

Pantheon Report

Generated at 2017-11-16 05:19:35 (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.

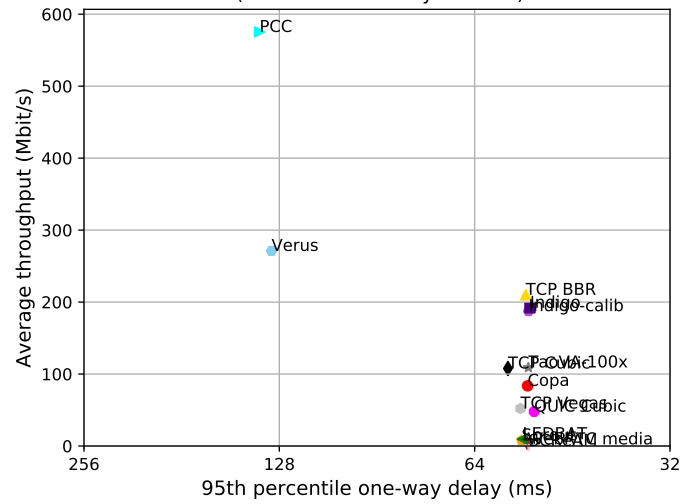
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

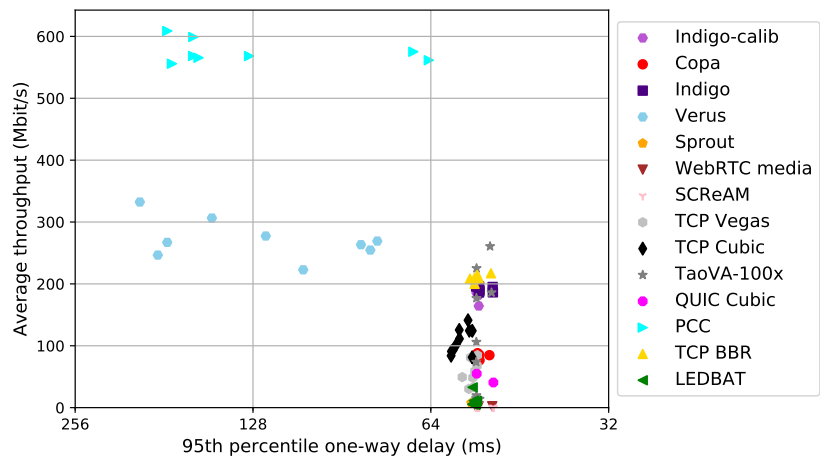
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE 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	210.02	53.40	0.36
TCP Cubic	10	107.72	56.88	0.51
LEDBAT	10	9.58	54.02	0.87
PCC	8	575.33	137.33	1.81
QUIC Cubic	2	47.78	51.83	0.75
SCReAM	10	0.20	52.84	0.39
WebRTC media	10	2.29	53.12	0.41
Sprout	10	7.77	54.20	0.56
TaoVA-100x	10	109.16	52.89	0.32
TCP Vegas	9	52.06	54.40	0.30
Verus	9	271.11	131.60	1.13
Copa	10	83.57	53.06	0.33
Indigo	10	192.03	52.60	0.36
Indigo-calib	10	187.43	52.87	0.35

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 01:18:22

End at: 2017-11-16 01:18:52

Below is generated by plot.py at 2017-11-16 04:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.49 Mbit/s

95th percentile per-packet one-way delay: 53.102 ms

Loss rate: 0.39%

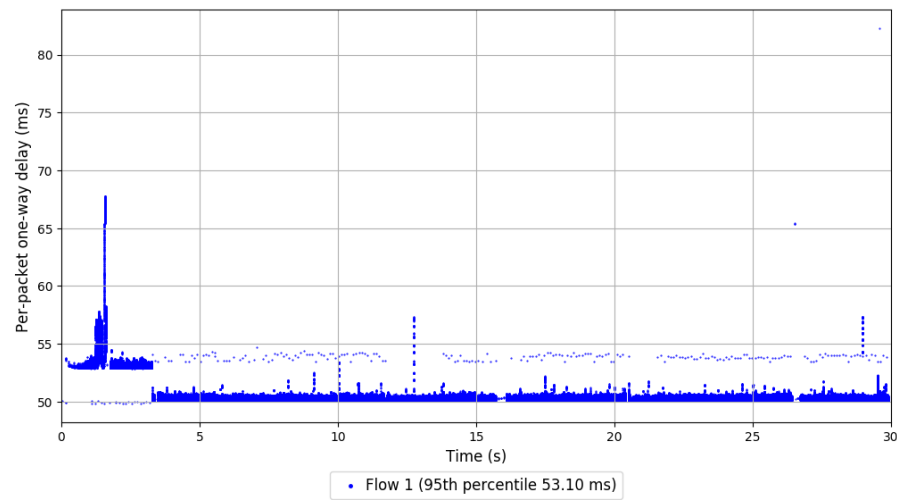
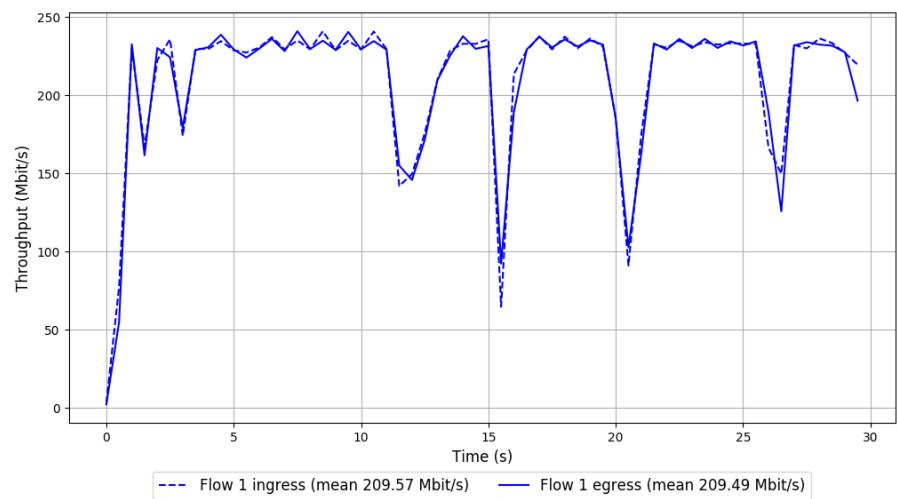
-- Flow 1:

Average throughput: 209.49 Mbit/s

95th percentile per-packet one-way delay: 53.102 ms

Loss rate: 0.39%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-16 01:28:36

End at: 2017-11-16 01:29:06

Below is generated by plot.py at 2017-11-16 04:42:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.42 Mbit/s

95th percentile per-packet one-way delay: 53.335 ms

Loss rate: 0.21%

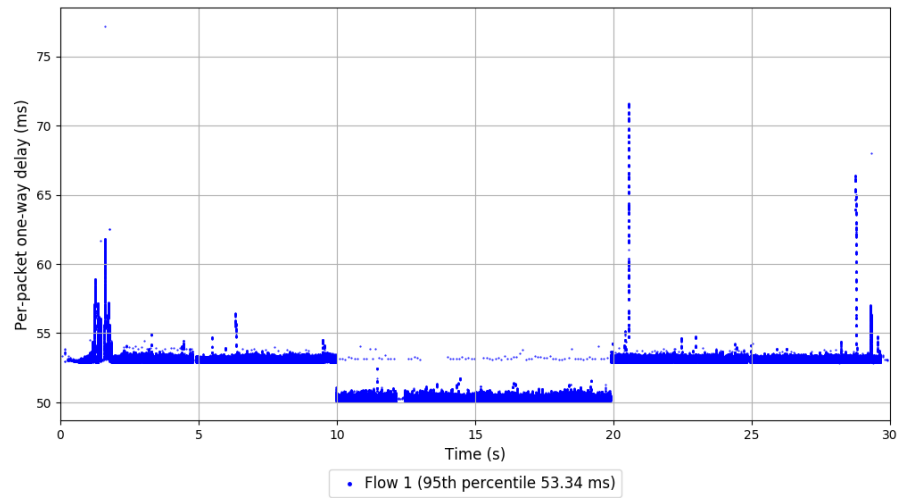
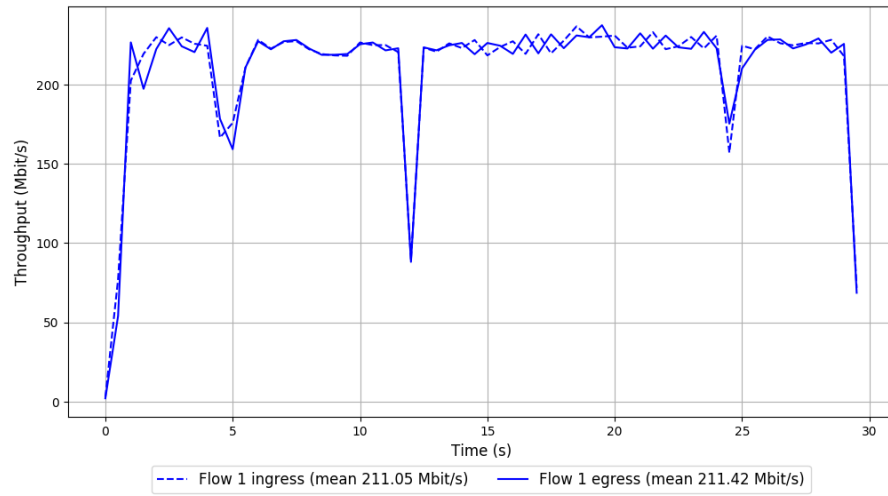
-- Flow 1:

Average throughput: 211.42 Mbit/s

95th percentile per-packet one-way delay: 53.335 ms

Loss rate: 0.21%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-16 01:39:10

End at: 2017-11-16 01:39:40

Below is generated by plot.py at 2017-11-16 04:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.38 Mbit/s

95th percentile per-packet one-way delay: 53.366 ms

Loss rate: 0.36%

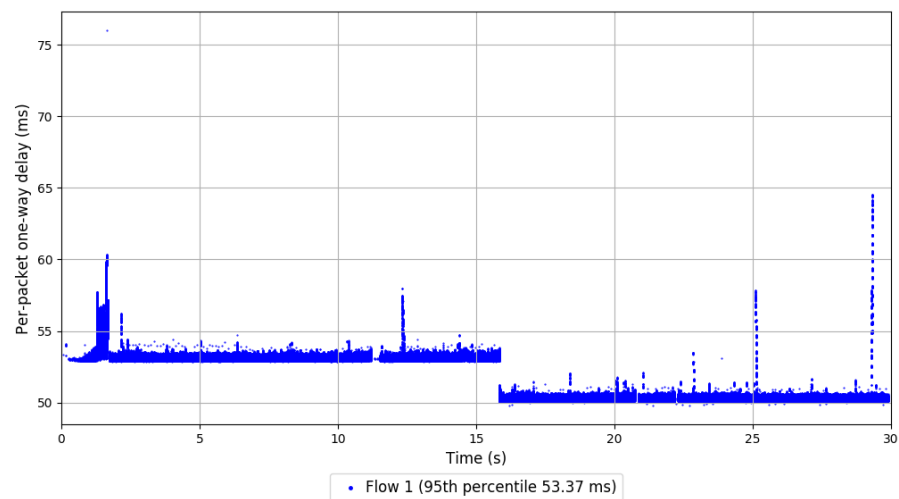
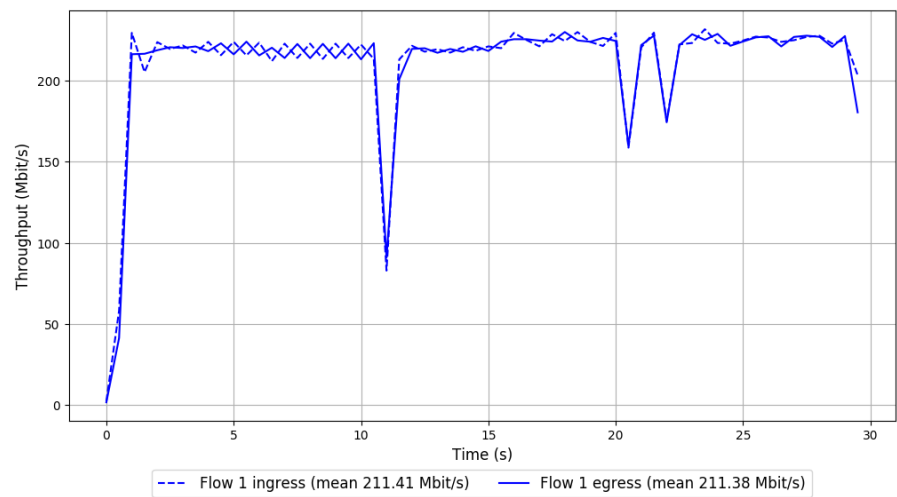
-- Flow 1:

Average throughput: 211.38 Mbit/s

95th percentile per-packet one-way delay: 53.366 ms

Loss rate: 0.36%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 01:49:20

End at: 2017-11-16 01:49:50

Below is generated by plot.py at 2017-11-16 04:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.10 Mbit/s

