

Pantheon Report

Generated at 2017-09-21 18:51:03 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

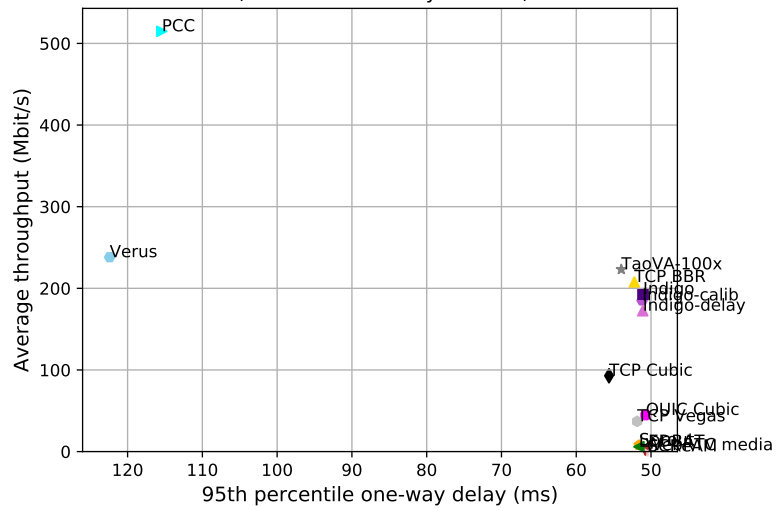
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

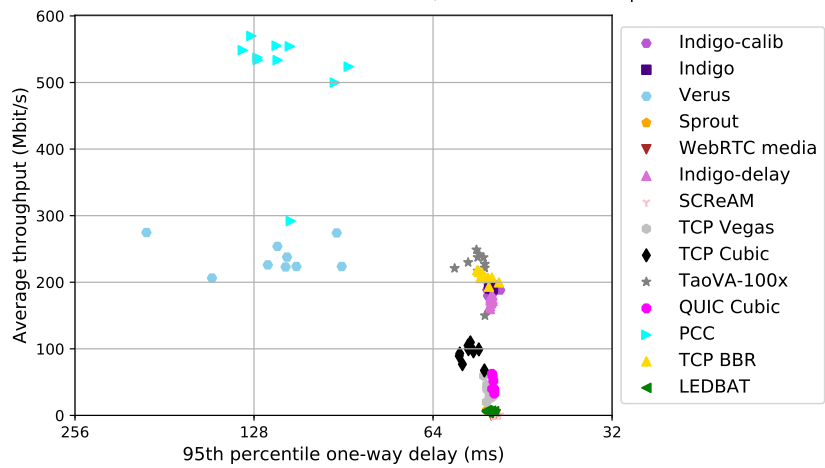
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/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 per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	207.73	52.23	0.39
TCP Cubic	9	92.90	55.62	0.25
LEDBAT	10	5.96	51.62	0.77
PCC	10	514.83	115.42	1.35
QUIC Cubic	9	44.91	50.69	0.60
SCReAM	9	0.22	50.47	0.38
WebRTC media	7	1.72	50.75	0.39
Sprout	10	7.92	51.60	0.47
TaoVA-100x	10	223.20	53.97	0.39
TCP Vegas	7	37.05	51.85	0.29
Verus	9	238.13	122.40	2.52
Indigo	10	192.82	51.07	0.35
Indigo-calib	10	185.17	51.19	0.33
Indigo-delay	10	172.57	51.11	0.36

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 14:31:37

End at: 2017-09-21 14:32:07

Below is generated by plot.py at 2017-09-21 18:03:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.83 Mbit/s

95th percentile per-packet one-way delay: 49.586 ms

Loss rate: 0.40%

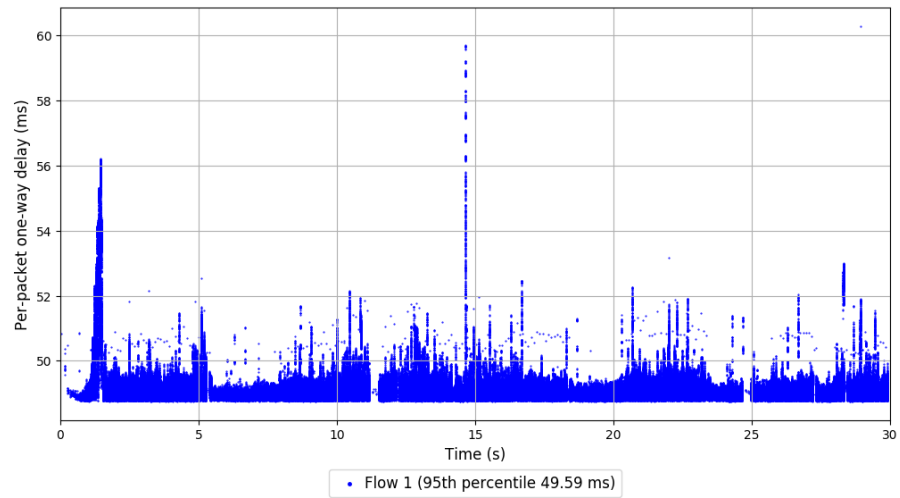
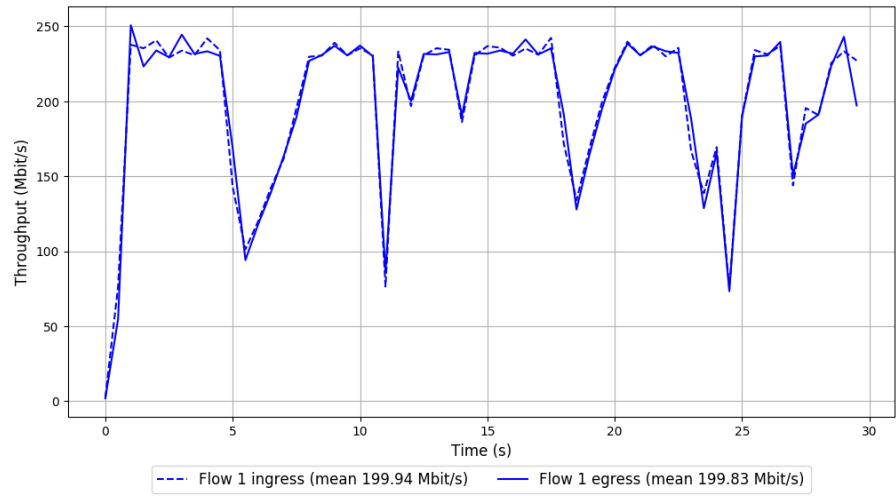
-- Flow 1:

Average throughput: 199.83 Mbit/s

95th percentile per-packet one-way delay: 49.586 ms

Loss rate: 0.40%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 14:42:04

End at: 2017-09-21 14:42:34

Below is generated by plot.py at 2017-09-21 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.09 Mbit/s

95th percentile per-packet one-way delay: 53.938 ms

Loss rate: 0.35%

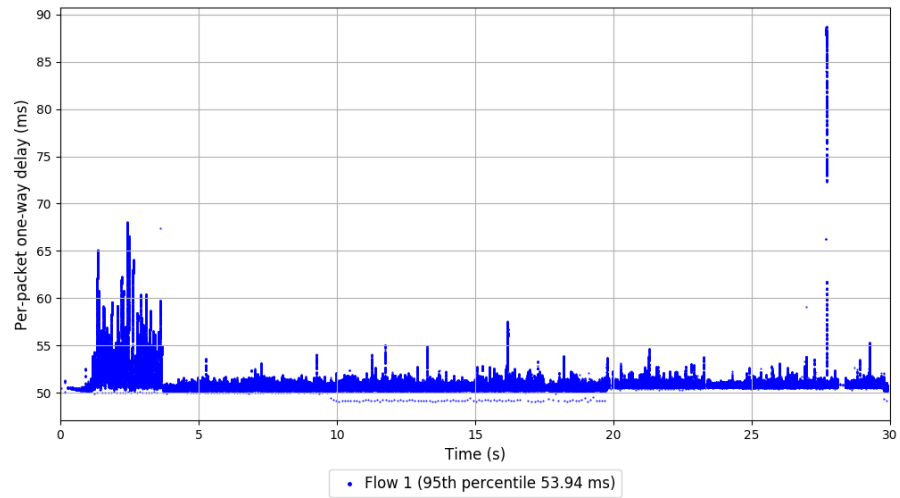
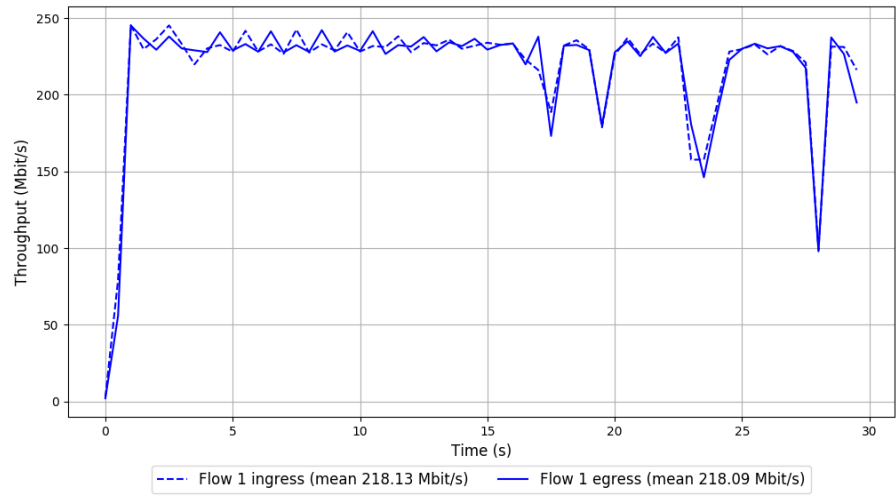
-- Flow 1:

Average throughput: 218.09 Mbit/s

95th percentile per-packet one-way delay: 53.938 ms

Loss rate: 0.35%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 14:52:50

End at: 2017-09-21 14:53:20

Below is generated by plot.py at 2017-09-21 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.93 Mbit/s

95th percentile per-packet one-way delay: 52.427 ms

Loss rate: 0.37%

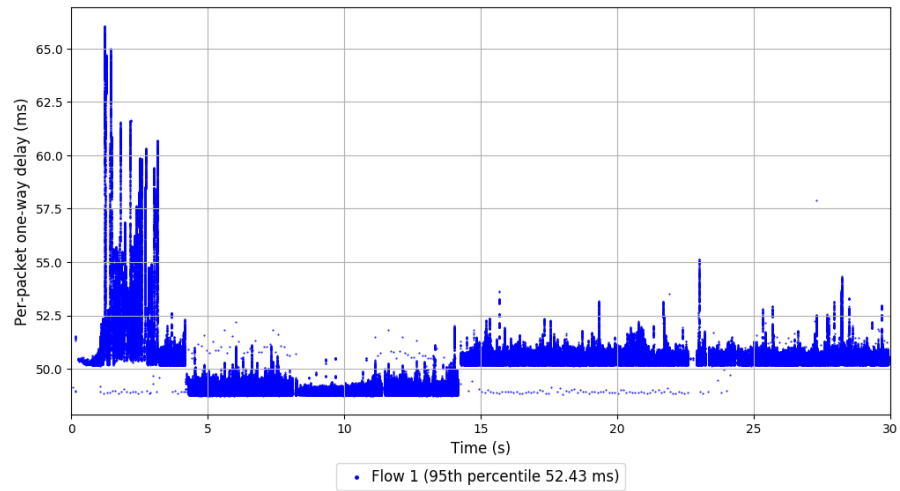
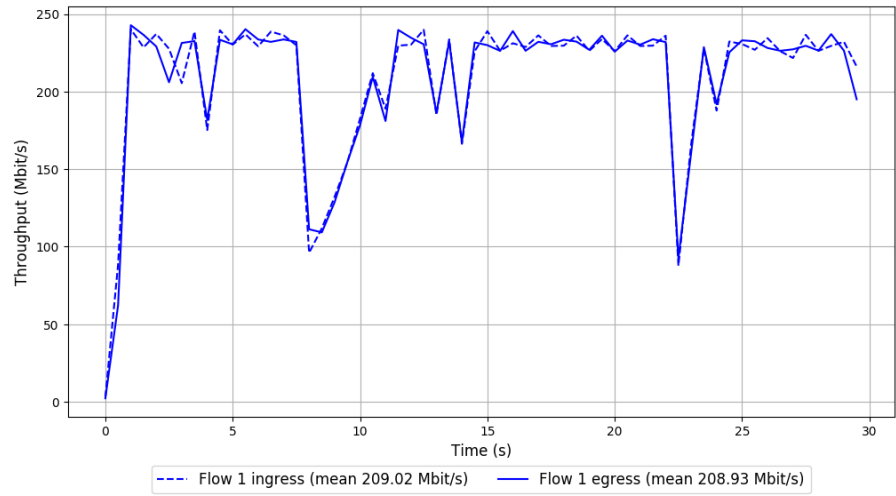
-- Flow 1:

Average throughput: 208.93 Mbit/s

95th percentile per-packet one-way delay: 52.427 ms

Loss rate: 0.37%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 15:03:28

End at: 2017-09-21 15:03:58

Below is generated by plot.py at 2017-09-21 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.51 Mbit/s

95th percentile per-packet one-way delay: 52.987 ms

Loss rate: 0.42%

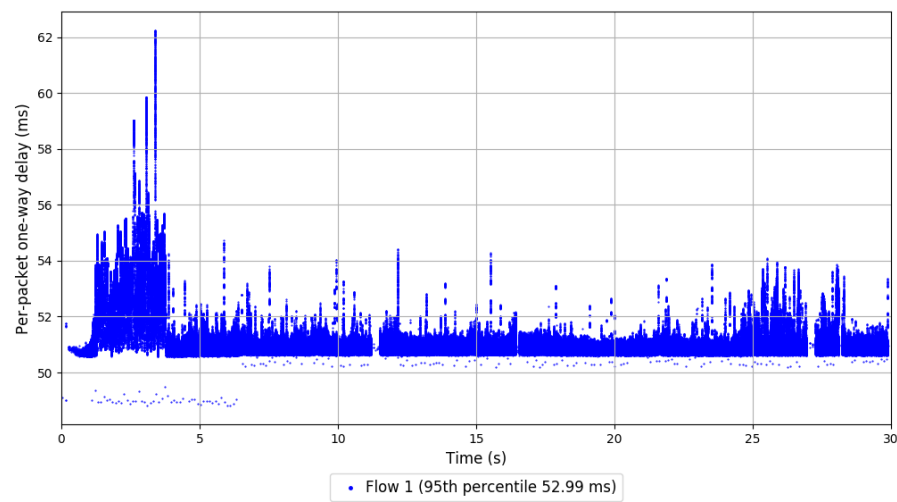
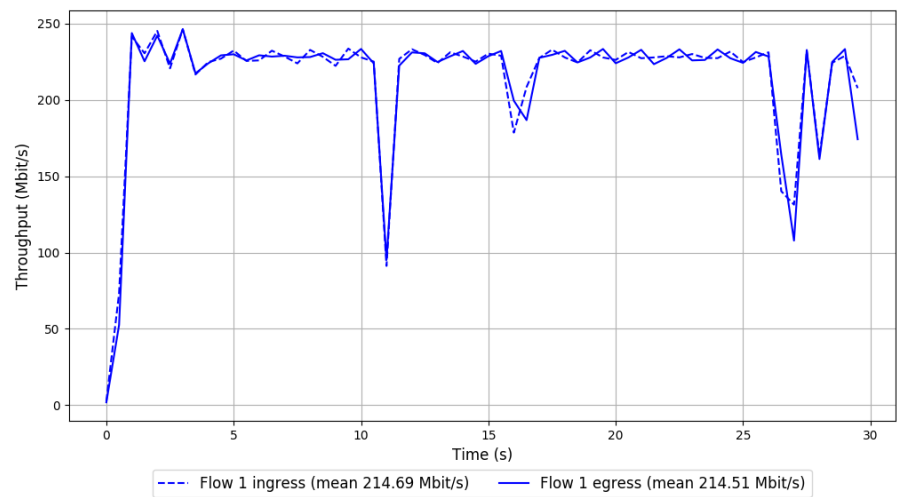
-- Flow 1:

Average throughput: 214.51 Mbit/s

95th percentile per-packet one-way delay: 52.987 ms

Loss rate: 0.42%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 15:14:12

End at: 2017-09-21 15:14:42

Below is generated by plot.py at 2017-09-21 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.89 Mbit/s

95th percentile per-packet one-way delay: 51.770 ms

Loss rate: 0.32%

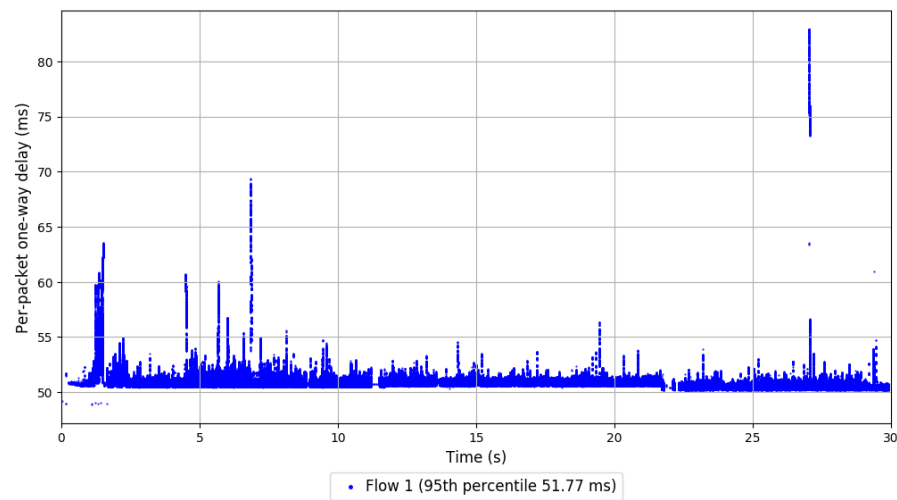
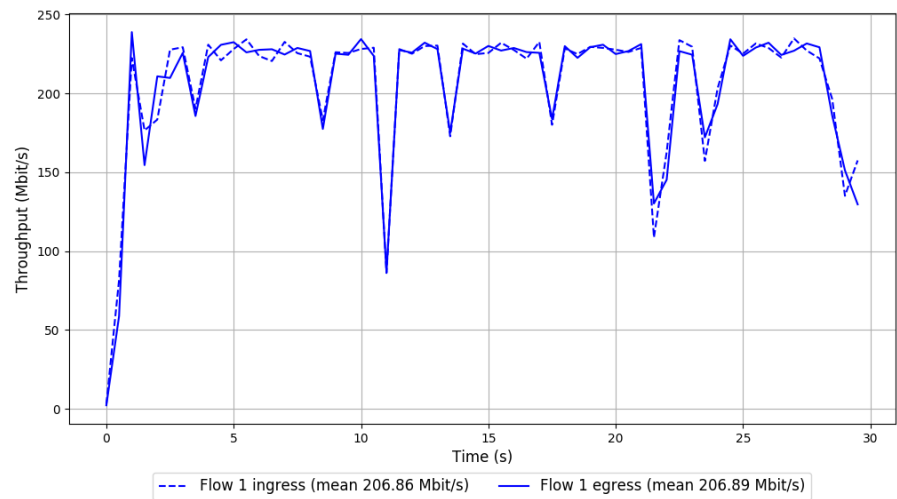
-- Flow 1:

Average throughput: 206.89 Mbit/s

95th percentile per-packet one-way delay: 51.770 ms

Loss rate: 0.32%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 15:24:36

End at: 2017-09-21 15:25:06

Below is generated by plot.py at 2017-09-21 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.11 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.39%

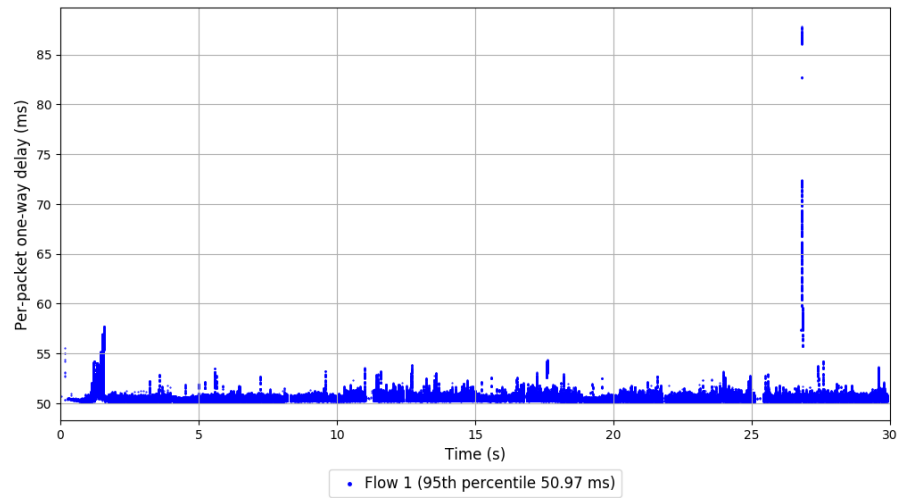
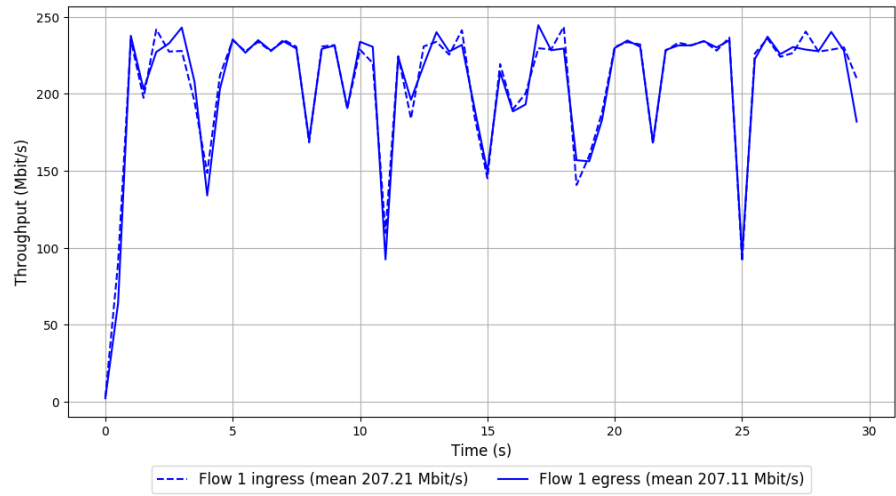
-- Flow 1:

Average throughput: 207.11 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.39%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 15:35:19

End at: 2017-09-21 15:35:49

Below is generated by plot.py at 2017-09-21 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.41 Mbit/s

95th percentile per-packet one-way delay: 52.197 ms

Loss rate: 0.44%

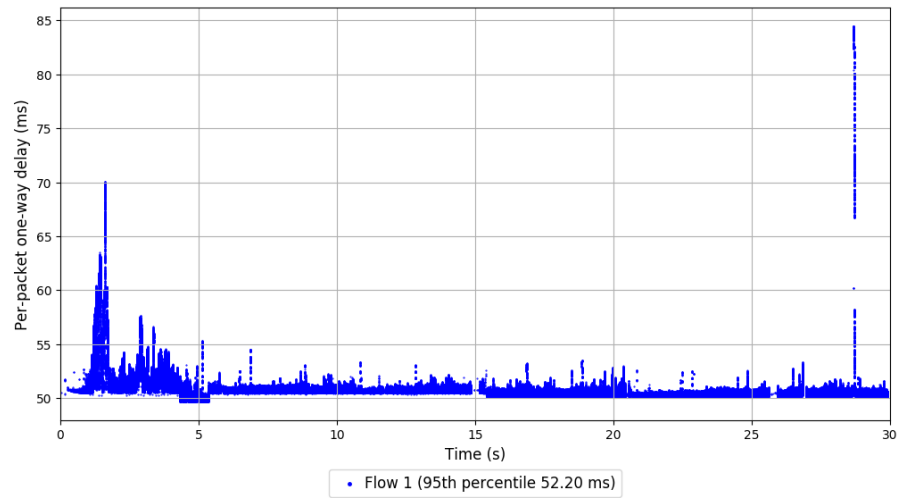
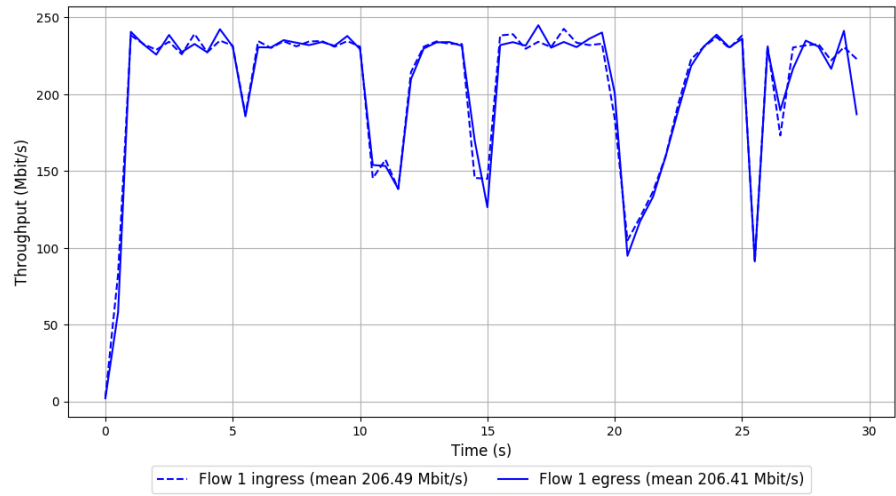
-- Flow 1:

Average throughput: 206.41 Mbit/s

95th percentile per-packet one-way delay: 52.197 ms

Loss rate: 0.44%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 15:45:56

End at: 2017-09-21 15:46:26

Below is generated by plot.py at 2017-09-21 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.80 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.37%

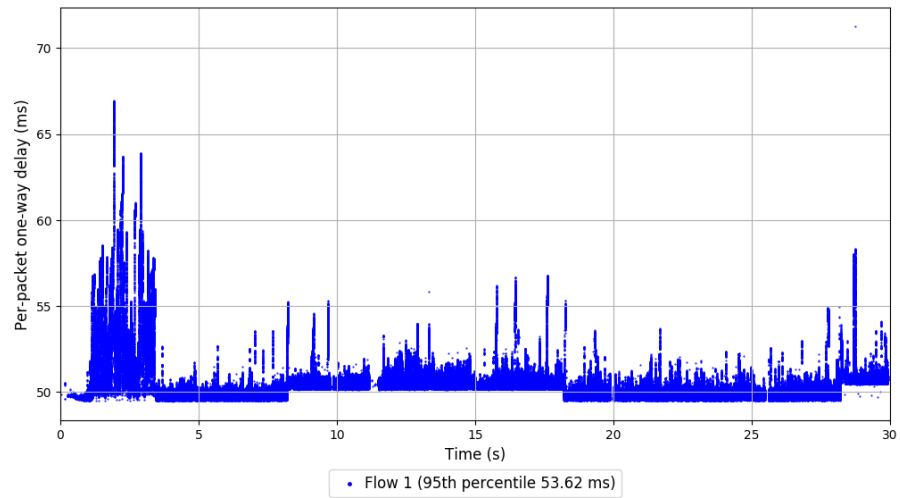
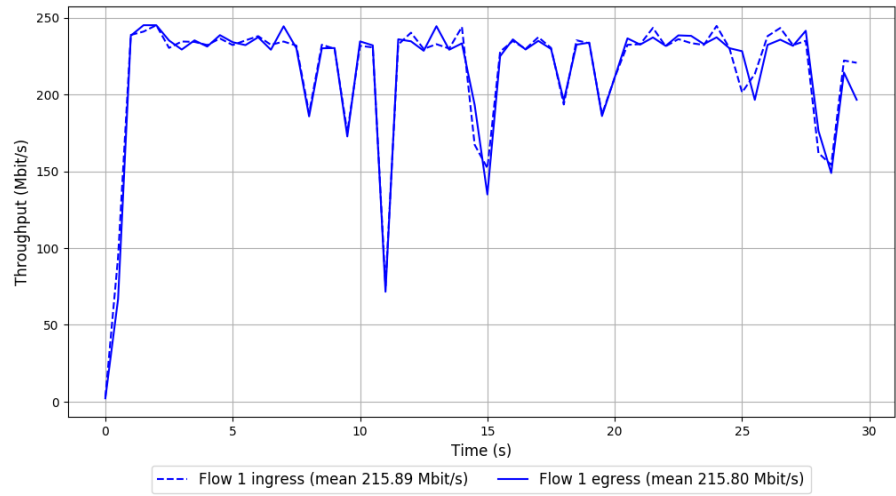
-- Flow 1:

Average throughput: 215.80 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 15:56:41

End at: 2017-09-21 15:57:11

Below is generated by plot.py at 2017-09-21 18:07:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.45 Mbit/s

95th percentile per-packet one-way delay: 51.553 ms

Loss rate: 0.43%

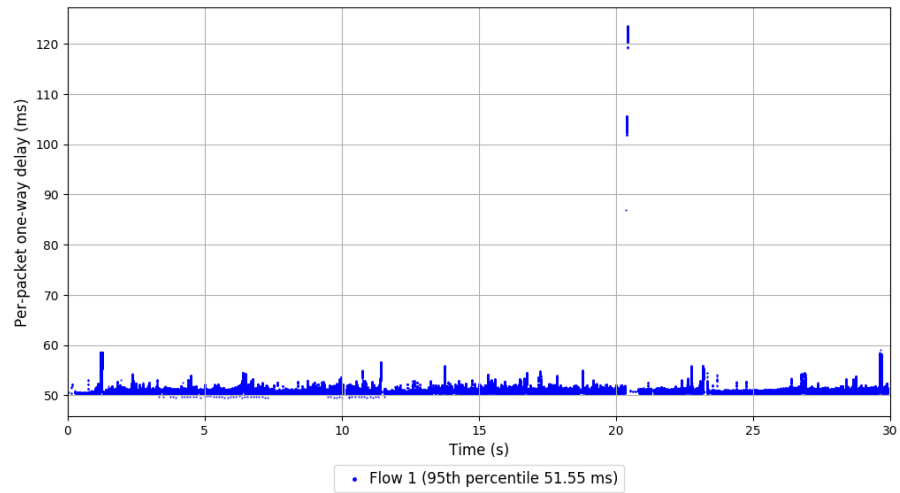
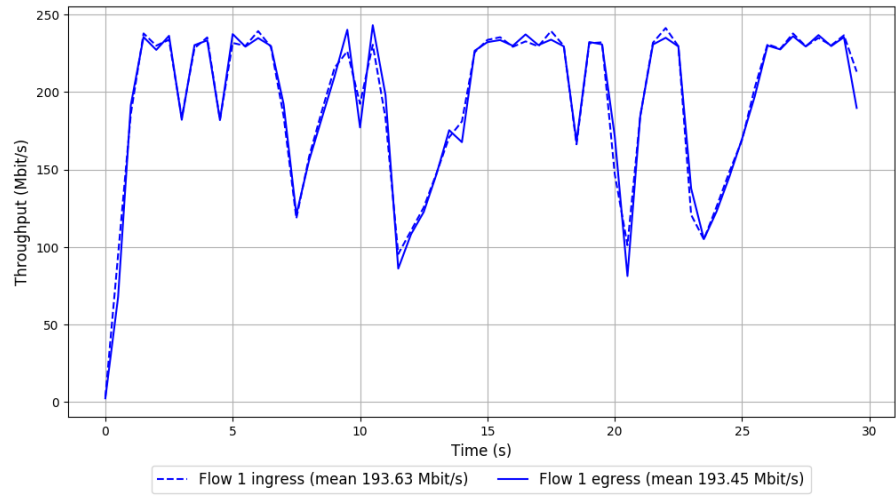
-- Flow 1:

Average throughput: 193.45 Mbit/s

95th percentile per-packet one-way delay: 51.553 ms

Loss rate: 0.43%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 16:07:25

End at: 2017-09-21 16:07:55

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.32 Mbit/s

95th percentile per-packet one-way delay: 53.279 ms

Loss rate: 0.39%

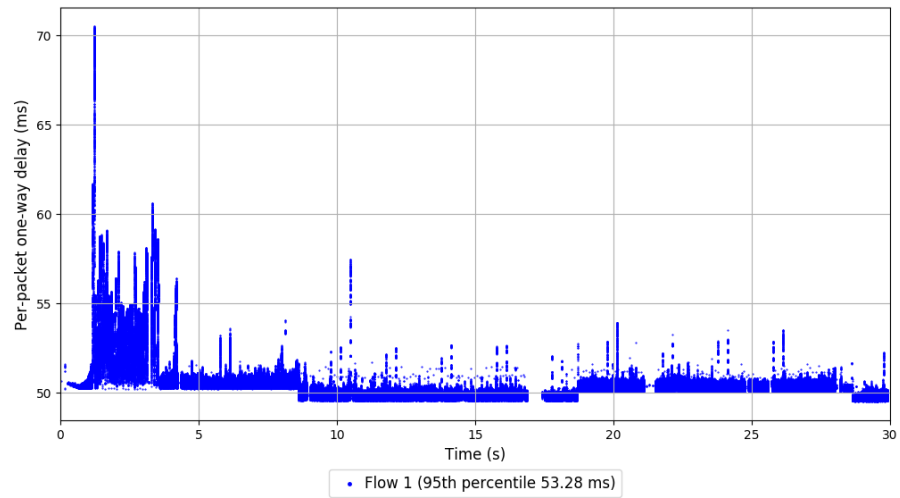
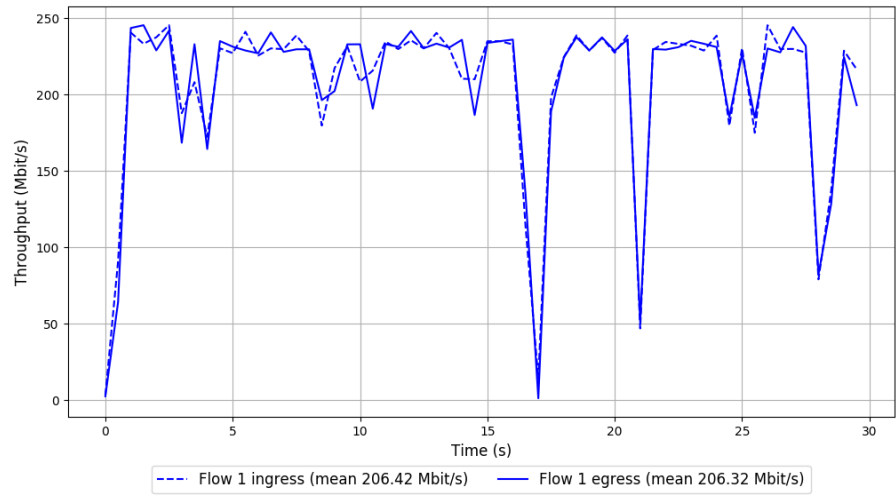
-- Flow 1:

Average throughput: 206.32 Mbit/s

95th percentile per-packet one-way delay: 53.279 ms

Loss rate: 0.39%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 14:25:16

End at: 2017-09-21 14:25:46

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.10 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.21%

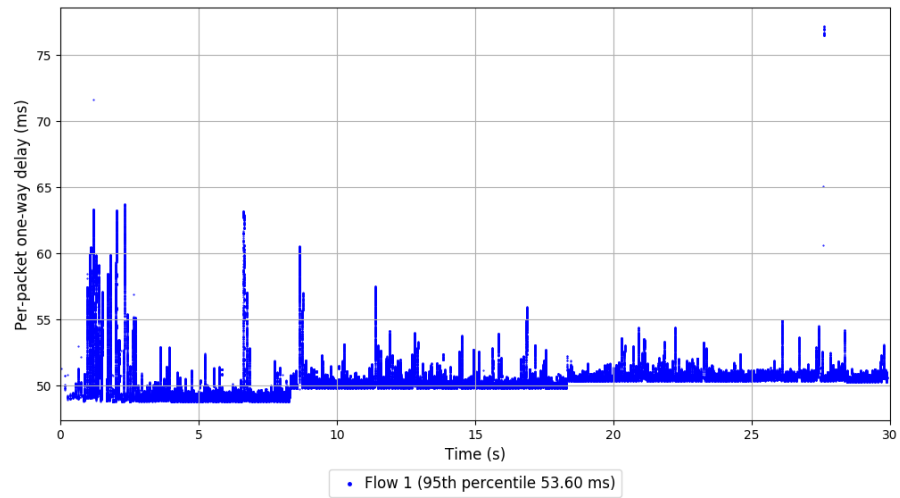
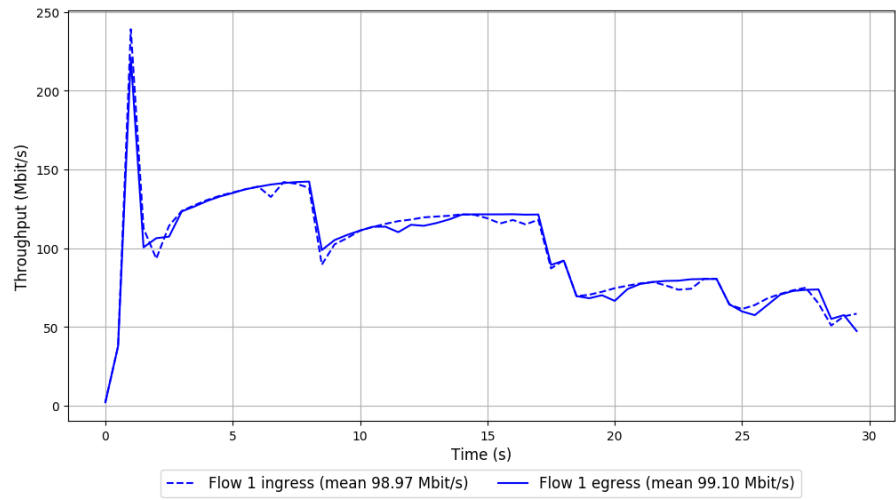
-- Flow 1:

Average throughput: 99.10 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.21%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 14:35:36

End at: 2017-09-21 14:36:06

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 57.716 ms

Loss rate: 0.24%

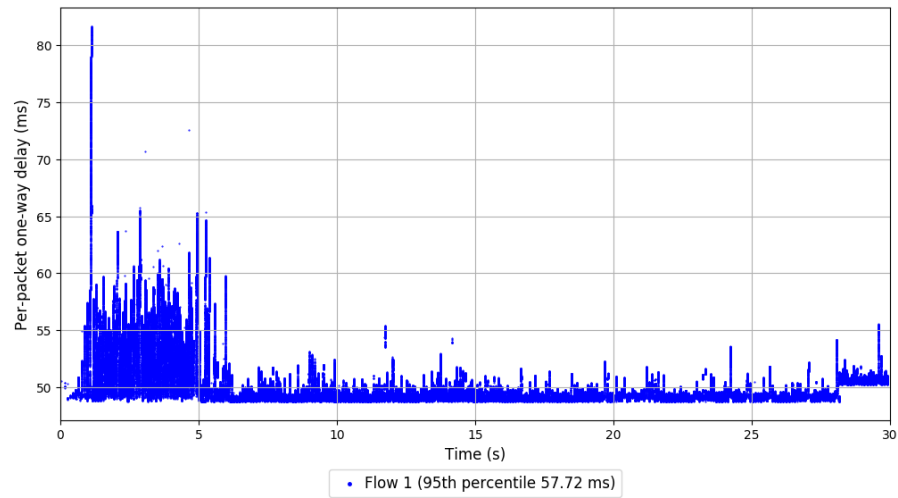
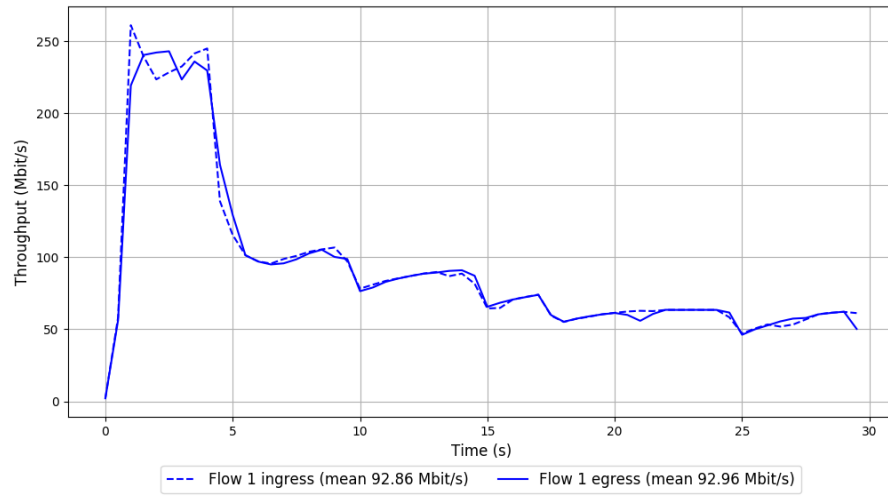
-- Flow 1:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 57.716 ms

Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 14:46:17

End at: 2017-09-21 14:46:47

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.94 Mbit/s

95th percentile per-packet one-way delay: 55.892 ms

Loss rate: 0.18%

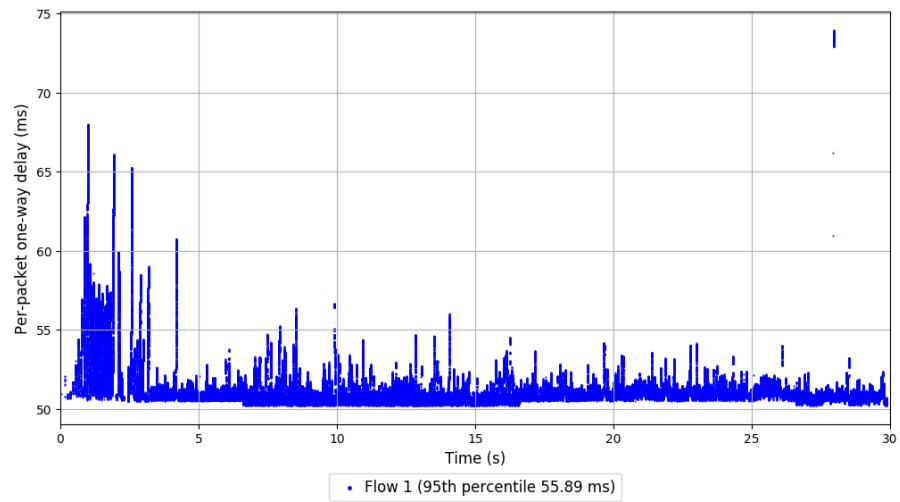
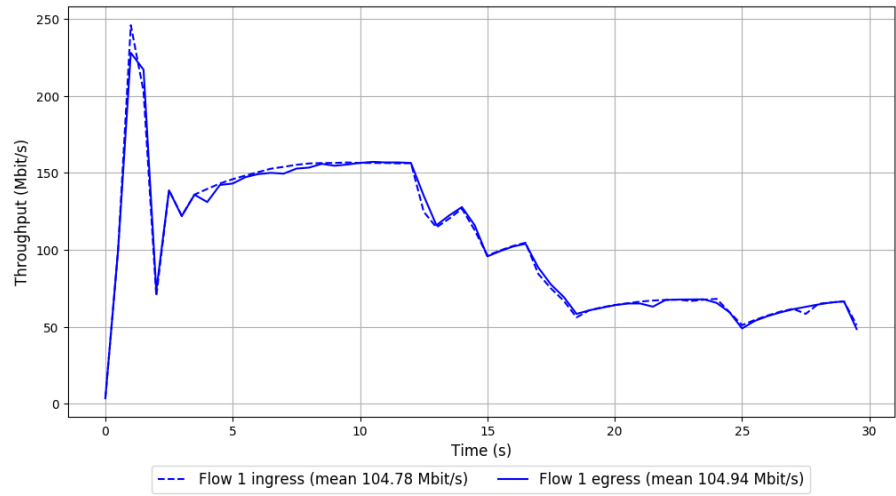
-- Flow 1:

Average throughput: 104.94 Mbit/s

95th percentile per-packet one-way delay: 55.892 ms

Loss rate: 0.18%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 14:57:01

End at: 2017-09-21 14:57:31

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 54.731 ms

Loss rate: 0.15%

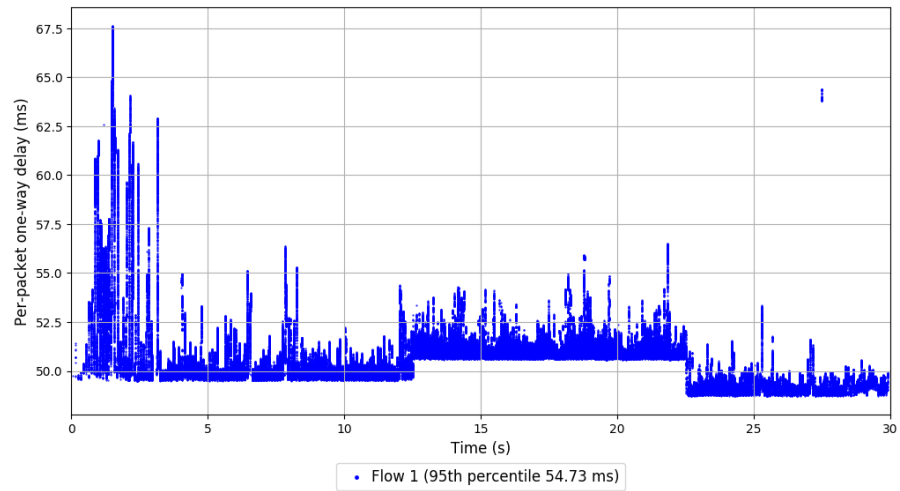
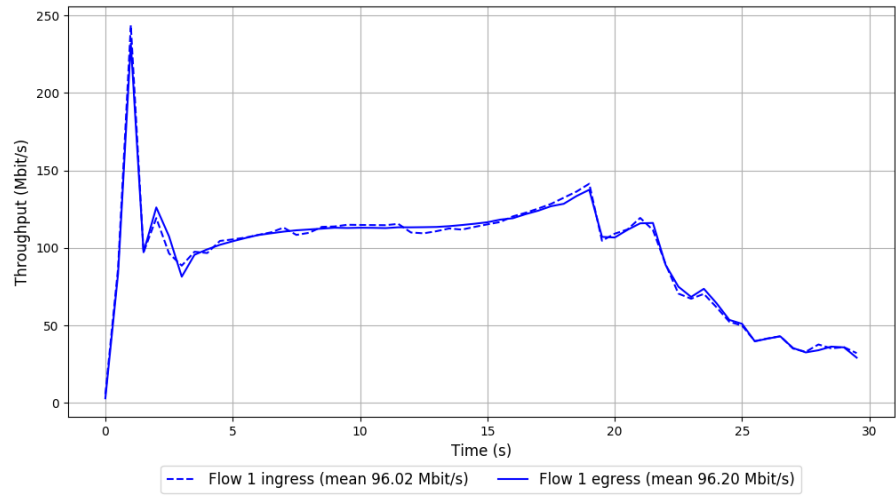
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 54.731 ms

Loss rate: 0.15%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 15:07:43

End at: 2017-09-21 15:08:13

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.55 Mbit/s

95th percentile per-packet one-way delay: 52.458 ms

Loss rate: 0.38%

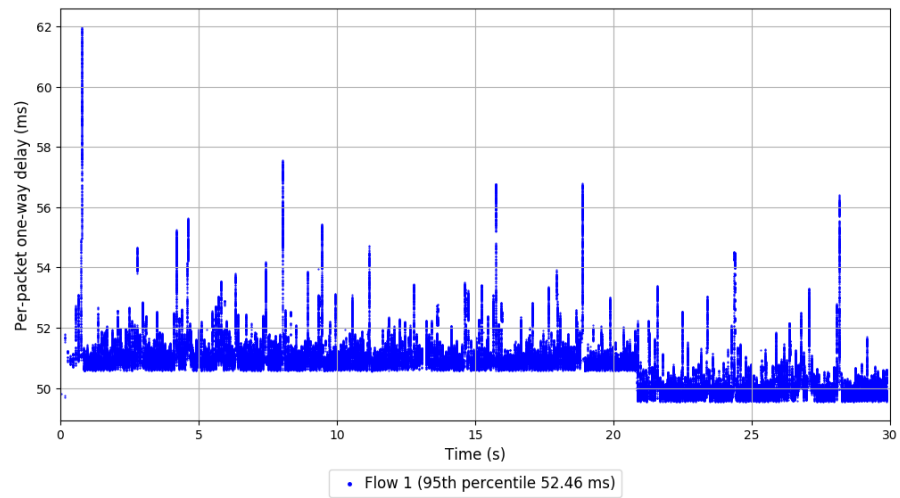
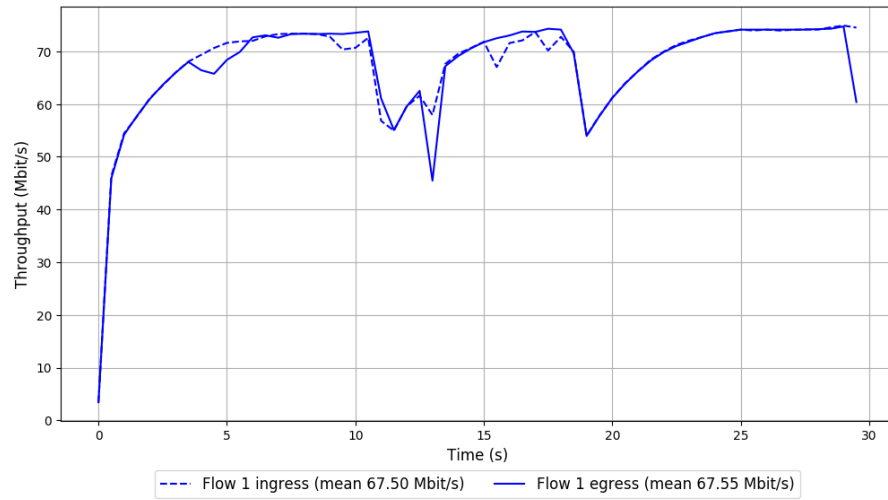
-- Flow 1:

Average throughput: 67.55 Mbit/s

95th percentile per-packet one-way delay: 52.458 ms

Loss rate: 0.38%

Run 5: Report of TCP Cubic — Data Link

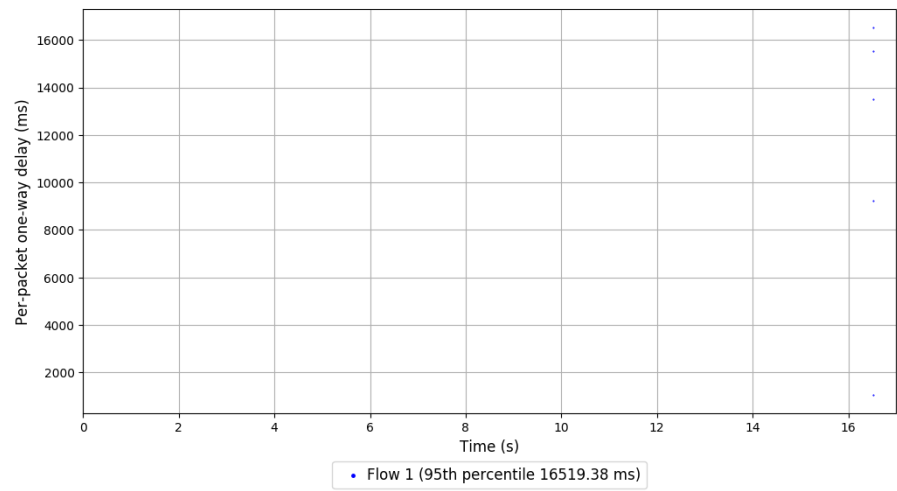
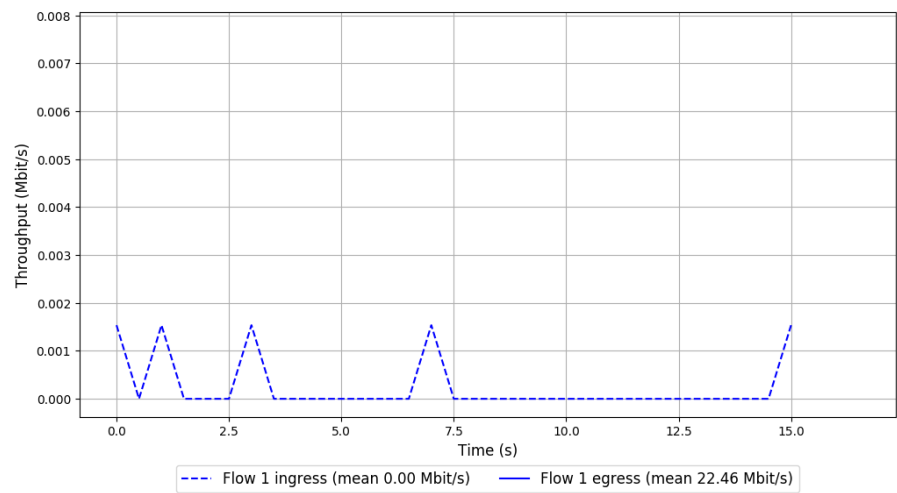


Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 15:18:13

End at: 2017-09-21 15:18:43

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 15:28:49

End at: 2017-09-21 15:29:19

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.43 Mbit/s

95th percentile per-packet one-way delay: 55.801 ms

Loss rate: 0.29%

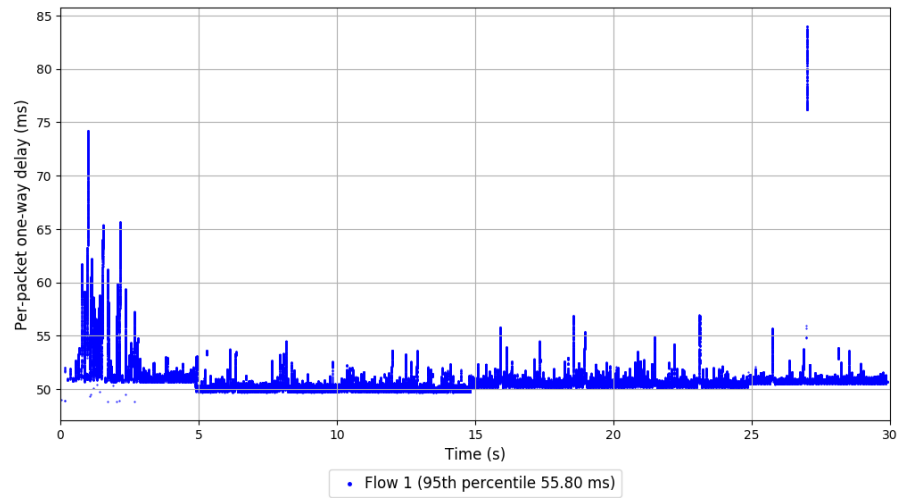
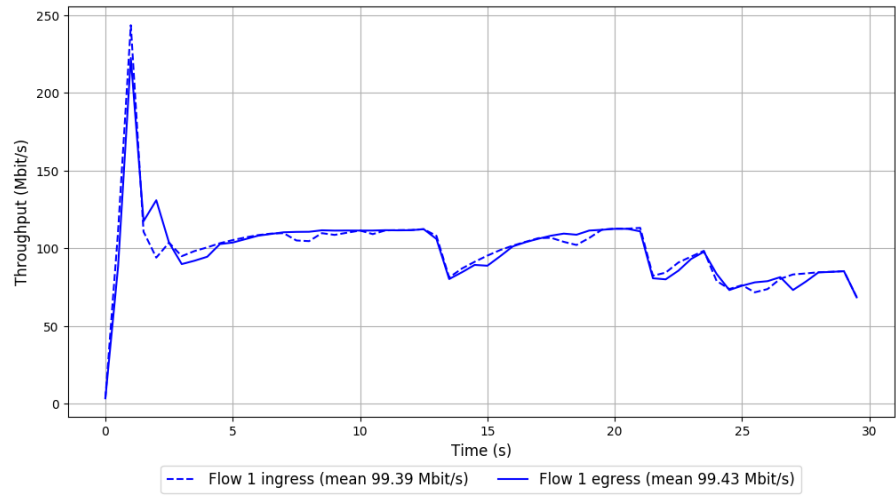
-- Flow 1:

Average throughput: 99.43 Mbit/s

95th percentile per-packet one-way delay: 55.801 ms

Loss rate: 0.29%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 15:39:31

End at: 2017-09-21 15:40:01

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.29 Mbit/s

95th percentile per-packet one-way delay: 57.830 ms

Loss rate: 0.41%

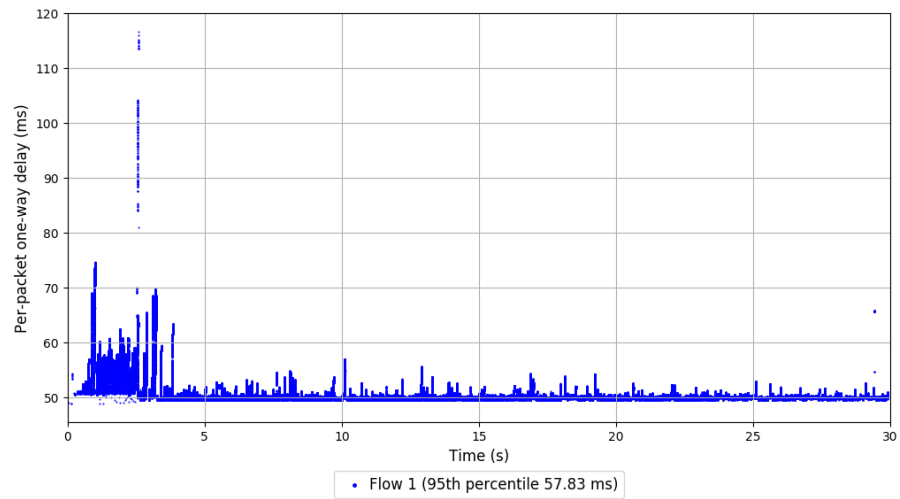
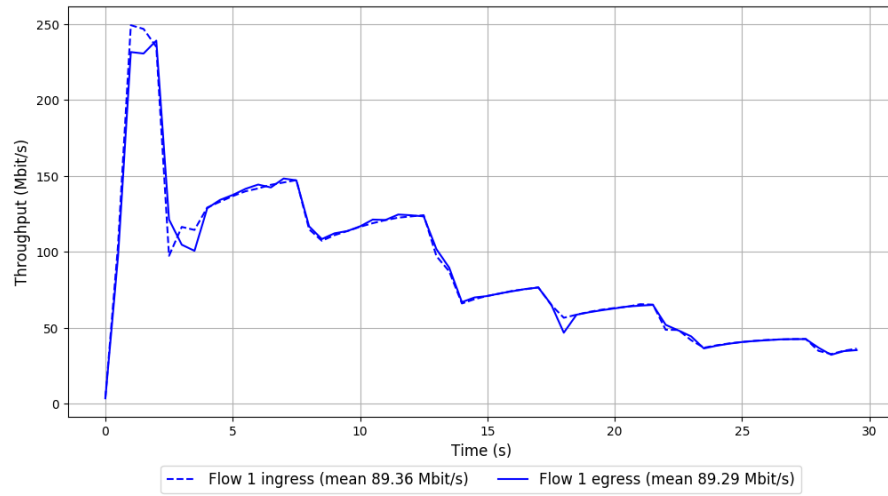
-- Flow 1:

Average throughput: 89.29 Mbit/s

95th percentile per-packet one-way delay: 57.830 ms

Loss rate: 0.41%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 15:50:11

End at: 2017-09-21 15:50:41

Below is generated by plot.py at 2017-09-21 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 57.122 ms

Loss rate: 0.17%

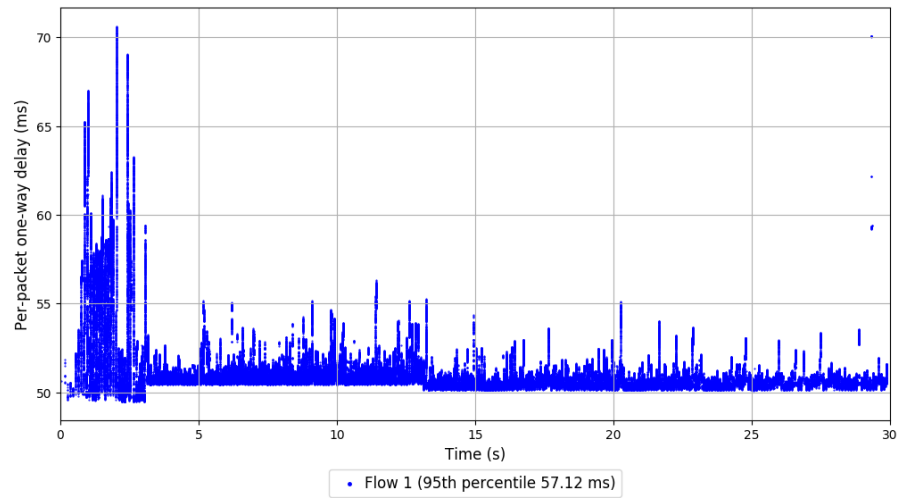
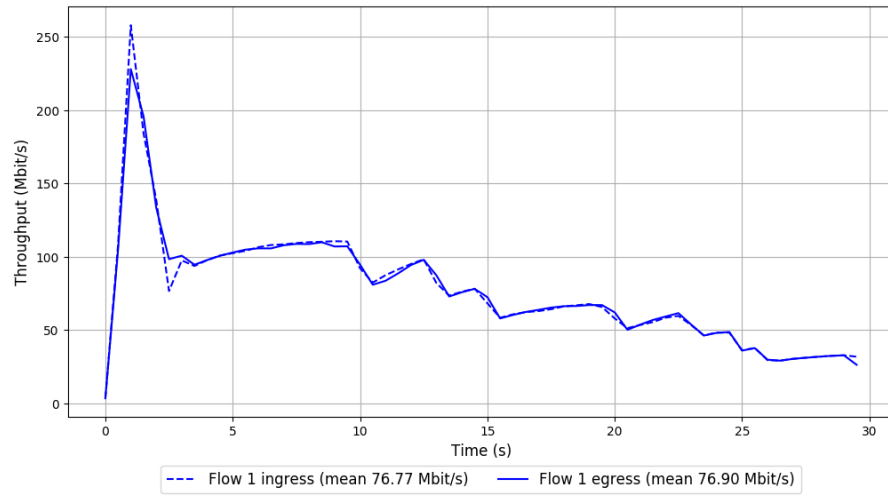
-- Flow 1:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 57.122 ms

Loss rate: 0.17%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 16:00:56

End at: 2017-09-21 16:01:27

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.71 Mbit/s

95th percentile per-packet one-way delay: 55.384 ms

Loss rate: 0.23%

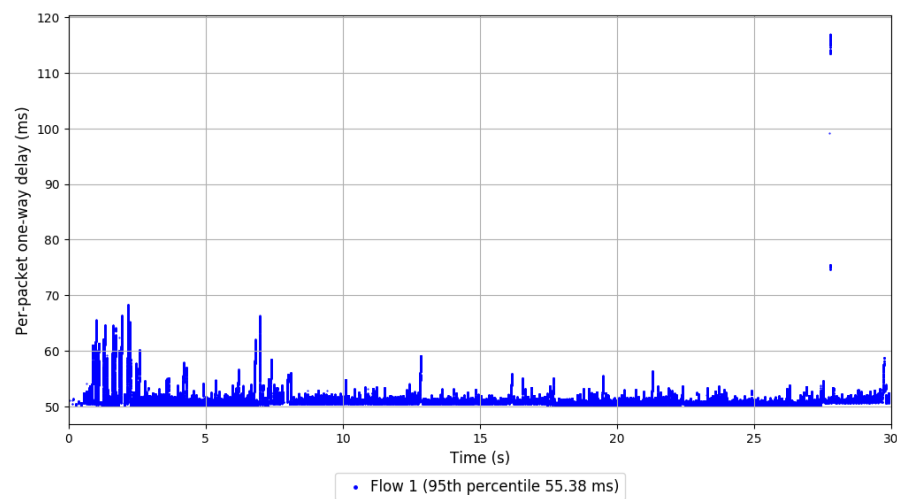
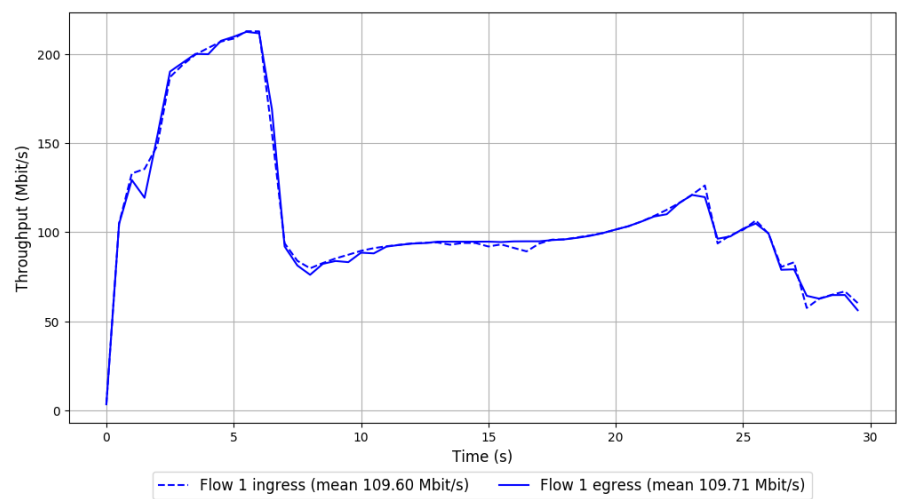
-- Flow 1:

Average throughput: 109.71 Mbit/s

95th percentile per-packet one-way delay: 55.384 ms

Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link

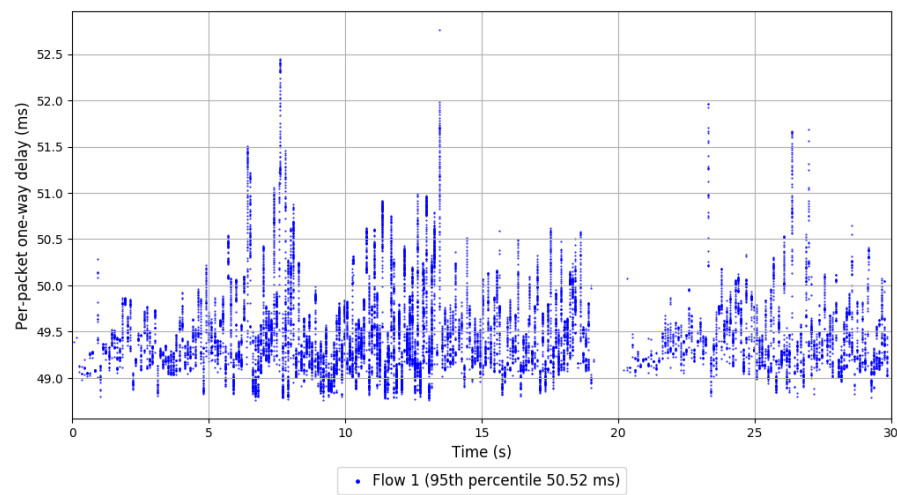
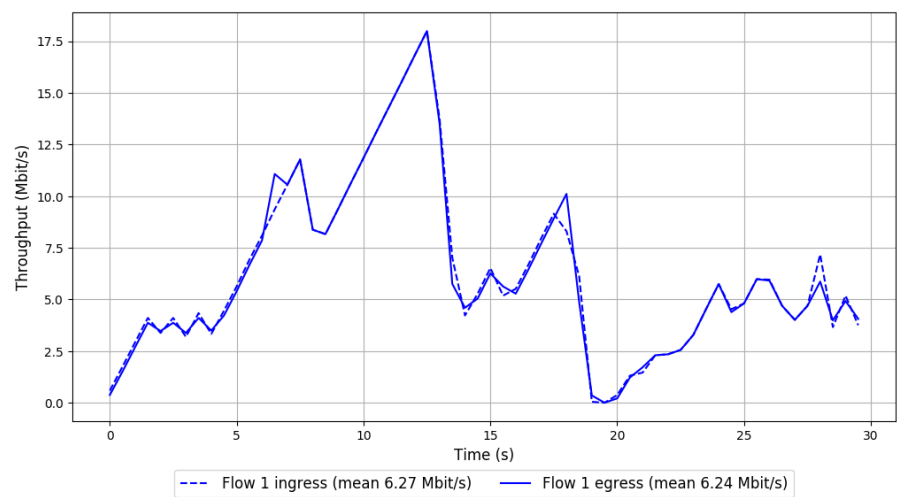


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 14:28:15
End at: 2017-09-21 14:28:45

# Below is generated by plot.py at 2017-09-21 18:07:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 50.524 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 50.524 ms
Loss rate: 0.69%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-09-21 14:38:36

End at: 2017-09-21 14:39:06

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 51.127 ms

Loss rate: 0.68%

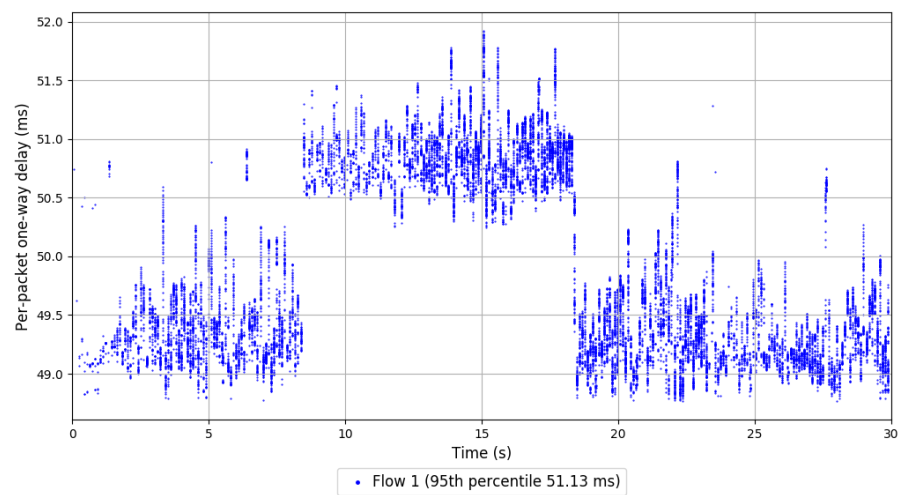
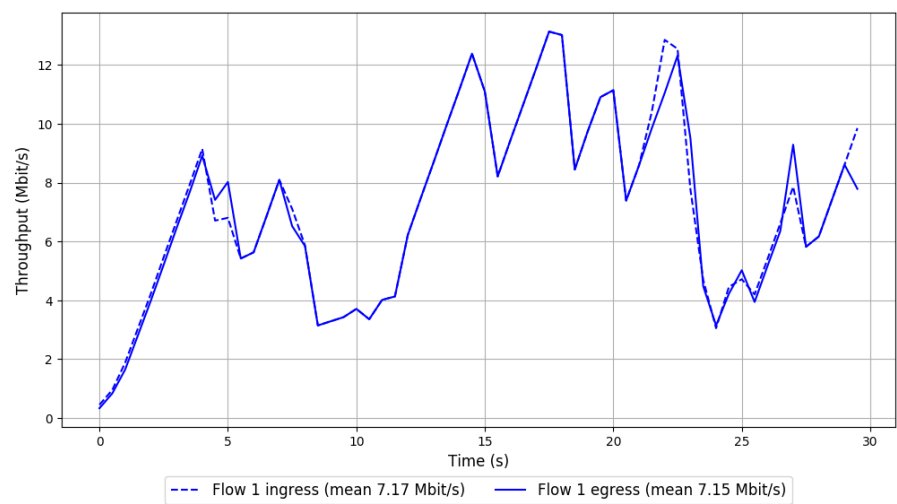
-- Flow 1:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 51.127 ms

Loss rate: 0.68%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 14:49:19

End at: 2017-09-21 14:49:49

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 51.647 ms

Loss rate: 0.84%

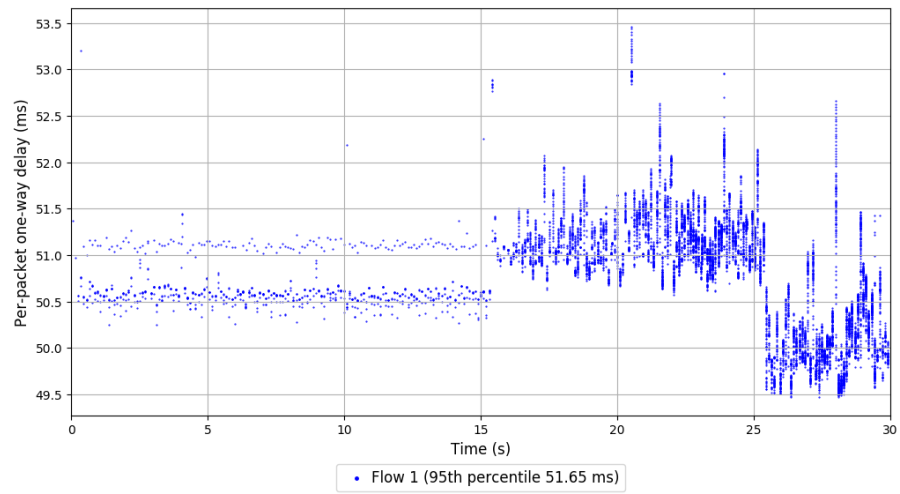
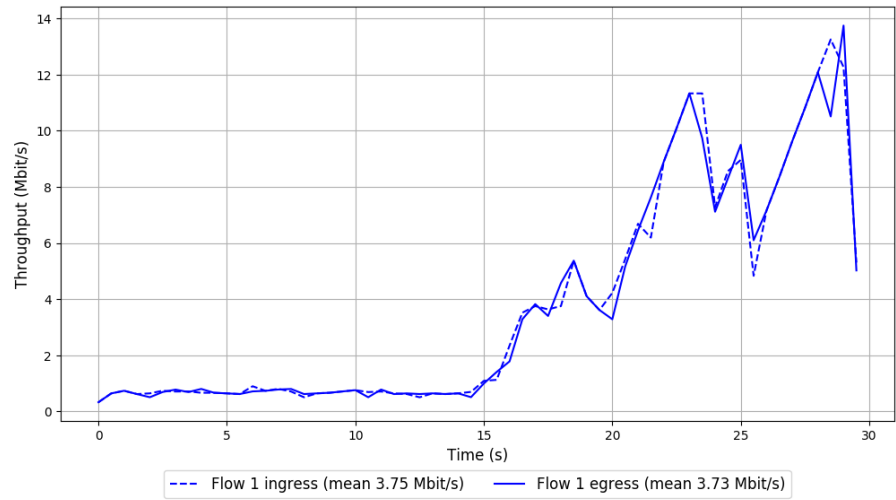
-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 51.647 ms

Loss rate: 0.84%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 15:00:02

End at: 2017-09-21 15:00:32

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 51.838 ms

Loss rate: 0.94%

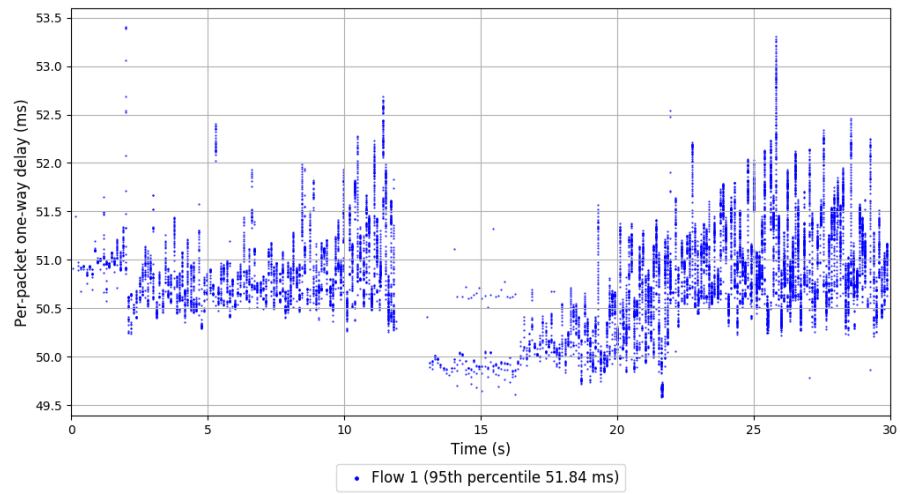
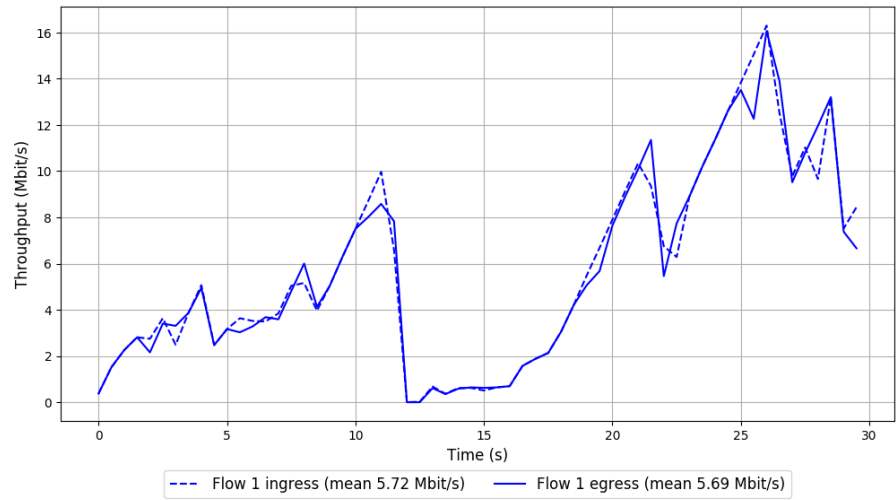
-- Flow 1:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 51.838 ms

Loss rate: 0.94%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 15:10:43

End at: 2017-09-21 15:11:13

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 52.004 ms

Loss rate: 0.41%

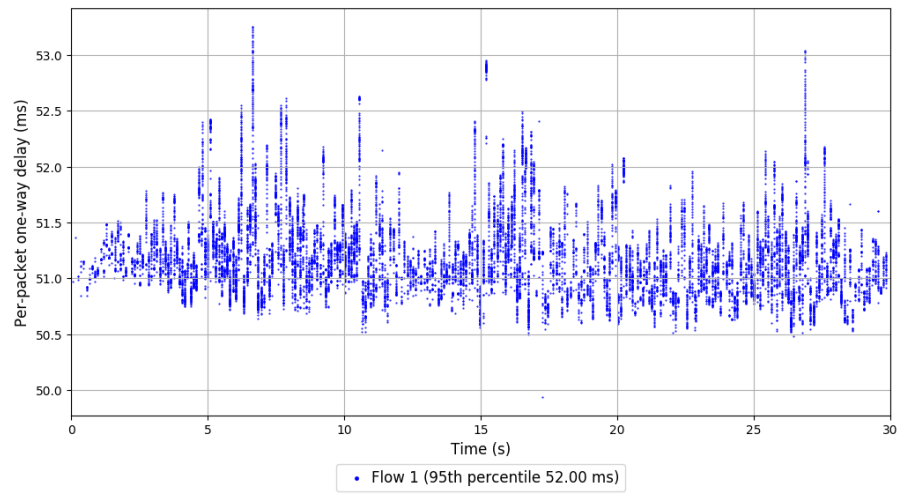
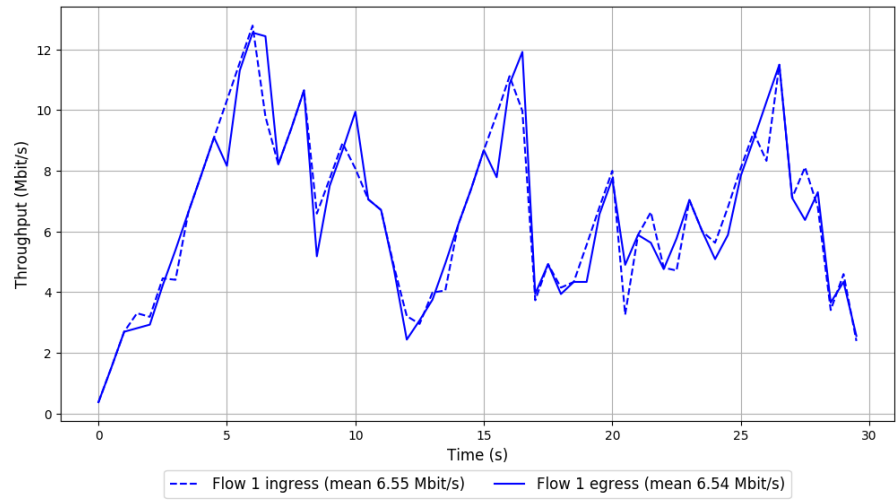
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 52.004 ms

Loss rate: 0.41%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 15:21:07

End at: 2017-09-21 15:21:37

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 51.559 ms

Loss rate: 1.06%

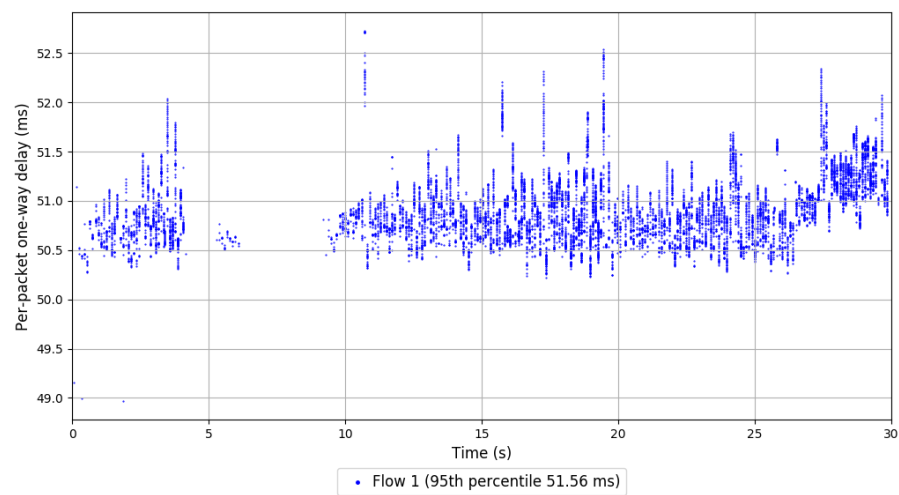
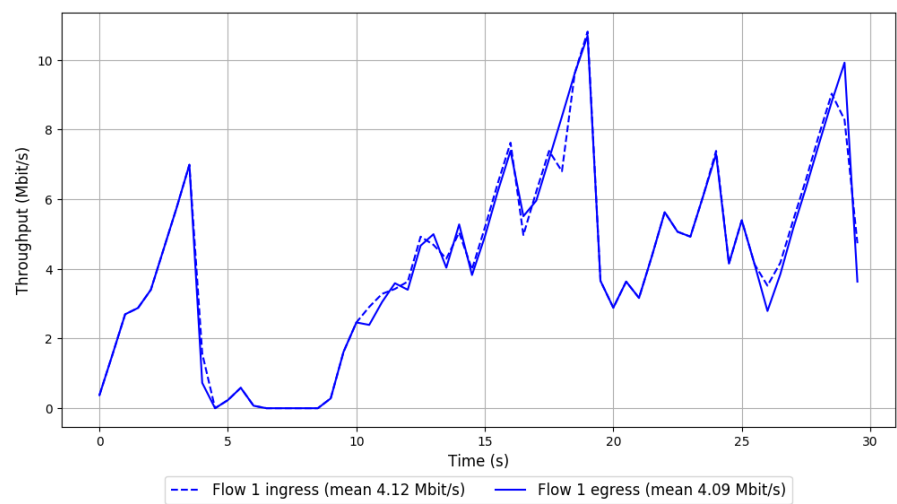
-- Flow 1:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 51.559 ms

Loss rate: 1.06%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 15:31:49

End at: 2017-09-21 15:32:19

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 51.991 ms

Loss rate: 0.76%

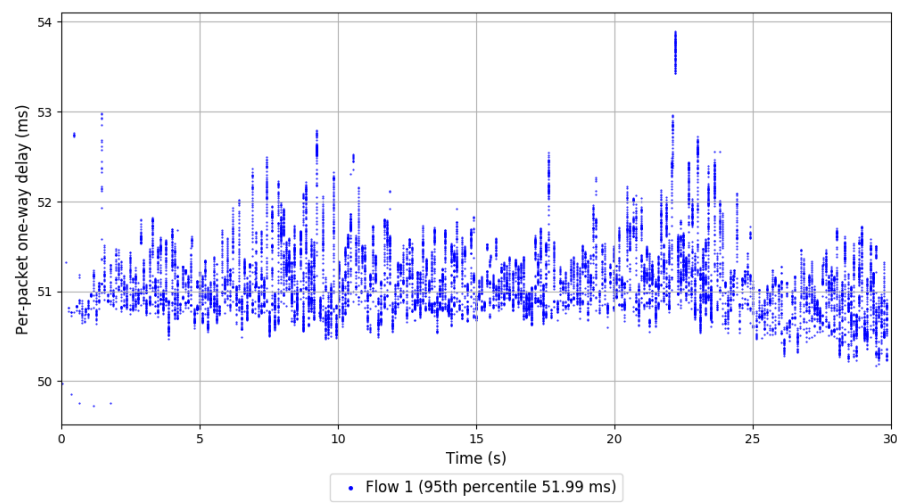
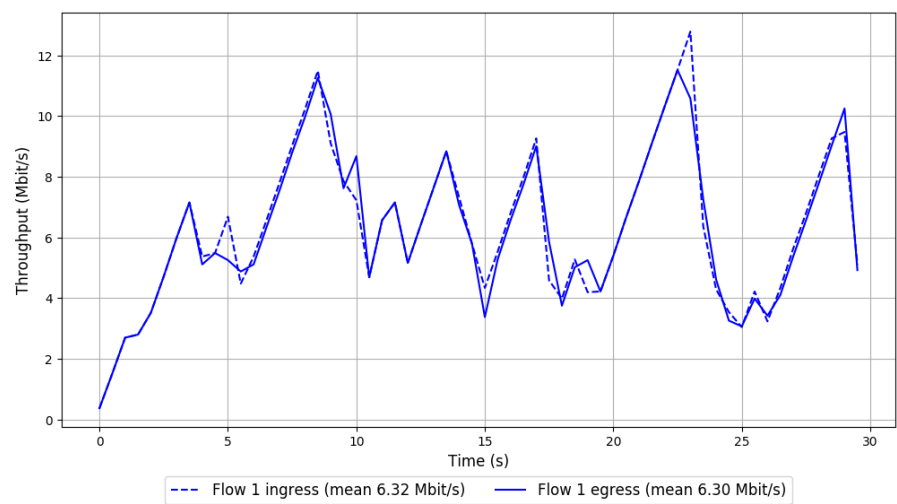
-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 51.991 ms

Loss rate: 0.76%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 15:42:30

End at: 2017-09-21 15:43:00

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.963 ms

Loss rate: 0.37%

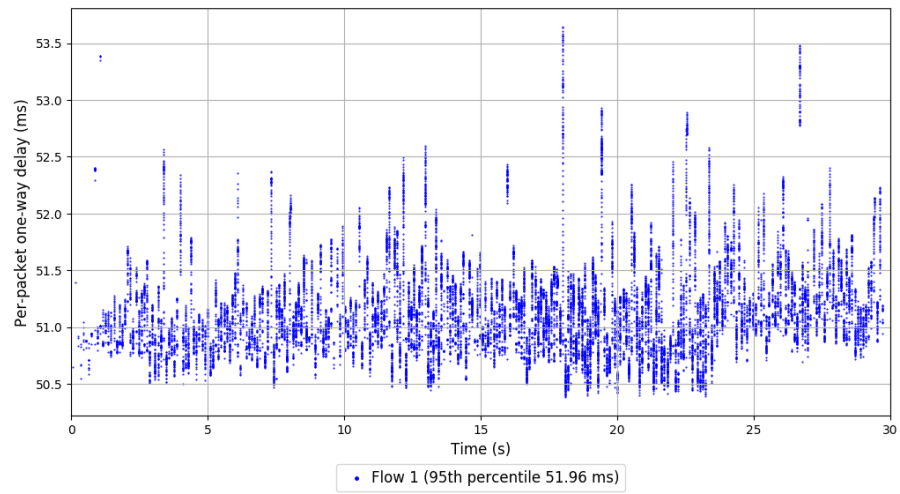
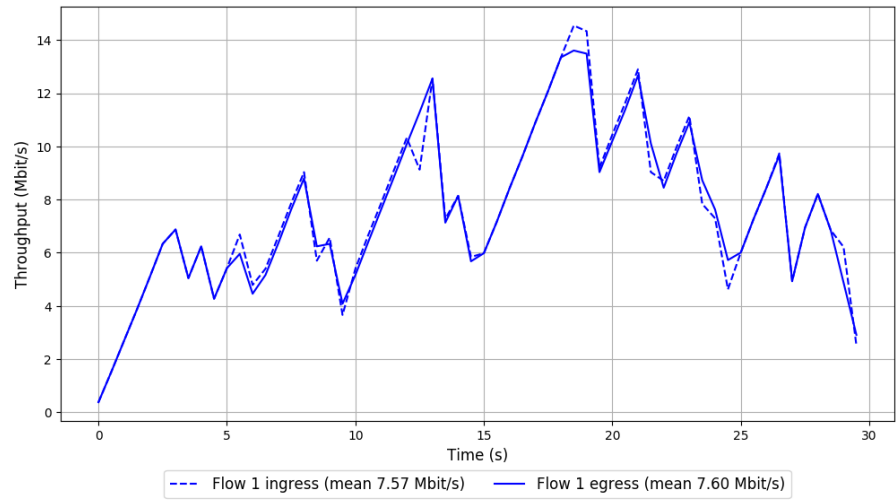
-- Flow 1:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.963 ms

Loss rate: 0.37%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 15:53:10

End at: 2017-09-21 15:53:40

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 1.31%

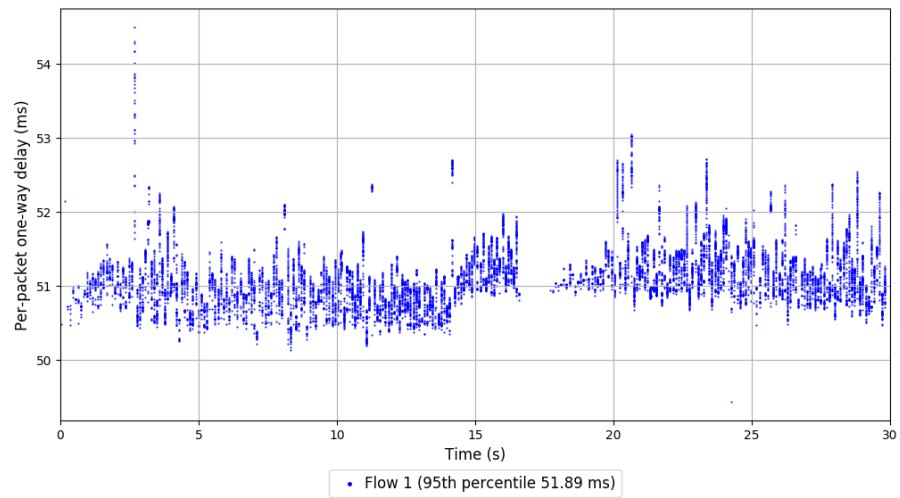
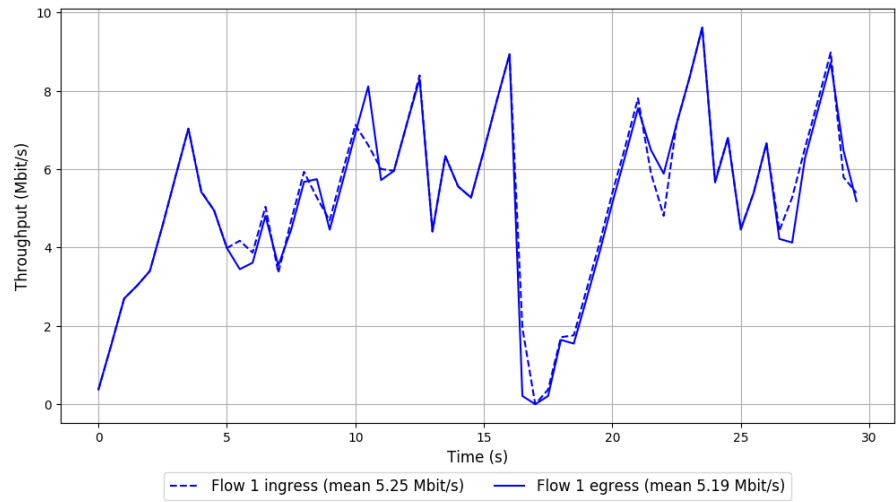
-- Flow 1:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 1.31%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-21 16:03:59

End at: 2017-09-21 16:04:29

Below is generated by plot.py at 2017-09-21 18:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 51.706 ms

Loss rate: 0.64%

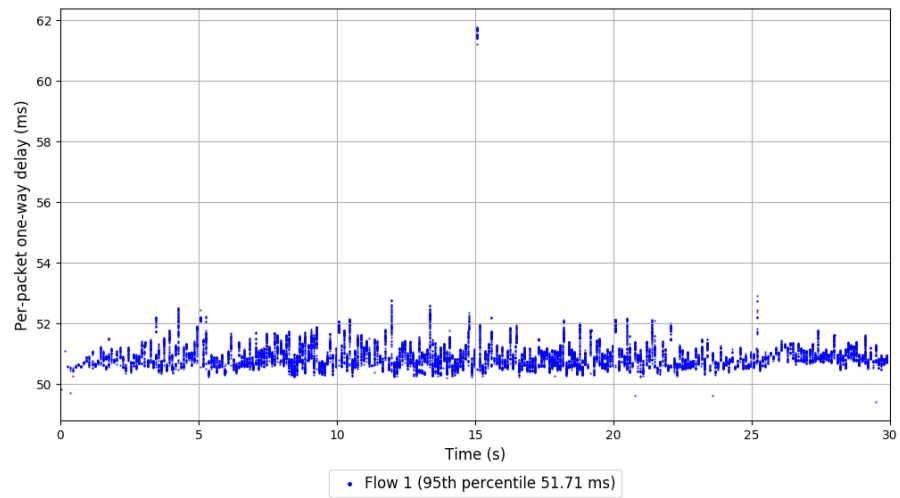
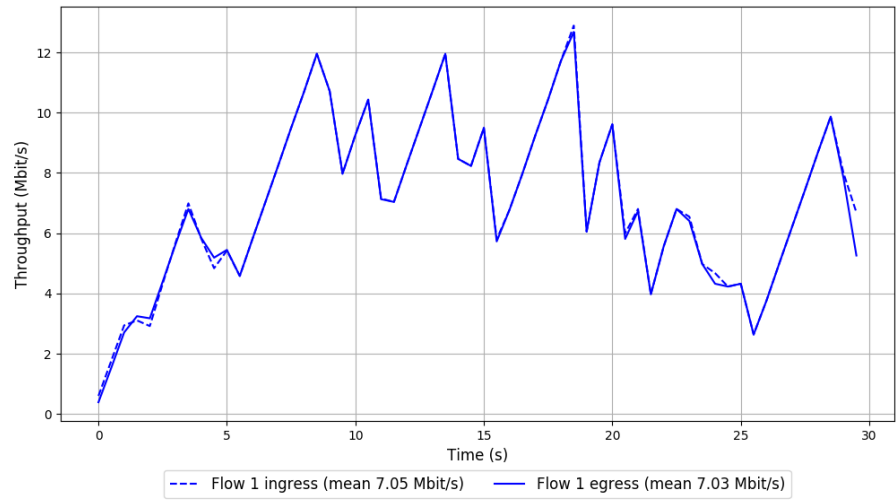
-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 51.706 ms

