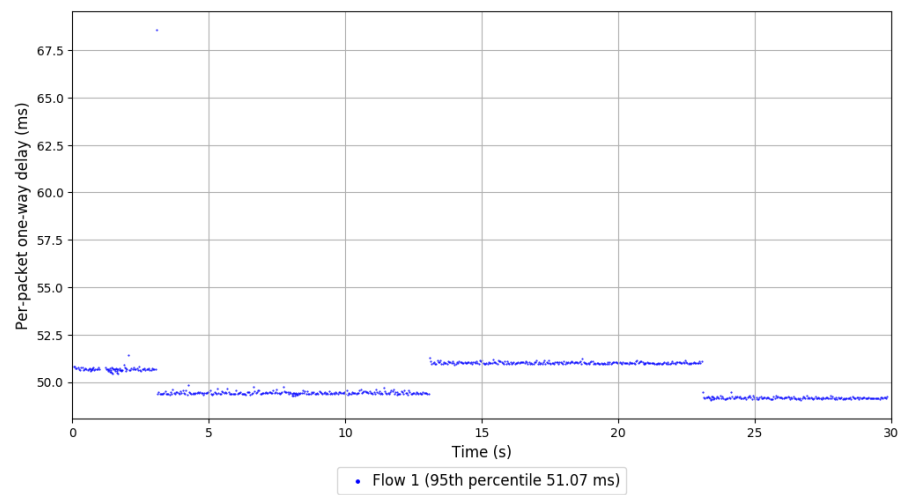
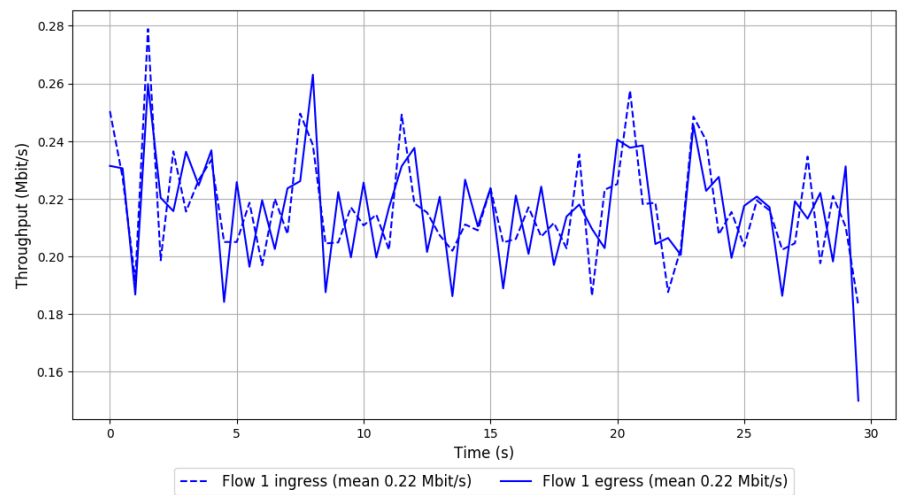
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-30 18:32:00

End at: 2018-01-30 18:32:30

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.729 ms

Loss rate: 0.51%

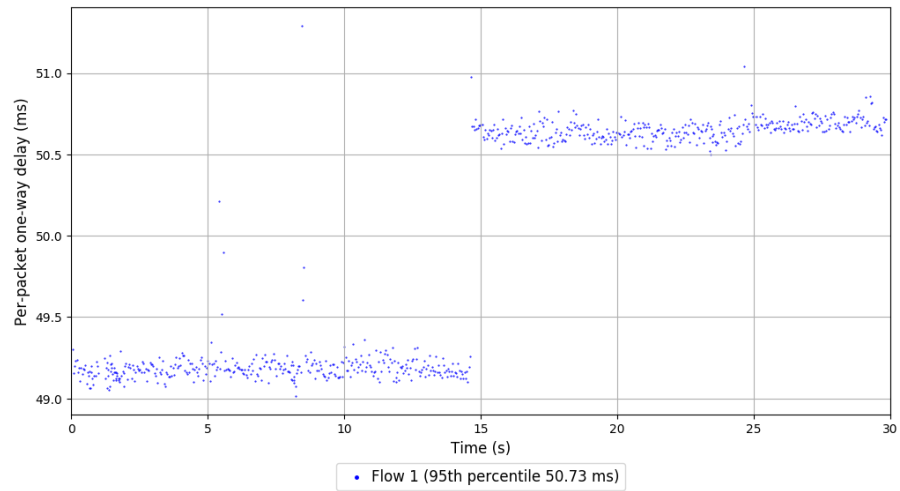
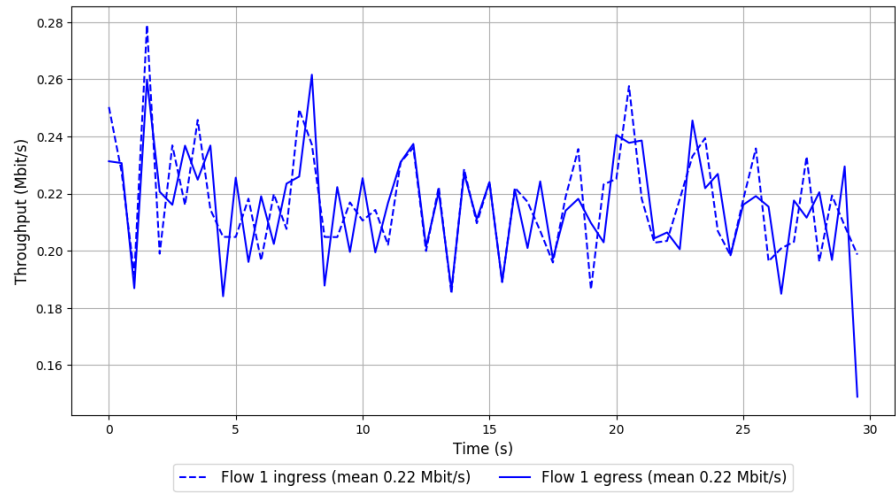
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.729 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-30 18:46:00

End at: 2018-01-30 18:46:30

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.118 ms

Loss rate: 0.38%

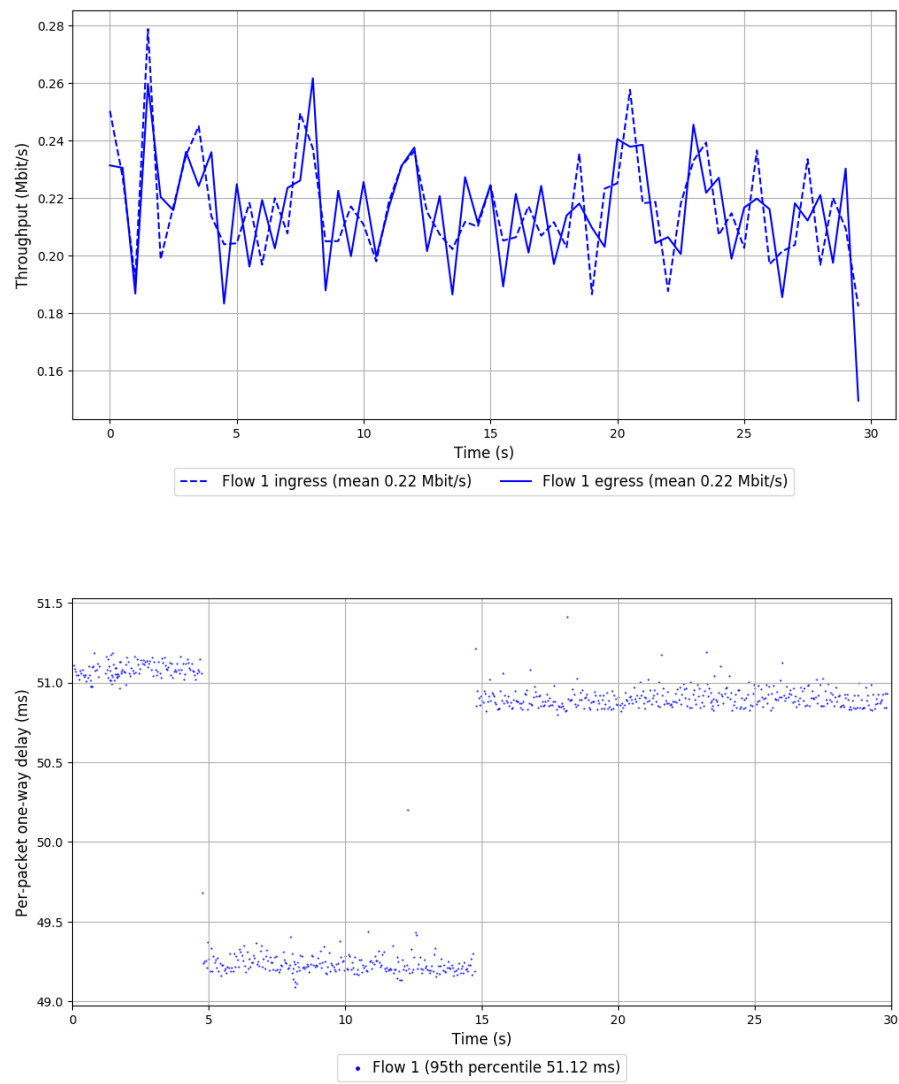
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.118 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-30 18:59:53

End at: 2018-01-30 19:00:23

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.129 ms

Loss rate: 0.26%

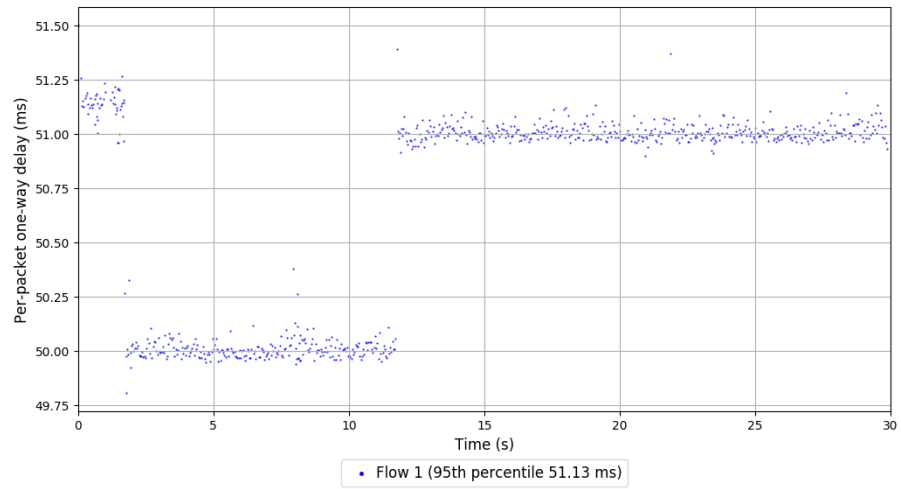
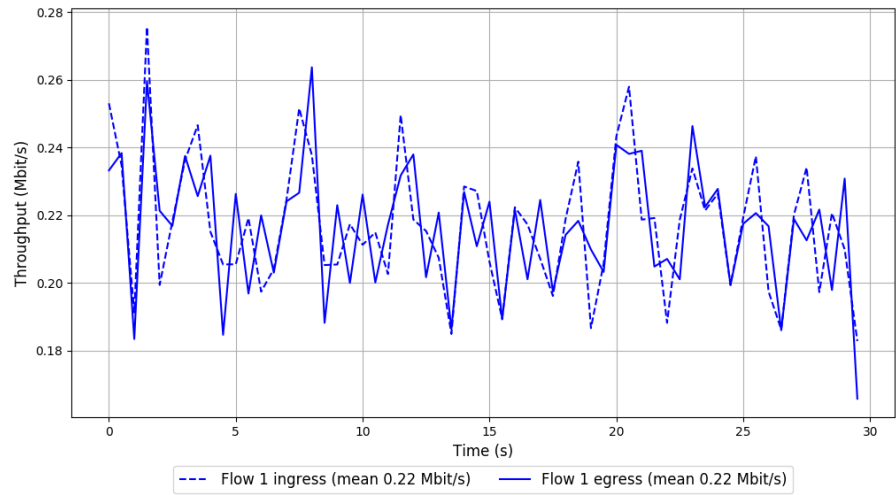
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.129 ms

Loss rate: 0.26%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-30 19:14:13

End at: 2018-01-30 19:14:43

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.870 ms

Loss rate: 0.26%

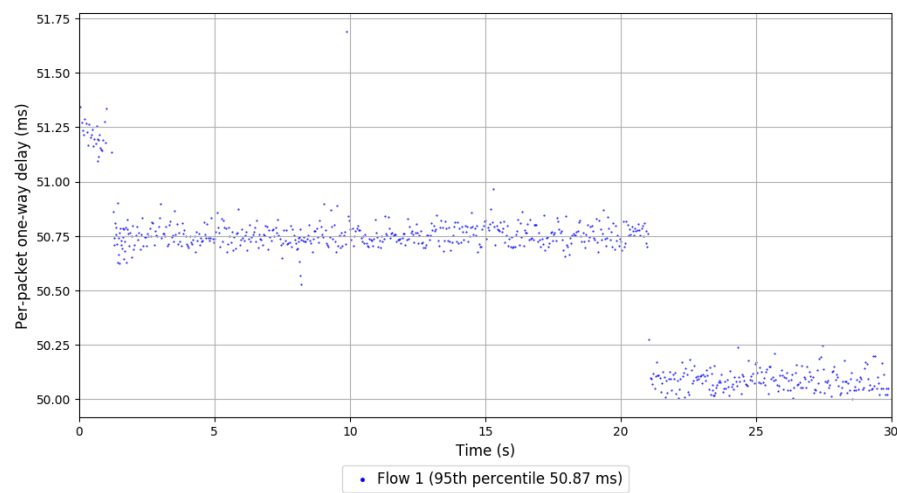
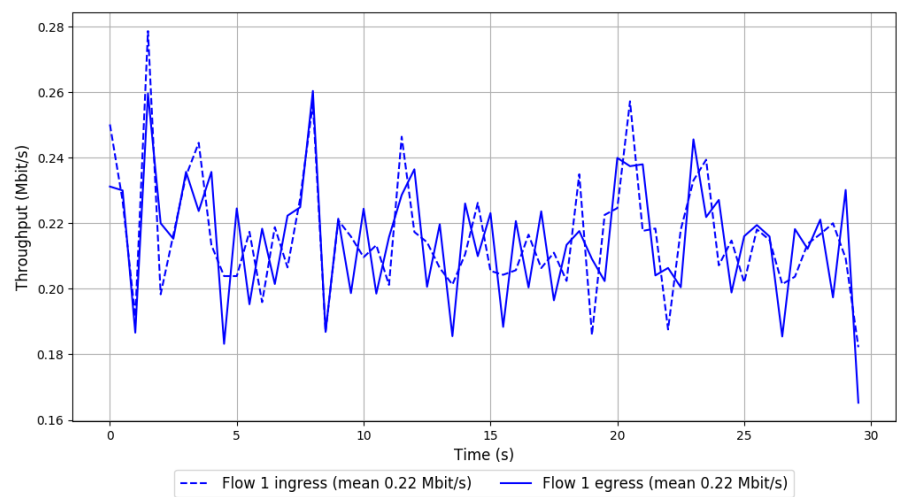
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.870 ms

Loss rate: 0.26%

Run 7: Report of SReAM — Data Link

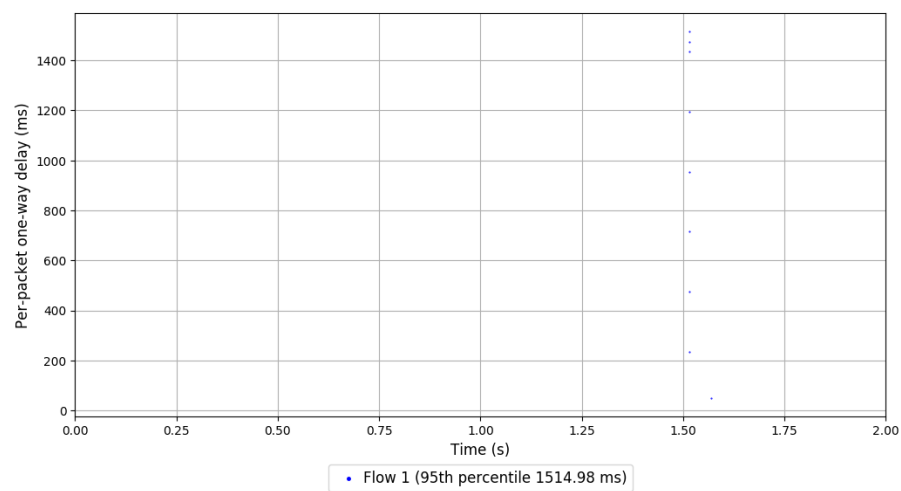
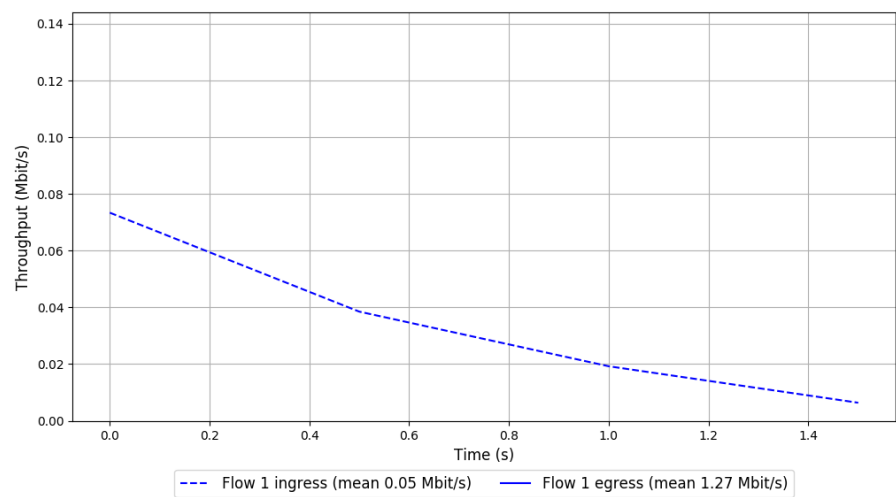


Run 8: Statistics of SReAM

Start at: 2018-01-30 19:28:10

End at: 2018-01-30 19:28:40

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-30 19:42:01

End at: 2018-01-30 19:42:31

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.220 ms

Loss rate: 0.38%

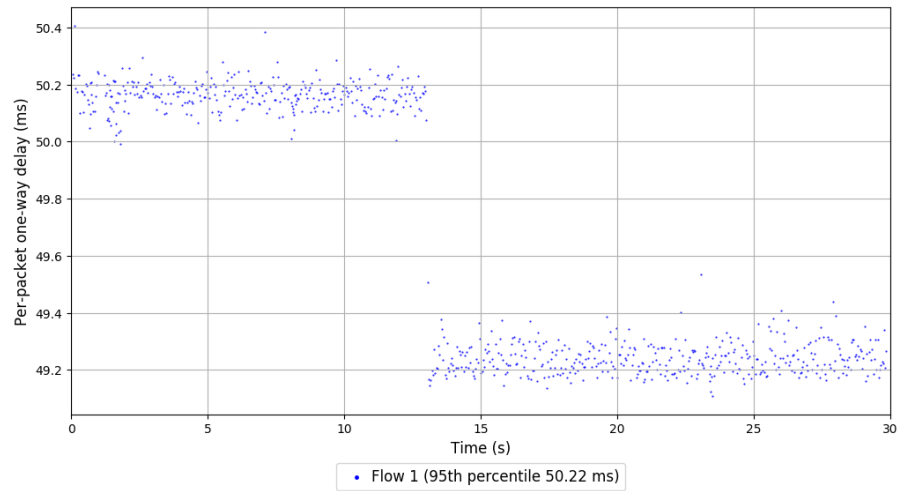
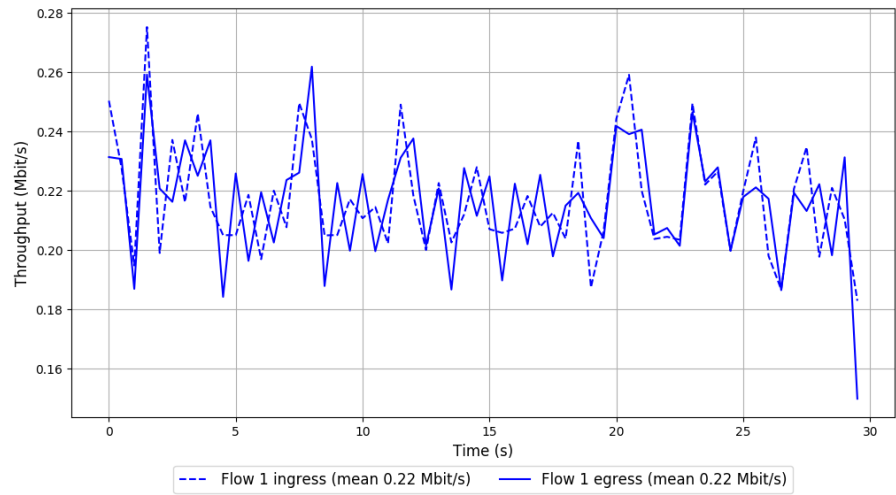
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.220 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

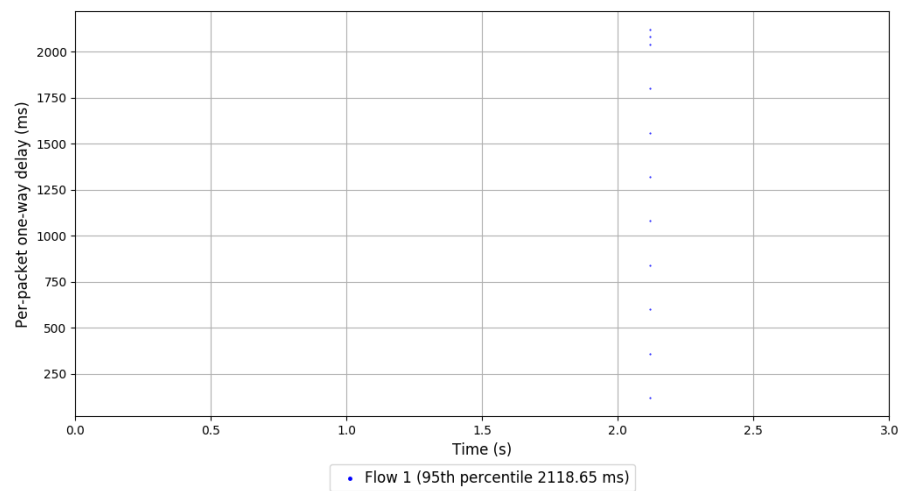
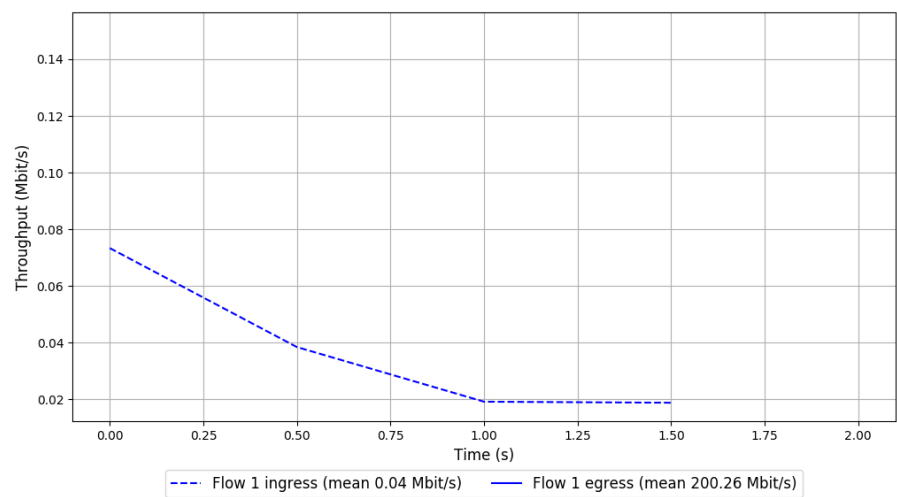


Run 10: Statistics of SCReAM

Start at: 2018-01-30 19:56:09

End at: 2018-01-30 19:56:39

Run 10: Report of SCReAM — Data Link

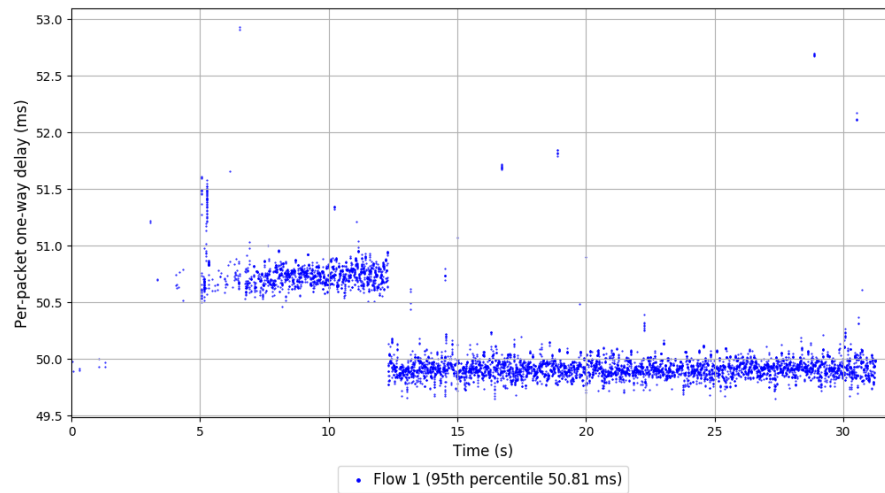
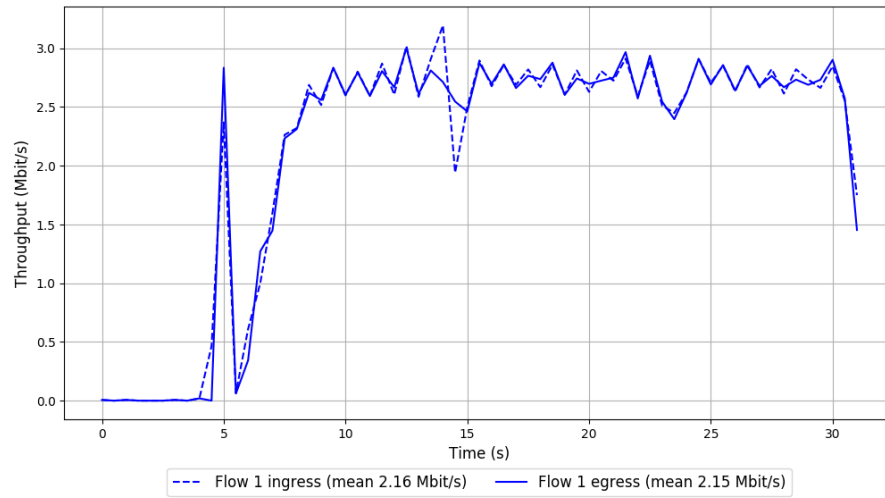


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-30 17:46:34
End at: 2018-01-30 17:47:04

