

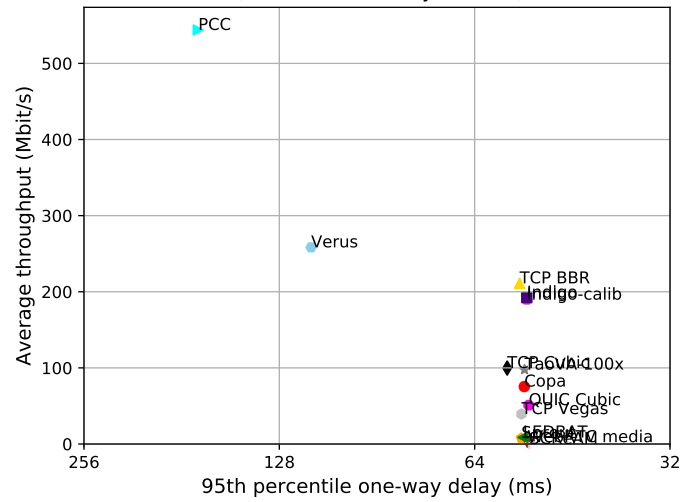
Pantheon Report

Generated at 2017-11-21 06:49:53 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney 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**).

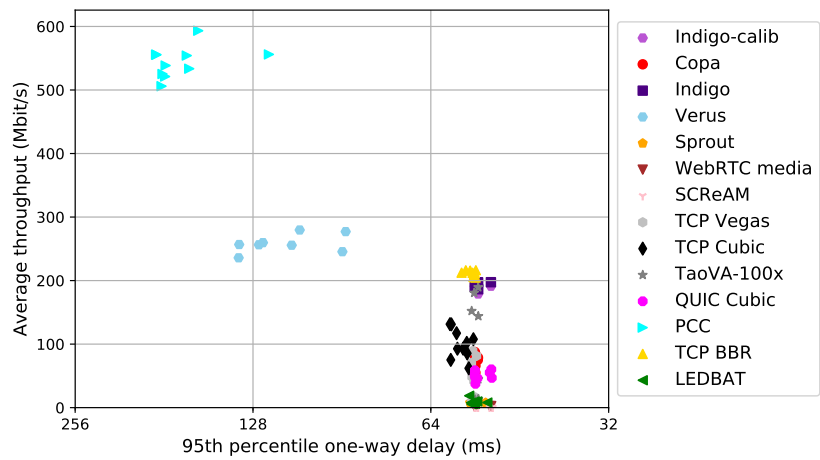
Git summary:

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



test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	211.02	54.57	0.38
TCP Cubic	10	99.75	57.03	0.29
LEDBAT	10	8.66	53.93	0.44
PCC	10	543.90	170.68	1.97
QUIC Cubic	10	51.06	52.84	0.50
SCReAM	10	0.21	52.74	0.35
WebRTC media	8	2.43	53.10	0.43
Sprout	10	7.78	54.24	0.41
TaoVA-100x	8	97.75	53.62	0.59
TCP Vegas	10	39.30	54.22	0.34
Verus	8	258.32	114.37	0.72
Copa	10	75.45	53.67	0.23
Indigo	10	192.30	53.19	0.37
Indigo-calib	10	189.63	53.19	0.33

Run 1: Statistics of TCP BBR

Start at: 2017-11-21 02:48:29

End at: 2017-11-21 02:48:59

Below is generated by plot.py at 2017-11-21 06:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.31 Mbit/s

95th percentile per-packet one-way delay: 53.700 ms

Loss rate: 0.37%

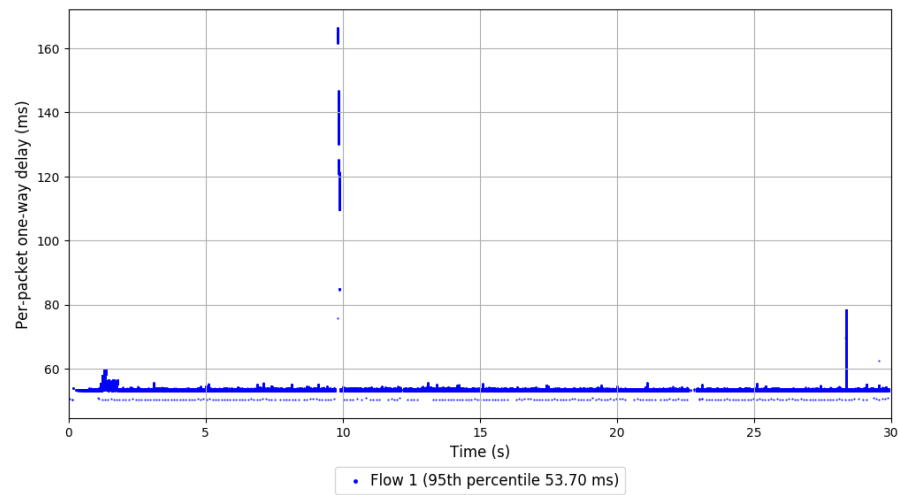
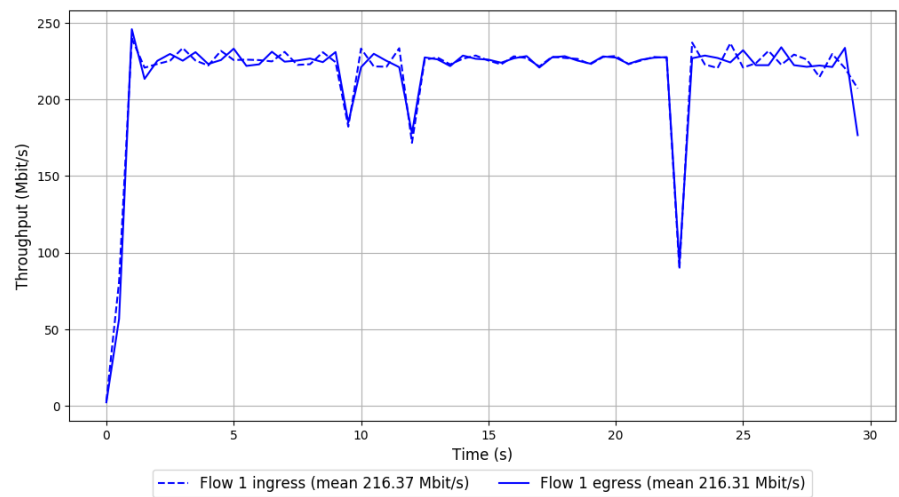
-- Flow 1:

Average throughput: 216.31 Mbit/s

95th percentile per-packet one-way delay: 53.700 ms

Loss rate: 0.37%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 02:59:00

End at: 2017-11-21 02:59:30

Below is generated by plot.py at 2017-11-21 06:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.34 Mbit/s

95th percentile per-packet one-way delay: 54.390 ms

Loss rate: 0.38%

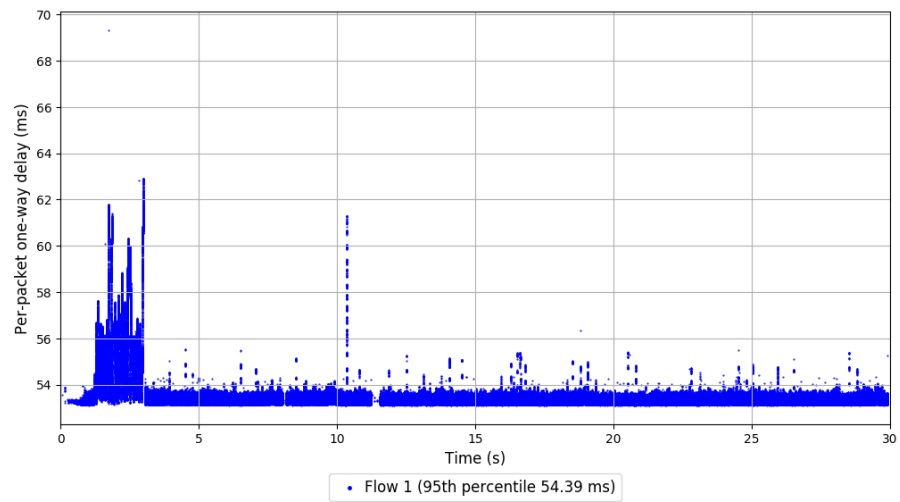
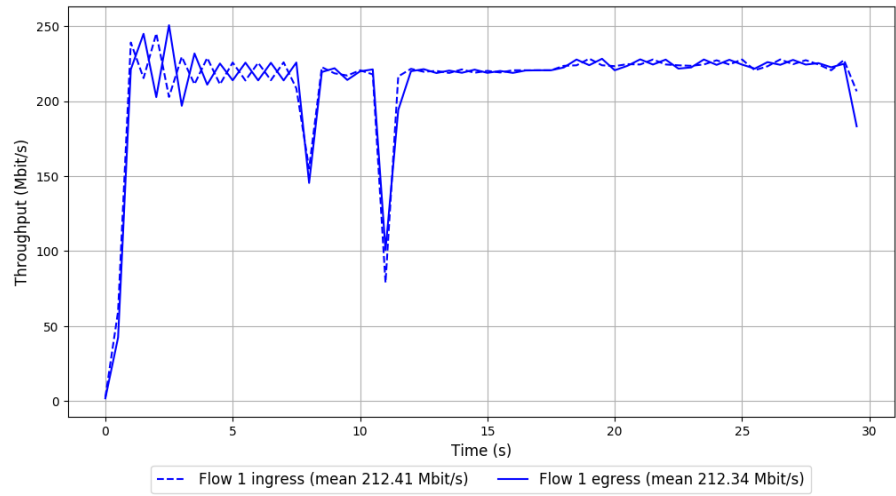
-- Flow 1:

Average throughput: 212.34 Mbit/s

95th percentile per-packet one-way delay: 54.390 ms

Loss rate: 0.38%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 03:09:15

End at: 2017-11-21 03:09:45

Below is generated by plot.py at 2017-11-21 06:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.74 Mbit/s

95th percentile per-packet one-way delay: 54.901 ms

Loss rate: 0.36%

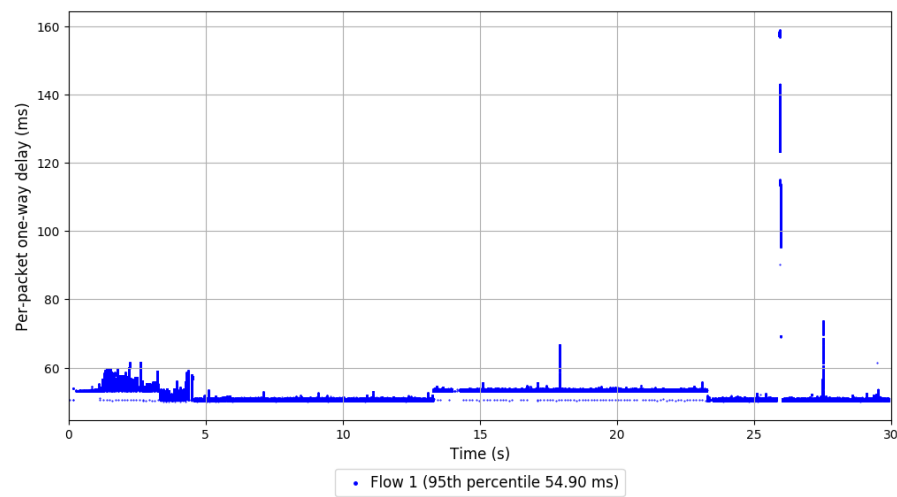
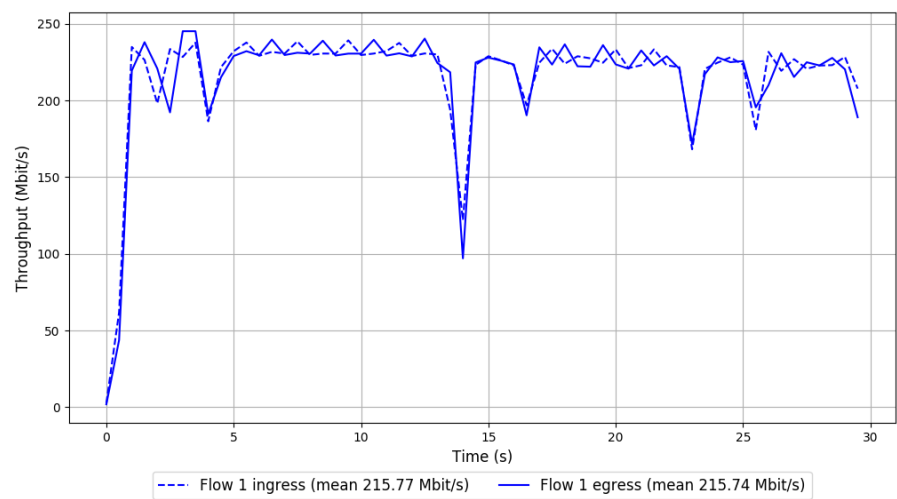
-- Flow 1:

Average throughput: 215.74 Mbit/s

95th percentile per-packet one-way delay: 54.901 ms

Loss rate: 0.36%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 03:19:40

End at: 2017-11-21 03:20:10

Below is generated by plot.py at 2017-11-21 06:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.42 Mbit/s

95th percentile per-packet one-way delay: 56.770 ms

Loss rate: 0.39%

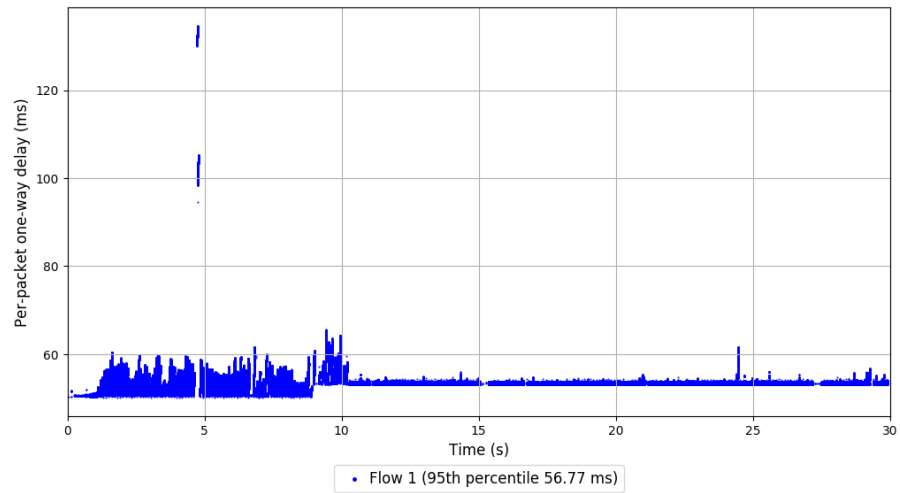
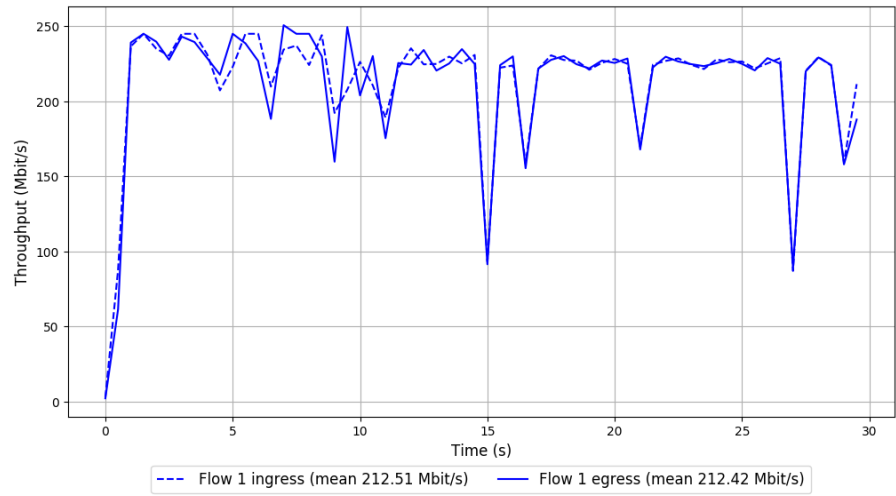
-- Flow 1:

Average throughput: 212.42 Mbit/s

95th percentile per-packet one-way delay: 56.770 ms

Loss rate: 0.39%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 03:29:53

End at: 2017-11-21 03:30:23

Below is generated by plot.py at 2017-11-21 06:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.82 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.40%

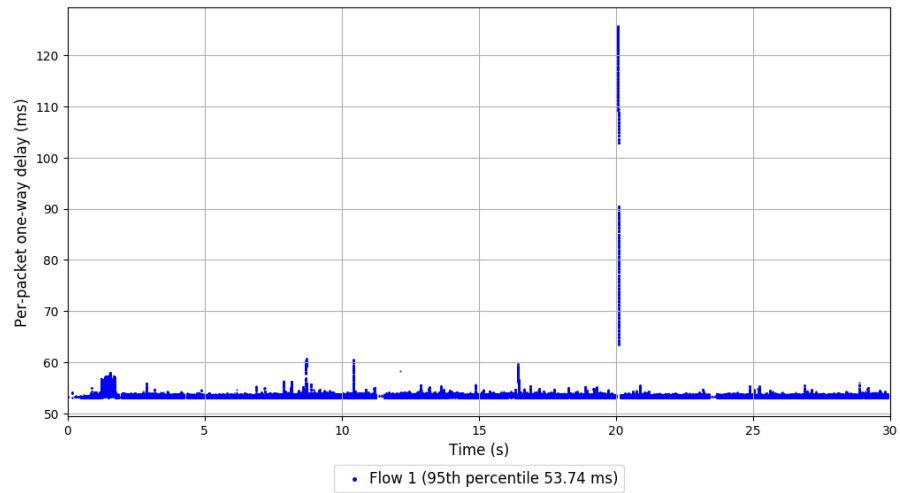
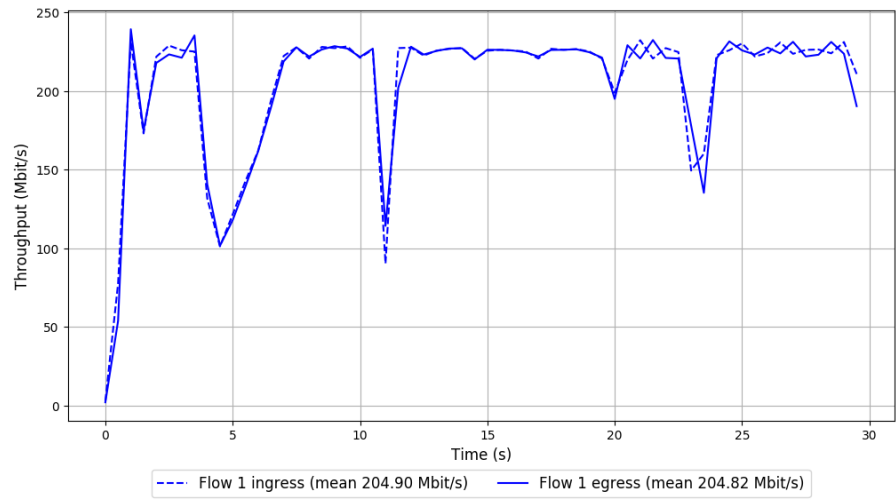
-- Flow 1:

Average throughput: 204.82 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.40%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 03:40:14

End at: 2017-11-21 03:40:44

Below is generated by plot.py at 2017-11-21 06:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.27 Mbit/s

95th percentile per-packet one-way delay: 55.848 ms

Loss rate: 0.40%

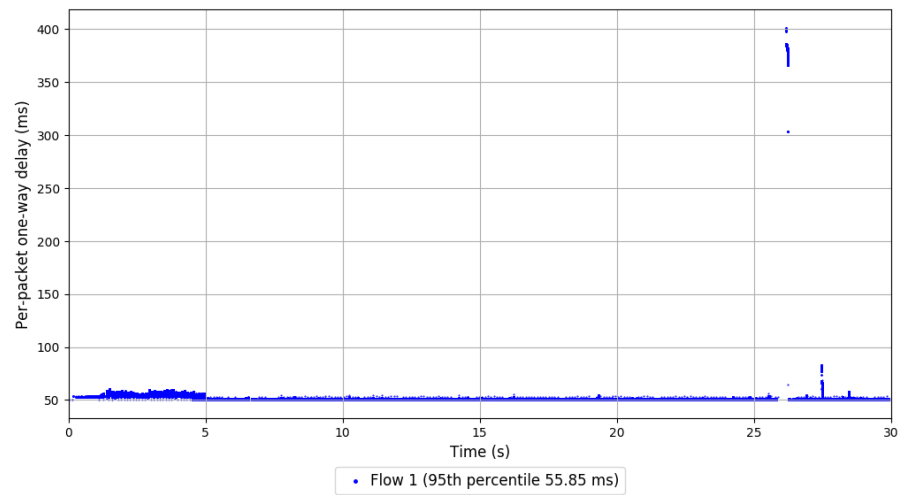
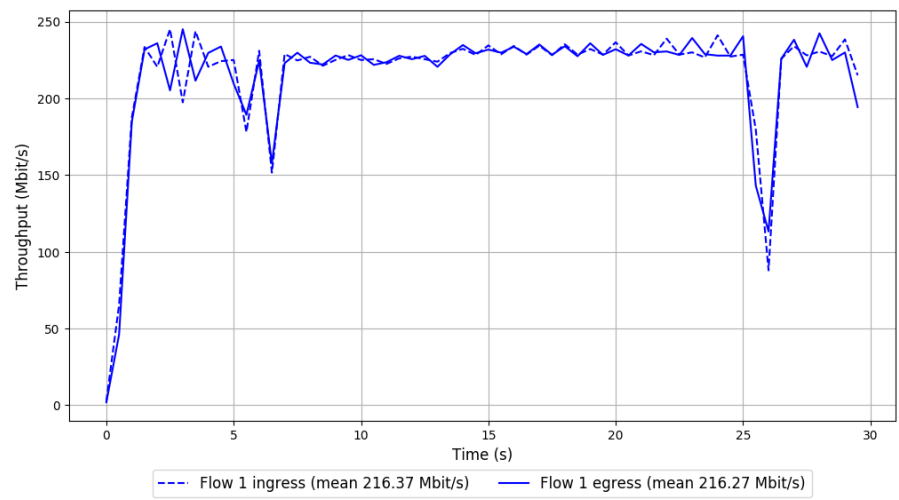
-- Flow 1:

Average throughput: 216.27 Mbit/s

95th percentile per-packet one-way delay: 55.848 ms

Loss rate: 0.40%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 03:50:30

End at: 2017-11-21 03:51:00

Below is generated by plot.py at 2017-11-21 06:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.60 Mbit/s

95th percentile per-packet one-way delay: 53.910 ms

Loss rate: 0.38%

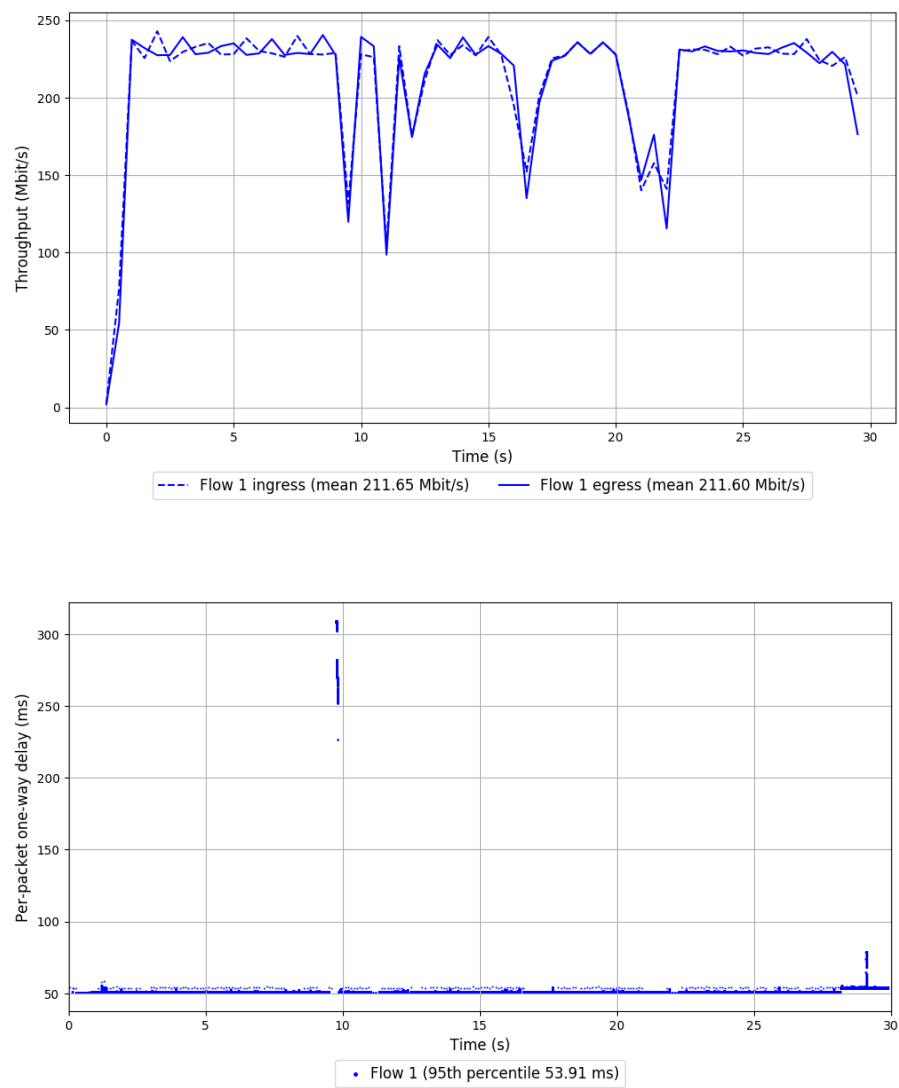
-- Flow 1:

Average throughput: 211.60 Mbit/s

95th percentile per-packet one-way delay: 53.910 ms

Loss rate: 0.38%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 04:00:48

End at: 2017-11-21 04:01:18

Below is generated by plot.py at 2017-11-21 06:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.37%

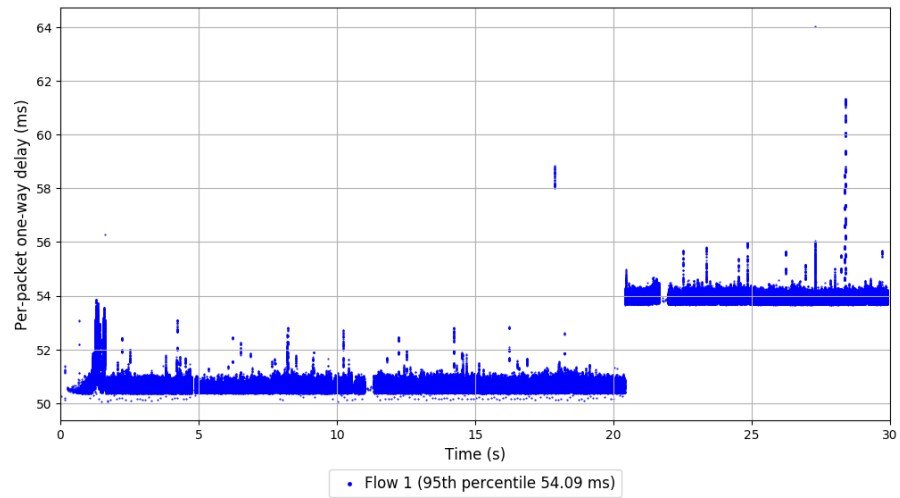
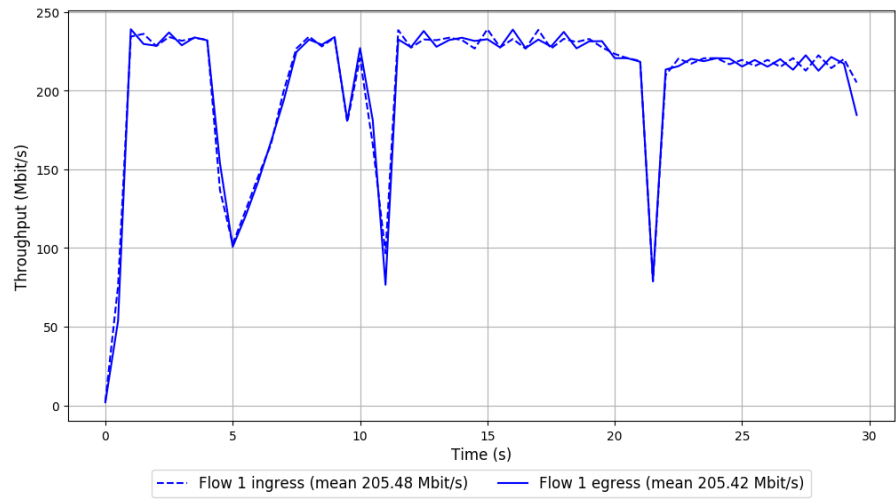
-- Flow 1:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

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

End at: 2017-11-21 04:11:40

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.48 Mbit/s

95th percentile per-packet one-way delay: 54.101 ms

Loss rate: 0.37%

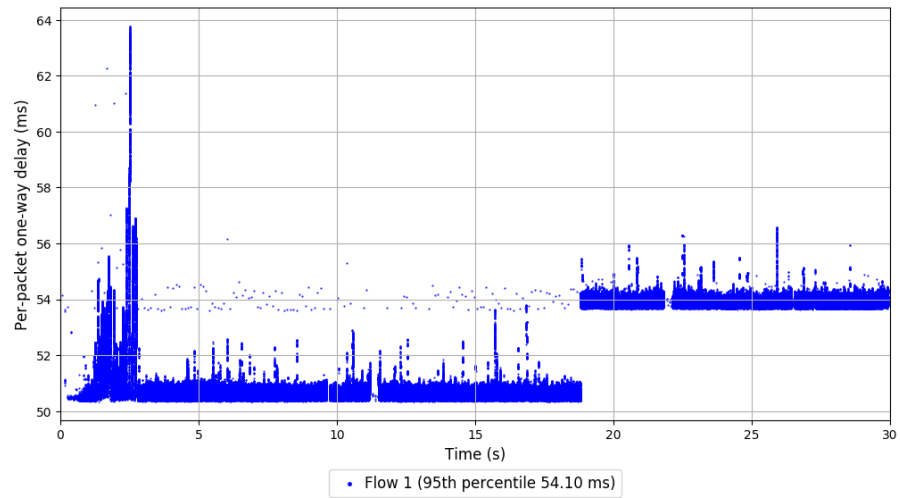
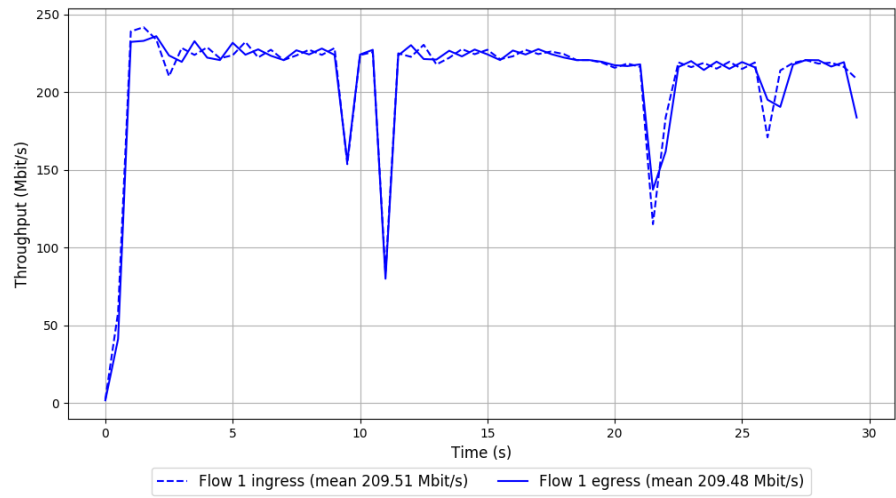
-- Flow 1:

Average throughput: 209.48 Mbit/s

95th percentile per-packet one-way delay: 54.101 ms

Loss rate: 0.37%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 04:21:28

End at: 2017-11-21 04:21:58

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.77 Mbit/s

95th percentile per-packet one-way delay: 54.201 ms

Loss rate: 0.38%

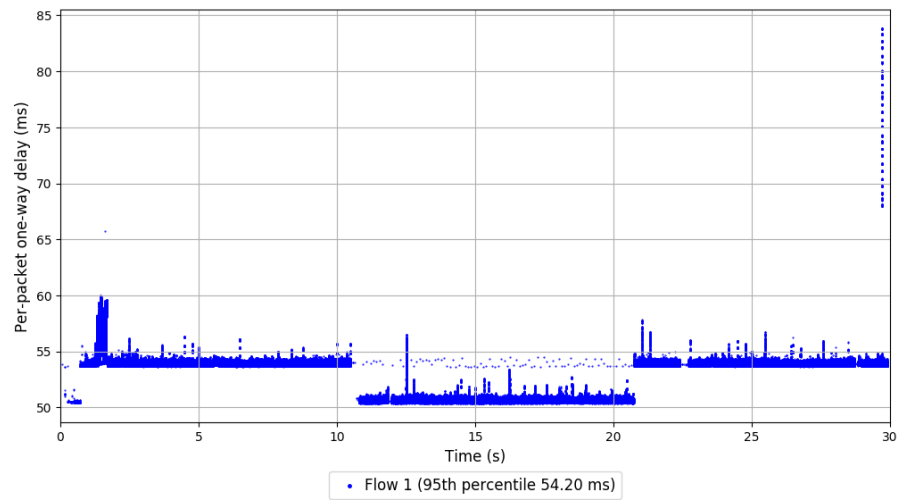
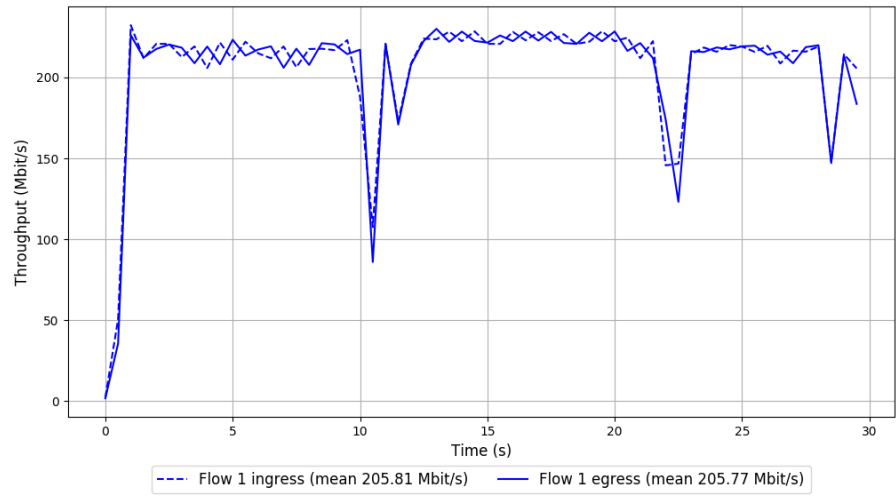
-- Flow 1:

Average throughput: 205.77 Mbit/s

95th percentile per-packet one-way delay: 54.201 ms

Loss rate: 0.38%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 02:40:27

End at: 2017-11-21 02:40:57

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.11 Mbit/s

95th percentile per-packet one-way delay: 59.069 ms

Loss rate: 0.25%

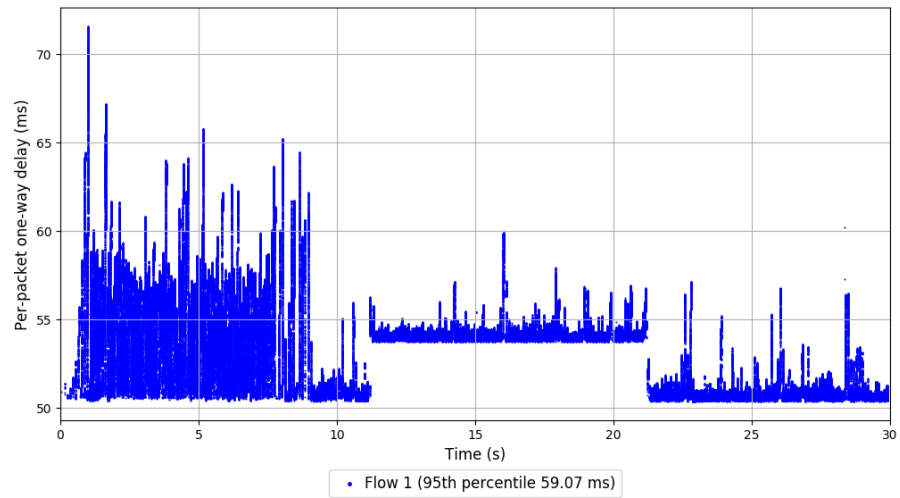
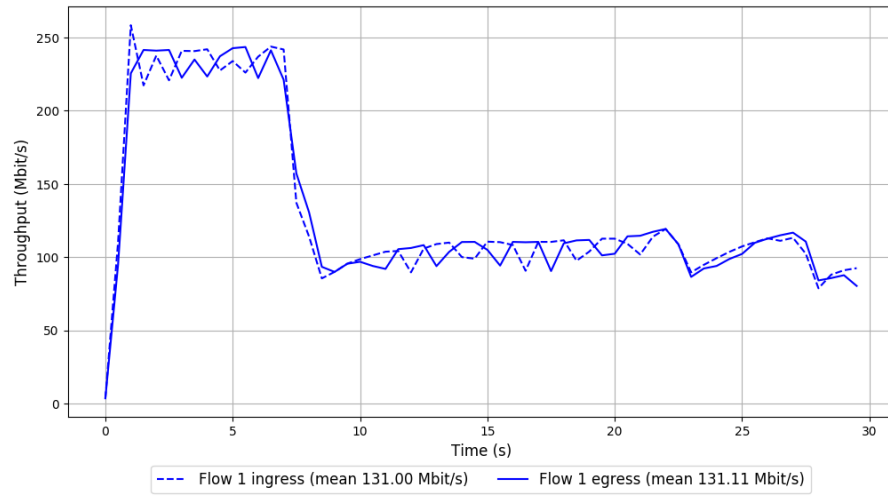
-- Flow 1:

Average throughput: 131.11 Mbit/s

95th percentile per-packet one-way delay: 59.069 ms

Loss rate: 0.25%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 02:50:46

End at: 2017-11-21 02:51:16

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 59.212 ms

Loss rate: 0.21%

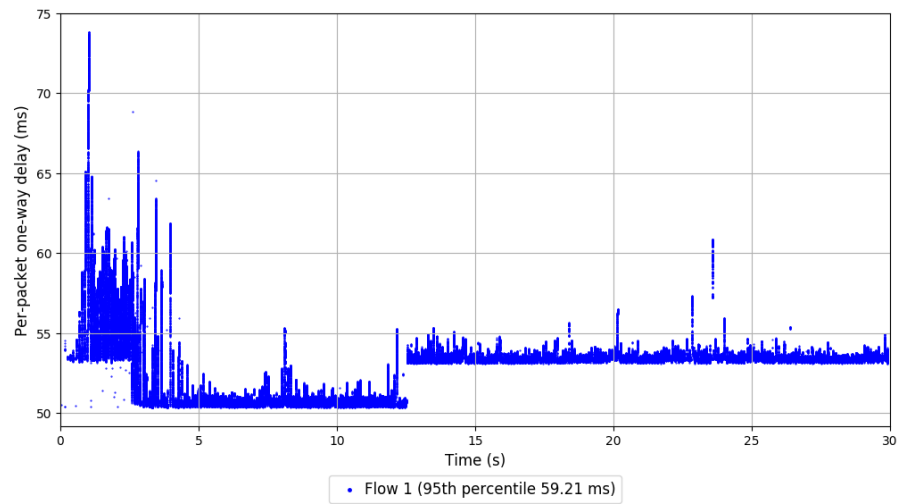
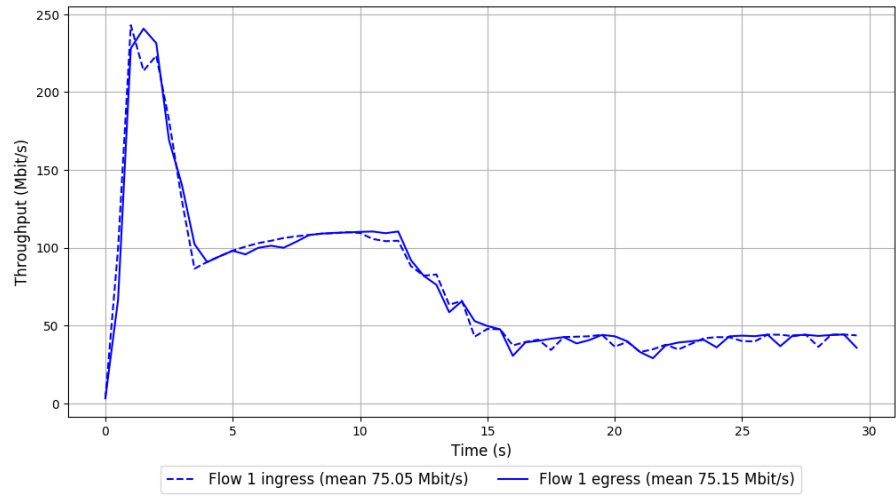
-- Flow 1:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 59.212 ms

Loss rate: 0.21%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 03:01:16

End at: 2017-11-21 03:01:46

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.72 Mbit/s

95th percentile per-packet one-way delay: 54.211 ms

Loss rate: 0.22%

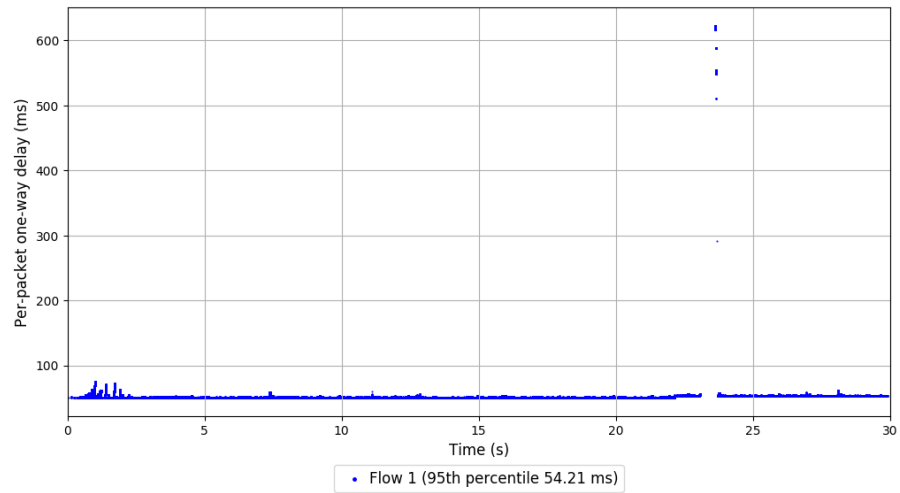
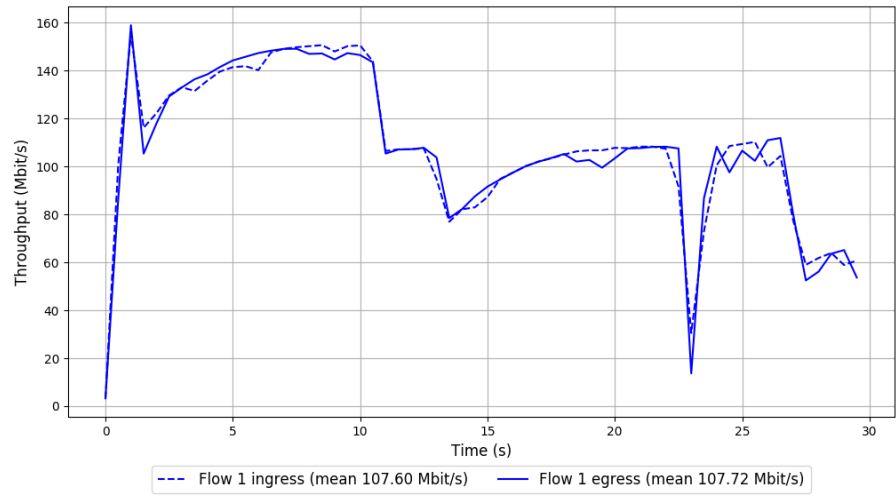
-- Flow 1:

Average throughput: 107.72 Mbit/s

95th percentile per-packet one-way delay: 54.211 ms

Loss rate: 0.22%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

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

End at: 2017-11-21 03:12:02

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.22 Mbit/s

95th percentile per-packet one-way delay: 57.887 ms

Loss rate: 0.35%

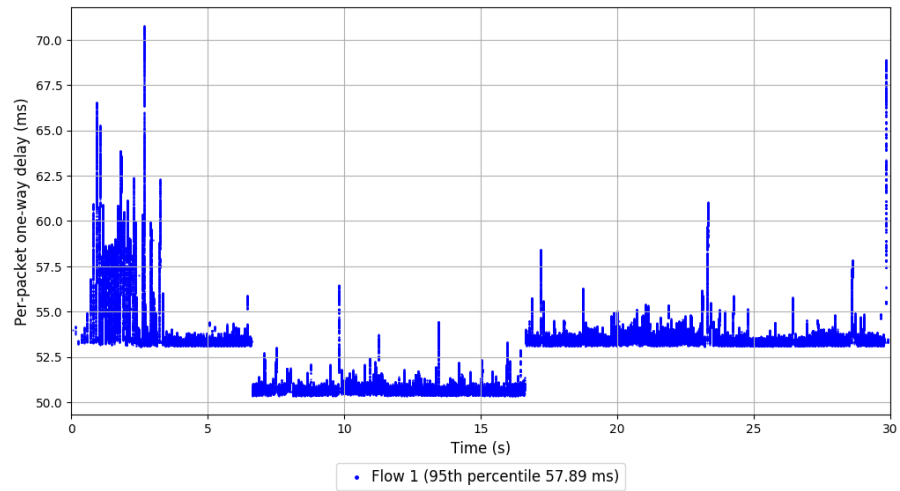
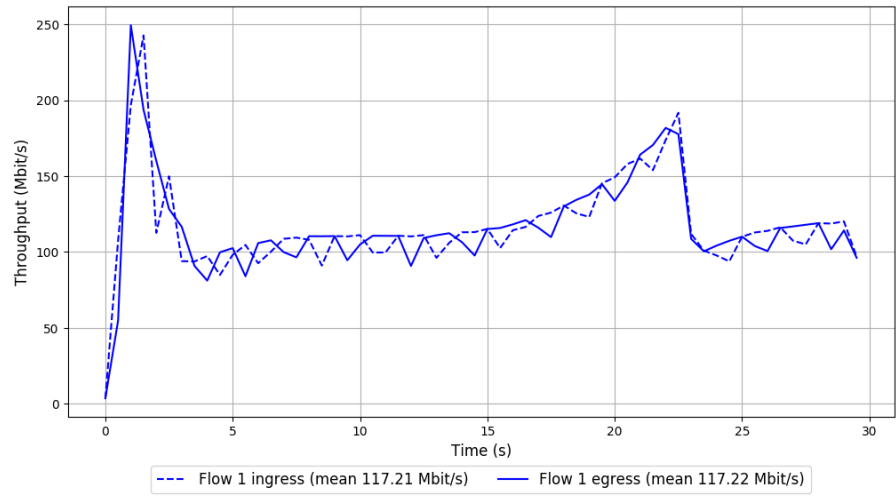
-- Flow 1:

Average throughput: 117.22 Mbit/s

95th percentile per-packet one-way delay: 57.887 ms

Loss rate: 0.35%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2017-11-21 03:22:26

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.40 Mbit/s

95th percentile per-packet one-way delay: 59.392 ms

Loss rate: 0.24%

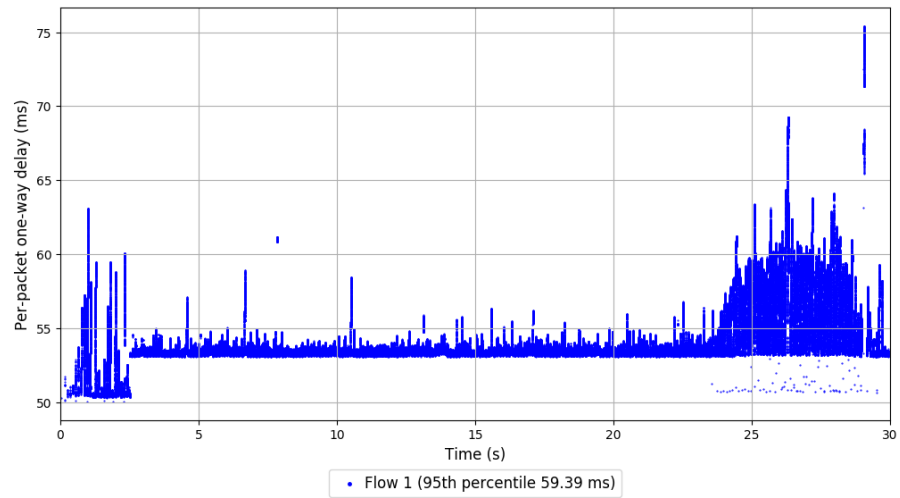
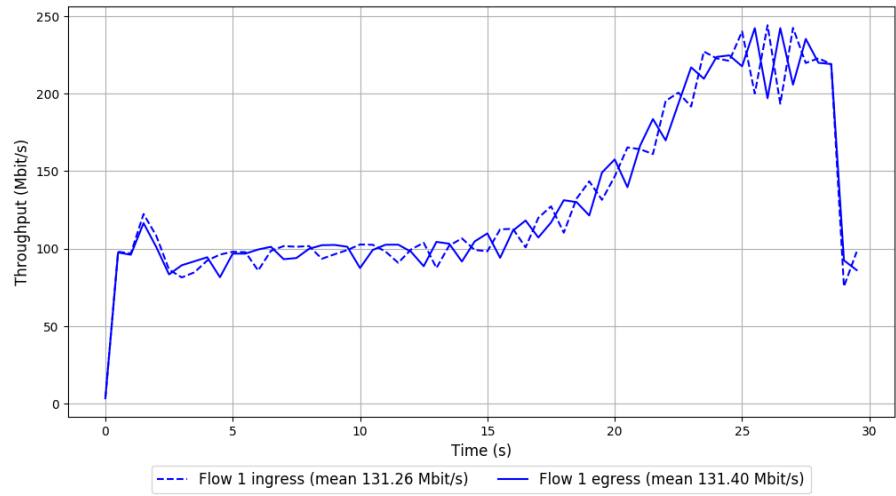
-- Flow 1:

Average throughput: 131.40 Mbit/s

95th percentile per-packet one-way delay: 59.392 ms

Loss rate: 0.24%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 03:32:10

End at: 2017-11-21 03:32:40

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 56.429 ms

Loss rate: 0.32%

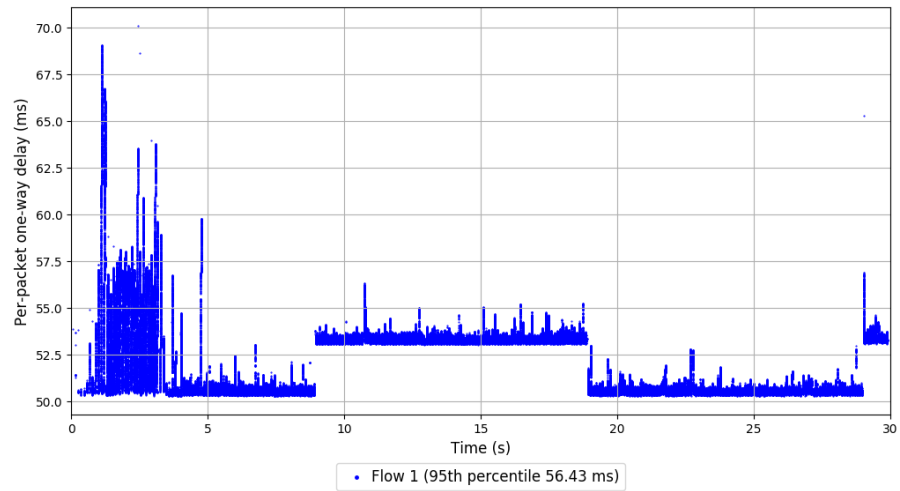
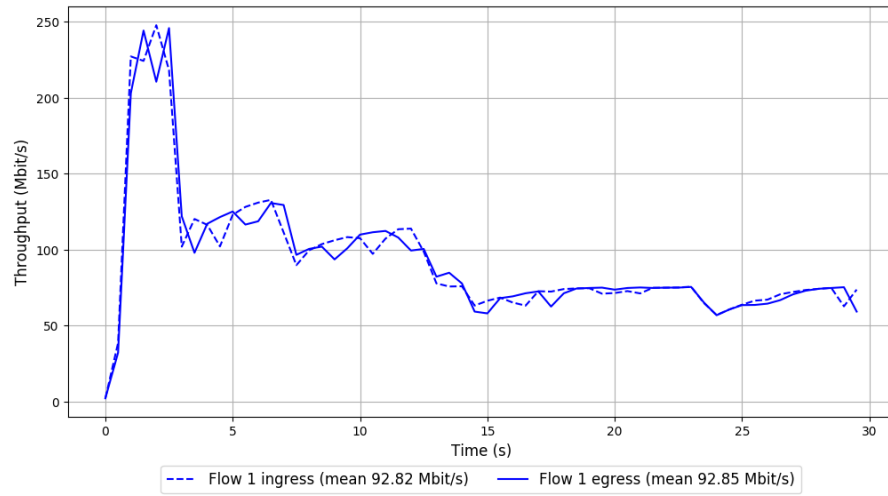
-- Flow 1:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 56.429 ms