95th percentile per-packet one-way delay: 53.961 ms

Loss rate: 0.25%

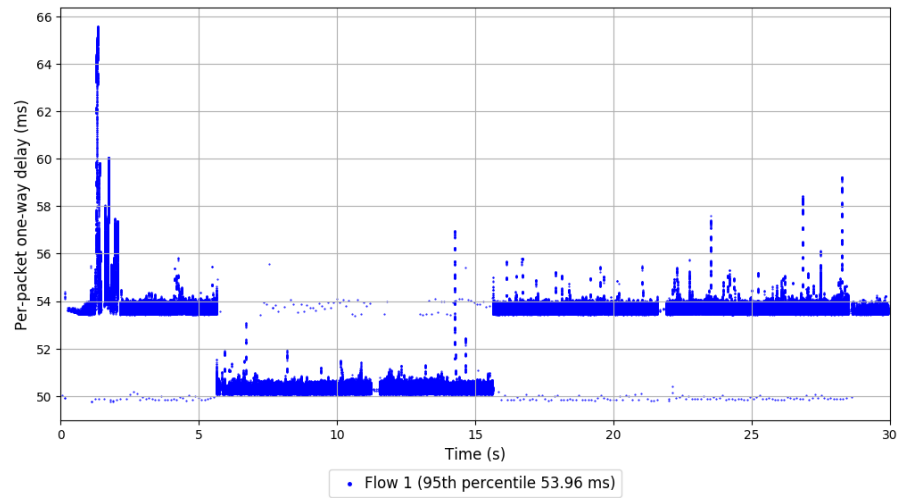
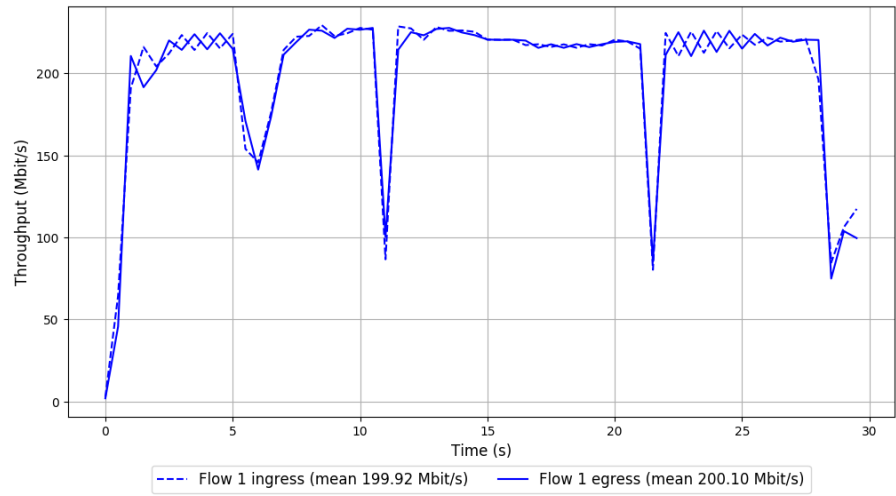
-- Flow 1:

Average throughput: 200.10 Mbit/s

95th percentile per-packet one-way delay: 53.961 ms

Loss rate: 0.25%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-16 01:59:52

End at: 2017-11-16 02:00:22

Below is generated by plot.py at 2017-11-16 04:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.88 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.40%

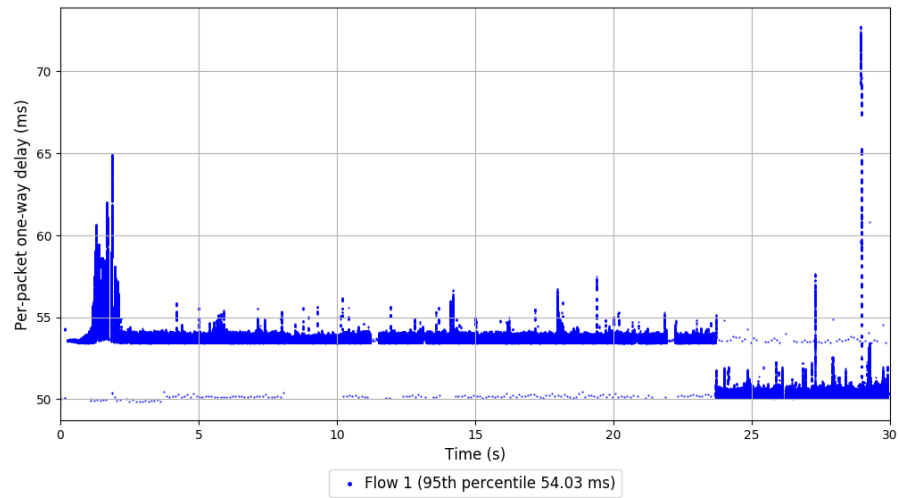
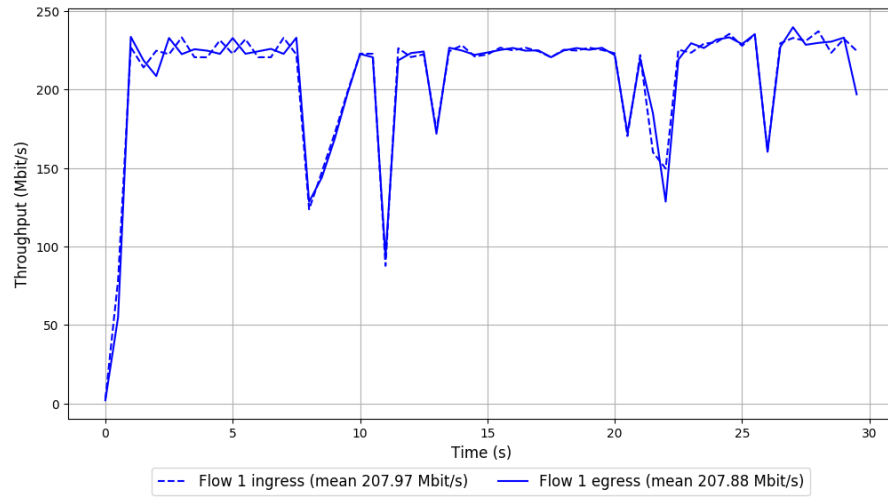
-- Flow 1:

Average throughput: 207.88 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.40%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 02:09:55

End at: 2017-11-16 02:10:26

Below is generated by plot.py at 2017-11-16 04:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.30 Mbit/s

95th percentile per-packet one-way delay: 53.960 ms

Loss rate: 0.37%

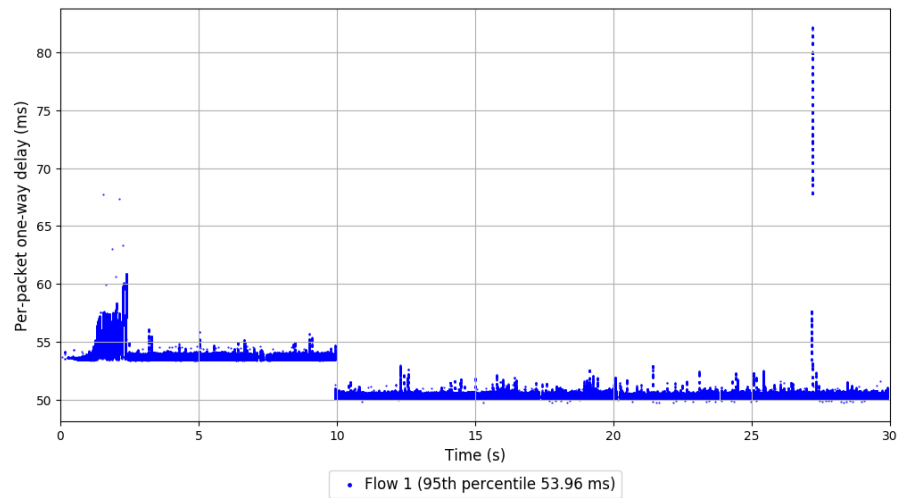
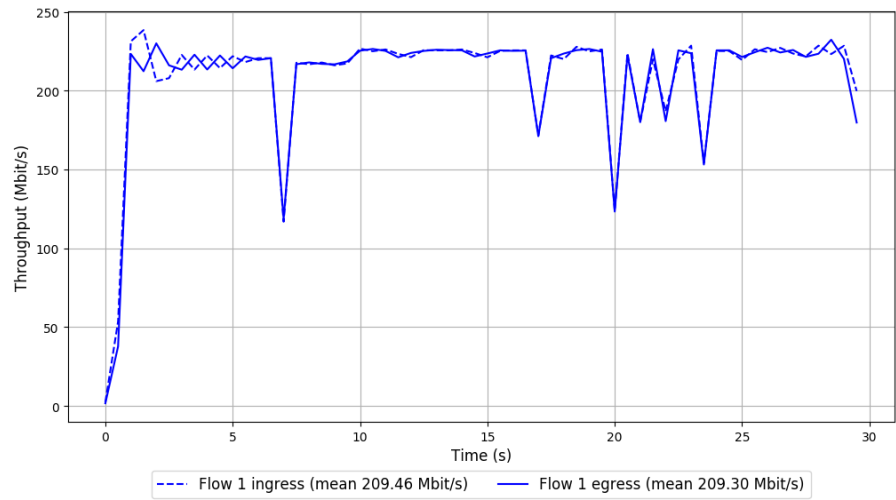
-- Flow 1:

Average throughput: 209.30 Mbit/s

95th percentile per-packet one-way delay: 53.960 ms

Loss rate: 0.37%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-16 02:20:14

End at: 2017-11-16 02:20:44

Below is generated by plot.py at 2017-11-16 04:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.56 Mbit/s

95th percentile per-packet one-way delay: 53.277 ms

Loss rate: 0.51%

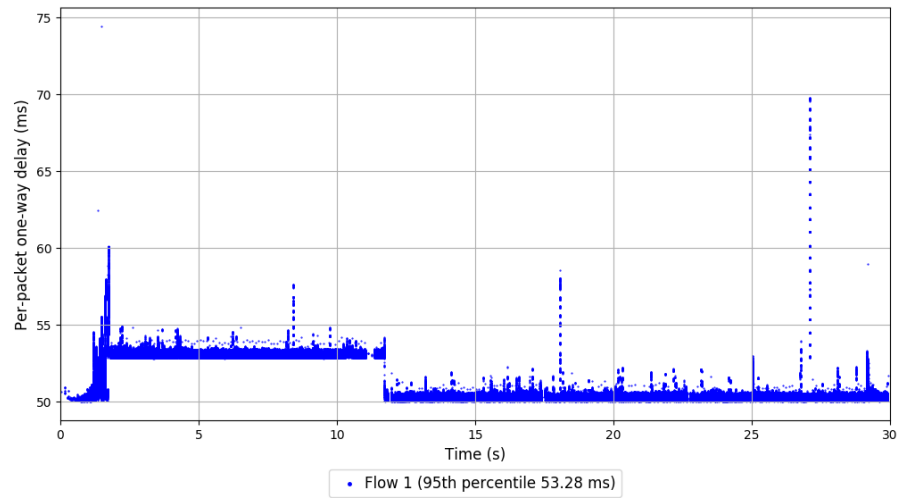
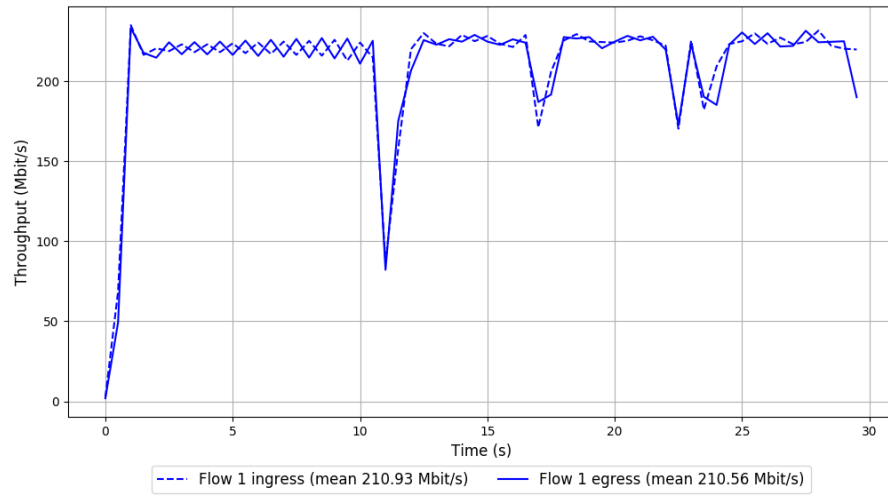
-- Flow 1:

Average throughput: 210.56 Mbit/s

95th percentile per-packet one-way delay: 53.277 ms

Loss rate: 0.51%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 02:30:25

End at: 2017-11-16 02:30:55

Below is generated by plot.py at 2017-11-16 04:42:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.17 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.38%

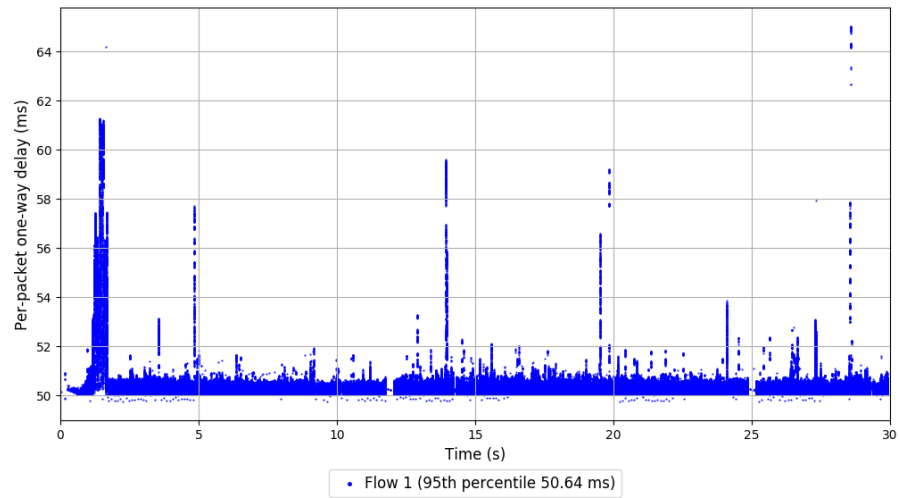
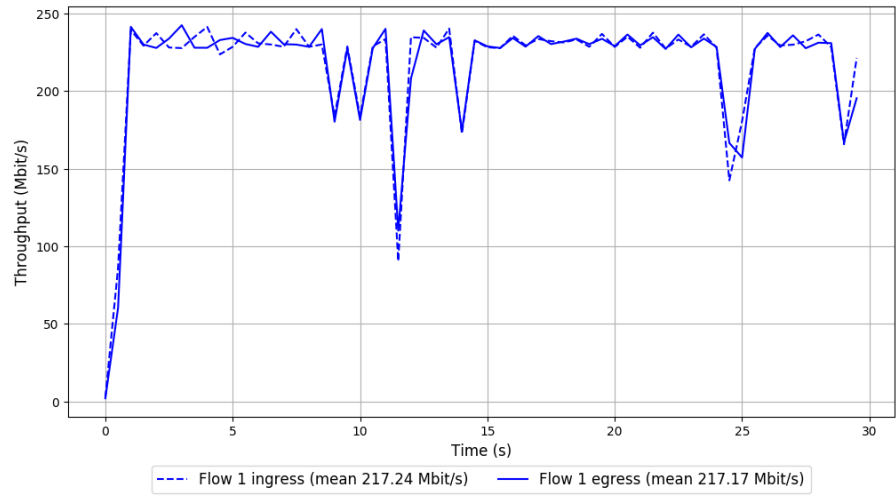
-- Flow 1:

Average throughput: 217.17 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.38%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 02:40:49

End at: 2017-11-16 02:41:19

Below is generated by plot.py at 2017-11-16 04:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.41 Mbit/s

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

Loss rate: 0.36%

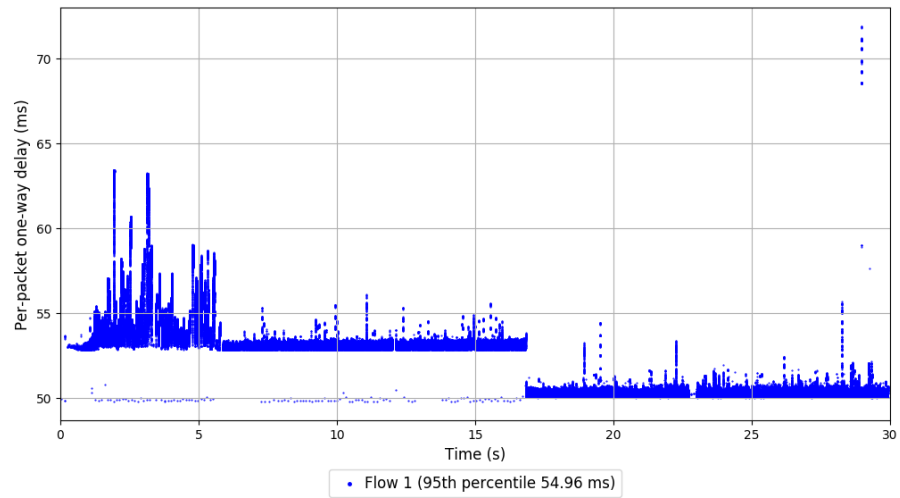
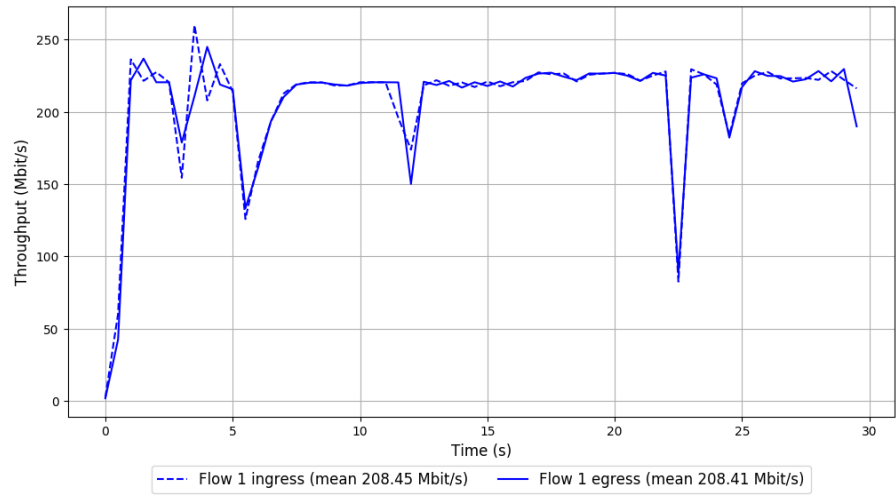
-- Flow 1:

Average throughput: 208.41 Mbit/s

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

Loss rate: 0.36%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-16 02:51:19

End at: 2017-11-16 02:51:49

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.50 Mbit/s

95th percentile per-packet one-way delay: 53.408 ms

Loss rate: 0.37%

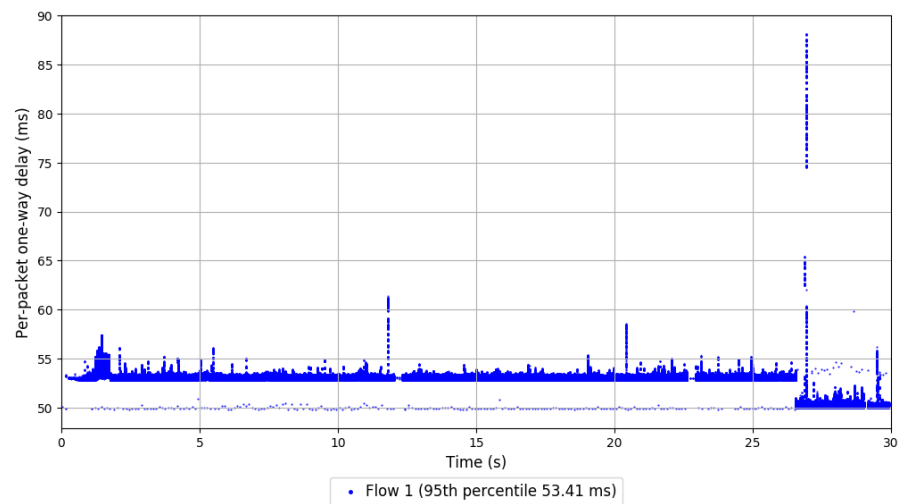
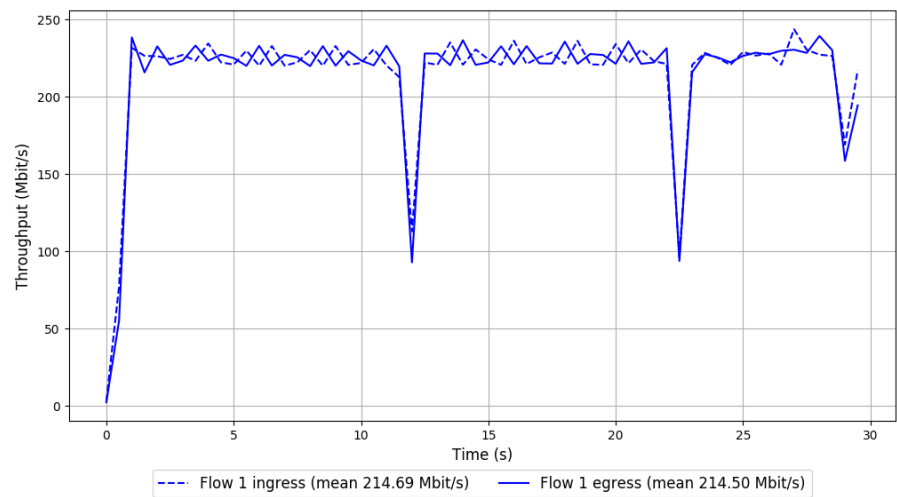
-- Flow 1:

Average throughput: 214.50 Mbit/s

95th percentile per-packet one-way delay: 53.408 ms

Loss rate: 0.37%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 01:19:10

End at: 2017-11-16 01:19:40

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.23 Mbit/s

95th percentile per-packet one-way delay: 54.451 ms

Loss rate: 0.52%

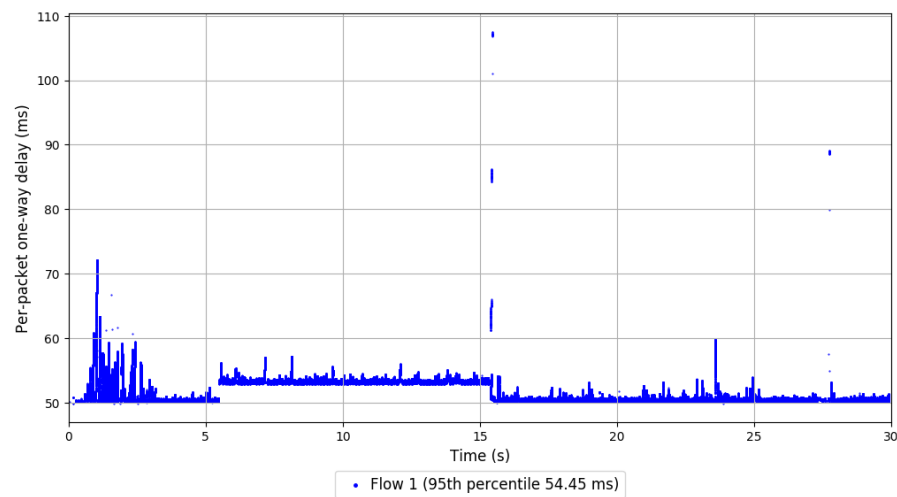
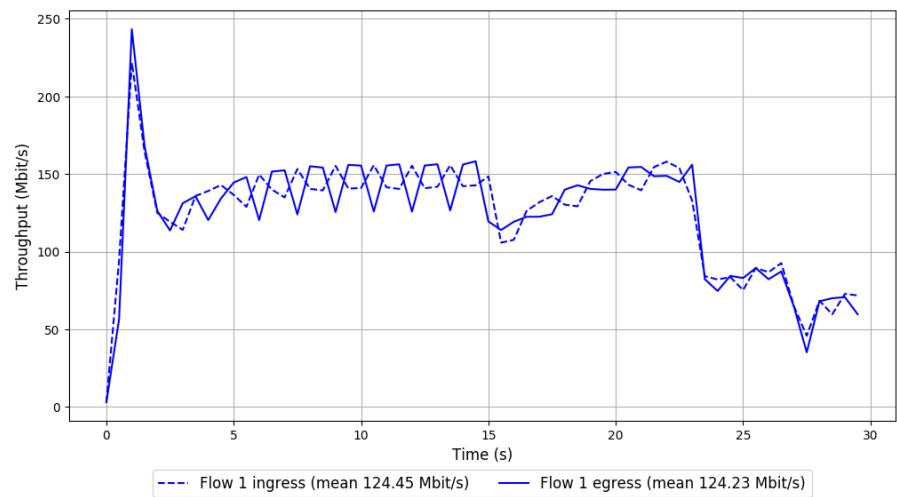
-- Flow 1:

Average throughput: 124.23 Mbit/s

95th percentile per-packet one-way delay: 54.451 ms

Loss rate: 0.52%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 01:29:23

End at: 2017-11-16 01:29:53

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.33 Mbit/s

95th percentile per-packet one-way delay: 57.246 ms

Loss rate: 0.55%

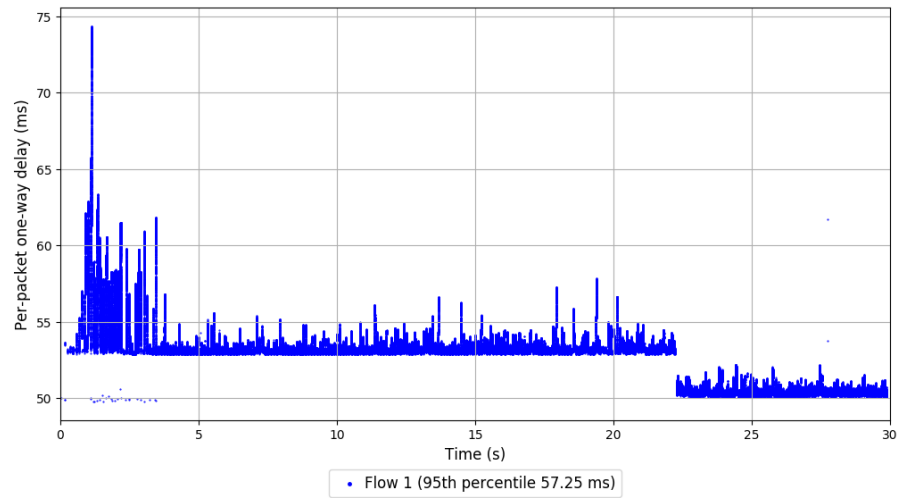
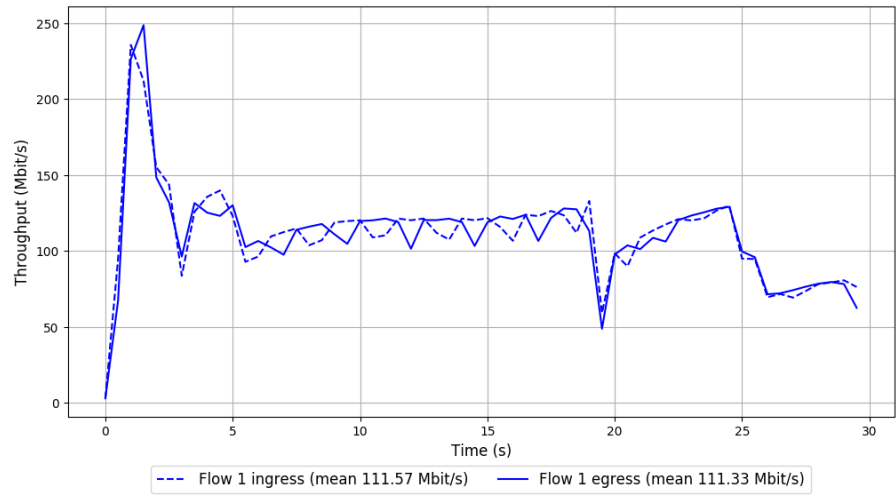
-- Flow 1:

Average throughput: 111.33 Mbit/s

95th percentile per-packet one-way delay: 57.246 ms

Loss rate: 0.55%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 01:39:57

End at: 2017-11-16 01:40:27

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.90 Mbit/s

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

Loss rate: 0.37%

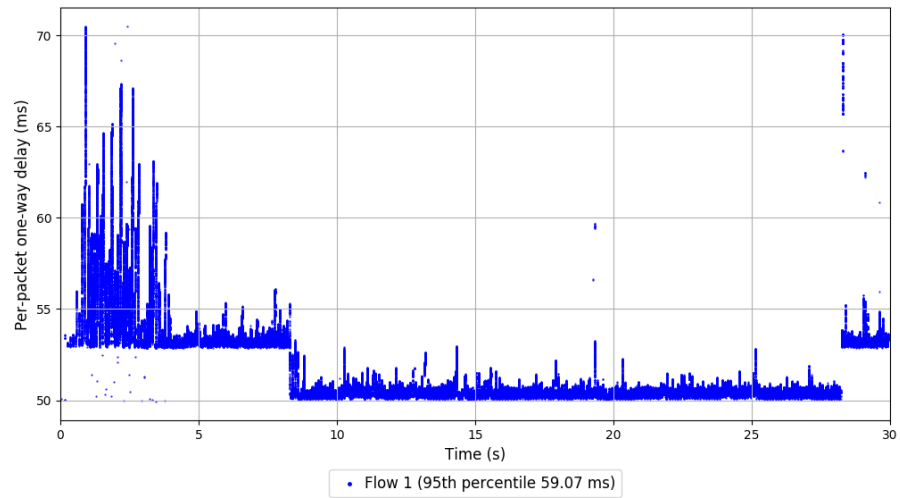
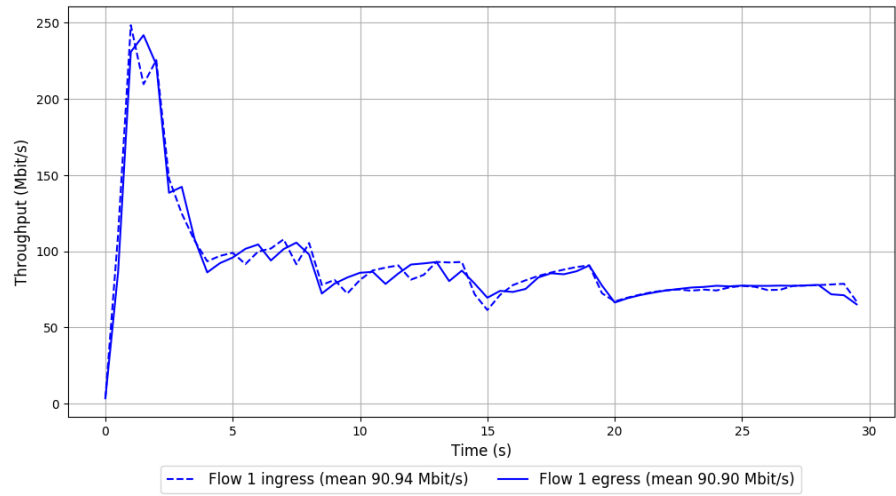
-- Flow 1:

Average throughput: 90.90 Mbit/s

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

Loss rate: 0.37%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 01:50:08

End at: 2017-11-16 01:50:38

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.56 Mbit/s

95th percentile per-packet one-way delay: 57.290 ms

Loss rate: 0.45%

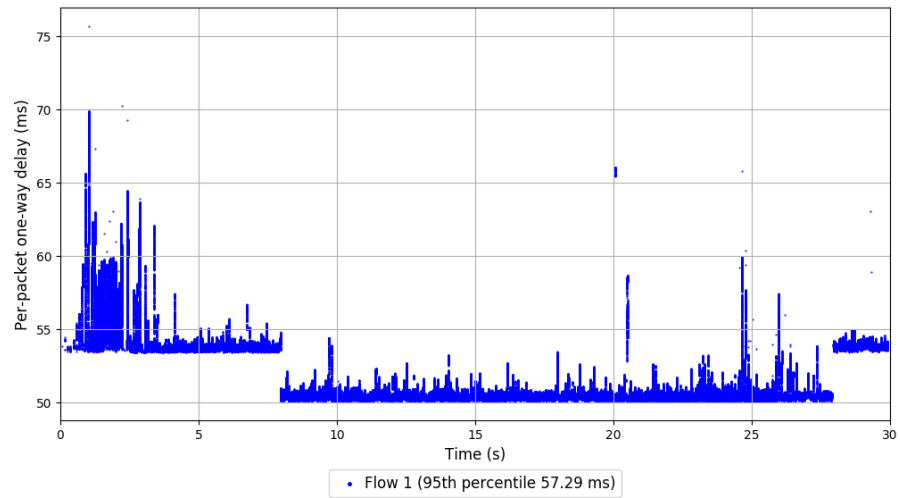
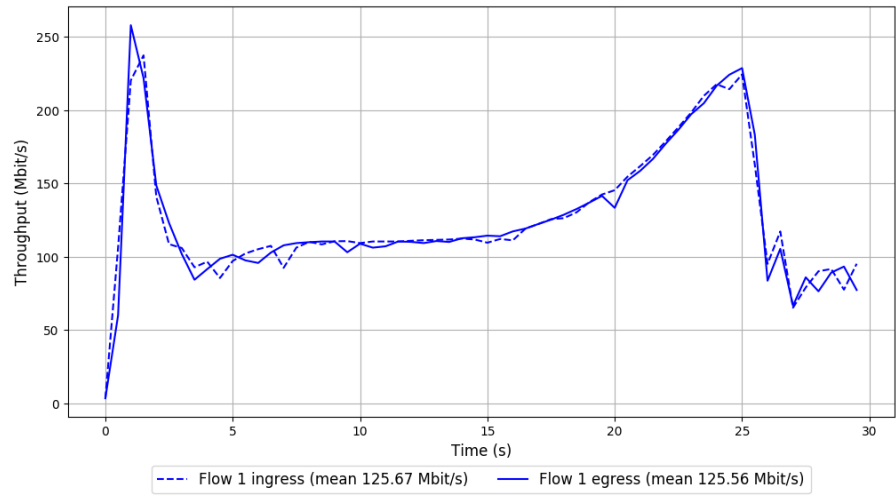
-- Flow 1:

Average throughput: 125.56 Mbit/s

95th percentile per-packet one-way delay: 57.290 ms

Loss rate: 0.45%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 02:00:40

End at: 2017-11-16 02:01:10

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.81 Mbit/s

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

Loss rate: 1.17%

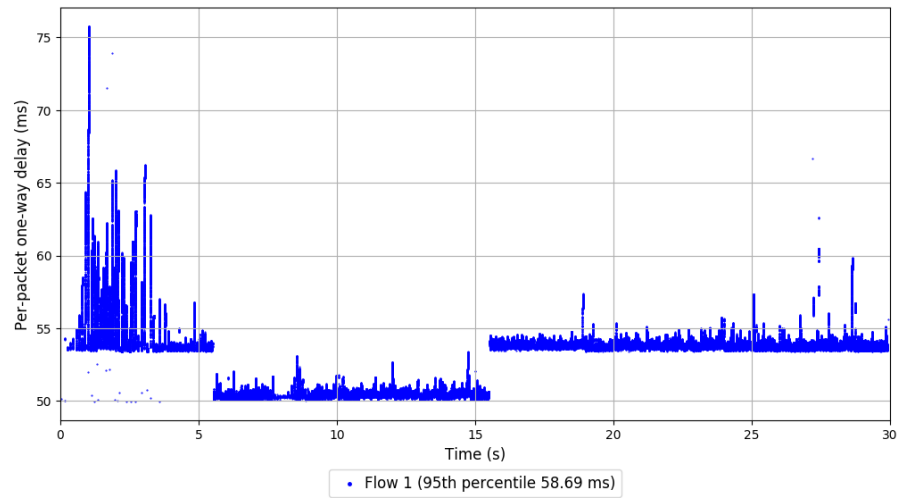
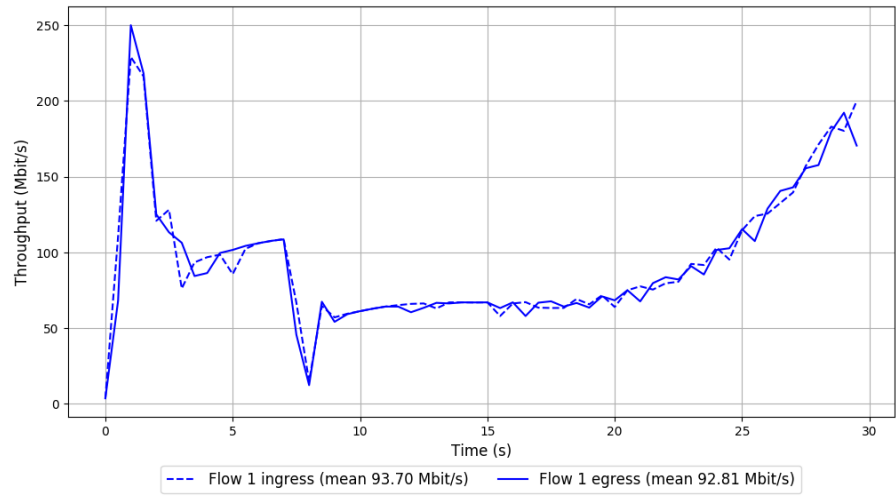
-- Flow 1:

Average throughput: 92.81 Mbit/s

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

Loss rate: 1.17%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 02:10:44

End at: 2017-11-16 02:11:14

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 59.135 ms

Loss rate: 0.26%

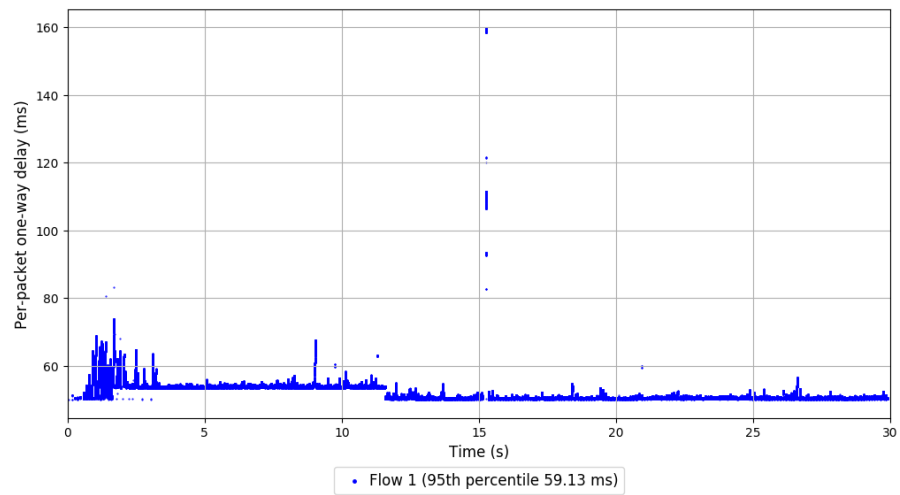
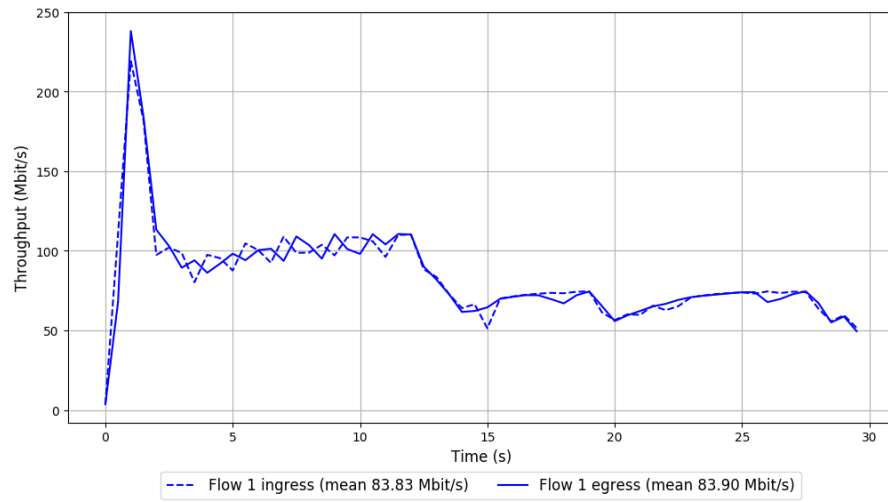
-- Flow 1:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 59.135 ms