# Below is generated by plot.py at 2018-01-30 22:55:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 50.814 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 50.814 ms
Loss rate: 0.38%
```


Run 1: Report of WebRTC media — Data Link

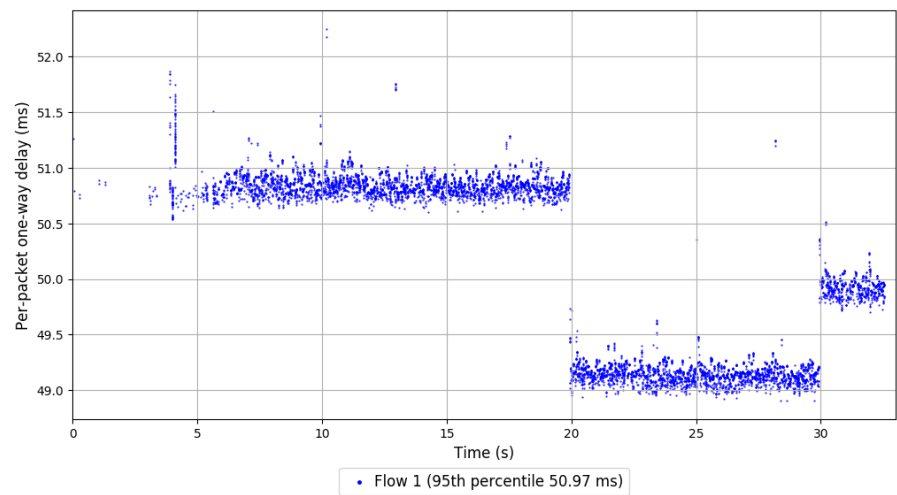
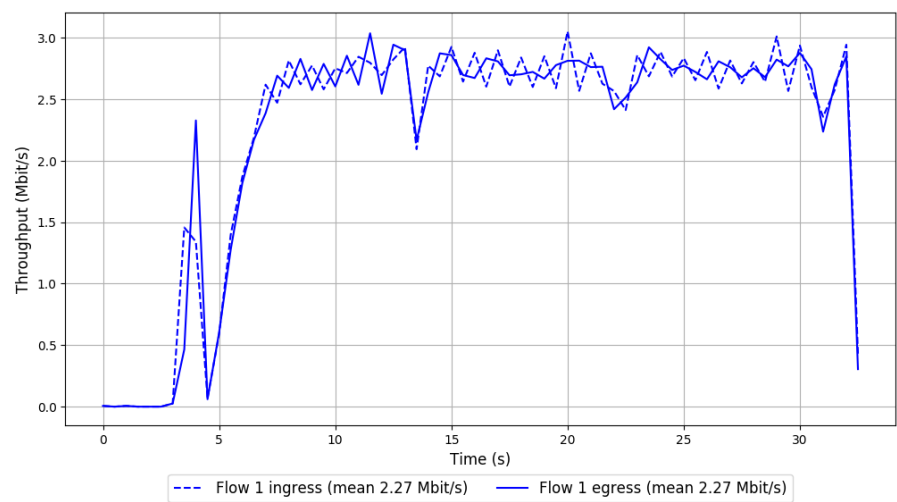


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-30 18:00:27
End at: 2018-01-30 18:00:57

# Below is generated by plot.py at 2018-01-30 22:55:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.965 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 50.965 ms
Loss rate: 0.29%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-30 18:14:21

End at: 2018-01-30 18:14:51

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.45%

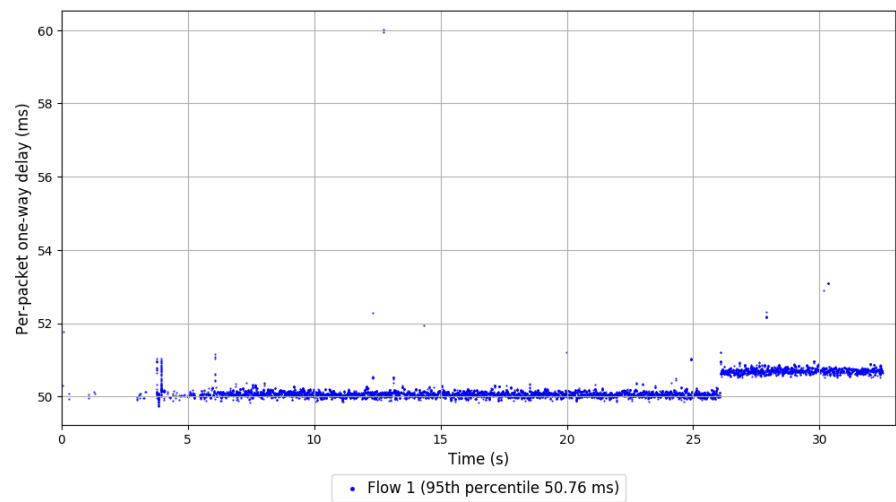
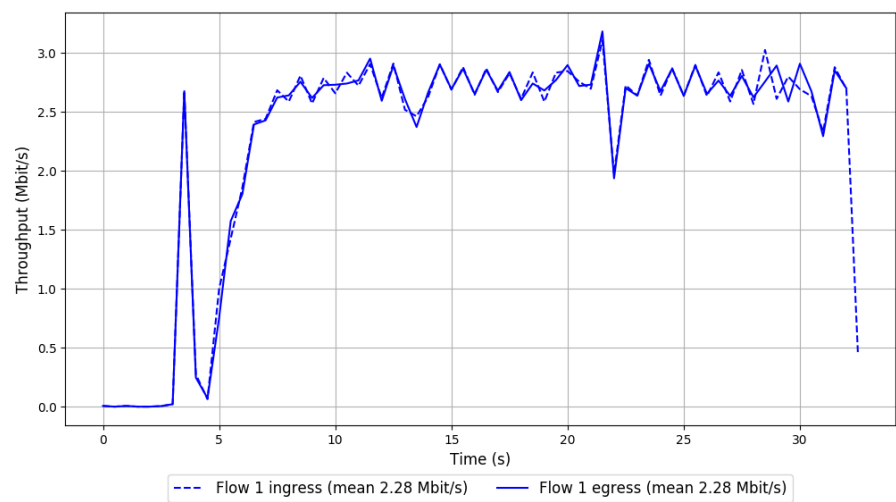
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.45%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-30 18:28:13

End at: 2018-01-30 18:28:43

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 0.45%

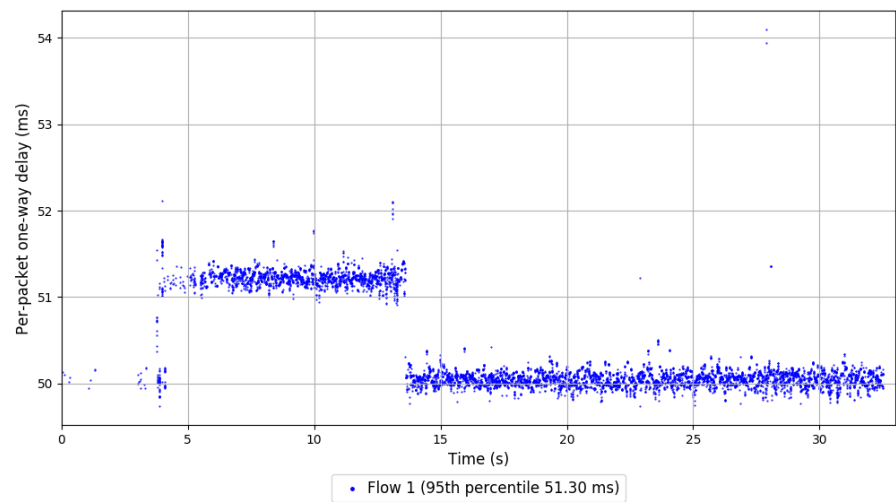
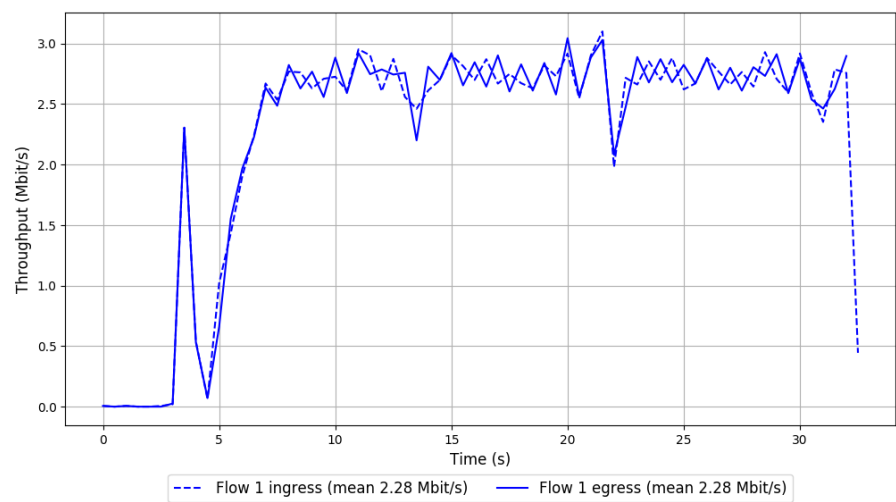
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 0.45%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-30 18:42:11

End at: 2018-01-30 18:42:41

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 51.213 ms

Loss rate: 0.29%

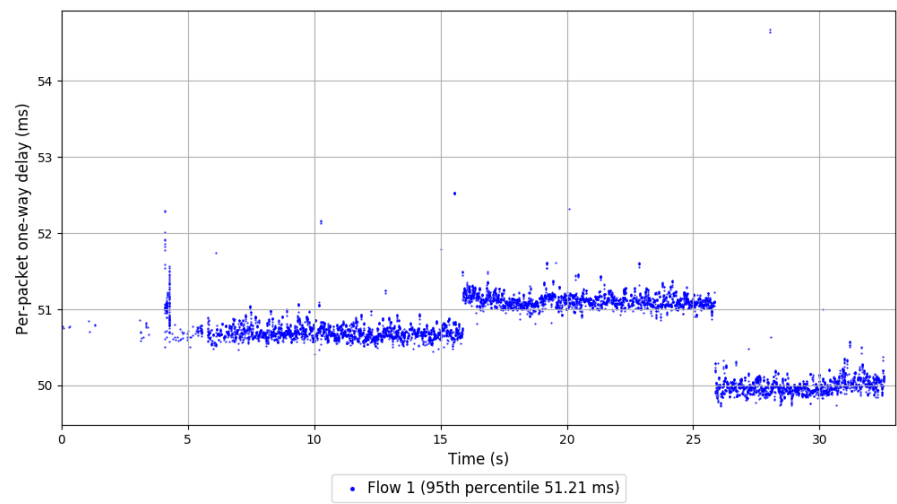
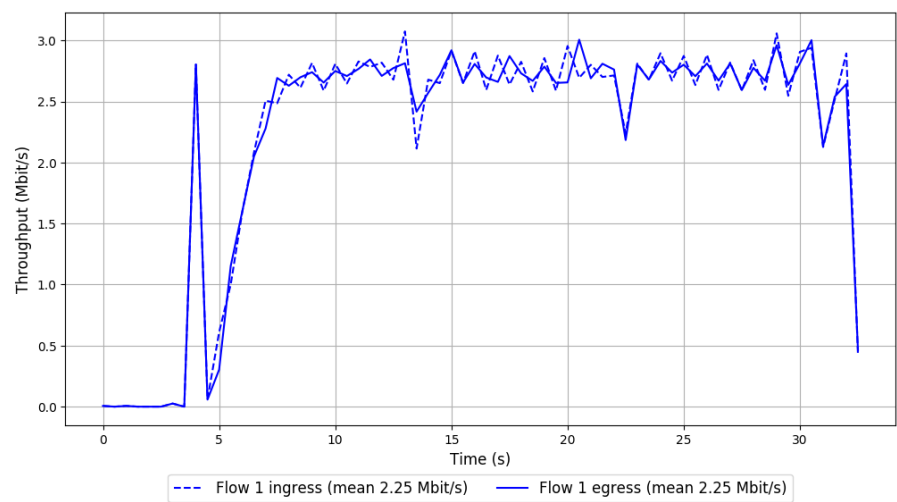
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 51.213 ms

Loss rate: 0.29%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-30 18:56:03

End at: 2018-01-30 18:56:33

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.124 ms

Loss rate: 0.45%

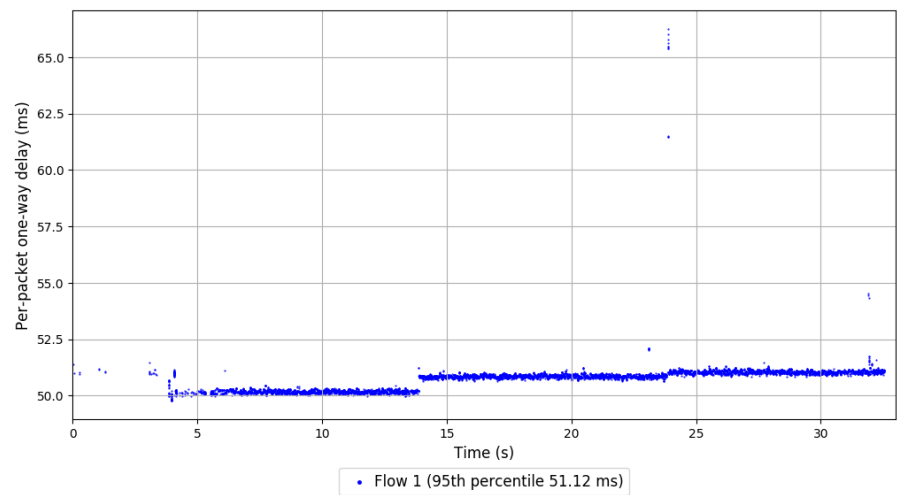
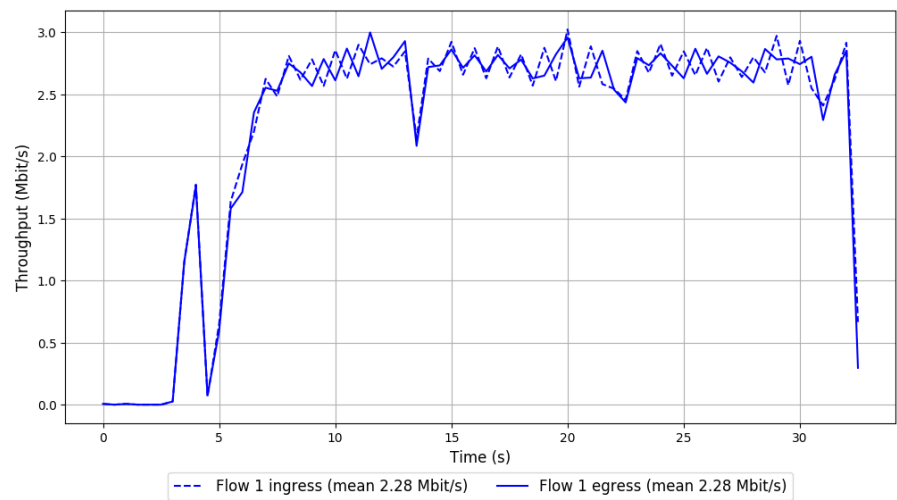
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.124 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-30 19:10:23

End at: 2018-01-30 19:10:53

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.223 ms

Loss rate: 0.46%

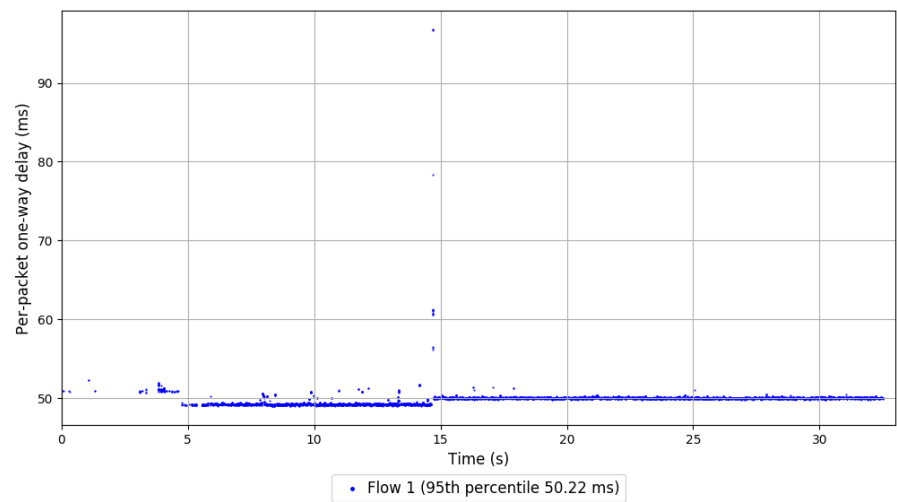
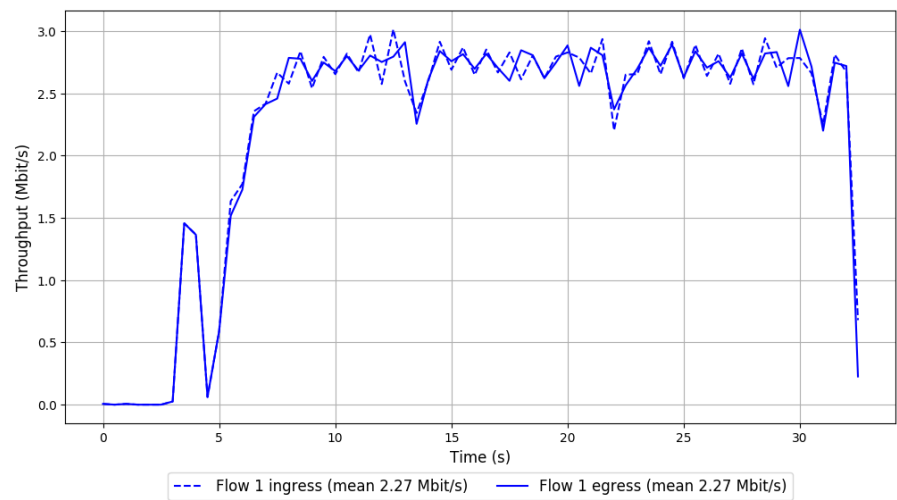
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.223 ms

Loss rate: 0.46%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-30 19:24:19

End at: 2018-01-30 19:24:49

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 51.225 ms

Loss rate: 0.42%

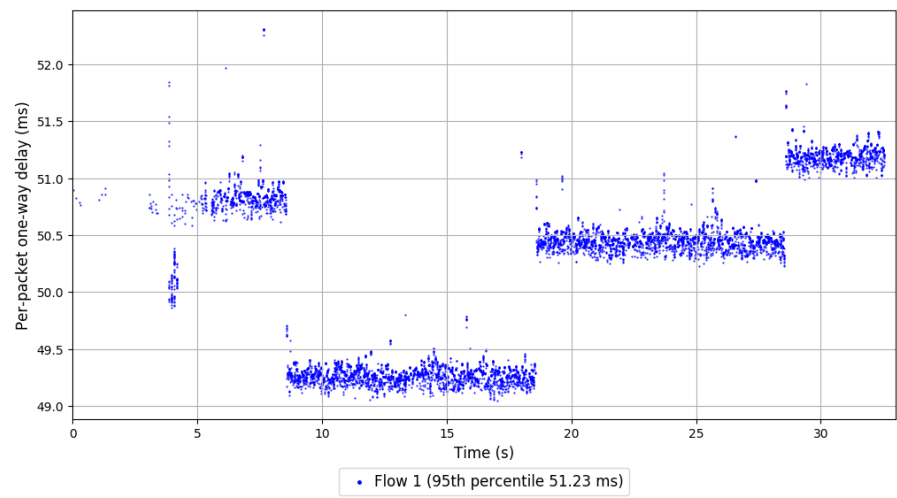
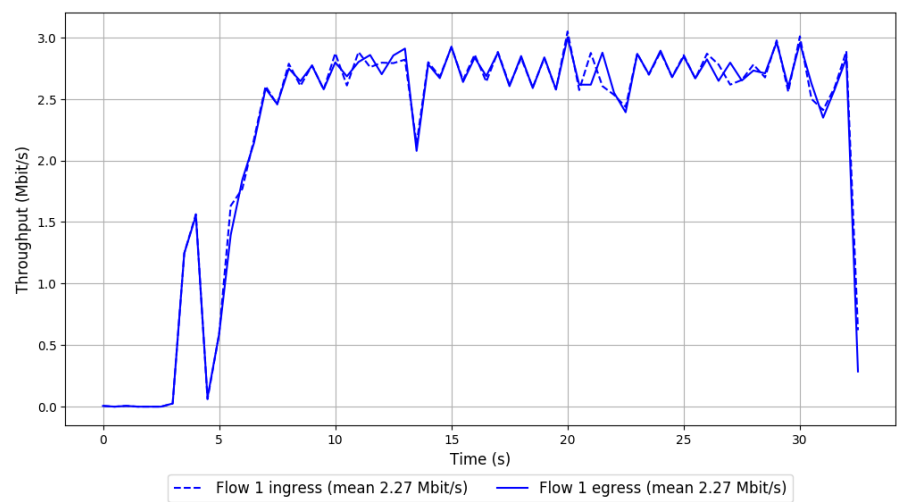
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 51.225 ms

Loss rate: 0.42%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-30 19:38:11

End at: 2018-01-30 19:38:41

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.262 ms

Loss rate: 0.34%

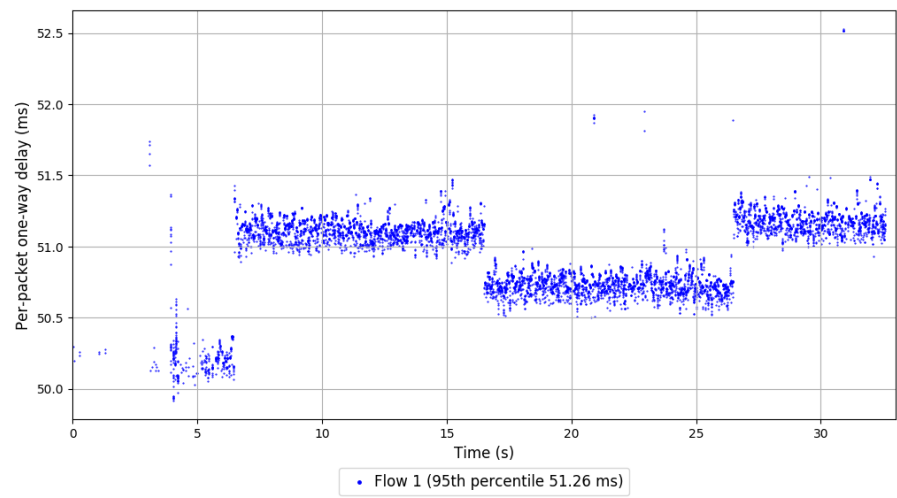
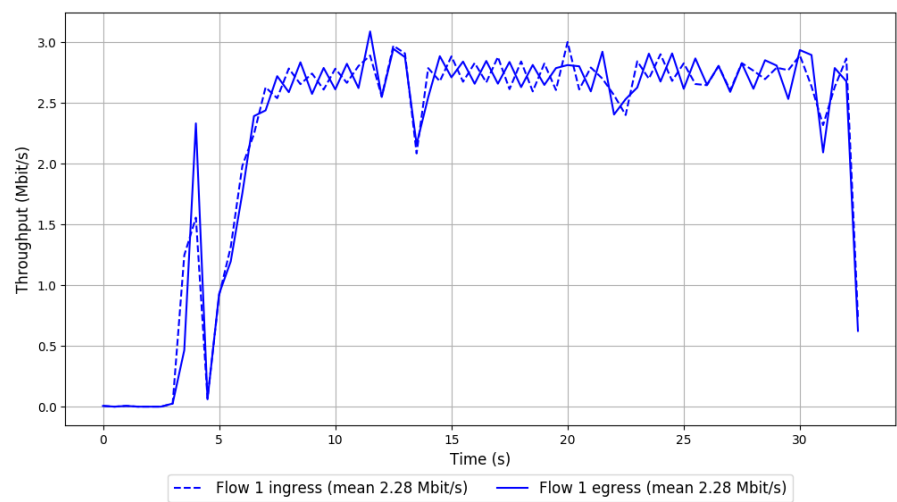
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.262 ms

Loss rate: 0.34%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-30 19:52:18

End at: 2018-01-30 19:52:48

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.094 ms

Loss rate: 0.31%

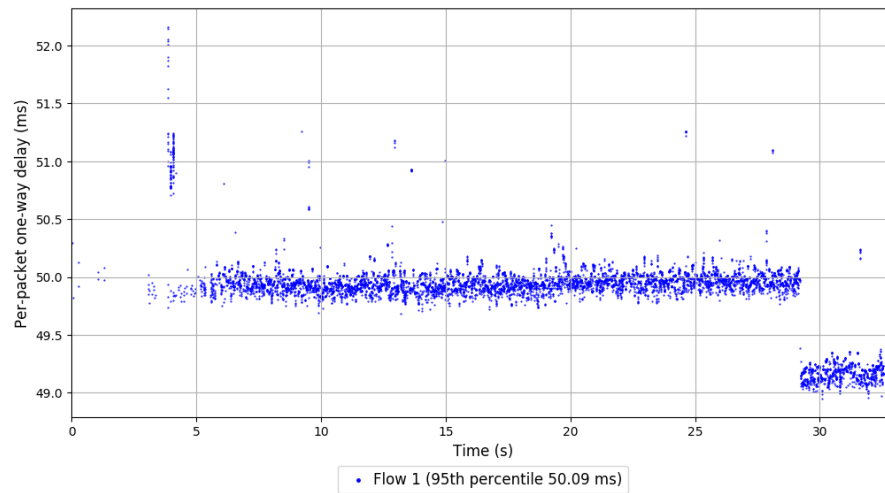
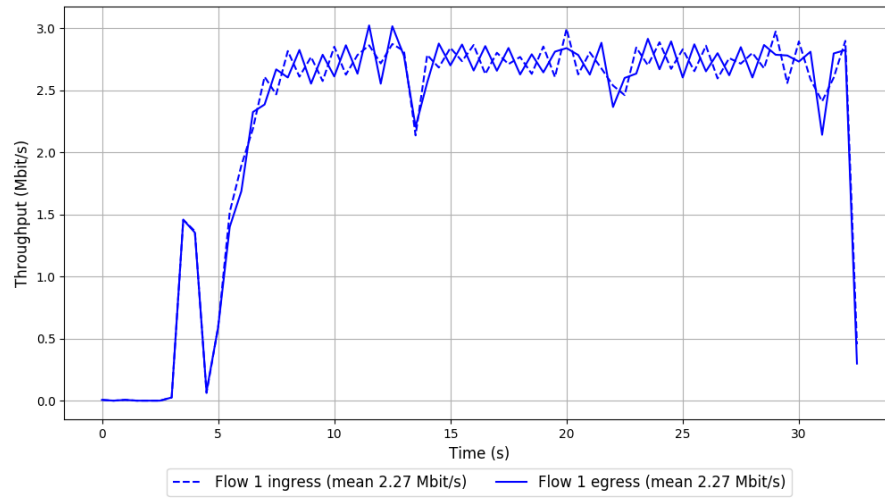
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.094 ms

Loss rate: 0.31%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-30 17:53:28

End at: 2018-01-30 17:53:58

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 51.897 ms

Loss rate: 1.68%

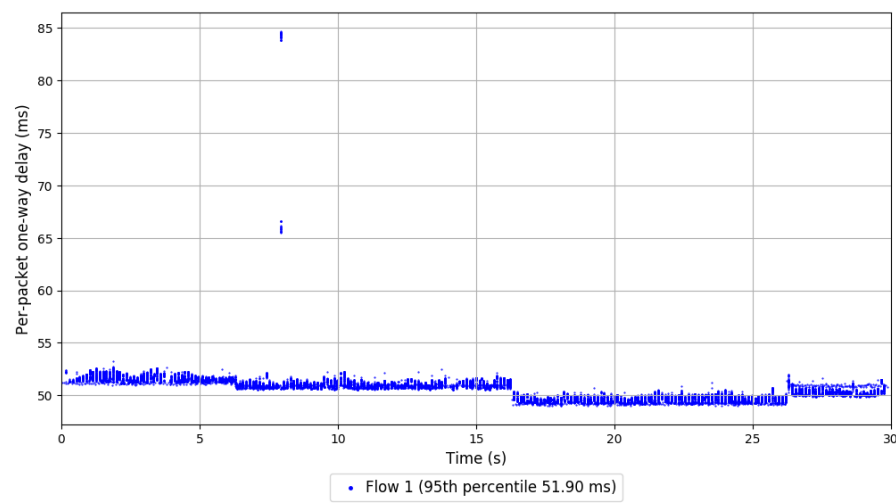
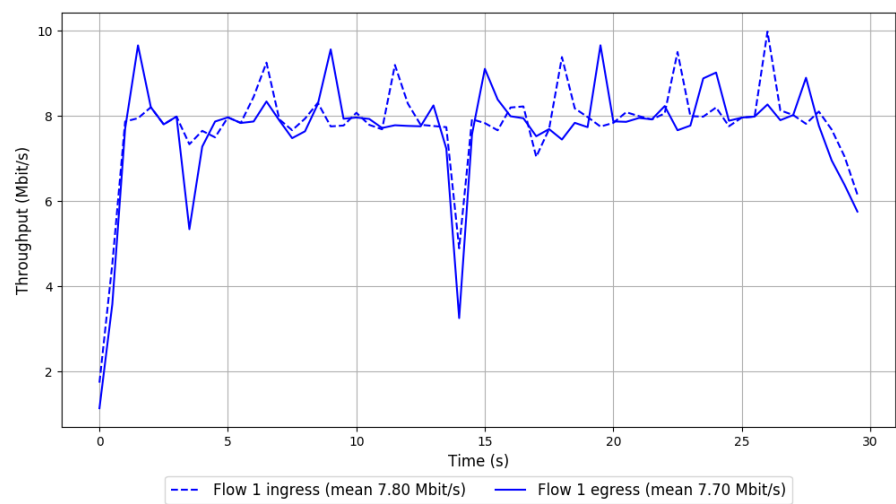
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 51.897 ms

Loss rate: 1.68%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-30 18:07:20

End at: 2018-01-30 18:07:50

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 2.12%

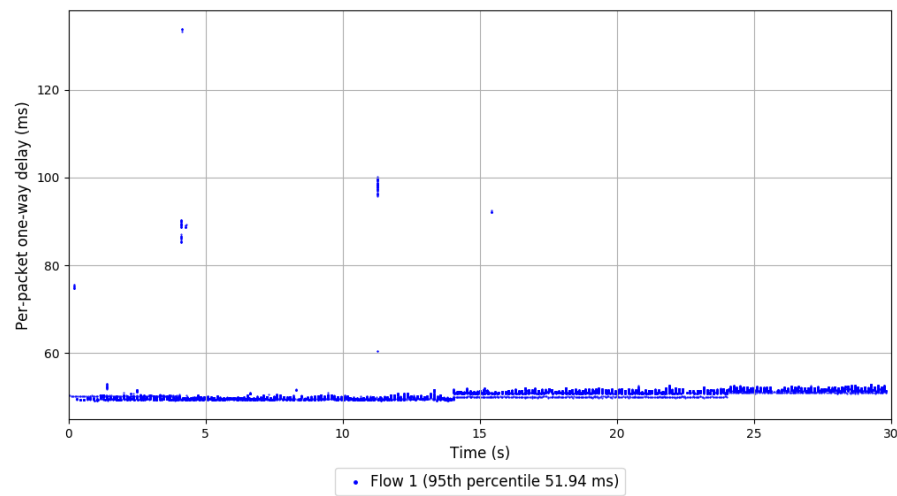
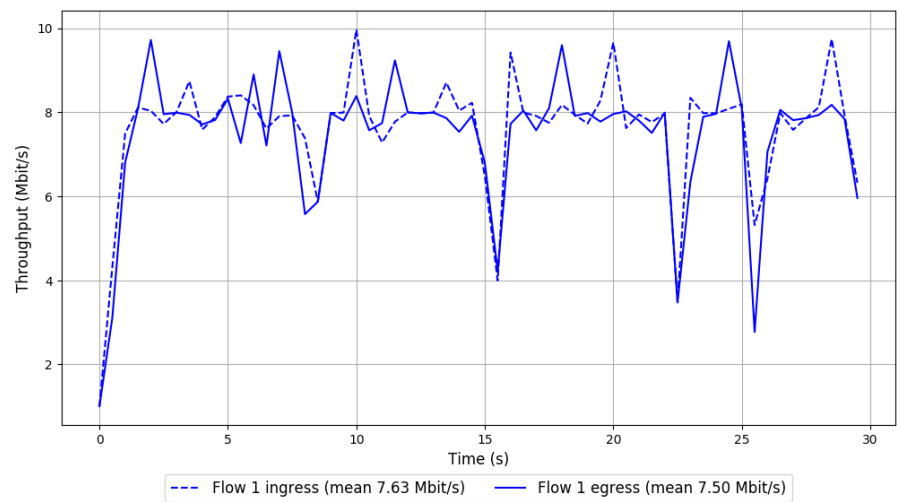
-- Flow 1:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 2.12%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-30 18:21:17

End at: 2018-01-30 18:21:47

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 51.518 ms

Loss rate: 1.35%

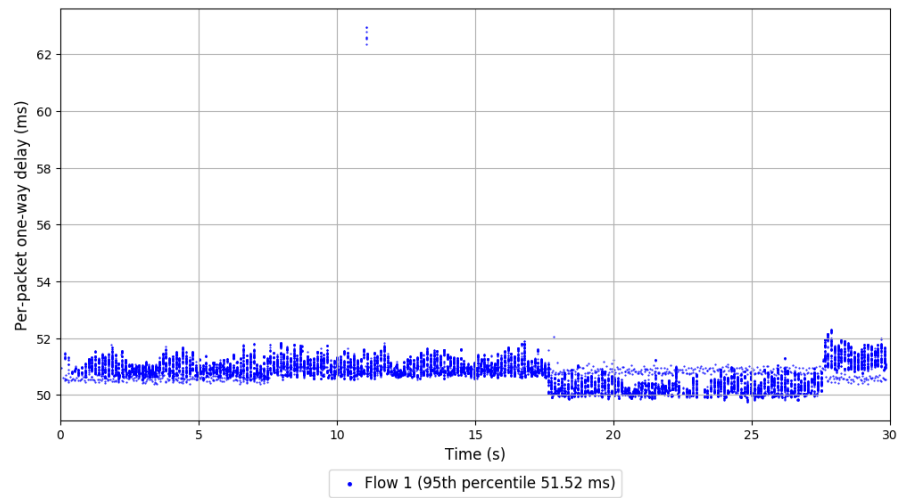
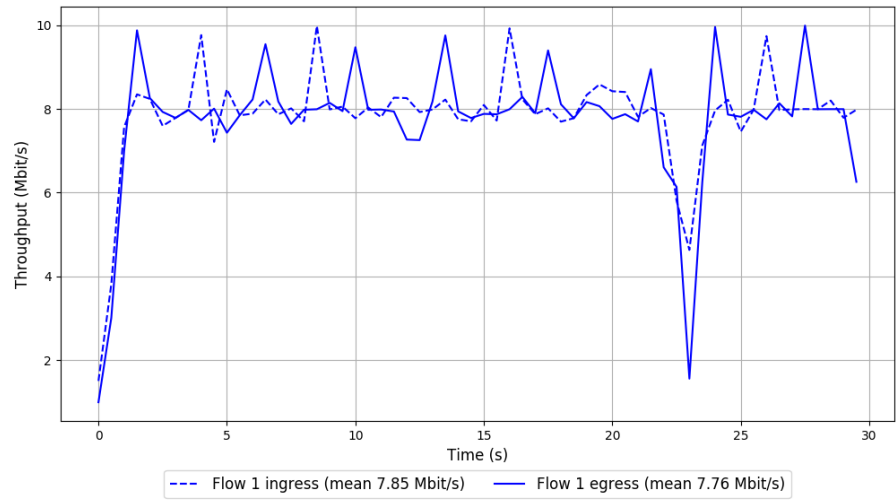
-- Flow 1:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 51.518 ms

Loss rate: 1.35%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-30 18:35:10

End at: 2018-01-30 18:35:40

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 51.449 ms

Loss rate: 1.89%

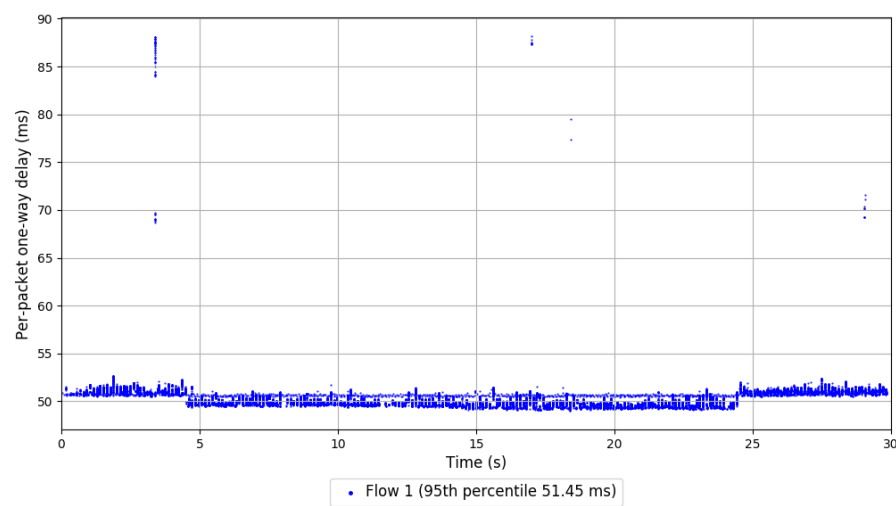
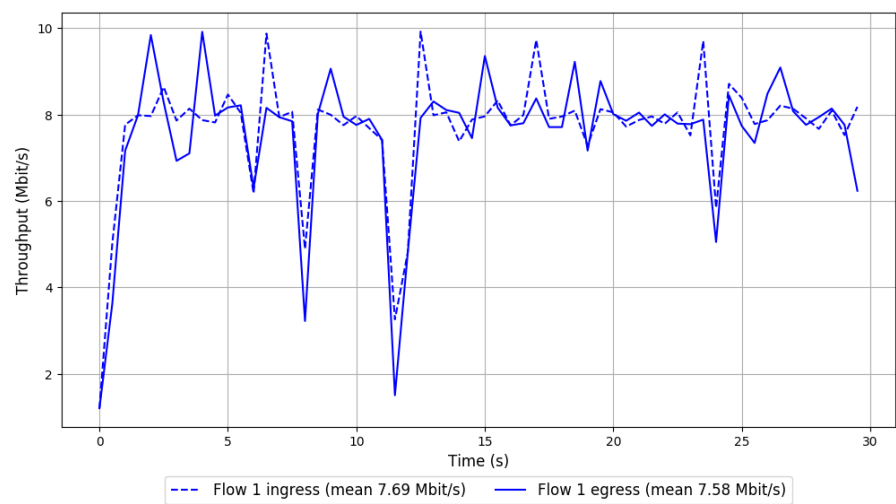
-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 51.449 ms

Loss rate: 1.89%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-30 18:49:13

End at: 2018-01-30 18:49:43

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 50.996 ms

Loss rate: 1.45%

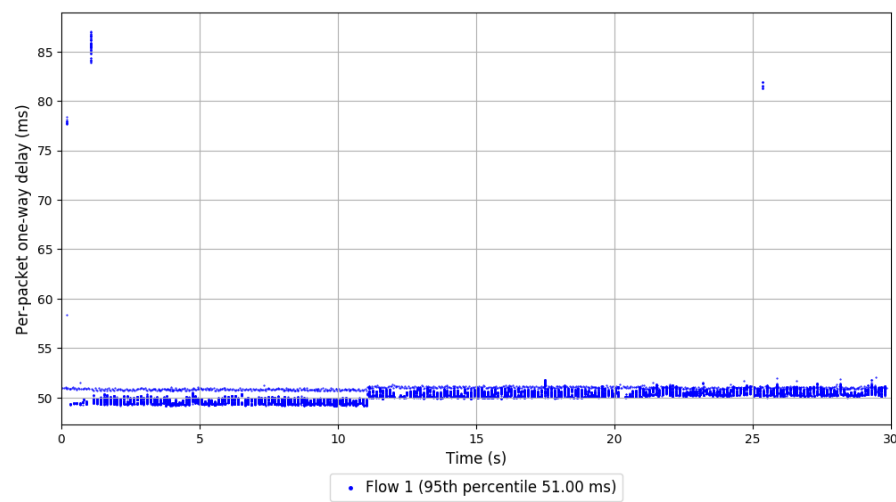
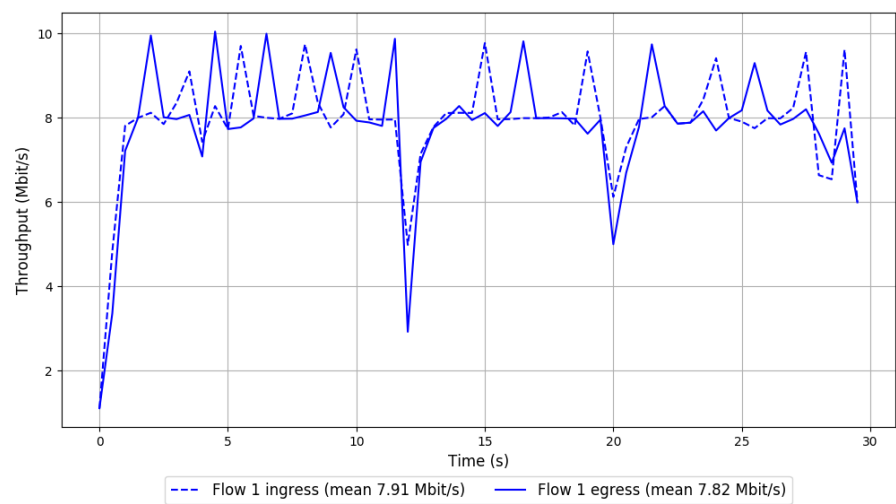
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 50.996 ms

Loss rate: 1.45%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-30 19:03:05

End at: 2018-01-30 19:03:35

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 52.071 ms

Loss rate: 1.00%

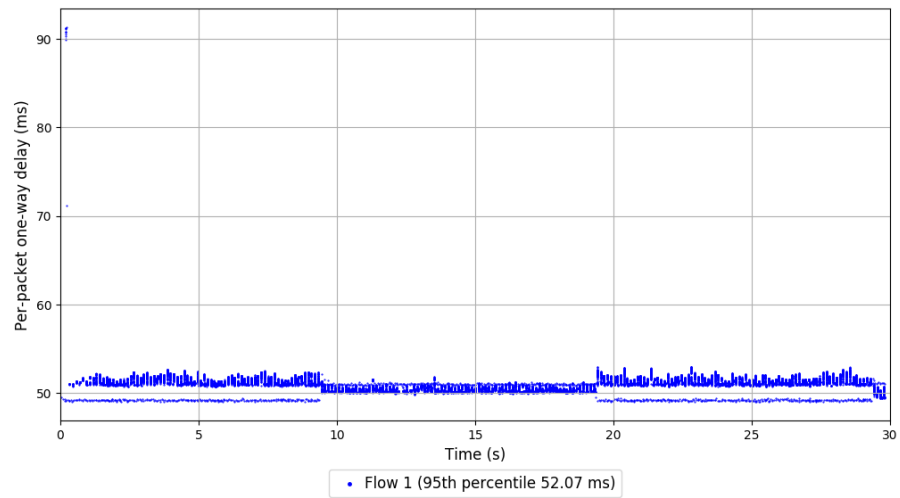
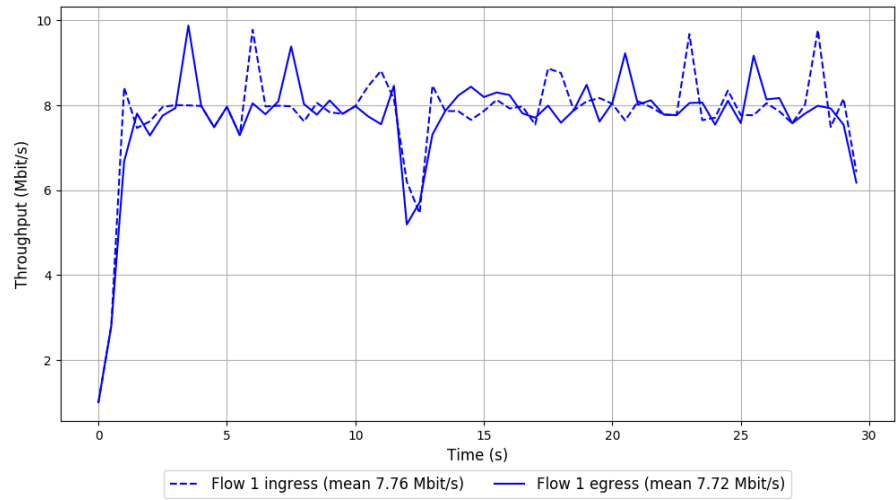
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 52.071 ms

Loss rate: 1.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-30 19:17:18

End at: 2018-01-30 19:17:48

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 51.691 ms

Loss rate: 1.78%

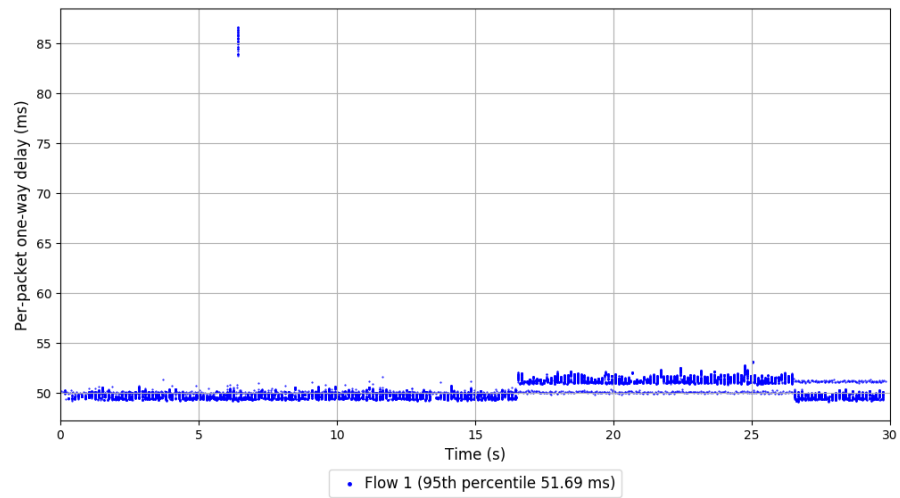
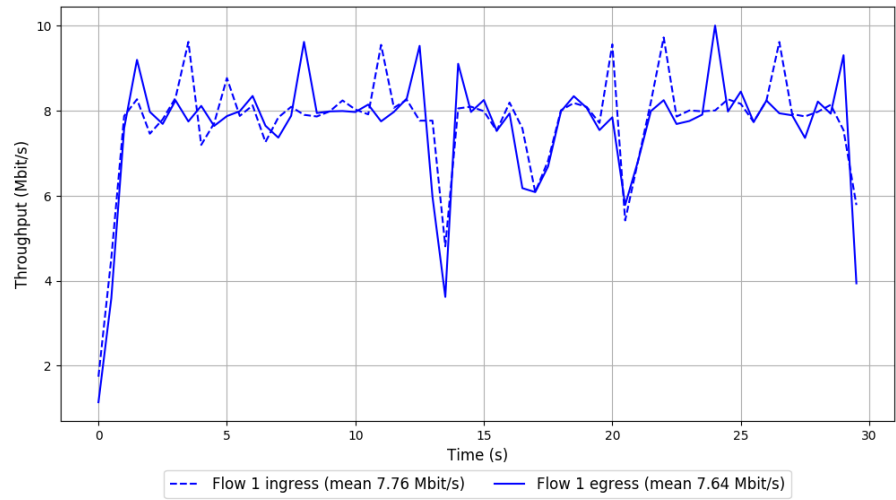
-- Flow 1:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 51.691 ms

Loss rate: 1.78%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-30 19:31:14

End at: 2018-01-30 19:31:44

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 51.884 ms

Loss rate: 1.96%

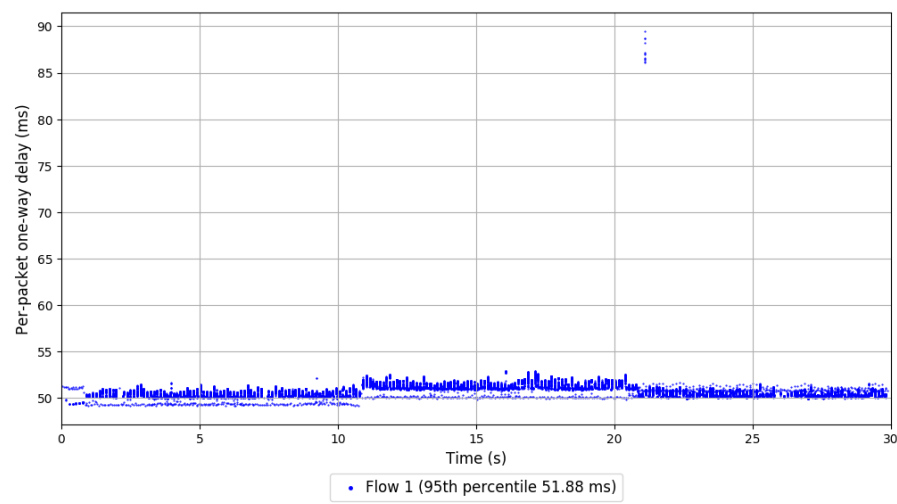
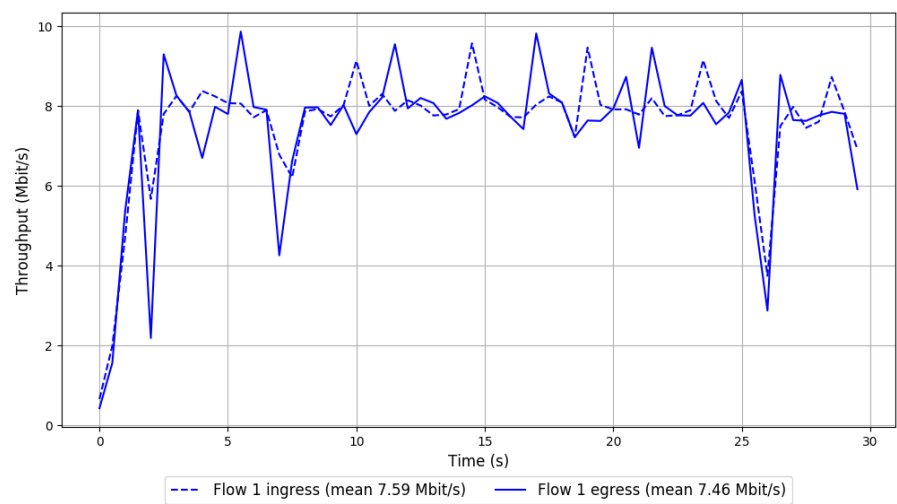
-- Flow 1:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 51.884 ms

Loss rate: 1.96%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-30 19:45:16

End at: 2018-01-30 19:45:46

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.979 ms

Loss rate: 1.15%

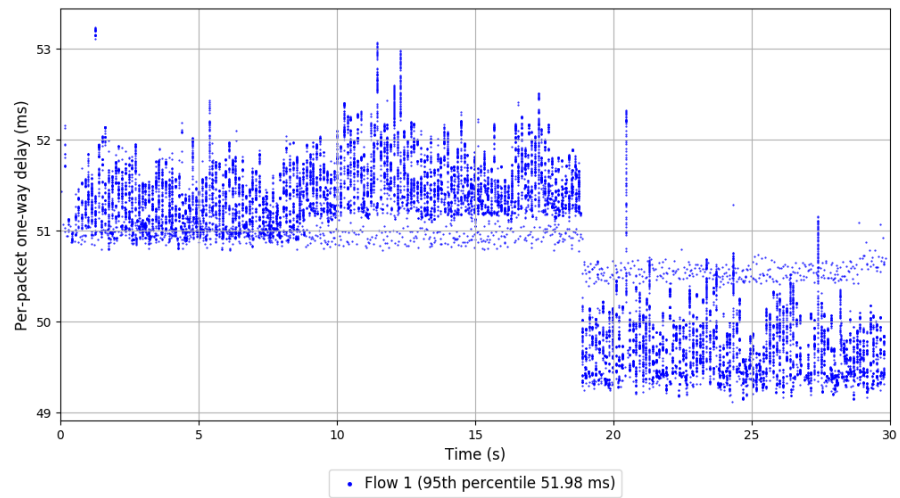
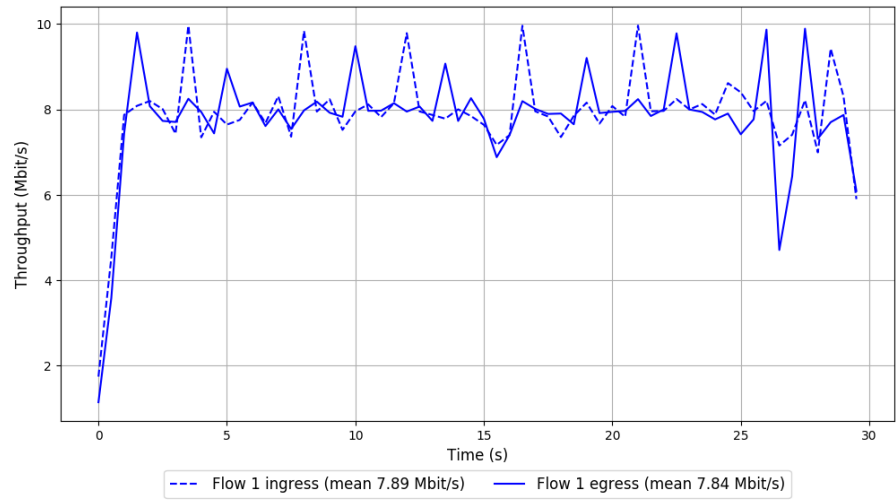
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.979 ms

Loss rate: 1.15%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-30 19:59:00

End at: 2018-01-30 19:59:30

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 52.030 ms

Loss rate: 1.15%

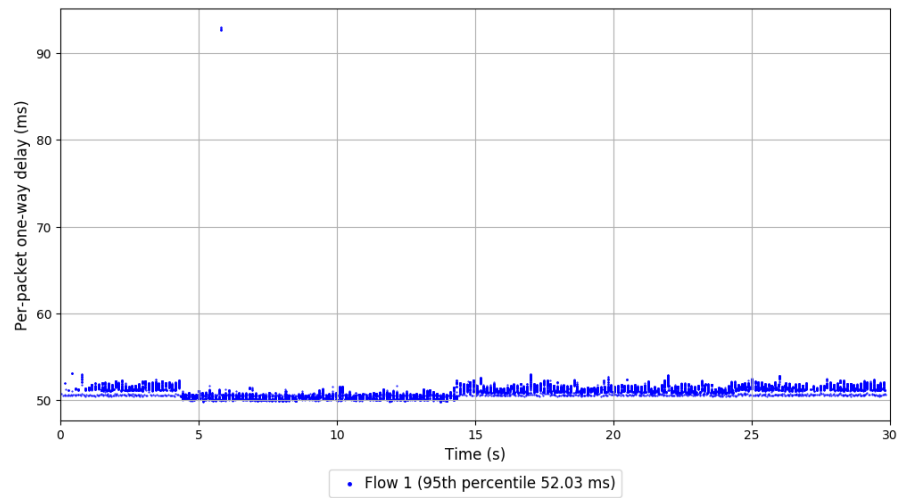
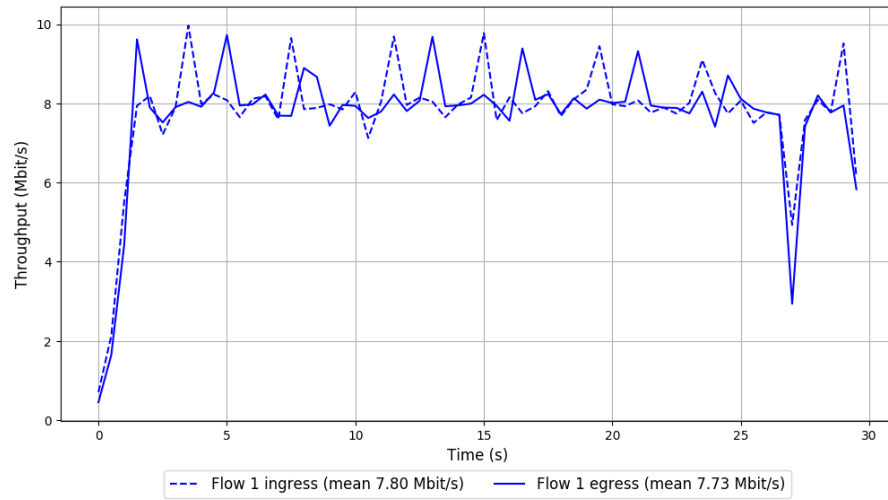
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 52.030 ms

Loss rate: 1.15%

Run 10: Report of Sprout — Data Link

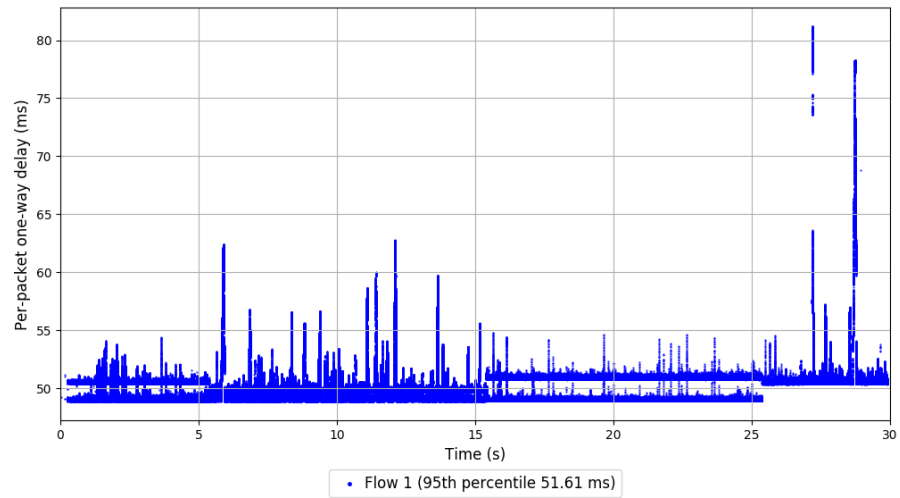
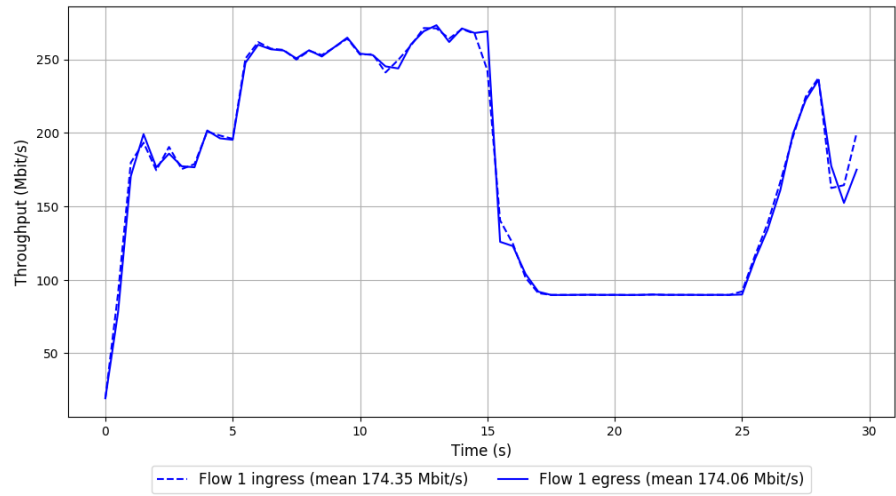


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-30 17:51:59
End at: 2018-01-30 17:52:29

# Below is generated by plot.py at 2018-01-30 22:55:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.06 Mbit/s
95th percentile per-packet one-way delay: 51.613 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 174.06 Mbit/s
95th percentile per-packet one-way delay: 51.613 ms
Loss rate: 0.50%
```


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

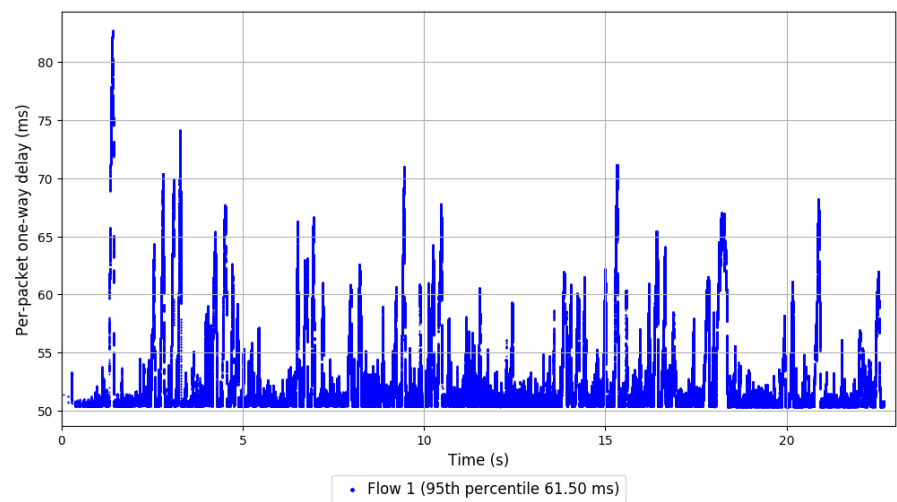
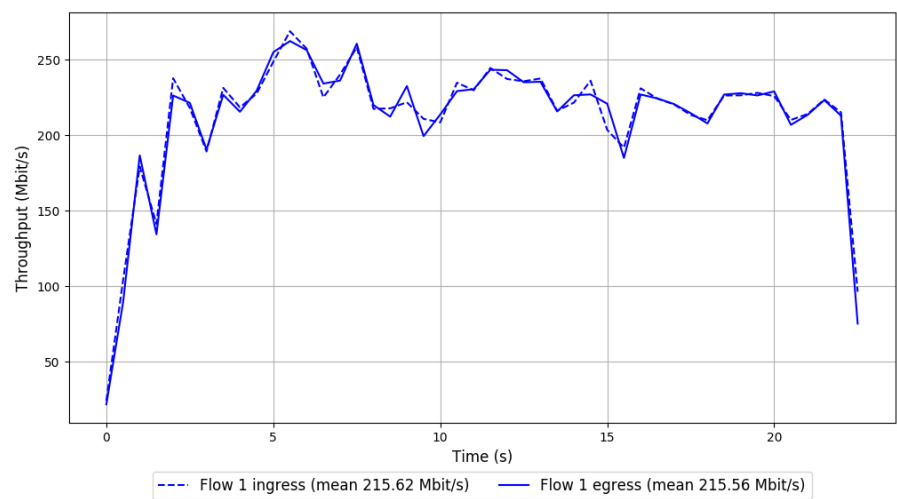


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-30 18:05:49

End at: 2018-01-30 18:06:19

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-30 18:19:47

End at: 2018-01-30 18:20:17

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.45 Mbit/s

95th percentile per-packet one-way delay: 53.435 ms

Loss rate: 0.43%

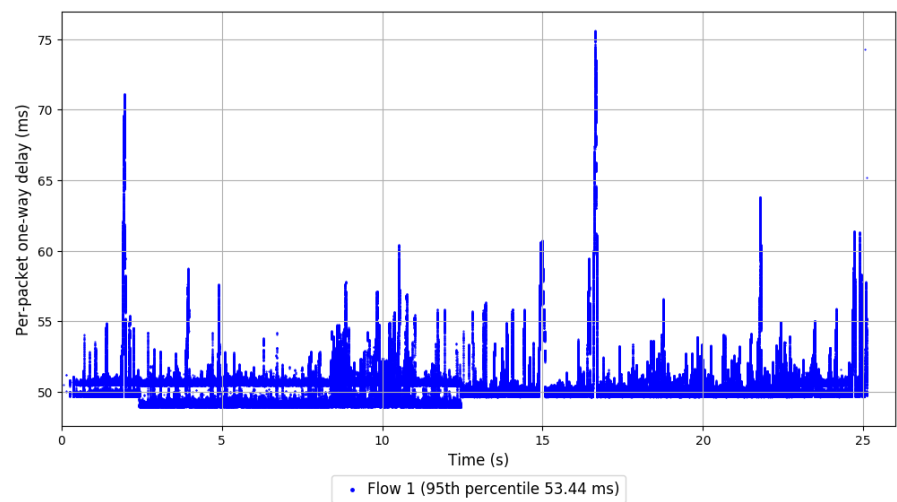
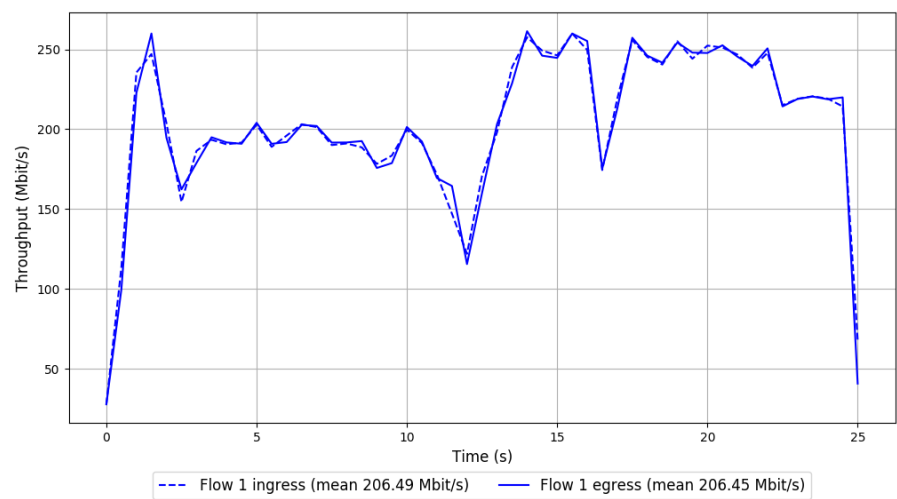
-- Flow 1:

Average throughput: 206.45 Mbit/s

95th percentile per-packet one-way delay: 53.435 ms

Loss rate: 0.43%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-30 18:33:38

End at: 2018-01-30 18:34:08

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.38 Mbit/s

95th percentile per-packet one-way delay: 56.064 ms

Loss rate: 0.32%

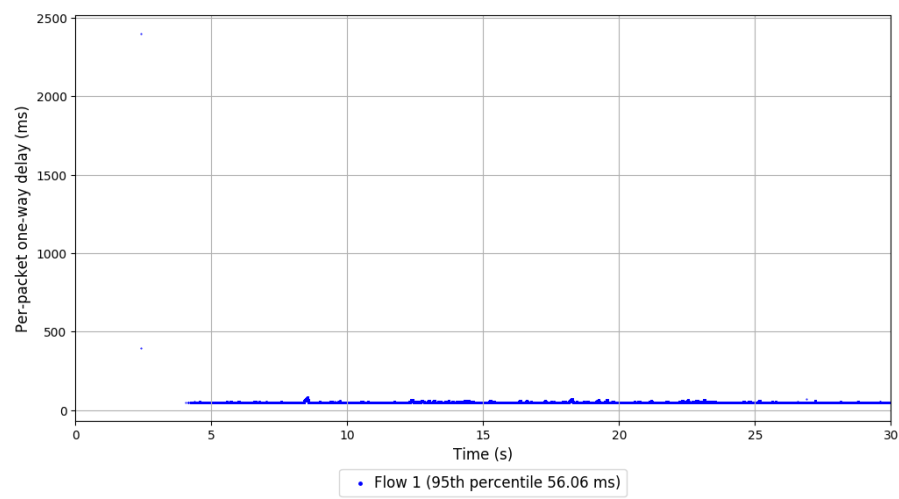
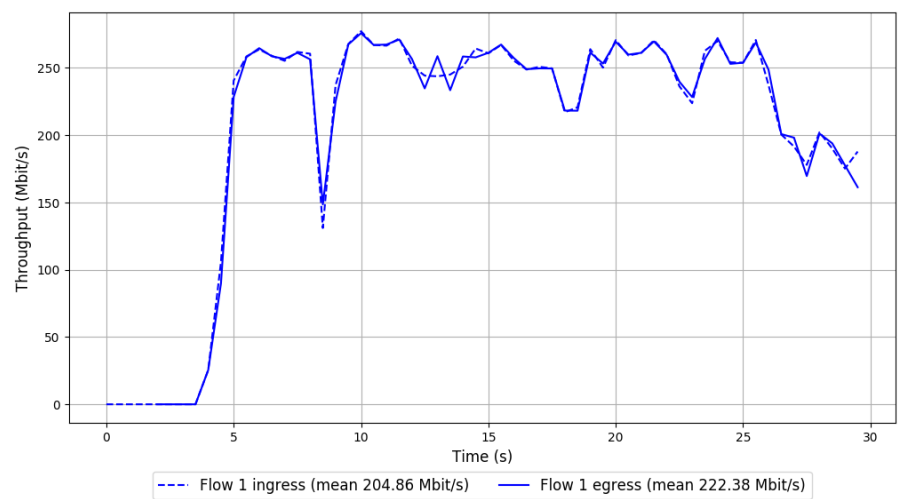
-- Flow 1:

Average throughput: 222.38 Mbit/s

95th percentile per-packet one-way delay: 56.064 ms

Loss rate: 0.32%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-30 18:47:37

End at: 2018-01-30 18:48:07

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.41 Mbit/s

95th percentile per-packet one-way delay: 59.704 ms

Loss rate: 0.33%

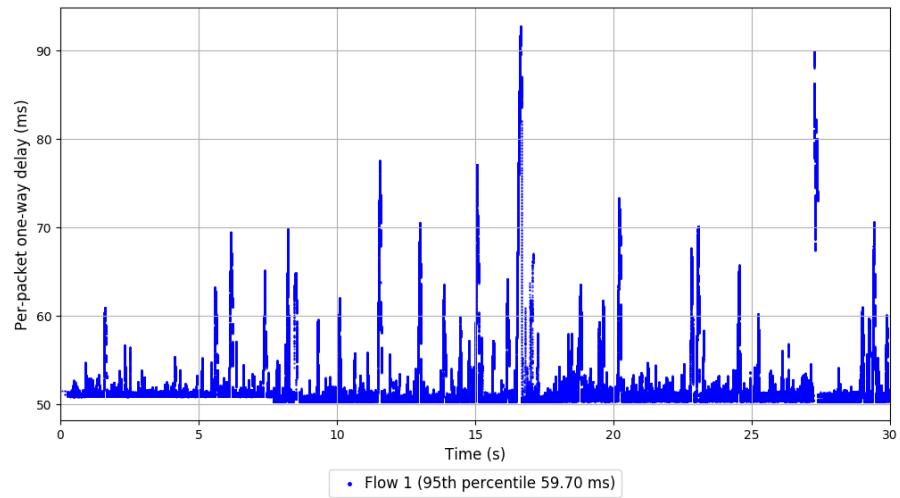
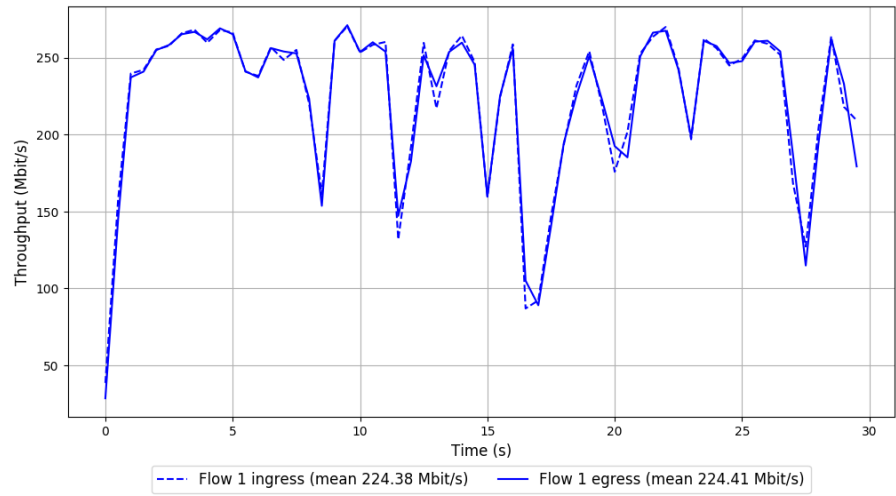
-- Flow 1:

Average throughput: 224.41 Mbit/s

95th percentile per-packet one-way delay: 59.704 ms

Loss rate: 0.33%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-30 19:01:29

End at: 2018-01-30 19:01:59

Below is generated by plot.py at 2018-01-30 22:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.97 Mbit/s

95th percentile per-packet one-way delay: 62.788 ms

Loss rate: 0.41%

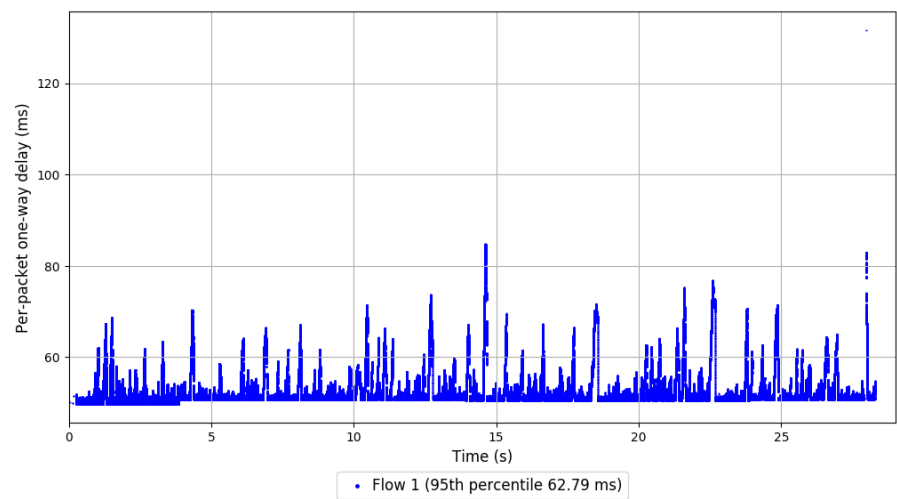
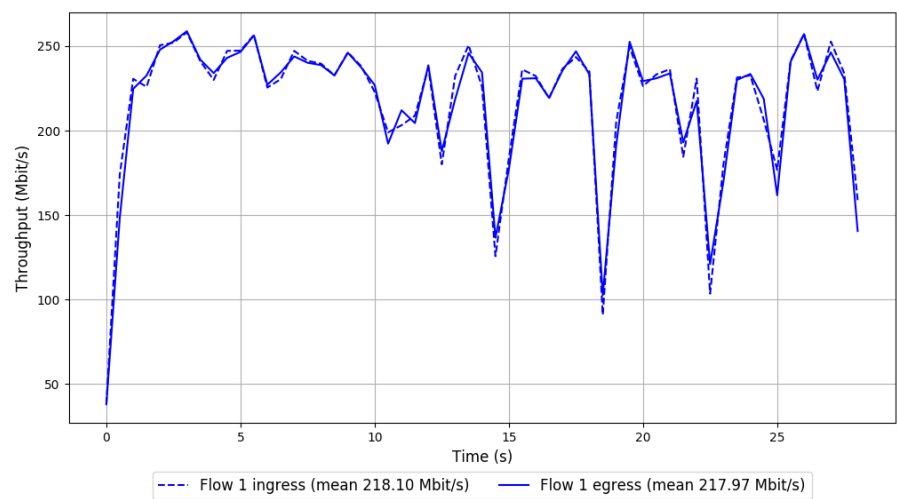
-- Flow 1:

Average throughput: 217.97 Mbit/s

95th percentile per-packet one-way delay: 62.788 ms

Loss rate: 0.41%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-30 19:15:50

End at: 2018-01-30 19:16:20

Below is generated by plot.py at 2018-01-30 22:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.79 Mbit/s

95th percentile per-packet one-way delay: 51.381 ms

Loss rate: 0.20%

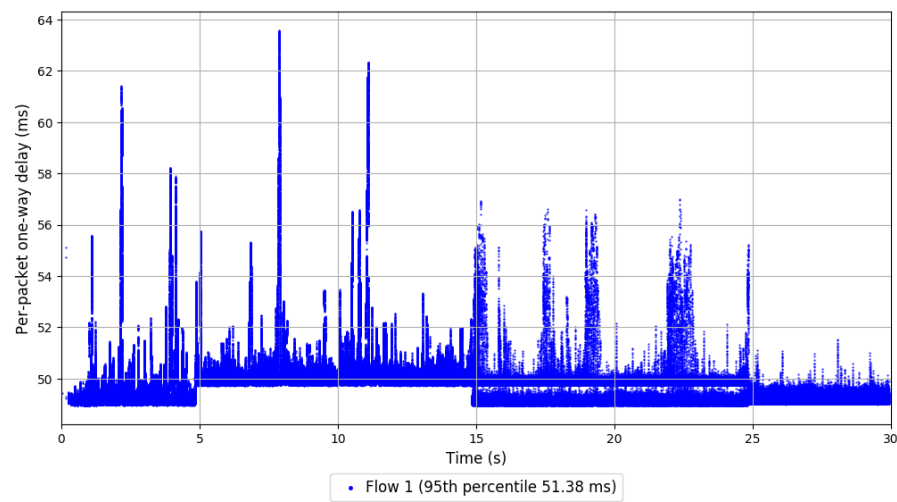
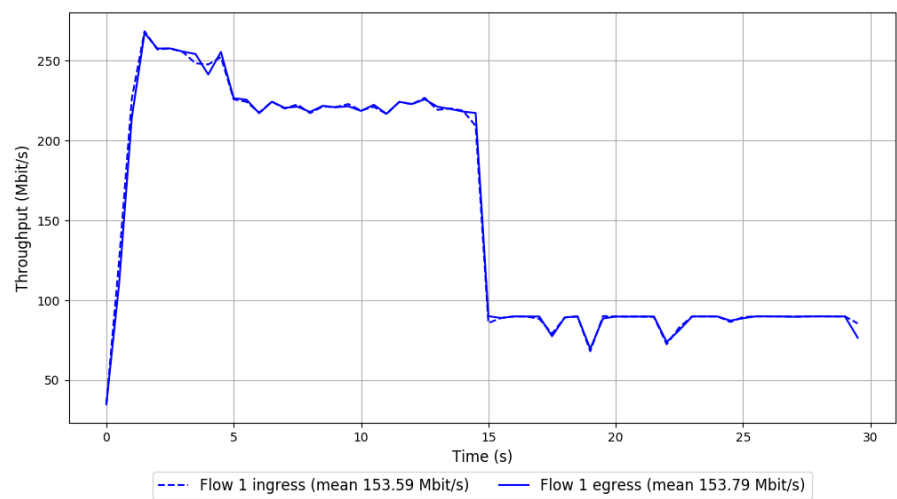
-- Flow 1:

Average throughput: 153.79 Mbit/s

95th percentile per-packet one-way delay: 51.381 ms

Loss rate: 0.20%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-30 19:29:45

End at: 2018-01-30 19:30:15

Below is generated by plot.py at 2018-01-30 22:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.61 Mbit/s

95th percentile per-packet one-way delay: 59.071 ms

Loss rate: 0.24%

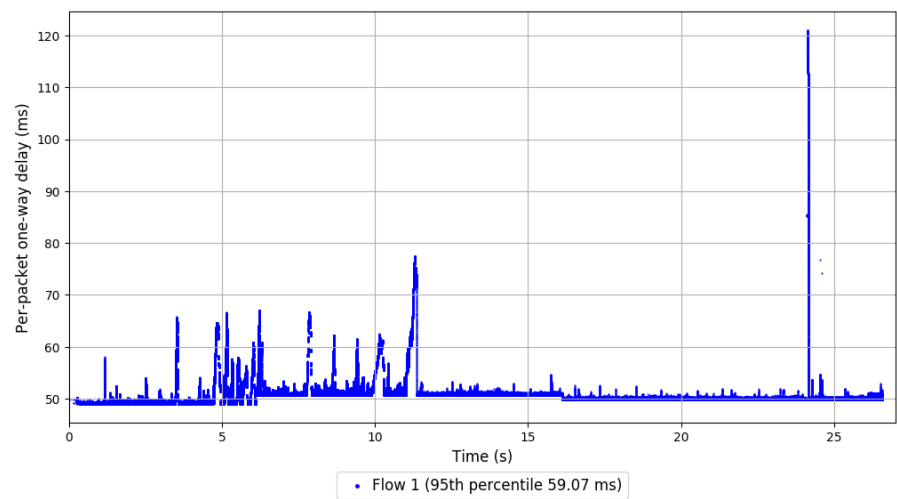
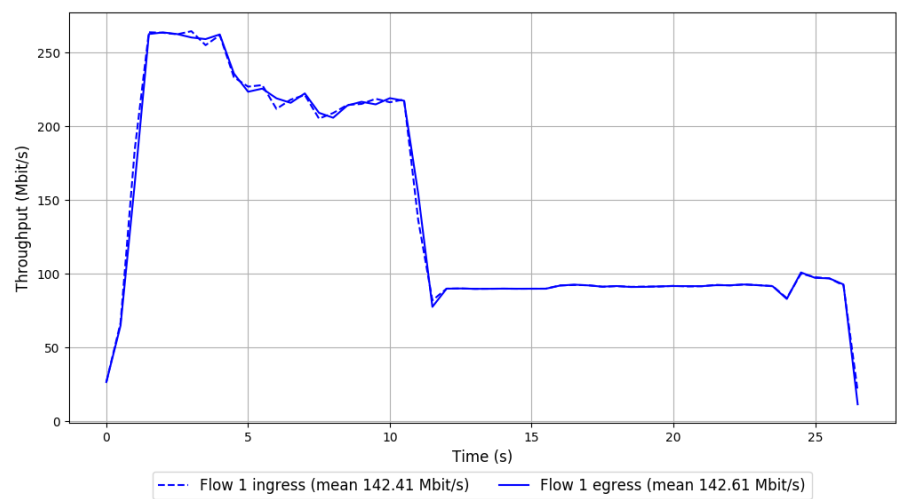
-- Flow 1:

Average throughput: 142.61 Mbit/s

95th percentile per-packet one-way delay: 59.071 ms

Loss rate: 0.24%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-30 19:43:39

End at: 2018-01-30 19:44:09

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.61 Mbit/s

95th percentile per-packet one-way delay: 61.014 ms

Loss rate: 0.41%

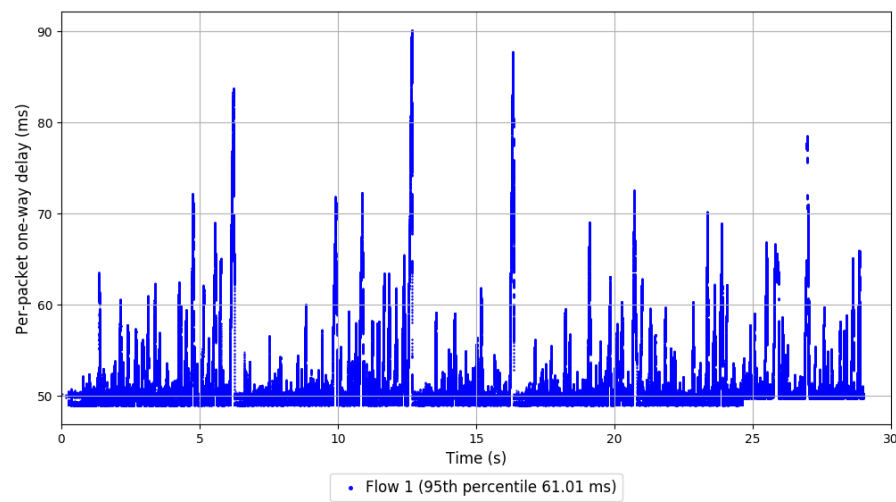
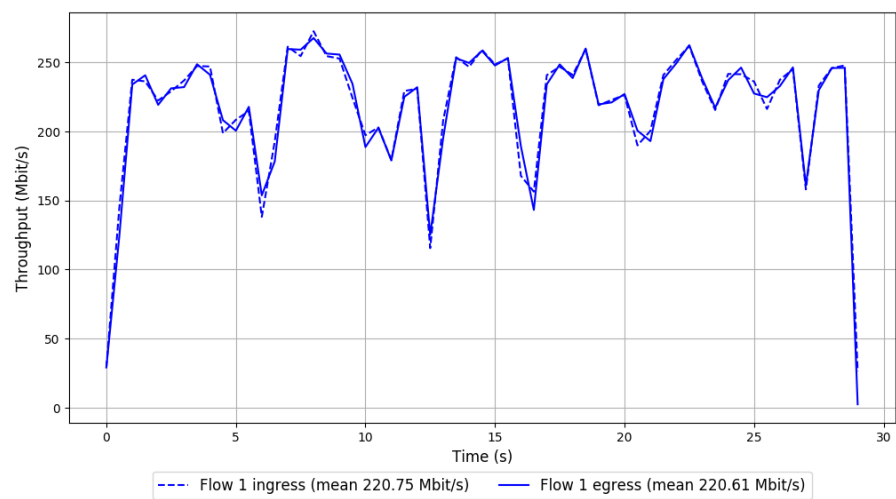
-- Flow 1:

Average throughput: 220.61 Mbit/s

95th percentile per-packet one-way delay: 61.014 ms

Loss rate: 0.41%

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

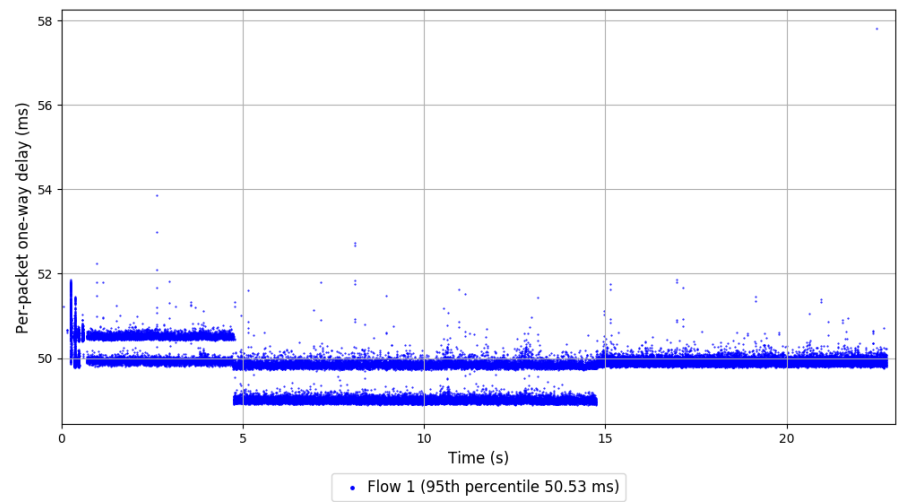
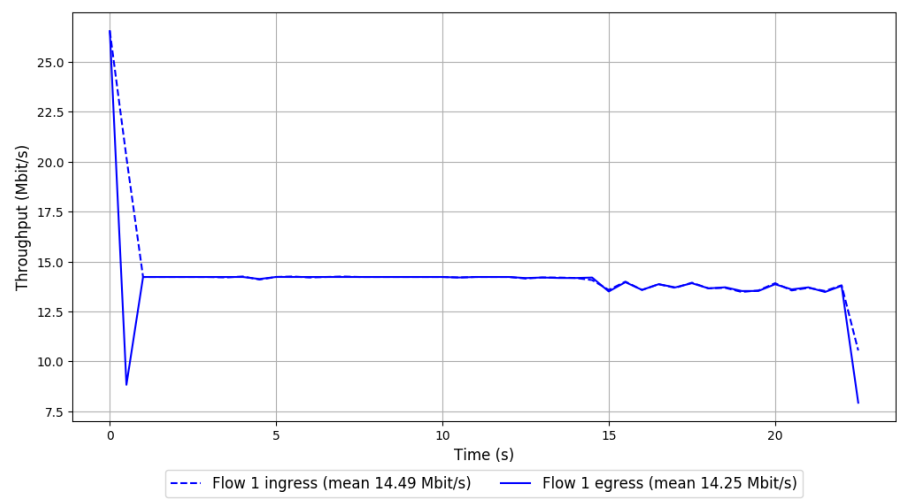


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-30 19:57:43

End at: 2018-01-30 19:58:13

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-30 17:45:11

End at: 2018-01-30 17:45:41

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.66 Mbit/s

95th percentile per-packet one-way delay: 52.517 ms

Loss rate: 0.17%

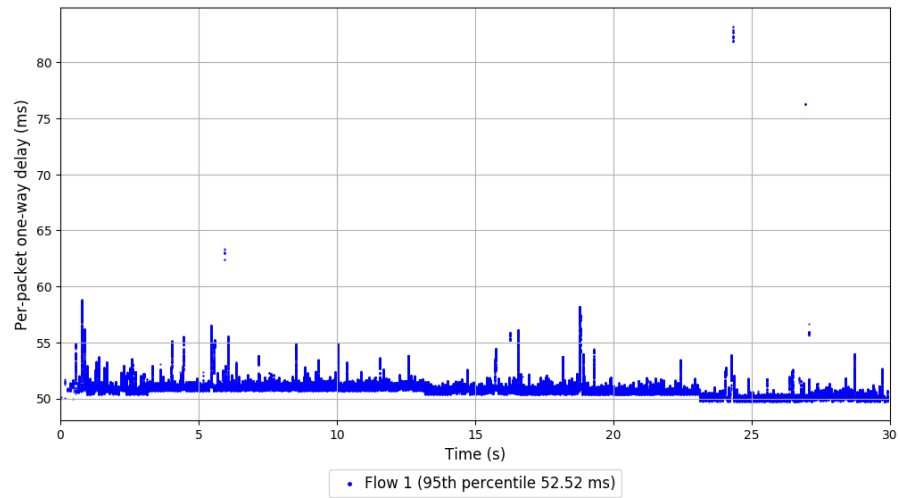
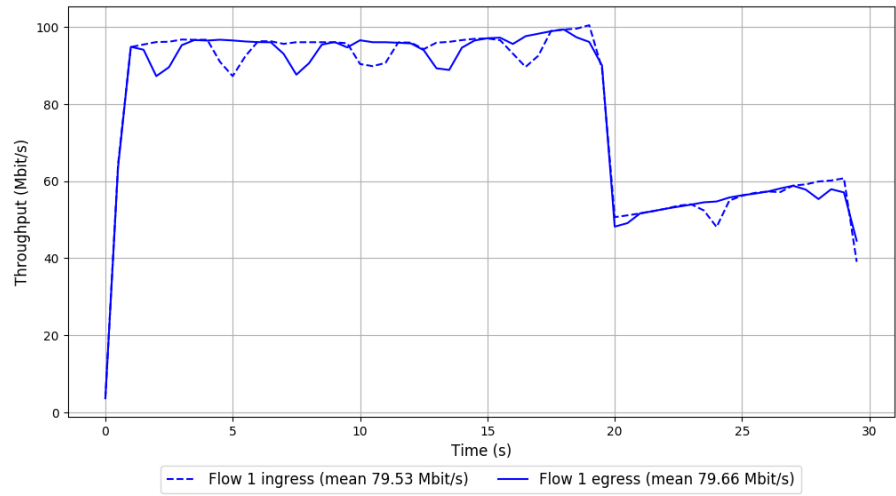
-- Flow 1:

Average throughput: 79.66 Mbit/s

95th percentile per-packet one-way delay: 52.517 ms

Loss rate: 0.17%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-30 17:59:07

End at: 2018-01-30 17:59:37

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 59.199 ms

Loss rate: 1.27%

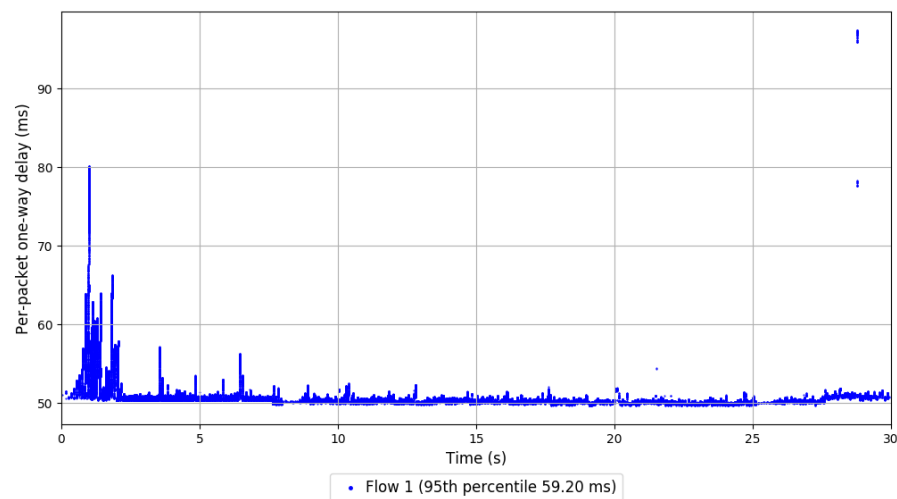
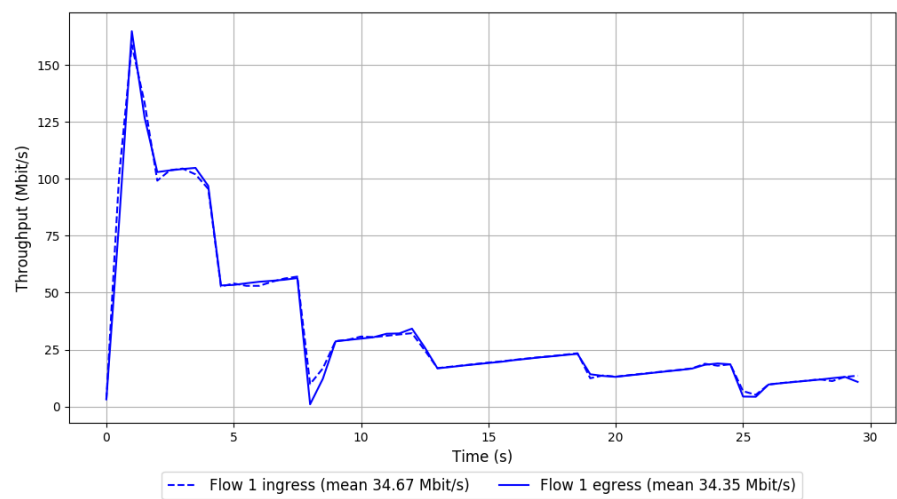
-- Flow 1:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 59.199 ms

Loss rate: 1.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-30 18:13:00

End at: 2018-01-30 18:13:30

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.11 Mbit/s

95th percentile per-packet one-way delay: 51.657 ms

Loss rate: 0.12%

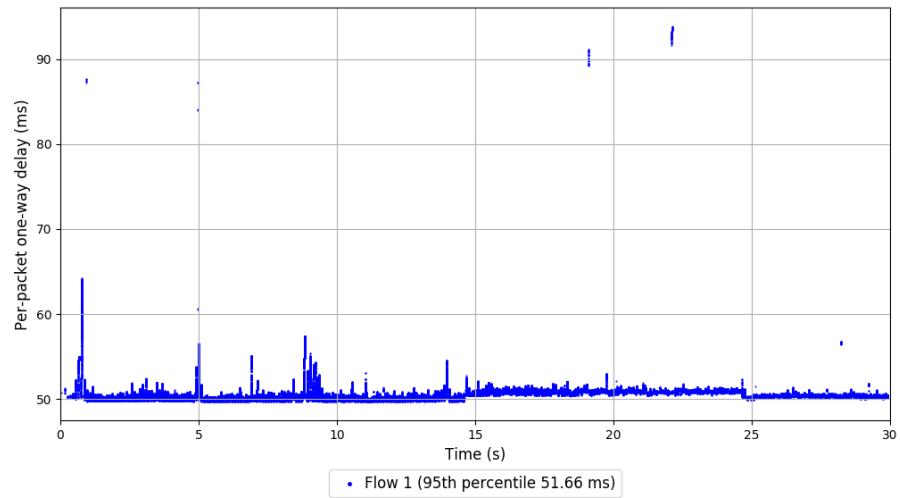
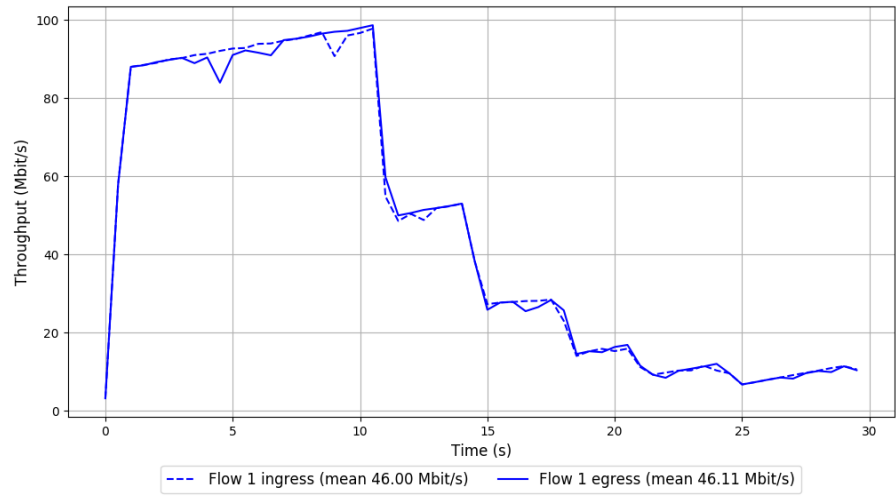
-- Flow 1:

Average throughput: 46.11 Mbit/s

95th percentile per-packet one-way delay: 51.657 ms

Loss rate: 0.12%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-30 18:26:57

End at: 2018-01-30 18:27:27

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 50.535 ms

Loss rate: 1.20%

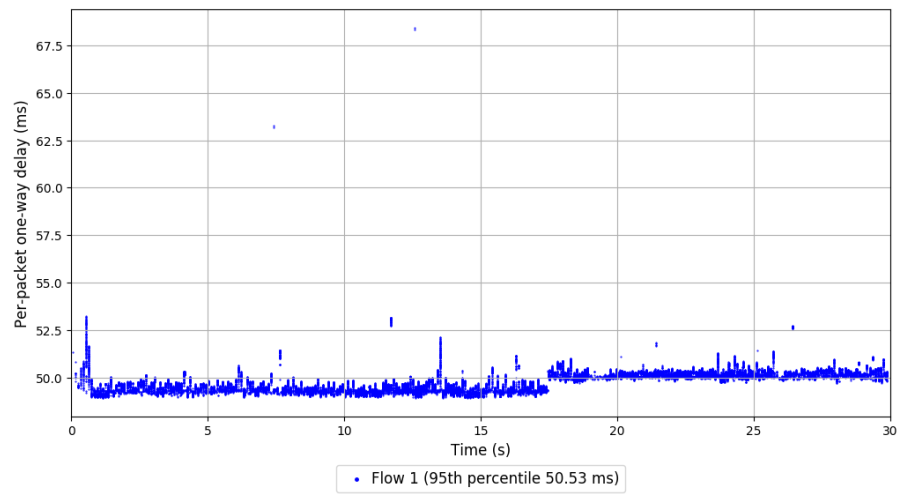
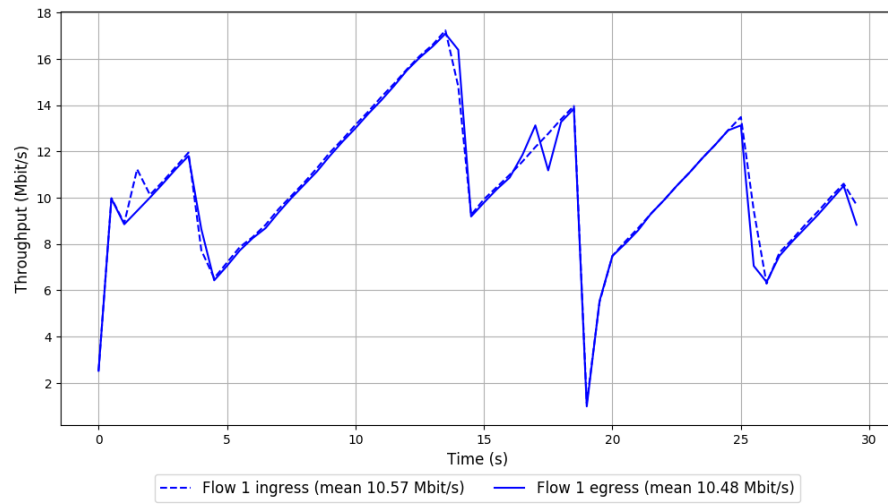
-- Flow 1:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 50.535 ms

Loss rate: 1.20%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-30 18:40:51

End at: 2018-01-30 18:41:21

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 52.724 ms

Loss rate: 0.39%

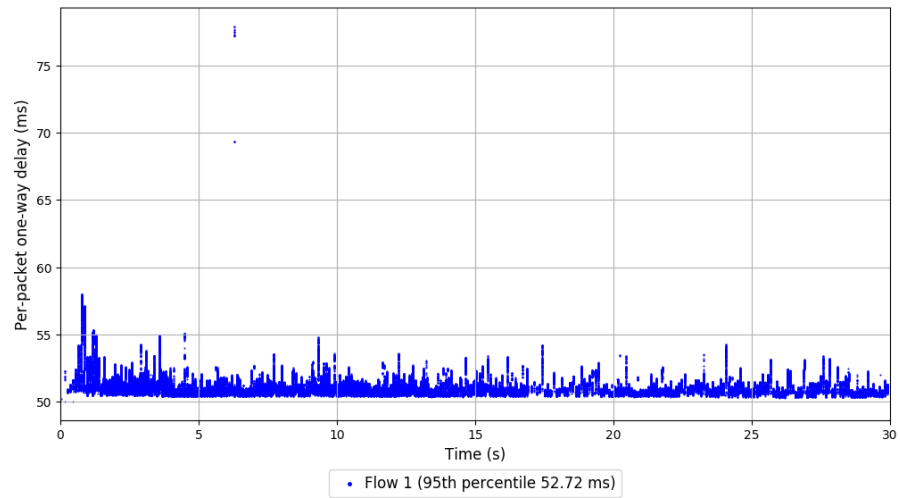
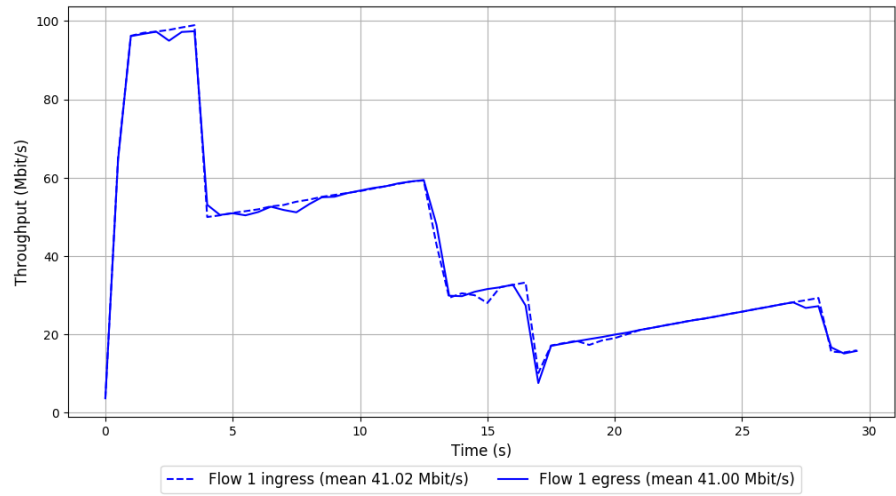
-- Flow 1:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 52.724 ms

Loss rate: 0.39%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-30 18:54:45

End at: 2018-01-30 18:55:15

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 52.736 ms

Loss rate: 0.19%

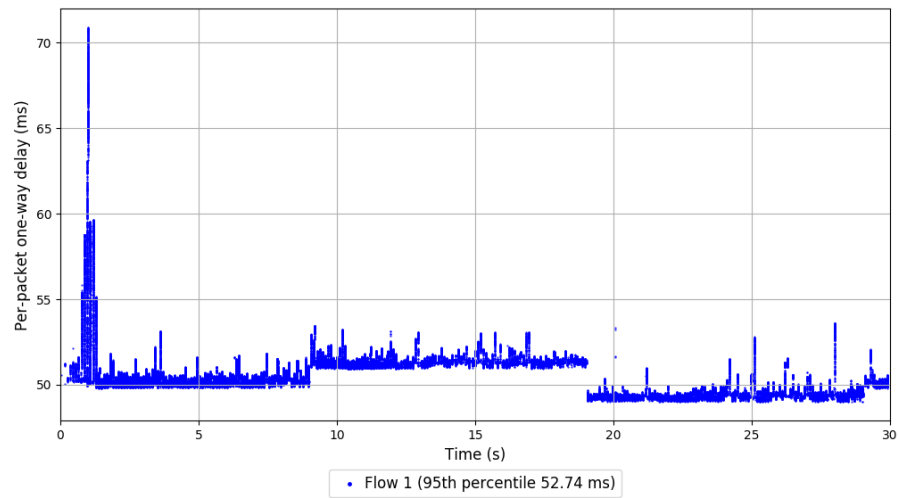
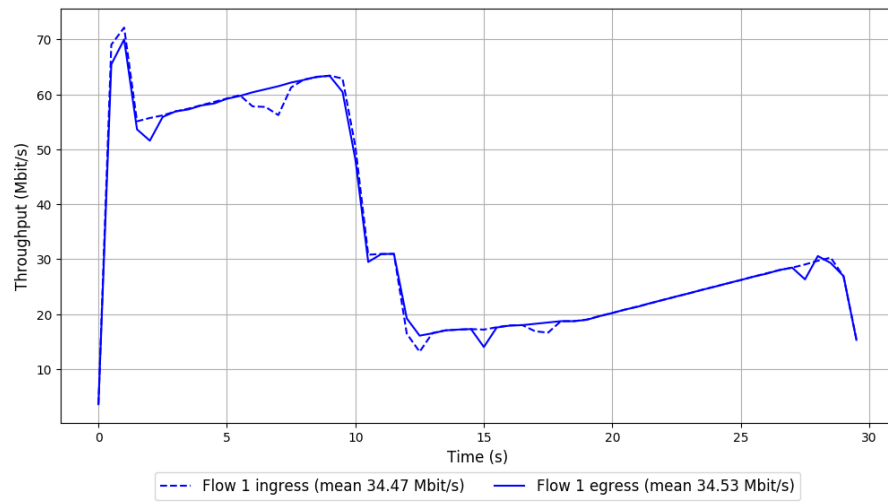
-- Flow 1:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 52.736 ms

Loss rate: 0.19%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-30 19:09:04

End at: 2018-01-30 19:09:34

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 51.511 ms

Loss rate: 1.07%

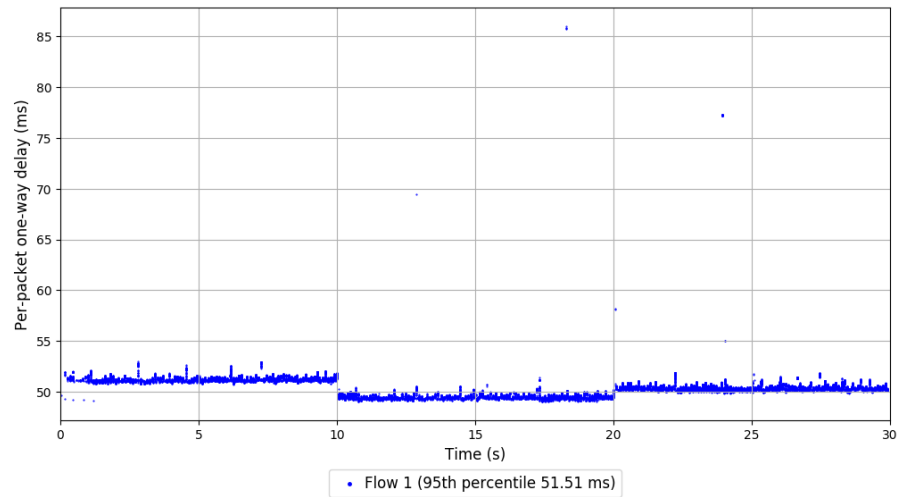
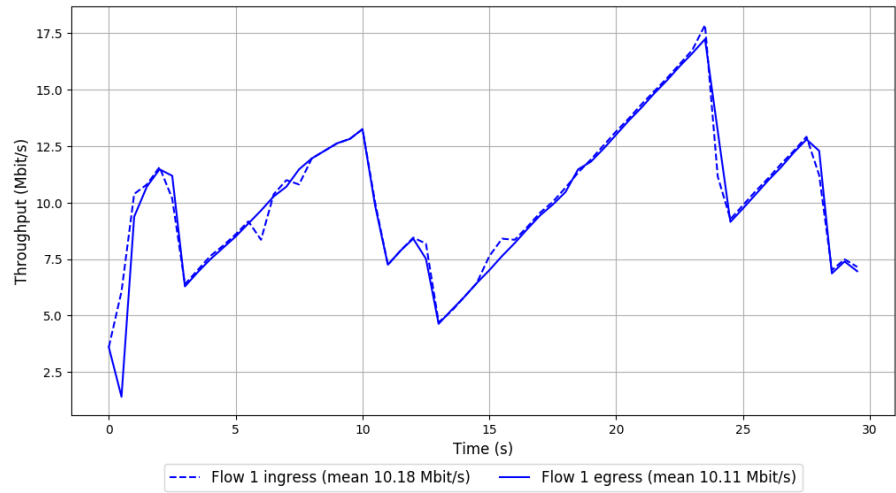
-- Flow 1:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 51.511 ms

Loss rate: 1.07%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-30 19:23:00