Loss rate: 0.64%

Run 10: Report of LEDBAT — Data Link

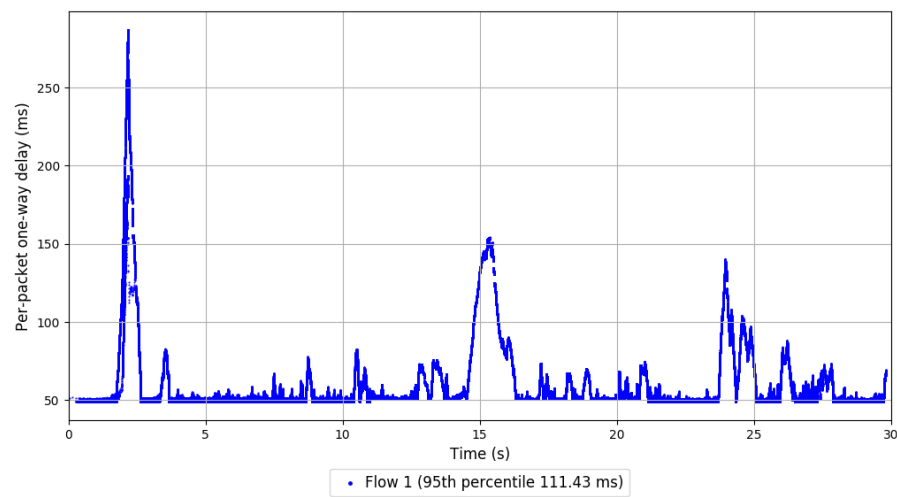
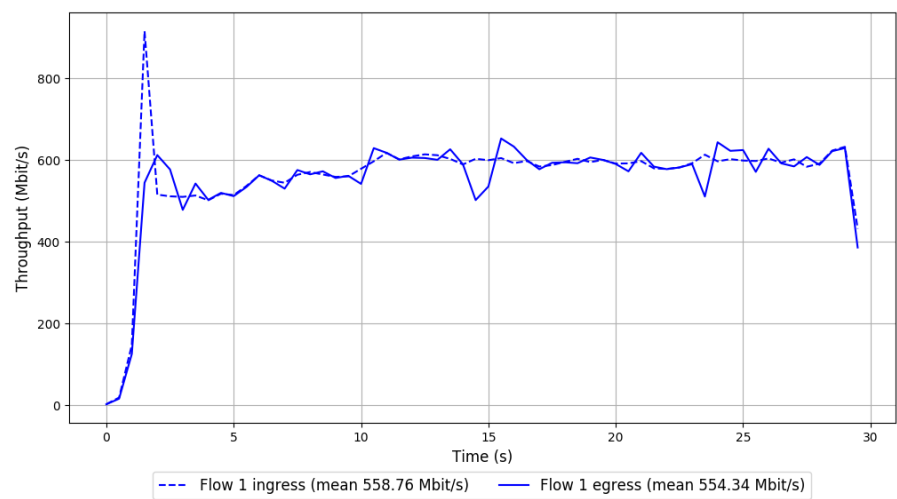


```
Run 1: Statistics of PCC

Start at: 2017-09-21 14:22:43
End at: 2017-09-21 14:23:13

# Below is generated by plot.py at 2017-09-21 18:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.34 Mbit/s
95th percentile per-packet one-way delay: 111.428 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 554.34 Mbit/s
95th percentile per-packet one-way delay: 111.428 ms
Loss rate: 1.14%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 14:33:17

End at: 2017-09-21 14:33:47

Below is generated by plot.py at 2017-09-21 18:17:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.89 Mbit/s

95th percentile per-packet one-way delay: 93.596 ms

Loss rate: 1.34%

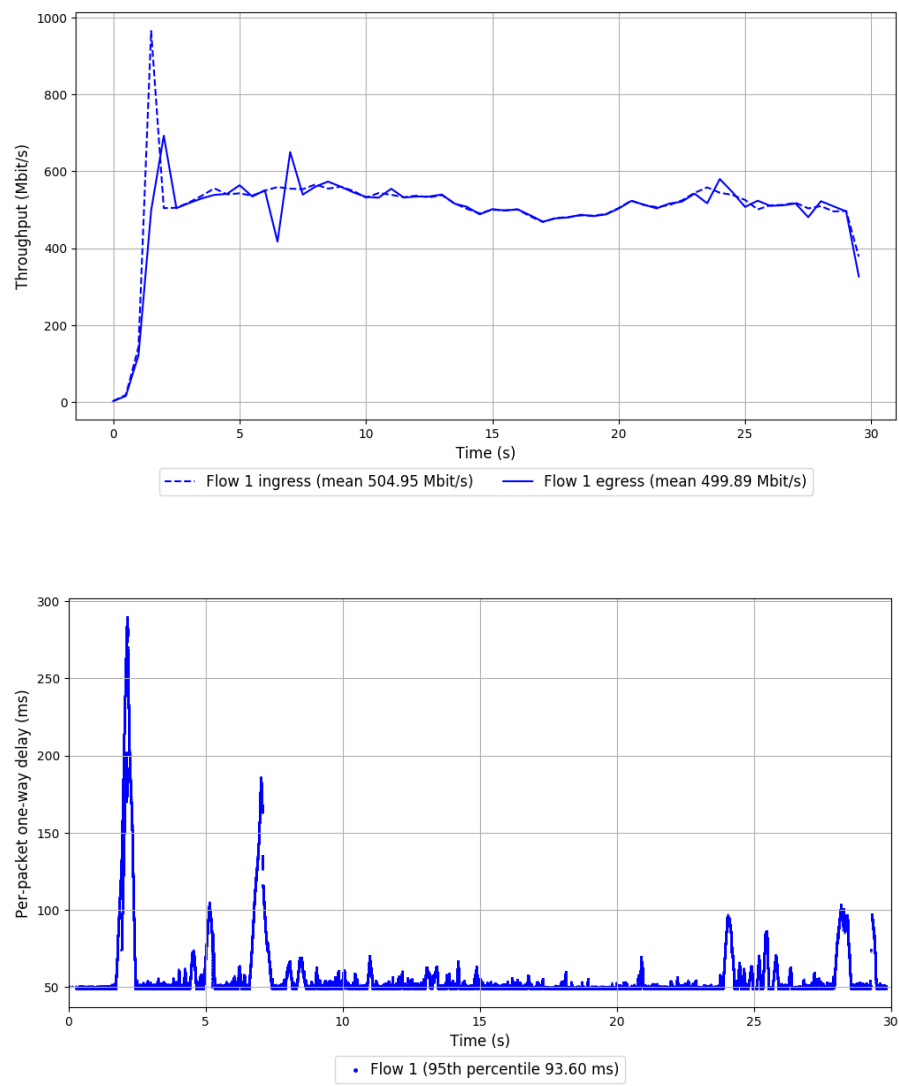
-- Flow 1:

Average throughput: 499.89 Mbit/s

95th percentile per-packet one-way delay: 93.596 ms

Loss rate: 1.34%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 14:43:44

End at: 2017-09-21 14:44:14

Below is generated by plot.py at 2017-09-21 18:17:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.88 Mbit/s

95th percentile per-packet one-way delay: 129.298 ms

Loss rate: 1.38%

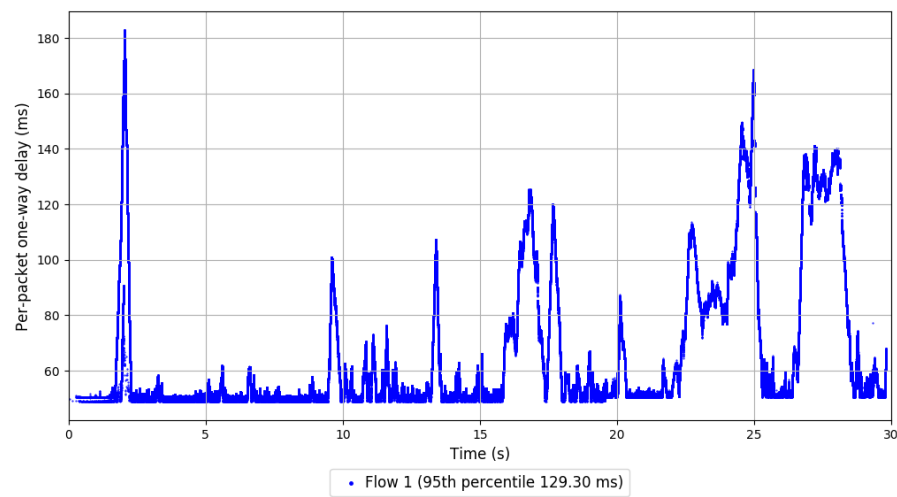
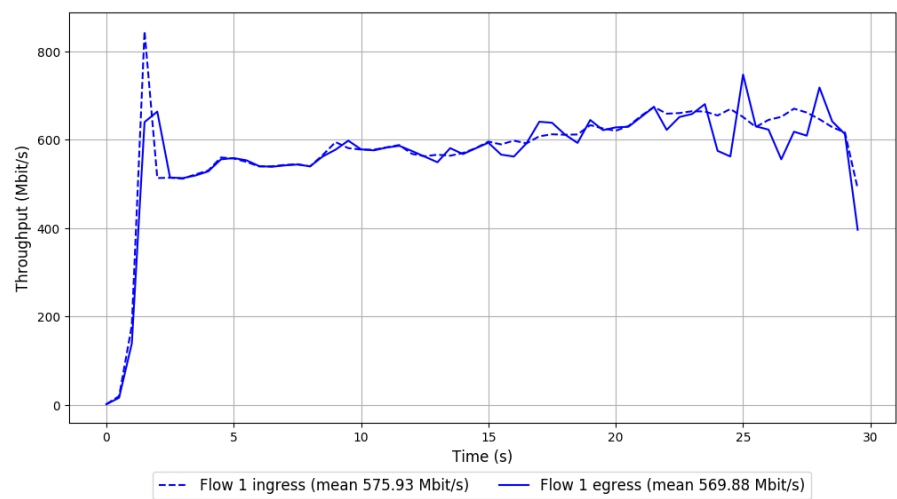
-- Flow 1:

Average throughput: 569.88 Mbit/s

95th percentile per-packet one-way delay: 129.298 ms

Loss rate: 1.38%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 14:54:29

End at: 2017-09-21 14:54:59

Below is generated by plot.py at 2017-09-21 18:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.70 Mbit/s

95th percentile per-packet one-way delay: 126.141 ms

Loss rate: 1.05%

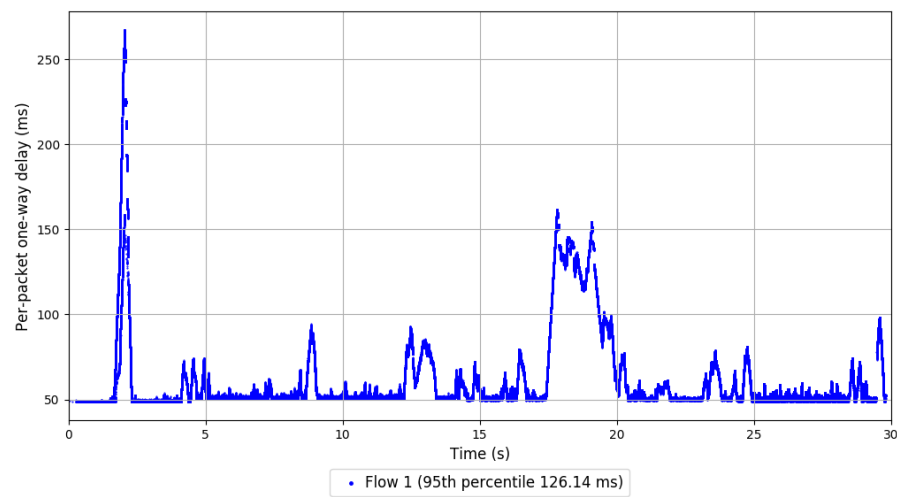
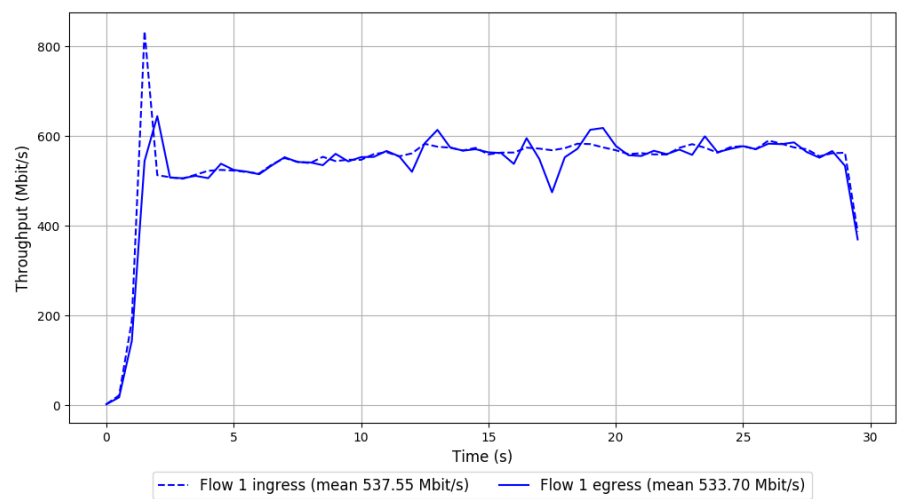
-- Flow 1:

Average throughput: 533.70 Mbit/s

95th percentile per-packet one-way delay: 126.141 ms

Loss rate: 1.05%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 15:05:08

End at: 2017-09-21 15:05:38

Below is generated by plot.py at 2017-09-21 18:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.48 Mbit/s

95th percentile per-packet one-way delay: 116.782 ms

Loss rate: 1.22%

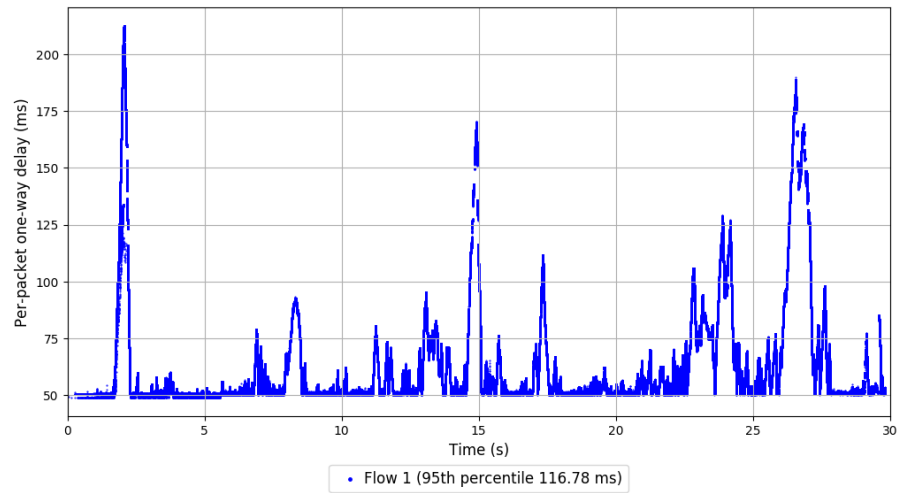
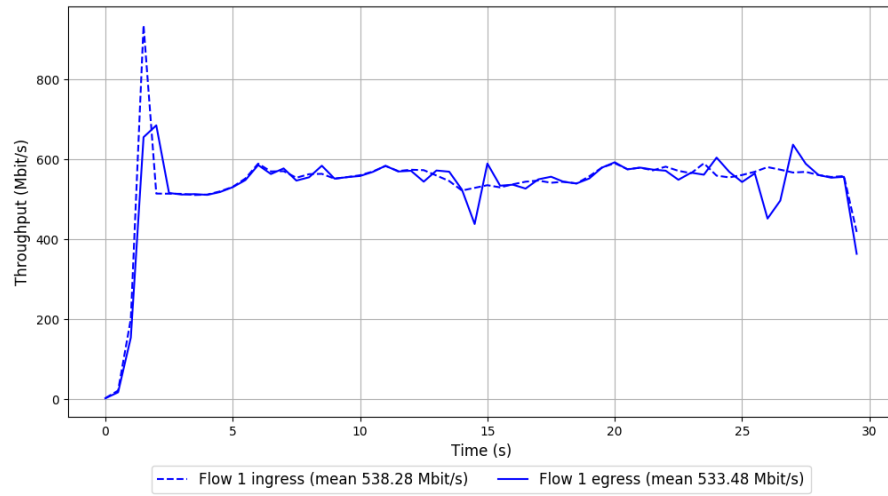
-- Flow 1:

Average throughput: 533.48 Mbit/s

95th percentile per-packet one-way delay: 116.782 ms

Loss rate: 1.22%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 15:15:51

End at: 2017-09-21 15:16:21

Below is generated by plot.py at 2017-09-21 18:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.97 Mbit/s

95th percentile per-packet one-way delay: 111.009 ms

Loss rate: 1.49%

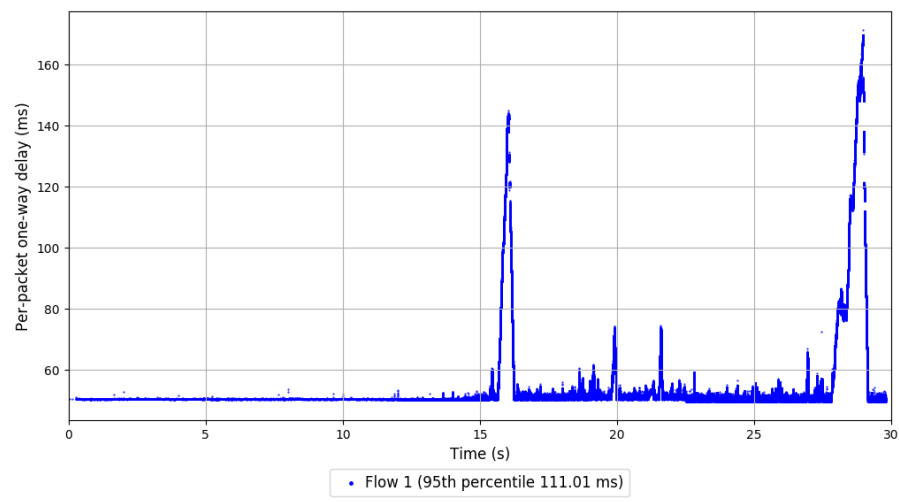
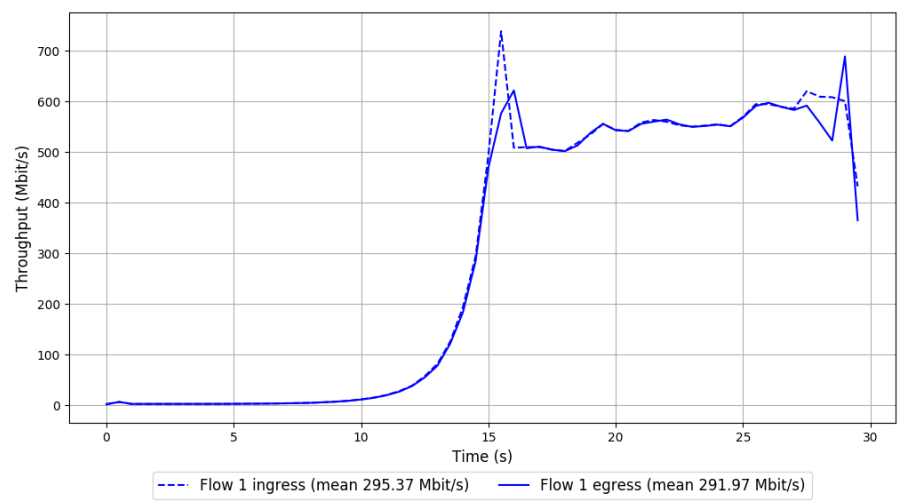
-- Flow 1:

Average throughput: 291.97 Mbit/s

95th percentile per-packet one-way delay: 111.009 ms

Loss rate: 1.49%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 15:26:16

End at: 2017-09-21 15:26:46

Below is generated by plot.py at 2017-09-21 18:18:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.37 Mbit/s

95th percentile per-packet one-way delay: 126.280 ms

Loss rate: 1.29%

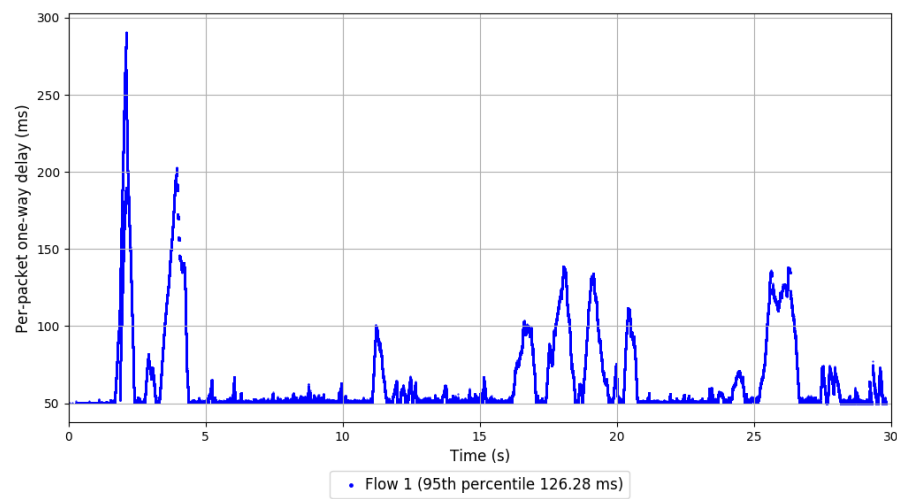
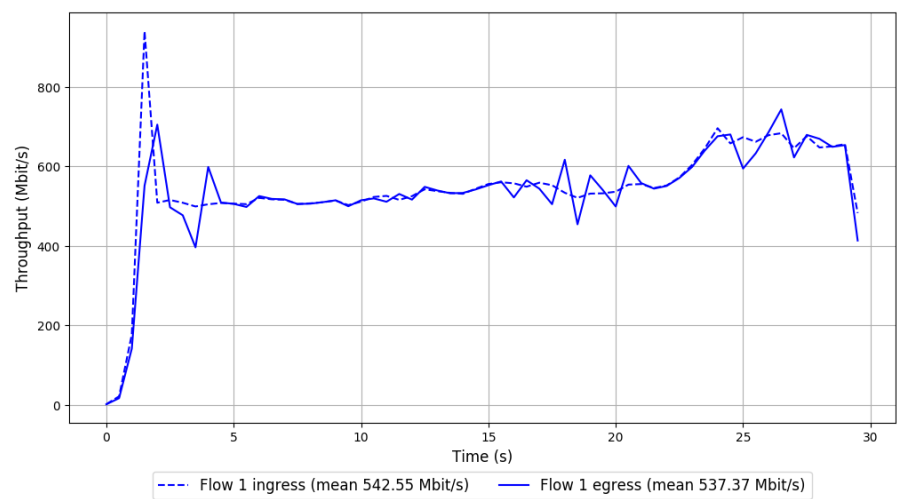
-- Flow 1:

Average throughput: 537.37 Mbit/s

95th percentile per-packet one-way delay: 126.280 ms

Loss rate: 1.29%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 15:36:57

End at: 2017-09-21 15:37:27

Below is generated by plot.py at 2017-09-21 18:18:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.49 Mbit/s

95th percentile per-packet one-way delay: 133.689 ms

Loss rate: 2.38%

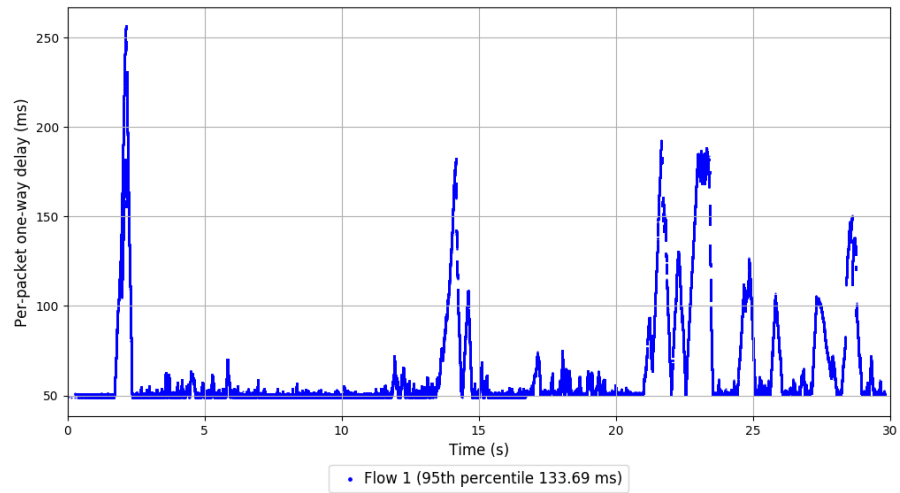
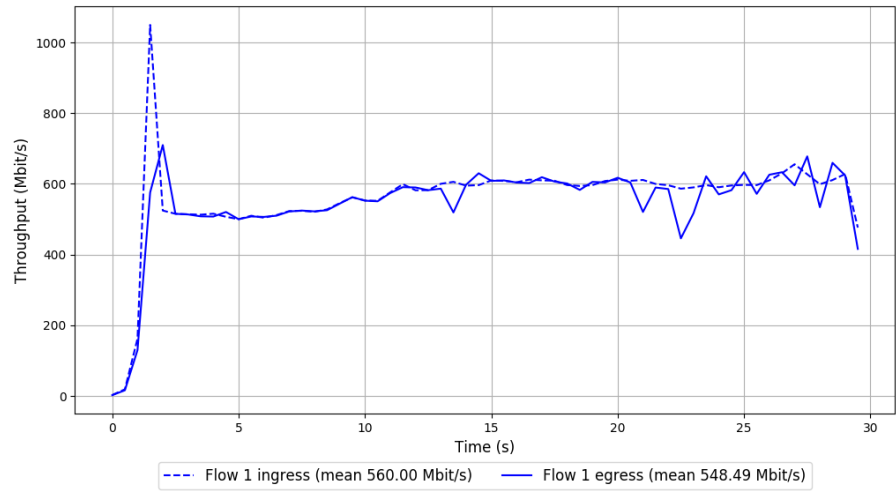
-- Flow 1:

Average throughput: 548.49 Mbit/s

95th percentile per-packet one-way delay: 133.689 ms

Loss rate: 2.38%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-21 15:47:36

End at: 2017-09-21 15:48:06

Below is generated by plot.py at 2017-09-21 18:24:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.30 Mbit/s

95th percentile per-packet one-way delay: 117.247 ms

Loss rate: 1.57%

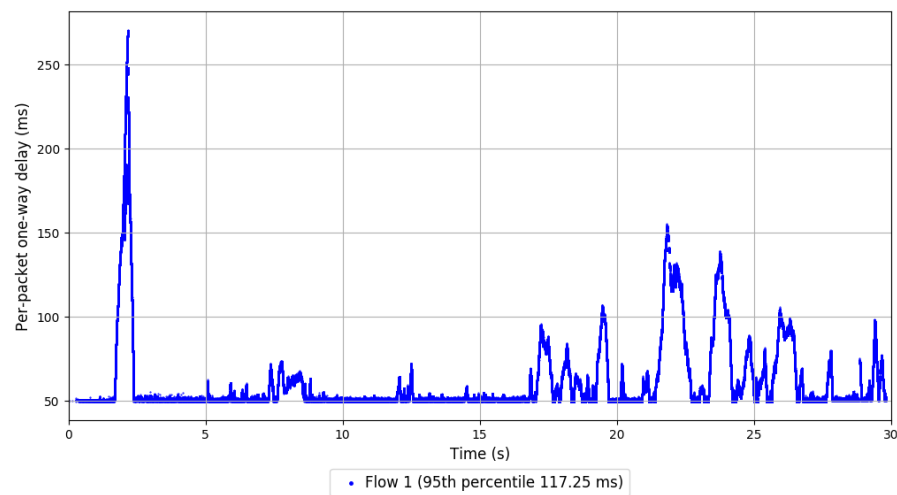
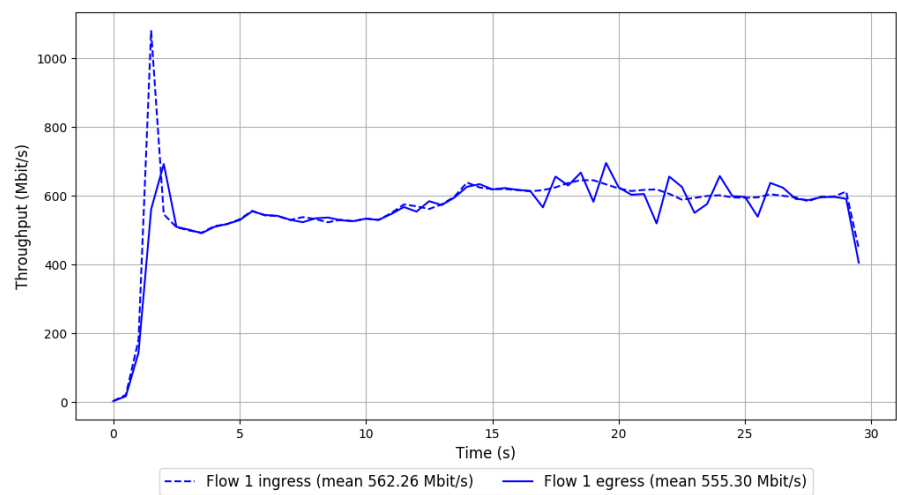
-- Flow 1:

Average throughput: 555.30 Mbit/s

95th percentile per-packet one-way delay: 117.247 ms

Loss rate: 1.57%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 15:58:21

End at: 2017-09-21 15:58:51

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.85 Mbit/s

95th percentile per-packet one-way delay: 88.702 ms

Loss rate: 0.65%

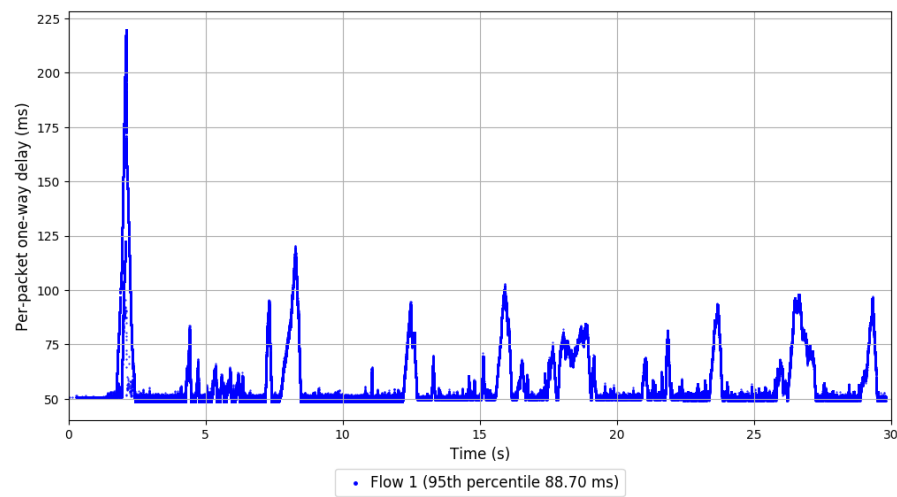
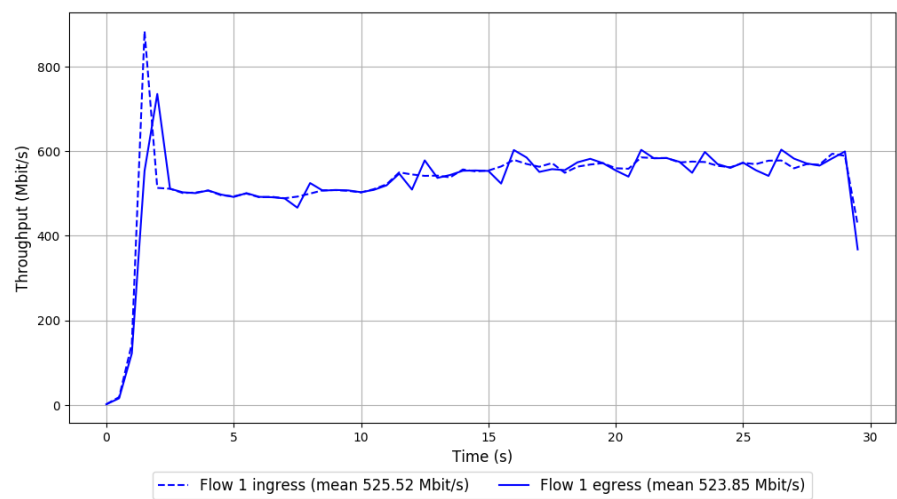
-- Flow 1:

Average throughput: 523.85 Mbit/s

95th percentile per-packet one-way delay: 88.702 ms

Loss rate: 0.65%

Run 10: Report of PCC — Data Link

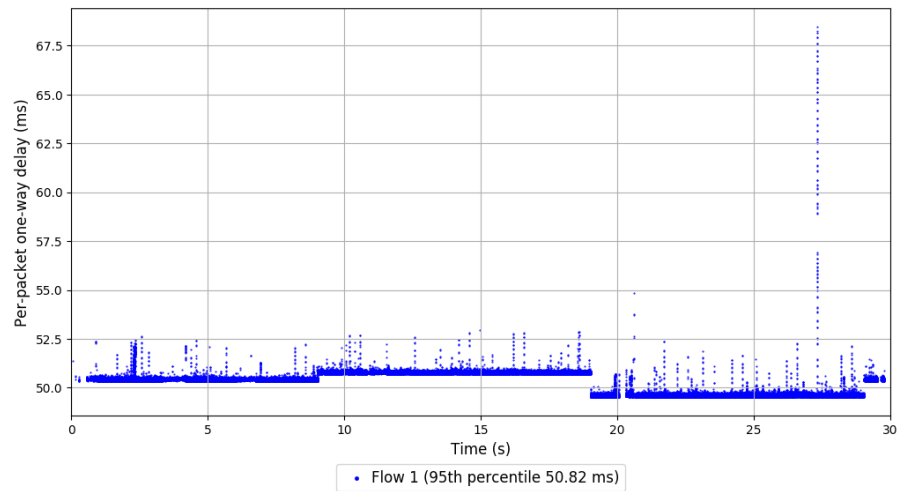
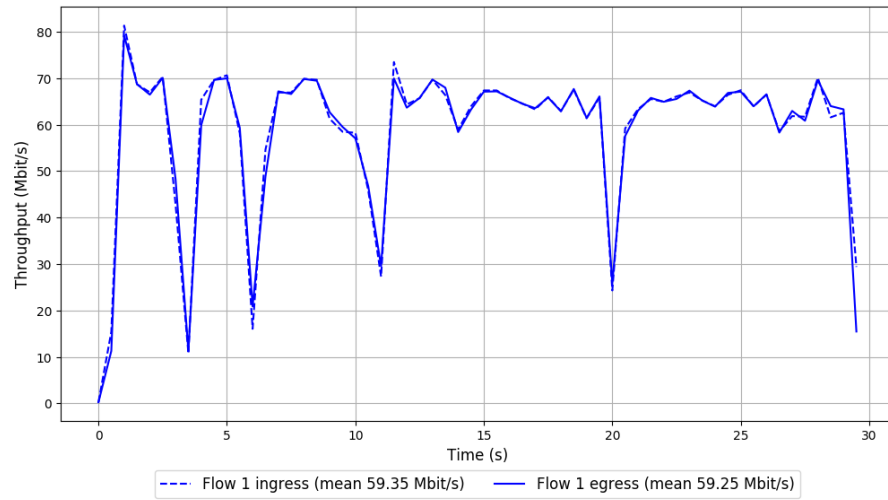


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 14:24:35
End at: 2017-09-21 14:25:05

# Below is generated by plot.py at 2017-09-21 18:27:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 50.822 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 50.822 ms
Loss rate: 0.50%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 14:34:55

End at: 2017-09-21 14:35:25

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 50.927 ms

Loss rate: 0.41%

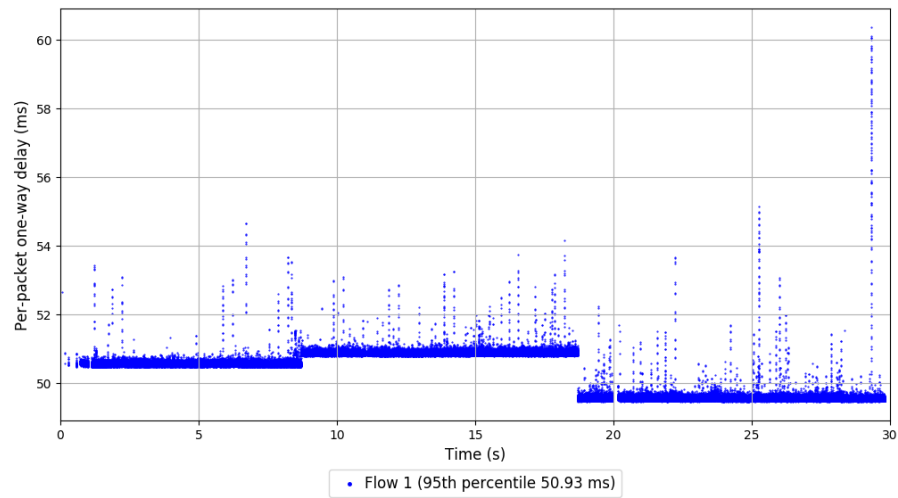
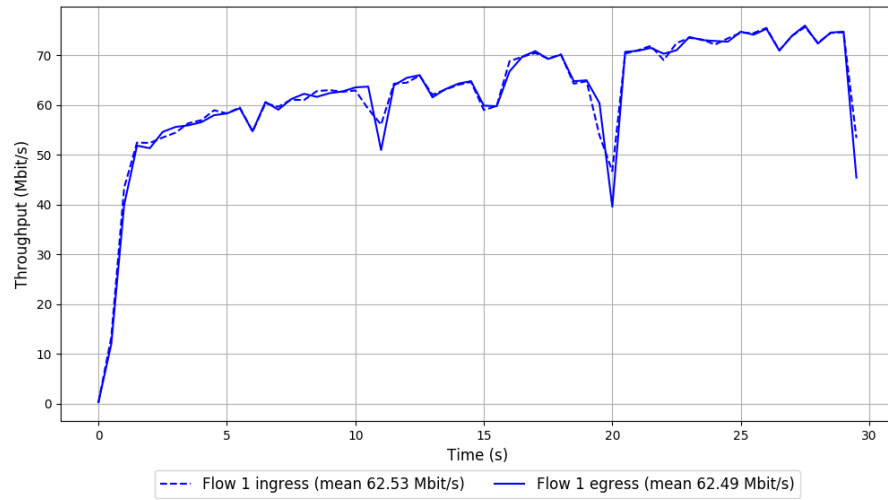
-- Flow 1:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 50.927 ms

Loss rate: 0.41%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 14:45:38

End at: 2017-09-21 14:46:08

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 50.639 ms

Loss rate: 0.57%

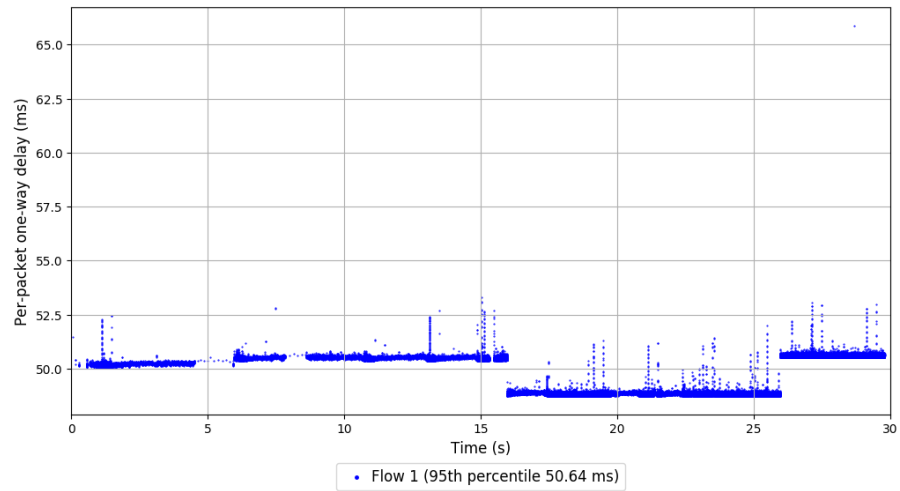
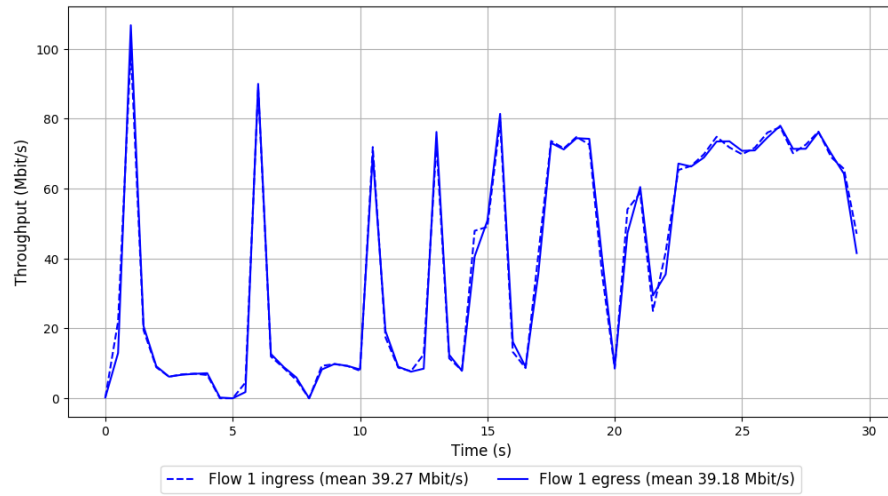
-- Flow 1:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 50.639 ms

Loss rate: 0.57%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 14:56:22

End at: 2017-09-21 14:56:52

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 50.655 ms

Loss rate: 0.65%

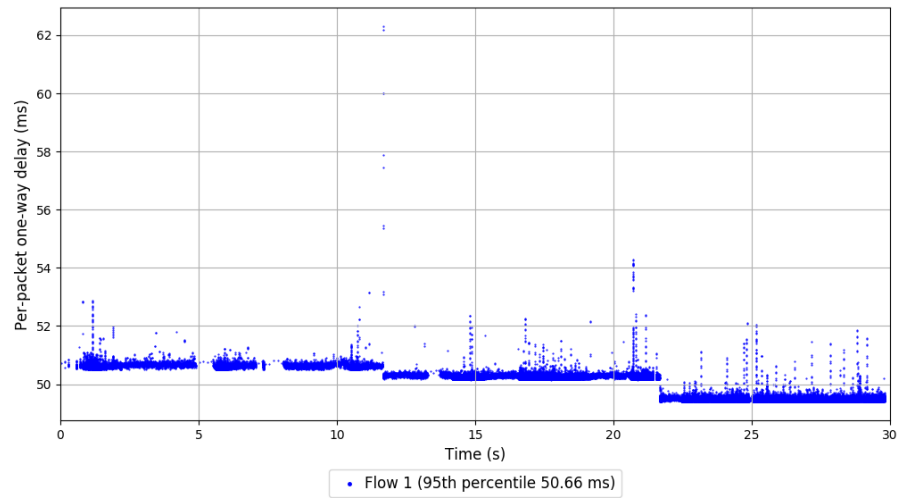
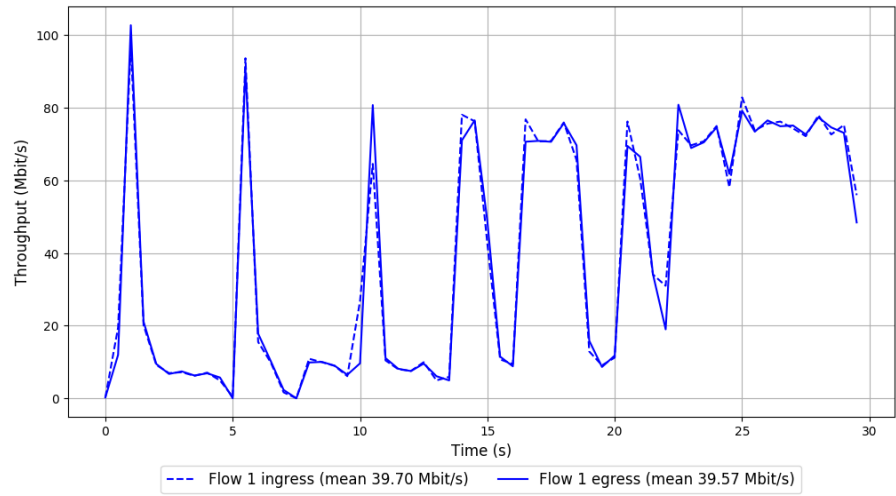
-- Flow 1:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 50.655 ms

Loss rate: 0.65%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 15:07:03

End at: 2017-09-21 15:07:33

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.91 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.49%

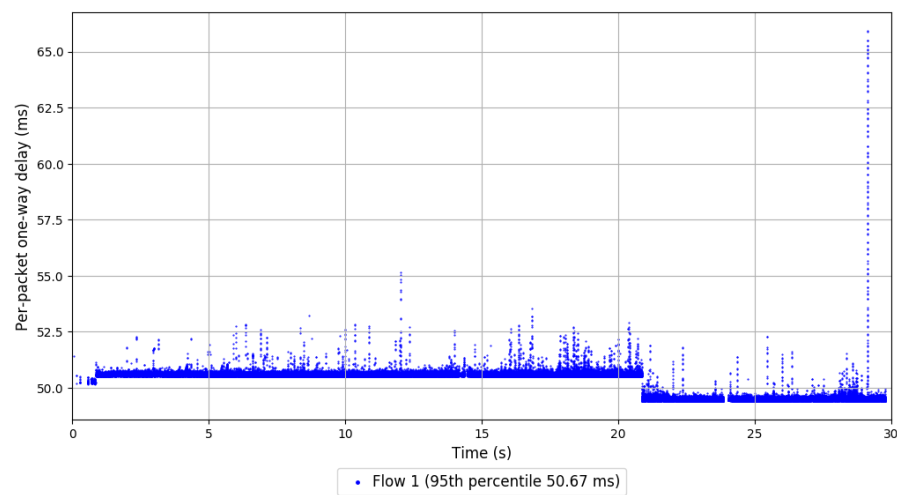
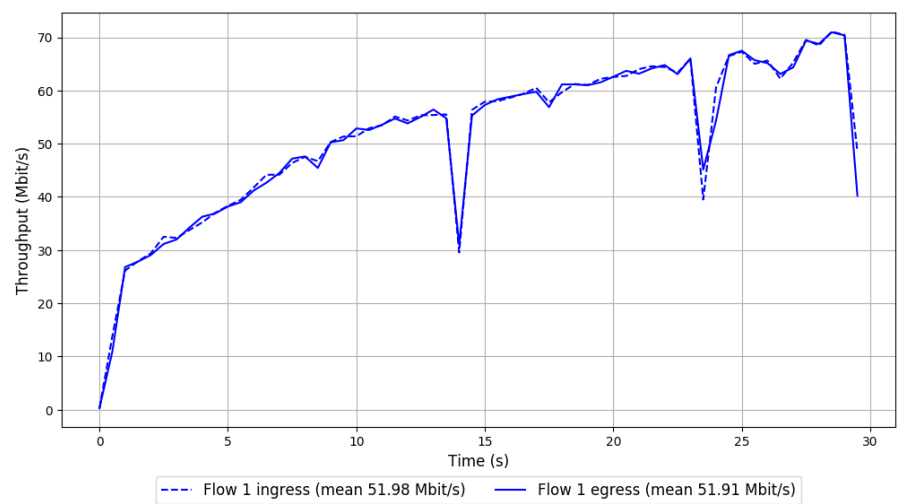
-- Flow 1:

Average throughput: 51.91 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.49%

Run 5: Report of QUIC Cubic — Data Link

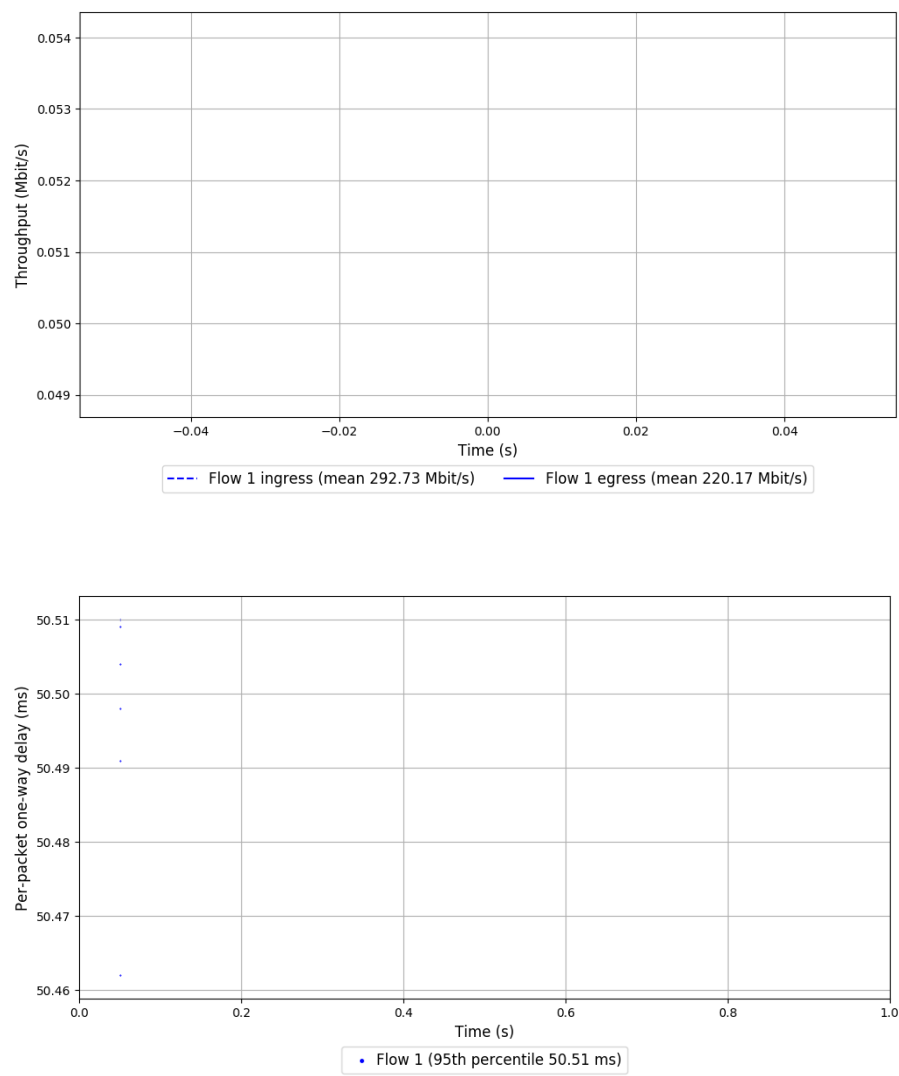


Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 15:17:36

End at: 2017-09-21 15:18:06

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 15:28:10

End at: 2017-09-21 15:28:40

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.78%

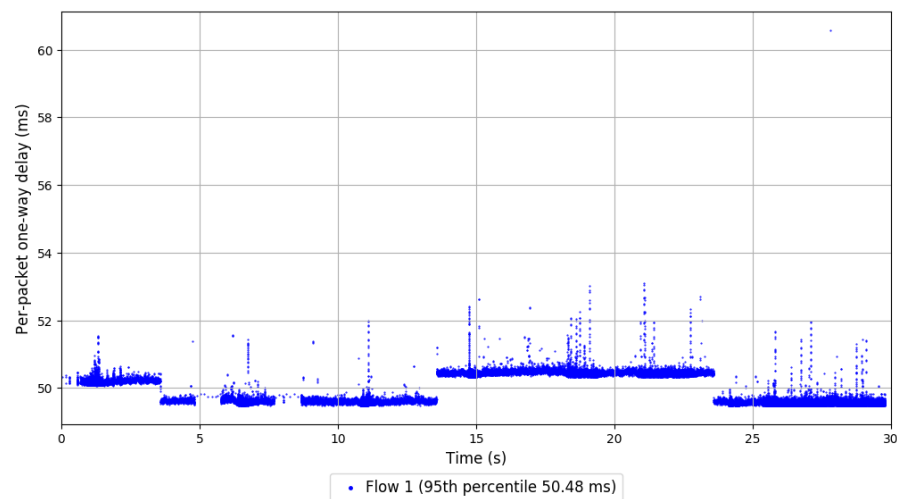
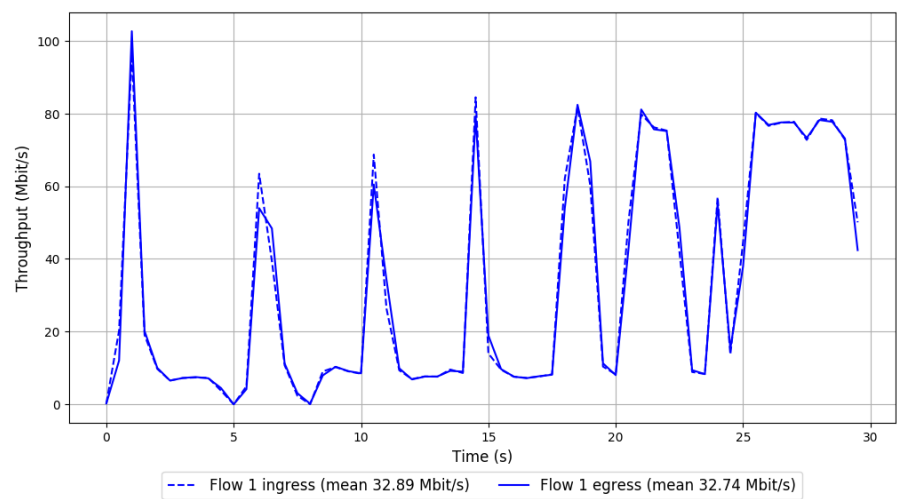
-- Flow 1:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.78%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 15:38:52

End at: 2017-09-21 15:39:22

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 50.660 ms

Loss rate: 0.67%

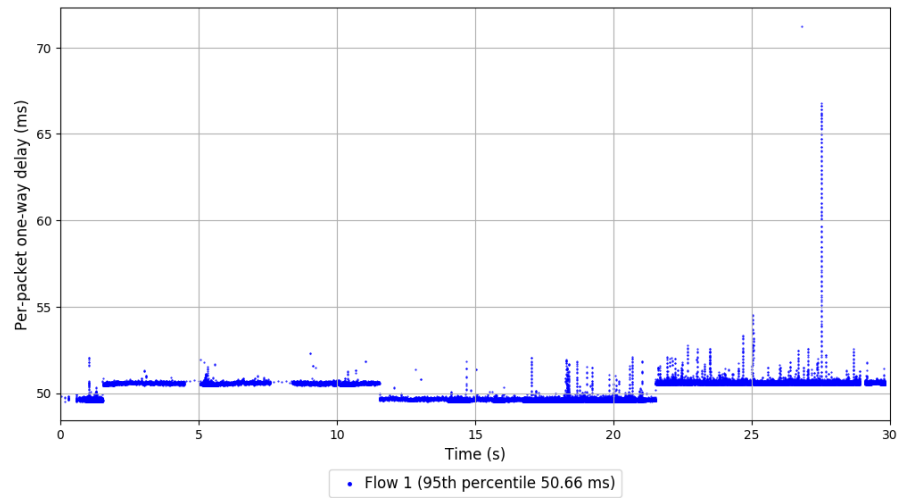
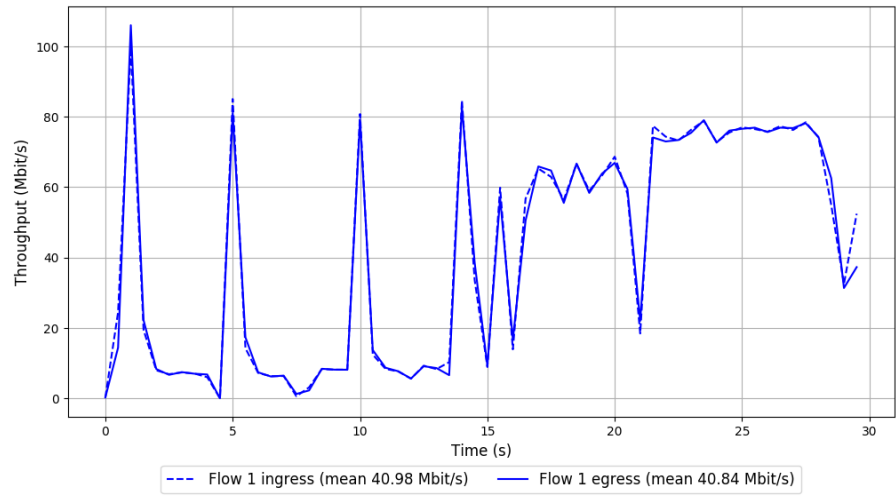
-- Flow 1:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 50.660 ms

Loss rate: 0.67%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 15:49:31

End at: 2017-09-21 15:50:02

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.46 Mbit/s

95th percentile per-packet one-way delay: 50.472 ms

Loss rate: 0.65%

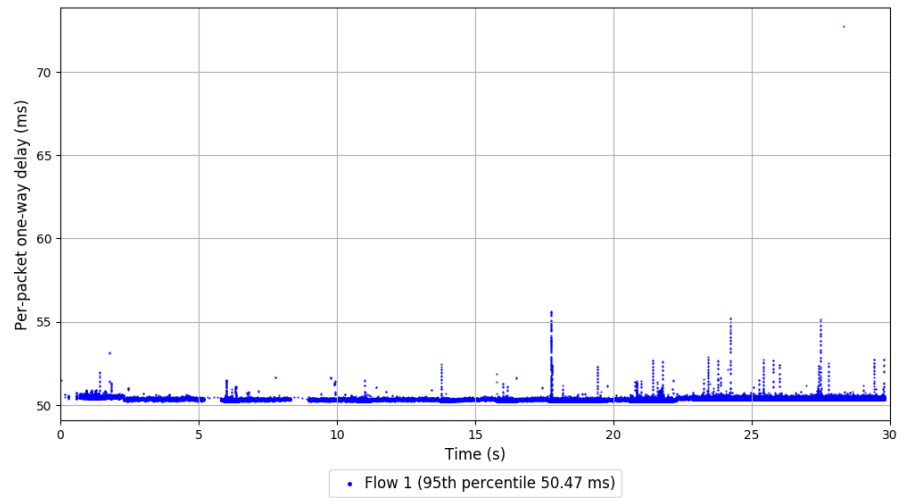
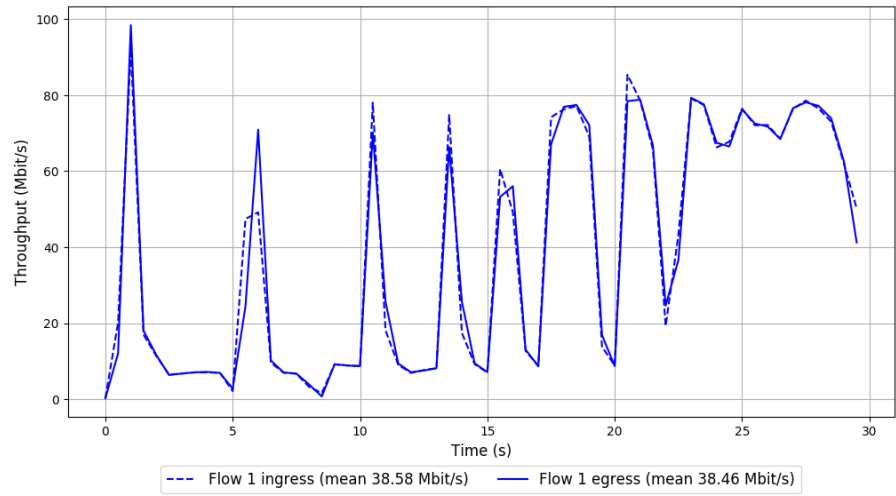
-- Flow 1:

Average throughput: 38.46 Mbit/s

95th percentile per-packet one-way delay: 50.472 ms

Loss rate: 0.65%

Run 9: Report of QUIC Cubic — Data Link

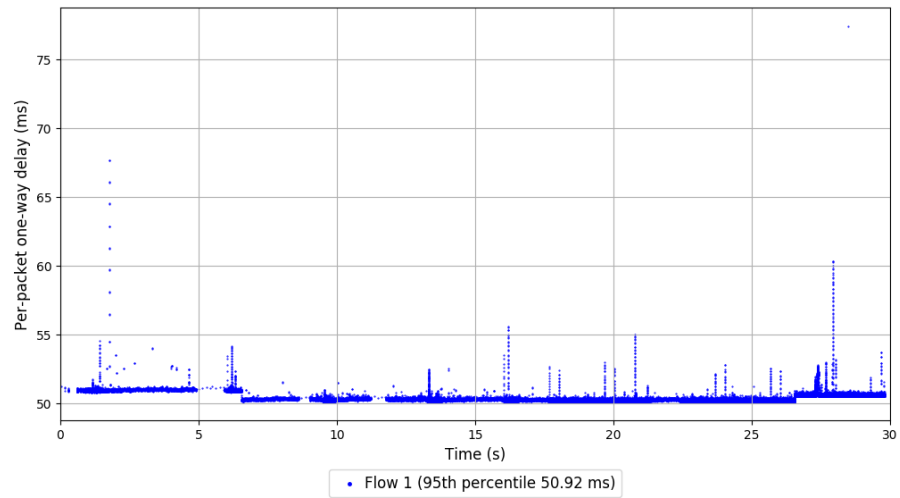
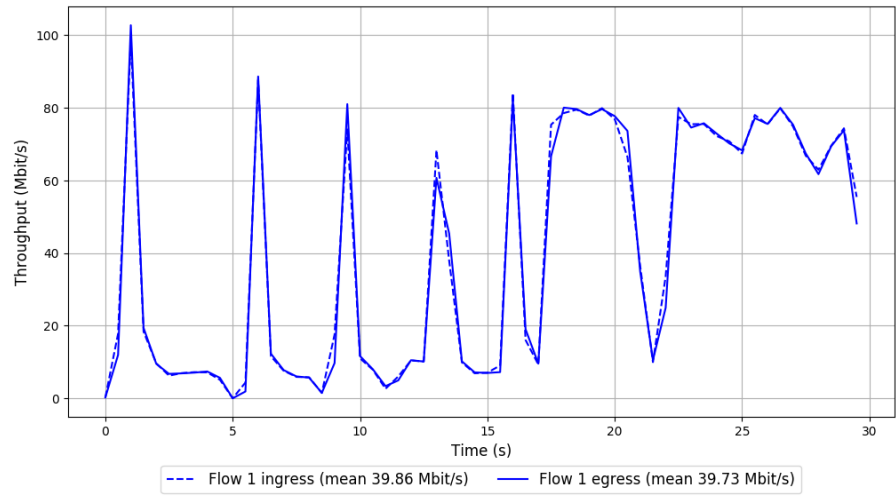


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 16:00:17
End at: 2017-09-21 16:00:47

# Below is generated by plot.py at 2017-09-21 18:27:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 50.920 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 50.920 ms
Loss rate: 0.65%
```

Run 10: Report of QUIC Cubic — Data Link

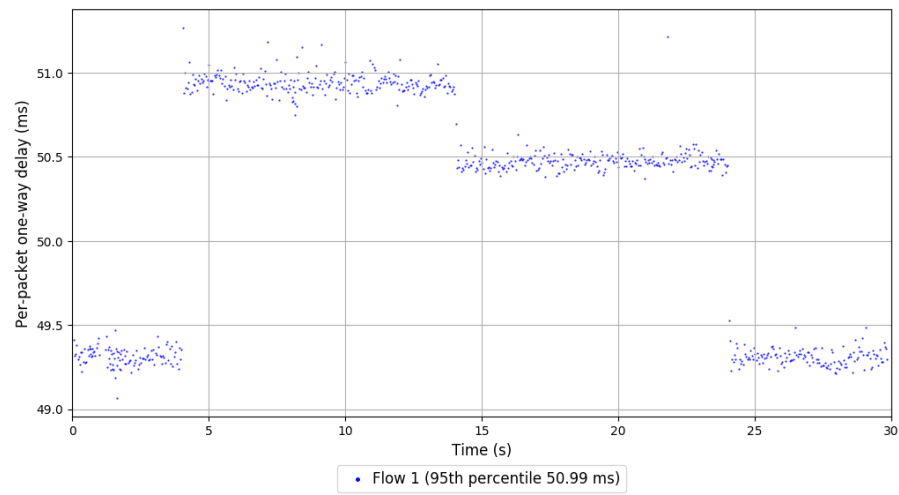
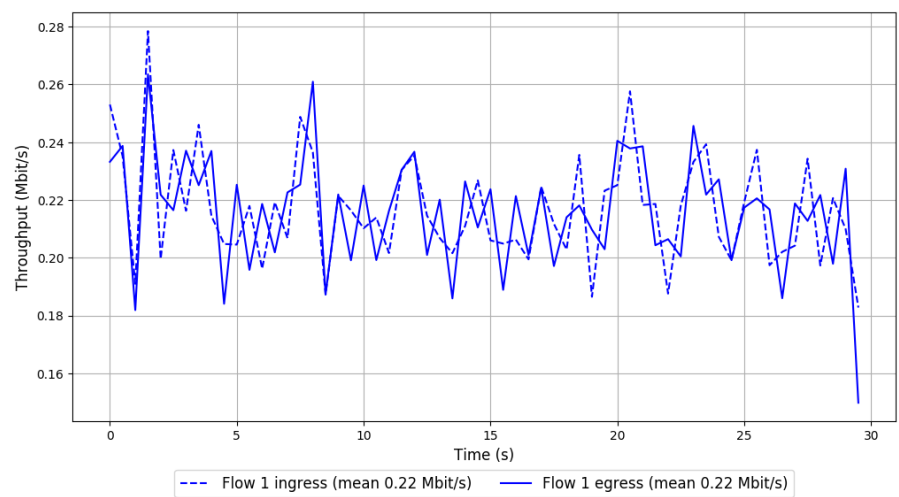


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 14:31:00
End at: 2017-09-21 14:31:30

# Below is generated by plot.py at 2017-09-21 18:27:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.988 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.988 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-09-21 14:41:27