Loss rate: 0.32%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 03:42:31

End at: 2017-11-21 03:43:01

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 57.700 ms

Loss rate: 0.22%

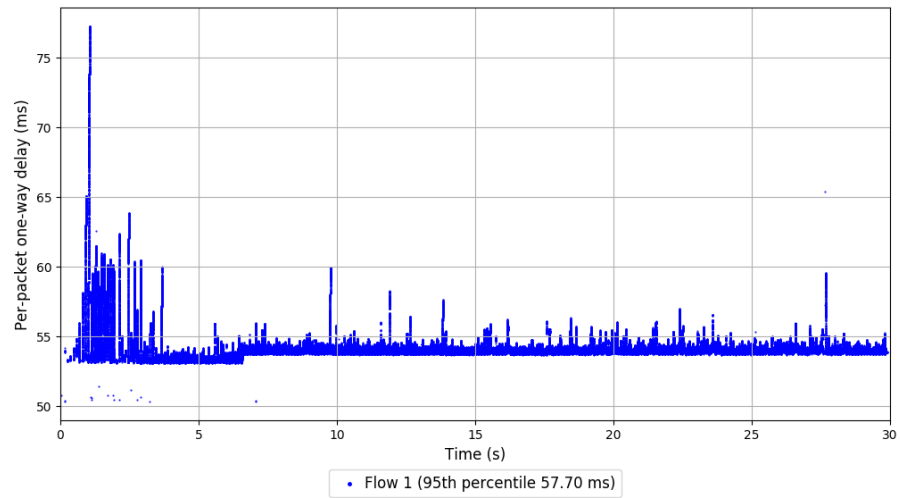
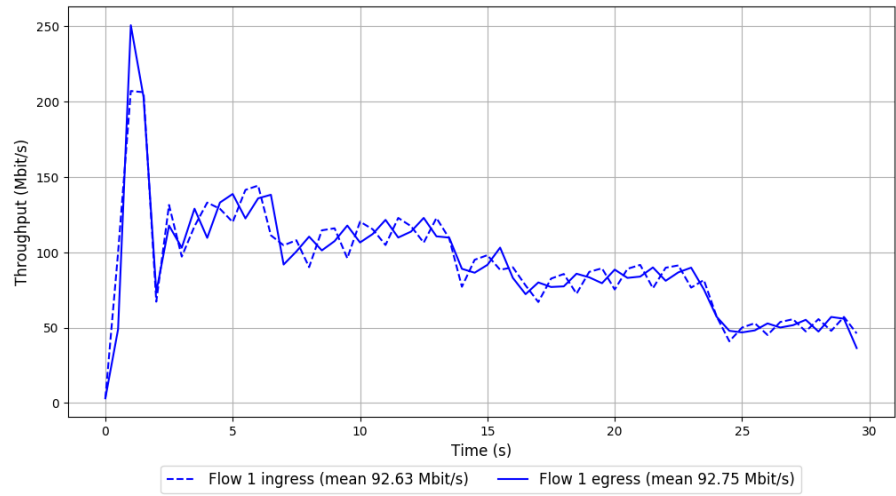
-- Flow 1:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 57.700 ms

Loss rate: 0.22%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 03:52:46

End at: 2017-11-21 03:53:16

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.96 Mbit/s

95th percentile per-packet one-way delay: 55.633 ms

Loss rate: 0.30%

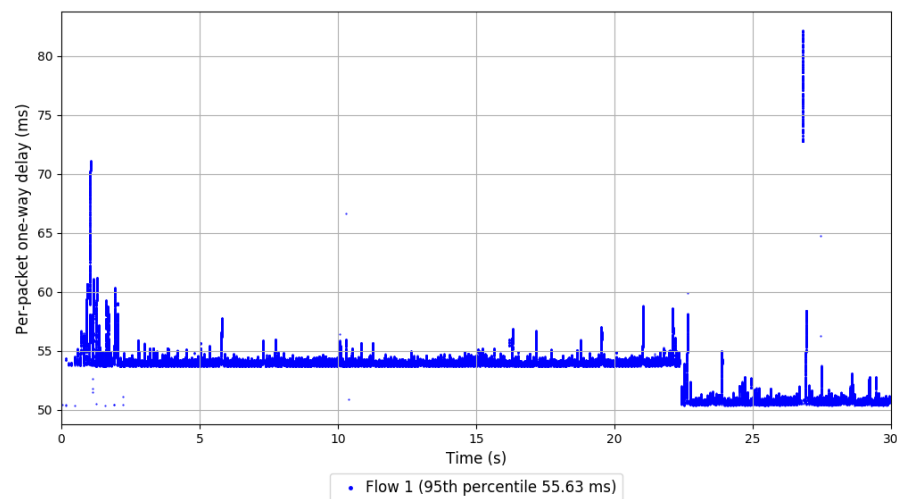
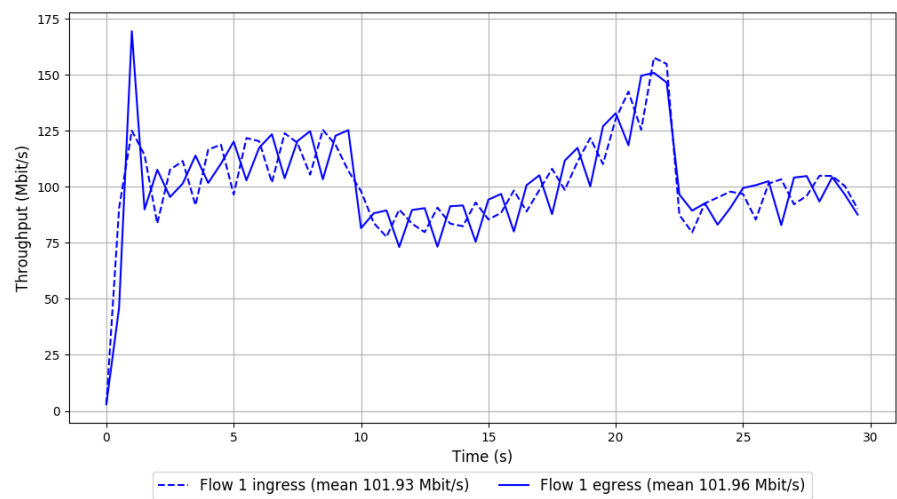
-- Flow 1:

Average throughput: 101.96 Mbit/s

95th percentile per-packet one-way delay: 55.633 ms

Loss rate: 0.30%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

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

End at: 2017-11-21 04:03:34

Below is generated by plot.py at 2017-11-21 06:16:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 55.195 ms

Loss rate: 0.31%

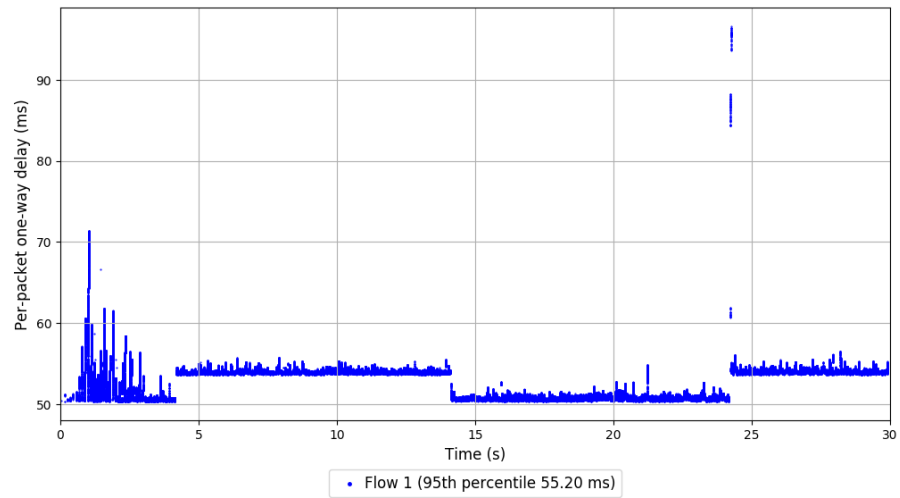
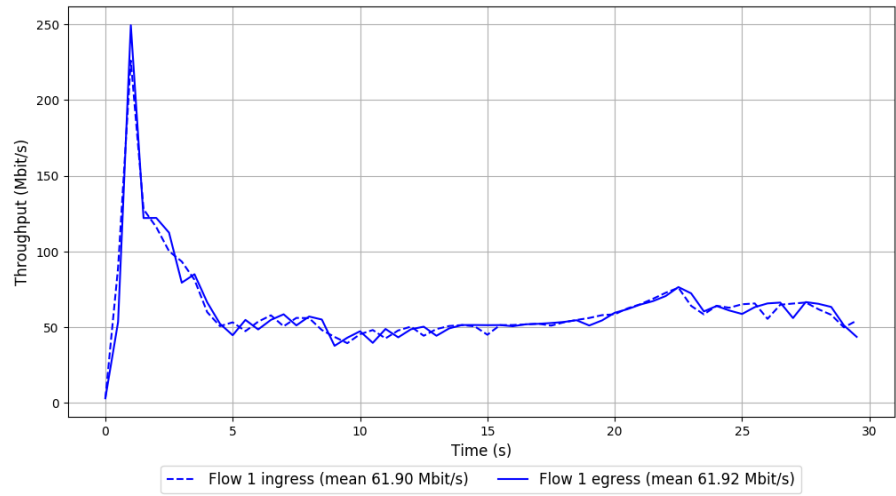
-- Flow 1:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 55.195 ms

Loss rate: 0.31%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 04:13:27

End at: 2017-11-21 04:13:58

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 55.542 ms

Loss rate: 0.46%

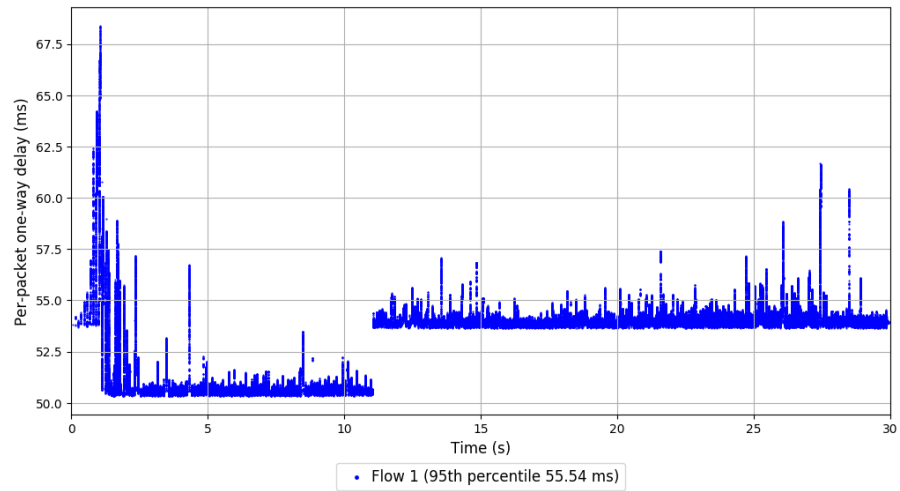
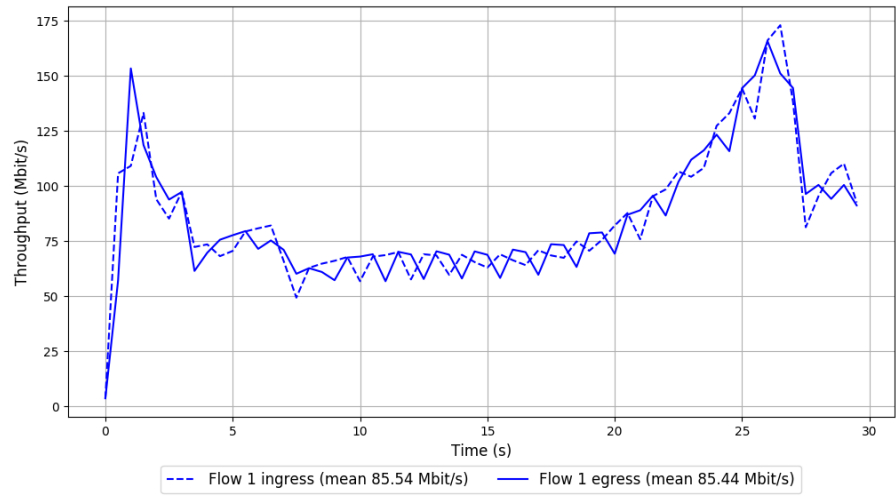
-- Flow 1:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 55.542 ms

Loss rate: 0.46%

Run 10: Report of TCP Cubic — Data Link

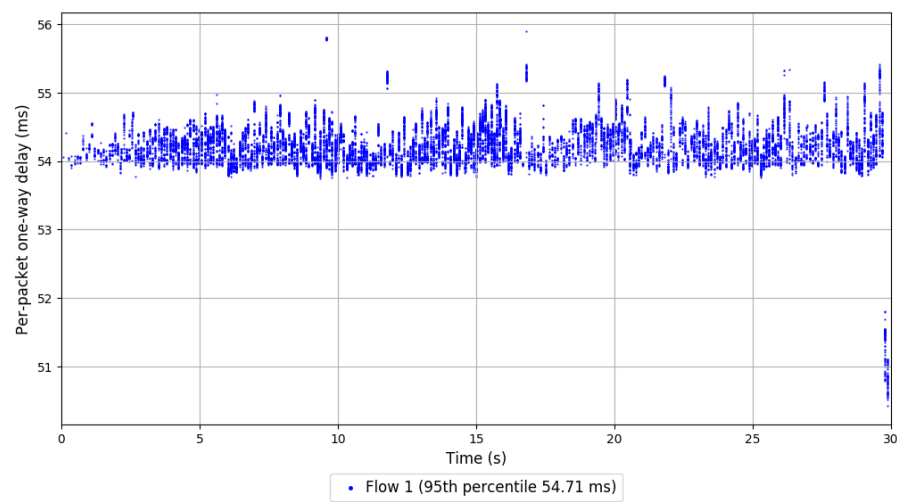
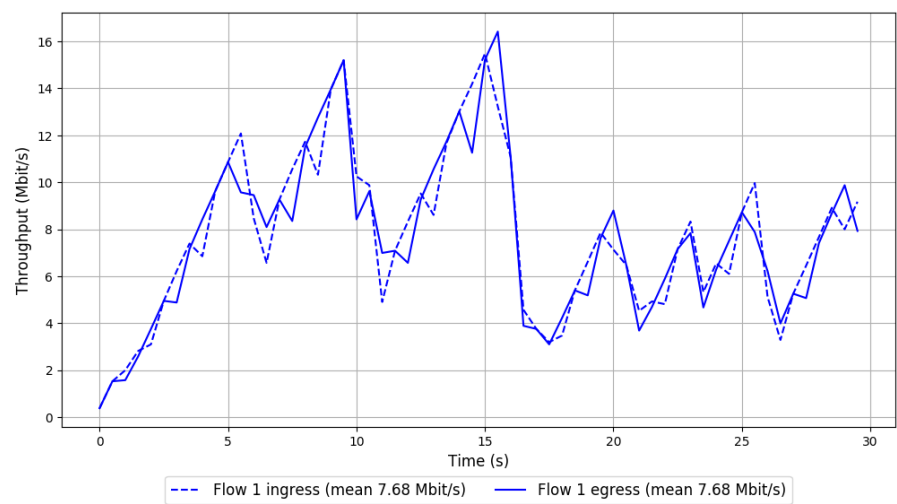


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 02:38:59
End at: 2017-11-21 02:39:29

# Below is generated by plot.py at 2017-11-21 06:16:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 54.712 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 54.712 ms
Loss rate: 0.34%
```


Run 1: Report of LEDBAT — Data Link

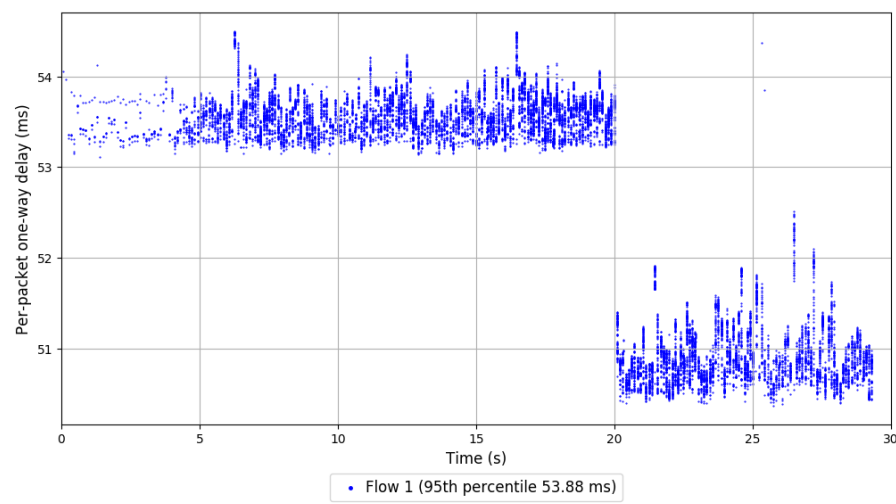
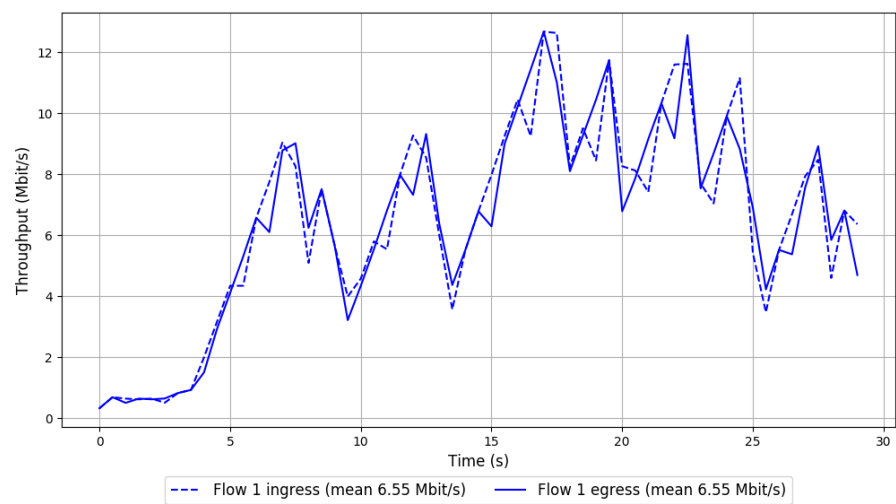


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-21 02:49:18
End at: 2017-11-21 02:49:48

# Below is generated by plot.py at 2017-11-21 06:16:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 53.883 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 53.883 ms
Loss rate: 0.46%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 02:59:48

End at: 2017-11-21 03:00:18

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.64%

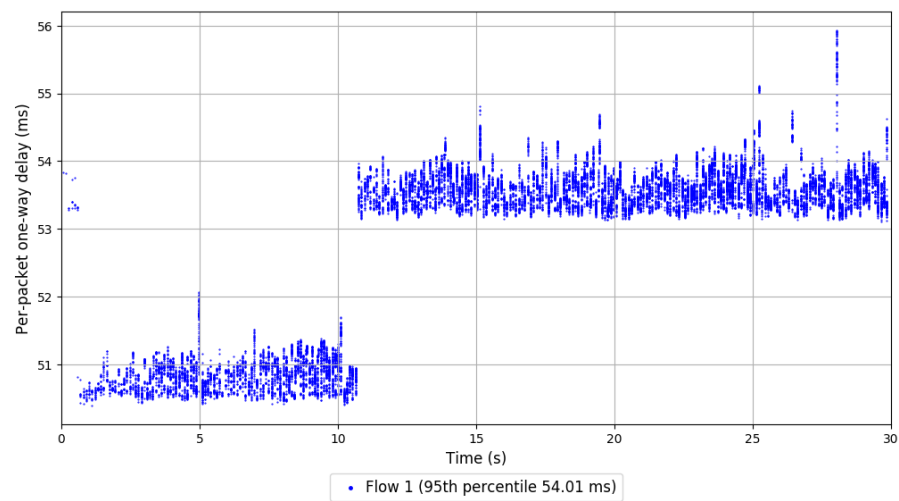
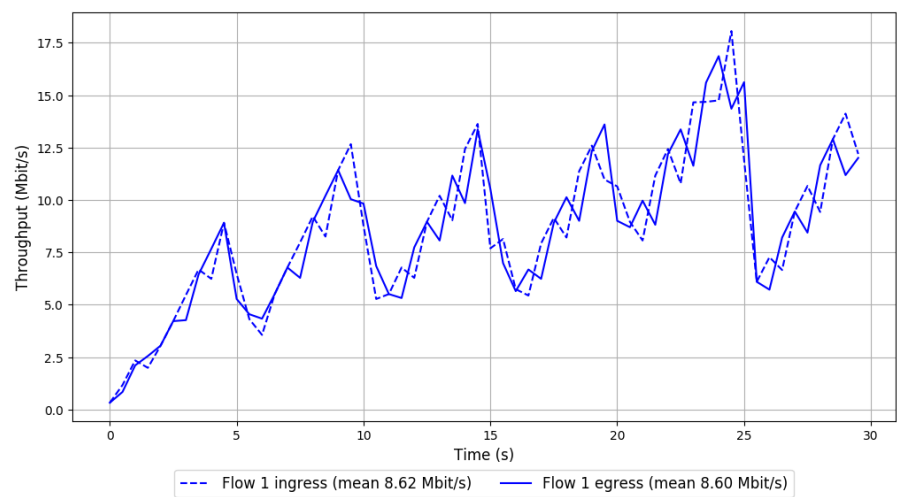
-- Flow 1:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.64%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 03:10:04

End at: 2017-11-21 03:10:34

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 53.940 ms

Loss rate: 0.66%

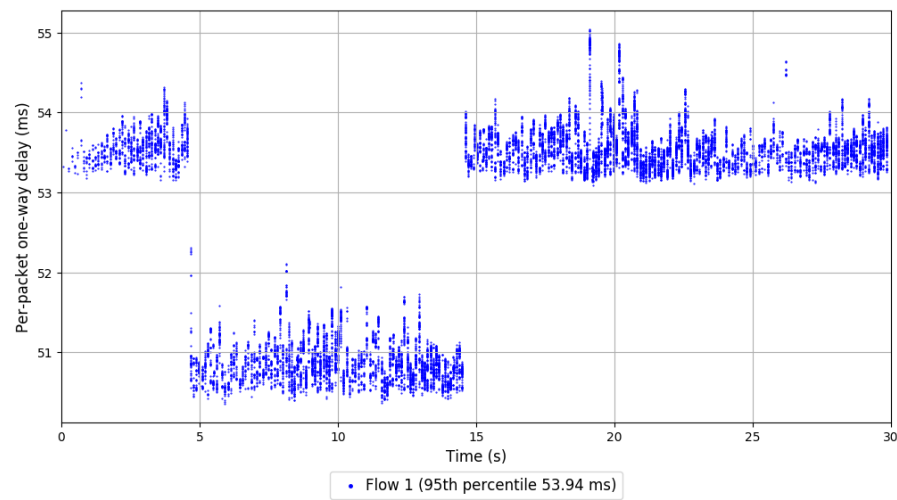
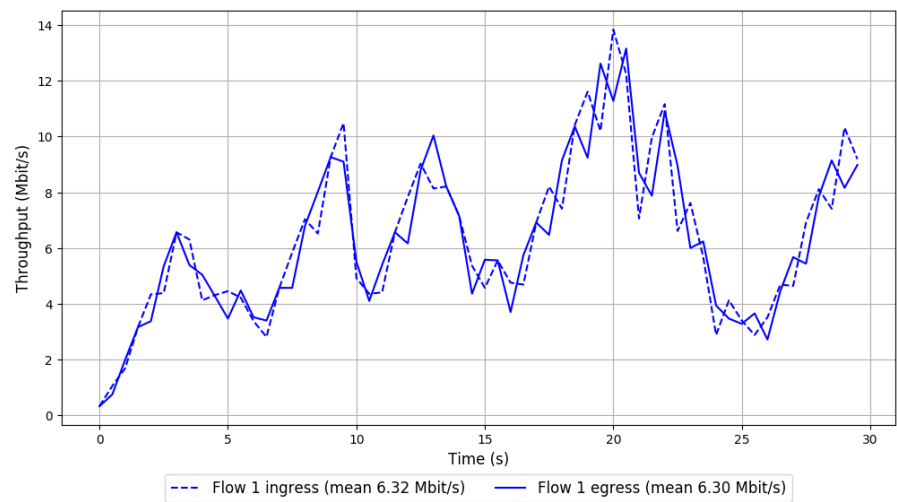
-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 53.940 ms

Loss rate: 0.66%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 03:20:28

End at: 2017-11-21 03:20:58

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 54.326 ms

Loss rate: 0.29%

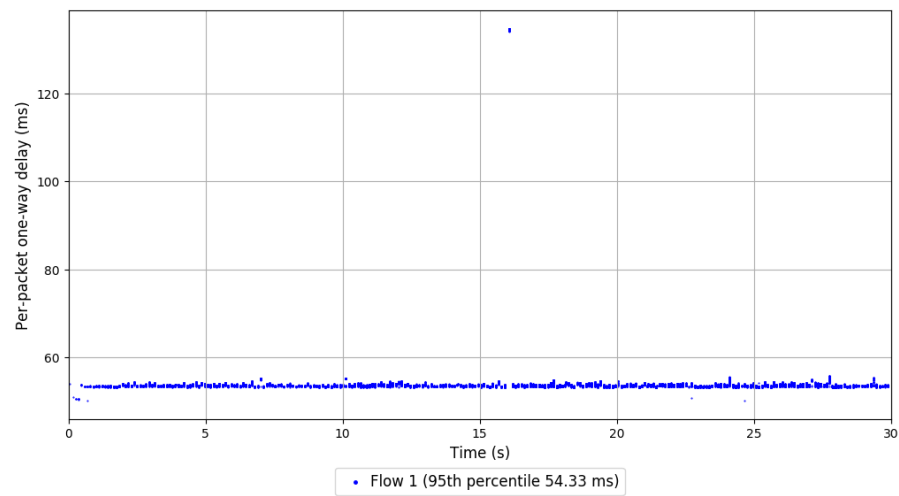
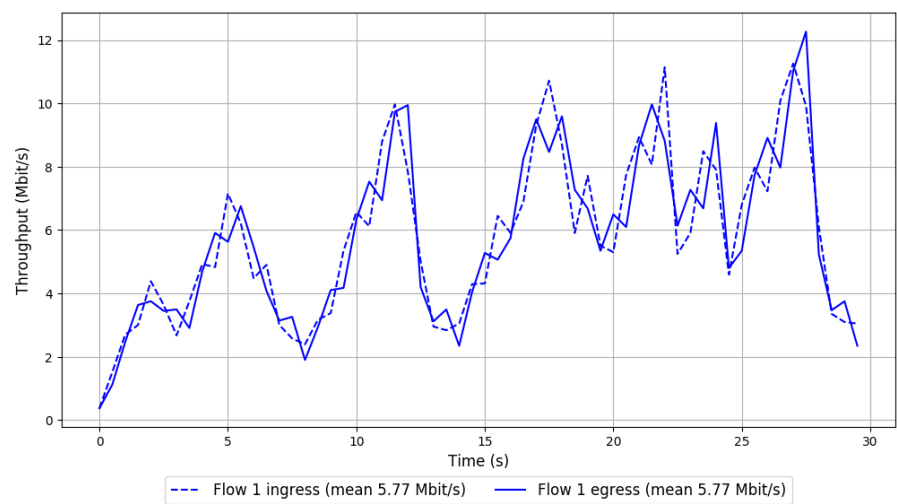
-- Flow 1:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 54.326 ms

Loss rate: 0.29%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 03:30:42

End at: 2017-11-21 03:31:12

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.63 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.52%

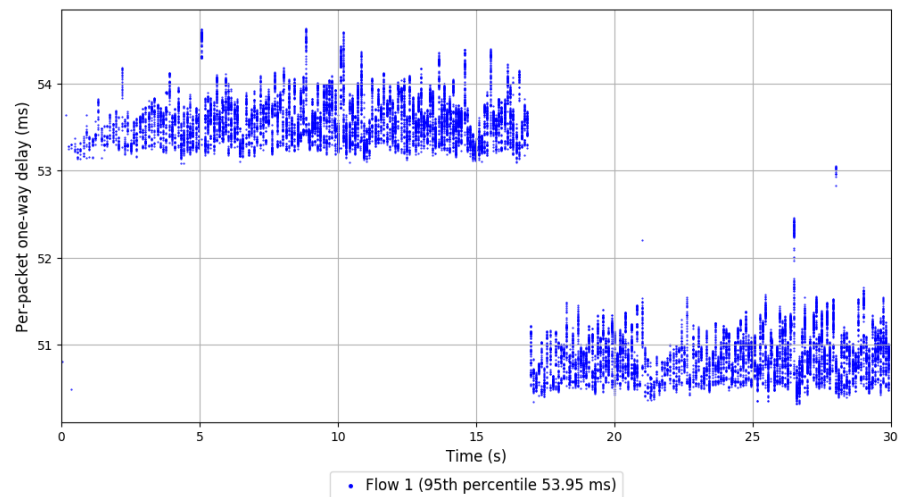
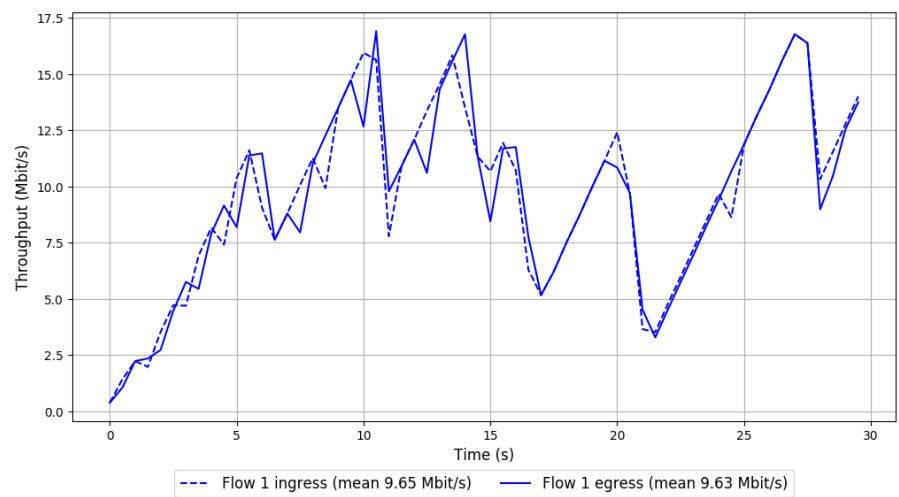
-- Flow 1:

Average throughput: 9.63 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.52%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

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

End at: 2017-11-21 03:41:33

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.77 Mbit/s

95th percentile per-packet one-way delay: 53.412 ms

Loss rate: 0.37%

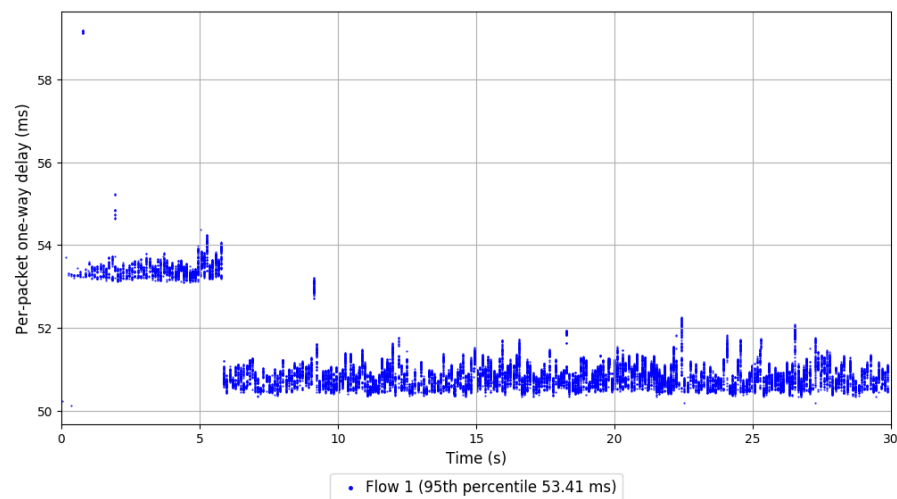
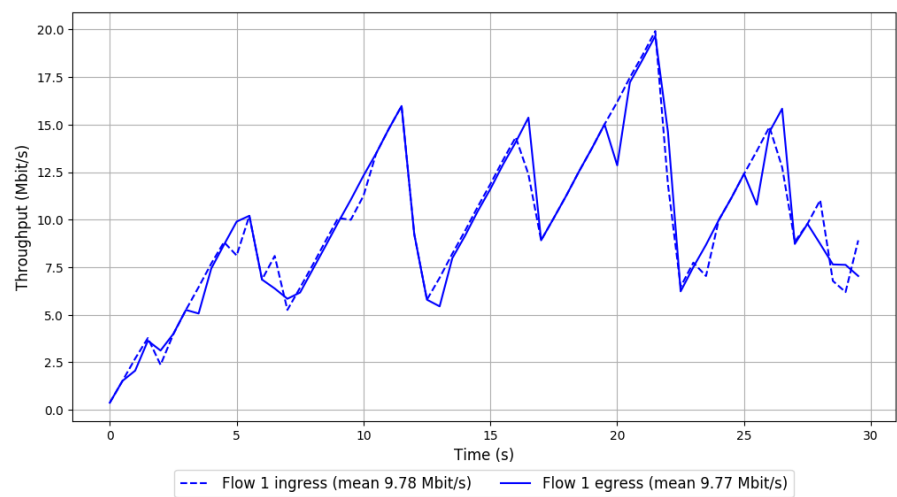
-- Flow 1:

Average throughput: 9.77 Mbit/s

95th percentile per-packet one-way delay: 53.412 ms

Loss rate: 0.37%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 03:51:19

End at: 2017-11-21 03:51:49

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 54.611 ms

Loss rate: 0.40%

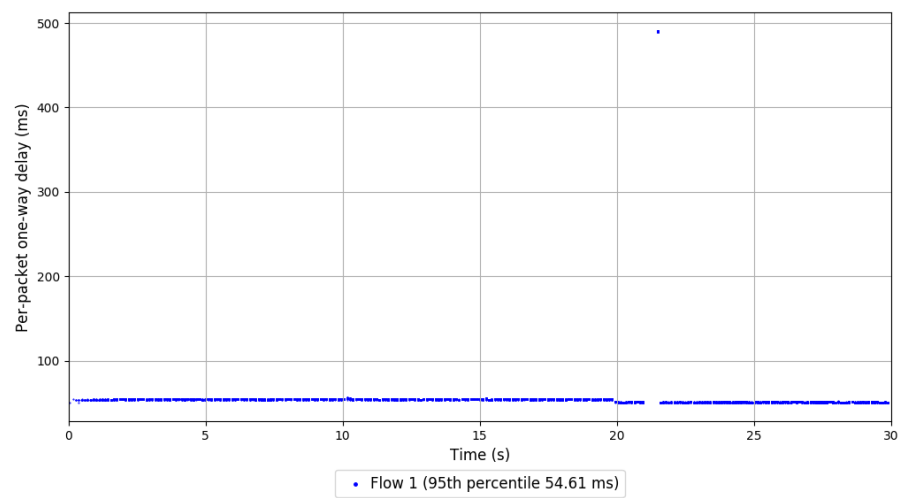
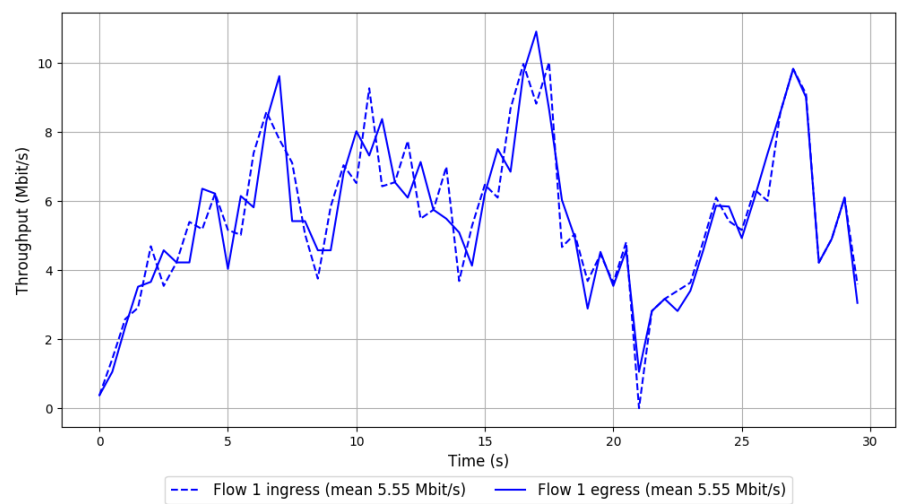
-- Flow 1:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 54.611 ms

Loss rate: 0.40%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 04:01:37

End at: 2017-11-21 04:02:07

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 51.353 ms

Loss rate: 0.47%

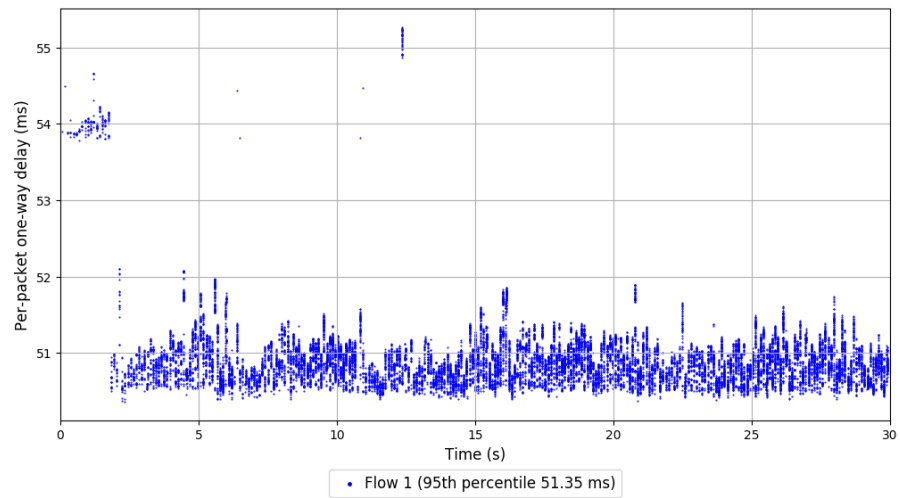
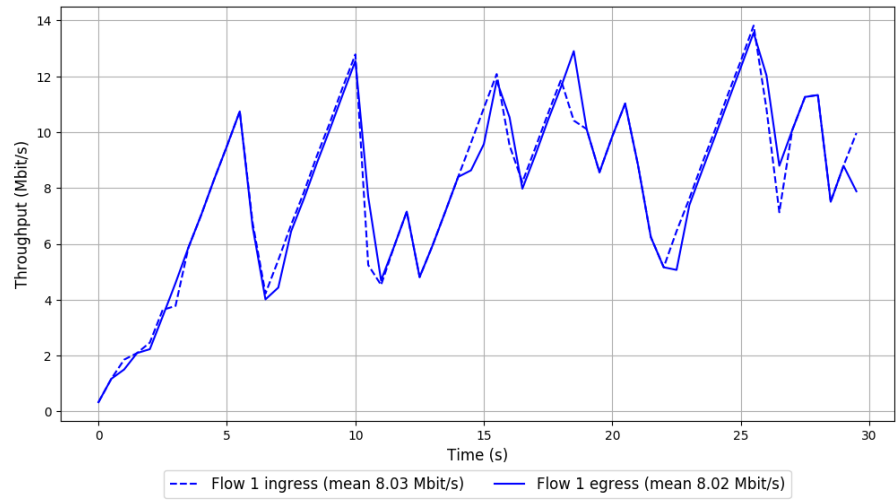
-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 51.353 ms

Loss rate: 0.47%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 04:11:58

End at: 2017-11-21 04:12:28

Below is generated by plot.py at 2017-11-21 06:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.73 Mbit/s

95th percentile per-packet one-way delay: 55.113 ms

Loss rate: 0.26%

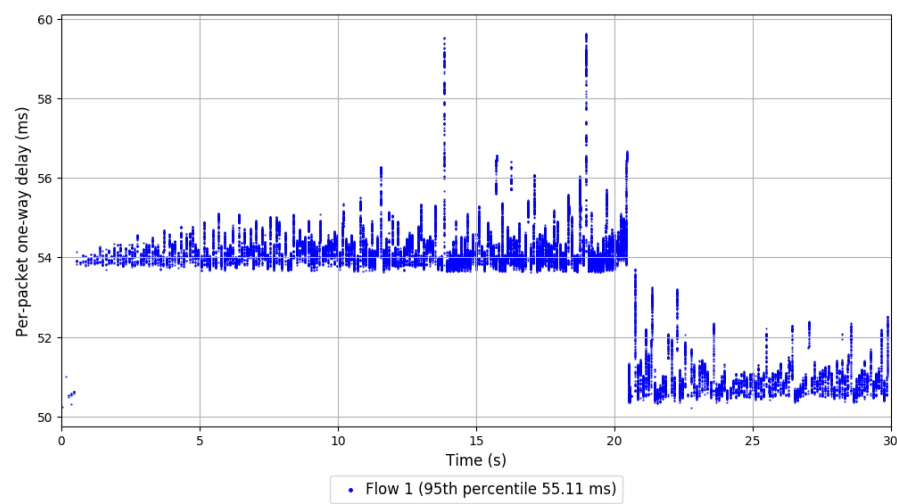
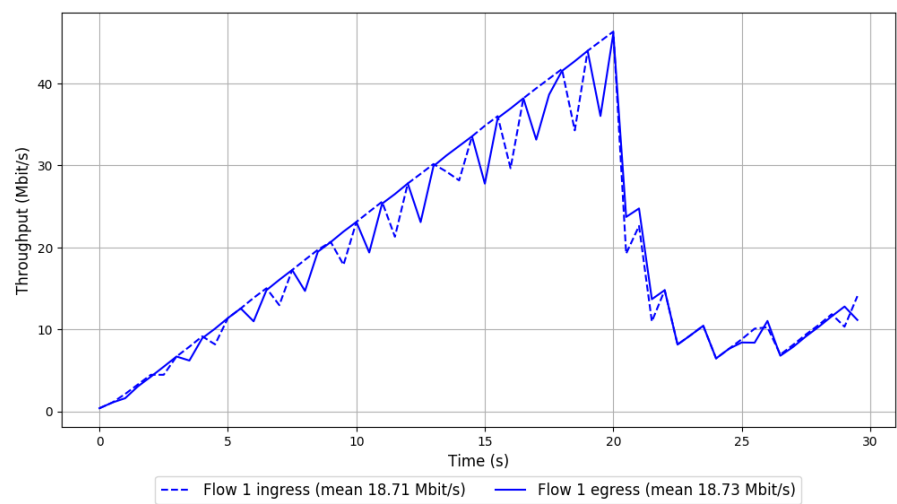
-- Flow 1:

Average throughput: 18.73 Mbit/s

95th percentile per-packet one-way delay: 55.113 ms

Loss rate: 0.26%

Run 10: Report of LEDBAT — Data Link

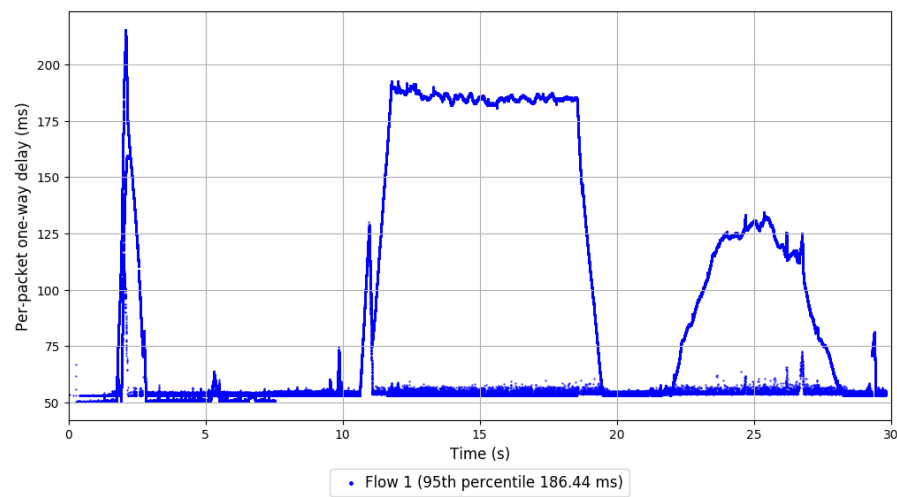
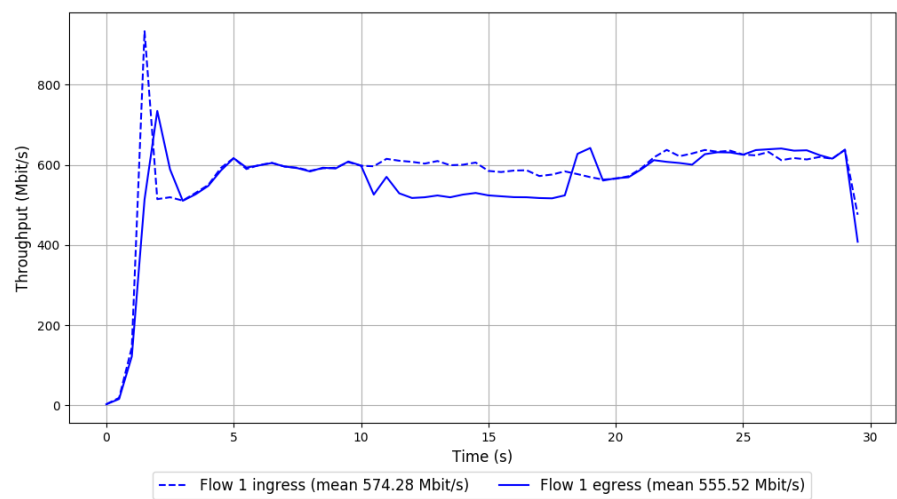


```
Run 1: Statistics of PCC

Start at: 2017-11-21 02:47:31
End at: 2017-11-21 02:48:01

# Below is generated by plot.py at 2017-11-21 06:25:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.52 Mbit/s
95th percentile per-packet one-way delay: 186.439 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 555.52 Mbit/s
95th percentile per-packet one-way delay: 186.439 ms
Loss rate: 3.61%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

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

End at: 2017-11-21 02:58:32

Below is generated by plot.py at 2017-11-21 06:25:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.00 Mbit/s

95th percentile per-packet one-way delay: 120.288 ms

Loss rate: 0.61%

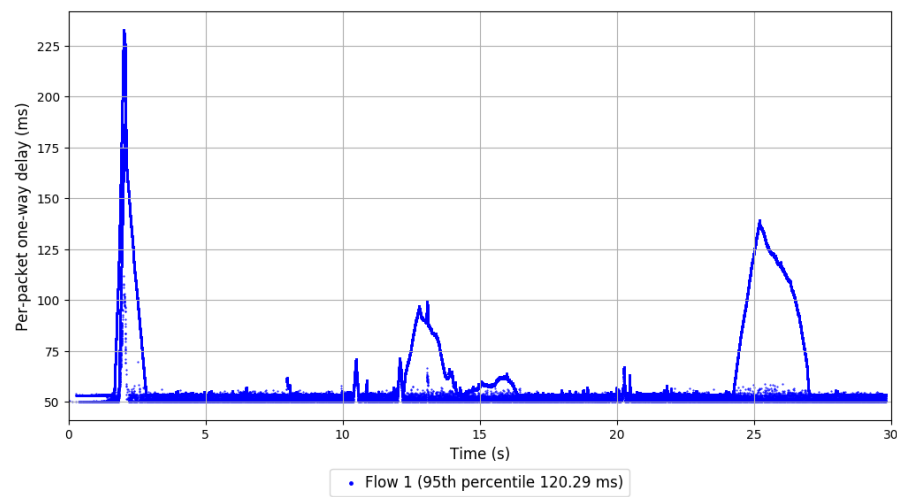
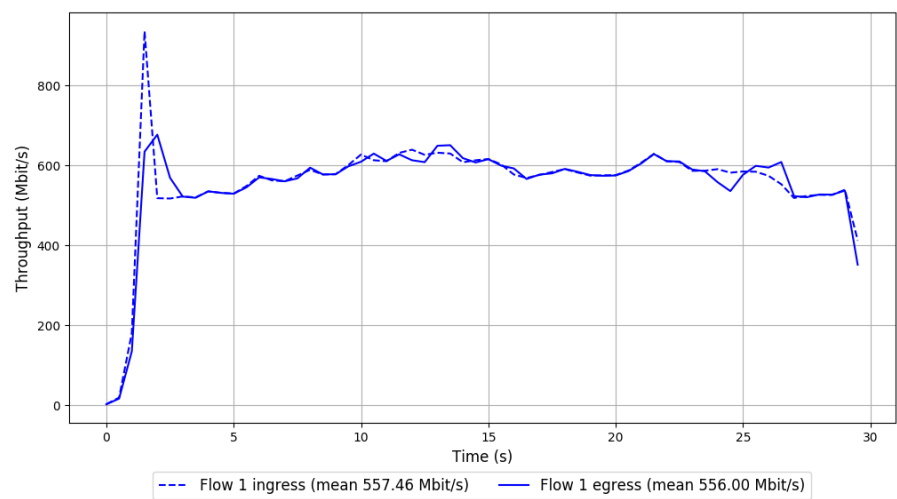
-- Flow 1:

Average throughput: 556.00 Mbit/s

95th percentile per-packet one-way delay: 120.288 ms

Loss rate: 0.61%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-21 03:08:19

End at: 2017-11-21 03:08:49

Below is generated by plot.py at 2017-11-21 06:25:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.98 Mbit/s

95th percentile per-packet one-way delay: 182.801 ms

Loss rate: 1.52%

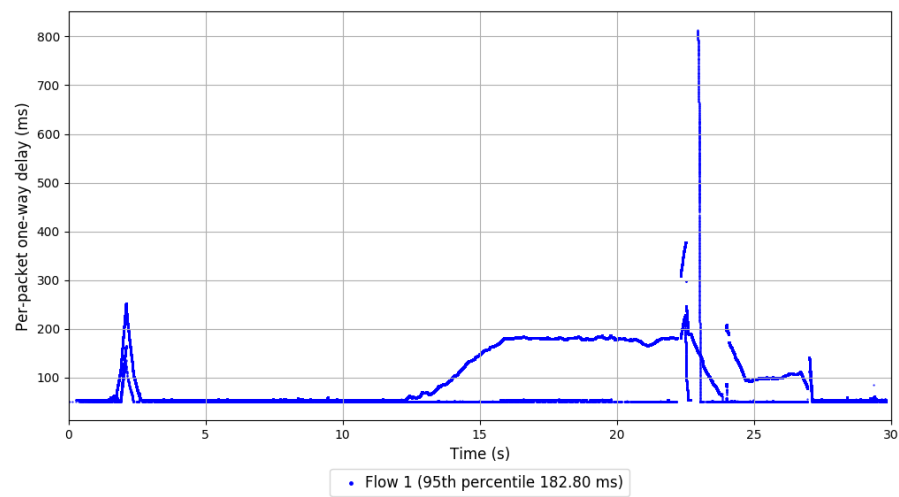
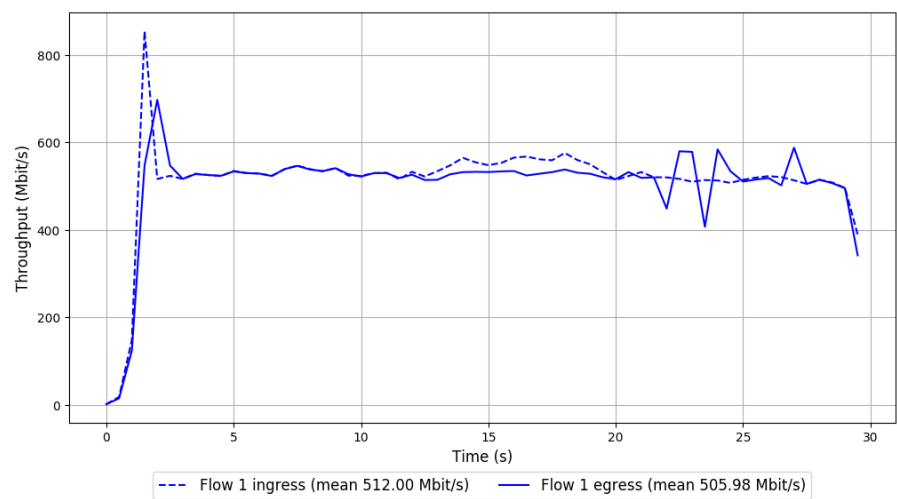
-- Flow 1:

Average throughput: 505.98 Mbit/s

95th percentile per-packet one-way delay: 182.801 ms

Loss rate: 1.52%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 03:18:43

End at: 2017-11-21 03:19:13

Below is generated by plot.py at 2017-11-21 06:25:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.21 Mbit/s

95th percentile per-packet one-way delay: 180.270 ms

Loss rate: 1.56%

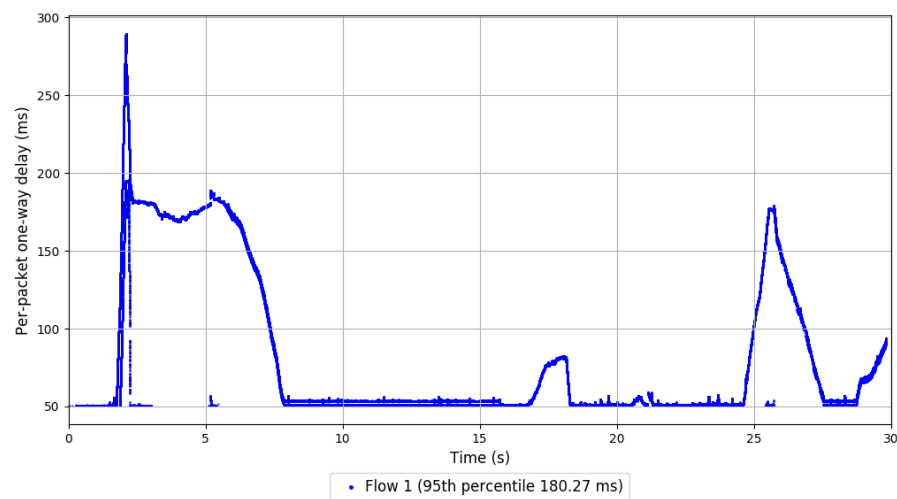
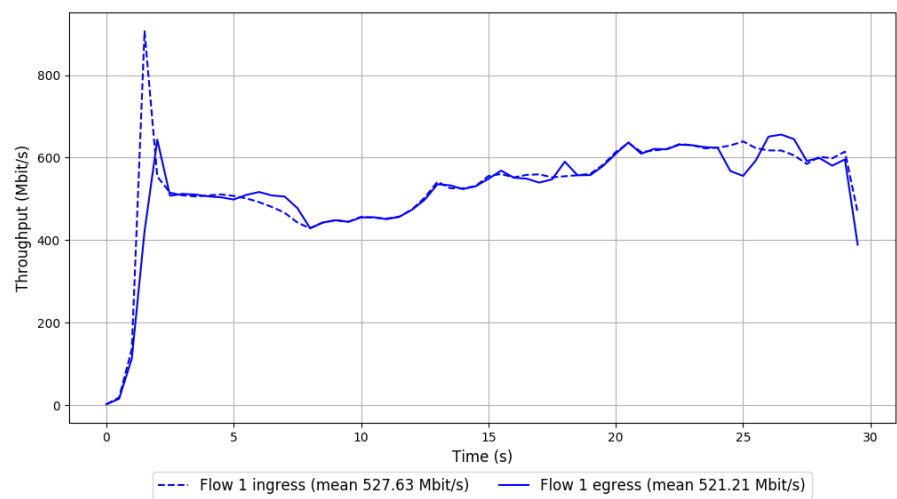
-- Flow 1:

Average throughput: 521.21 Mbit/s

95th percentile per-packet one-way delay: 180.270 ms

Loss rate: 1.56%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 03:28:56

End at: 2017-11-21 03:29:26

Below is generated by plot.py at 2017-11-21 06:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.52 Mbit/s

95th percentile per-packet one-way delay: 179.906 ms

Loss rate: 1.13%

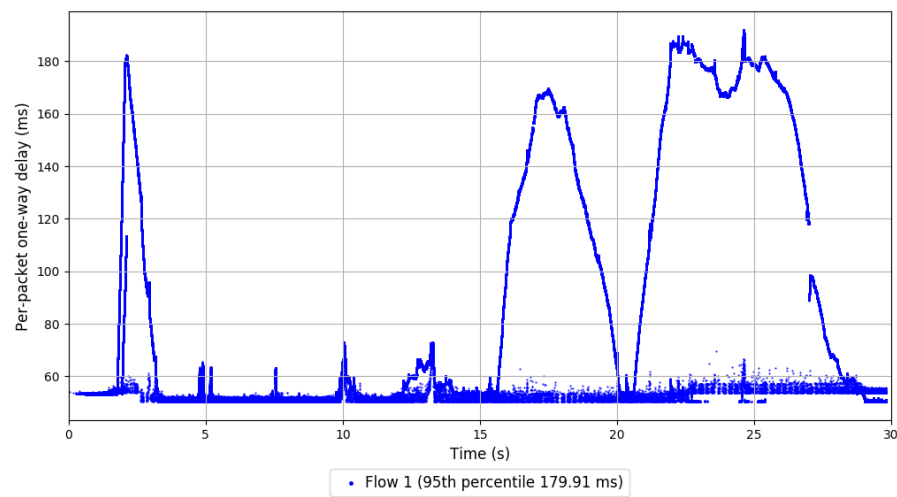
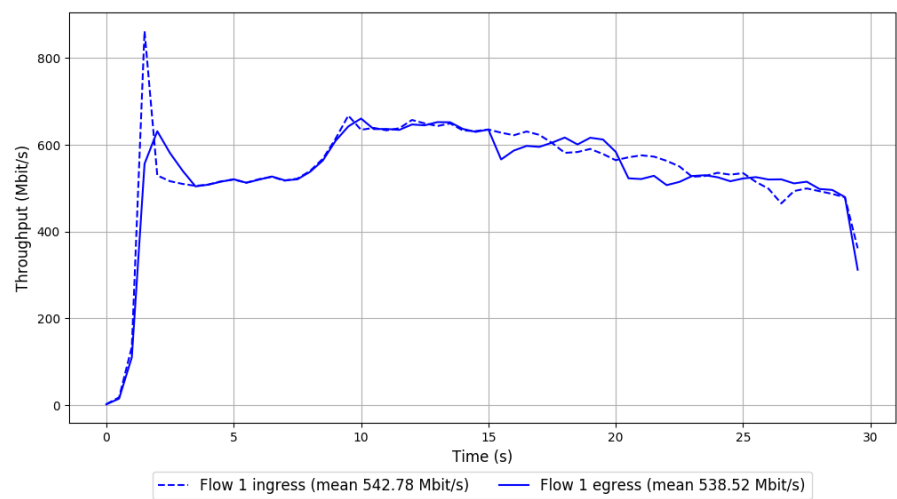
-- Flow 1:

Average throughput: 538.52 Mbit/s

95th percentile per-packet one-way delay: 179.906 ms

Loss rate: 1.13%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 03:39:17

End at: 2017-11-21 03:39:47

Below is generated by plot.py at 2017-11-21 06:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.19 Mbit/s

95th percentile per-packet one-way delay: 182.113 ms

Loss rate: 2.74%

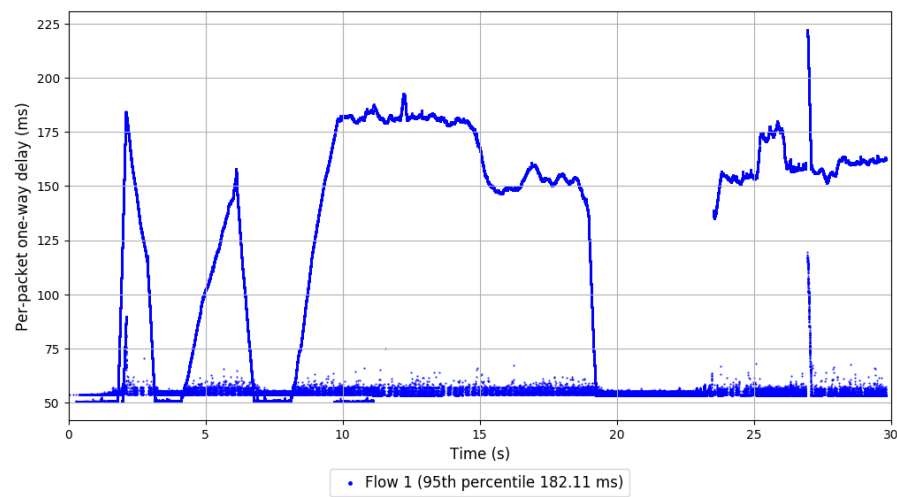
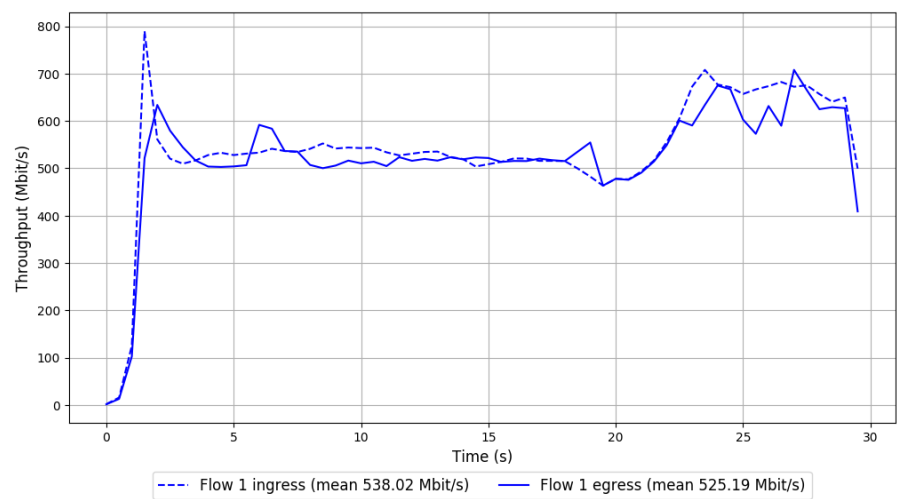
-- Flow 1:

Average throughput: 525.19 Mbit/s

95th percentile per-packet one-way delay: 182.113 ms

Loss rate: 2.74%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 03:49:32

End at: 2017-11-21 03:50:02

Below is generated by plot.py at 2017-11-21 06:26:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.60 Mbit/s

95th percentile per-packet one-way delay: 186.743 ms

Loss rate: 2.80%

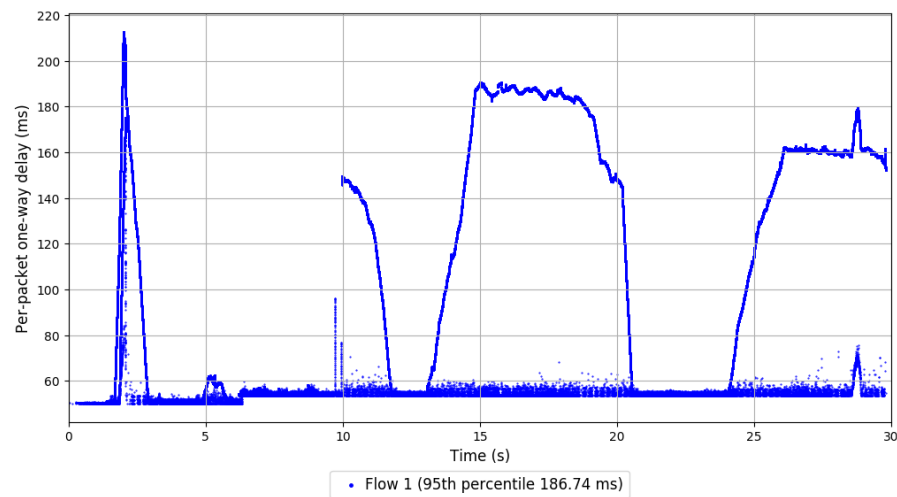
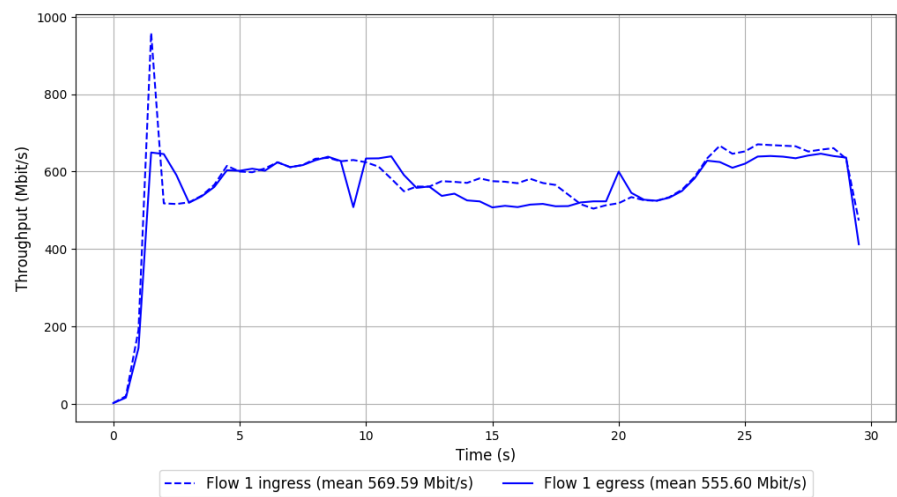
-- Flow 1:

Average throughput: 555.60 Mbit/s

95th percentile per-packet one-way delay: 186.743 ms

Loss rate: 2.80%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

End at: 2017-11-21 04:00:19

Below is generated by plot.py at 2017-11-21 06:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 593.31 Mbit/s

95th percentile per-packet one-way delay: 158.461 ms

Loss rate: 0.78%

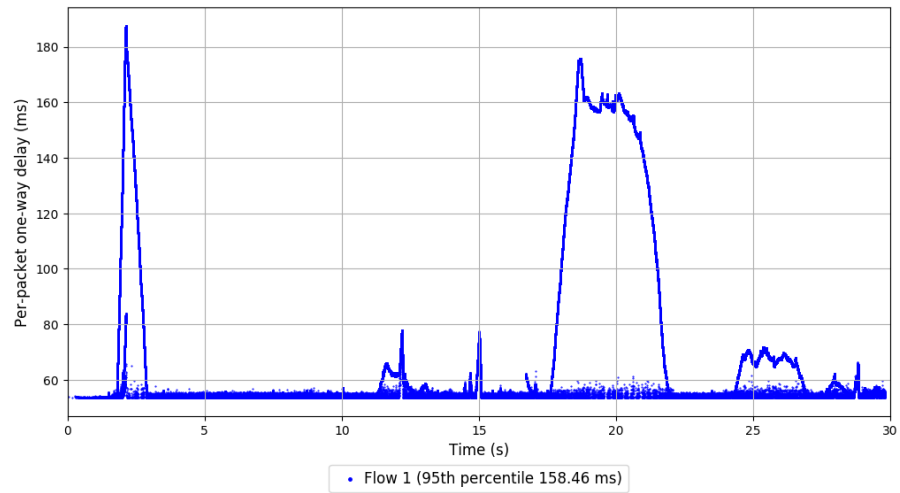
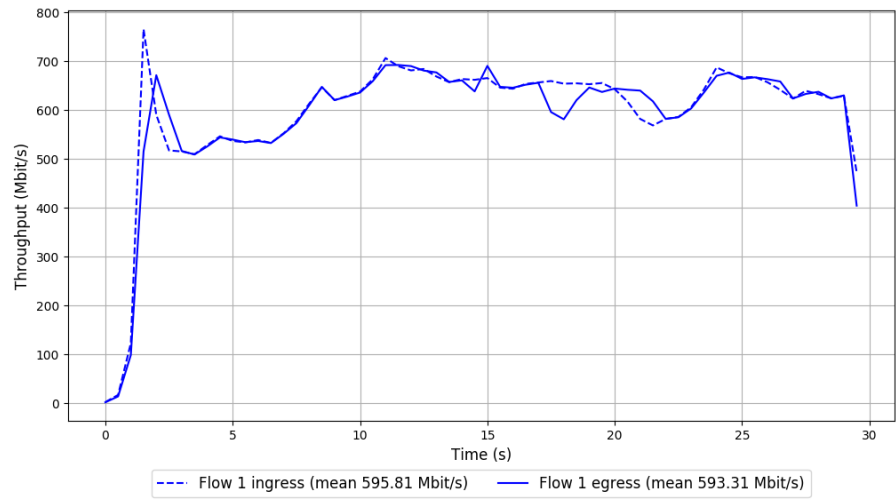
-- Flow 1:

Average throughput: 593.31 Mbit/s

95th percentile per-packet one-way delay: 158.461 ms

Loss rate: 0.78%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-21 04:10:12

End at: 2017-11-21 04:10:42

Below is generated by plot.py at 2017-11-21 06:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.53 Mbit/s

95th percentile per-packet one-way delay: 164.105 ms

Loss rate: 3.18%

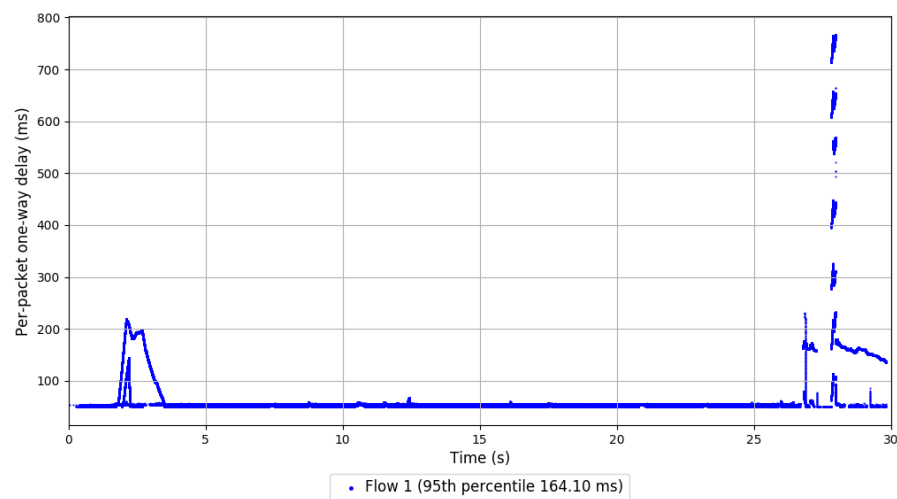
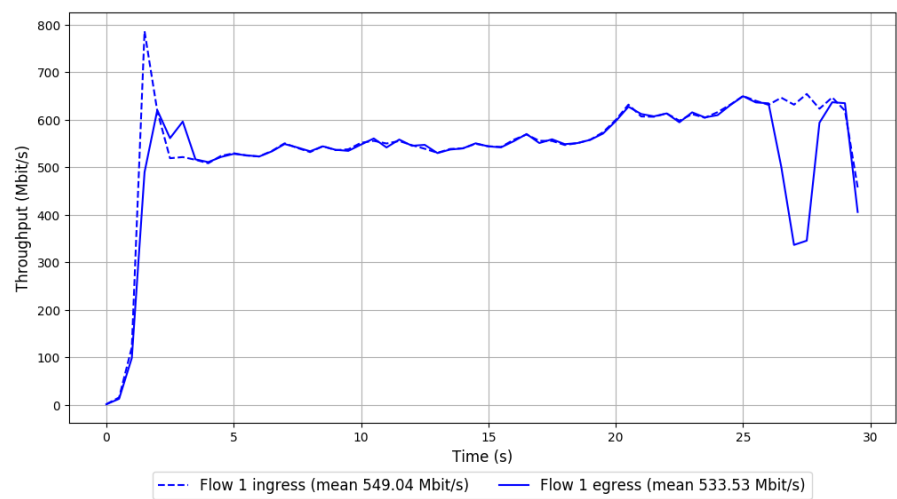
-- Flow 1:

Average throughput: 533.53 Mbit/s

95th percentile per-packet one-way delay: 164.105 ms

Loss rate: 3.18%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-21 04:20:30

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.17 Mbit/s

95th percentile per-packet one-way delay: 165.675 ms

Loss rate: 1.78%

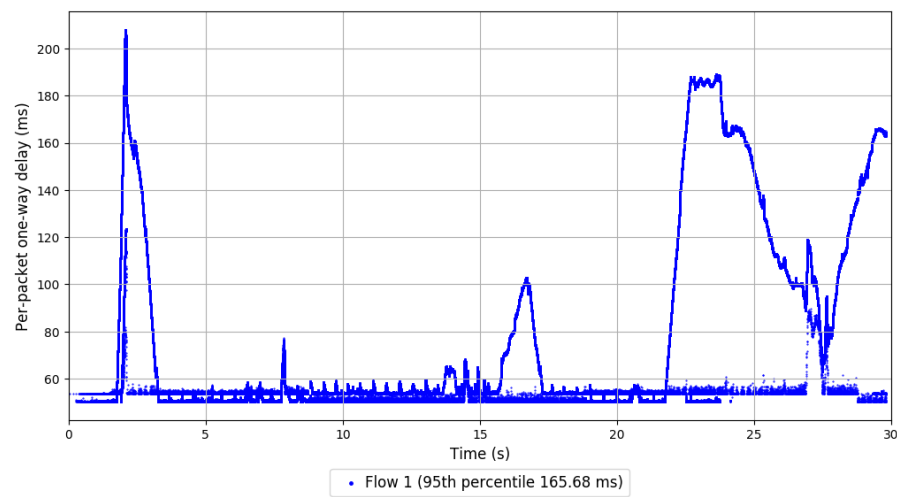
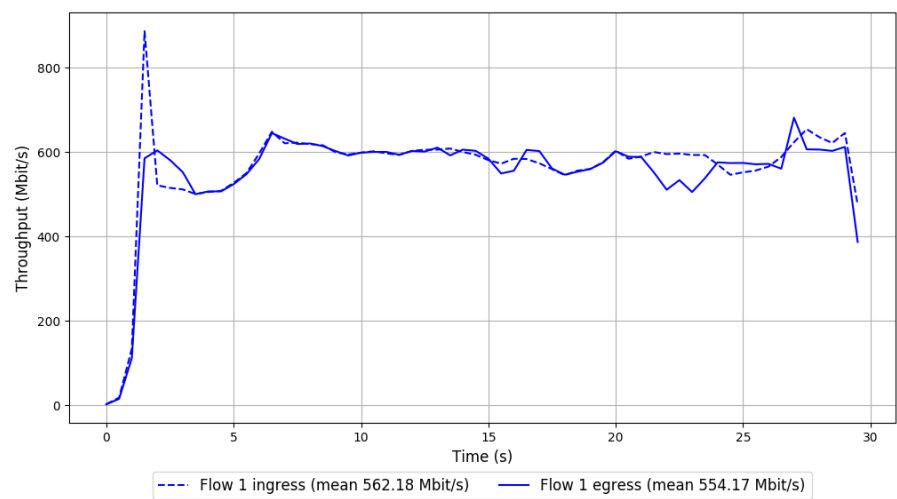
-- Flow 1:

Average throughput: 554.17 Mbit/s

95th percentile per-packet one-way delay: 165.675 ms

Loss rate: 1.78%

Run 10: Report of PCC — Data Link

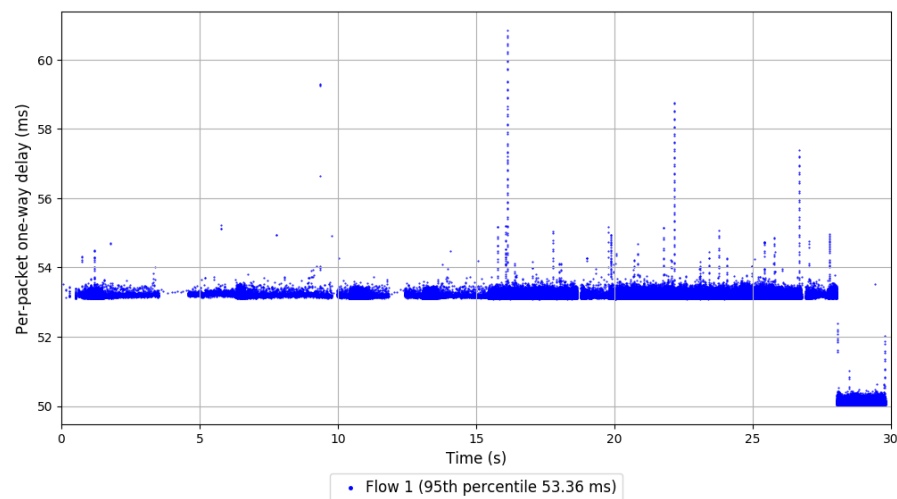
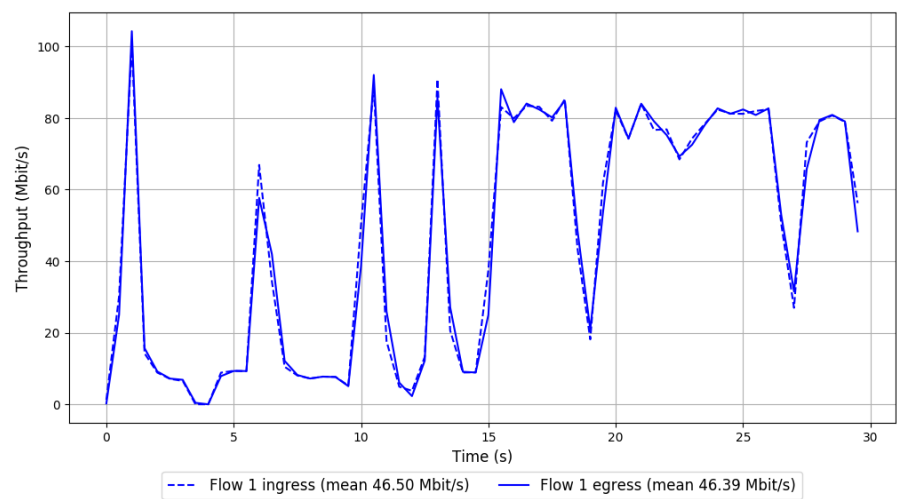


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 02:46:00
End at: 2017-11-21 02:46:30

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 53.357 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 53.357 ms
Loss rate: 0.58%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 02:56:32

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 0.49%

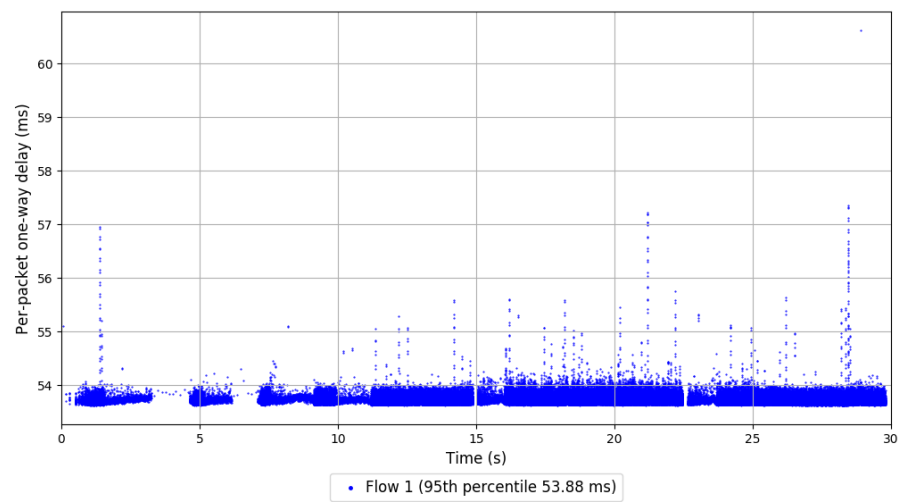
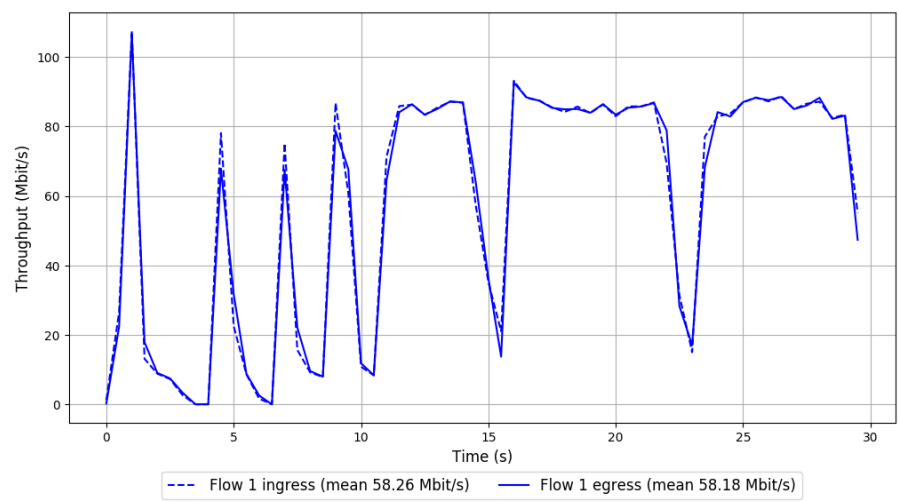
-- Flow 1:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 0.49%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 03:06:49

End at: 2017-11-21 03:07:19

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.62%

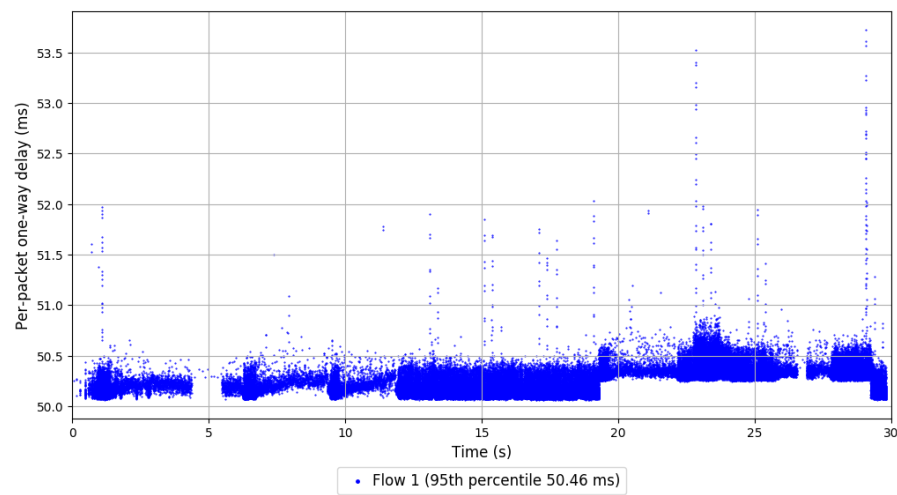
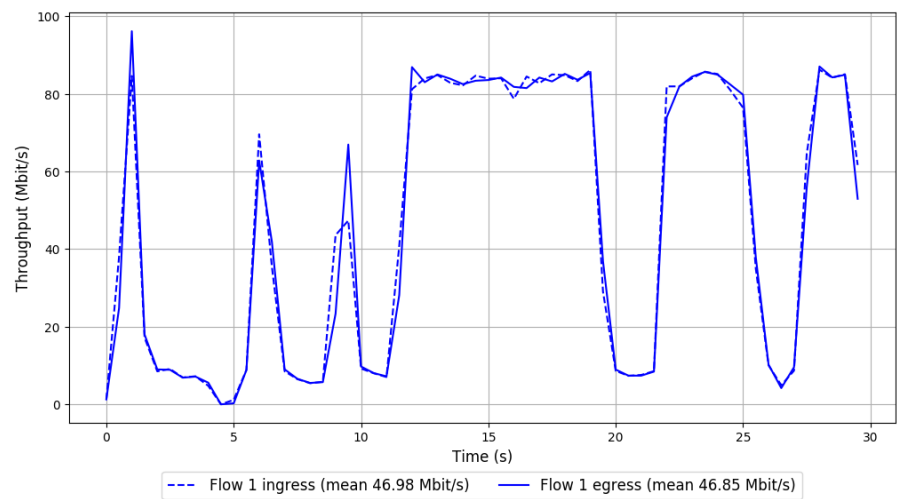
-- Flow 1:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.62%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 03:17:13

End at: 2017-11-21 03:17:43

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.61 Mbit/s

95th percentile per-packet one-way delay: 53.931 ms

Loss rate: 0.61%

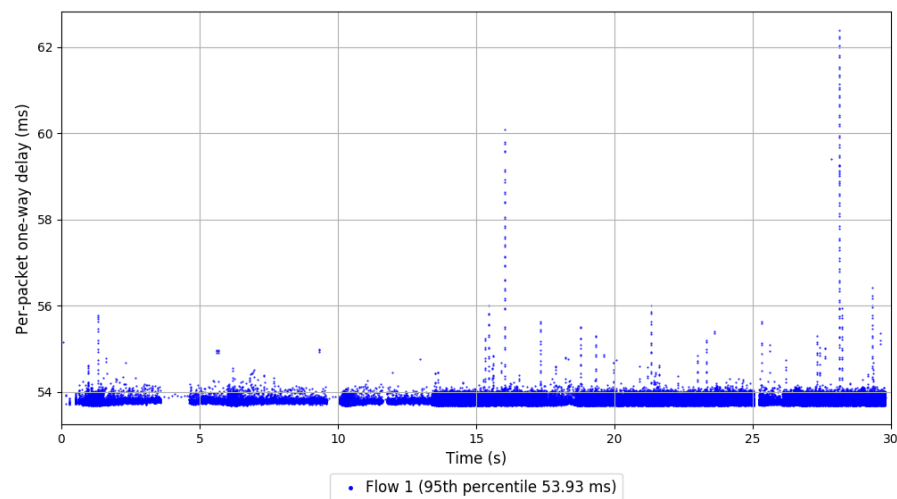
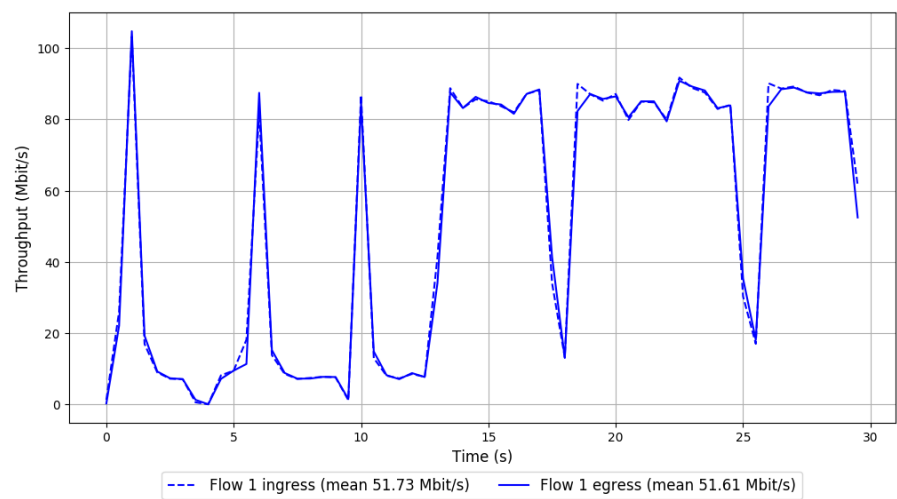
-- Flow 1:

Average throughput: 51.61 Mbit/s

95th percentile per-packet one-way delay: 53.931 ms

Loss rate: 0.61%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 03:27:26

End at: 2017-11-21 03:27:56

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.44%

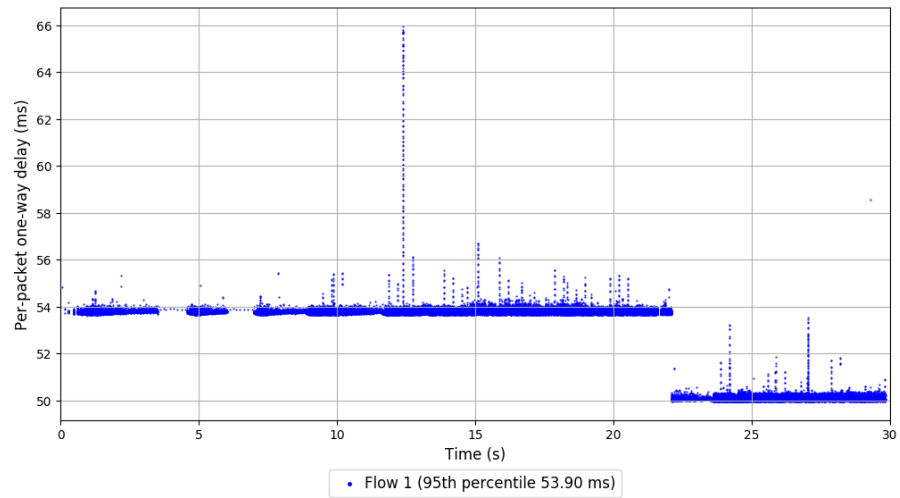
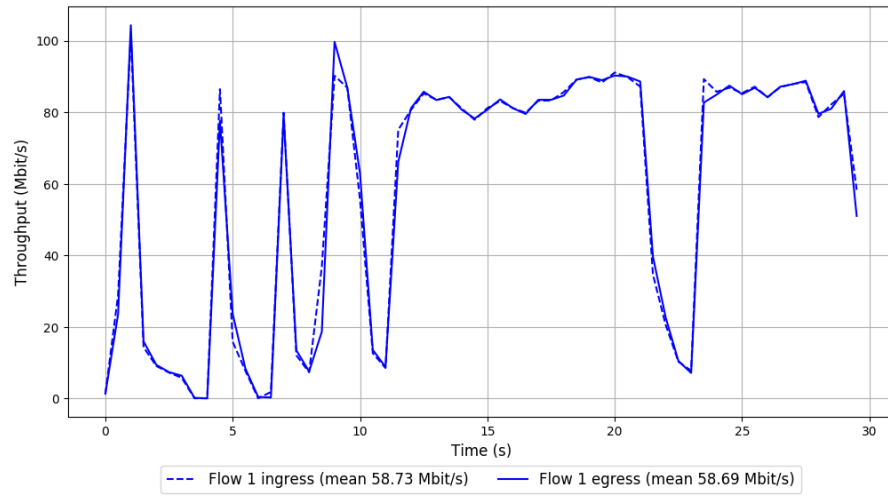
-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.44%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 03:37:48

End at: 2017-11-21 03:38:18

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 53.787 ms

Loss rate: 0.68%

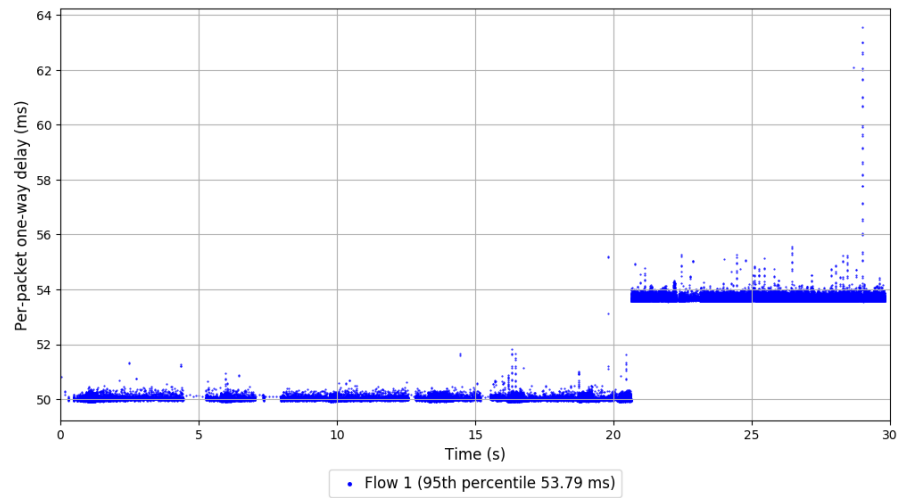
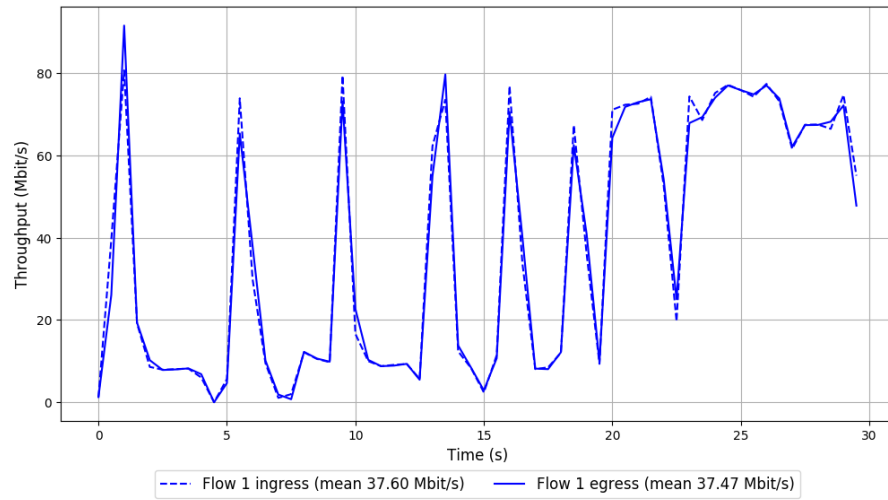
-- Flow 1:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 53.787 ms

Loss rate: 0.68%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 03:48:02

End at: 2017-11-21 03:48:32

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.21 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.51%

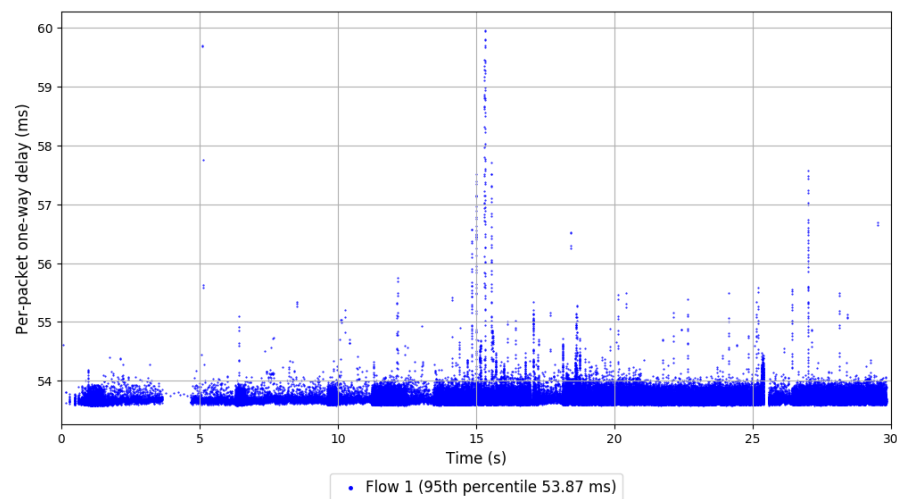
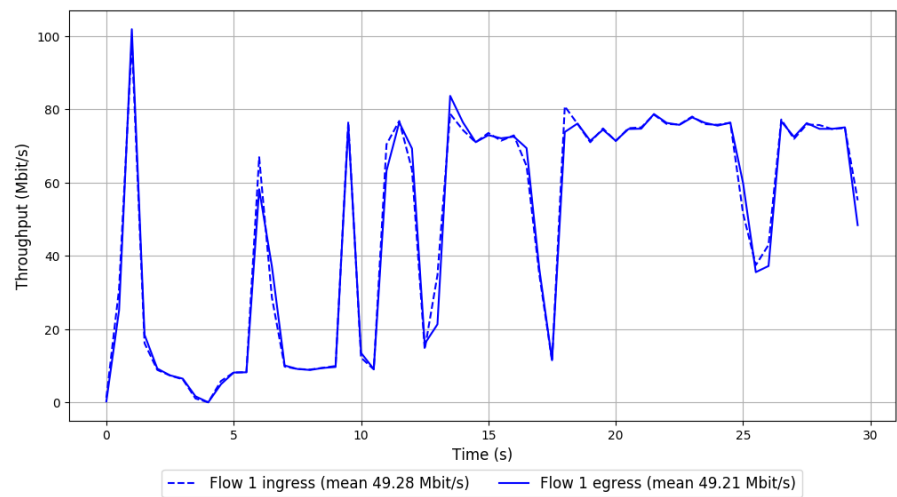
-- Flow 1:

Average throughput: 49.21 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.51%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 03:58:19

End at: 2017-11-21 03:58:49

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.31 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.50%

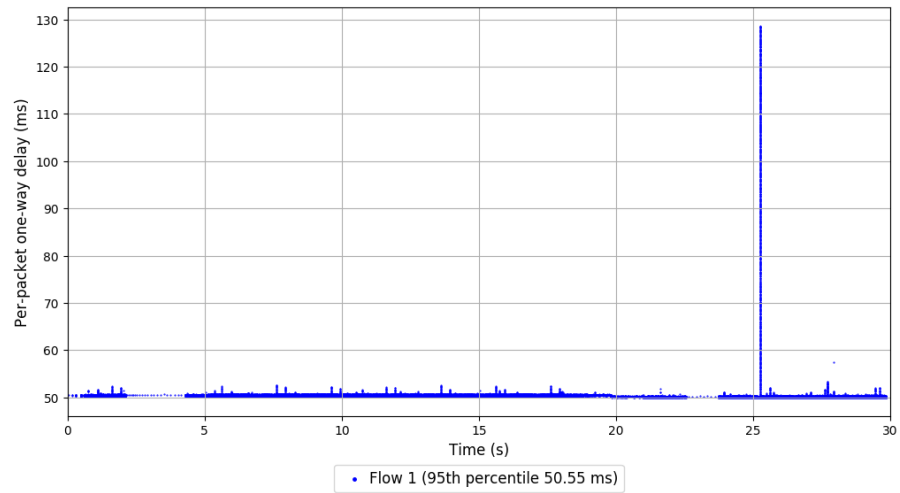
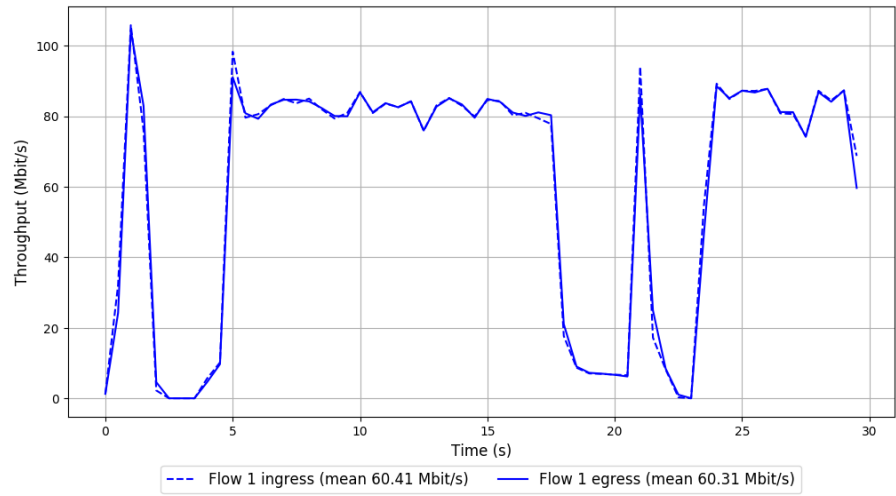
-- Flow 1:

Average throughput: 60.31 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.50%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 04:08:43

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.72 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.00%

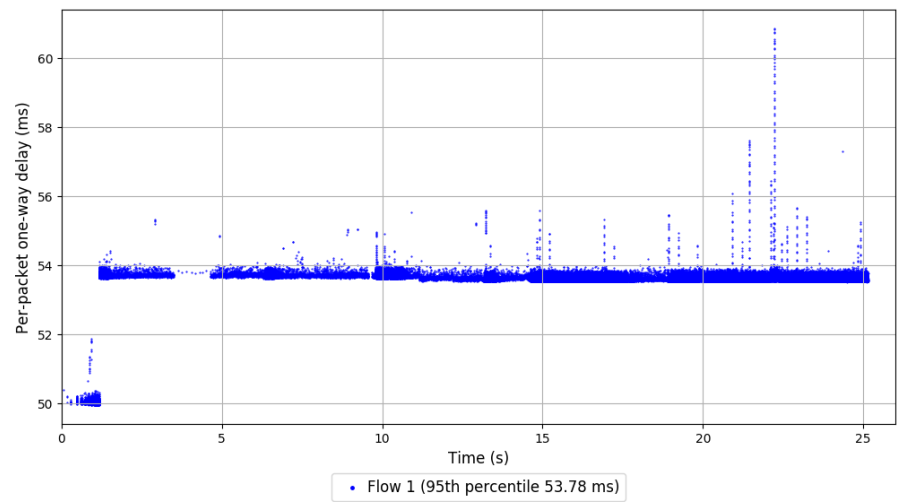
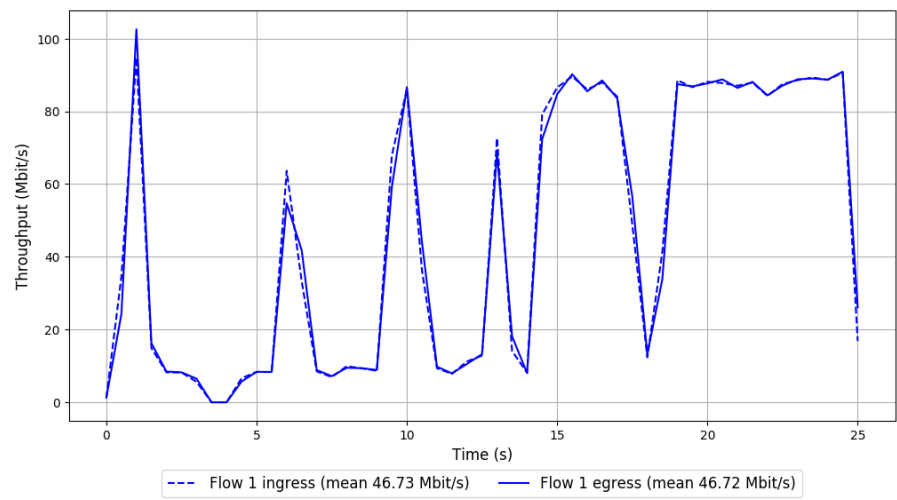
-- Flow 1:

Average throughput: 46.72 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 04:18:59

End at: 2017-11-21 04:19:29

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 50.876 ms

Loss rate: 0.56%

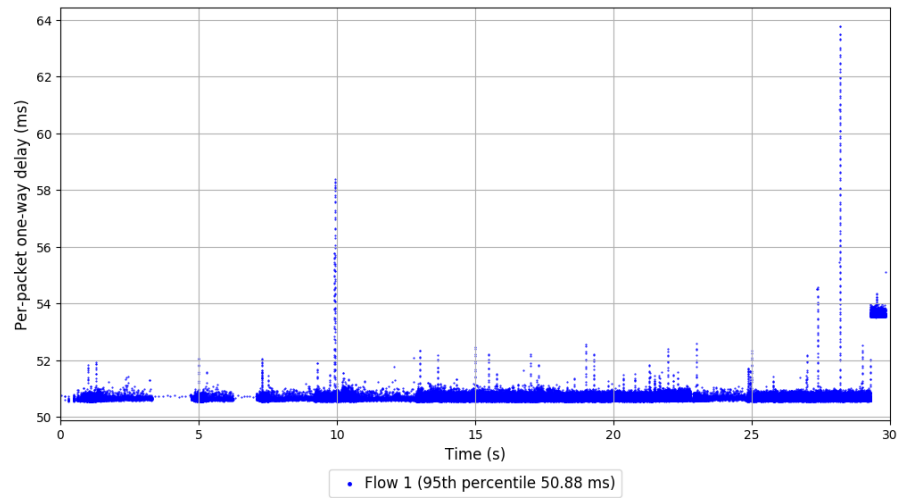
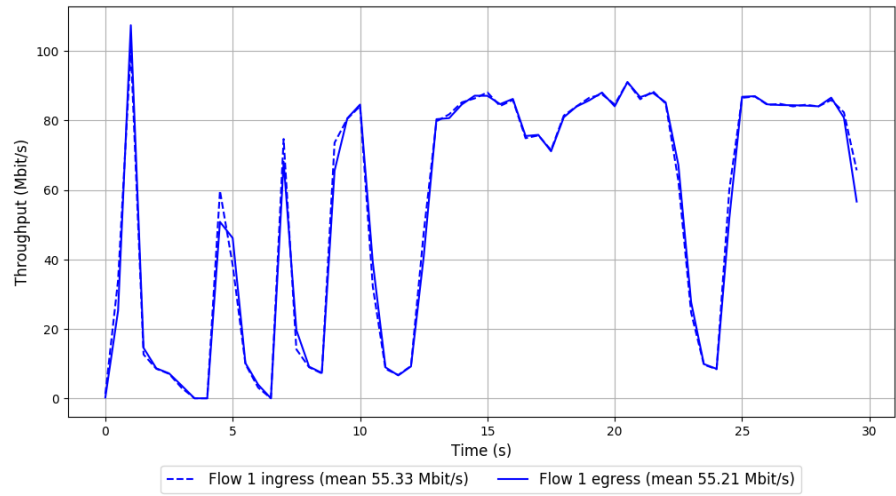
-- Flow 1:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 50.876 ms

Loss rate: 0.56%

Run 10: Report of QUIC Cubic — Data Link

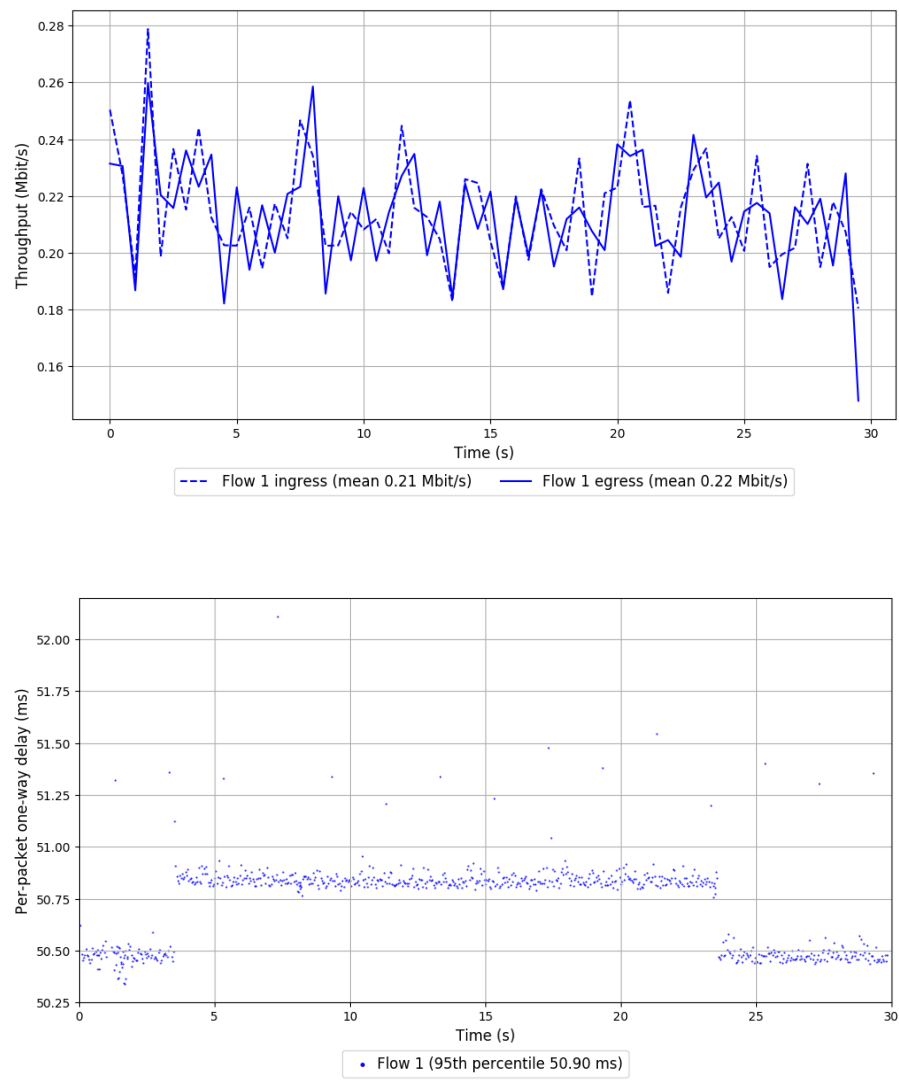


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 02:42:35
End at: 2017-11-21 02:43:05