End at: 2018-01-30 19:23:30

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.55 Mbit/s

95th percentile per-packet one-way delay: 52.041 ms

Loss rate: 0.63%

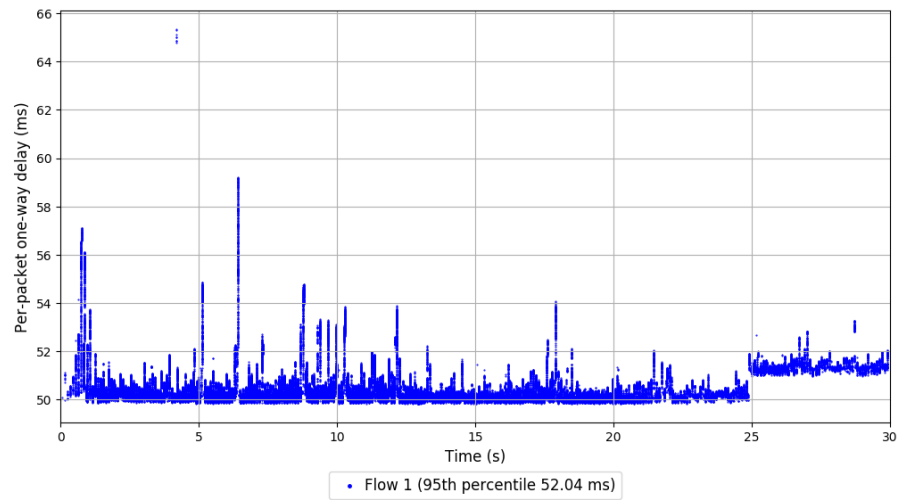
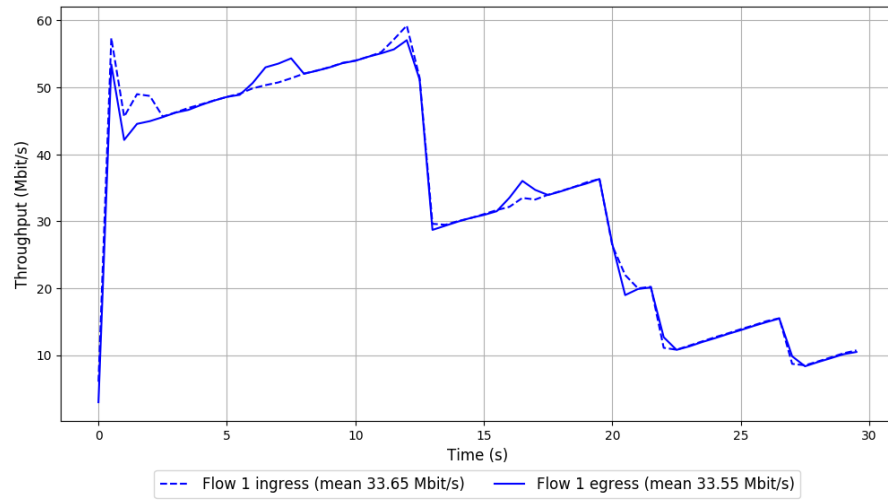
-- Flow 1:

Average throughput: 33.55 Mbit/s

95th percentile per-packet one-way delay: 52.041 ms

Loss rate: 0.63%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-30 19:36:51

End at: 2018-01-30 19:37:21

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 52.455 ms

Loss rate: 0.47%

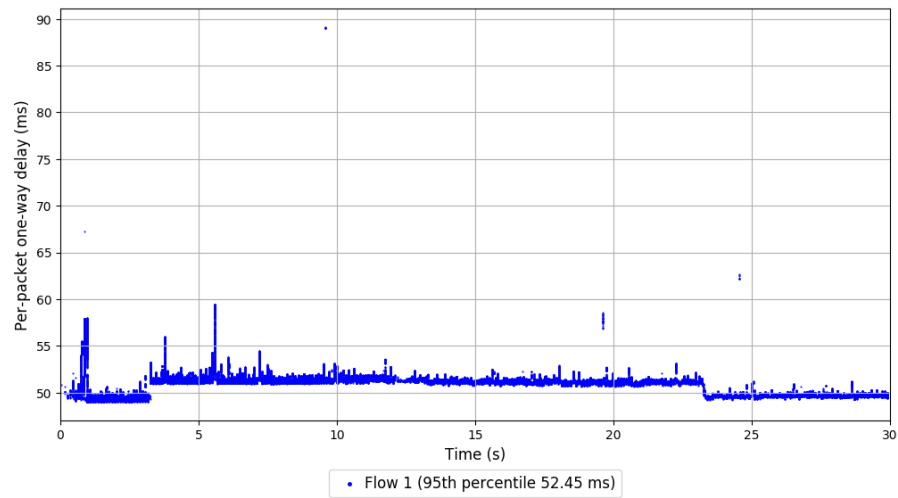
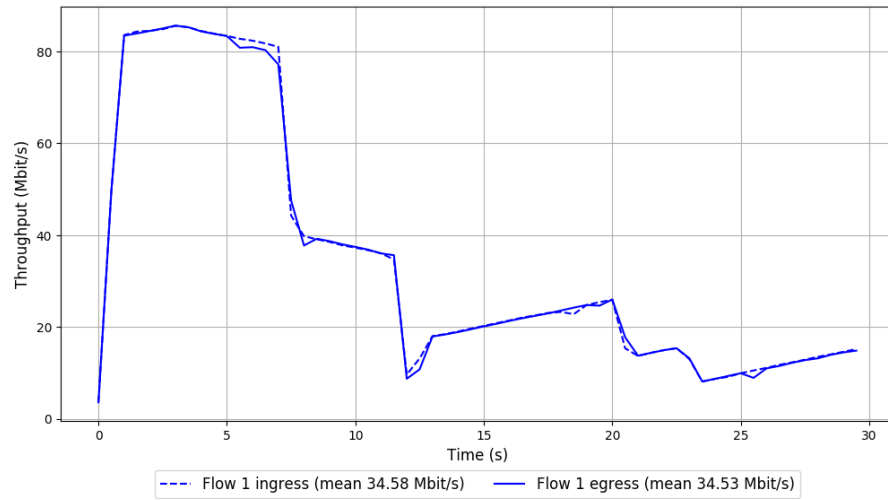
-- Flow 1:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 52.455 ms

Loss rate: 0.47%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-30 19:50:58

End at: 2018-01-30 19:51:28

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.74 Mbit/s

95th percentile per-packet one-way delay: 60.219 ms

Loss rate: 0.19%

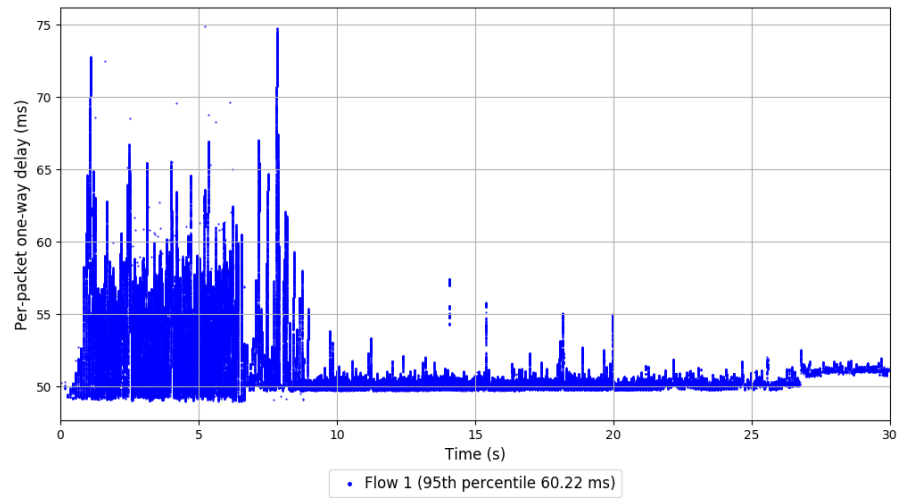
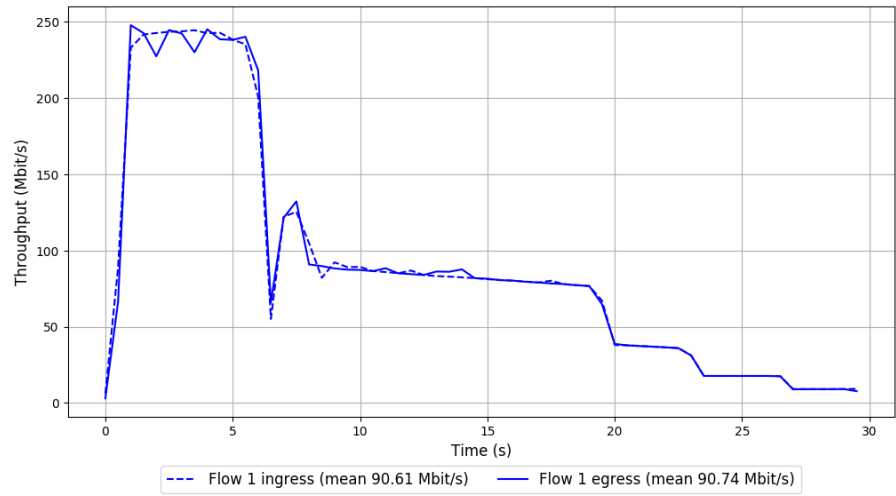
-- Flow 1:

Average throughput: 90.74 Mbit/s

95th percentile per-packet one-way delay: 60.219 ms

Loss rate: 0.19%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-30 17:54:43

End at: 2018-01-30 17:55:13

Below is generated by plot.py at 2018-01-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.47 Mbit/s

95th percentile per-packet one-way delay: 231.347 ms

Loss rate: 3.42%

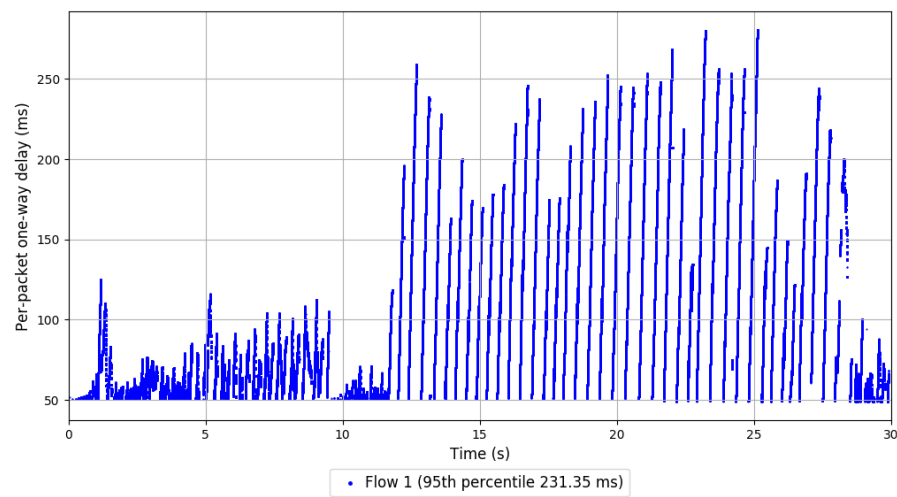
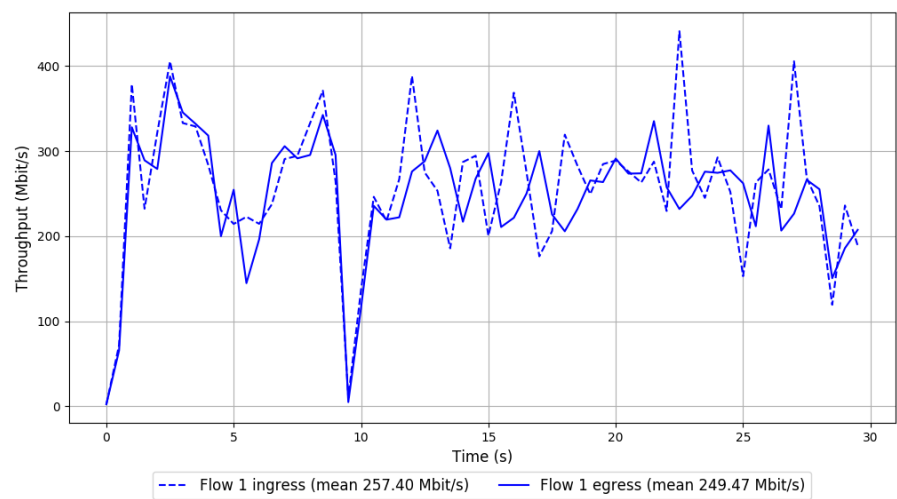
-- Flow 1:

Average throughput: 249.47 Mbit/s

95th percentile per-packet one-way delay: 231.347 ms

Loss rate: 3.42%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-30 18:08:35

End at: 2018-01-30 18:09:05

Below is generated by plot.py at 2018-01-30 23:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.24 Mbit/s

95th percentile per-packet one-way delay: 93.101 ms

Loss rate: 1.76%

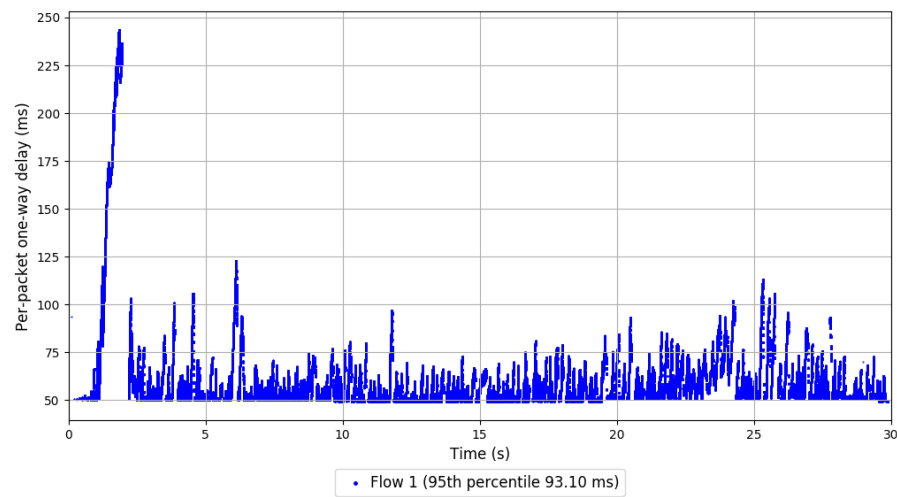
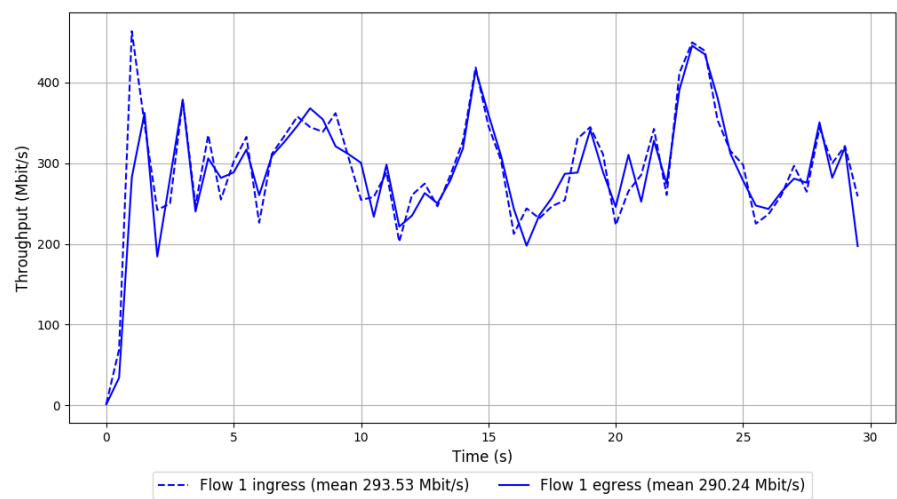
-- Flow 1:

Average throughput: 290.24 Mbit/s

95th percentile per-packet one-way delay: 93.101 ms

Loss rate: 1.76%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-30 18:22:31

End at: 2018-01-30 18:23:01

Below is generated by plot.py at 2018-01-30 23:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.14 Mbit/s

95th percentile per-packet one-way delay: 92.574 ms

Loss rate: 1.98%

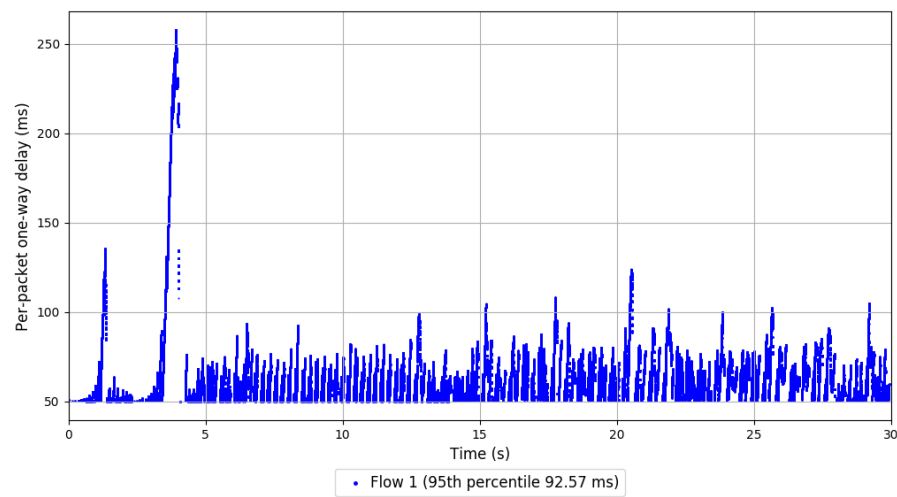
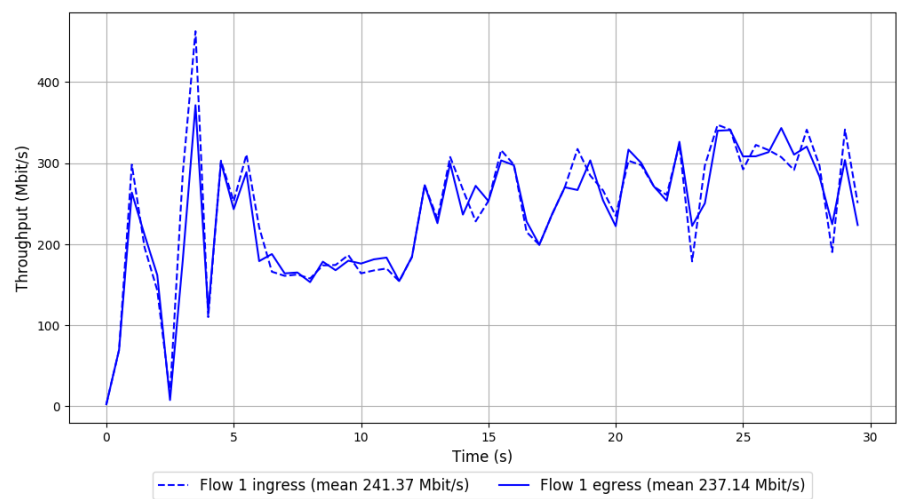
-- Flow 1:

Average throughput: 237.14 Mbit/s

95th percentile per-packet one-way delay: 92.574 ms

Loss rate: 1.98%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-30 18:36:25

End at: 2018-01-30 18:36:55

Below is generated by plot.py at 2018-01-30 23:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.14 Mbit/s

95th percentile per-packet one-way delay: 85.813 ms

Loss rate: 0.68%

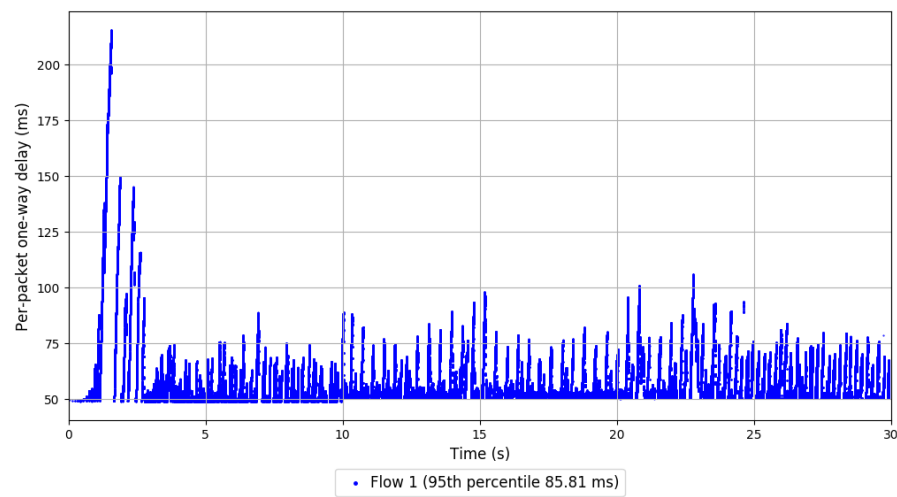
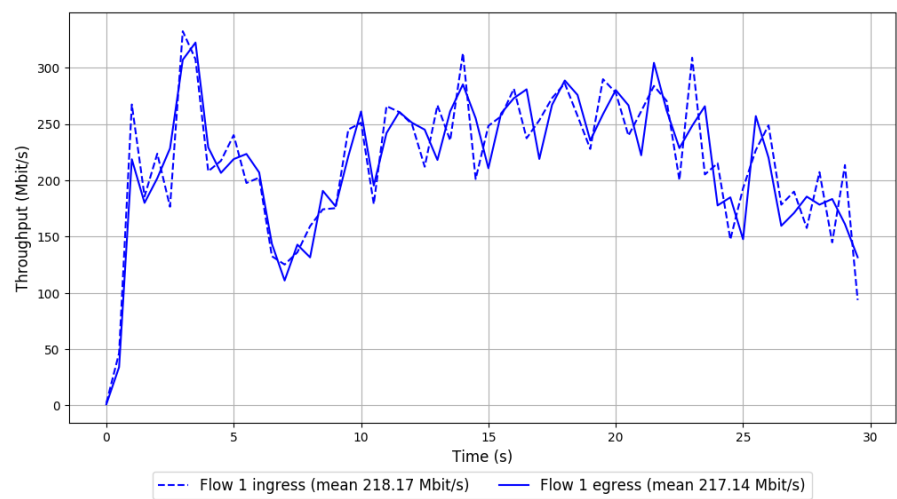
-- Flow 1:

Average throughput: 217.14 Mbit/s

95th percentile per-packet one-way delay: 85.813 ms

Loss rate: 0.68%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-30 18:50:28

End at: 2018-01-30 18:50:58

Below is generated by plot.py at 2018-01-30 23:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.01 Mbit/s

95th percentile per-packet one-way delay: 203.331 ms

Loss rate: 1.98%

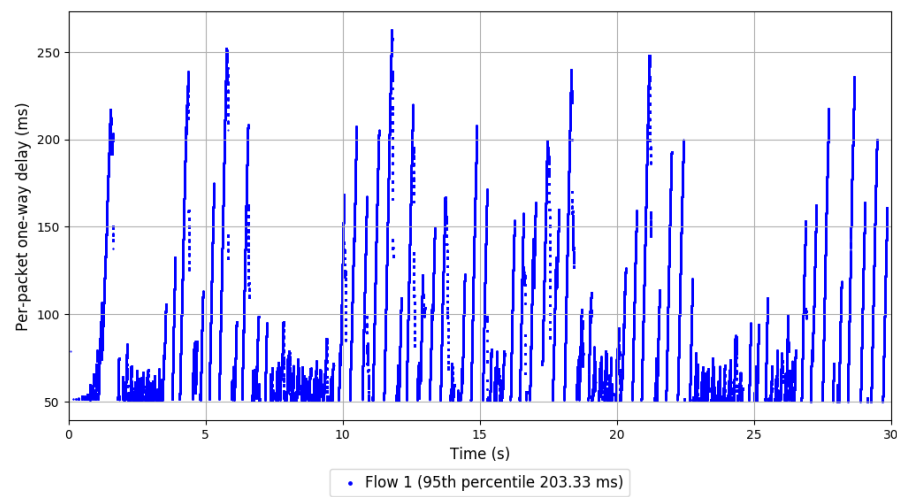
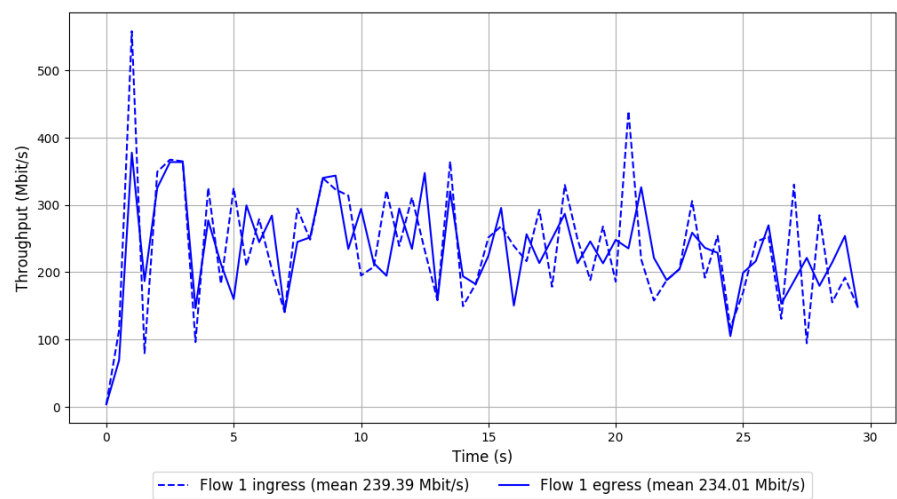
-- Flow 1:

Average throughput: 234.01 Mbit/s

95th percentile per-packet one-way delay: 203.331 ms

Loss rate: 1.98%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-30 19:04:20

End at: 2018-01-30 19:04:50

Below is generated by plot.py at 2018-01-30 23:01:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.55 Mbit/s

95th percentile per-packet one-way delay: 97.769 ms

Loss rate: 2.37%

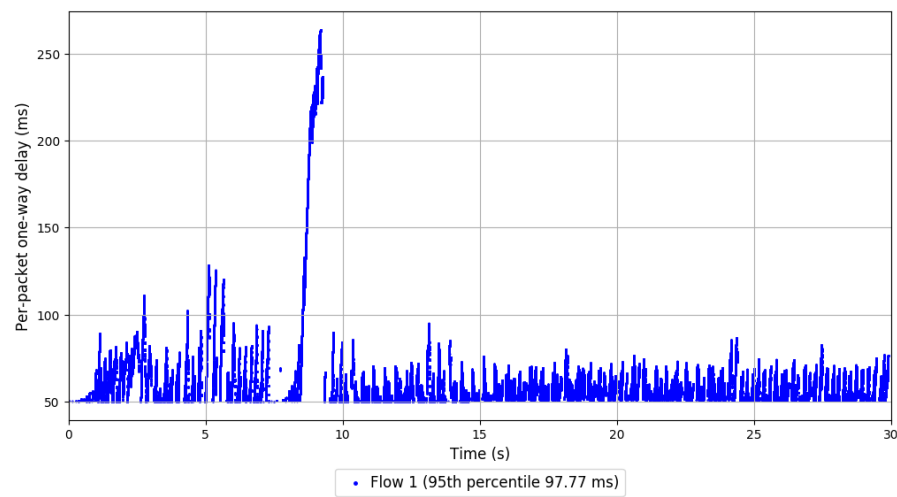
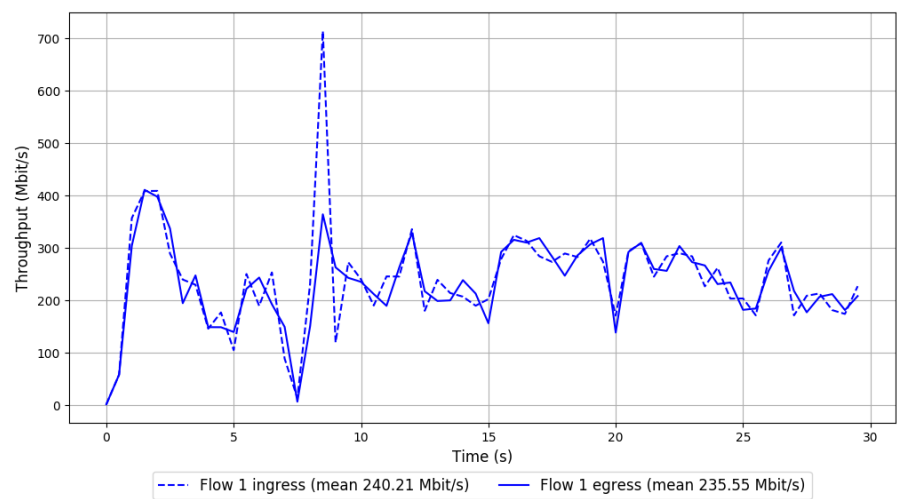
-- Flow 1:

Average throughput: 235.55 Mbit/s

95th percentile per-packet one-way delay: 97.769 ms

Loss rate: 2.37%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-30 19:18:32

End at: 2018-01-30 19:19:02

Below is generated by plot.py at 2018-01-30 23:03:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.93 Mbit/s

95th percentile per-packet one-way delay: 92.252 ms

Loss rate: 2.26%

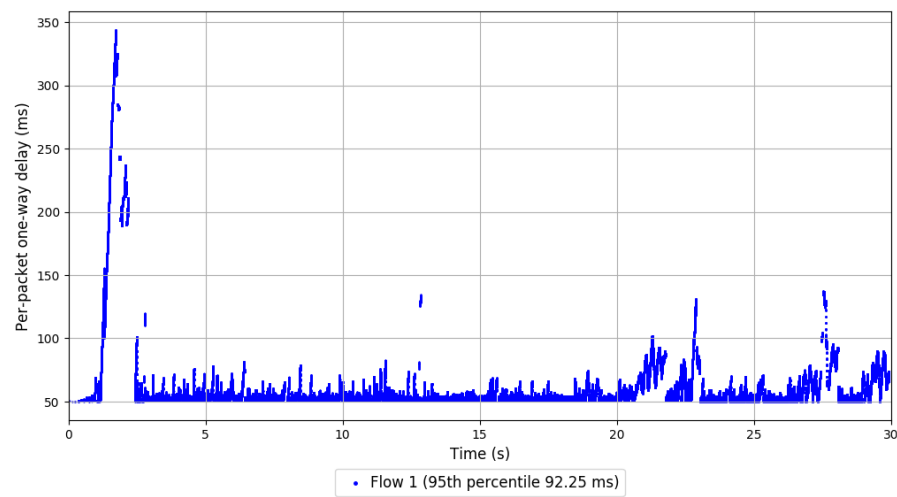
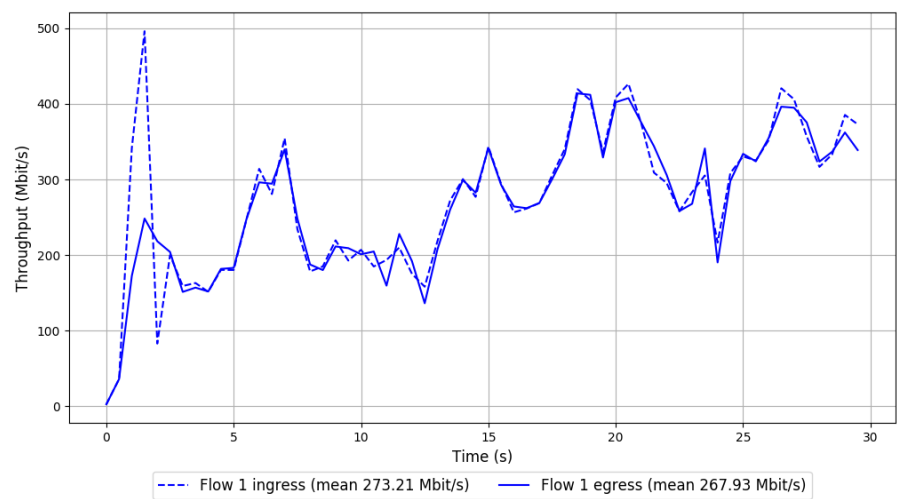
-- Flow 1:

Average throughput: 267.93 Mbit/s

95th percentile per-packet one-way delay: 92.252 ms

Loss rate: 2.26%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-30 19:32:28

End at: 2018-01-30 19:32:58

Below is generated by plot.py at 2018-01-30 23:04:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.13 Mbit/s

95th percentile per-packet one-way delay: 117.703 ms

Loss rate: 2.97%

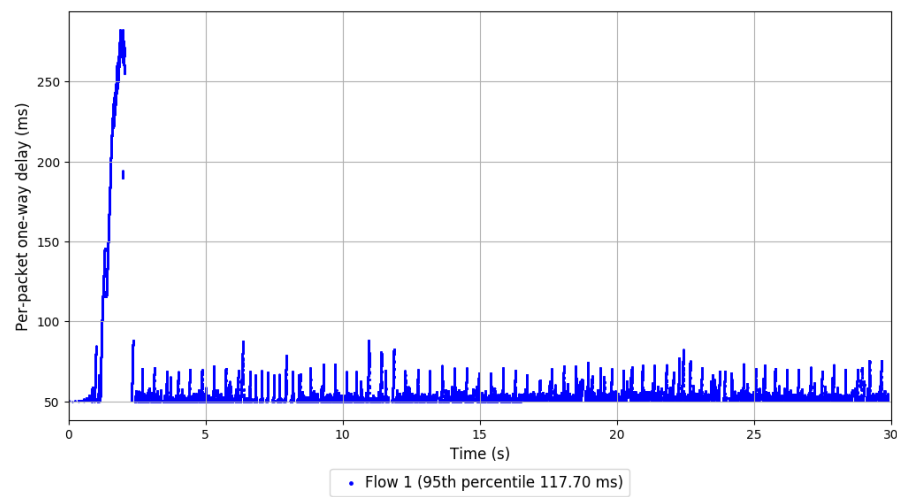
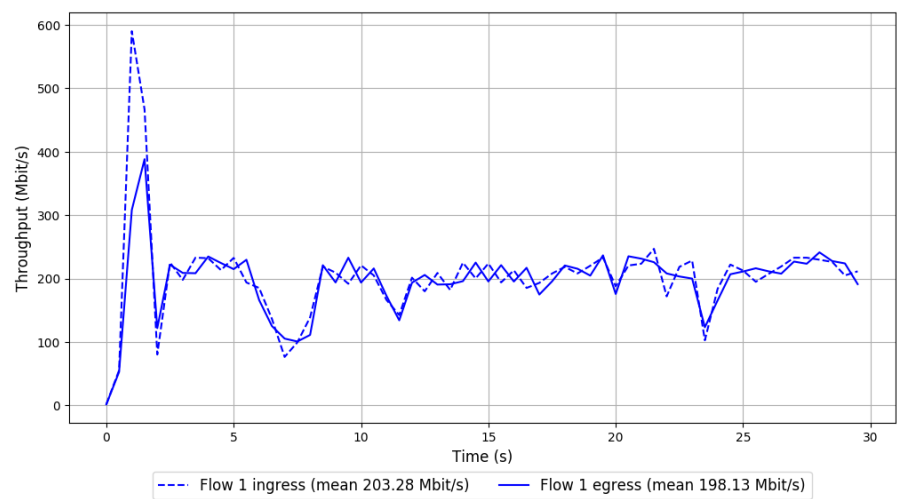
-- Flow 1:

Average throughput: 198.13 Mbit/s

95th percentile per-packet one-way delay: 117.703 ms

Loss rate: 2.97%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-30 19:46:30

End at: 2018-01-30 19:47:00

Below is generated by plot.py at 2018-01-30 23:05:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.47 Mbit/s

95th percentile per-packet one-way delay: 108.210 ms

Loss rate: 2.61%

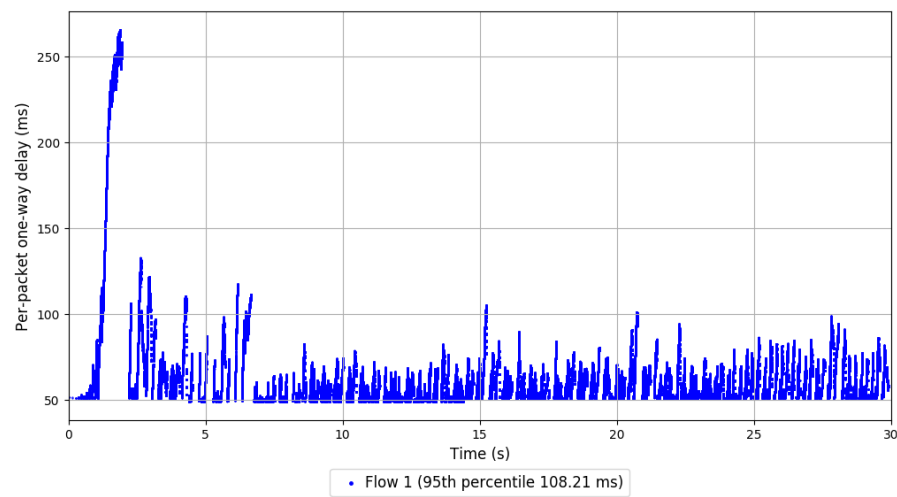
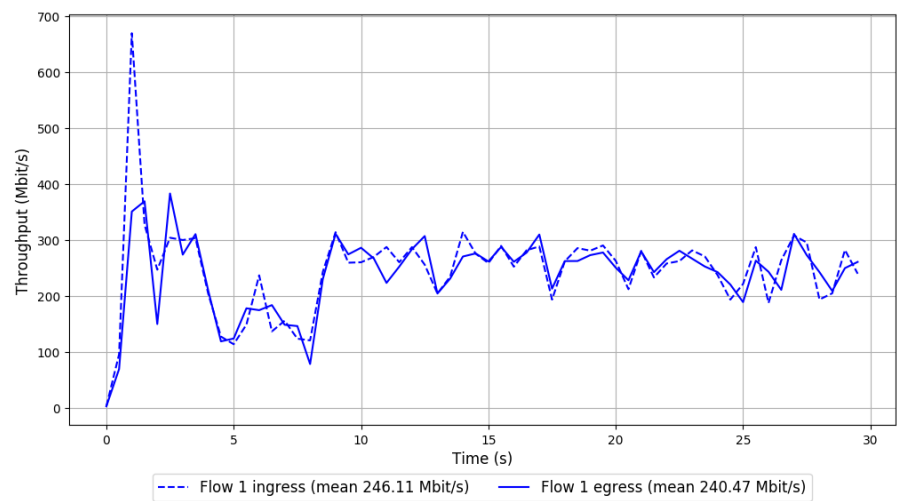
-- Flow 1:

Average throughput: 240.47 Mbit/s

95th percentile per-packet one-way delay: 108.210 ms

Loss rate: 2.61%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-30 20:00:15

End at: 2018-01-30 20:00:45

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.71 Mbit/s

95th percentile per-packet one-way delay: 144.214 ms

Loss rate: 2.83%

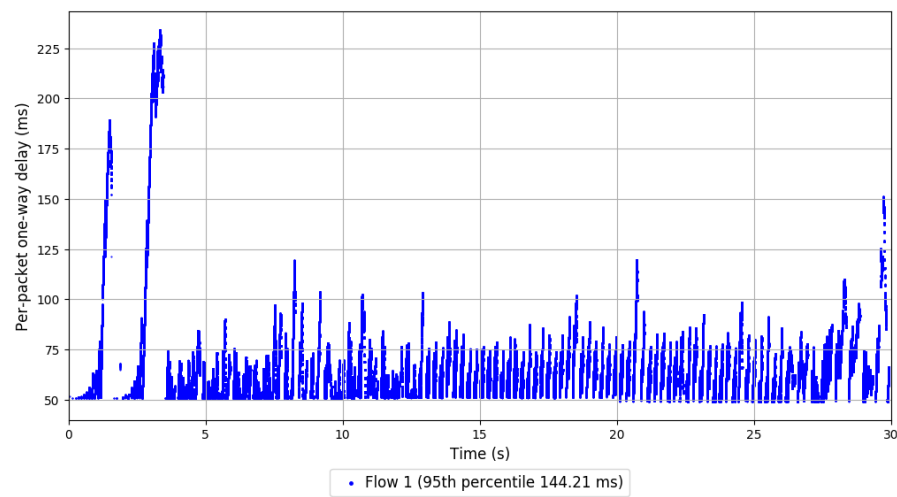
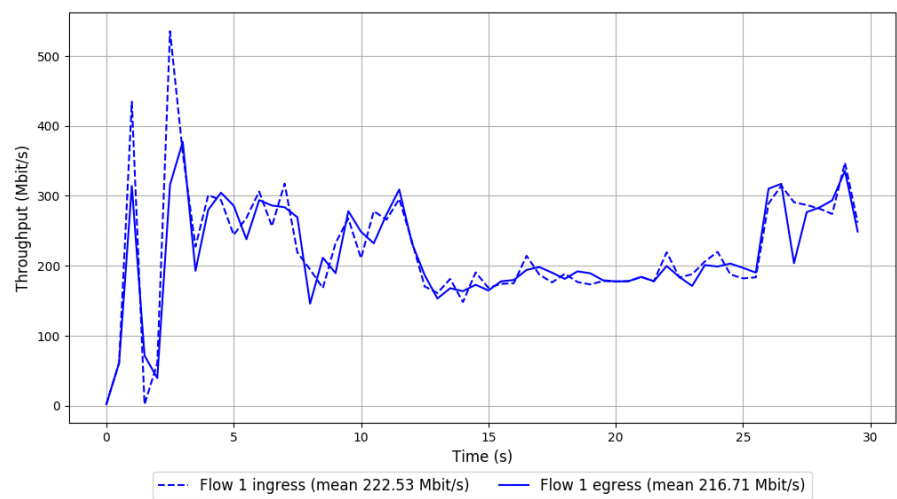
-- Flow 1:

Average throughput: 216.71 Mbit/s

95th percentile per-packet one-way delay: 144.214 ms

Loss rate: 2.83%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-30 17:45:52

End at: 2018-01-30 17:46:22

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.19%

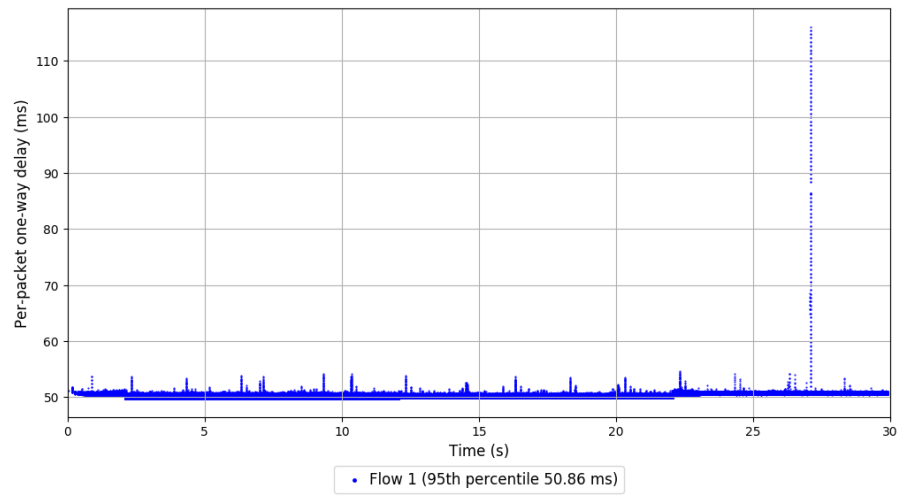
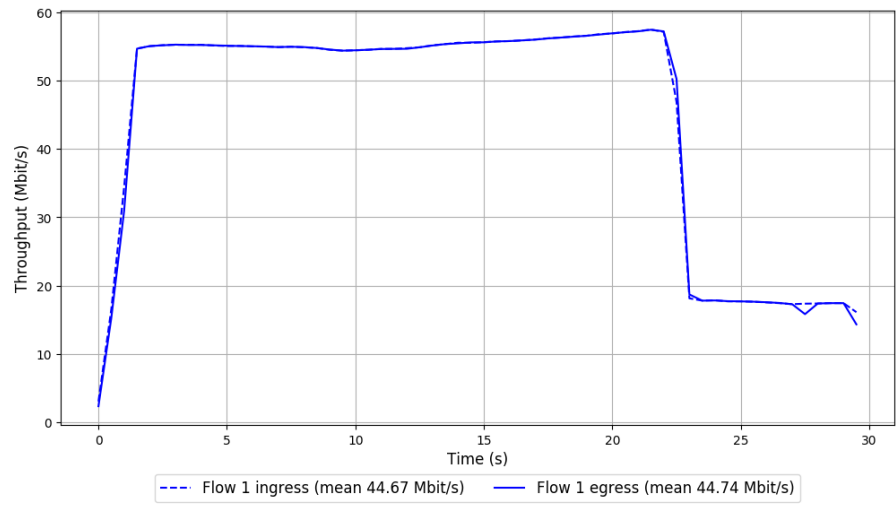
-- Flow 1:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.19%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-30 17:59:46

End at: 2018-01-30 18:00:16

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.06 Mbit/s

95th percentile per-packet one-way delay: 51.061 ms

Loss rate: 0.46%

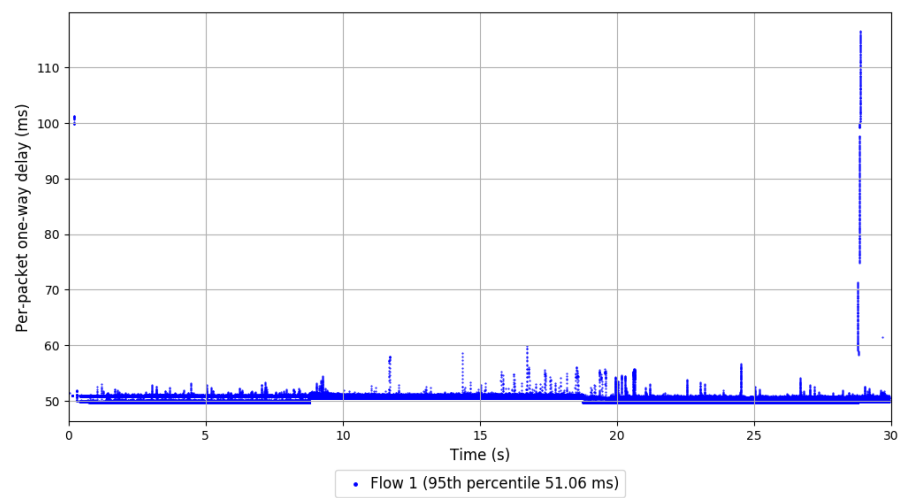
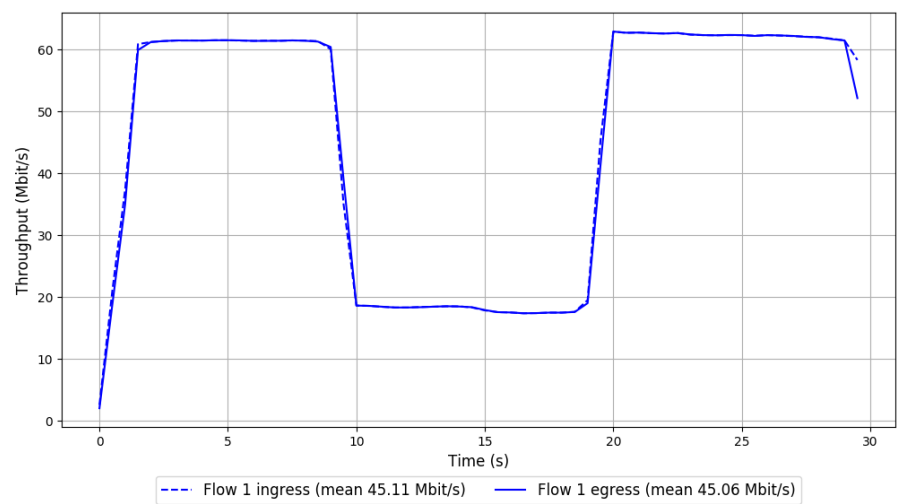
-- Flow 1:

Average throughput: 45.06 Mbit/s

95th percentile per-packet one-way delay: 51.061 ms

Loss rate: 0.46%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-30 18:13:39

End at: 2018-01-30 18:14:09

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.39%

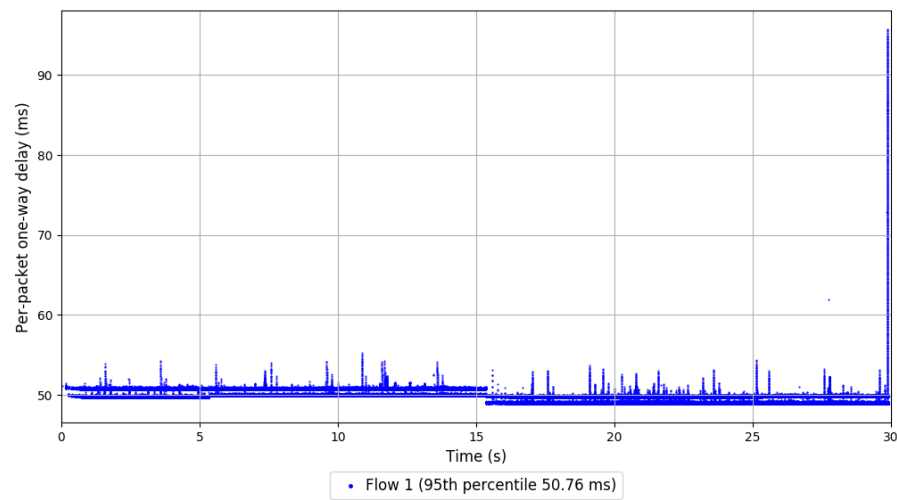
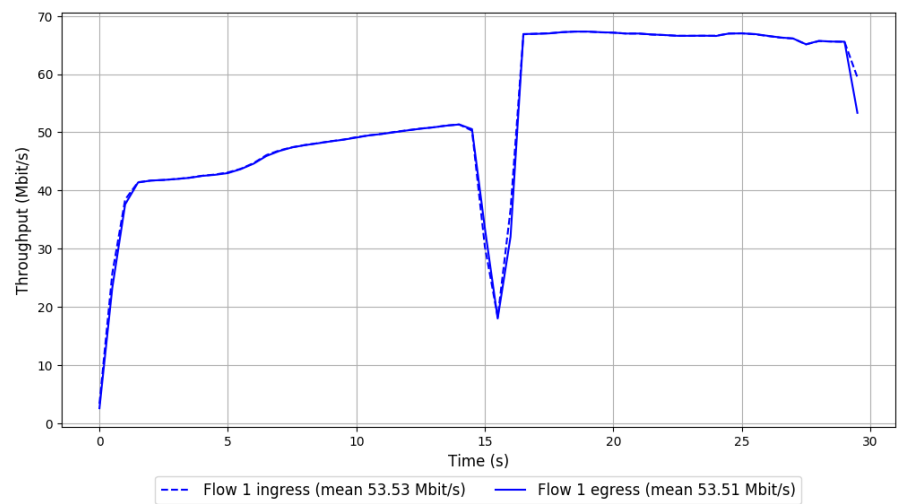
-- Flow 1:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.39%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-30 18:27:34

End at: 2018-01-30 18:28:05

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.07 Mbit/s

95th percentile per-packet one-way delay: 50.829 ms

Loss rate: 0.12%

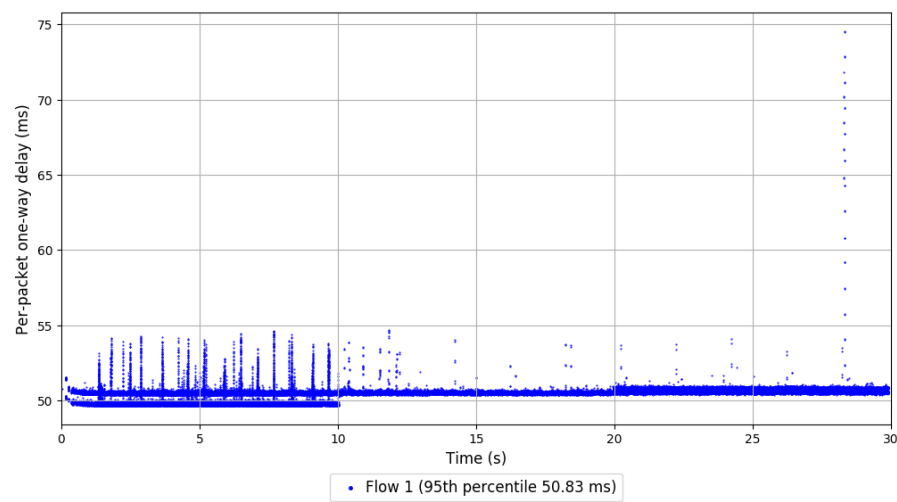
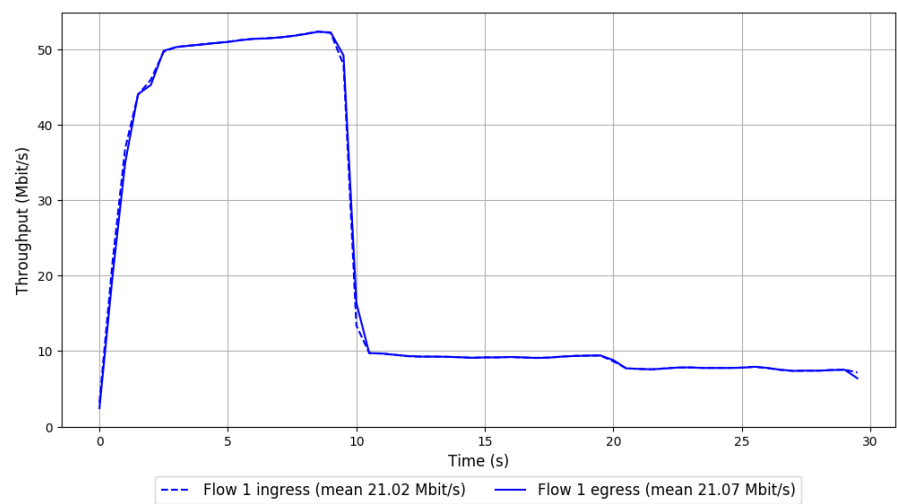
-- Flow 1:

Average throughput: 21.07 Mbit/s

95th percentile per-packet one-way delay: 50.829 ms

Loss rate: 0.12%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-30 18:41:30

End at: 2018-01-30 18:42:00

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.24%

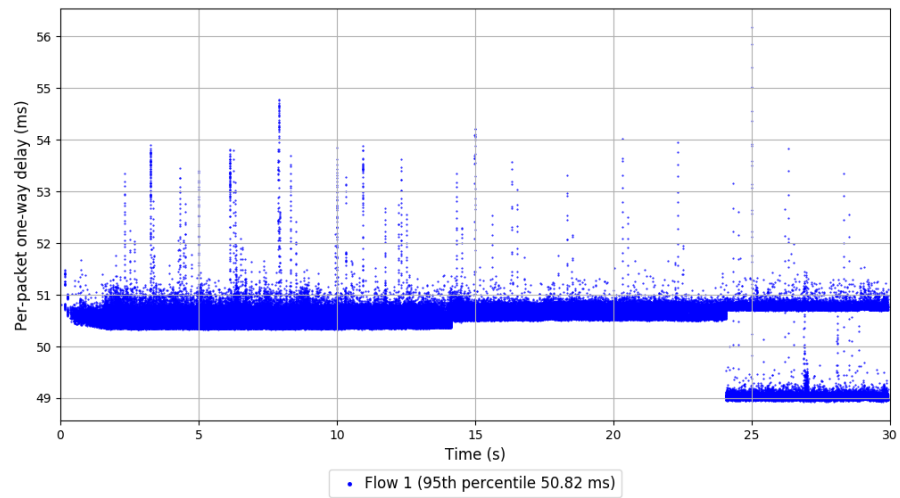
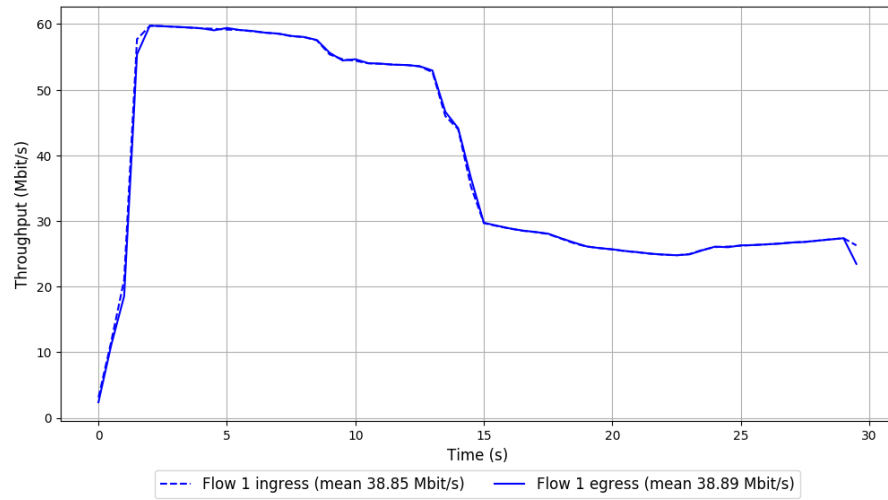
-- Flow 1:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.24%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-30 18:55:24

End at: 2018-01-30 18:55:54

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.14%

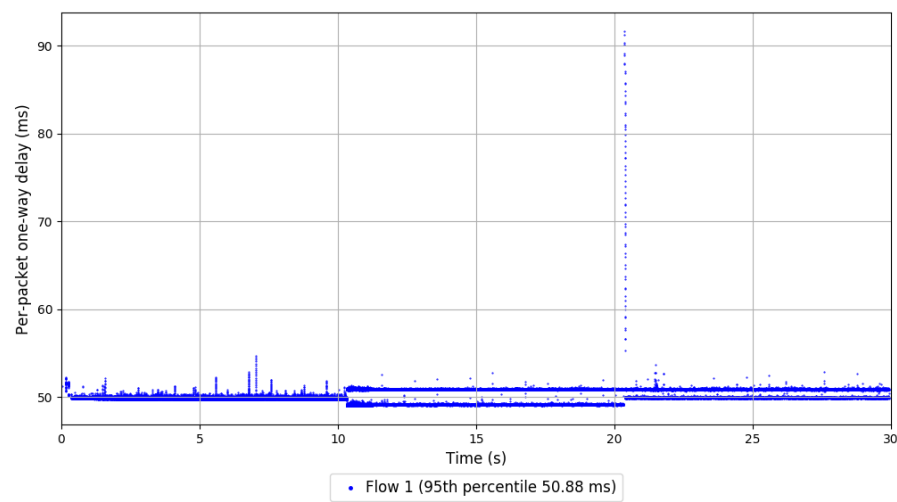
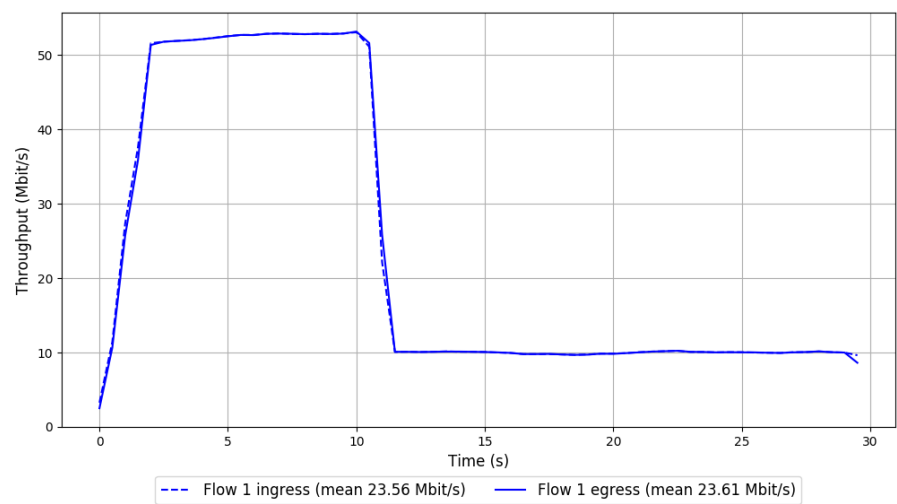
-- Flow 1:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.14%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-30 19:09:42

End at: 2018-01-30 19:10:12

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.10%

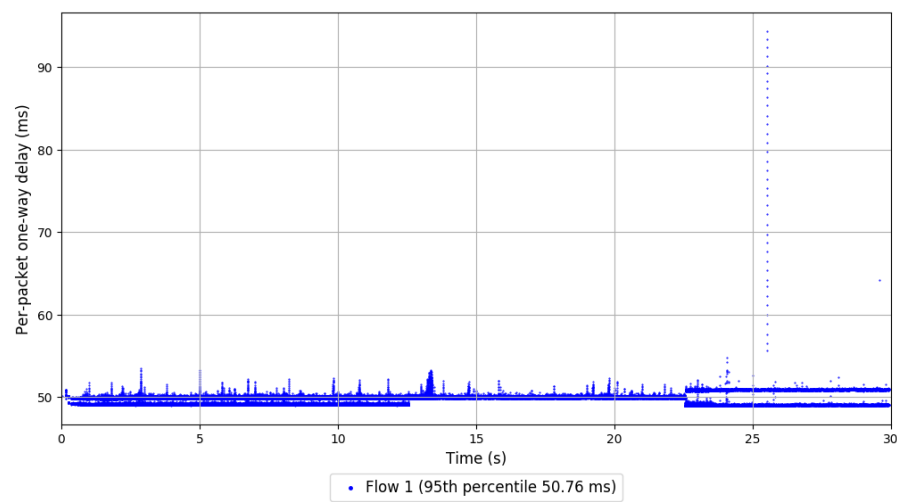
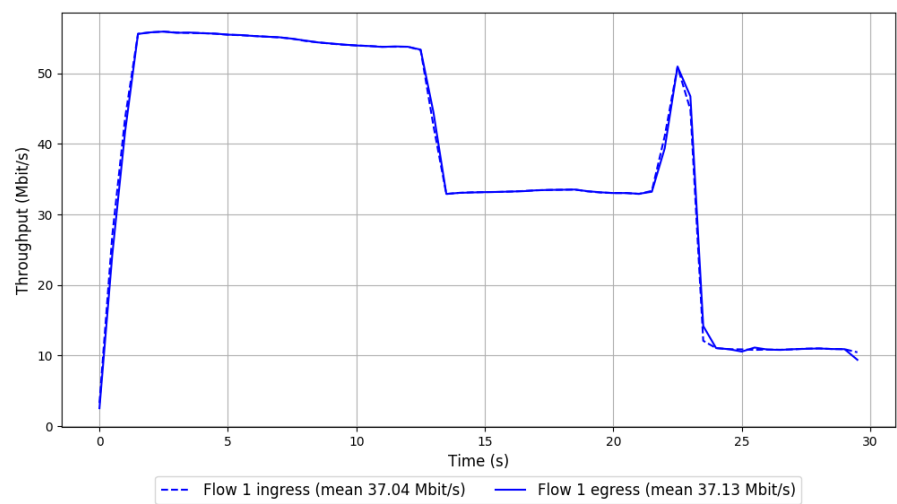
-- Flow 1:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.10%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-30 19:23:38

End at: 2018-01-30 19:24:08

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.50 Mbit/s

95th percentile per-packet one-way delay: 50.938 ms

Loss rate: 0.06%

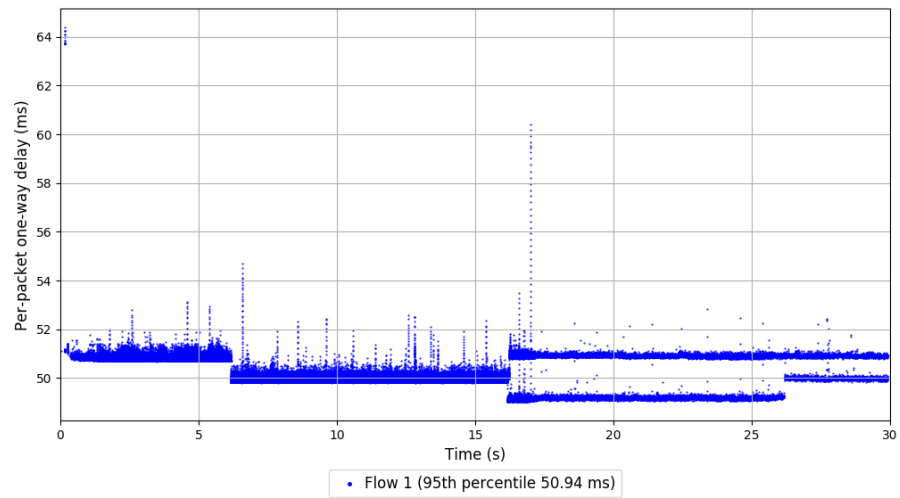
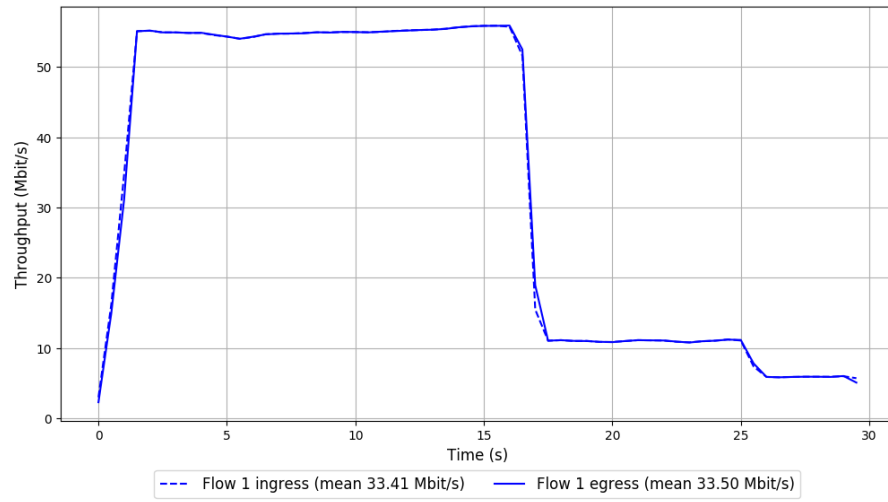
-- Flow 1:

Average throughput: 33.50 Mbit/s

95th percentile per-packet one-way delay: 50.938 ms

Loss rate: 0.06%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-30 19:37:30

End at: 2018-01-30 19:38:00

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.60 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 0.08%

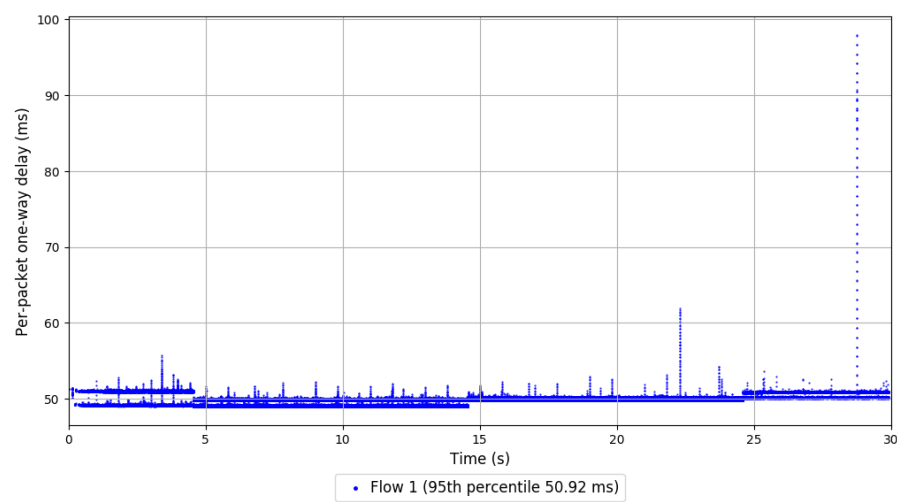
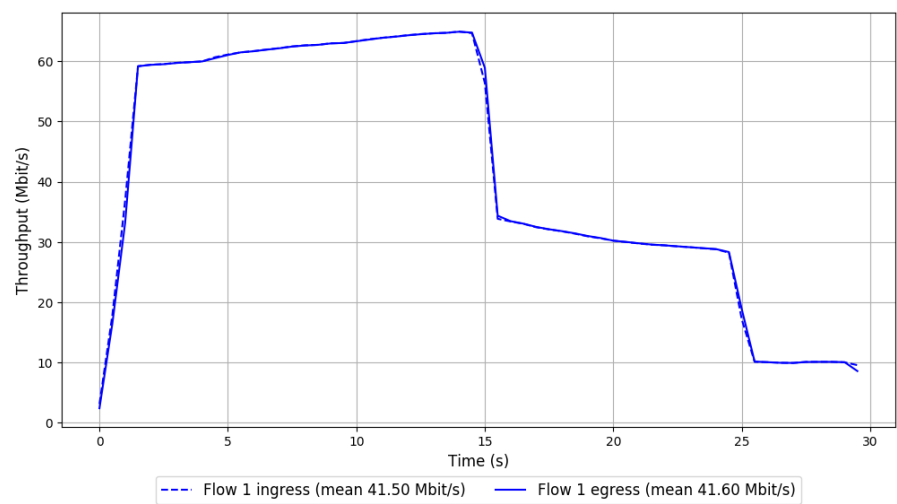
-- Flow 1:

Average throughput: 41.60 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 0.08%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-30 19:51:39

End at: 2018-01-30 19:52:09

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 51.014 ms

Loss rate: 0.19%

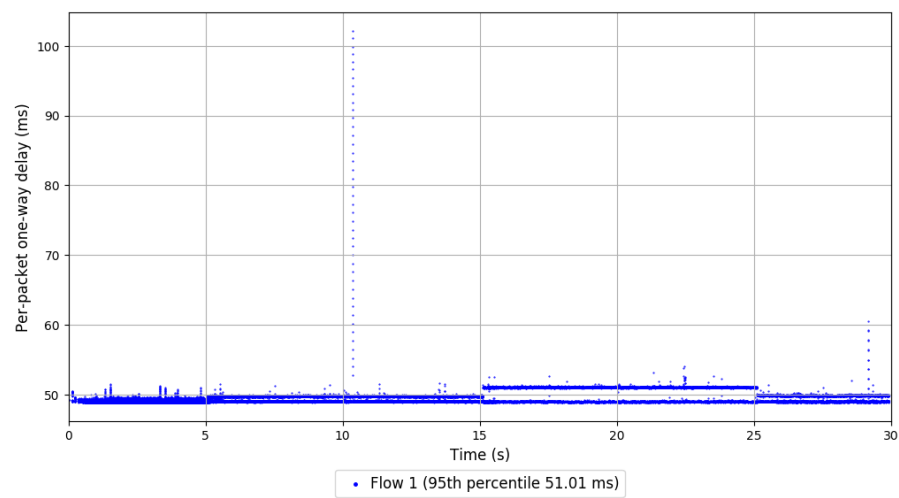
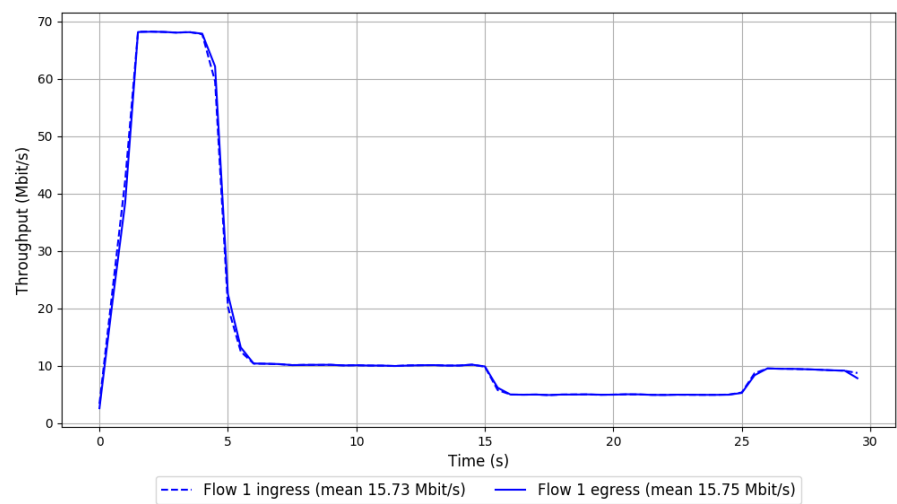
-- Flow 1:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 51.014 ms

Loss rate: 0.19%

Run 10: Report of Copa — Data Link

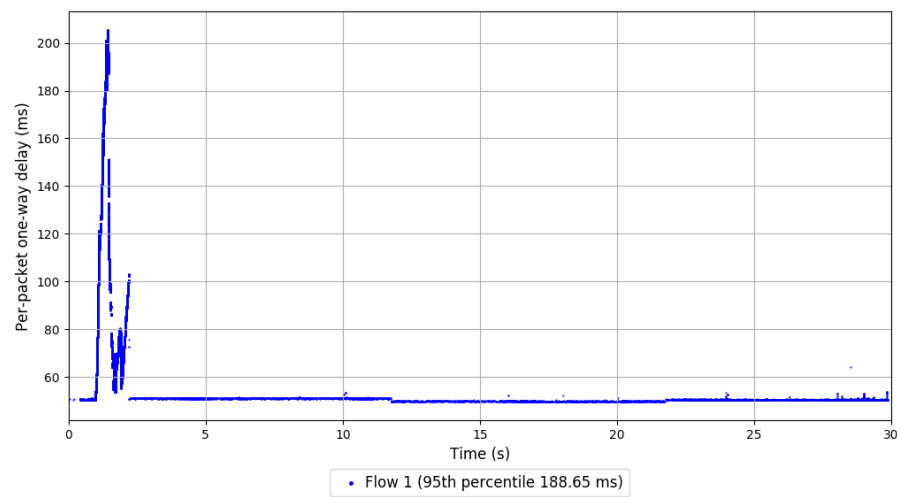
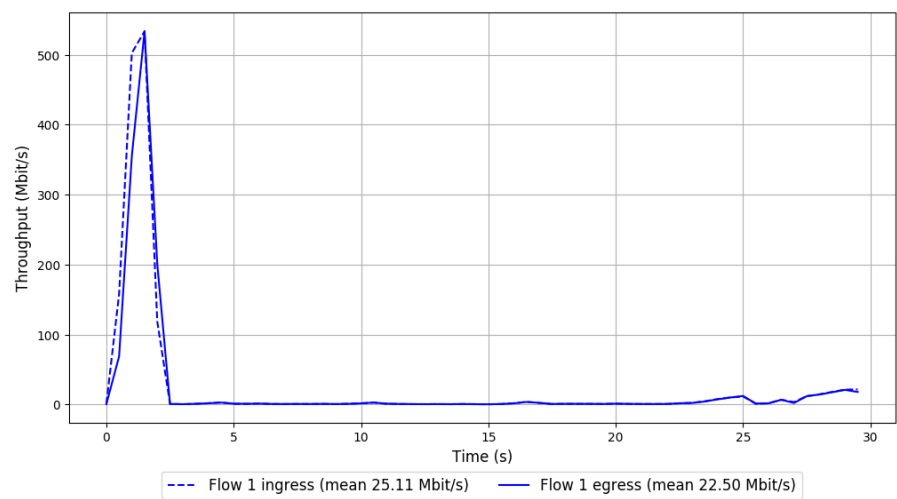


```
Run 1: Statistics of FillP

Start at: 2018-01-30 17:44:33
End at: 2018-01-30 17:45:03

# Below is generated by plot.py at 2018-01-30 23:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.50 Mbit/s
95th percentile per-packet one-way delay: 188.646 ms
Loss rate: 10.70%
-- Flow 1:
Average throughput: 22.50 Mbit/s
95th percentile per-packet one-way delay: 188.646 ms
Loss rate: 10.70%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-30 17:58:28

End at: 2018-01-30 17:58:58

Below is generated by plot.py at 2018-01-30 23:05:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 228.340 ms

Loss rate: 15.37%

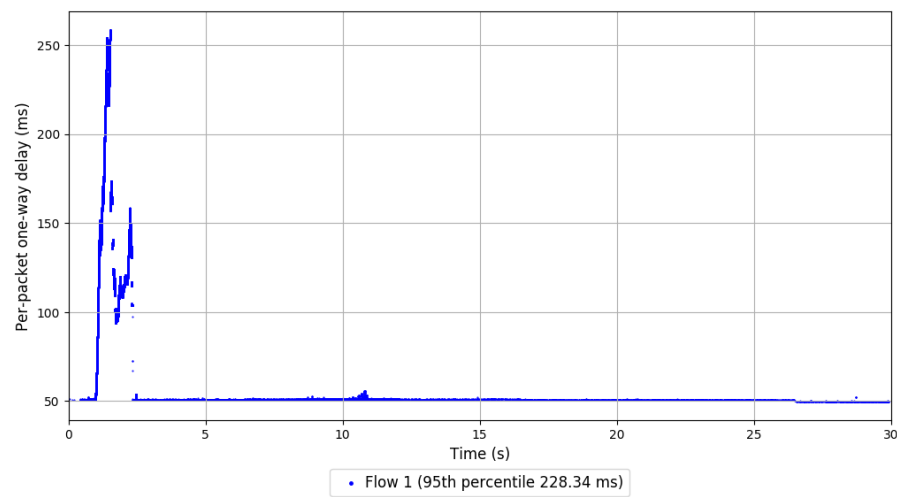
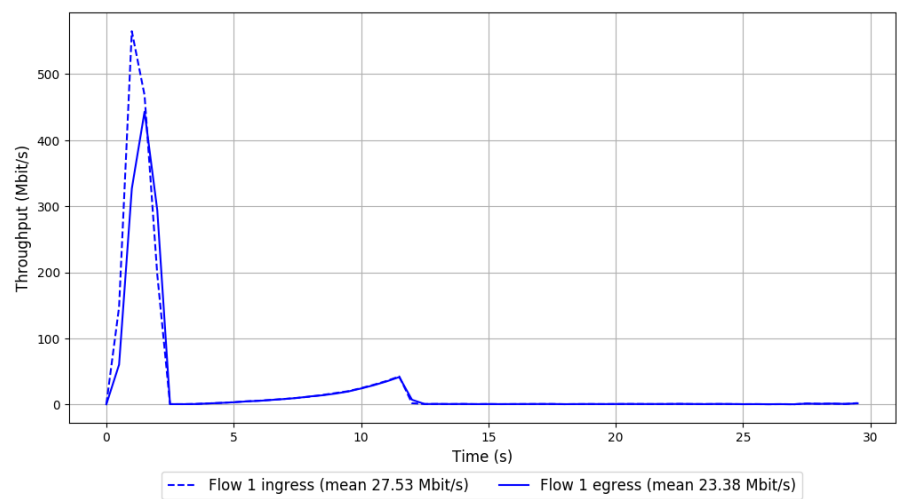
-- Flow 1:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 228.340 ms

Loss rate: 15.37%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-30 18:12:21

End at: 2018-01-30 18:12:51

Below is generated by plot.py at 2018-01-30 23:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 211.131 ms

Loss rate: 15.54%

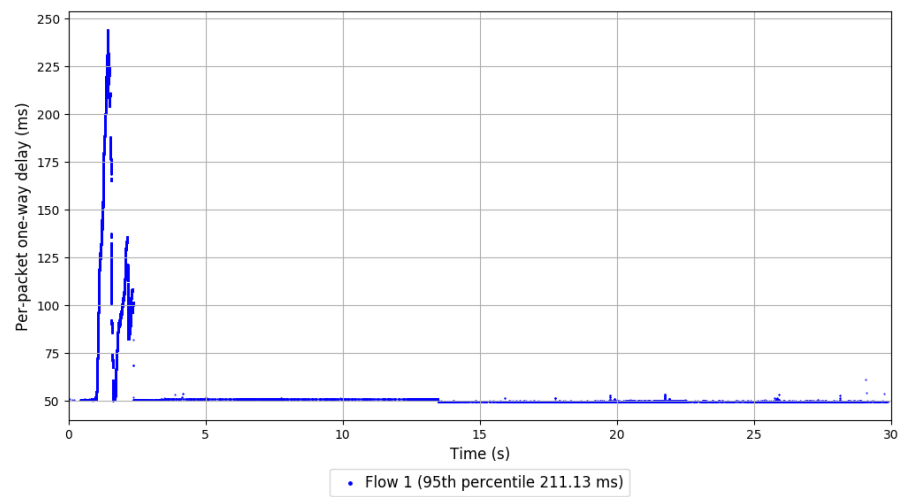
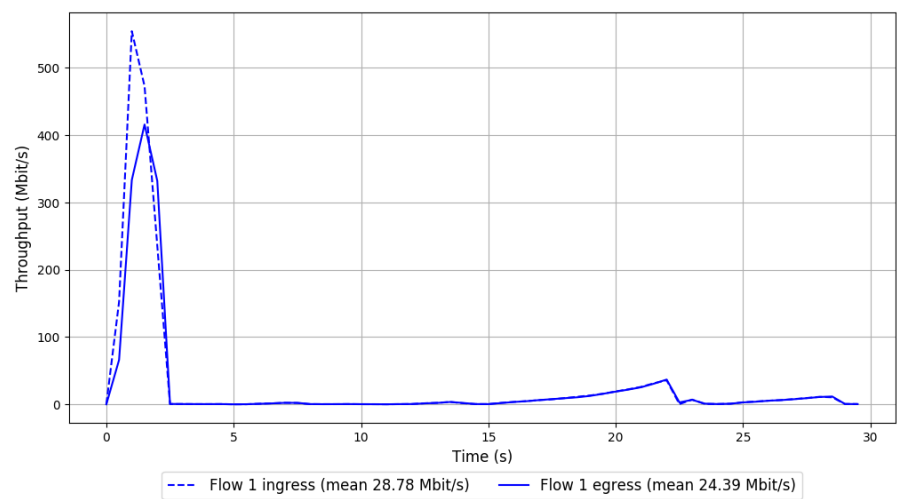
-- Flow 1:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 211.131 ms

Loss rate: 15.54%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-30 18:26:18

End at: 2018-01-30 18:26:48

Below is generated by plot.py at 2018-01-30 23:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 197.706 ms

Loss rate: 13.15%

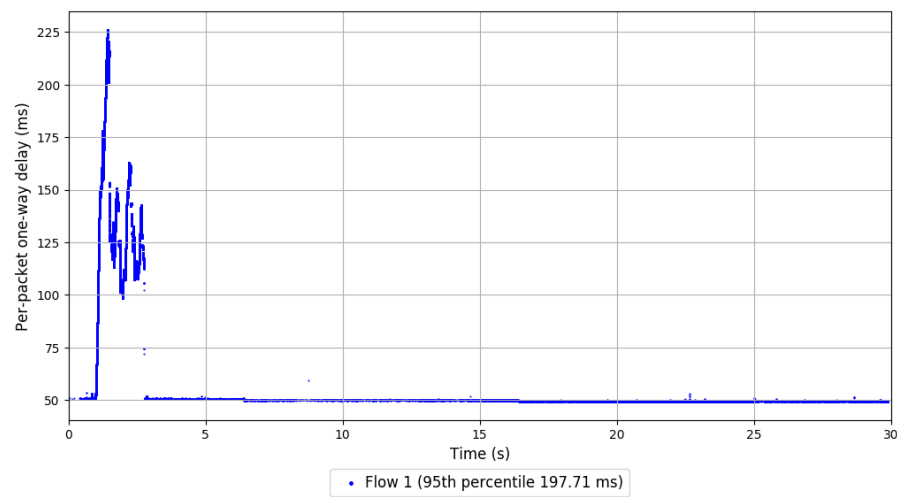
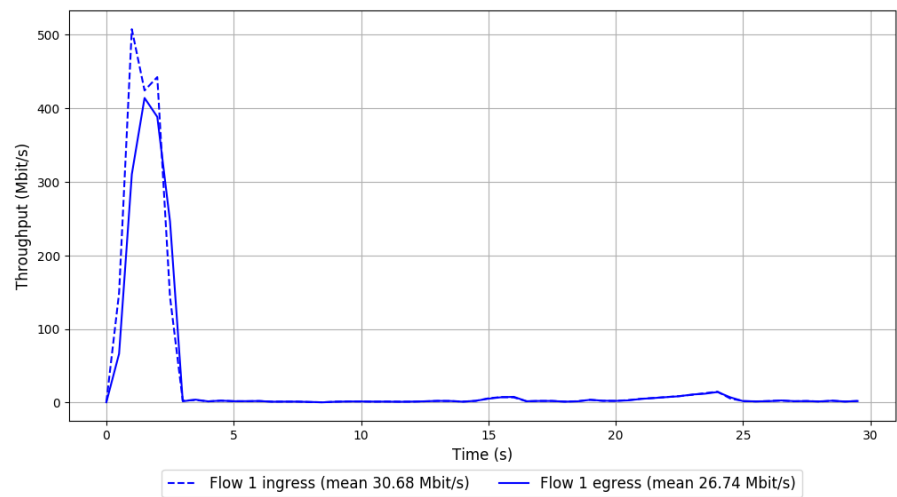
-- Flow 1:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 197.706 ms

Loss rate: 13.15%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-30 18:40:12

End at: 2018-01-30 18:40:42

Below is generated by plot.py at 2018-01-30 23:05:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 237.982 ms

Loss rate: 16.56%

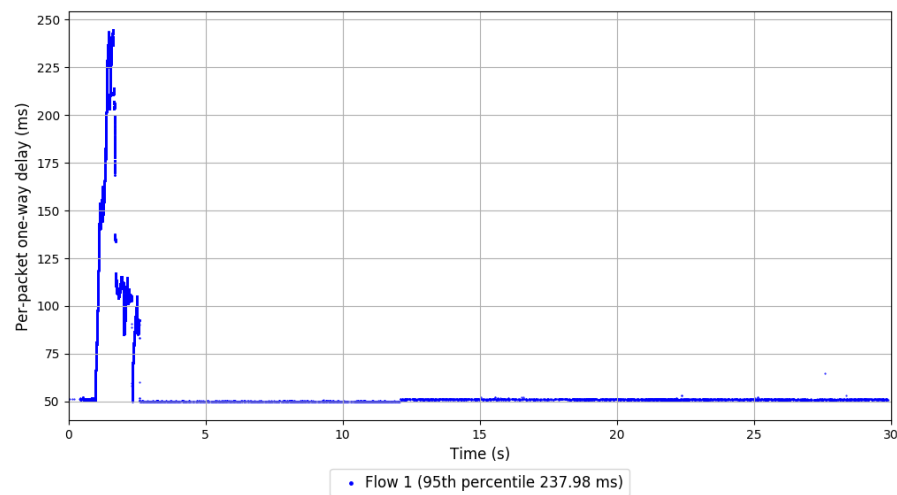
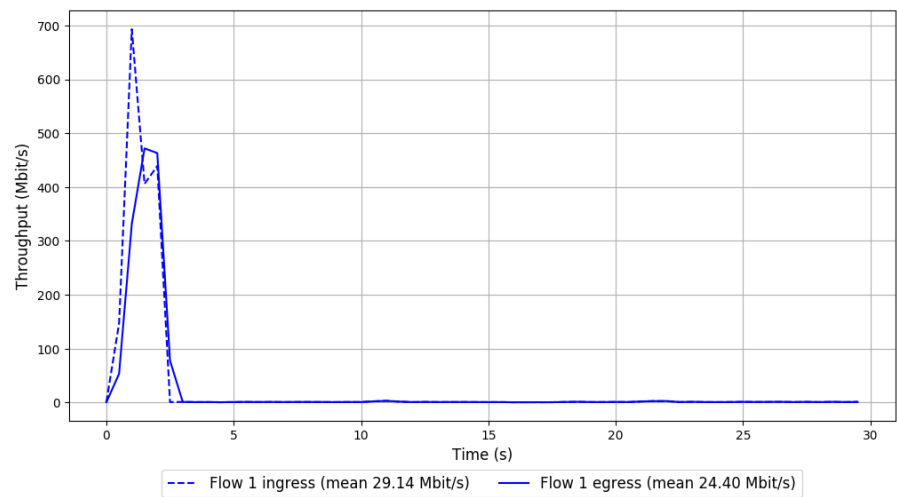
-- Flow 1:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 237.982 ms

Loss rate: 16.56%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-30 18:54:06

End at: 2018-01-30 18:54:36

Below is generated by plot.py at 2018-01-30 23:06:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 195.617 ms

Loss rate: 10.15%

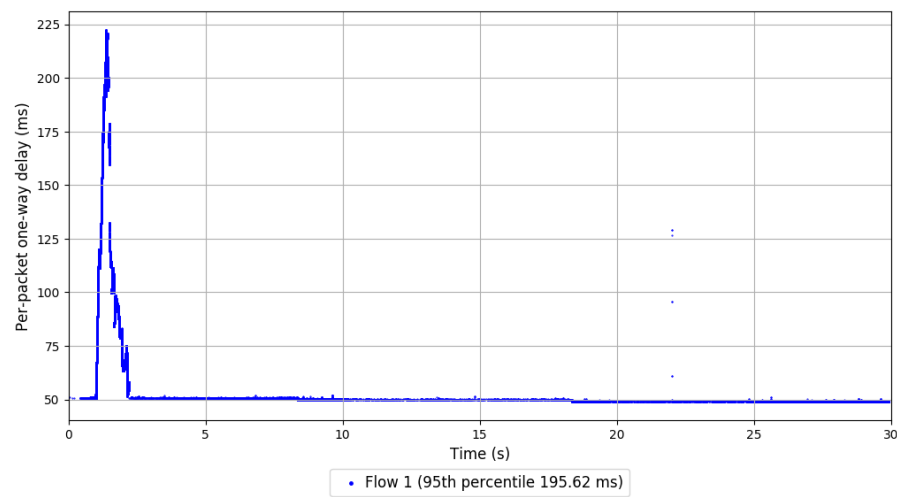
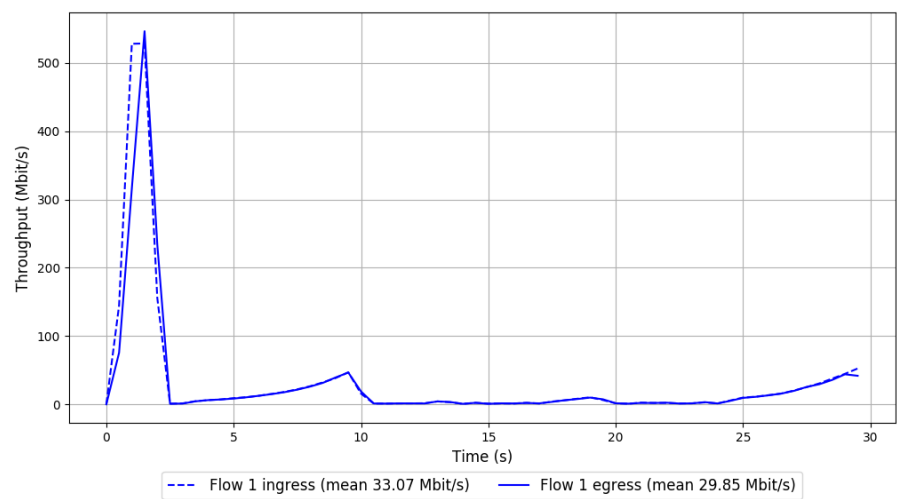
-- Flow 1:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 195.617 ms

Loss rate: 10.15%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-30 19:08:06

End at: 2018-01-30 19:08:36

Below is generated by plot.py at 2018-01-30 23:16:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.16 Mbit/s

95th percentile per-packet one-way delay: 137.807 ms

Loss rate: 6.40%

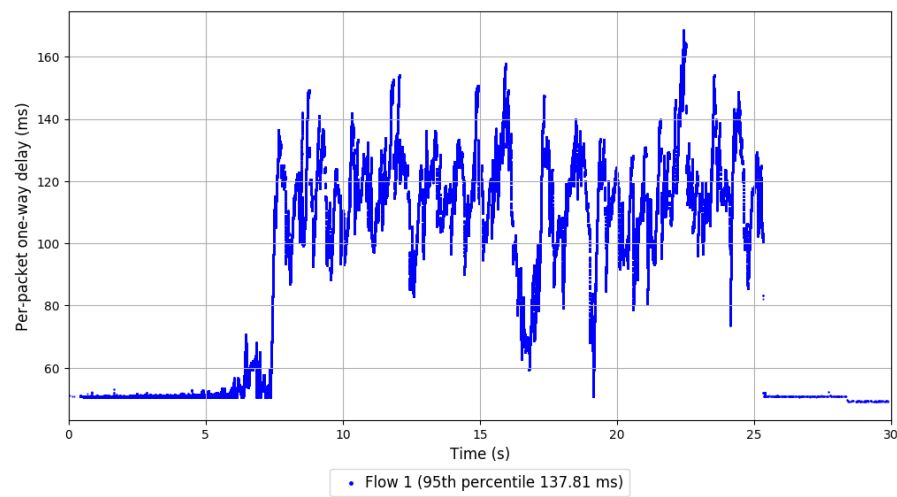
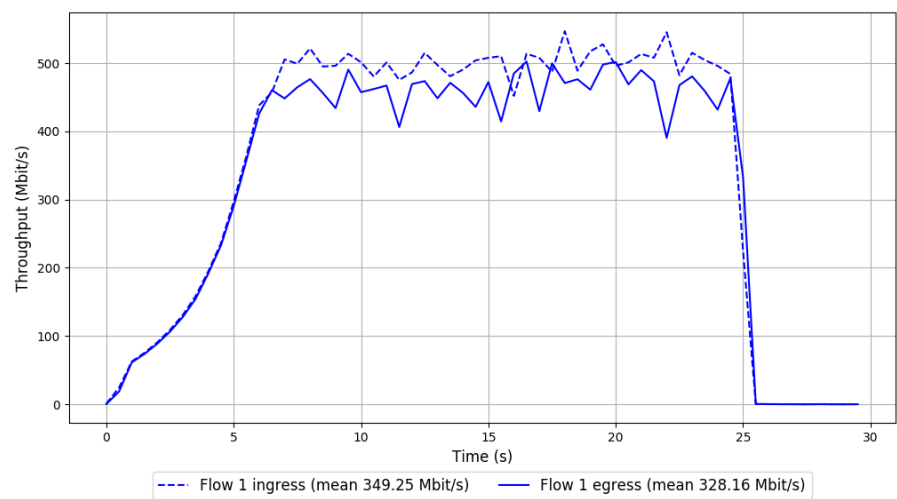
-- Flow 1:

Average throughput: 328.16 Mbit/s

95th percentile per-packet one-way delay: 137.807 ms

Loss rate: 6.40%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-30 19:22:21

End at: 2018-01-30 19:22:51

Below is generated by plot.py at 2018-01-30 23:16:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 185.953 ms

Loss rate: 14.82%

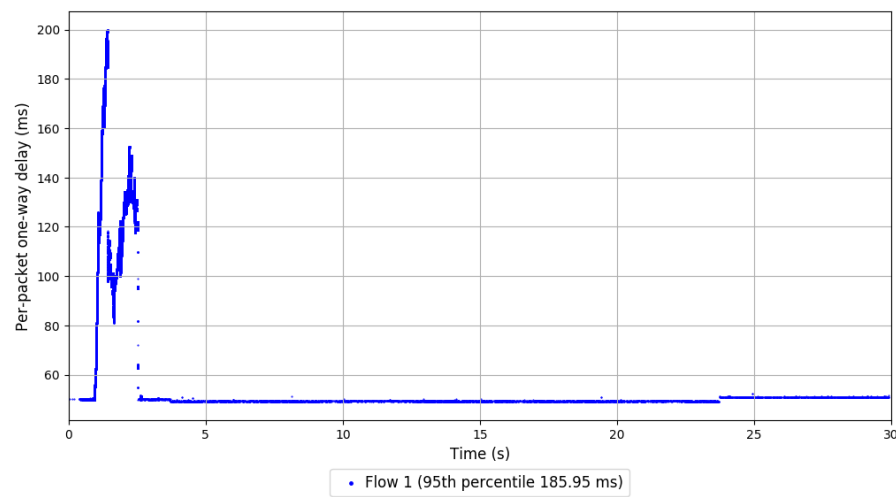
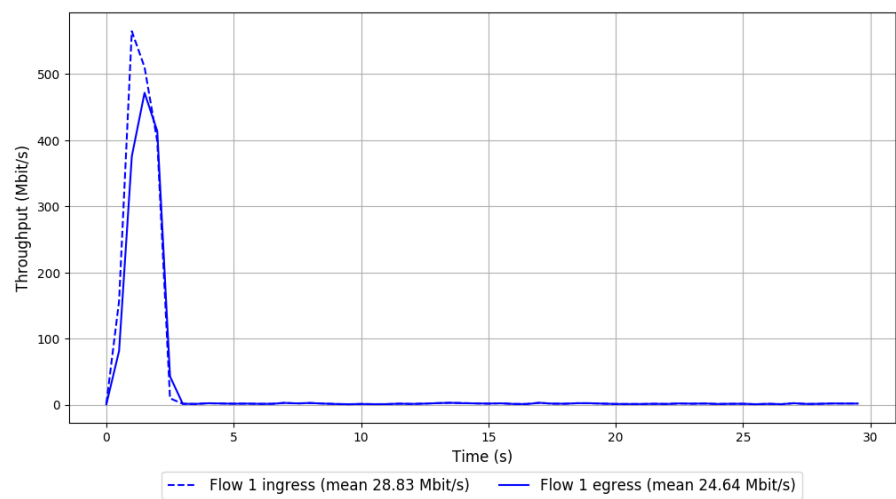
-- Flow 1:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 185.953 ms

Loss rate: 14.82%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-30 19:36:13

End at: 2018-01-30 19:36:43

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 211.415 ms

Loss rate: 15.47%

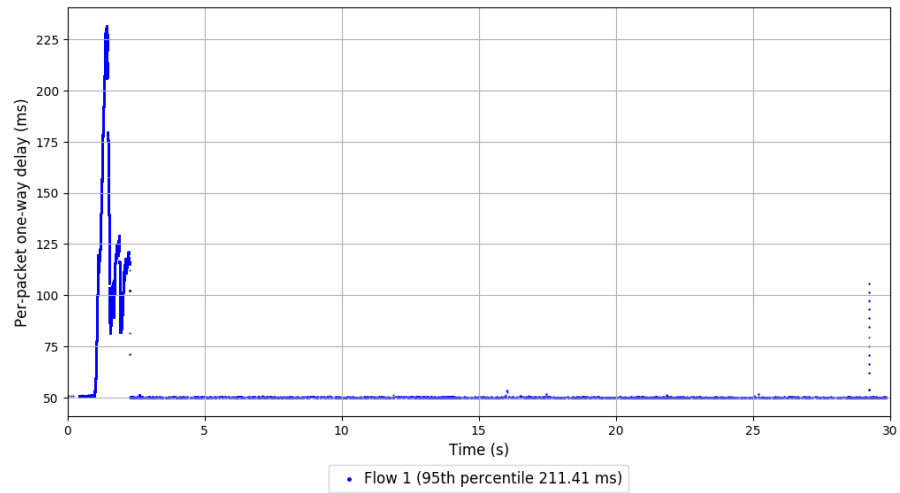
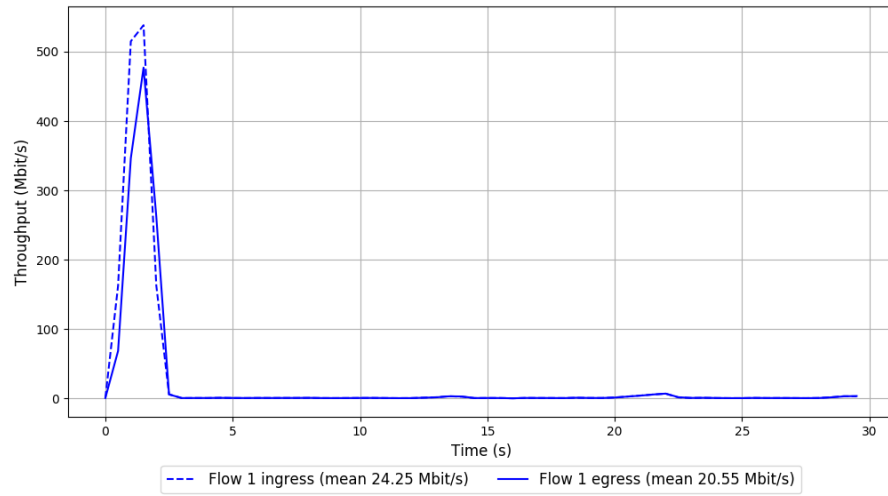
-- Flow 1:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 211.415 ms

Loss rate: 15.47%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-30 19:50:11

End at: 2018-01-30 19:50:41

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.52 Mbit/s

95th percentile per-packet one-way delay: 154.066 ms

Loss rate: 10.67%

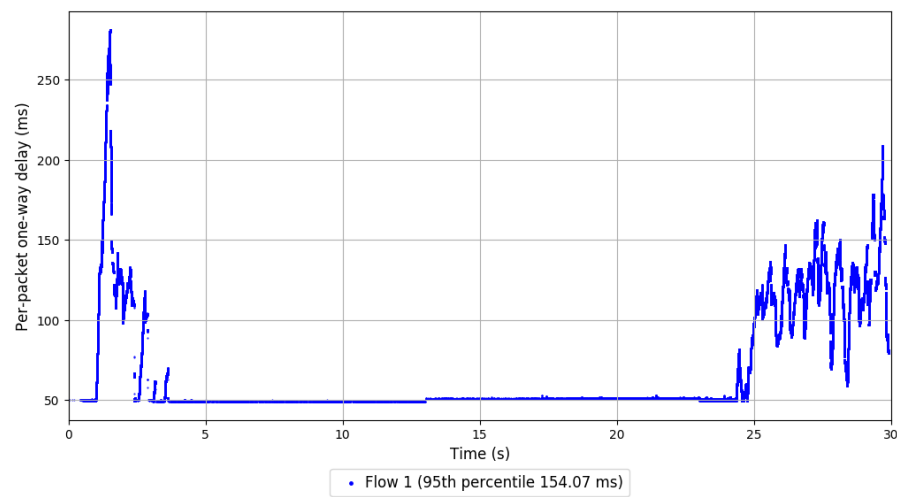
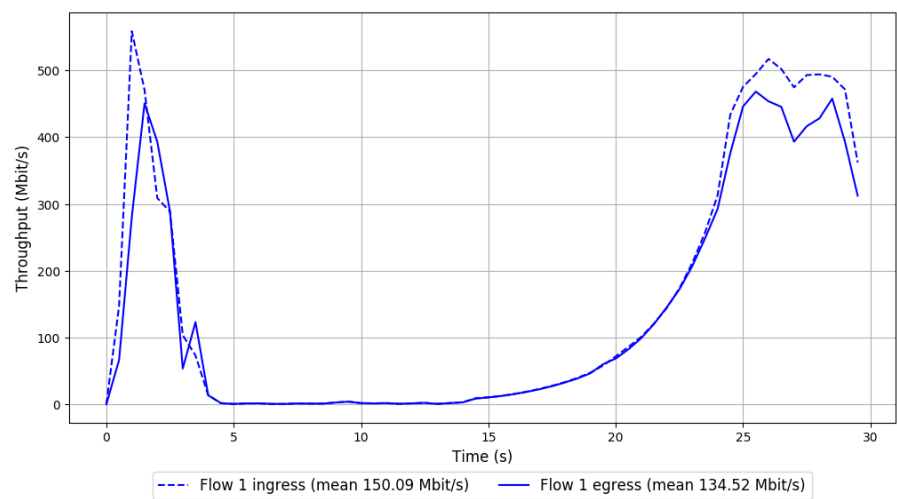
-- Flow 1:

Average throughput: 134.52 Mbit/s

95th percentile per-packet one-way delay: 154.066 ms

Loss rate: 10.67%

Run 10: Report of FillP — Data Link

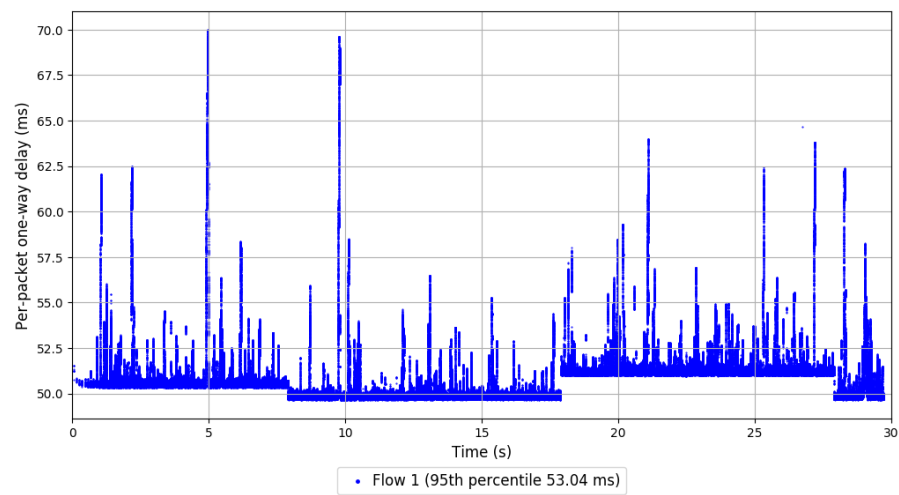
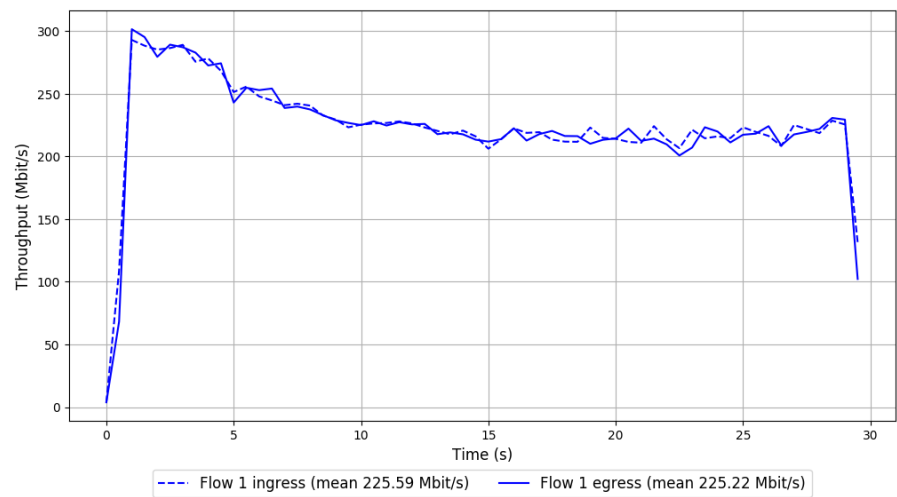


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-30 17:55:36
End at: 2018-01-30 17:56:06

# Below is generated by plot.py at 2018-01-30 23:16:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.22 Mbit/s
95th percentile per-packet one-way delay: 53.037 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 225.22 Mbit/s
95th percentile per-packet one-way delay: 53.037 ms
Loss rate: 0.51%
```