End at: 2017-09-21 14:41:57

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.943 ms

Loss rate: 0.38%

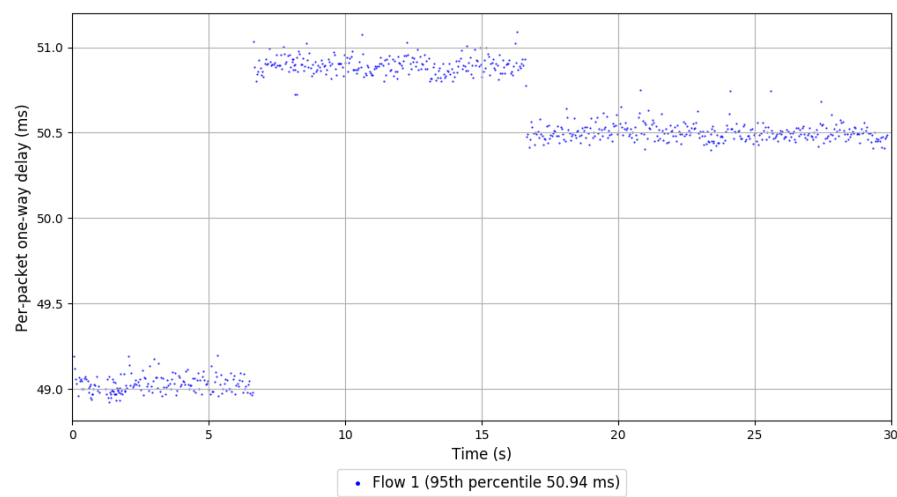
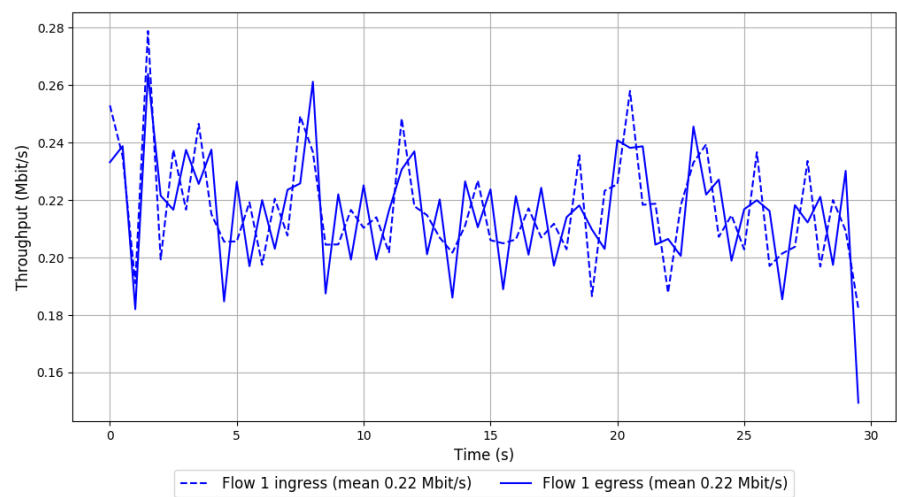
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.943 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 14:52:13

End at: 2017-09-21 14:52:43

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.782 ms

Loss rate: 0.38%

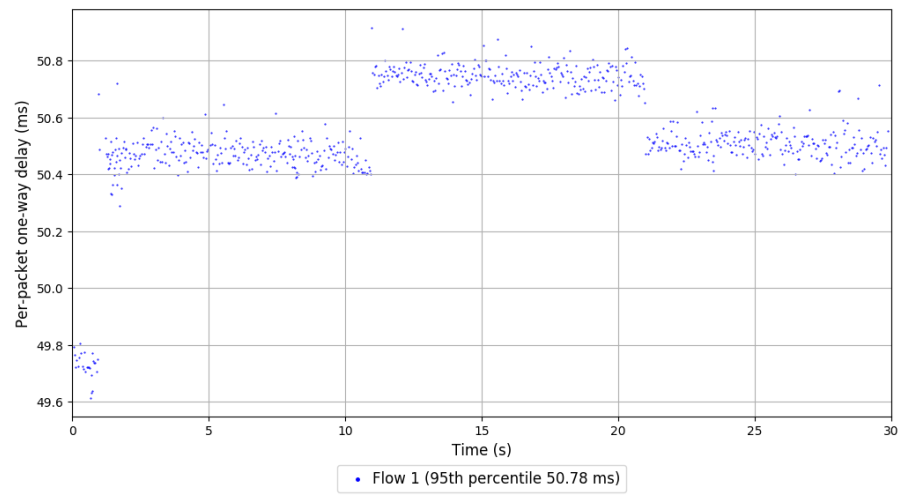
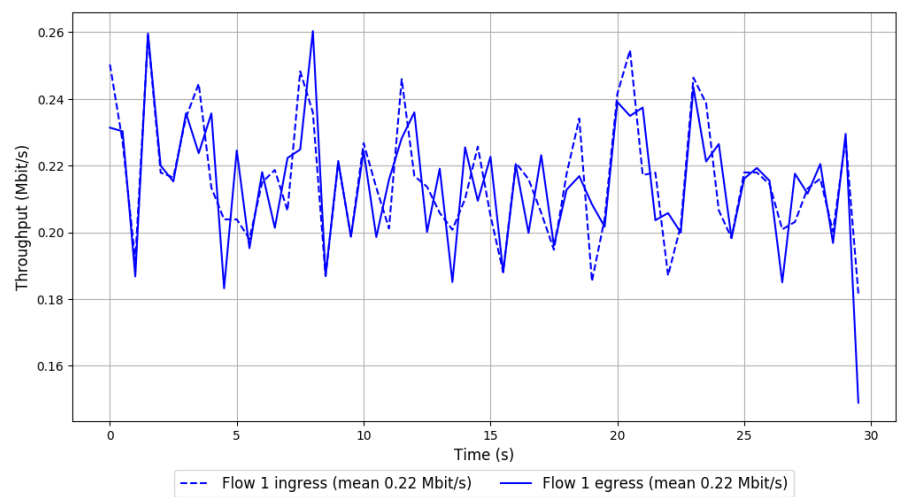
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.782 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-21 15:02:51

End at: 2017-09-21 15:03:21

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

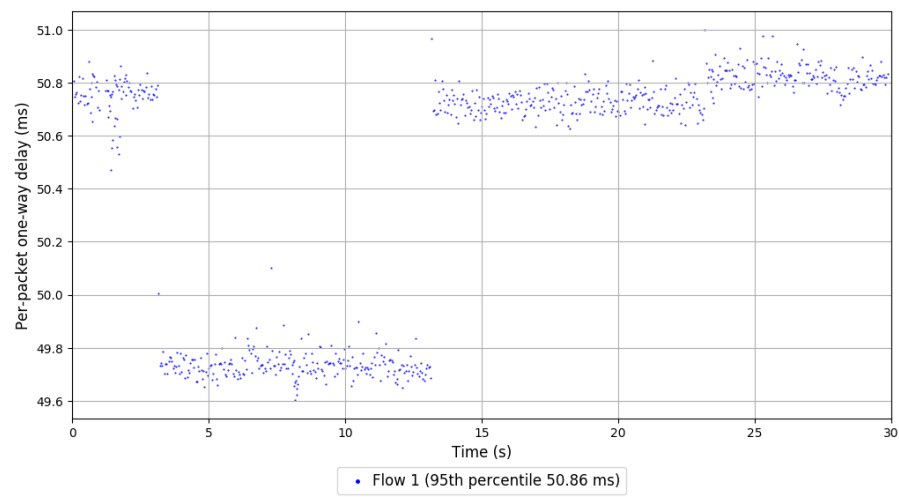
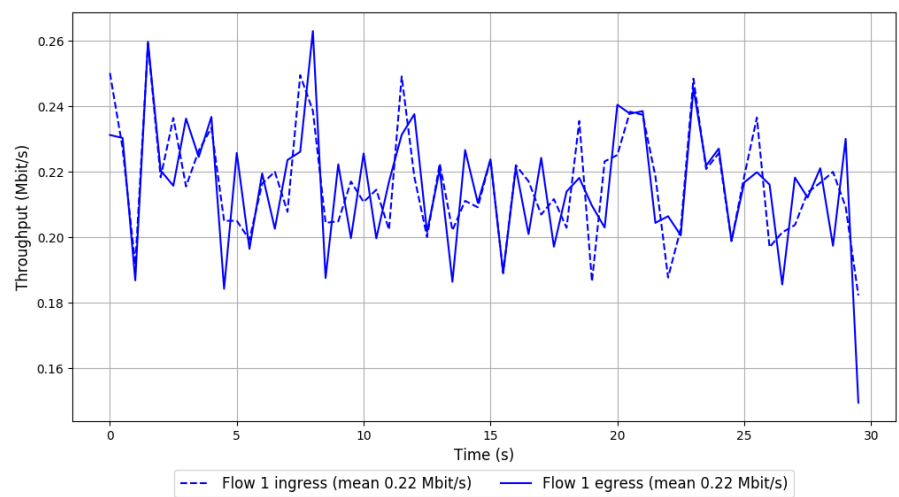
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 15:13:35

End at: 2017-09-21 15:14:05

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.51%

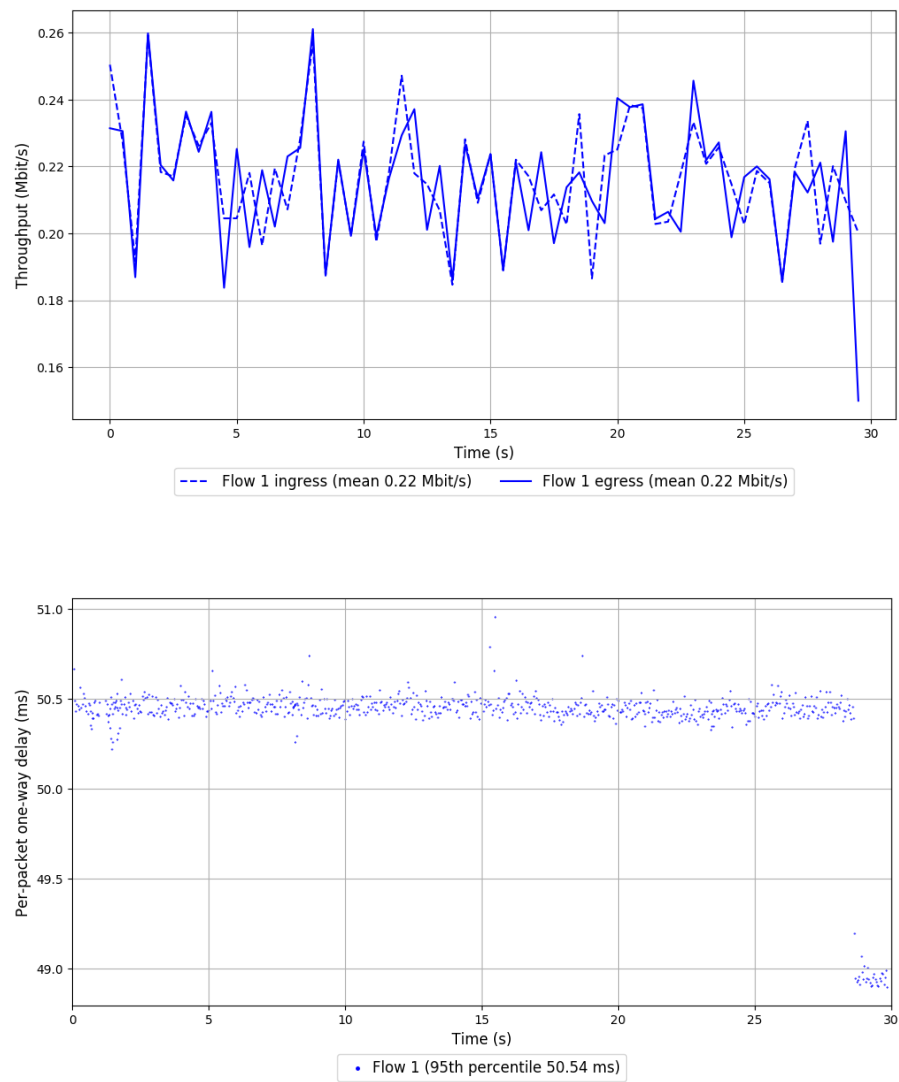
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-21 15:23:59

End at: 2017-09-21 15:24:29

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.545 ms

Loss rate: 0.38%

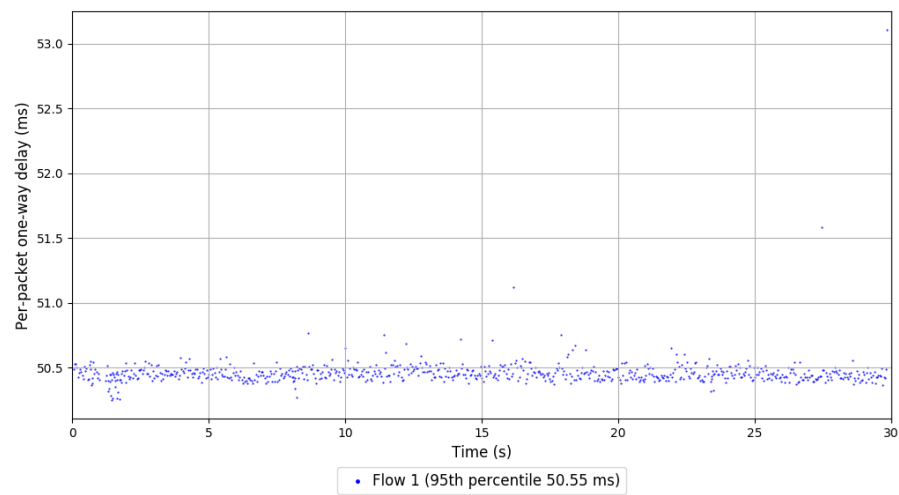
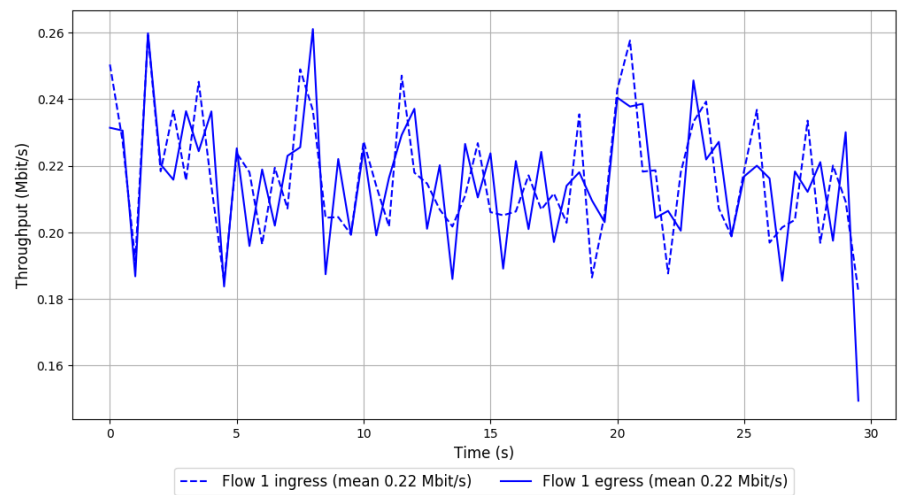
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.545 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-21 15:34:42

End at: 2017-09-21 15:35:12

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.867 ms

Loss rate: 0.38%

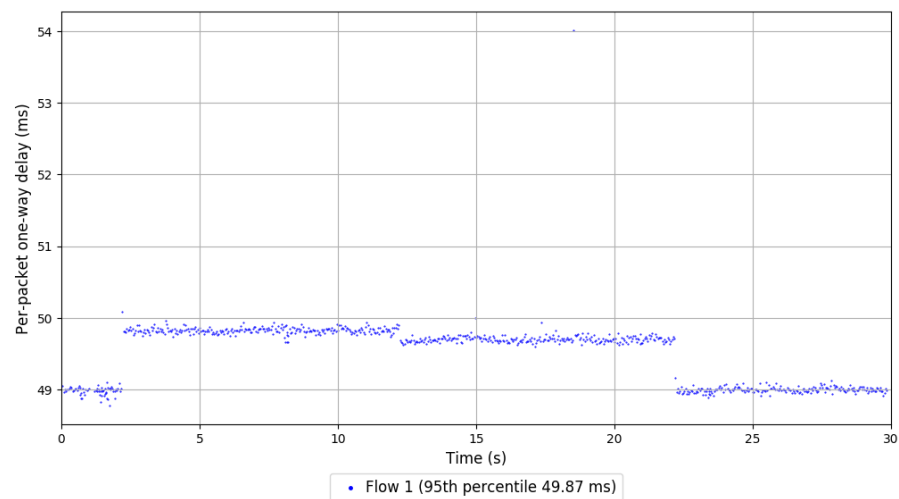
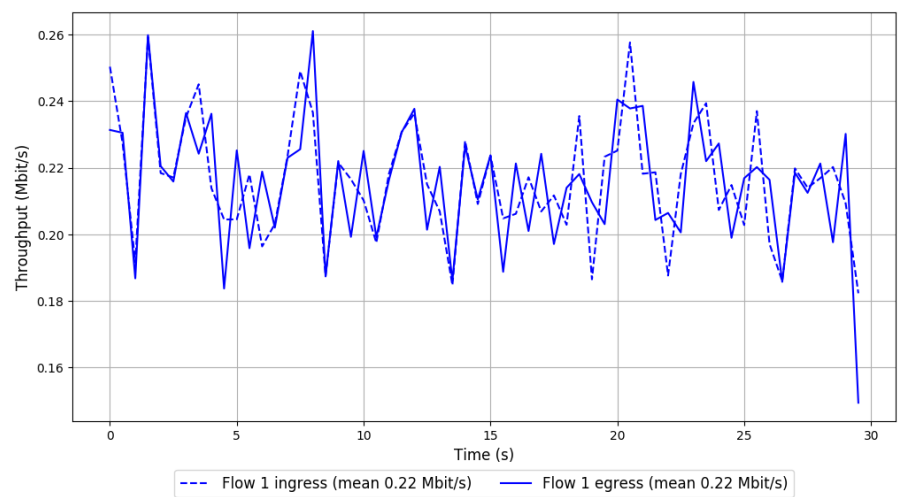
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.867 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 15:45:19

End at: 2017-09-21 15:45:49

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.383 ms

Loss rate: 0.26%

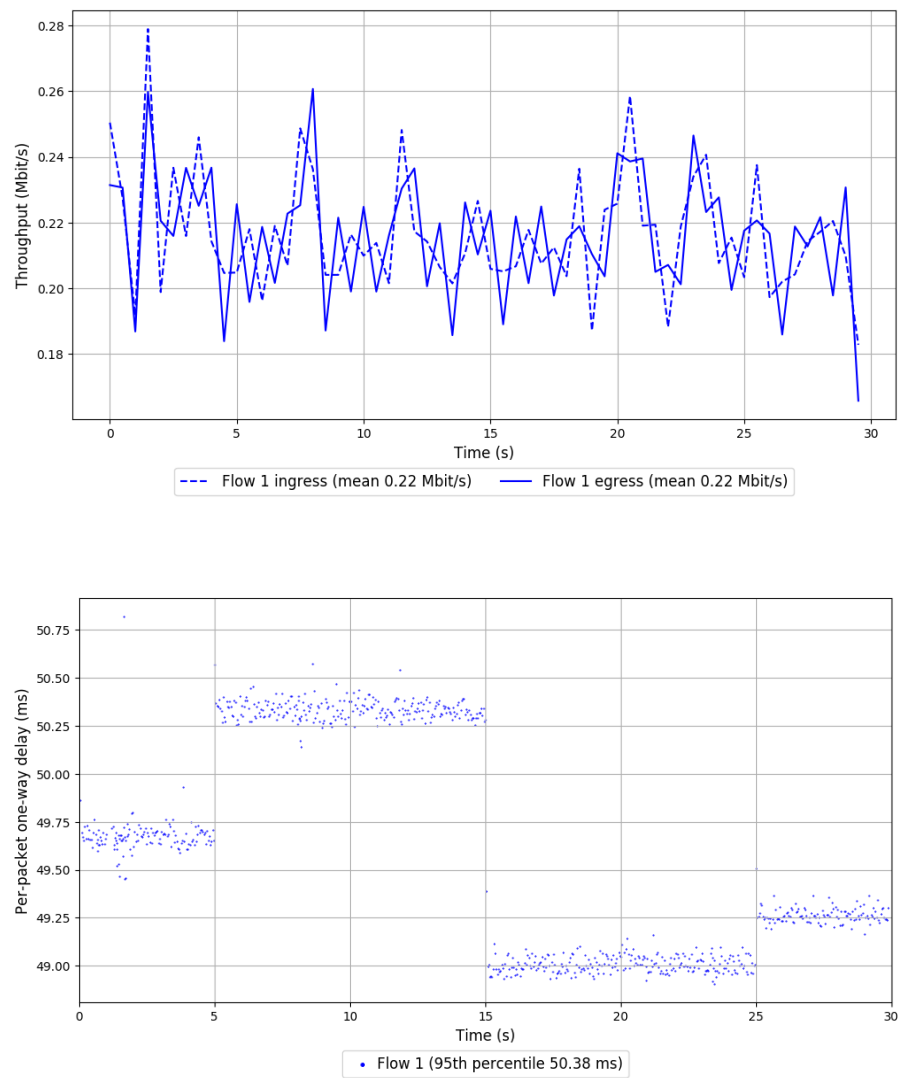
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.383 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-21 15:56:04

End at: 2017-09-21 15:56:34

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.350 ms

Loss rate: 0.38%

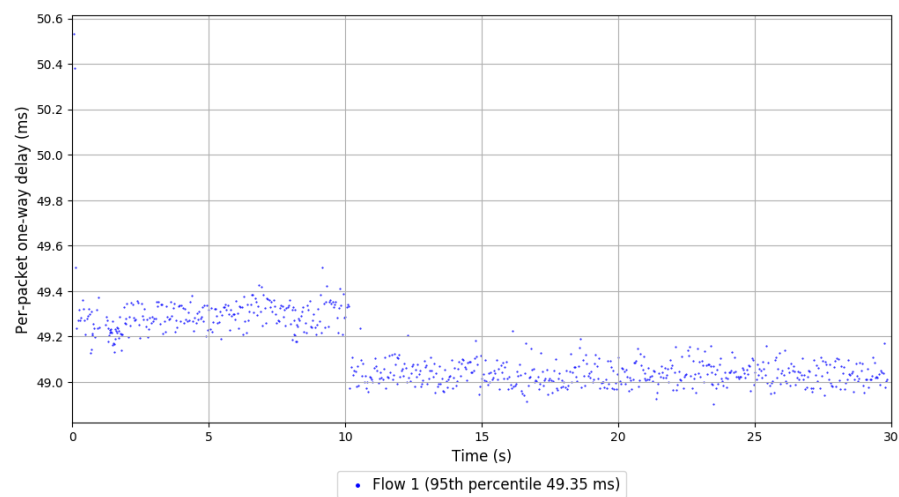
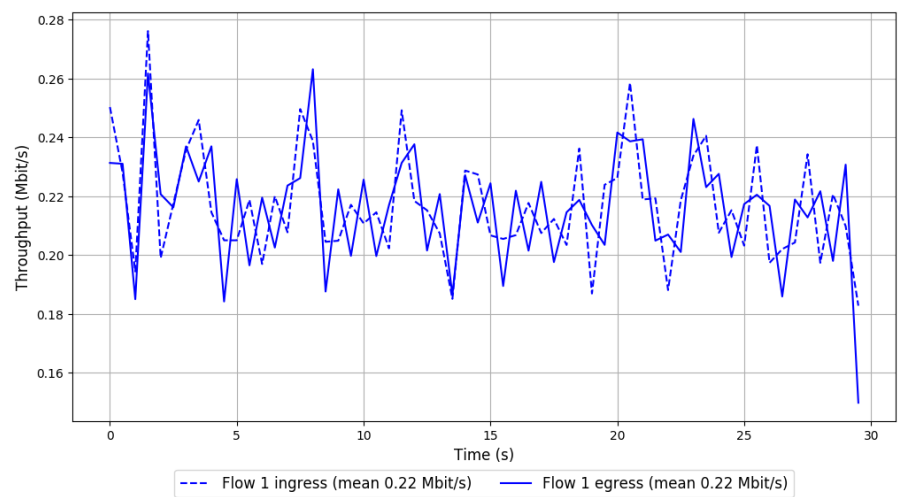
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.350 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

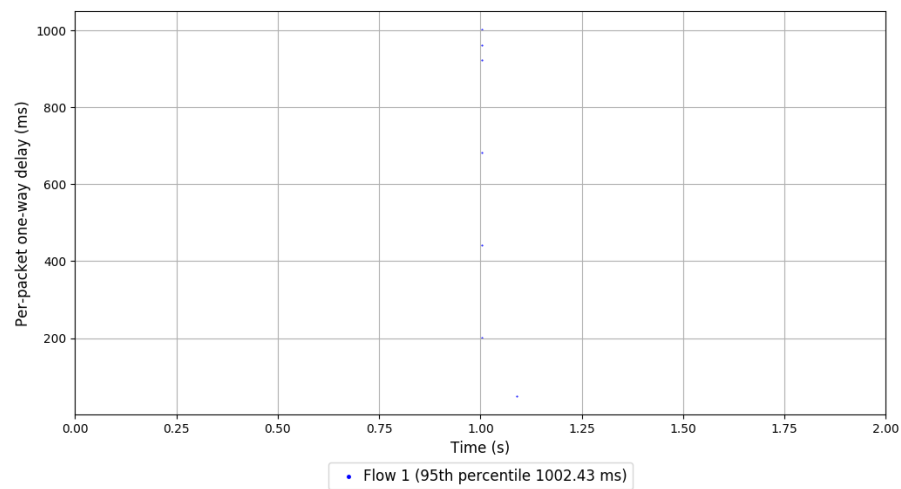
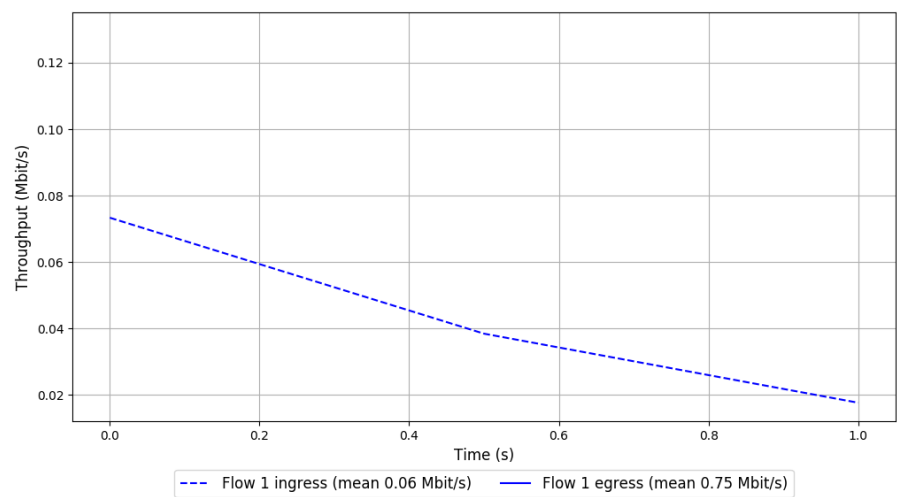


Run 10: Statistics of SReAM

Start at: 2017-09-21 16:06:48

End at: 2017-09-21 16:07:19

Run 10: Report of SCReAM — Data Link

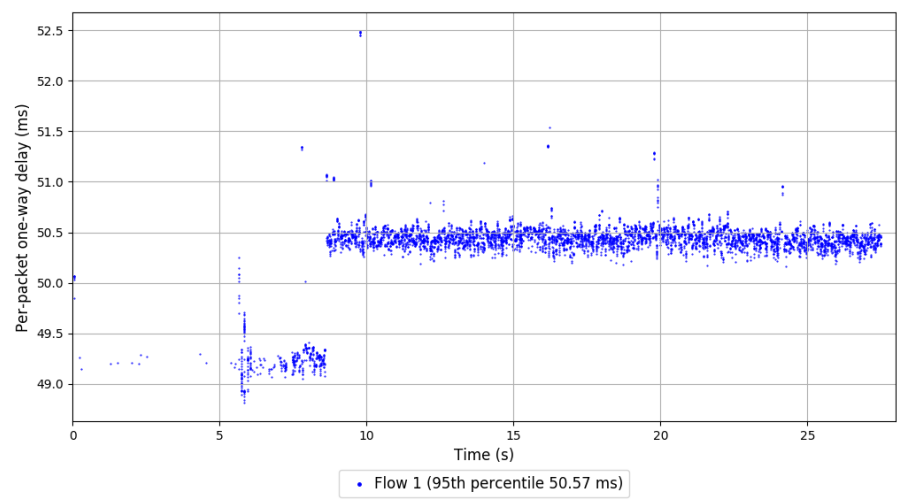
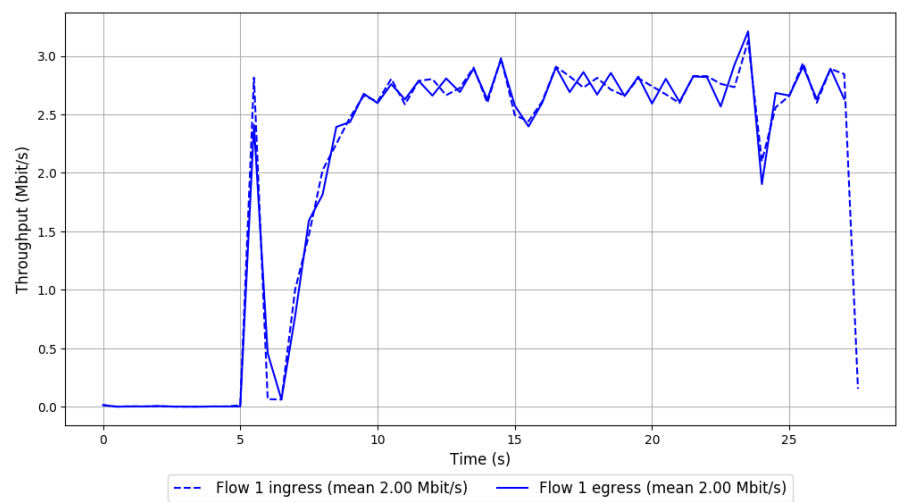


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 14:28:53
End at: 2017-09-21 14:29:23

# Below is generated by plot.py at 2017-09-21 18:27:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 50.573 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 50.573 ms
Loss rate: 0.53%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 14:39:13

End at: 2017-09-21 14:39:43

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.66%

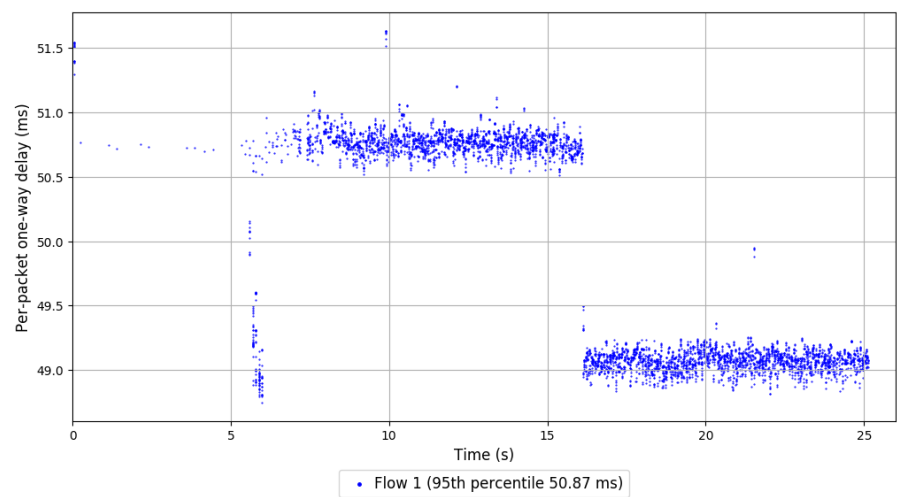
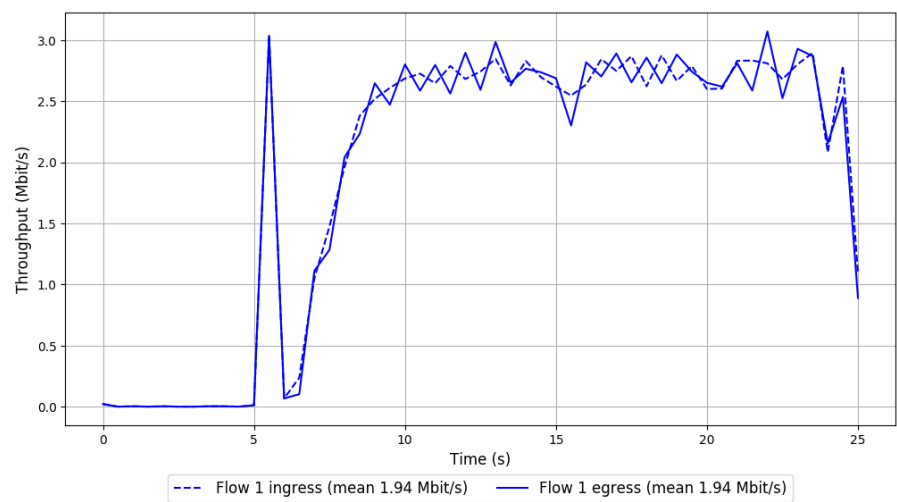
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.66%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 14:49:56

End at: 2017-09-21 14:50:26

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 50.204 ms

Loss rate: 0.42%

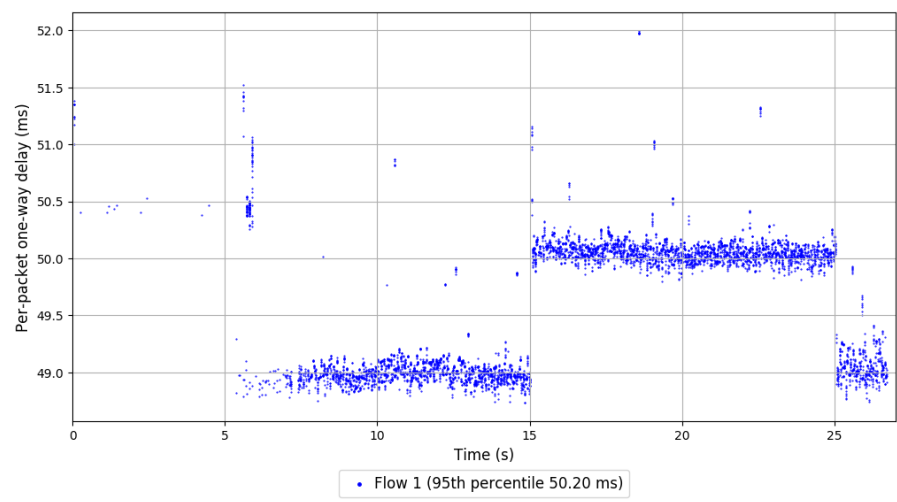
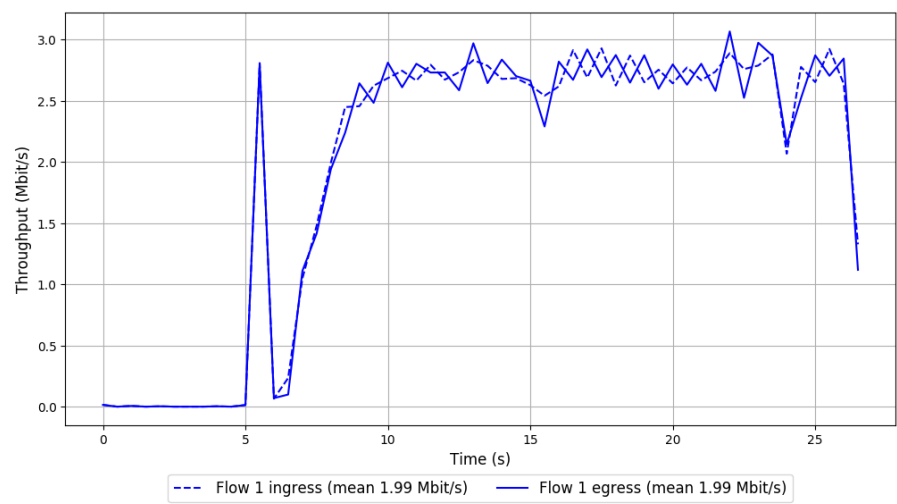
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 50.204 ms

Loss rate: 0.42%

Run 3: Report of WebRTC media — Data Link

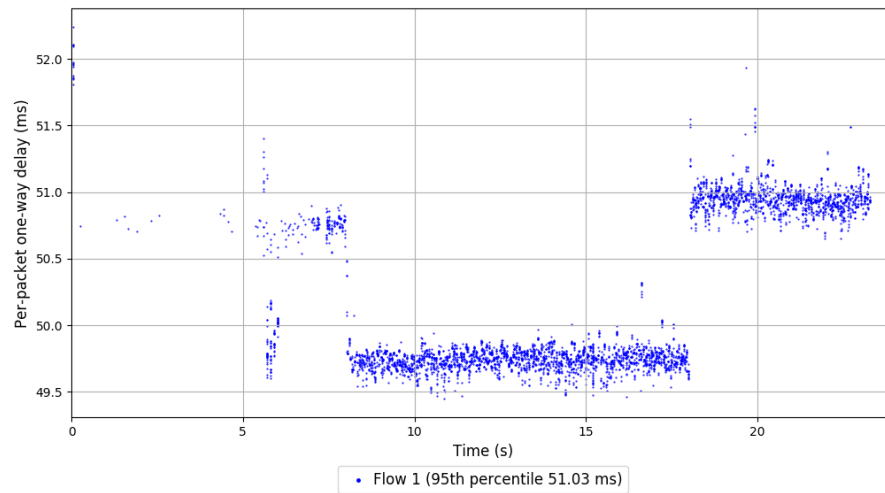
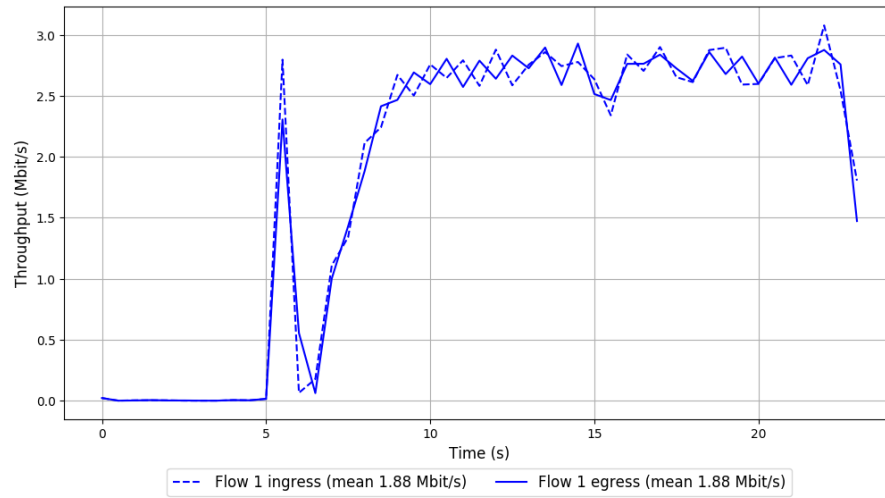


Run 4: Statistics of WebRTC media

Start at: 2017-09-21 15:00:39

End at: 2017-09-21 15:01:09

Run 4: Report of WebRTC media — Data Link

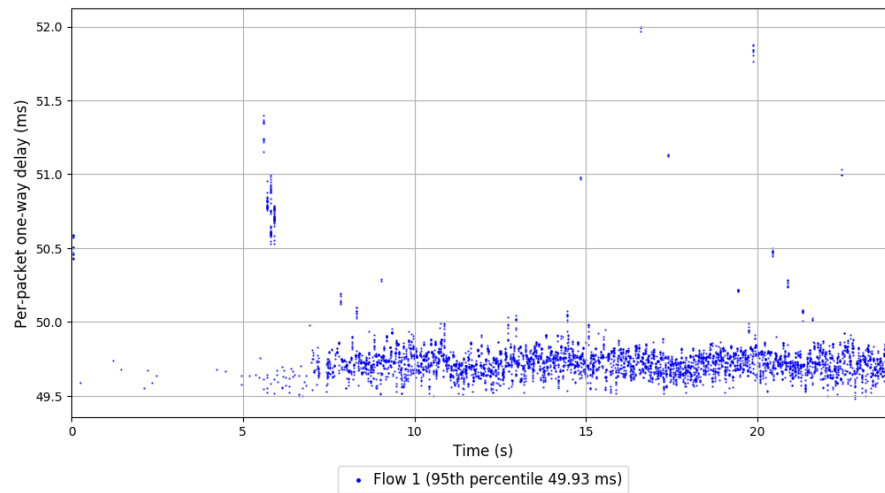
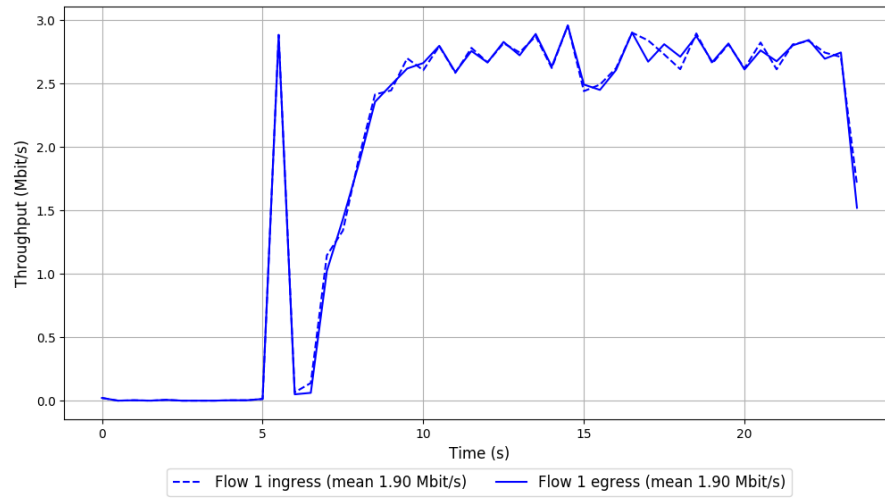


Run 5: Statistics of WebRTC media

Start at: 2017-09-21 15:11:21

End at: 2017-09-21 15:11:51

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 15:21:45

End at: 2017-09-21 15:22:15

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.827 ms

Loss rate: 0.45%

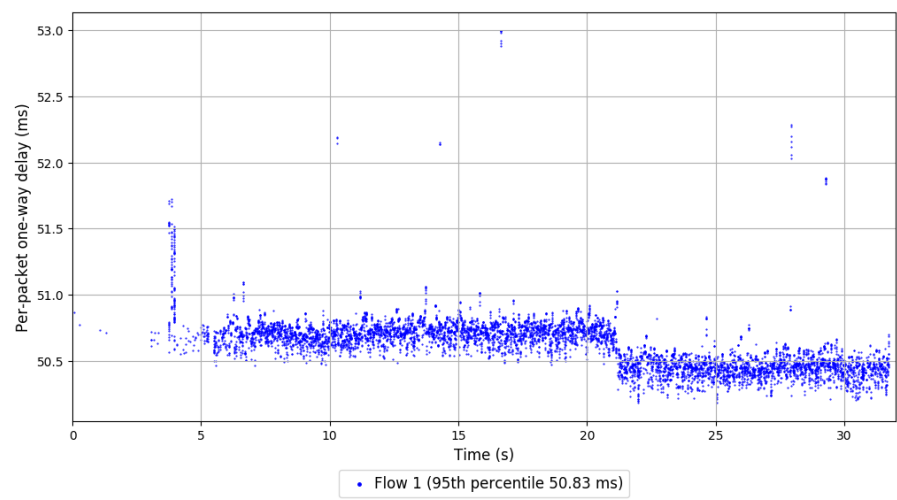
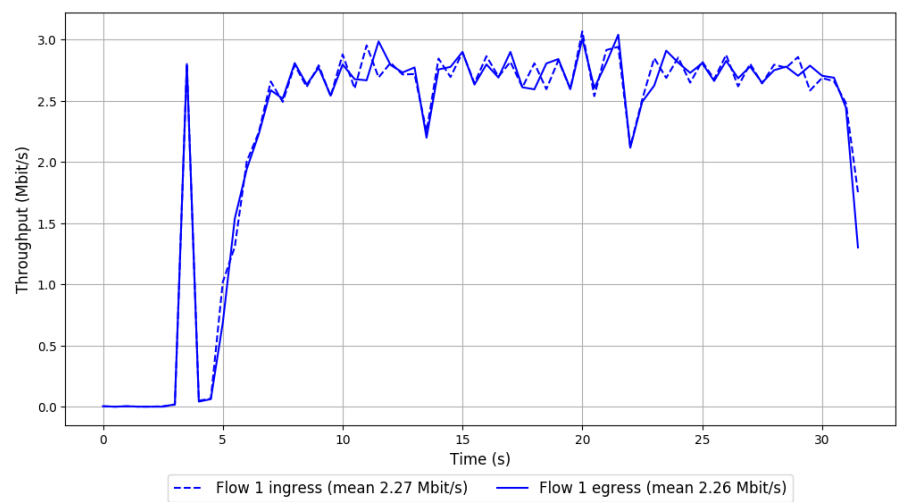
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.827 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link

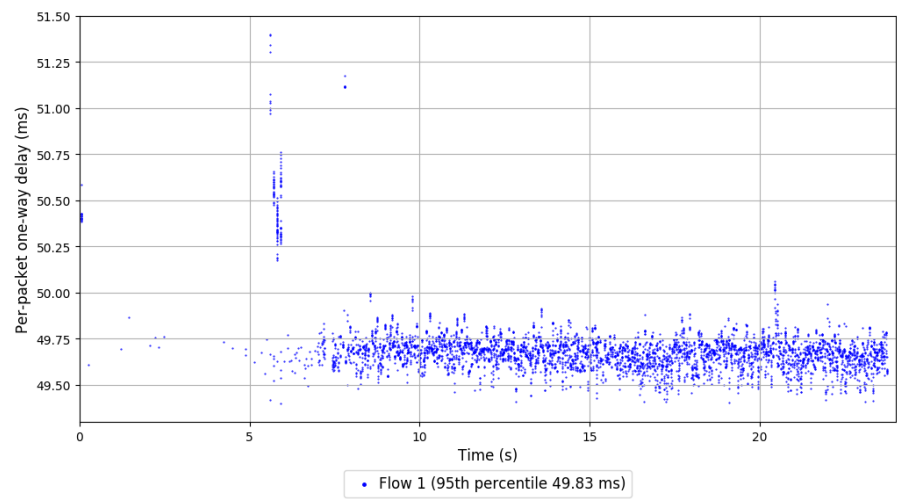
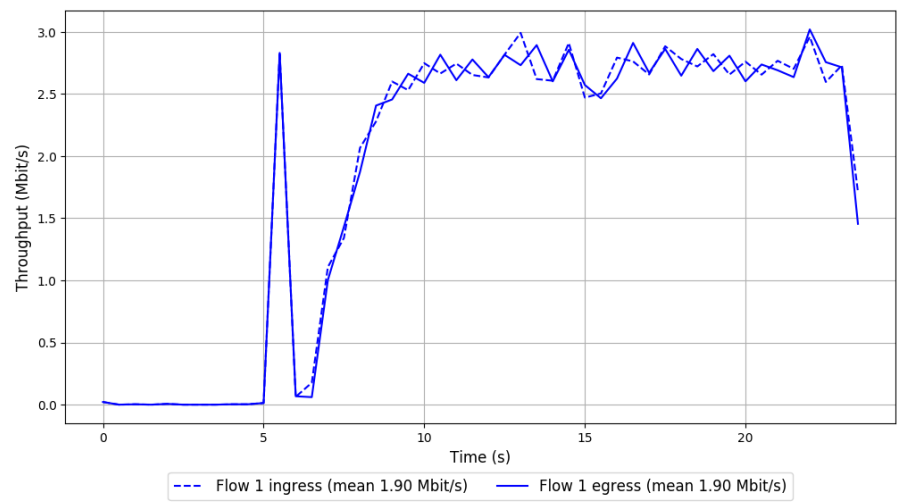


Run 7: Statistics of WebRTC media

Start at: 2017-09-21 15:32:26

End at: 2017-09-21 15:32:57

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 15:43:08

End at: 2017-09-21 15:43:38

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 51.033 ms

Loss rate: 0.29%

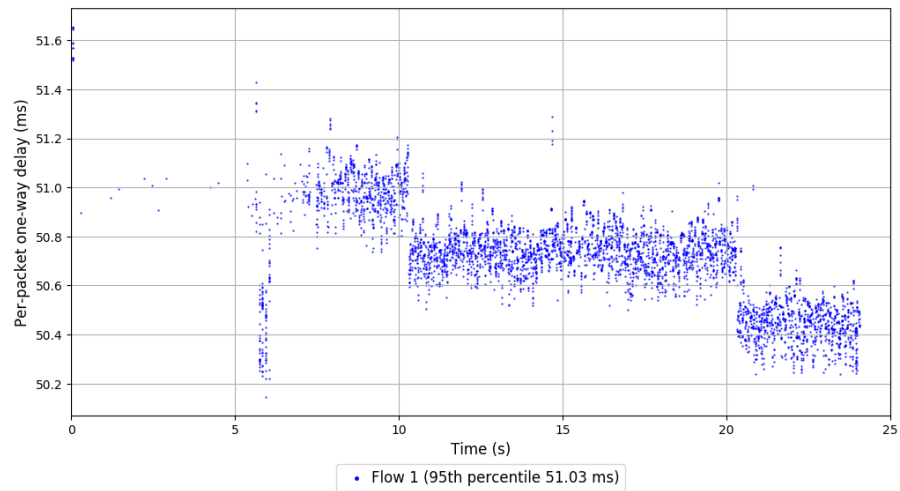
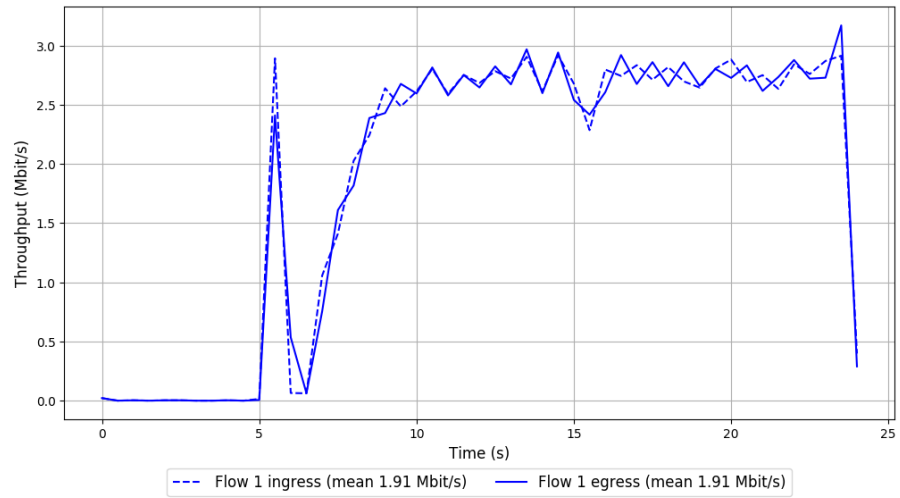
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 51.033 ms

Loss rate: 0.29%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 15:53:47

End at: 2017-09-21 15:54:17

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 50.705 ms

Loss rate: 0.36%

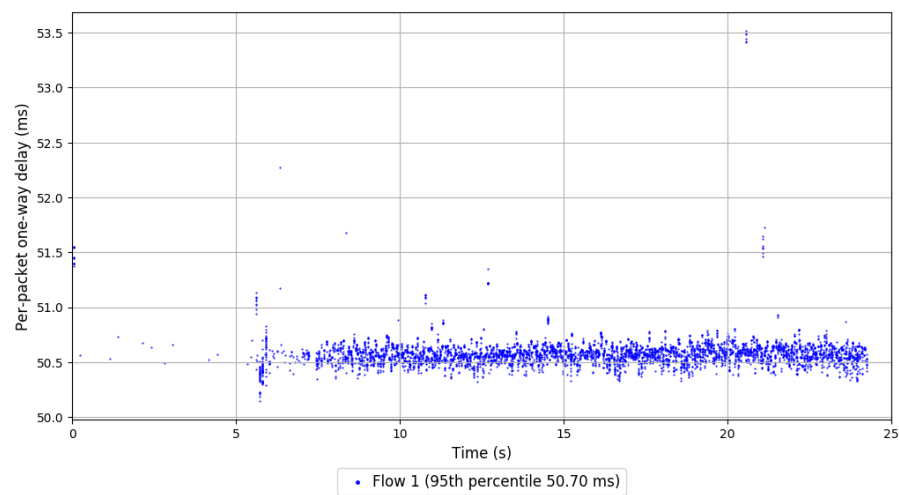
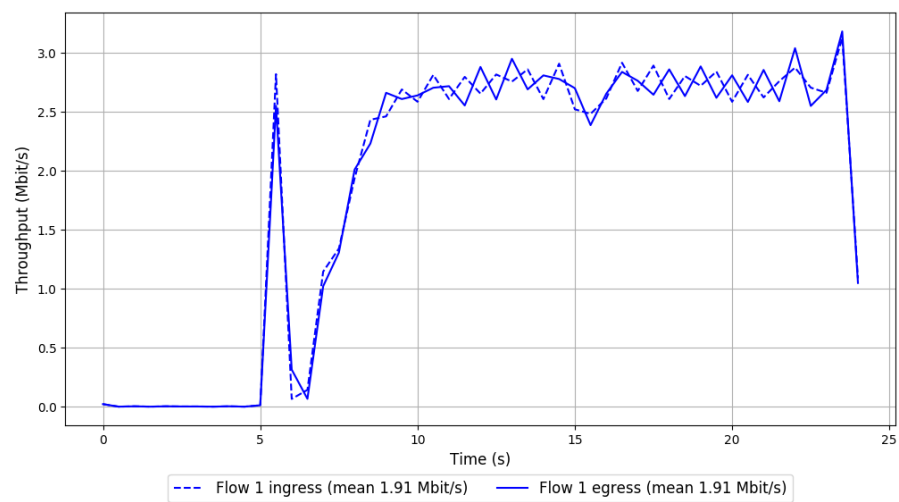
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 50.705 ms