Loss rate: 0.26%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

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

End at: 2017-11-16 02:21:32

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.50 Mbit/s

95th percentile per-packet one-way delay: 57.982 ms

Loss rate: 0.53%

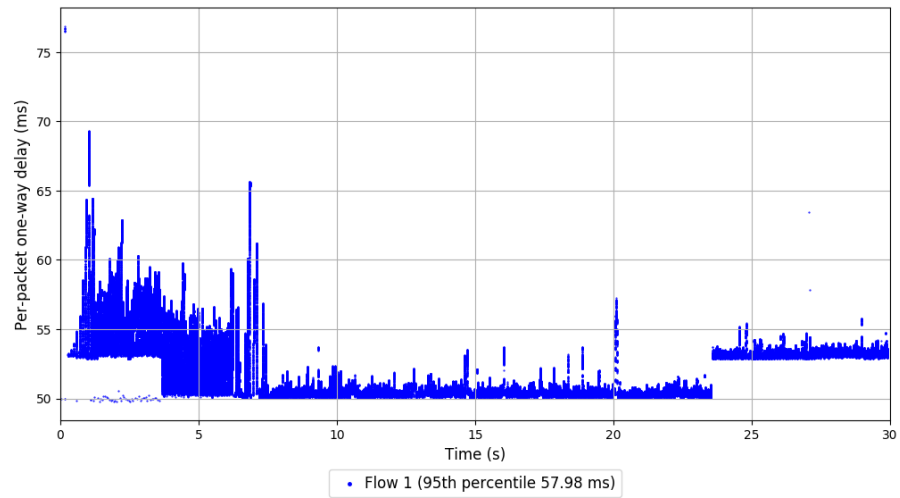
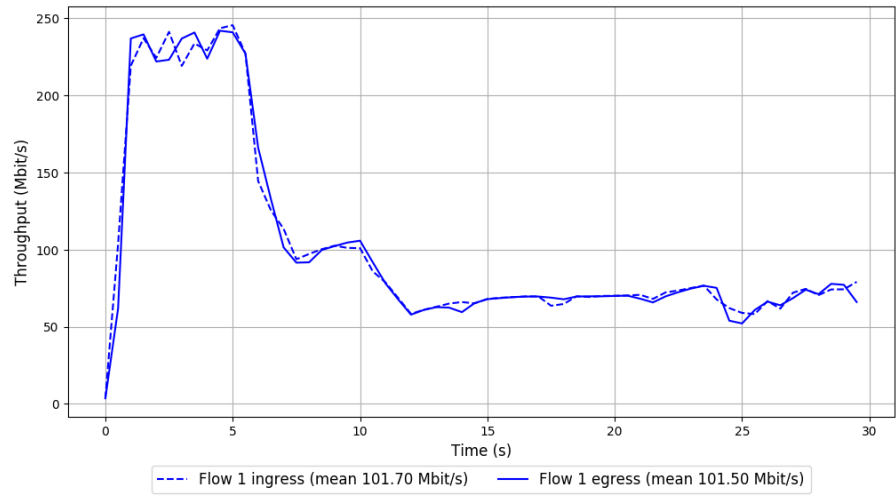
-- Flow 1:

Average throughput: 101.50 Mbit/s

95th percentile per-packet one-way delay: 57.982 ms

Loss rate: 0.53%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 02:31:14

End at: 2017-11-16 02:31:44

Below is generated by plot.py at 2017-11-16 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 54.471 ms

Loss rate: 0.35%

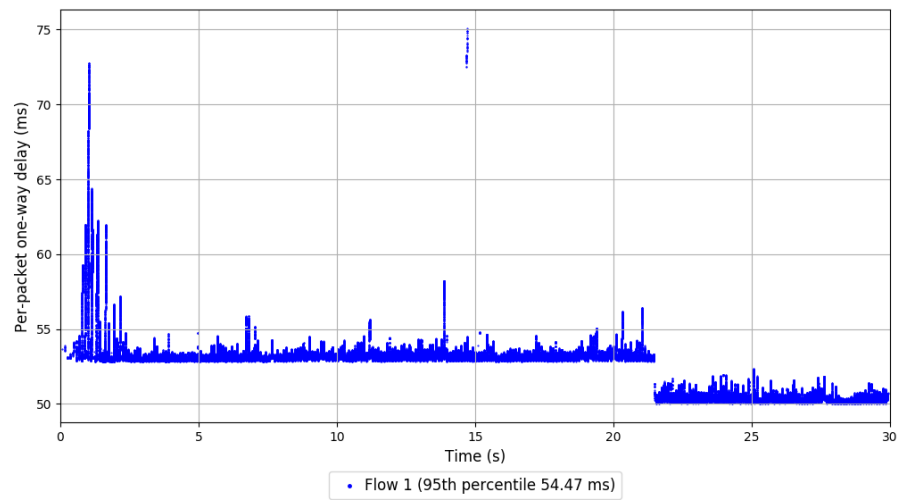
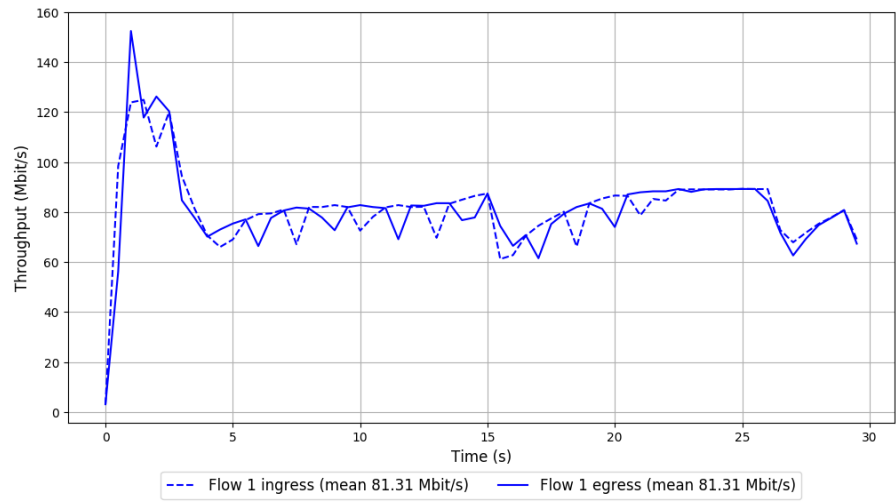
-- Flow 1:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 54.471 ms

Loss rate: 0.35%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 02:41:37

End at: 2017-11-16 02:42:07

Below is generated by plot.py at 2017-11-16 04:46:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.23 Mbit/s

95th percentile per-packet one-way delay: 55.359 ms

Loss rate: 0.58%

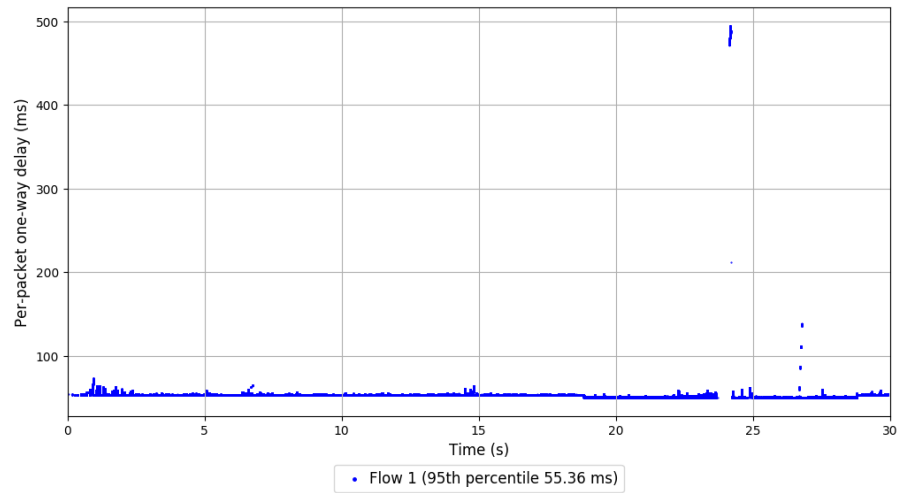
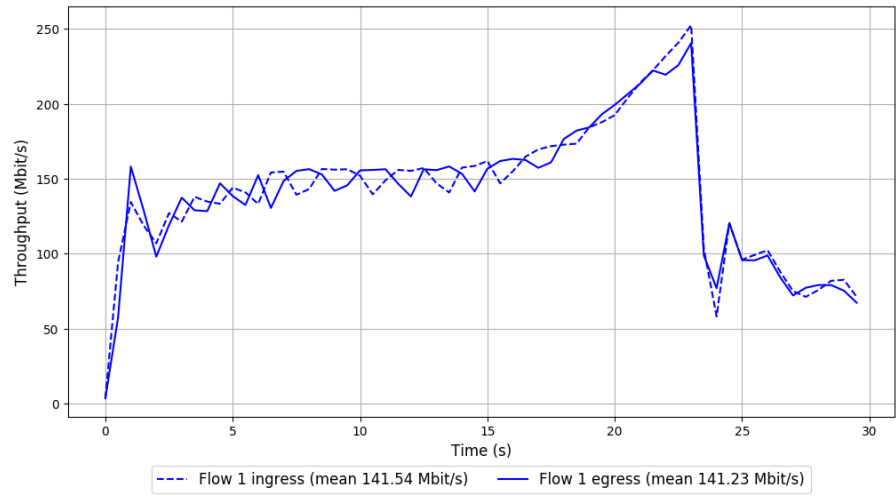
-- Flow 1:

Average throughput: 141.23 Mbit/s

95th percentile per-packet one-way delay: 55.359 ms

Loss rate: 0.58%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 02:52:07

End at: 2017-11-16 02:52:37

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.39 Mbit/s

95th percentile per-packet one-way delay: 55.082 ms

Loss rate: 0.35%

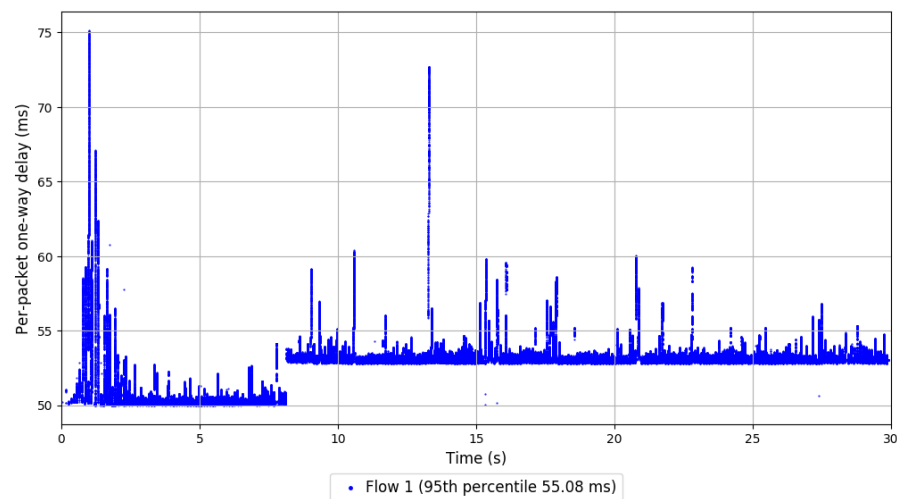
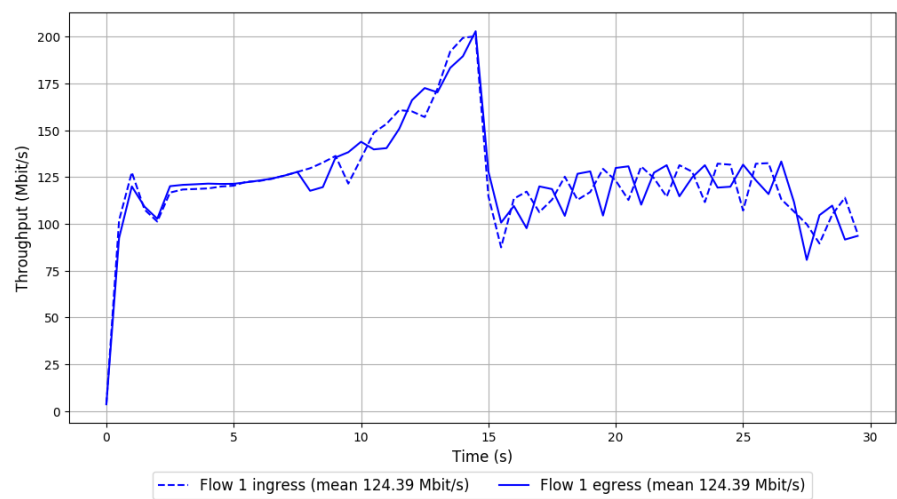
-- Flow 1:

Average throughput: 124.39 Mbit/s

95th percentile per-packet one-way delay: 55.082 ms

Loss rate: 0.35%

Run 10: Report of TCP Cubic — Data Link

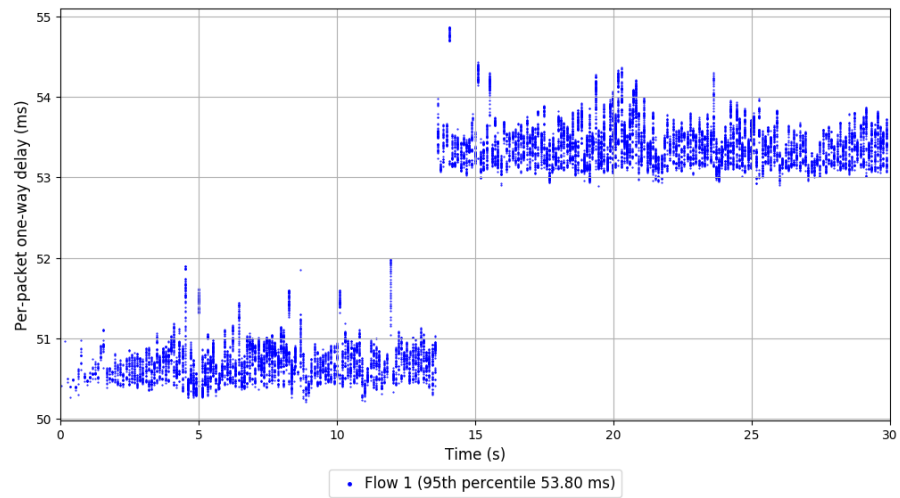
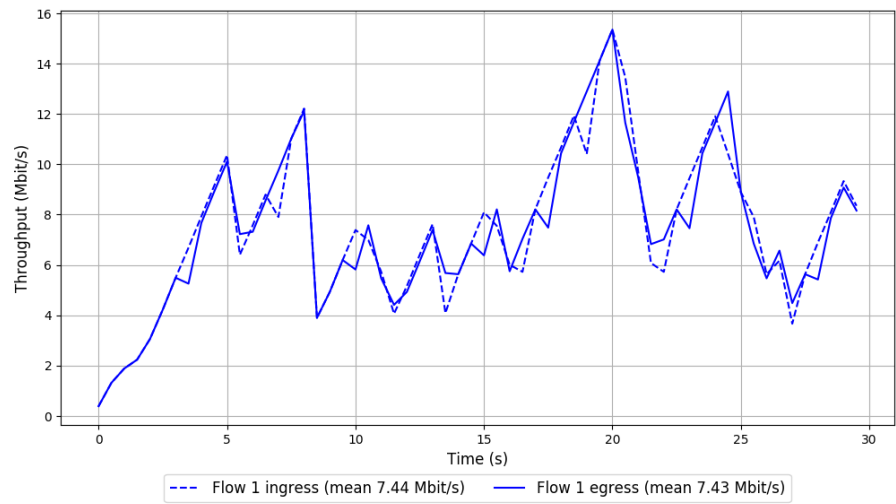