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

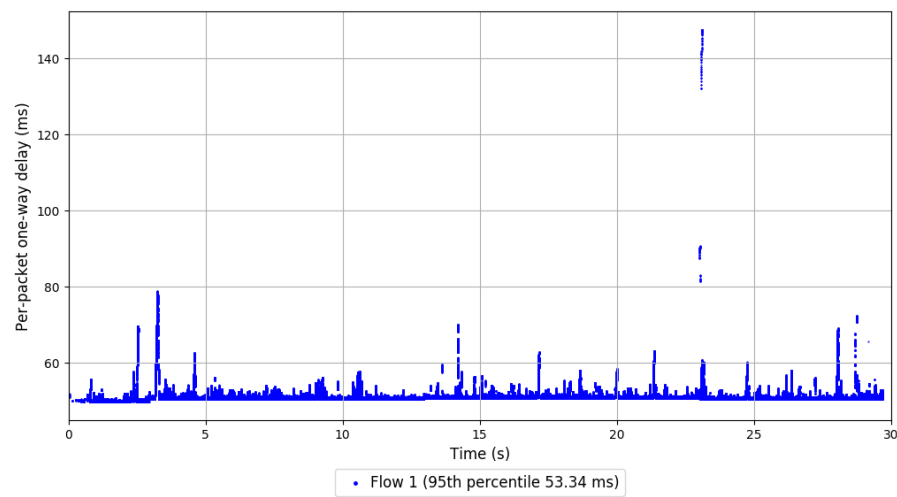
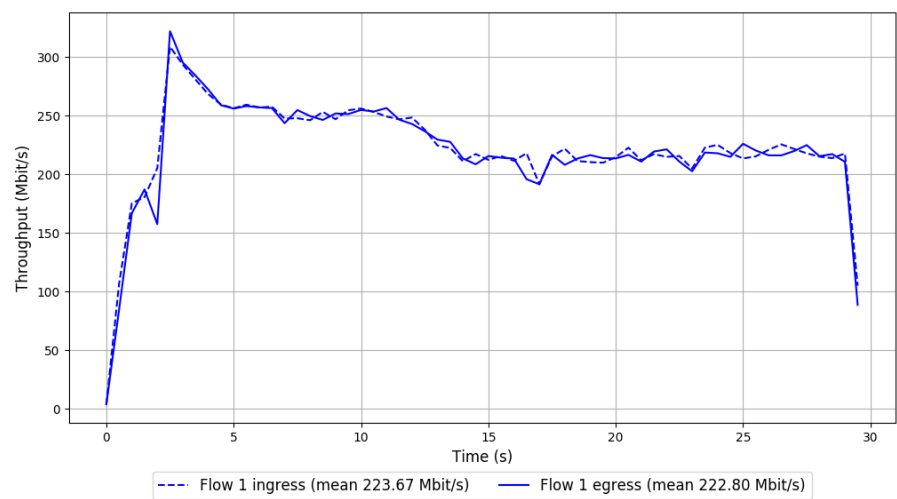


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-30 18:09:31
End at: 2018-01-30 18:10:01

# Below is generated by plot.py at 2018-01-30 23:16:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.80 Mbit/s
95th percentile per-packet one-way delay: 53.336 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 222.80 Mbit/s
95th percentile per-packet one-way delay: 53.336 ms
Loss rate: 0.74%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-30 18:23:23

End at: 2018-01-30 18:23:53

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.03 Mbit/s

95th percentile per-packet one-way delay: 51.809 ms

Loss rate: 0.69%

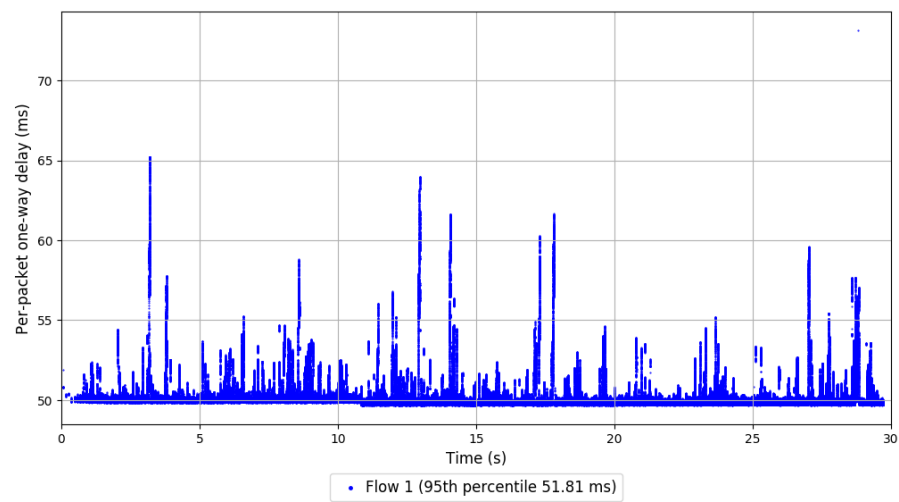
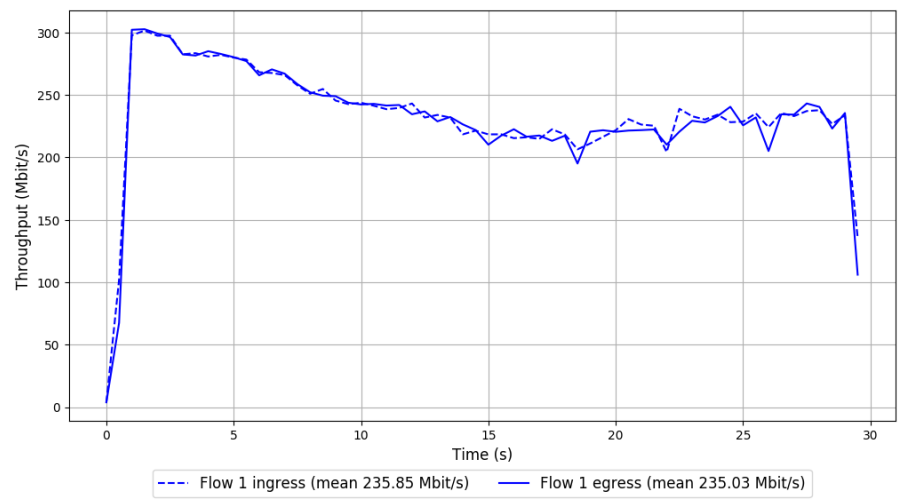
-- Flow 1:

Average throughput: 235.03 Mbit/s

95th percentile per-packet one-way delay: 51.809 ms

Loss rate: 0.69%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-30 18:37:17

End at: 2018-01-30 18:37:47

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.67 Mbit/s

95th percentile per-packet one-way delay: 55.600 ms

Loss rate: 0.37%

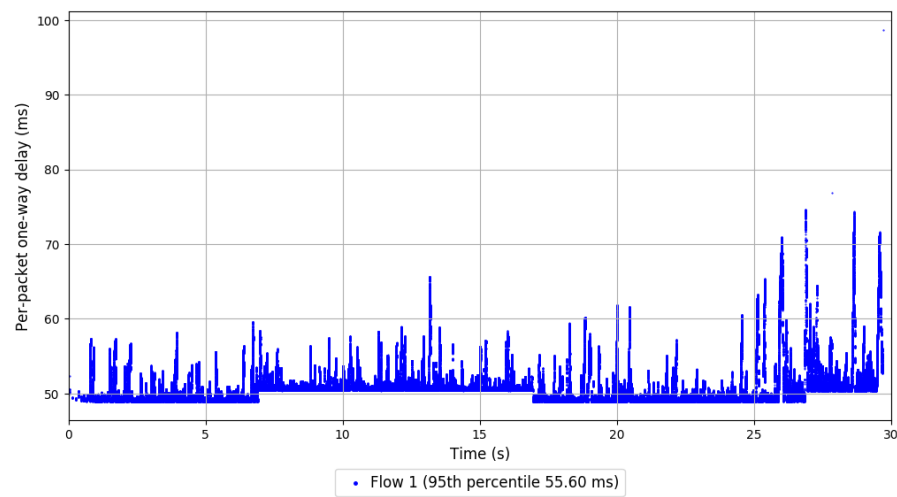
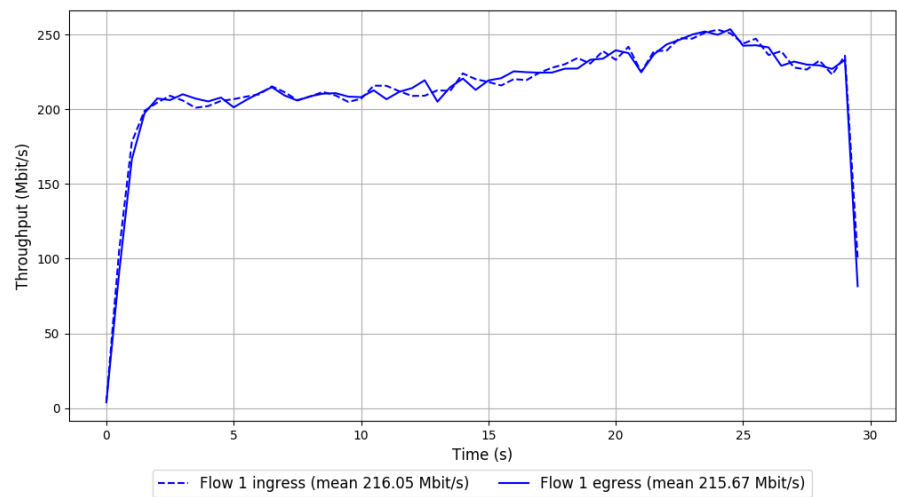
-- Flow 1:

Average throughput: 215.67 Mbit/s

95th percentile per-packet one-way delay: 55.600 ms

Loss rate: 0.37%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-30 18:51:20

End at: 2018-01-30 18:51:50

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.54 Mbit/s

95th percentile per-packet one-way delay: 52.591 ms

Loss rate: 0.42%

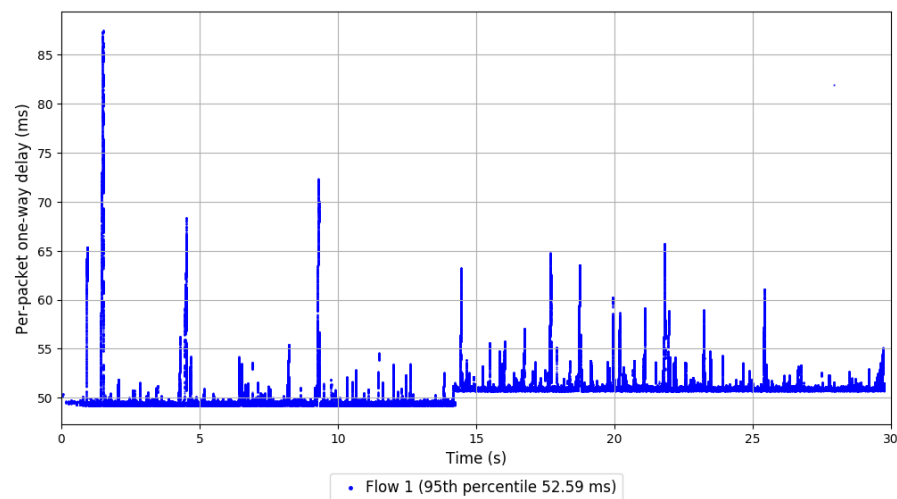
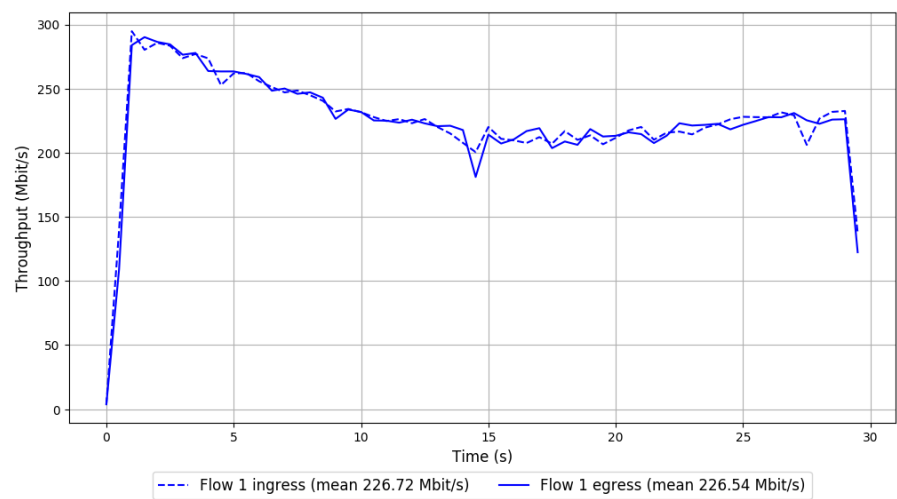
-- Flow 1:

Average throughput: 226.54 Mbit/s

95th percentile per-packet one-way delay: 52.591 ms

Loss rate: 0.42%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-30 19:05:13

End at: 2018-01-30 19:05:43

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.75 Mbit/s

95th percentile per-packet one-way delay: 53.323 ms

Loss rate: 0.35%

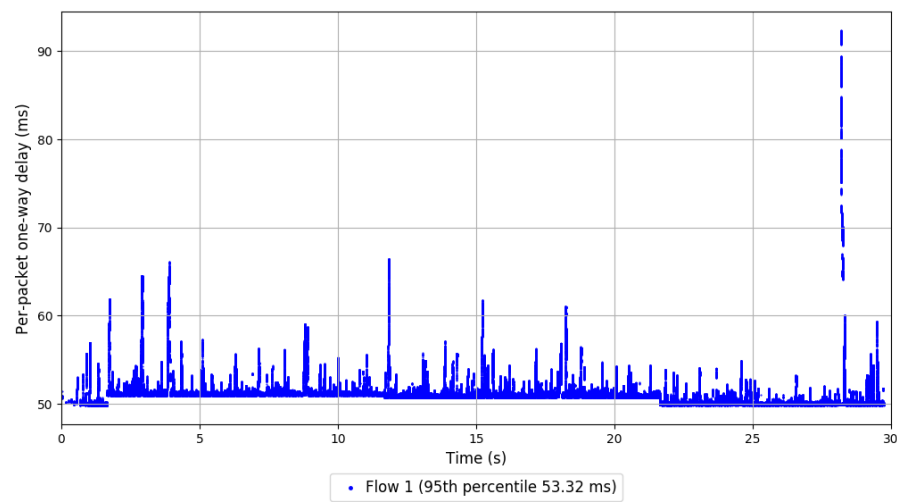
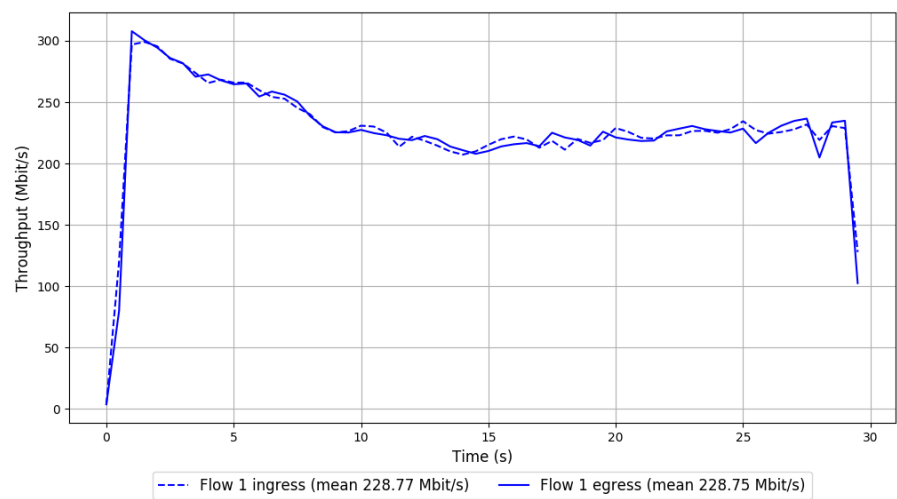
-- Flow 1:

Average throughput: 228.75 Mbit/s

95th percentile per-packet one-way delay: 53.323 ms

Loss rate: 0.35%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-30 19:19:27

End at: 2018-01-30 19:19:57

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.20 Mbit/s

95th percentile per-packet one-way delay: 52.952 ms

Loss rate: 0.35%

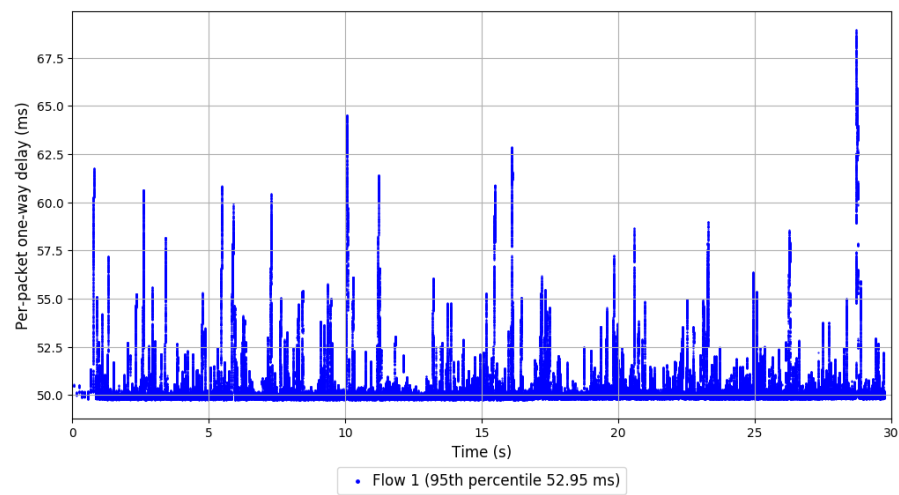
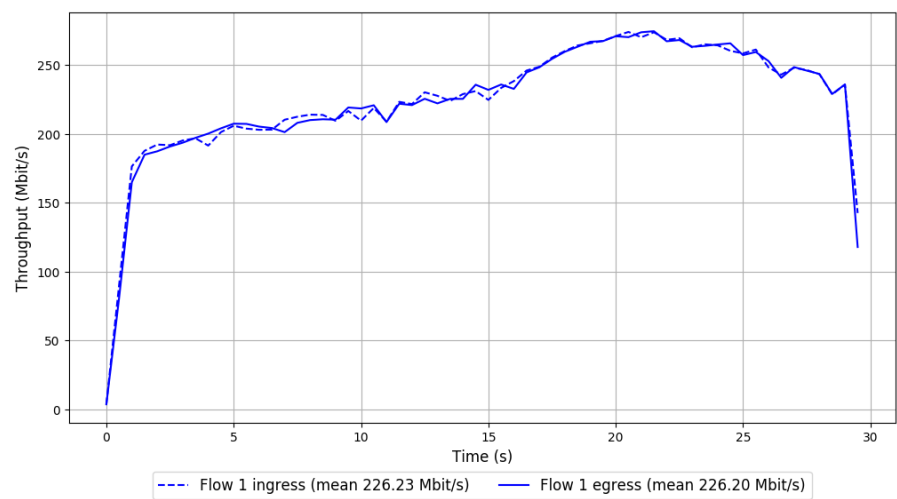
-- Flow 1:

Average throughput: 226.20 Mbit/s

95th percentile per-packet one-way delay: 52.952 ms

Loss rate: 0.35%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-30 19:33:18

End at: 2018-01-30 19:33:48

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.53 Mbit/s

95th percentile per-packet one-way delay: 52.841 ms

Loss rate: 0.37%

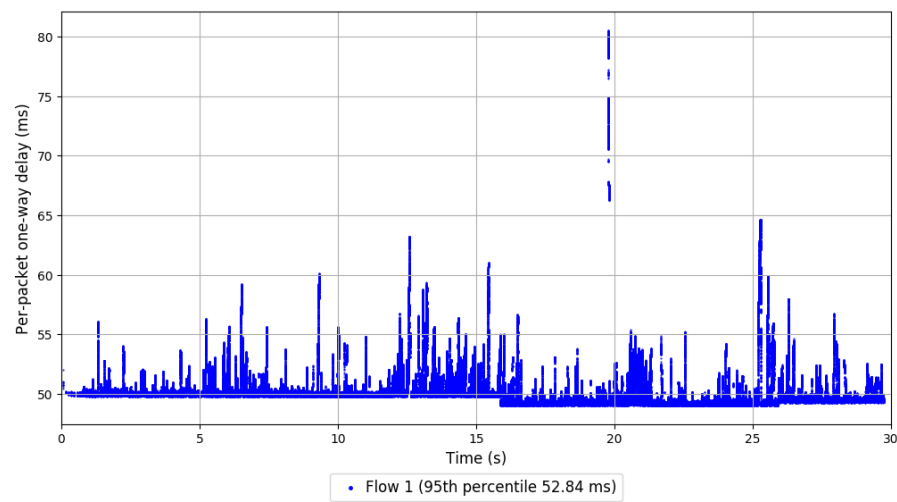
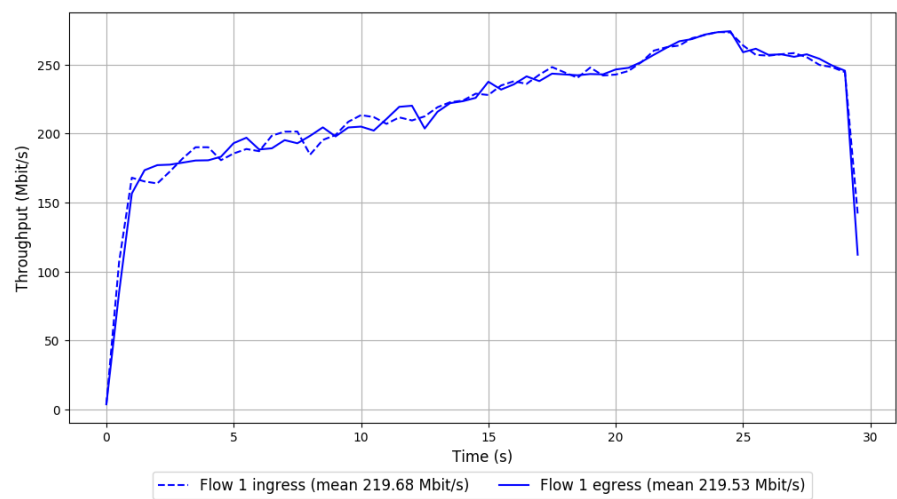
-- Flow 1:

Average throughput: 219.53 Mbit/s

95th percentile per-packet one-way delay: 52.841 ms

Loss rate: 0.37%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-30 19:47:23

End at: 2018-01-30 19:47:53

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.75 Mbit/s

95th percentile per-packet one-way delay: 53.286 ms

Loss rate: 0.59%

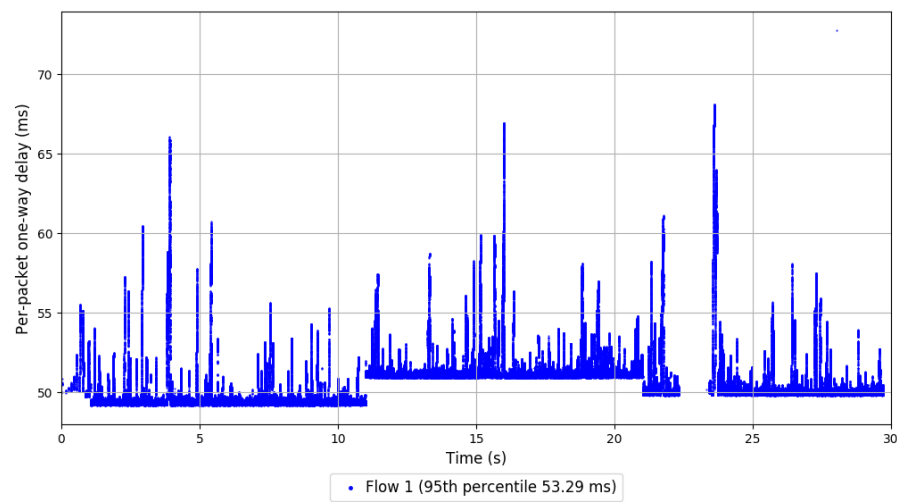
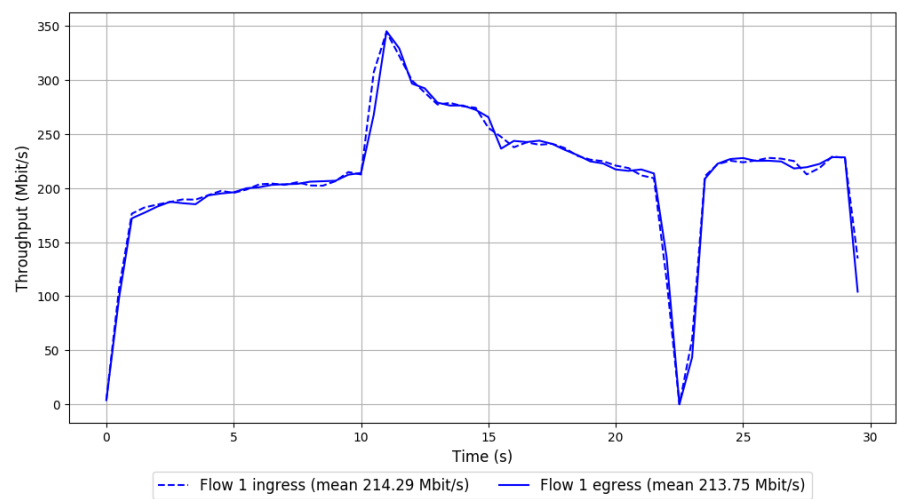
-- Flow 1:

Average throughput: 213.75 Mbit/s

95th percentile per-packet one-way delay: 53.286 ms

Loss rate: 0.59%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-30 20:01:06

End at: 2018-01-30 20:01:36

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.69 Mbit/s

95th percentile per-packet one-way delay: 53.362 ms

Loss rate: 0.35%

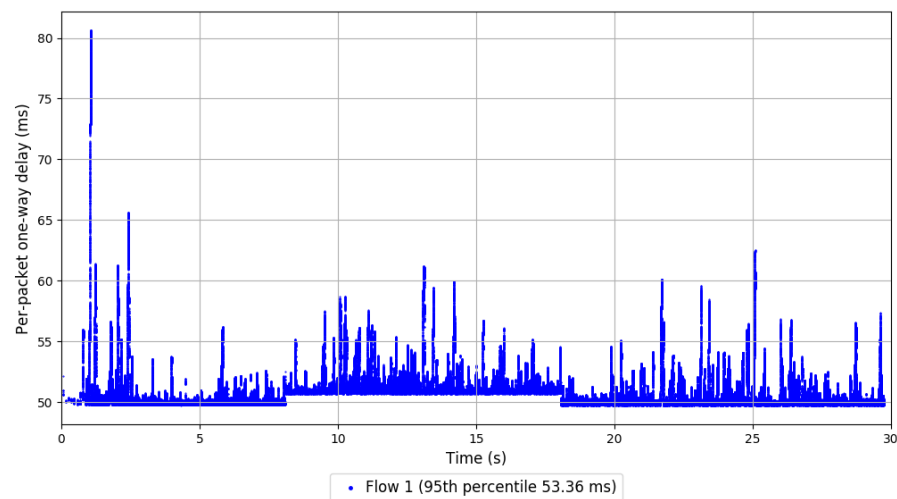
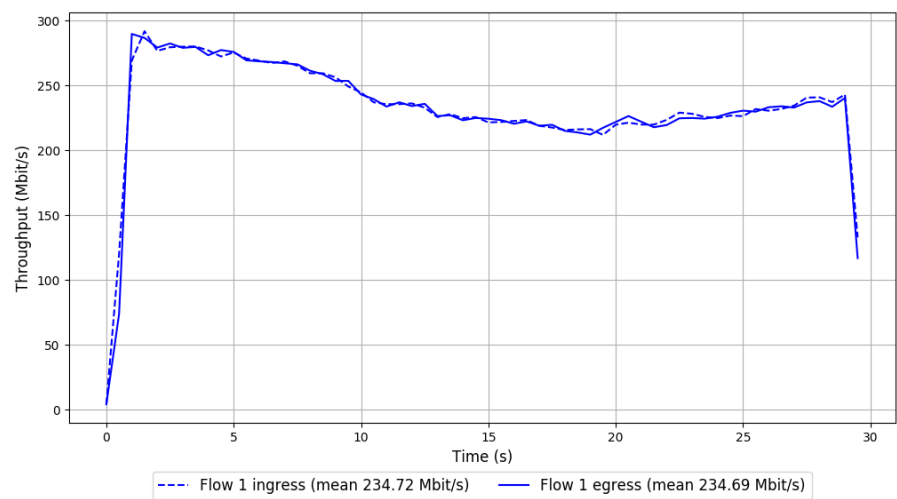
-- Flow 1:

Average throughput: 234.69 Mbit/s

95th percentile per-packet one-way delay: 53.362 ms

Loss rate: 0.35%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-01-30 17:42:34

End at: 2018-01-30 17:43:04

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.17 Mbit/s

95th percentile per-packet one-way delay: 60.593 ms

Loss rate: 0.64%

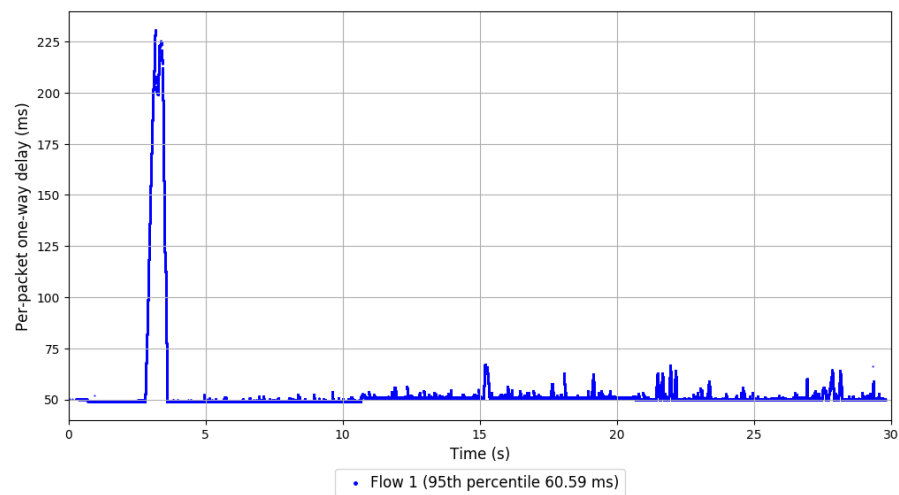
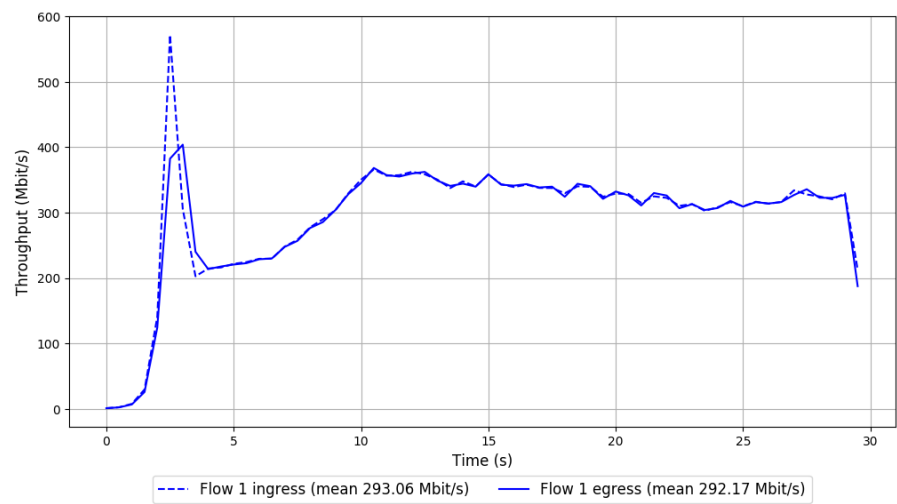
-- Flow 1:

Average throughput: 292.17 Mbit/s

95th percentile per-packet one-way delay: 60.593 ms

Loss rate: 0.64%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-30 17:56:28

