

Pantheon Report

Generated at 2017-11-21 07:02:34 (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.

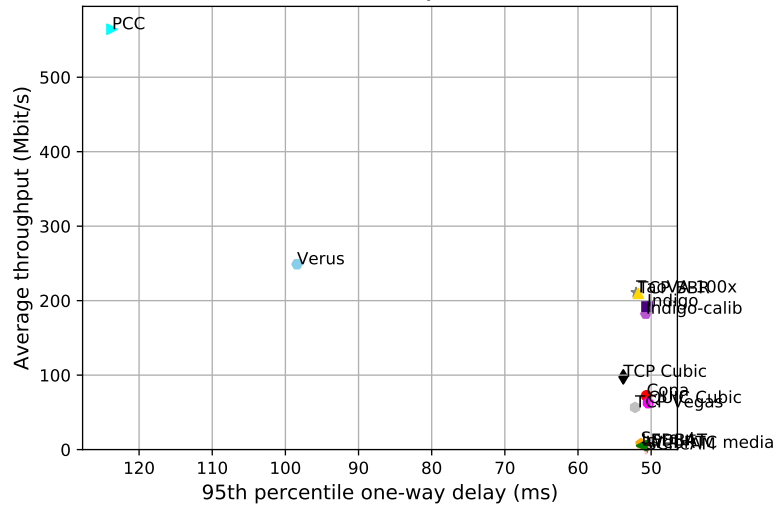
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

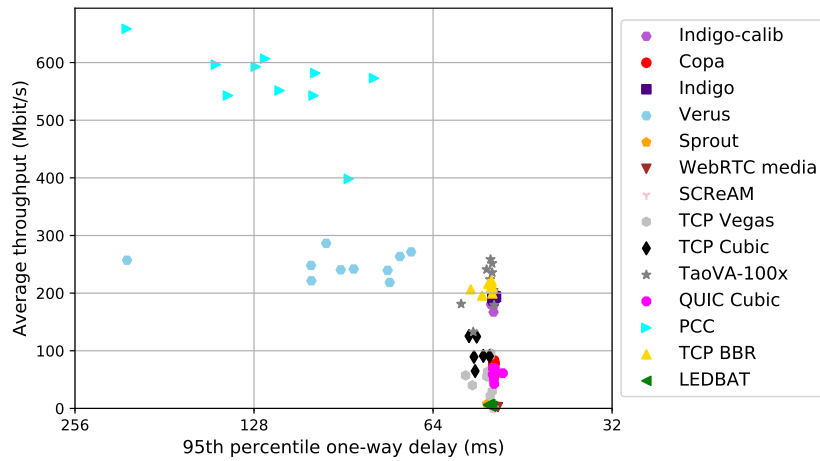
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
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	9	209.83	51.77	0.37
TCP Cubic	6	97.67	53.81	0.33
LEDBAT	10	5.27	51.33	0.58
PCC	10	564.44	123.70	1.49
QUIC Cubic	10	62.60	50.41	0.41
SCReAM	10	0.22	50.72	0.39
WebRTC media	10	2.28	50.64	0.40
Sprout	10	7.94	51.42	0.44
TaoVA-100x	10	210.97	52.06	0.34
TCP Vegas	10	56.66	52.20	0.24
Verus	10	248.83	98.42	1.57
Copa	10	72.22	50.62	0.26
Indigo	10	192.48	50.57	0.36
Indigo-calib	10	182.44	50.73	0.31

Run 1: Statistics of TCP BBR

Start at: 2017-11-21 02:43:18

End at: 2017-11-21 02:43:48

Below is generated by plot.py at 2017-11-21 06:16:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.45%

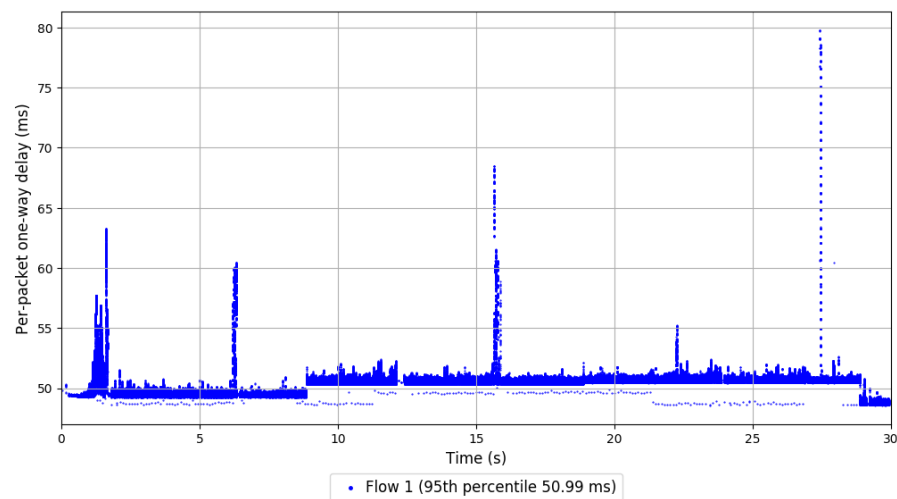
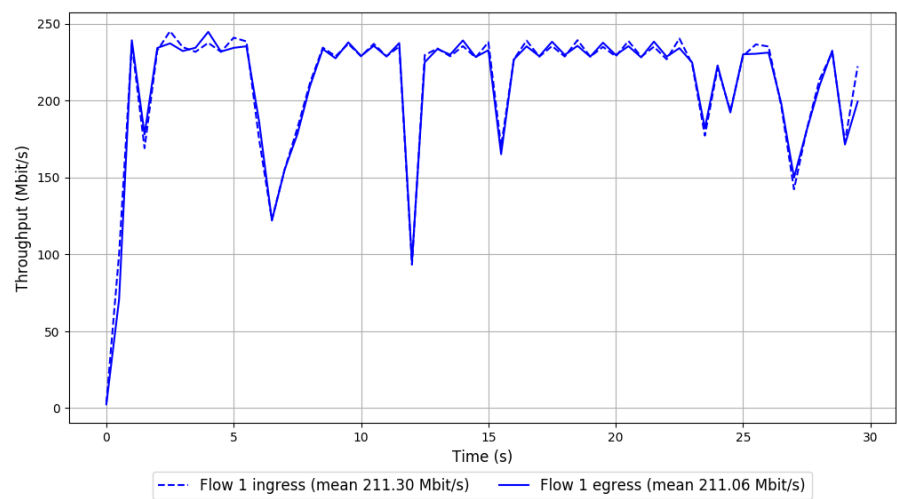
-- Flow 1:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.45%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 02:53:46

End at: 2017-11-21 02:54:16

Below is generated by plot.py at 2017-11-21 06:16:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.07 Mbit/s

95th percentile per-packet one-way delay: 51.073 ms

Loss rate: 0.36%

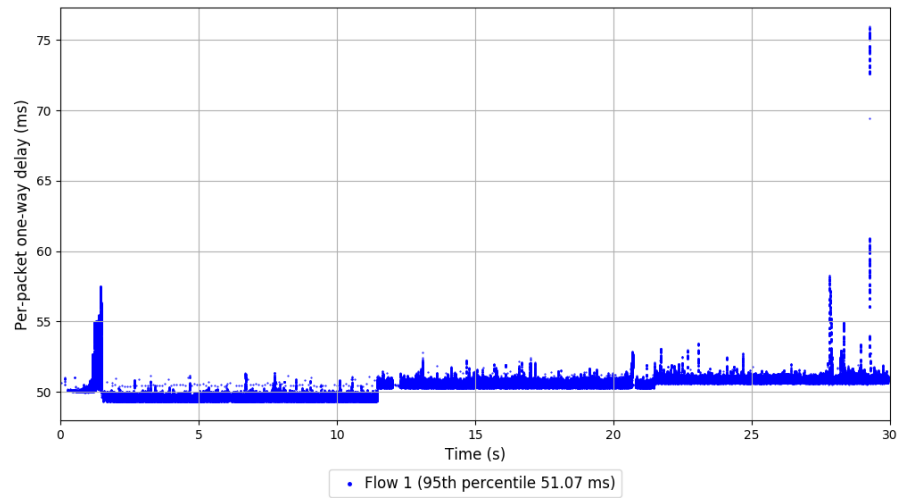
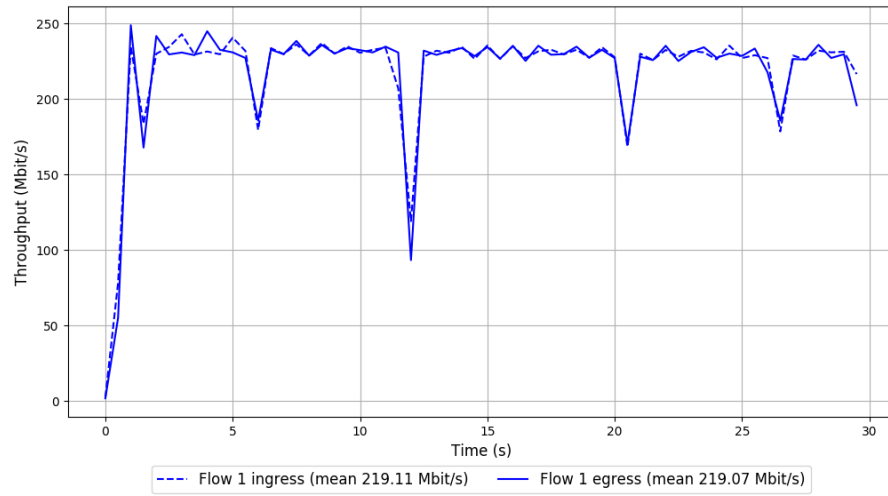
-- Flow 1:

Average throughput: 219.07 Mbit/s

95th percentile per-packet one-way delay: 51.073 ms

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 03:04:23

End at: 2017-11-21 03:04:53

Below is generated by plot.py at 2017-11-21 06:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.45 Mbit/s

95th percentile per-packet one-way delay: 51.015 ms

Loss rate: 0.41%

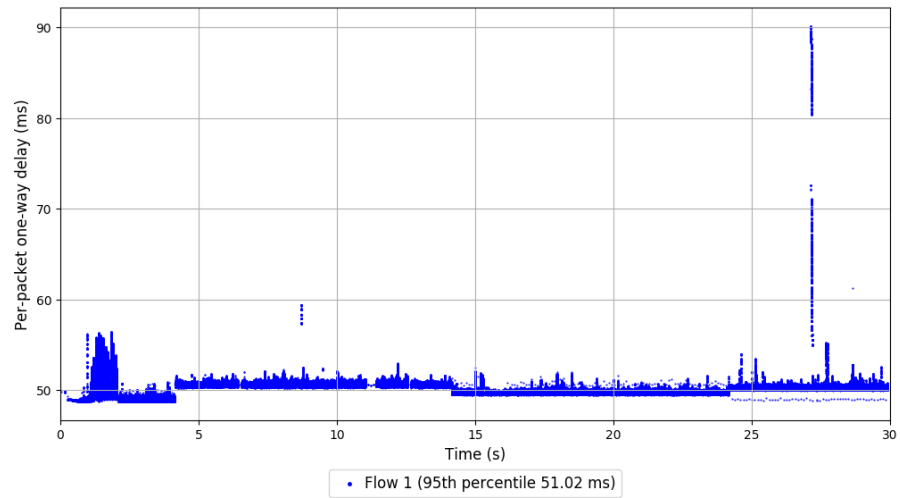
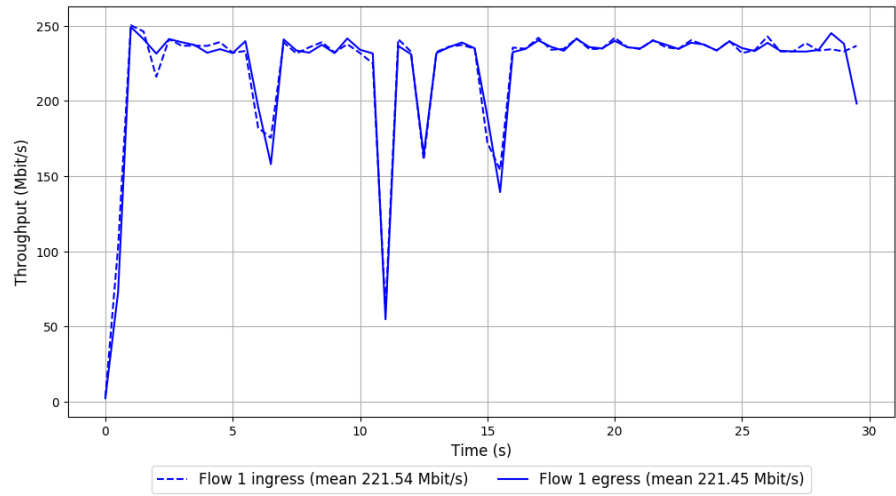
-- Flow 1:

Average throughput: 221.45 Mbit/s

95th percentile per-packet one-way delay: 51.015 ms

Loss rate: 0.41%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 03:14:59

End at: 2017-11-21 03:15:29

Below is generated by plot.py at 2017-11-21 06:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.51 Mbit/s

95th percentile per-packet one-way delay: 50.871 ms

Loss rate: 0.45%

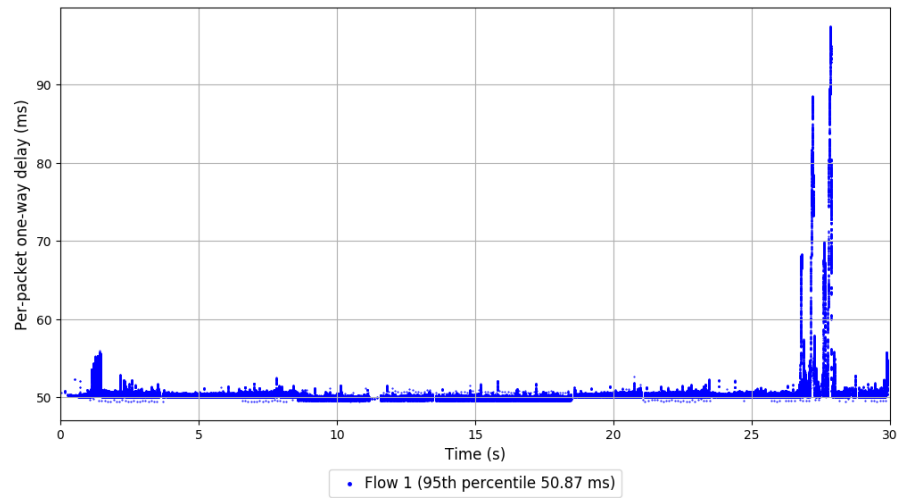
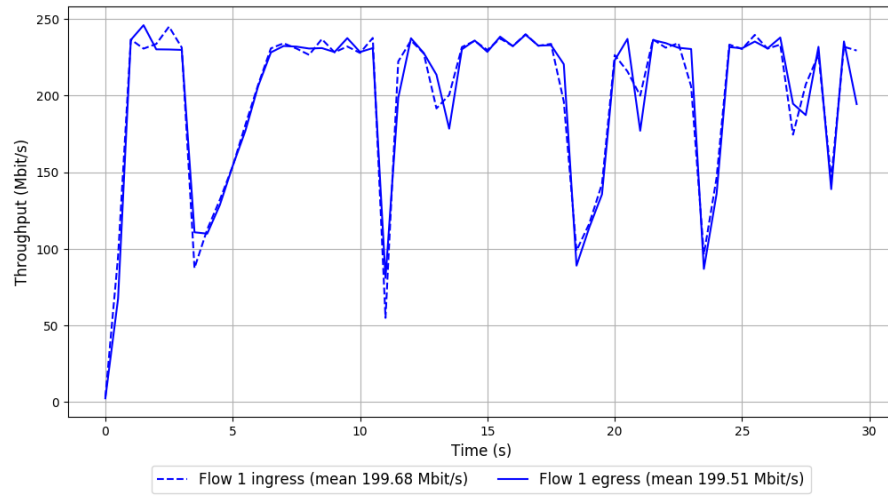
-- Flow 1:

Average throughput: 199.51 Mbit/s

95th percentile per-packet one-way delay: 50.871 ms

Loss rate: 0.45%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 03:25:28

End at: 2017-11-21 03:25:58

Run 5: Report of TCP BBR — Data Link

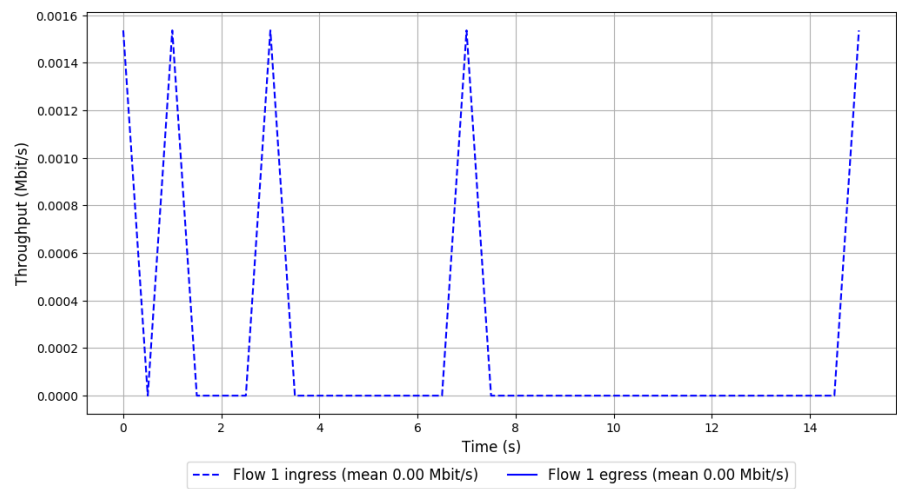


Figure is missing

Run 6: Statistics of TCP BBR

Start at: 2017-11-21 03:35:56

End at: 2017-11-21 03:36:26

Below is generated by plot.py at 2017-11-21 06:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.83 Mbit/s

95th percentile per-packet one-way delay: 51.209 ms

Loss rate: 0.38%

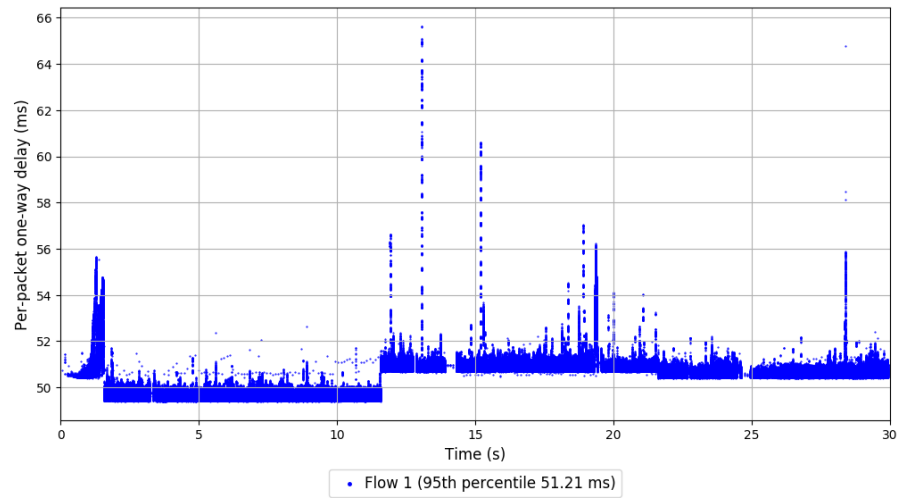
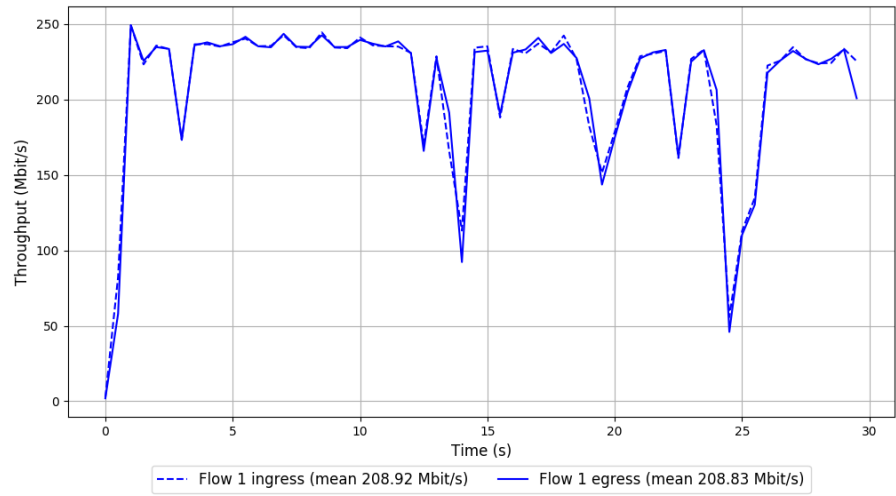
-- Flow 1:

Average throughput: 208.83 Mbit/s

95th percentile per-packet one-way delay: 51.209 ms

Loss rate: 0.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 03:46:29

End at: 2017-11-21 03:46:59

Below is generated by plot.py at 2017-11-21 06:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.01 Mbit/s

95th percentile per-packet one-way delay: 51.681 ms

Loss rate: 0.39%

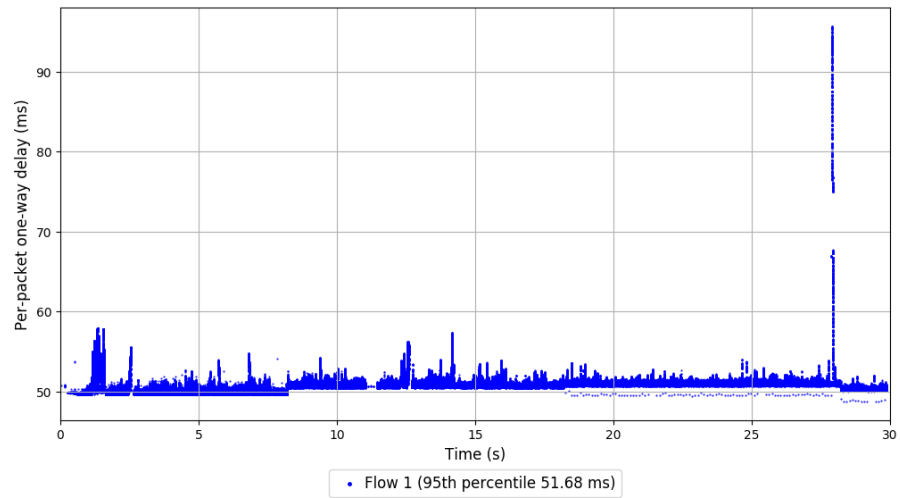
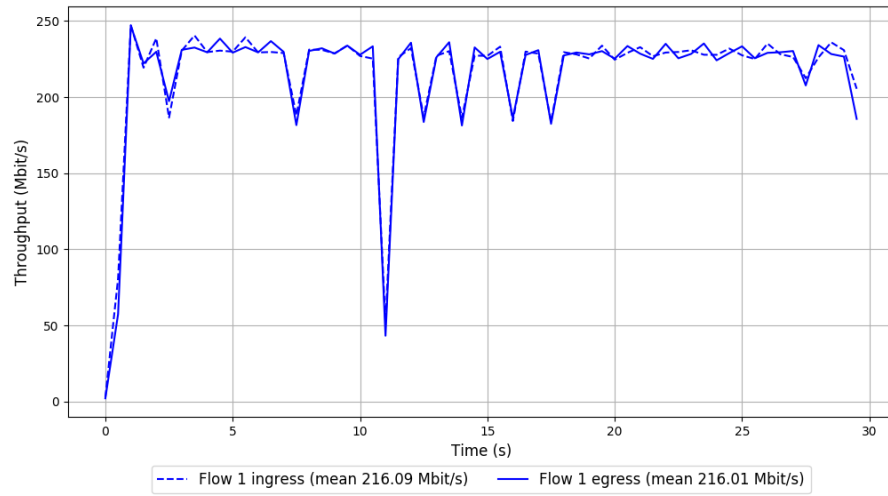
-- Flow 1:

Average throughput: 216.01 Mbit/s

95th percentile per-packet one-way delay: 51.681 ms

Loss rate: 0.39%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 03:56:54

End at: 2017-11-21 03:57:24

Below is generated by plot.py at 2017-11-21 06:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.81 Mbit/s

95th percentile per-packet one-way delay: 52.927 ms

Loss rate: 0.26%

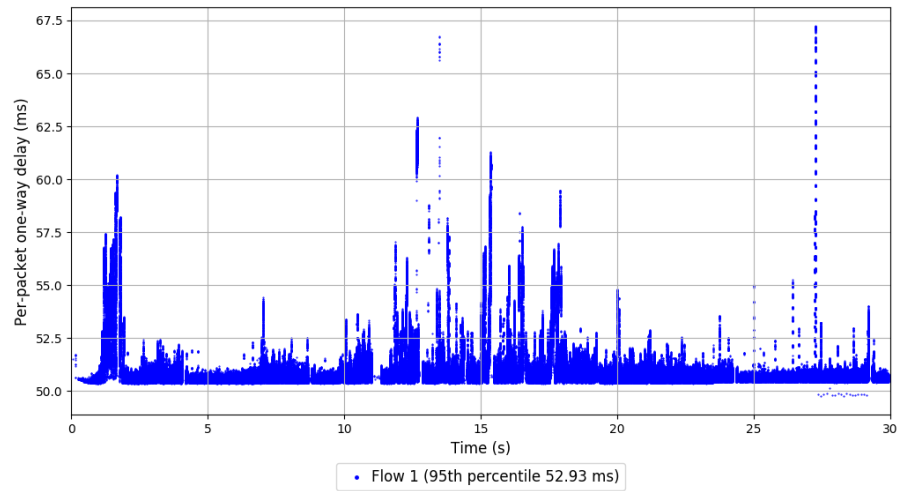
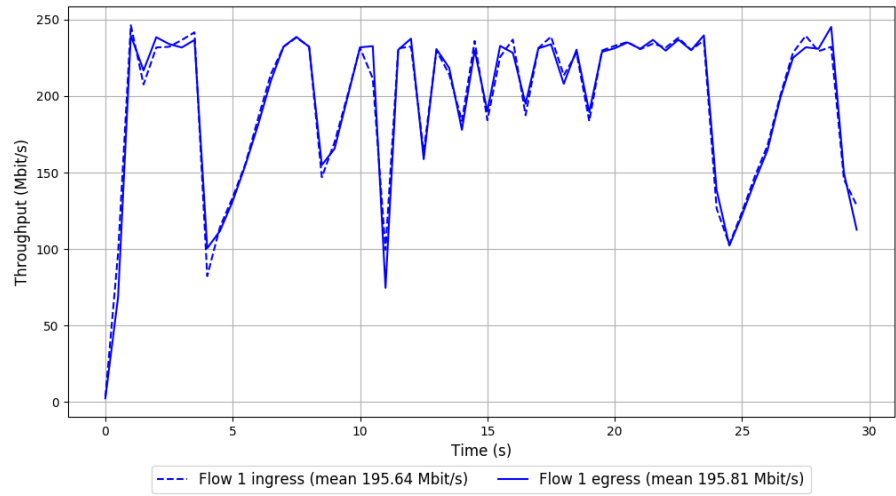
-- Flow 1:

Average throughput: 195.81 Mbit/s

95th percentile per-packet one-way delay: 52.927 ms

Loss rate: 0.26%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 04:07:31

End at: 2017-11-21 04:08:01

Below is generated by plot.py at 2017-11-21 06:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.02 Mbit/s

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

Loss rate: 0.20%

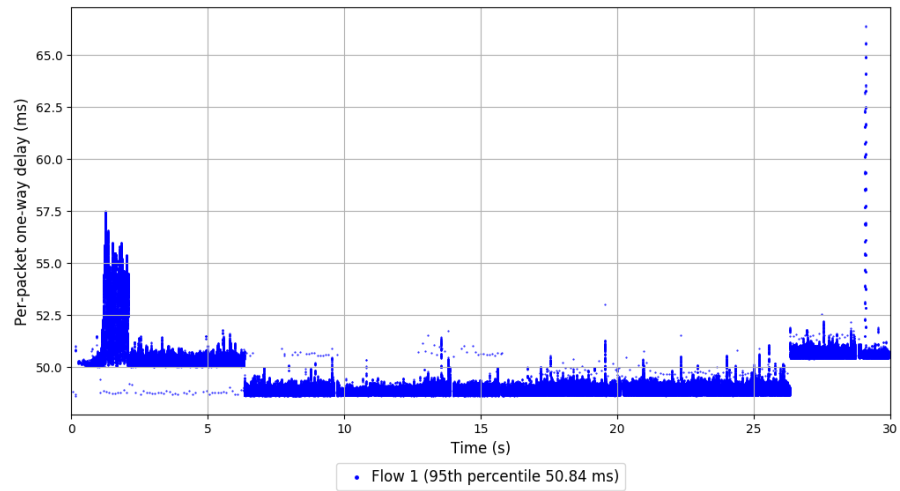
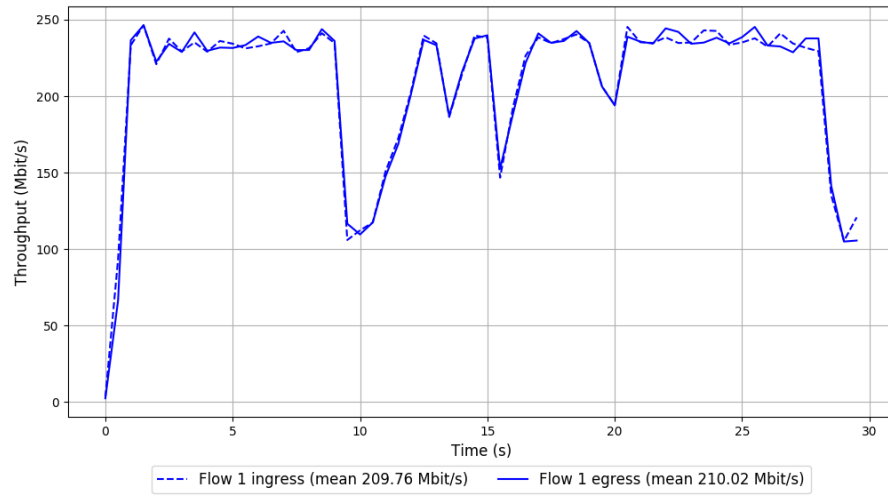
-- Flow 1:

Average throughput: 210.02 Mbit/s

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

Loss rate: 0.20%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 04:18:09

End at: 2017-11-21 04:18:39

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.67 Mbit/s

95th percentile per-packet one-way delay: 55.311 ms

Loss rate: 0.40%

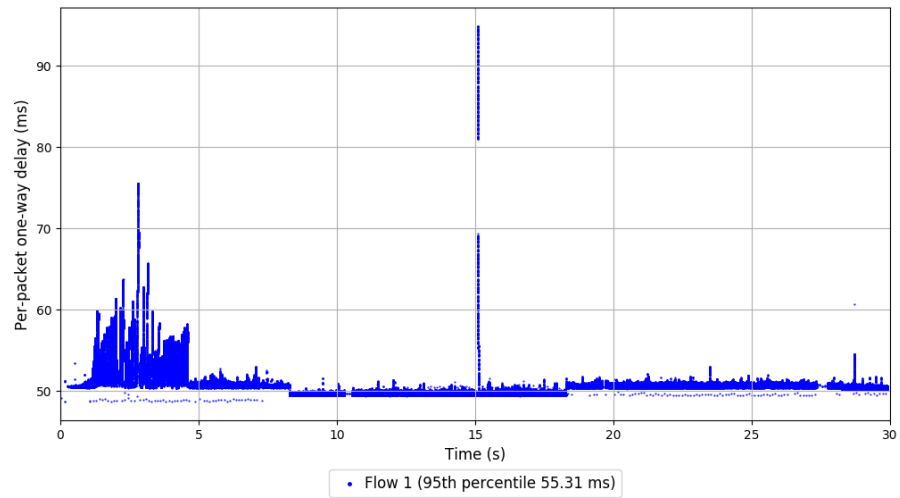
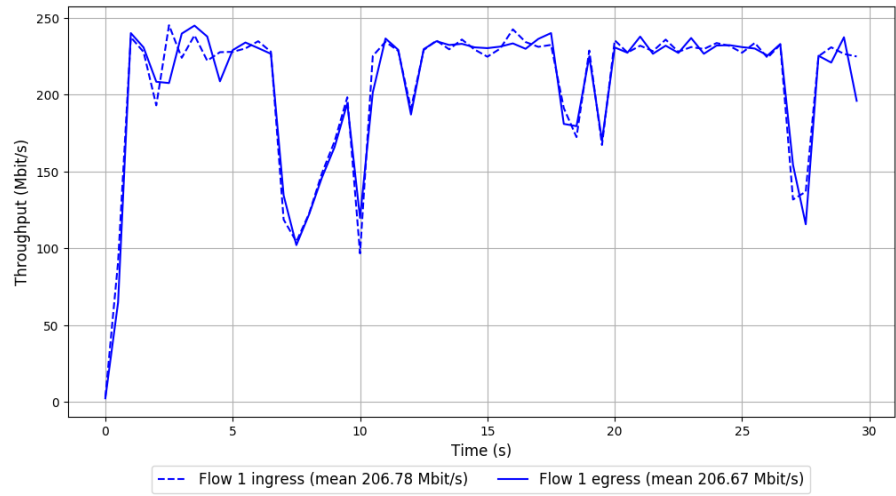
-- Flow 1:

Average throughput: 206.67 Mbit/s

95th percentile per-packet one-way delay: 55.311 ms

Loss rate: 0.40%

Run 10: Report of TCP BBR — Data Link

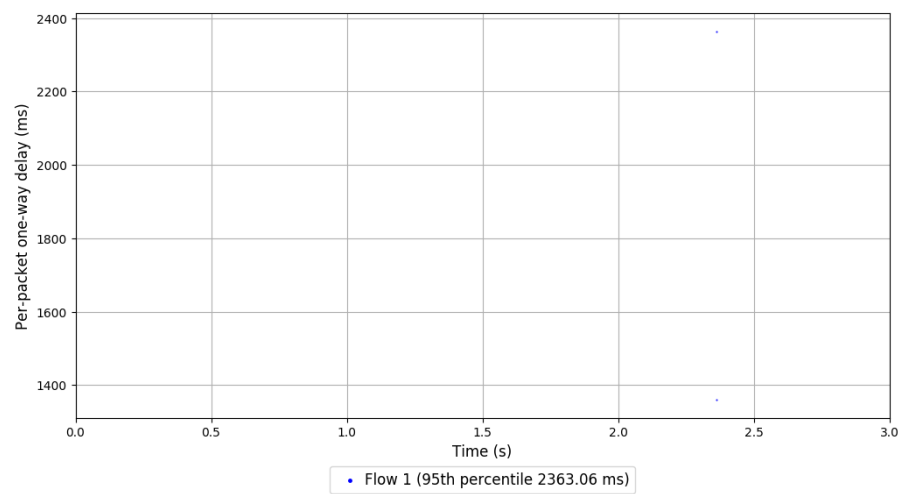
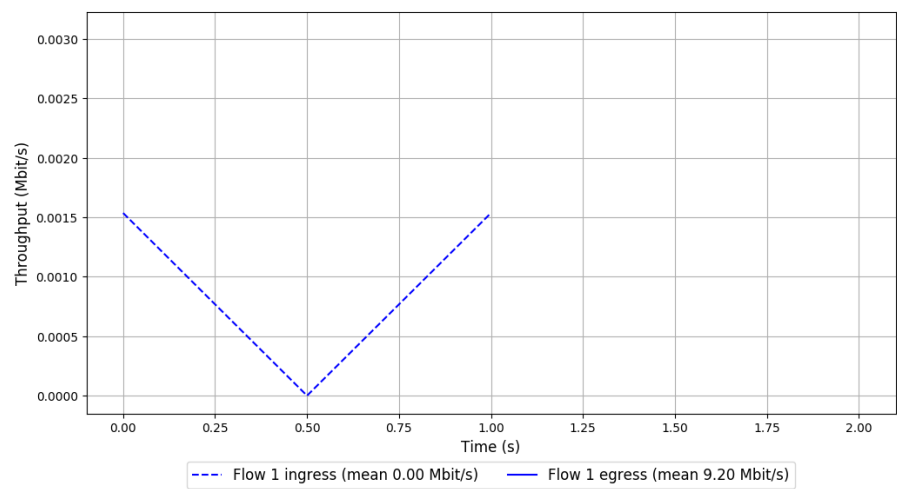


Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 02:48:38

End at: 2017-11-21 02:49:08

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 02:59:13

End at: 2017-11-21 02:59:43

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 54.615 ms

Loss rate: 0.32%

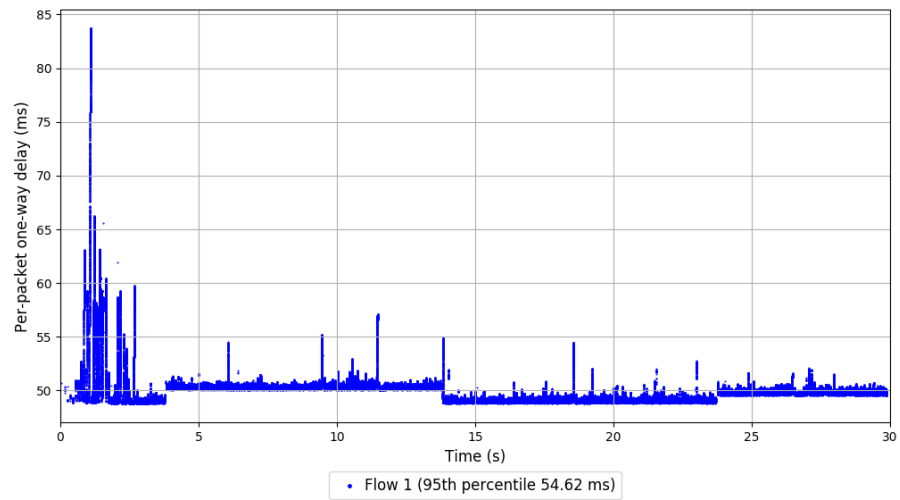
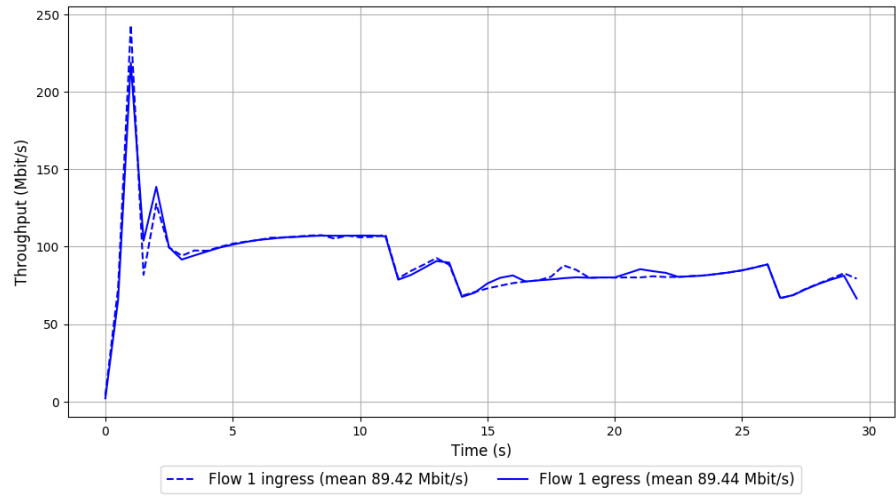
-- Flow 1:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 54.615 ms

Loss rate: 0.32%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 03:09:48

End at: 2017-11-21 03:10:18

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.09 Mbit/s

95th percentile per-packet one-way delay: 52.678 ms

Loss rate: 0.16%

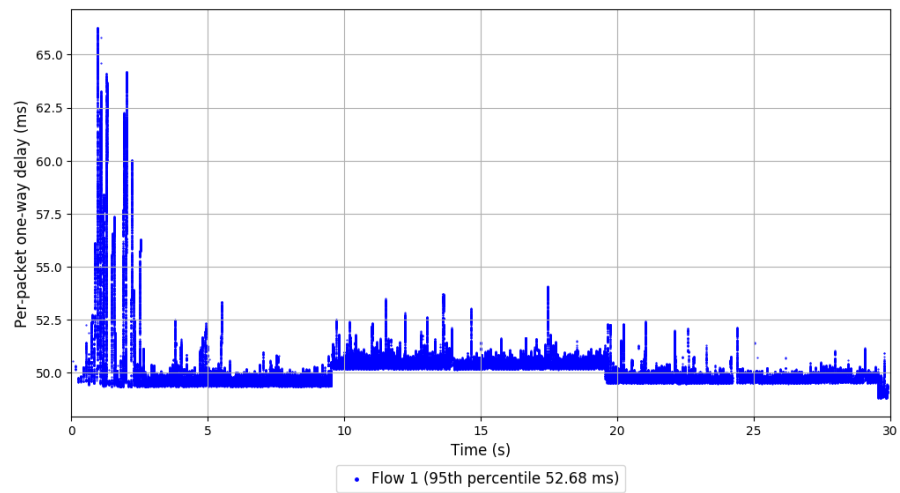
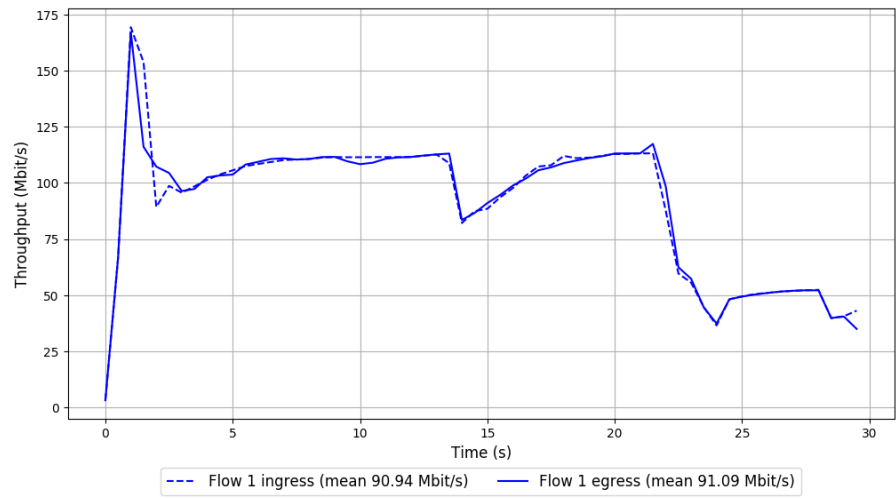
-- Flow 1:

Average throughput: 91.09 Mbit/s

95th percentile per-packet one-way delay: 52.678 ms

Loss rate: 0.16%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 03:20:16

End at: 2017-11-21 03:20:46

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.48 Mbit/s

95th percentile per-packet one-way delay: 55.688 ms

Loss rate: 0.35%

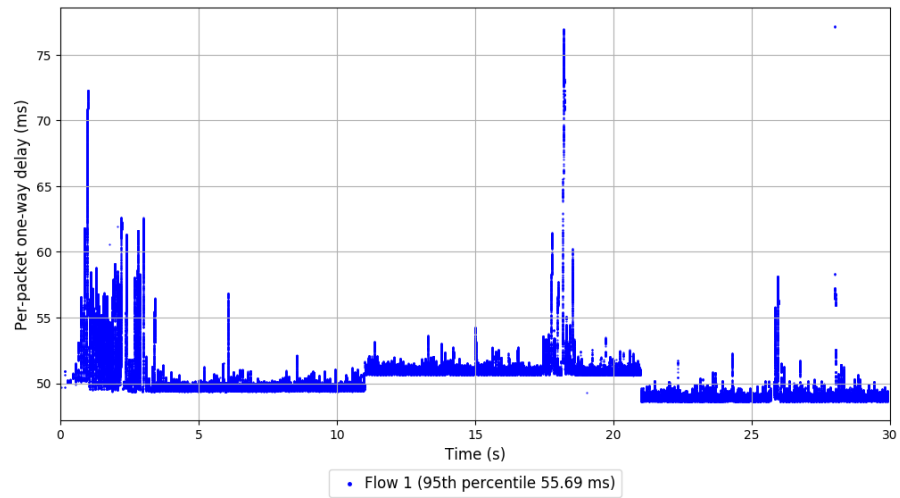
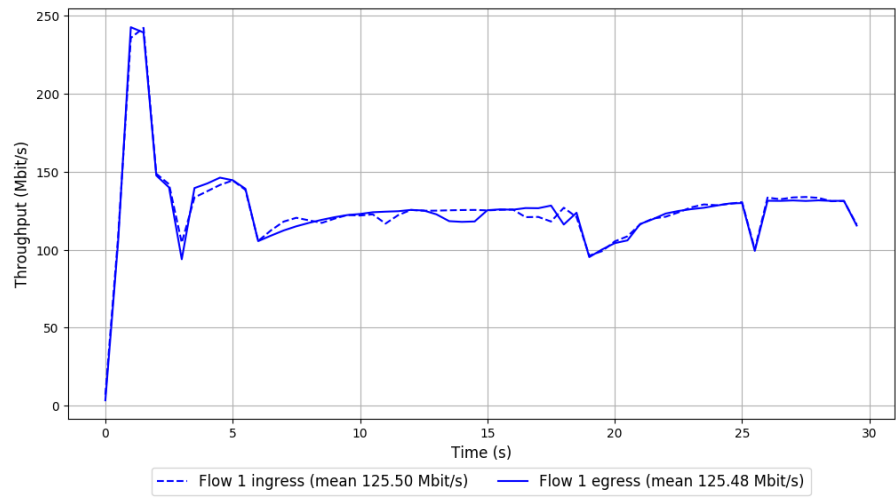
-- Flow 1:

Average throughput: 125.48 Mbit/s

95th percentile per-packet one-way delay: 55.688 ms

Loss rate: 0.35%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 03:30:47

End at: 2017-11-21 03:31:17

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 54.375 ms

Loss rate: 0.32%

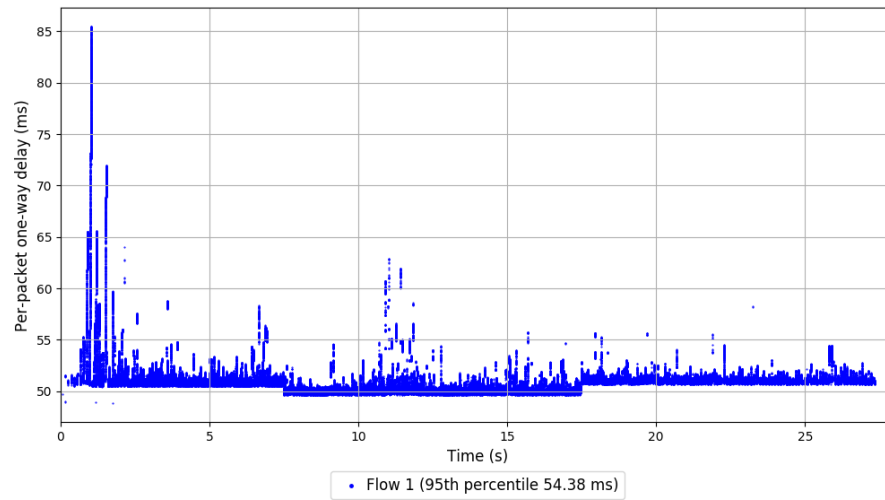
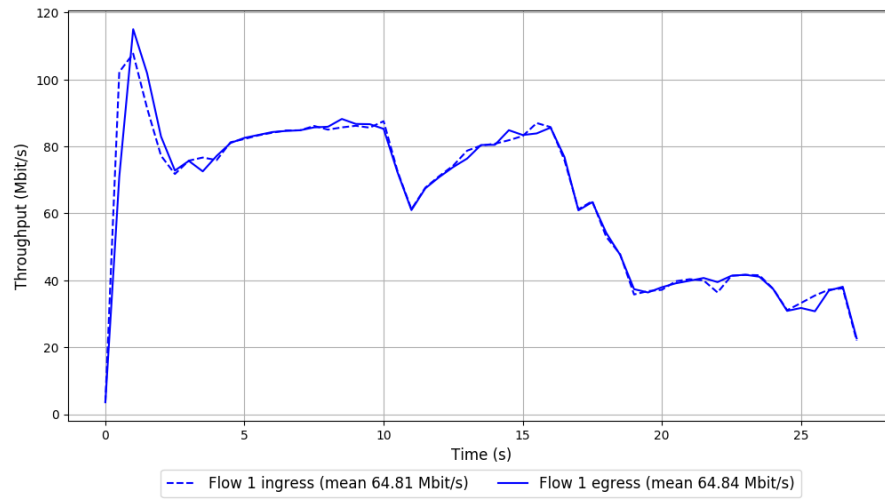
-- Flow 1:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 54.375 ms

Loss rate: 0.32%

Run 5: Report of TCP Cubic — Data Link

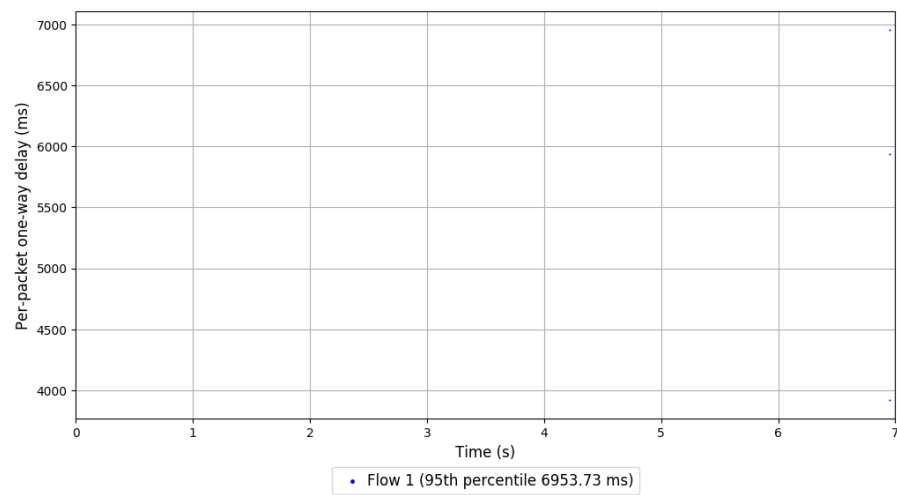
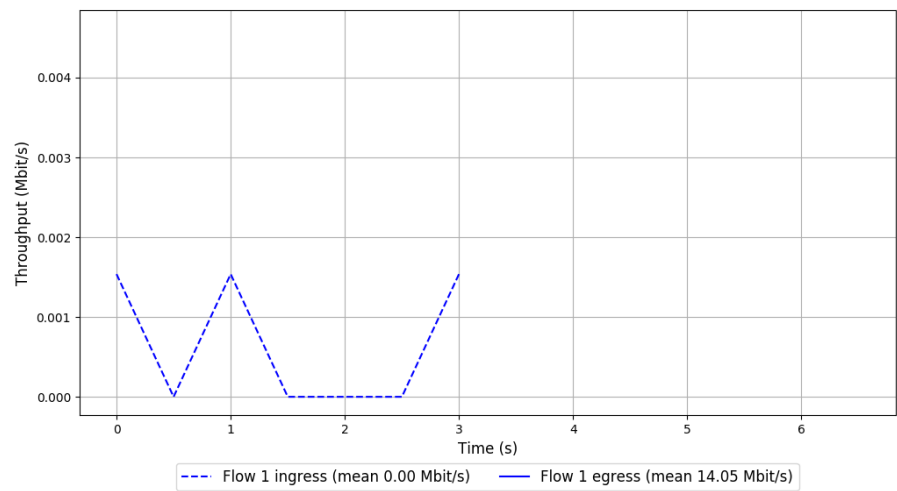


Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 03:41:19

End at: 2017-11-21 03:41:49

Run 6: Report of TCP Cubic — Data Link

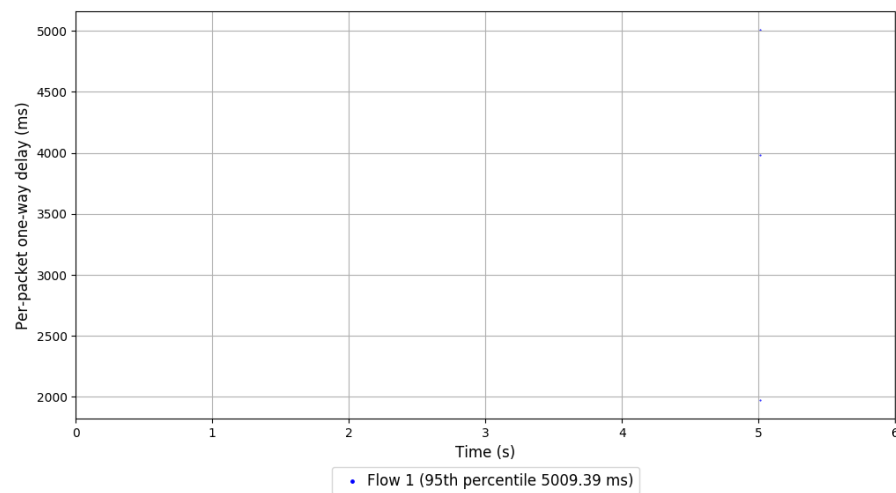
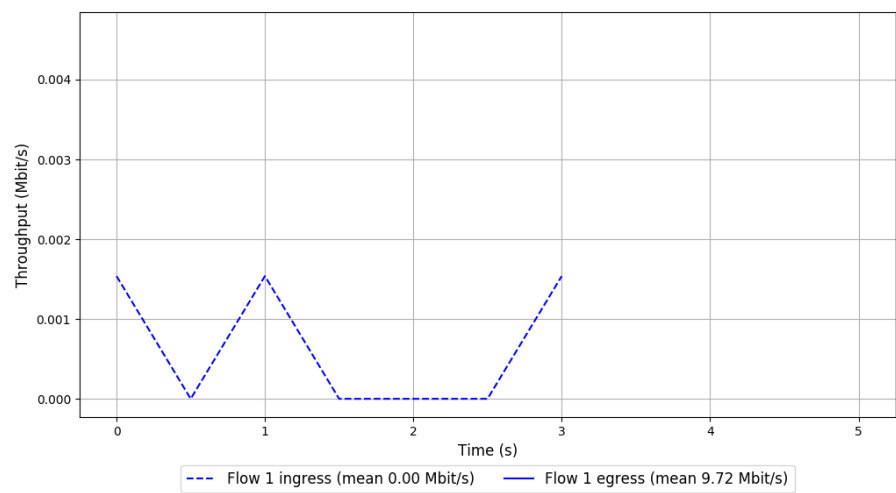


Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 03:51:50

End at: 2017-11-21 03:52:20

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 04:02:19

End at: 2017-11-21 04:02:49

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.64 Mbit/s

95th percentile per-packet one-way delay: 54.055 ms

Loss rate: 0.21%

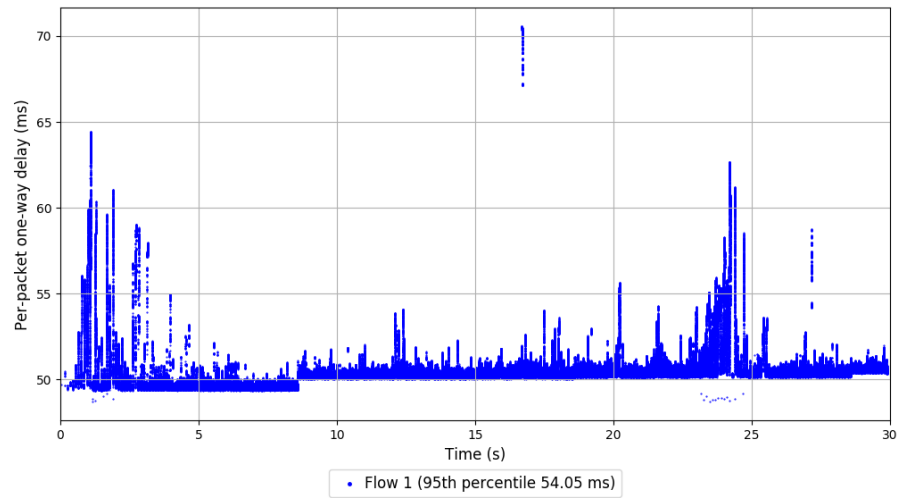
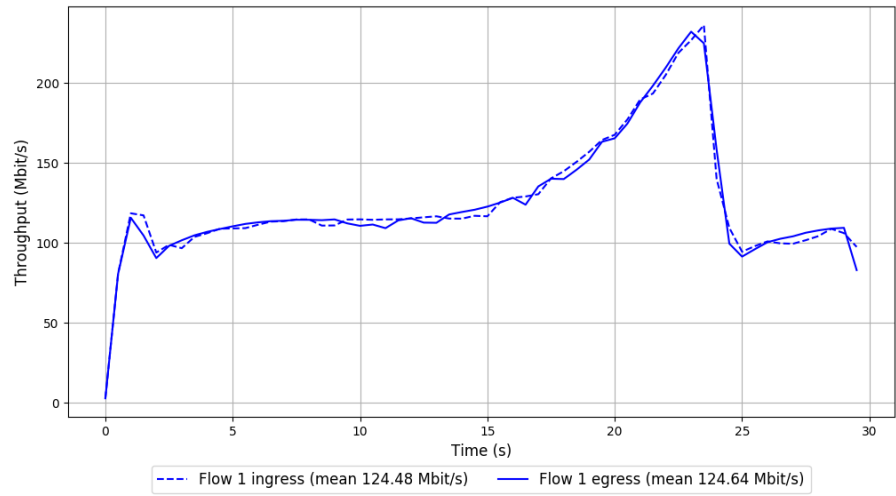
-- Flow 1:

Average throughput: 124.64 Mbit/s

95th percentile per-packet one-way delay: 54.055 ms

Loss rate: 0.21%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 04:12:54

End at: 2017-11-21 04:13:24

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.51 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.60%

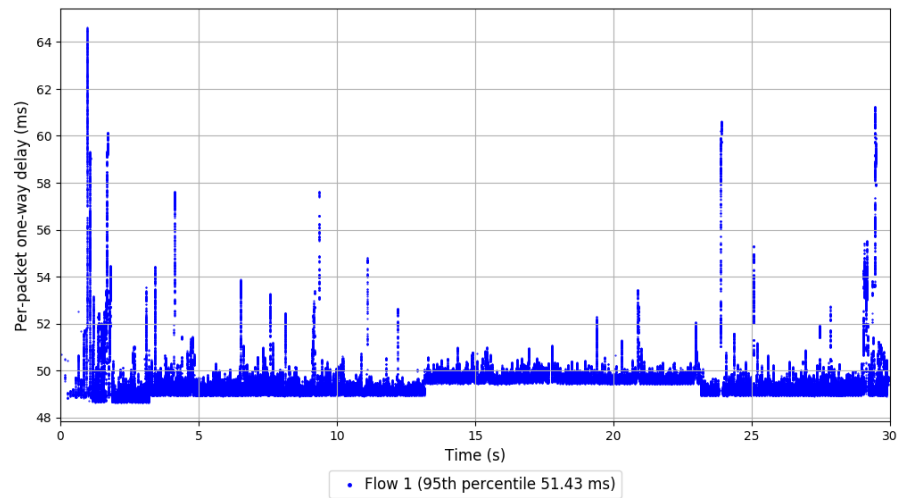
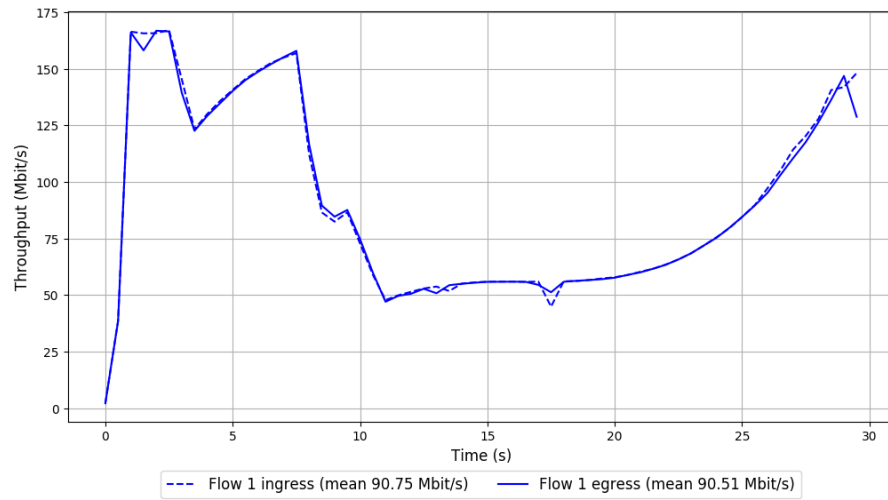
-- Flow 1:

Average throughput: 90.51 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.60%

Run 9: Report of TCP Cubic — Data Link

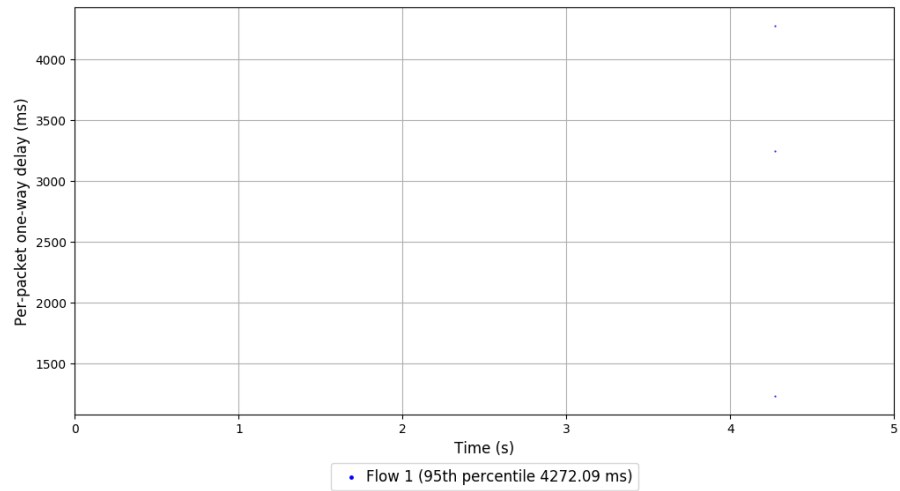
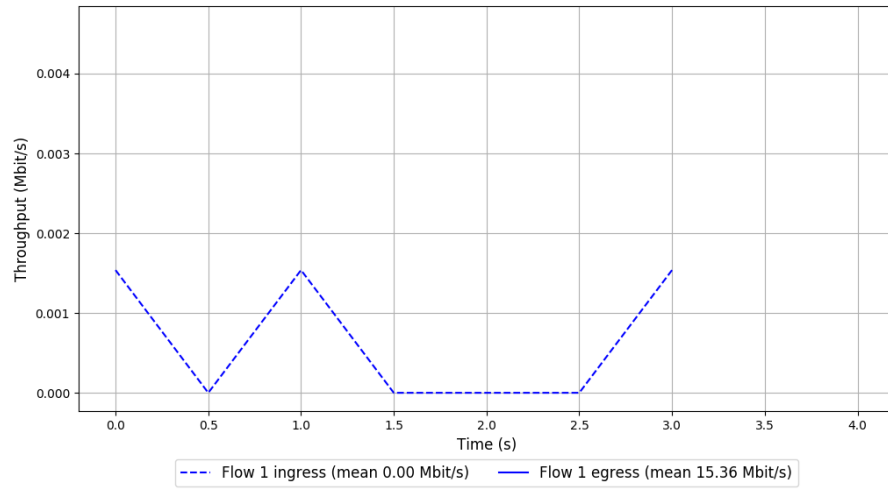


Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 04:23:31

End at: 2017-11-21 04:24:01

Run 10: Report of TCP Cubic — Data Link

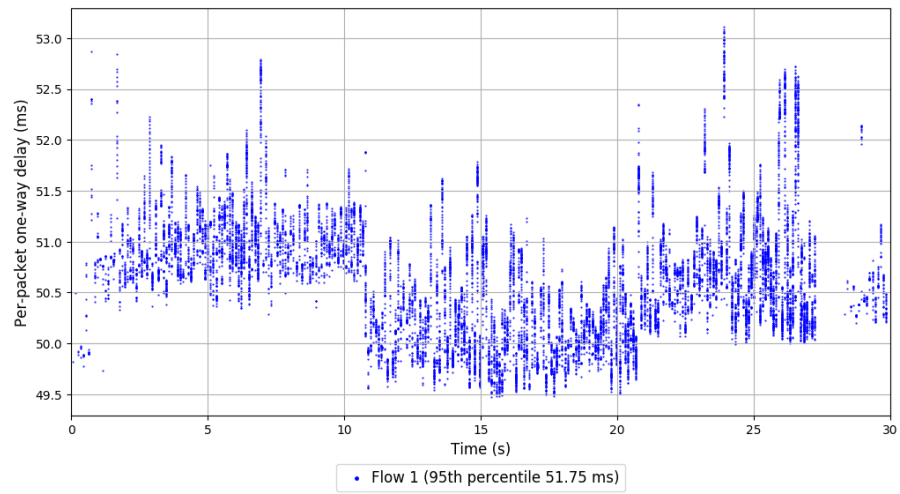
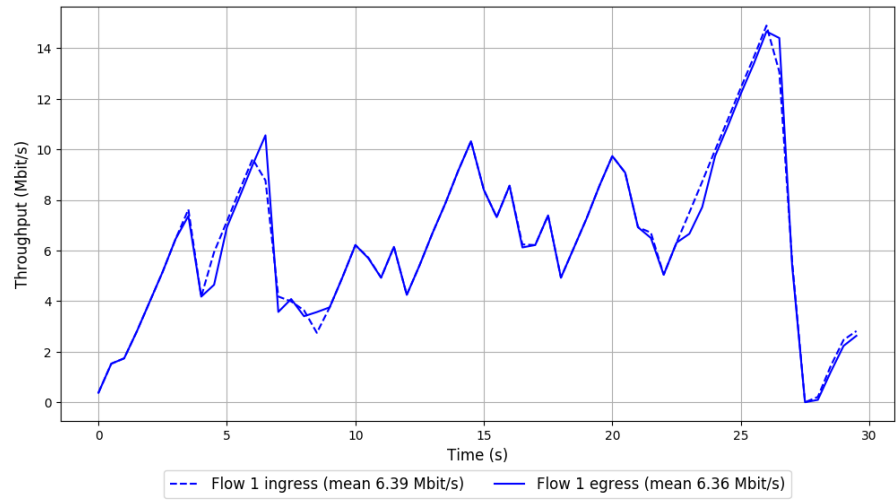


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 02:46:16
End at: 2017-11-21 02:46:46

# Below is generated by plot.py at 2017-11-21 06:19:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 51.746 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 51.746 ms
Loss rate: 0.90%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-21 02:56:48

End at: 2017-11-21 02:57:18

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 51.612 ms

Loss rate: 0.69%

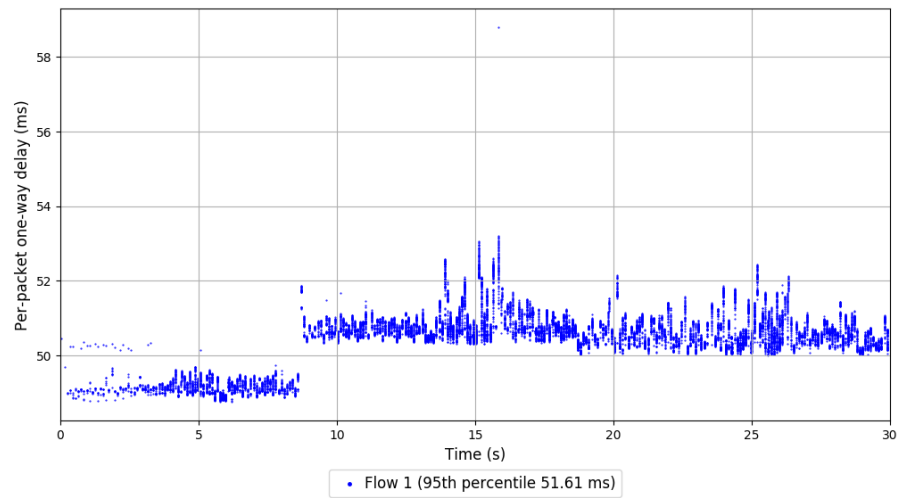
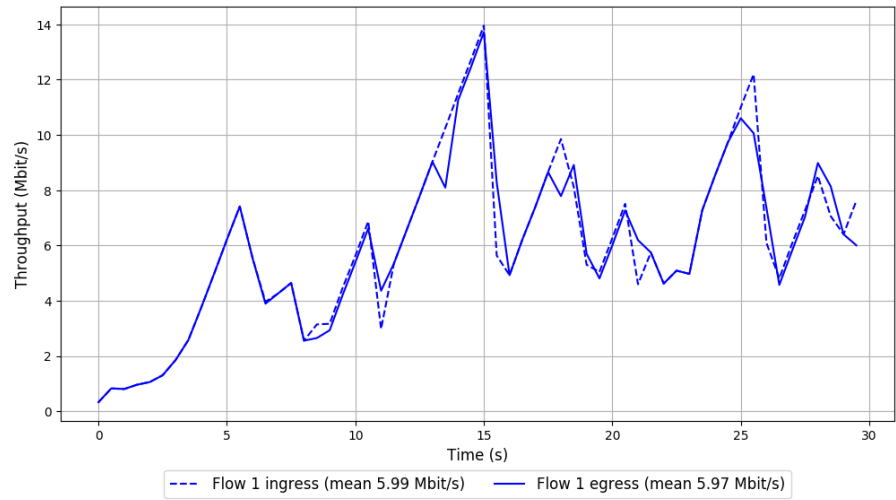
-- Flow 1:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 51.612 ms

Loss rate: 0.69%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 03:07:24

End at: 2017-11-21 03:07:54

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 51.265 ms

Loss rate: 0.40%

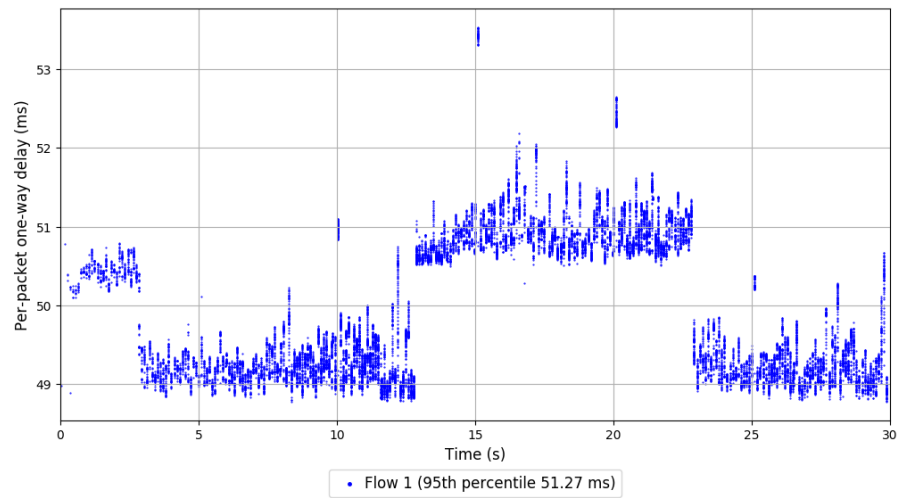
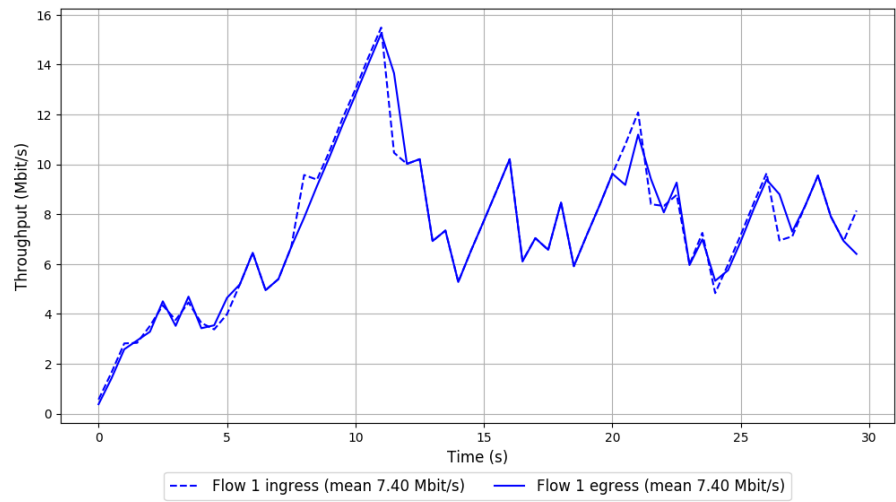
-- Flow 1:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 51.265 ms

Loss rate: 0.40%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 03:17:54

End at: 2017-11-21 03:18:24

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 51.153 ms

Loss rate: 0.55%

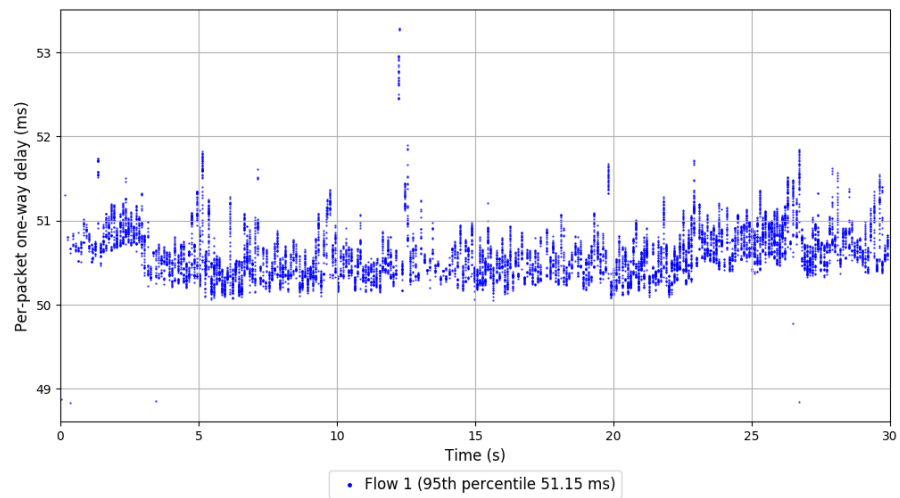
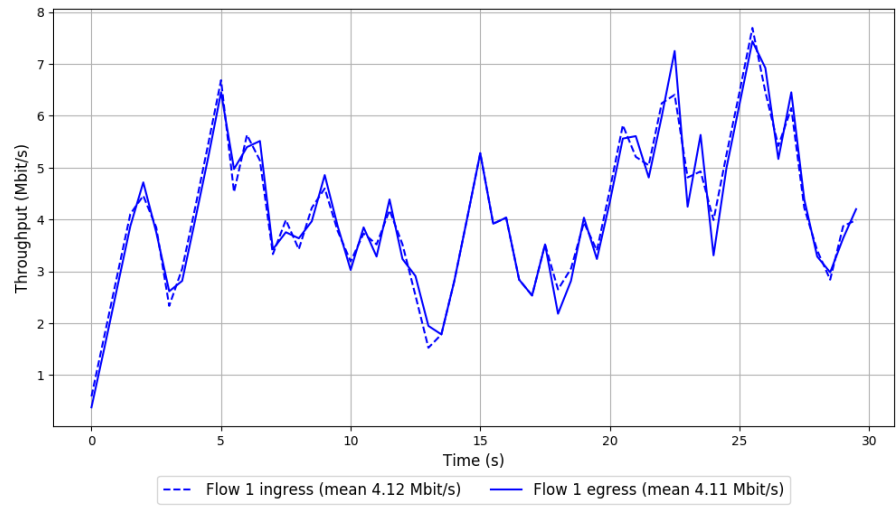
-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 51.153 ms

Loss rate: 0.55%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 03:28:25

End at: 2017-11-21 03:28:55

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 50.877 ms

Loss rate: 0.73%

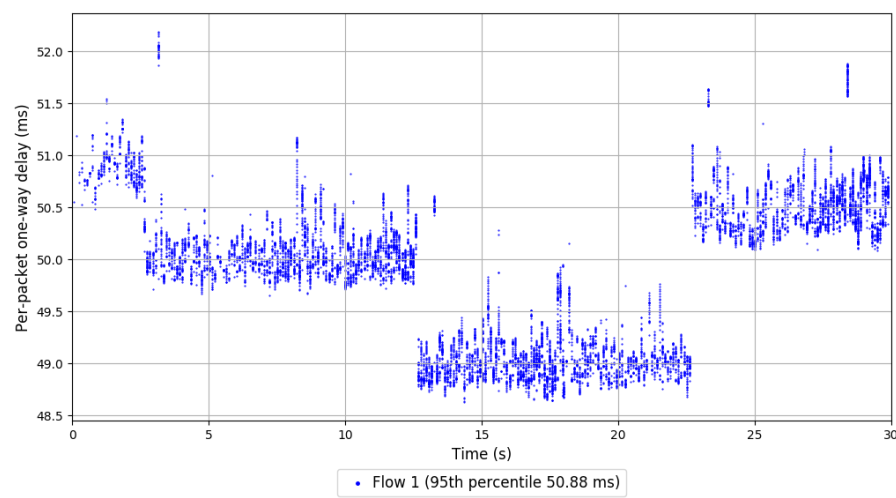
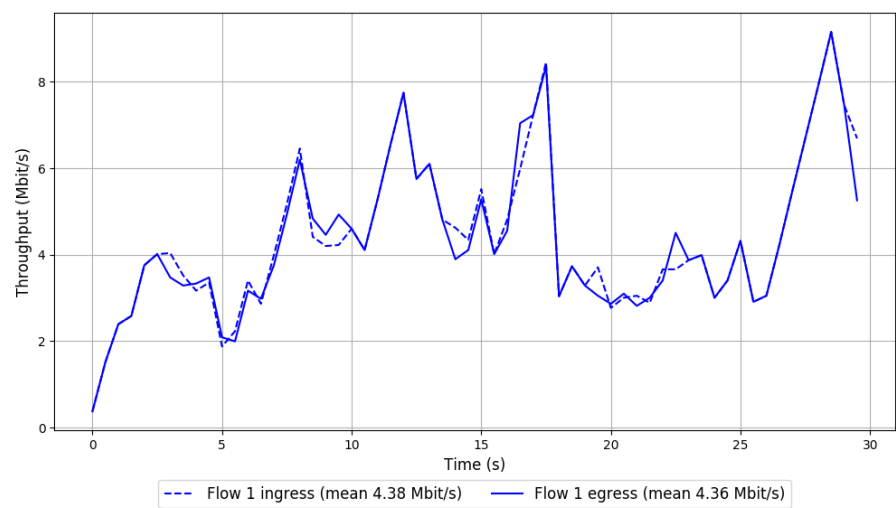
-- Flow 1:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 50.877 ms

Loss rate: 0.73%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 03:39:00

End at: 2017-11-21 03:39:30

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 51.550 ms

Loss rate: 0.58%

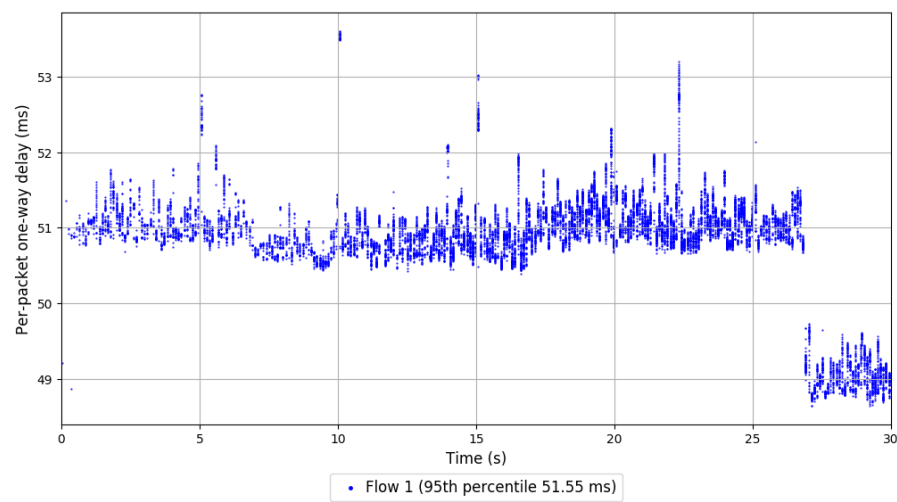
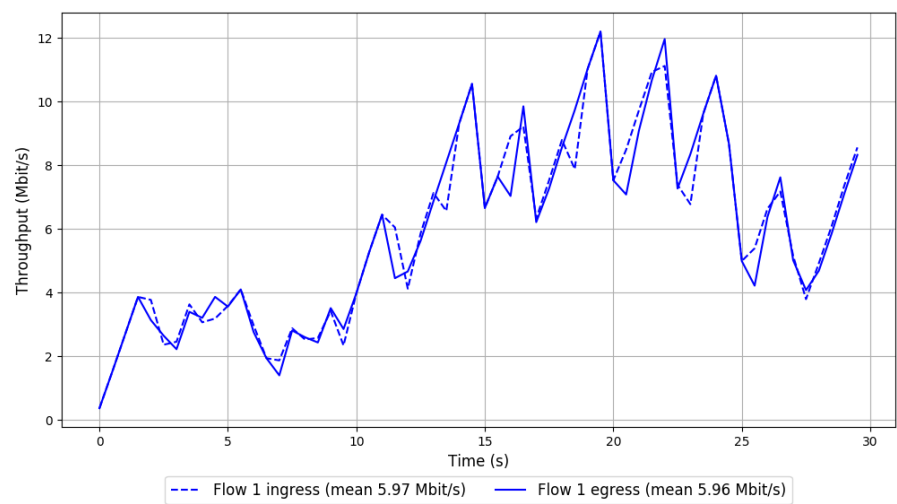
-- Flow 1:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 51.550 ms

Loss rate: 0.58%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 03:49:29

End at: 2017-11-21 03:49:59

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 51.473 ms

Loss rate: 0.36%

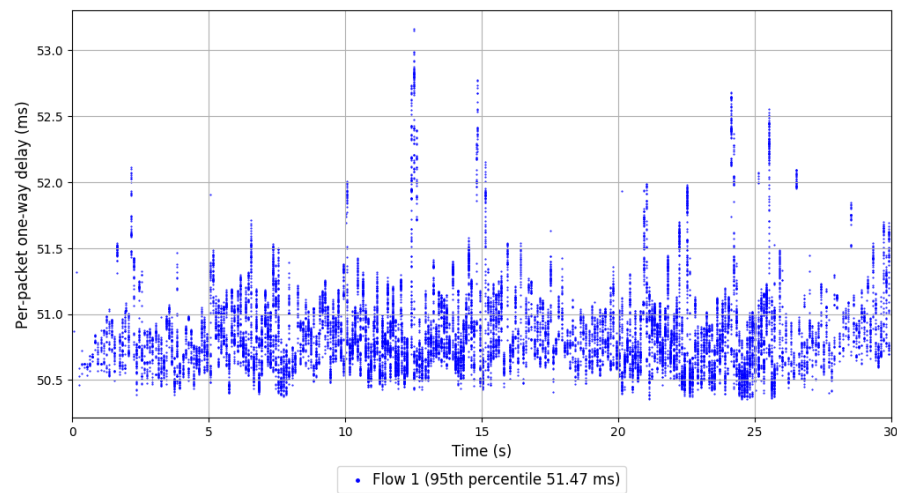
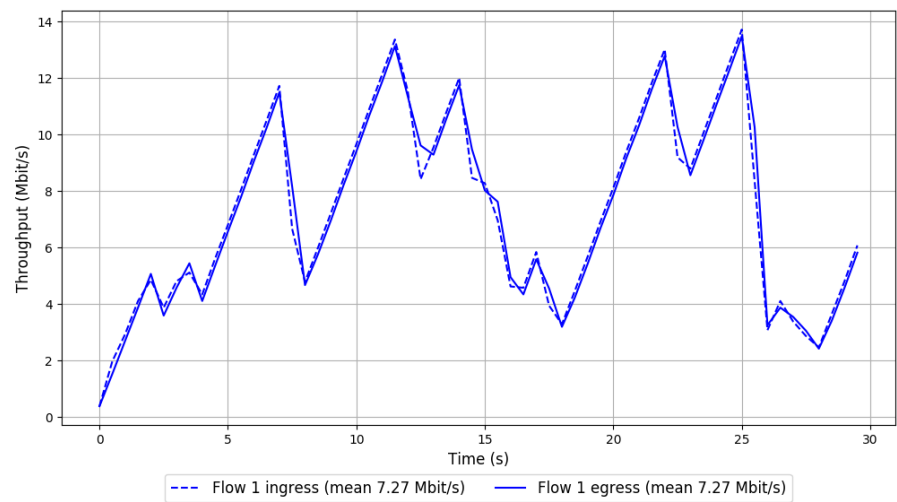
-- Flow 1:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 51.473 ms

Loss rate: 0.36%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 03:59:53

End at: 2017-11-21 04:00:23

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 51.430 ms

Loss rate: 0.86%

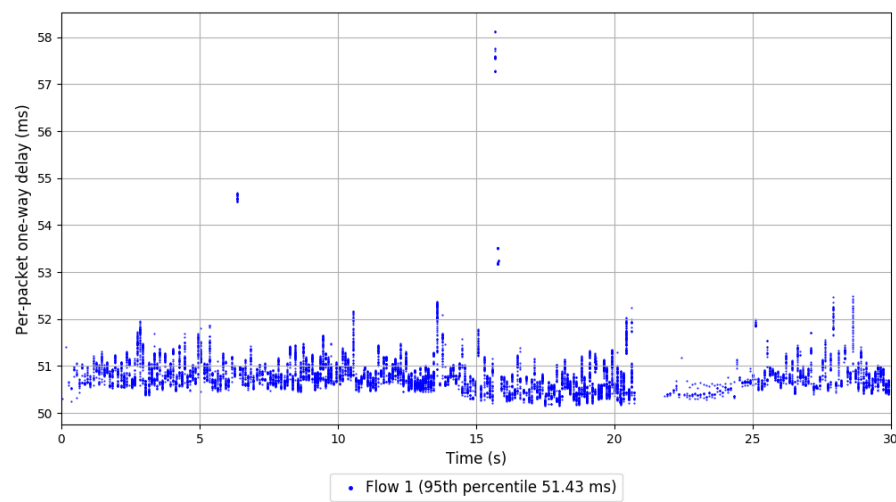
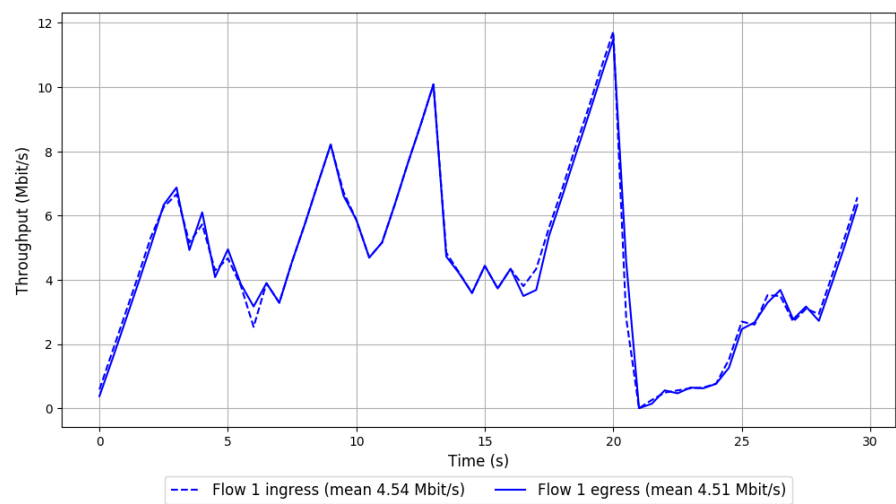
-- Flow 1:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 51.430 ms

Loss rate: 0.86%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 04:10:31

End at: 2017-11-21 04:11:01

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 51.053 ms

Loss rate: 0.53%

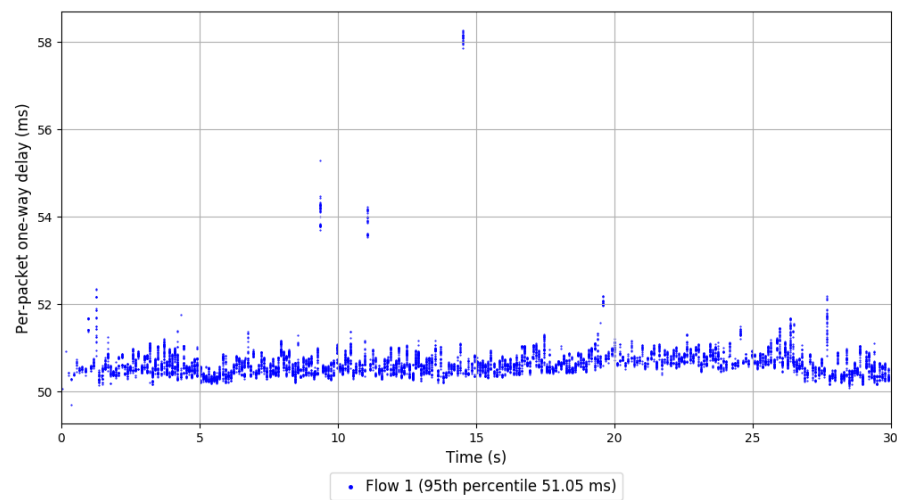
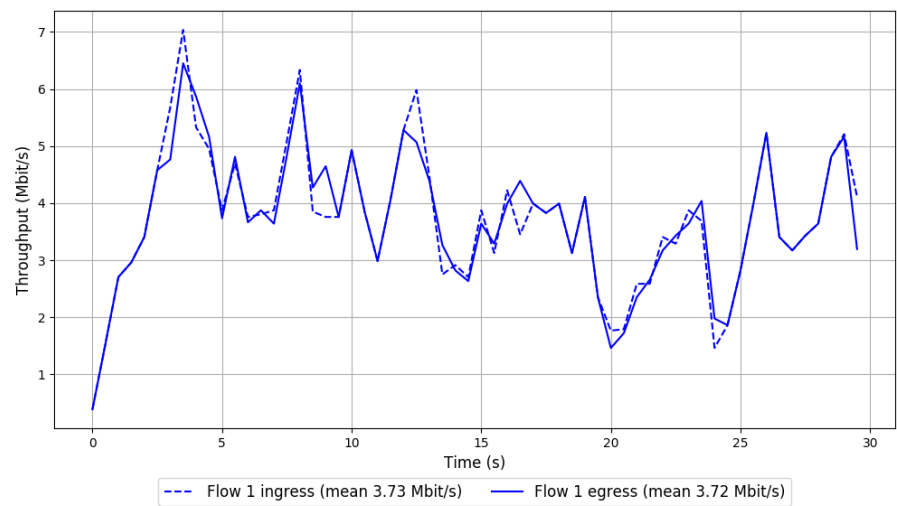
-- Flow 1:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 51.053 ms

Loss rate: 0.53%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 04:21:11

End at: 2017-11-21 04:21:41

Below is generated by plot.py at 2017-11-21 06:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 51.107 ms

Loss rate: 0.18%

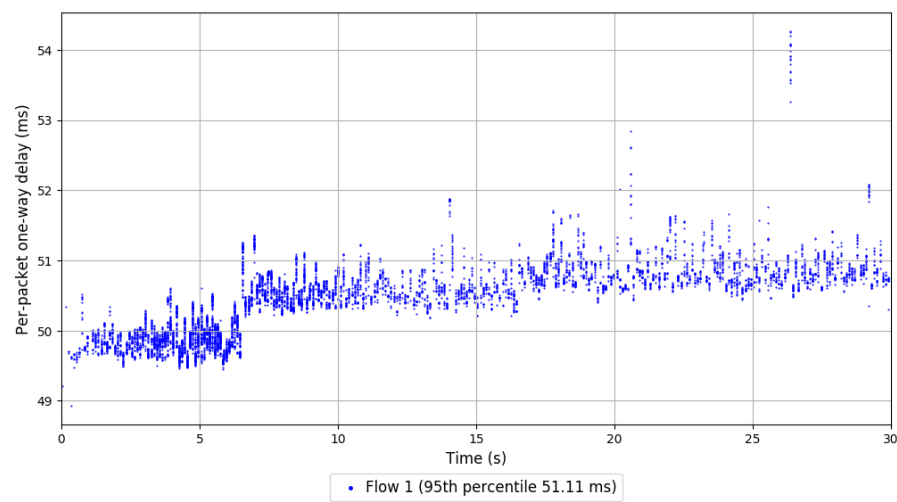
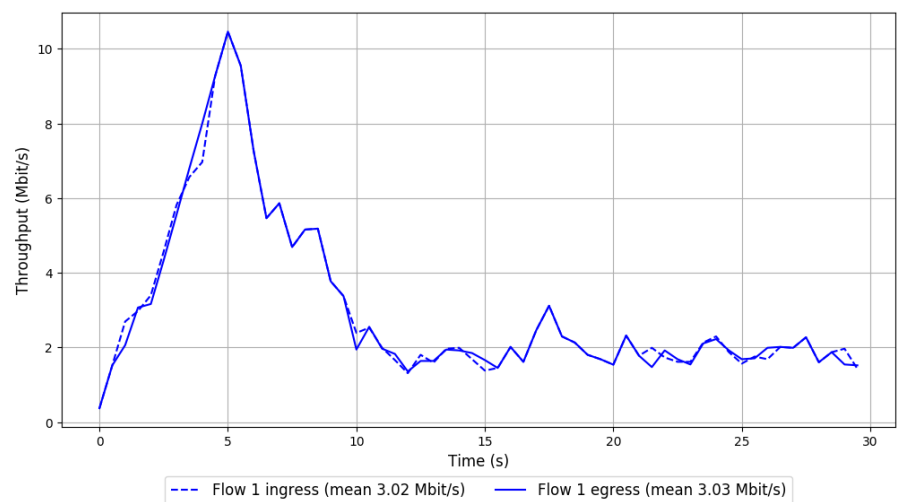
-- Flow 1:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 51.107 ms