Loss rate: 0.36%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 16:04:36

End at: 2017-09-21 16:05:06

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

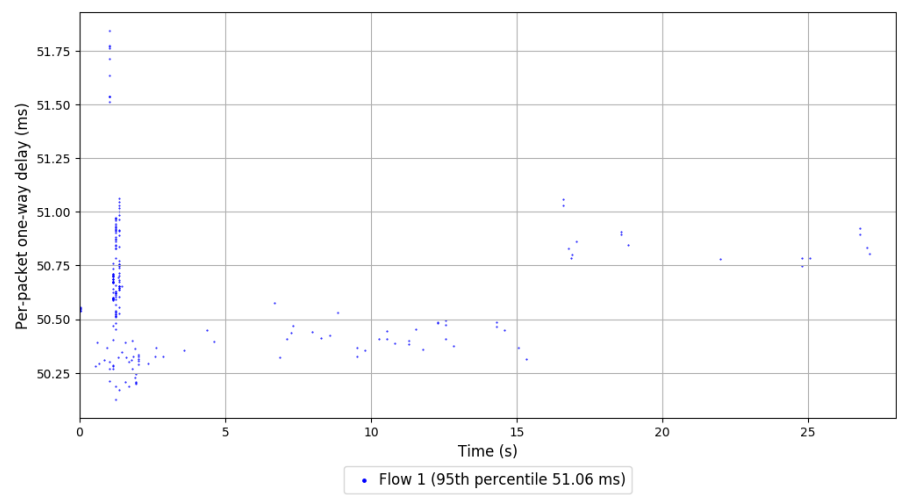
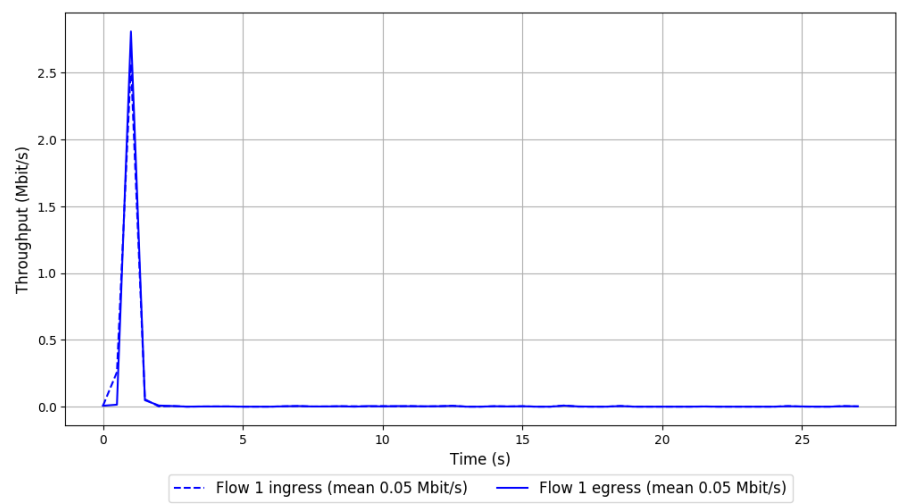
-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-21 14:26:49

End at: 2017-09-21 14:27:19

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.335 ms

Loss rate: 0.07%

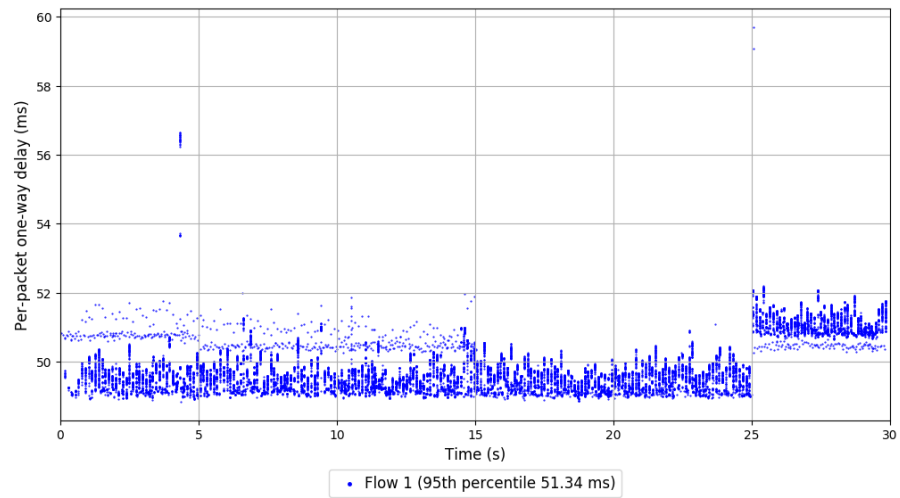
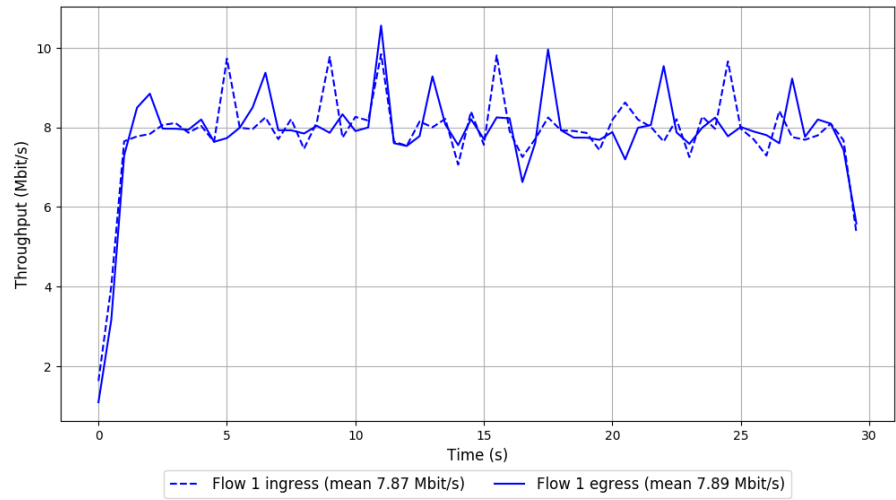
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.335 ms

Loss rate: 0.07%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 14:37:09

End at: 2017-09-21 14:37:40

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.156 ms

Loss rate: 0.55%

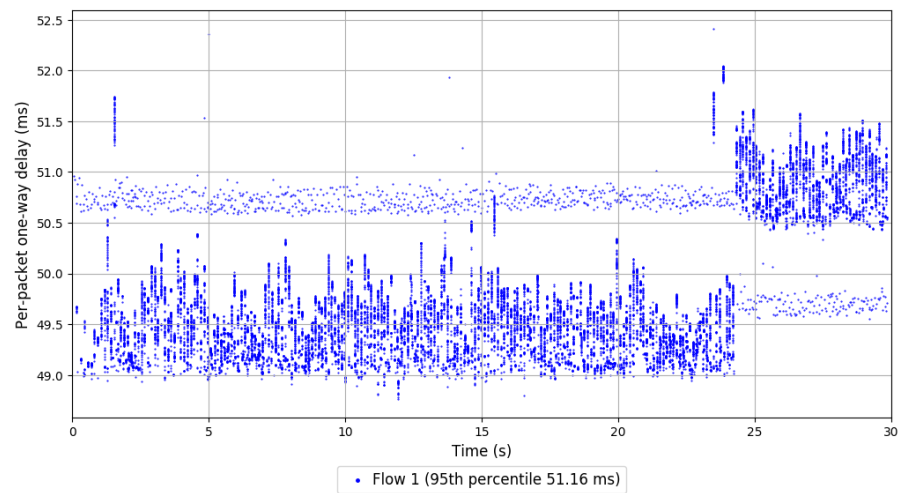
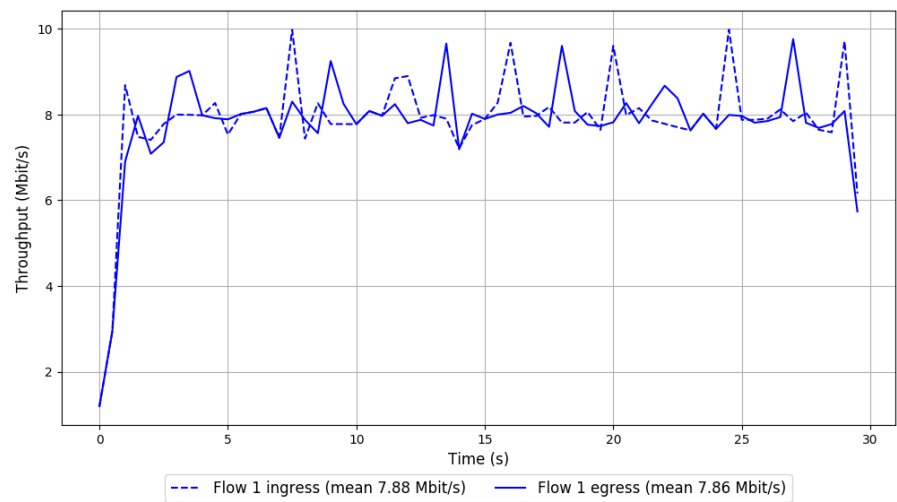
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.156 ms

Loss rate: 0.55%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 14:47:52

End at: 2017-09-21 14:48:22

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.517 ms

Loss rate: 0.38%

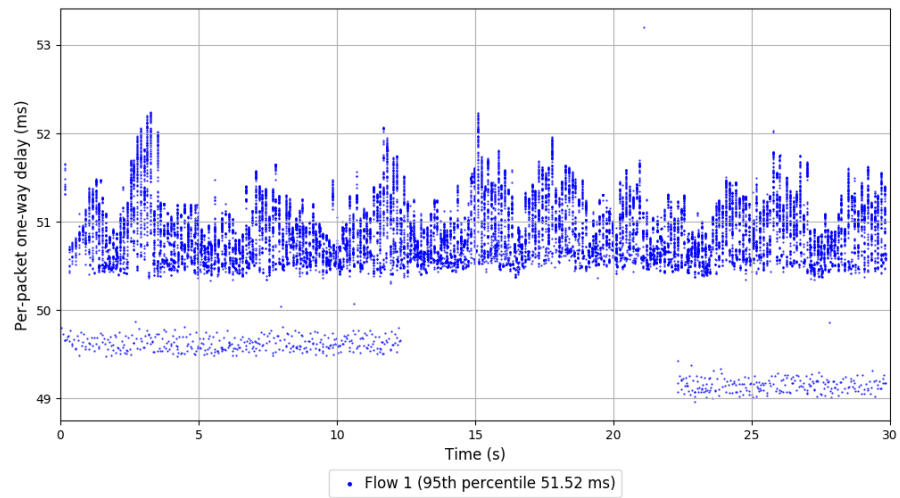
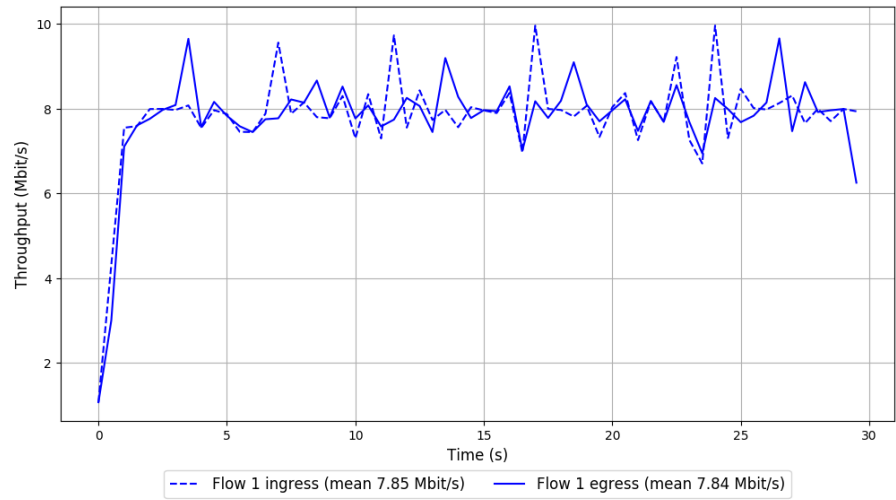
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.517 ms

Loss rate: 0.38%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 14:58:35

End at: 2017-09-21 14:59:05

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.713 ms

Loss rate: 0.49%

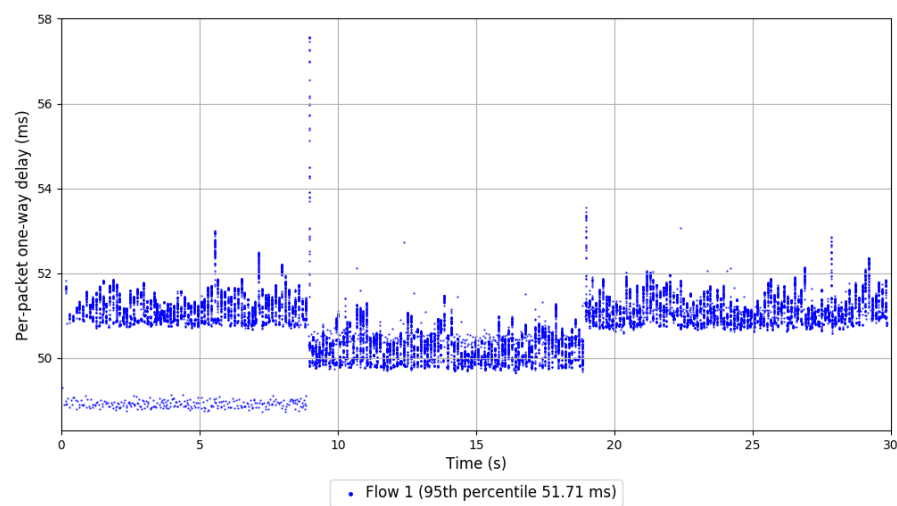
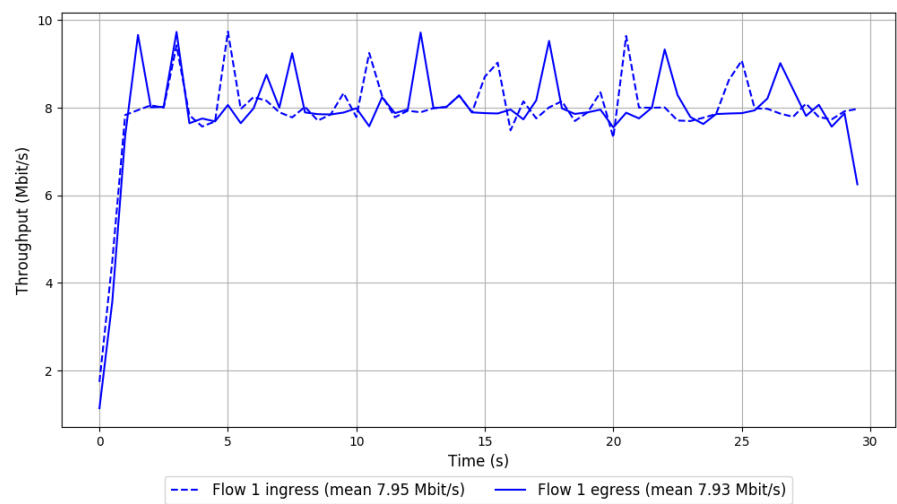
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.713 ms

Loss rate: 0.49%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 15:09:16

End at: 2017-09-21 15:09:46

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.302 ms

Loss rate: 0.52%

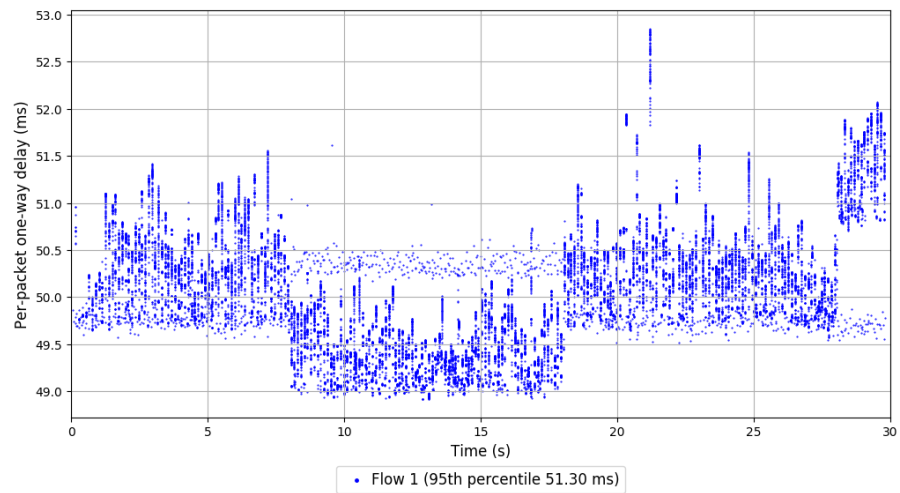
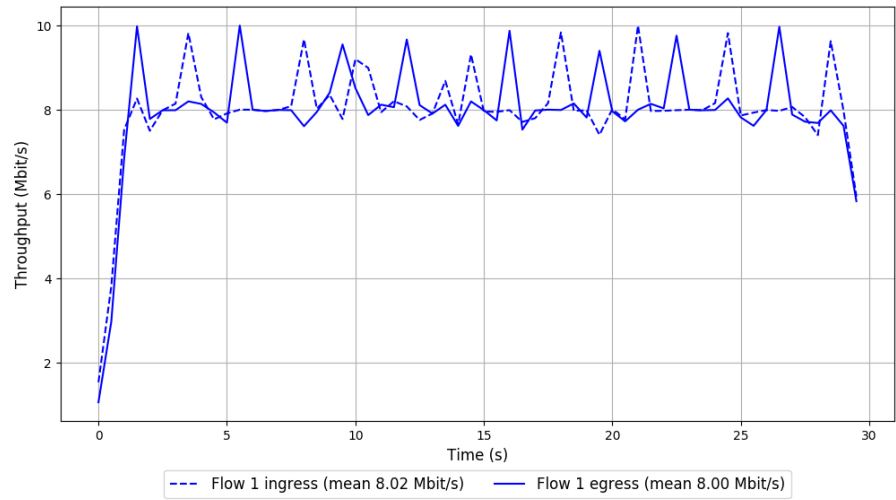
-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.302 ms

Loss rate: 0.52%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 15:19:40

End at: 2017-09-21 15:20:10

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.548 ms

Loss rate: 0.59%

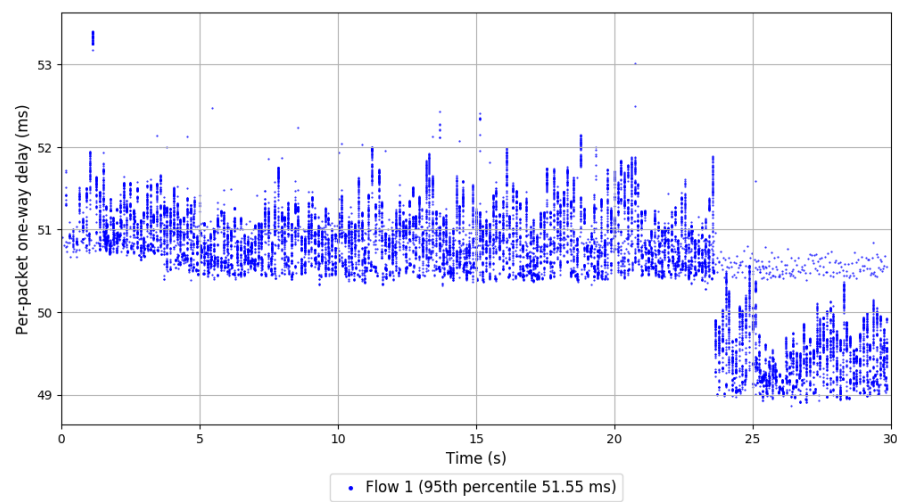
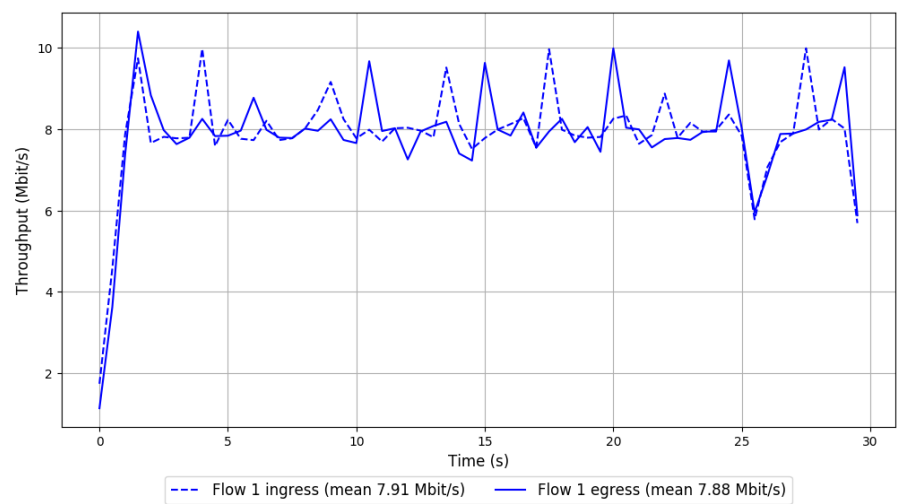
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.548 ms

Loss rate: 0.59%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 15:30:22

End at: 2017-09-21 15:30:52

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.846 ms

Loss rate: 0.42%

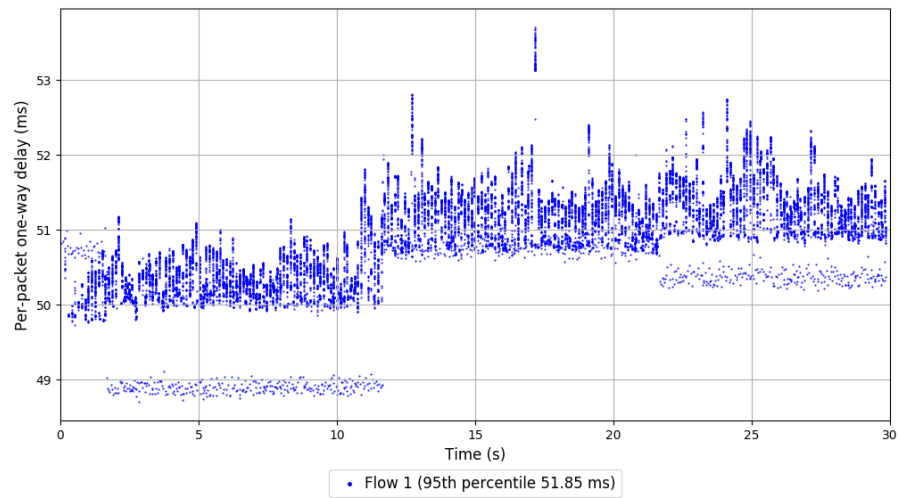
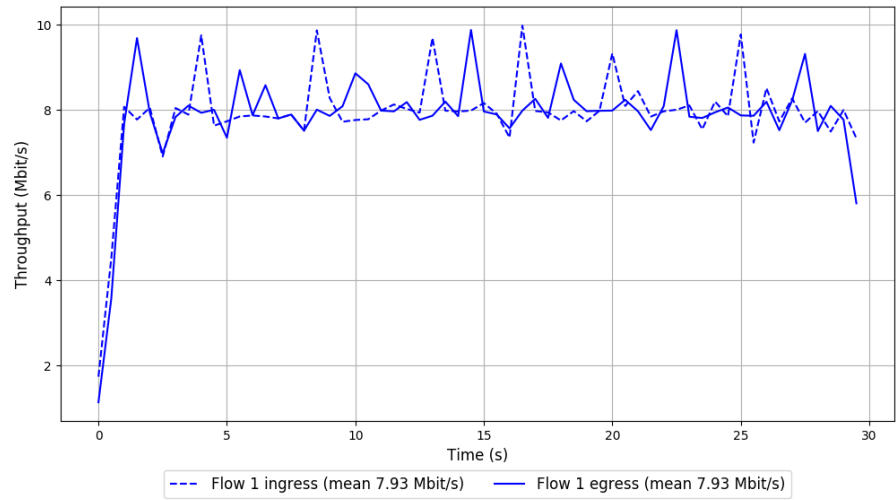
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.846 ms

Loss rate: 0.42%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 15:41:04

End at: 2017-09-21 15:41:34

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

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

Loss rate: 0.47%

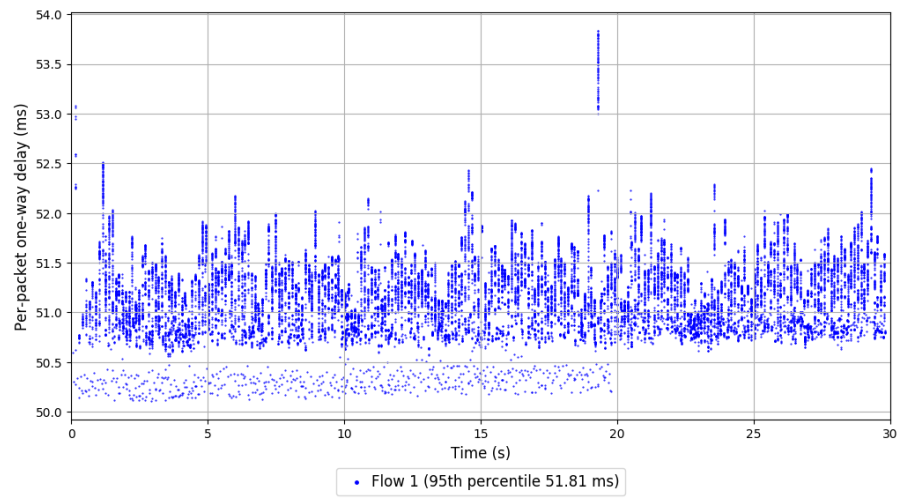
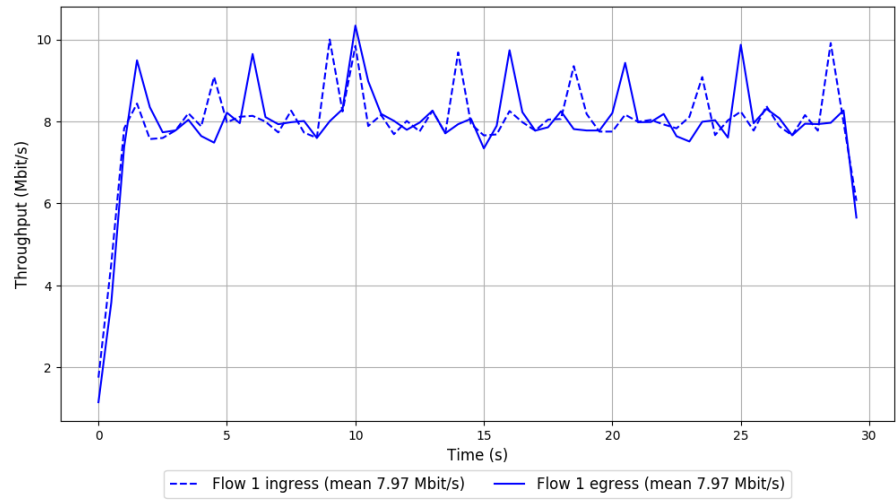
-- Flow 1:

Average throughput: 7.97 Mbit/s

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

Loss rate: 0.47%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 15:51:43

End at: 2017-09-21 15:52:13

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.818 ms

Loss rate: 0.55%

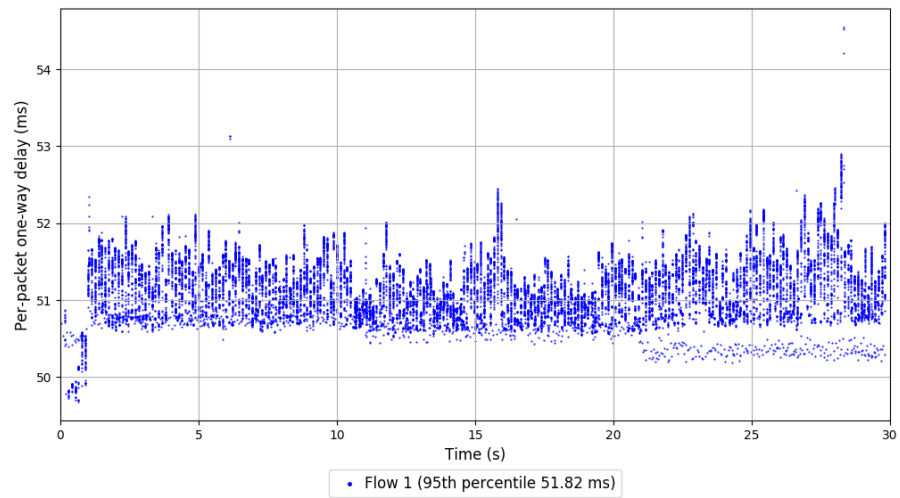
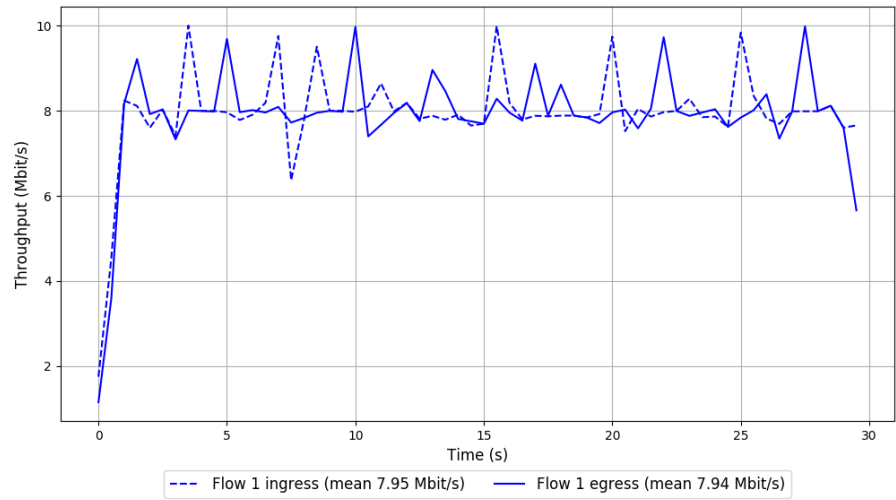
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.818 ms

Loss rate: 0.55%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 16:02:31

End at: 2017-09-21 16:03:01

Below is generated by plot.py at 2017-09-21 18:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.910 ms

Loss rate: 0.66%

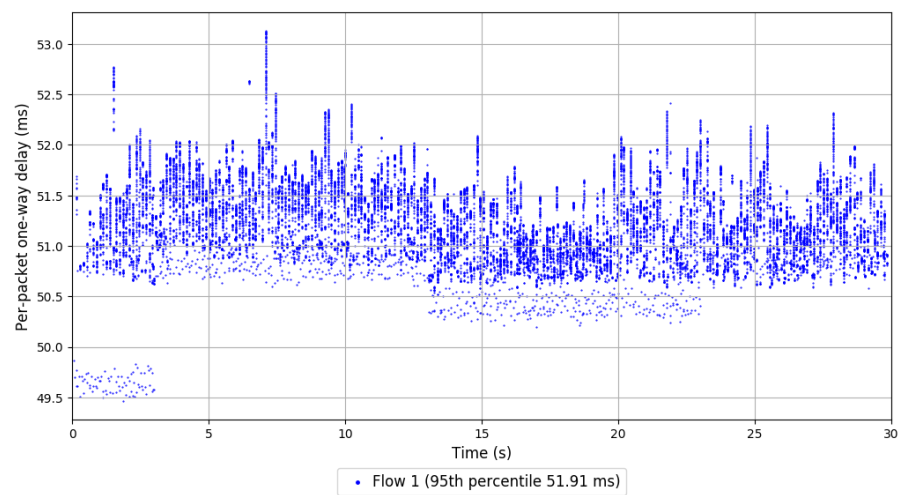
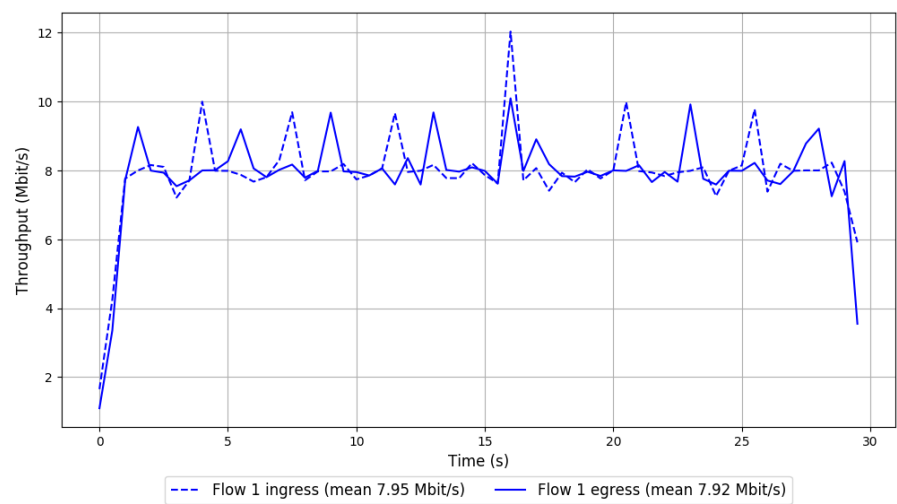
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.910 ms

Loss rate: 0.66%

Run 10: Report of Sprout — Data Link

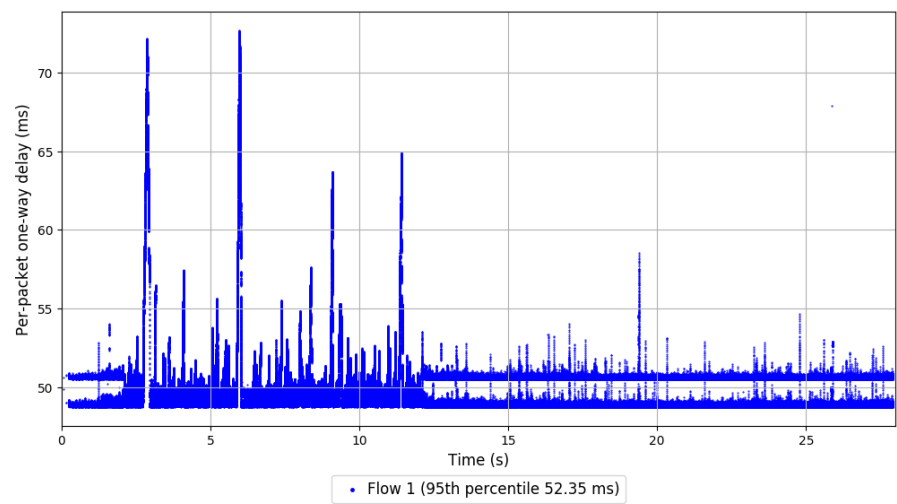
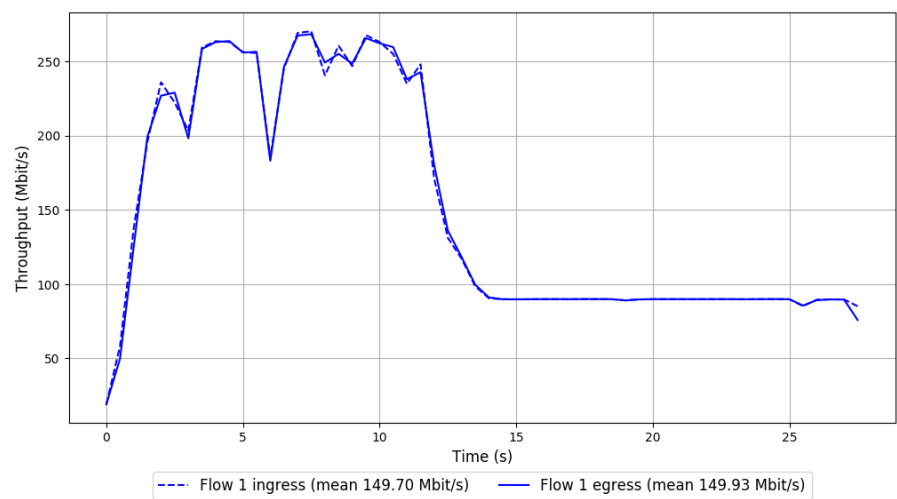


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 14:29:30
End at: 2017-09-21 14:30:00