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 01:10:42
End at: 2017-11-16 01:11:12

# Below is generated by plot.py at 2017-11-16 04:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.51%
```

Run 1: Report of LEDBAT — Data Link

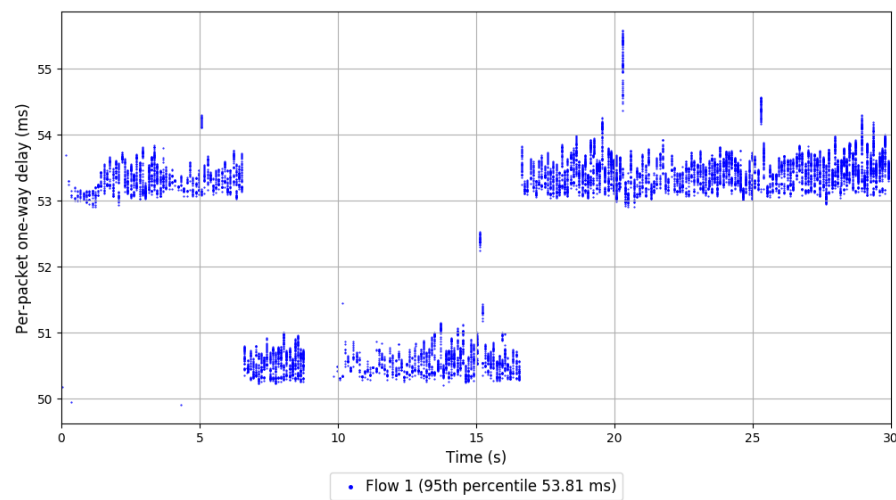
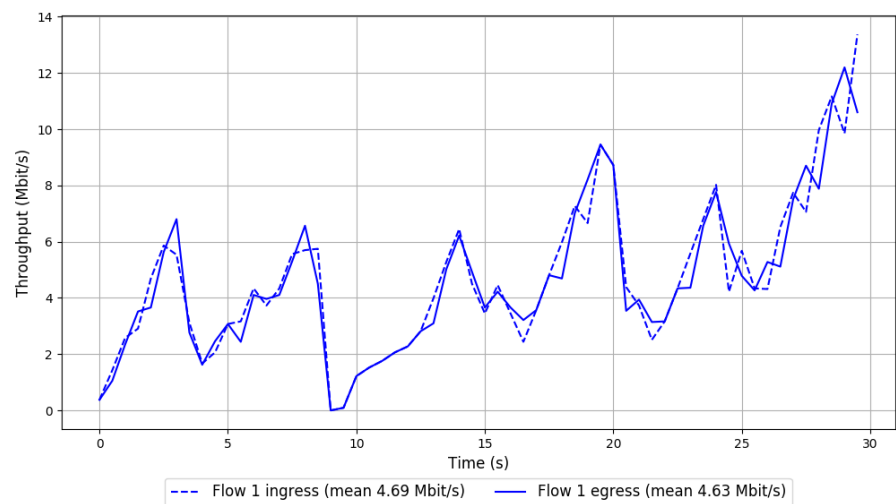


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-16 01:21:09
End at: 2017-11-16 01:21:39

# Below is generated by plot.py at 2017-11-16 04:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 1.55%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-16 01:31:20

End at: 2017-11-16 01:31:50

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 53.480 ms

Loss rate: 0.55%

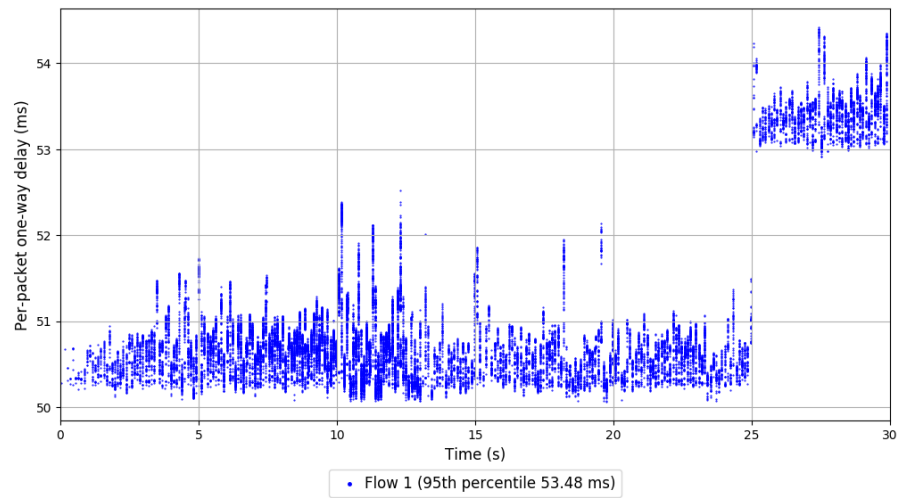
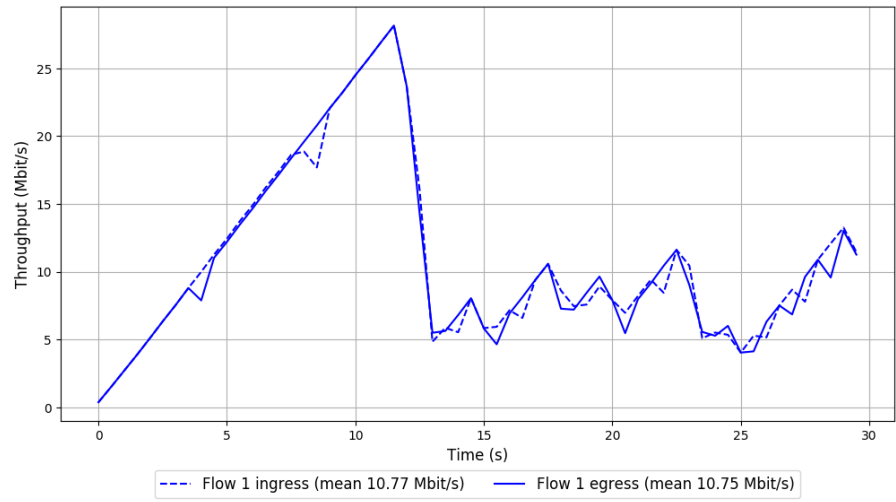
-- Flow 1:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 53.480 ms

Loss rate: 0.55%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-16 01:41:54

End at: 2017-11-16 01:42:24

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.94%

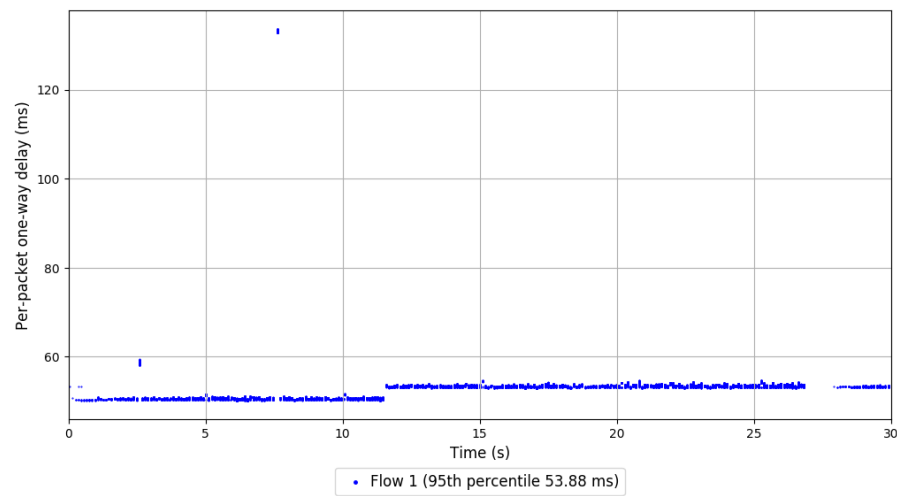
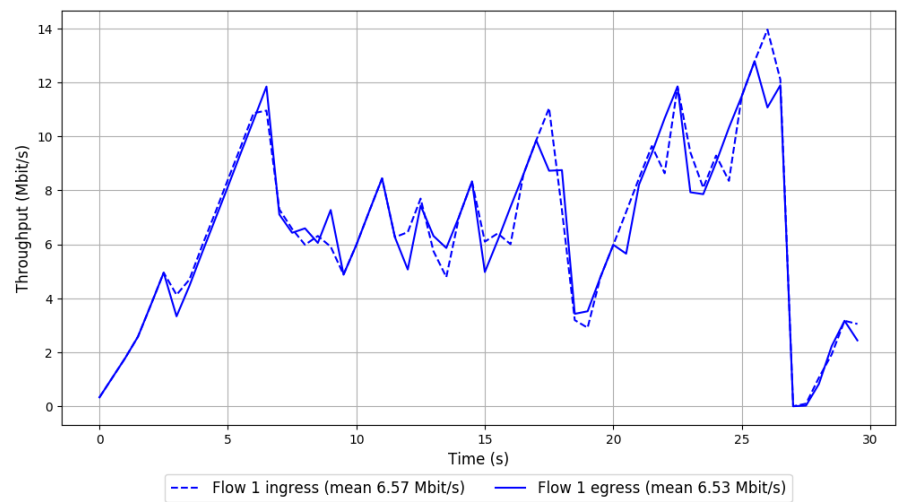
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.94%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-16 01:52:06

End at: 2017-11-16 01:52:36

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 0.79%

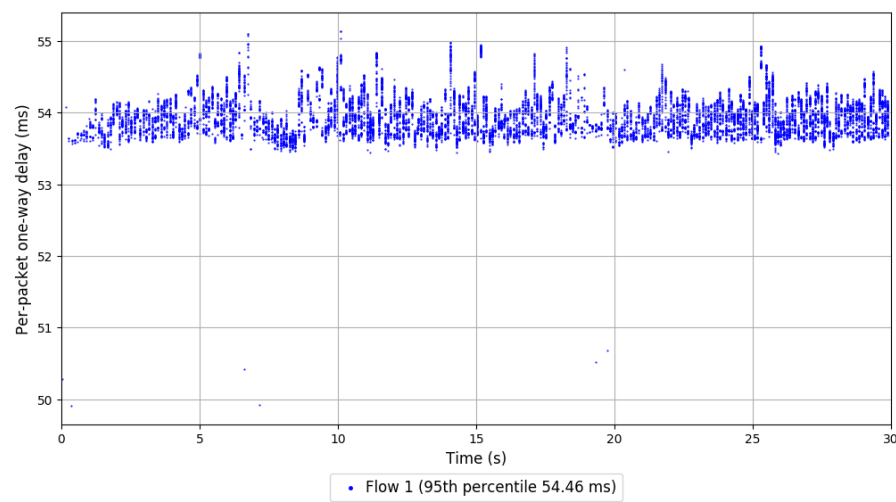
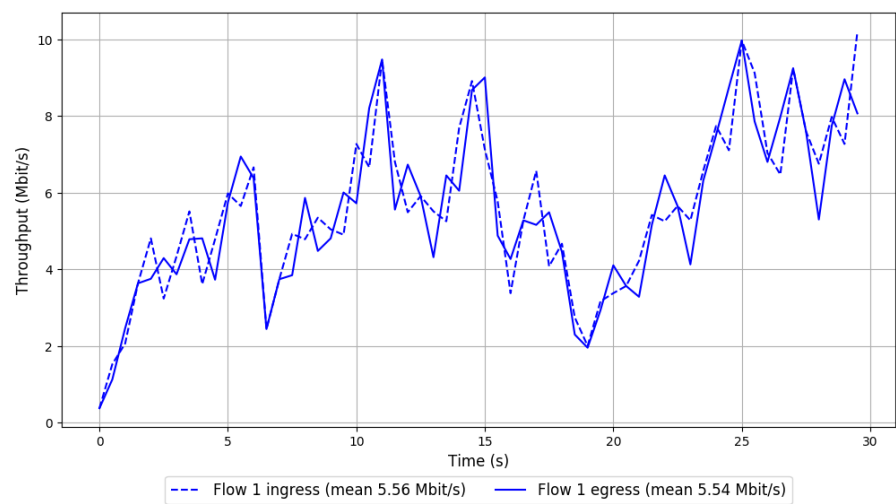
-- Flow 1:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 0.79%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-16 02:02:37

End at: 2017-11-16 02:03:07

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 0.60%

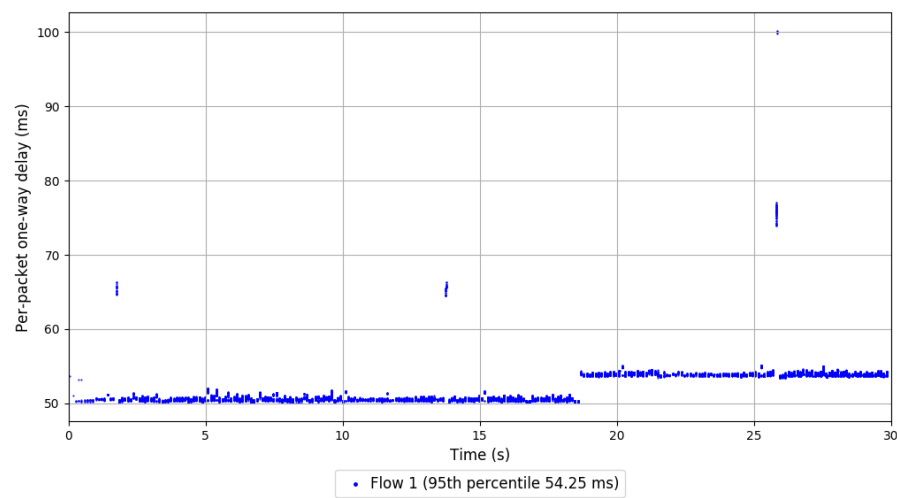
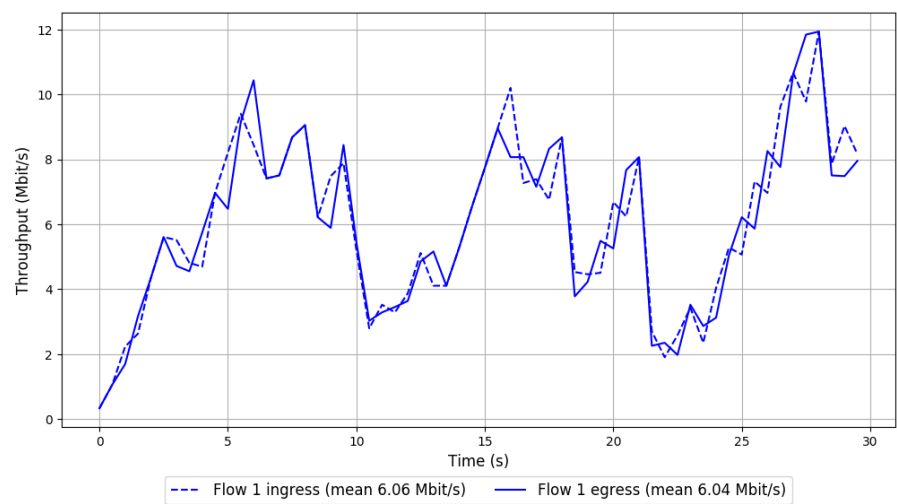