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

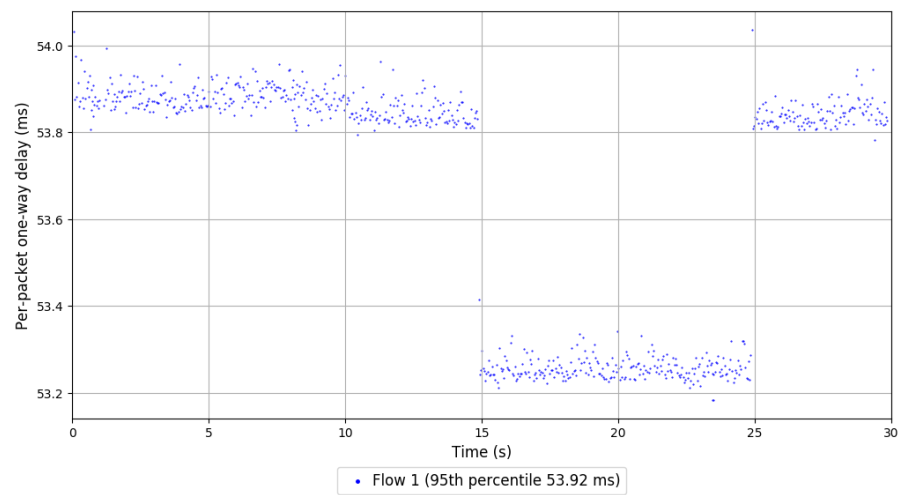
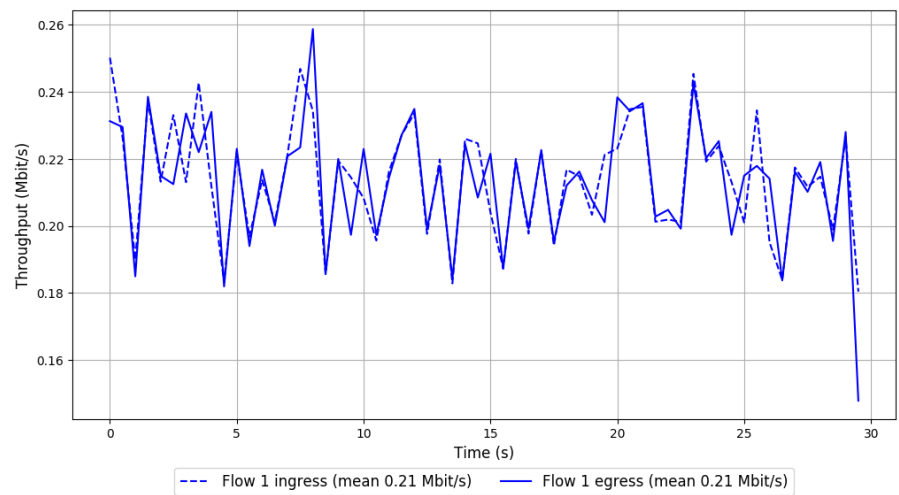


```
Run 2: Statistics of SCReAM

Start at: 2017-11-21 02:52:54
End at: 2017-11-21 02:53:24

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.918 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.918 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

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

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.237 ms

Loss rate: 0.38%

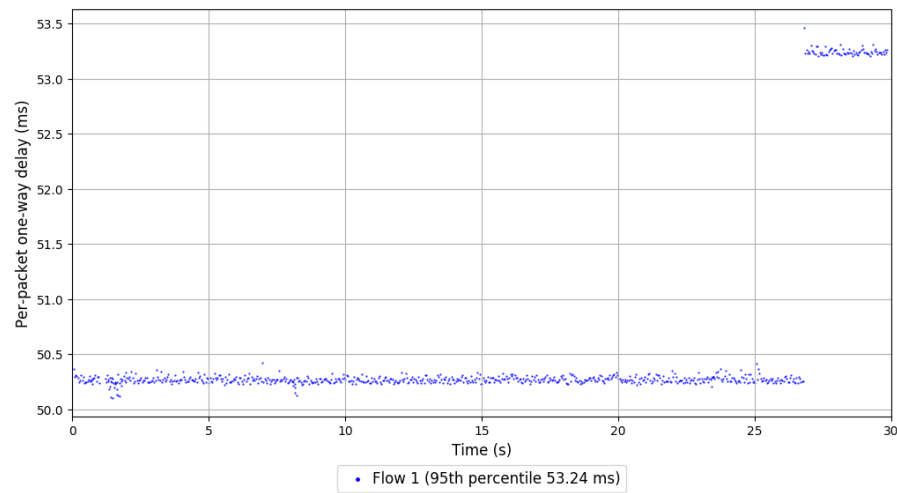
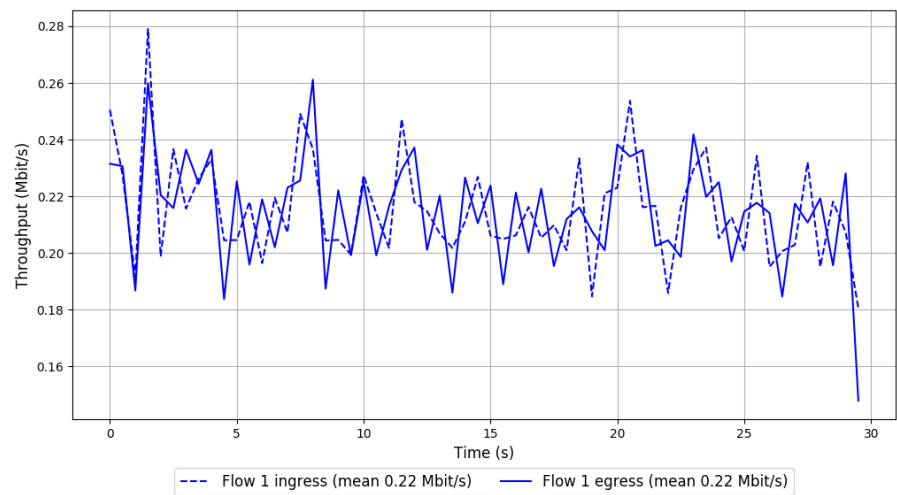
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.237 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-21 03:13:41

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.918 ms

Loss rate: 0.38%

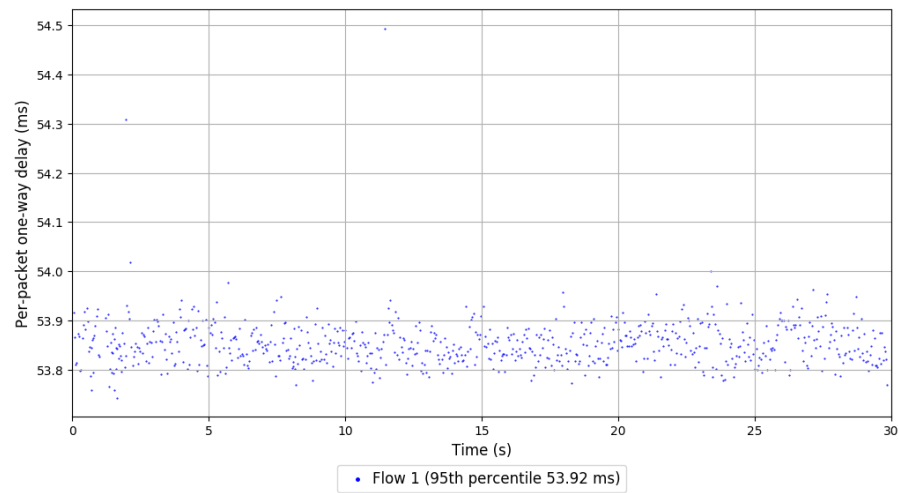
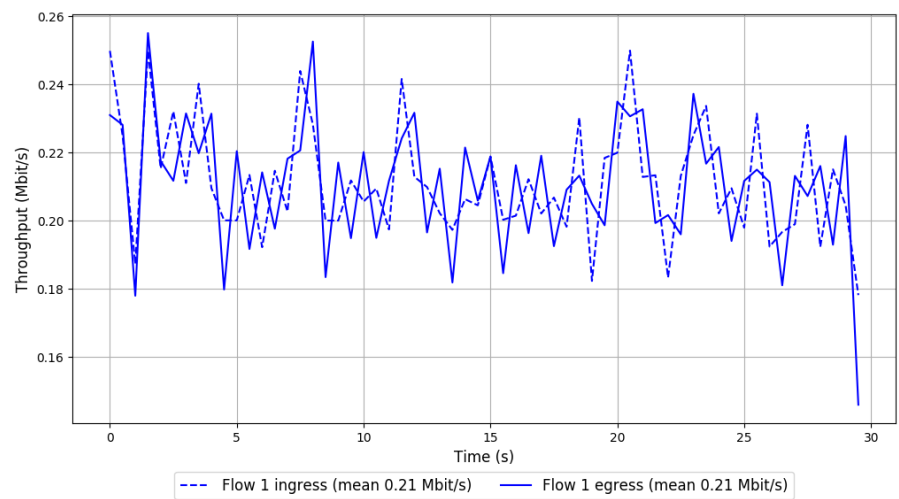
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.918 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-21 03:24:00

End at: 2017-11-21 03:24:30

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.870 ms

Loss rate: 0.38%

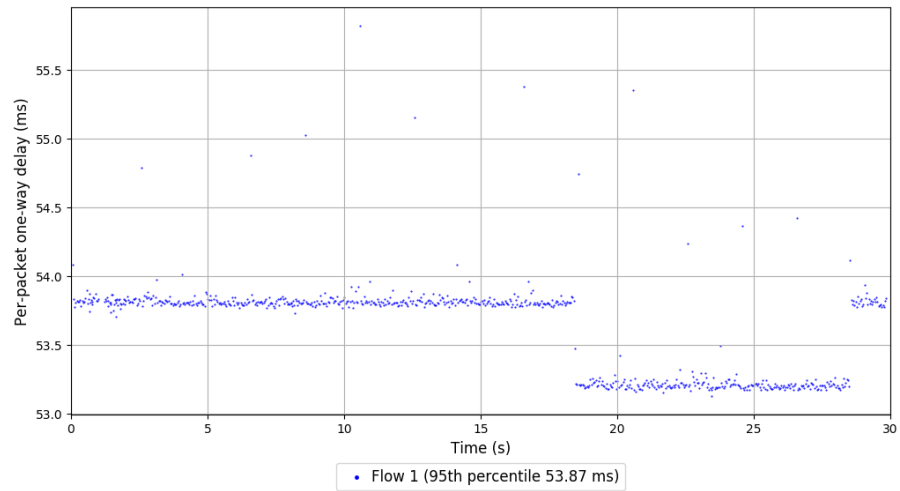
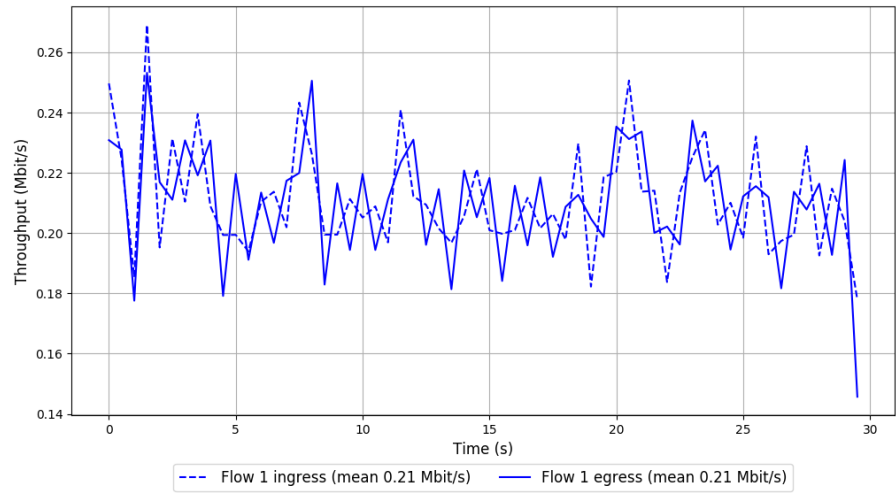
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.870 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-21 03:34:15

End at: 2017-11-21 03:34:45

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.274 ms

Loss rate: 0.26%

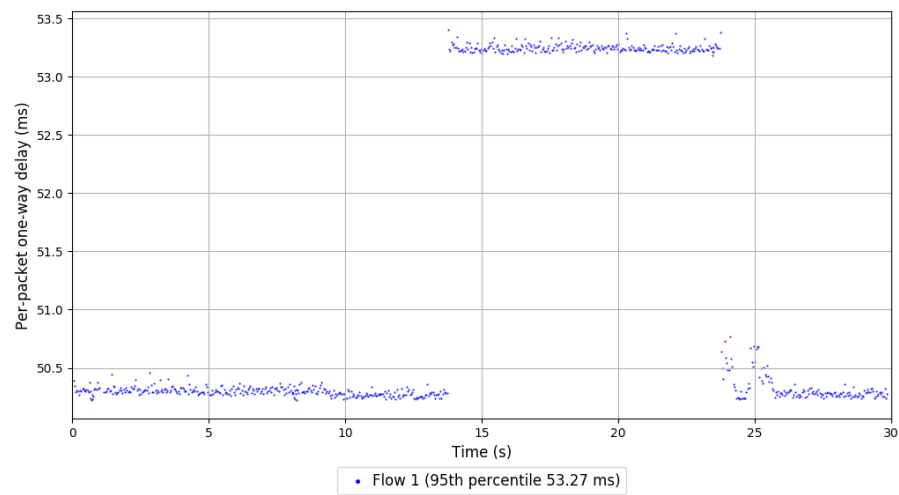
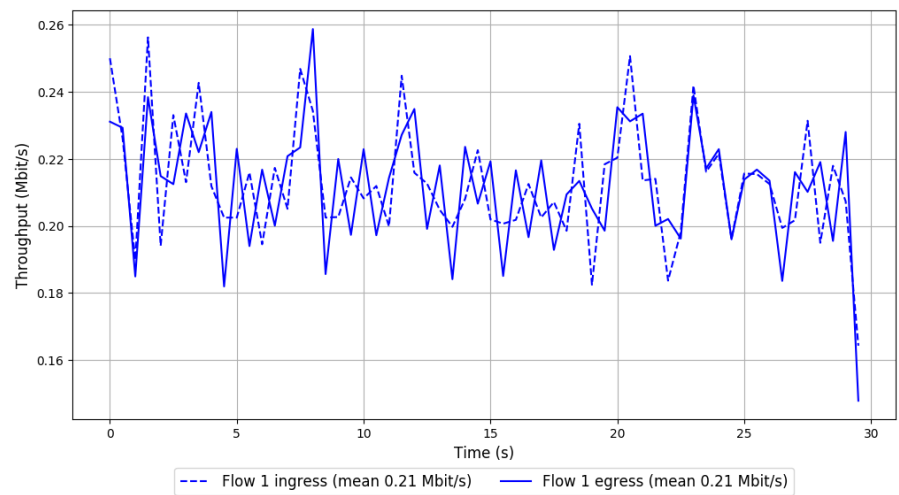
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.274 ms

Loss rate: 0.26%

Run 6: Report of SReAM — Data Link

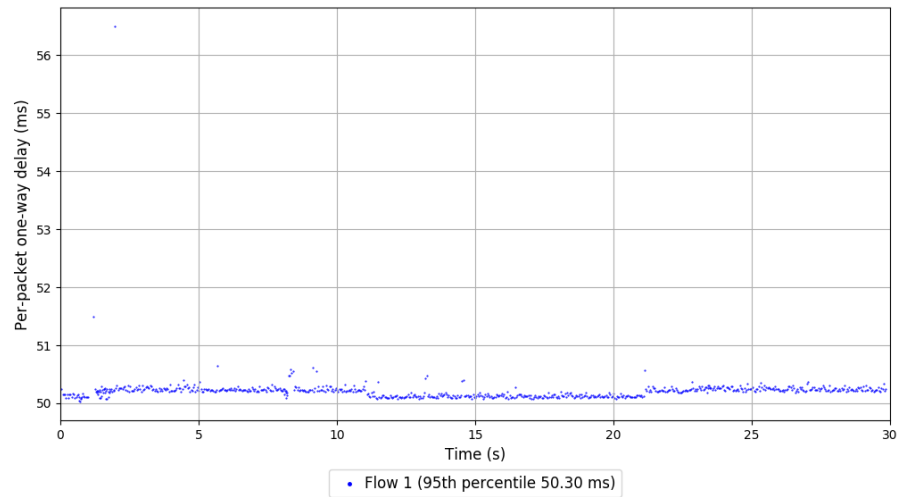
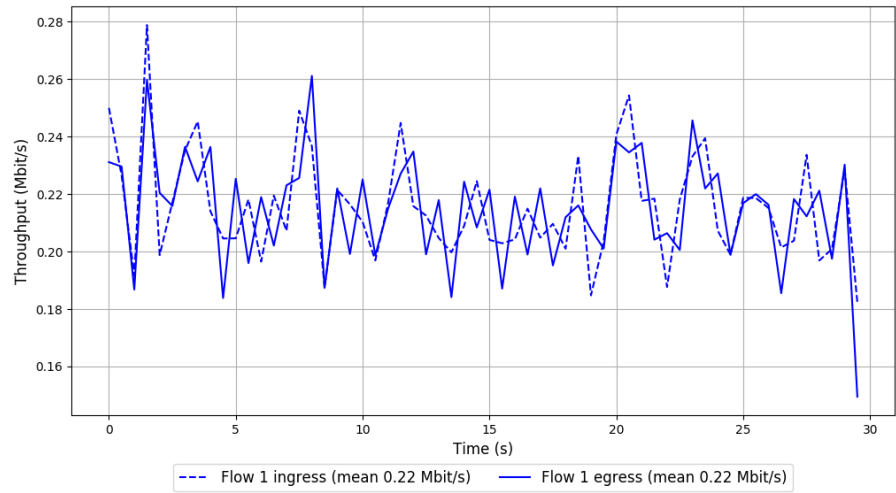


```
Run 7: Statistics of SCReAM

Start at: 2017-11-21 03:44:37
End at: 2017-11-21 03:45:07

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.302 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.302 ms
Loss rate: 0.38%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

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

End at: 2017-11-21 03:55:22

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.37%

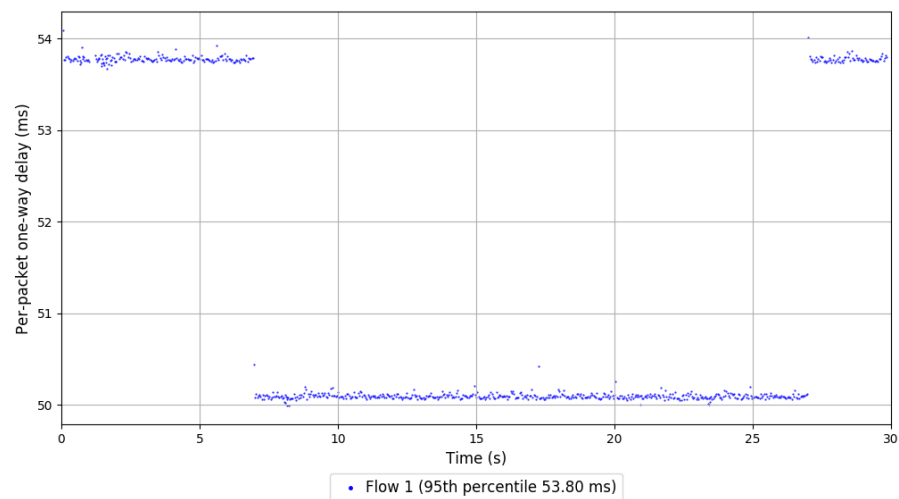
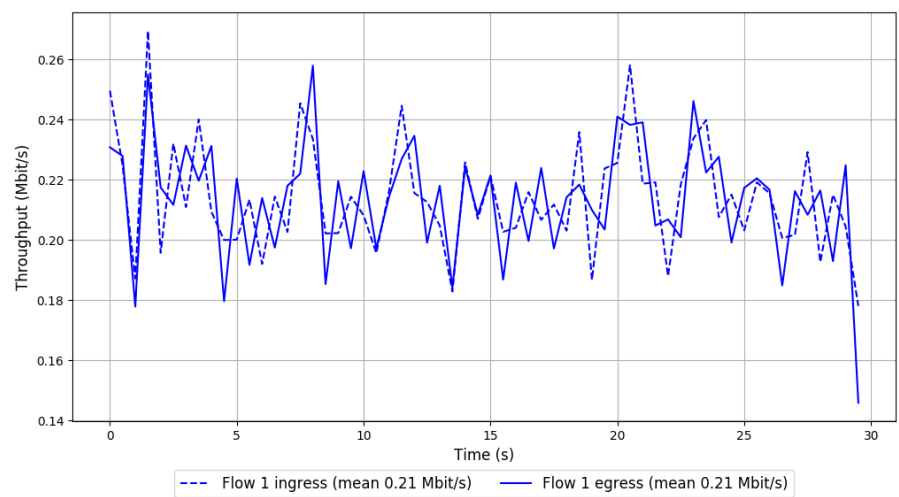
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.37%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 04:05:06

End at: 2017-11-21 04:05:36

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.38%

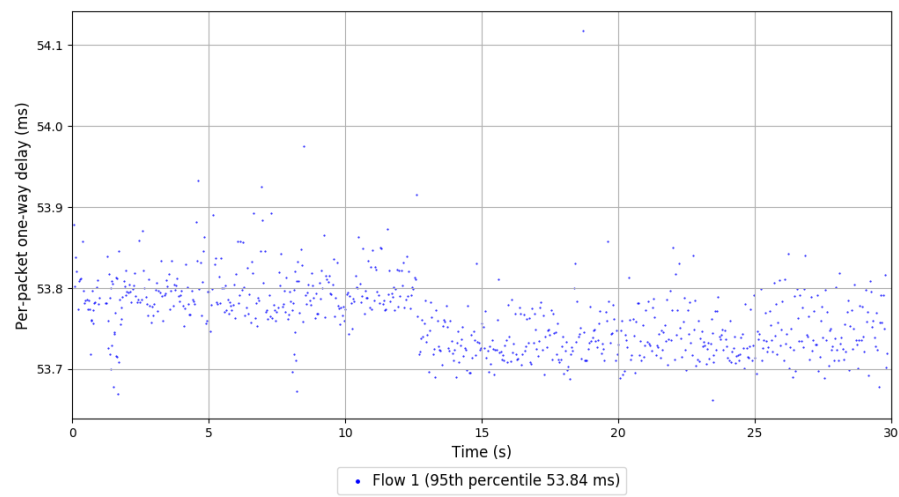
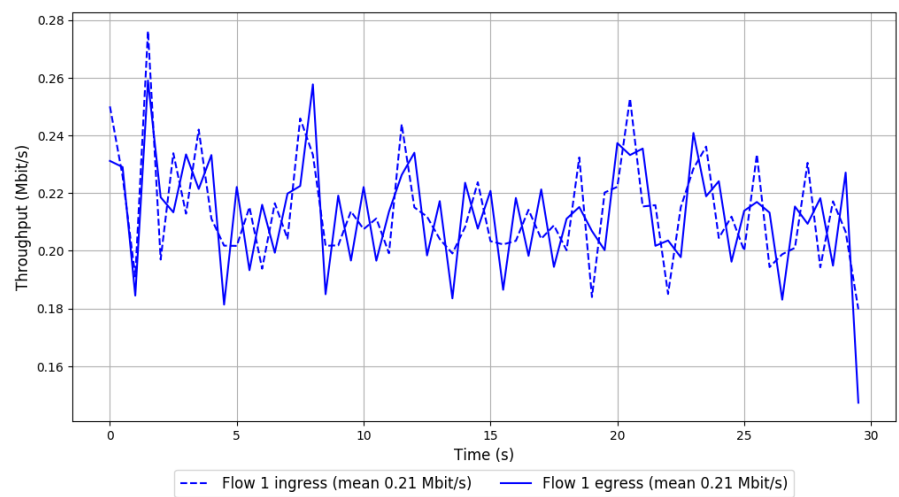
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-21 04:15:34

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.342 ms

Loss rate: 0.25%

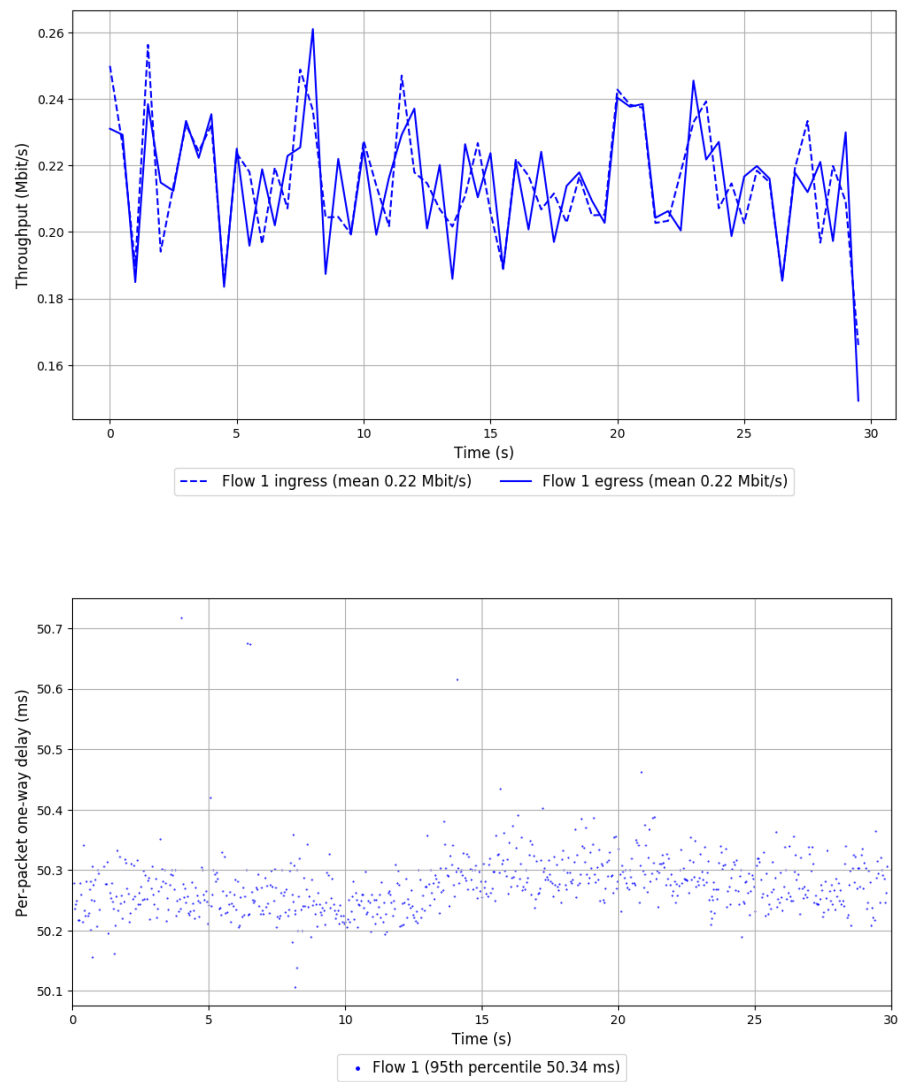
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.342 ms

Loss rate: 0.25%

Run 10: Report of SReAM — Data Link

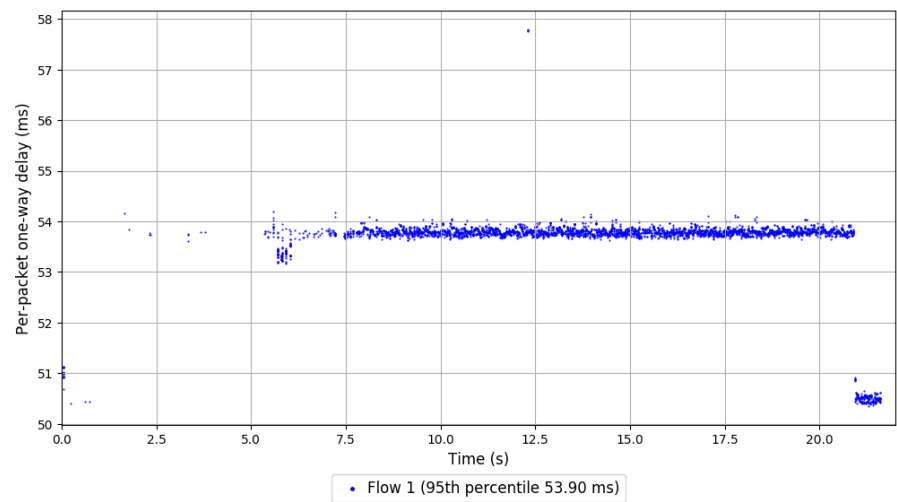
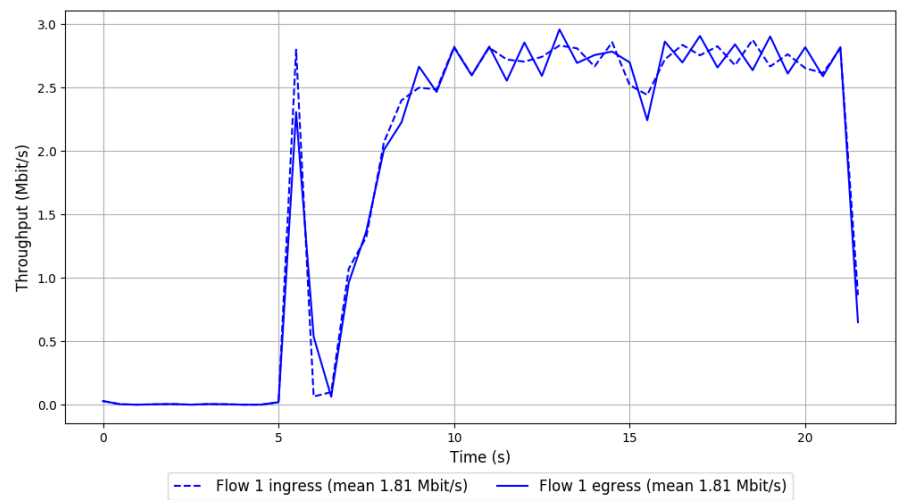


Run 1: Statistics of WebRTC media

Start at: 2017-11-21 02:43:49

End at: 2017-11-21 02:44:19

Run 1: Report of WebRTC media — Data Link

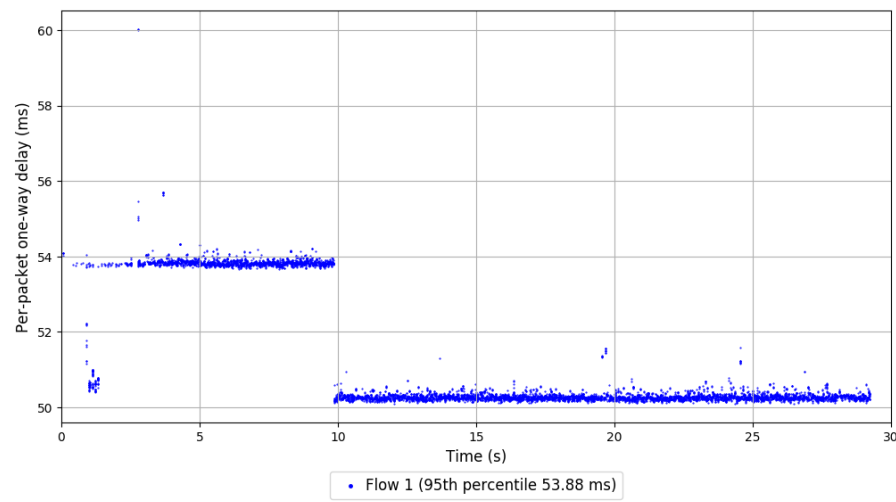
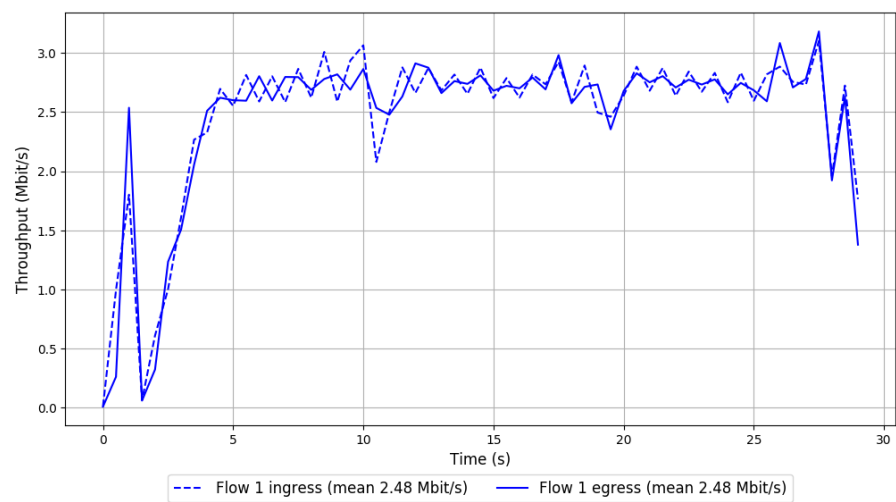


```
Run 2: Statistics of WebRTC media

Start at: 2017-11-21 02:54:08
End at: 2017-11-21 02:54:38

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 0.46%
```

Run 2: Report of WebRTC media — Data Link

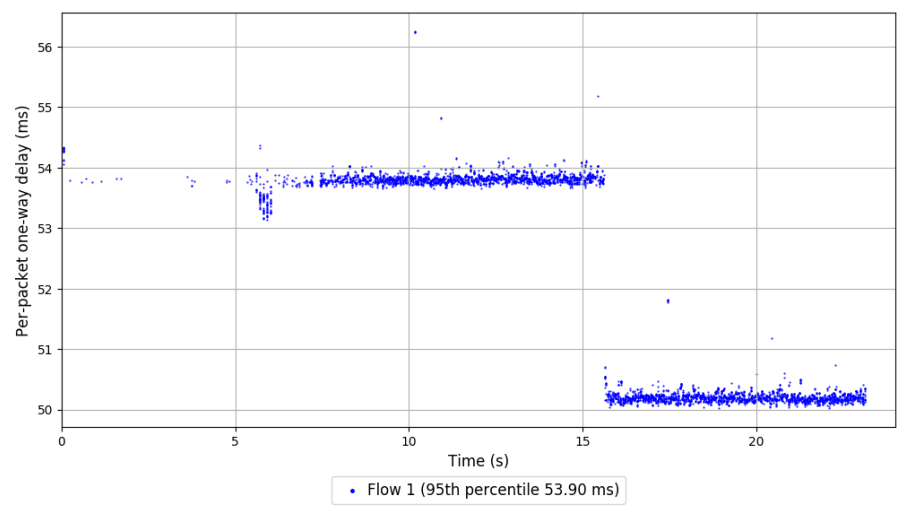
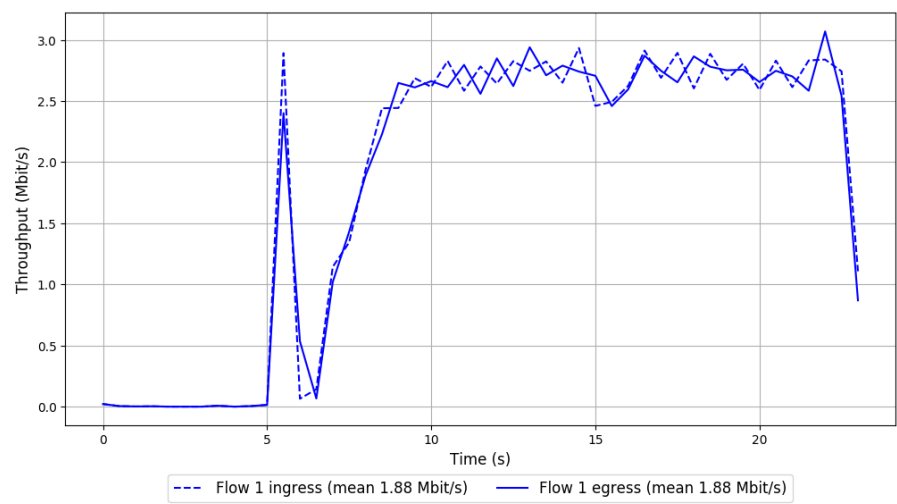


Run 3: Statistics of WebRTC media

Start at: 2017-11-21 03:04:36

End at: 2017-11-21 03:05:06

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 03:14:55

End at: 2017-11-21 03:15:25

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 53.959 ms

Loss rate: 0.40%

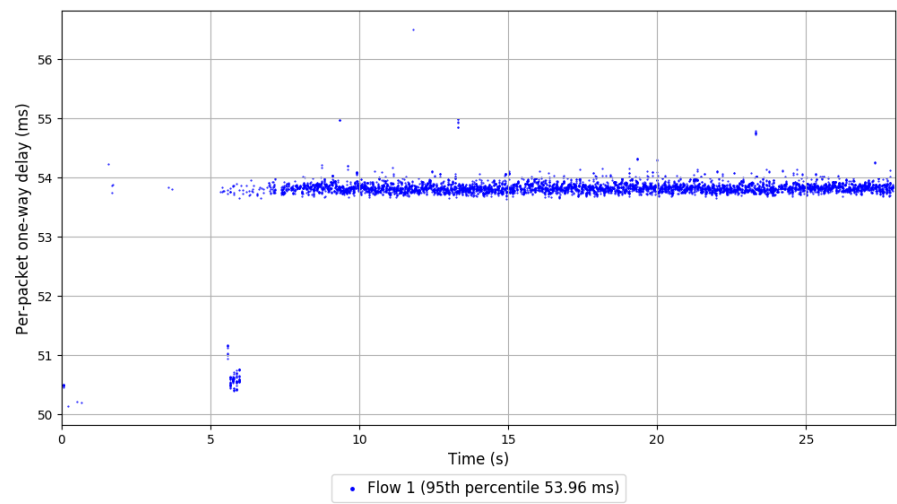
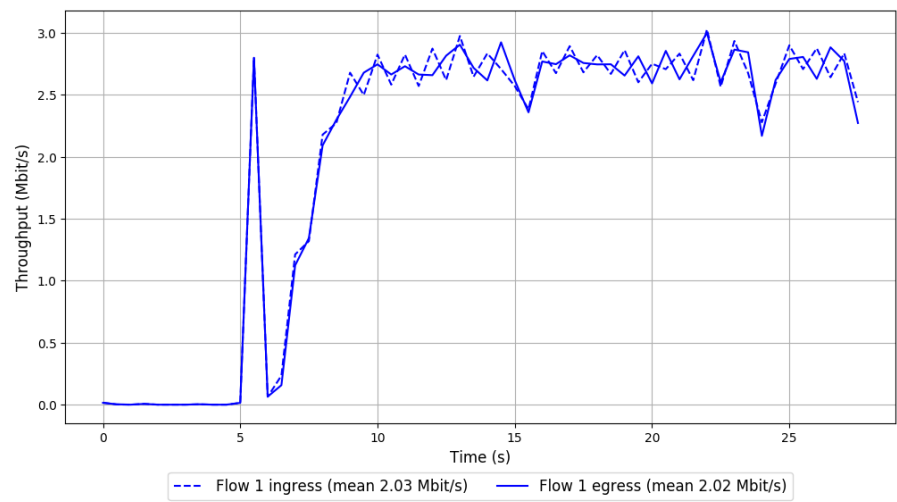
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 53.959 ms

Loss rate: 0.40%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 03:25:15

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 50.575 ms

Loss rate: 0.45%

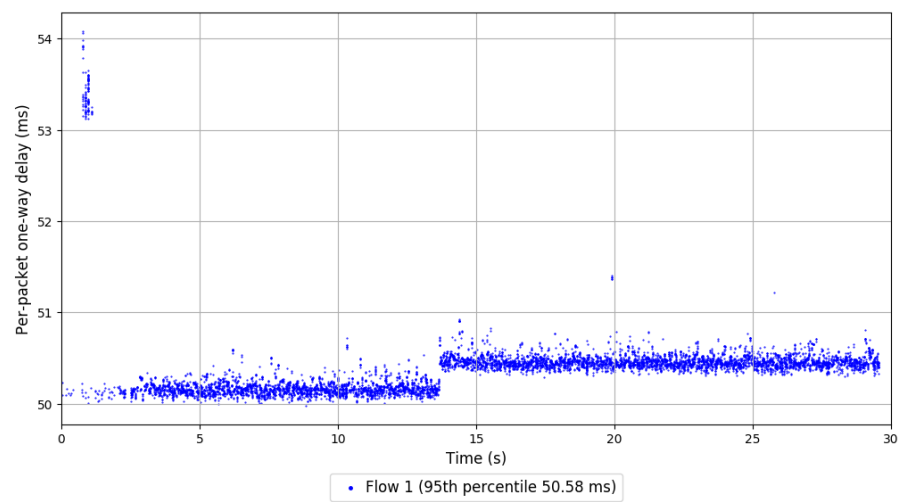
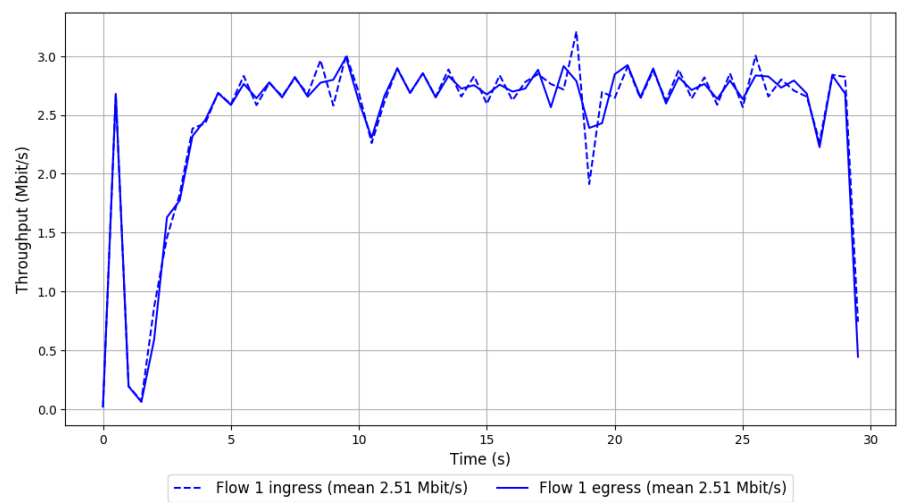
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 50.575 ms

Loss rate: 0.45%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 03:35:29

End at: 2017-11-21 03:35:59

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 53.847 ms

Loss rate: 0.45%

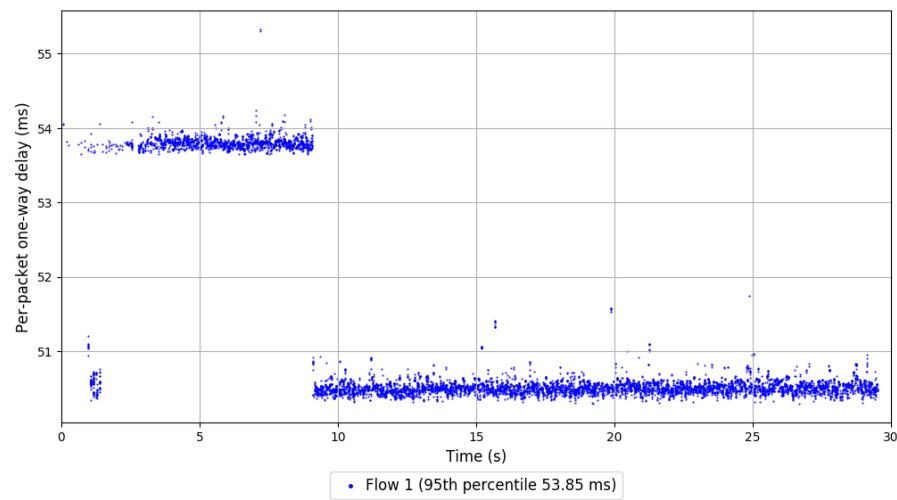
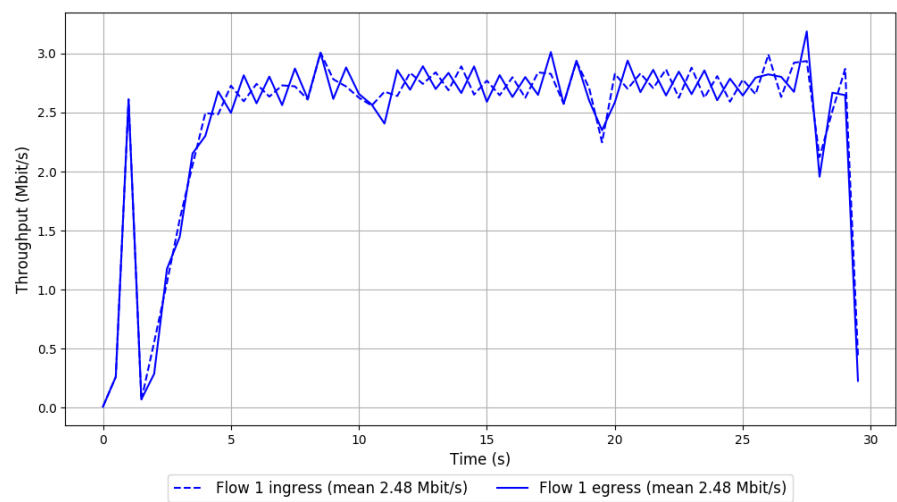
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 53.847 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 03:45:52

End at: 2017-11-21 03:46:22

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 0.41%

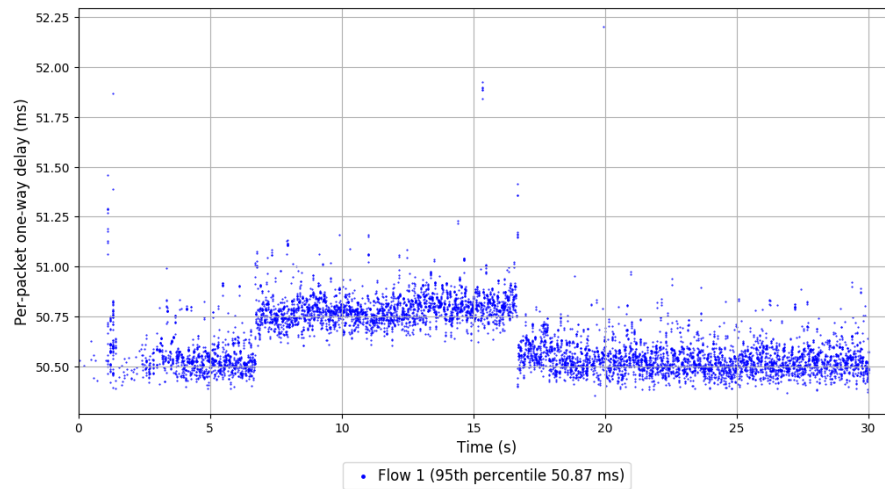
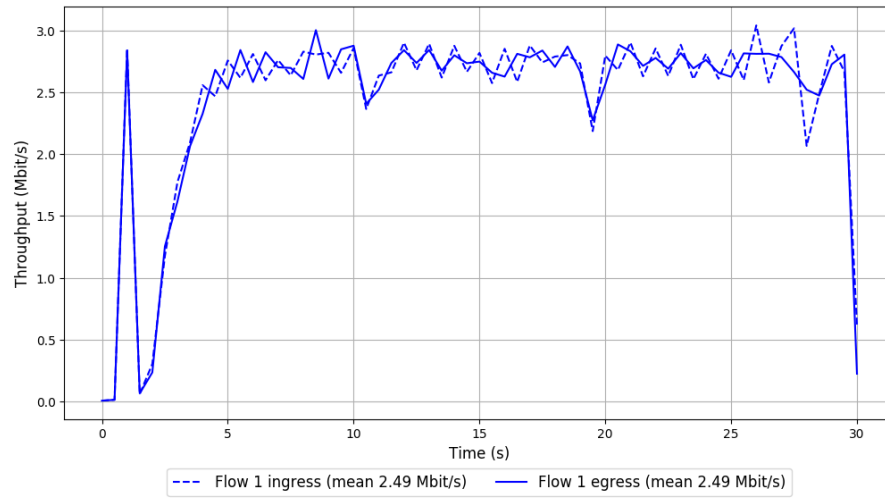
-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 0.41%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 03:56:06

End at: 2017-11-21 03:56:36

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 53.950 ms

Loss rate: 0.36%

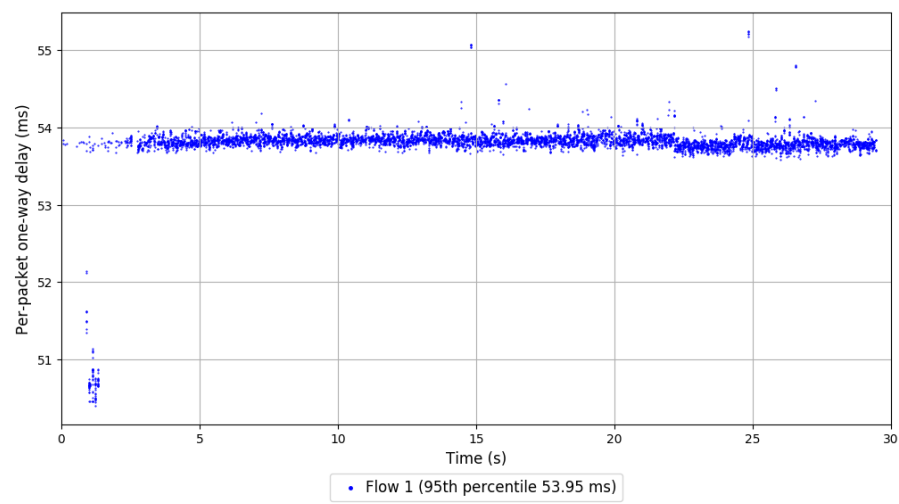
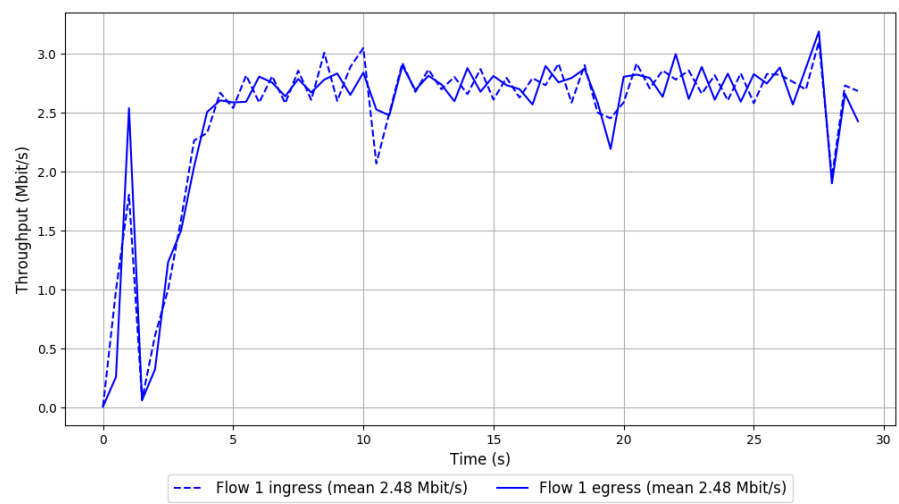
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 53.950 ms

Loss rate: 0.36%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 04:06:20

End at: 2017-11-21 04:06:50

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.46%

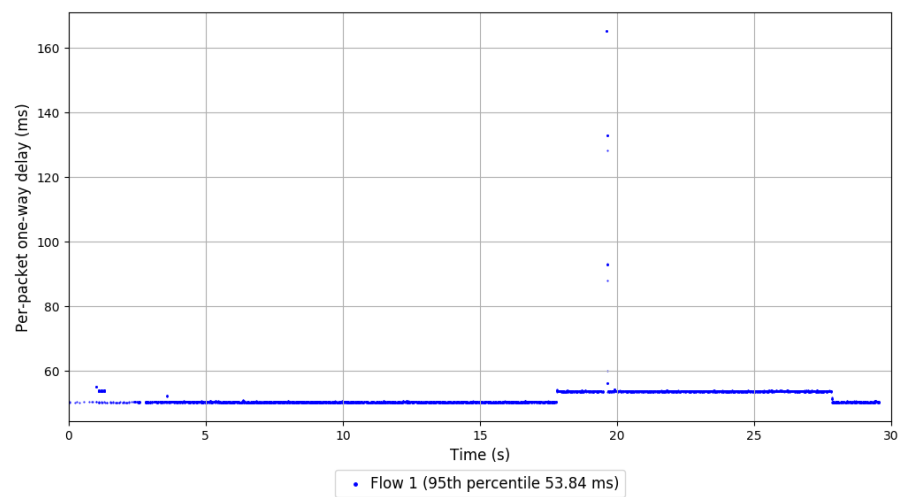
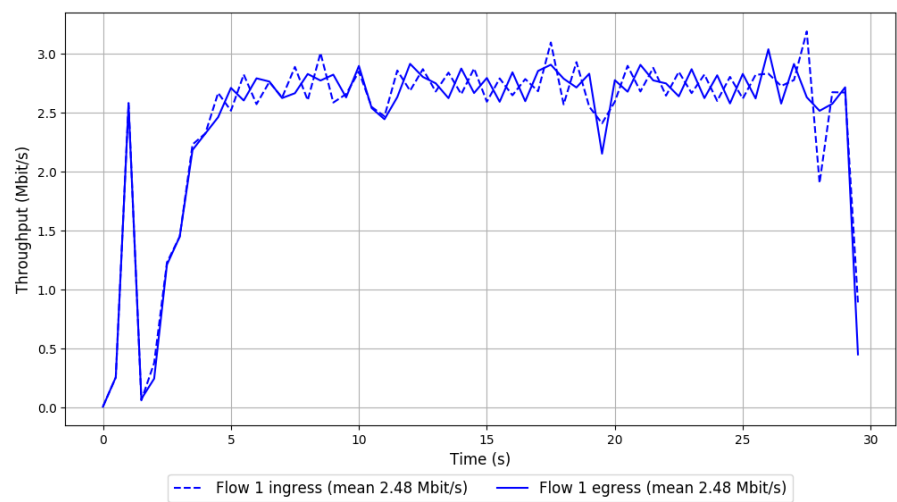
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.46%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 04:16:49