# Below is generated by plot.py at 2017-09-21 18:27:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.93 Mbit/s
95th percentile per-packet one-way delay: 52.346 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 149.93 Mbit/s
95th percentile per-packet one-way delay: 52.346 ms
Loss rate: 0.22%
```


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

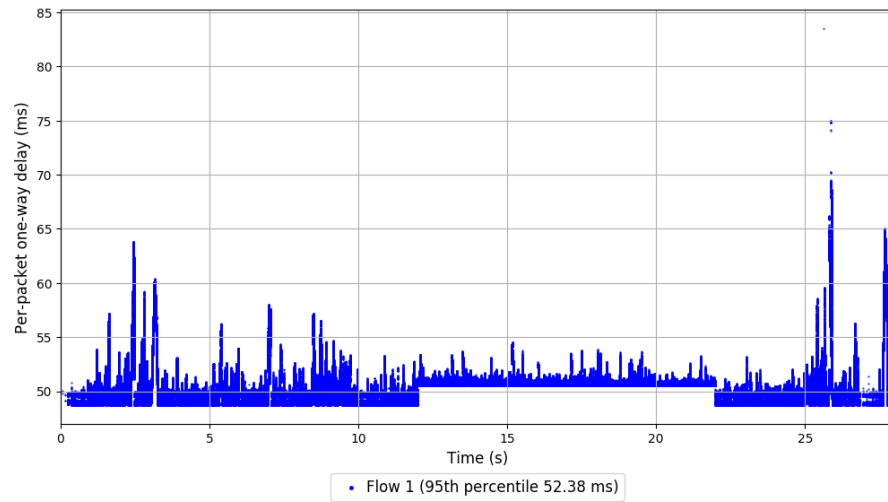
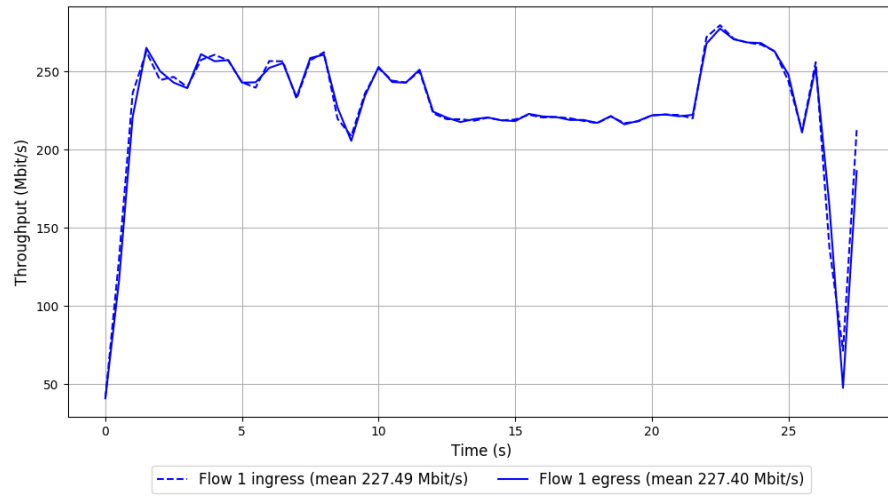


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 14:39:50
End at: 2017-09-21 14:40:20

# Below is generated by plot.py at 2017-09-21 18:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.40 Mbit/s
95th percentile per-packet one-way delay: 52.380 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 227.40 Mbit/s
95th percentile per-packet one-way delay: 52.380 ms
Loss rate: 0.40%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 14:50:33

End at: 2017-09-21 14:51:03

Below is generated by plot.py at 2017-09-21 18:28:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.88 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 0.39%

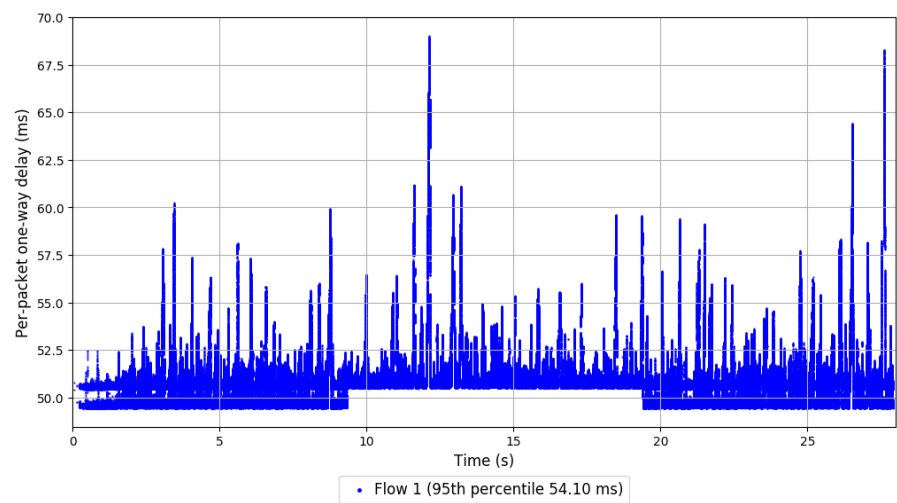
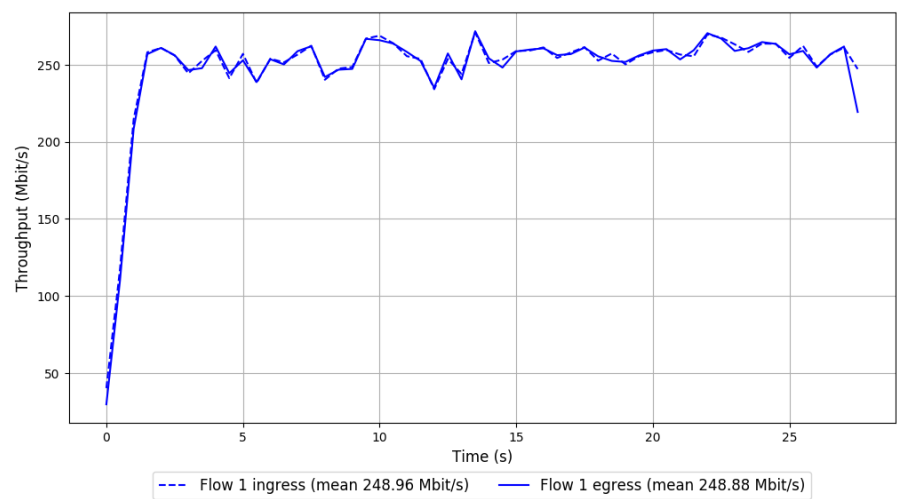
-- Flow 1:

Average throughput: 248.88 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 0.39%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 15:01:16

End at: 2017-09-21 15:01:46

Below is generated by plot.py at 2017-09-21 18:28:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.65 Mbit/s

95th percentile per-packet one-way delay: 52.388 ms

Loss rate: 0.36%

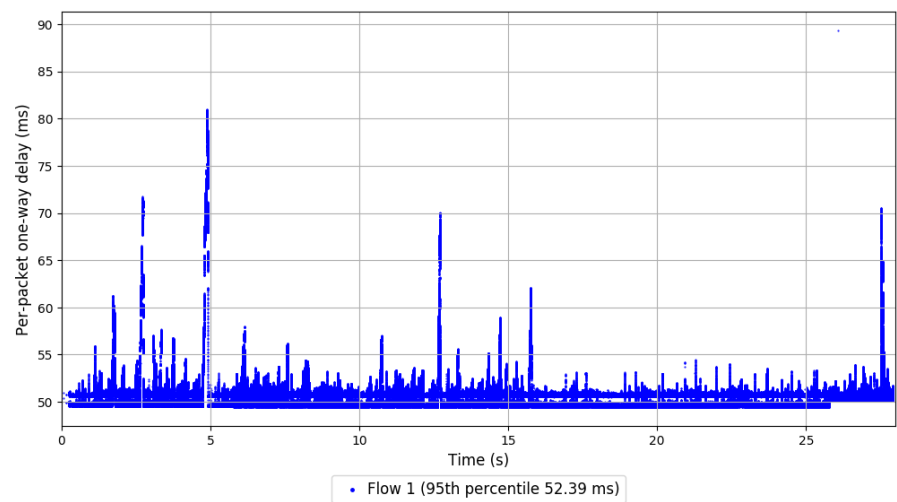
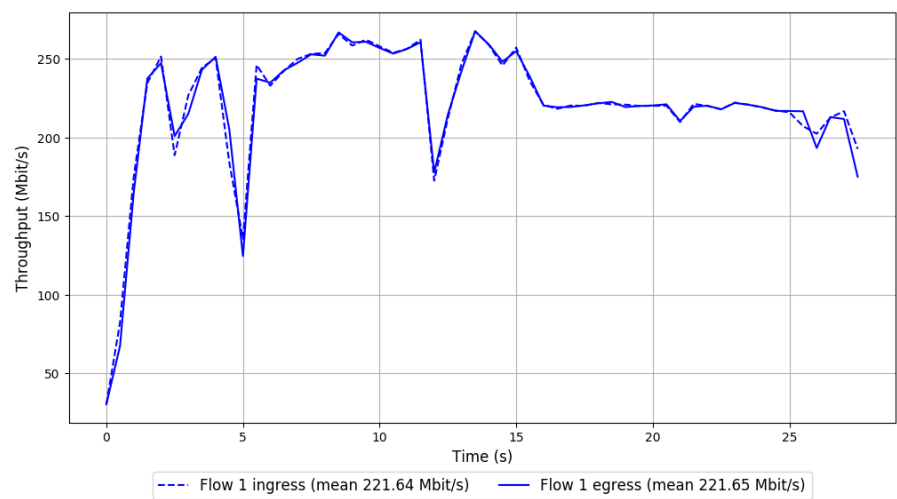
-- Flow 1:

Average throughput: 221.65 Mbit/s

95th percentile per-packet one-way delay: 52.388 ms

Loss rate: 0.36%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 15:11:58

End at: 2017-09-21 15:12:28

Below is generated by plot.py at 2017-09-21 18:28:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.97 Mbit/s

95th percentile per-packet one-way delay: 58.875 ms

Loss rate: 0.43%

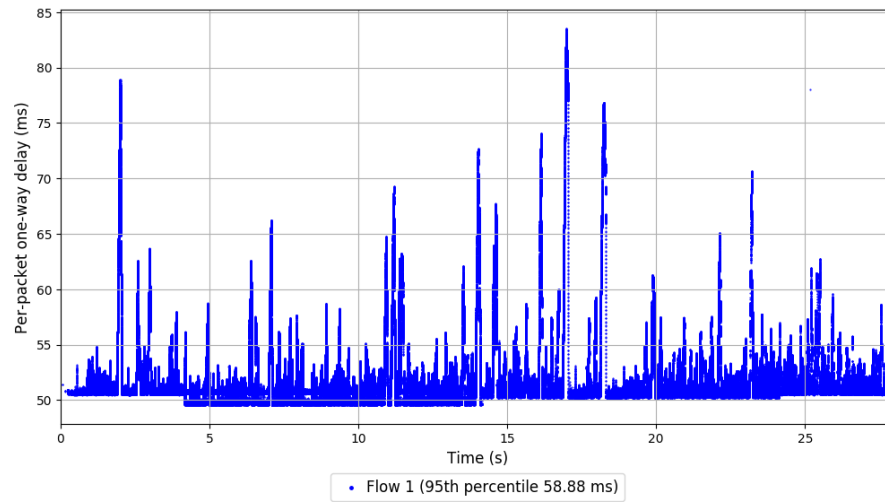
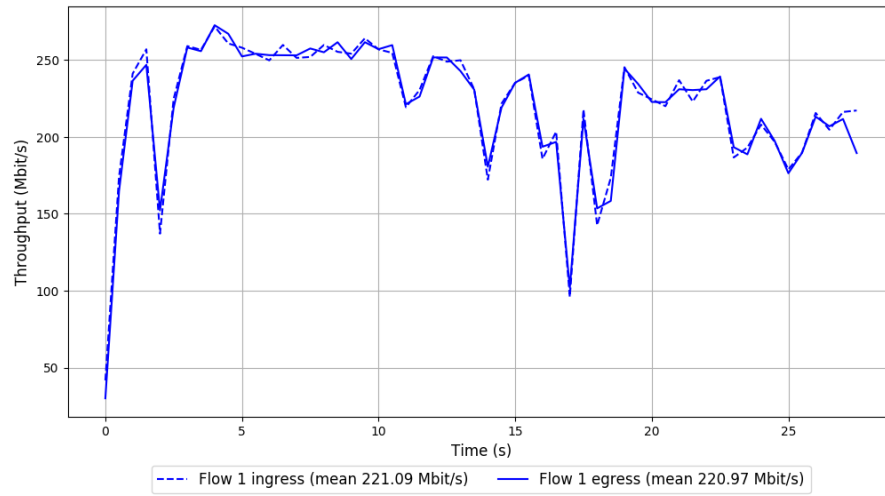
-- Flow 1:

Average throughput: 220.97 Mbit/s

95th percentile per-packet one-way delay: 58.875 ms

Loss rate: 0.43%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 15:22:22

End at: 2017-09-21 15:22:52

Below is generated by plot.py at 2017-09-21 18:28:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.17 Mbit/s

95th percentile per-packet one-way delay: 52.640 ms

Loss rate: 0.38%

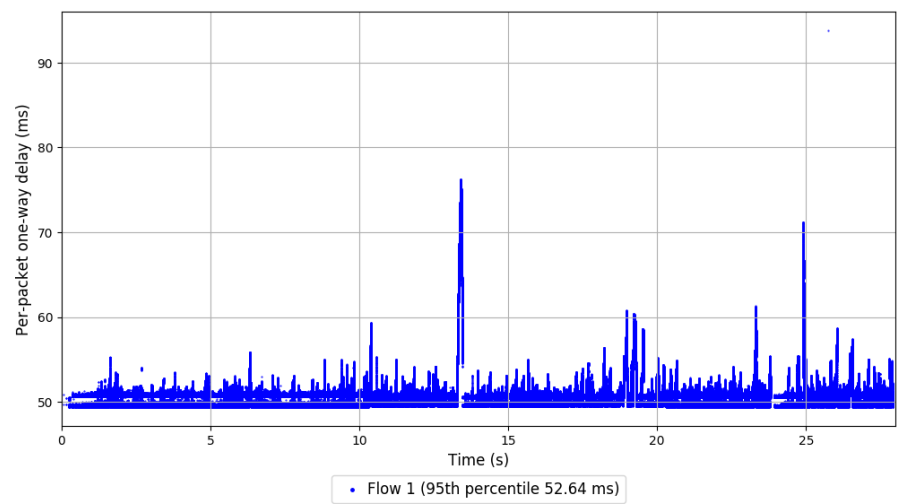
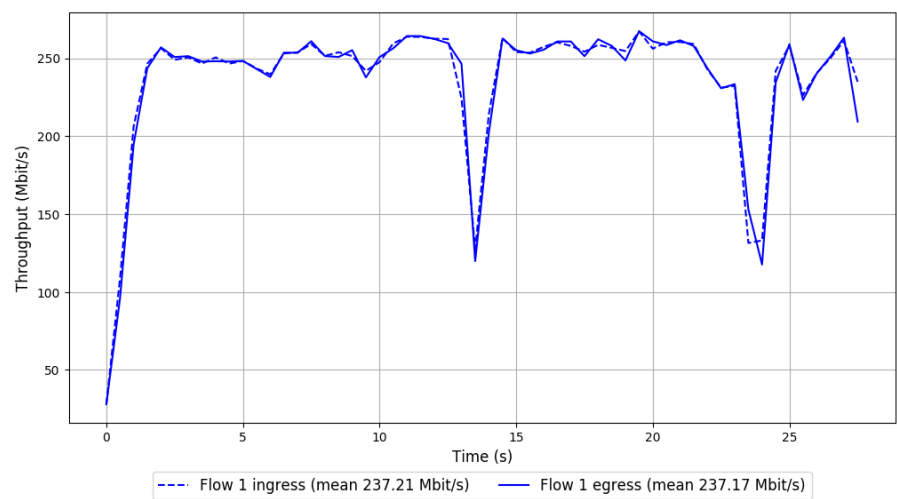
-- Flow 1:

Average throughput: 237.17 Mbit/s

95th percentile per-packet one-way delay: 52.640 ms

Loss rate: 0.38%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 15:33:03

End at: 2017-09-21 15:33:33

Below is generated by plot.py at 2017-09-21 18:33:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.36 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.39%

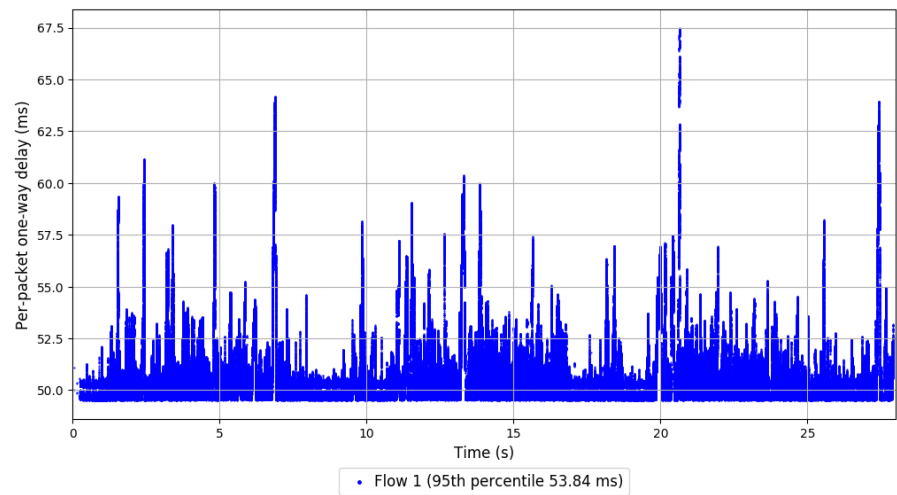
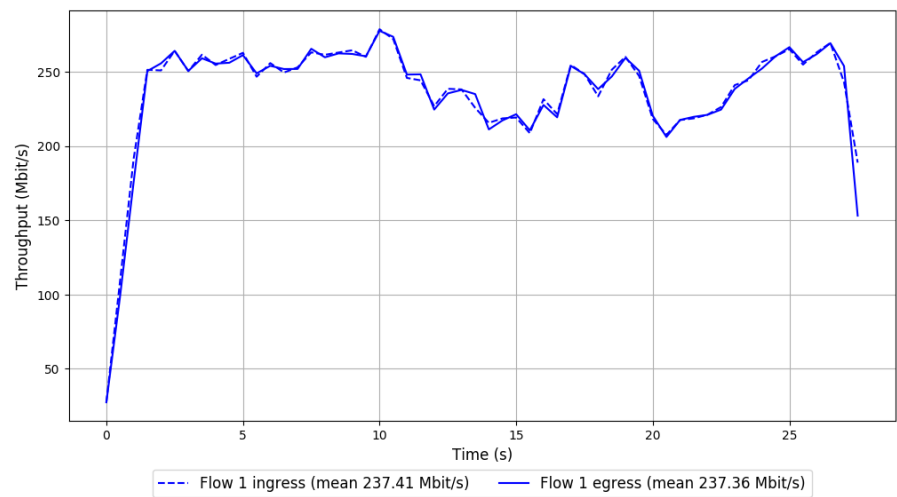
-- Flow 1:

Average throughput: 237.36 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.39%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 15:43:45

End at: 2017-09-21 15:44:15

Below is generated by plot.py at 2017-09-21 18:33:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.08 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.26%

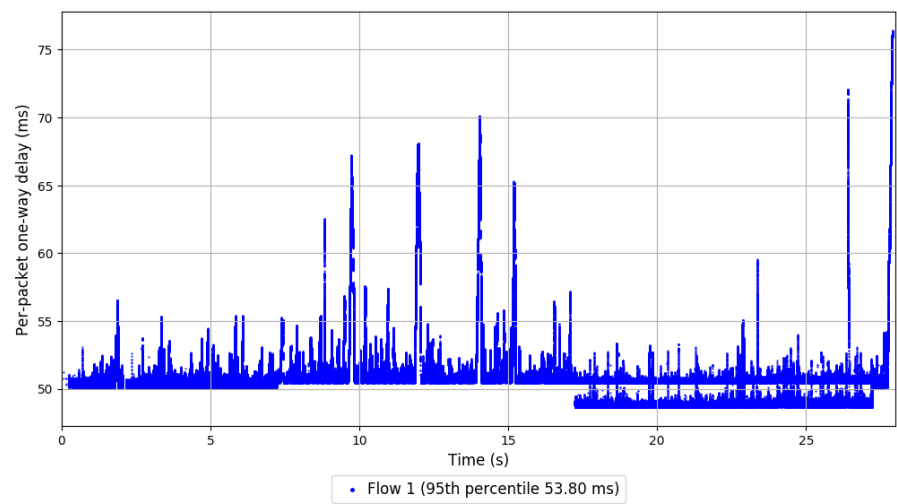
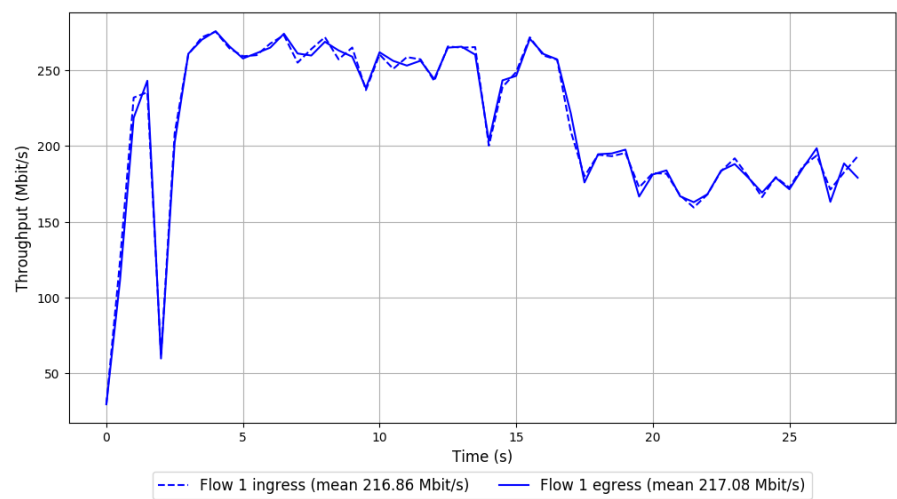
-- Flow 1:

Average throughput: 217.08 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.26%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 15:54:24

End at: 2017-09-21 15:54:54

Below is generated by plot.py at 2017-09-21 18:35:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.73 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 0.61%

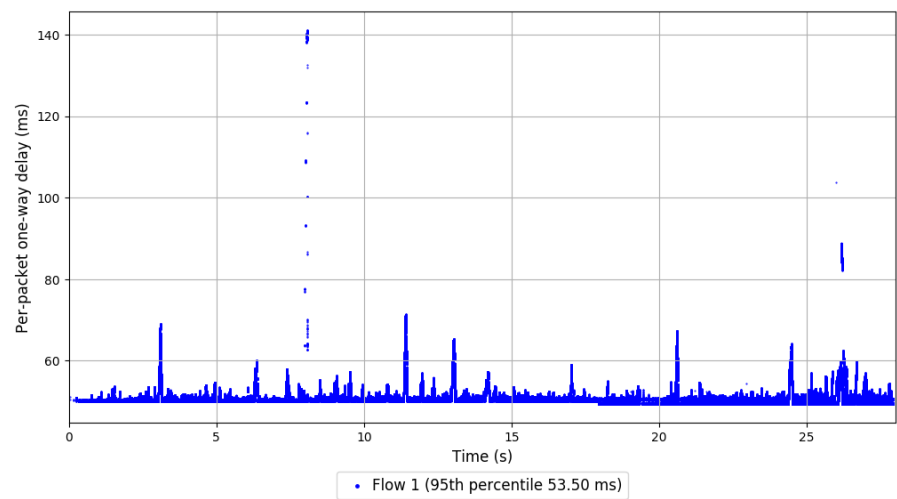
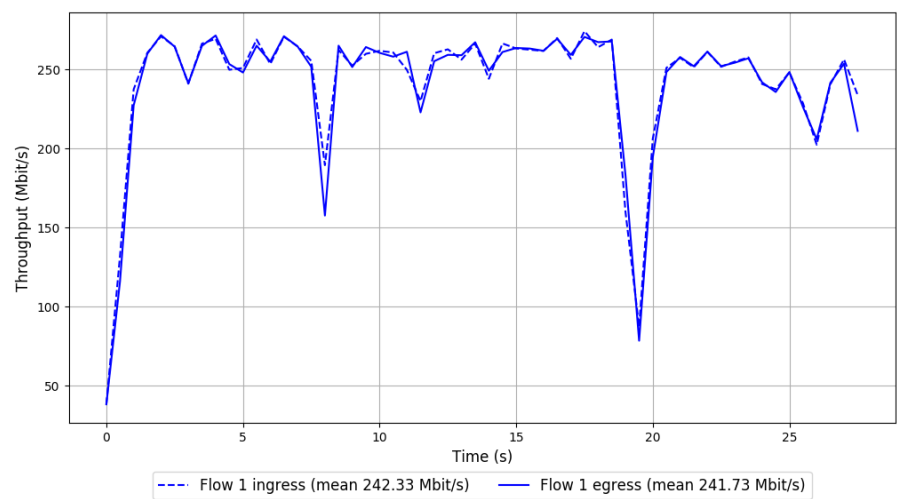
-- Flow 1:

Average throughput: 241.73 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 0.61%

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

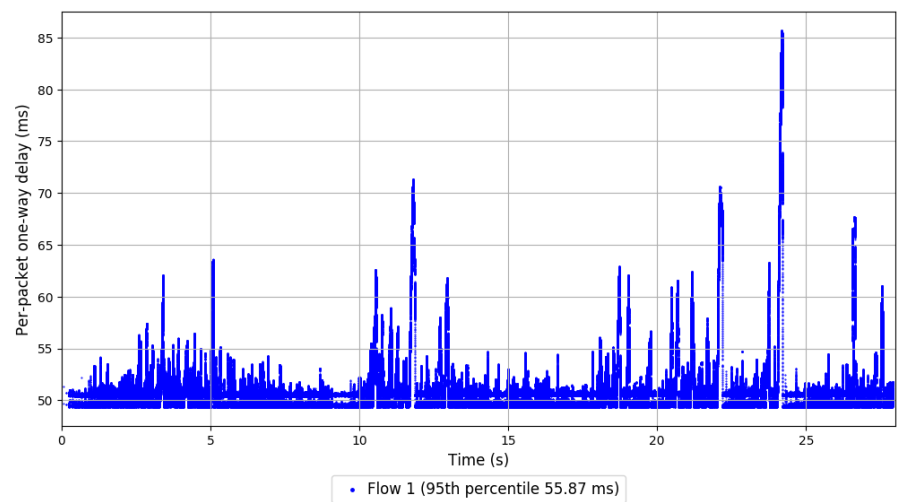
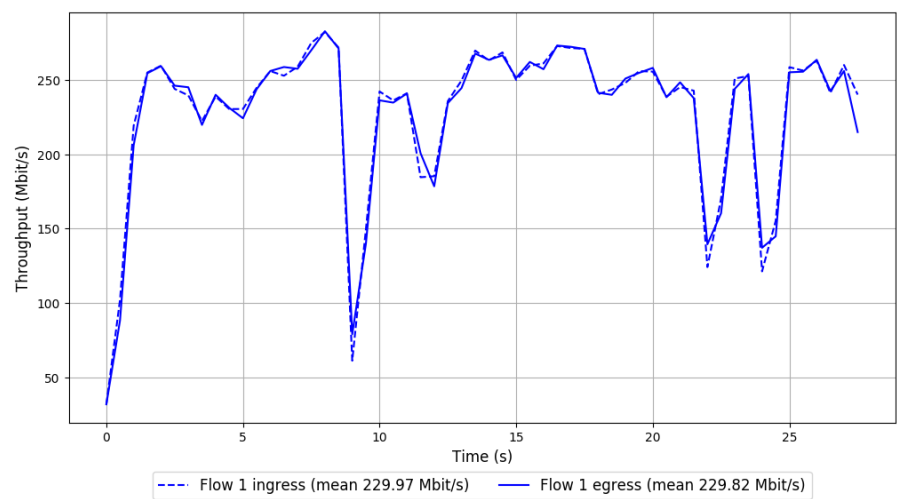


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 16:05:13
End at: 2017-09-21 16:05:43

# Below is generated by plot.py at 2017-09-21 18:35:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.82 Mbit/s
95th percentile per-packet one-way delay: 55.869 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 229.82 Mbit/s
95th percentile per-packet one-way delay: 55.869 ms
Loss rate: 0.42%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 14:30:21

End at: 2017-09-21 14:30:51

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.50 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.33%

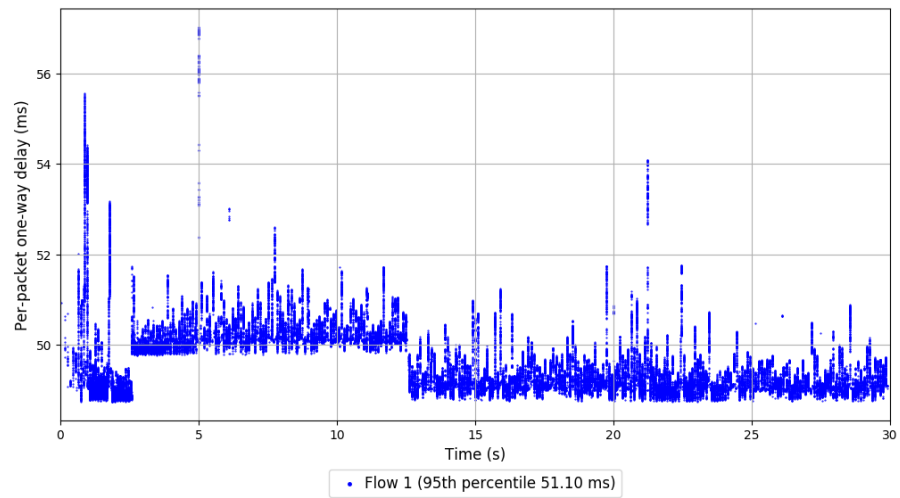
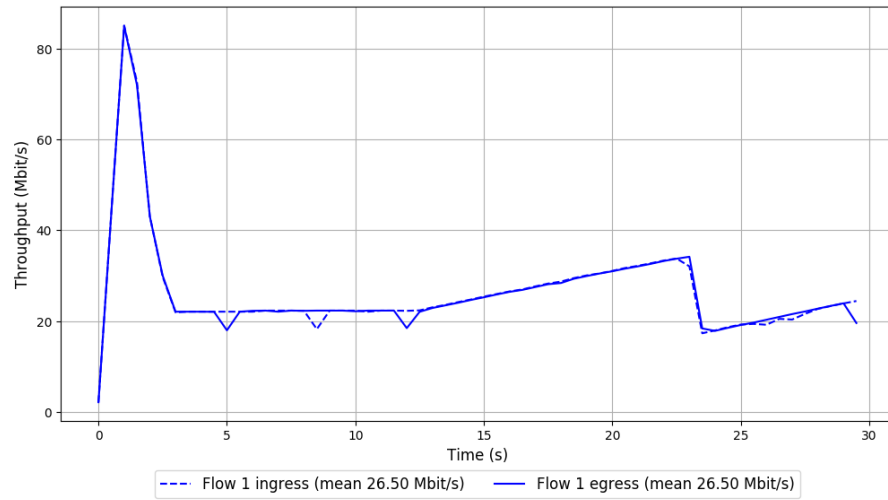
-- Flow 1:

Average throughput: 26.50 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.33%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 14:40:48

End at: 2017-09-21 14:41:18

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 51.989 ms

Loss rate: 0.19%

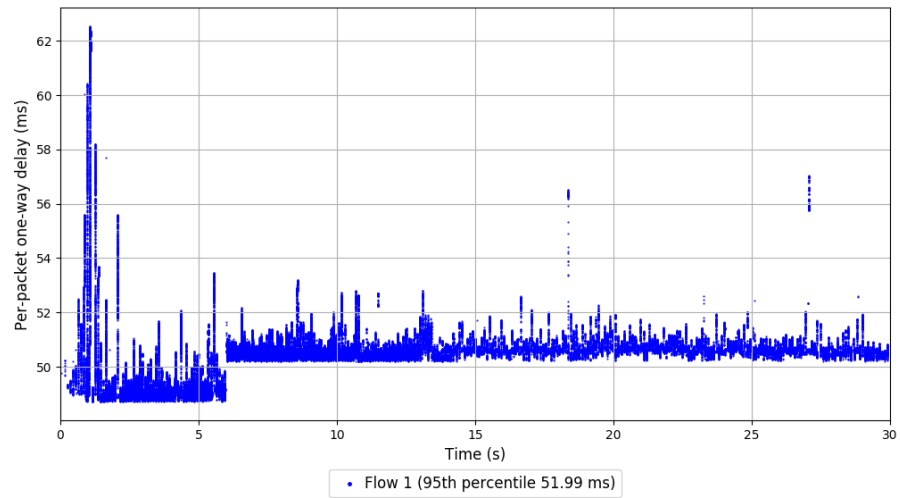
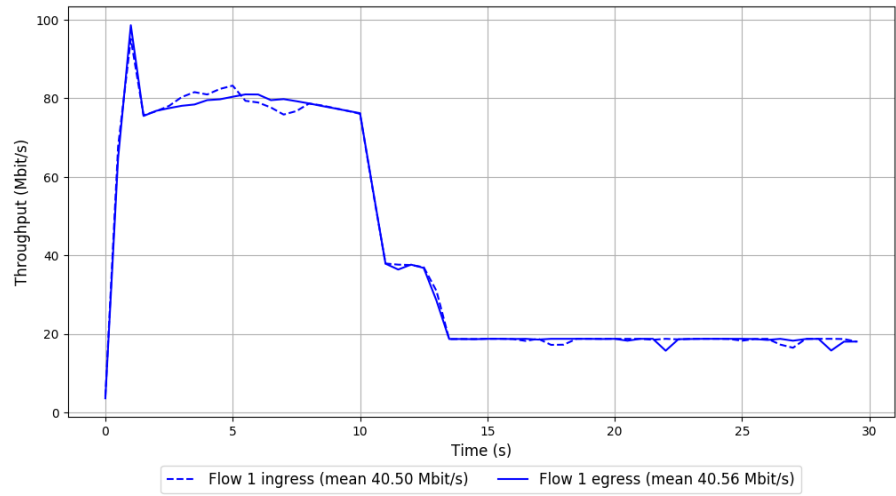
-- Flow 1:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 51.989 ms

Loss rate: 0.19%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 14:51:33

End at: 2017-09-21 14:52:03

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.85 Mbit/s

95th percentile per-packet one-way delay: 51.944 ms

Loss rate: 0.12%

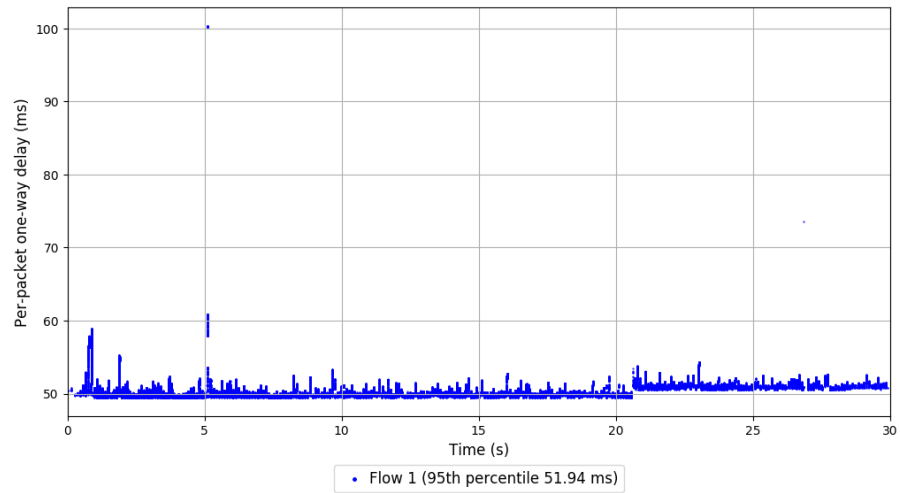
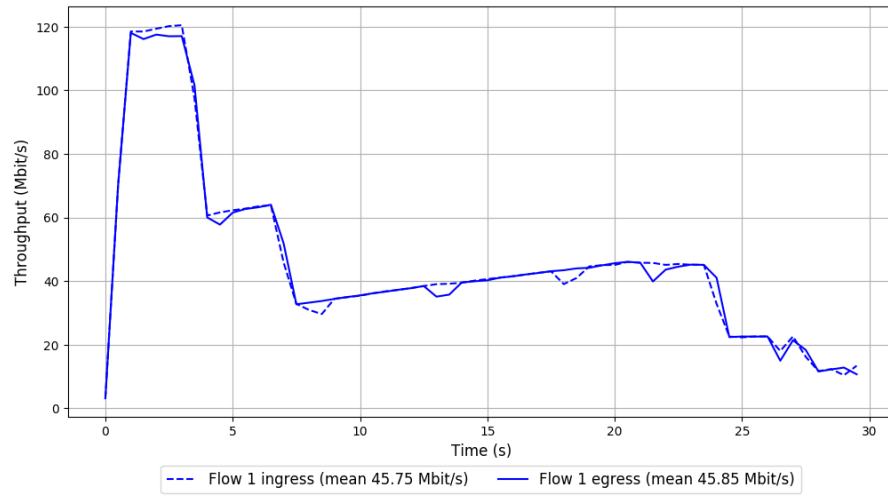
-- Flow 1:

Average throughput: 45.85 Mbit/s

95th percentile per-packet one-way delay: 51.944 ms

Loss rate: 0.12%

Run 3: Report of TCP Vegas — Data Link

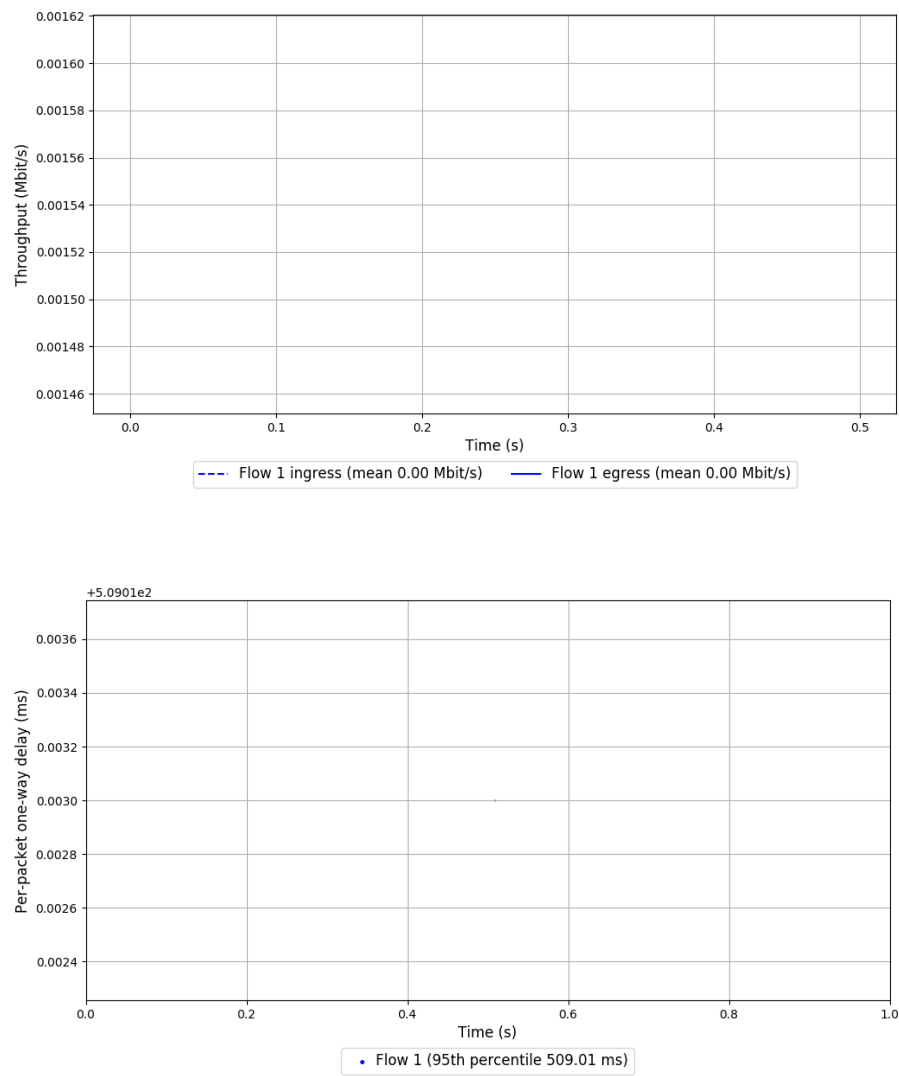


Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 15:02:14

End at: 2017-09-21 15:02:44

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 15:12:55

End at: 2017-09-21 15:13:25

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.33 Mbit/s

95th percentile per-packet one-way delay: 52.596 ms

Loss rate: 0.06%

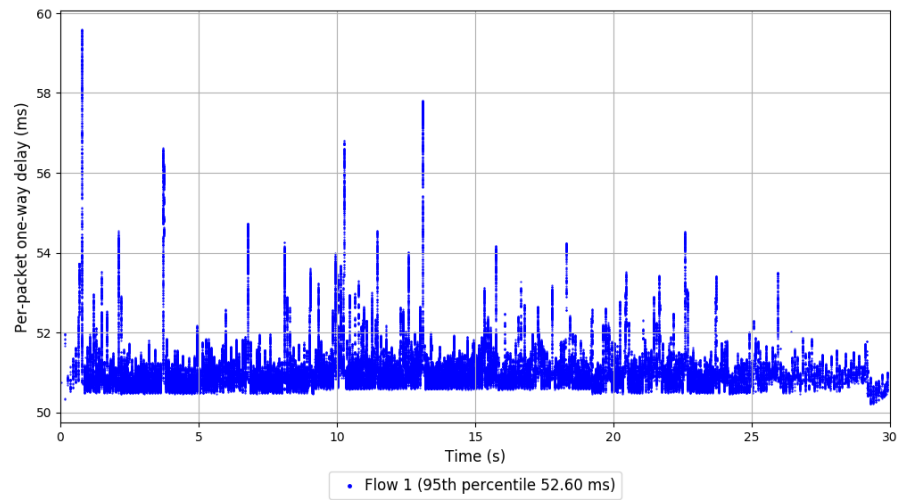
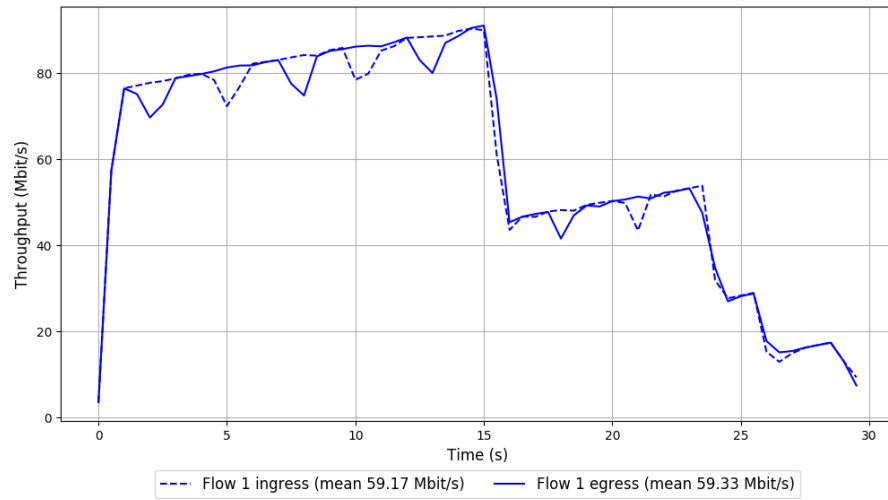
-- Flow 1:

Average throughput: 59.33 Mbit/s

95th percentile per-packet one-way delay: 52.596 ms

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 15:23:20

End at: 2017-09-21 15:23:50

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 0.21%

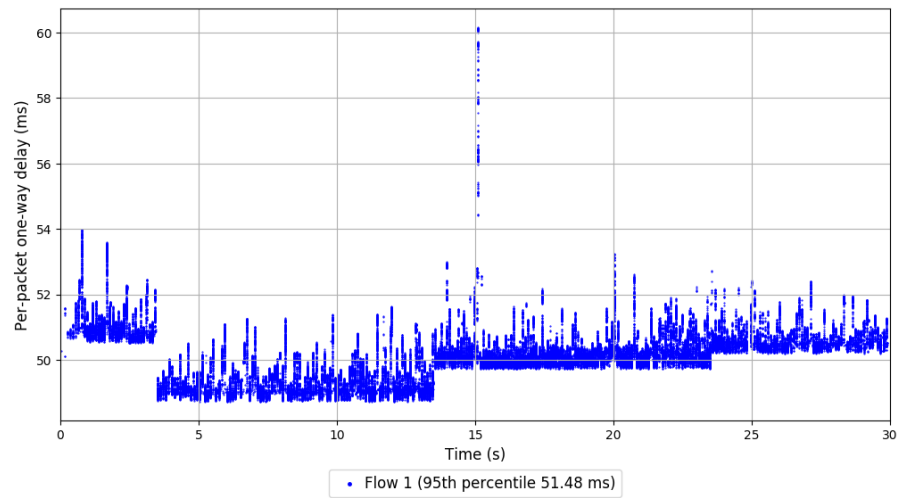
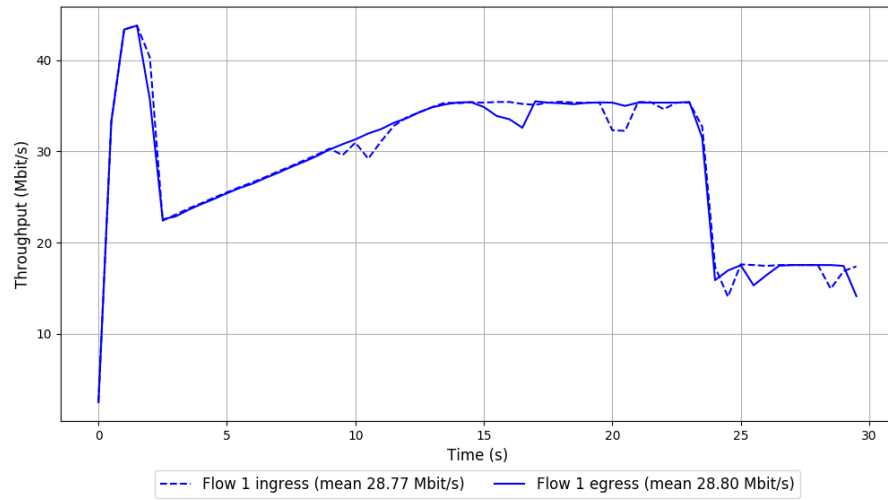
-- Flow 1:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 0.21%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 15:34:03

End at: 2017-09-21 15:34:33

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 51.802 ms

Loss rate: 0.49%

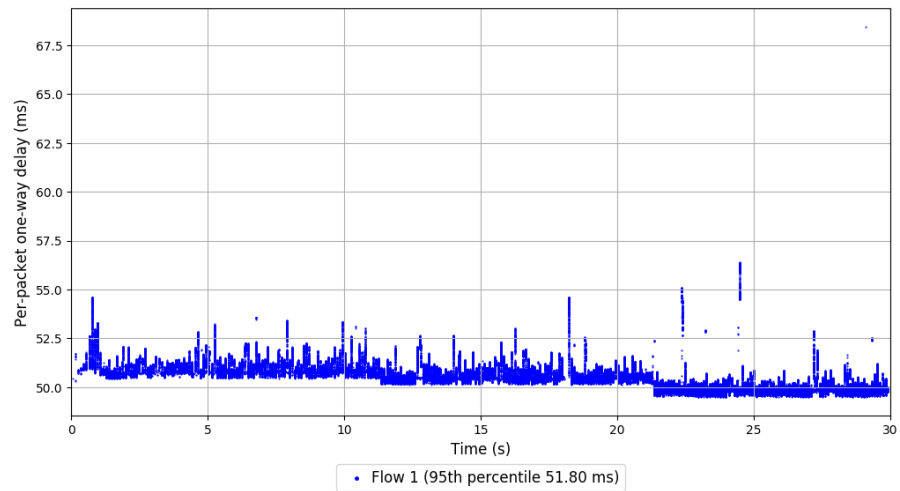
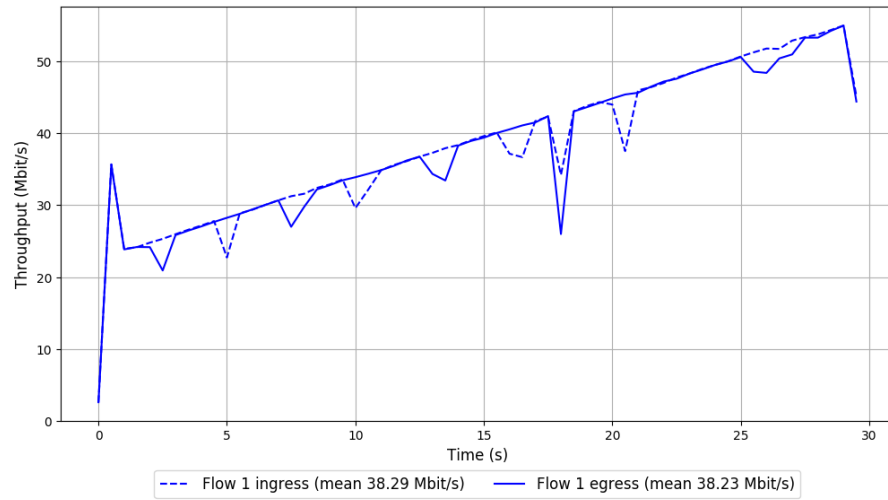
-- Flow 1:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 51.802 ms

Loss rate: 0.49%

Run 7: Report of TCP Vegas — Data Link

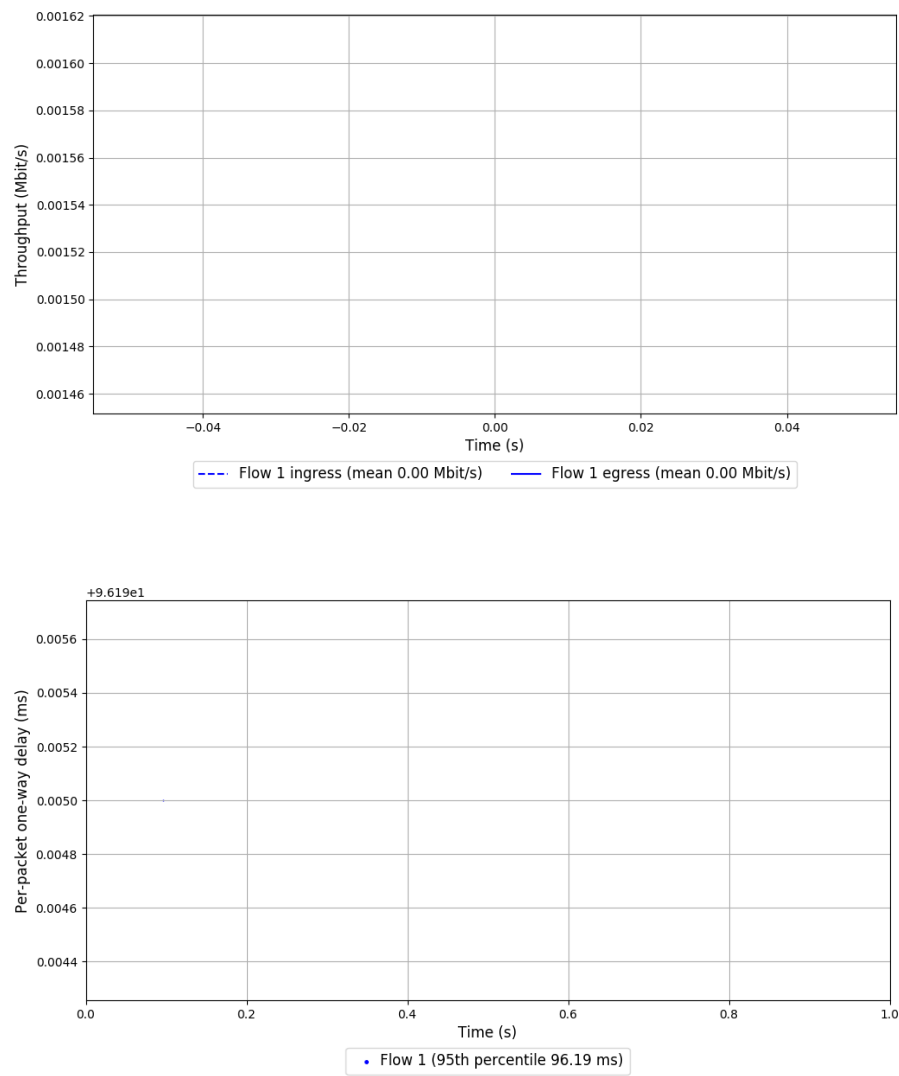


Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 15:44:42

End at: 2017-09-21 15:45:12

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 15:55:26

End at: 2017-09-21 15:55:56

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 52.047 ms

Loss rate: 0.60%

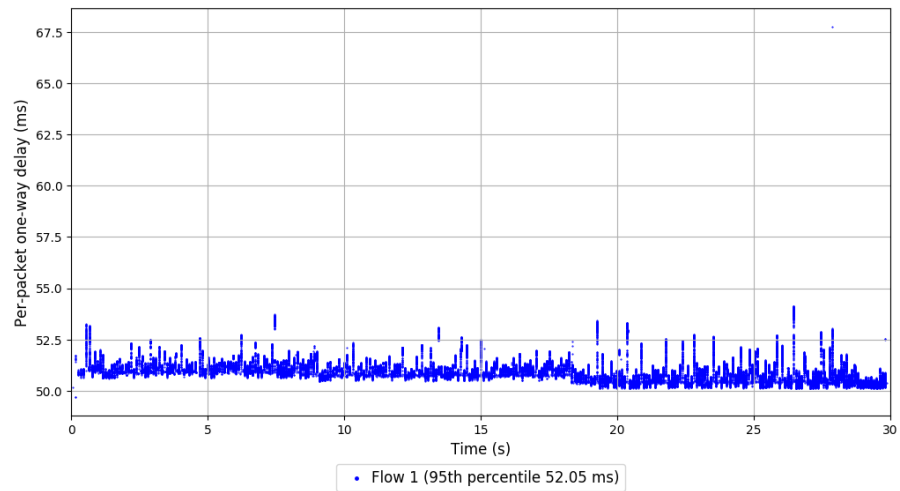
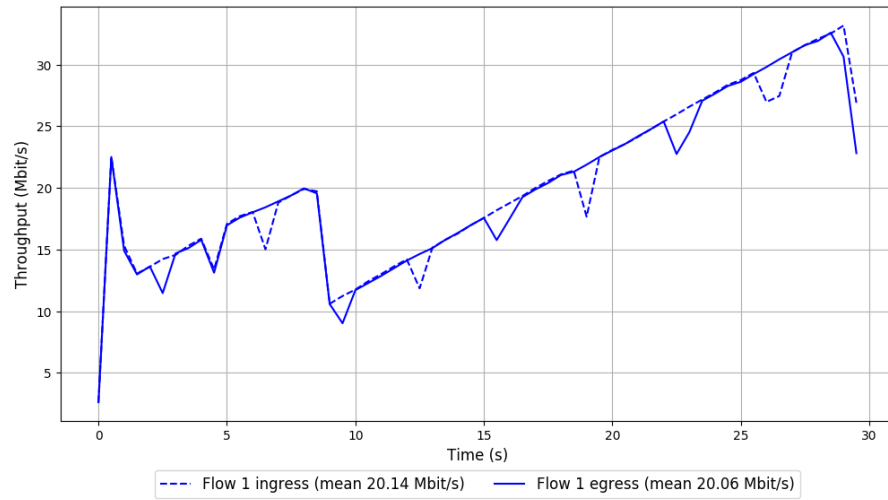
-- Flow 1:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 52.047 ms

Loss rate: 0.60%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 16:06:12

End at: 2017-09-21 16:06:42

Run 10: Report of TCP Vegas — Data Link

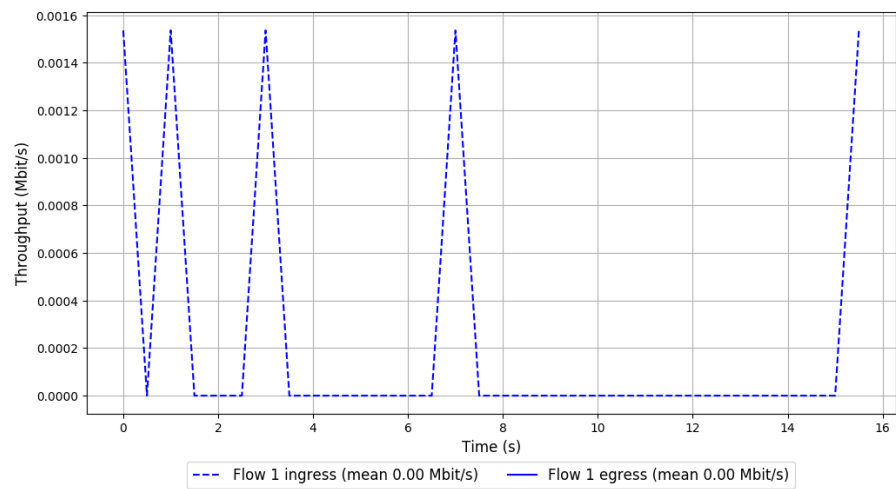


Figure is missing

Run 1: Statistics of Verus

Start at: 2017-09-21 14:23:42

End at: 2017-09-21 14:24:12

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.31 Mbit/s

95th percentile per-packet one-way delay: 150.643 ms

Loss rate: 5.15%

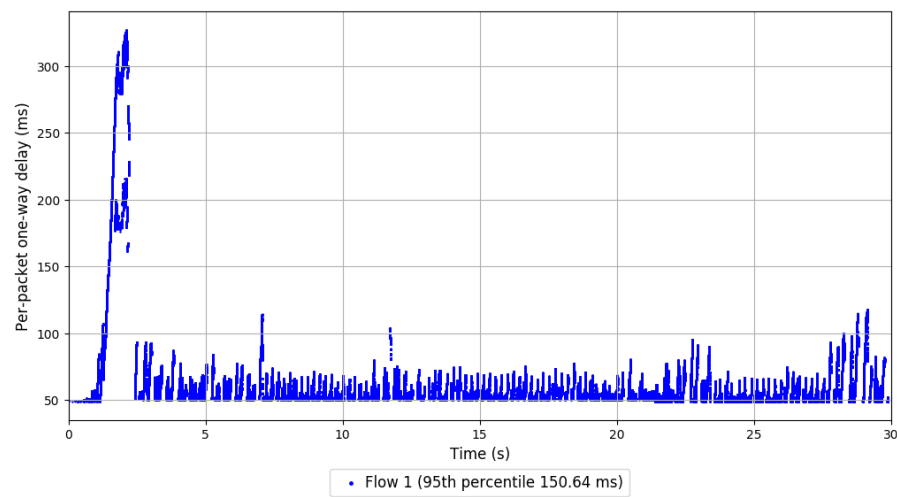
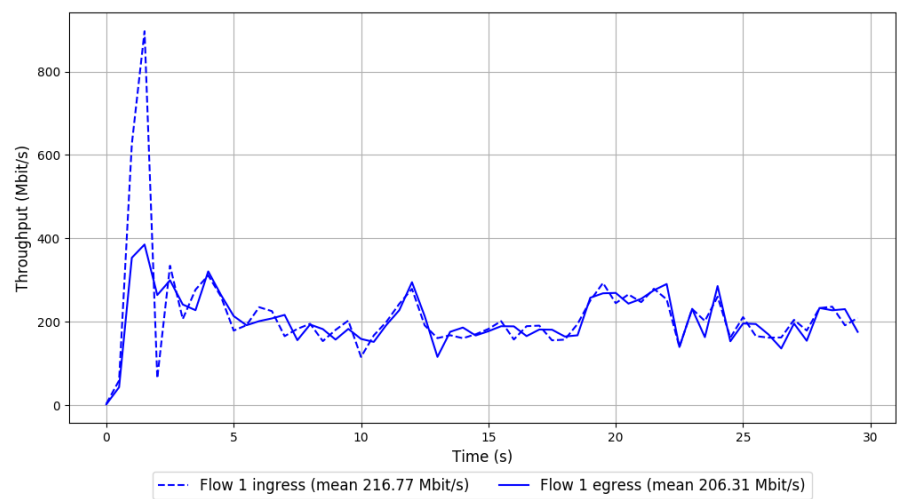
-- Flow 1:

Average throughput: 206.31 Mbit/s

95th percentile per-packet one-way delay: 150.643 ms

Loss rate: 5.15%

Run 1: Report of Verus — Data Link

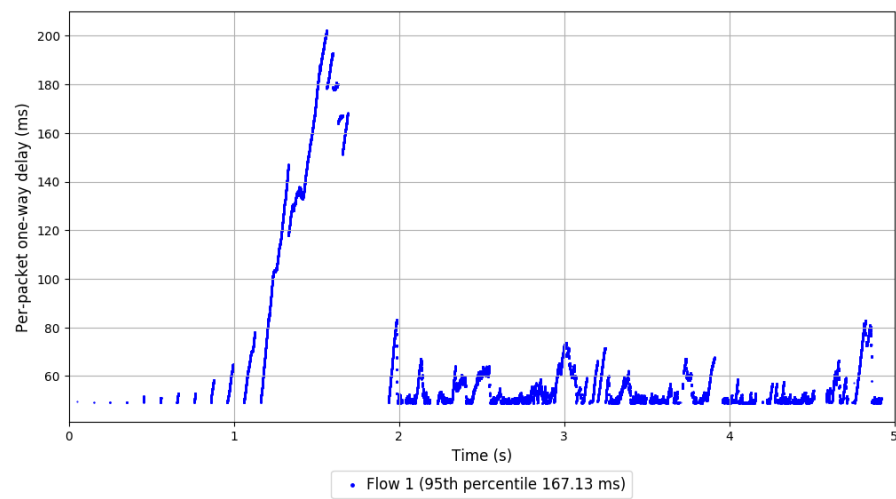
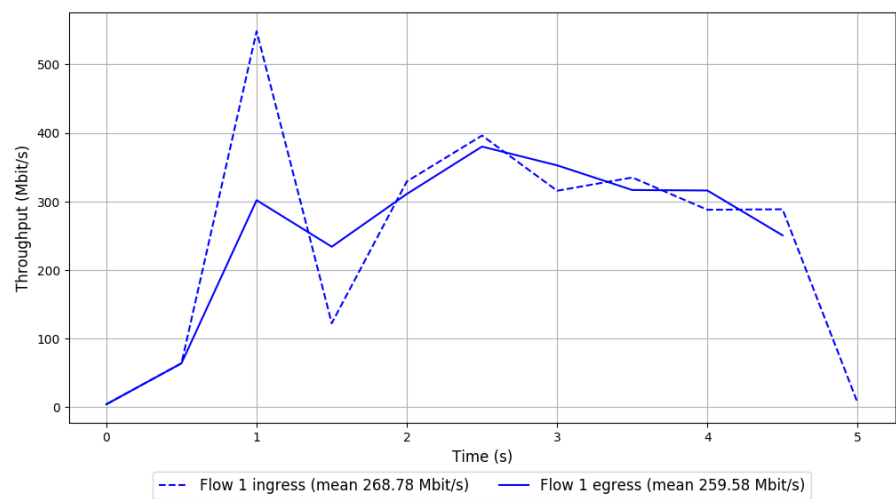


Run 2: Statistics of Verus

Start at: 2017-09-21 14:34:15

End at: 2017-09-21 14:34:45

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 14:44:45

End at: 2017-09-21 14:45:15

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.69 Mbit/s

95th percentile per-packet one-way delay: 91.144 ms

Loss rate: 1.54%

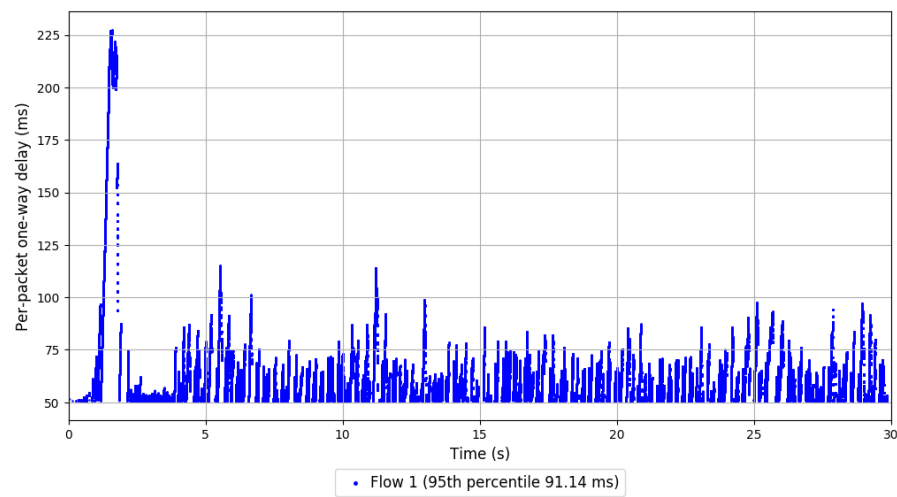
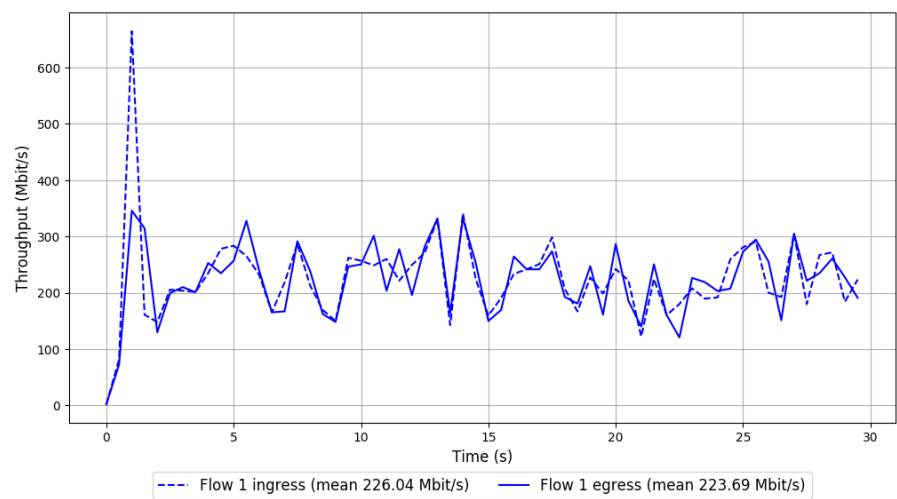
-- Flow 1:

Average throughput: 223.69 Mbit/s

95th percentile per-packet one-way delay: 91.144 ms

Loss rate: 1.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 14:55:28

End at: 2017-09-21 14:55:58

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.08 Mbit/s

95th percentile per-packet one-way delay: 121.331 ms

Loss rate: 3.25%

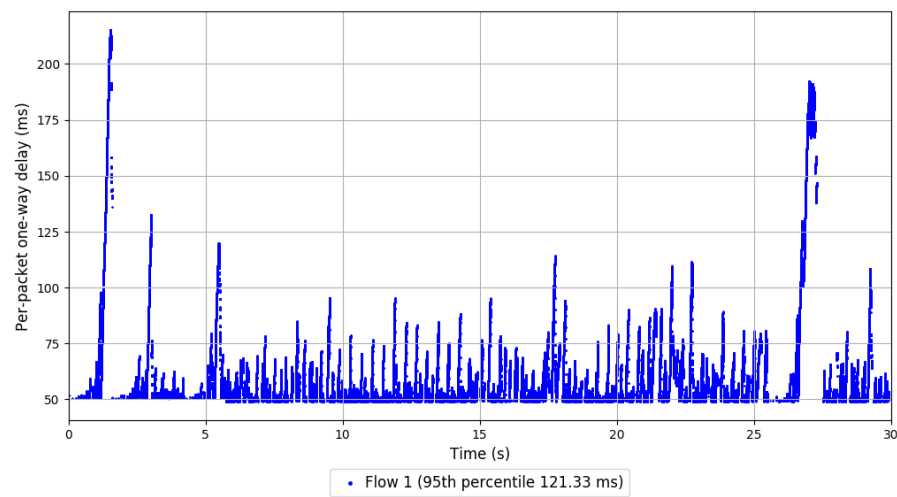
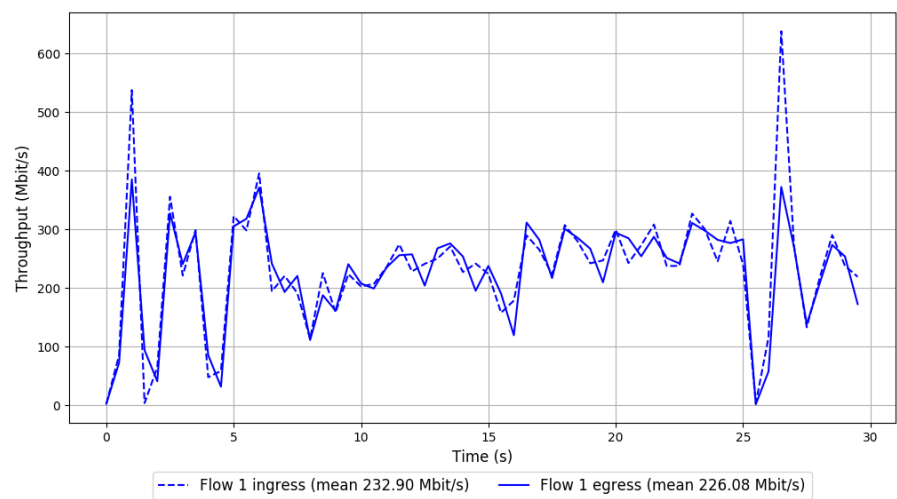
-- Flow 1:

Average throughput: 226.08 Mbit/s

95th percentile per-packet one-way delay: 121.331 ms

Loss rate: 3.25%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 15:06:07

End at: 2017-09-21 15:06:37

Below is generated by plot.py at 2017-09-21 18:35:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.86 Mbit/s

95th percentile per-packet one-way delay: 116.911 ms

Loss rate: 2.03%

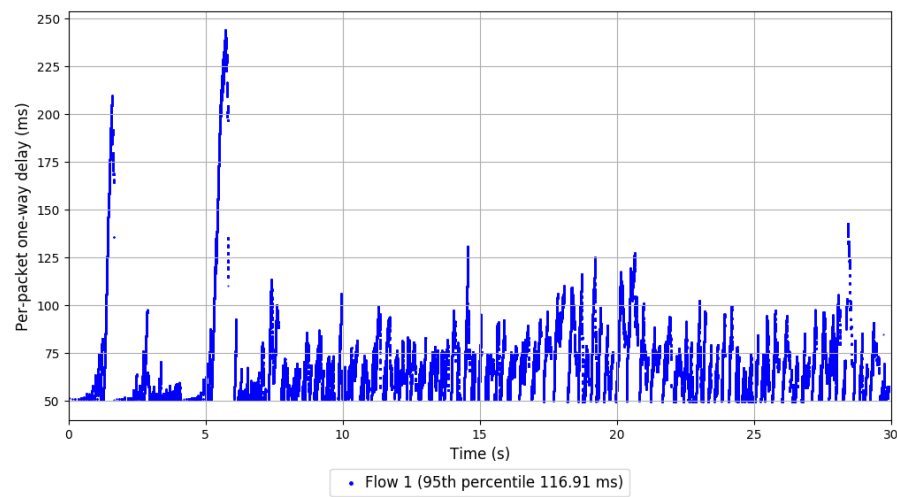
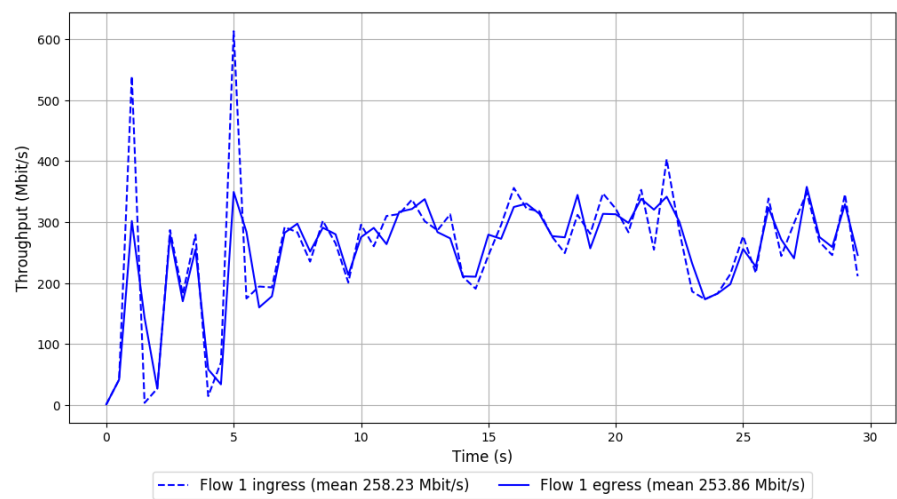
-- Flow 1:

Average throughput: 253.86 Mbit/s

95th percentile per-packet one-way delay: 116.911 ms

Loss rate: 2.03%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 15:16:40

End at: 2017-09-21 15:17:10

Below is generated by plot.py at 2017-09-21 18:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.03 Mbit/s

95th percentile per-packet one-way delay: 92.929 ms

Loss rate: 2.45%

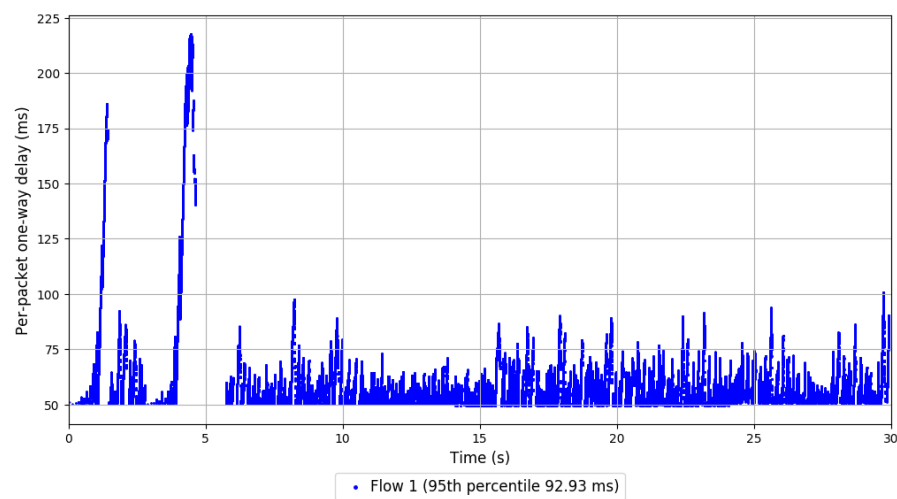
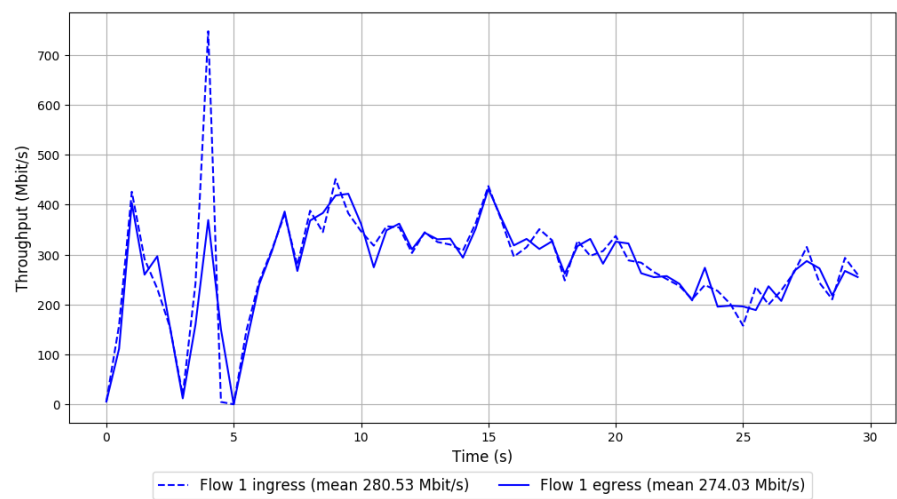
-- Flow 1:

Average throughput: 274.03 Mbit/s

95th percentile per-packet one-way delay: 92.929 ms

Loss rate: 2.45%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 15:27:15

End at: 2017-09-21 15:27:45

Below is generated by plot.py at 2017-09-21 18:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.72 Mbit/s

95th percentile per-packet one-way delay: 108.624 ms

Loss rate: 0.88%

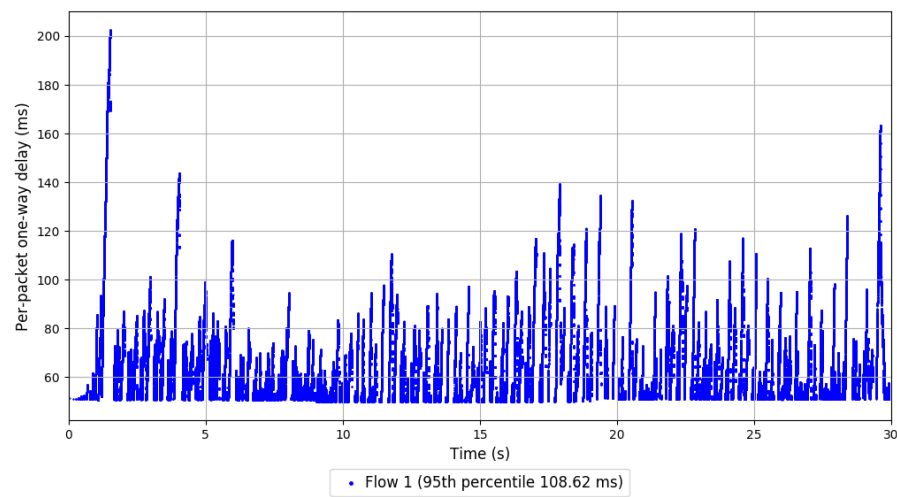
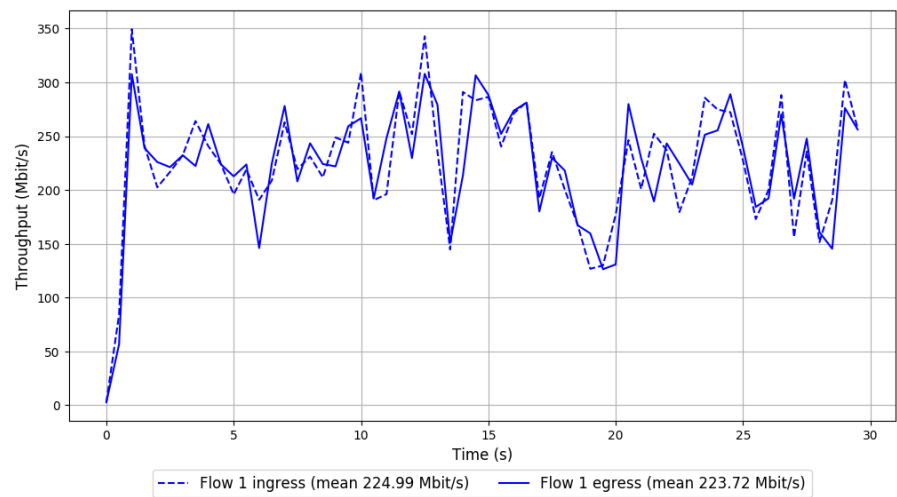
-- Flow 1:

Average throughput: 223.72 Mbit/s

95th percentile per-packet one-way delay: 108.624 ms

Loss rate: 0.88%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 15:37:55

End at: 2017-09-21 15:38:25

Below is generated by plot.py at 2017-09-21 18:39:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.70 Mbit/s

95th percentile per-packet one-way delay: 194.116 ms

Loss rate: 6.36%

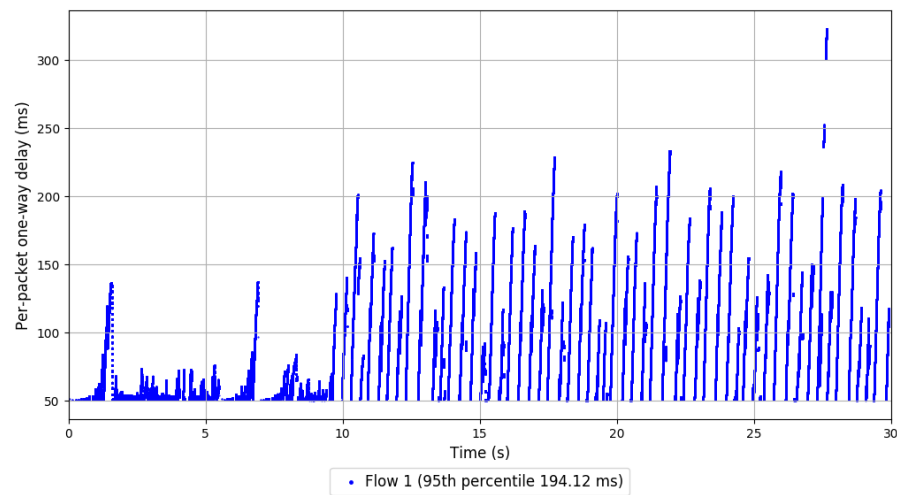
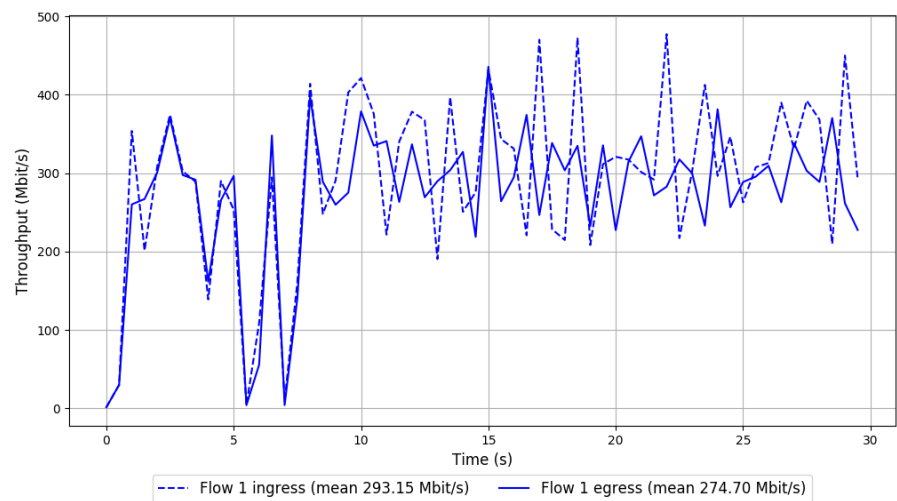
-- Flow 1:

Average throughput: 274.70 Mbit/s

95th percentile per-packet one-way delay: 194.116 ms

Loss rate: 6.36%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 15:48:37

End at: 2017-09-21 15:49:07

Below is generated by plot.py at 2017-09-21 18:39:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.97 Mbit/s

95th percentile per-packet one-way delay: 113.269 ms

Loss rate: 0.31%

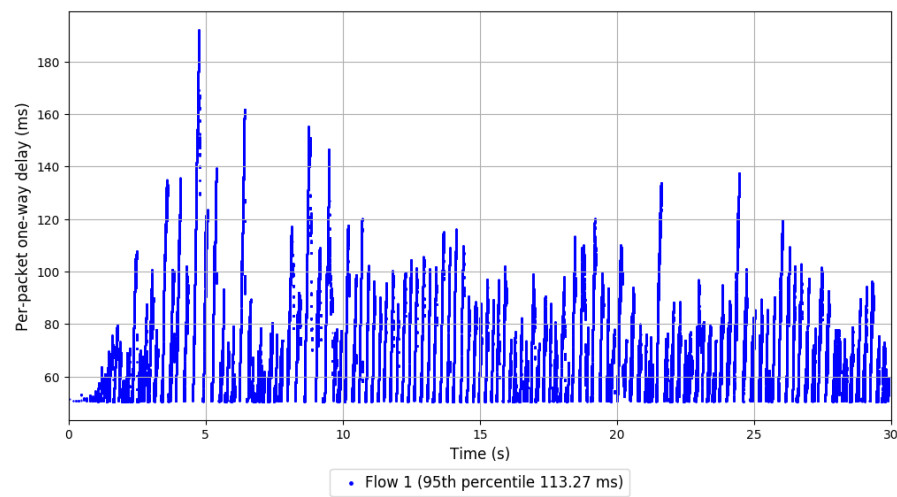
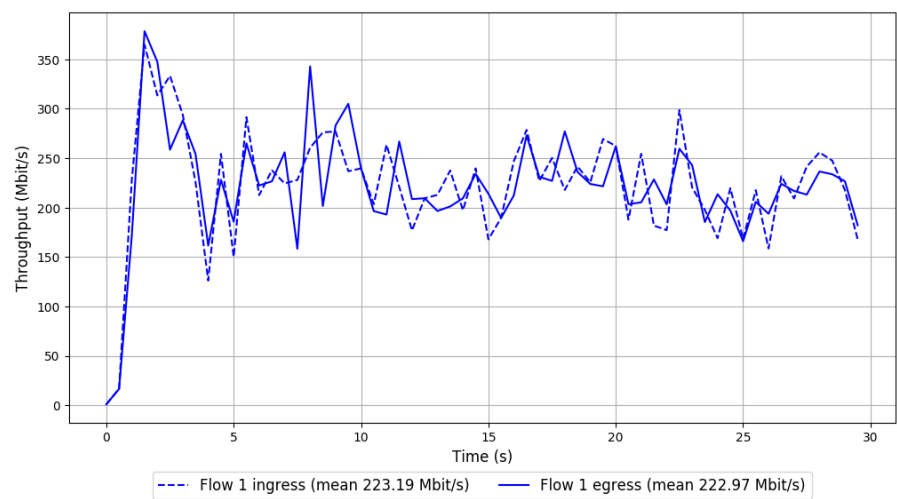
-- Flow 1:

Average throughput: 222.97 Mbit/s

95th percentile per-packet one-way delay: 113.269 ms

Loss rate: 0.31%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 15:59:22

End at: 2017-09-21 15:59:52

Below is generated by plot.py at 2017-09-21 18:39:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.78 Mbit/s

95th percentile per-packet one-way delay: 112.643 ms

Loss rate: 0.68%

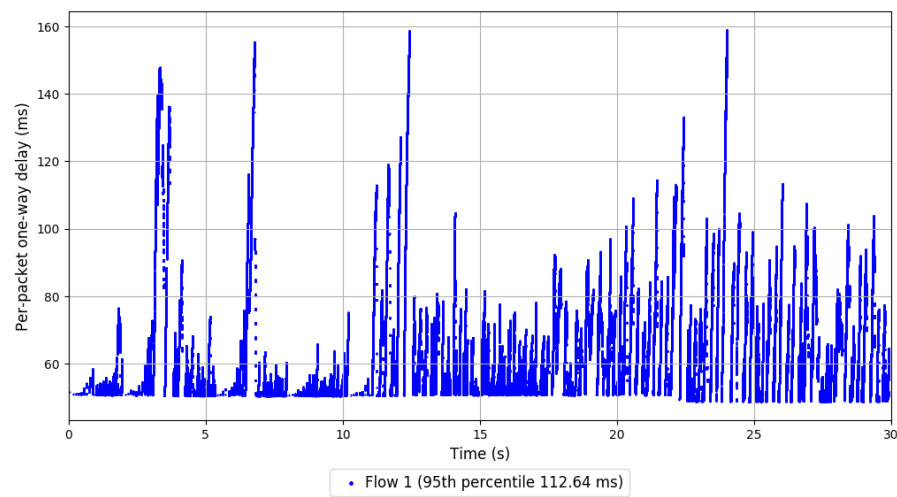
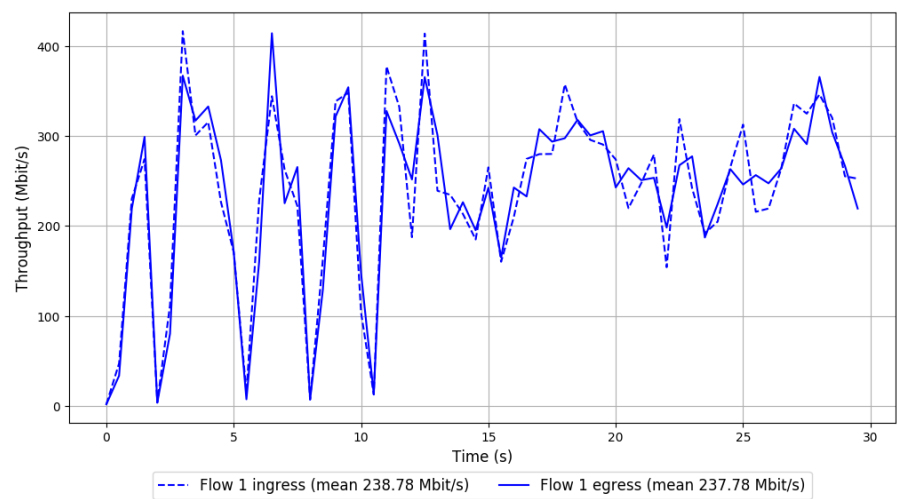
-- Flow 1:

Average throughput: 237.78 Mbit/s

95th percentile per-packet one-way delay: 112.643 ms

Loss rate: 0.68%

Run 10: Report of Verus — Data Link

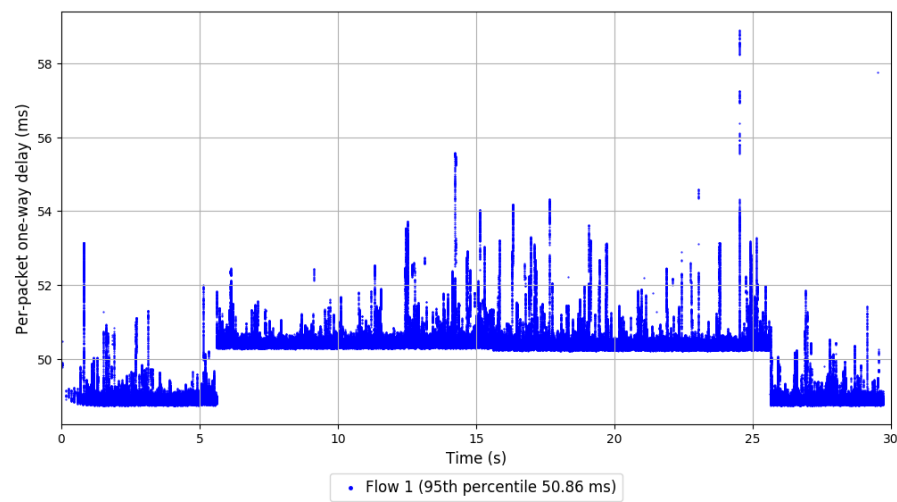
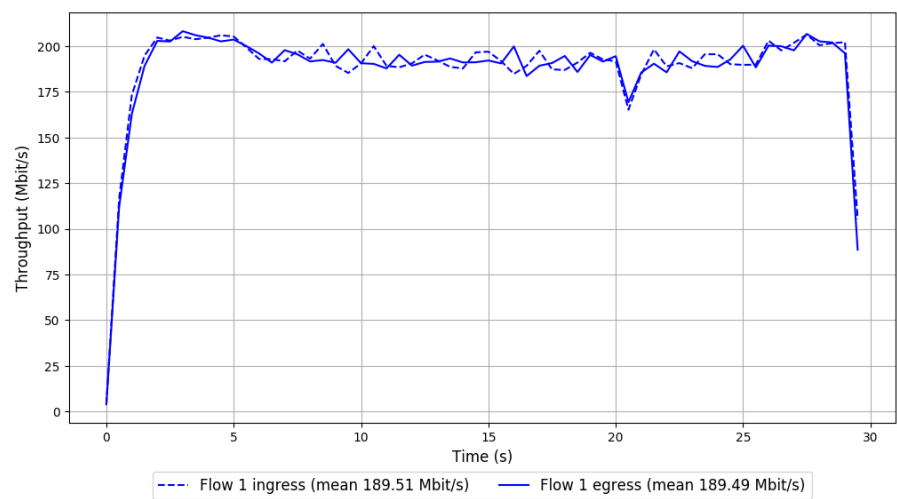


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 14:25:58
End at: 2017-09-21 14:26:28

# Below is generated by plot.py at 2017-09-21 18:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.49 Mbit/s
95th percentile per-packet one-way delay: 50.858 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 189.49 Mbit/s
95th percentile per-packet one-way delay: 50.858 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 14:36:18

End at: 2017-09-21 14:36:48

Below is generated by plot.py at 2017-09-21 18:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.51 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.34%

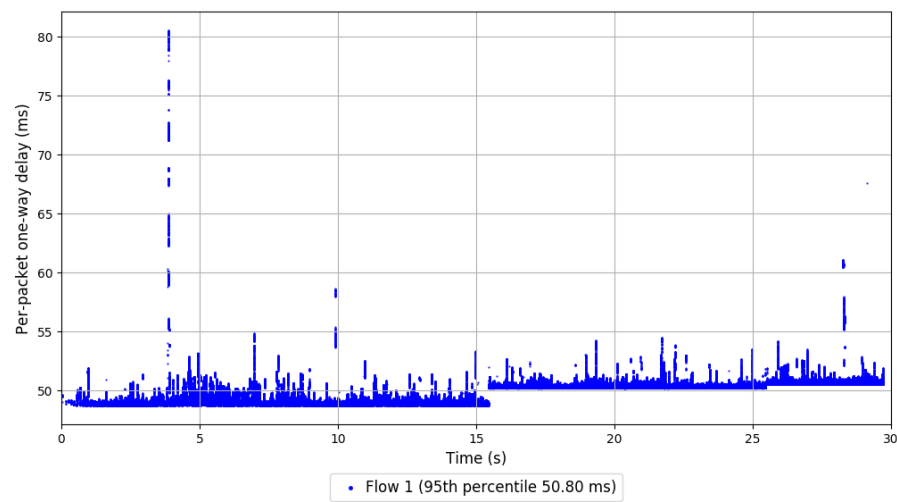
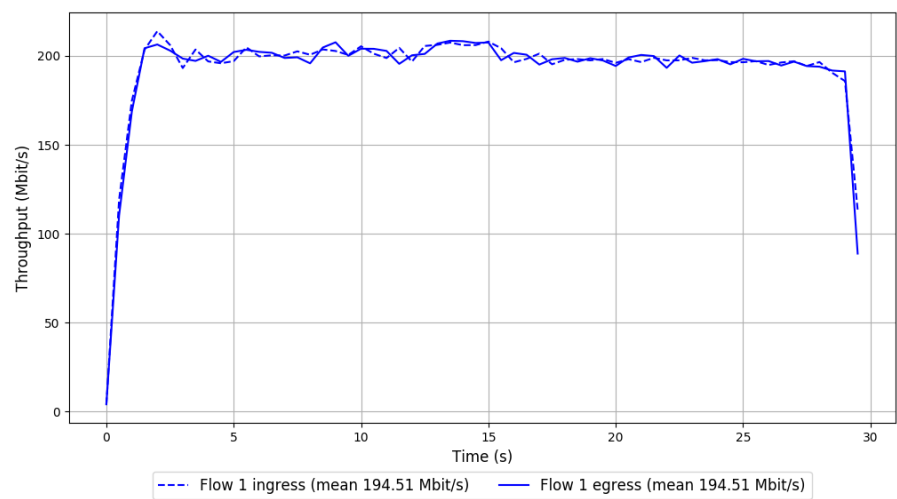
-- Flow 1:

Average throughput: 194.51 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.34%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 14:47:00

End at: 2017-09-21 14:47:30

Below is generated by plot.py at 2017-09-21 18:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.16 Mbit/s

95th percentile per-packet one-way delay: 51.320 ms

Loss rate: 0.34%

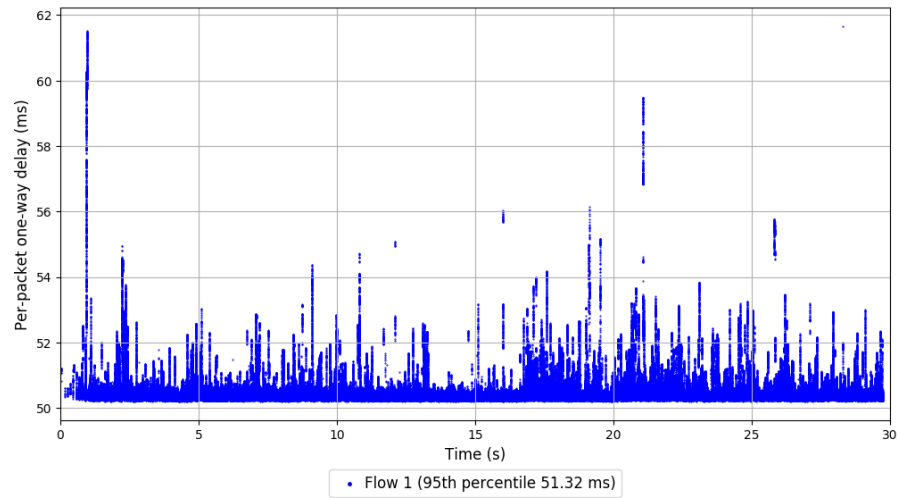
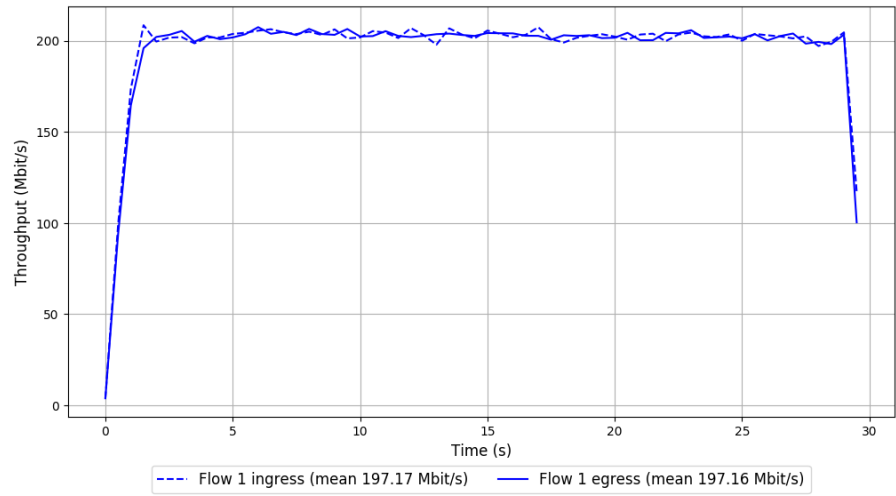
-- Flow 1:

Average throughput: 197.16 Mbit/s

95th percentile per-packet one-way delay: 51.320 ms

Loss rate: 0.34%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 14:57:44

End at: 2017-09-21 14:58:14

Below is generated by plot.py at 2017-09-21 18:41:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.46 Mbit/s

95th percentile per-packet one-way delay: 51.519 ms

Loss rate: 0.36%

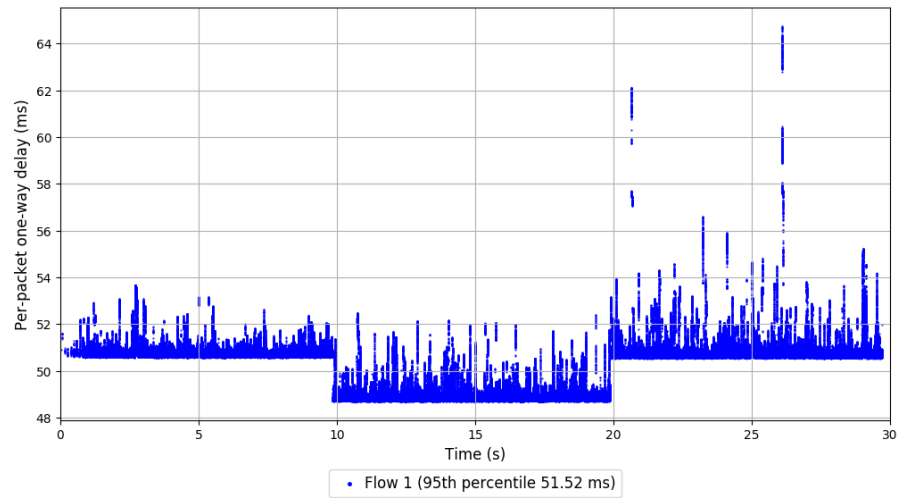
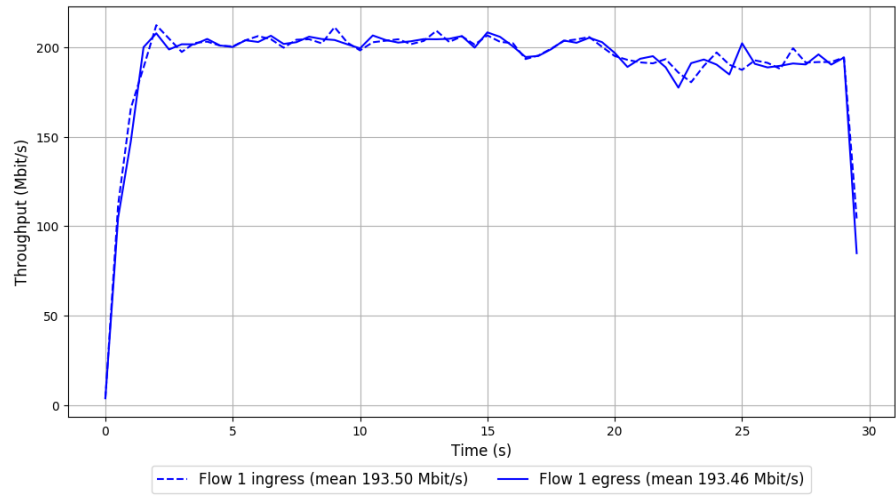
-- Flow 1:

Average throughput: 193.46 Mbit/s

95th percentile per-packet one-way delay: 51.519 ms

Loss rate: 0.36%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 15:08:24

End at: 2017-09-21 15:08:54

Below is generated by plot.py at 2017-09-21 18:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.96 Mbit/s

95th percentile per-packet one-way delay: 51.347 ms

Loss rate: 0.34%

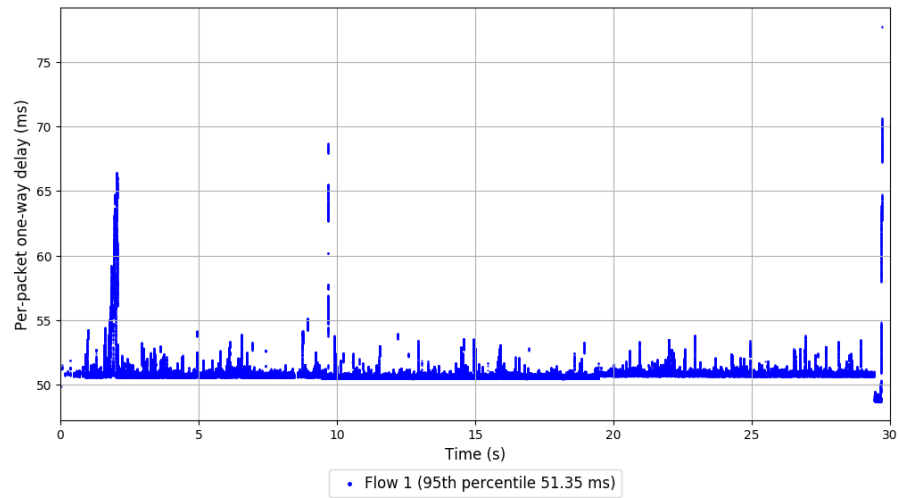
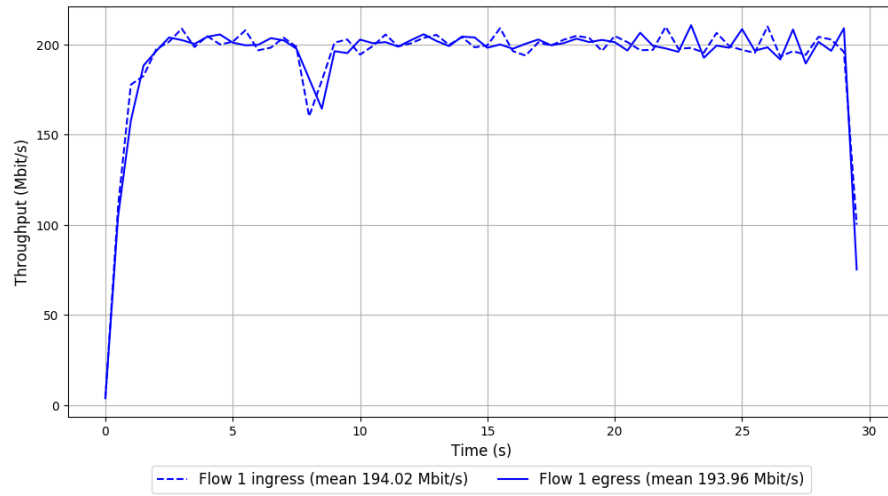
-- Flow 1:

Average throughput: 193.96 Mbit/s

95th percentile per-packet one-way delay: 51.347 ms

Loss rate: 0.34%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-21 15:18:50

End at: 2017-09-21 15:19:20

Below is generated by plot.py at 2017-09-21 18:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.62 Mbit/s

95th percentile per-packet one-way delay: 51.289 ms

Loss rate: 0.36%

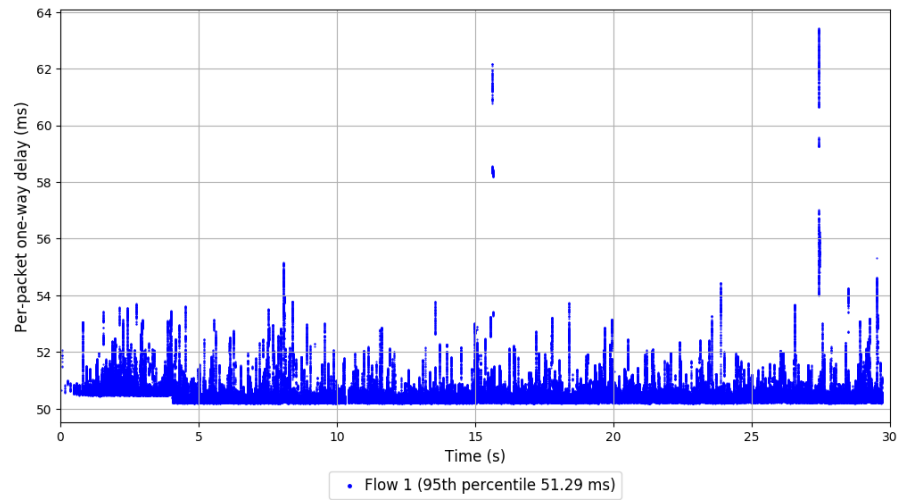
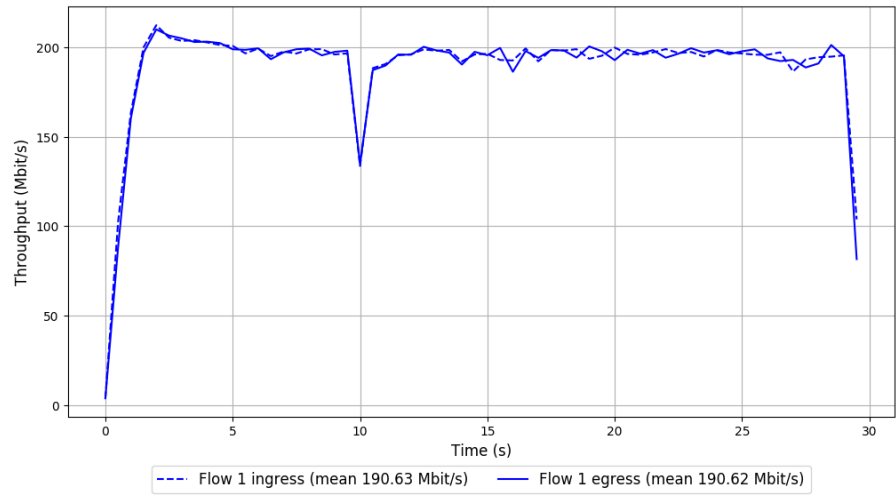
-- Flow 1:

Average throughput: 190.62 Mbit/s

95th percentile per-packet one-way delay: 51.289 ms

Loss rate: 0.36%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 15:29:31

End at: 2017-09-21 15:30:01

Below is generated by plot.py at 2017-09-21 18:42:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.85 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.33%

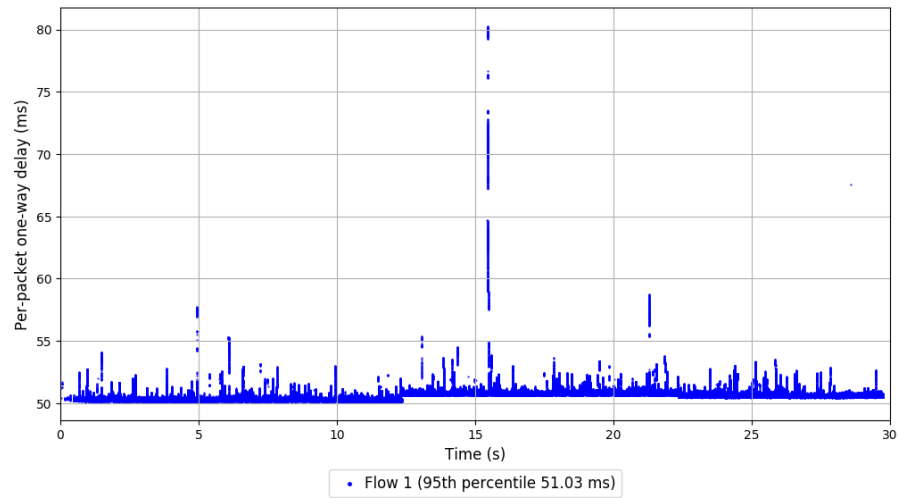
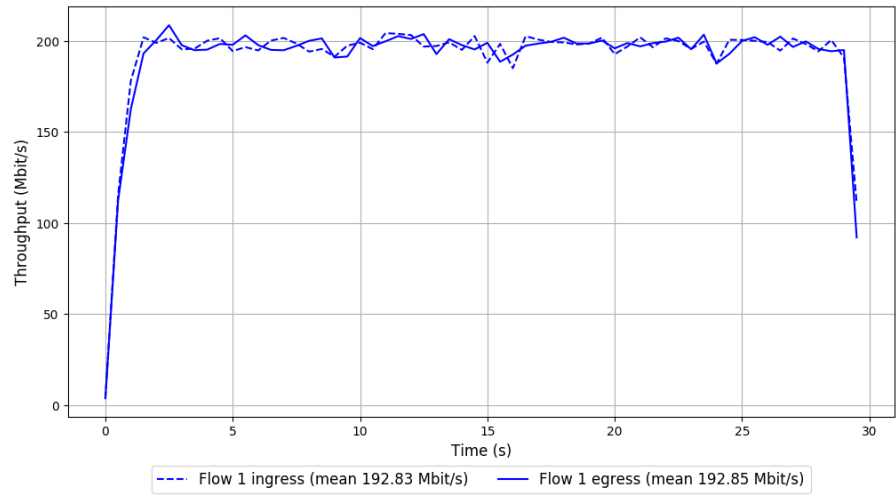
-- Flow 1:

Average throughput: 192.85 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.33%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 15:40:13

End at: 2017-09-21 15:40:43

Below is generated by plot.py at 2017-09-21 18:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.25 Mbit/s

95th percentile per-packet one-way delay: 50.775 ms

Loss rate: 0.35%

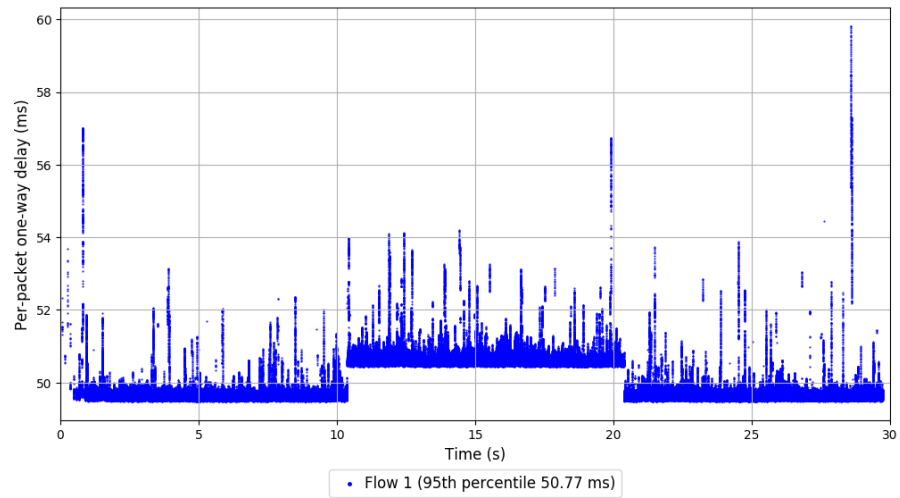
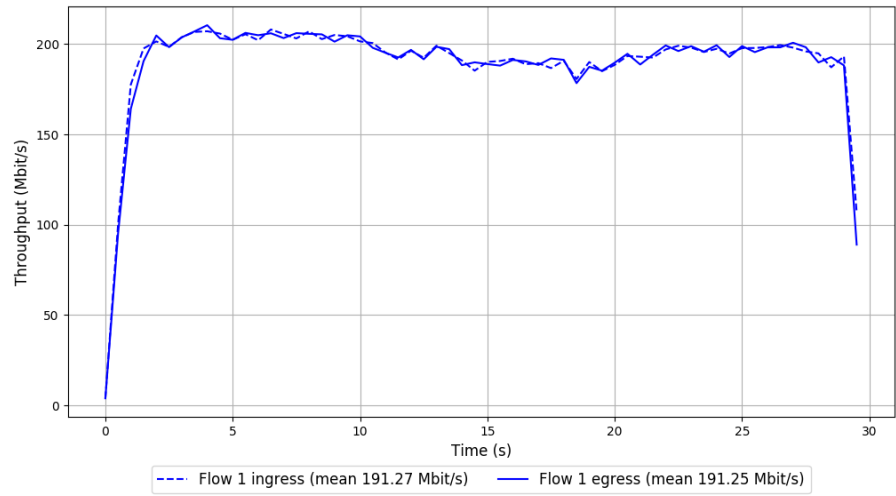
-- Flow 1:

Average throughput: 191.25 Mbit/s

95th percentile per-packet one-way delay: 50.775 ms

Loss rate: 0.35%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 15:50:53

End at: 2017-09-21 15:51:23

Below is generated by plot.py at 2017-09-21 18:42:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.86 Mbit/s

95th percentile per-packet one-way delay: 50.980 ms

Loss rate: 0.34%

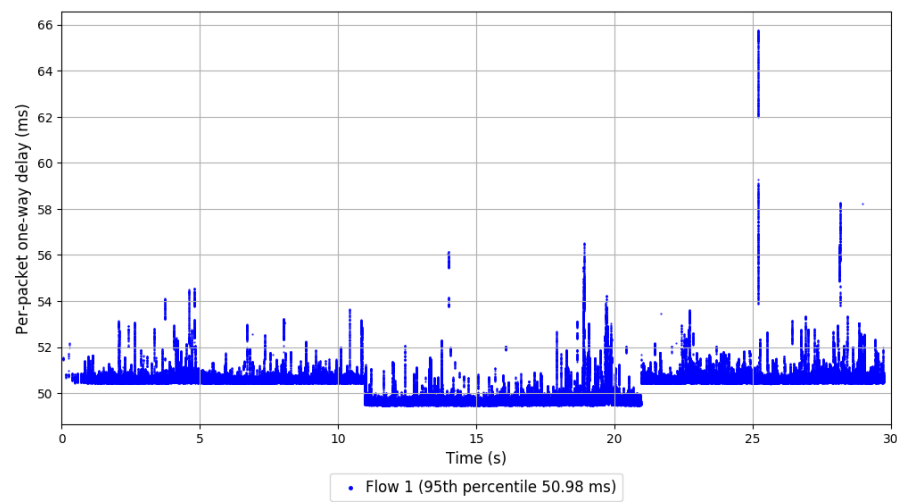
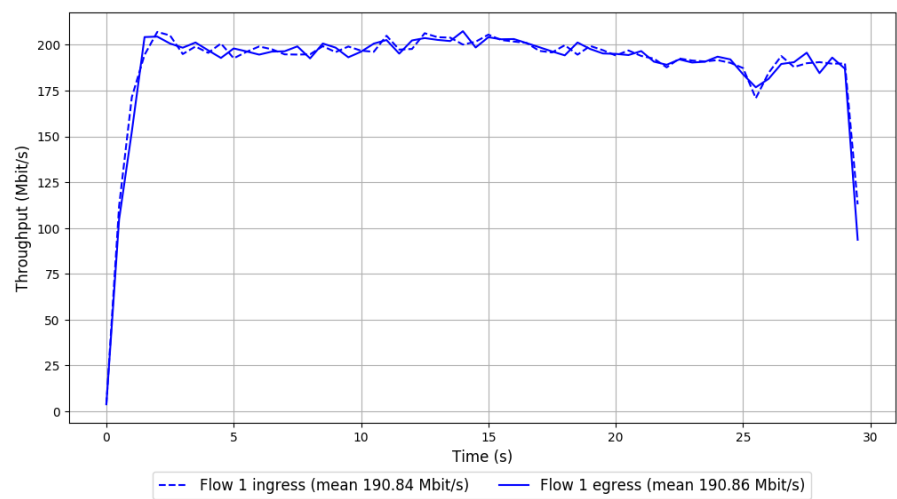
-- Flow 1:

Average throughput: 190.86 Mbit/s

95th percentile per-packet one-way delay: 50.980 ms

Loss rate: 0.34%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 16:01:40

End at: 2017-09-21 16:02:10

Below is generated by plot.py at 2017-09-21 18:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.03 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.35%

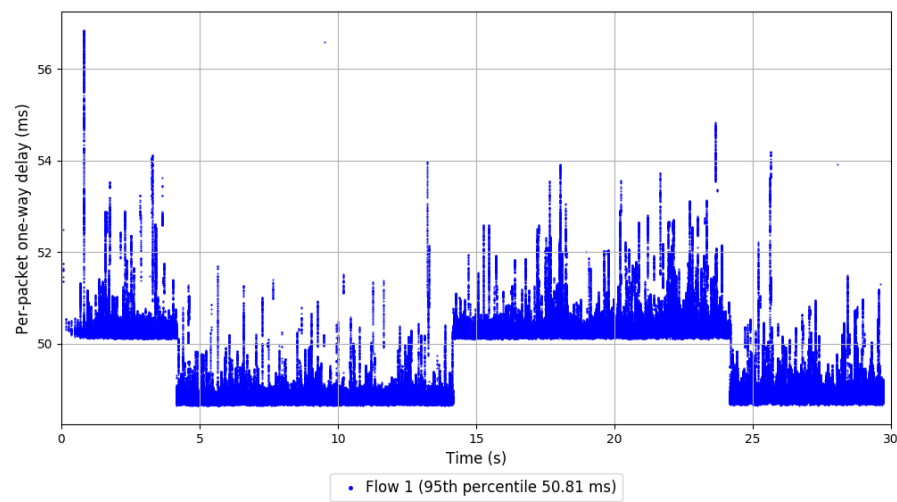
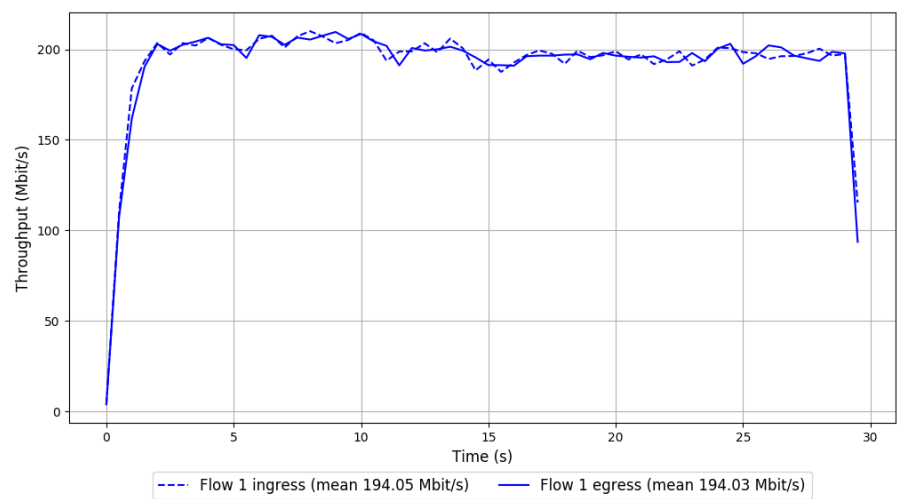
-- Flow 1:

Average throughput: 194.03 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.35%

Run 10: Report of Indigo — Data Link

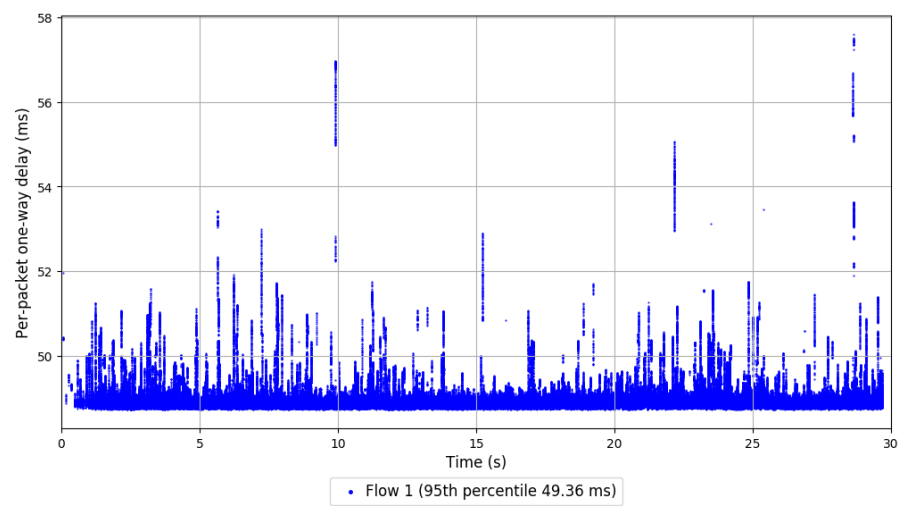
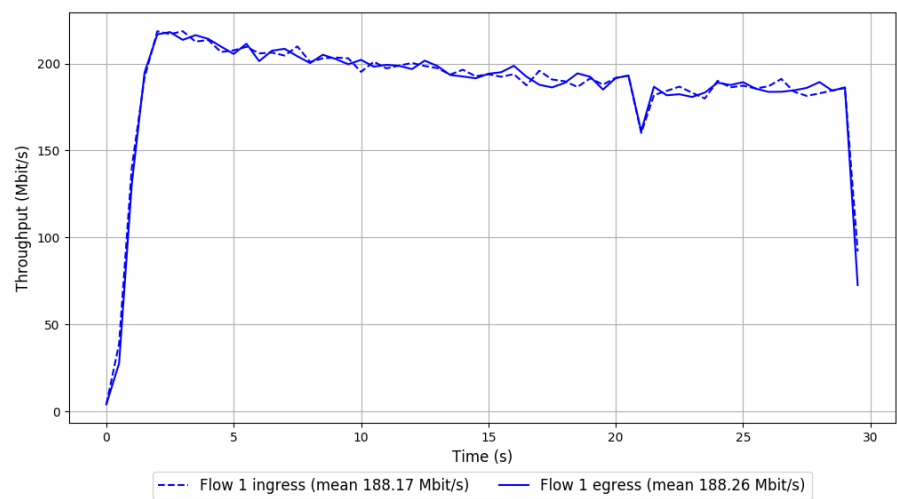


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 14:32:26
End at: 2017-09-21 14:32:56

# Below is generated by plot.py at 2017-09-21 18:43:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.26 Mbit/s
95th percentile per-packet one-way delay: 49.363 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 188.26 Mbit/s
95th percentile per-packet one-way delay: 49.363 ms
Loss rate: 0.30%
```