Loss rate: 0.18%

Run 10: Report of LEDBAT — Data Link

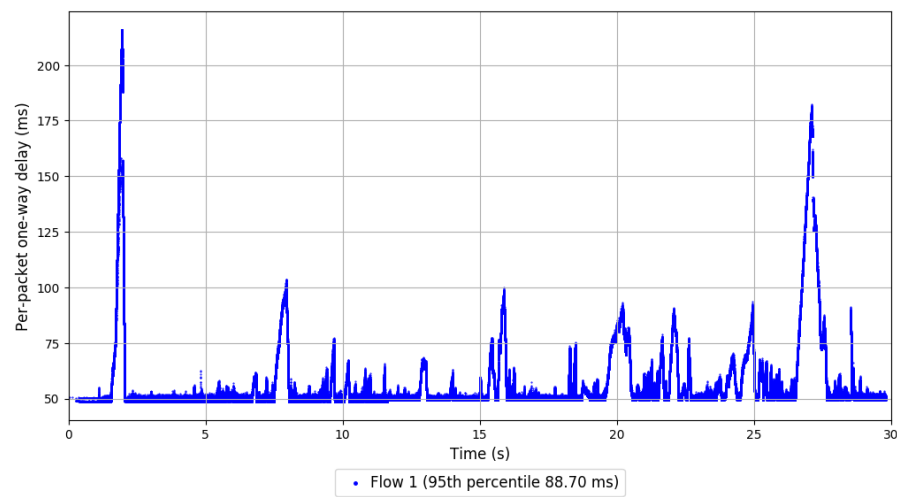
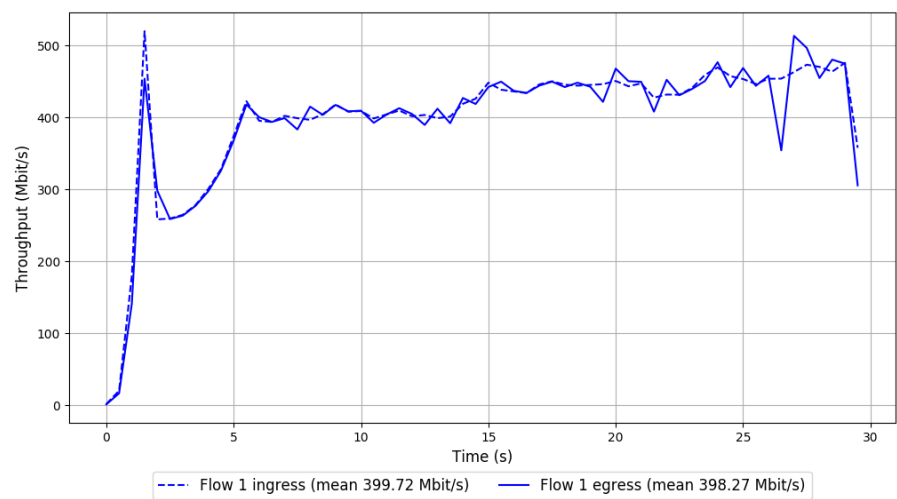


```
Run 1: Statistics of PCC

Start at: 2017-11-21 02:42:25
End at: 2017-11-21 02:42:55

# Below is generated by plot.py at 2017-11-21 06:24:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 398.27 Mbit/s
95th percentile per-packet one-way delay: 88.704 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 398.27 Mbit/s
95th percentile per-packet one-way delay: 88.704 ms
Loss rate: 0.70%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-21 02:52:44

End at: 2017-11-21 02:53:14

Below is generated by plot.py at 2017-11-21 06:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 658.55 Mbit/s

95th percentile per-packet one-way delay: 209.584 ms

Loss rate: 3.43%

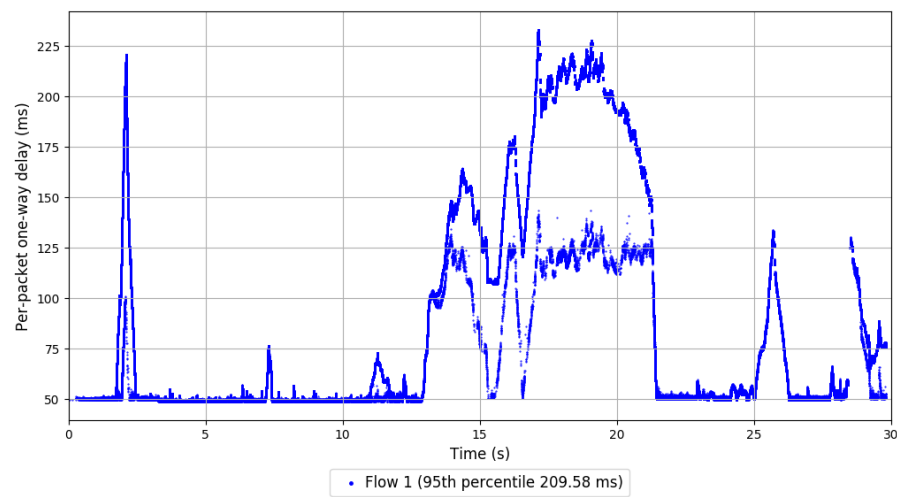
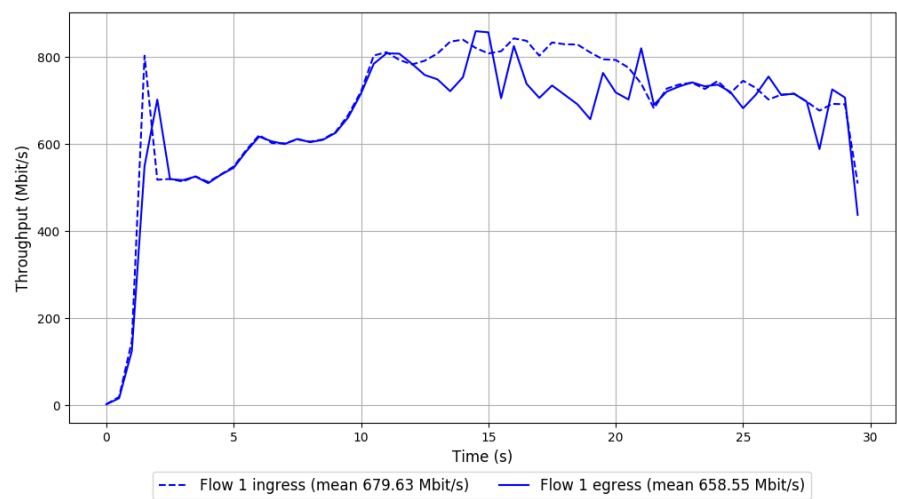
-- Flow 1:

Average throughput: 658.55 Mbit/s

95th percentile per-packet one-way delay: 209.584 ms

Loss rate: 3.43%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-21 03:03:24

End at: 2017-11-21 03:03:54

Below is generated by plot.py at 2017-11-21 06:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.78 Mbit/s

95th percentile per-packet one-way delay: 101.649 ms

Loss rate: 0.77%

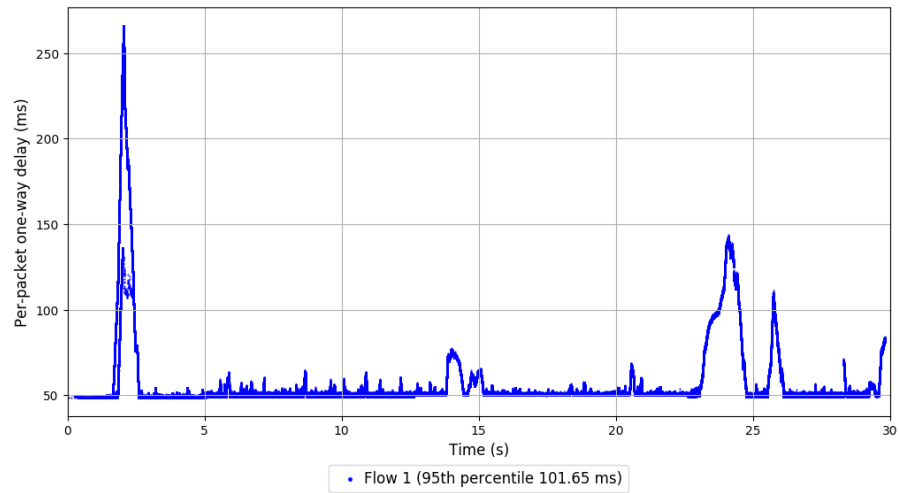
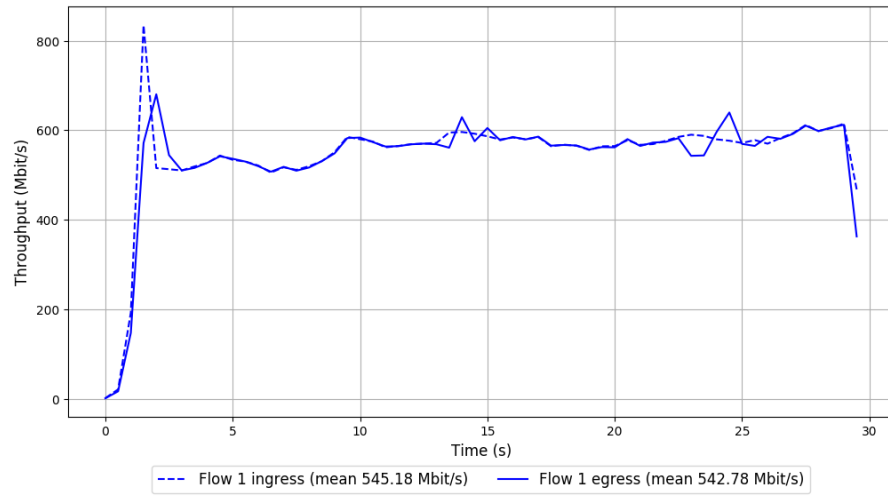
-- Flow 1:

Average throughput: 542.78 Mbit/s

95th percentile per-packet one-way delay: 101.649 ms

Loss rate: 0.77%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 03:13:59

End at: 2017-11-21 03:14:29

Below is generated by plot.py at 2017-11-21 06:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.66 Mbit/s

95th percentile per-packet one-way delay: 100.930 ms

Loss rate: 0.99%

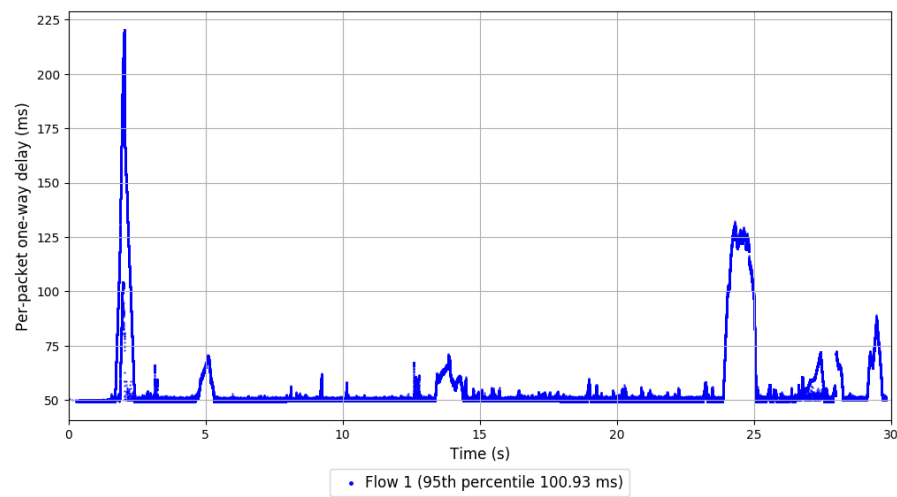
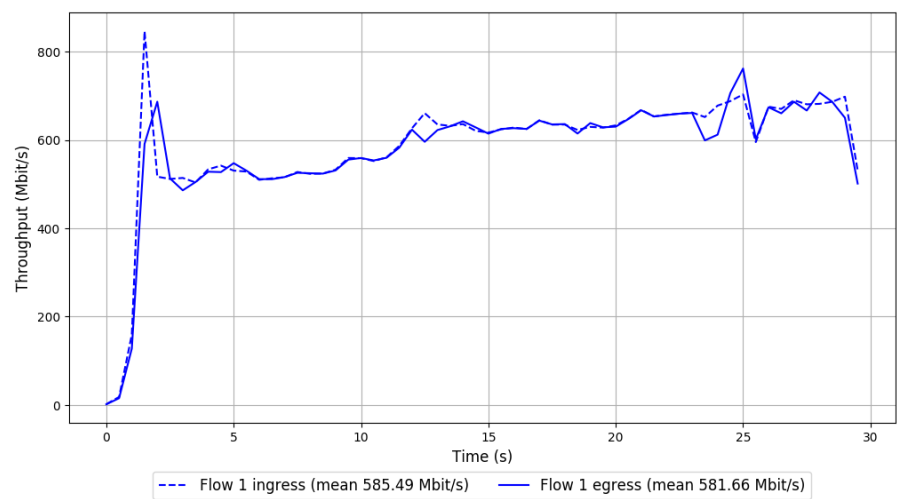
-- Flow 1:

Average throughput: 581.66 Mbit/s

95th percentile per-packet one-way delay: 100.930 ms

Loss rate: 0.99%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 03:24:28

End at: 2017-11-21 03:24:58

Below is generated by plot.py at 2017-11-21 06:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 606.73 Mbit/s

95th percentile per-packet one-way delay: 122.659 ms

Loss rate: 1.39%

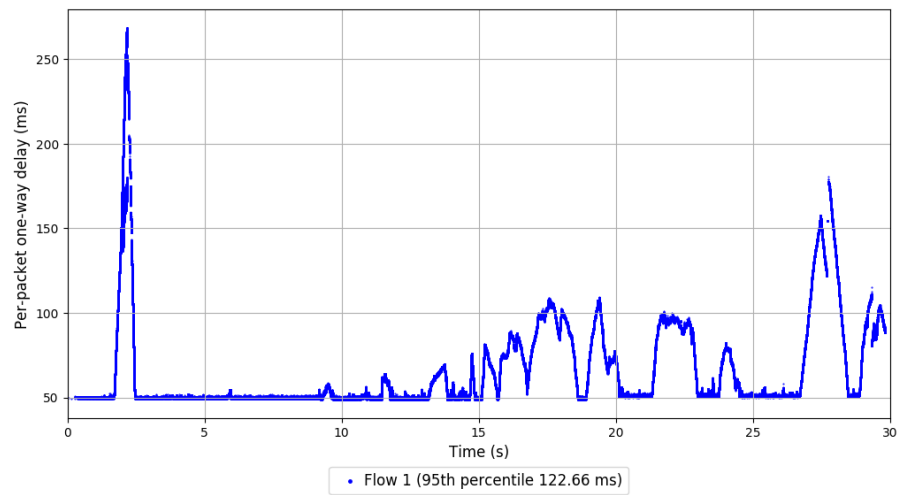
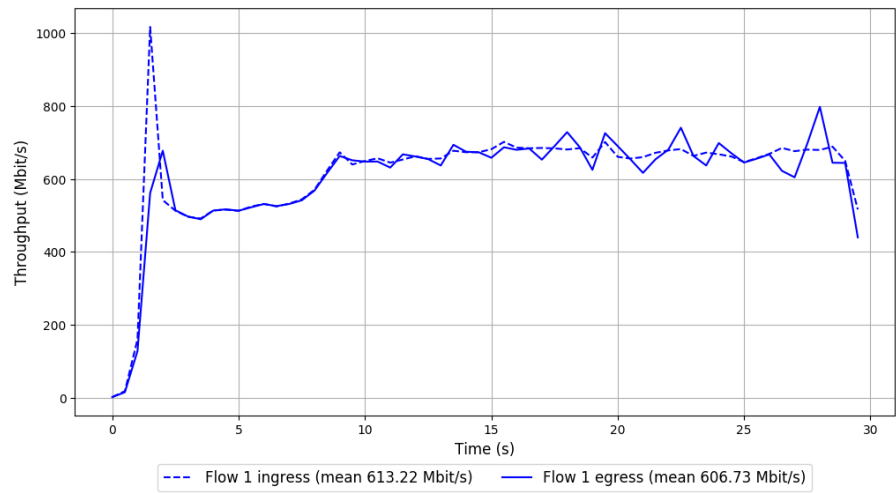
-- Flow 1:

Average throughput: 606.73 Mbit/s

95th percentile per-packet one-way delay: 122.659 ms

Loss rate: 1.39%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 03:34:57

End at: 2017-11-21 03:35:27

Below is generated by plot.py at 2017-11-21 06:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.48 Mbit/s

95th percentile per-packet one-way delay: 115.960 ms

Loss rate: 1.54%

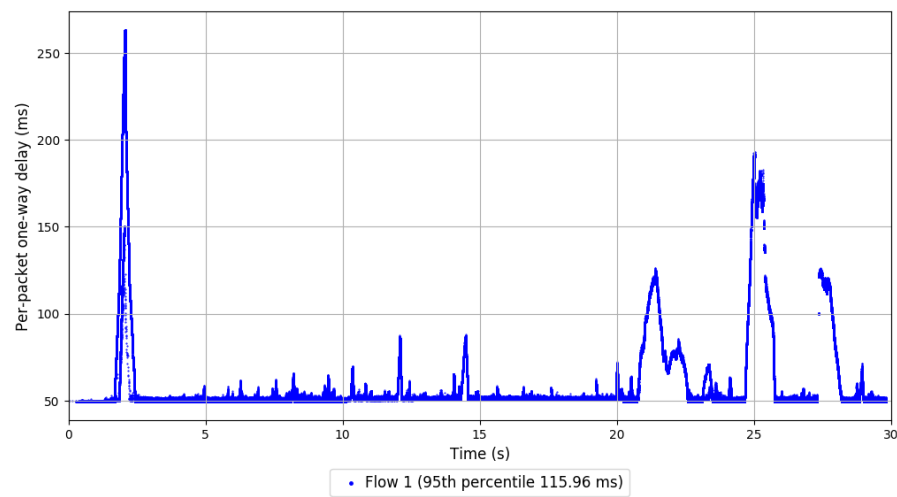
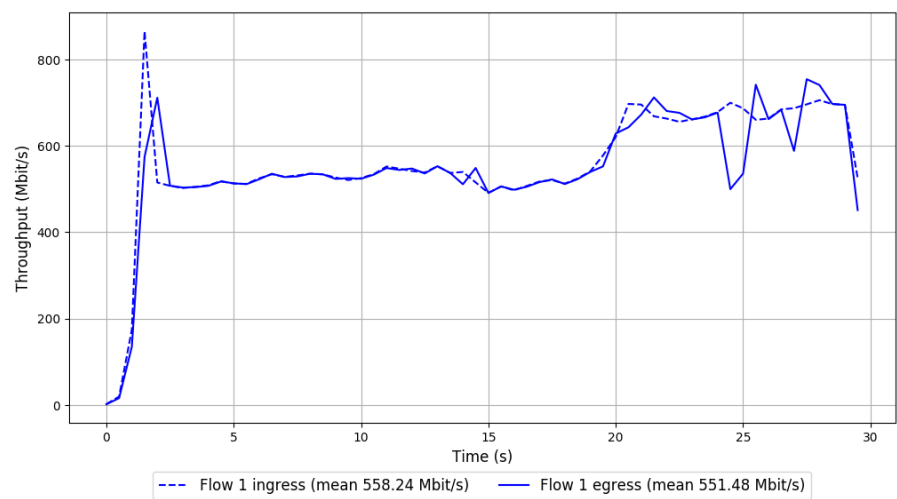
-- Flow 1:

Average throughput: 551.48 Mbit/s

95th percentile per-packet one-way delay: 115.960 ms

Loss rate: 1.54%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 03:45:25

End at: 2017-11-21 03:45:55

Below is generated by plot.py at 2017-11-21 06:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.82 Mbit/s

95th percentile per-packet one-way delay: 141.613 ms

Loss rate: 1.66%

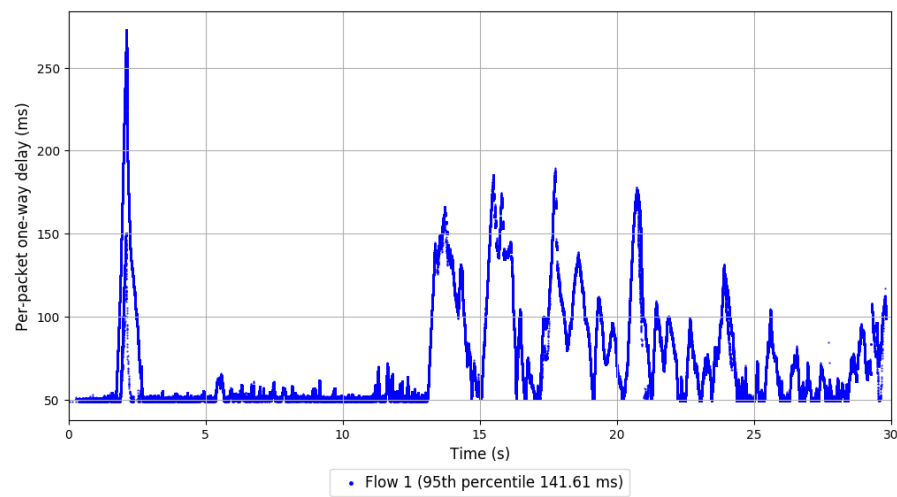
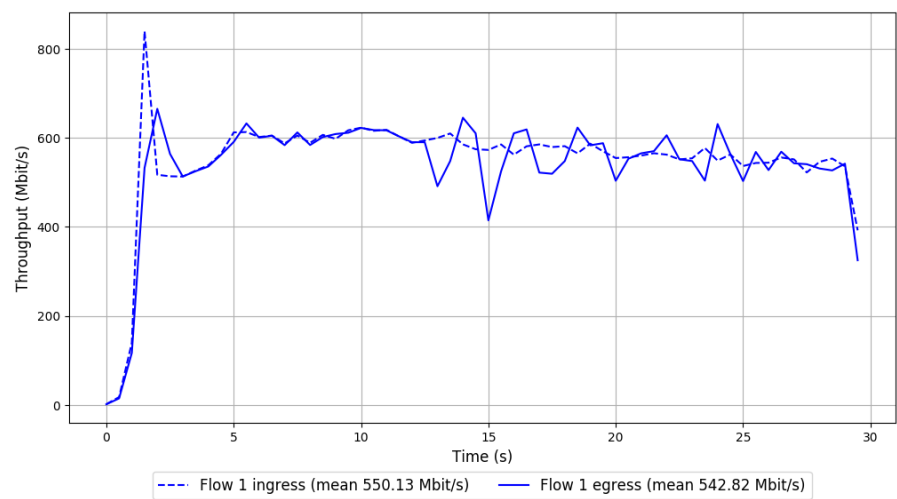
-- Flow 1:

Average throughput: 542.82 Mbit/s

95th percentile per-packet one-way delay: 141.613 ms

Loss rate: 1.66%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 03:55:55

End at: 2017-11-21 03:56:25

Below is generated by plot.py at 2017-11-21 06:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 572.85 Mbit/s

95th percentile per-packet one-way delay: 80.438 ms

Loss rate: 0.96%

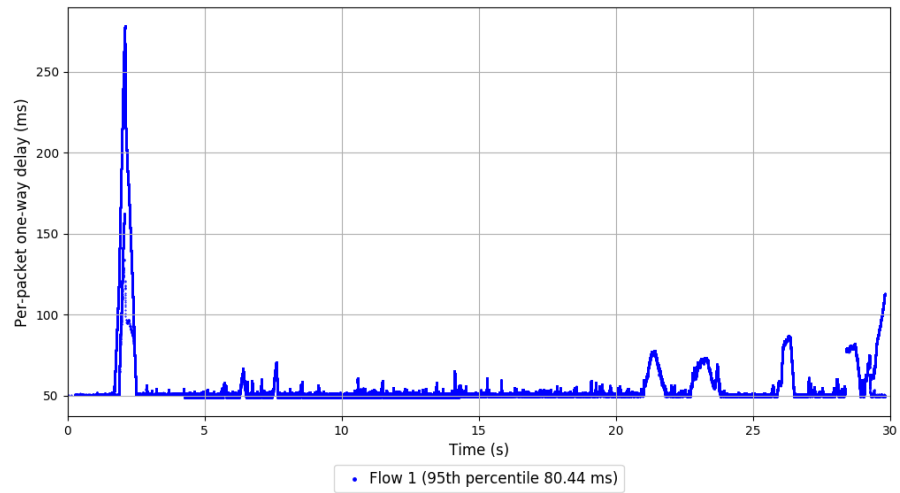
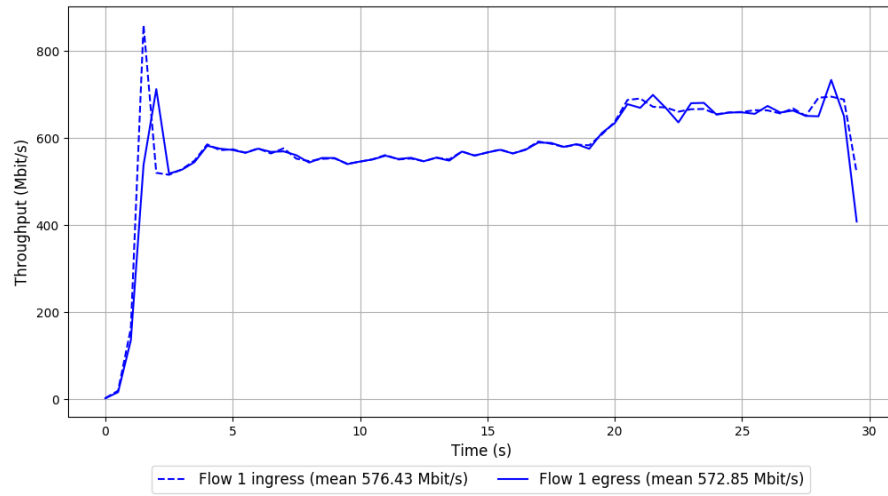
-- Flow 1:

Average throughput: 572.85 Mbit/s

95th percentile per-packet one-way delay: 80.438 ms

Loss rate: 0.96%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-21 04:06:31

End at: 2017-11-21 04:07:01

Below is generated by plot.py at 2017-11-21 06:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 596.39 Mbit/s

95th percentile per-packet one-way delay: 148.361 ms

Loss rate: 1.37%

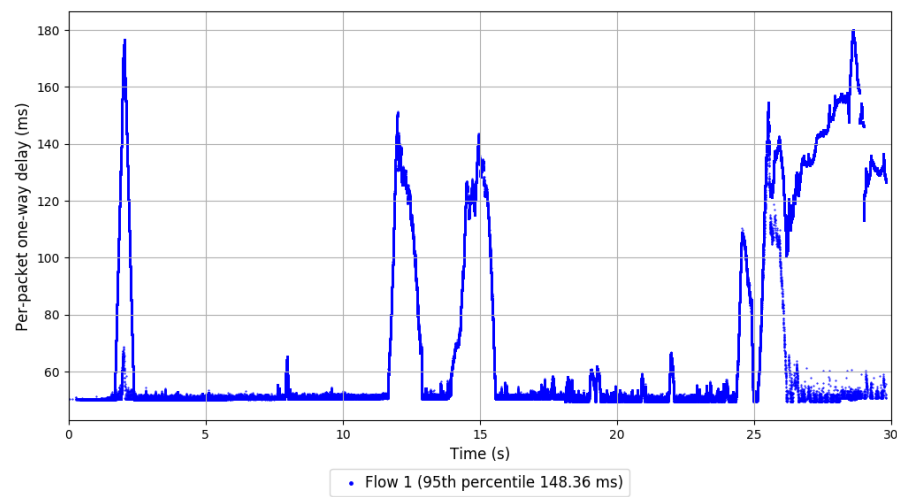
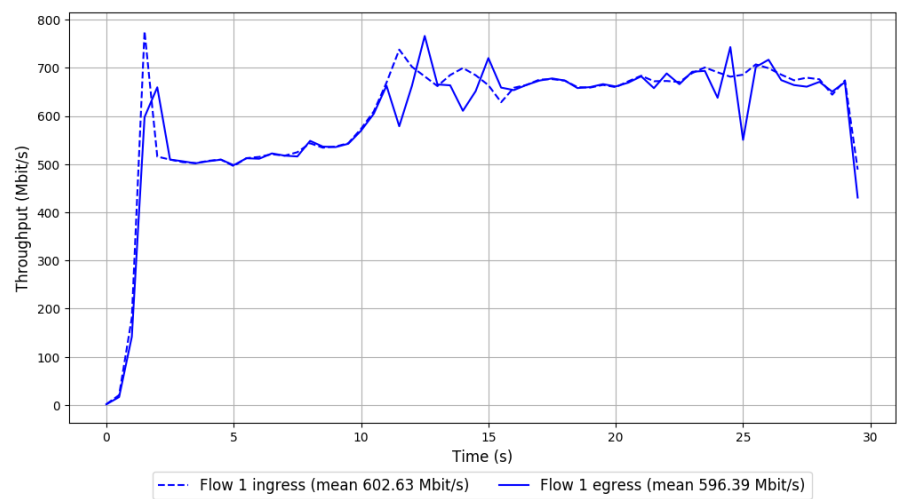
-- Flow 1:

Average throughput: 596.39 Mbit/s

95th percentile per-packet one-way delay: 148.361 ms

Loss rate: 1.37%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-21 04:17:07

End at: 2017-11-21 04:17:37

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.84 Mbit/s

95th percentile per-packet one-way delay: 127.146 ms

Loss rate: 2.10%

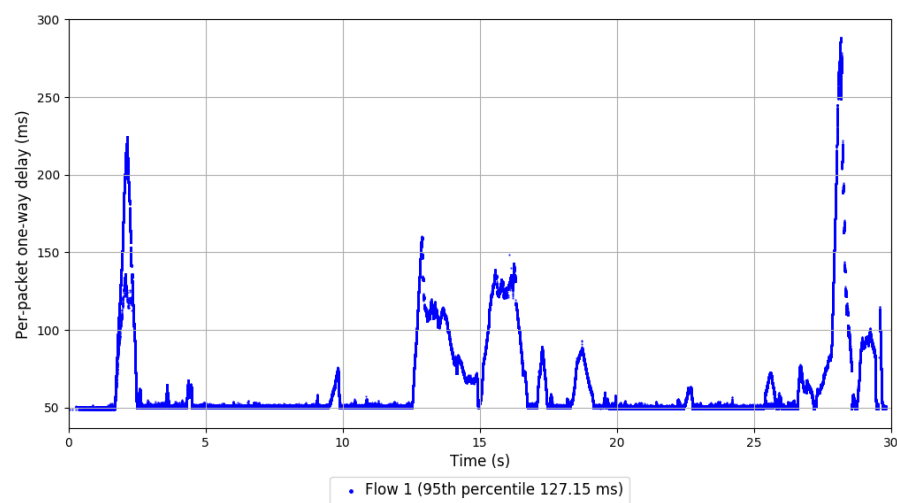
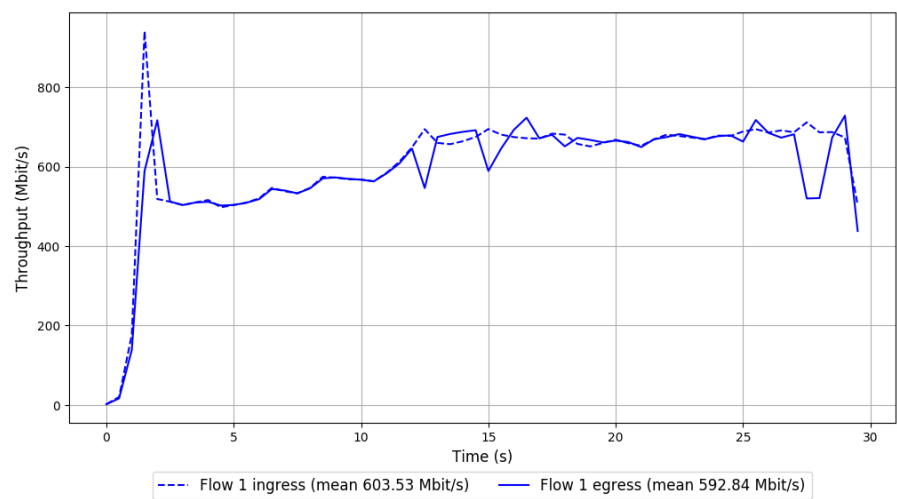
-- Flow 1:

Average throughput: 592.84 Mbit/s

95th percentile per-packet one-way delay: 127.146 ms

Loss rate: 2.10%

Run 10: Report of PCC — Data Link

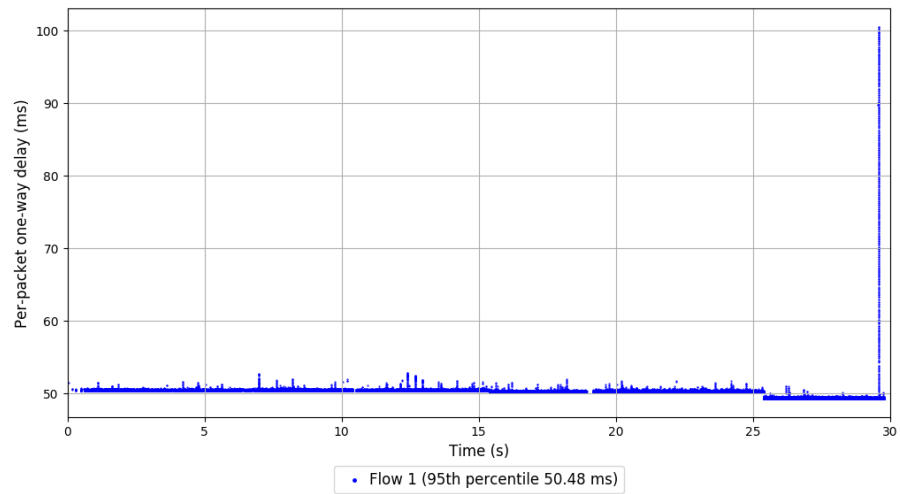
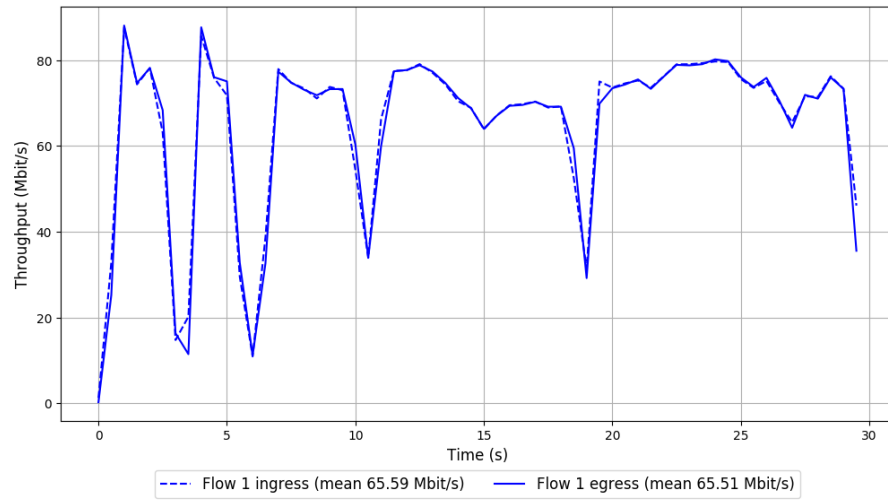


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 02:39:34
End at: 2017-11-21 02:40:04

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.51 Mbit/s
95th percentile per-packet one-way delay: 50.476 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 65.51 Mbit/s
95th percentile per-packet one-way delay: 50.476 ms
Loss rate: 0.47%
```


Run 1: Report of QUIC Cubic — Data Link

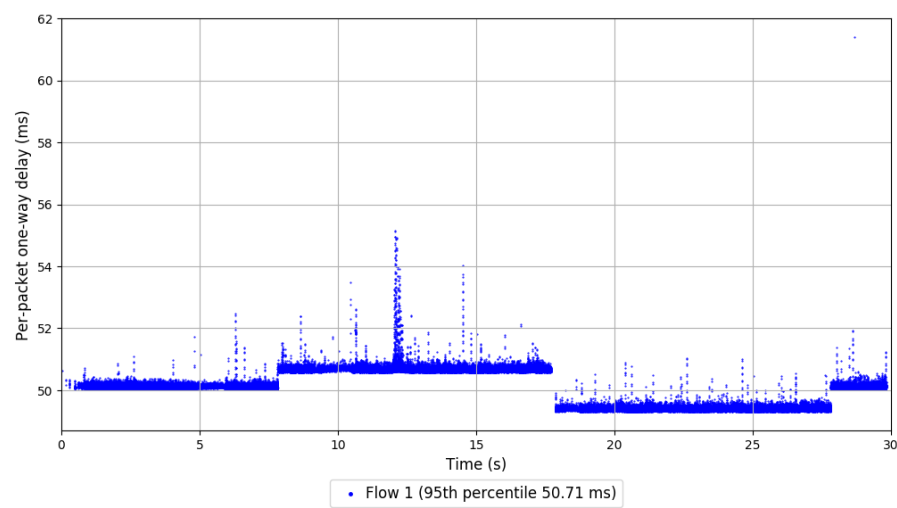
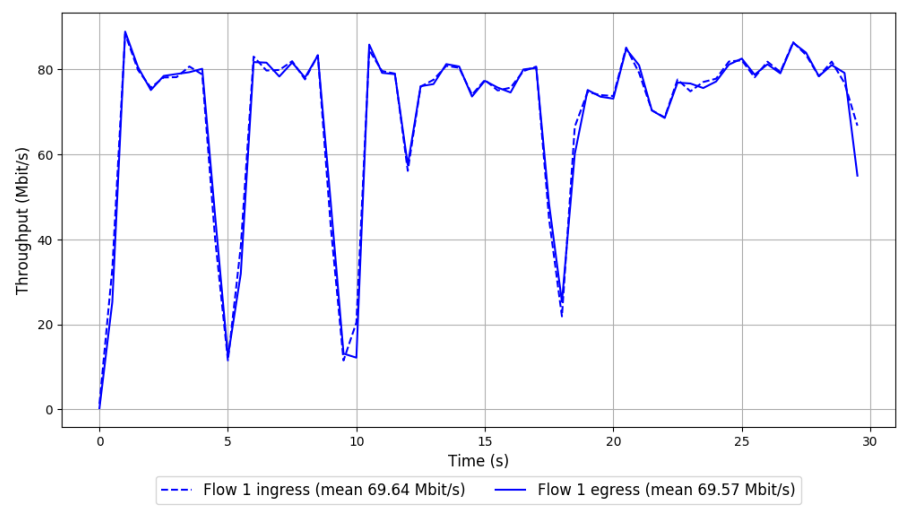


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 02:49:52
End at: 2017-11-21 02:50:22

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.57 Mbit/s
95th percentile per-packet one-way delay: 50.709 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 69.57 Mbit/s
95th percentile per-packet one-way delay: 50.709 ms
Loss rate: 0.44%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 03:00:33

End at: 2017-11-21 03:01:03

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 50.576 ms

Loss rate: 0.40%

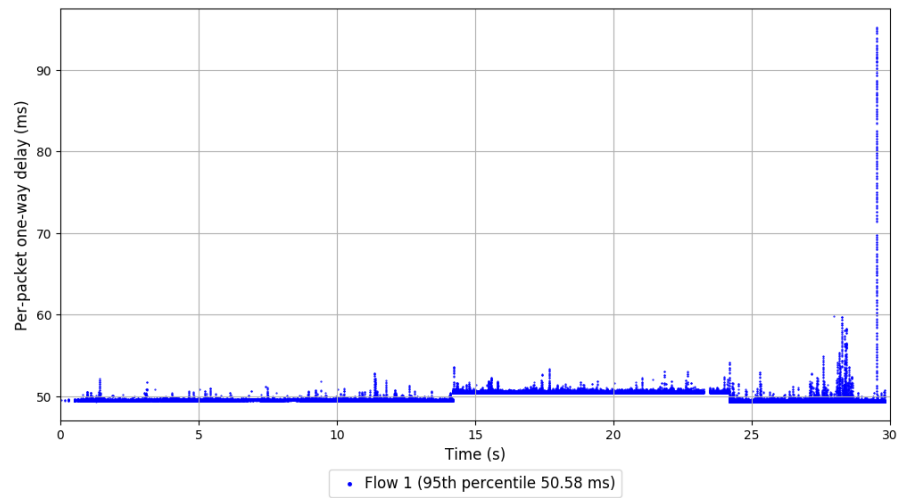
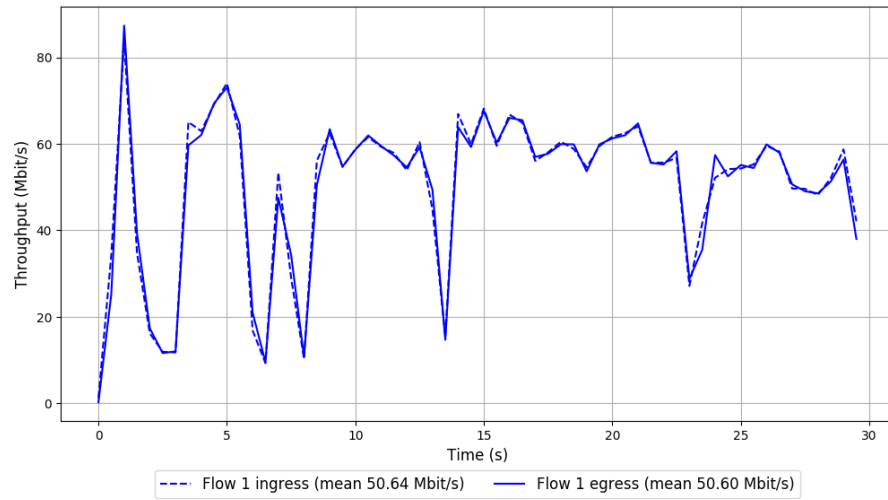
-- Flow 1:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 50.576 ms

Loss rate: 0.40%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 03:11:07

End at: 2017-11-21 03:11:37

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 50.389 ms

Loss rate: 0.34%

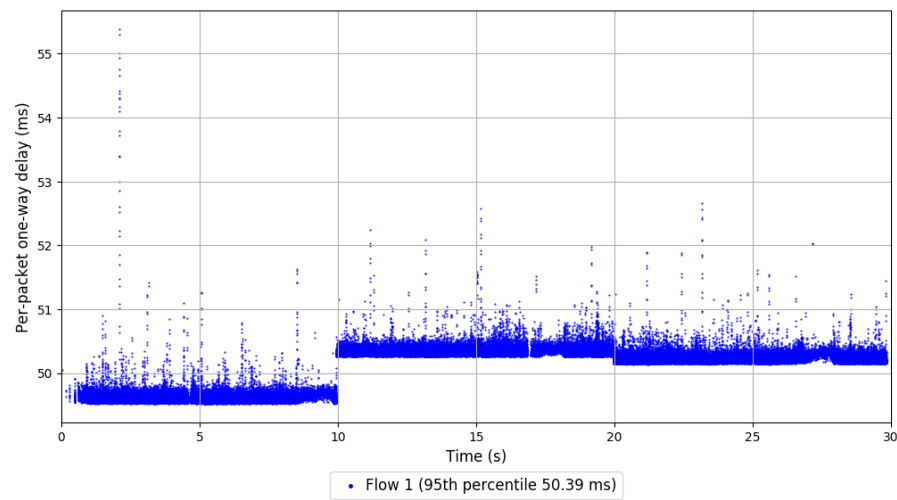
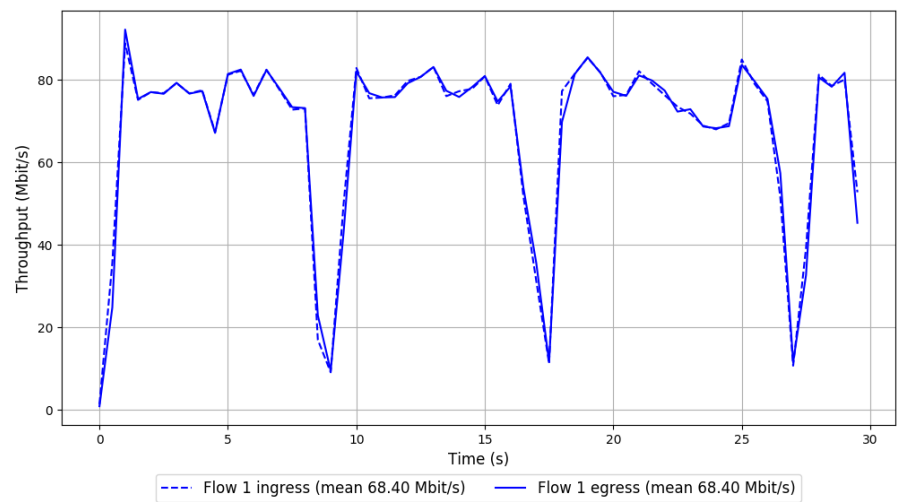
-- Flow 1:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 50.389 ms

Loss rate: 0.34%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 03:21:37

End at: 2017-11-21 03:22:07

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.09 Mbit/s

95th percentile per-packet one-way delay: 48.842 ms

Loss rate: 0.38%

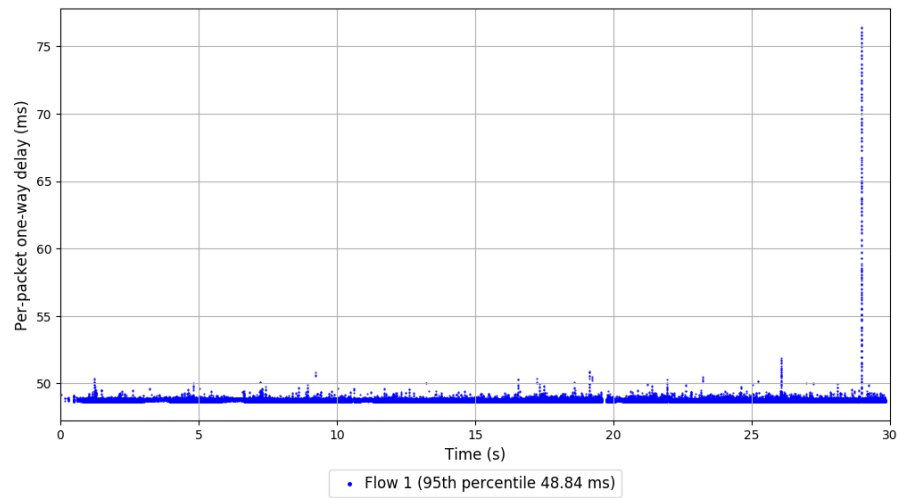
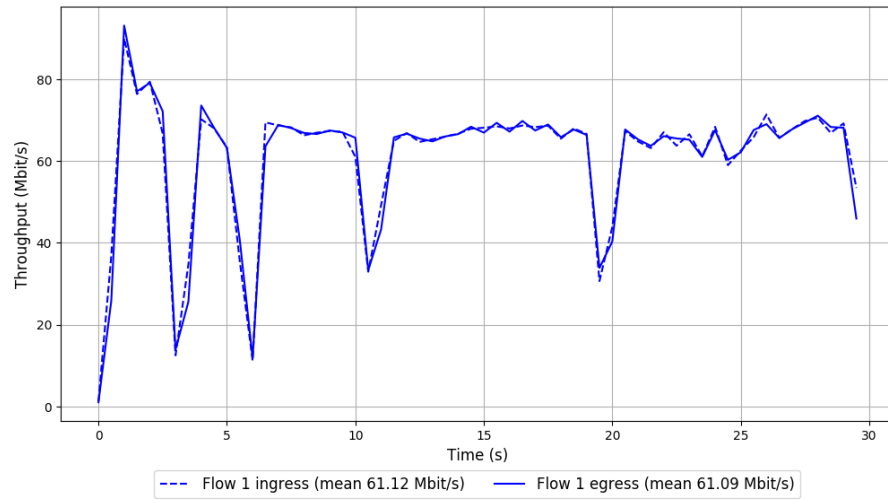
-- Flow 1:

Average throughput: 61.09 Mbit/s

95th percentile per-packet one-way delay: 48.842 ms

Loss rate: 0.38%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 03:32:06

End at: 2017-11-21 03:32:36

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.59 Mbit/s

95th percentile per-packet one-way delay: 50.504 ms

Loss rate: 0.59%

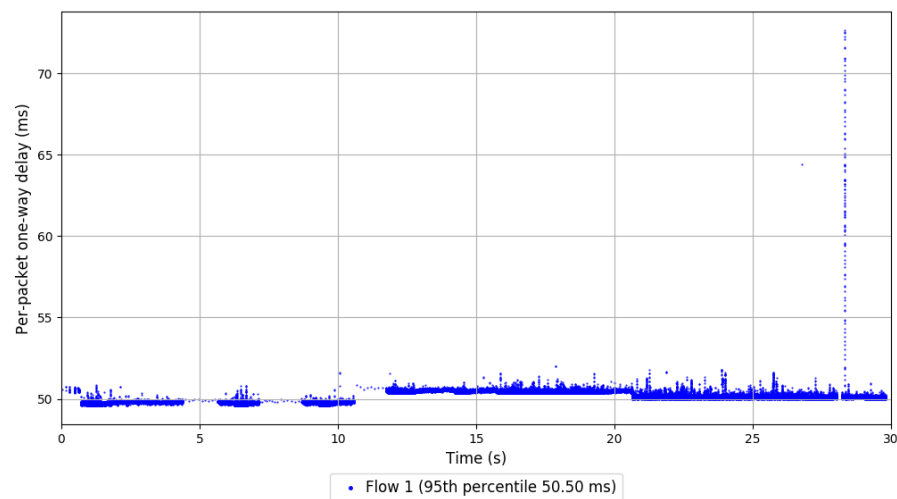
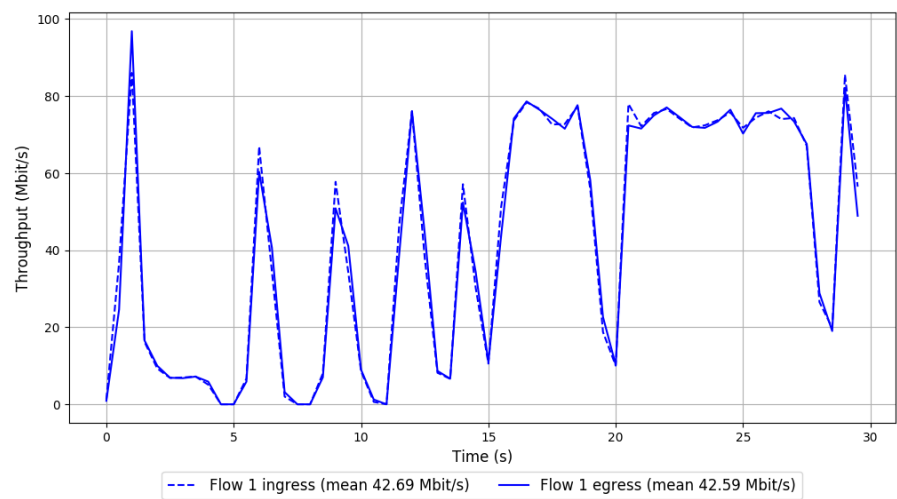
-- Flow 1:

Average throughput: 42.59 Mbit/s

95th percentile per-packet one-way delay: 50.504 ms

Loss rate: 0.59%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 03:42:33

End at: 2017-11-21 03:43:04

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 50.787 ms

Loss rate: 0.46%

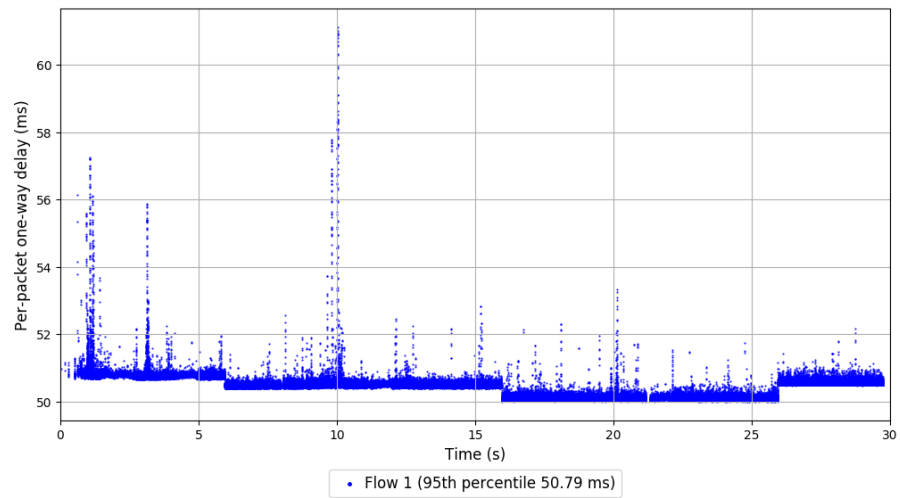
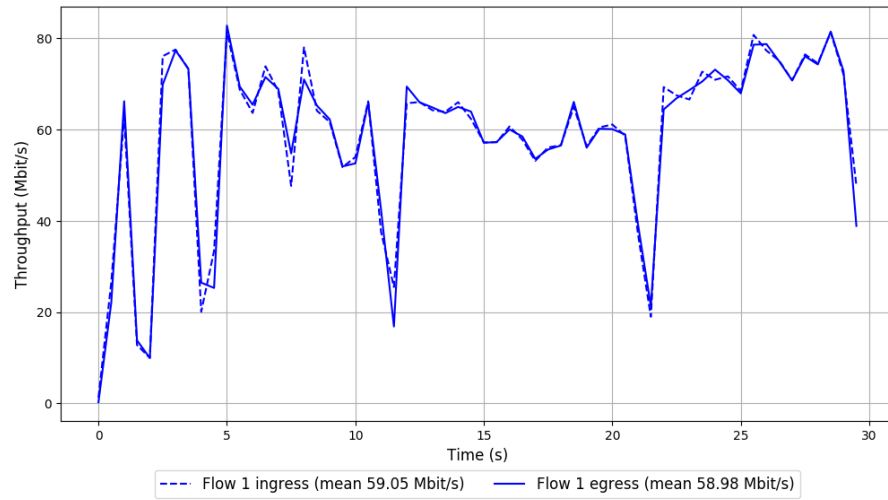
-- Flow 1:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 50.787 ms

Loss rate: 0.46%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 03:53:04

End at: 2017-11-21 03:53:34

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.36%

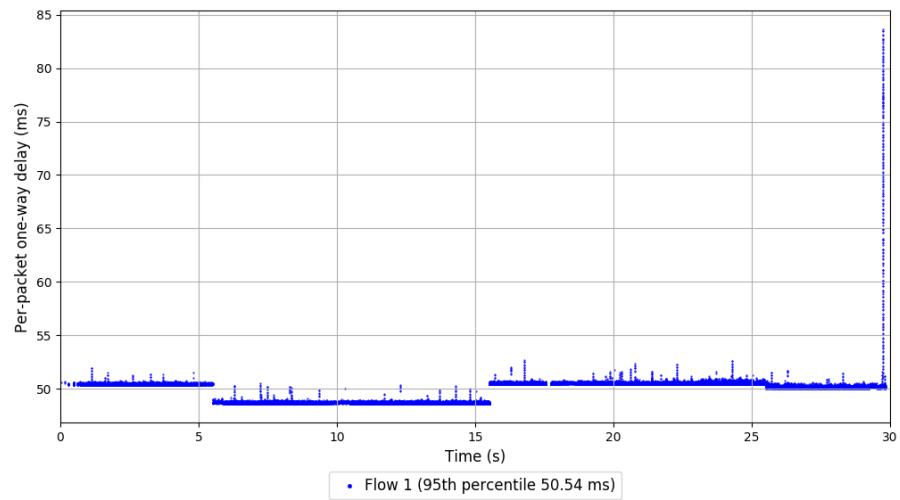
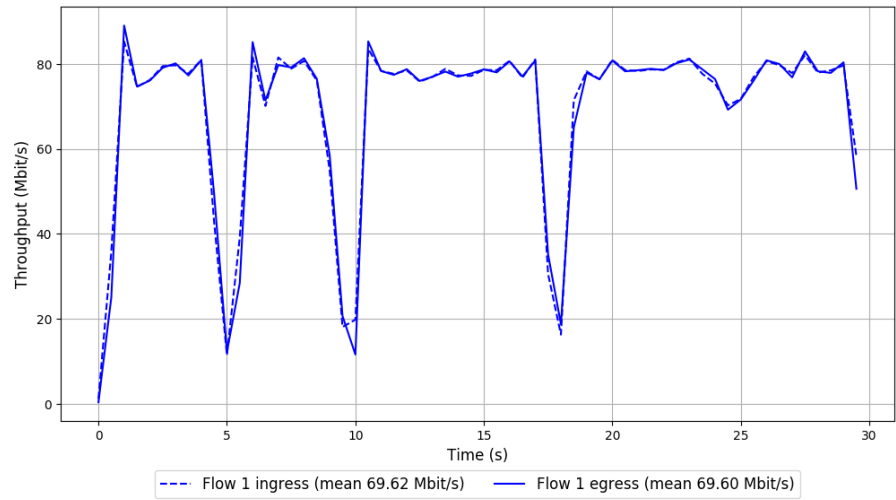
-- Flow 1:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.36%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 04:03:40

End at: 2017-11-21 04:04:10

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.32%

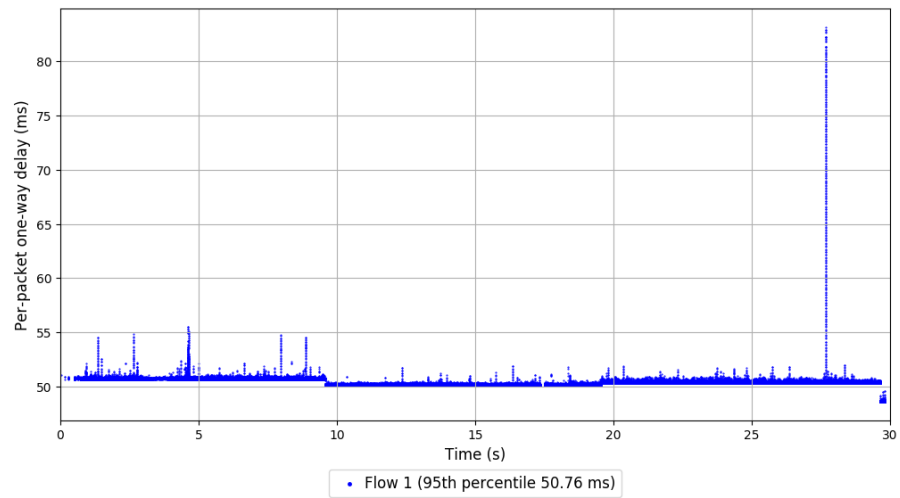
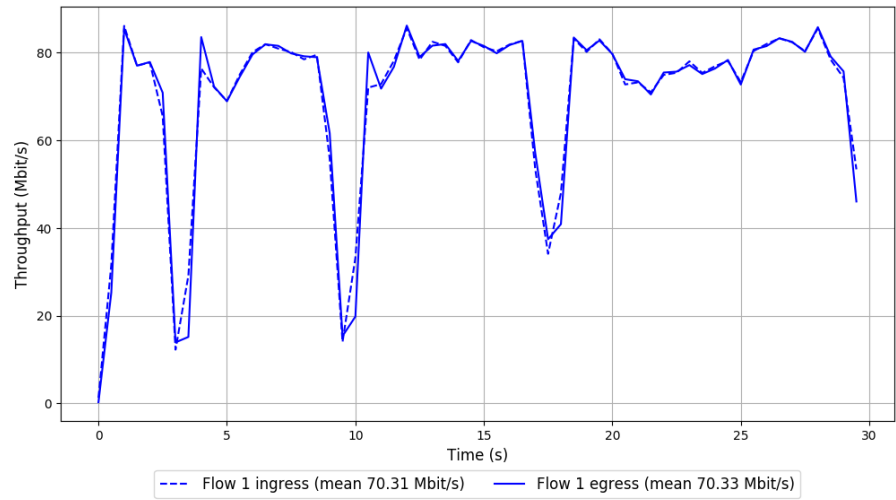
-- Flow 1:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.32%

Run 9: Report of QUIC Cubic — Data Link

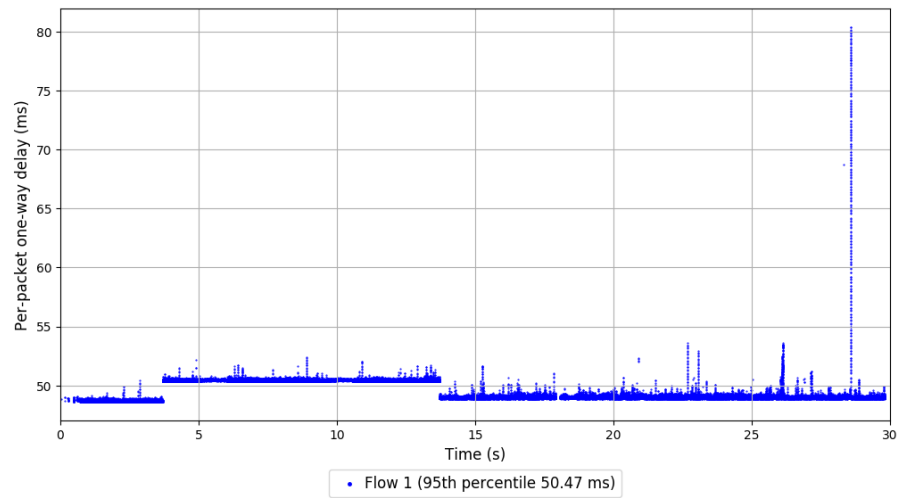
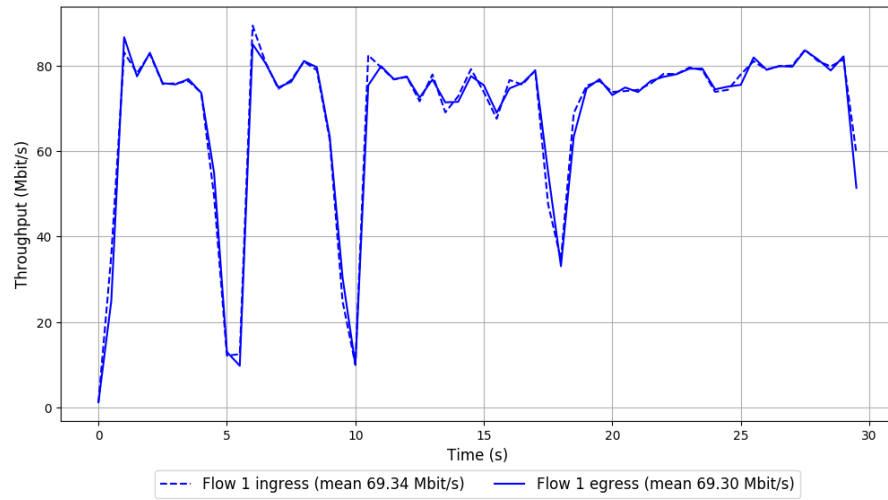


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 04:14:13
End at: 2017-11-21 04:14:43