End at: 2017-11-21 04:17:19

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 0.46%

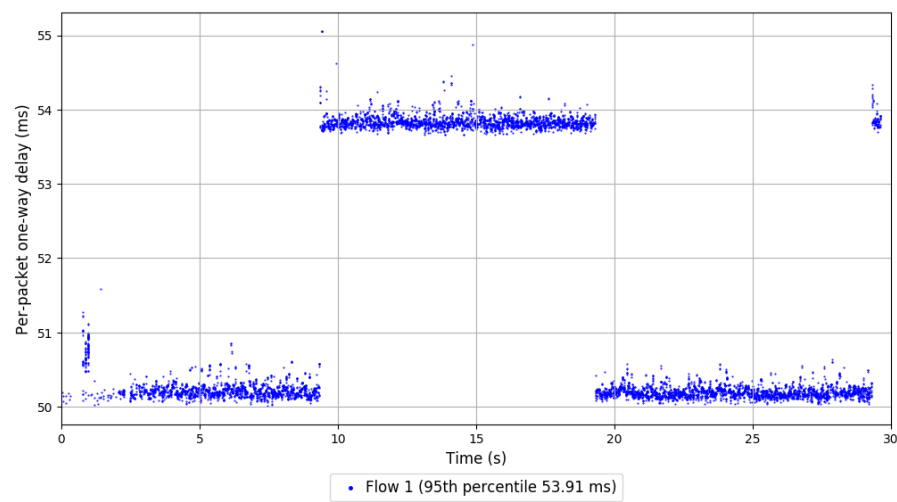
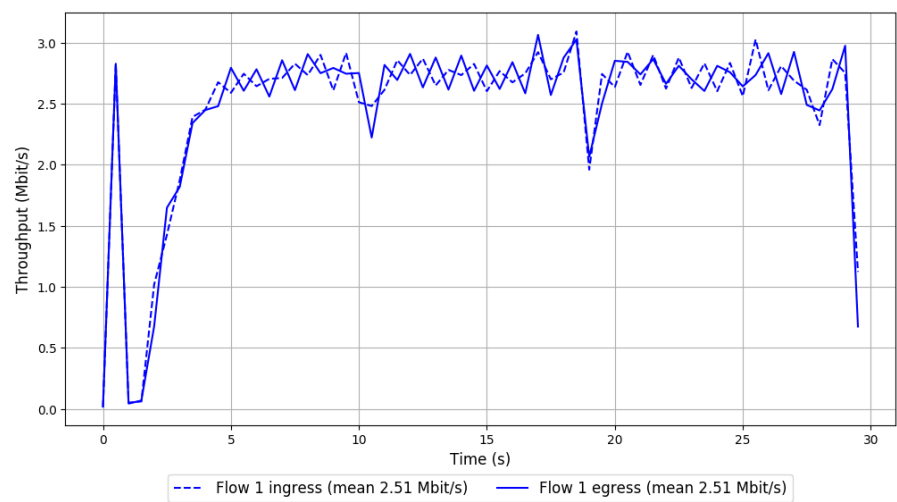
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 0.46%

Run 10: Report of WebRTC media — Data Link

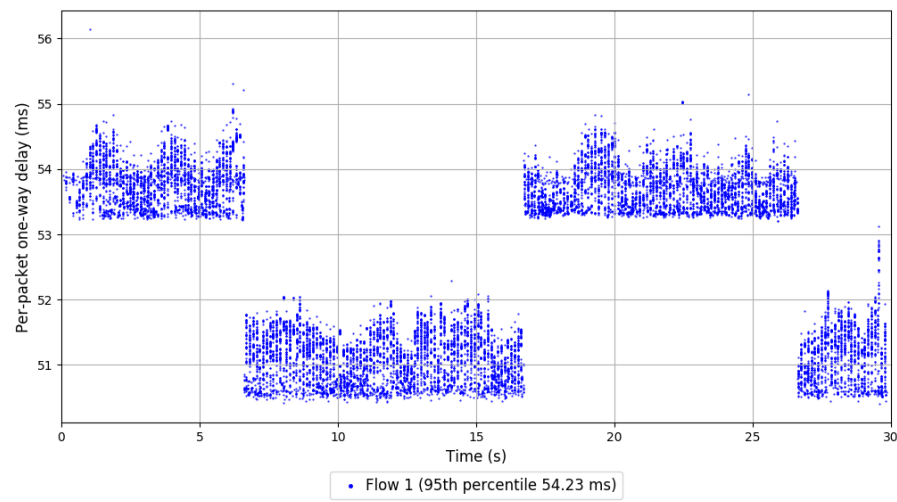
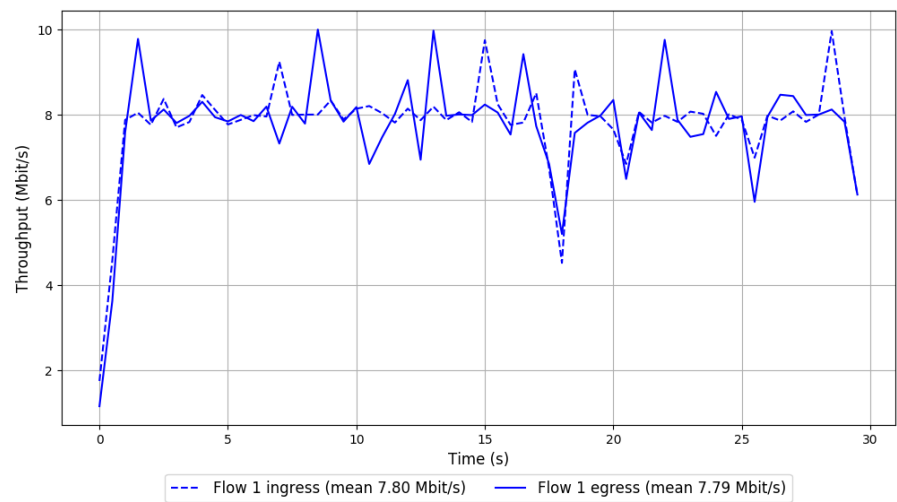


```
Run 1: Statistics of Sprout

Start at: 2017-11-21 02:43:12
End at: 2017-11-21 02:43:42

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 54.232 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 54.232 ms
Loss rate: 0.42%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 02:53:30

End at: 2017-11-21 02:54:00

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.429 ms

Loss rate: 0.39%

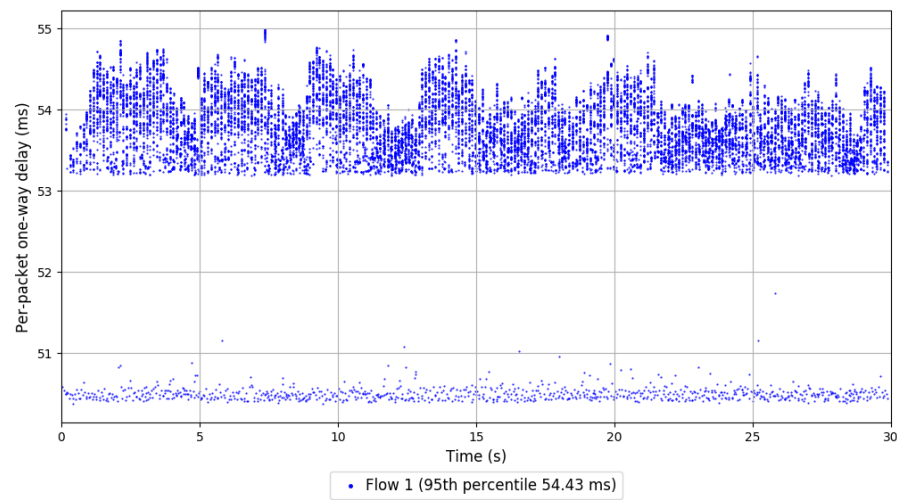
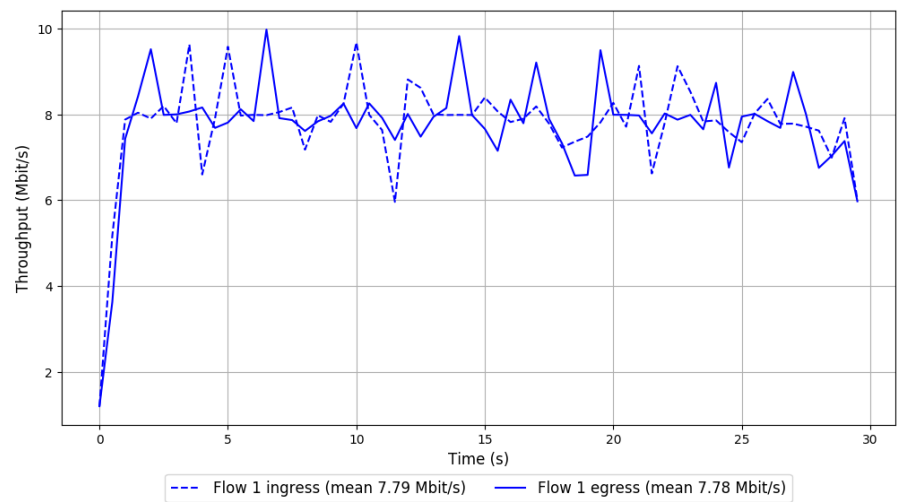
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.429 ms

Loss rate: 0.39%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

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

End at: 2017-11-21 03:04:29

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.697 ms

Loss rate: 0.44%

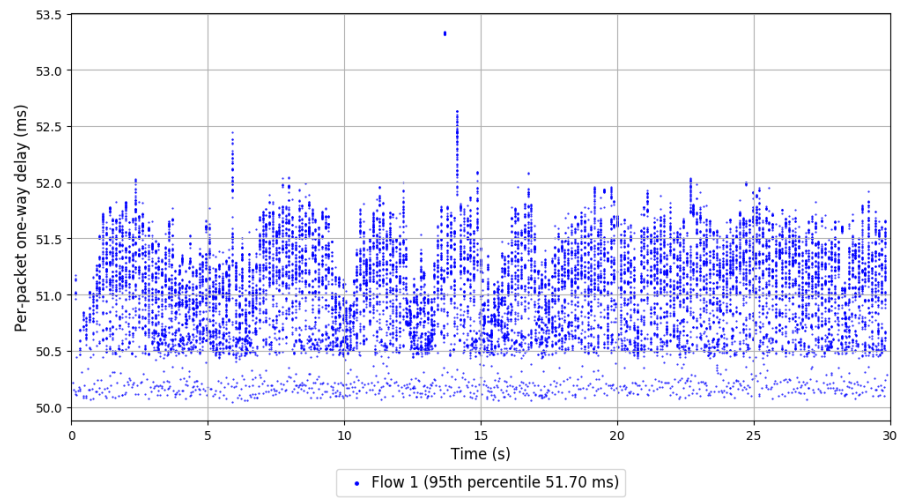
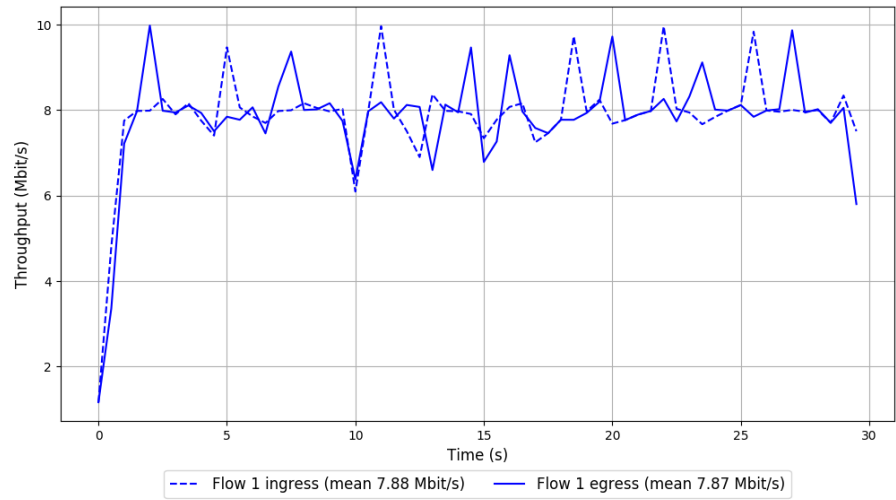
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.697 ms

Loss rate: 0.44%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 03:14:18

End at: 2017-11-21 03:14:48

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.222 ms

Loss rate: 0.40%

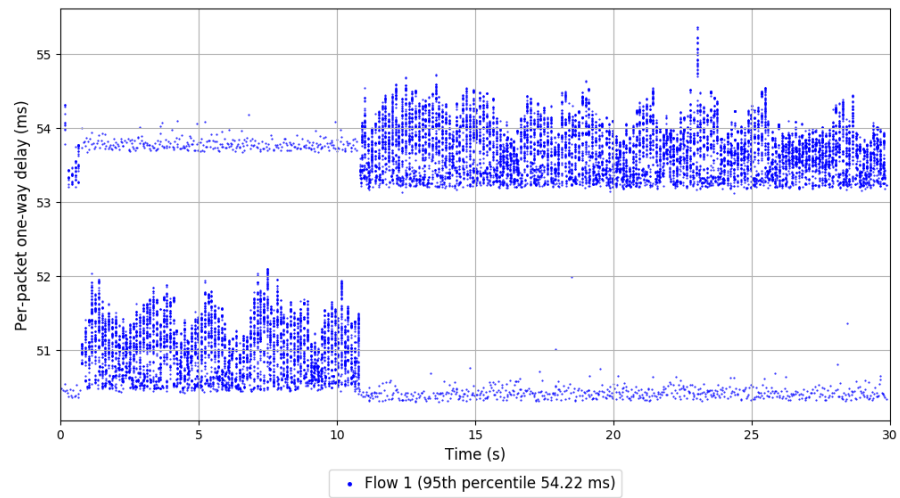
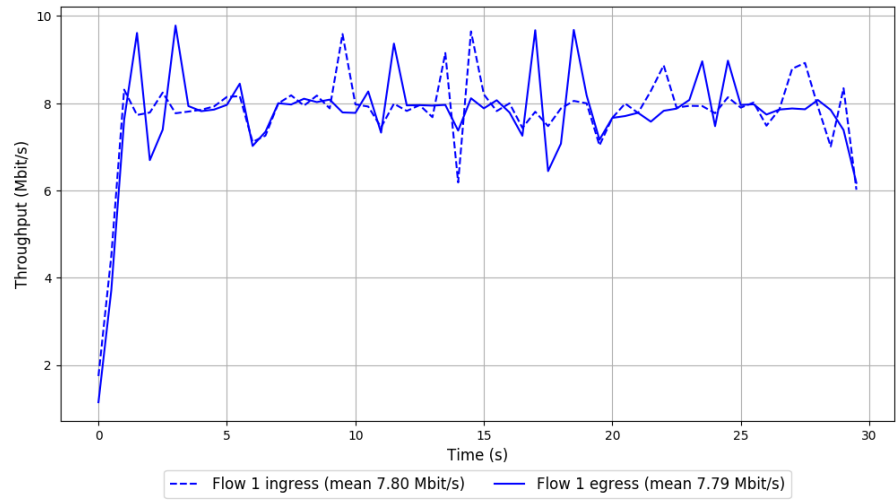
-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.222 ms

Loss rate: 0.40%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 03:24:37

End at: 2017-11-21 03:25:07

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 0.38%

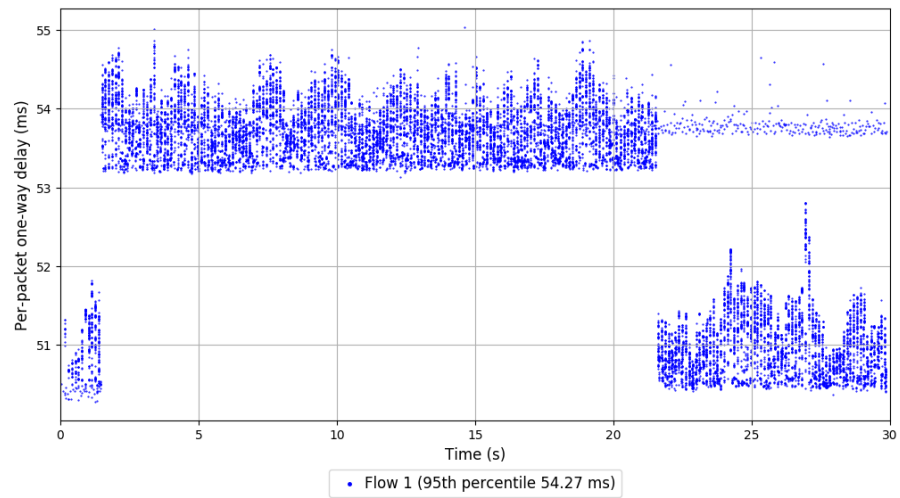
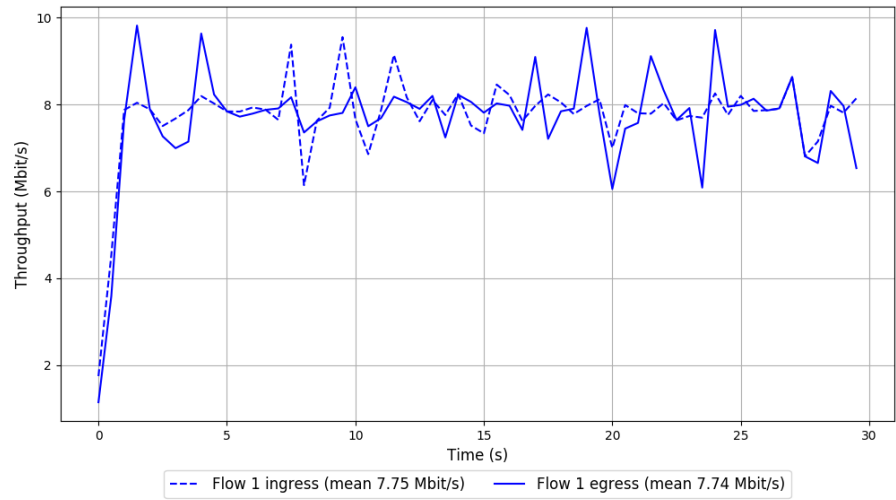
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 0.38%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 03:34:52

End at: 2017-11-21 03:35:22

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.382 ms

Loss rate: 0.44%

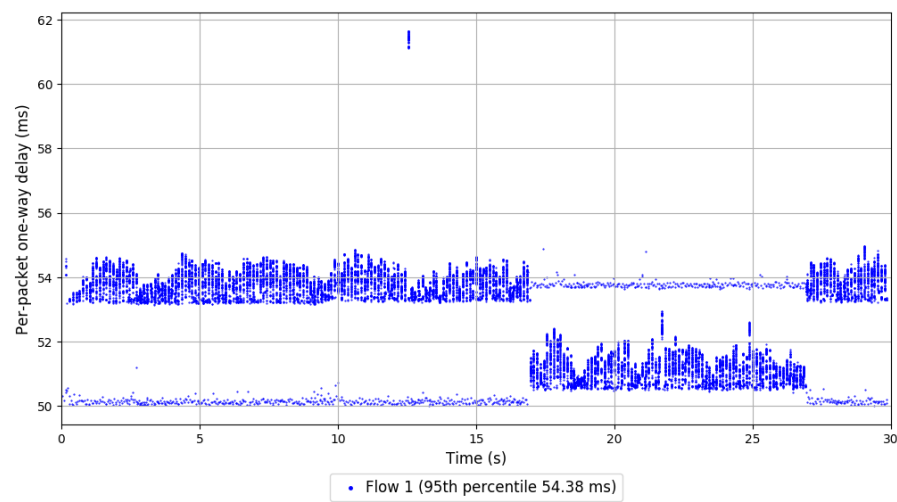
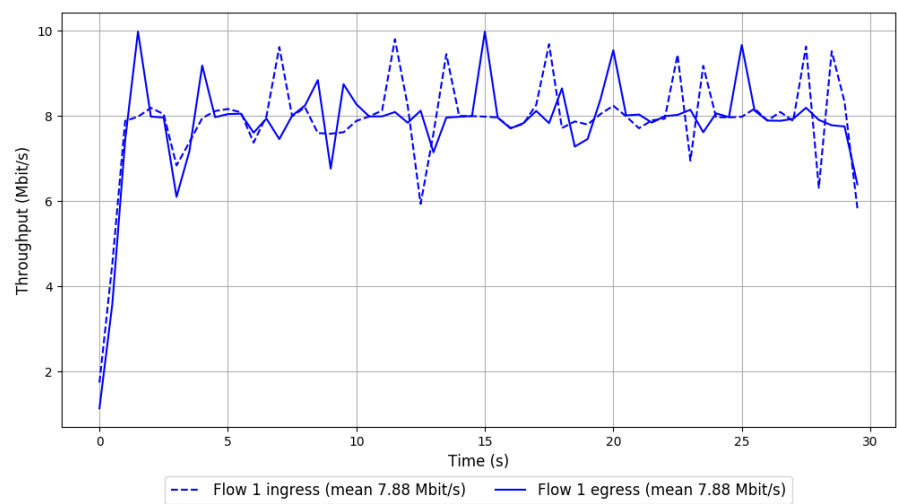
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.382 ms

Loss rate: 0.44%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 03:45:14

End at: 2017-11-21 03:45:44

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.910 ms

Loss rate: 0.43%

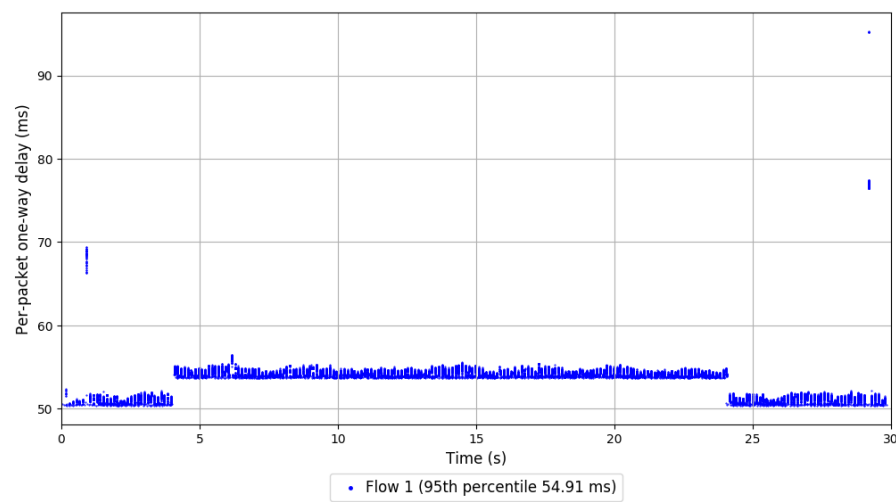
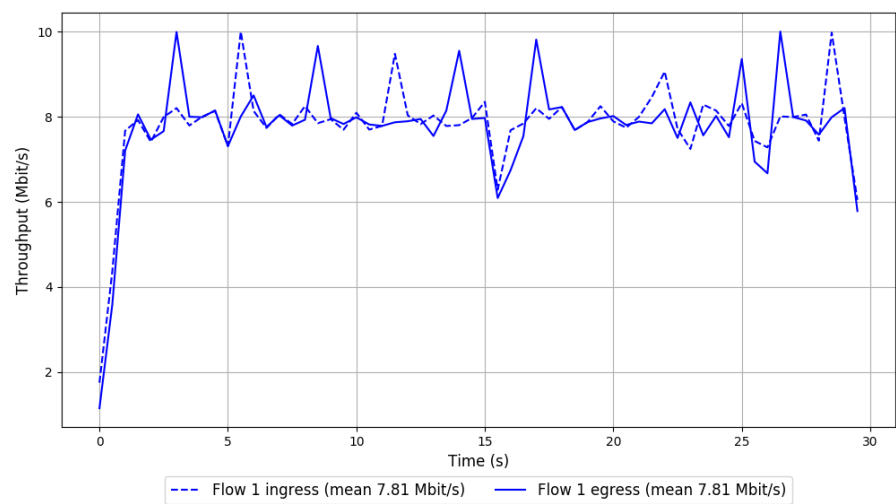
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.910 ms

Loss rate: 0.43%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

End at: 2017-11-21 03:55:58

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 54.669 ms

Loss rate: 0.39%

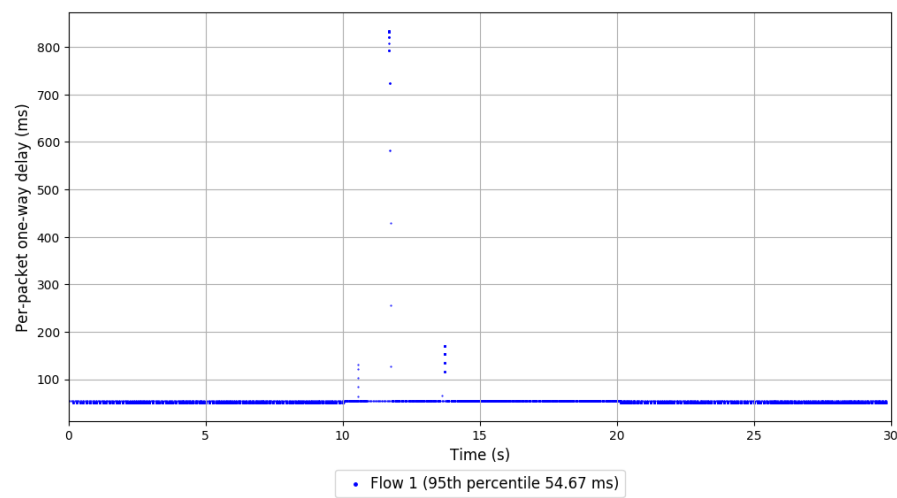
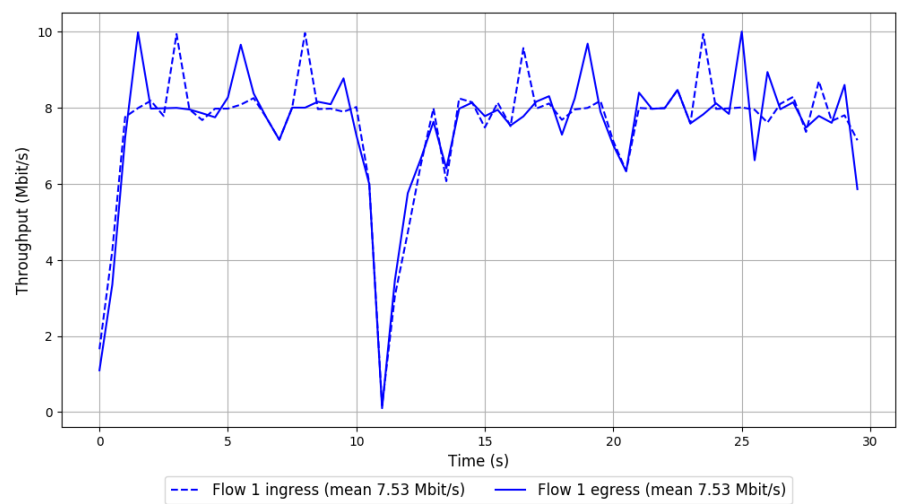
-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 54.669 ms

Loss rate: 0.39%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 04:05:43

End at: 2017-11-21 04:06:13

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.841 ms

Loss rate: 0.40%

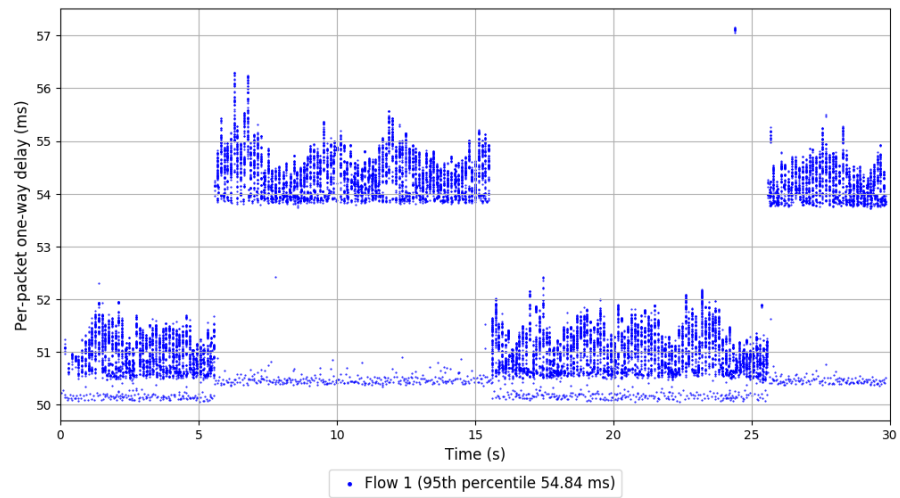
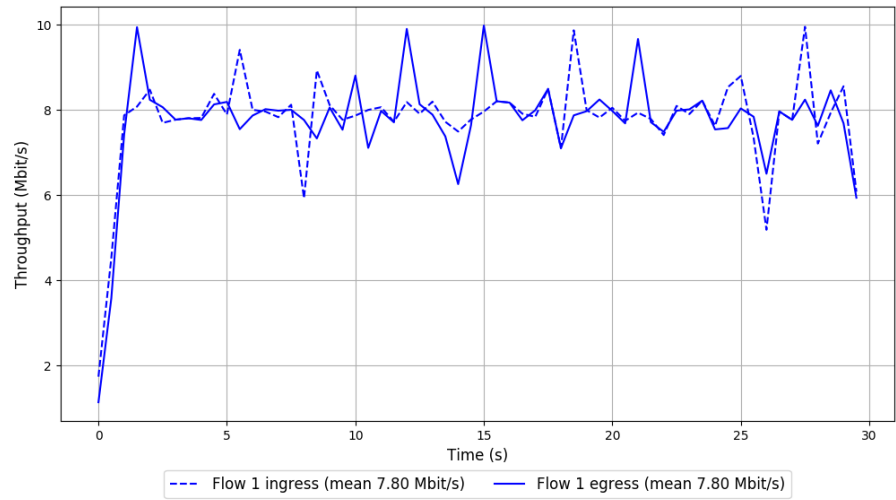
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.841 ms

Loss rate: 0.40%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

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

End at: 2017-11-21 04:16:41

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.794 ms

Loss rate: 0.39%

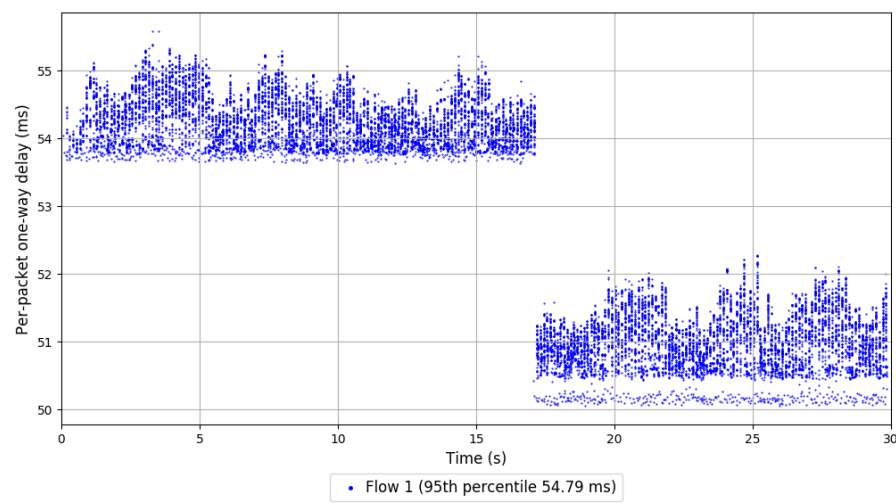
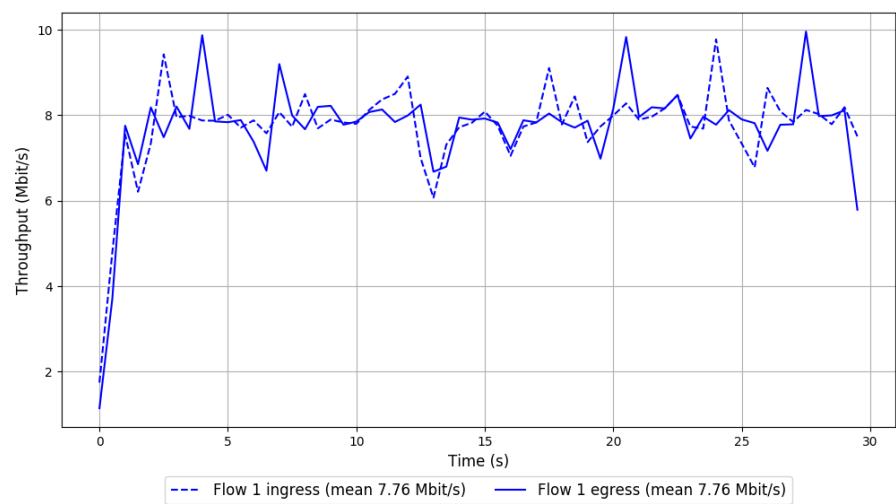
-- Flow 1:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.794 ms

Loss rate: 0.39%

Run 10: Report of Sprout — Data Link

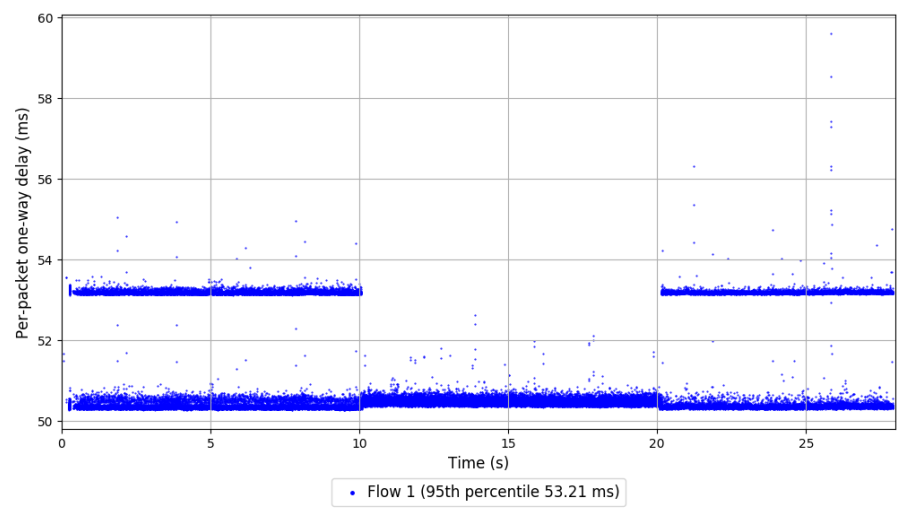
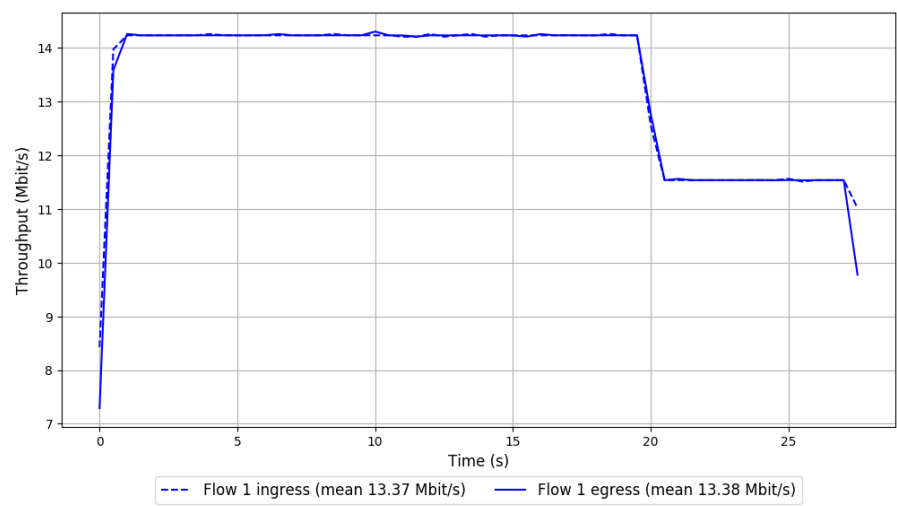


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 02:44:26
End at: 2017-11-21 02:44:56

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 53.210 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 53.210 ms
Loss rate: 0.33%
```


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

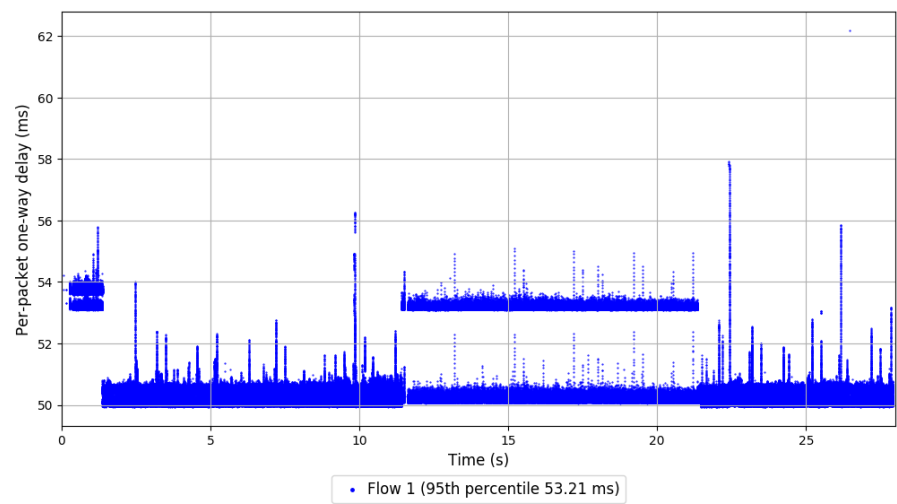
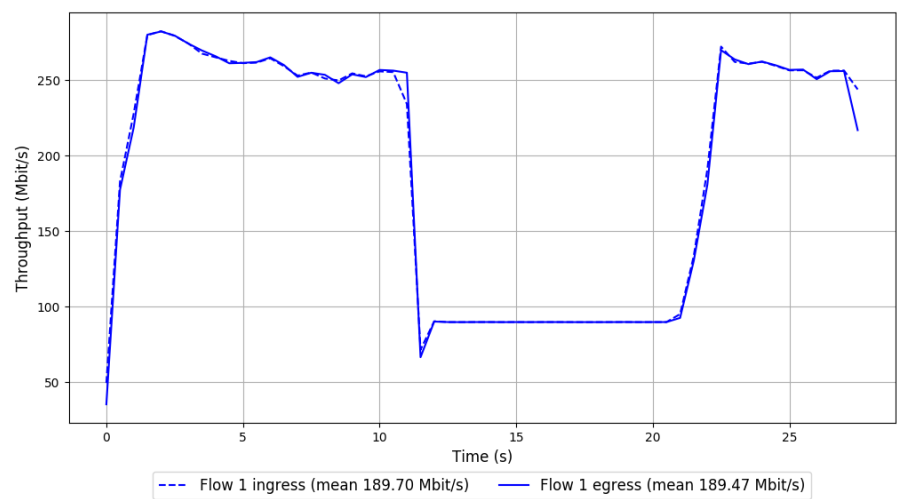


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 02:54:45
End at: 2017-11-21 02:55:15

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.47 Mbit/s
95th percentile per-packet one-way delay: 53.211 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 189.47 Mbit/s
95th percentile per-packet one-way delay: 53.211 ms
Loss rate: 0.51%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 03:05:13

End at: 2017-11-21 03:05:43

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 53.748 ms

Loss rate: 2.08%

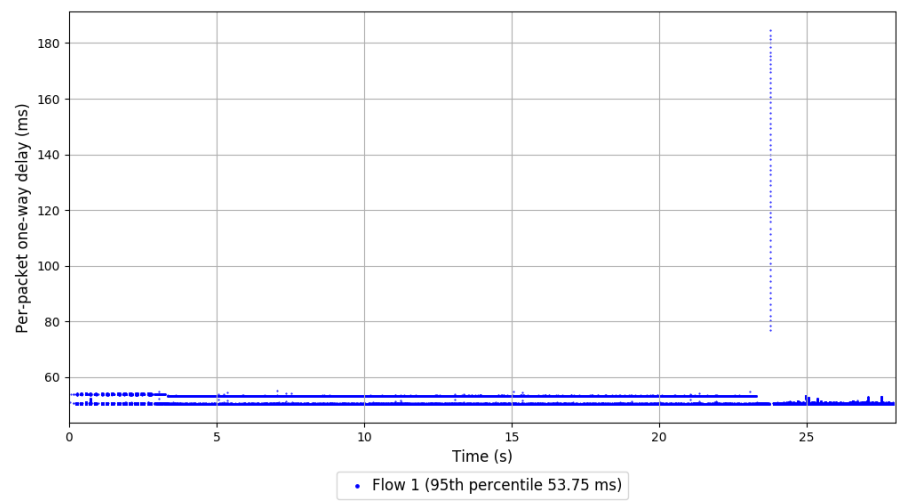
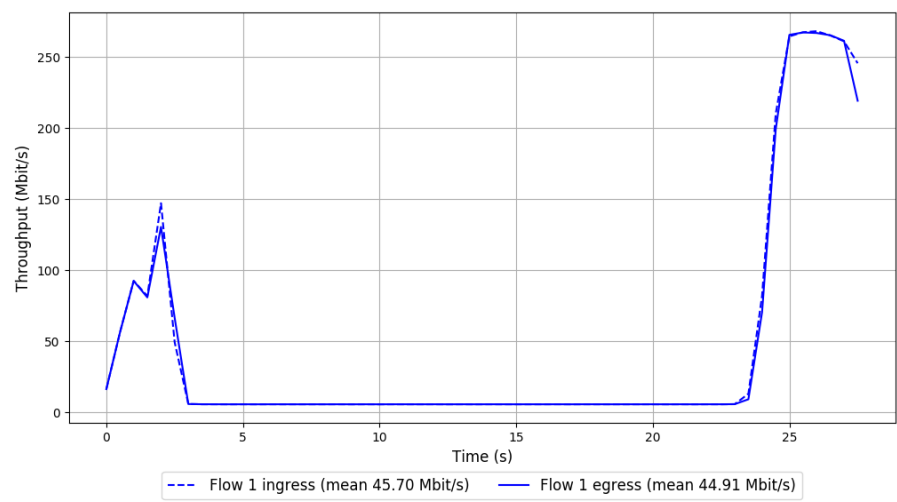
-- Flow 1:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 53.748 ms

Loss rate: 2.08%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 03:15:32

End at: 2017-11-21 03:16:02

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.19 Mbit/s

95th percentile per-packet one-way delay: 54.588 ms

Loss rate: 0.64%

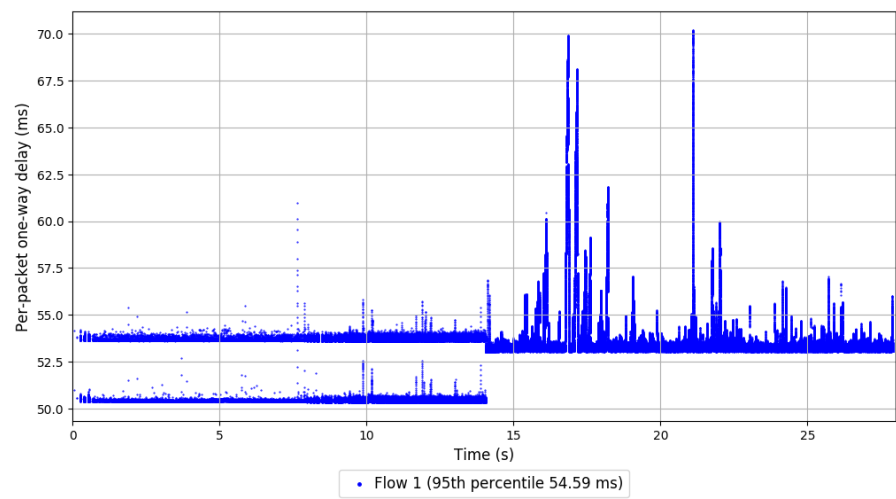
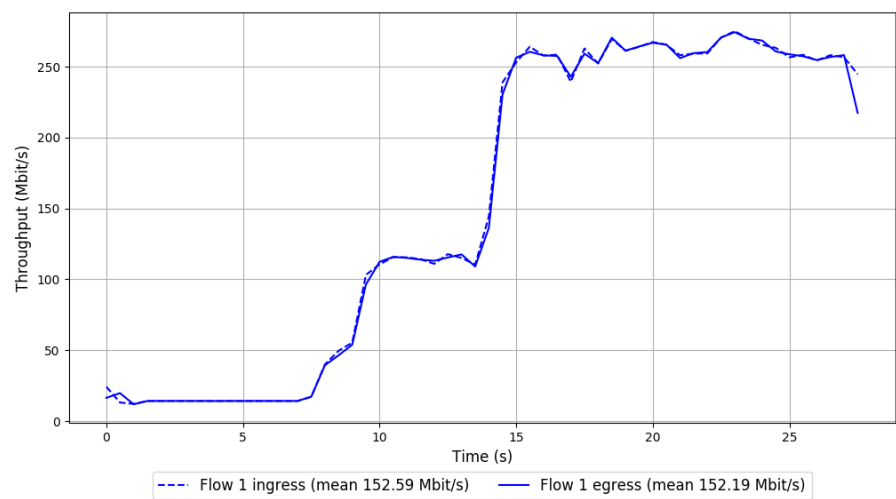
-- Flow 1:

Average throughput: 152.19 Mbit/s

95th percentile per-packet one-way delay: 54.588 ms

Loss rate: 0.64%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 03:25:52

End at: 2017-11-21 03:26:22

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.69 Mbit/s

95th percentile per-packet one-way delay: 53.197 ms

Loss rate: 0.05%

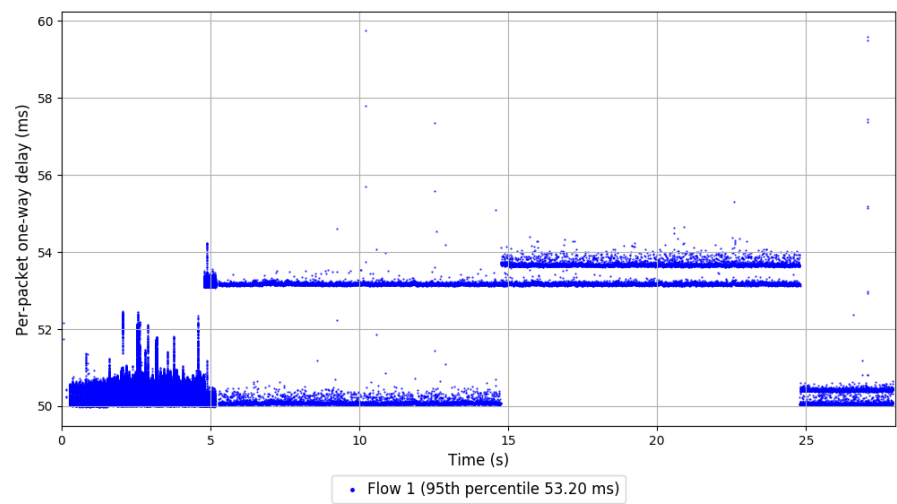
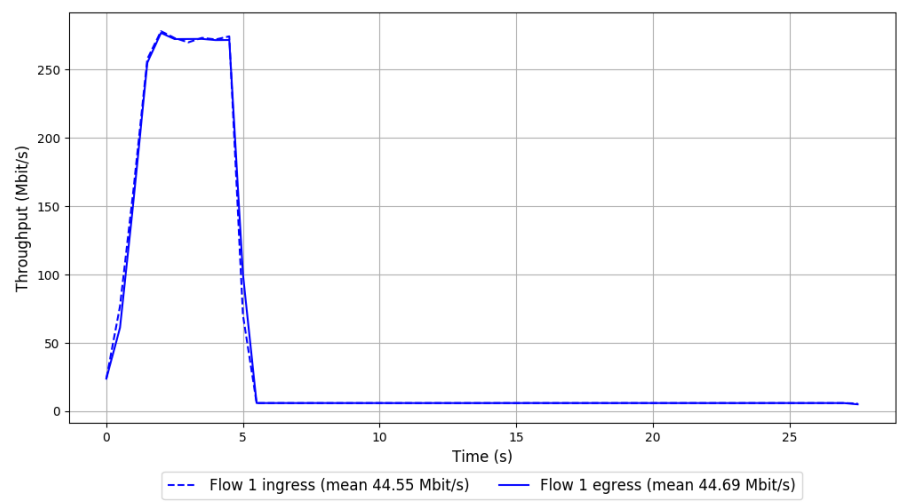
-- Flow 1:

Average throughput: 44.69 Mbit/s

95th percentile per-packet one-way delay: 53.197 ms

Loss rate: 0.05%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 03:36:06

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.02 Mbit/s

95th percentile per-packet one-way delay: 53.188 ms

Loss rate: 0.24%

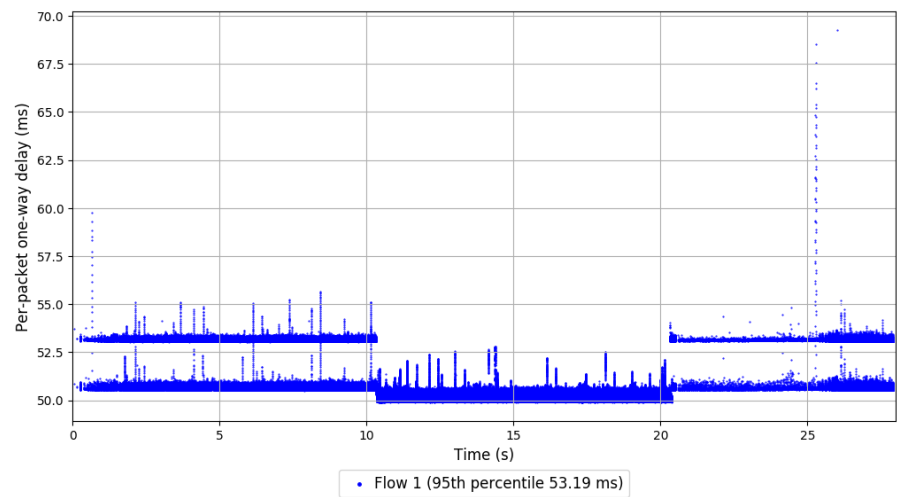
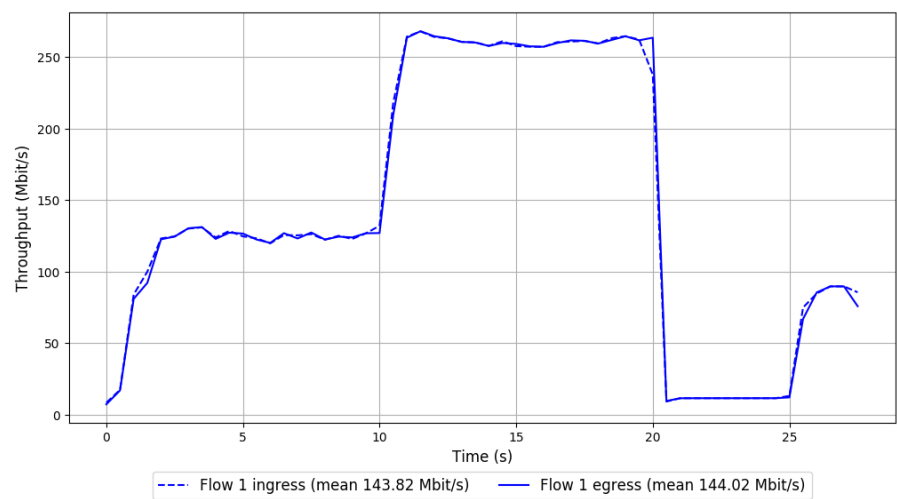
-- Flow 1:

Average throughput: 144.02 Mbit/s

95th percentile per-packet one-way delay: 53.188 ms

Loss rate: 0.24%

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

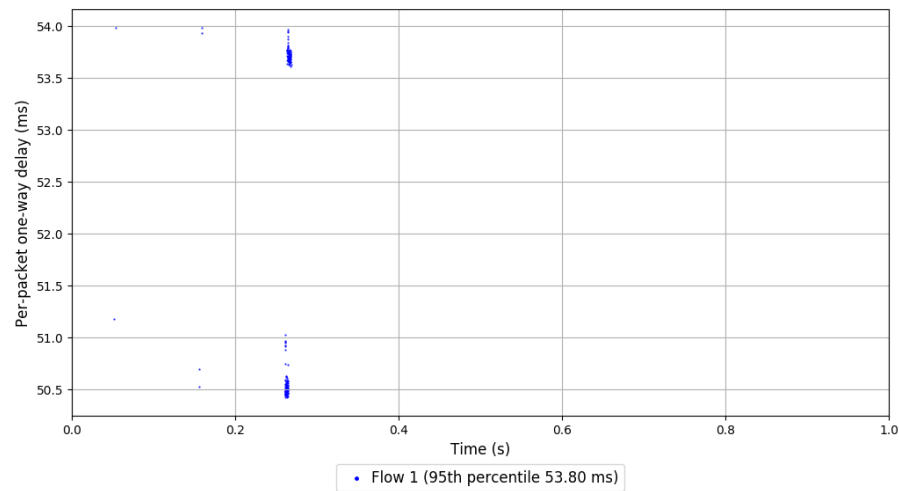
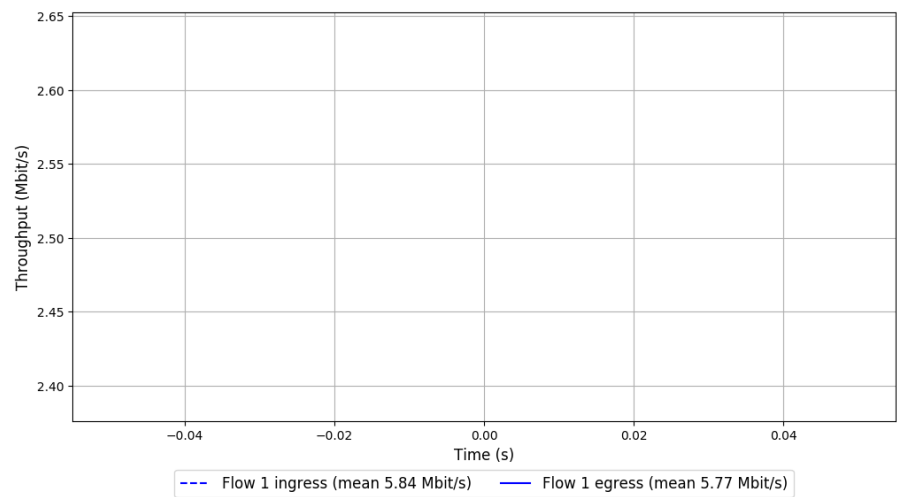