-- Flow 1:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 0.60%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-16 02:12:40

End at: 2017-11-16 02:13:10

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 54.264 ms

Loss rate: 1.73%

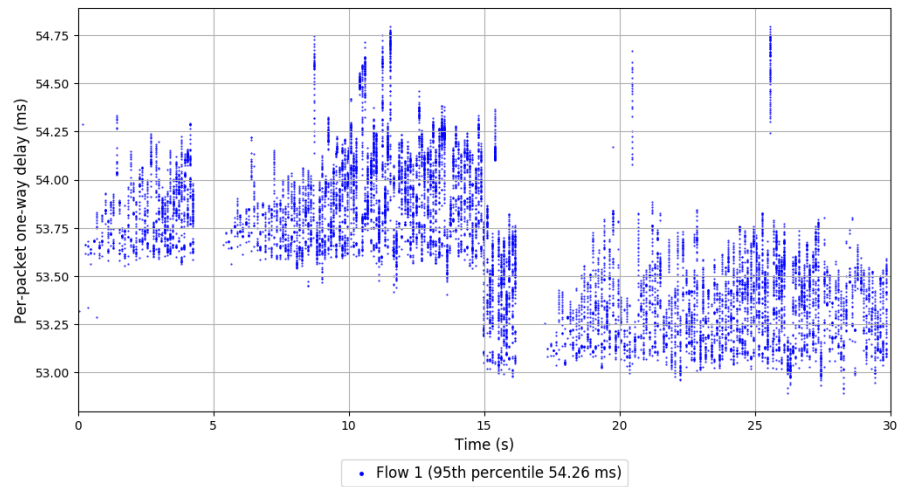
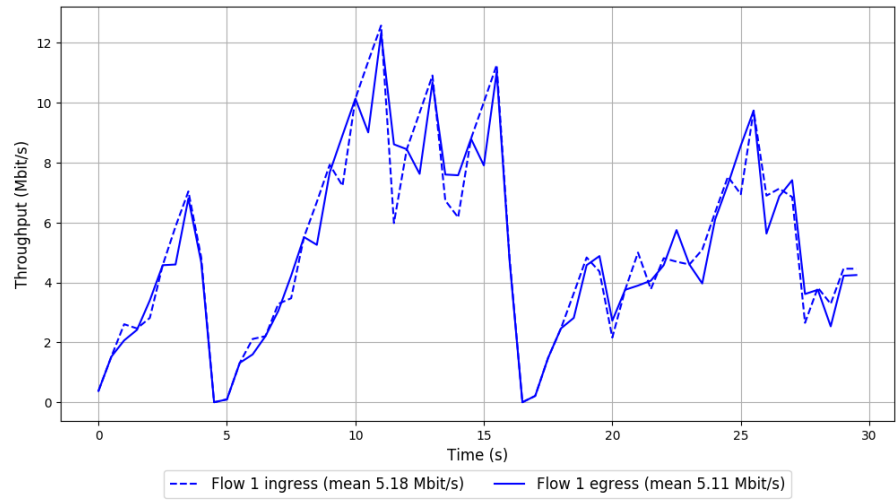
-- Flow 1:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 54.264 ms

Loss rate: 1.73%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 02:22:59

End at: 2017-11-16 02:23:29

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 53.702 ms

Loss rate: 1.04%

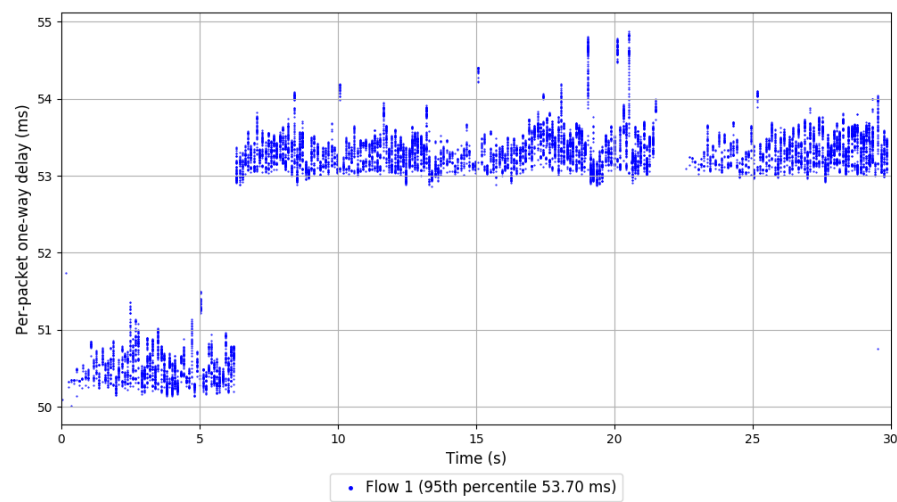
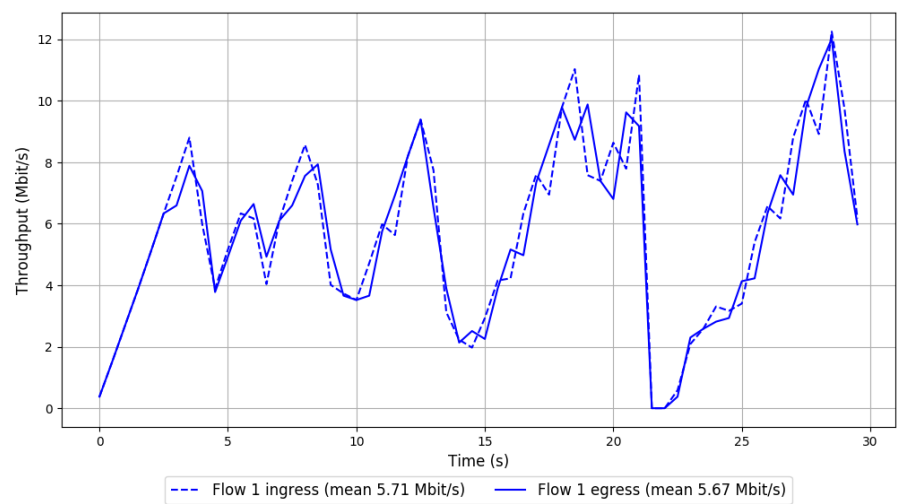
-- Flow 1:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 53.702 ms

Loss rate: 1.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-16 02:33:11

End at: 2017-11-16 02:33:41

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 54.386 ms

Loss rate: 0.69%

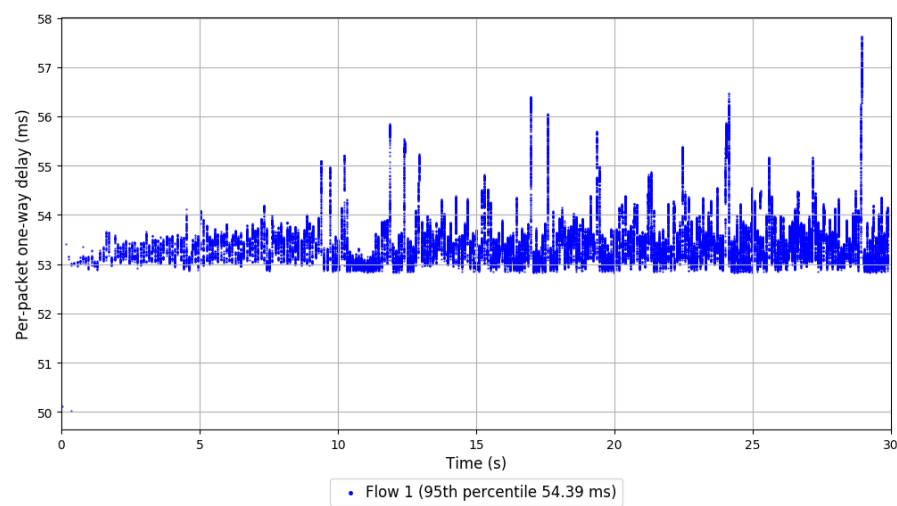
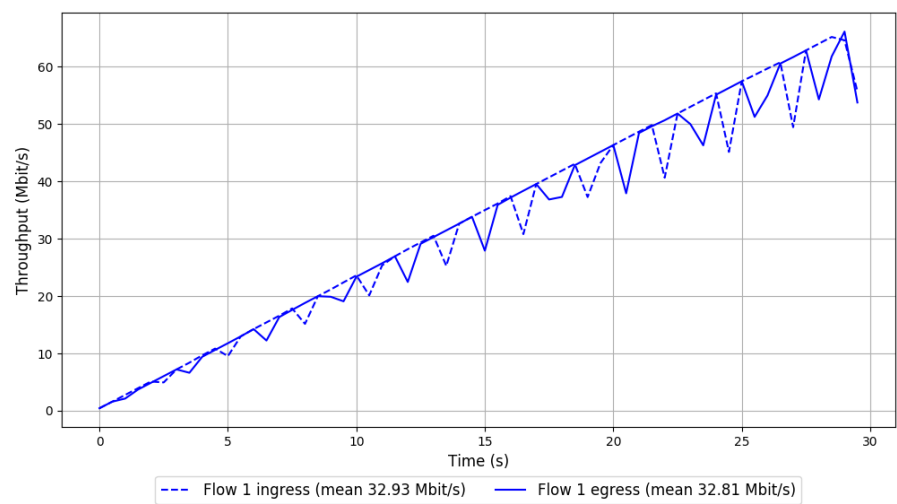
-- Flow 1:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 54.386 ms

Loss rate: 0.69%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-16 02:43:36

End at: 2017-11-16 02:44:06

Below is generated by plot.py at 2017-11-16 04:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.33 Mbit/s

95th percentile per-packet one-way delay: 54.137 ms

Loss rate: 0.30%

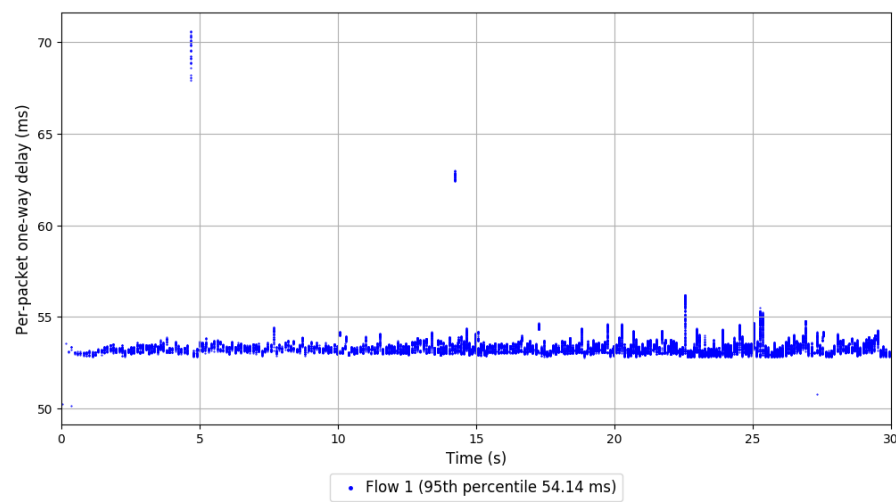
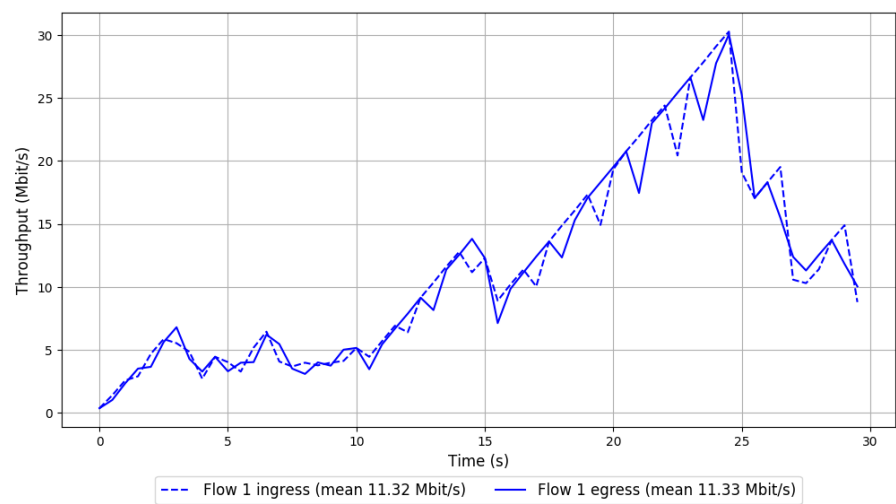
-- Flow 1:

Average throughput: 11.33 Mbit/s

95th percentile per-packet one-way delay: 54.137 ms

Loss rate: 0.30%

Run 10: Report of LEDBAT — Data Link

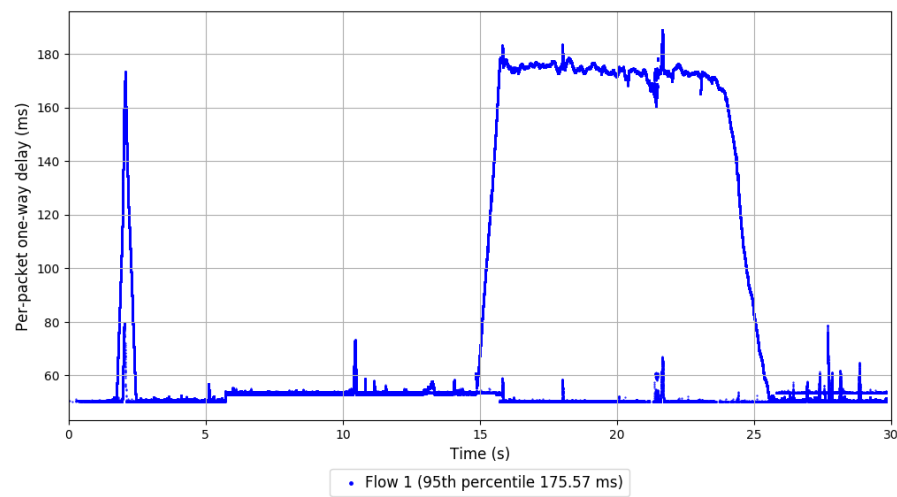
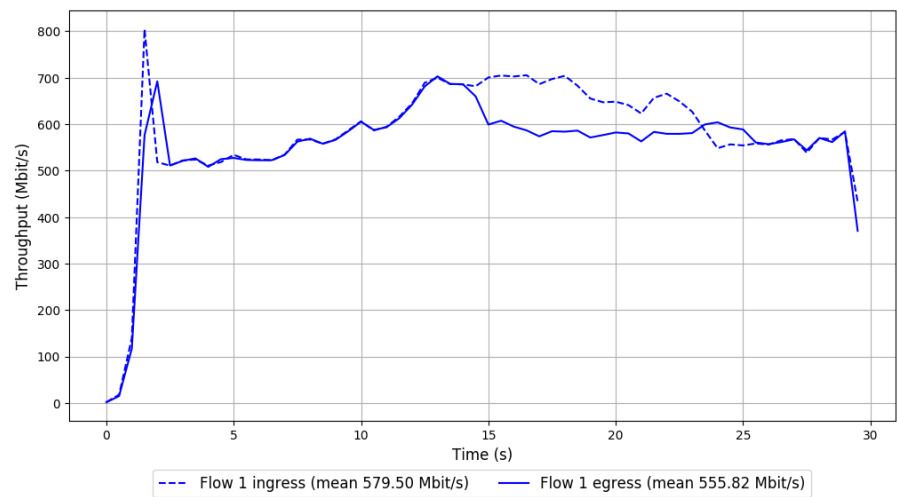