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.30 Mbit/s
95th percentile per-packet one-way delay: 50.468 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 69.30 Mbit/s
95th percentile per-packet one-way delay: 50.468 ms
Loss rate: 0.39%
```

Run 10: Report of QUIC Cubic — Data Link

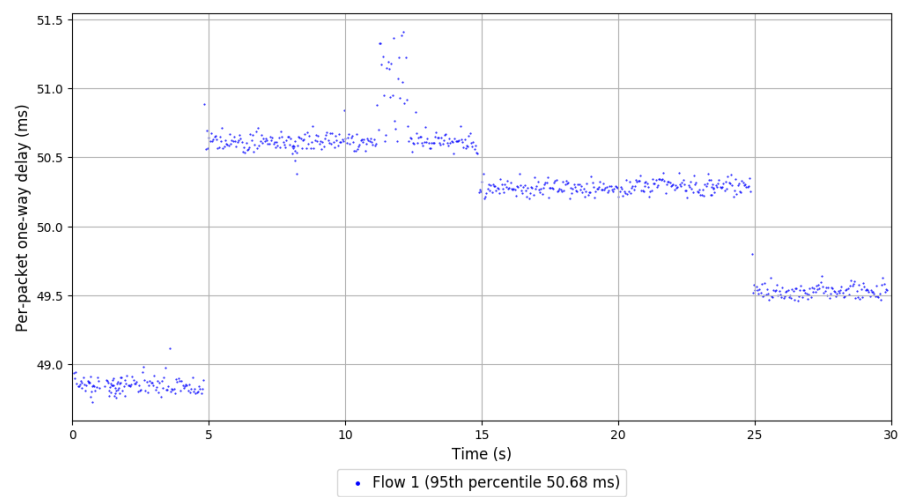
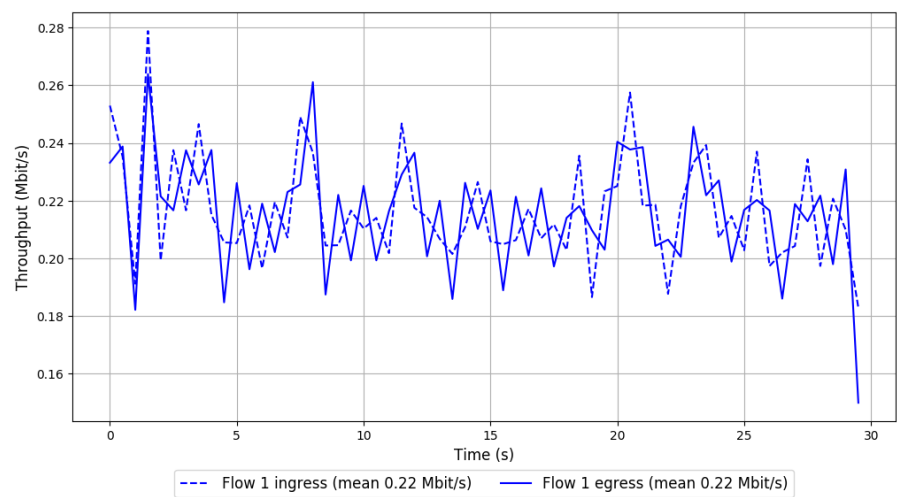


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 02:40:15
End at: 2017-11-21 02:40:45

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-11-21 02:50:33

End at: 2017-11-21 02:51:03

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.38%

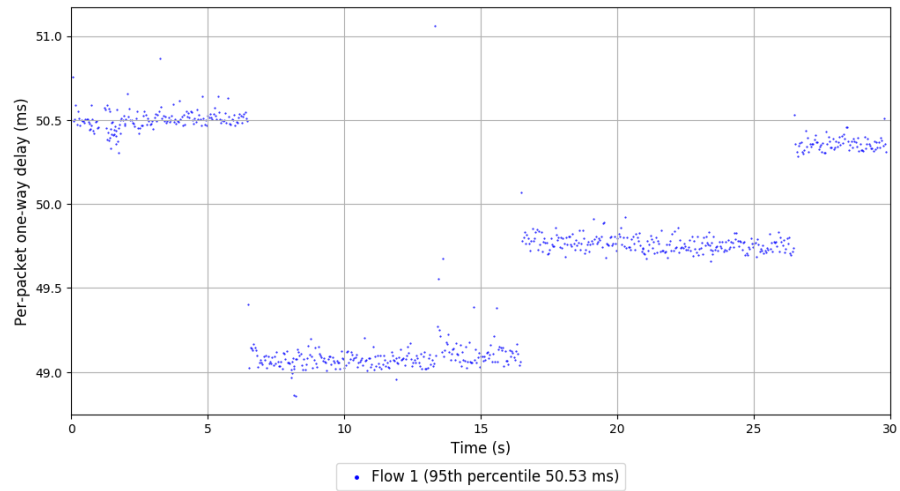
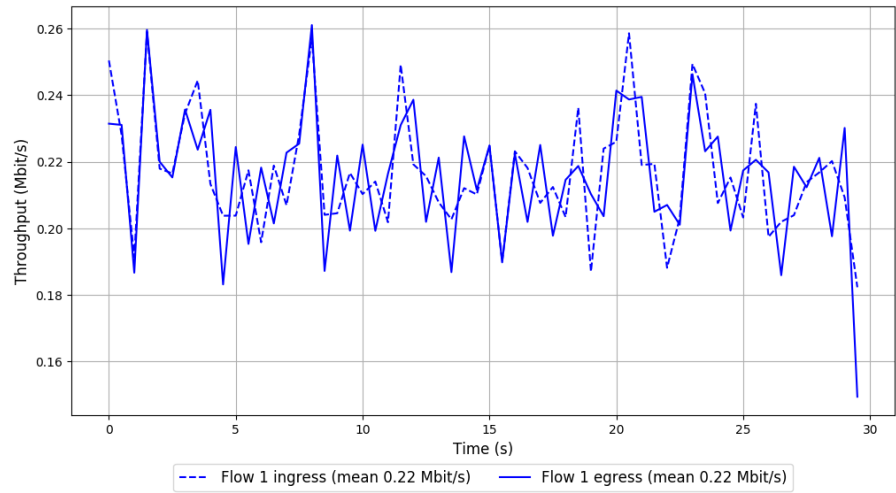
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-21 03:01:14

End at: 2017-11-21 03:01:44

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

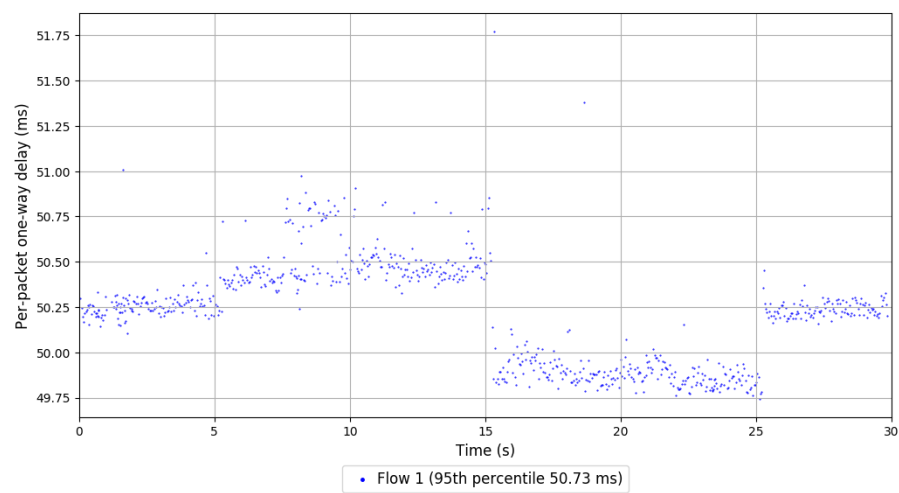
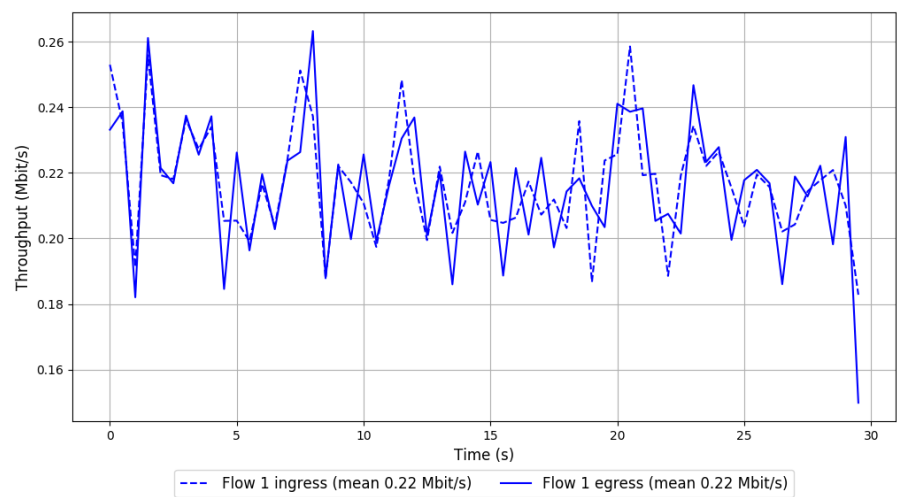
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-21 03:11:48

End at: 2017-11-21 03:12:18

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.366 ms

Loss rate: 0.51%

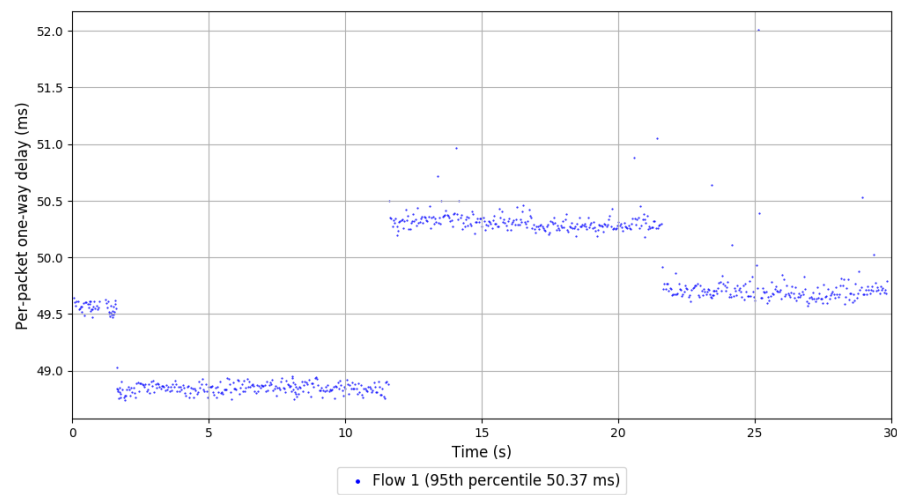
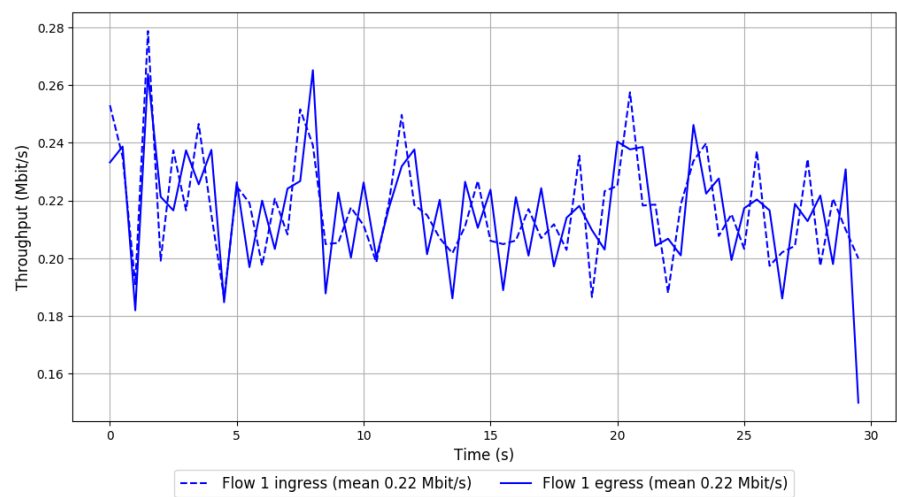
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.366 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-21 03:22:17

End at: 2017-11-21 03:22:47

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.831 ms

Loss rate: 0.38%

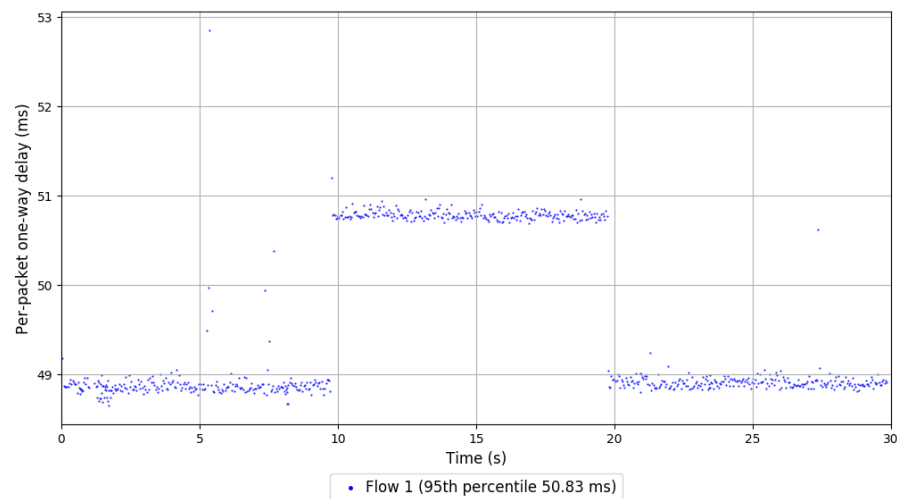
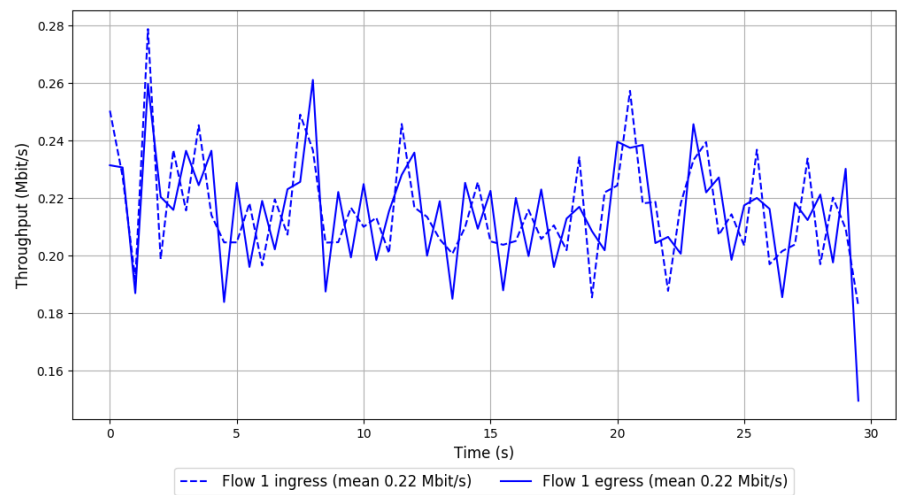
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.831 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-21 03:32:46

End at: 2017-11-21 03:33:16

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.38%

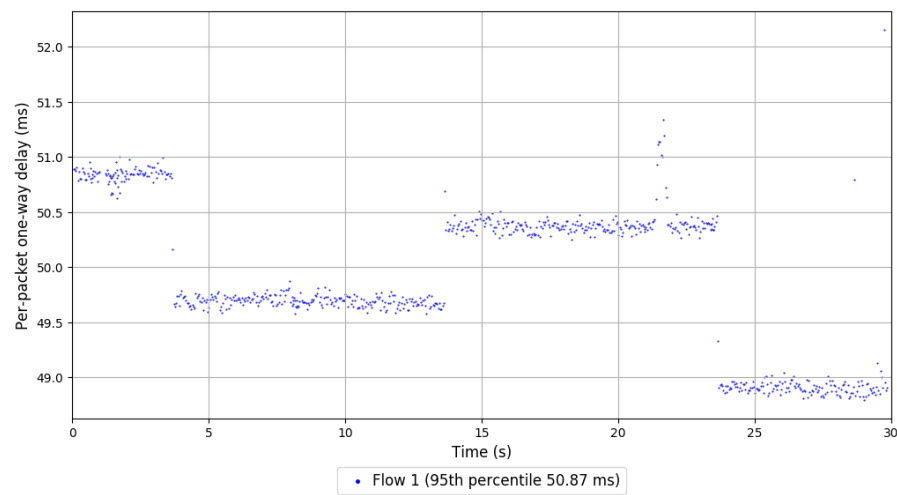
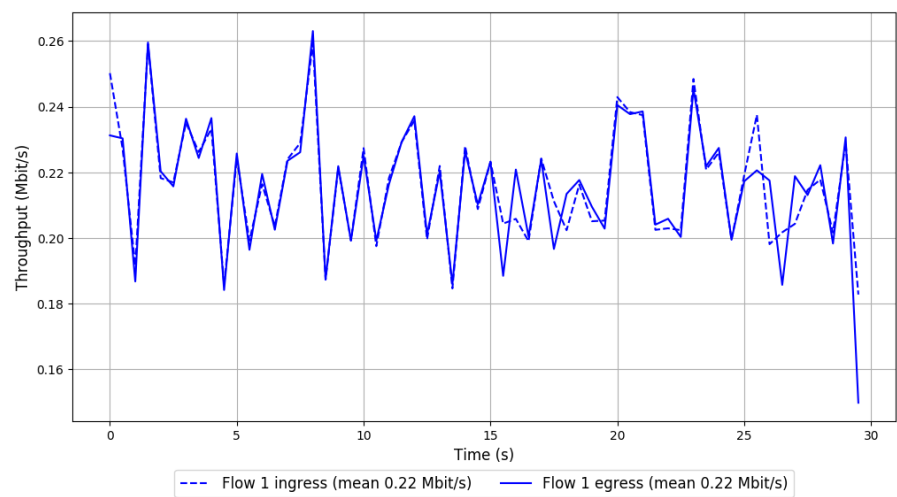
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-21 03:43:14

End at: 2017-11-21 03:43:44

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.38%

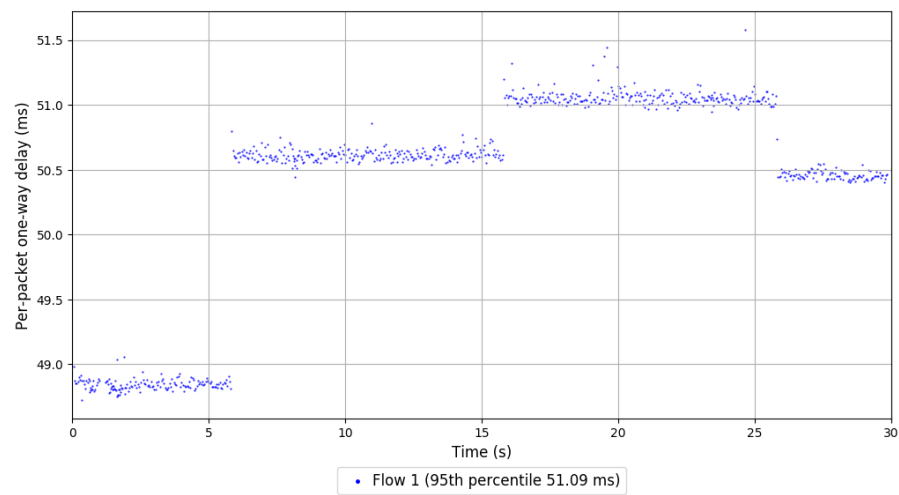
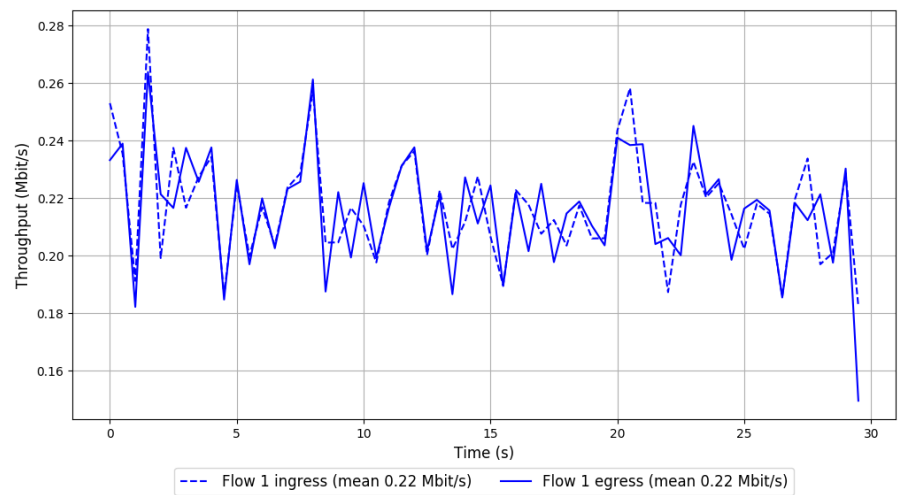
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-21 03:53:45

End at: 2017-11-21 03:54:15

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.657 ms

Loss rate: 0.38%

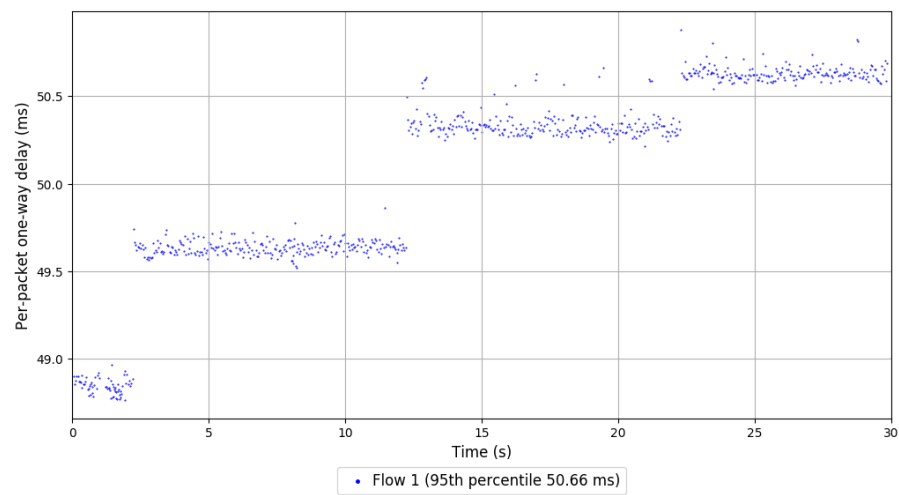
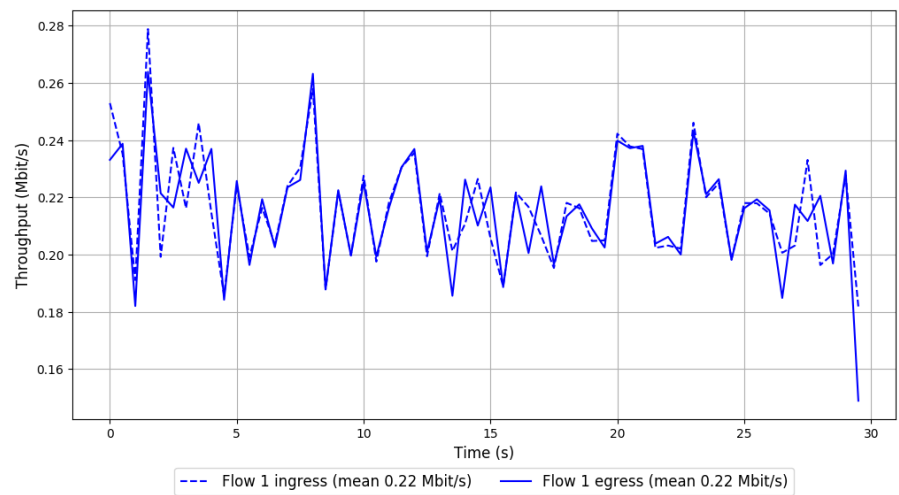
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.657 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 04:04:21

End at: 2017-11-21 04:04:51

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.745 ms

Loss rate: 0.38%

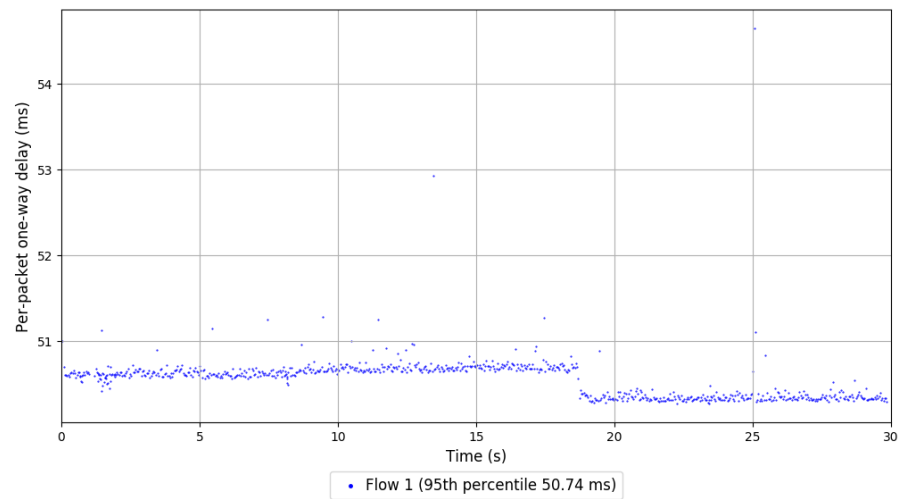
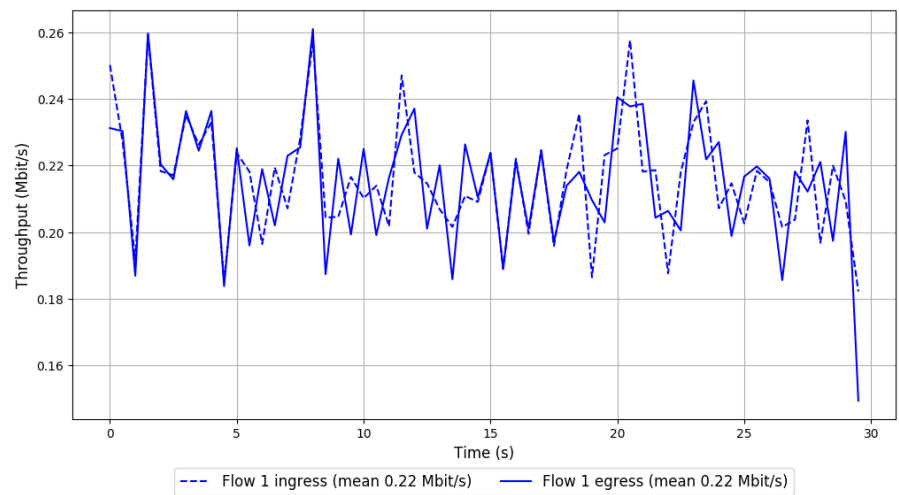
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.745 ms

Loss rate: 0.38%

Run 9: Report of SCRaM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-21 04:14:54

End at: 2017-11-21 04:15:24

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

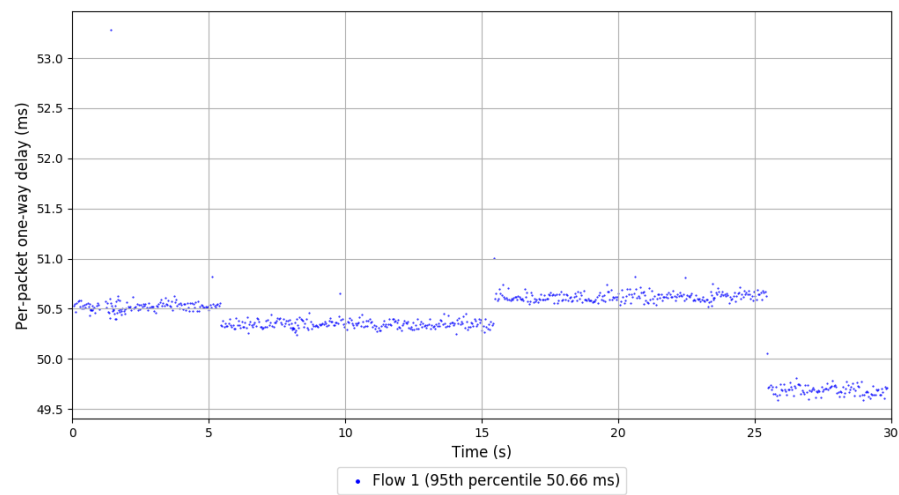
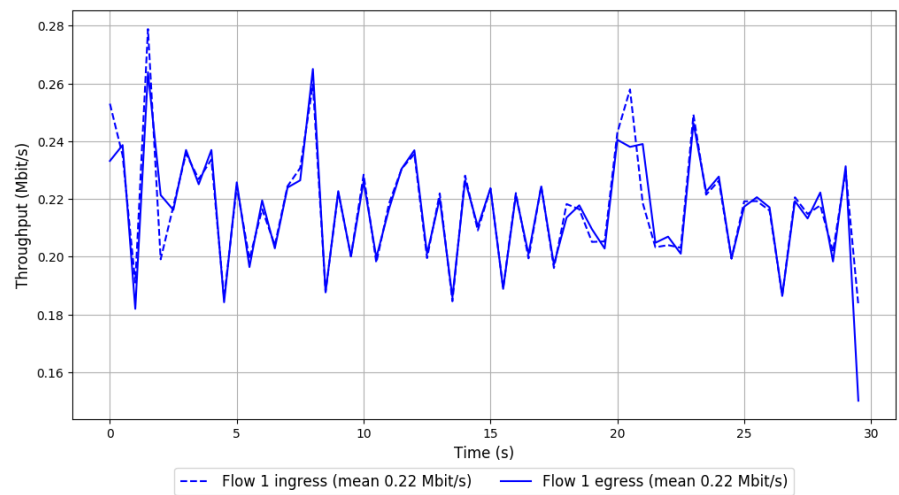
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

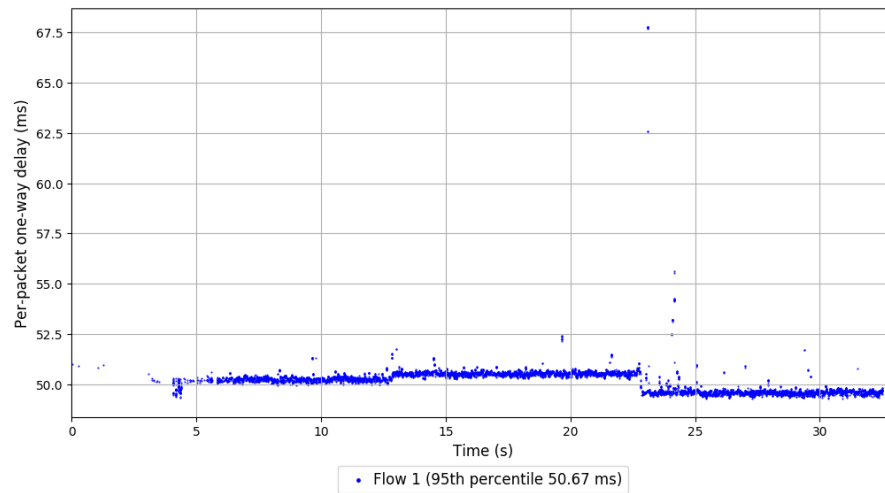
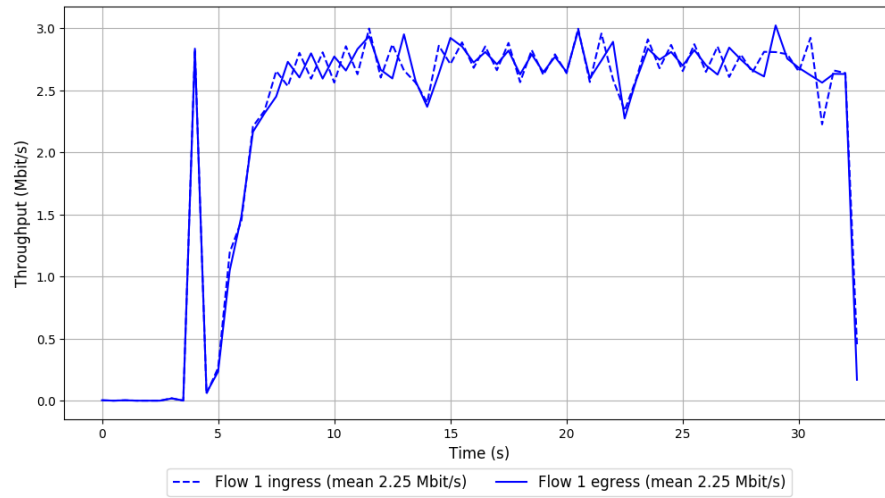


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 02:45:39
End at: 2017-11-21 02:46:09

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 50.667 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 50.667 ms
Loss rate: 0.35%
```