Run 7: Statistics of TaoVA-100x

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

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

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

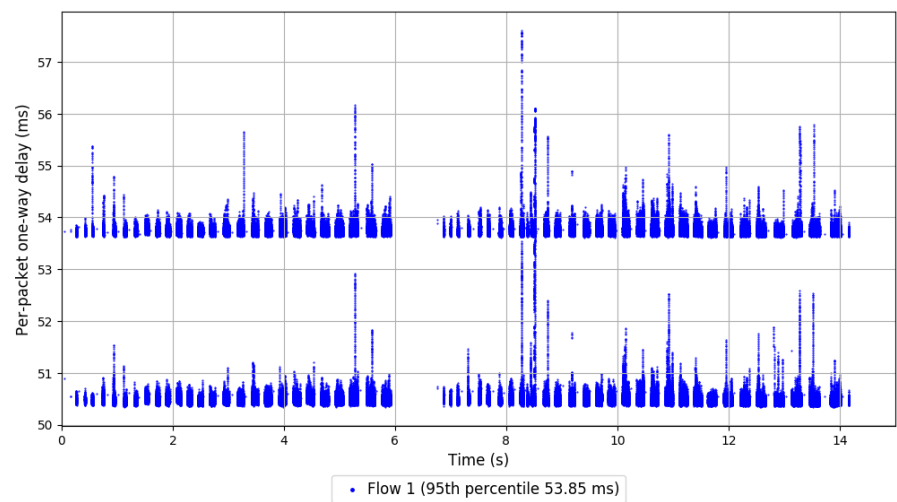
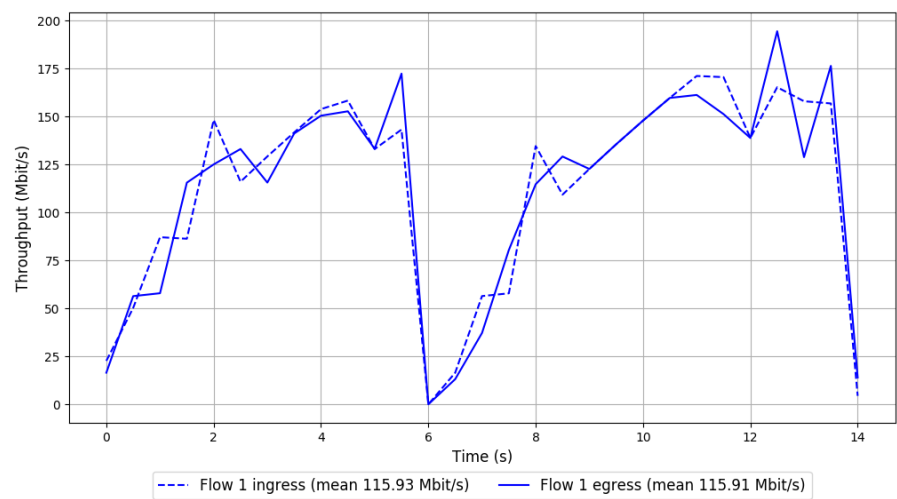


Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 03:56:43

End at: 2017-11-21 03:57:13

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 04:06:58

End at: 2017-11-21 04:07:28

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.76 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.54%

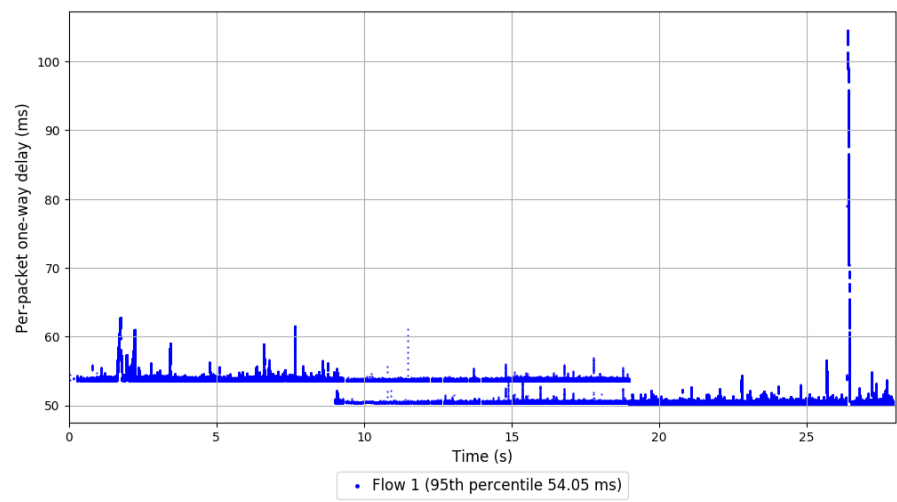
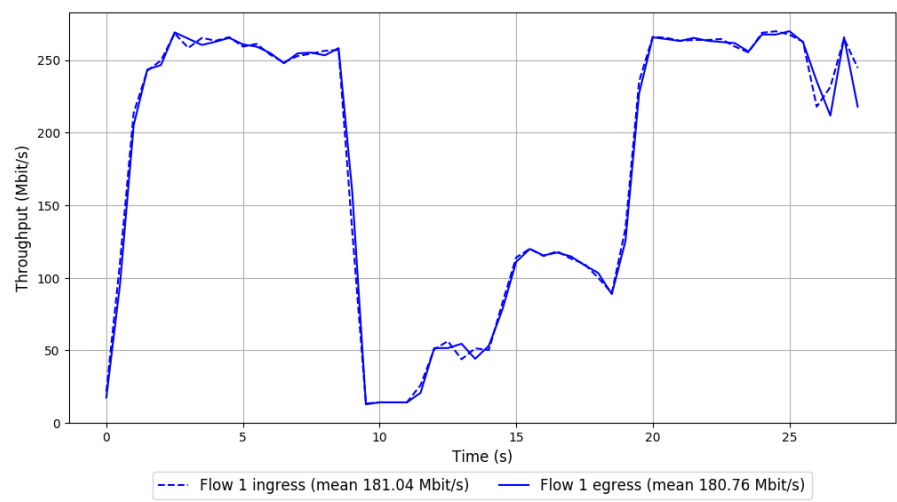
-- Flow 1:

Average throughput: 180.76 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.54%

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

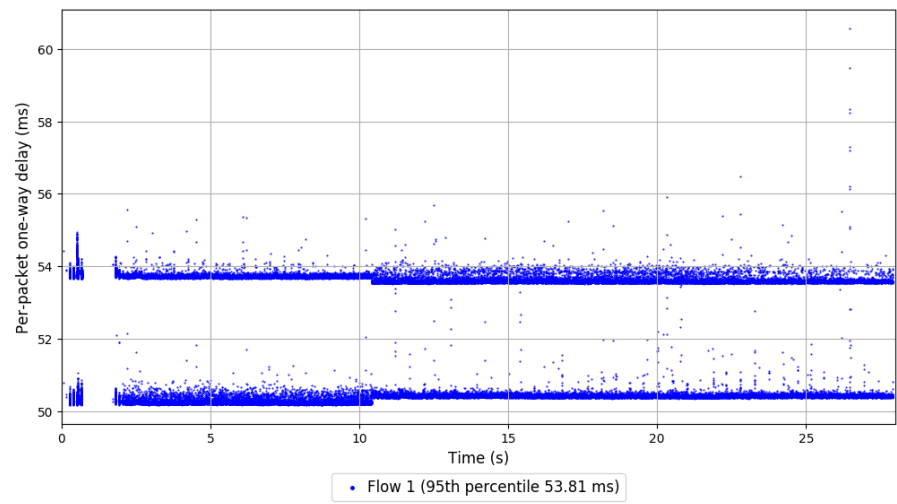
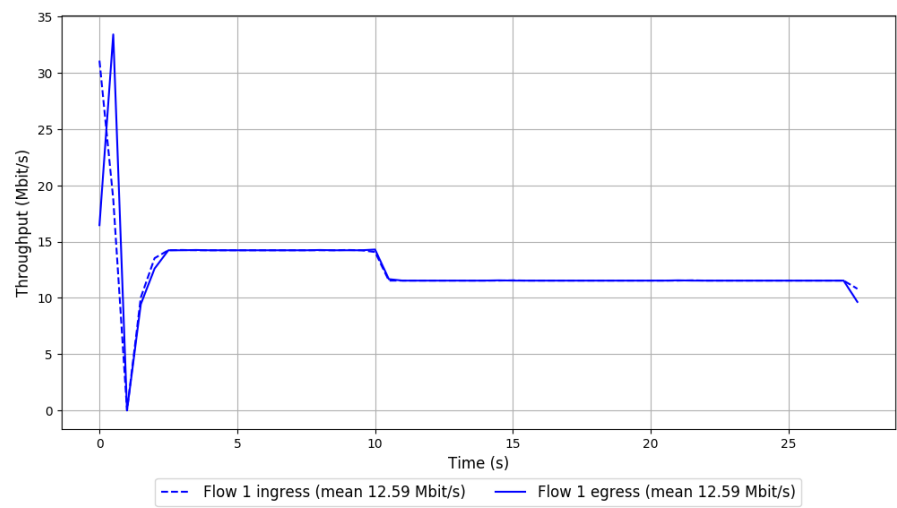


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 04:17:26
End at: 2017-11-21 04:17:56

# Below is generated by plot.py at 2017-11-21 06:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 53.806 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 53.806 ms
Loss rate: 0.33%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 02:41:57

End at: 2017-11-21 02:42:27

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 54.345 ms

Loss rate: 0.31%

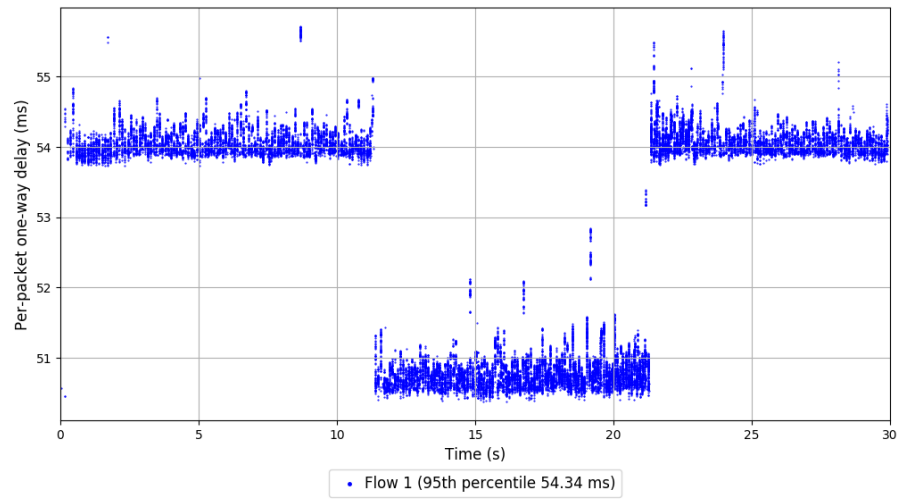
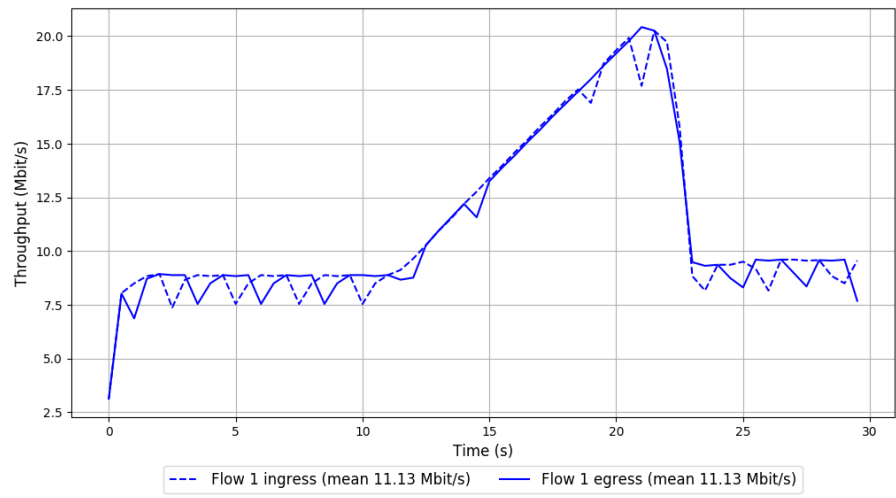
-- Flow 1:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 54.345 ms

Loss rate: 0.31%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 02:52:12

End at: 2017-11-21 02:52:42

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 54.351 ms

Loss rate: 0.27%

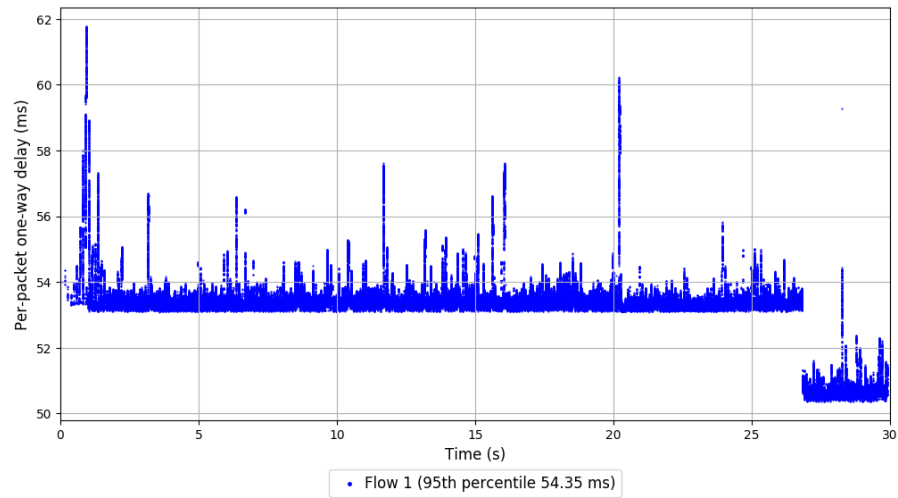
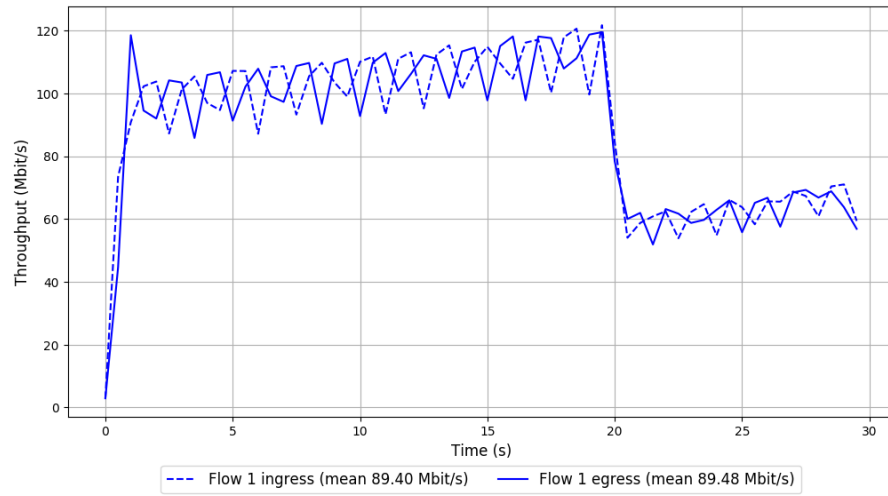
-- Flow 1:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 54.351 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 03:02:44

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

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.40%

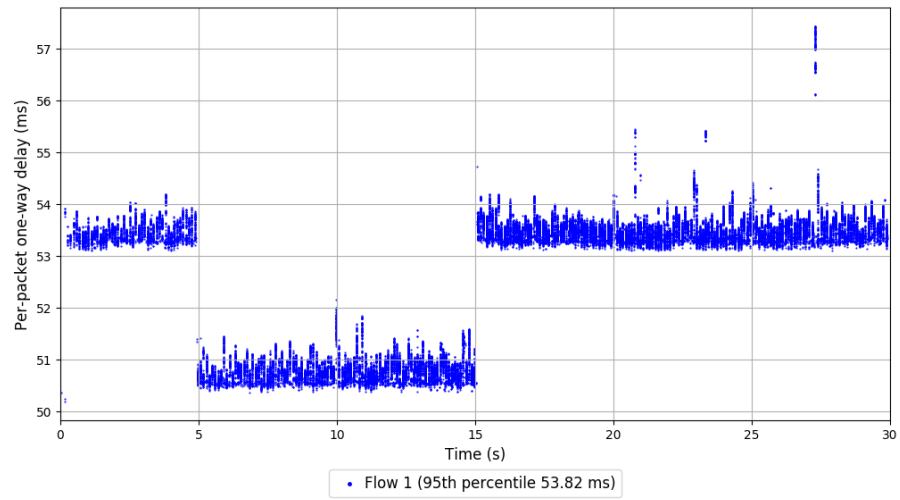
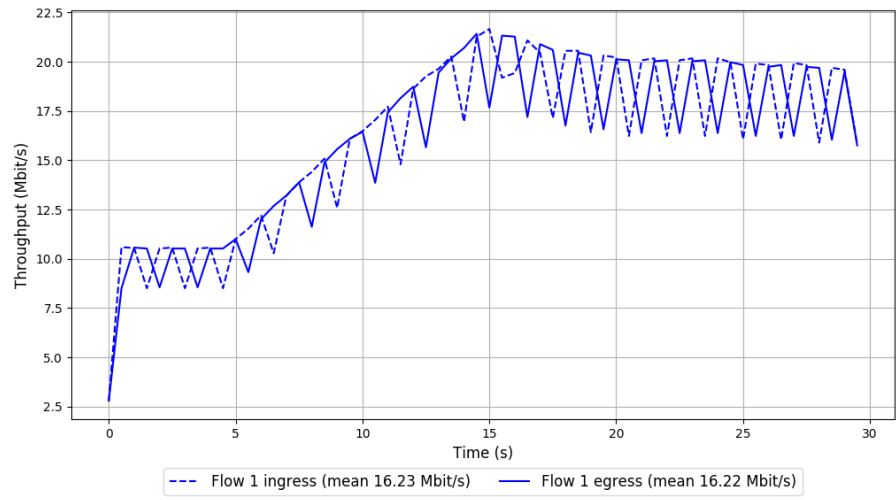
-- Flow 1:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.40%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 03:12:59

End at: 2017-11-21 03:13:29

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.08%

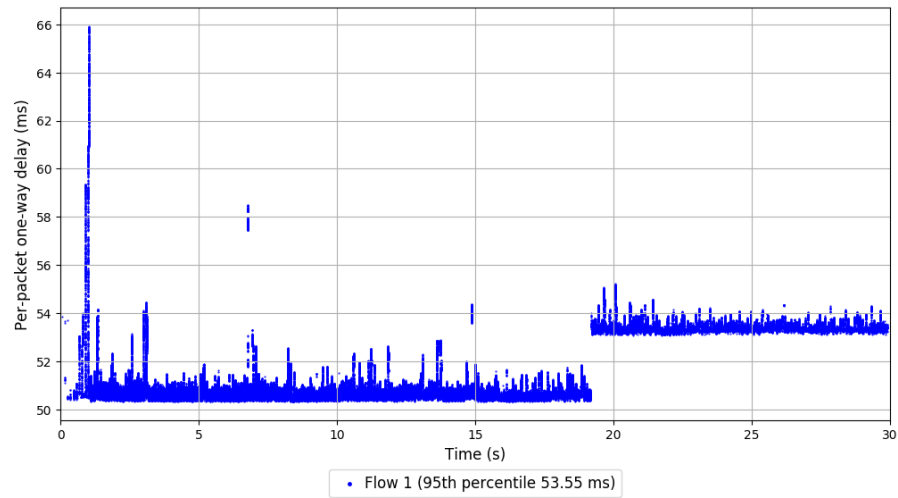
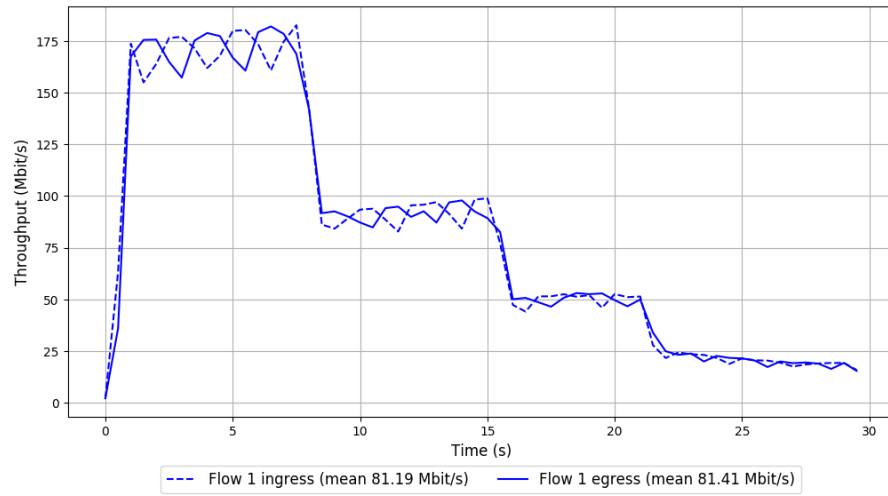
-- Flow 1:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.08%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 03:23:22

End at: 2017-11-21 03:23:52

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 53.898 ms

Loss rate: 0.68%

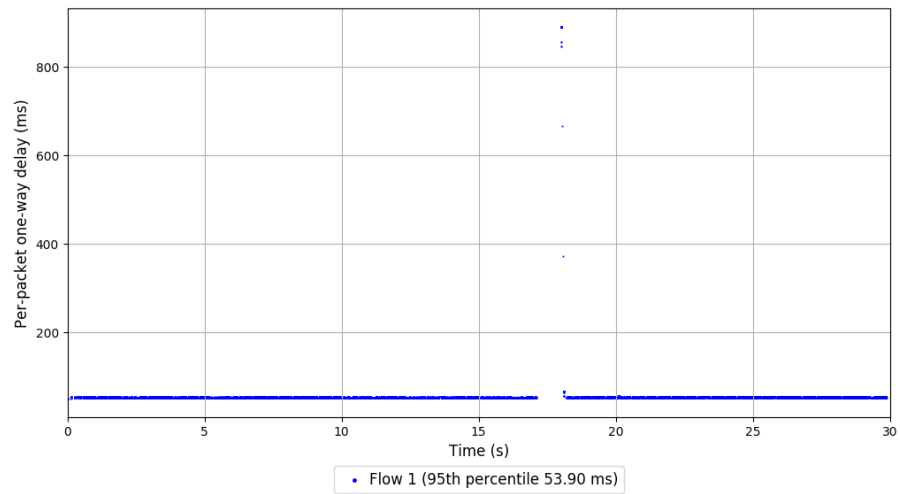
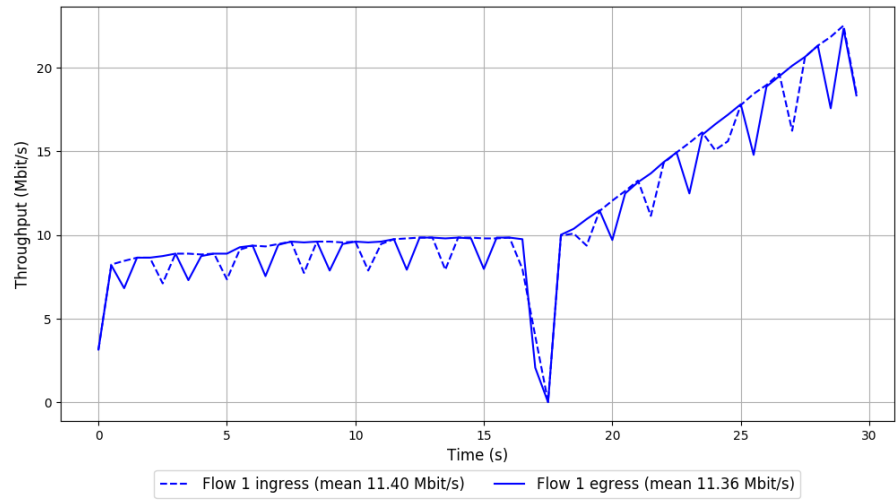
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 53.898 ms

Loss rate: 0.68%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 03:33:35

End at: 2017-11-21 03:34:05

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.97 Mbit/s

95th percentile per-packet one-way delay: 54.118 ms

Loss rate: 0.42%

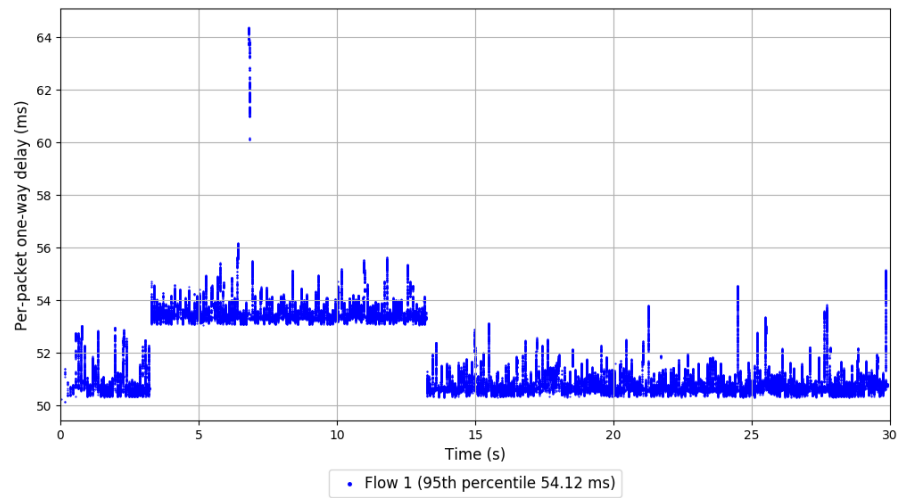
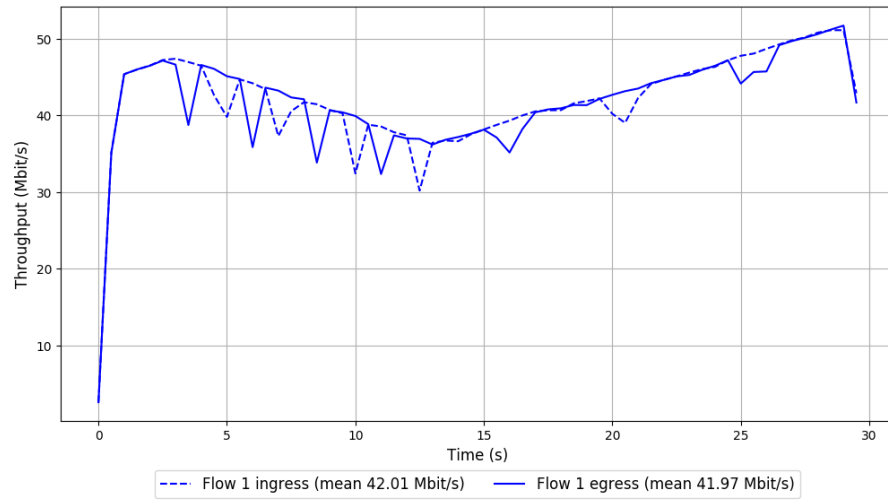
-- Flow 1:

Average throughput: 41.97 Mbit/s

95th percentile per-packet one-way delay: 54.118 ms

Loss rate: 0.42%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 03:43:57

End at: 2017-11-21 03:44:27

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.51 Mbit/s

95th percentile per-packet one-way delay: 54.623 ms

Loss rate: 0.21%

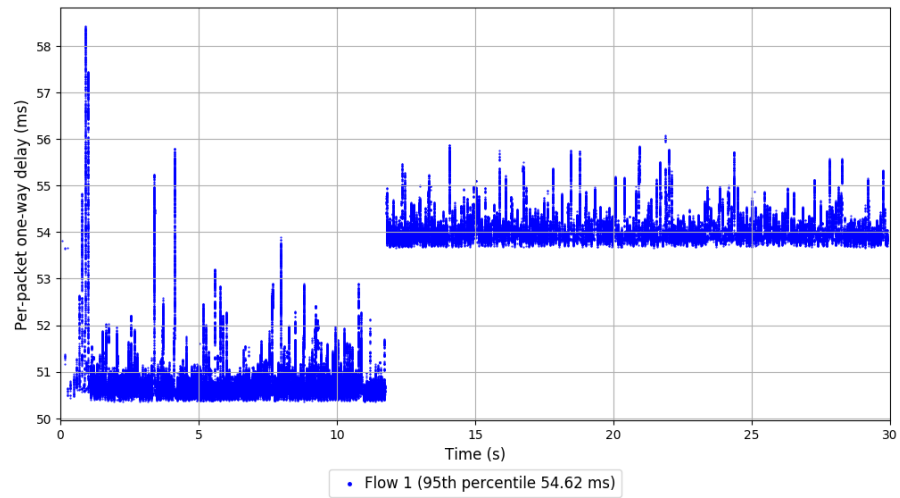
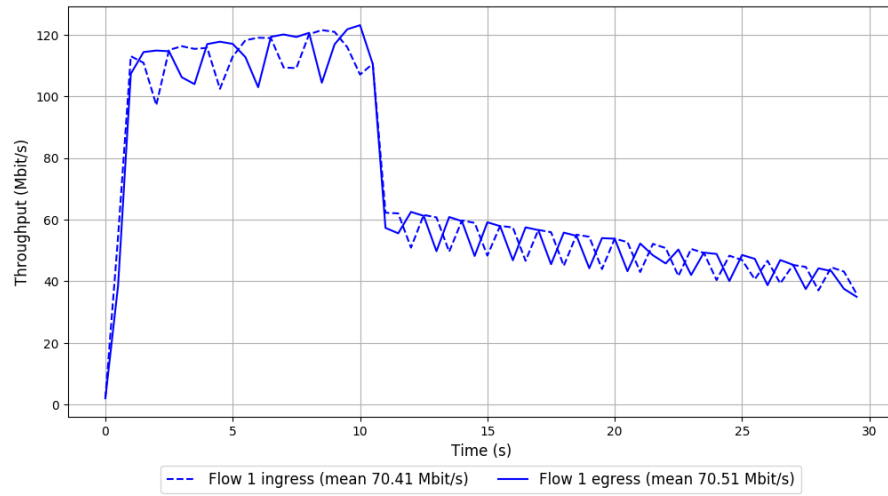
-- Flow 1:

Average throughput: 70.51 Mbit/s

95th percentile per-packet one-way delay: 54.623 ms

Loss rate: 0.21%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 03:54:14

End at: 2017-11-21 03:54:44

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 54.302 ms

Loss rate: 0.40%

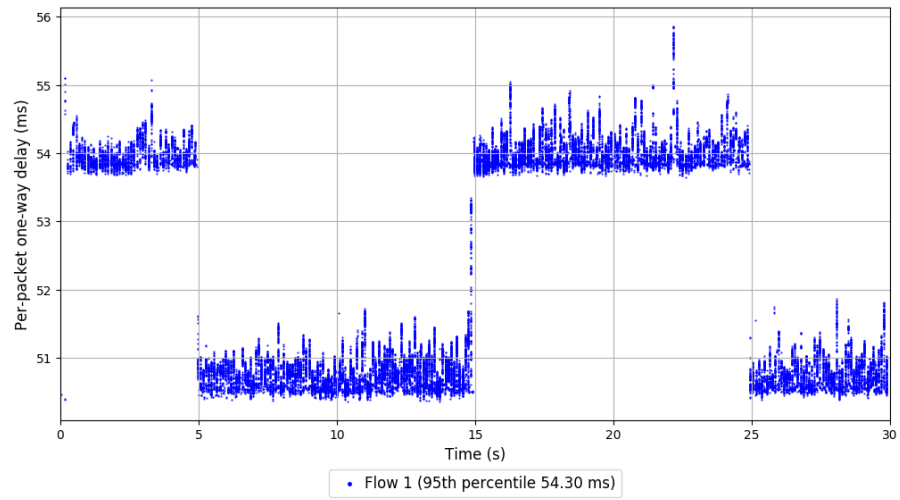
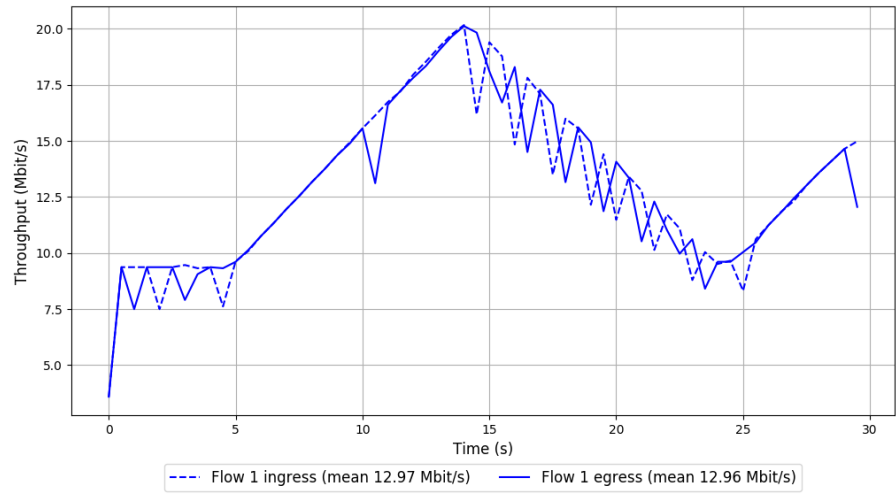
-- Flow 1:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 54.302 ms

Loss rate: 0.40%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 04:04:28

End at: 2017-11-21 04:04:58

Below is generated by plot.py at 2017-11-21 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.41 Mbit/s

95th percentile per-packet one-way delay: 54.637 ms

Loss rate: 0.30%

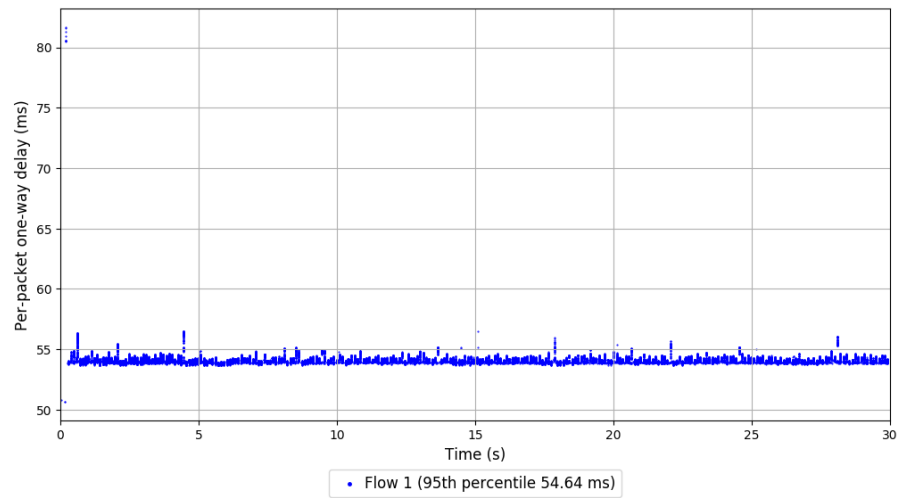
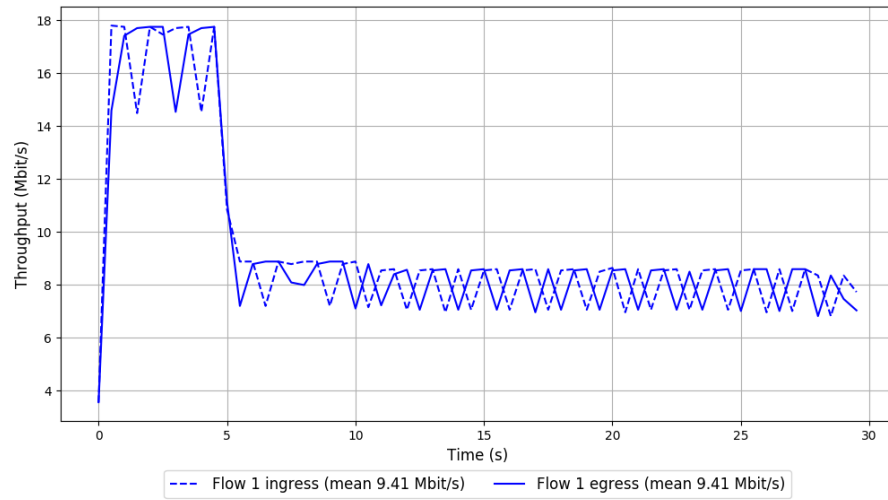
-- Flow 1:

Average throughput: 9.41 Mbit/s

95th percentile per-packet one-way delay: 54.637 ms

Loss rate: 0.30%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

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 06:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.57 Mbit/s

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

Loss rate: 0.30%

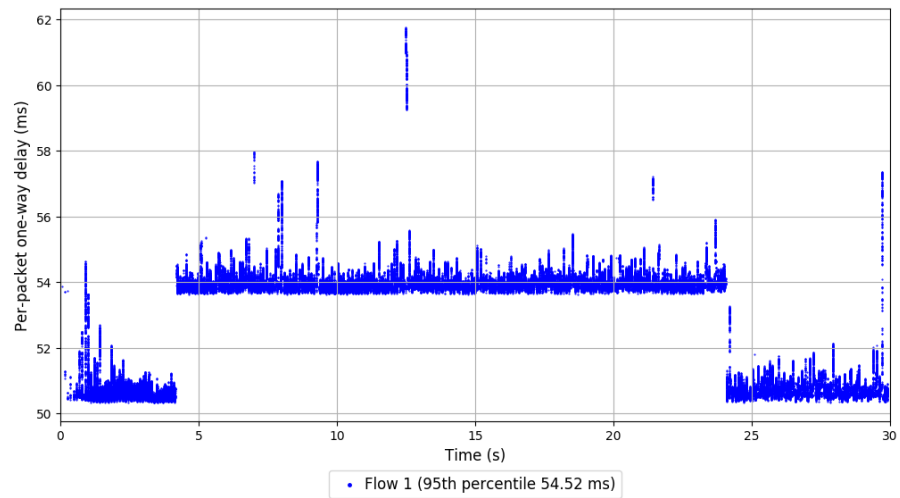
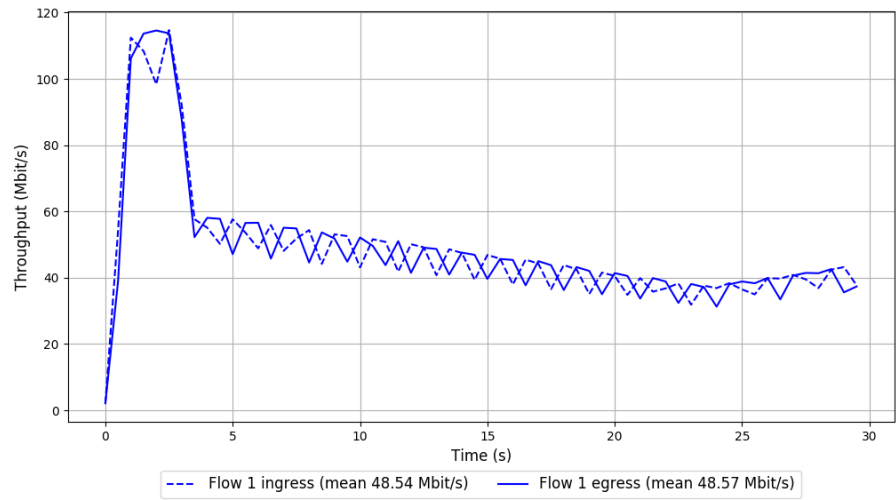
-- Flow 1:

Average throughput: 48.57 Mbit/s

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

Loss rate: 0.30%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-21 02:45:05

End at: 2017-11-21 02:45:35

Below is generated by plot.py at 2017-11-21 06:37:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.09 Mbit/s

95th percentile per-packet one-way delay: 89.188 ms

Loss rate: 0.71%

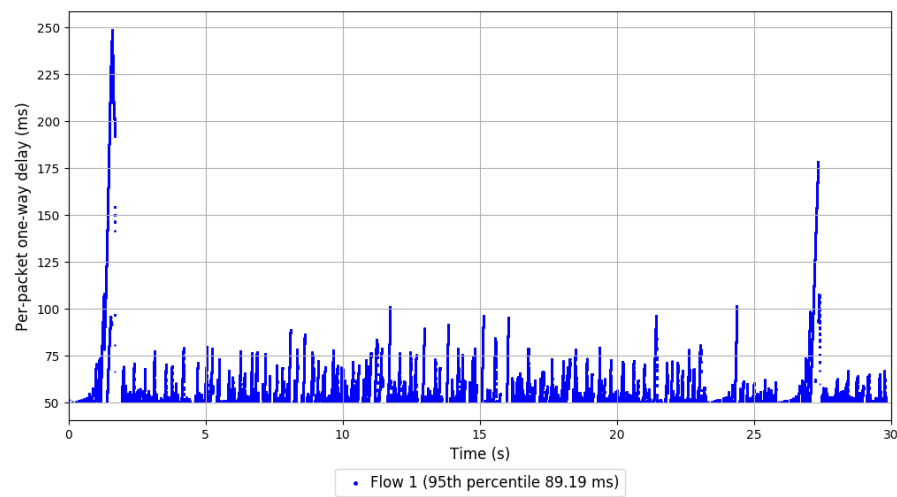
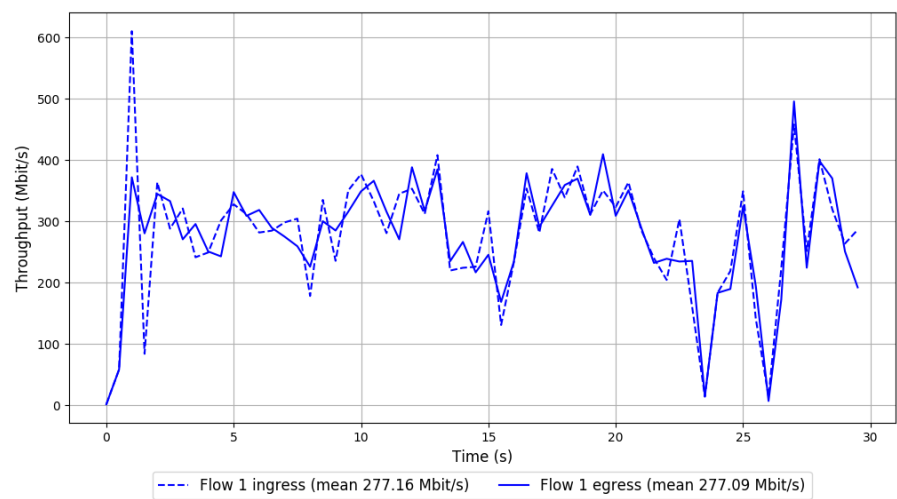
-- Flow 1:

Average throughput: 277.09 Mbit/s

95th percentile per-packet one-way delay: 89.188 ms

Loss rate: 0.71%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 02:55:39

End at: 2017-11-21 02:56:09

Below is generated by plot.py at 2017-11-21 06:37:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.67 Mbit/s

95th percentile per-packet one-way delay: 110.063 ms

Loss rate: 0.45%

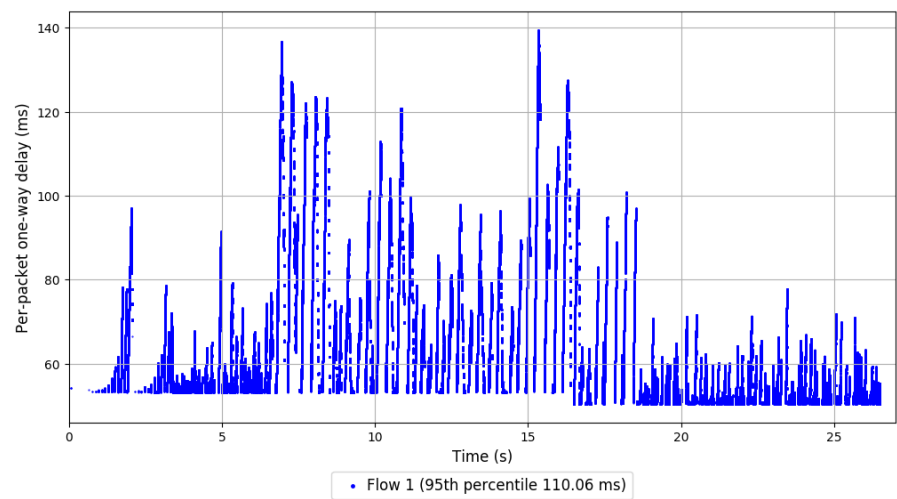
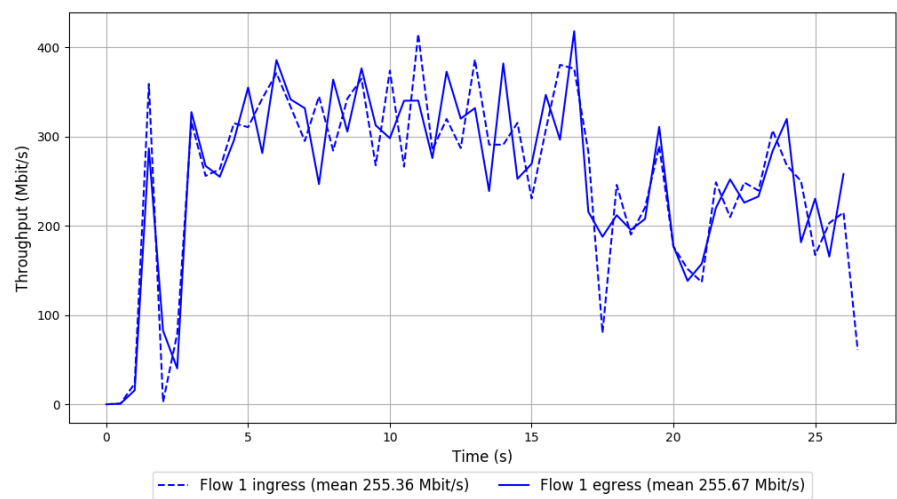
-- Flow 1:

Average throughput: 255.67 Mbit/s

95th percentile per-packet one-way delay: 110.063 ms

Loss rate: 0.45%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 03:05:54

End at: 2017-11-21 03:06:24

Below is generated by plot.py at 2017-11-21 06:37:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.70 Mbit/s

95th percentile per-packet one-way delay: 123.130 ms

Loss rate: 2.29%

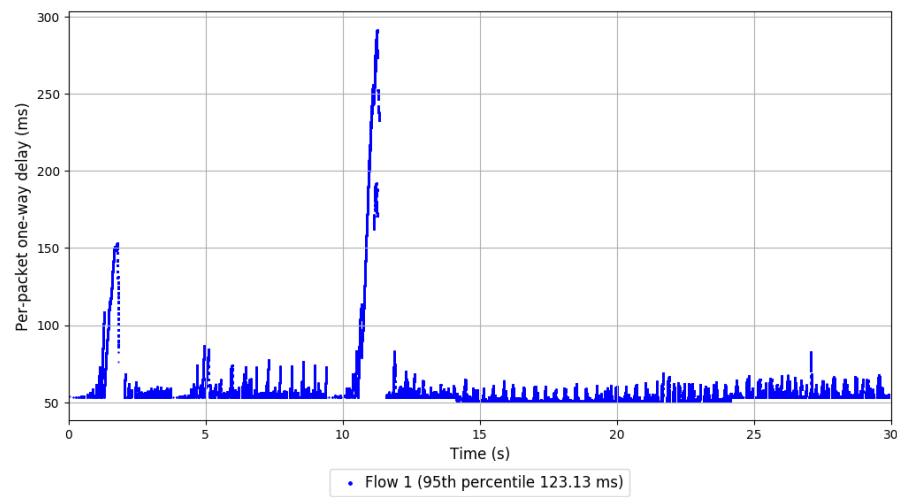
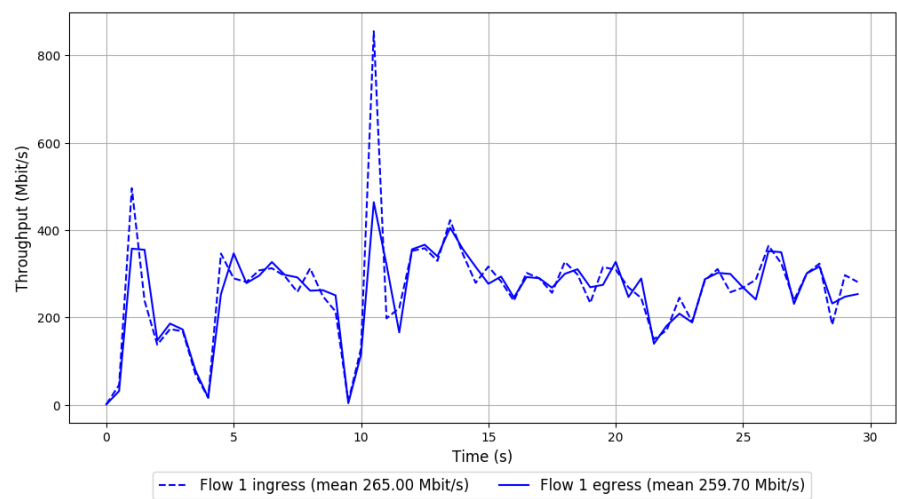
-- Flow 1:

Average throughput: 259.70 Mbit/s

95th percentile per-packet one-way delay: 123.130 ms

Loss rate: 2.29%

Run 3: Report of Verus — Data Link

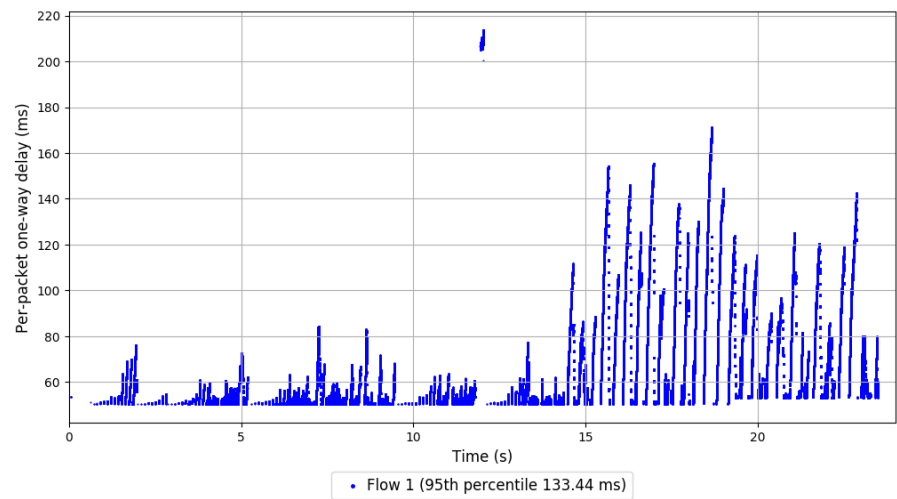
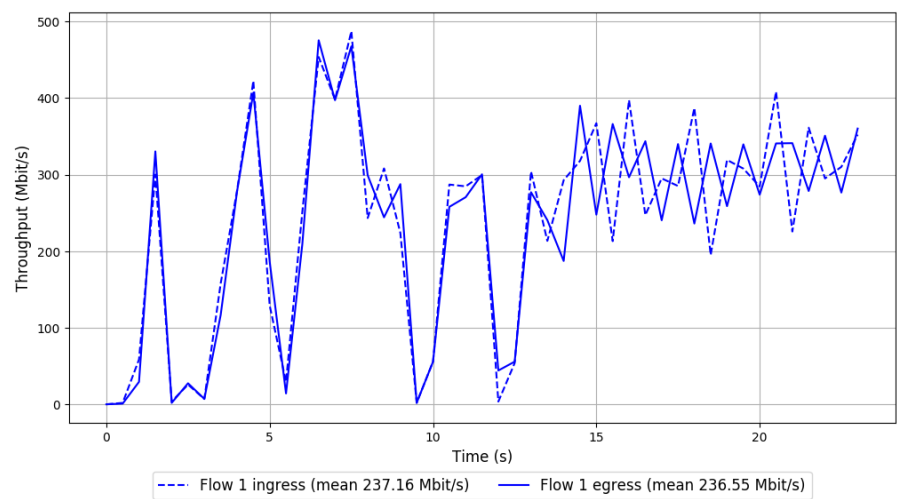


Run 4: Statistics of Verus

Start at: 2017-11-21 03:16:23

End at: 2017-11-21 03:16:53

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 03:26:33

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

Below is generated by plot.py at 2017-11-21 06:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.87 Mbit/s

95th percentile per-packet one-way delay: 135.358 ms

Loss rate: 0.60%

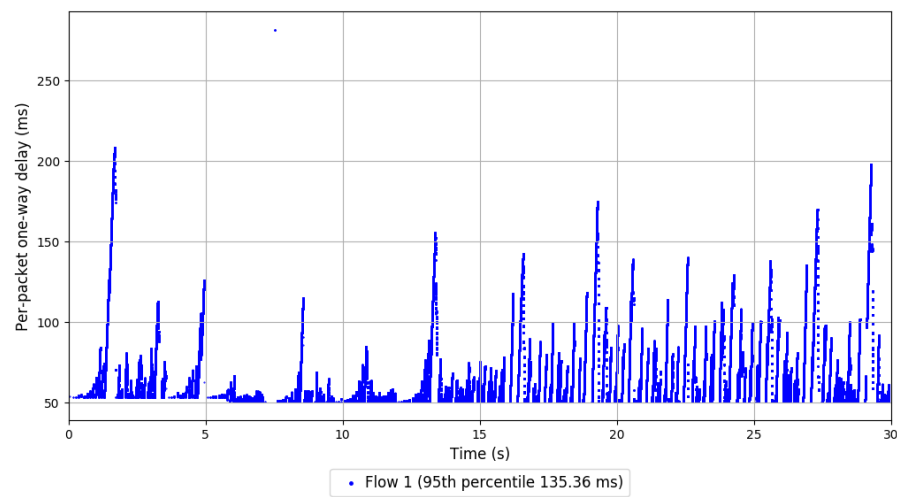
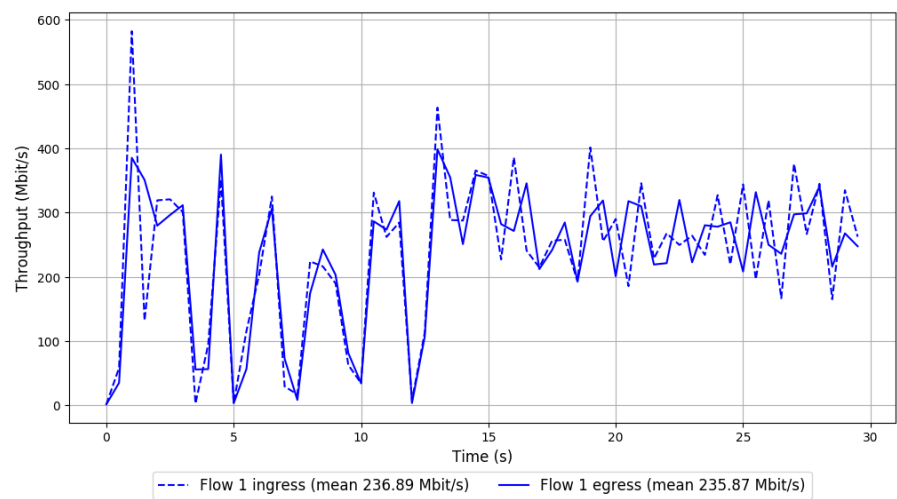
-- Flow 1:

Average throughput: 235.87 Mbit/s

95th percentile per-packet one-way delay: 135.358 ms

Loss rate: 0.60%

Run 5: Report of Verus — Data Link

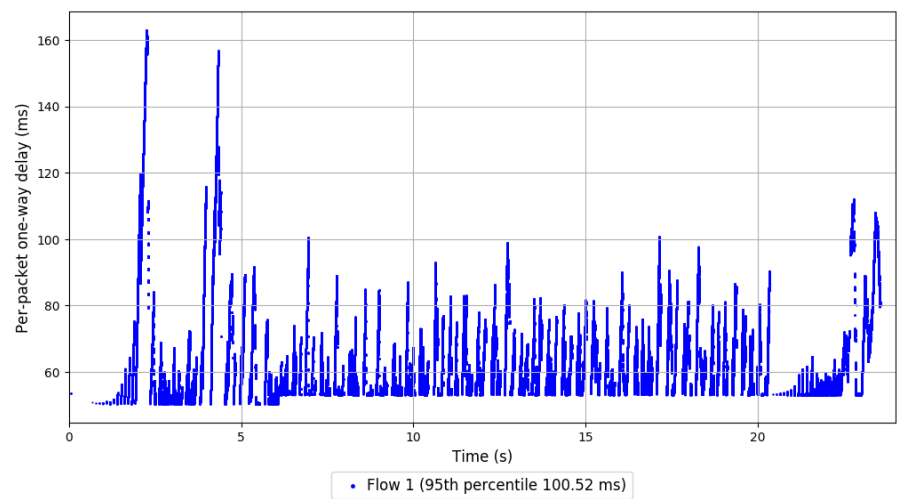
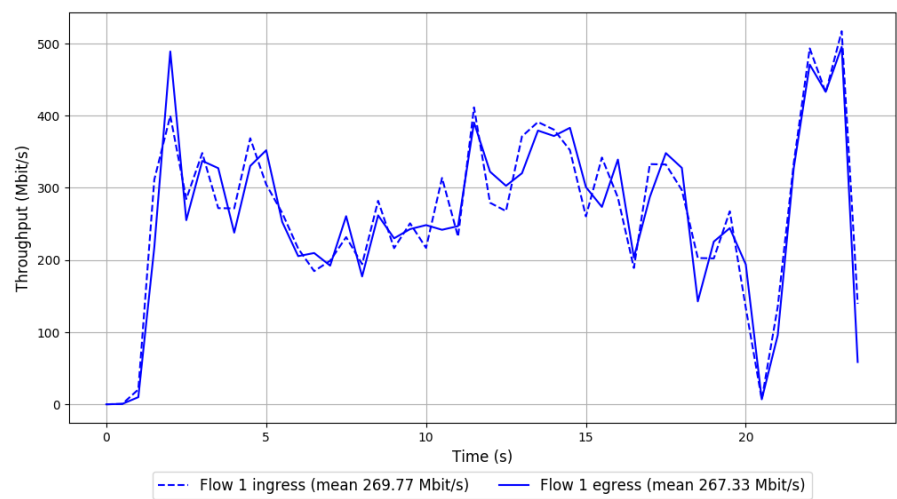


Run 6: Statistics of Verus

Start at: 2017-11-21 03:36:56

End at: 2017-11-21 03:37:26

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

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

End at: 2017-11-21 03:47:36

Below is generated by plot.py at 2017-11-21 06:40:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.63 Mbit/s

95th percentile per-packet one-way delay: 106.691 ms

Loss rate: 0.72%

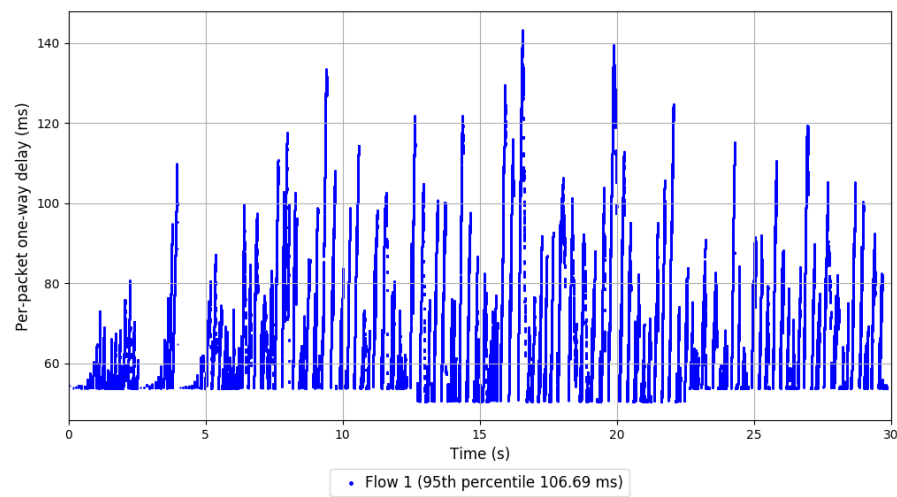
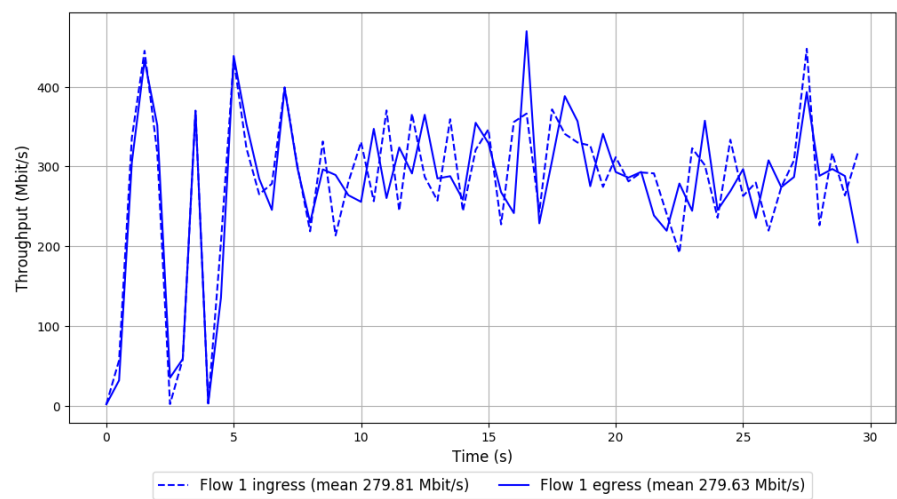
-- Flow 1:

Average throughput: 279.63 Mbit/s

95th percentile per-packet one-way delay: 106.691 ms

Loss rate: 0.72%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

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

End at: 2017-11-21 03:57:54

Below is generated by plot.py at 2017-11-21 06:40:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.76 Mbit/s

95th percentile per-packet one-way delay: 135.077 ms

Loss rate: 0.33%

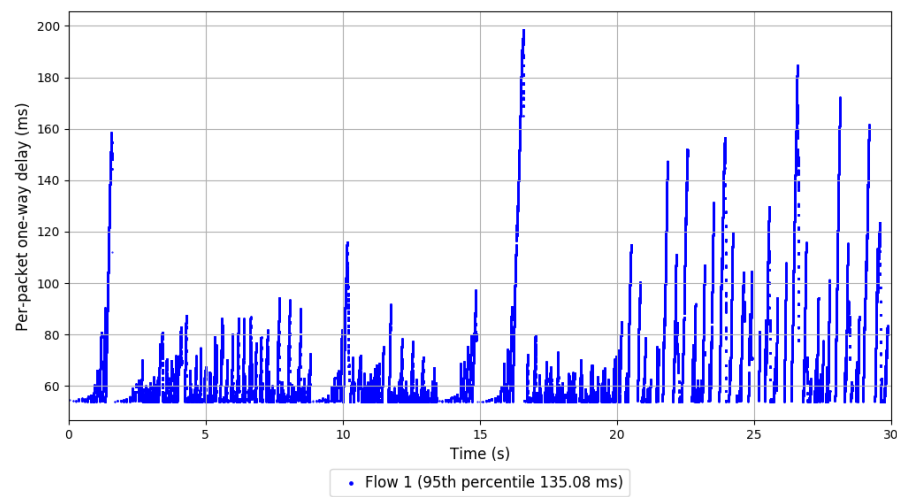
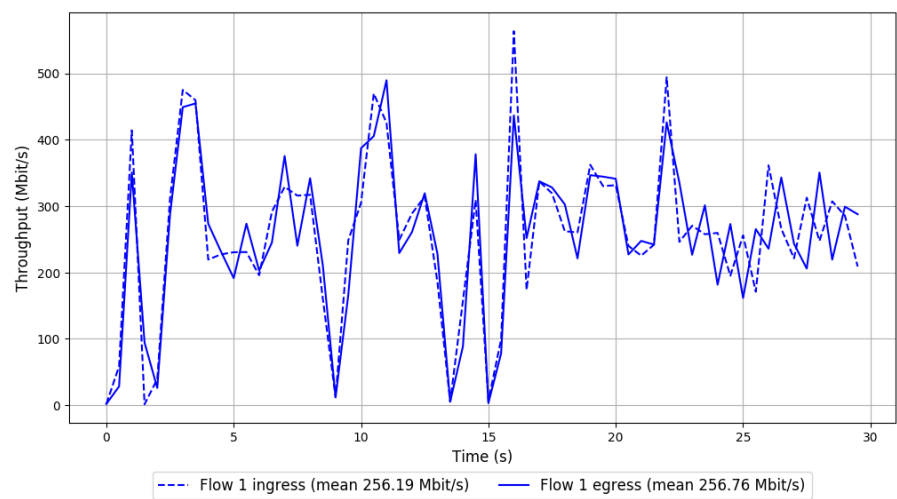
-- Flow 1:

Average throughput: 256.76 Mbit/s

95th percentile per-packet one-way delay: 135.077 ms

Loss rate: 0.33%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 04:07:50

End at: 2017-11-21 04:08:20

Below is generated by plot.py at 2017-11-21 06:40:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.40 Mbit/s

95th percentile per-packet one-way delay: 125.105 ms

Loss rate: 0.44%

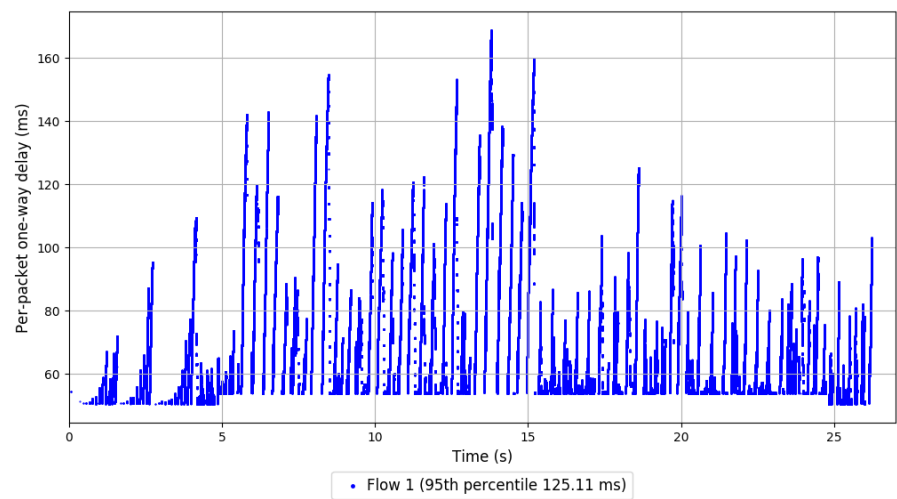
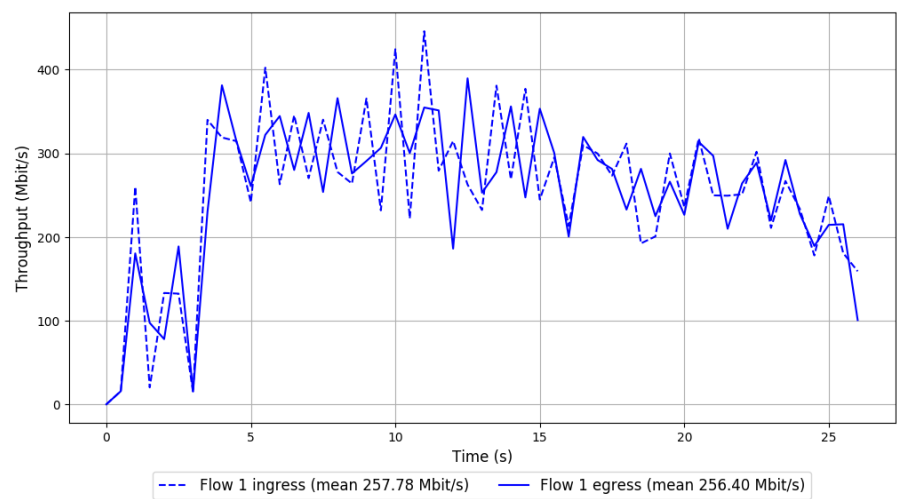
-- Flow 1:

Average throughput: 256.40 Mbit/s

95th percentile per-packet one-way delay: 125.105 ms

Loss rate: 0.44%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 04:18:05

End at: 2017-11-21 04:18:35

Below is generated by plot.py at 2017-11-21 06:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.48 Mbit/s

95th percentile per-packet one-way delay: 90.336 ms

Loss rate: 0.23%

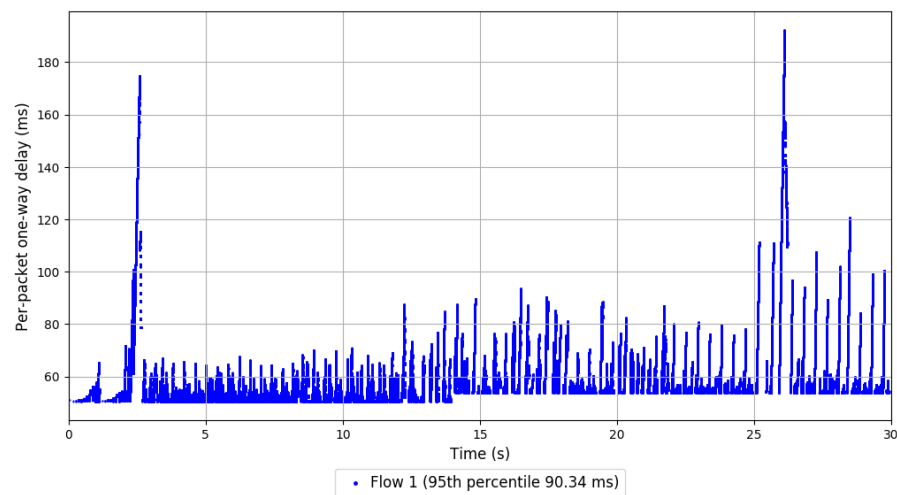
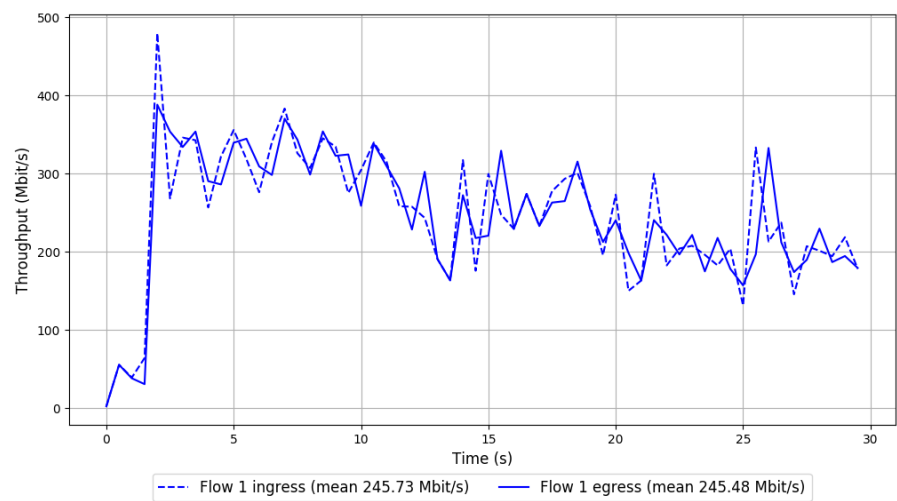
-- Flow 1:

Average throughput: 245.48 Mbit/s

95th percentile per-packet one-way delay: 90.336 ms

Loss rate: 0.23%

Run 10: Report of Verus — Data Link

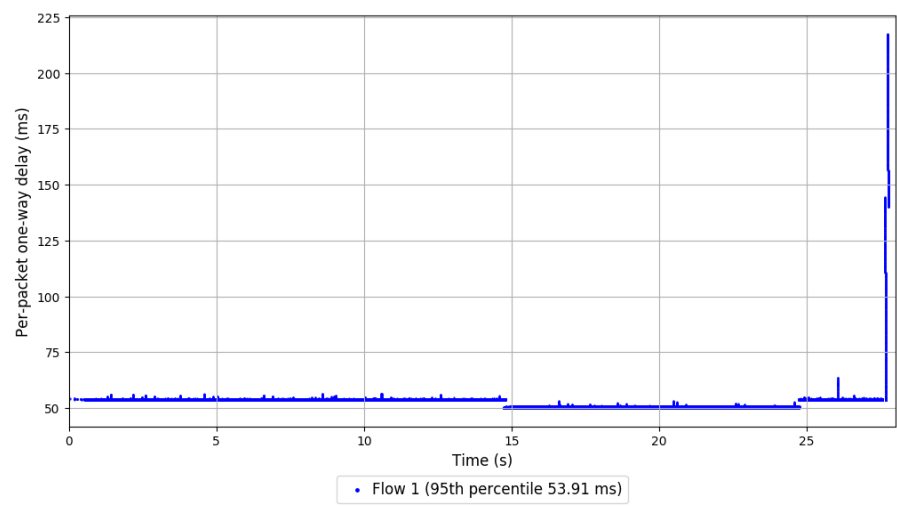
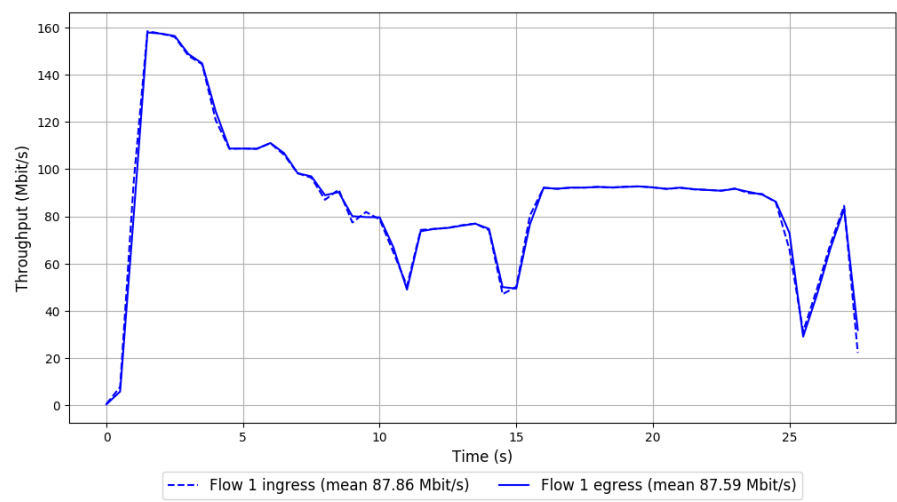


```
Run 1: Statistics of Copa

Start at: 2017-11-21 02:41:12
End at: 2017-11-21 02:41:42

# Below is generated by plot.py at 2017-11-21 06:41:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-21 02:51:27

End at: 2017-11-21 02:51:57

Below is generated by plot.py at 2017-11-21 06:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.82 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.40%

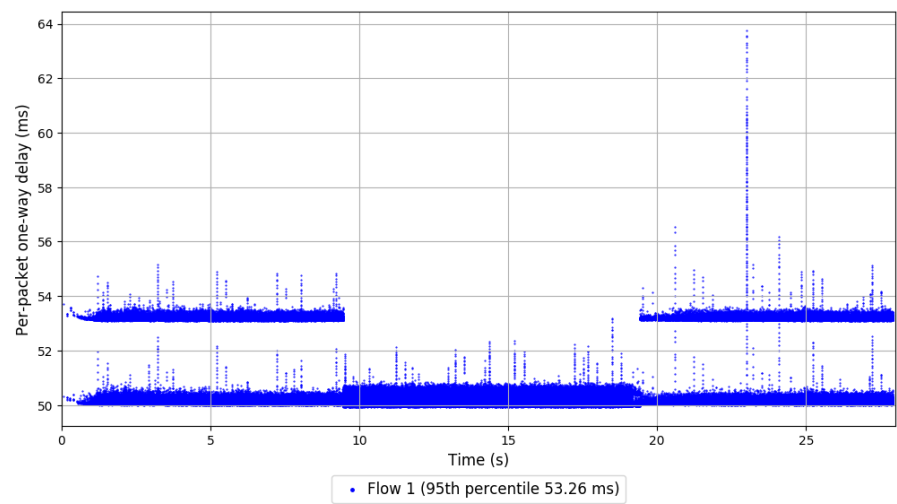
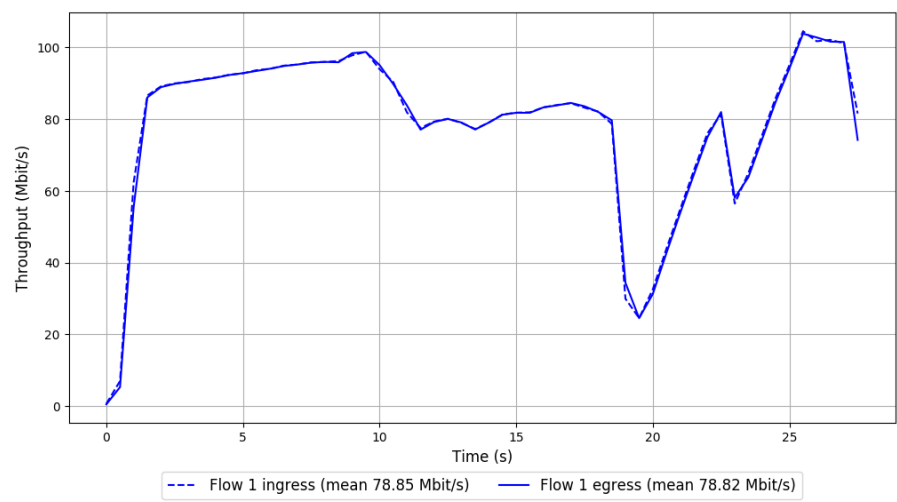
-- Flow 1:

Average throughput: 78.82 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.40%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 03:01:59

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

Below is generated by plot.py at 2017-11-21 06:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.42 Mbit/s

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

Loss rate: 0.29%

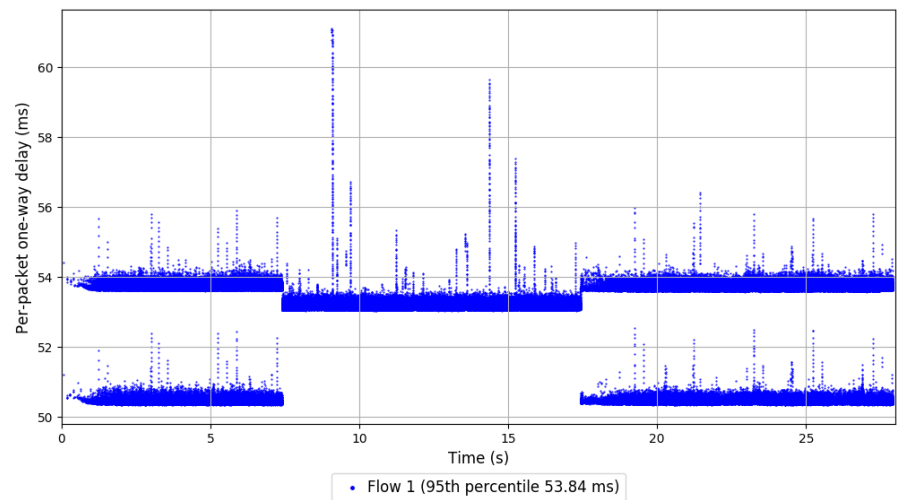
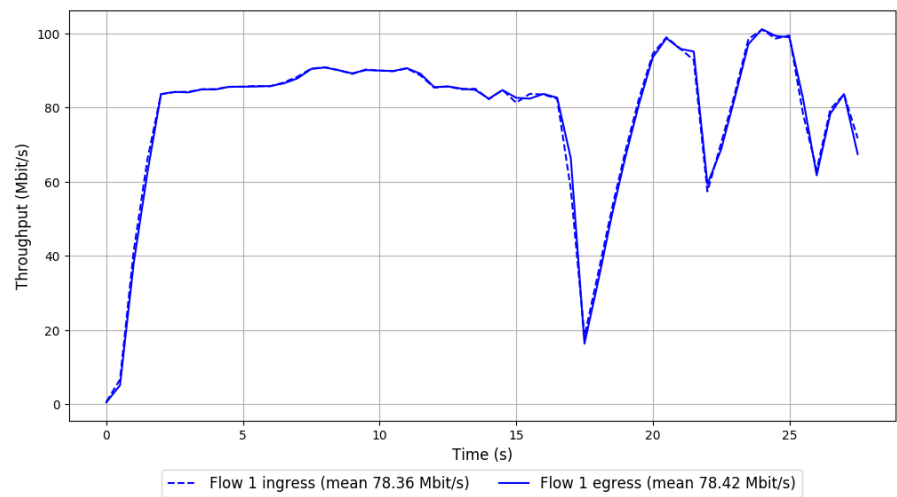
-- Flow 1:

Average throughput: 78.42 Mbit/s

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

Loss rate: 0.29%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 03:12:15

End at: 2017-11-21 03:12:45

Below is generated by plot.py at 2017-11-21 06:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.64 Mbit/s

95th percentile per-packet one-way delay: 53.281 ms

Loss rate: 0.20%

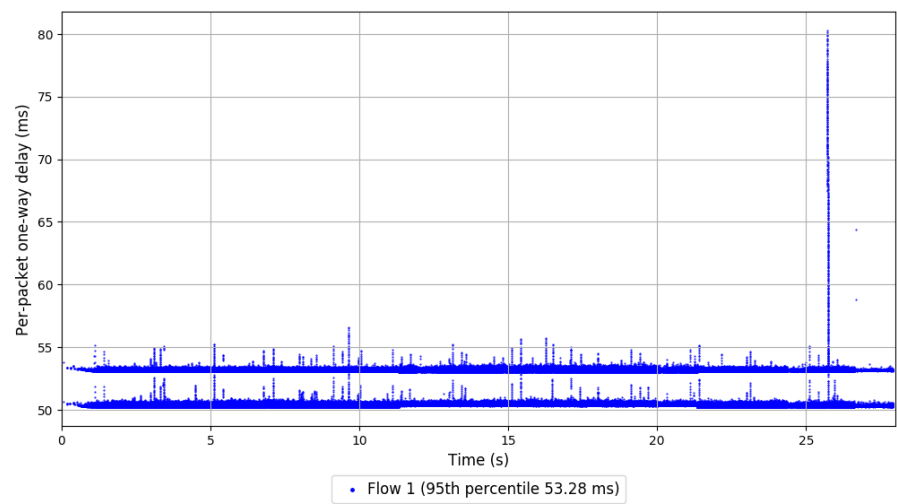
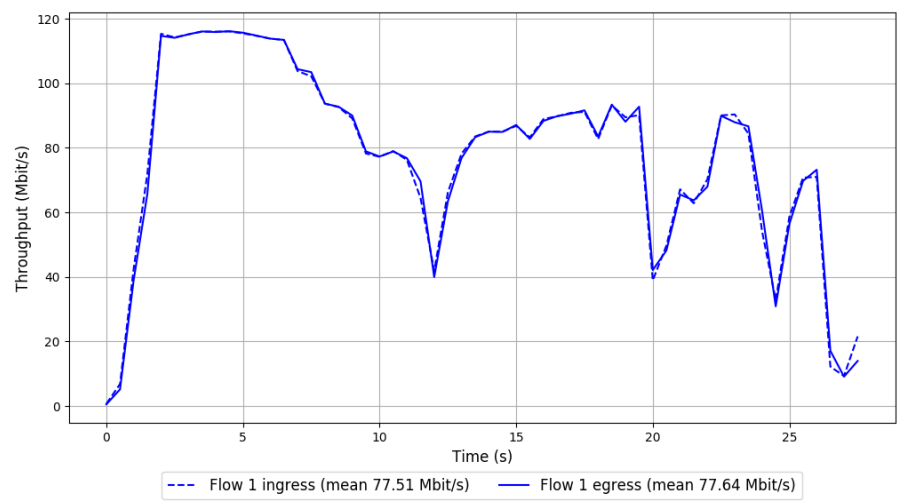
-- Flow 1:

Average throughput: 77.64 Mbit/s

95th percentile per-packet one-way delay: 53.281 ms

Loss rate: 0.20%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 03:22:40

End at: 2017-11-21 03:23:10

Below is generated by plot.py at 2017-11-21 06:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.09%

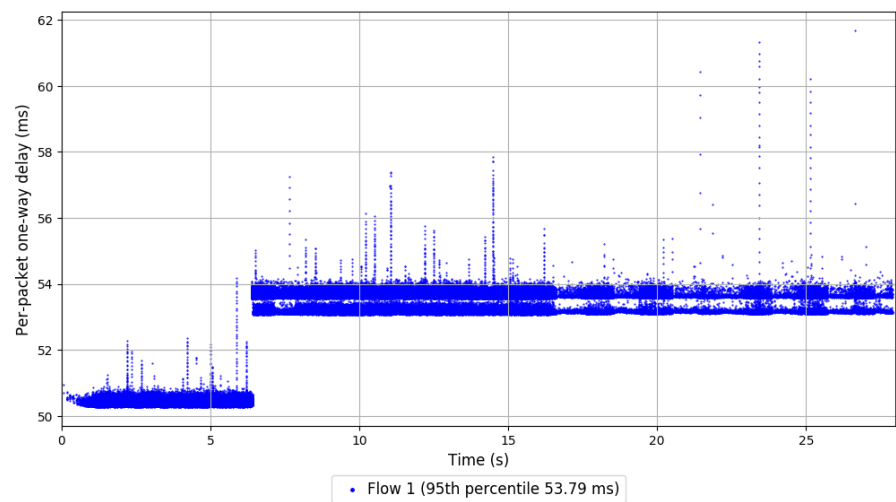
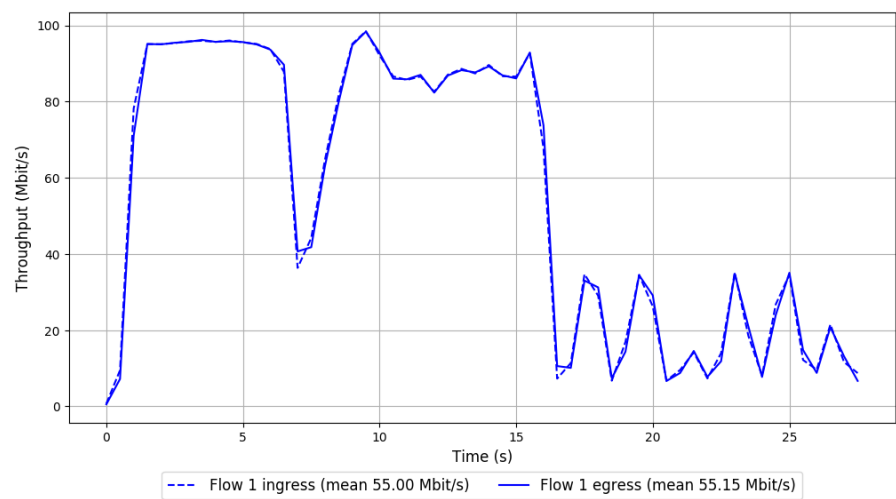
-- Flow 1:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.09%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 03:32:52

End at: 2017-11-21 03:33:22

Below is generated by plot.py at 2017-11-21 06:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 53.291 ms

Loss rate: 0.37%

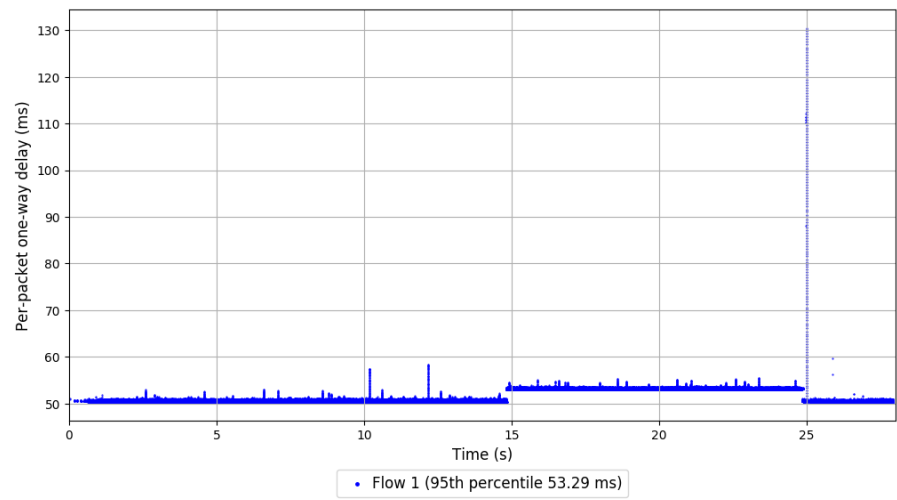
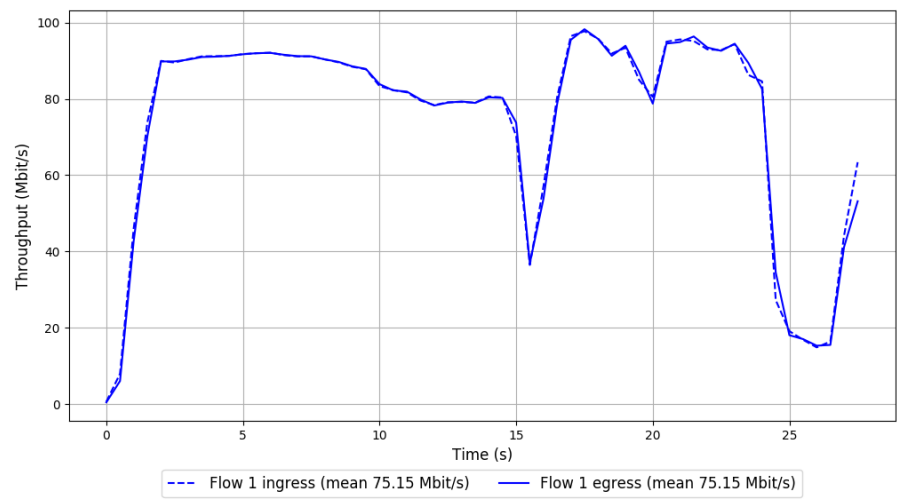
-- Flow 1:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 53.291 ms

Loss rate: 0.37%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 03:43:13

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

Below is generated by plot.py at 2017-11-21 06:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.07%

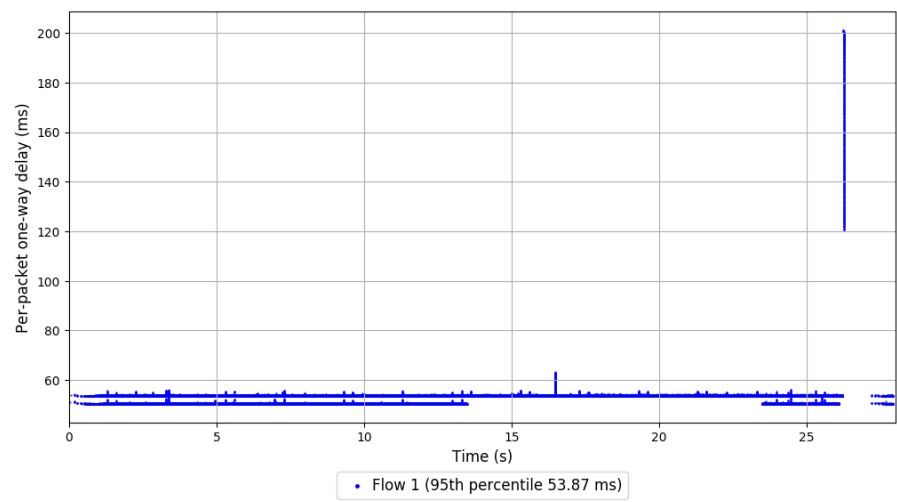
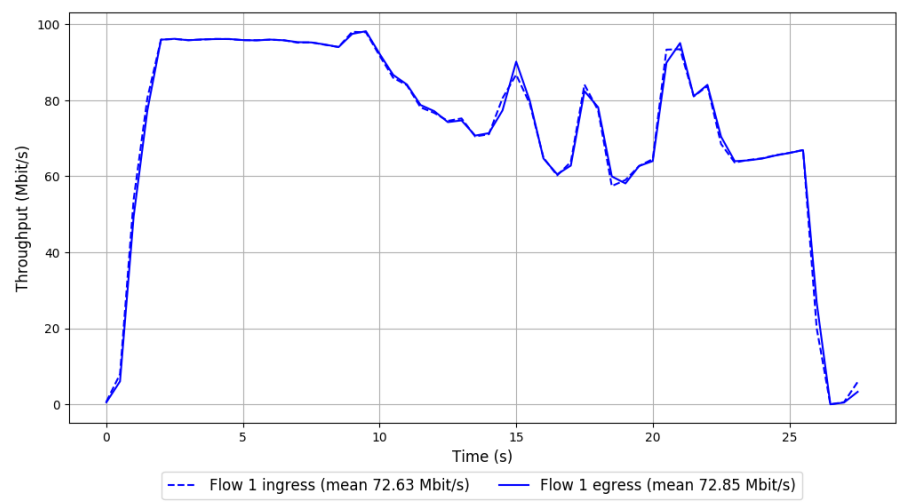
-- Flow 1:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.07%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 03:53:29

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

Below is generated by plot.py at 2017-11-21 06:42:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 0.41%

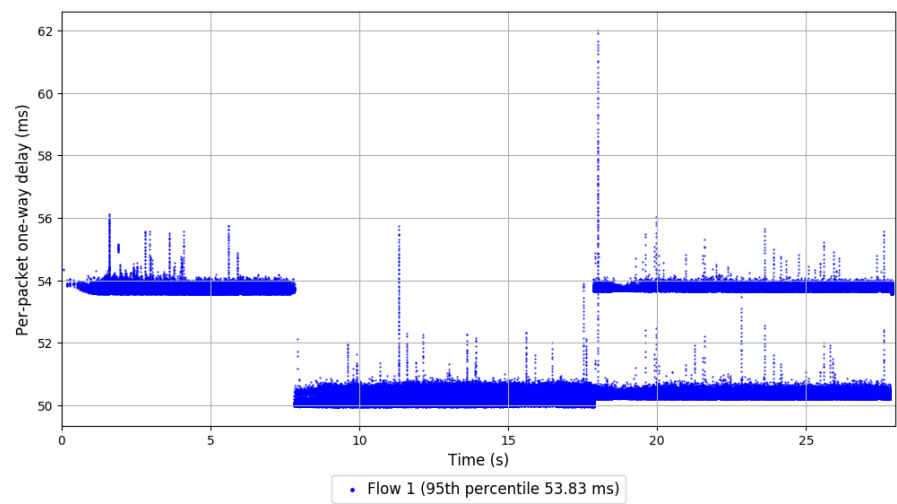
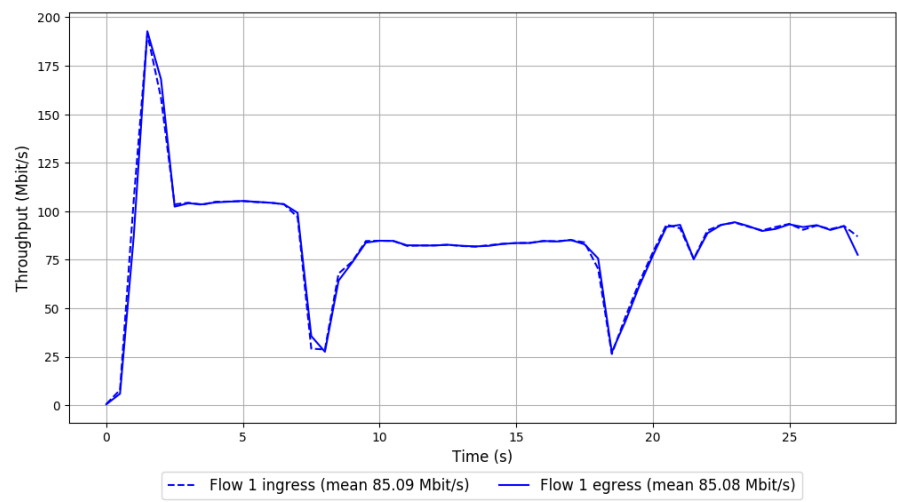
-- Flow 1:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 0.41%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 04:03:45

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

Below is generated by plot.py at 2017-11-21 06:42:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.80 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.04%

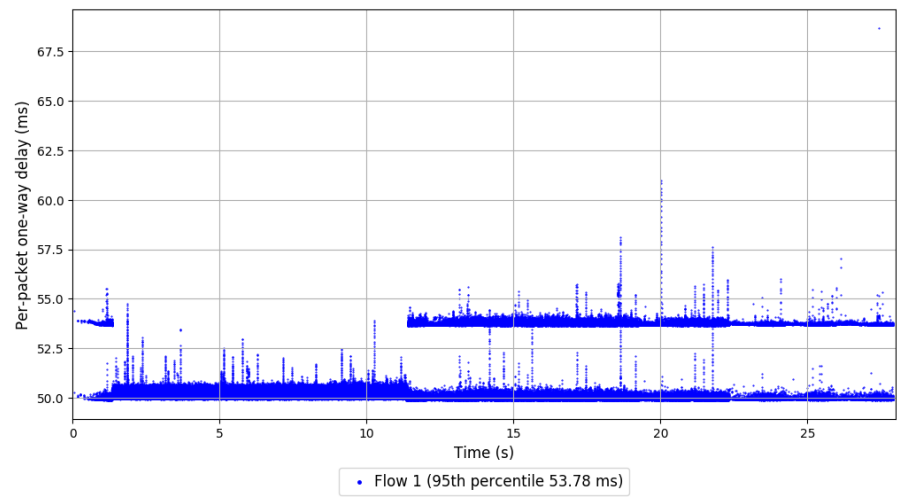
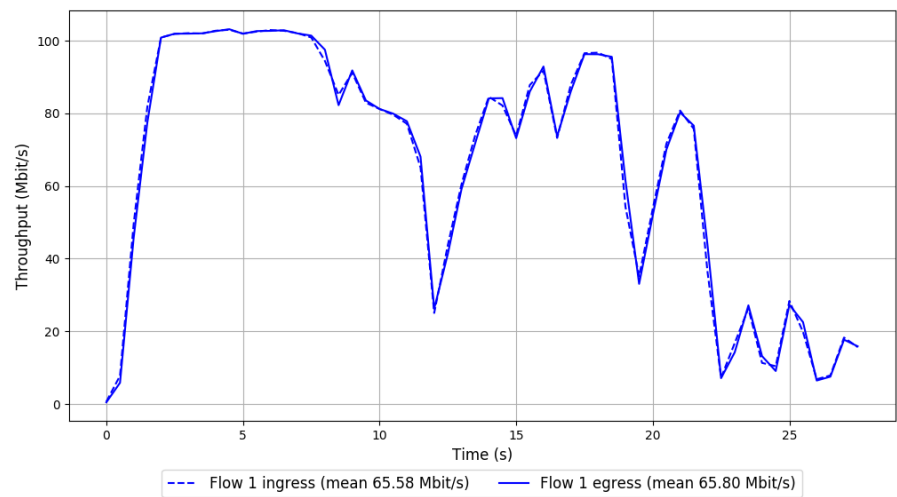
-- Flow 1:

Average throughput: 65.80 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.04%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 04:14:09

End at: 2017-11-21 04:14:39

Below is generated by plot.py at 2017-11-21 06:42:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.04 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.43%

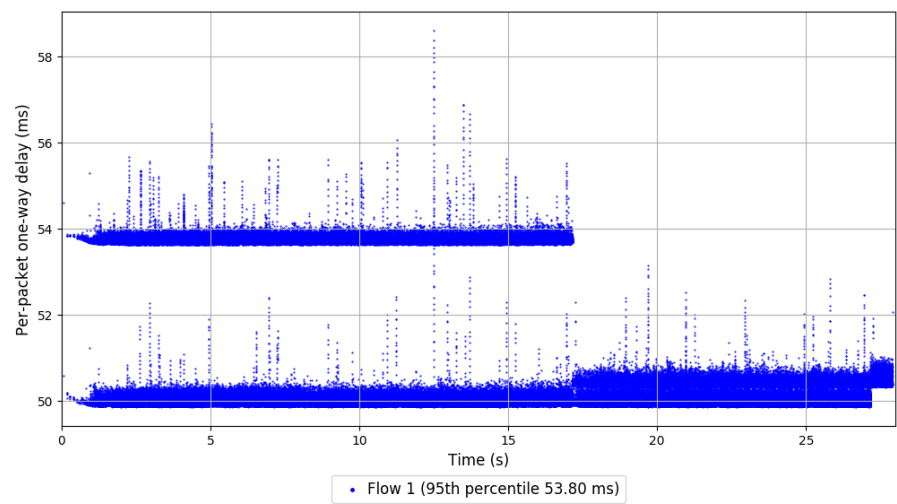
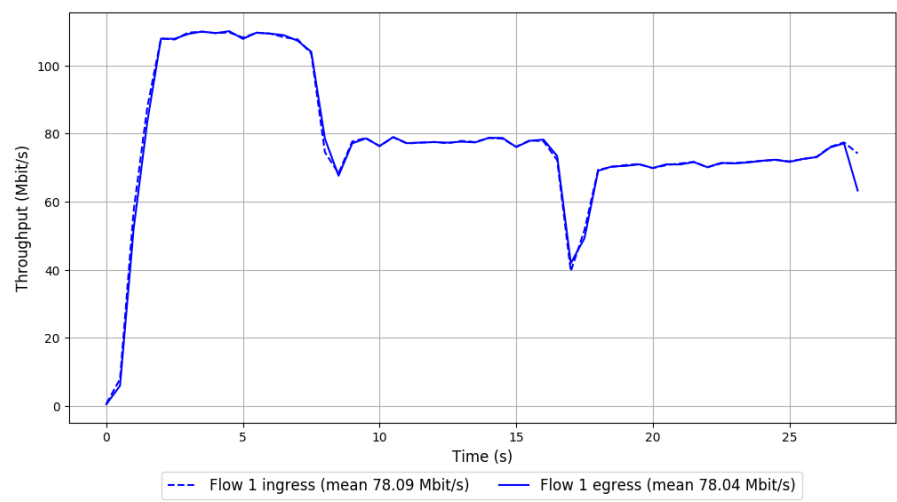
-- Flow 1:

Average throughput: 78.04 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.43%

Run 10: Report of Copa — Data Link

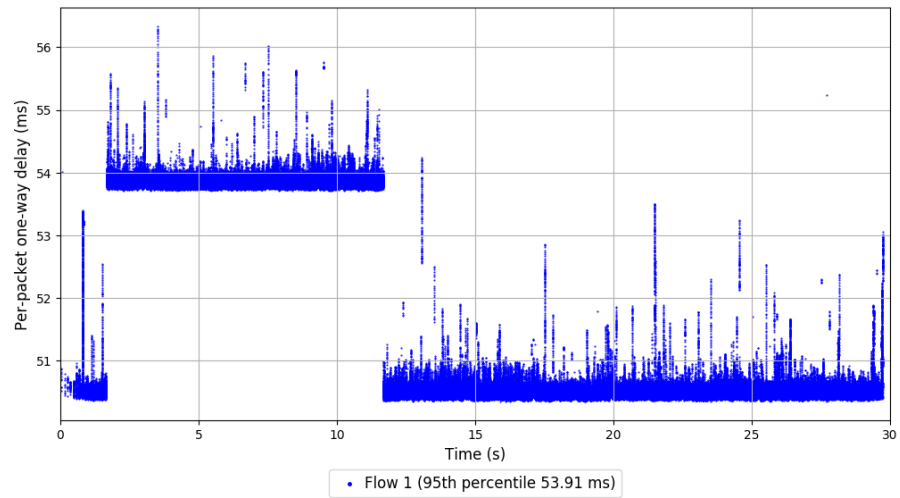
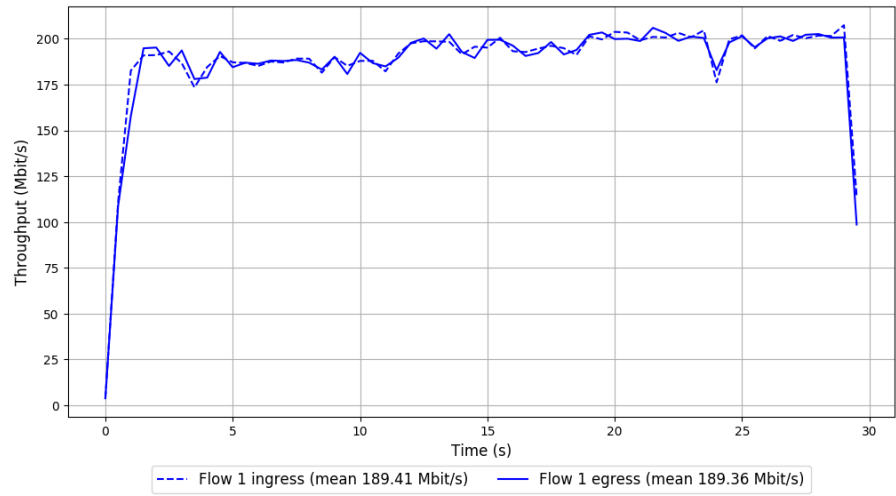


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 02:39:37
End at: 2017-11-21 02:40:07

# Below is generated by plot.py at 2017-11-21 06:44:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.36 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 189.36 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 0.37%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-21 02:49:56

End at: 2017-11-21 02:50:26

Below is generated by plot.py at 2017-11-21 06:44:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.71 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.35%

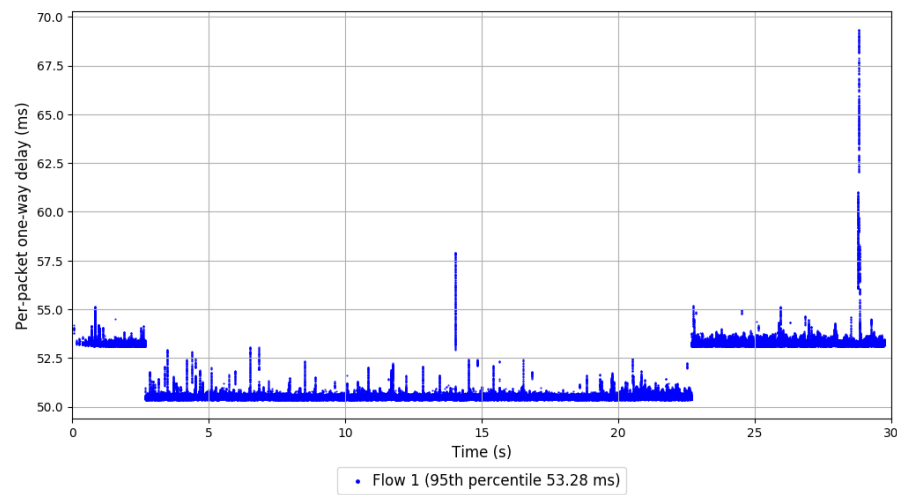
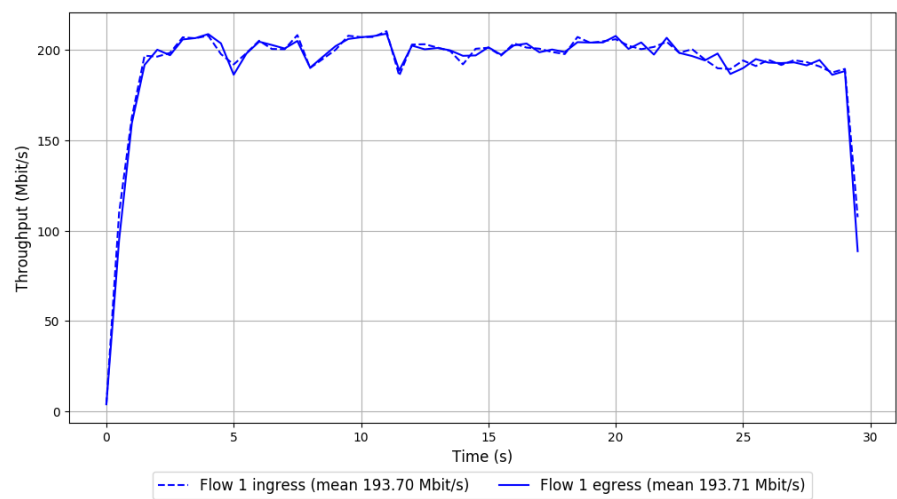
-- Flow 1:

Average throughput: 193.71 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.35%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 03:00:26

End at: 2017-11-21 03:00:56

Below is generated by plot.py at 2017-11-21 06:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.72 Mbit/s

95th percentile per-packet one-way delay: 53.326 ms

Loss rate: 0.38%

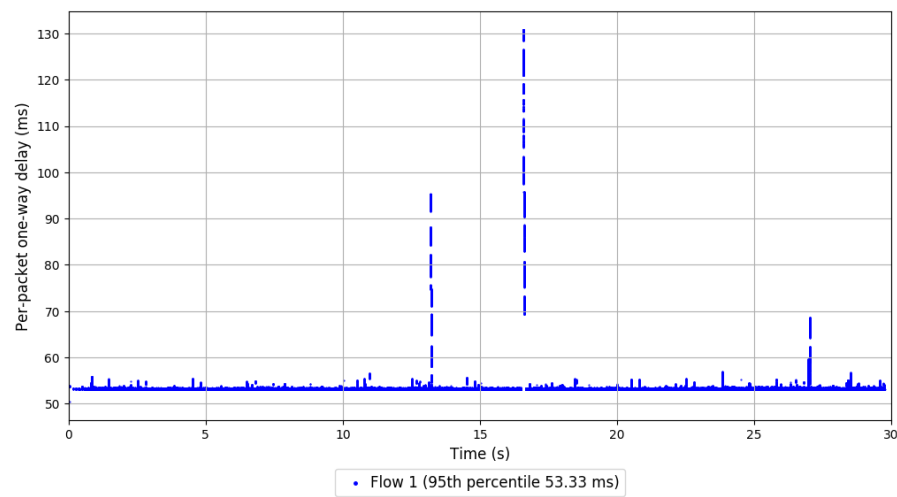
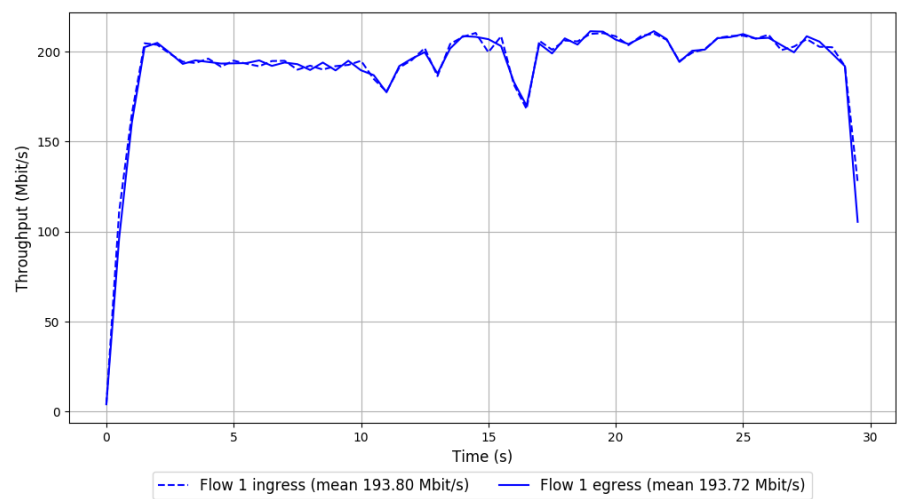
-- Flow 1:

Average throughput: 193.72 Mbit/s

95th percentile per-packet one-way delay: 53.326 ms

Loss rate: 0.38%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 03:10:41

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

Below is generated by plot.py at 2017-11-21 06:45:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.26 Mbit/s

95th percentile per-packet one-way delay: 53.326 ms

Loss rate: 0.37%

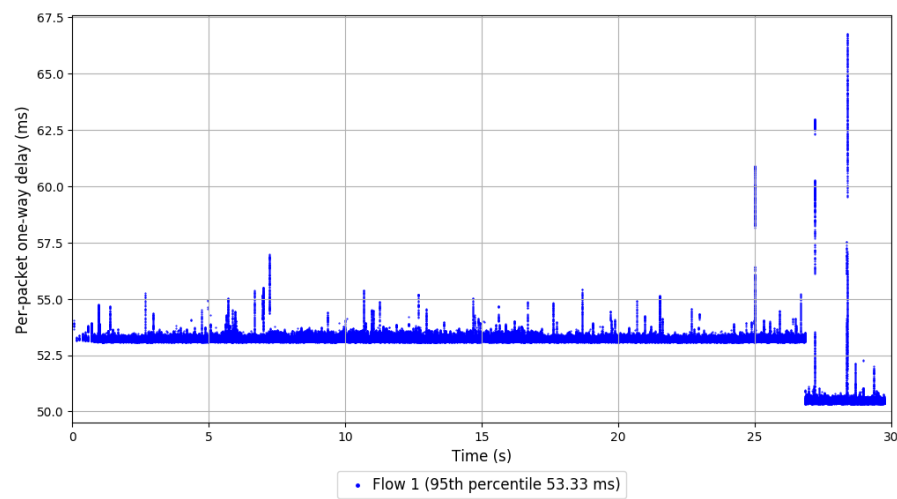
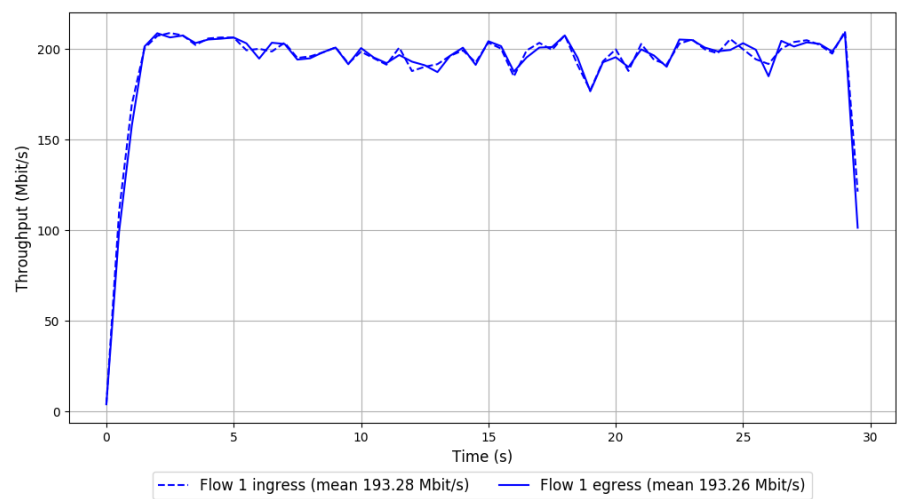
-- Flow 1:

Average throughput: 193.26 Mbit/s

95th percentile per-packet one-way delay: 53.326 ms

Loss rate: 0.37%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

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

Below is generated by plot.py at 2017-11-21 06:45:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.35 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.37%

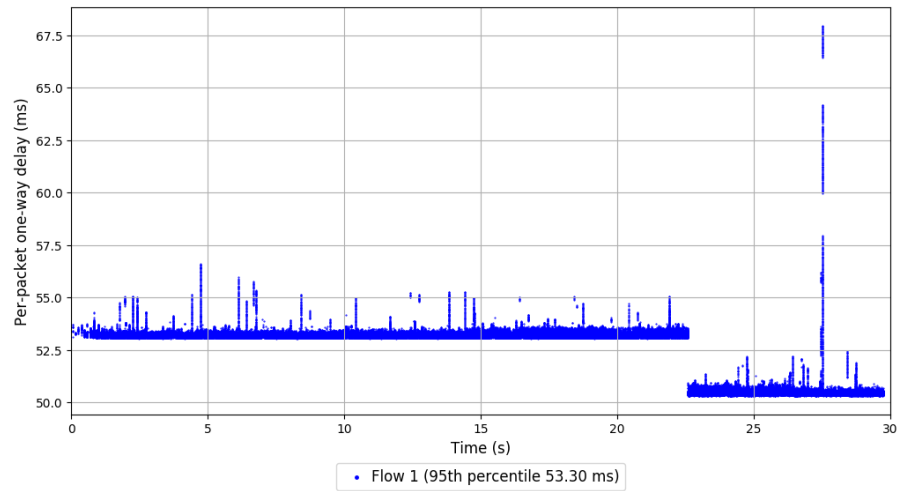
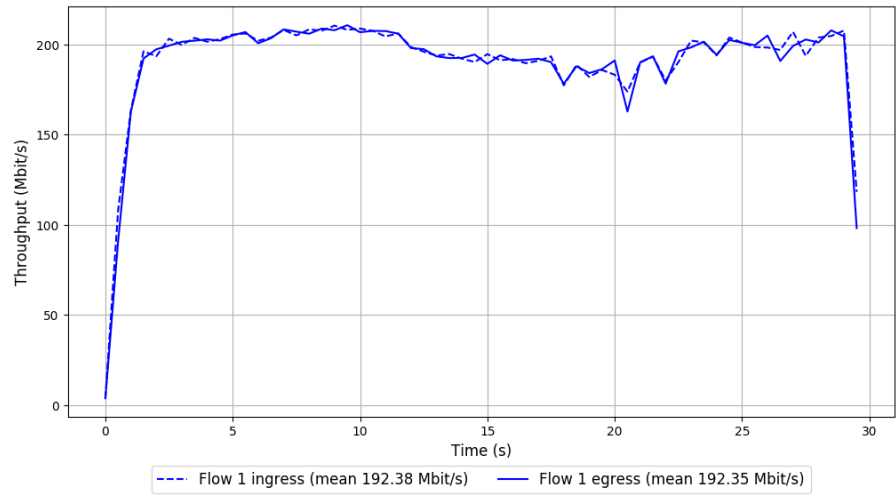
-- Flow 1:

Average throughput: 192.35 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.37%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 03:31:20

End at: 2017-11-21 03:31:50

Below is generated by plot.py at 2017-11-21 06:45:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.37 Mbit/s

95th percentile per-packet one-way delay: 53.231 ms

Loss rate: 0.37%

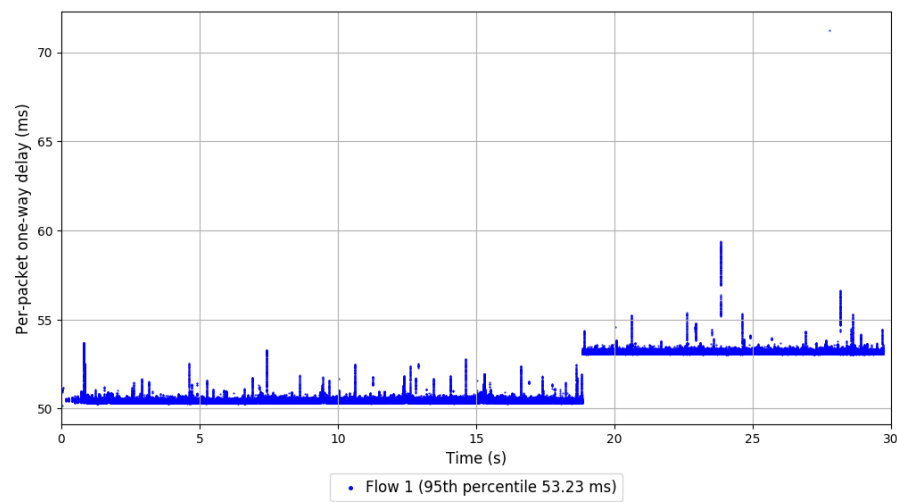
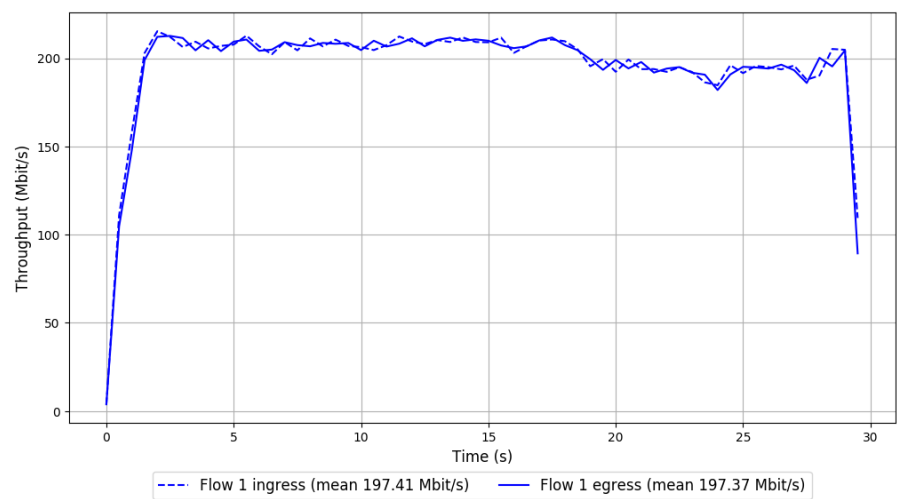
-- Flow 1:

Average throughput: 197.37 Mbit/s

95th percentile per-packet one-way delay: 53.231 ms

Loss rate: 0.37%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

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

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

Below is generated by plot.py at 2017-11-21 06:45:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.42 Mbit/s

95th percentile per-packet one-way delay: 53.212 ms

Loss rate: 0.31%

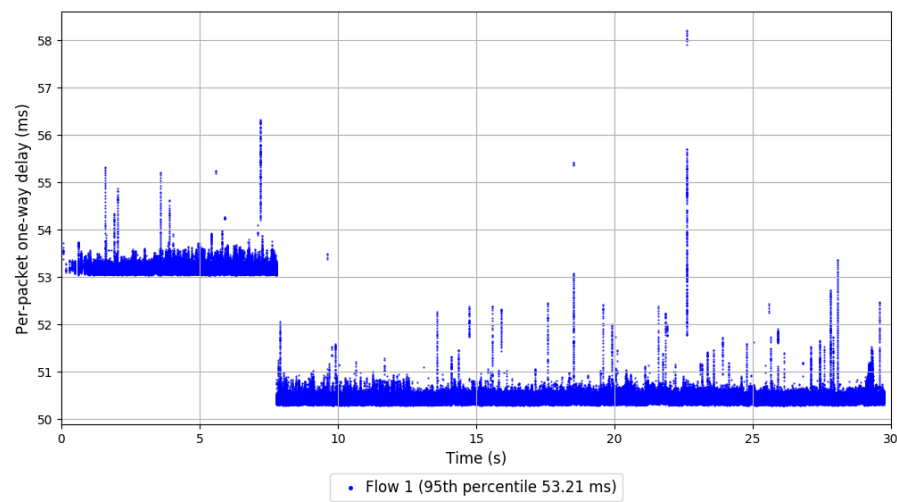
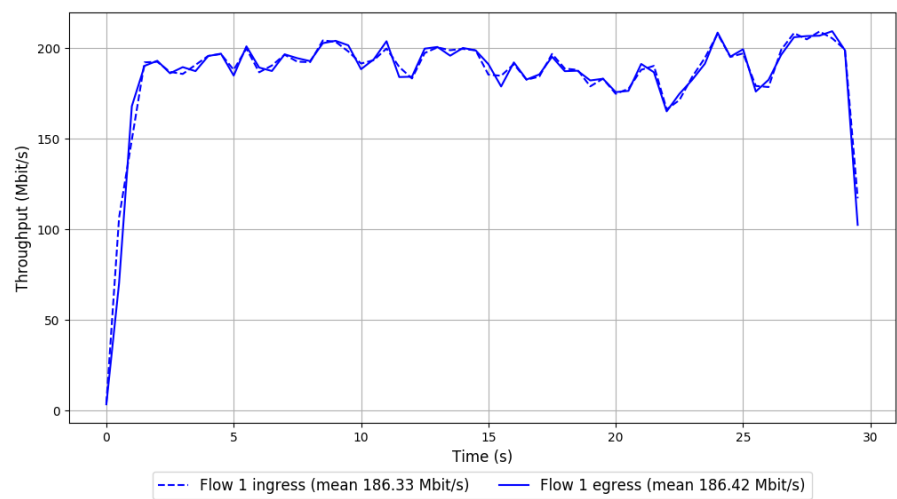
-- Flow 1:

Average throughput: 186.42 Mbit/s

95th percentile per-packet one-way delay: 53.212 ms

Loss rate: 0.31%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 03:51:56

End at: 2017-11-21 03:52:26

Below is generated by plot.py at 2017-11-21 06:46:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.07 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 0.34%

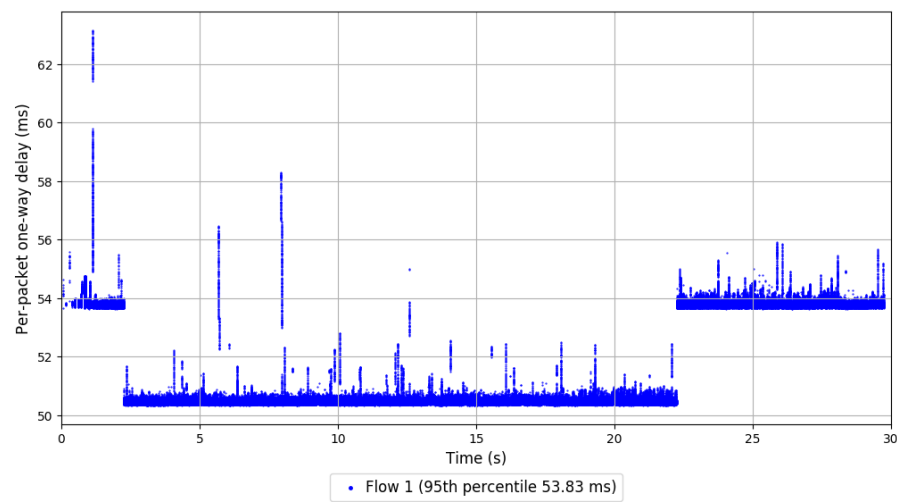
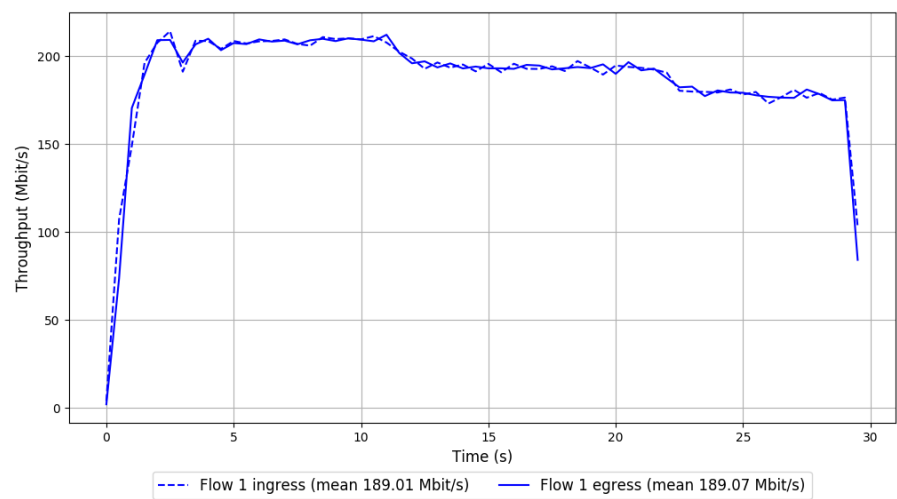
-- Flow 1:

Average throughput: 189.07 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 0.34%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 04:02:15

End at: 2017-11-21 04:02:45

Below is generated by plot.py at 2017-11-21 06:47:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.28 Mbit/s

95th percentile per-packet one-way delay: 53.879 ms

Loss rate: 0.44%

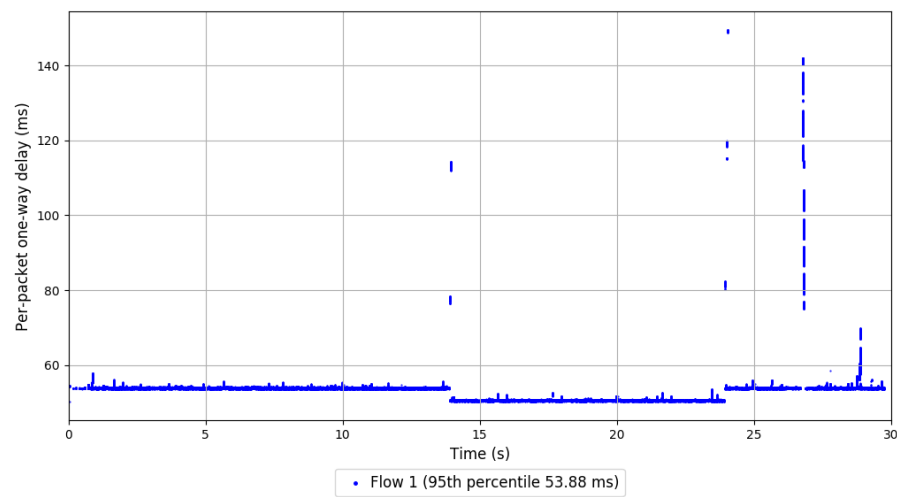
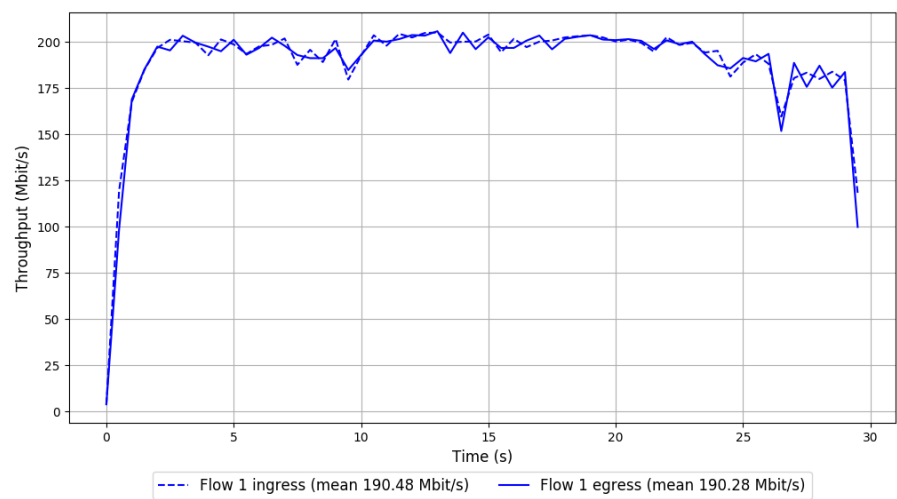
-- Flow 1:

Average throughput: 190.28 Mbit/s

95th percentile per-packet one-way delay: 53.879 ms

Loss rate: 0.44%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 04:12:37

End at: 2017-11-21 04:13:07

Below is generated by plot.py at 2017-11-21 06:47:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.47 Mbit/s

95th percentile per-packet one-way delay: 50.638 ms

Loss rate: 0.37%

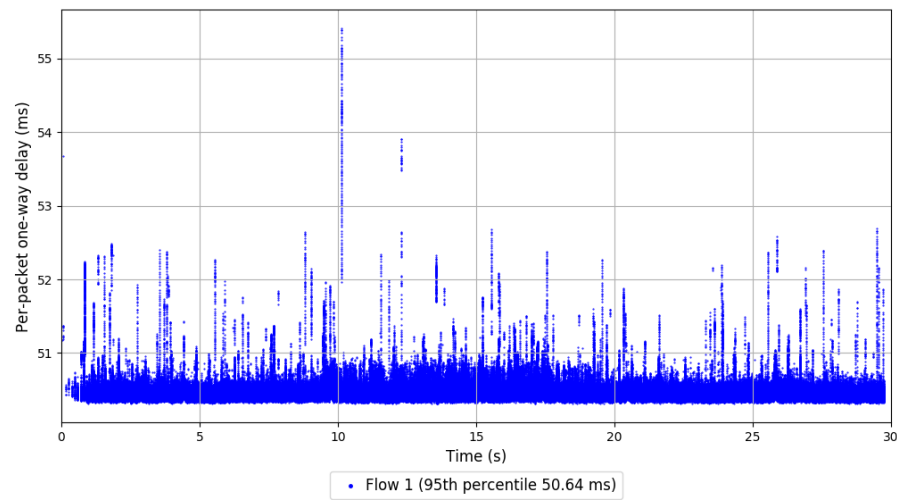
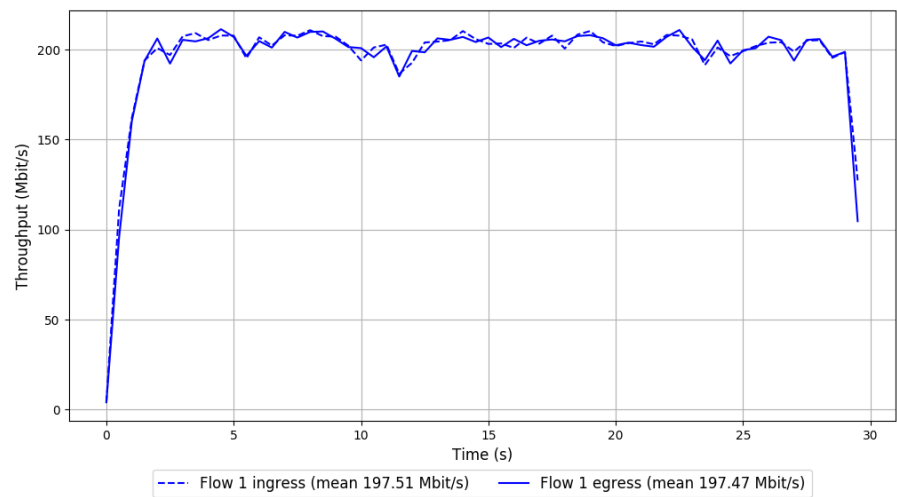
-- Flow 1:

Average throughput: 197.47 Mbit/s

95th percentile per-packet one-way delay: 50.638 ms

Loss rate: 0.37%

Run 10: Report of Indigo — Data Link

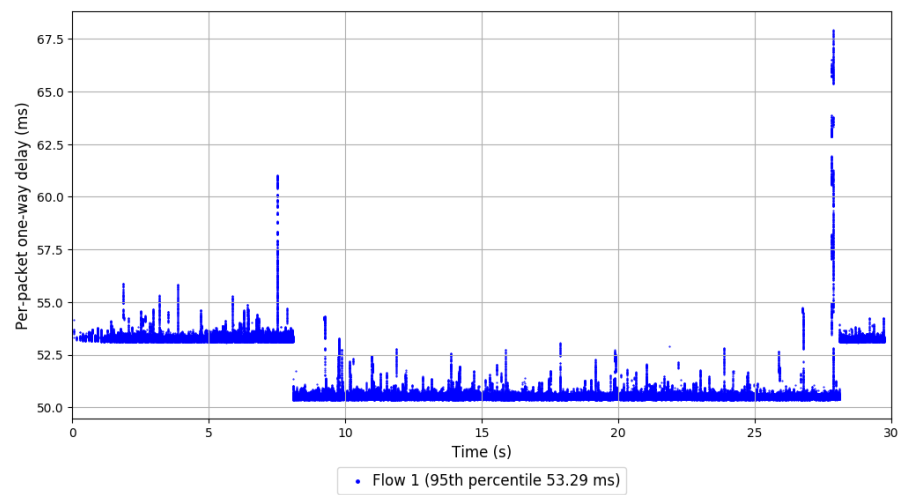
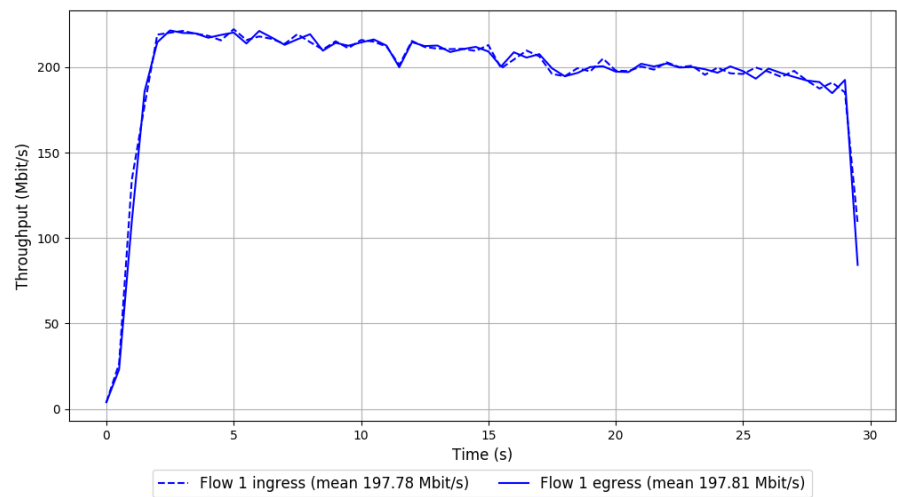


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 02:46:40
End at: 2017-11-21 02:47:10

# Below is generated by plot.py at 2017-11-21 06:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.81 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 197.81 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 0.34%
```