End at: 2018-01-30 17:56:58

Below is generated by plot.py at 2018-01-30 23:16:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.37 Mbit/s

95th percentile per-packet one-way delay: 57.693 ms

Loss rate: 0.66%

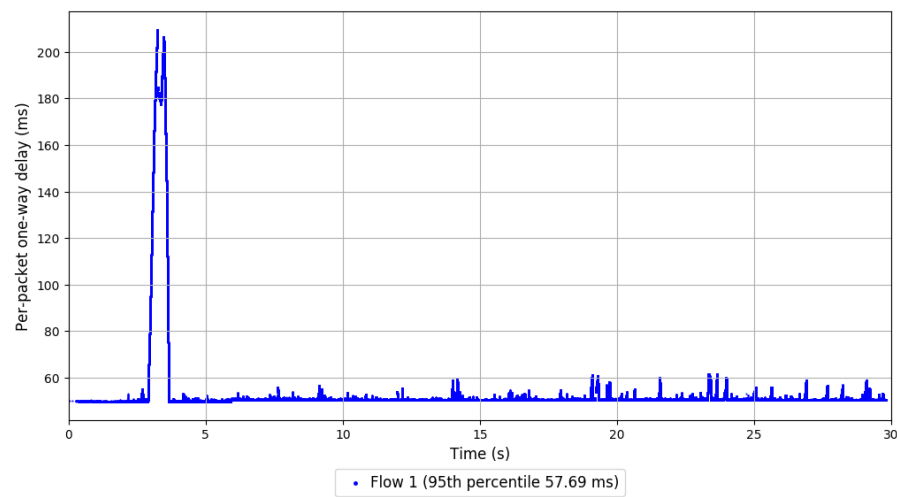
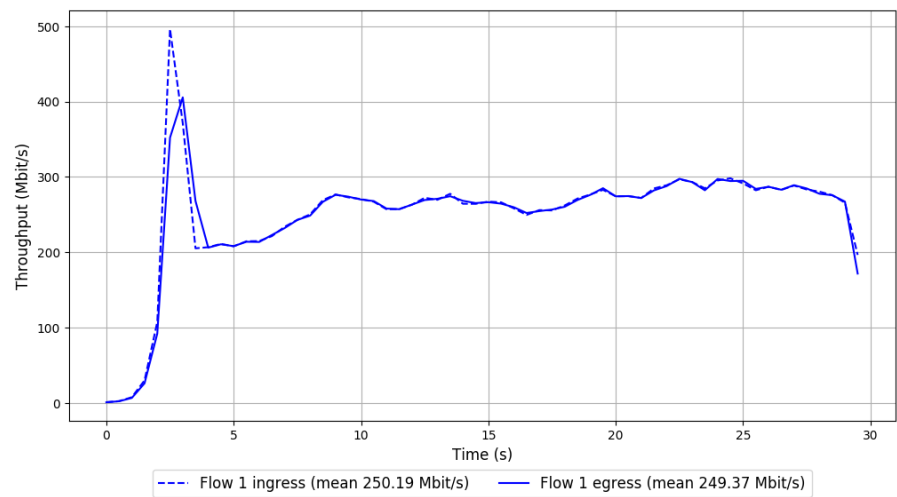
-- Flow 1:

Average throughput: 249.37 Mbit/s

95th percentile per-packet one-way delay: 57.693 ms

Loss rate: 0.66%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-30 18:10:24

End at: 2018-01-30 18:10:54

Below is generated by plot.py at 2018-01-30 23:16:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.47 Mbit/s

95th percentile per-packet one-way delay: 171.719 ms

Loss rate: 1.00%

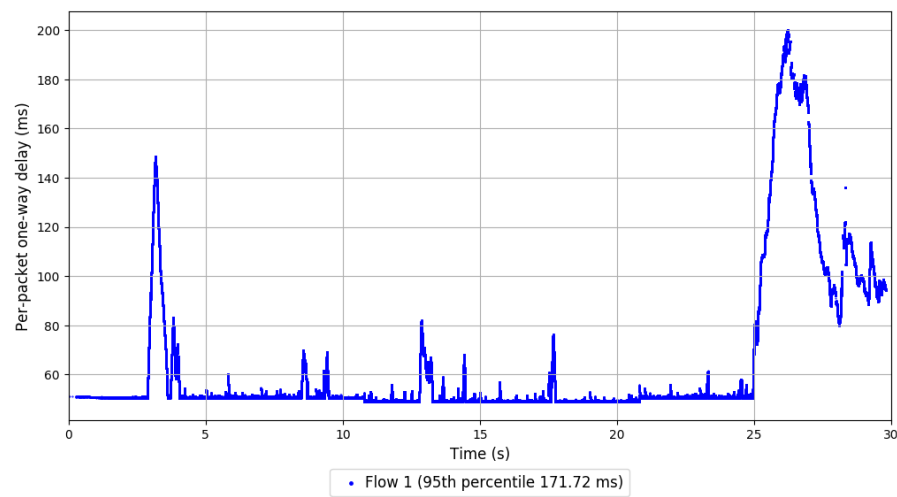
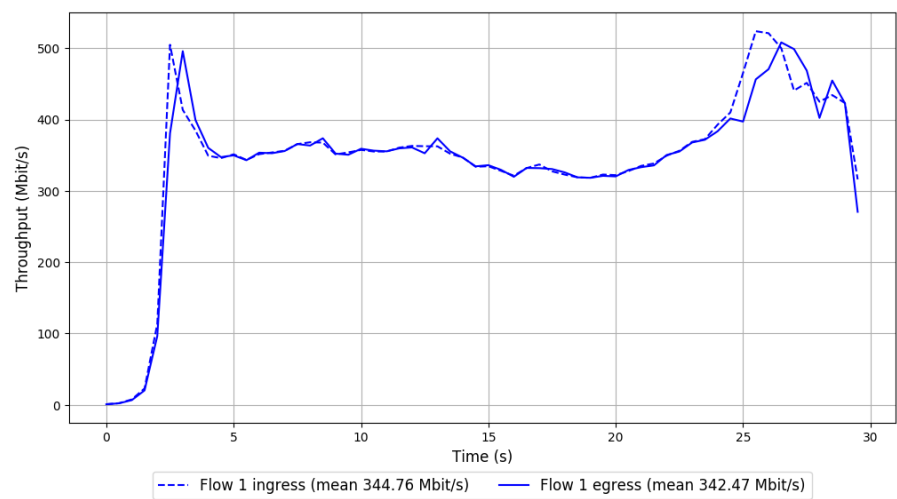
-- Flow 1:

Average throughput: 342.47 Mbit/s

95th percentile per-packet one-way delay: 171.719 ms

Loss rate: 1.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-30 18:24:16

End at: 2018-01-30 18:24:46

Below is generated by plot.py at 2018-01-30 23:19:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.62 Mbit/s

95th percentile per-packet one-way delay: 79.030 ms

Loss rate: 0.46%

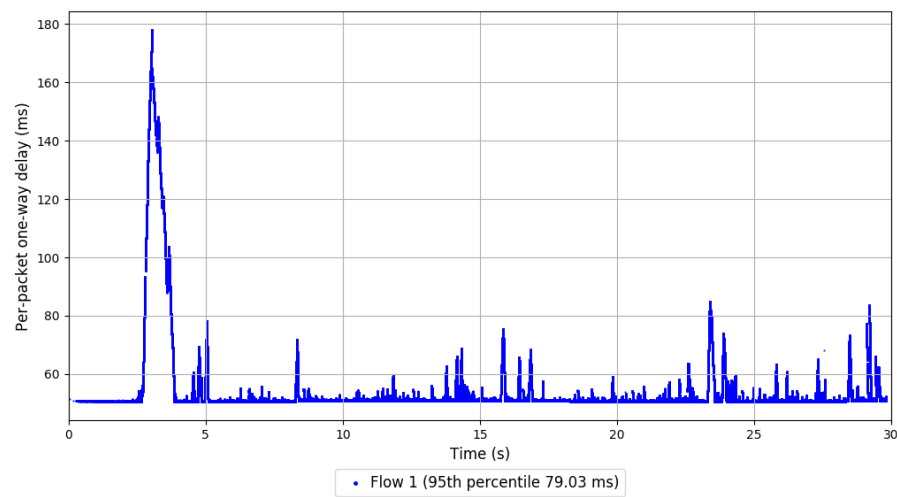
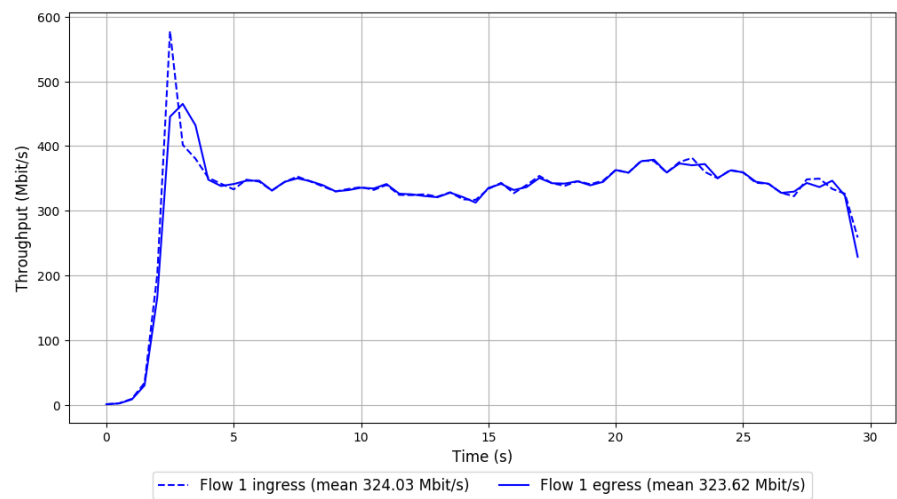
-- Flow 1:

Average throughput: 323.62 Mbit/s

95th percentile per-packet one-way delay: 79.030 ms

Loss rate: 0.46%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-30 18:38:10

End at: 2018-01-30 18:38:40

Below is generated by plot.py at 2018-01-30 23:19:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.78 Mbit/s

95th percentile per-packet one-way delay: 157.309 ms

Loss rate: 0.84%

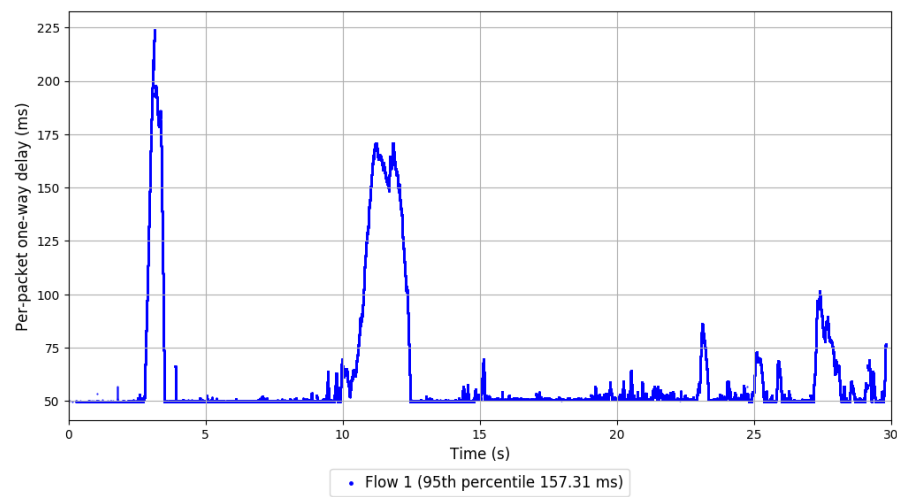
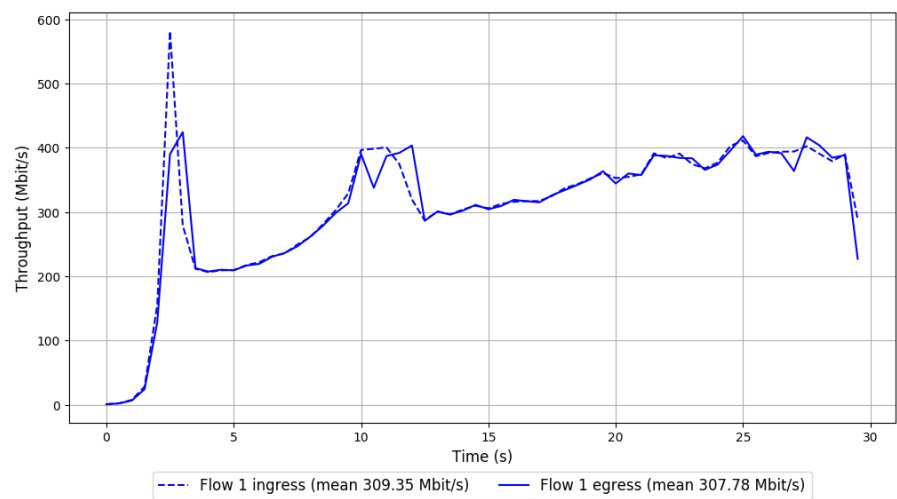
-- Flow 1:

Average throughput: 307.78 Mbit/s

95th percentile per-packet one-way delay: 157.309 ms

Loss rate: 0.84%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-30 18:52:12

End at: 2018-01-30 18:52:42

Below is generated by plot.py at 2018-01-30 23:19:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.13 Mbit/s

95th percentile per-packet one-way delay: 71.813 ms

Loss rate: 0.39%

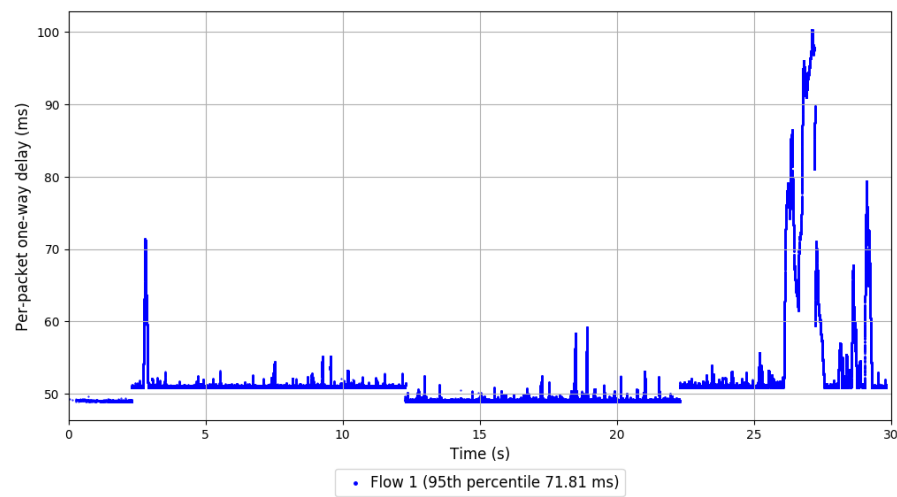
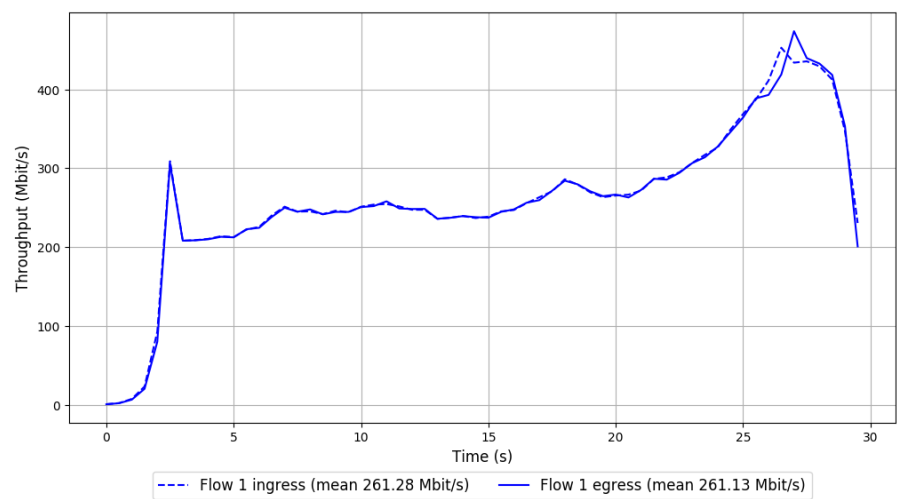
-- Flow 1:

Average throughput: 261.13 Mbit/s

95th percentile per-packet one-way delay: 71.813 ms

Loss rate: 0.39%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-30 19:06:05

End at: 2018-01-30 19:06:35

Below is generated by plot.py at 2018-01-30 23:20:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.76 Mbit/s

95th percentile per-packet one-way delay: 98.776 ms

Loss rate: 0.48%

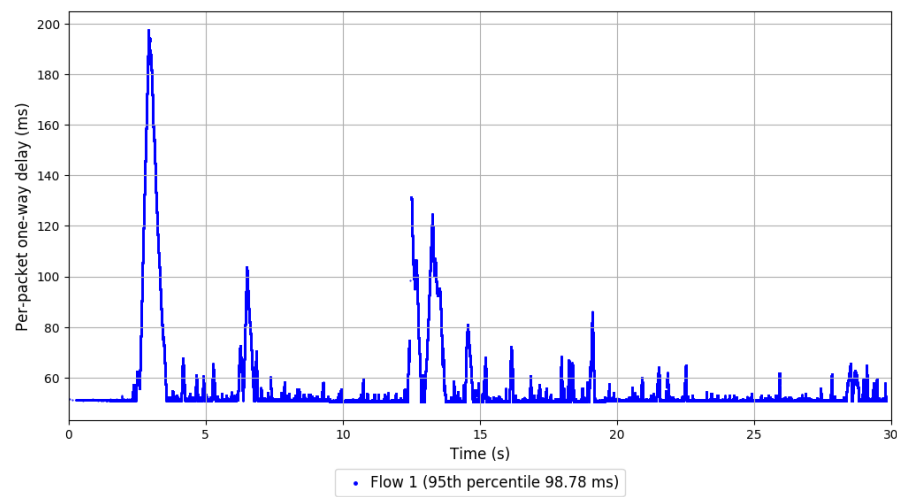
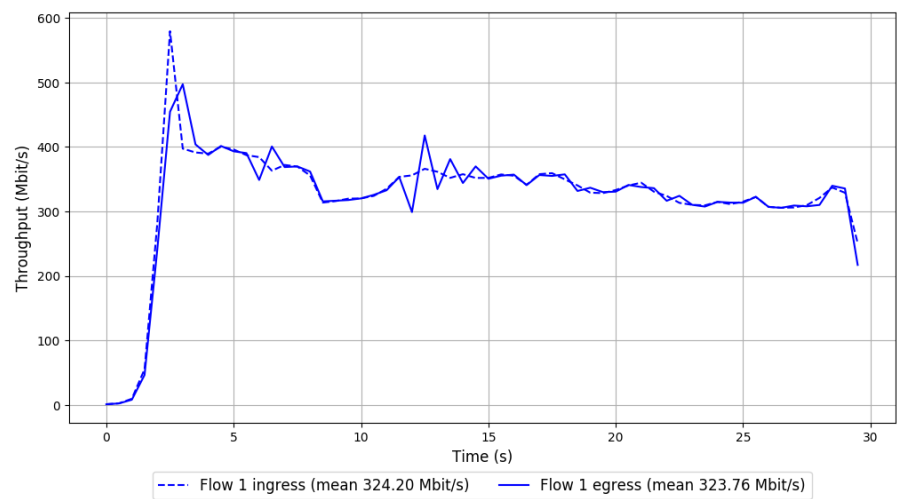
-- Flow 1:

Average throughput: 323.76 Mbit/s

95th percentile per-packet one-way delay: 98.776 ms

Loss rate: 0.48%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-30 19:20:20

End at: 2018-01-30 19:20:50

Below is generated by plot.py at 2018-01-30 23:20:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.57 Mbit/s

95th percentile per-packet one-way delay: 77.475 ms

Loss rate: 0.32%

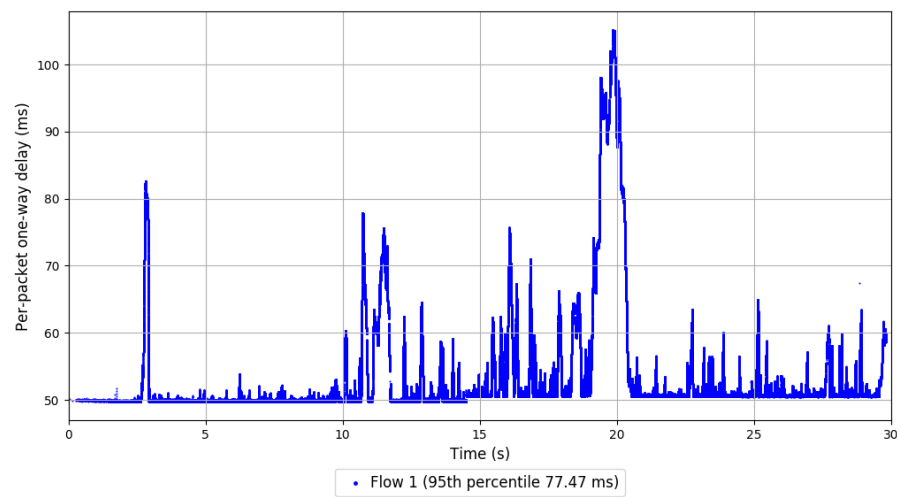
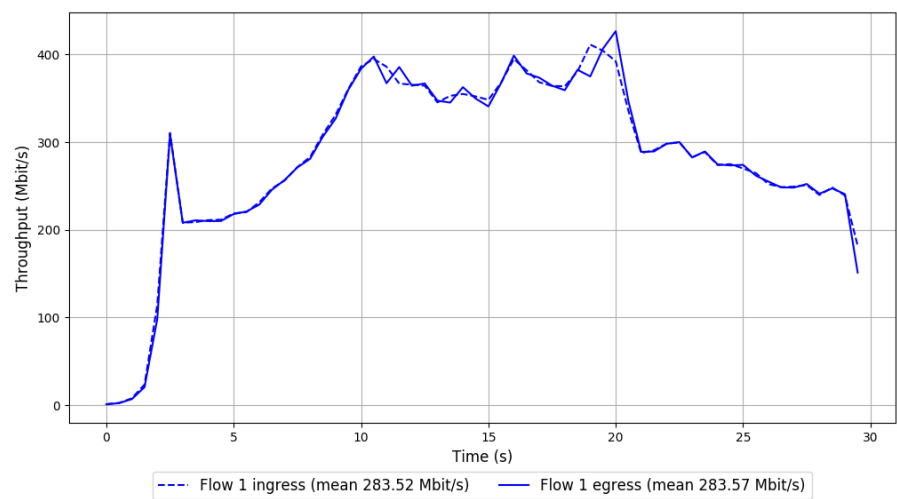
-- Flow 1:

Average throughput: 283.57 Mbit/s

95th percentile per-packet one-way delay: 77.475 ms

Loss rate: 0.32%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-30 19:34:10

End at: 2018-01-30 19:34:40

Below is generated by plot.py at 2018-01-30 23:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.61 Mbit/s

95th percentile per-packet one-way delay: 77.854 ms

Loss rate: 0.53%

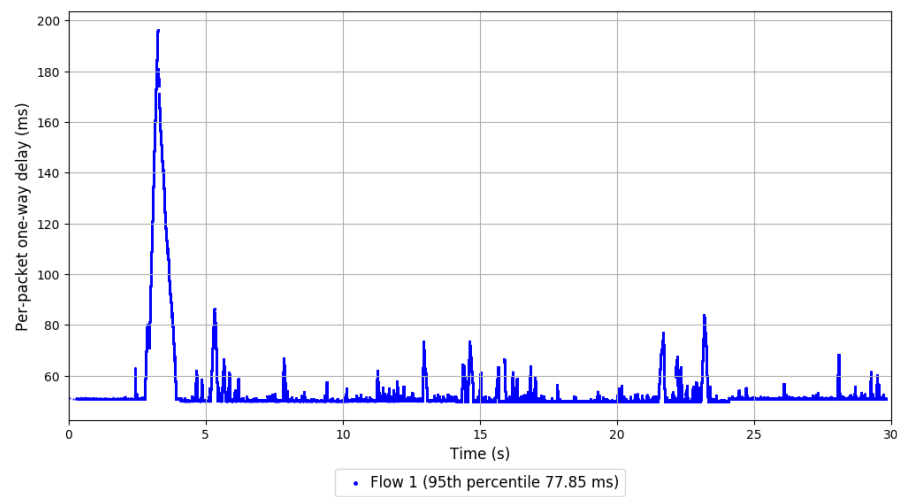
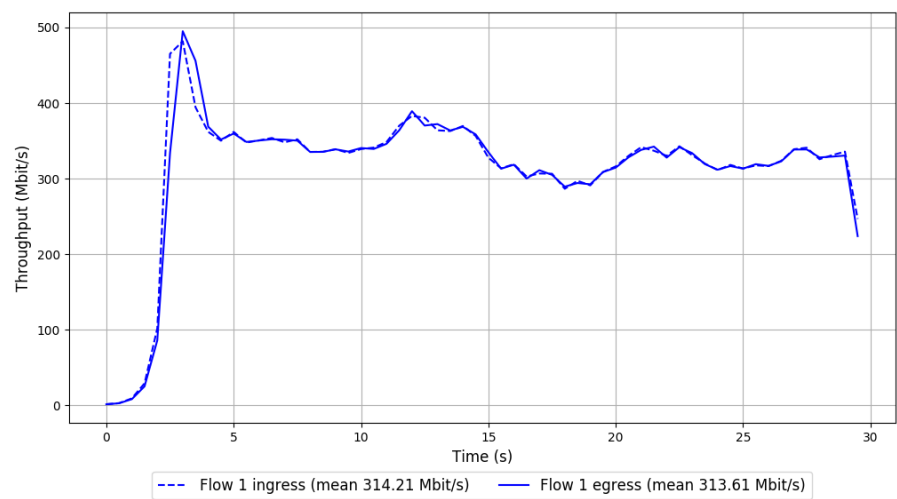
-- Flow 1:

Average throughput: 313.61 Mbit/s

95th percentile per-packet one-way delay: 77.854 ms

Loss rate: 0.53%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-30 19:48:15

End at: 2018-01-30 19:48:45

Below is generated by plot.py at 2018-01-30 23:22:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.32 Mbit/s

95th percentile per-packet one-way delay: 93.171 ms

Loss rate: 0.56%

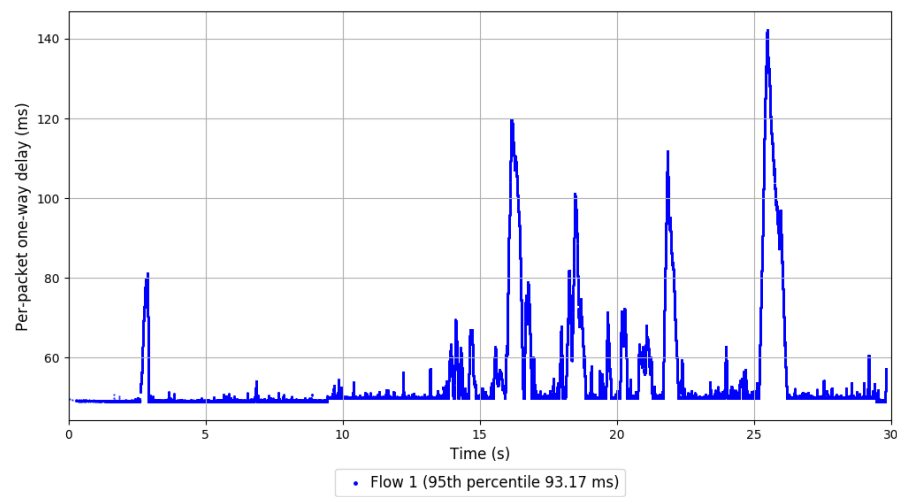
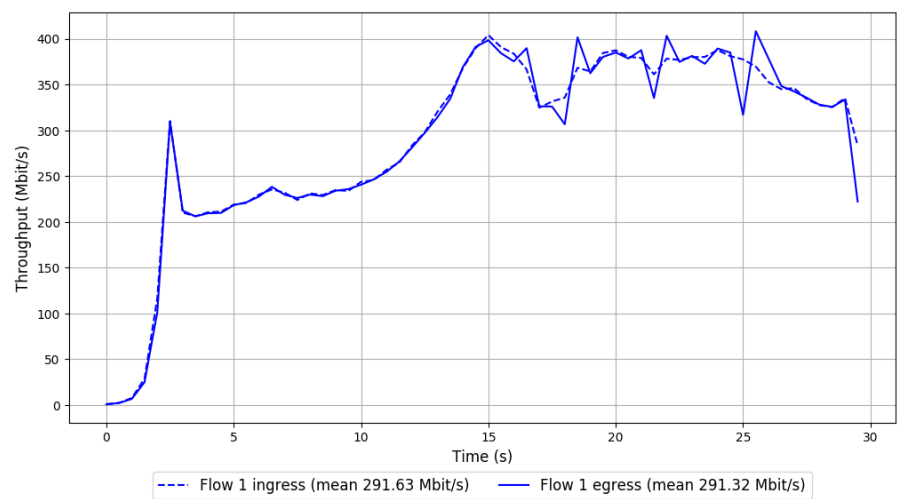
-- Flow 1:

Average throughput: 291.32 Mbit/s

95th percentile per-packet one-way delay: 93.171 ms

Loss rate: 0.56%

Run 10: Report of Vivace-latency — Data Link

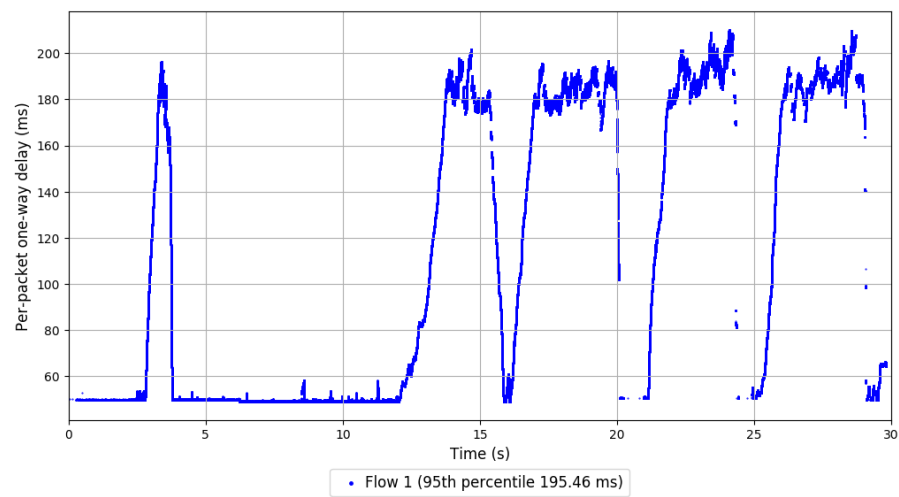
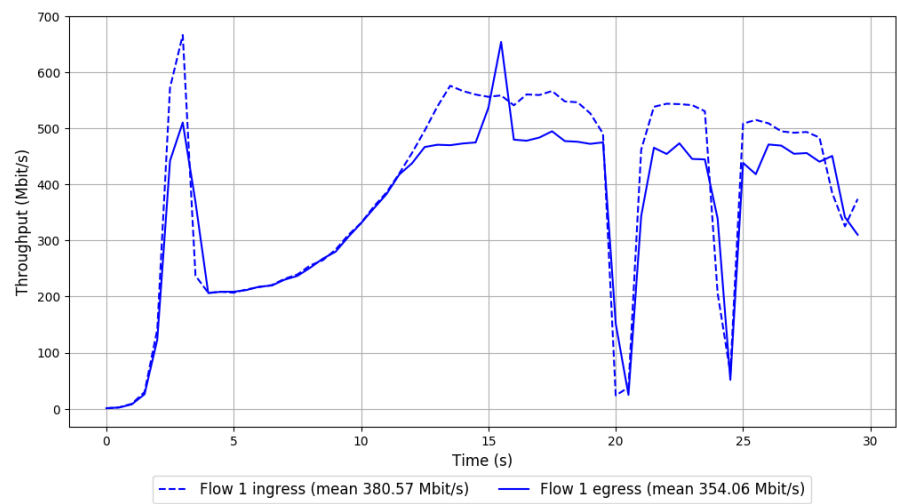


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-30 17:50:58
End at: 2018-01-30 17:51:28

# Below is generated by plot.py at 2018-01-30 23:23:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.06 Mbit/s
95th percentile per-packet one-way delay: 195.463 ms
Loss rate: 7.28%
-- Flow 1:
Average throughput: 354.06 Mbit/s
95th percentile per-packet one-way delay: 195.463 ms
Loss rate: 7.28%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-30 18:04:52

End at: 2018-01-30 18:05:22

Below is generated by plot.py at 2018-01-30 23:24:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.12 Mbit/s

95th percentile per-packet one-way delay: 214.260 ms

Loss rate: 8.30%

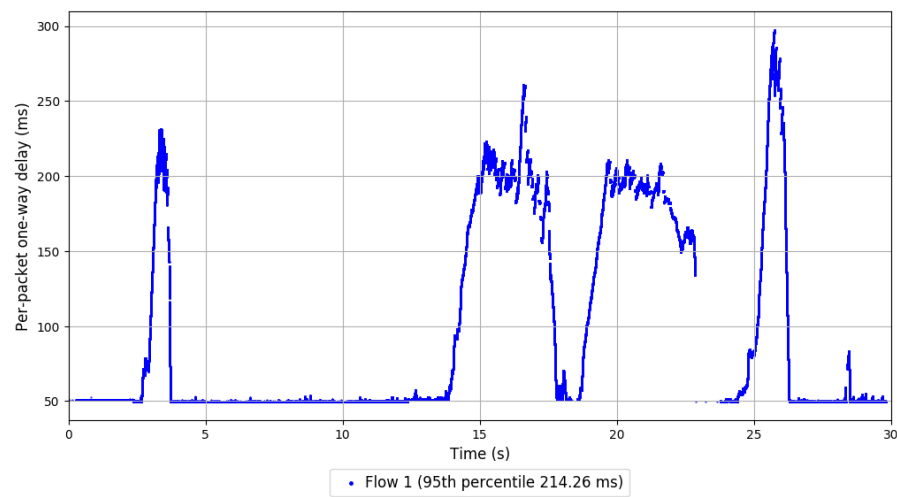
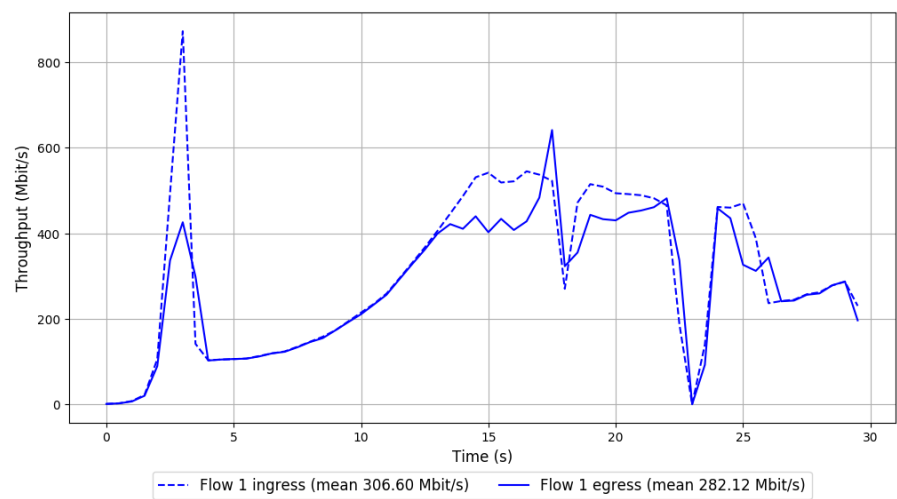
-- Flow 1:

Average throughput: 282.12 Mbit/s

95th percentile per-packet one-way delay: 214.260 ms

Loss rate: 8.30%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-30 18:18:48

End at: 2018-01-30 18:19:18

Below is generated by plot.py at 2018-01-30 23:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.84 Mbit/s

95th percentile per-packet one-way delay: 209.264 ms

Loss rate: 5.46%

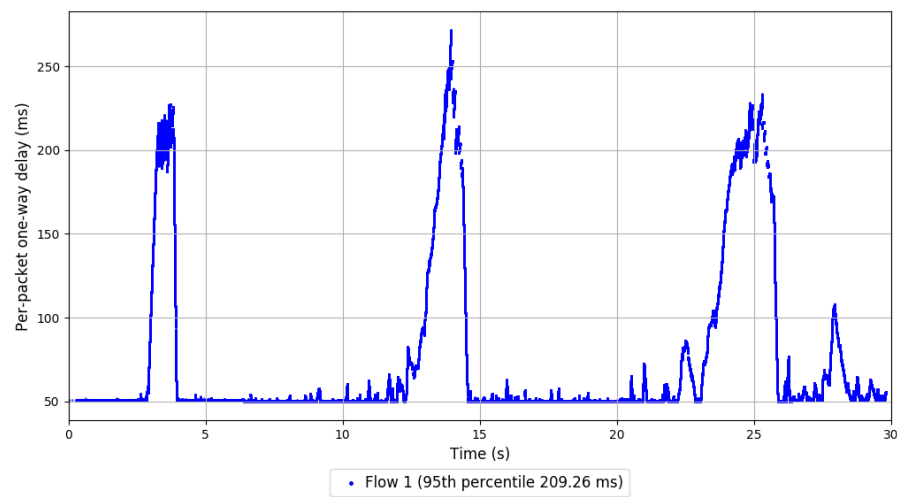
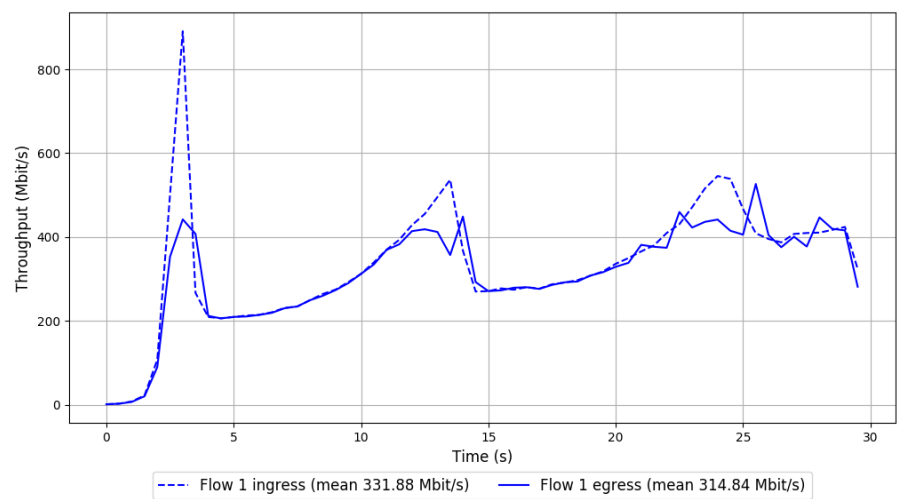
-- Flow 1:

Average throughput: 314.84 Mbit/s

95th percentile per-packet one-way delay: 209.264 ms

Loss rate: 5.46%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-30 18:32:36

End at: 2018-01-30 18:33:06

Below is generated by plot.py at 2018-01-30 23:26:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.52 Mbit/s

95th percentile per-packet one-way delay: 197.036 ms

Loss rate: 3.67%

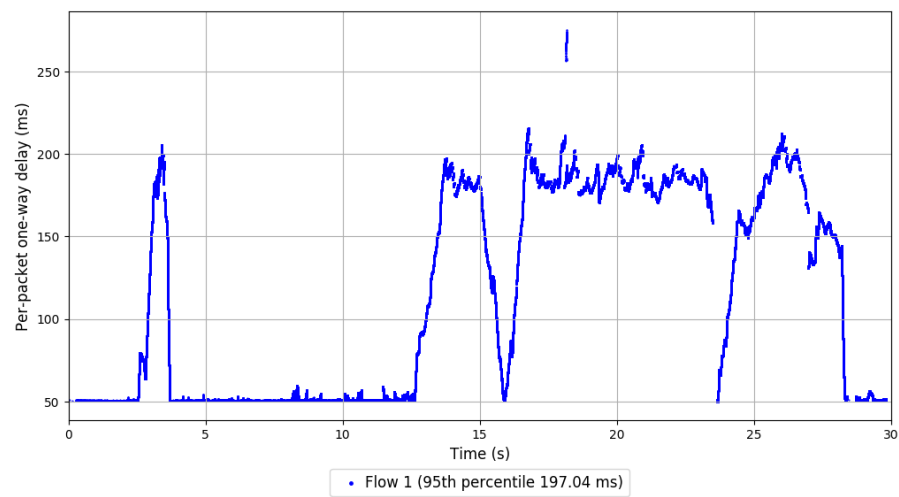
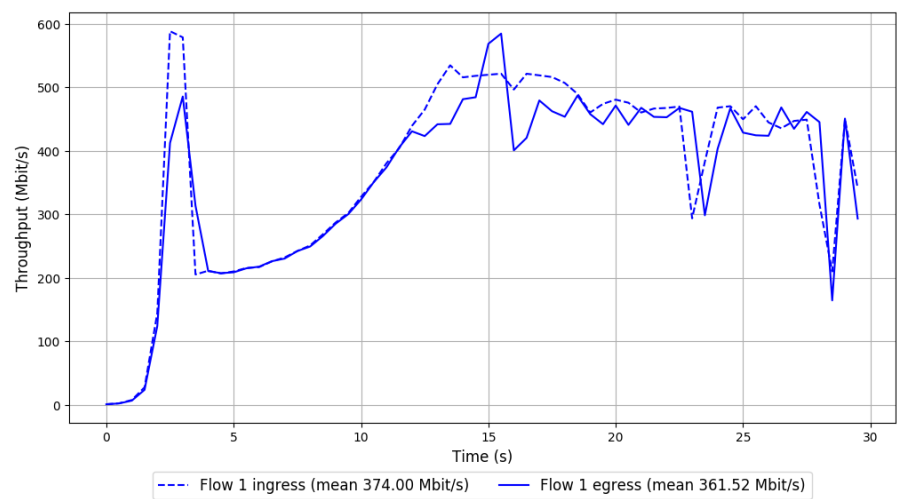
-- Flow 1:

Average throughput: 361.52 Mbit/s

95th percentile per-packet one-way delay: 197.036 ms

Loss rate: 3.67%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-30 18:46:36

End at: 2018-01-30 18:47:06

Below is generated by plot.py at 2018-01-30 23:27:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.19 Mbit/s

95th percentile per-packet one-way delay: 206.470 ms

Loss rate: 11.16%

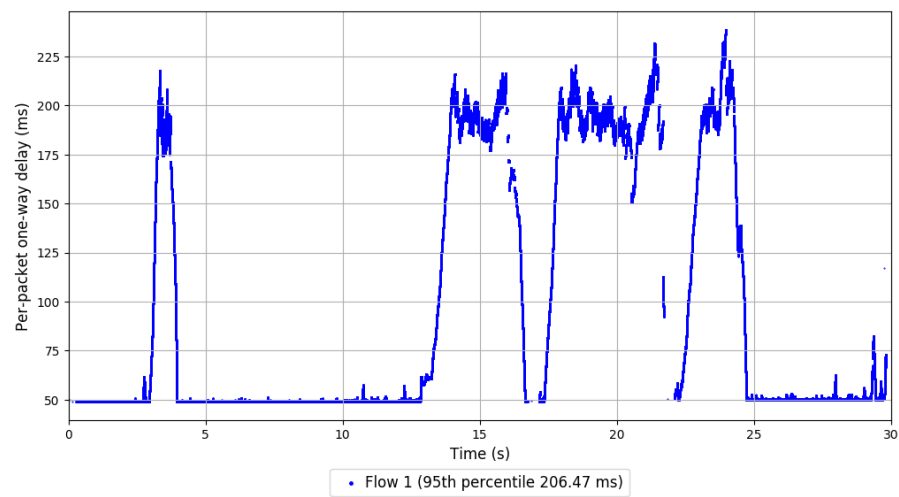
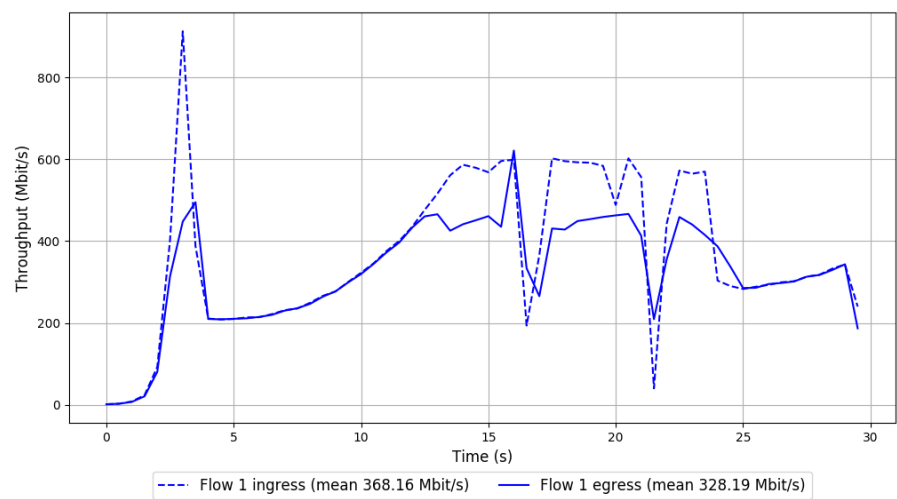
-- Flow 1:

Average throughput: 328.19 Mbit/s

95th percentile per-packet one-way delay: 206.470 ms

Loss rate: 11.16%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-30 19:00:29

End at: 2018-01-30 19:00:59

Below is generated by plot.py at 2018-01-30 23:27:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.18 Mbit/s