Run 1: Report of Indigo-calib — Data Link

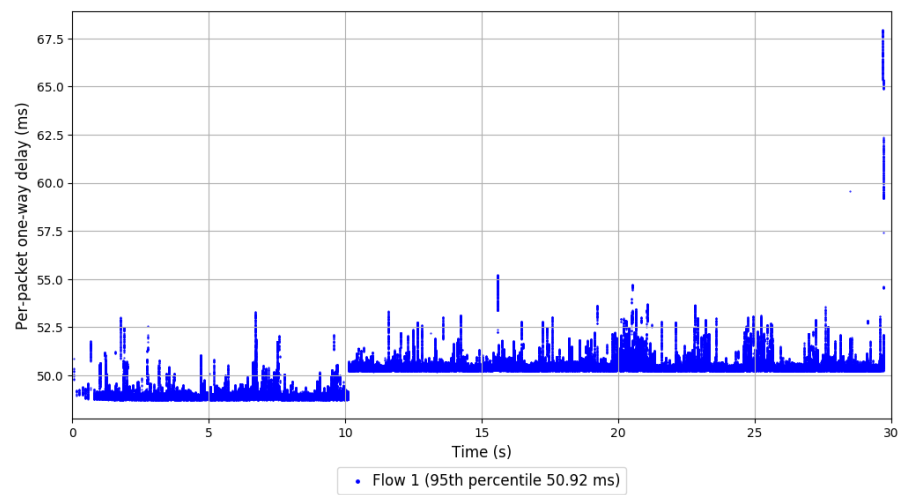
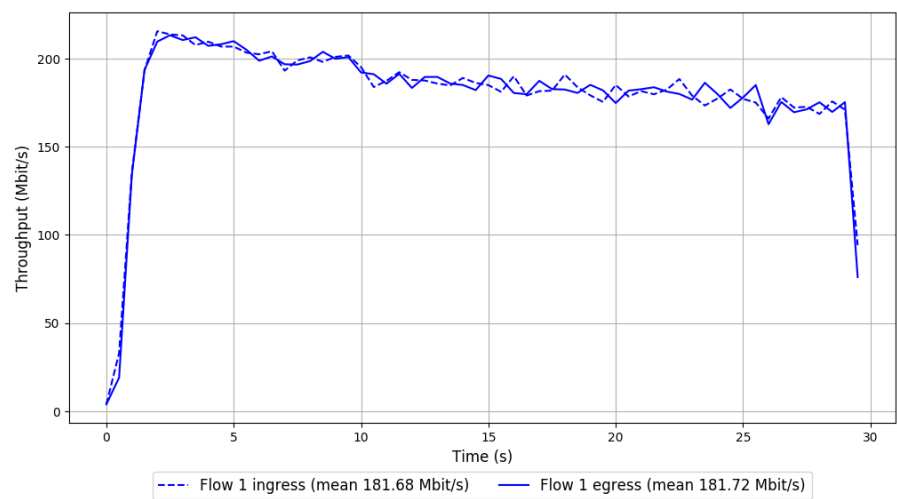


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 14:42:54
End at: 2017-09-21 14:43:24

# Below is generated by plot.py at 2017-09-21 18:45:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.72 Mbit/s
95th percentile per-packet one-way delay: 50.925 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 181.72 Mbit/s
95th percentile per-packet one-way delay: 50.925 ms
Loss rate: 0.31%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 14:53:38

End at: 2017-09-21 14:54:08

Below is generated by plot.py at 2017-09-21 18:46:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 51.119 ms