Run 1: Report of Indigo-calib — Data Link

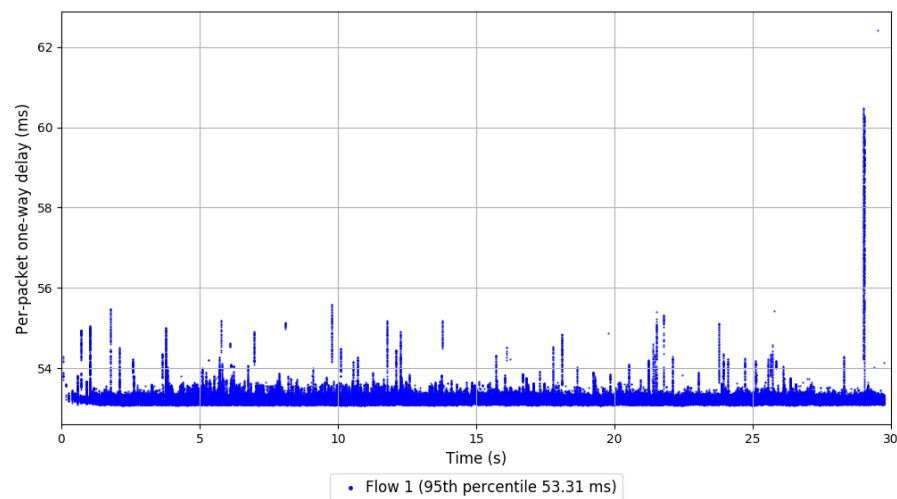
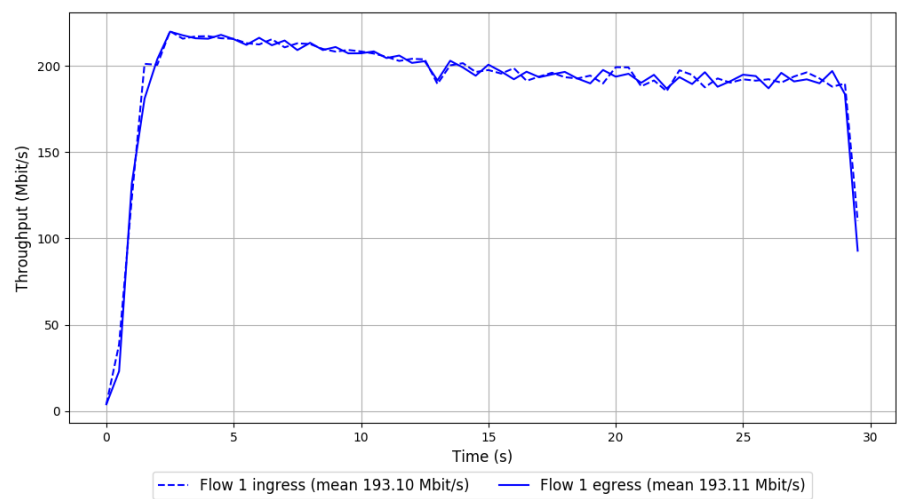


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 02:57:12
End at: 2017-11-21 02:57:42

# Below is generated by plot.py at 2017-11-21 06:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.11 Mbit/s
95th percentile per-packet one-way delay: 53.312 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 193.11 Mbit/s
95th percentile per-packet one-way delay: 53.312 ms
Loss rate: 0.35%
```

Run 2: Report of Indigo-calib — Data Link

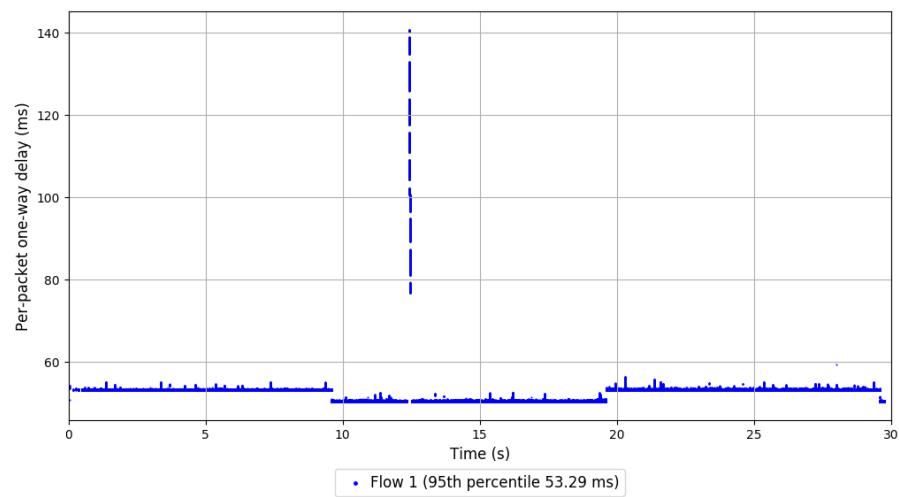
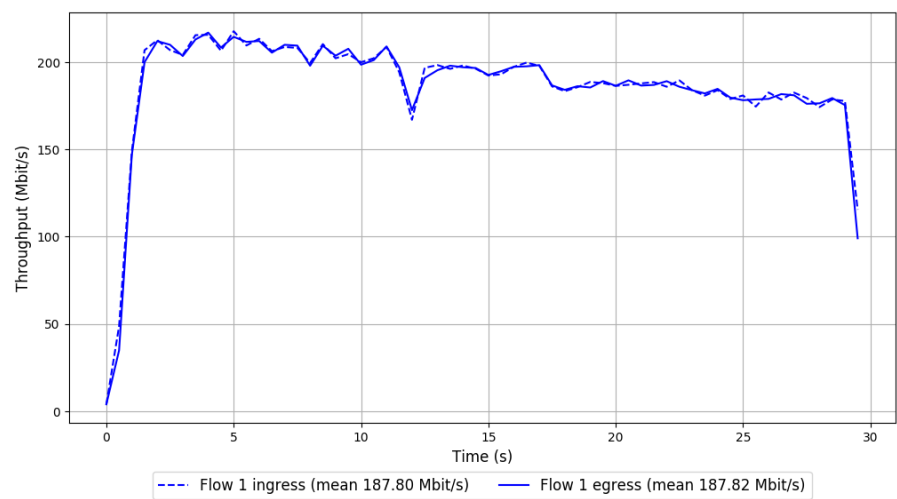


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 03:07:29
End at: 2017-11-21 03:07:59

# Below is generated by plot.py at 2017-11-21 06:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.82 Mbit/s
95th percentile per-packet one-way delay: 53.288 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 187.82 Mbit/s
95th percentile per-packet one-way delay: 53.288 ms
Loss rate: 0.34%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 03:17:53

End at: 2017-11-21 03:18:23

Below is generated by plot.py at 2017-11-21 06:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.76 Mbit/s

95th percentile per-packet one-way delay: 53.315 ms

Loss rate: 0.34%

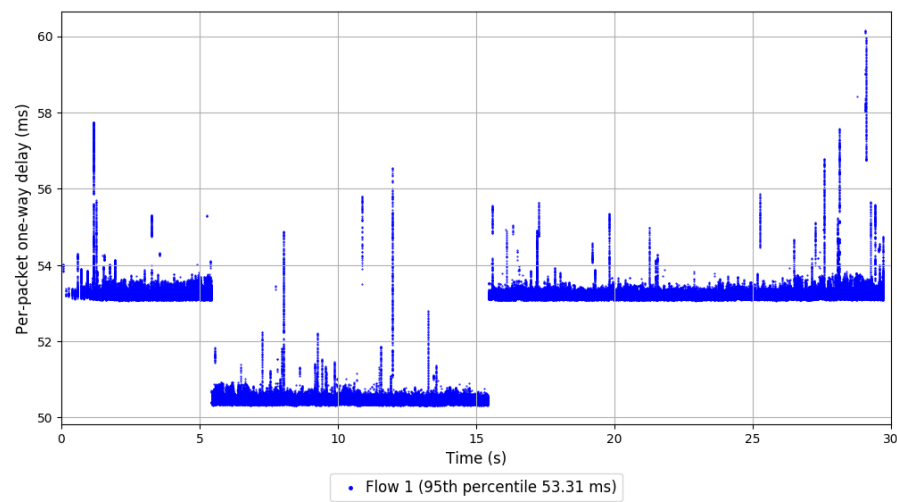
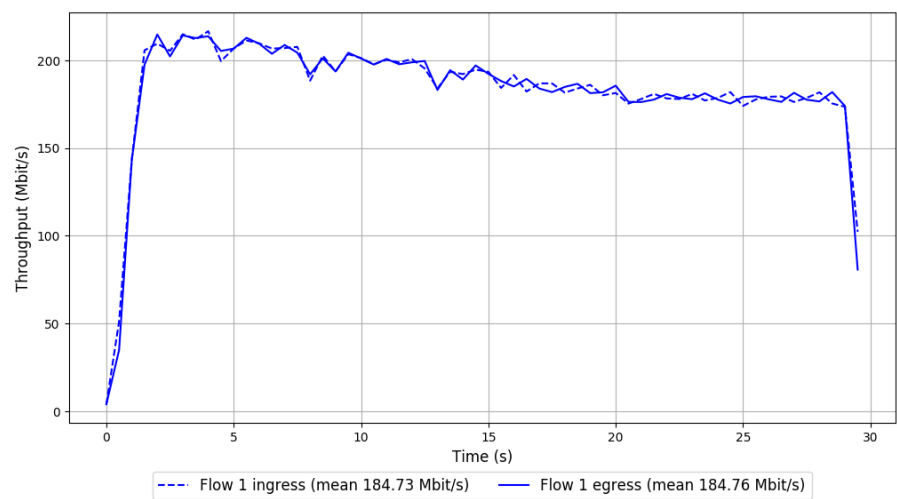
-- Flow 1:

Average throughput: 184.76 Mbit/s

95th percentile per-packet one-way delay: 53.315 ms

Loss rate: 0.34%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 03:28:07

End at: 2017-11-21 03:28:37

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.86 Mbit/s

95th percentile per-packet one-way delay: 53.226 ms

Loss rate: 0.22%

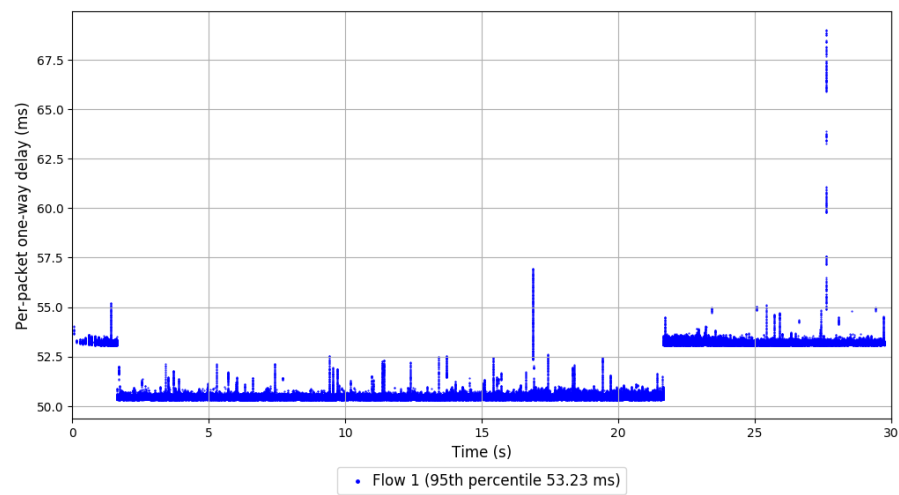
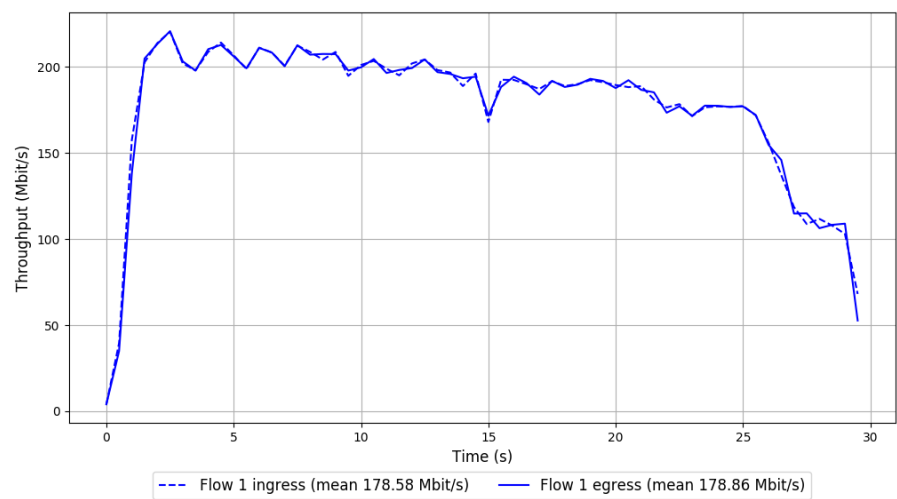
-- Flow 1:

Average throughput: 178.86 Mbit/s

95th percentile per-packet one-way delay: 53.226 ms

Loss rate: 0.22%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 03:38:27

End at: 2017-11-21 03:38:57

Below is generated by plot.py at 2017-11-21 06:49:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.62 Mbit/s

95th percentile per-packet one-way delay: 53.266 ms

Loss rate: 0.35%

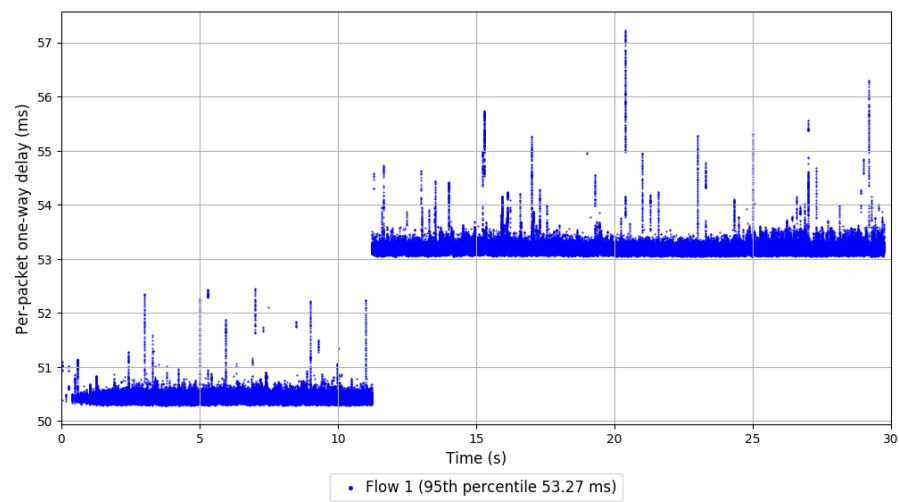
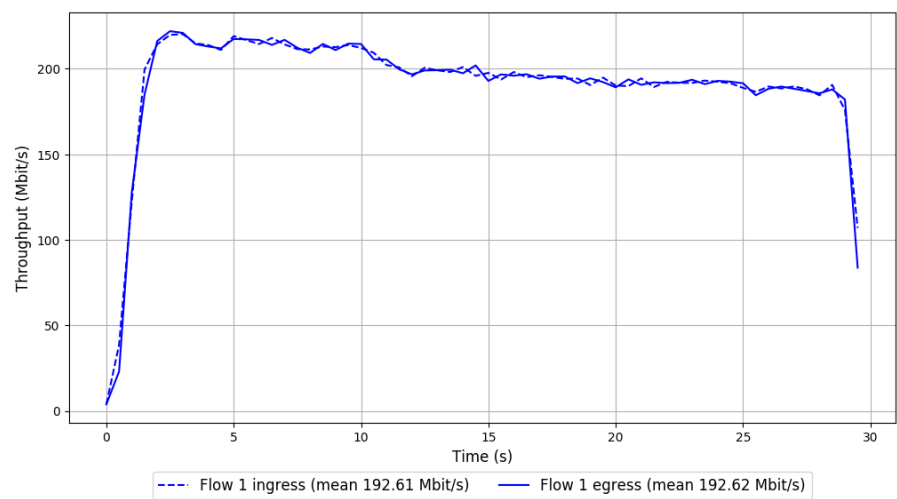
-- Flow 1:

Average throughput: 192.62 Mbit/s

95th percentile per-packet one-way delay: 53.266 ms

Loss rate: 0.35%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 03:48:42

End at: 2017-11-21 03:49:12

Below is generated by plot.py at 2017-11-21 06:49:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.12 Mbit/s

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

Loss rate: 0.32%

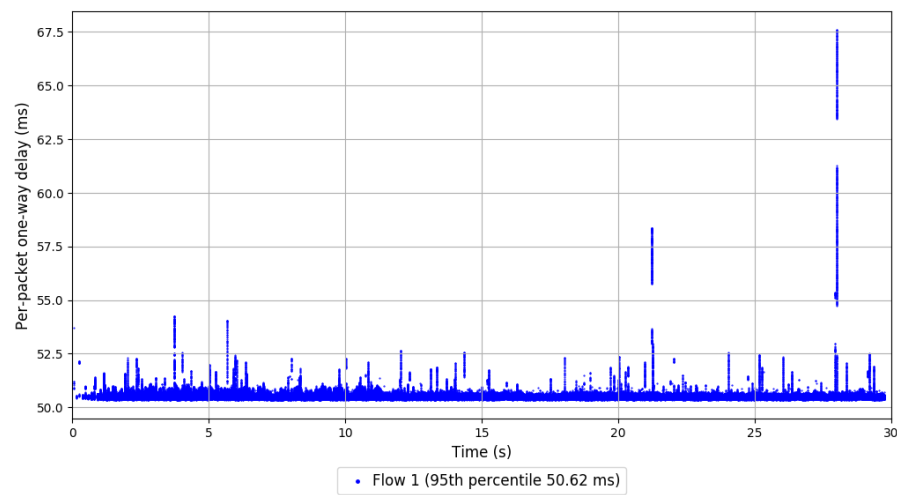
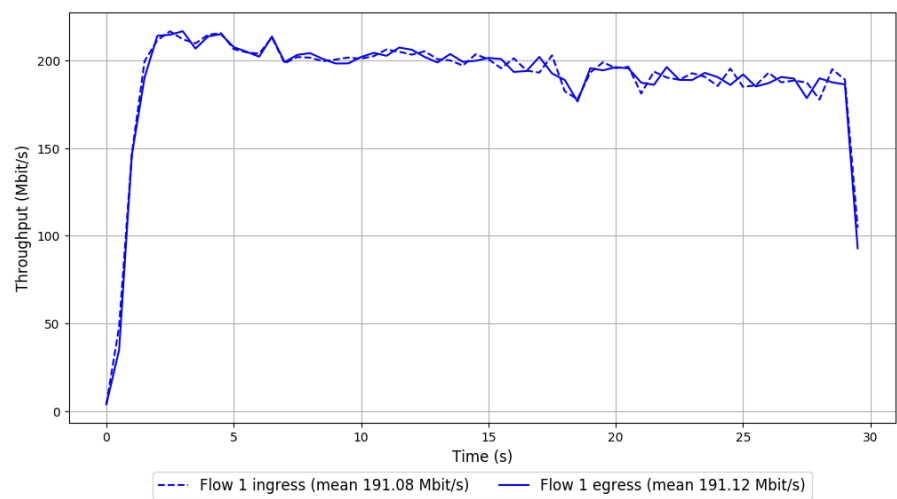
-- Flow 1:

Average throughput: 191.12 Mbit/s

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

Loss rate: 0.32%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 03:58:59

End at: 2017-11-21 03:59:29

Below is generated by plot.py at 2017-11-21 06:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.20 Mbit/s

95th percentile per-packet one-way delay: 53.848 ms

Loss rate: 0.34%

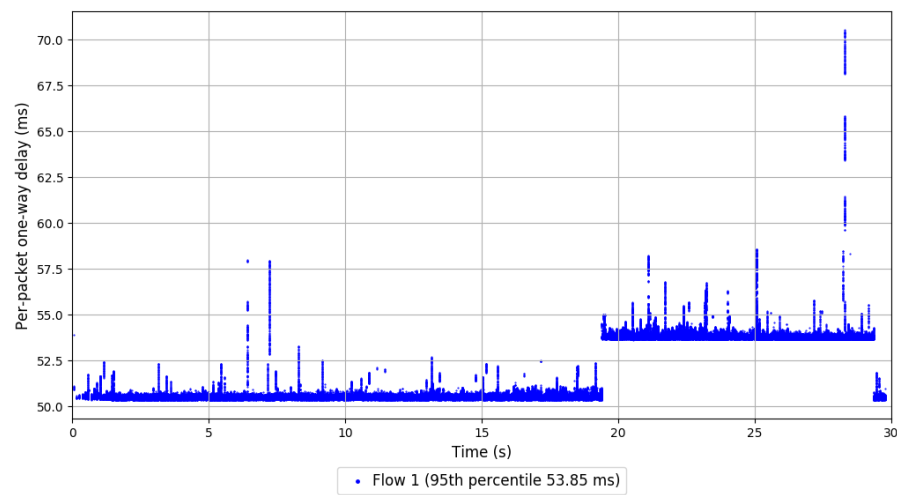
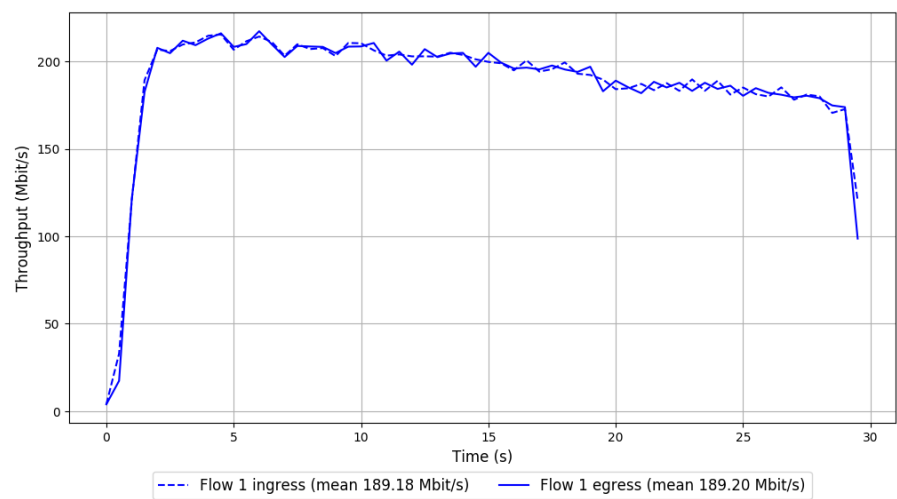
-- Flow 1:

Average throughput: 189.20 Mbit/s

95th percentile per-packet one-way delay: 53.848 ms

Loss rate: 0.34%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 04:09:22

End at: 2017-11-21 04:09:52

Below is generated by plot.py at 2017-11-21 06:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.85 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.34%

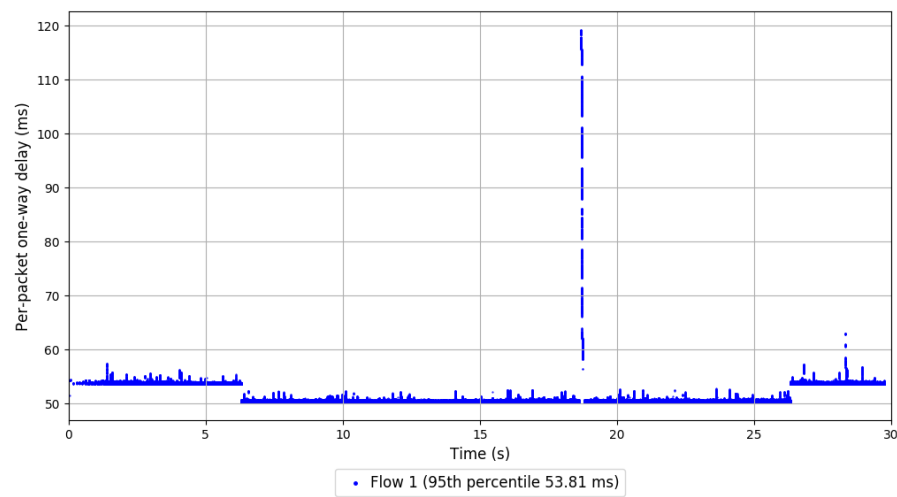
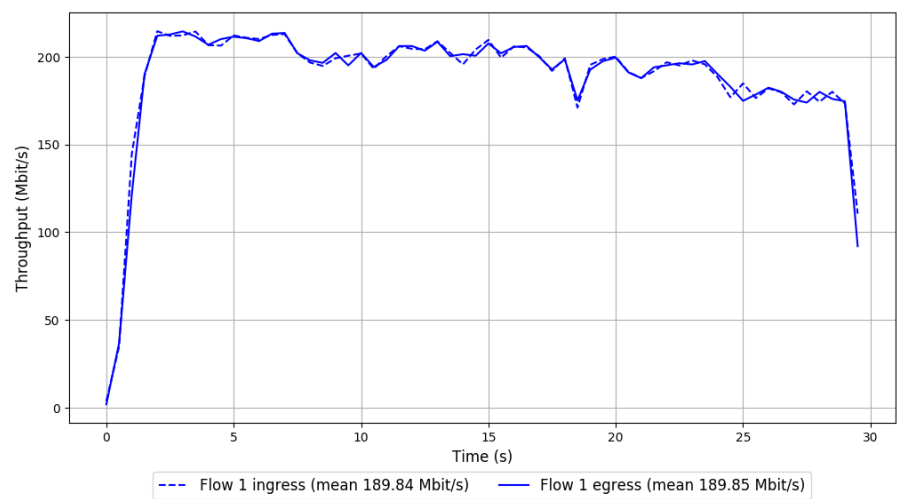
-- Flow 1:

Average throughput: 189.85 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.34%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 04:19:40

End at: 2017-11-21 04:20:10

Below is generated by plot.py at 2017-11-21 06:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.13 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 191.13 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.39%

Run 10: Report of Indigo-calib — Data Link