Run 1: Report of WebRTC media — Data Link

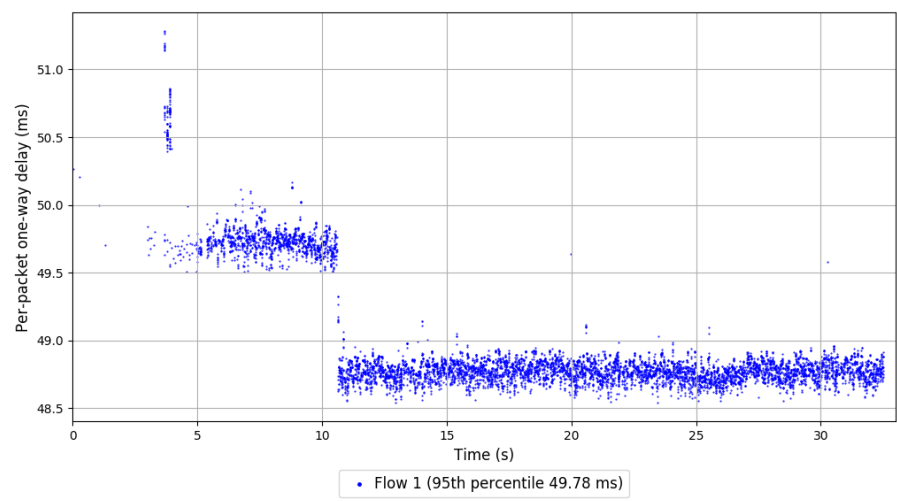
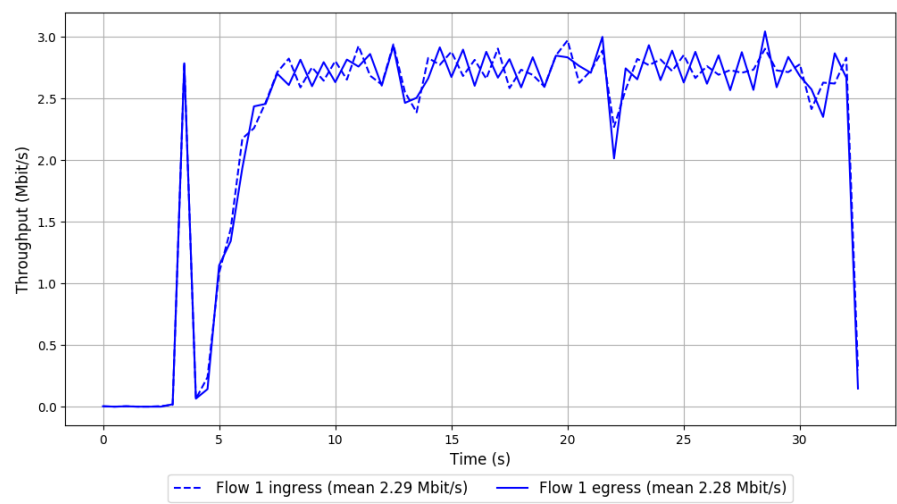


```
Run 2: Statistics of WebRTC media

Start at: 2017-11-21 02:56:12
End at: 2017-11-21 02:56:42

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 49.783 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 49.783 ms
Loss rate: 0.35%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 03:06:47

End at: 2017-11-21 03:07:17

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.41%

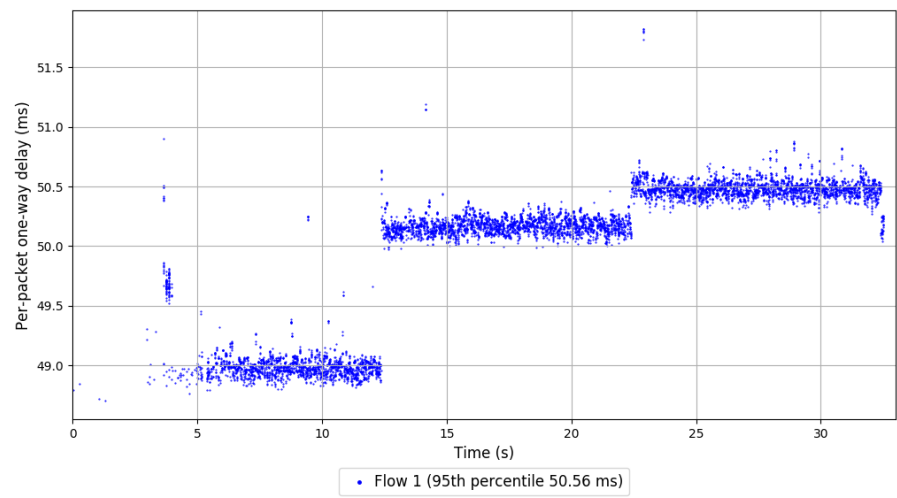
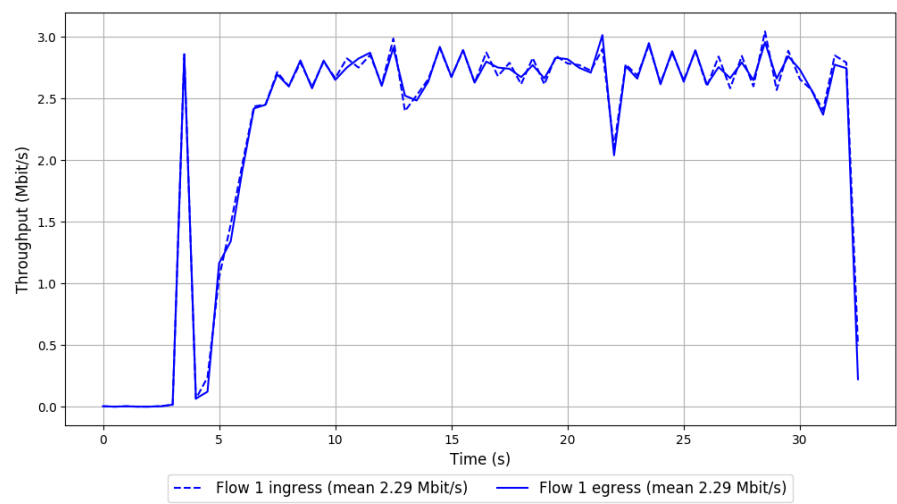
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.41%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 03:17:17

End at: 2017-11-21 03:17:47

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.38%

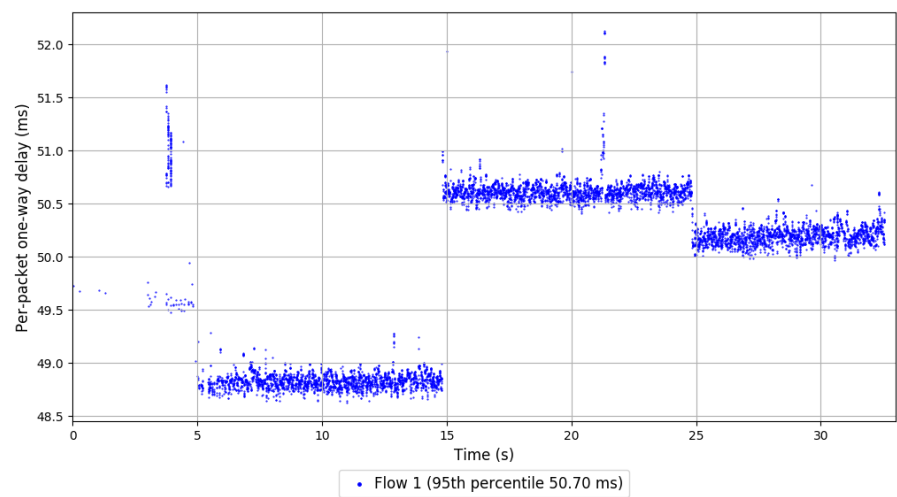
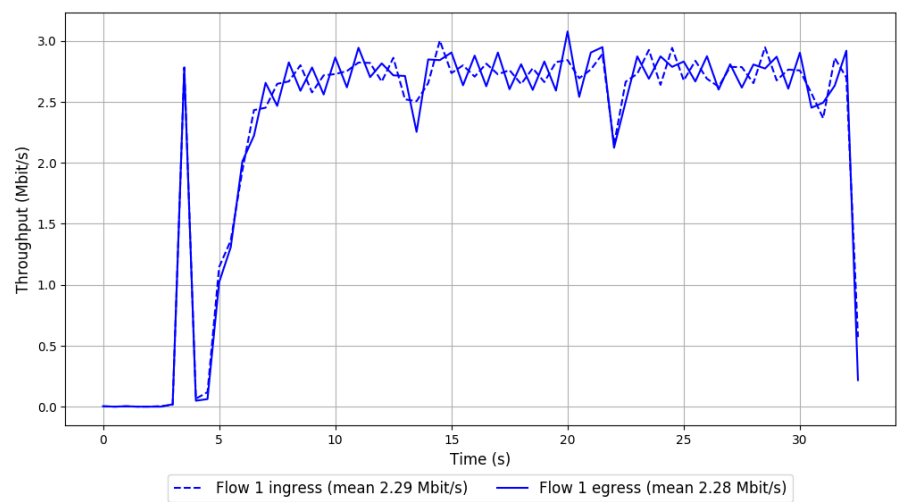
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.38%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 03:27:48

End at: 2017-11-21 03:28:18

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.945 ms

Loss rate: 0.47%

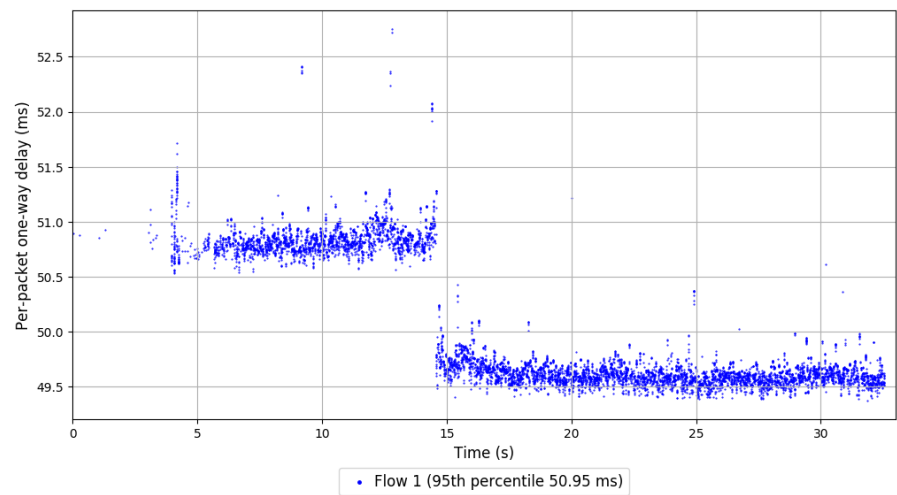
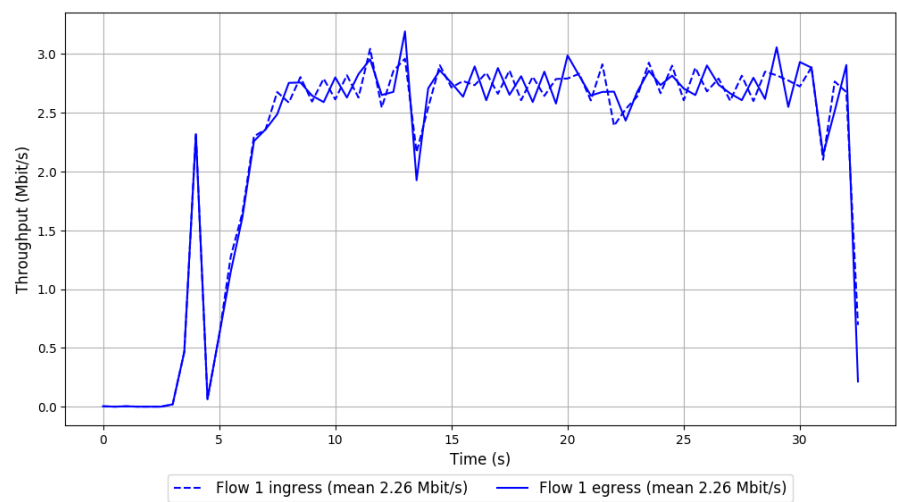
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.945 ms

Loss rate: 0.47%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 03:38:23

End at: 2017-11-21 03:38:53

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 51.078 ms

Loss rate: 0.41%

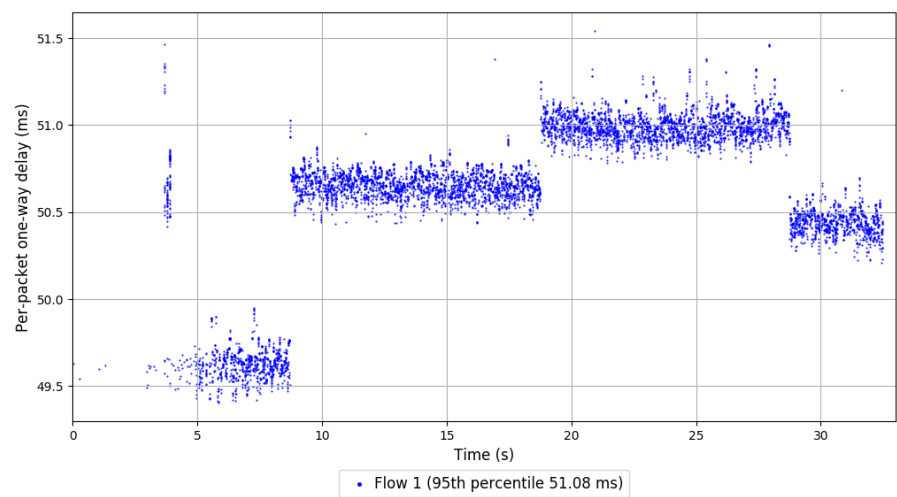
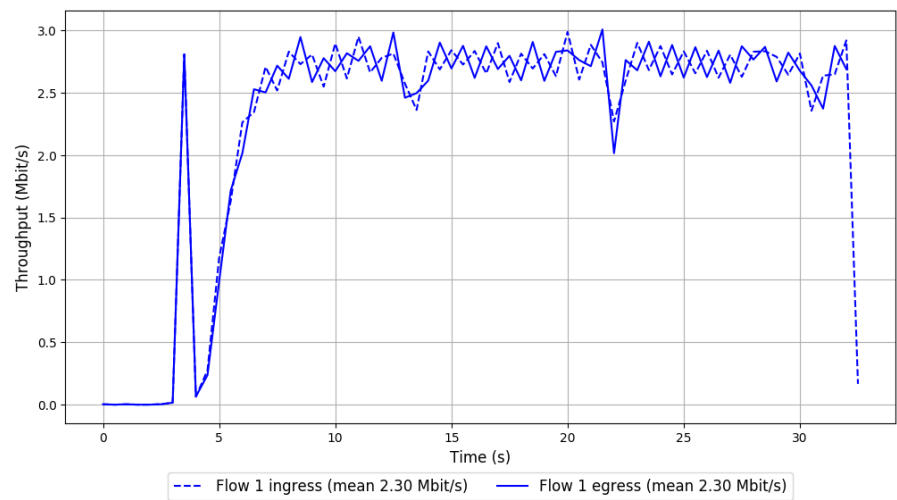
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 51.078 ms

Loss rate: 0.41%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 03:48:52

End at: 2017-11-21 03:49:22

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.772 ms

Loss rate: 0.45%

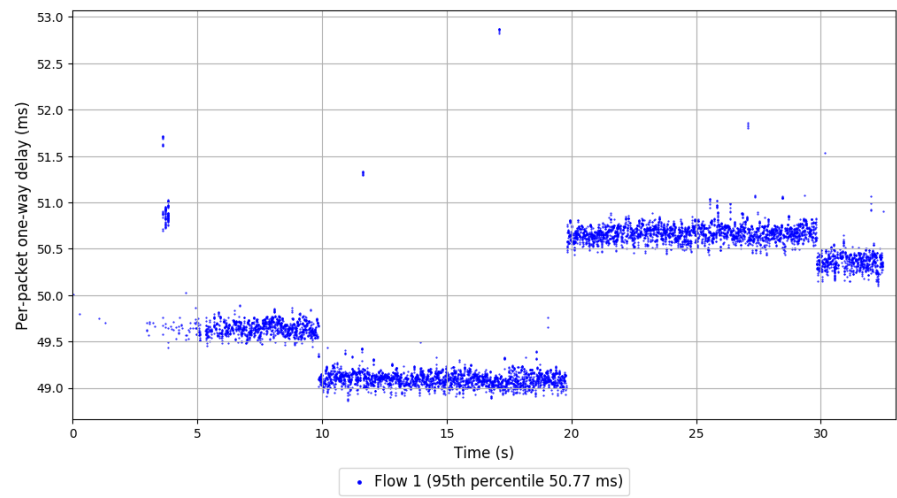
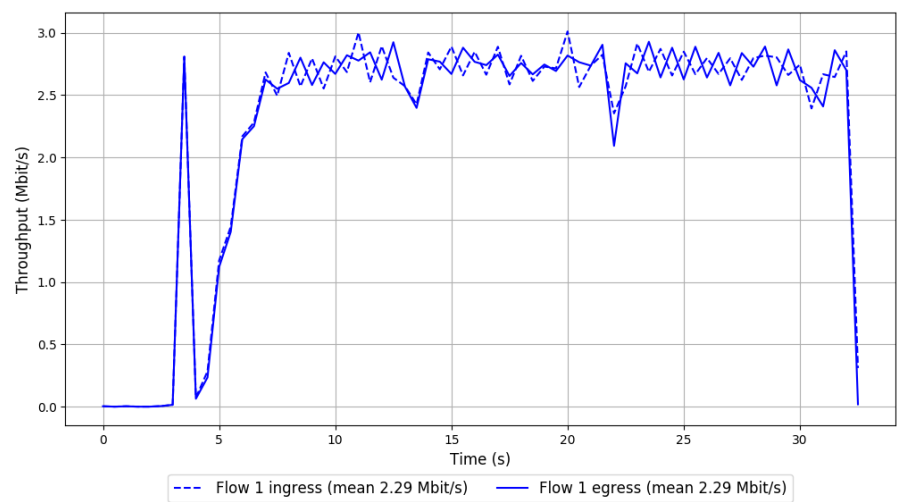
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.772 ms

Loss rate: 0.45%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 03:59:16

End at: 2017-11-21 03:59:46

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.700 ms

Loss rate: 0.30%

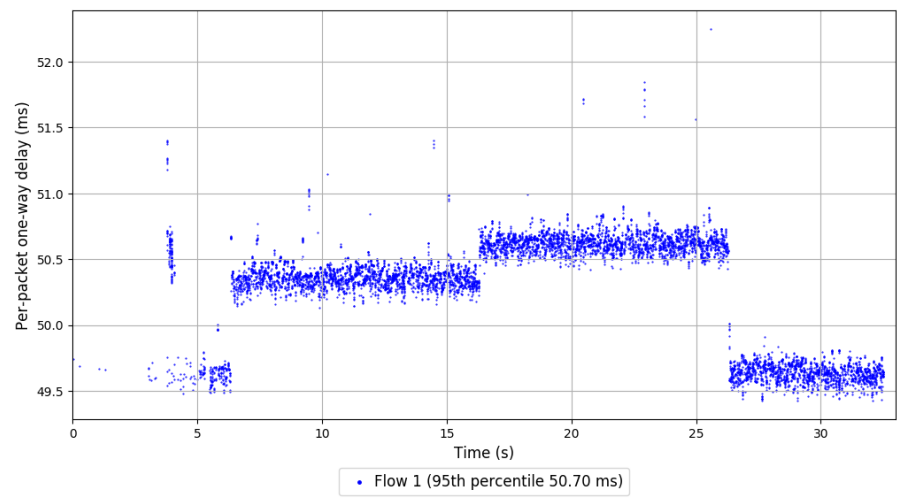
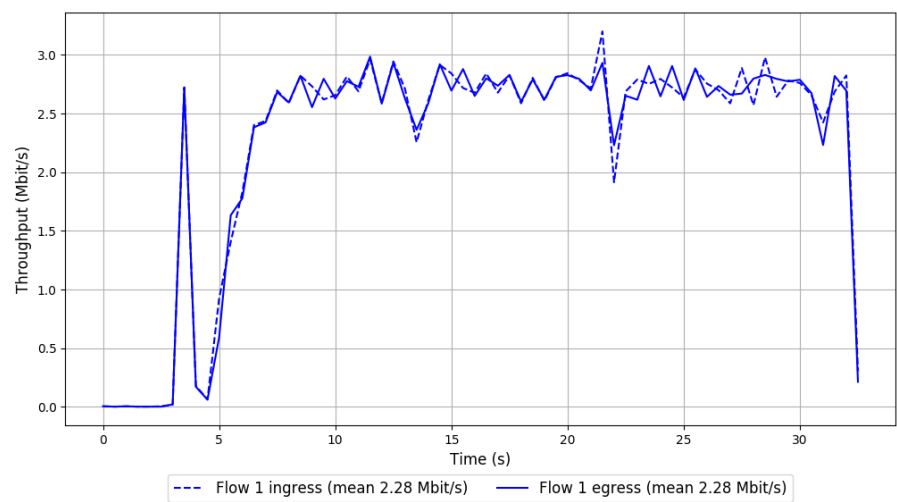
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.700 ms

Loss rate: 0.30%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 04:09:53

End at: 2017-11-21 04:10:23

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.45%

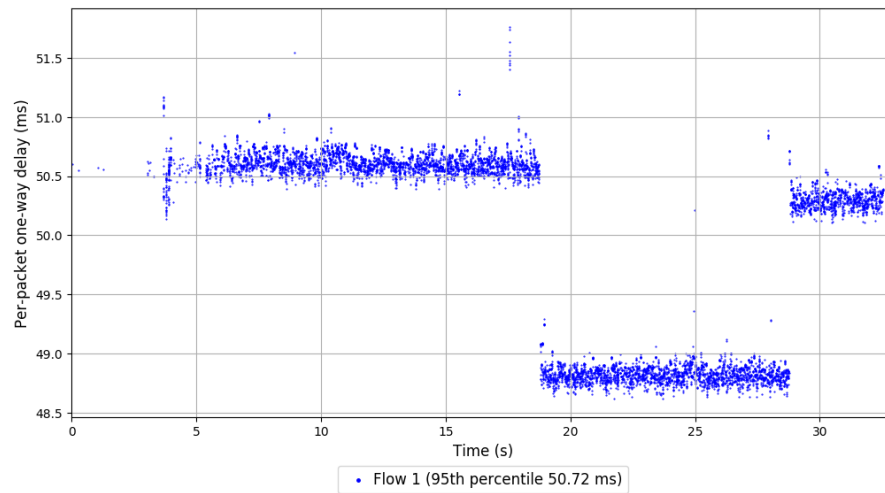
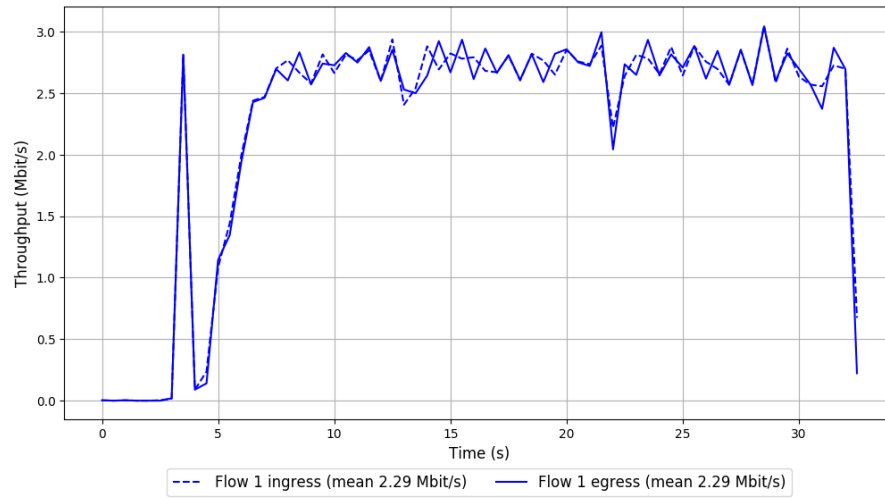
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.45%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 04:20:34

End at: 2017-11-21 04:21:04

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.458 ms

Loss rate: 0.46%

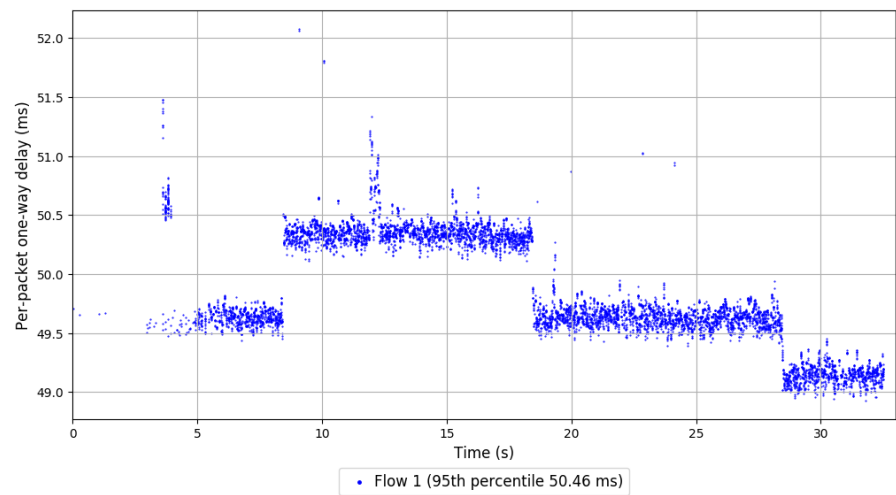
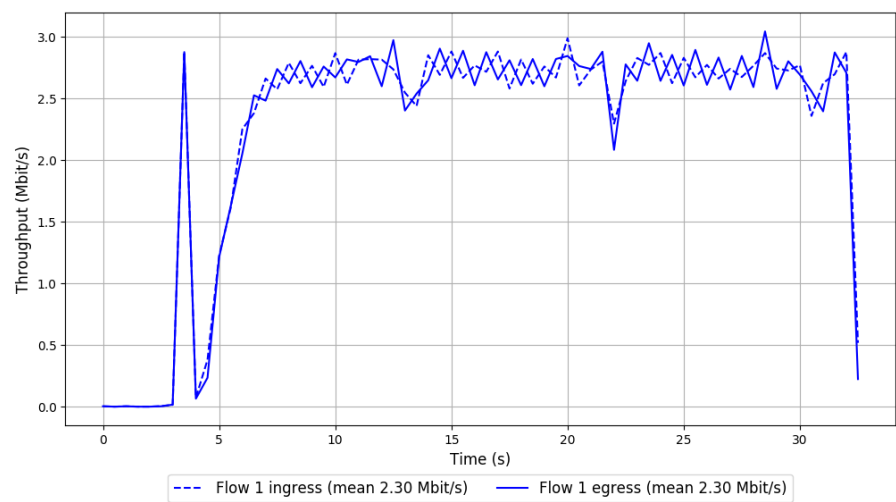
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.458 ms

Loss rate: 0.46%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-21 02:38:57

End at: 2017-11-21 02:39:27

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 51.139 ms

Loss rate: 0.34%

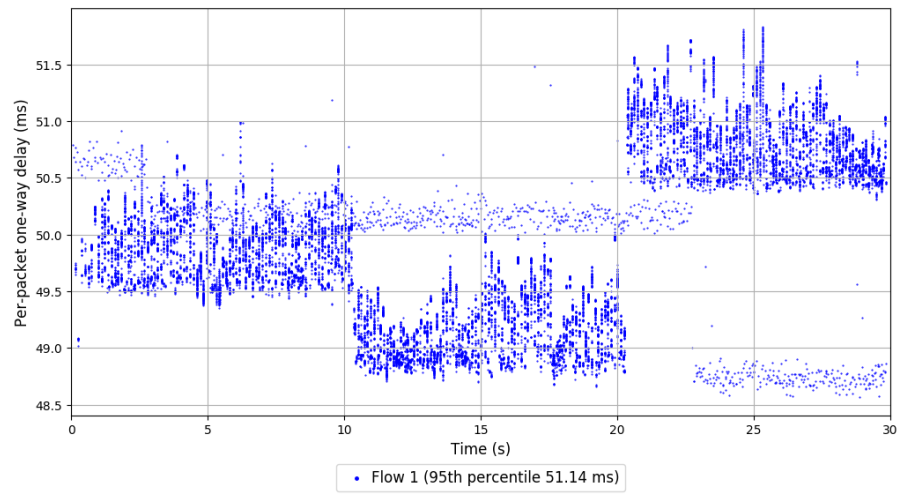
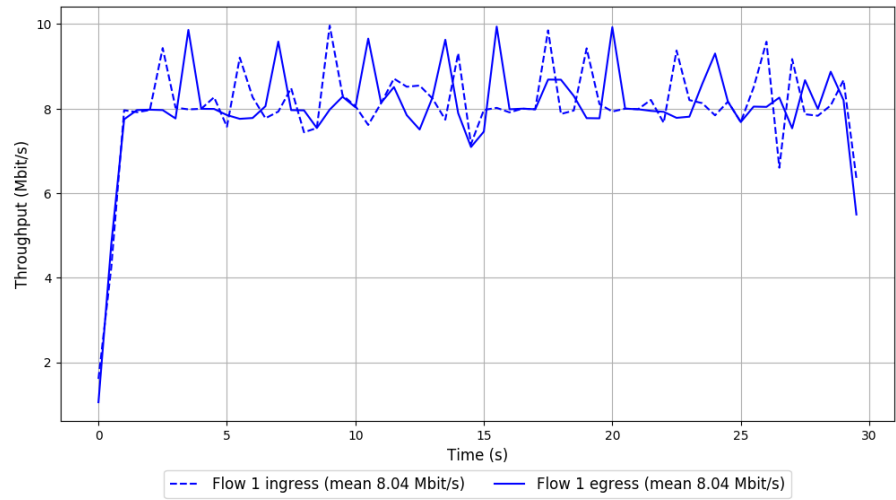
-- Flow 1:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 51.139 ms

Loss rate: 0.34%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 02:49:14

End at: 2017-11-21 02:49:44

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.088 ms

Loss rate: 0.42%

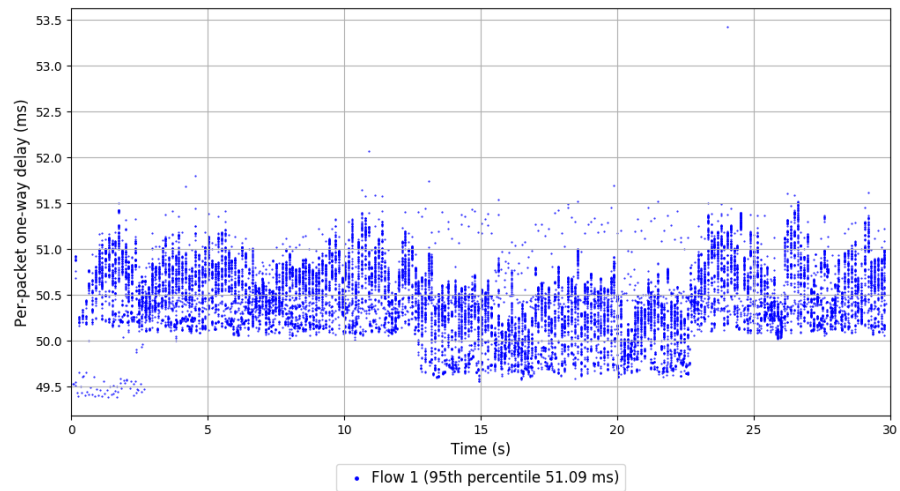
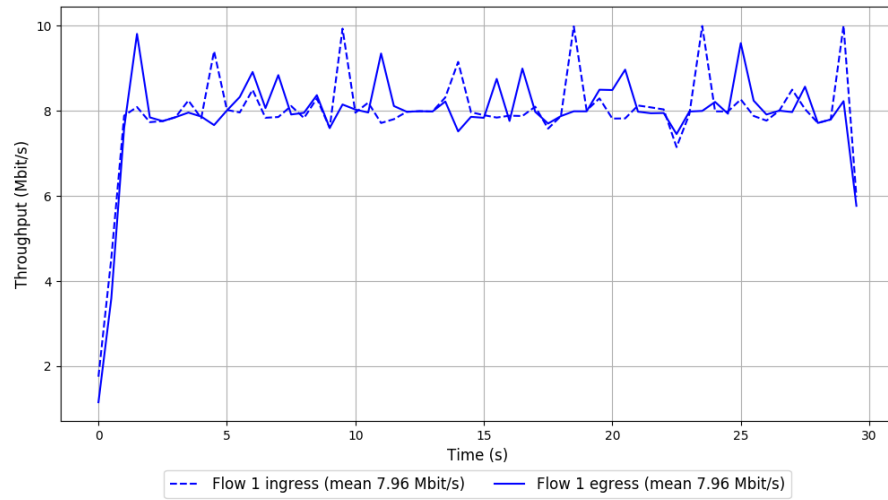
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.088 ms

Loss rate: 0.42%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 02:59:55

End at: 2017-11-21 03:00:25

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.581 ms

Loss rate: 0.67%

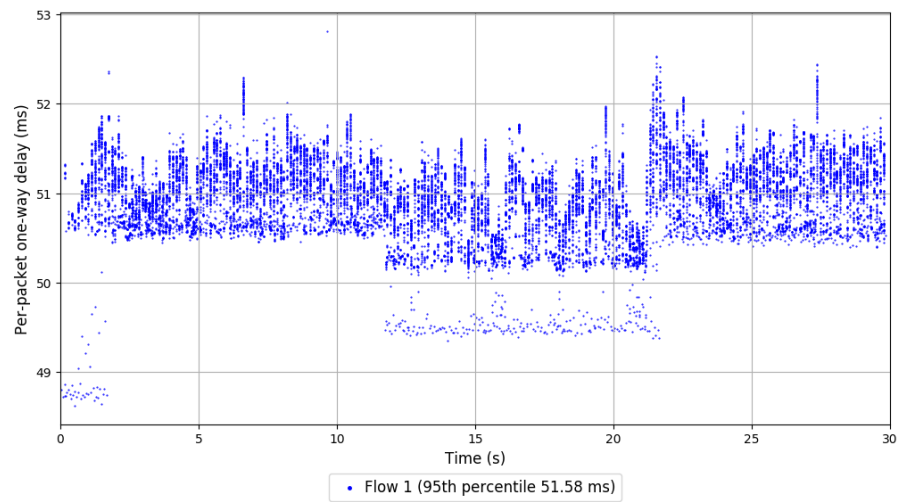
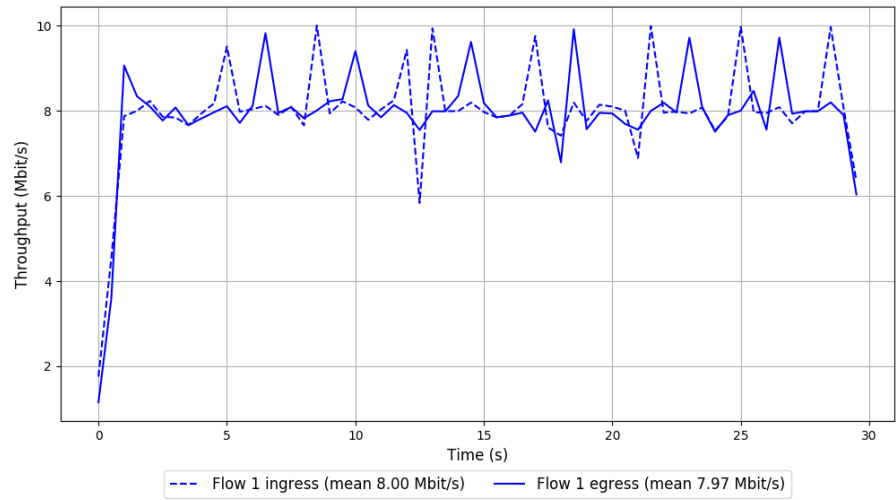
-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.581 ms

Loss rate: 0.67%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 03:10:30

End at: 2017-11-21 03:11:00

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

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

Loss rate: 0.29%

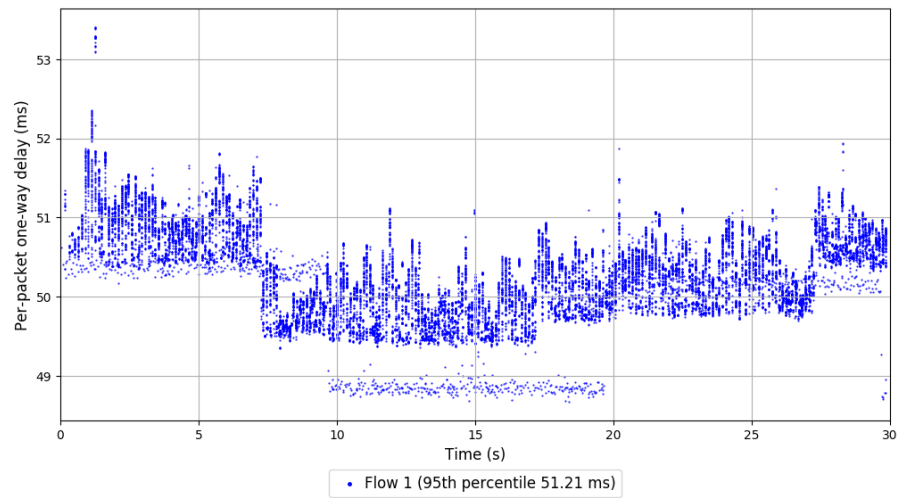
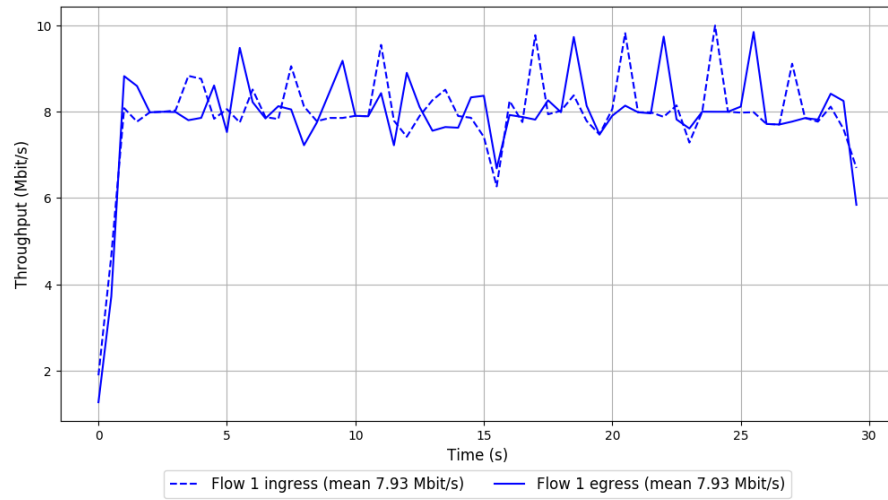
-- Flow 1:

Average throughput: 7.93 Mbit/s

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

Loss rate: 0.29%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 03:21:00

End at: 2017-11-21 03:21:30

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 51.461 ms

Loss rate: 0.07%

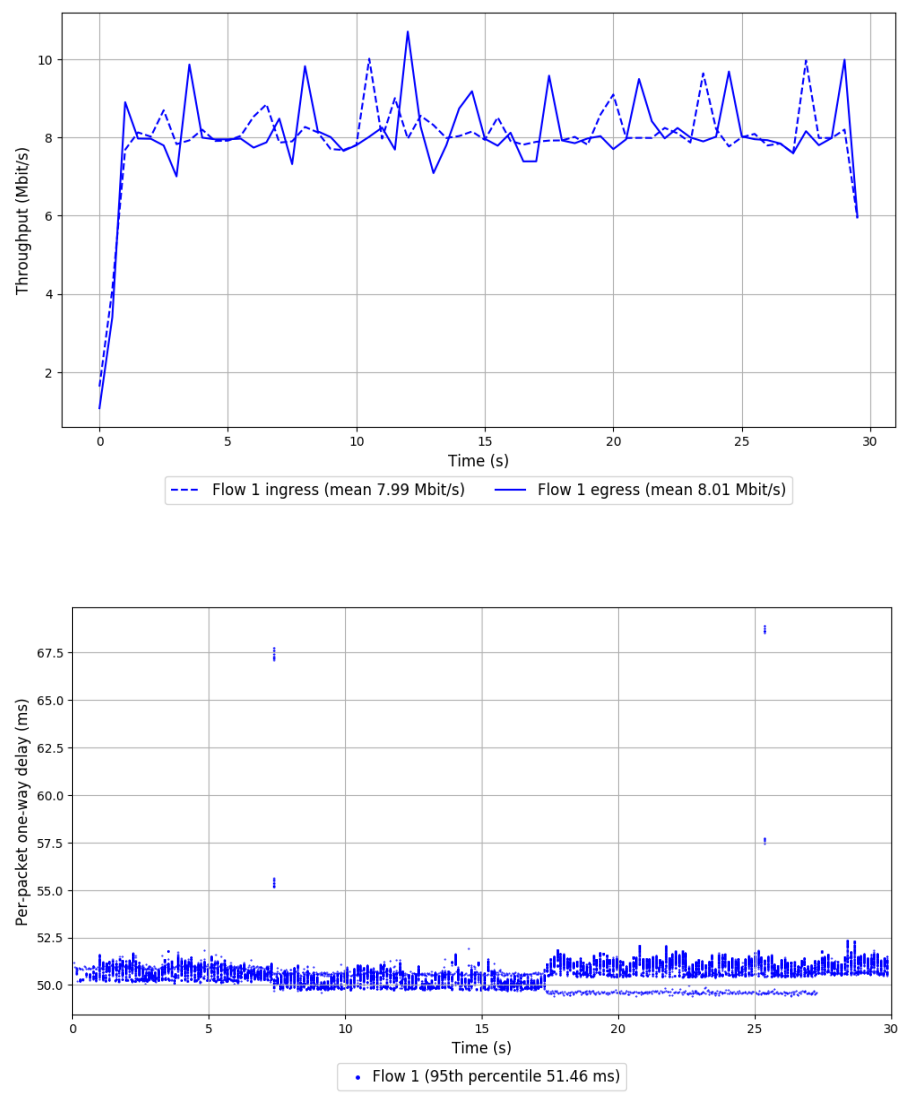
-- Flow 1:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 51.461 ms

Loss rate: 0.07%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 03:31:29

End at: 2017-11-21 03:31:59

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.795 ms

Loss rate: 0.53%

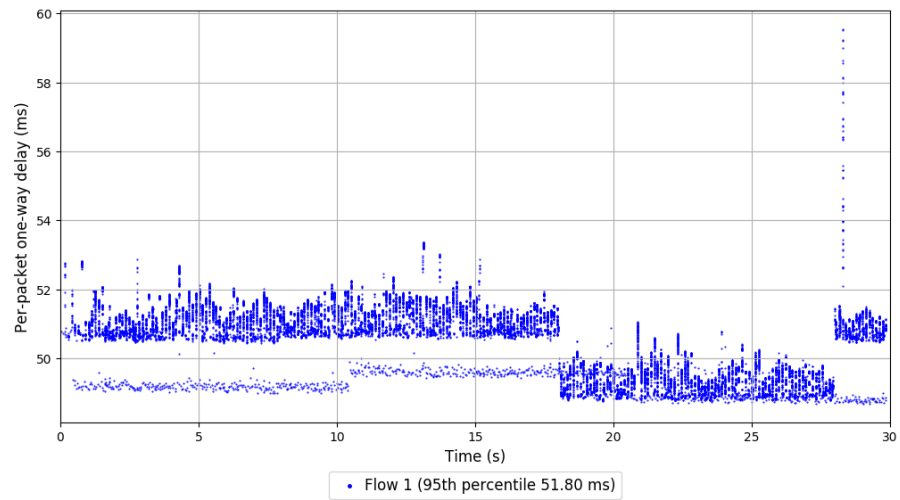
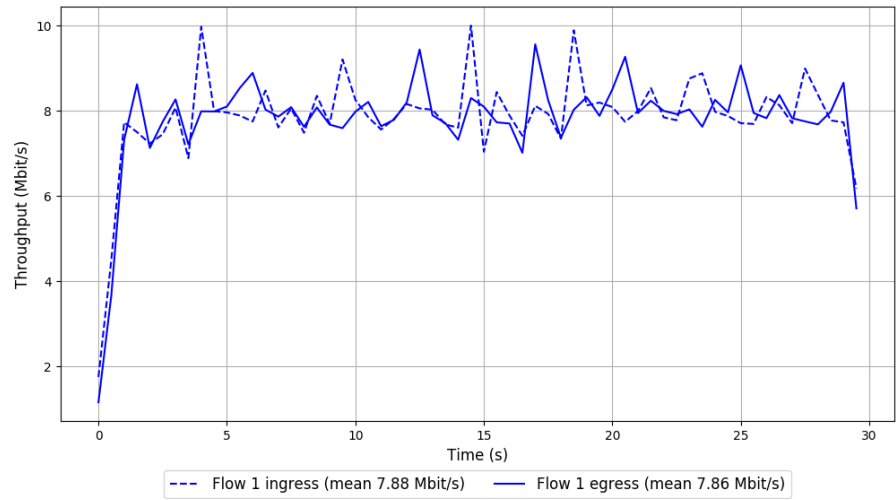
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.795 ms

Loss rate: 0.53%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 03:41:56

End at: 2017-11-21 03:42:26

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.933 ms

Loss rate: 1.20%

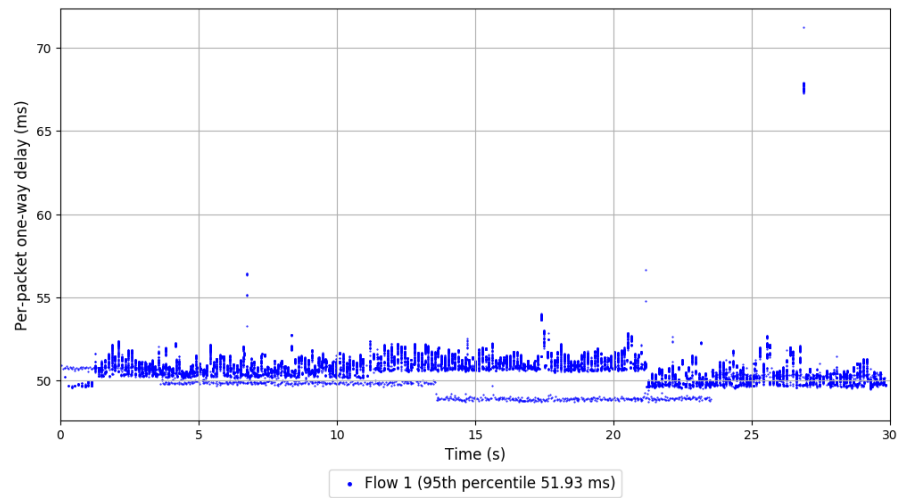
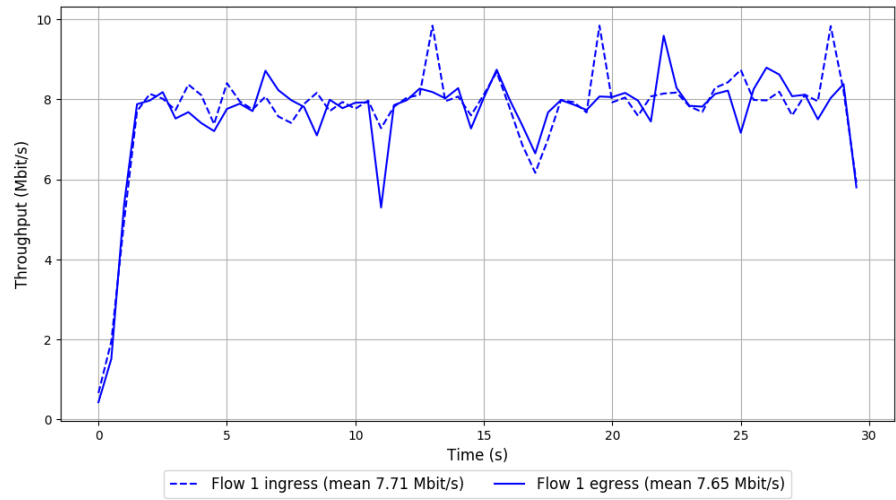
-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.933 ms

Loss rate: 1.20%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 03:52:27

End at: 2017-11-21 03:52:57

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.134 ms

Loss rate: 0.42%

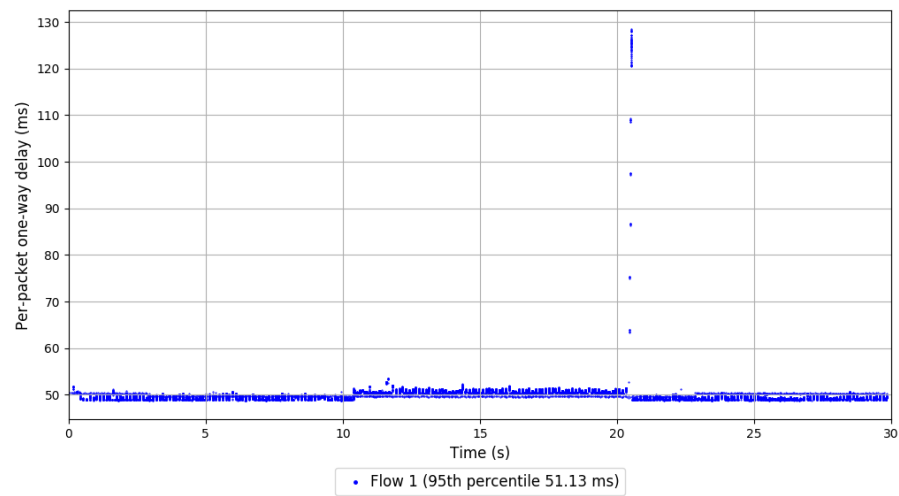
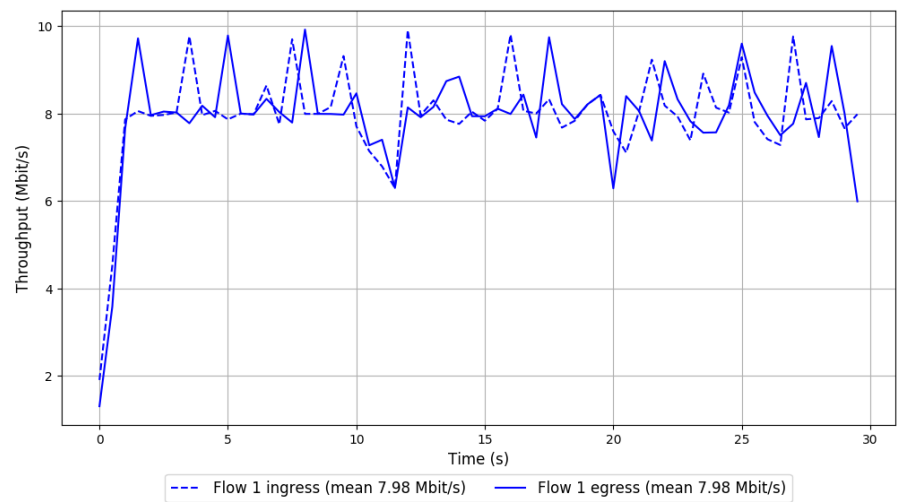
-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.134 ms

Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 04:03:03

End at: 2017-11-21 04:03:33

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.344 ms

Loss rate: 0.40%

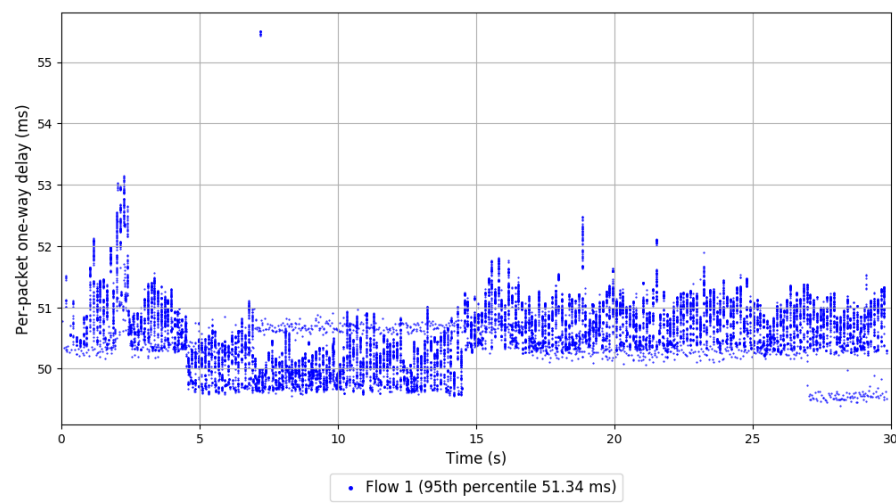
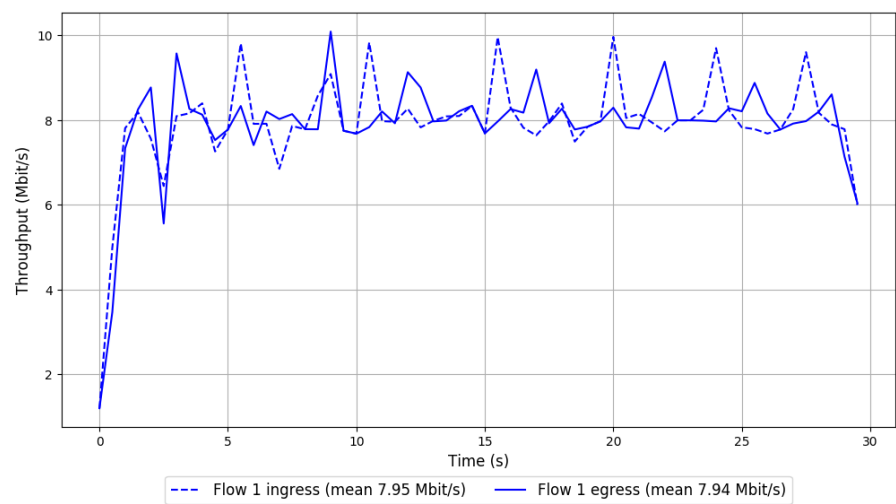
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.344 ms

Loss rate: 0.40%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 04:13:36

End at: 2017-11-21 04:14:06

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.05%

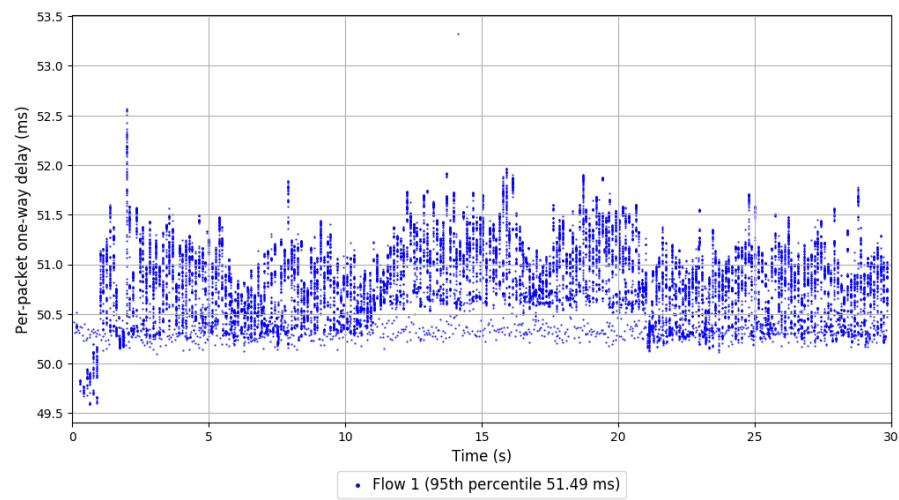
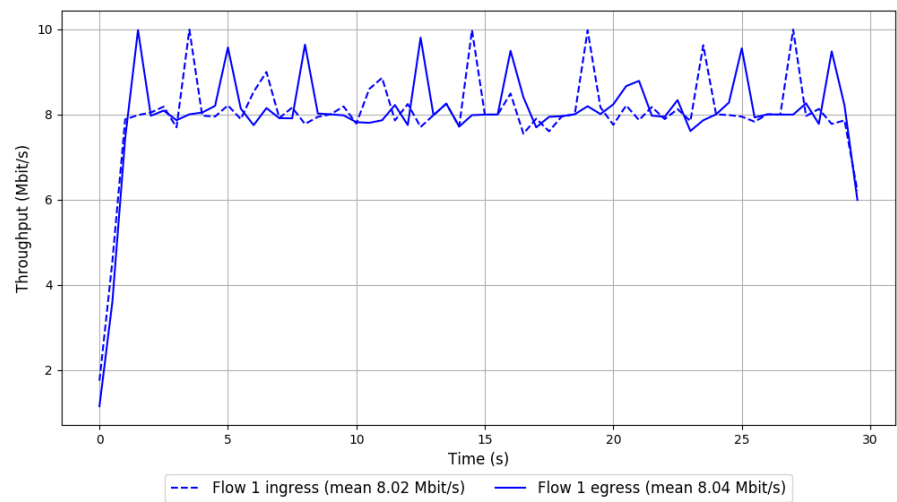
-- Flow 1:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.05%

Run 10: Report of Sprout — Data Link

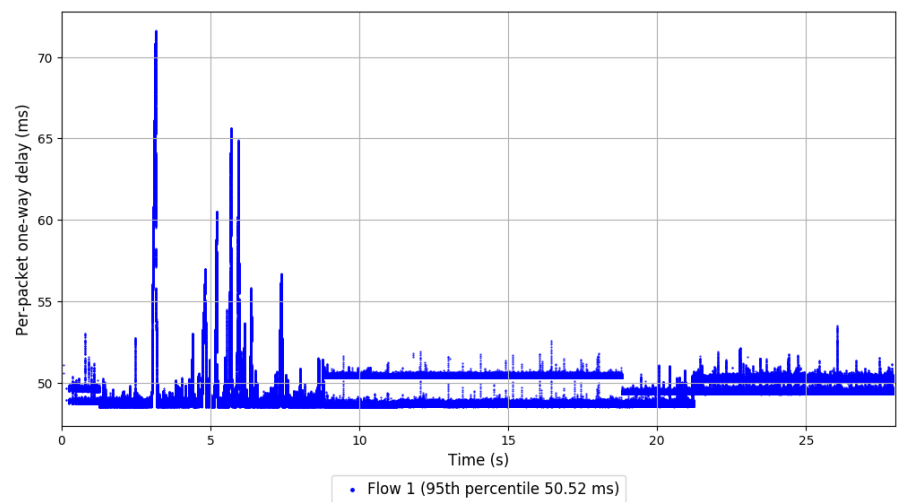
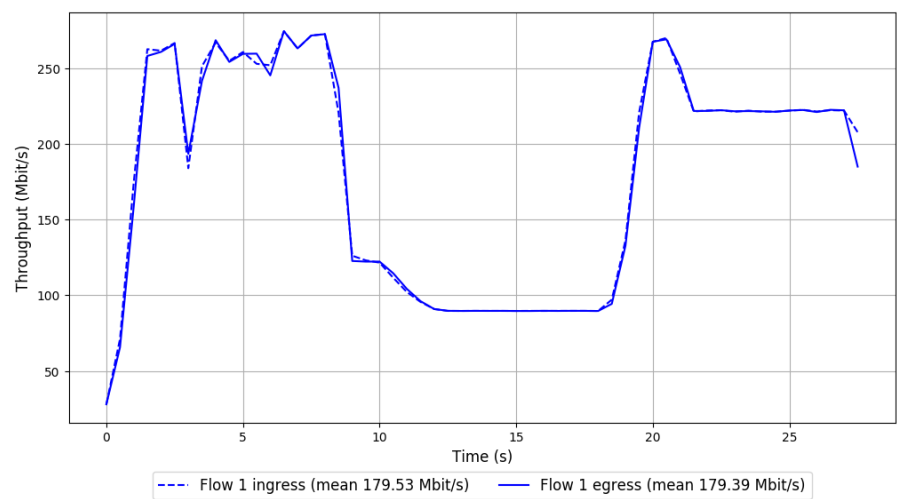


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 02:44:06
End at: 2017-11-21 02:44:36

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.39 Mbit/s
95th percentile per-packet one-way delay: 50.517 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 179.39 Mbit/s
95th percentile per-packet one-way delay: 50.517 ms
Loss rate: 0.44%
```


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

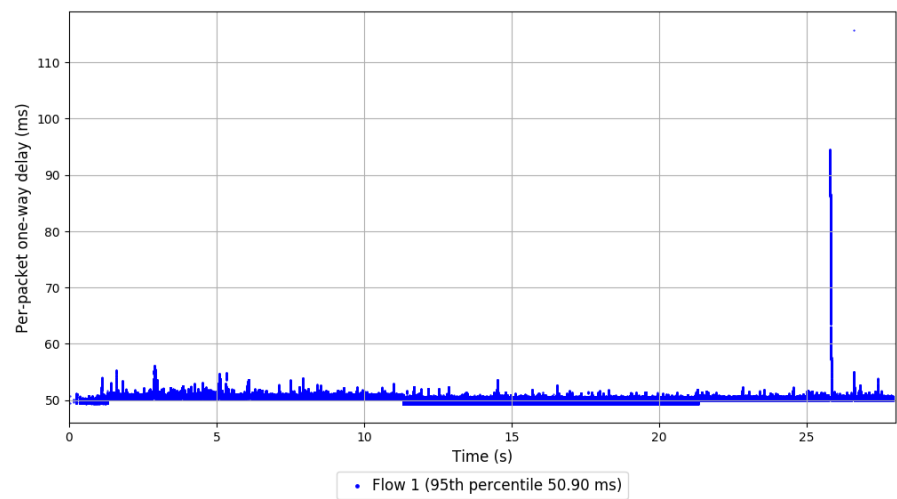
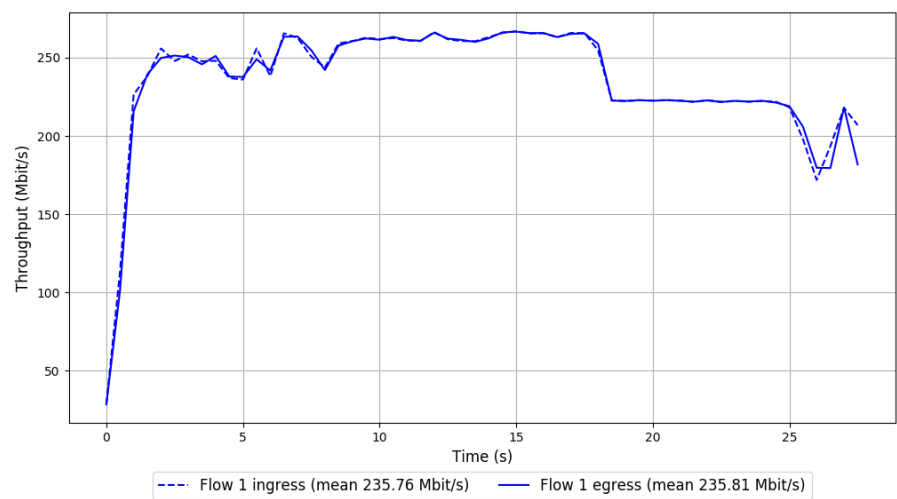


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 02:54:34
End at: 2017-11-21 02:55:04