Loss rate: 0.35%

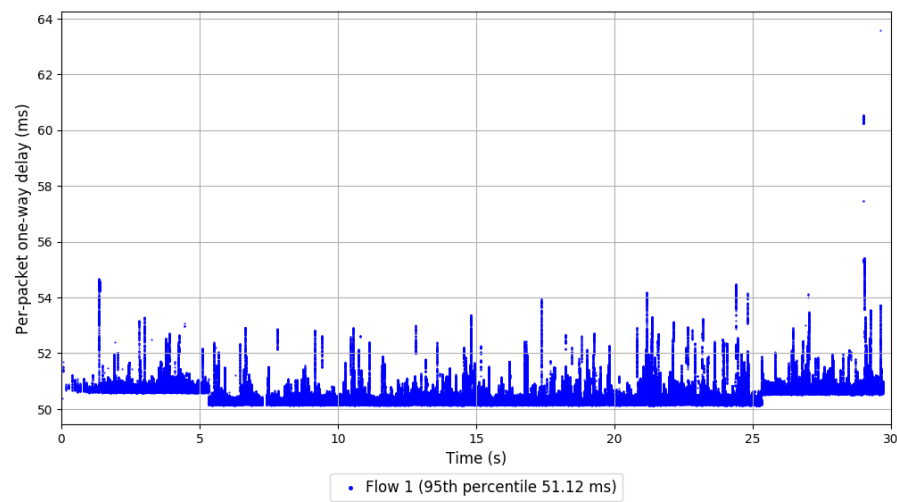
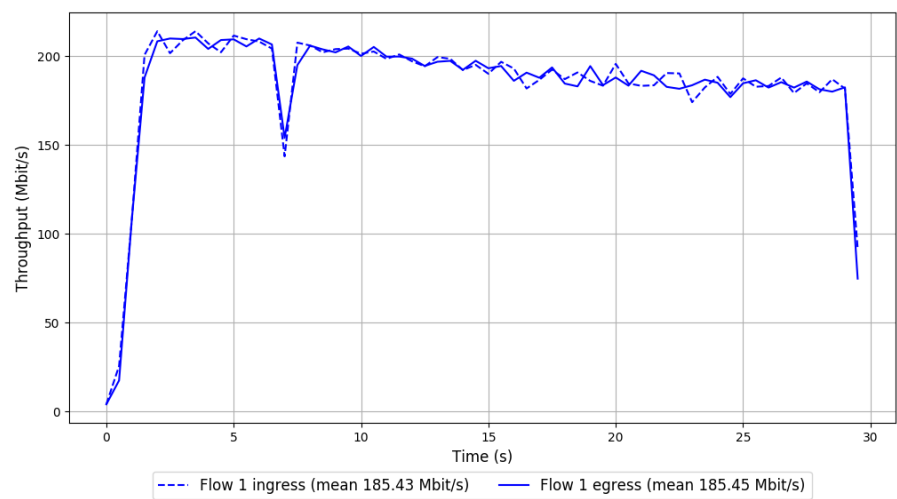
-- Flow 1:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 51.119 ms

Loss rate: 0.35%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 15:04:17

End at: 2017-09-21 15:04:47

Below is generated by plot.py at 2017-09-21 18:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.59 Mbit/s

95th percentile per-packet one-way delay: 51.782 ms

Loss rate: 0.32%

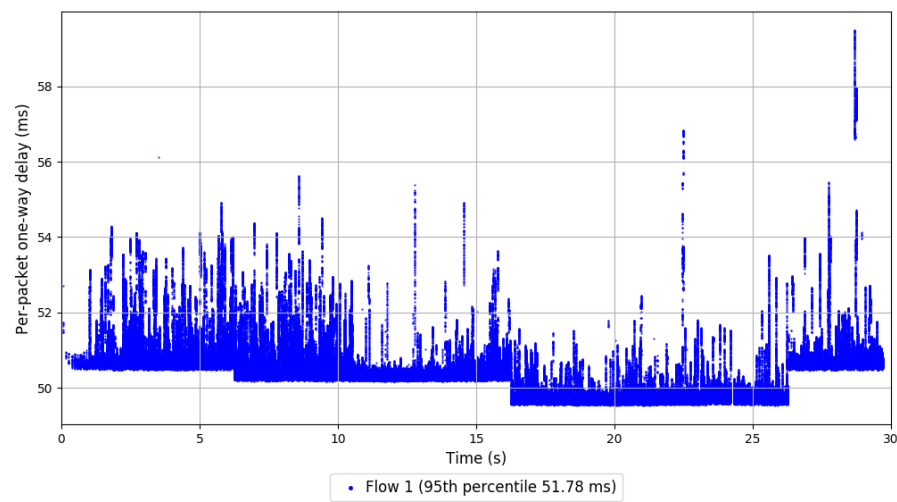
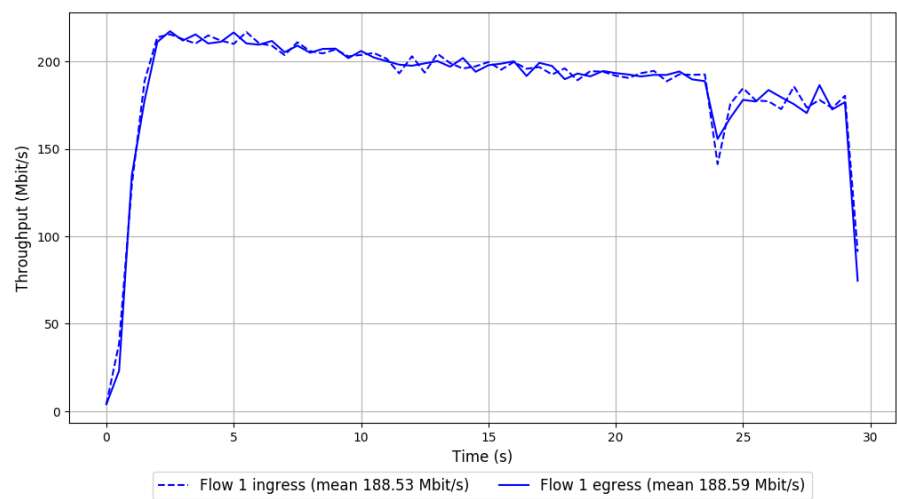
-- Flow 1:

Average throughput: 188.59 Mbit/s

95th percentile per-packet one-way delay: 51.782 ms

Loss rate: 0.32%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 15:15:01

End at: 2017-09-21 15:15:31

Below is generated by plot.py at 2017-09-21 18:46:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.44 Mbit/s

95th percentile per-packet one-way delay: 51.599 ms

Loss rate: 0.35%

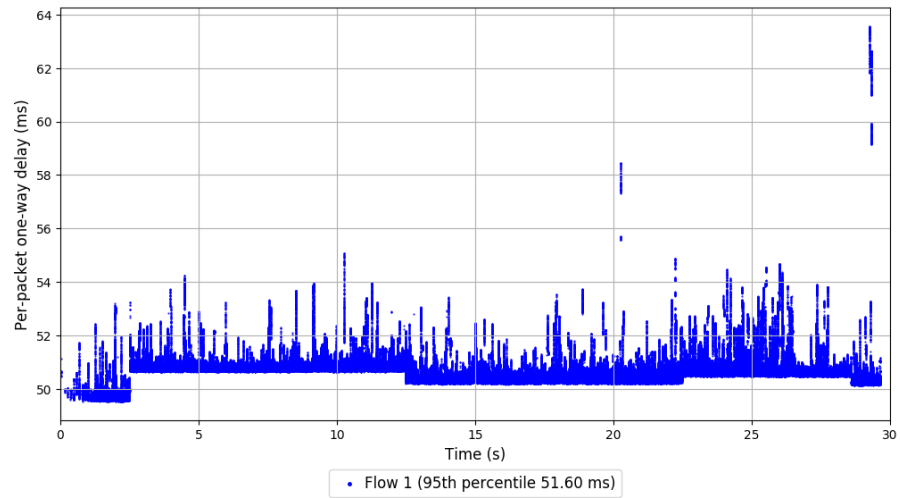
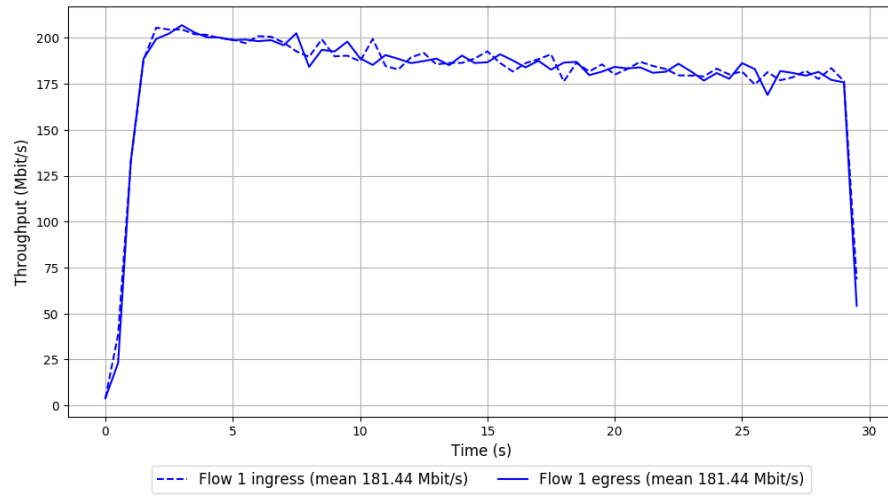
-- Flow 1:

Average throughput: 181.44 Mbit/s

95th percentile per-packet one-way delay: 51.599 ms

Loss rate: 0.35%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 15:25:25

End at: 2017-09-21 15:25:55

Below is generated by plot.py at 2017-09-21 18:46:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.69 Mbit/s

95th percentile per-packet one-way delay: 51.196 ms

Loss rate: 0.34%

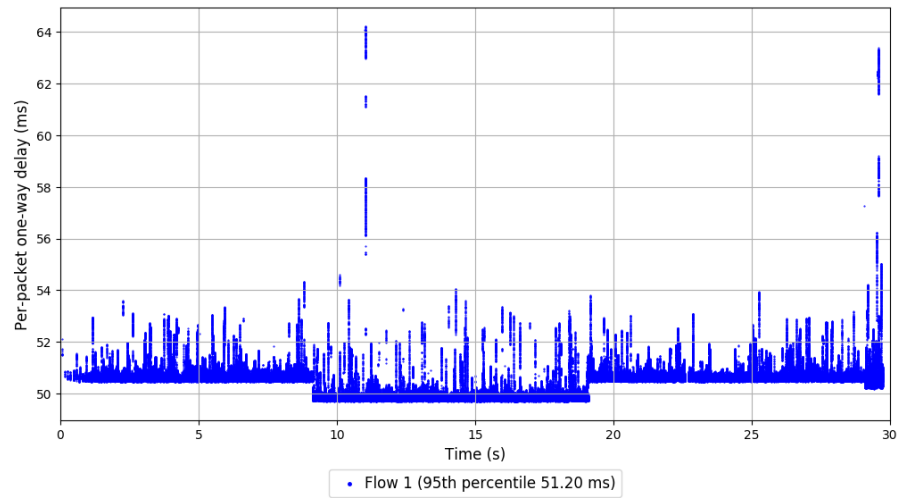
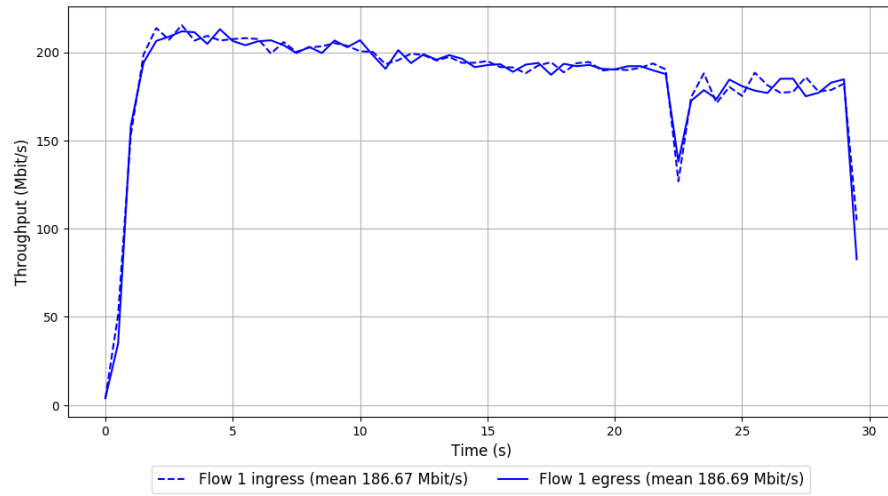
-- Flow 1:

Average throughput: 186.69 Mbit/s

95th percentile per-packet one-way delay: 51.196 ms

Loss rate: 0.34%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 15:36:06

End at: 2017-09-21 15:36:36

Below is generated by plot.py at 2017-09-21 18:46:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.18 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.35%

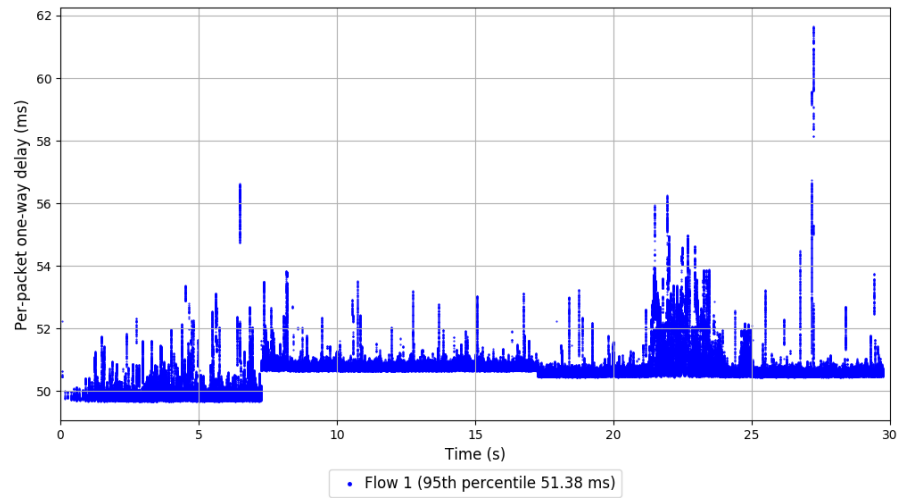
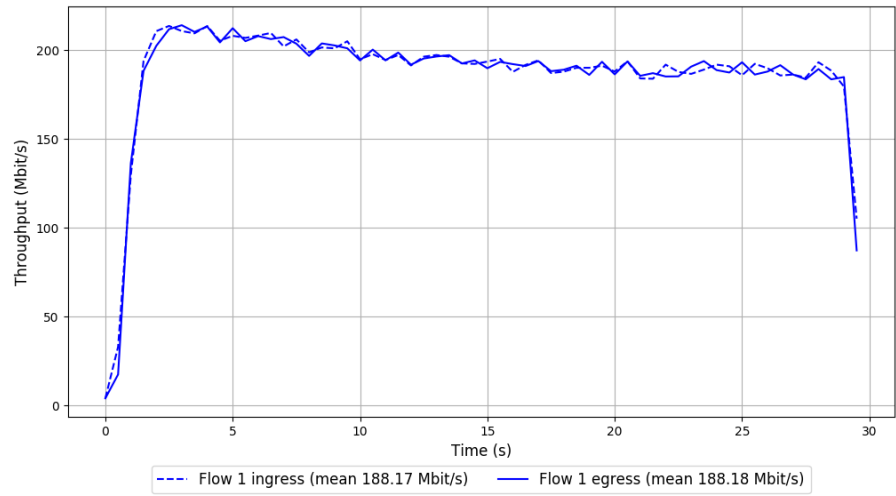
-- Flow 1:

Average throughput: 188.18 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.35%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 15:46:45

End at: 2017-09-21 15:47:15

Below is generated by plot.py at 2017-09-21 18:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.04 Mbit/s

95th percentile per-packet one-way delay: 50.991 ms

Loss rate: 0.34%

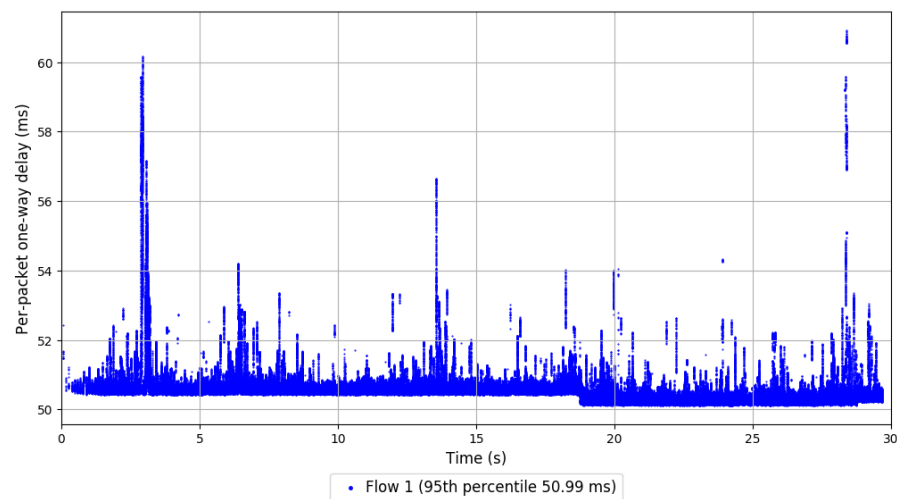
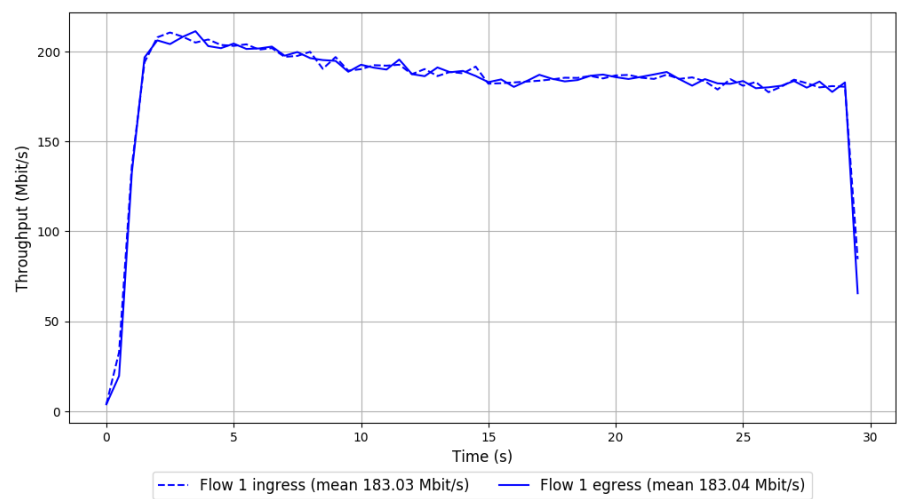
-- Flow 1:

Average throughput: 183.04 Mbit/s

95th percentile per-packet one-way delay: 50.991 ms

Loss rate: 0.34%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 15:57:29

End at: 2017-09-21 15:57:59

Below is generated by plot.py at 2017-09-21 18:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.56 Mbit/s

95th percentile per-packet one-way delay: 51.714 ms

Loss rate: 0.31%

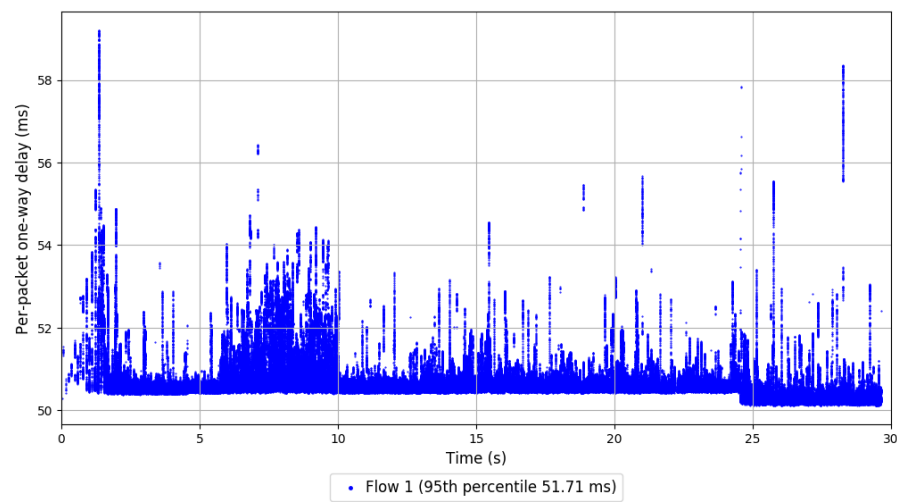
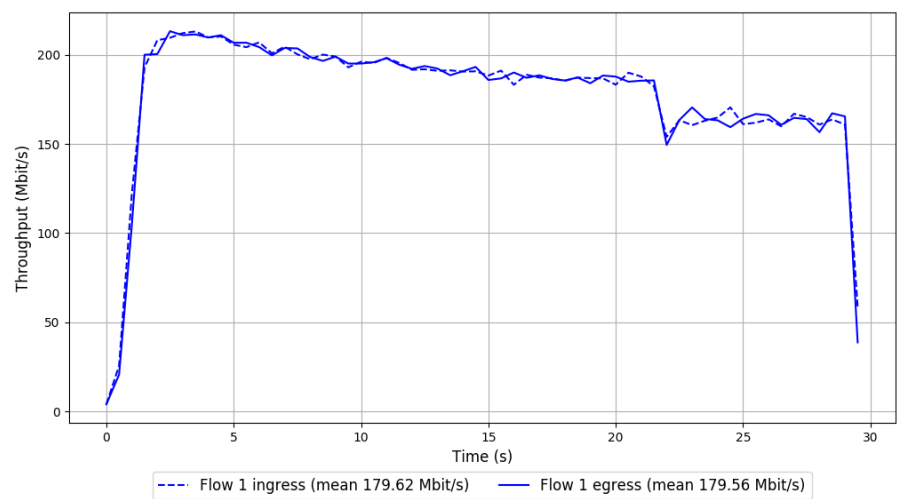
-- Flow 1:

Average throughput: 179.56 Mbit/s

95th percentile per-packet one-way delay: 51.714 ms

Loss rate: 0.31%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 16:08:14

End at: 2017-09-21 16:08:44

Below is generated by plot.py at 2017-09-21 18:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.76 Mbit/s

95th percentile per-packet one-way delay: 51.851 ms

Loss rate: 0.33%

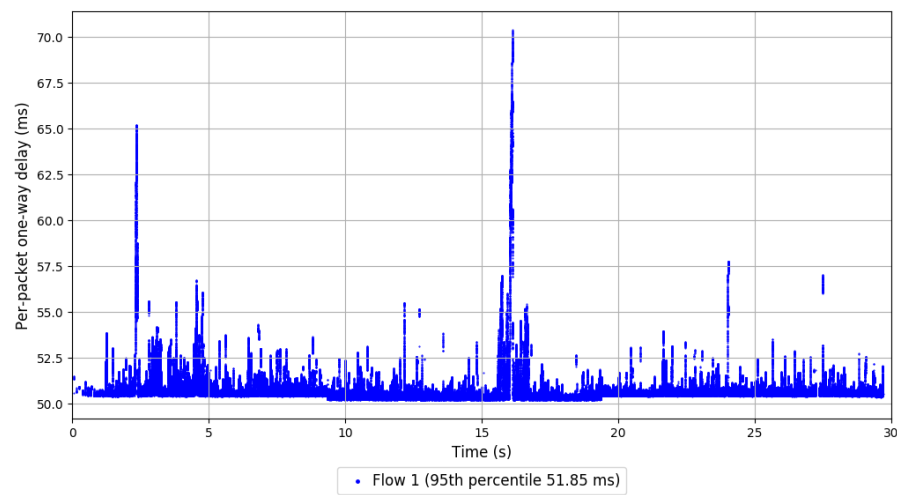
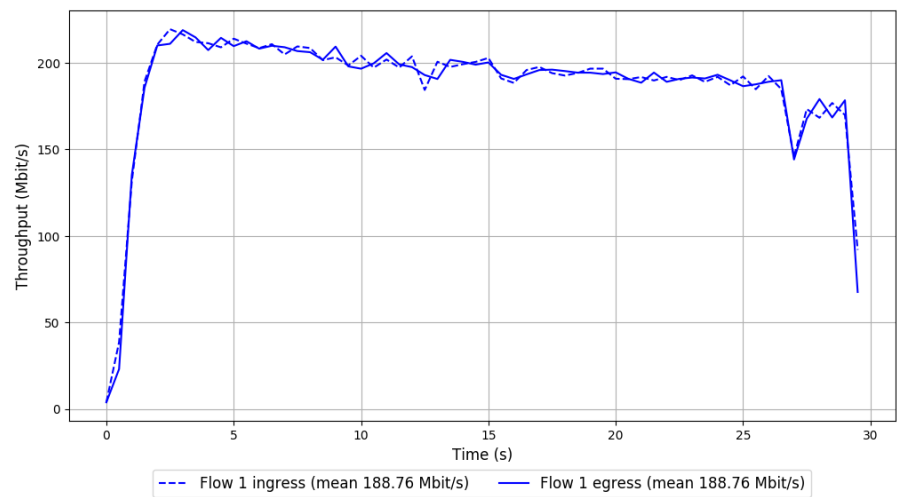
-- Flow 1:

Average throughput: 188.76 Mbit/s

95th percentile per-packet one-way delay: 51.851 ms

Loss rate: 0.33%

Run 10: Report of Indigo-calib — Data Link

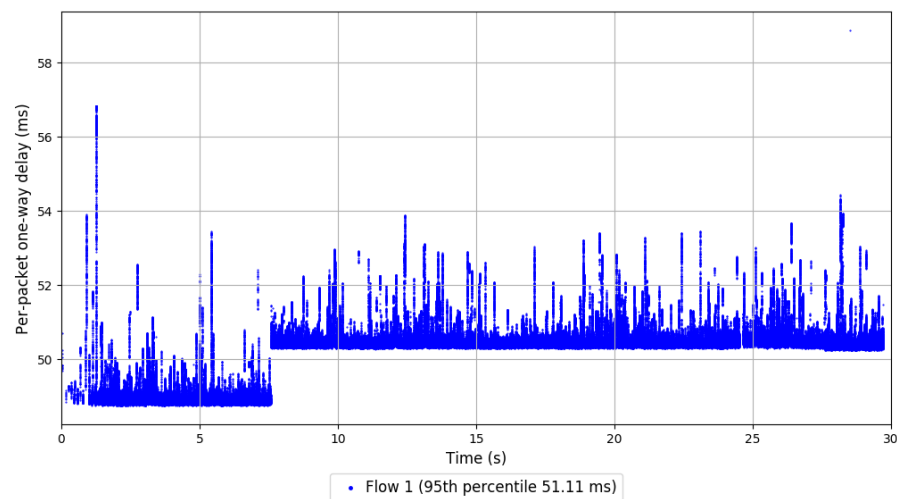
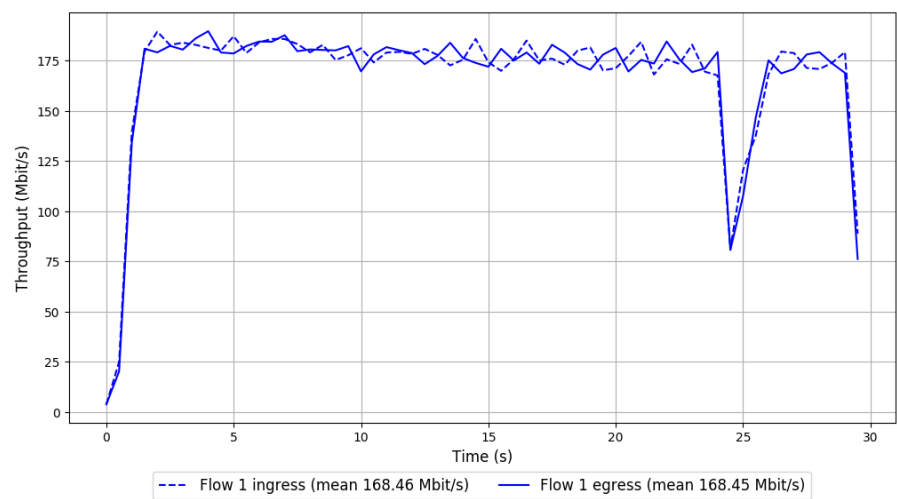


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 14:27:26
End at: 2017-09-21 14:27:56

# Below is generated by plot.py at 2017-09-21 18:49:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.45 Mbit/s
95th percentile per-packet one-way delay: 51.108 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 168.45 Mbit/s
95th percentile per-packet one-way delay: 51.108 ms
Loss rate: 0.35%
```

Run 1: Report of Indigo-delay — Data Link

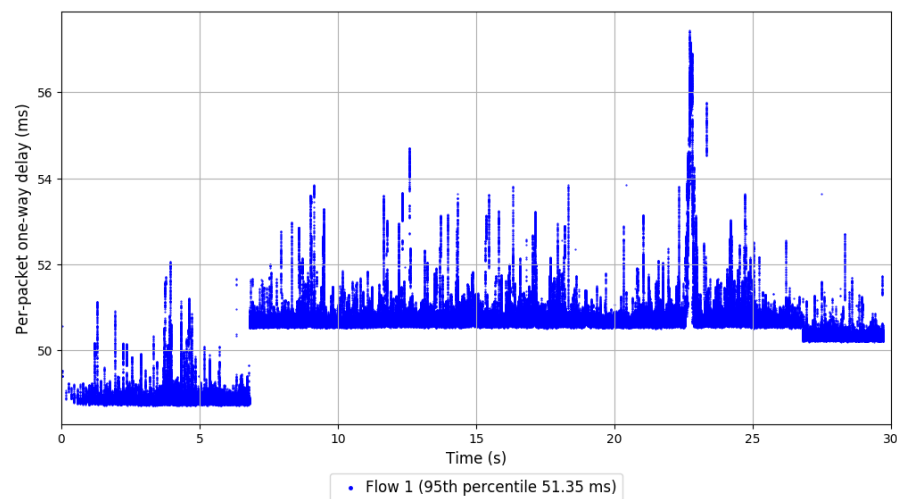
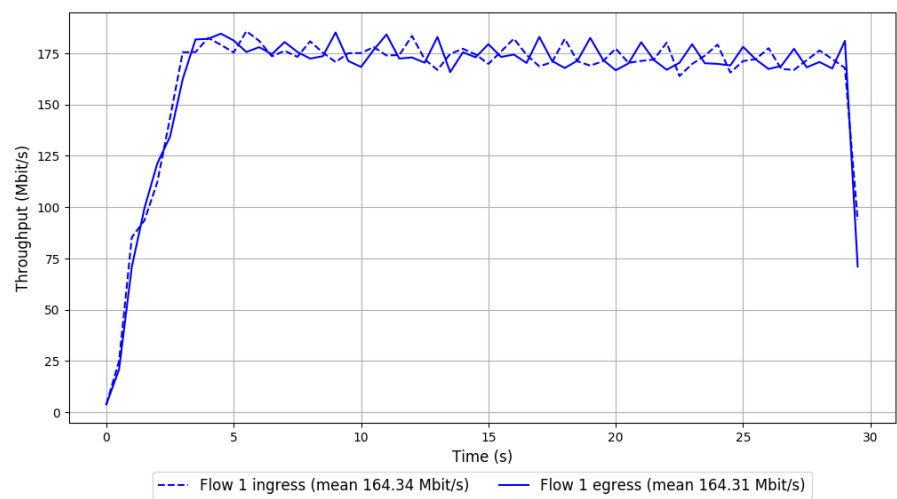


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 14:37:47
End at: 2017-09-21 14:38:17

# Below is generated by plot.py at 2017-09-21 18:49:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.31 Mbit/s
95th percentile per-packet one-way delay: 51.346 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 164.31 Mbit/s
95th percentile per-packet one-way delay: 51.346 ms
Loss rate: 0.35%
```

Run 2: Report of Indigo-delay — Data Link

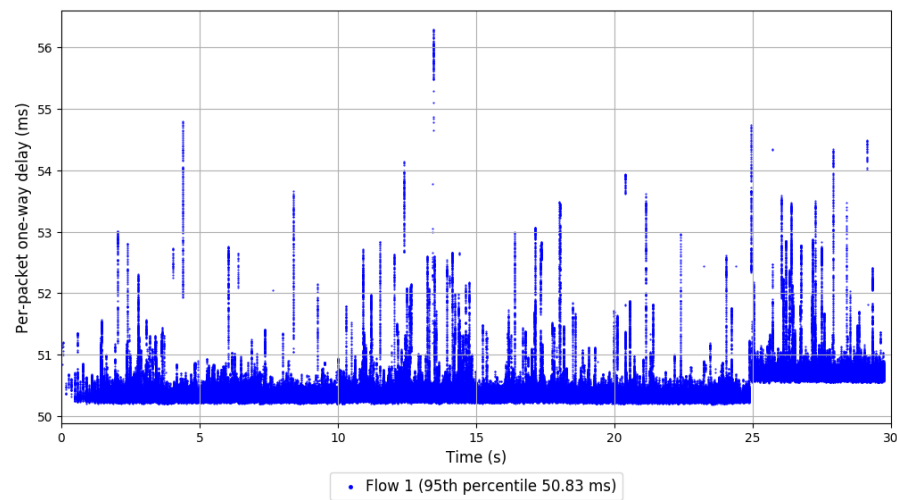
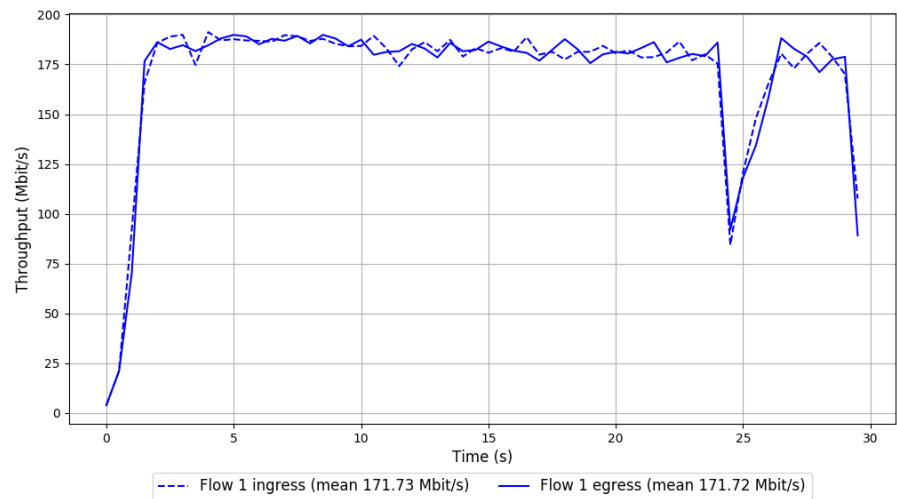


```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 14:48:29
End at: 2017-09-21 14:48:59

# Below is generated by plot.py at 2017-09-21 18:49:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.72 Mbit/s
95th percentile per-packet one-way delay: 50.831 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 171.72 Mbit/s
95th percentile per-packet one-way delay: 50.831 ms
Loss rate: 0.35%
```


Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 14:59:12

End at: 2017-09-21 14:59:42

Below is generated by plot.py at 2017-09-21 18:50:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.43 Mbit/s

95th percentile per-packet one-way delay: 51.170 ms

Loss rate: 0.35%

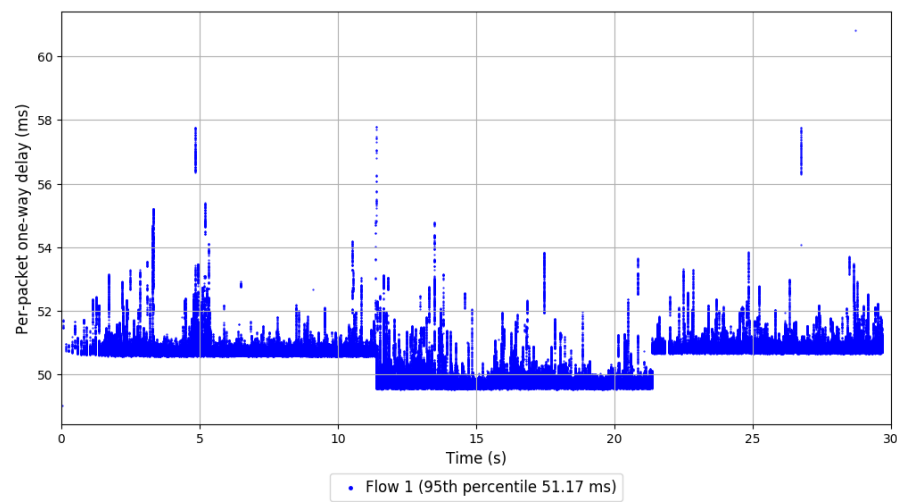
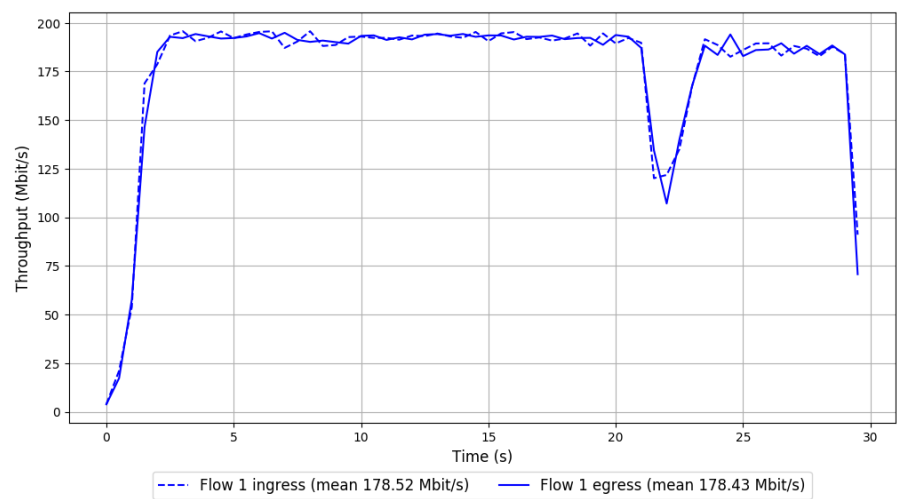
-- Flow 1:

Average throughput: 178.43 Mbit/s

95th percentile per-packet one-way delay: 51.170 ms

Loss rate: 0.35%

Run 4: Report of Indigo-delay — Data Link

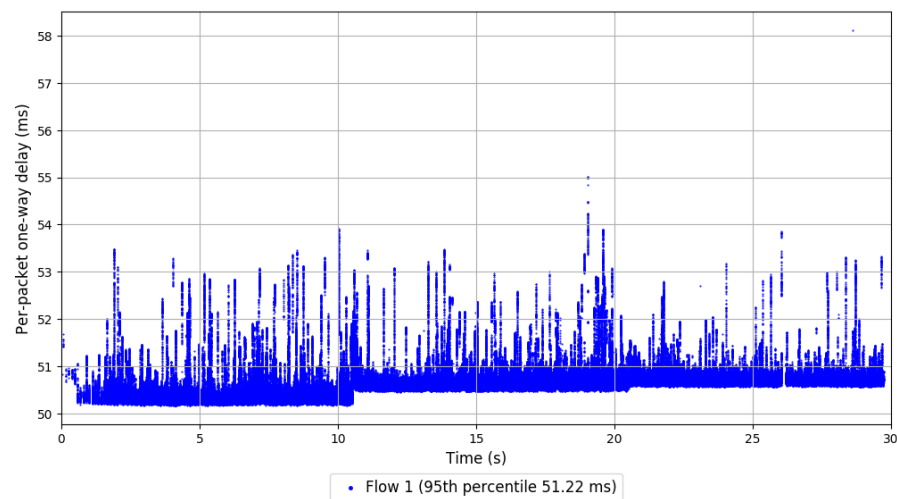
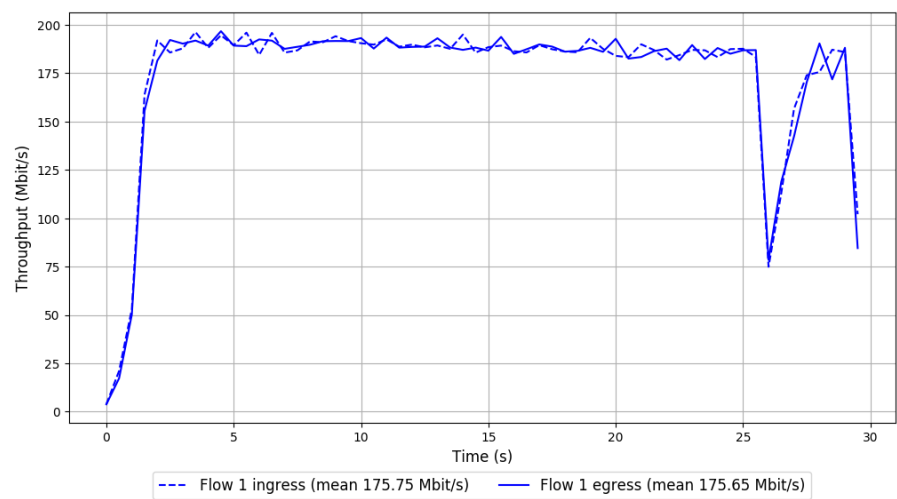


```
Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 15:09:53
End at: 2017-09-21 15:10:23

# Below is generated by plot.py at 2017-09-21 18:50:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.65 Mbit/s
95th percentile per-packet one-way delay: 51.220 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 175.65 Mbit/s
95th percentile per-packet one-way delay: 51.220 ms
Loss rate: 0.38%
```

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 15:20:18

End at: 2017-09-21 15:20:48

Below is generated by plot.py at 2017-09-21 18:50:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.67 Mbit/s

95th percentile per-packet one-way delay: 50.860 ms

Loss rate: 0.36%

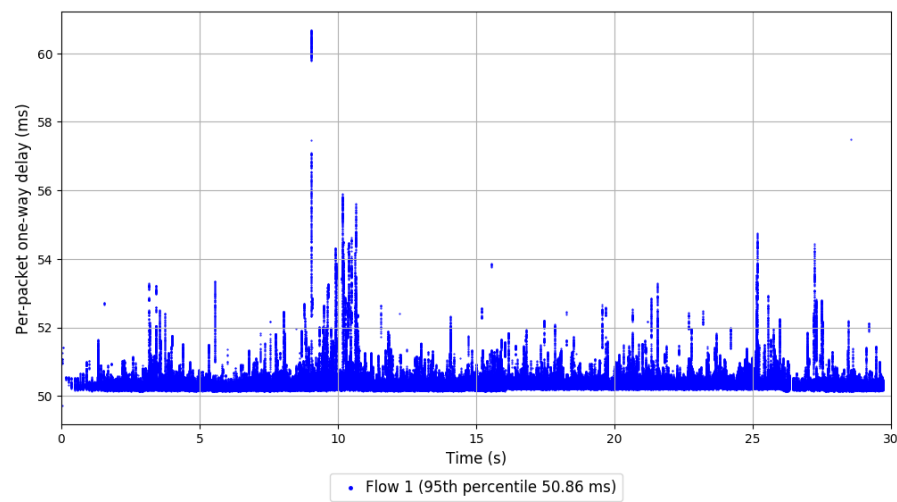
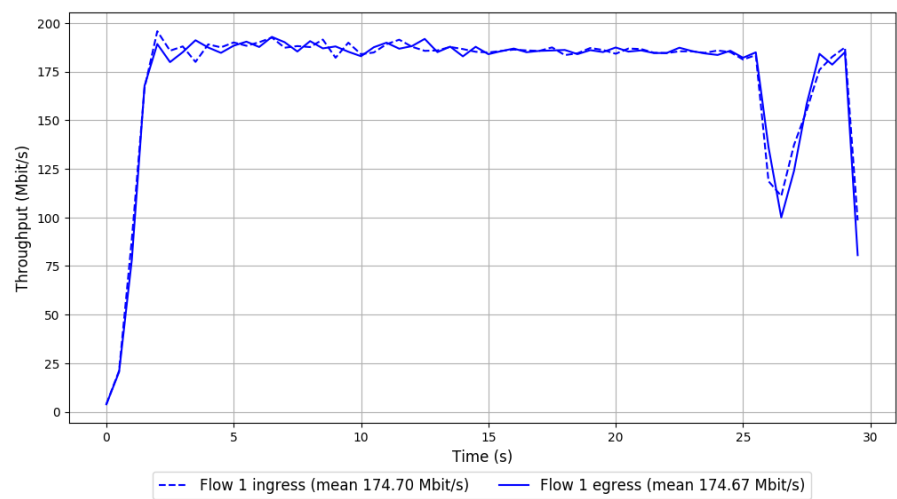
-- Flow 1:

Average throughput: 174.67 Mbit/s

95th percentile per-packet one-way delay: 50.860 ms

Loss rate: 0.36%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 15:31:00

End at: 2017-09-21 15:31:30

Below is generated by plot.py at 2017-09-21 18:50:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.31 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.36%

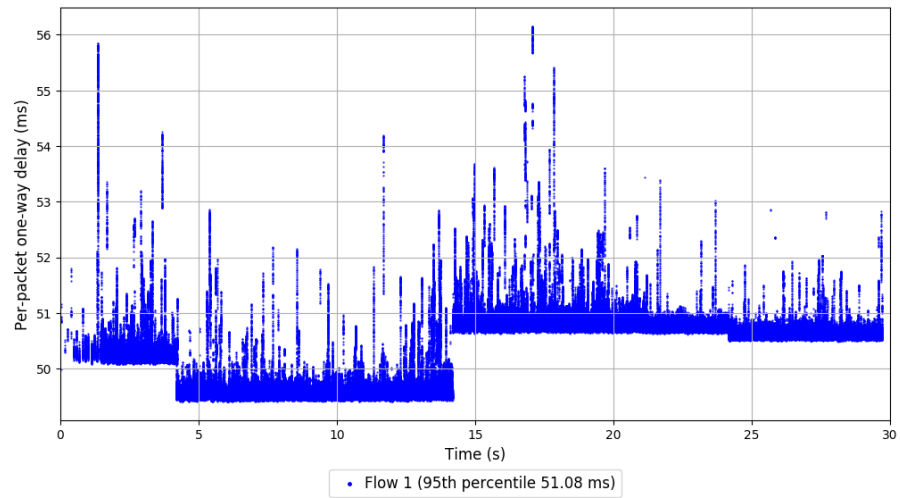
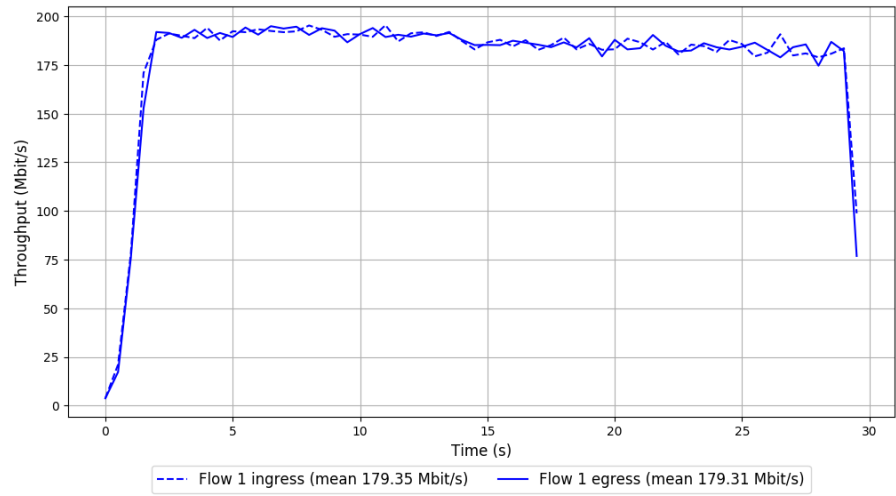
-- Flow 1:

Average throughput: 179.31 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.36%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 15:41:41

End at: 2017-09-21 15:42:11

Below is generated by plot.py at 2017-09-21 18:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.89 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.36%

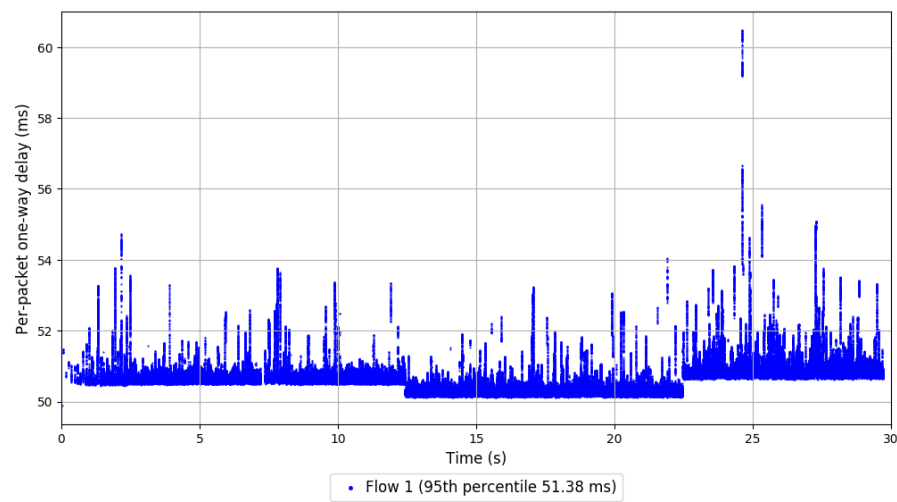
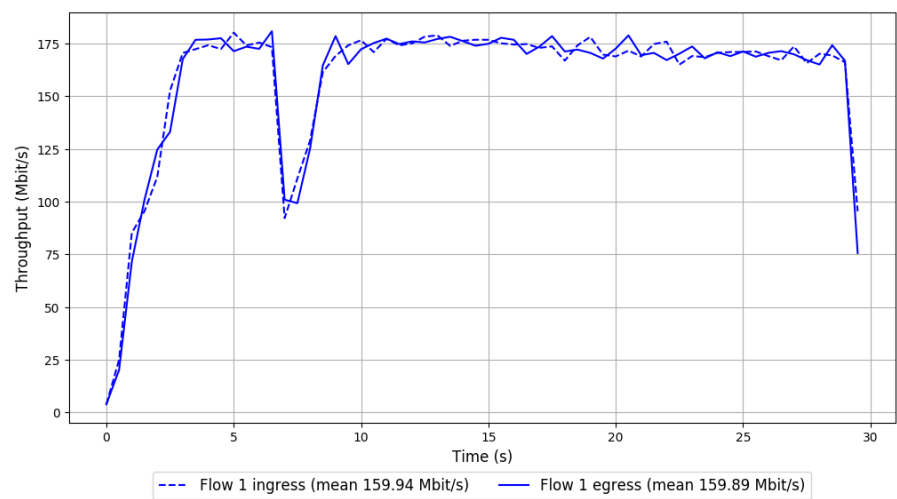
-- Flow 1:

Average throughput: 159.89 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.36%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 15:52:20

End at: 2017-09-21 15:52:50

Below is generated by plot.py at 2017-09-21 18:51:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.82 Mbit/s

95th percentile per-packet one-way delay: 51.207 ms

Loss rate: 0.36%

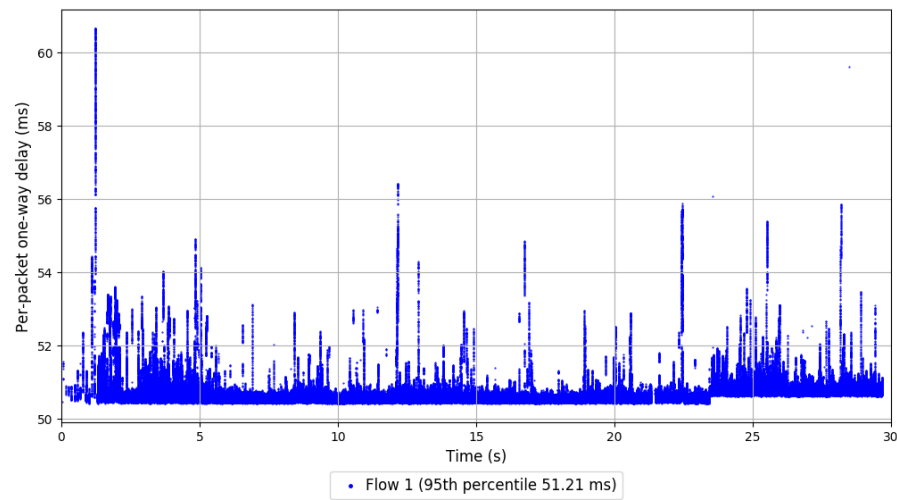
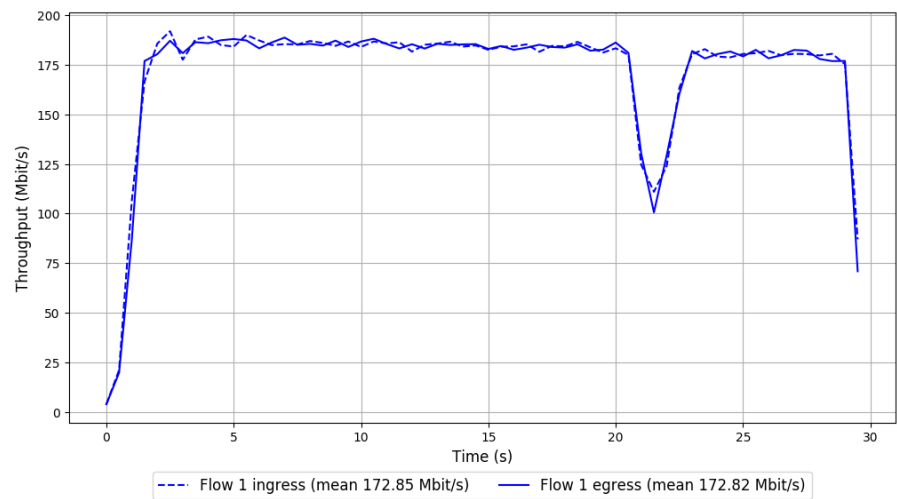
-- Flow 1:

Average throughput: 172.82 Mbit/s

95th percentile per-packet one-way delay: 51.207 ms

Loss rate: 0.36%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 16:03:08

End at: 2017-09-21 16:03:38

Below is generated by plot.py at 2017-09-21 18:51:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.42 Mbit/s

95th percentile per-packet one-way delay: 50.854 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 180.42 Mbit/s

95th percentile per-packet one-way delay: 50.854 ms

Loss rate: 0.35%

Run 10: Report of Indigo-delay — Data Link