95th percentile per-packet one-way delay: 209.169 ms

Loss rate: 8.49%

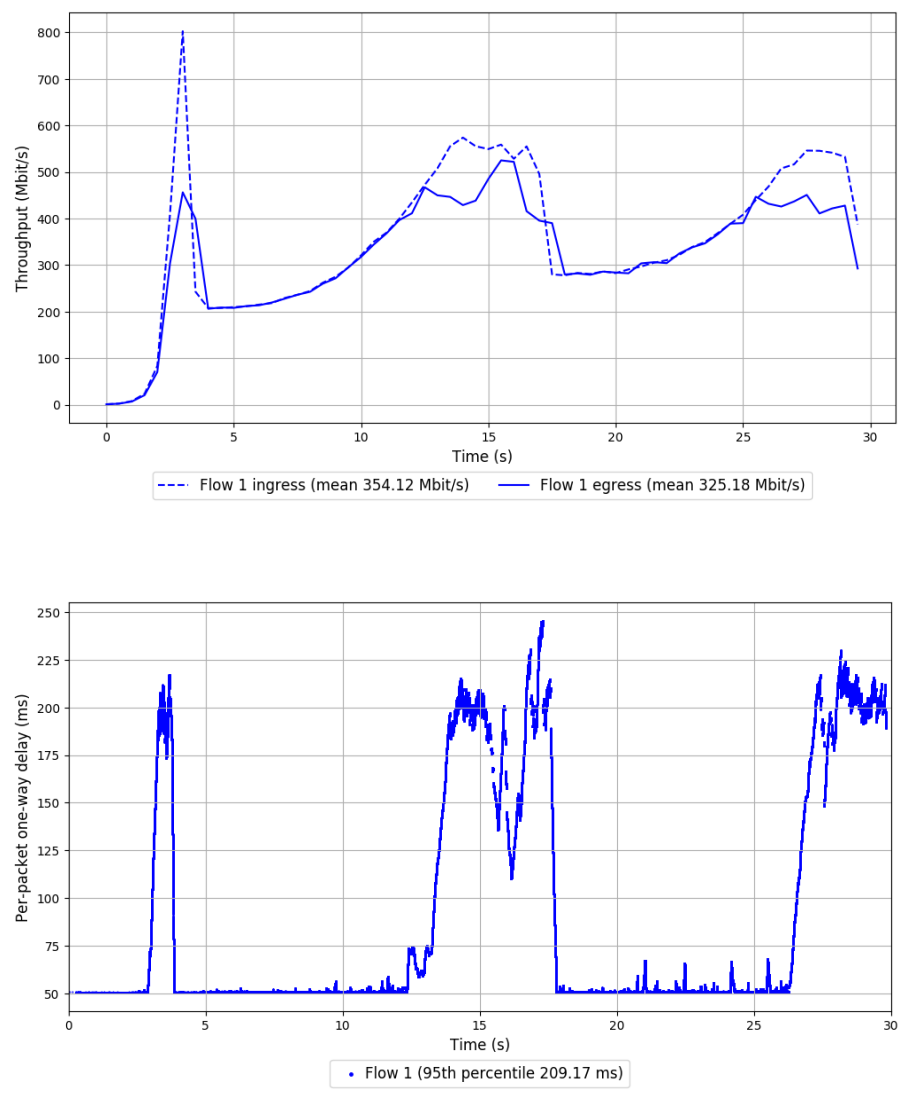
-- Flow 1:

Average throughput: 325.18 Mbit/s

95th percentile per-packet one-way delay: 209.169 ms

Loss rate: 8.49%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-30 19:14:50

End at: 2018-01-30 19:15:20

Below is generated by plot.py at 2018-01-30 23:28:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.70 Mbit/s

95th percentile per-packet one-way delay: 205.895 ms

Loss rate: 5.91%

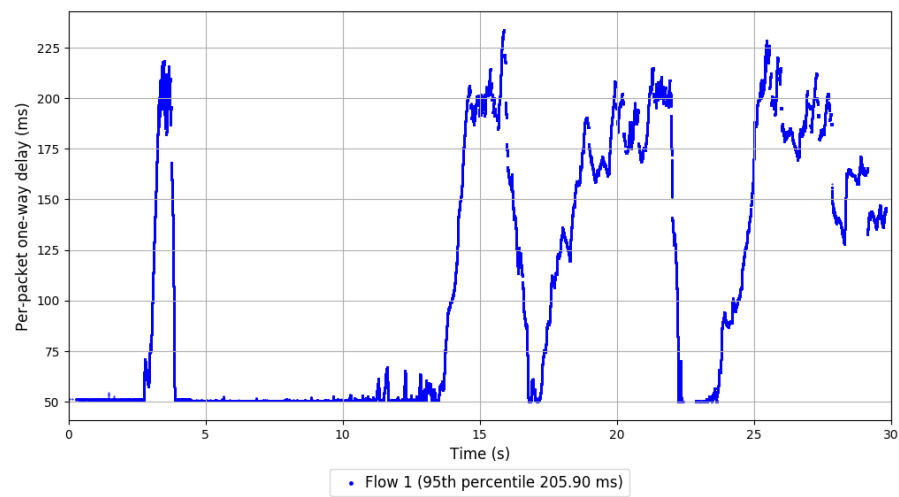
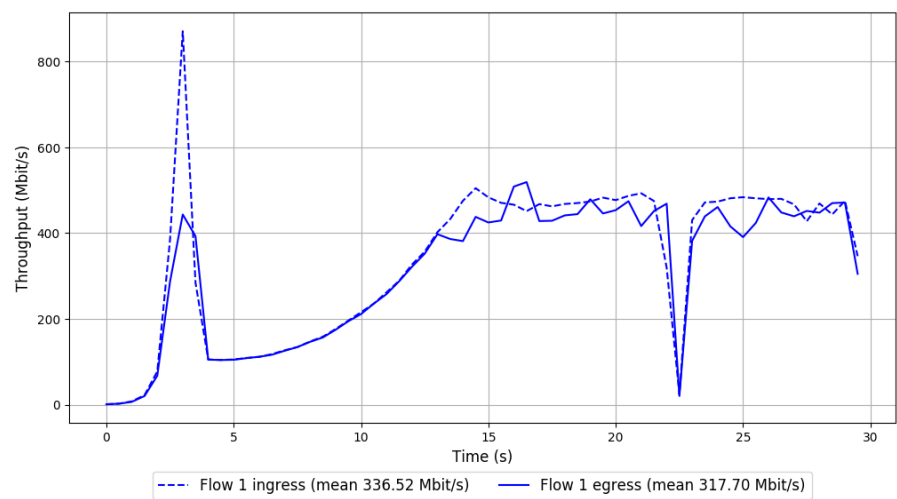
-- Flow 1:

Average throughput: 317.70 Mbit/s

95th percentile per-packet one-way delay: 205.895 ms

Loss rate: 5.91%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-30 19:28:47

End at: 2018-01-30 19:29:17

Below is generated by plot.py at 2018-01-30 23:28:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.25 Mbit/s

95th percentile per-packet one-way delay: 209.065 ms

Loss rate: 8.68%

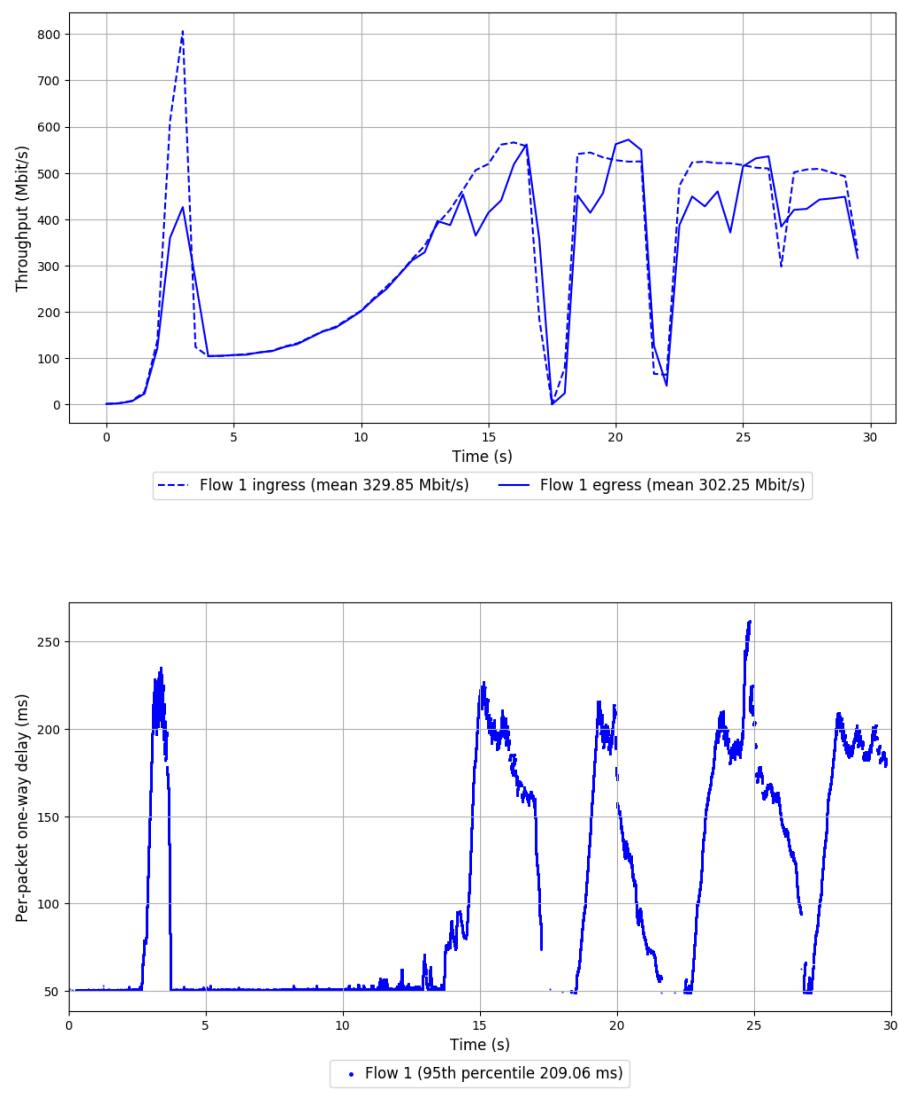
-- Flow 1:

Average throughput: 302.25 Mbit/s

95th percentile per-packet one-way delay: 209.065 ms

Loss rate: 8.68%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-30 19:42:38

End at: 2018-01-30 19:43:08

Below is generated by plot.py at 2018-01-30 23:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.70 Mbit/s

95th percentile per-packet one-way delay: 213.213 ms

Loss rate: 7.91%

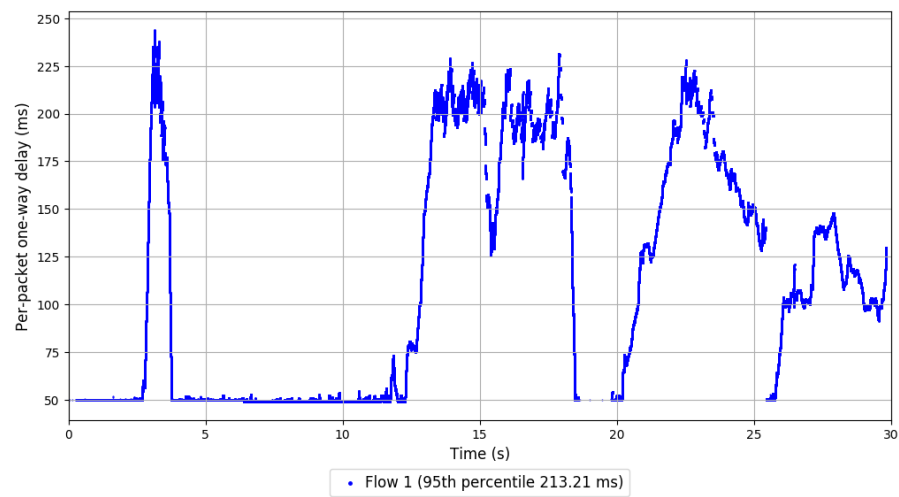
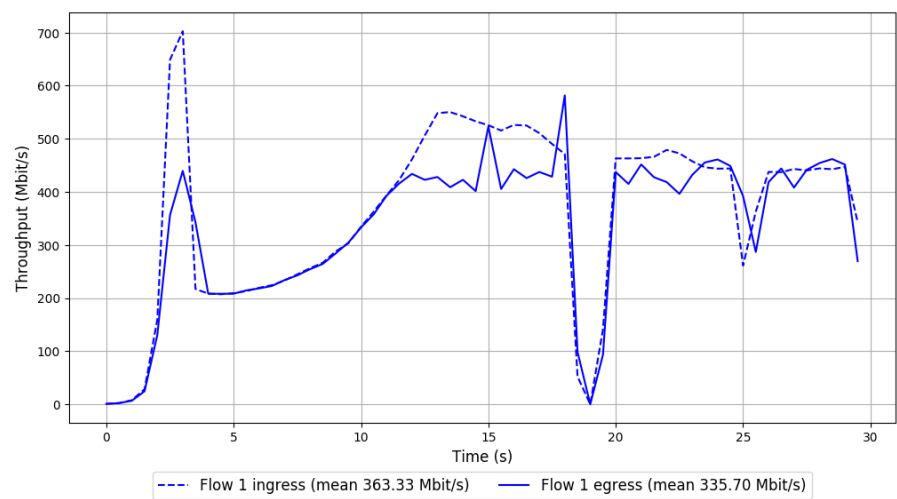
-- Flow 1:

Average throughput: 335.70 Mbit/s

95th percentile per-packet one-way delay: 213.213 ms

Loss rate: 7.91%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-30 19:56:46

End at: 2018-01-30 19:57:16

Below is generated by plot.py at 2018-01-30 23:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.08 Mbit/s

95th percentile per-packet one-way delay: 228.890 ms

Loss rate: 8.67%

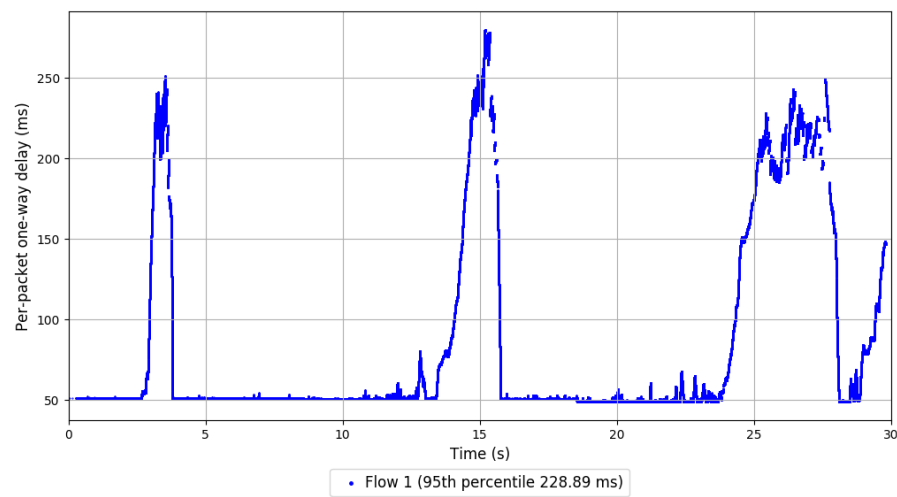
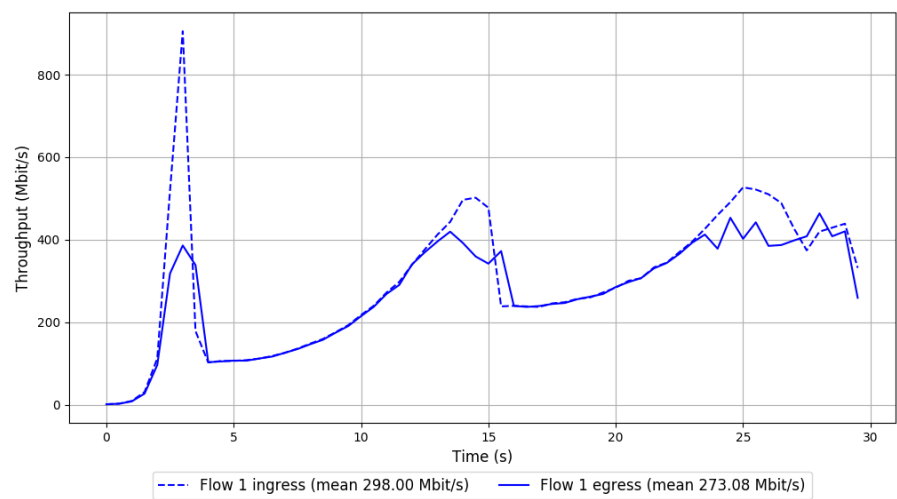
-- Flow 1:

Average throughput: 273.08 Mbit/s

95th percentile per-packet one-way delay: 228.890 ms

Loss rate: 8.67%

Run 10: Report of Vivace-loss — Data Link

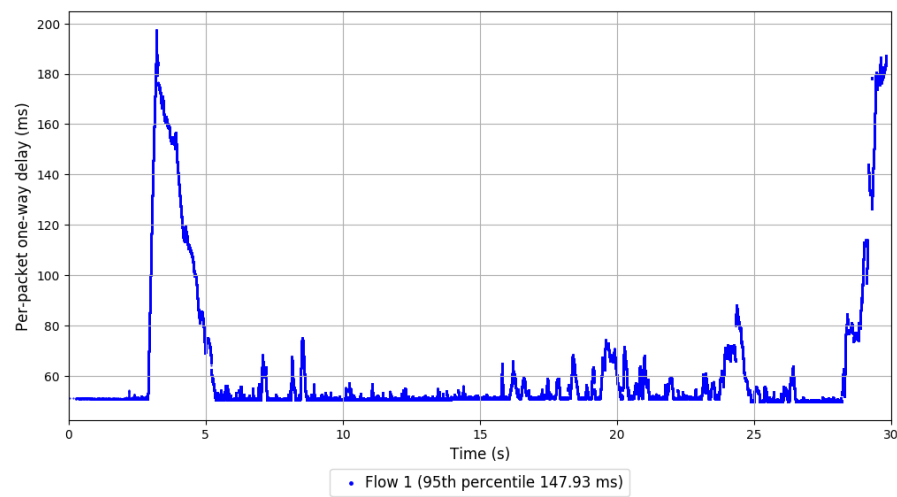
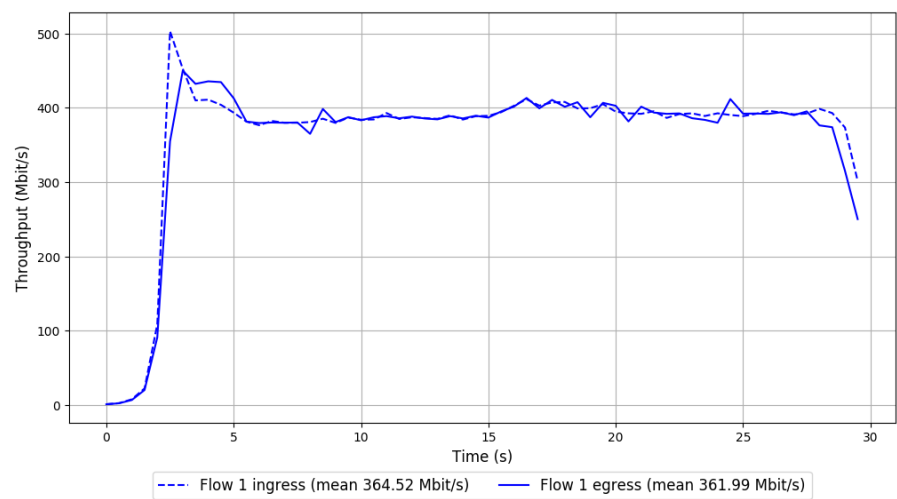


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-30 17:43:30
End at: 2018-01-30 17:44:00

# Below is generated by plot.py at 2018-01-30 23:32:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.99 Mbit/s
95th percentile per-packet one-way delay: 147.932 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 361.99 Mbit/s
95th percentile per-packet one-way delay: 147.932 ms
Loss rate: 1.04%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-30 17:57:23

End at: 2018-01-30 17:57:53

Below is generated by plot.py at 2018-01-30 23:33:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.63 Mbit/s

95th percentile per-packet one-way delay: 95.203 ms

Loss rate: 0.52%

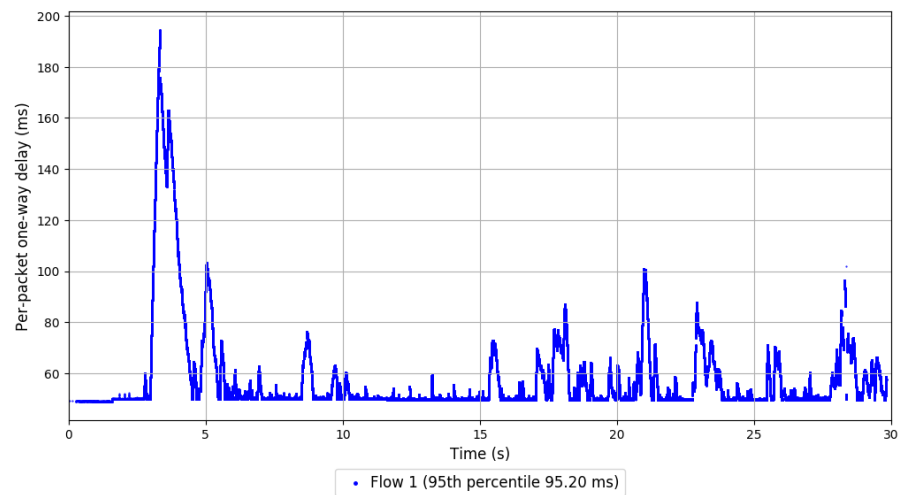
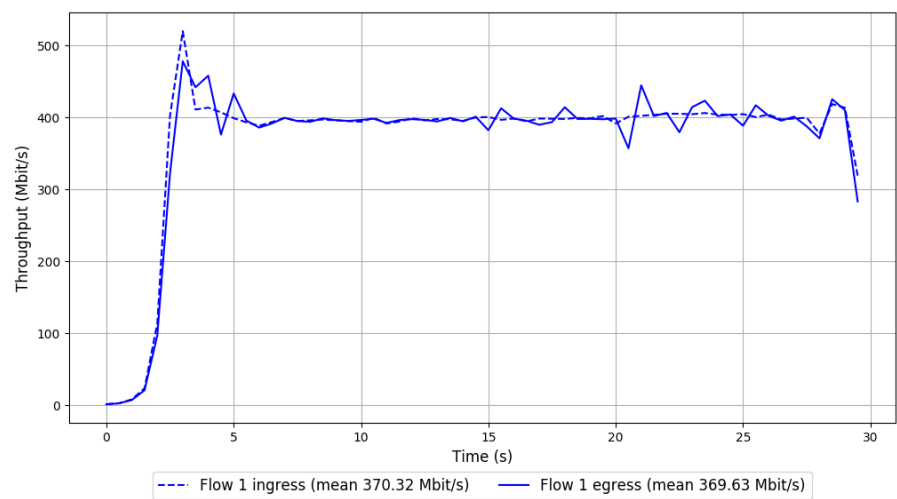
-- Flow 1:

Average throughput: 369.63 Mbit/s

95th percentile per-packet one-way delay: 95.203 ms

Loss rate: 0.52%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-30 18:11:24

End at: 2018-01-30 18:11:54

Below is generated by plot.py at 2018-01-30 23:33:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.96 Mbit/s

95th percentile per-packet one-way delay: 64.193 ms

Loss rate: 0.90%

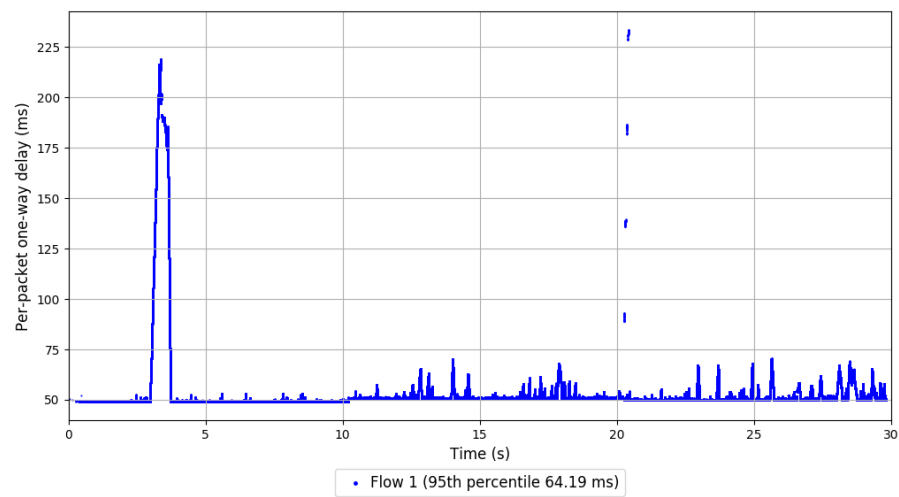
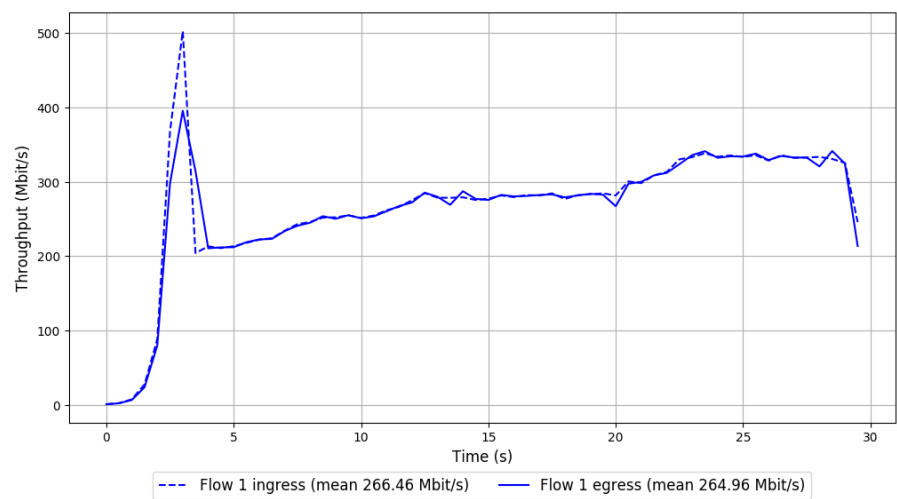
-- Flow 1:

Average throughput: 264.96 Mbit/s

95th percentile per-packet one-way delay: 64.193 ms

Loss rate: 0.90%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-30 18:25:15

End at: 2018-01-30 18:25:45

Below is generated by plot.py at 2018-01-30 23:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.41 Mbit/s

95th percentile per-packet one-way delay: 102.755 ms

Loss rate: 0.59%

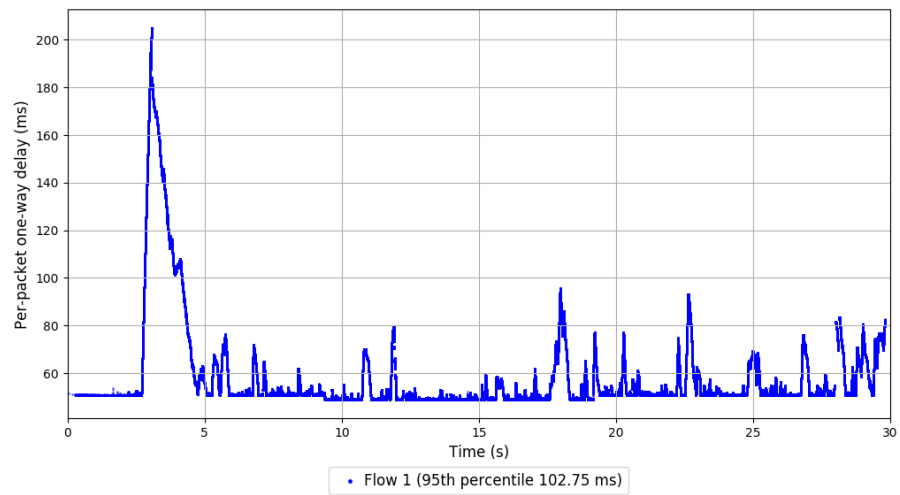
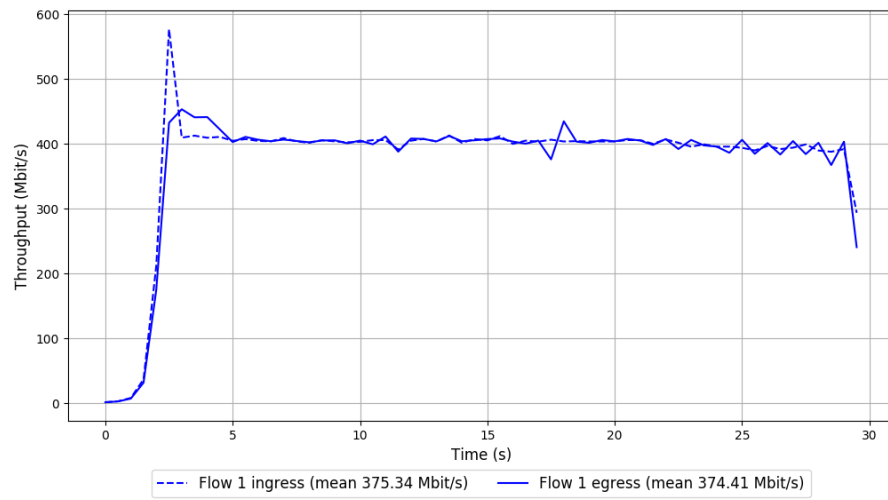
-- Flow 1:

Average throughput: 374.41 Mbit/s

95th percentile per-packet one-way delay: 102.755 ms

Loss rate: 0.59%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-30 18:39:08

End at: 2018-01-30 18:39:38

Below is generated by plot.py at 2018-01-30 23:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.72 Mbit/s

95th percentile per-packet one-way delay: 141.984 ms

Loss rate: 0.53%

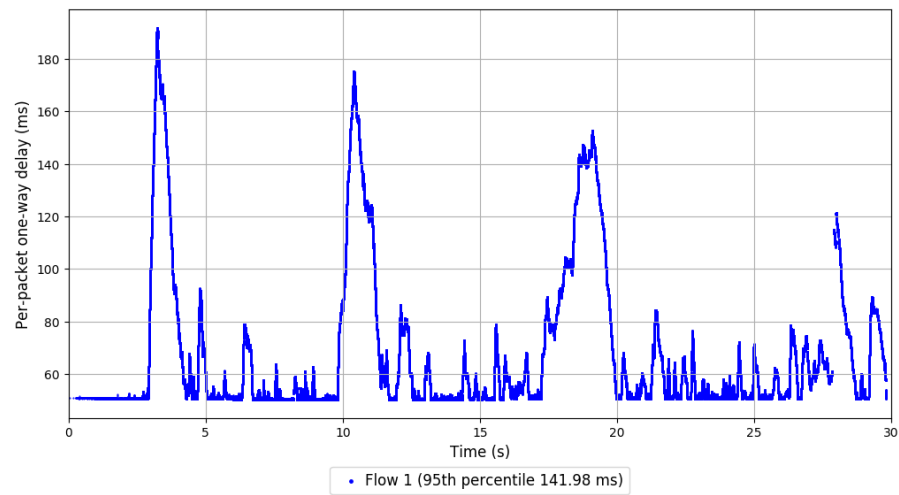
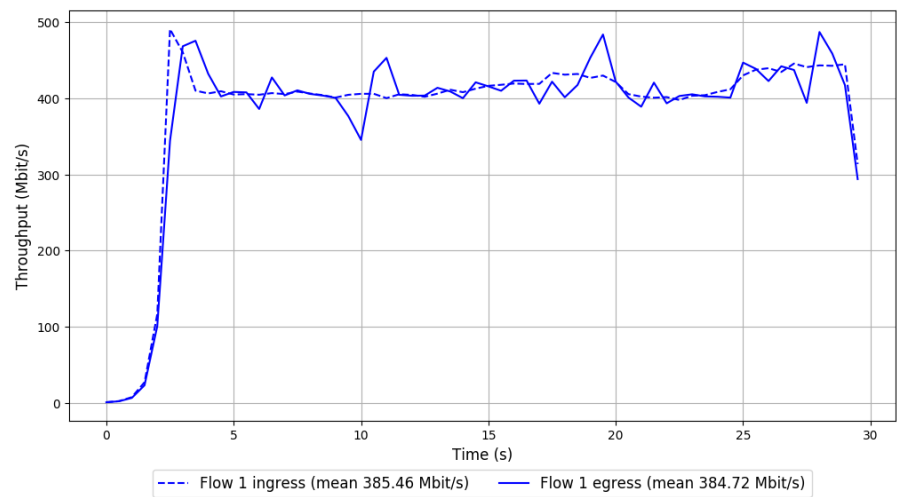
-- Flow 1:

Average throughput: 384.72 Mbit/s

95th percentile per-packet one-way delay: 141.984 ms

Loss rate: 0.53%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-30 18:53:07

End at: 2018-01-30 18:53:37

Below is generated by plot.py at 2018-01-30 23:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.01 Mbit/s

95th percentile per-packet one-way delay: 202.863 ms

Loss rate: 1.26%

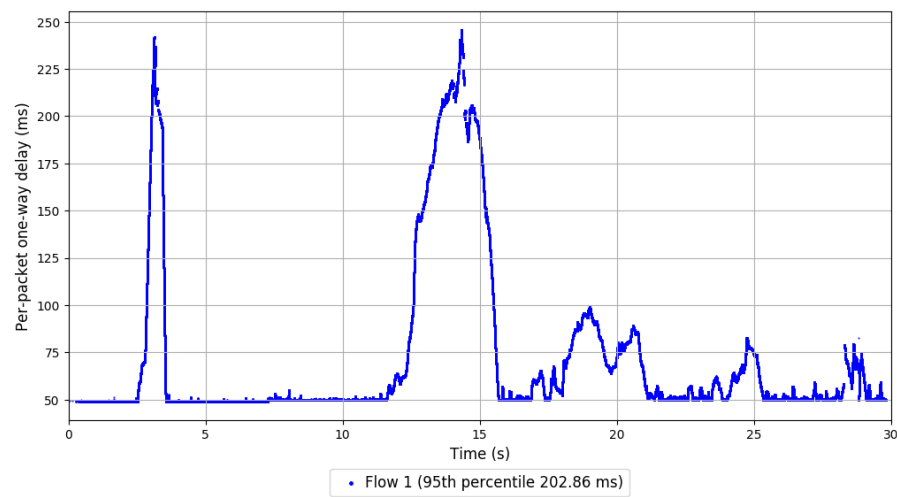
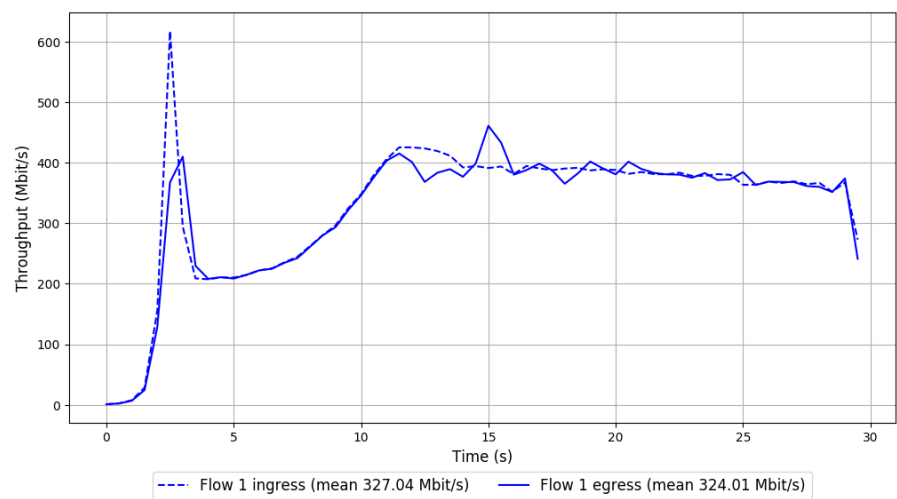
-- Flow 1:

Average throughput: 324.01 Mbit/s

95th percentile per-packet one-way delay: 202.863 ms

Loss rate: 1.26%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-30 19:07:04

End at: 2018-01-30 19:07:34

Below is generated by plot.py at 2018-01-30 23:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.57 Mbit/s

95th percentile per-packet one-way delay: 99.421 ms

Loss rate: 0.68%

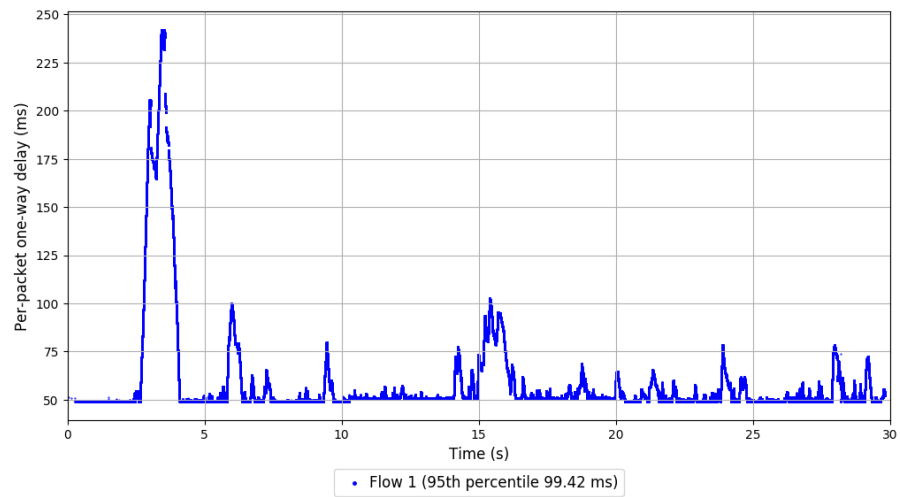
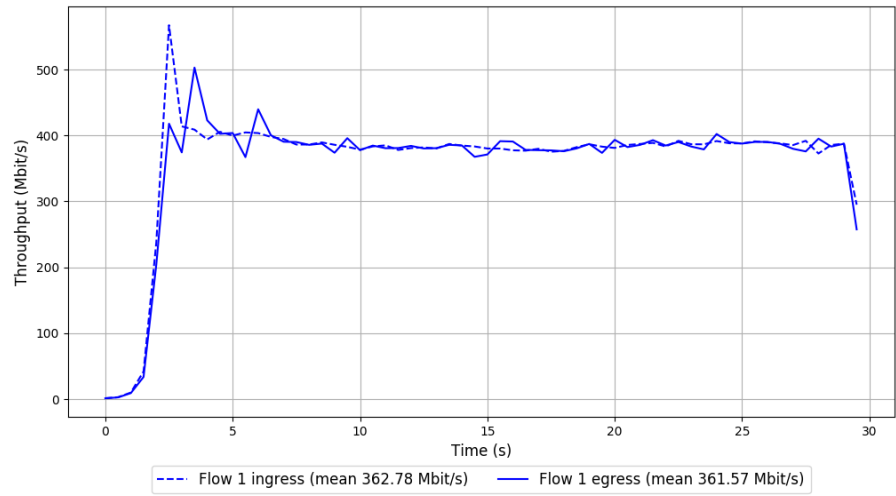
-- Flow 1:

Average throughput: 361.57 Mbit/s

95th percentile per-packet one-way delay: 99.421 ms

Loss rate: 0.68%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-30 19:21:17

End at: 2018-01-30 19:21:47

Below is generated by plot.py at 2018-01-30 23:36:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.20 Mbit/s

95th percentile per-packet one-way delay: 143.883 ms

Loss rate: 0.49%

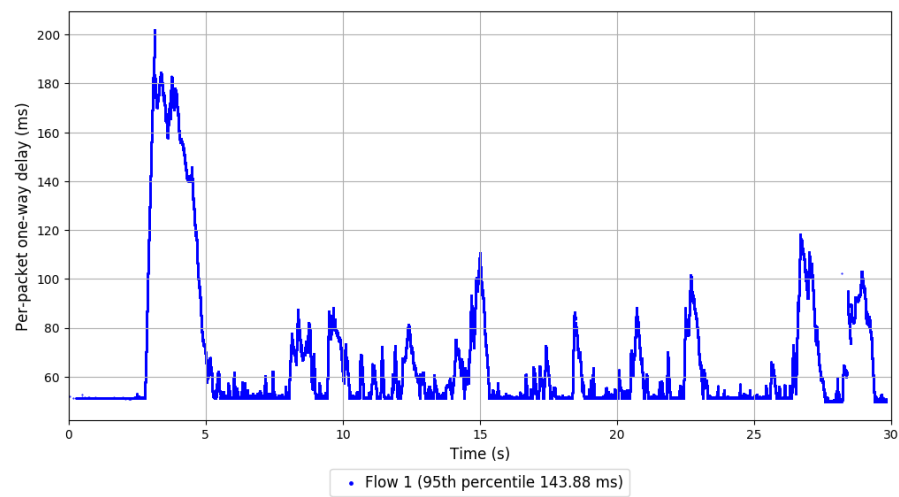
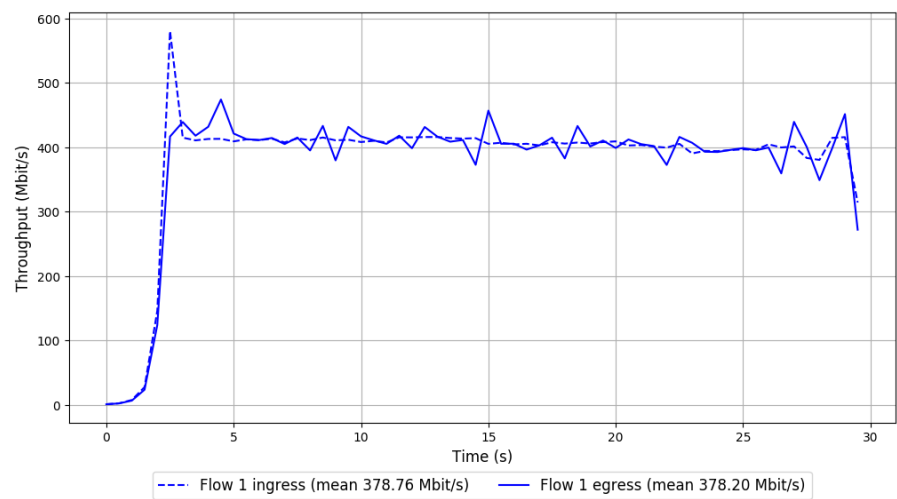
-- Flow 1:

Average throughput: 378.20 Mbit/s

95th percentile per-packet one-way delay: 143.883 ms

Loss rate: 0.49%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-30 19:35:09

End at: 2018-01-30 19:35:39

Below is generated by plot.py at 2018-01-30 23:36:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.75 Mbit/s

95th percentile per-packet one-way delay: 148.892 ms

Loss rate: 0.78%

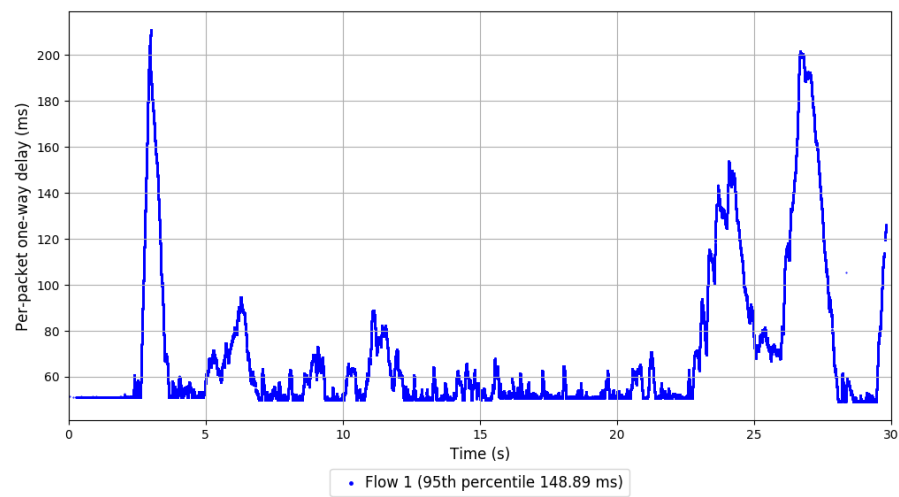
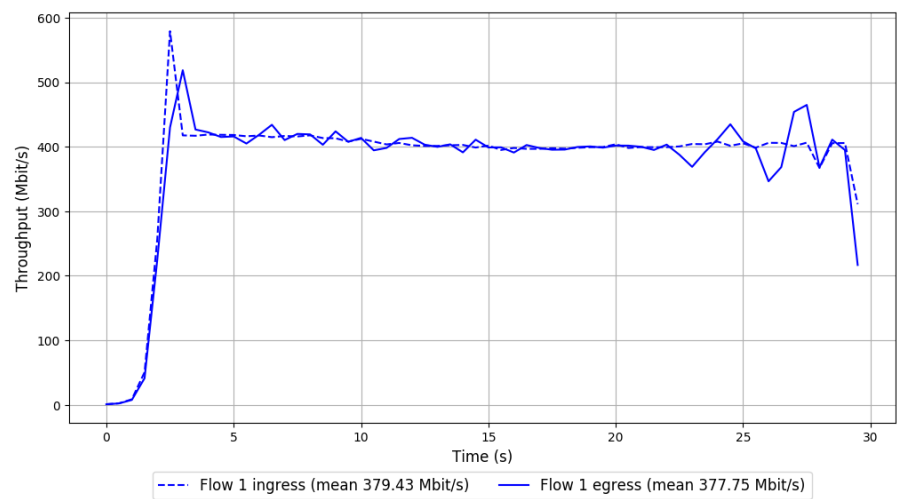
-- Flow 1:

Average throughput: 377.75 Mbit/s

95th percentile per-packet one-way delay: 148.892 ms

Loss rate: 0.78%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-30 19:49:12
End at: 2018-01-30 19:49:42

# Below is generated by plot.py at 2018-01-30 23:36:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.32 Mbit/s
95th percentile per-packet one-way delay: 63.073 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 320.32 Mbit/s
95th percentile per-packet one-way delay: 63.073 ms
Loss rate: 0.41%
```

Run 10: Report of Vivace-LTE — Data Link