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.81 Mbit/s
95th percentile per-packet one-way delay: 50.897 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 235.81 Mbit/s
95th percentile per-packet one-way delay: 50.897 ms
Loss rate: 0.34%
```

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

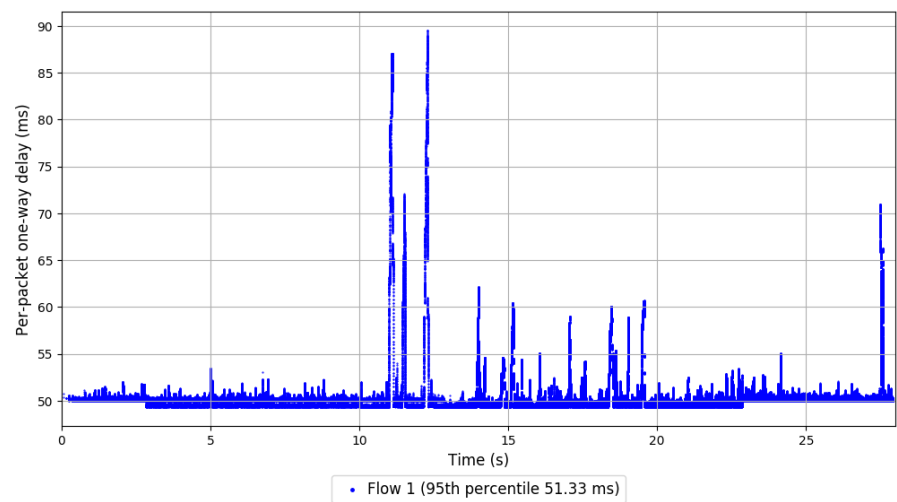
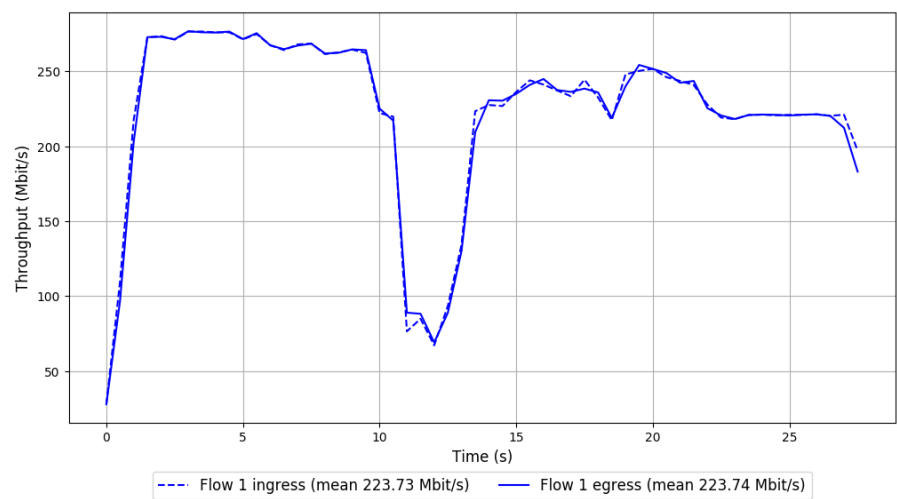


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 03:05:12
End at: 2017-11-21 03:05:42

# Below is generated by plot.py at 2017-11-21 06:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.74 Mbit/s
95th percentile per-packet one-way delay: 51.329 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 223.74 Mbit/s
95th percentile per-packet one-way delay: 51.329 ms
Loss rate: 0.36%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 03:15:47

End at: 2017-11-21 03:16:17

Below is generated by plot.py at 2017-11-21 06:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.82 Mbit/s

95th percentile per-packet one-way delay: 54.769 ms

Loss rate: 0.46%

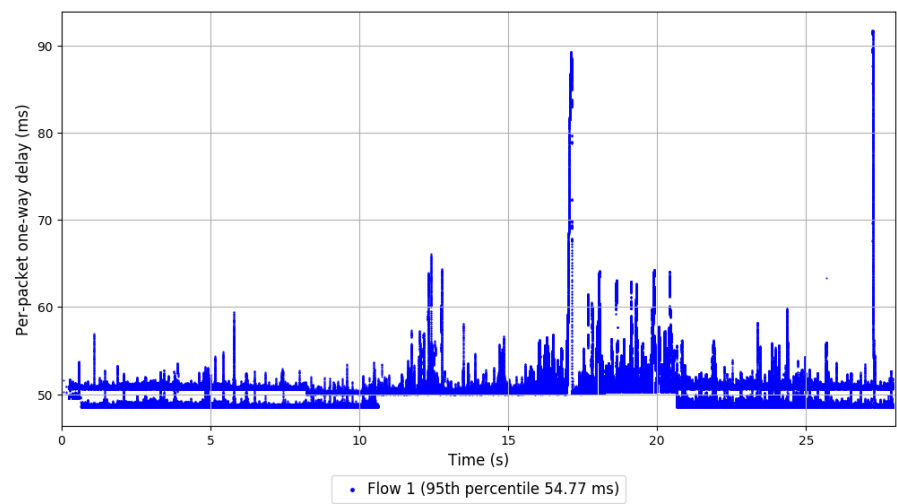
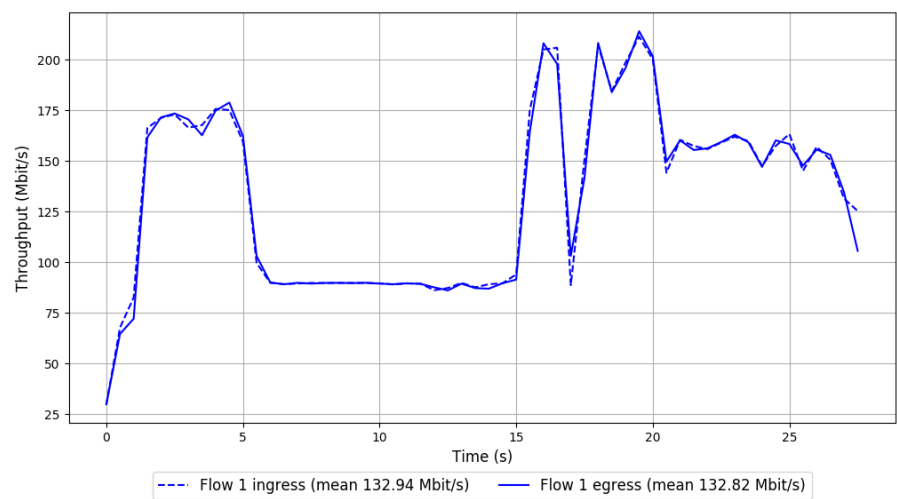
-- Flow 1:

Average throughput: 132.82 Mbit/s

95th percentile per-packet one-way delay: 54.769 ms

Loss rate: 0.46%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 03:26:04

End at: 2017-11-21 03:26:34

Below is generated by plot.py at 2017-11-21 06:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.56 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.39%

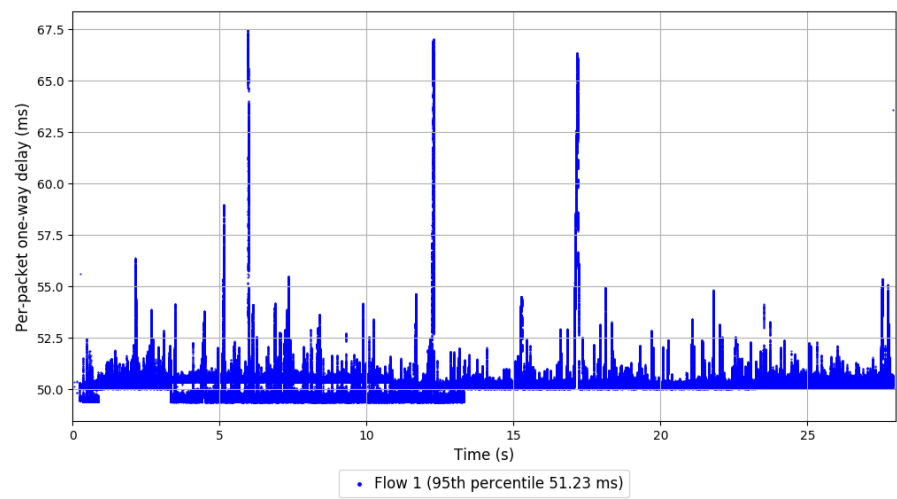
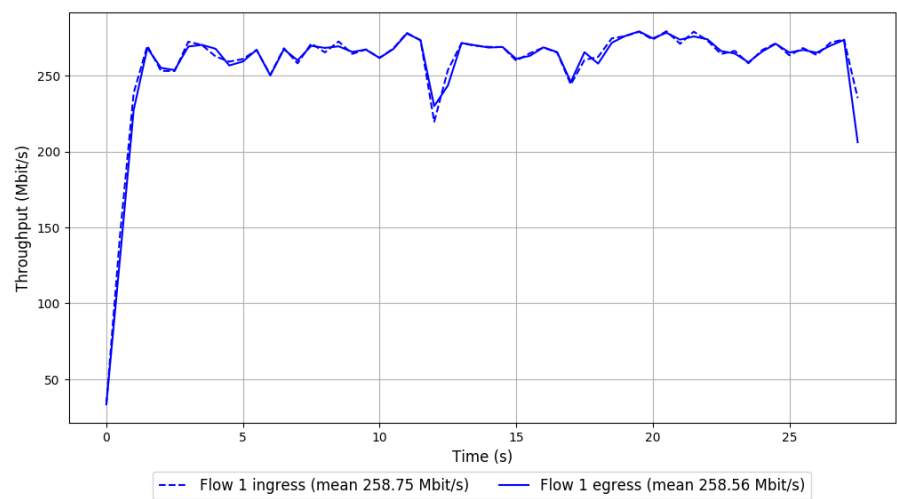
-- Flow 1:

Average throughput: 258.56 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.39%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 03:36:43

End at: 2017-11-21 03:37:14

Below is generated by plot.py at 2017-11-21 06:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.06 Mbit/s

95th percentile per-packet one-way delay: 52.019 ms

Loss rate: 0.30%

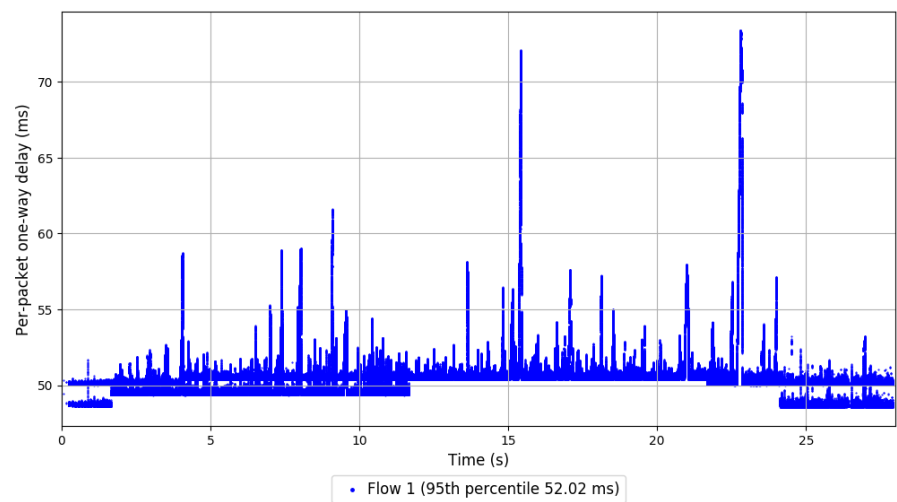
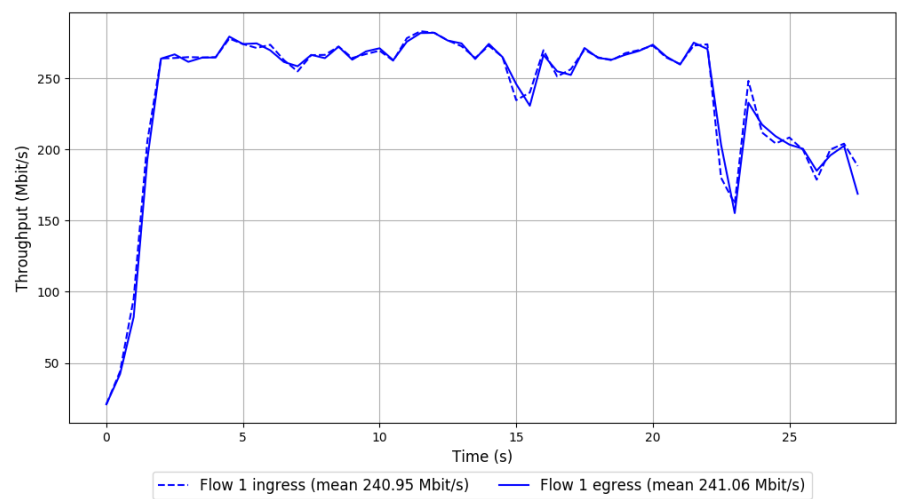
-- Flow 1:

Average throughput: 241.06 Mbit/s

95th percentile per-packet one-way delay: 52.019 ms

Loss rate: 0.30%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 03:47:18

End at: 2017-11-21 03:47:48

Below is generated by plot.py at 2017-11-21 06:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.40 Mbit/s

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

Loss rate: 0.03%

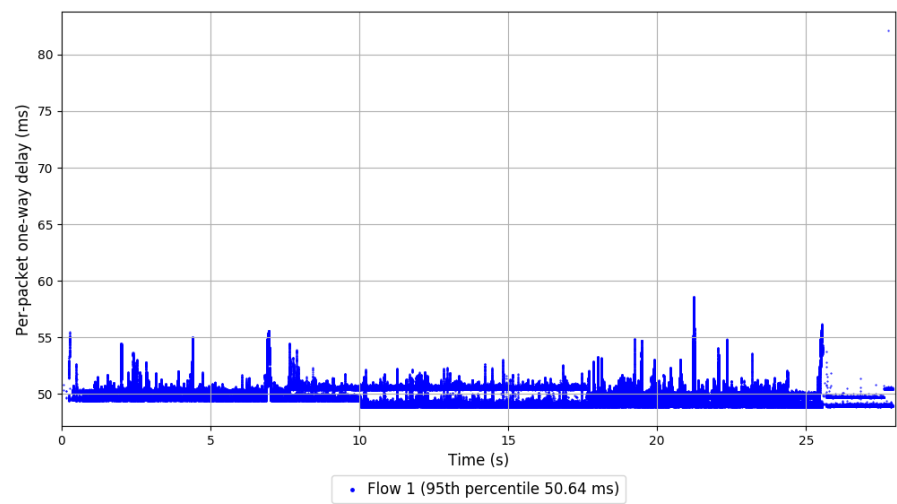
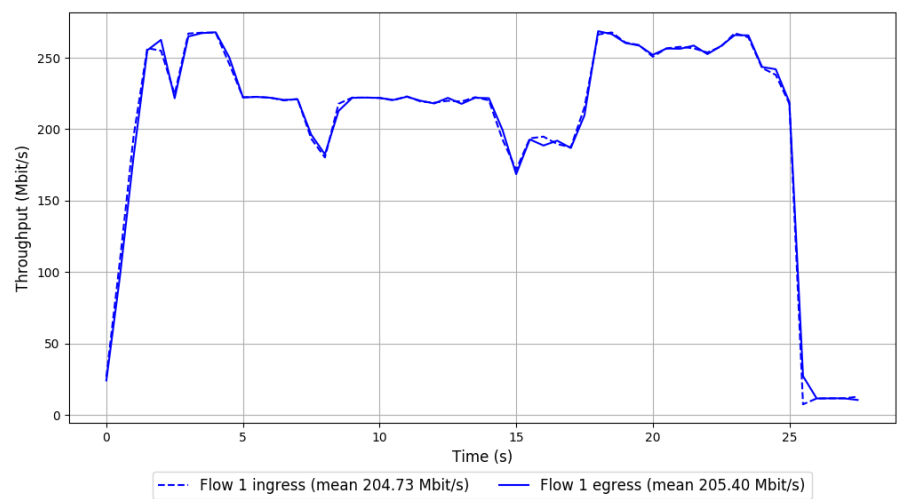
-- Flow 1:

Average throughput: 205.40 Mbit/s

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

Loss rate: 0.03%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 03:57:41

End at: 2017-11-21 03:58:12

Below is generated by plot.py at 2017-11-21 06:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.24 Mbit/s

95th percentile per-packet one-way delay: 57.402 ms

Loss rate: 0.34%

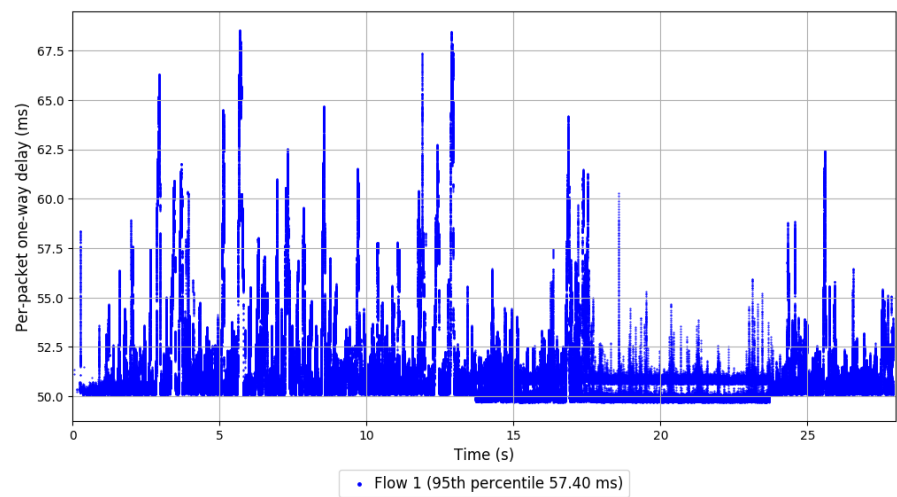
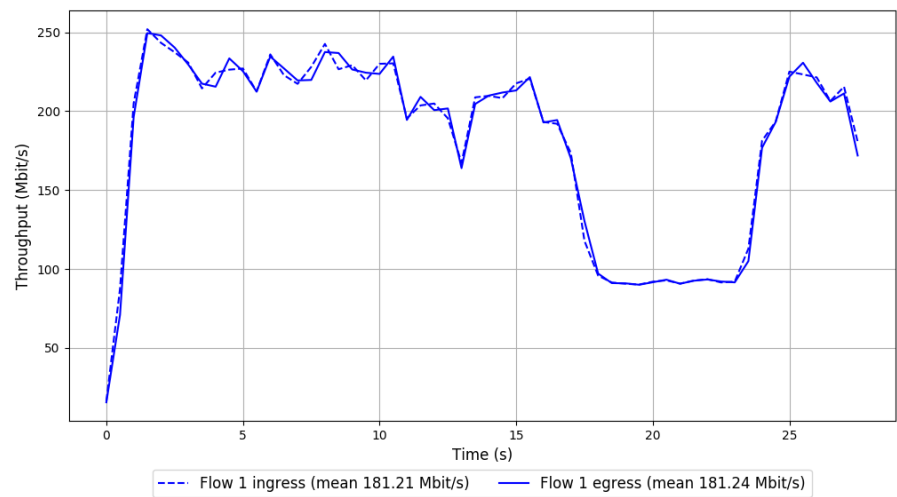
-- Flow 1:

Average throughput: 181.24 Mbit/s

95th percentile per-packet one-way delay: 57.402 ms

Loss rate: 0.34%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 04:08:19

End at: 2017-11-21 04:08:49

Below is generated by plot.py at 2017-11-21 06:45:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.06 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.45%

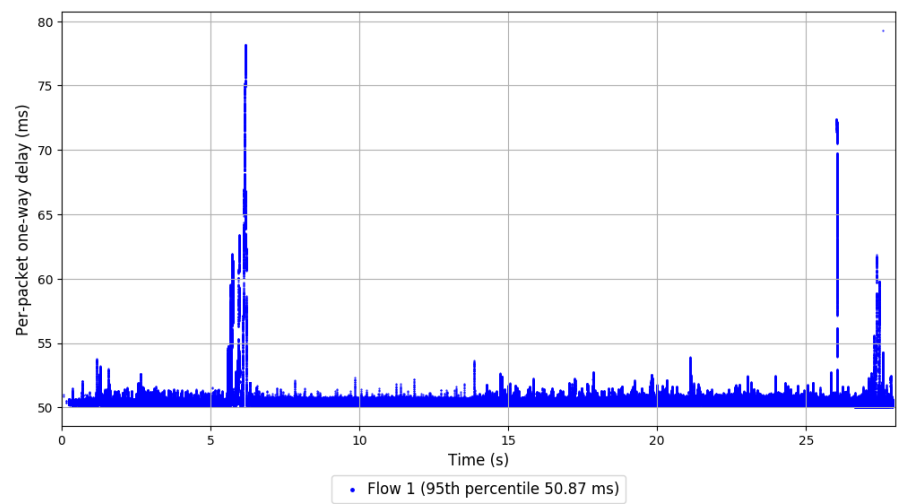
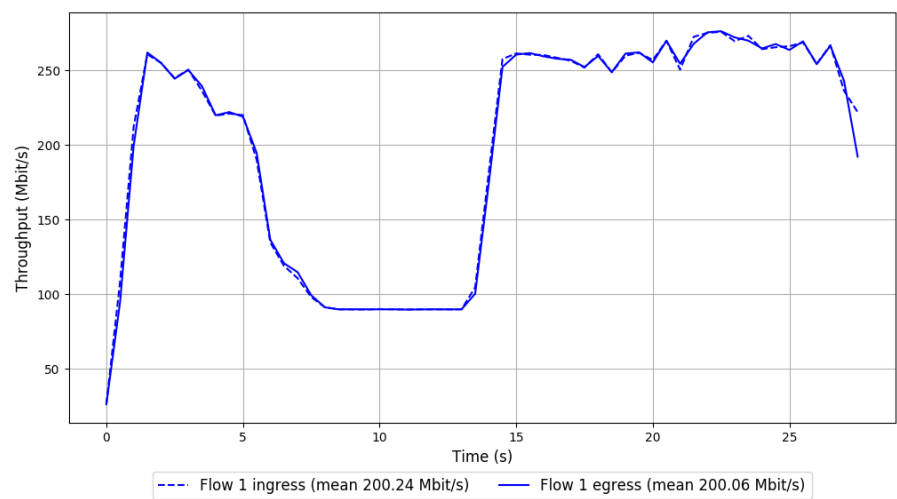
-- Flow 1:

Average throughput: 200.06 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.45%

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

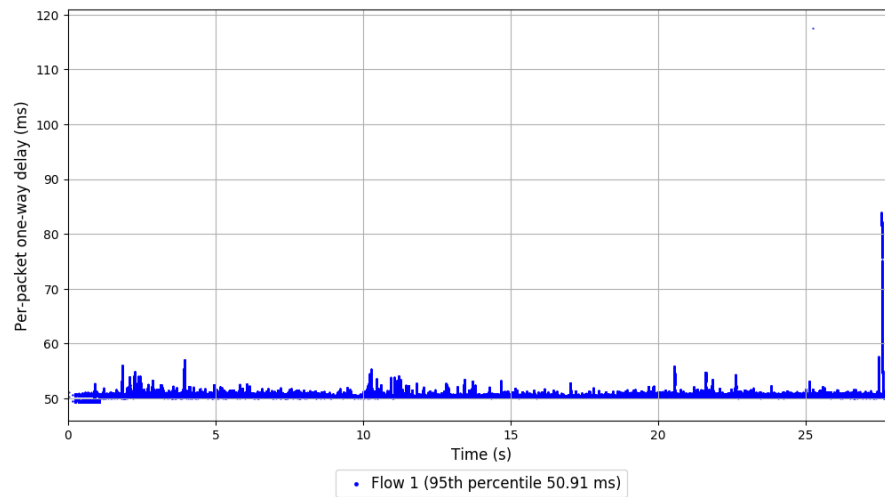
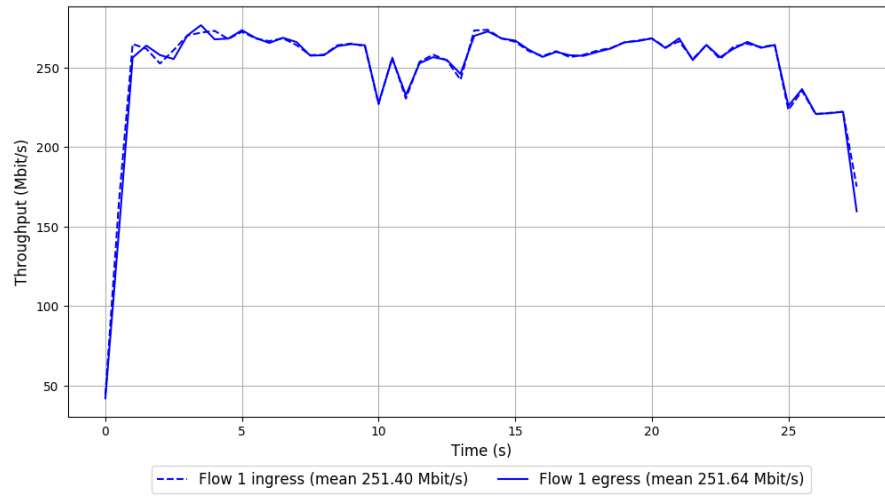


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 04:18:57
End at: 2017-11-21 04:19:27

# Below is generated by plot.py at 2017-11-21 06:48:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.64 Mbit/s
95th percentile per-packet one-way delay: 50.909 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 251.64 Mbit/s
95th percentile per-packet one-way delay: 50.909 ms
Loss rate: 0.27%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 02:44:59

End at: 2017-11-21 02:45:29

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.24 Mbit/s

95th percentile per-packet one-way delay: 56.426 ms

Loss rate: 0.25%

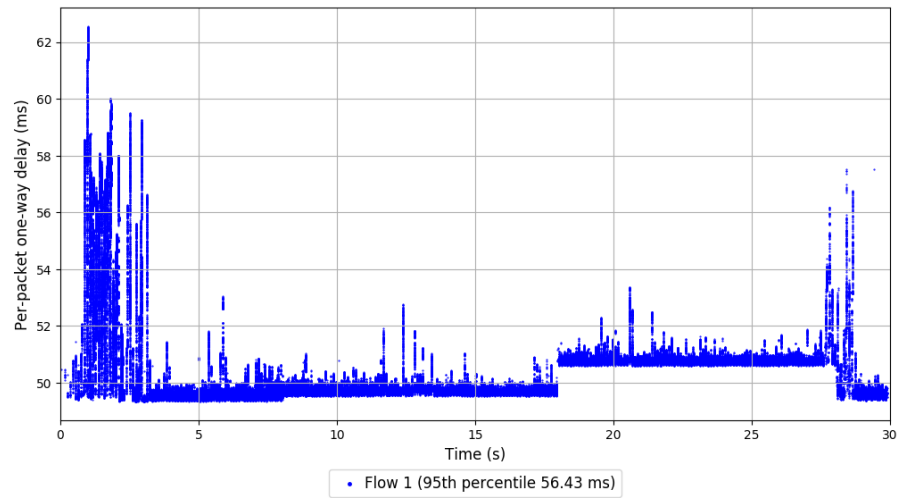
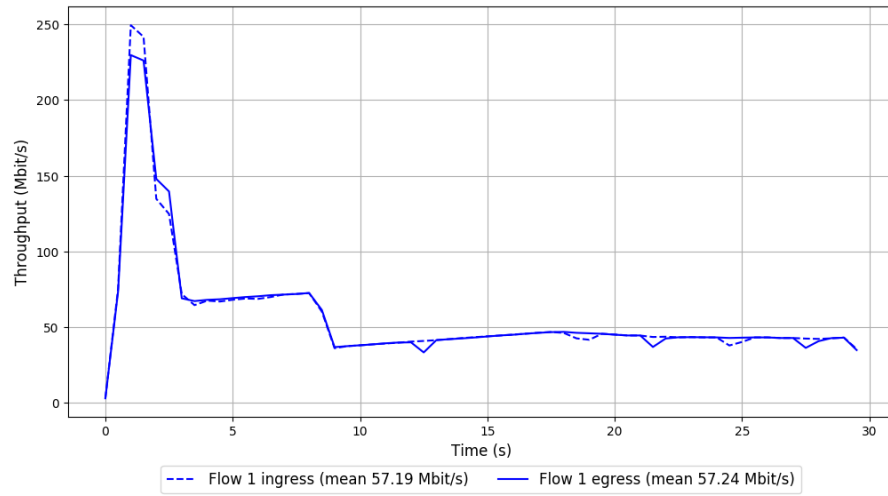
-- Flow 1:

Average throughput: 57.24 Mbit/s

95th percentile per-packet one-way delay: 56.426 ms

Loss rate: 0.25%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 02:55:32

End at: 2017-11-21 02:56:02

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 0.31%

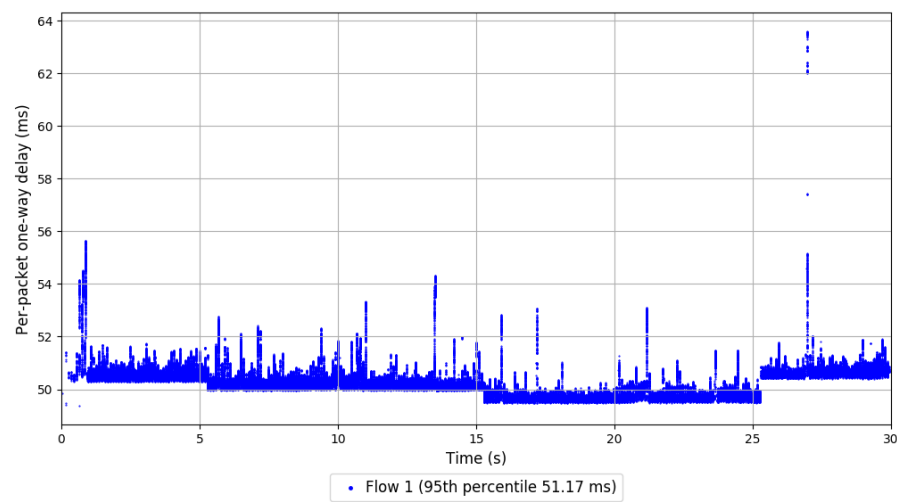
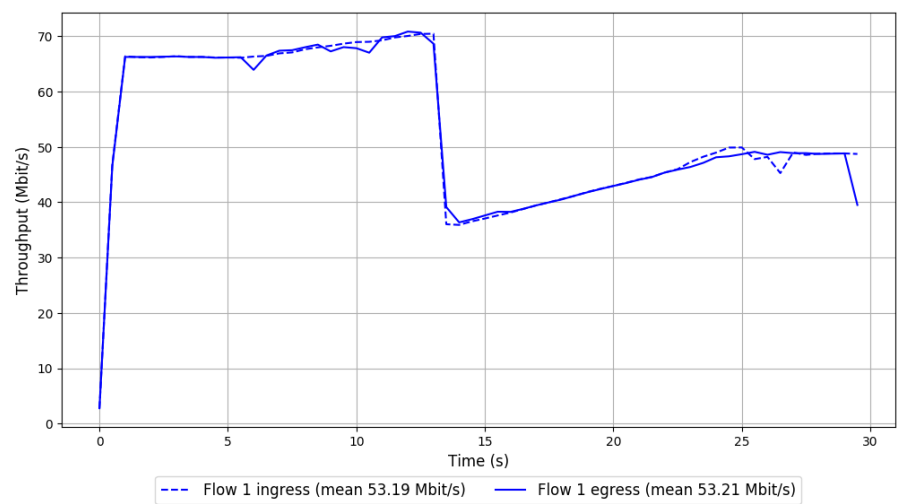
-- Flow 1:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 0.31%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 03:06:09

End at: 2017-11-21 03:06:39

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.77 Mbit/s

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

Loss rate: 0.21%

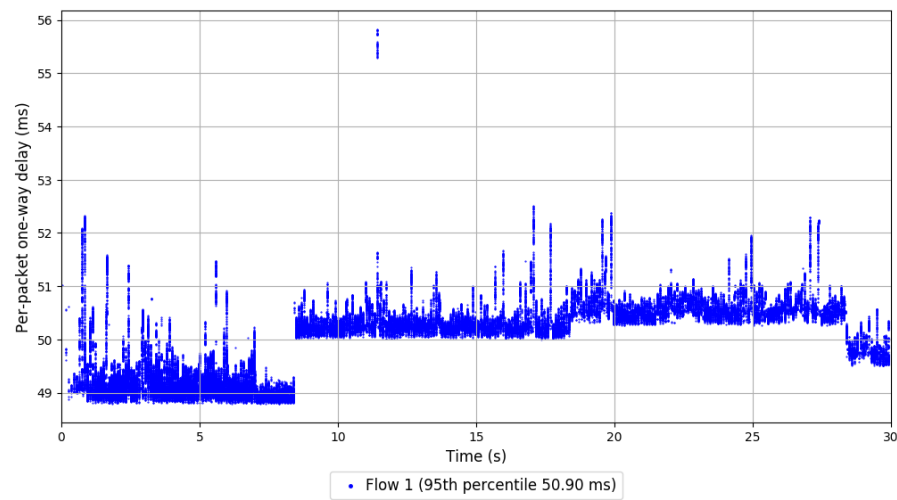
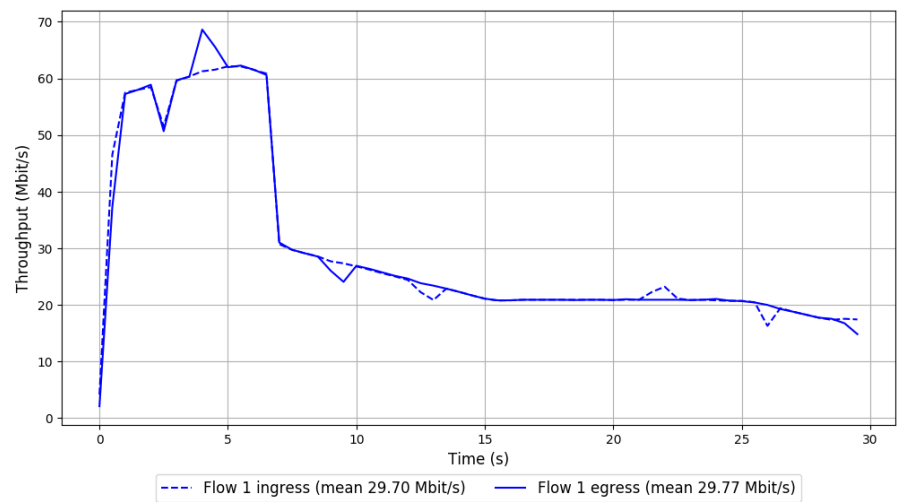
-- Flow 1:

Average throughput: 29.77 Mbit/s

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

Loss rate: 0.21%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 03:16:38

End at: 2017-11-21 03:17:08

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 54.959 ms

Loss rate: 0.27%

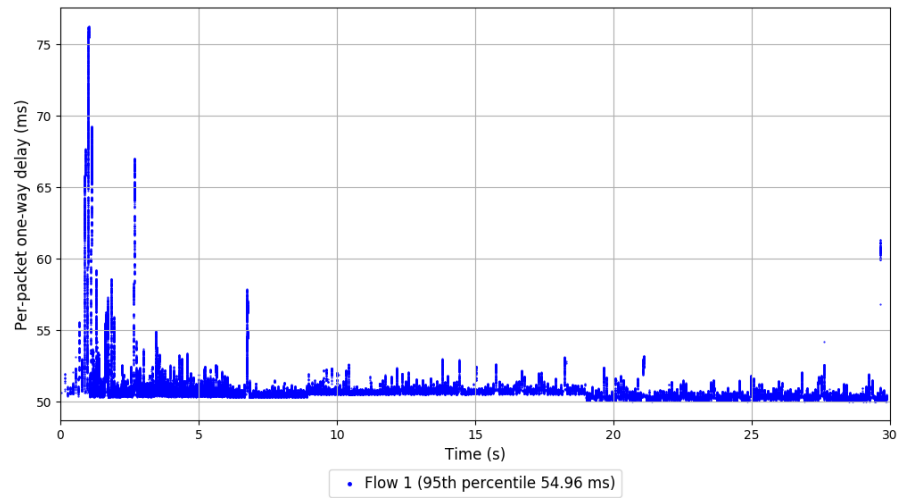
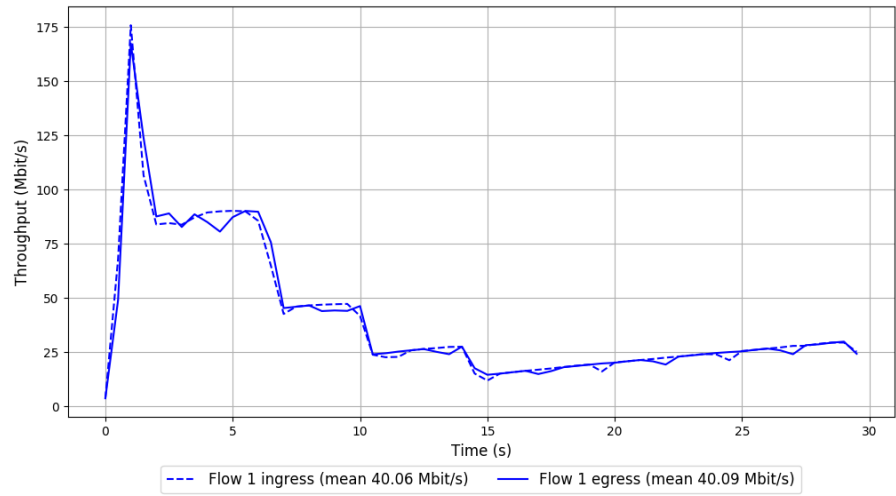
-- Flow 1:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 54.959 ms

Loss rate: 0.27%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 03:27:05

End at: 2017-11-21 03:27:35

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.00 Mbit/s

95th percentile per-packet one-way delay: 51.373 ms

Loss rate: 0.14%

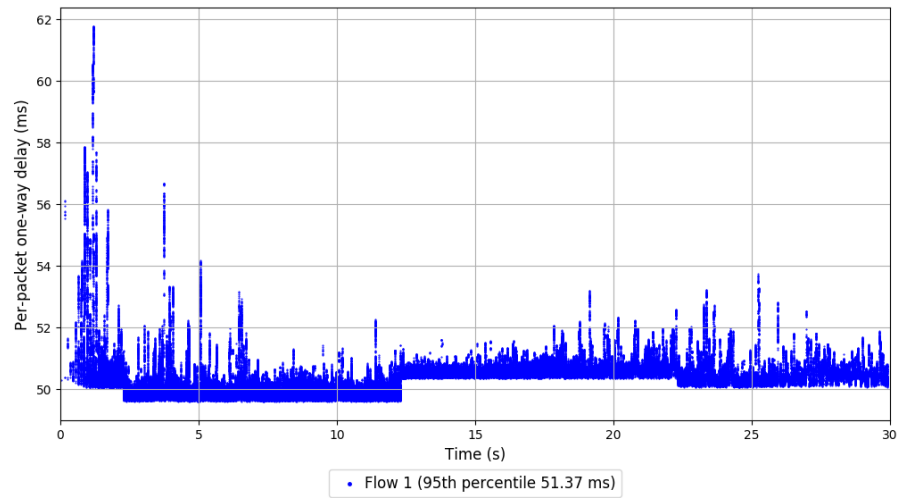
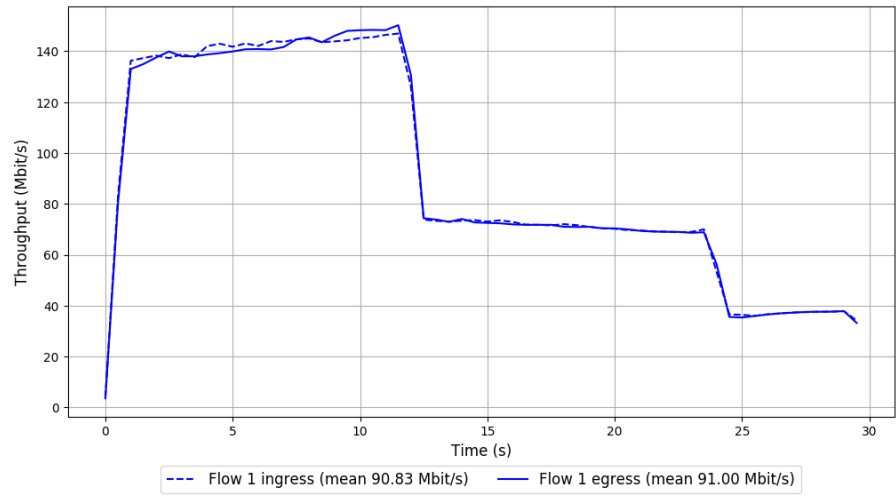
-- Flow 1:

Average throughput: 91.00 Mbit/s

95th percentile per-packet one-way delay: 51.373 ms

Loss rate: 0.14%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 03:37:42

End at: 2017-11-21 03:38:12

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 51.182 ms

Loss rate: 0.14%

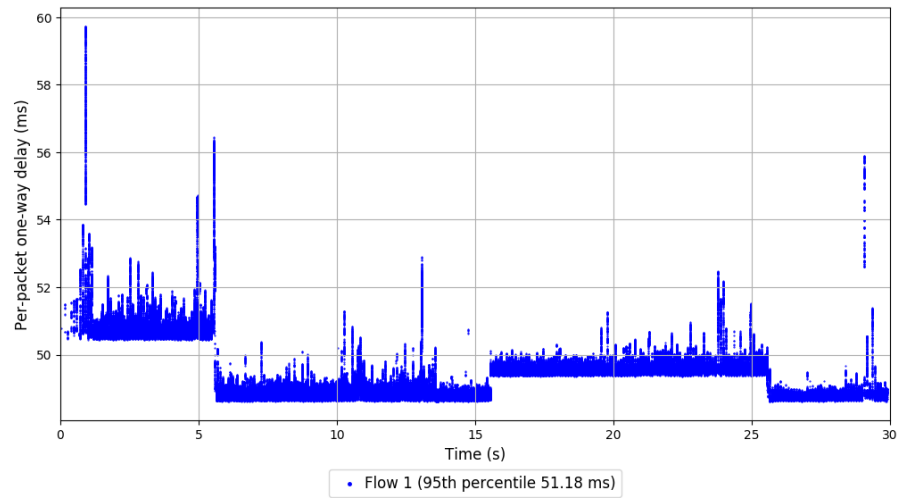
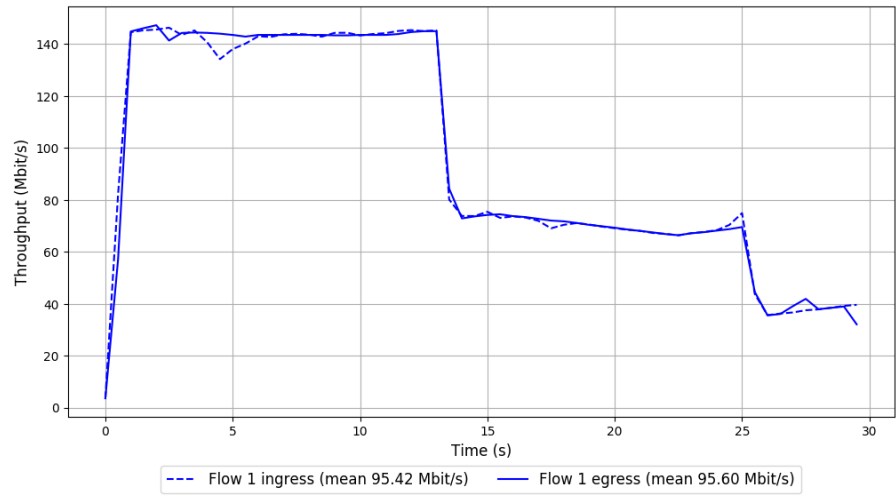
-- Flow 1:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 51.182 ms

Loss rate: 0.14%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 03:48:13

End at: 2017-11-21 03:48:43

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 51.969 ms

Loss rate: 0.34%

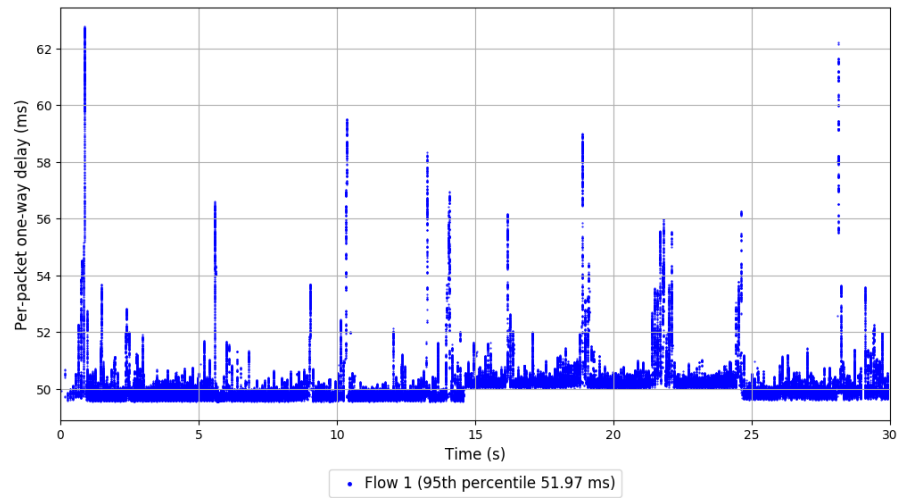
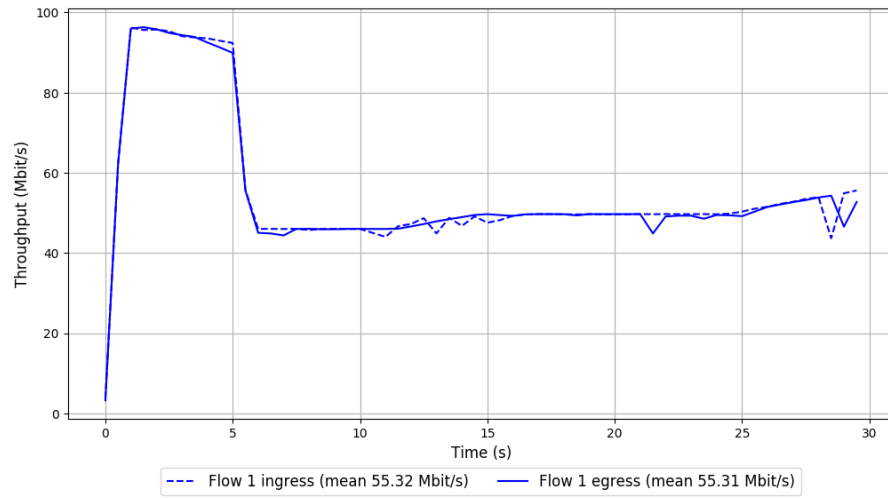
-- Flow 1:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 51.969 ms

Loss rate: 0.34%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 03:58:36

End at: 2017-11-21 03:59:06

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.10 Mbit/s

95th percentile per-packet one-way delay: 50.929 ms

Loss rate: 0.21%

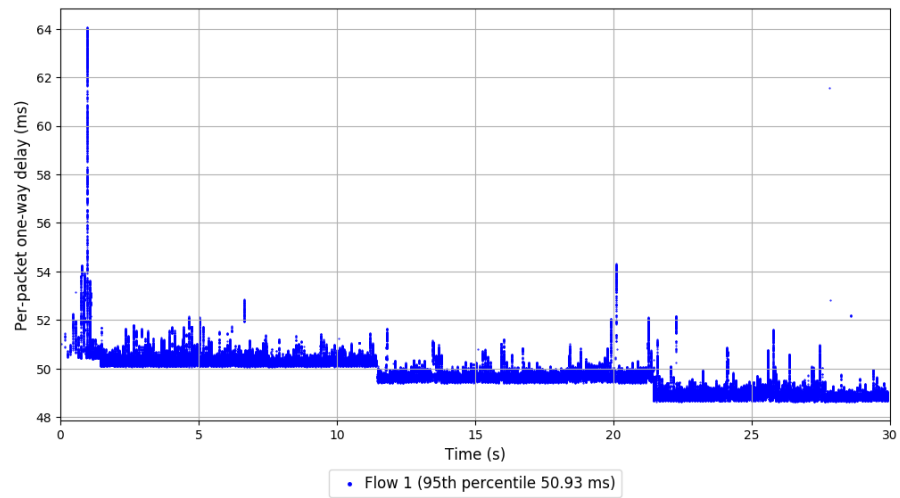
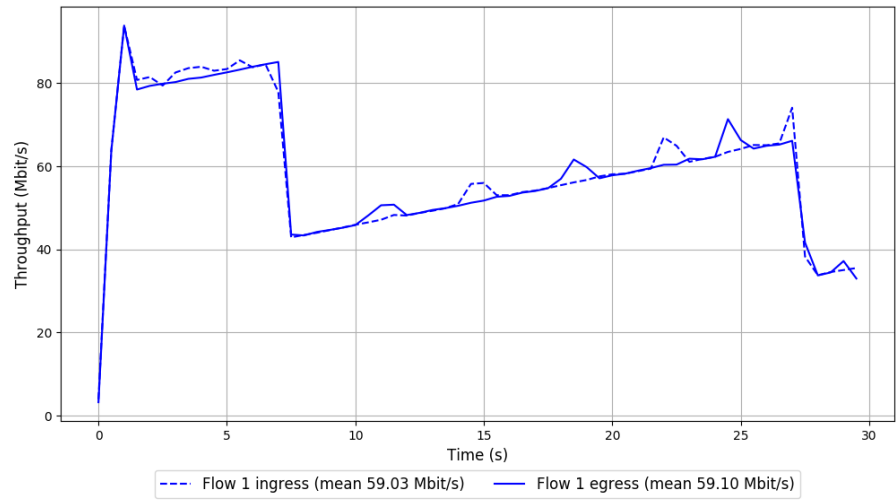
-- Flow 1:

Average throughput: 59.10 Mbit/s

95th percentile per-packet one-way delay: 50.929 ms

Loss rate: 0.21%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 04:09:13

End at: 2017-11-21 04:09:43

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.83 Mbit/s

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

Loss rate: 0.10%

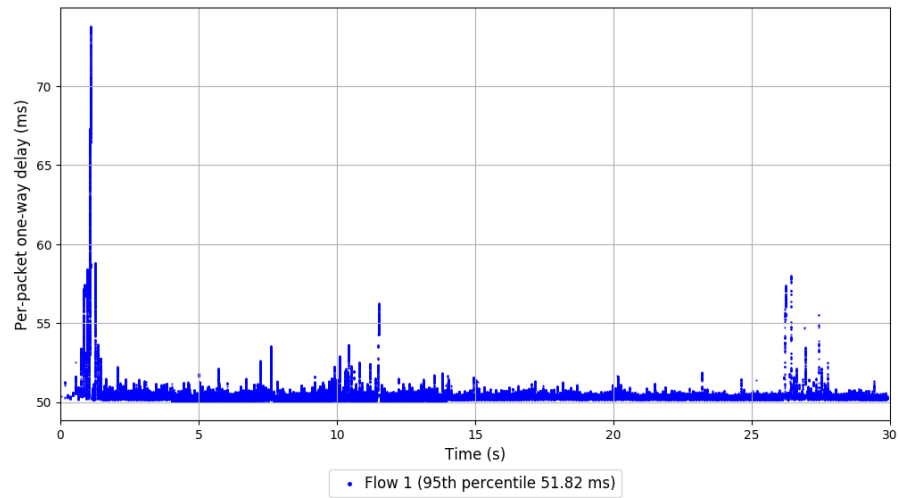
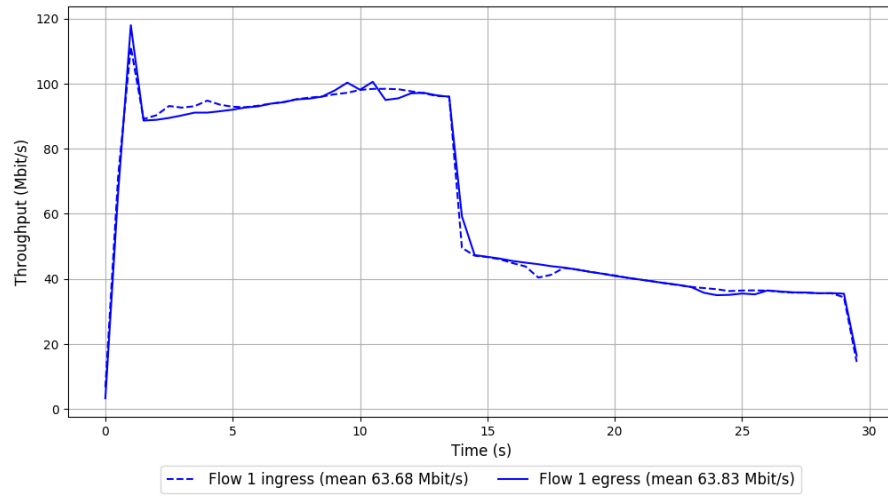
-- Flow 1:

Average throughput: 63.83 Mbit/s

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

Loss rate: 0.10%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 04:19:56

End at: 2017-11-21 04:20:26

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.45 Mbit/s

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

Loss rate: 0.44%

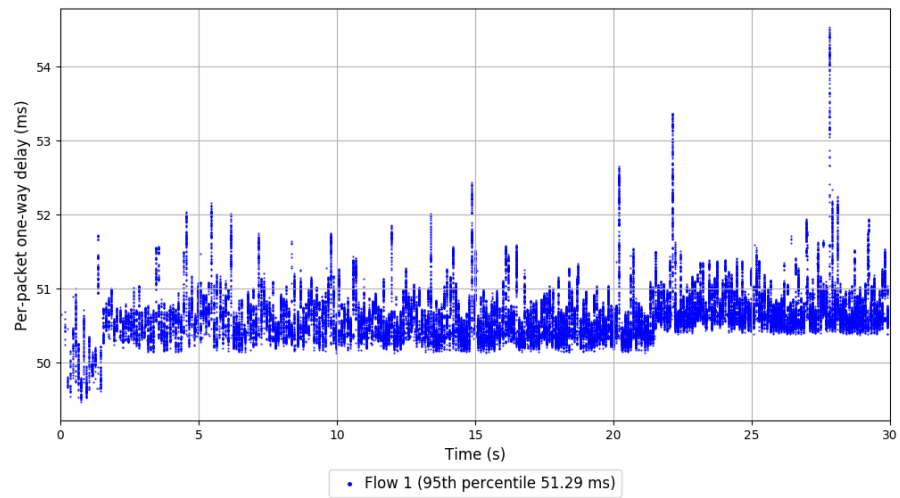
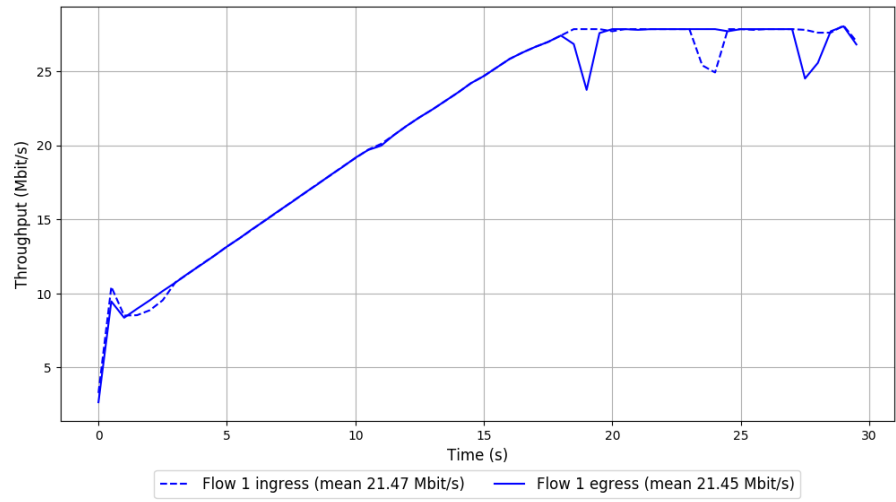
-- Flow 1:

Average throughput: 21.45 Mbit/s

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

Loss rate: 0.44%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-21 02:47:44

End at: 2017-11-21 02:48:14

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.46 Mbit/s

95th percentile per-packet one-way delay: 76.303 ms

Loss rate: 1.36%

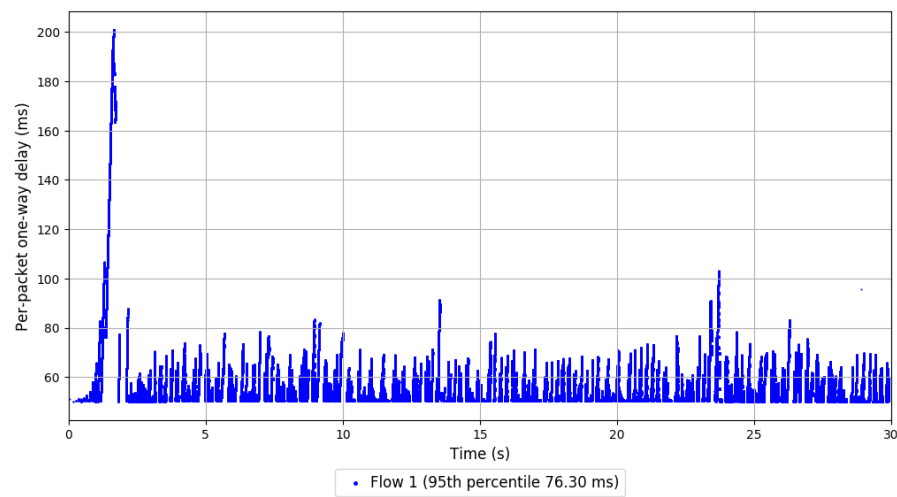
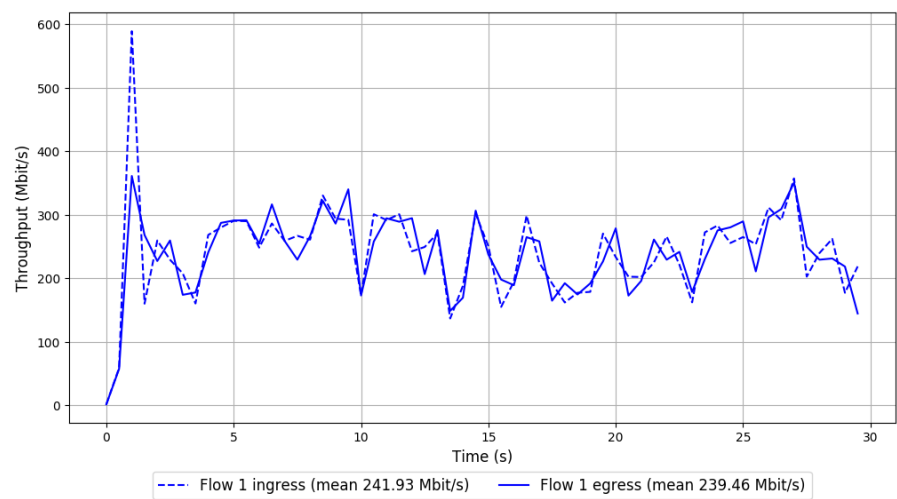
-- Flow 1:

Average throughput: 239.46 Mbit/s

95th percentile per-packet one-way delay: 76.303 ms

Loss rate: 1.36%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 02:58:19

End at: 2017-11-21 02:58:49

Below is generated by plot.py at 2017-11-21 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.82 Mbit/s

95th percentile per-packet one-way delay: 87.025 ms

Loss rate: 0.50%

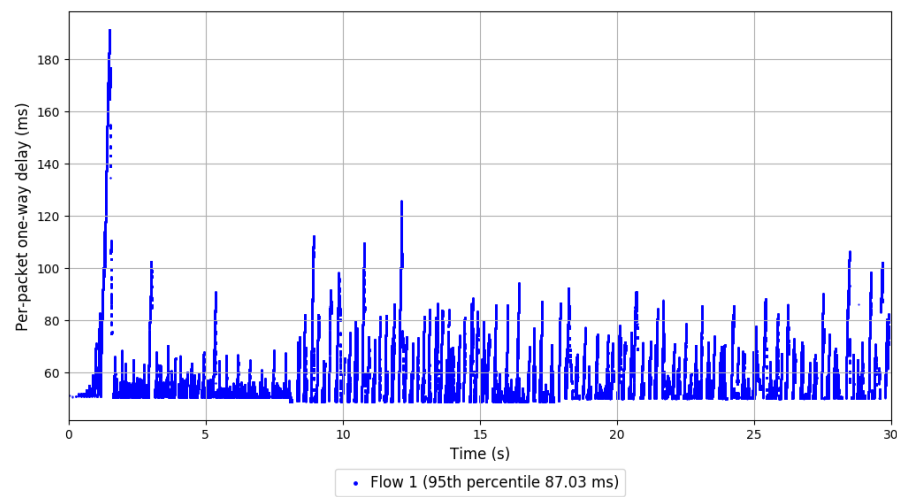
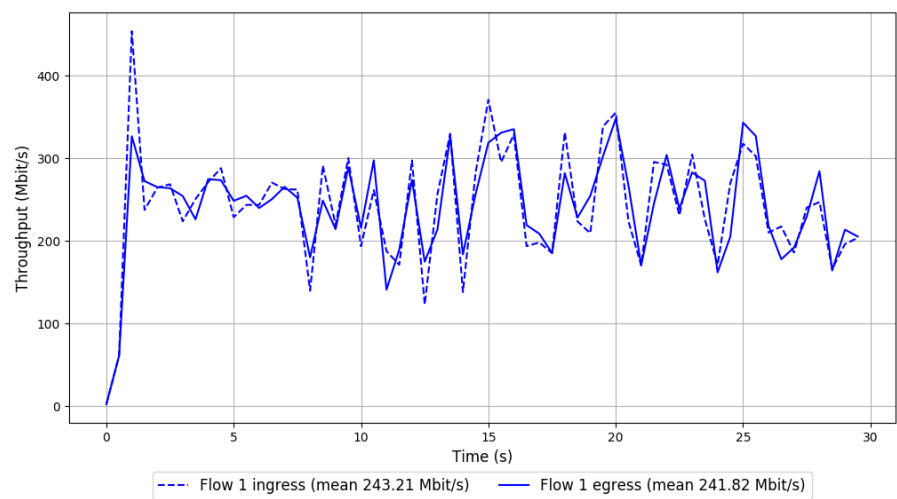
-- Flow 1:

Average throughput: 241.82 Mbit/s

95th percentile per-packet one-way delay: 87.025 ms

Loss rate: 0.50%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 03:08:51

End at: 2017-11-21 03:09:21

Below is generated by plot.py at 2017-11-21 06:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.42 Mbit/s

95th percentile per-packet one-way delay: 96.794 ms

Loss rate: 0.84%

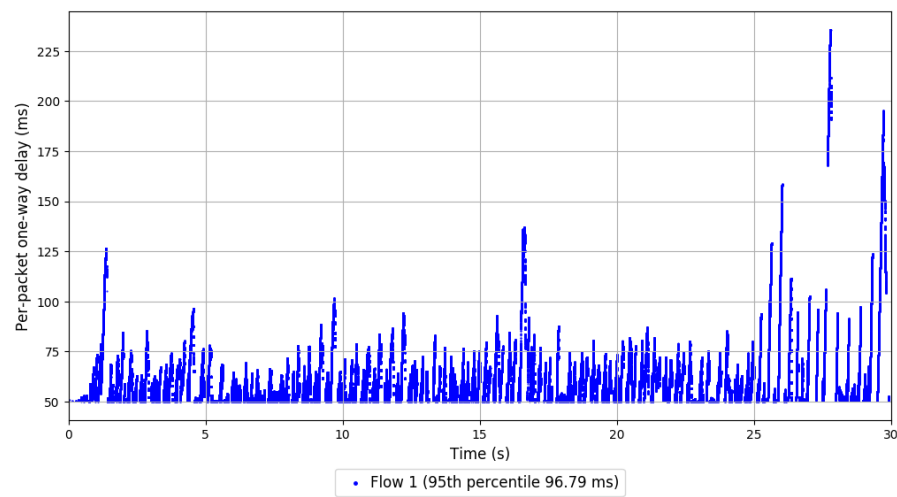
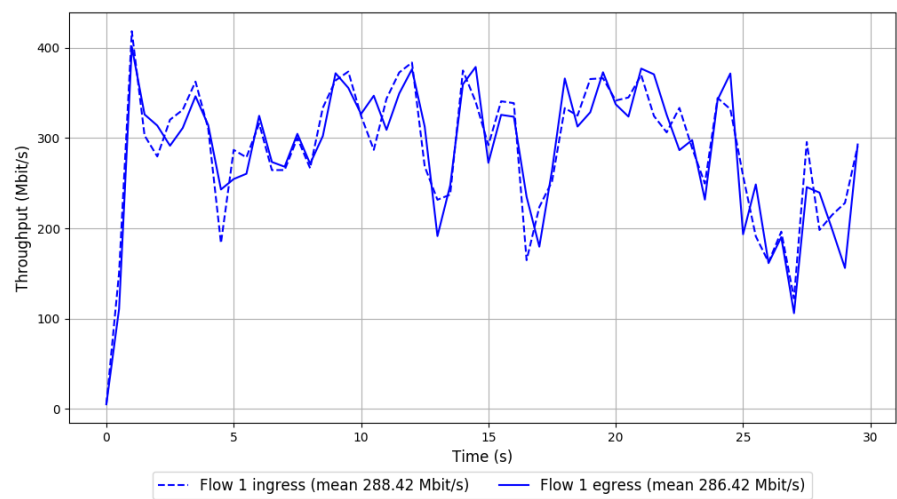
-- Flow 1:

Average throughput: 286.42 Mbit/s

95th percentile per-packet one-way delay: 96.794 ms

Loss rate: 0.84%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 03:19:20

End at: 2017-11-21 03:19:50

Below is generated by plot.py at 2017-11-21 06:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.54 Mbit/s

95th percentile per-packet one-way delay: 69.670 ms

Loss rate: 1.36%

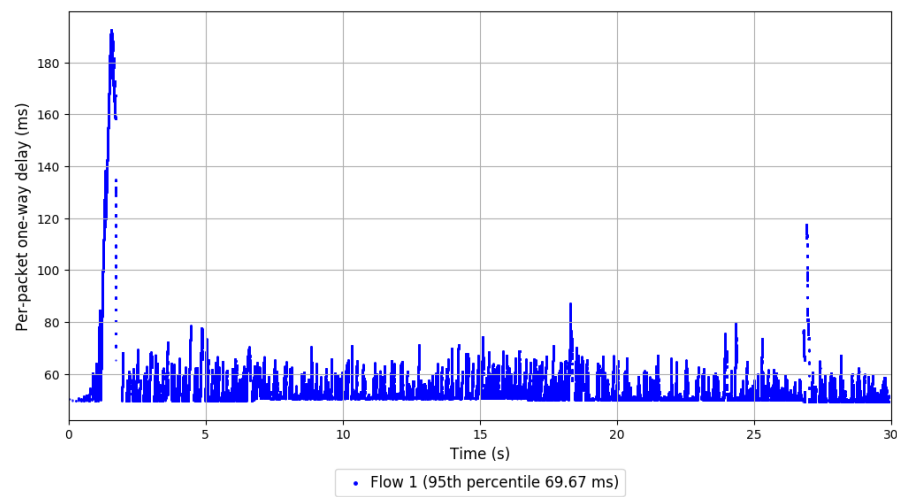
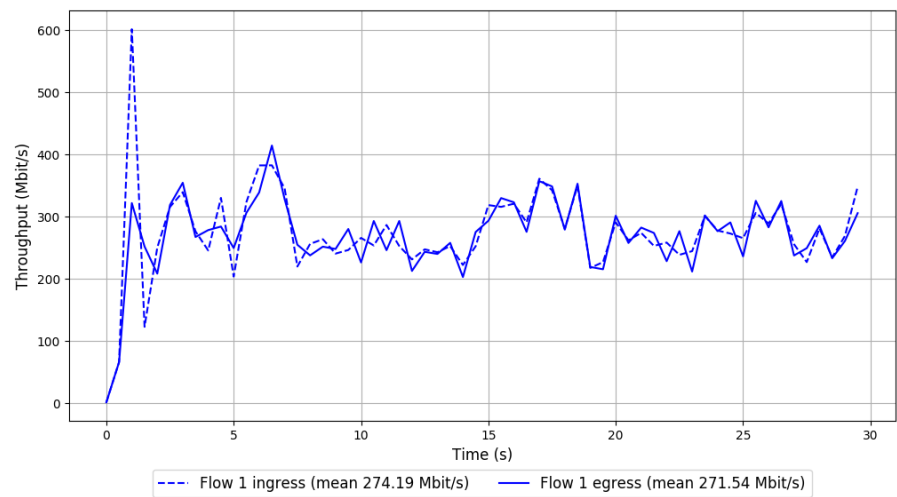
-- Flow 1:

Average throughput: 271.54 Mbit/s

95th percentile per-packet one-way delay: 69.670 ms

Loss rate: 1.36%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 03:29:51

End at: 2017-11-21 03:30:21

Below is generated by plot.py at 2017-11-21 06:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.38 Mbit/s

95th percentile per-packet one-way delay: 91.488 ms

Loss rate: 1.03%

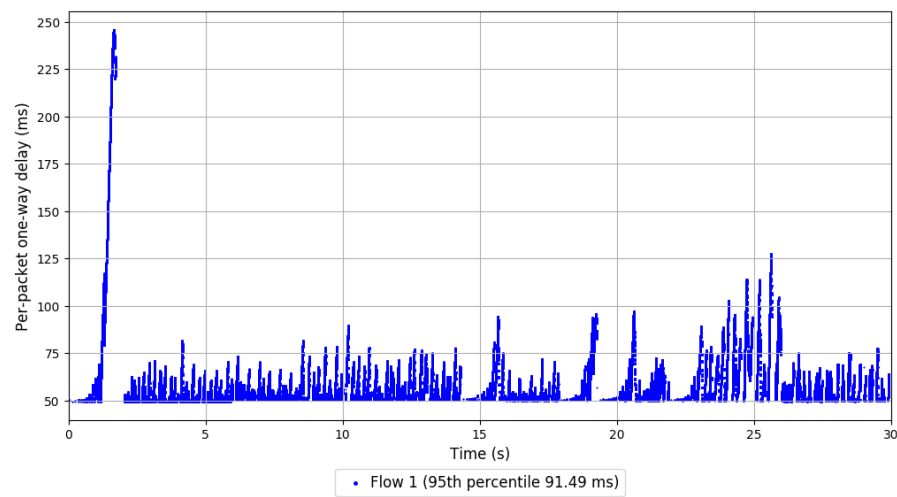
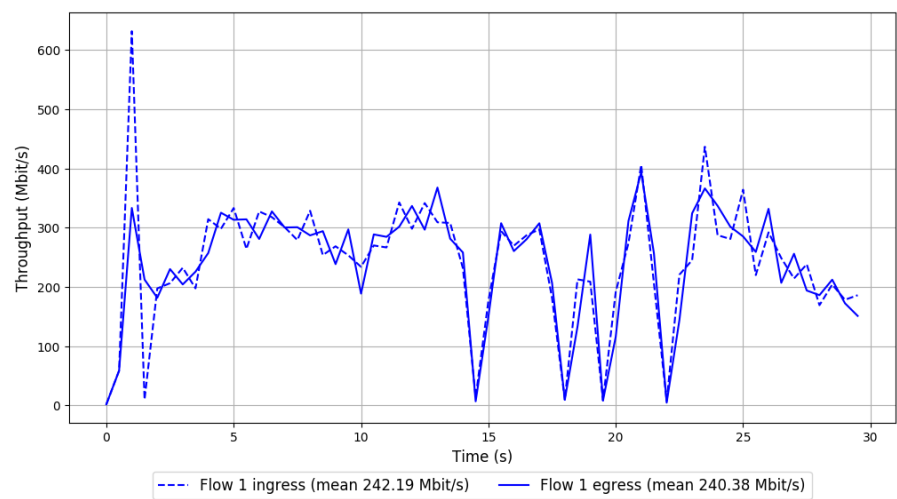
-- Flow 1:

Average throughput: 240.38 Mbit/s

95th percentile per-packet one-way delay: 91.488 ms

Loss rate: 1.03%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 03:40:27

End at: 2017-11-21 03:40:57

Below is generated by plot.py at 2017-11-21 06:48:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.48 Mbit/s

95th percentile per-packet one-way delay: 75.684 ms

Loss rate: 0.52%

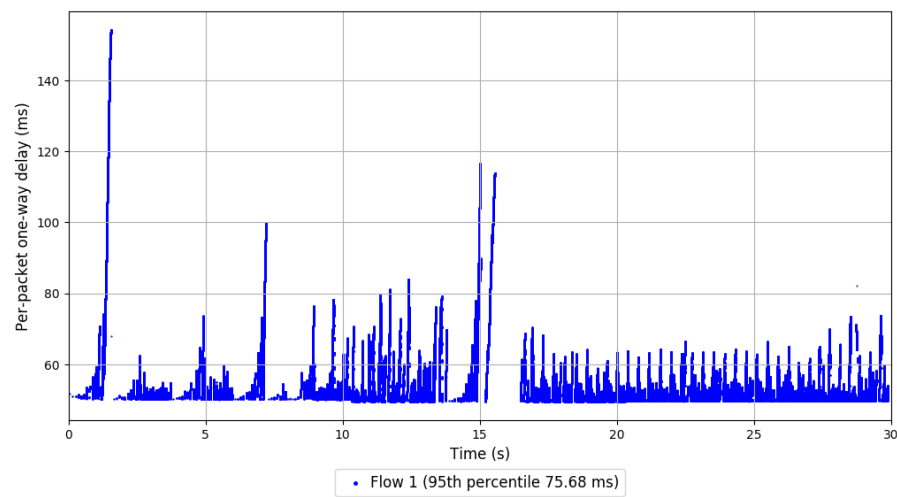
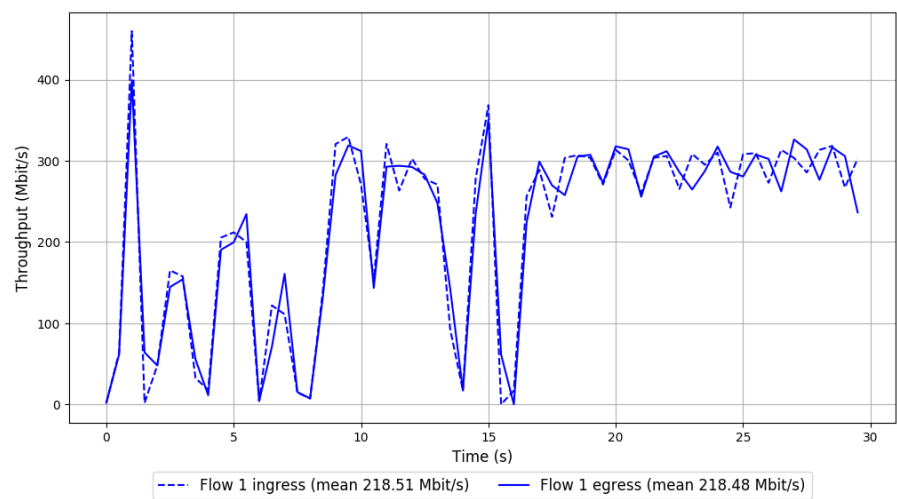
-- Flow 1:

Average throughput: 218.48 Mbit/s

95th percentile per-packet one-way delay: 75.684 ms

Loss rate: 0.52%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 03:50:57

End at: 2017-11-21 03:51:27

Below is generated by plot.py at 2017-11-21 06:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.42 Mbit/s

95th percentile per-packet one-way delay: 102.507 ms

Loss rate: 1.91%

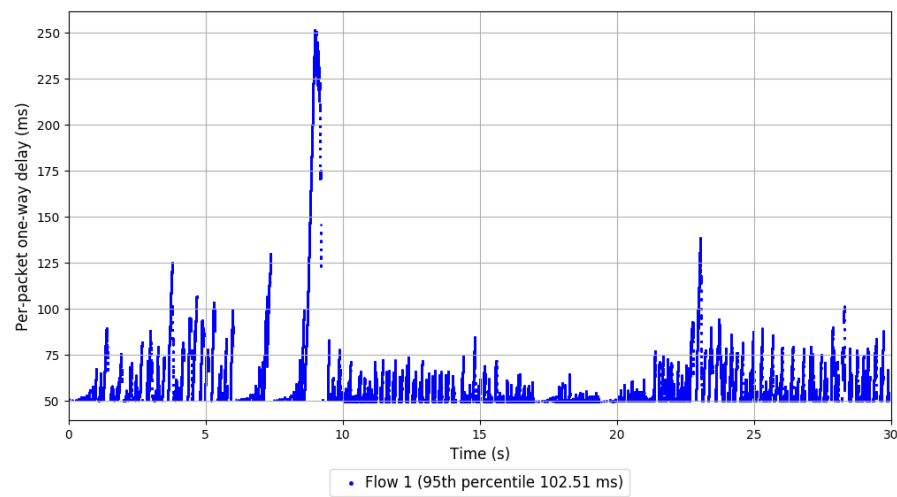
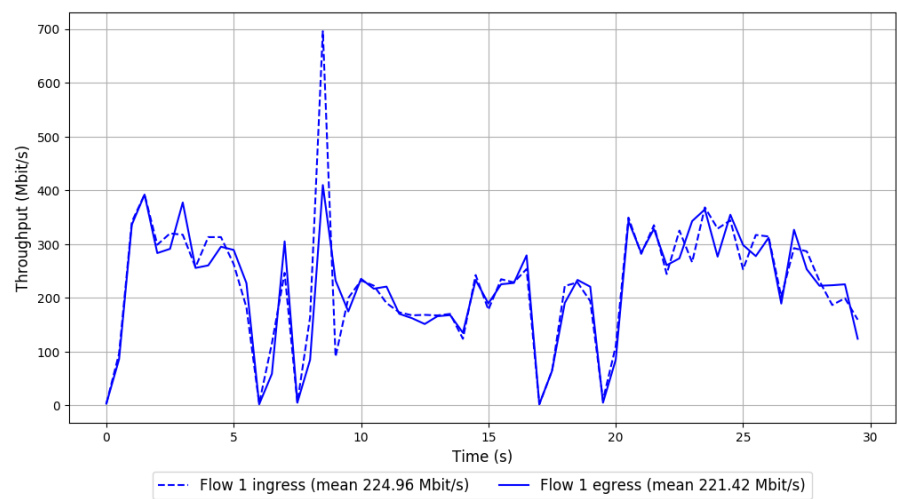
-- Flow 1:

Average throughput: 221.42 Mbit/s

95th percentile per-packet one-way delay: 102.507 ms

Loss rate: 1.91%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 04:01:24

End at: 2017-11-21 04:01:54

Below is generated by plot.py at 2017-11-21 06:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.05 Mbit/s

95th percentile per-packet one-way delay: 102.649 ms

Loss rate: 1.48%

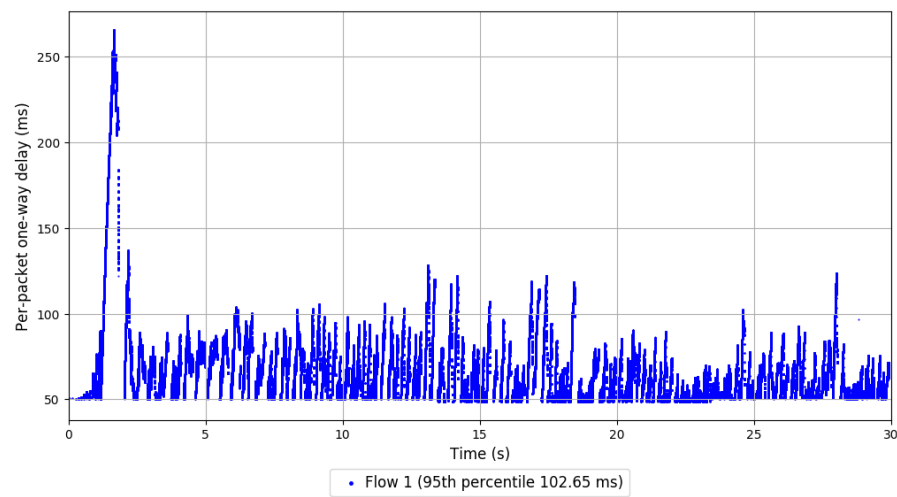
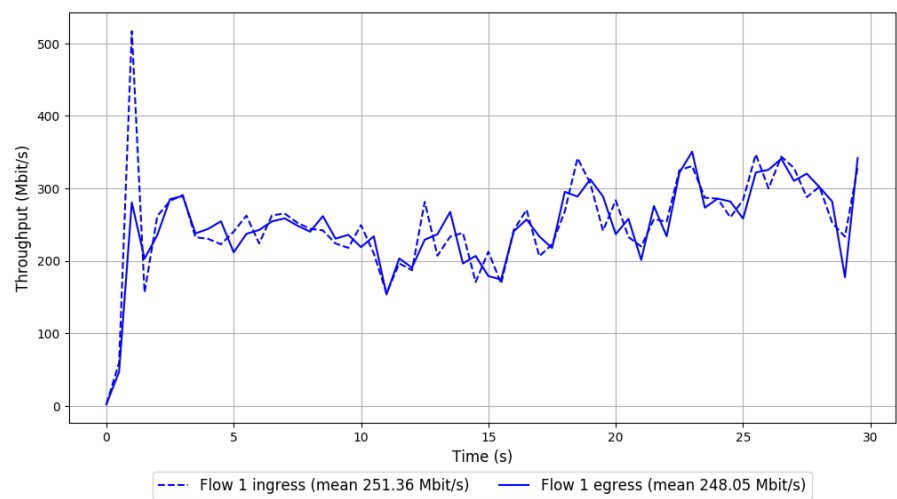
-- Flow 1:

Average throughput: 248.05 Mbit/s

95th percentile per-packet one-way delay: 102.649 ms

Loss rate: 1.48%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 04:11:57

End at: 2017-11-21 04:12:27

Below is generated by plot.py at 2017-11-21 06:53:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.13 Mbit/s

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

Loss rate: 5.71%

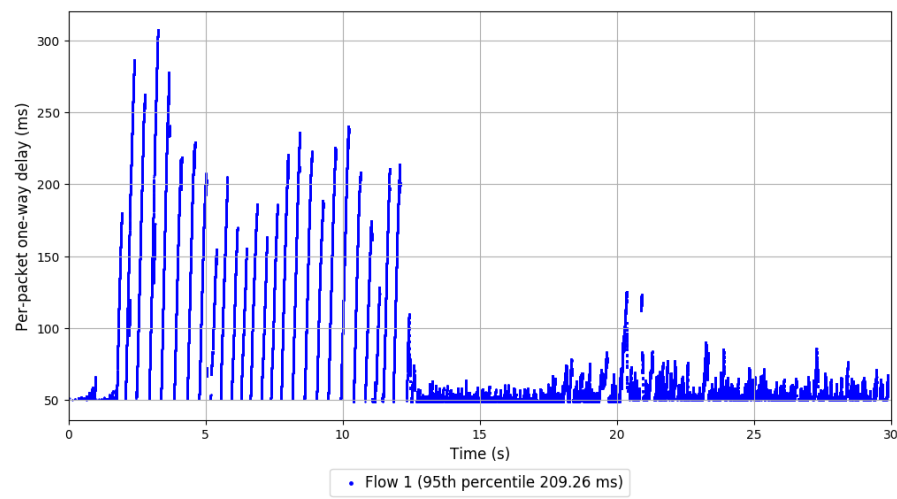
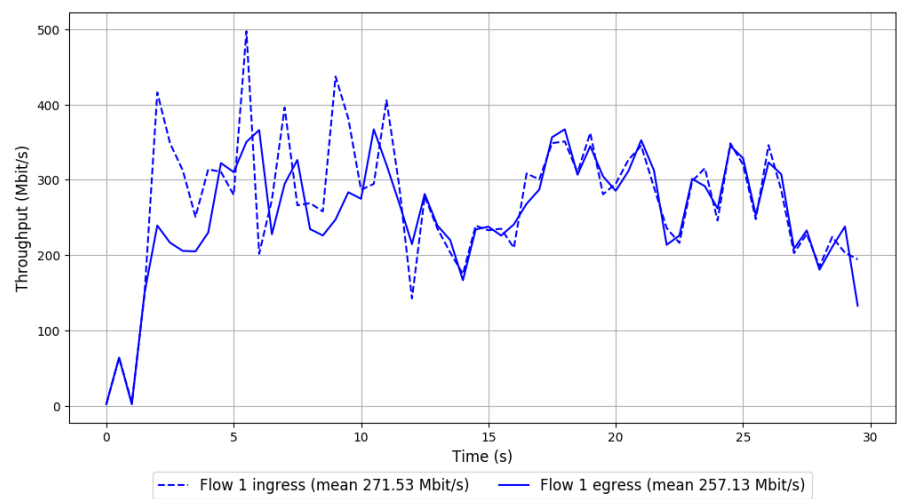
-- Flow 1:

Average throughput: 257.13 Mbit/s

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

Loss rate: 5.71%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 04:22:36

End at: 2017-11-21 04:23:06

Below is generated by plot.py at 2017-11-21 06:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.57 Mbit/s

95th percentile per-packet one-way delay: 72.771 ms

Loss rate: 0.96%

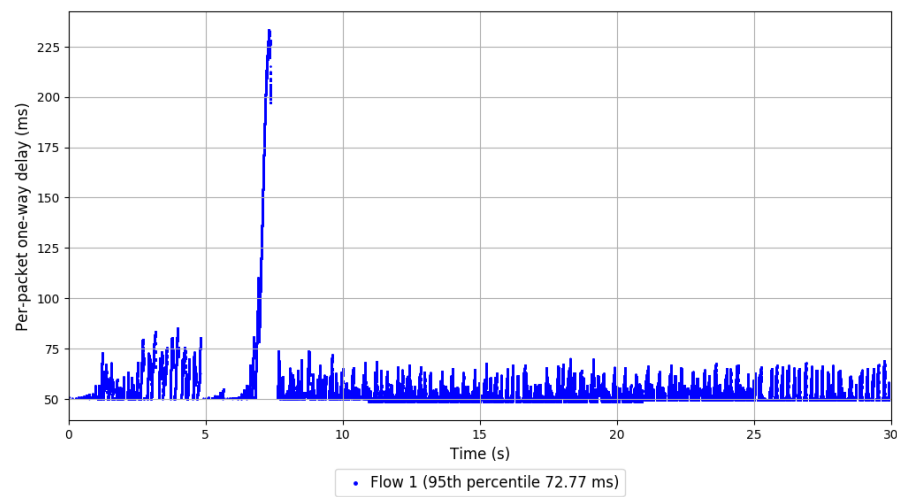
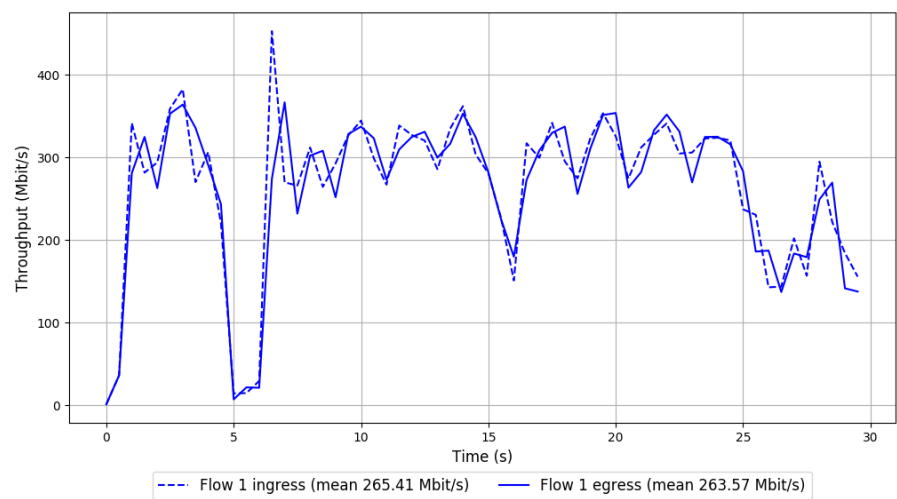
-- Flow 1:

Average throughput: 263.57 Mbit/s

95th percentile per-packet one-way delay: 72.771 ms

Loss rate: 0.96%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-21 02:40:51

End at: 2017-11-21 02:41:21

Below is generated by plot.py at 2017-11-21 06:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.12 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.16%

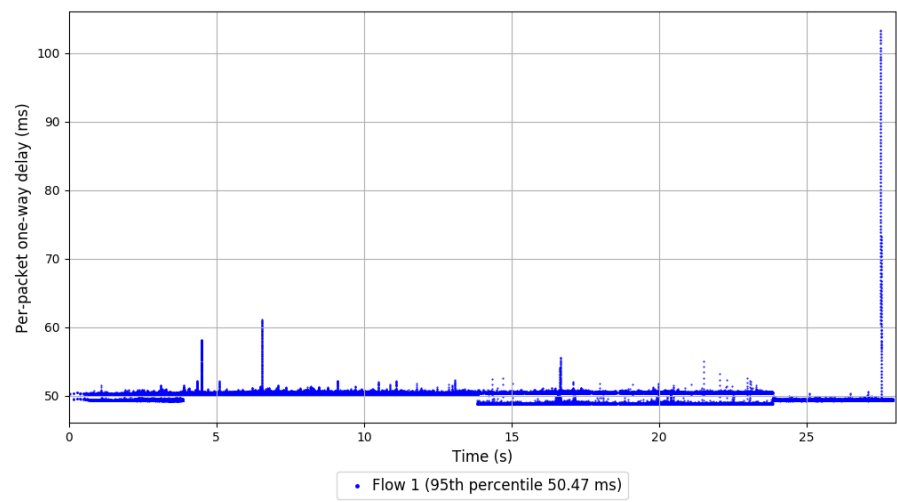
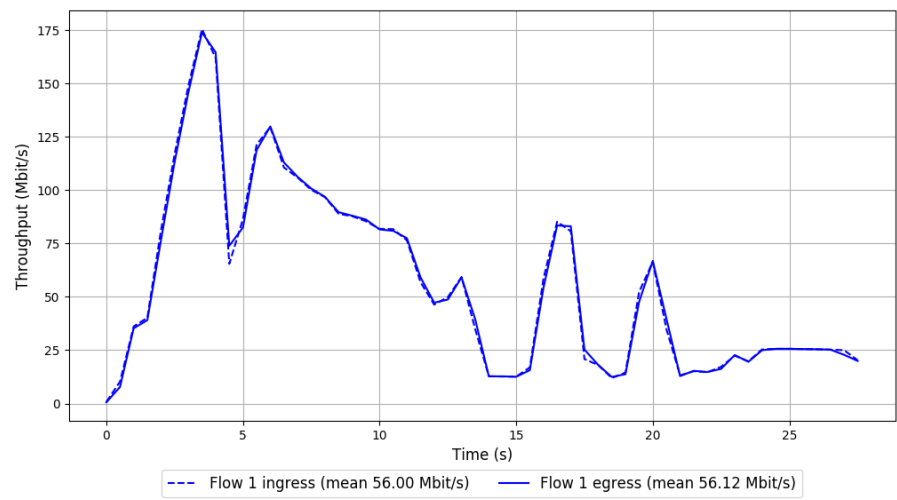
-- Flow 1:

Average throughput: 56.12 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.16%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-21 02:51:10

End at: 2017-11-21 02:51:40

Below is generated by plot.py at 2017-11-21 06:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 50.675 ms

Loss rate: 0.15%

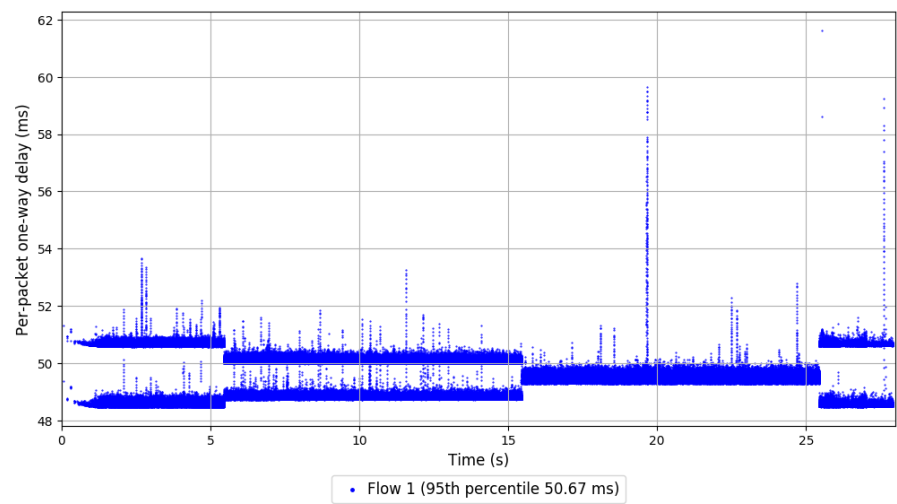
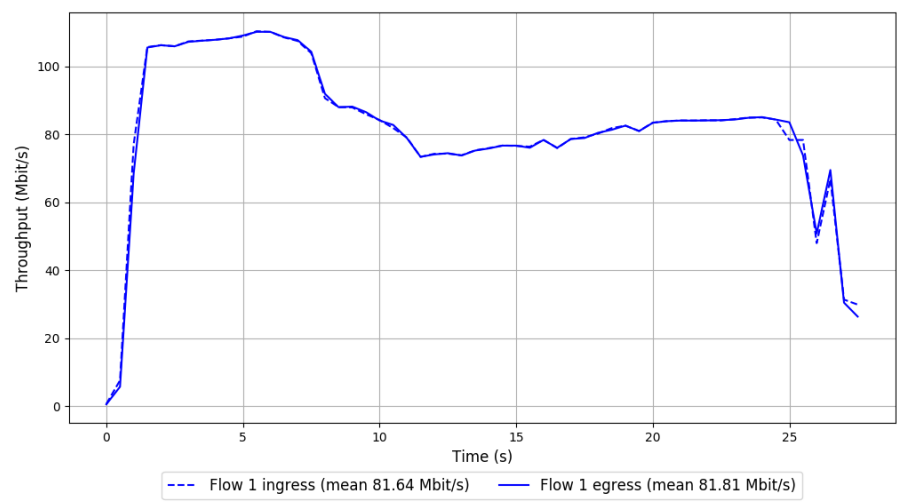
-- Flow 1:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 50.675 ms

Loss rate: 0.15%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 03:01:51

End at: 2017-11-21 03:02:21

Below is generated by plot.py at 2017-11-21 06:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.96 Mbit/s

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

Loss rate: 0.15%

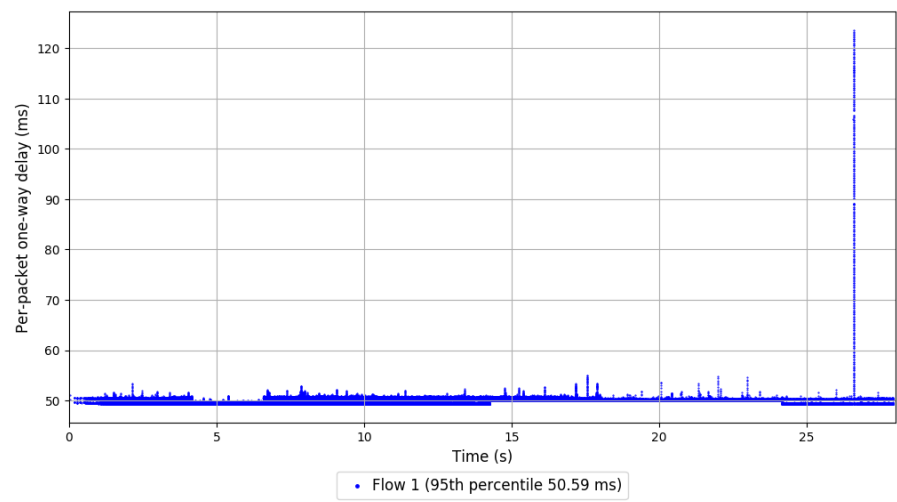
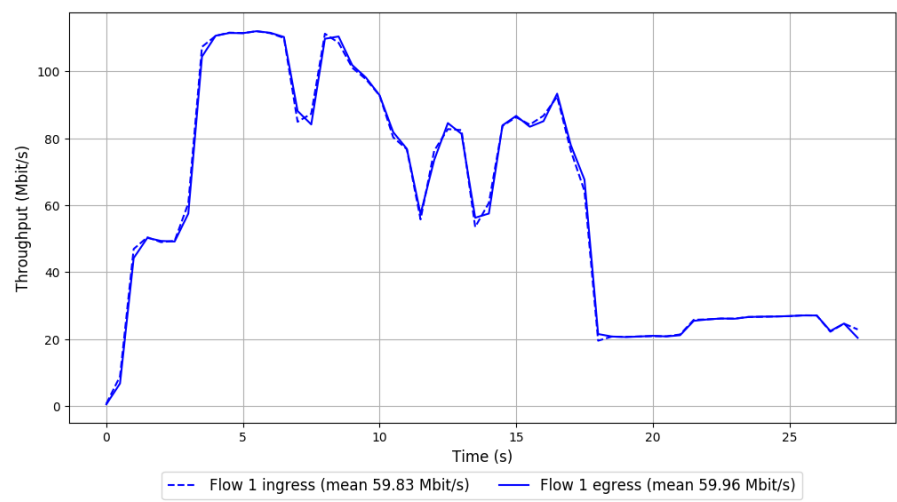
-- Flow 1:

Average throughput: 59.96 Mbit/s

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

Loss rate: 0.15%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 03:12:25

End at: 2017-11-21 03:12:55

Below is generated by plot.py at 2017-11-21 06:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.27 Mbit/s

95th percentile per-packet one-way delay: 50.883 ms

Loss rate: 0.06%

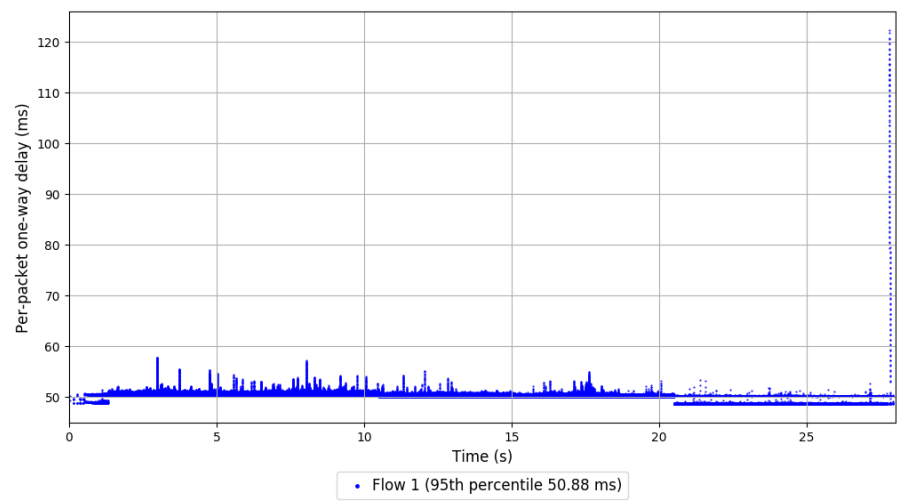
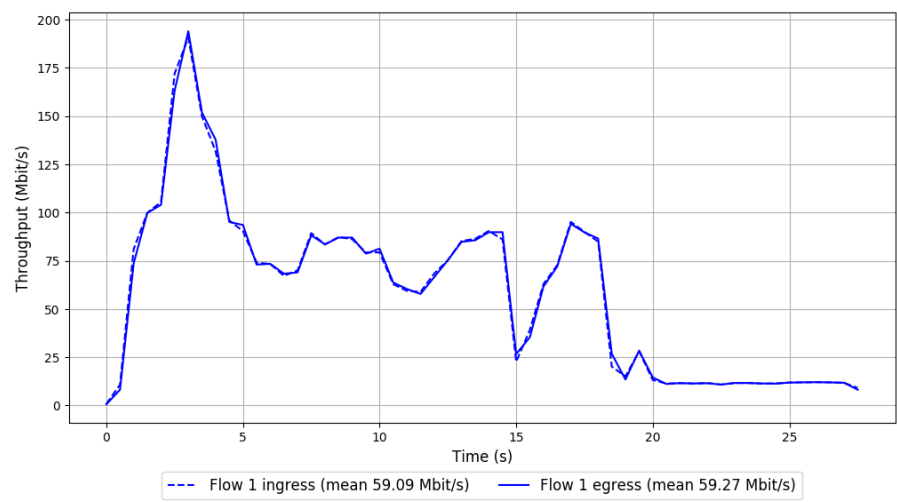
-- Flow 1:

Average throughput: 59.27 Mbit/s

95th percentile per-packet one-way delay: 50.883 ms

Loss rate: 0.06%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 03:22:54

End at: 2017-11-21 03:23:24

Below is generated by plot.py at 2017-11-21 06:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 50.518 ms

Loss rate: 0.22%

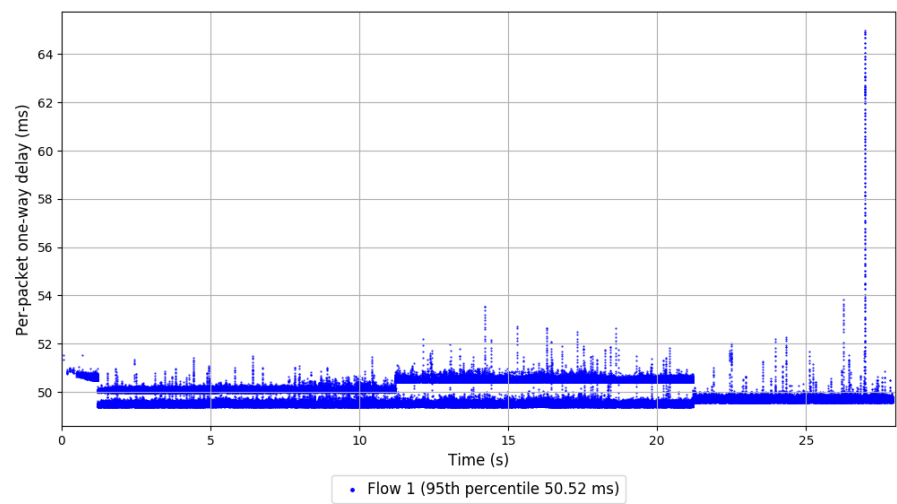
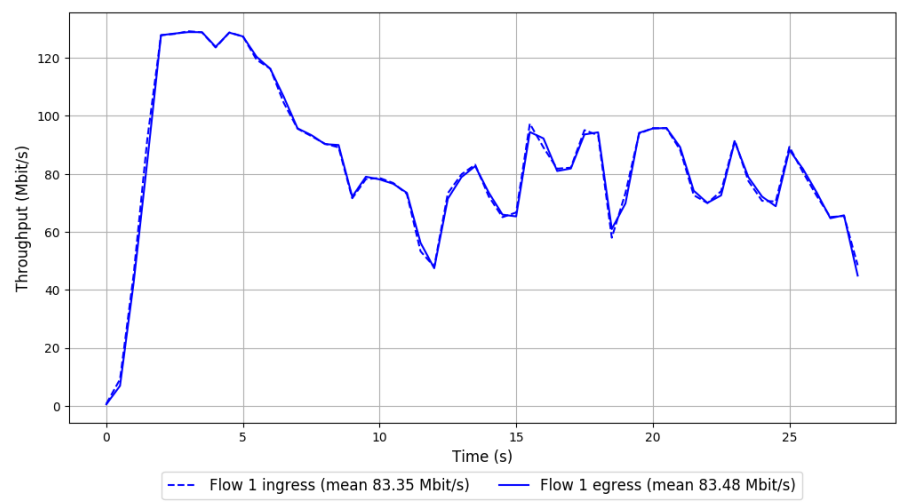
-- Flow 1:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 50.518 ms

Loss rate: 0.22%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 03:33:23

End at: 2017-11-21 03:33:53

Below is generated by plot.py at 2017-11-21 06:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 50.698 ms

Loss rate: 0.18%

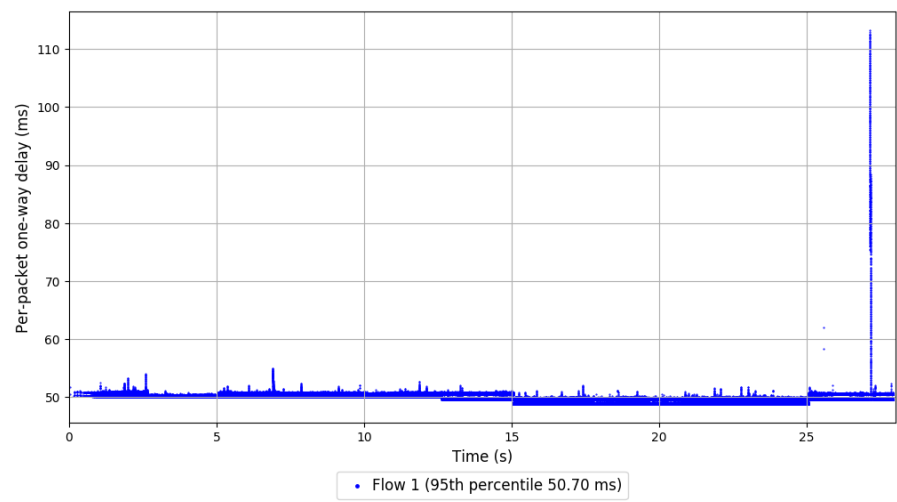
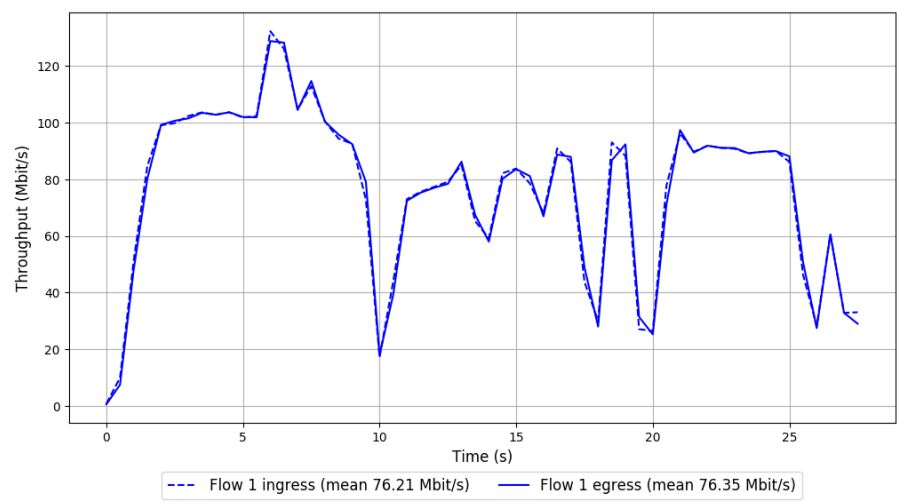
-- Flow 1:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 50.698 ms

Loss rate: 0.18%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 03:43:50

End at: 2017-11-21 03:44:20

Below is generated by plot.py at 2017-11-21 06:53:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 50.608 ms

Loss rate: 0.39%

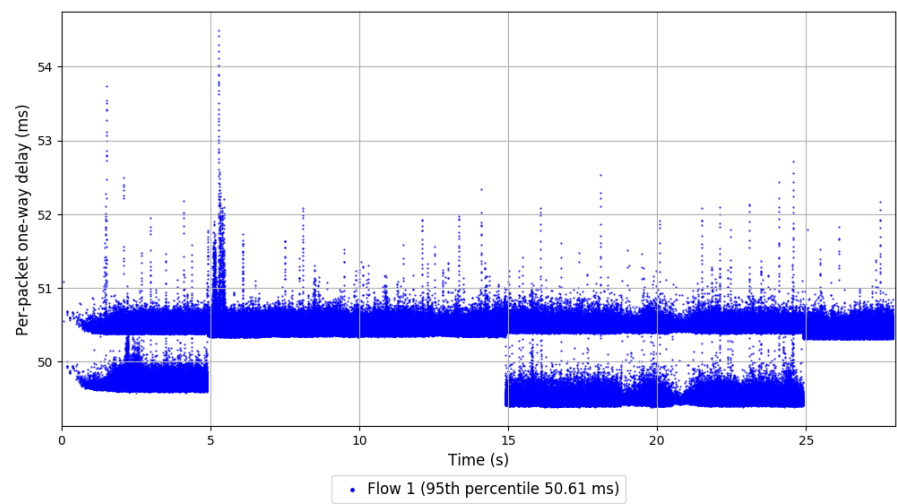
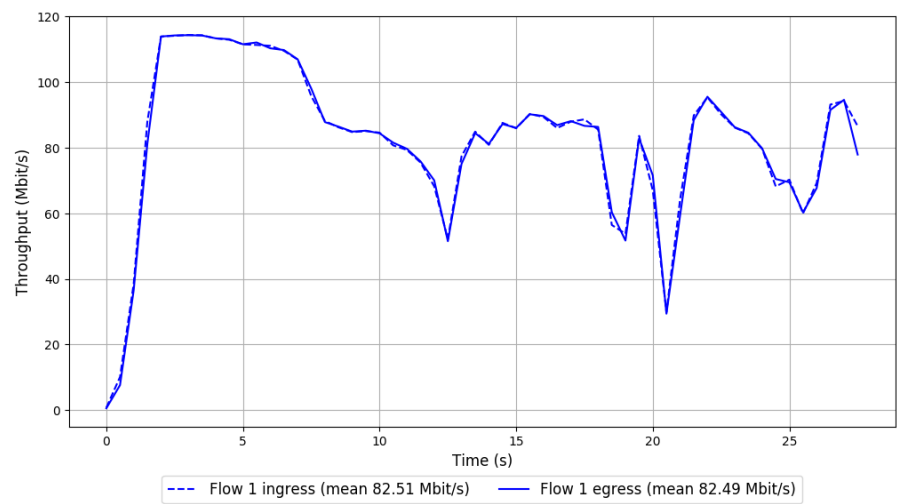
-- Flow 1:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 50.608 ms

Loss rate: 0.39%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 03:54:22

End at: 2017-11-21 03:54:52

Below is generated by plot.py at 2017-11-21 06:53:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 50.664 ms

Loss rate: 0.40%

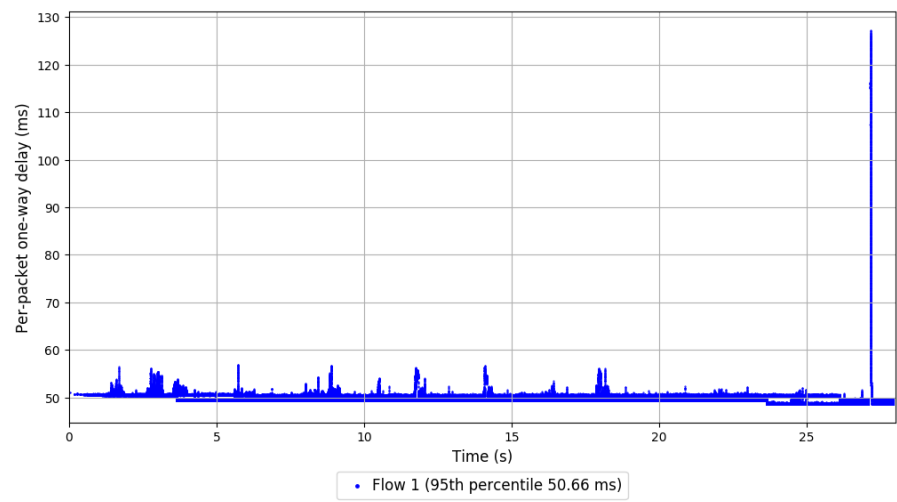
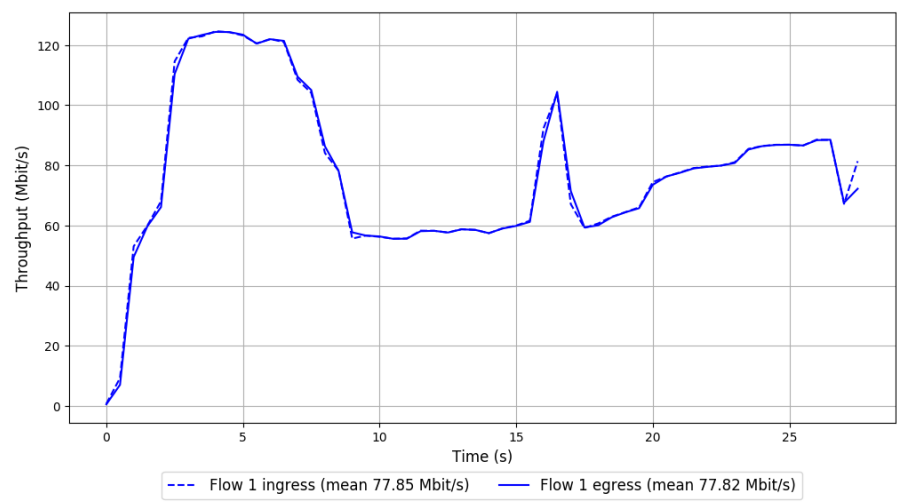
-- Flow 1:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 50.664 ms

Loss rate: 0.40%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 04:04:57

End at: 2017-11-21 04:05:28

Below is generated by plot.py at 2017-11-21 06:53:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.00 Mbit/s

95th percentile per-packet one-way delay: 50.386 ms

Loss rate: 0.44%

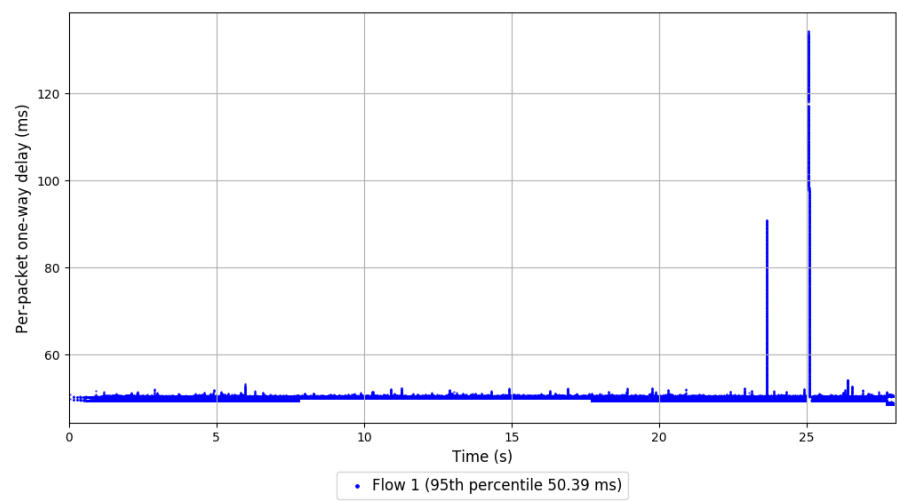
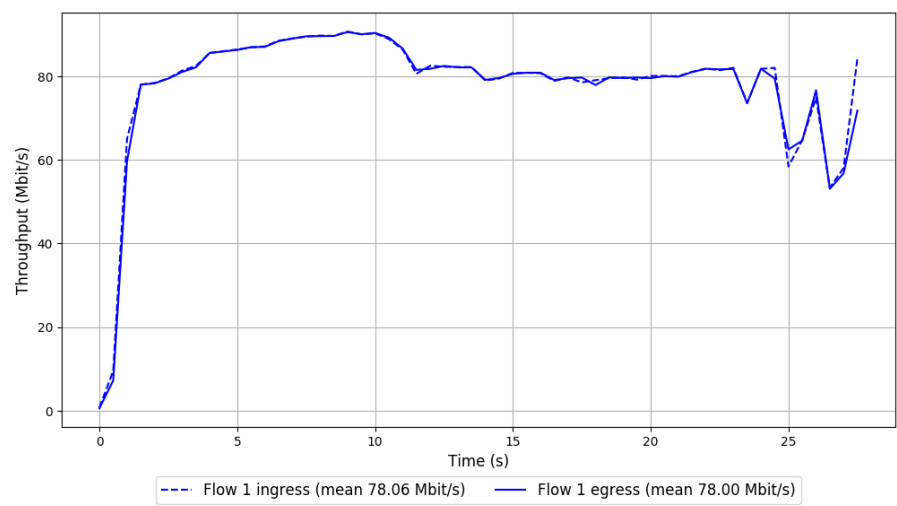
-- Flow 1:

Average throughput: 78.00 Mbit/s

95th percentile per-packet one-way delay: 50.386 ms

Loss rate: 0.44%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 04:15:31

End at: 2017-11-21 04:16:01

Below is generated by plot.py at 2017-11-21 06:54:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.49%

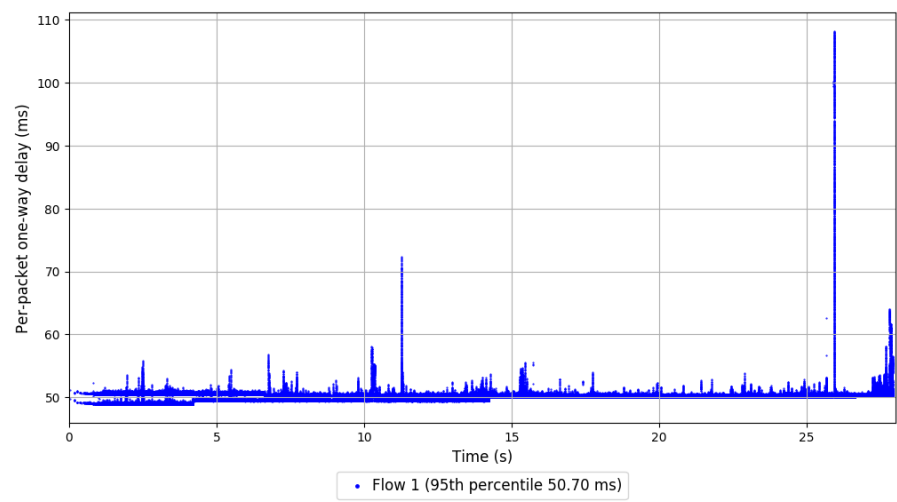
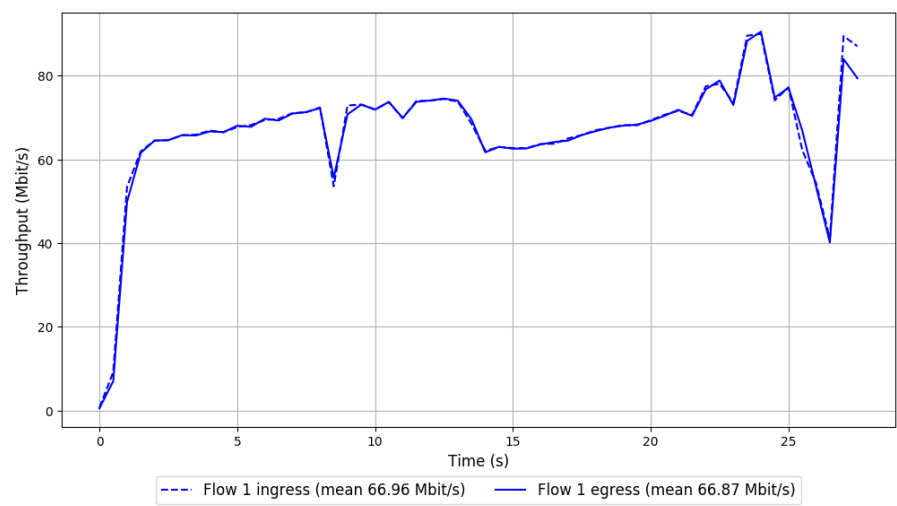
-- Flow 1:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.49%

Run 10: Report of Copa — Data Link

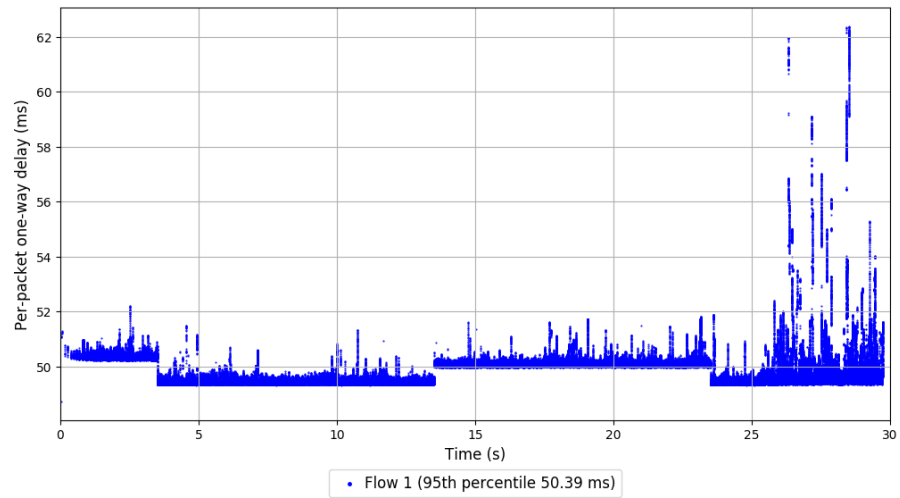
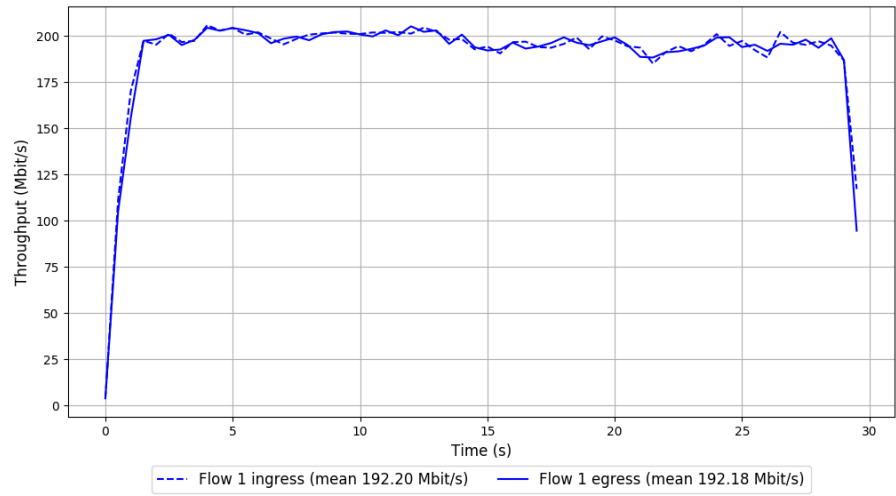


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 02:41:33
End at: 2017-11-21 02:42:03

# Below is generated by plot.py at 2017-11-21 06:56:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.18 Mbit/s
95th percentile per-packet one-way delay: 50.390 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 192.18 Mbit/s
95th percentile per-packet one-way delay: 50.390 ms
Loss rate: 0.36%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-21 02:51:54

End at: 2017-11-21 02:52:24

Below is generated by plot.py at 2017-11-21 06:56:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.52 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 0.36%

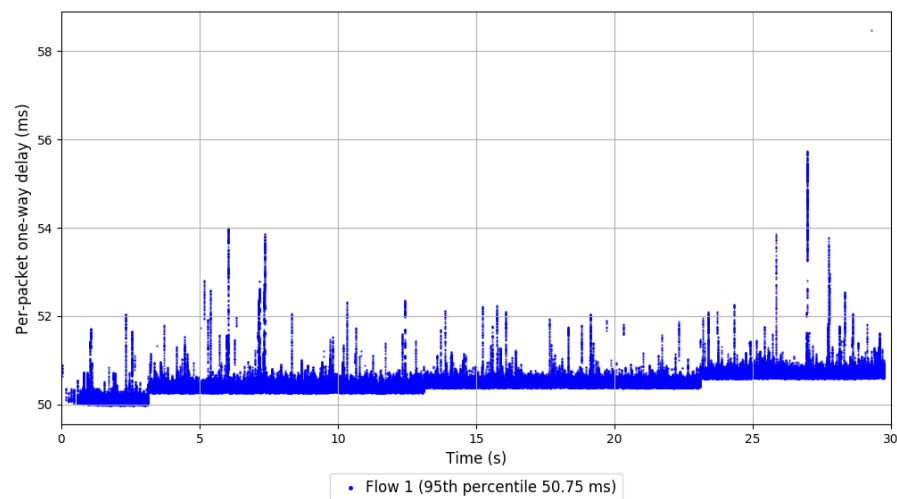
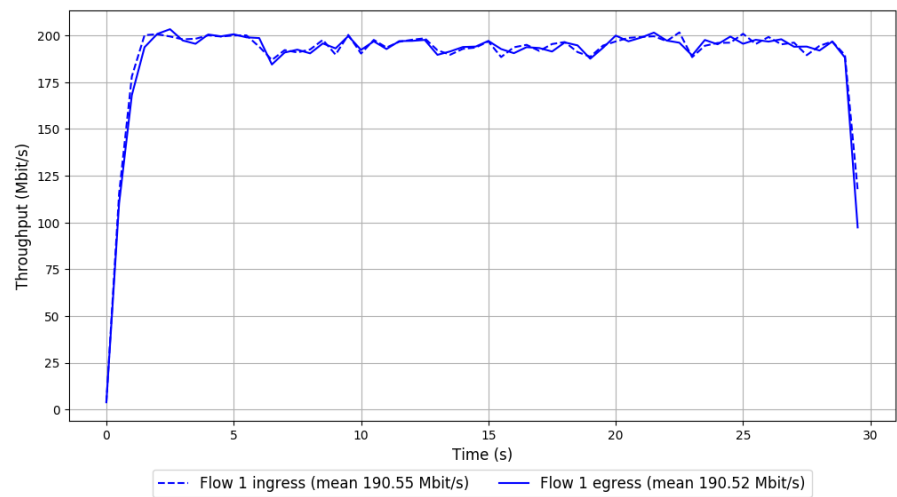
-- Flow 1:

Average throughput: 190.52 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 0.36%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 03:02:33

End at: 2017-11-21 03:03:03

Below is generated by plot.py at 2017-11-21 06:56:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.43 Mbit/s

95th percentile per-packet one-way delay: 50.154 ms

Loss rate: 0.36%

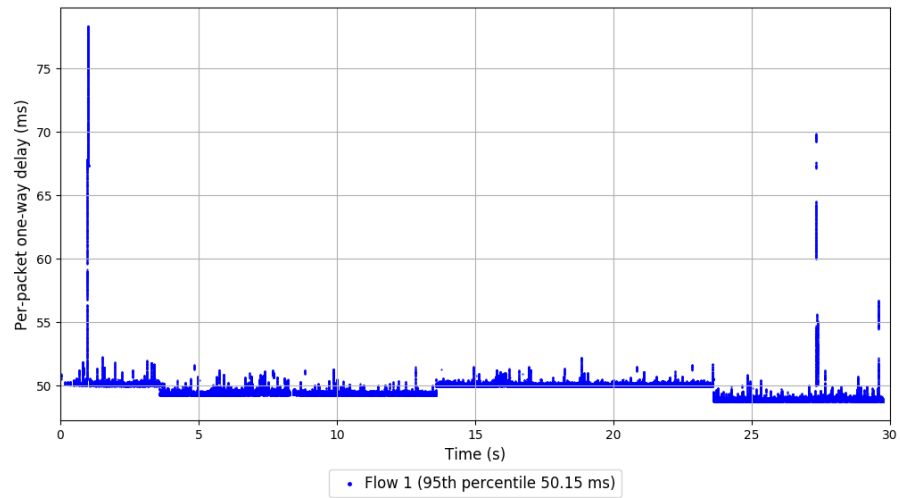
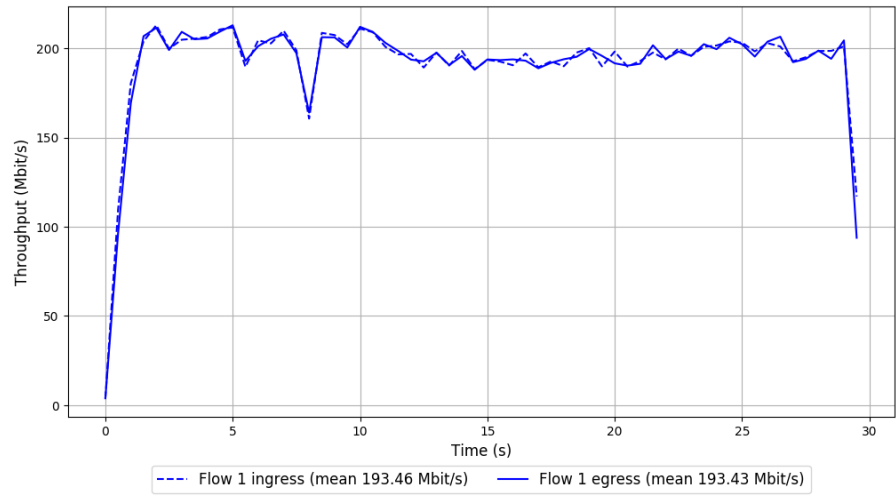
-- Flow 1:

Average throughput: 193.43 Mbit/s

95th percentile per-packet one-way delay: 50.154 ms

Loss rate: 0.36%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 03:13:09

End at: 2017-11-21 03:13:39

Below is generated by plot.py at 2017-11-21 06:56:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.28 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.35%

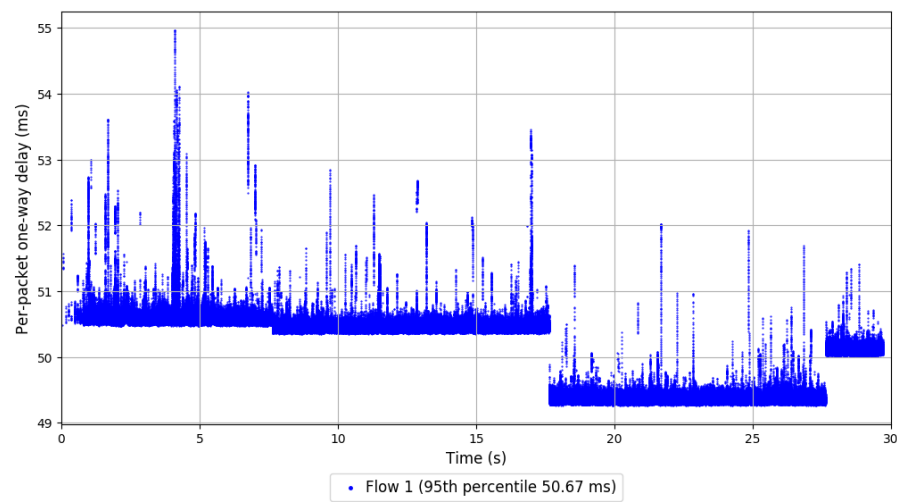
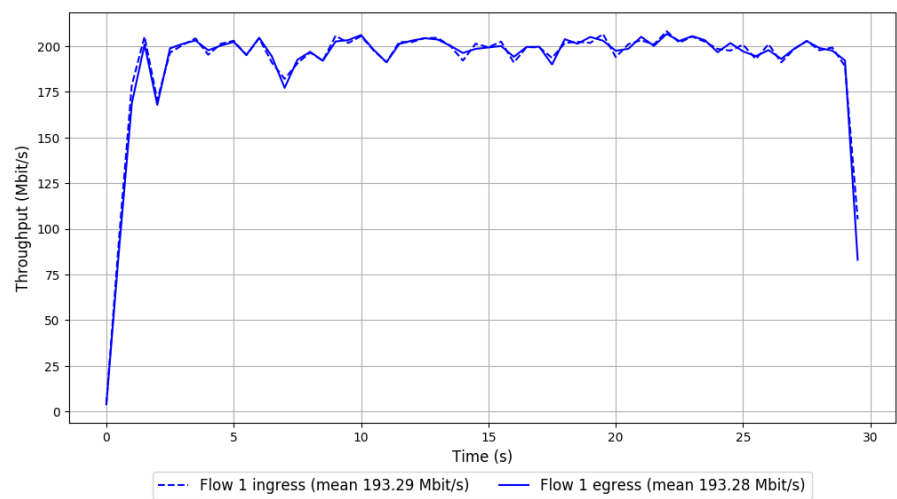
-- Flow 1:

Average throughput: 193.28 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.35%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 03:23:38

End at: 2017-11-21 03:24:08

Below is generated by plot.py at 2017-11-21 06:56:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.15 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.37%

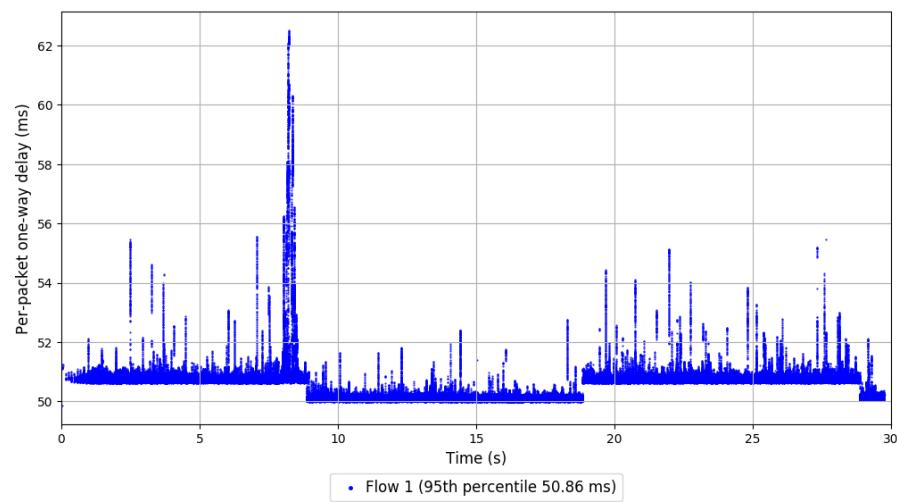
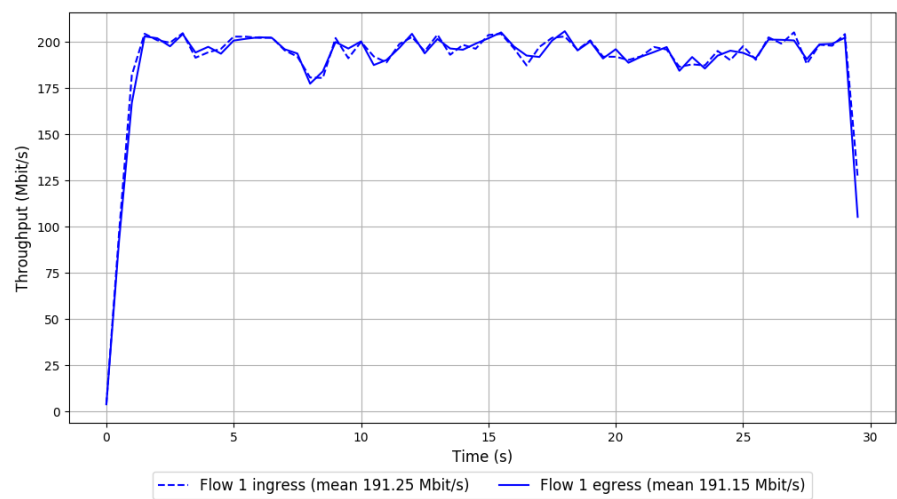
-- Flow 1:

Average throughput: 191.15 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.37%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 03:34:07

End at: 2017-11-21 03:34:37

Below is generated by plot.py at 2017-11-21 06:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.22 Mbit/s

95th percentile per-packet one-way delay: 50.509 ms

Loss rate: 0.33%

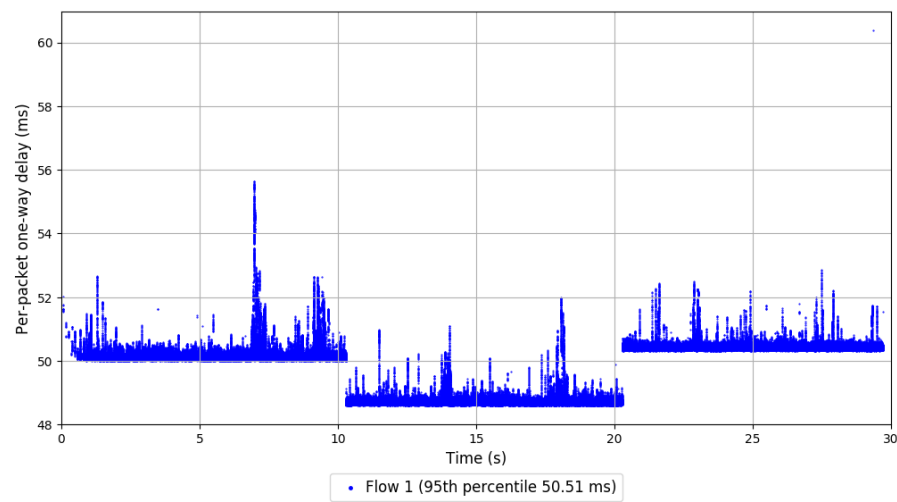
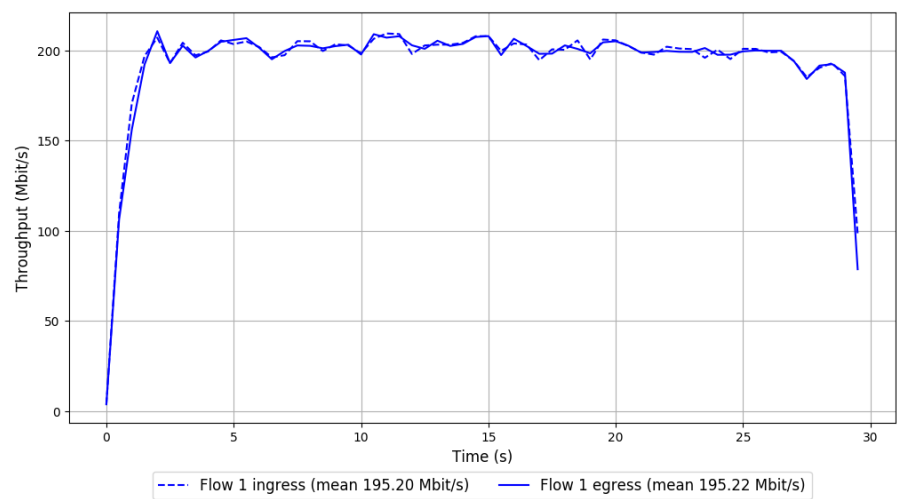
-- Flow 1:

Average throughput: 195.22 Mbit/s

95th percentile per-packet one-way delay: 50.509 ms

Loss rate: 0.33%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 03:44:35

End at: 2017-11-21 03:45:05

Below is generated by plot.py at 2017-11-21 06:57:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.50 Mbit/s

95th percentile per-packet one-way delay: 50.258 ms

Loss rate: 0.39%

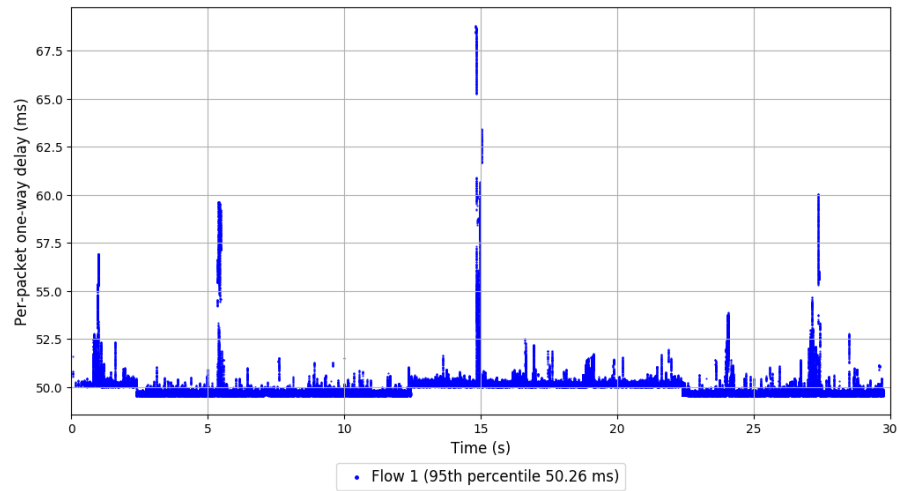
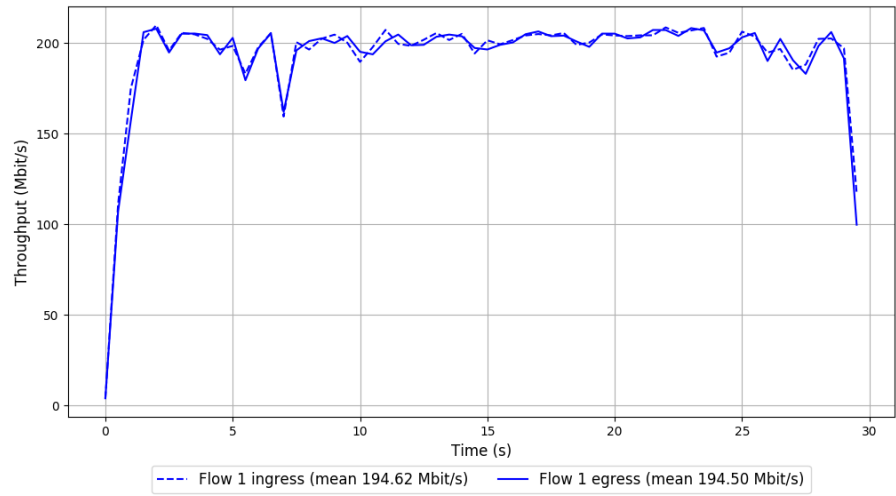
-- Flow 1:

Average throughput: 194.50 Mbit/s

95th percentile per-packet one-way delay: 50.258 ms

Loss rate: 0.39%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 03:55:05

End at: 2017-11-21 03:55:35

Below is generated by plot.py at 2017-11-21 06:58:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.52 Mbit/s

95th percentile per-packet one-way delay: 50.569 ms

Loss rate: 0.36%

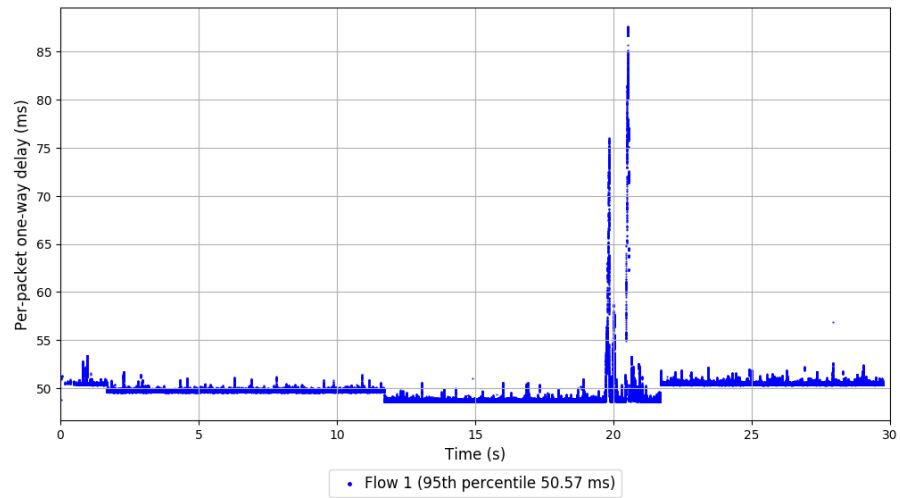
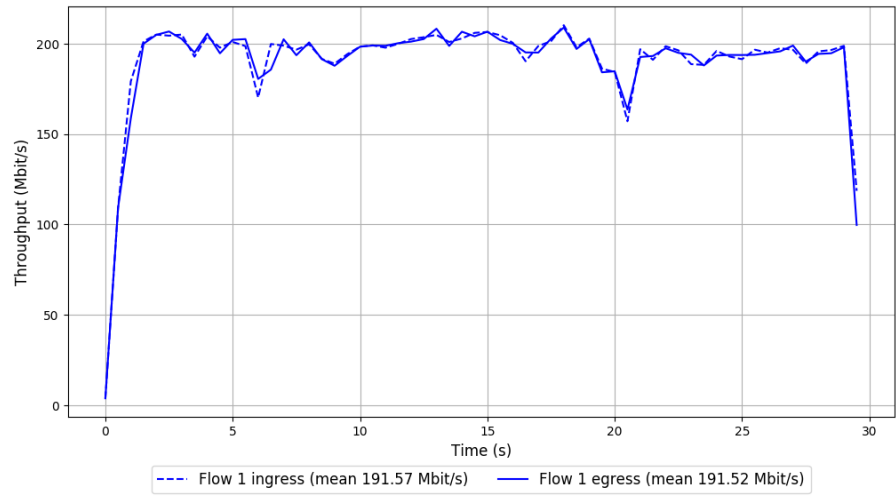
-- Flow 1:

Average throughput: 191.52 Mbit/s

95th percentile per-packet one-way delay: 50.569 ms

Loss rate: 0.36%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 04:05:42

End at: 2017-11-21 04:06:12

Below is generated by plot.py at 2017-11-21 07:00:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.54 Mbit/s

95th percentile per-packet one-way delay: 50.620 ms

Loss rate: 0.34%

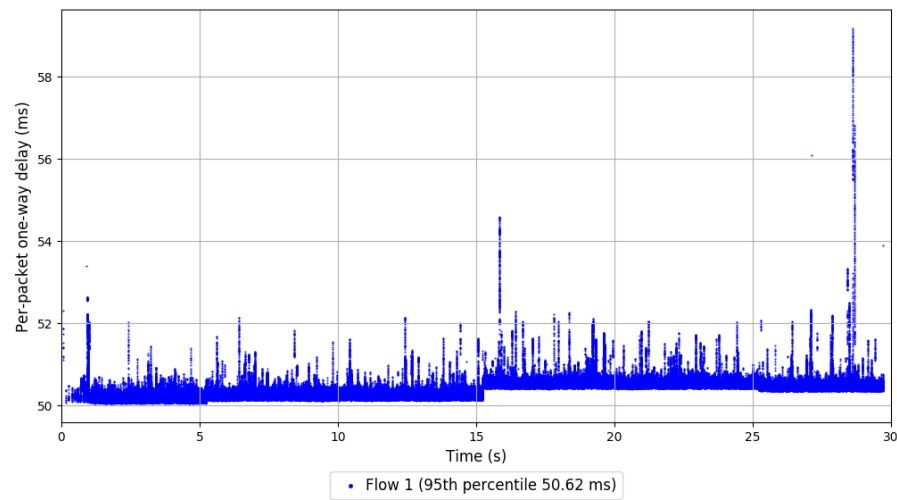
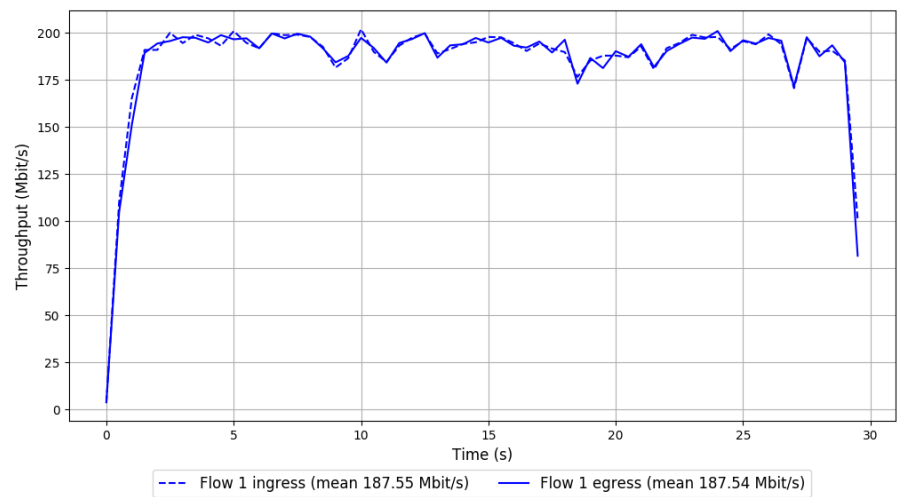
-- Flow 1:

Average throughput: 187.54 Mbit/s

95th percentile per-packet one-way delay: 50.620 ms

Loss rate: 0.34%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 04:16:16

End at: 2017-11-21 04:16:46

Below is generated by plot.py at 2017-11-21 07:00:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.50 Mbit/s

95th percentile per-packet one-way delay: 50.888 ms

Loss rate: 0.35%

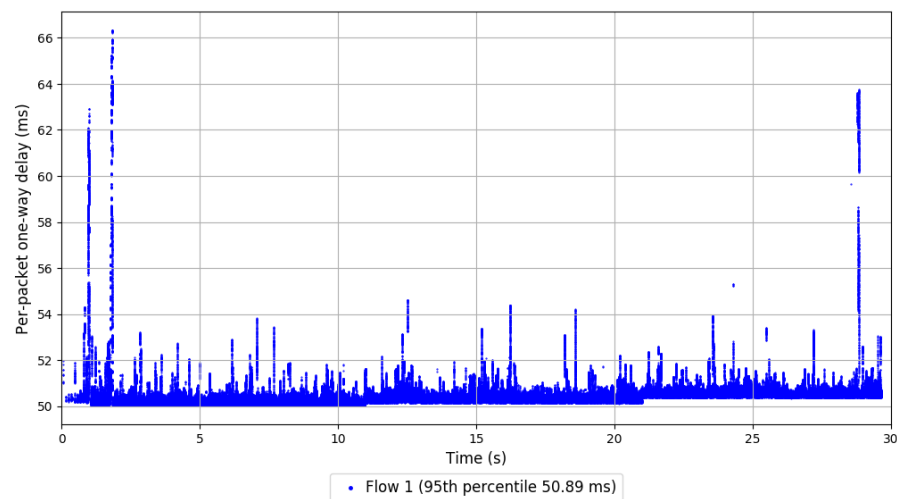
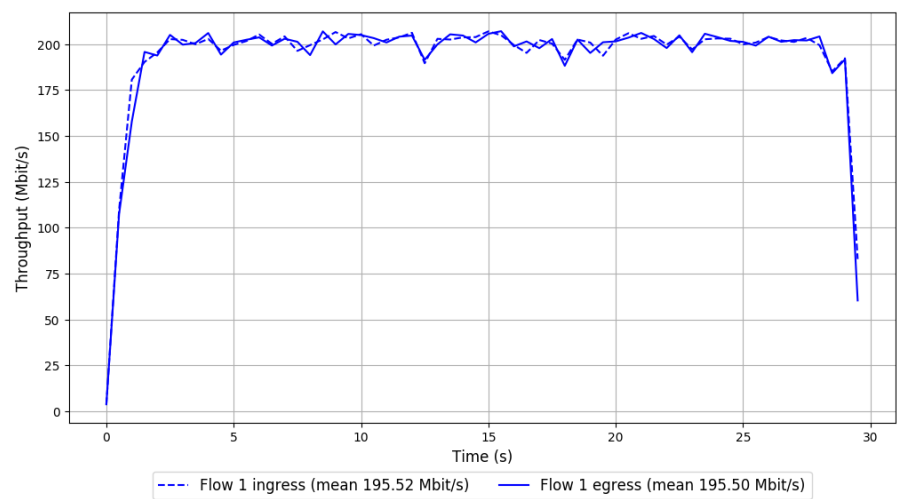
-- Flow 1:

Average throughput: 195.50 Mbit/s

95th percentile per-packet one-way delay: 50.888 ms

Loss rate: 0.35%

Run 10: Report of Indigo — Data Link

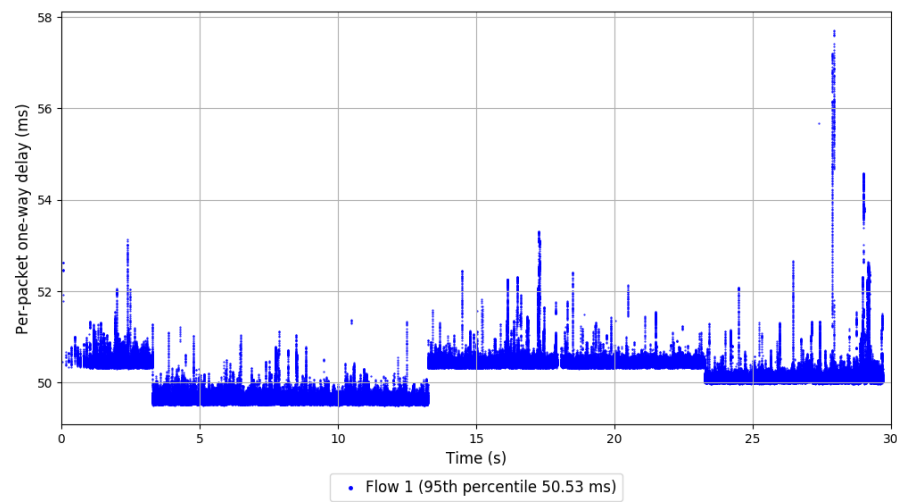
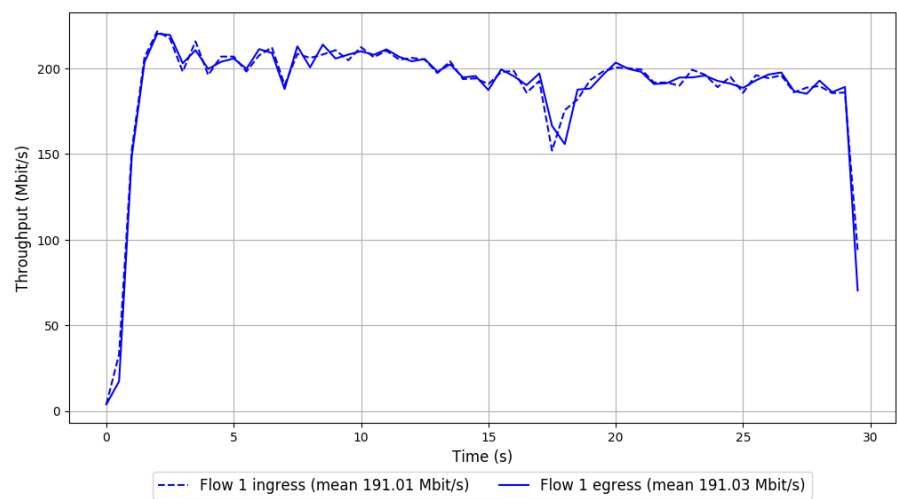


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 02:46:54
End at: 2017-11-21 02:47:24

# Below is generated by plot.py at 2017-11-21 07:00:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.03 Mbit/s
95th percentile per-packet one-way delay: 50.527 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 191.03 Mbit/s
95th percentile per-packet one-way delay: 50.527 ms
Loss rate: 0.33%
```

Run 1: Report of Indigo-calib — Data Link

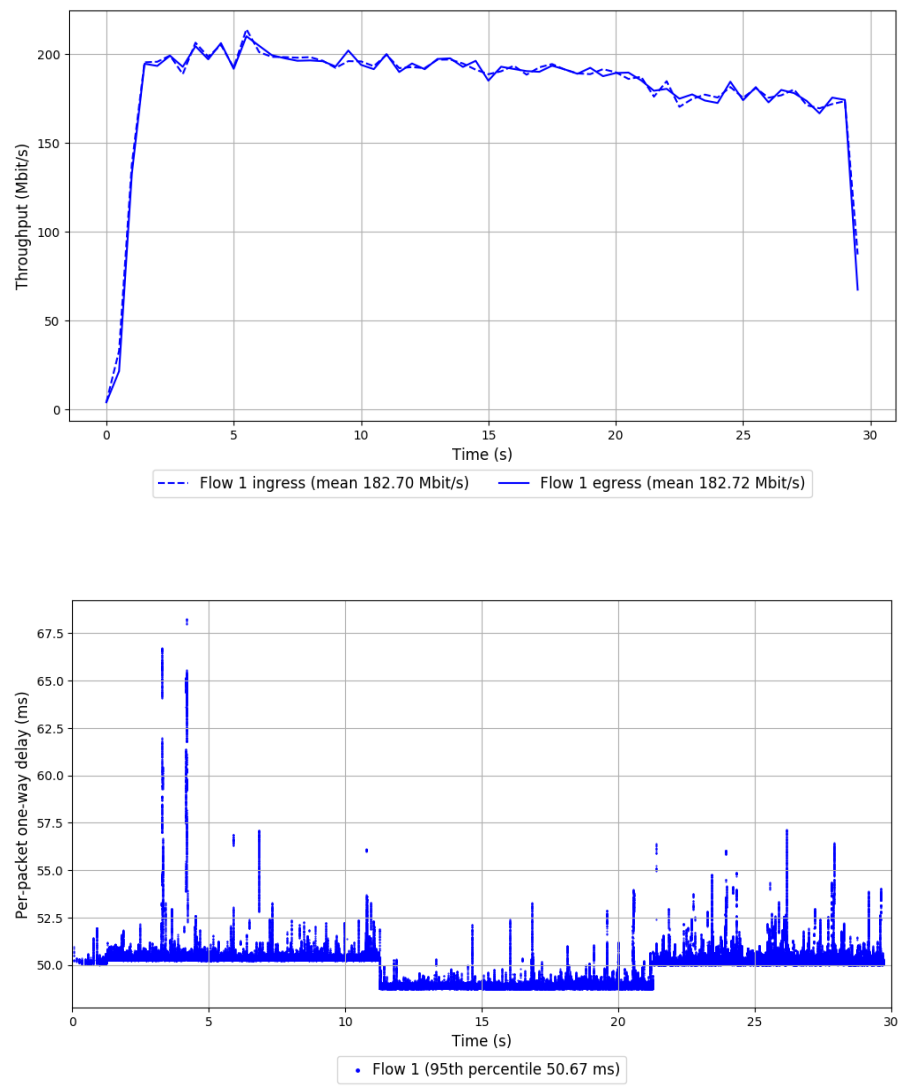


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 02:57:26
End at: 2017-11-21 02:57:56

# Below is generated by plot.py at 2017-11-21 07:00:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.72 Mbit/s
95th percentile per-packet one-way delay: 50.670 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 182.72 Mbit/s
95th percentile per-packet one-way delay: 50.670 ms
Loss rate: 0.33%
```

Run 2: Report of Indigo-calib — Data Link

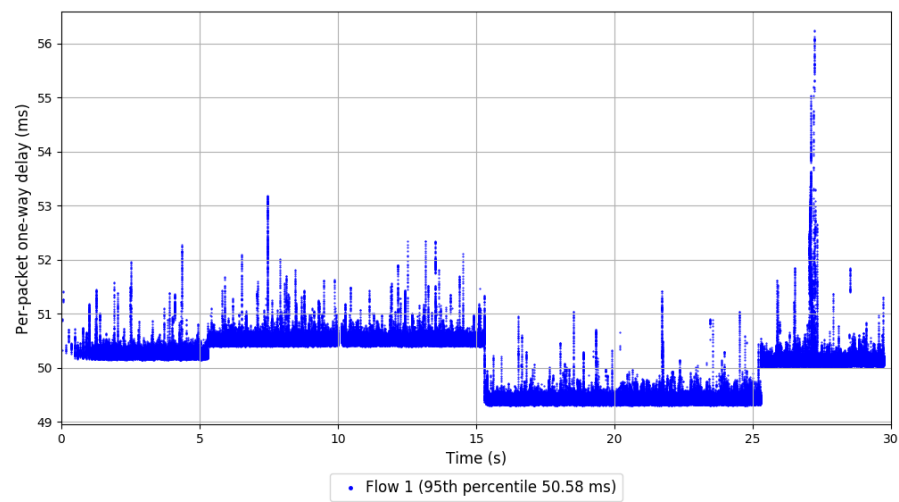
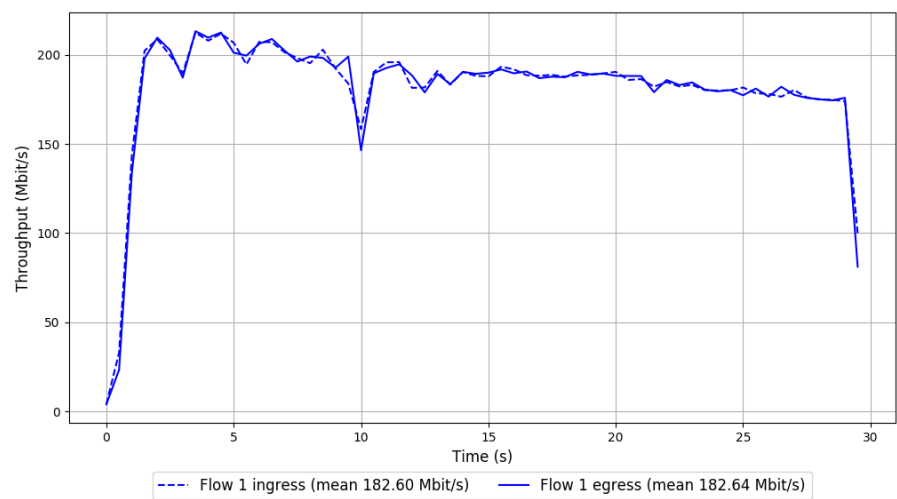


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 03:08:02
End at: 2017-11-21 03:08:32

# Below is generated by plot.py at 2017-11-21 07:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.64 Mbit/s
95th percentile per-packet one-way delay: 50.578 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 182.64 Mbit/s
95th percentile per-packet one-way delay: 50.578 ms
Loss rate: 0.32%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 03:18:31

End at: 2017-11-21 03:19:01

Below is generated by plot.py at 2017-11-21 07:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.12 Mbit/s

95th percentile per-packet one-way delay: 50.547 ms

Loss rate: 0.32%

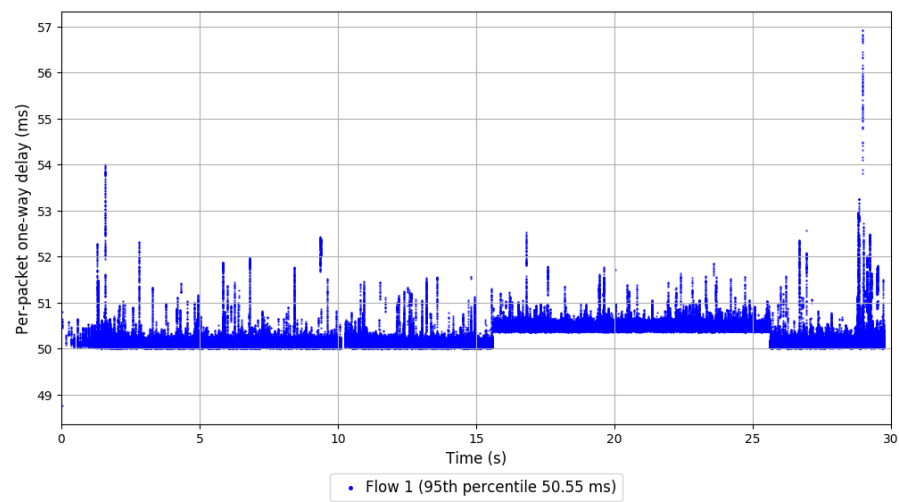
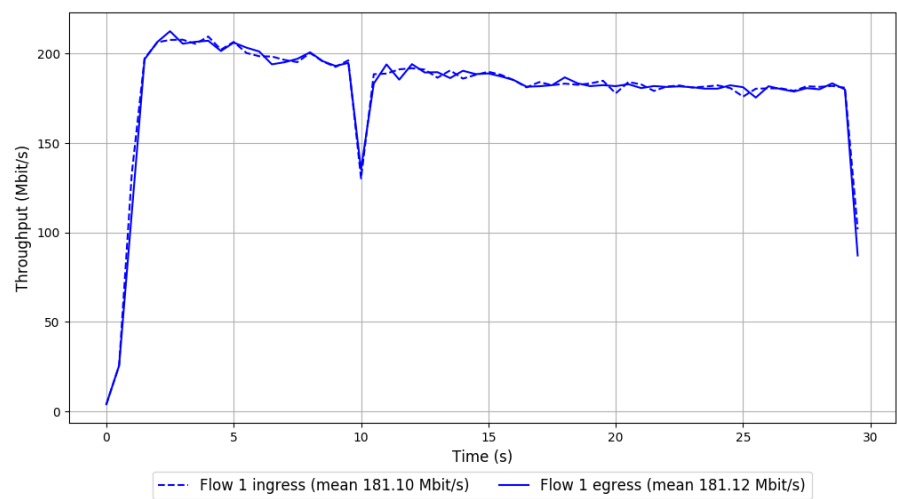
-- Flow 1:

Average throughput: 181.12 Mbit/s

95th percentile per-packet one-way delay: 50.547 ms

Loss rate: 0.32%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 03:29:02

End at: 2017-11-21 03:29:32

Below is generated by plot.py at 2017-11-21 07:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.42 Mbit/s

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

Loss rate: 0.27%

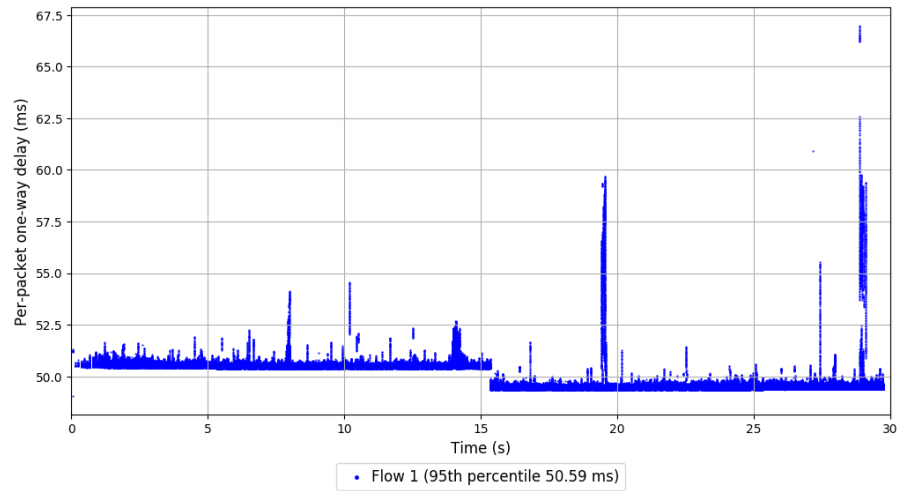
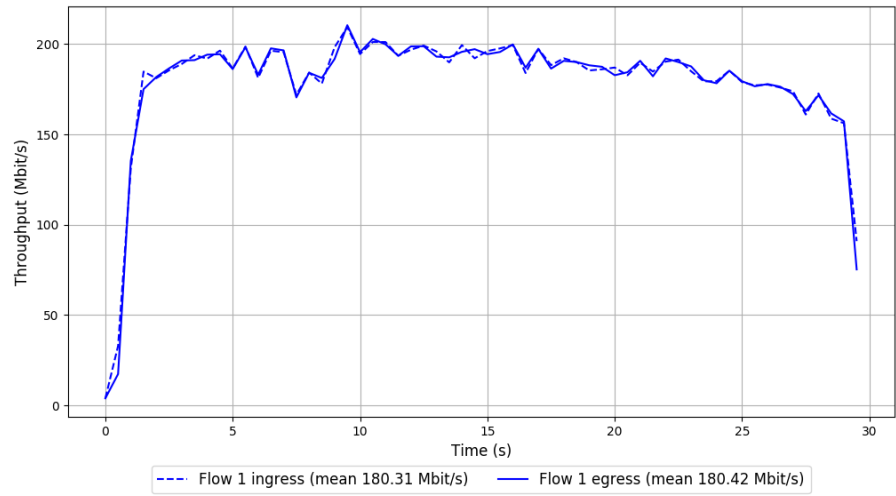
-- Flow 1:

Average throughput: 180.42 Mbit/s

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

Loss rate: 0.27%

Run 5: Report of Indigo-calib — Data Link

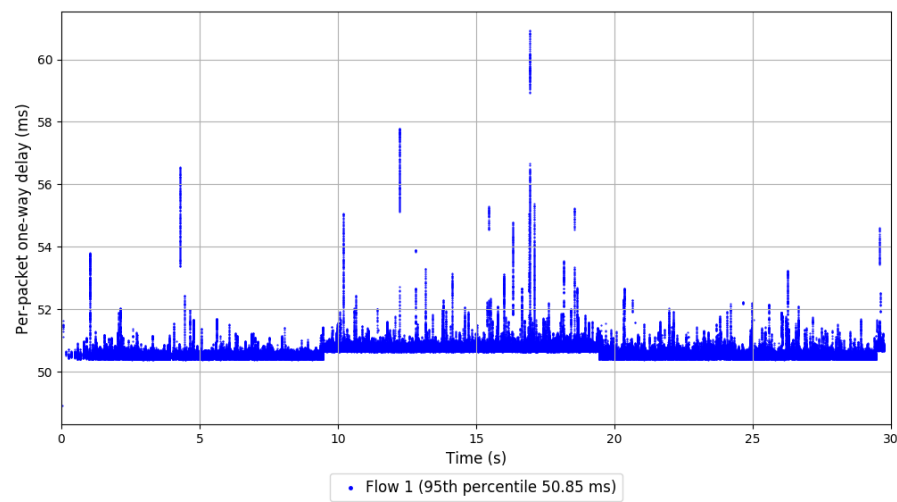
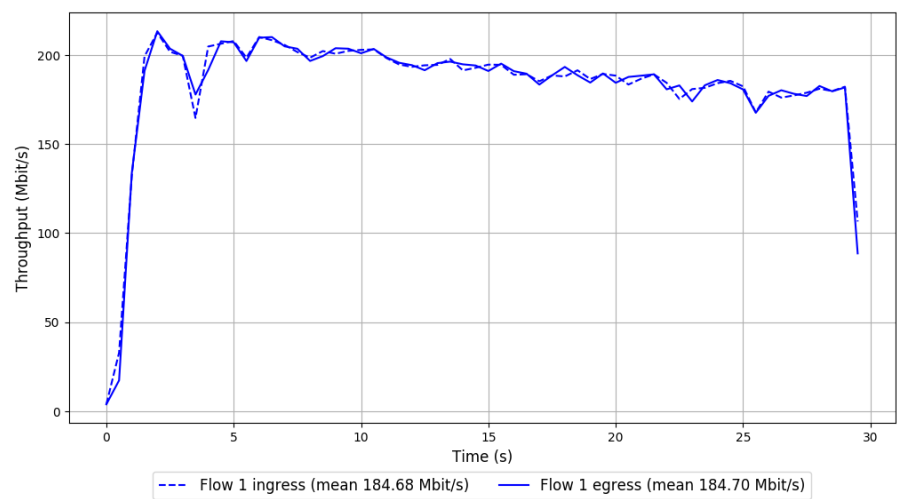


```
Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 03:39:38
End at: 2017-11-21 03:40:08

# Below is generated by plot.py at 2017-11-21 07:01:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.70 Mbit/s
95th percentile per-packet one-way delay: 50.853 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 184.70 Mbit/s
95th percentile per-packet one-way delay: 50.853 ms
Loss rate: 0.32%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 03:50:07

End at: 2017-11-21 03:50:37

Below is generated by plot.py at 2017-11-21 07:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.09 Mbit/s

95th percentile per-packet one-way delay: 50.908 ms

Loss rate: 0.34%

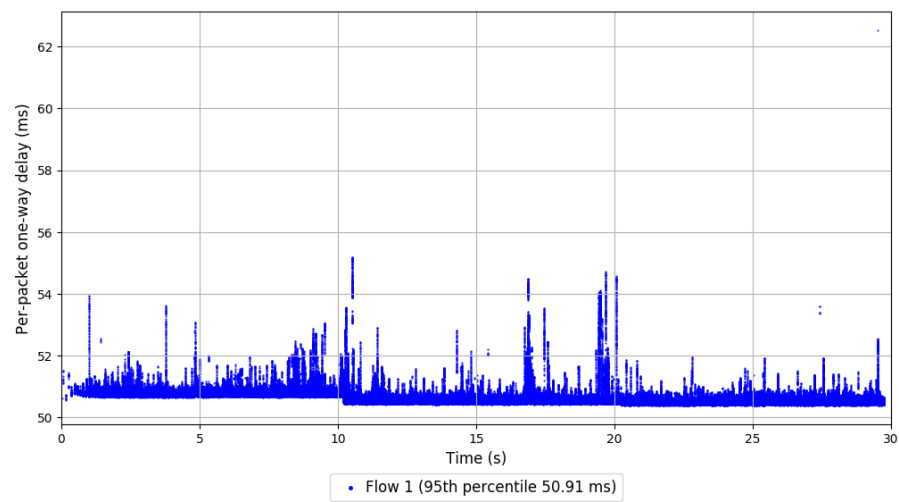
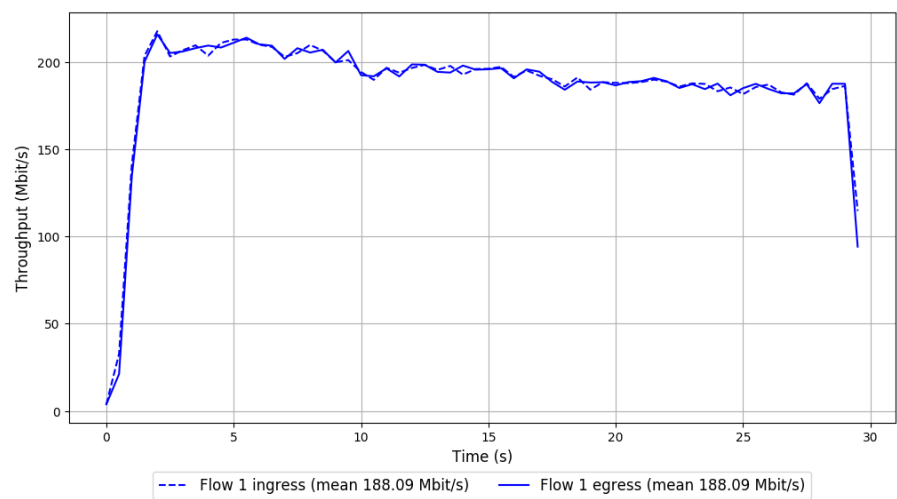
-- Flow 1:

Average throughput: 188.09 Mbit/s

95th percentile per-packet one-way delay: 50.908 ms

Loss rate: 0.34%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 04:00:30

End at: 2017-11-21 04:01:00

Below is generated by plot.py at 2017-11-21 07:02:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.40 Mbit/s

95th percentile per-packet one-way delay: 51.144 ms

Loss rate: 0.33%

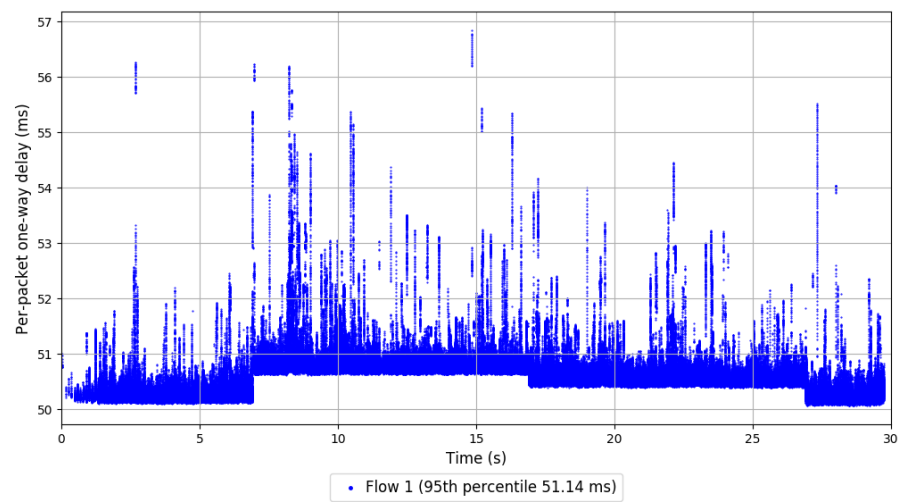
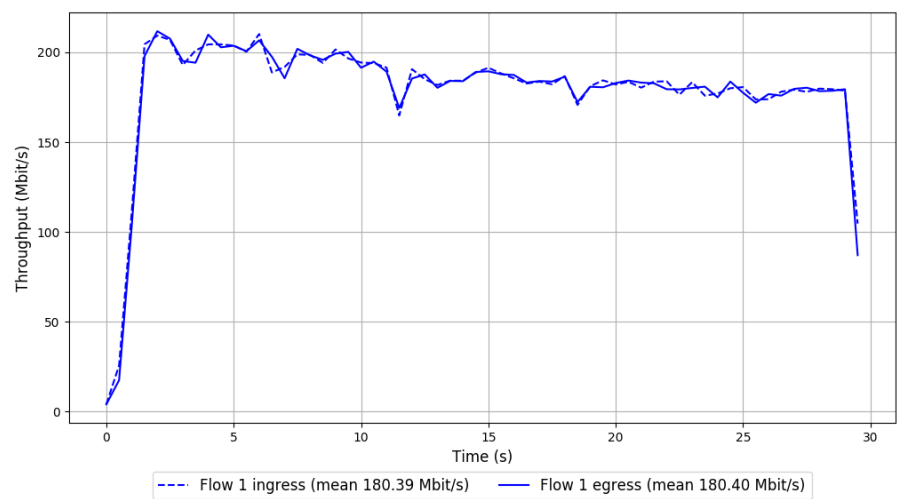
-- Flow 1:

Average throughput: 180.40 Mbit/s

95th percentile per-packet one-way delay: 51.144 ms

Loss rate: 0.33%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 04:11:08

End at: 2017-11-21 04:11:38

Below is generated by plot.py at 2017-11-21 07:02:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.10 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.33%

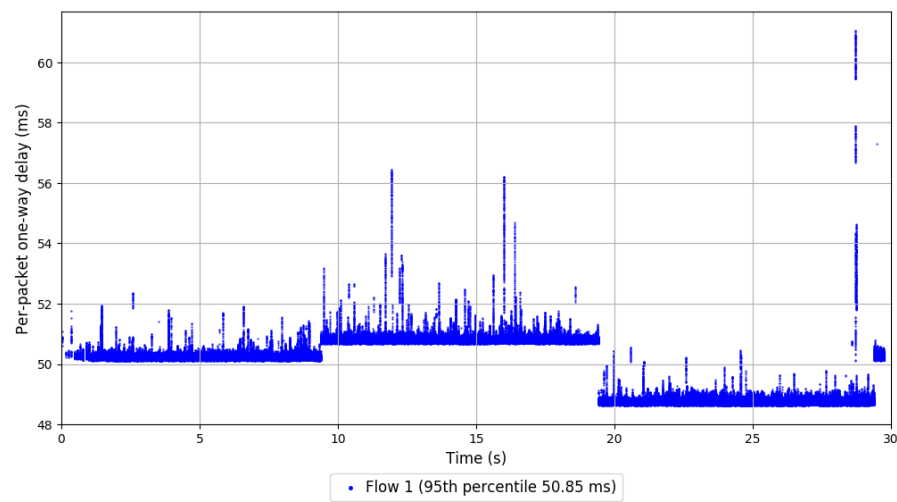
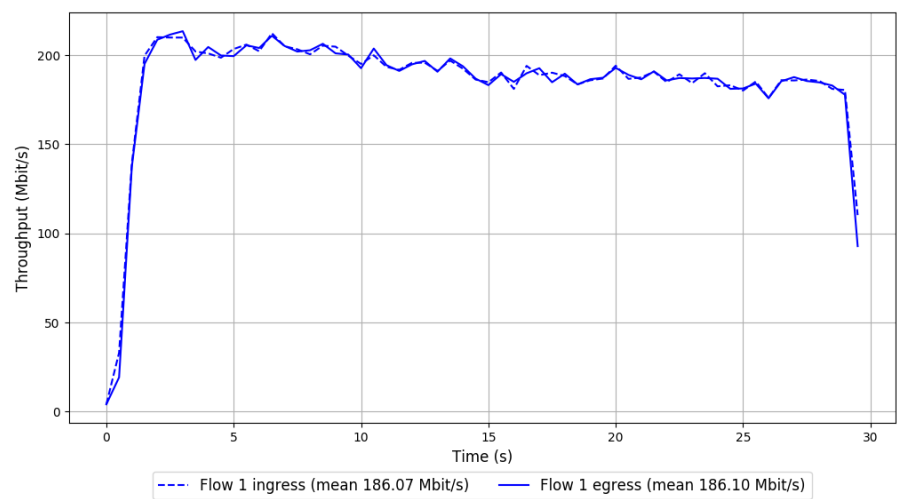
-- Flow 1:

Average throughput: 186.10 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.33%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 04:21:48

End at: 2017-11-21 04:22:18

Below is generated by plot.py at 2017-11-21 07:02:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.16 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 167.16 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.23%

Run 10: Report of Indigo-calib — Data Link