```
Run 1: Statistics of PCC

Start at: 2017-11-16 01:11:20
End at: 2017-11-16 01:11:50

# Below is generated by plot.py at 2017-11-16 04:55:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.82 Mbit/s
95th percentile per-packet one-way delay: 175.568 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 555.82 Mbit/s
95th percentile per-packet one-way delay: 175.568 ms
Loss rate: 4.42%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-16 01:21:46

End at: 2017-11-16 01:22:16

Below is generated by plot.py at 2017-11-16 04:55:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.22 Mbit/s

95th percentile per-packet one-way delay: 68.503 ms

Loss rate: 0.71%

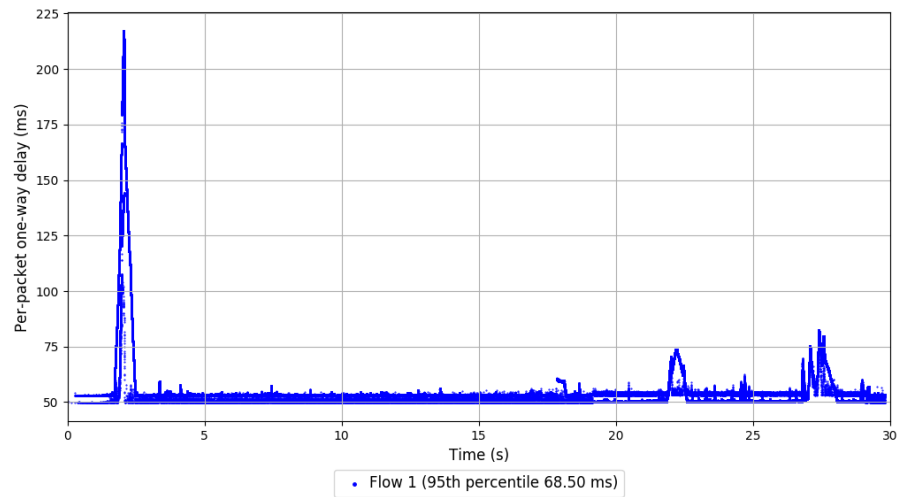
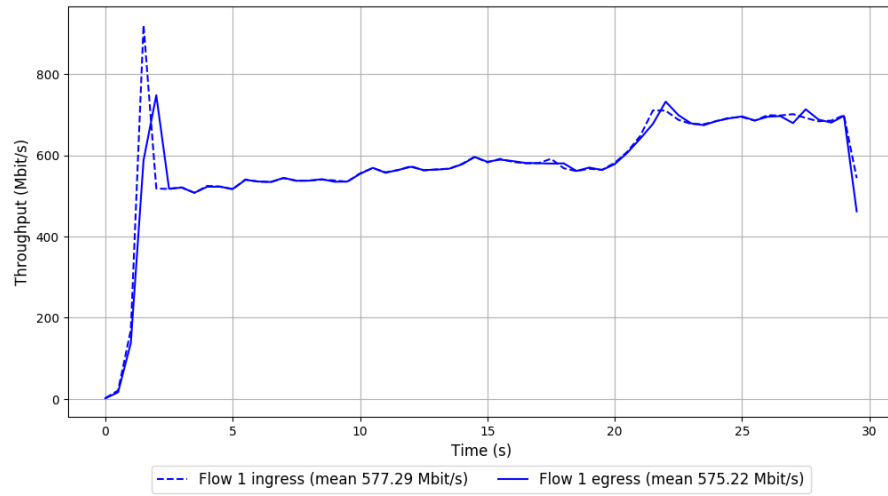
-- Flow 1:

Average throughput: 575.22 Mbit/s

95th percentile per-packet one-way delay: 68.503 ms

Loss rate: 0.71%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-16 01:31:58

End at: 2017-11-16 01:32:28

Below is generated by plot.py at 2017-11-16 04:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.25 Mbit/s

95th percentile per-packet one-way delay: 129.953 ms

Loss rate: 1.08%

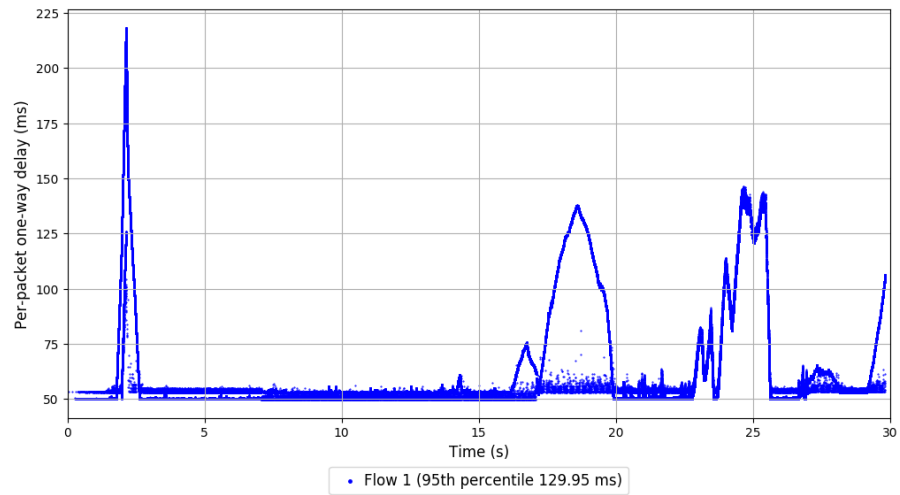
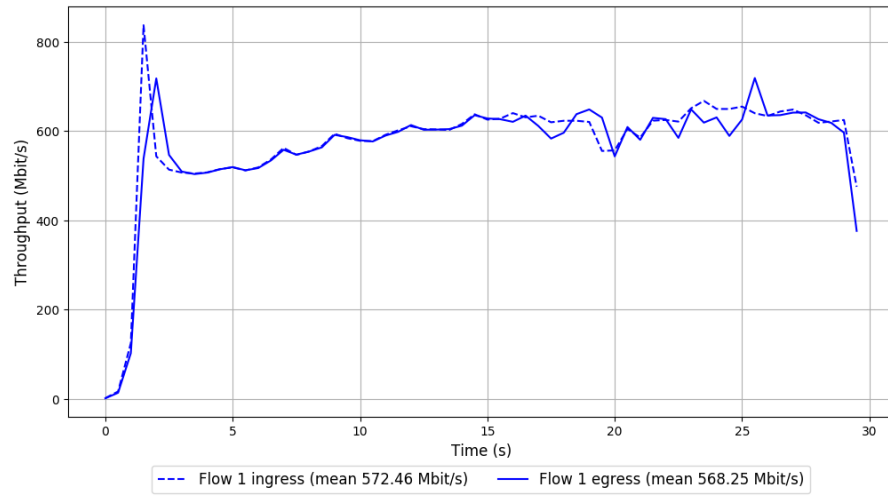
-- Flow 1:

Average throughput: 568.25 Mbit/s

95th percentile per-packet one-way delay: 129.953 ms

Loss rate: 1.08%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-16 01:42:32

End at: 2017-11-16 01:43:02

Below is generated by plot.py at 2017-11-16 04:55:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 565.51 Mbit/s

95th percentile per-packet one-way delay: 158.292 ms

Loss rate: 0.78%

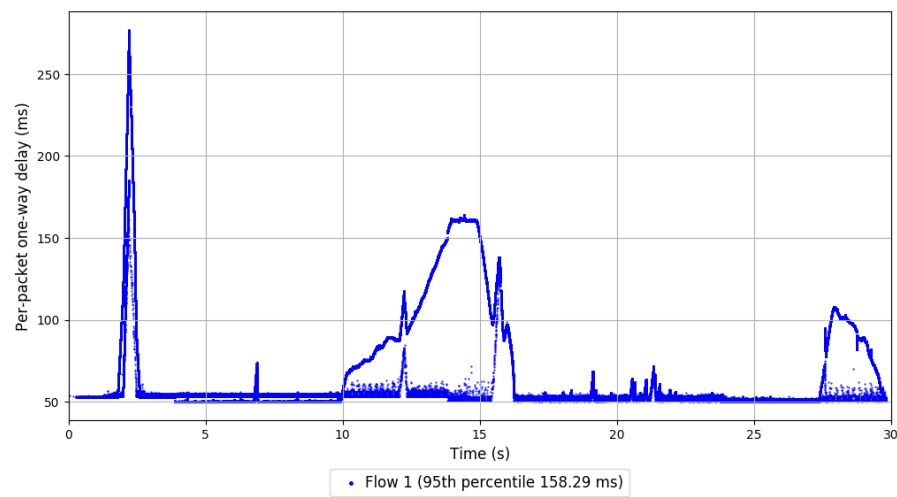
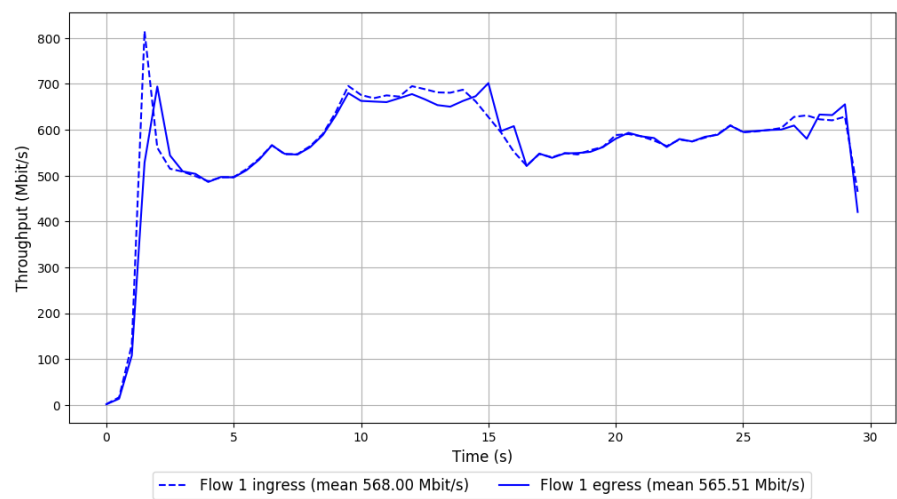
-- Flow 1:

Average throughput: 565.51 Mbit/s

95th percentile per-packet one-way delay: 158.292 ms

Loss rate: 0.78%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 01:52:44

End at: 2017-11-16 01:53:14

Below is generated by plot.py at 2017-11-16 04:56:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 608.78 Mbit/s

95th percentile per-packet one-way delay: 178.731 ms

Loss rate: 3.05%

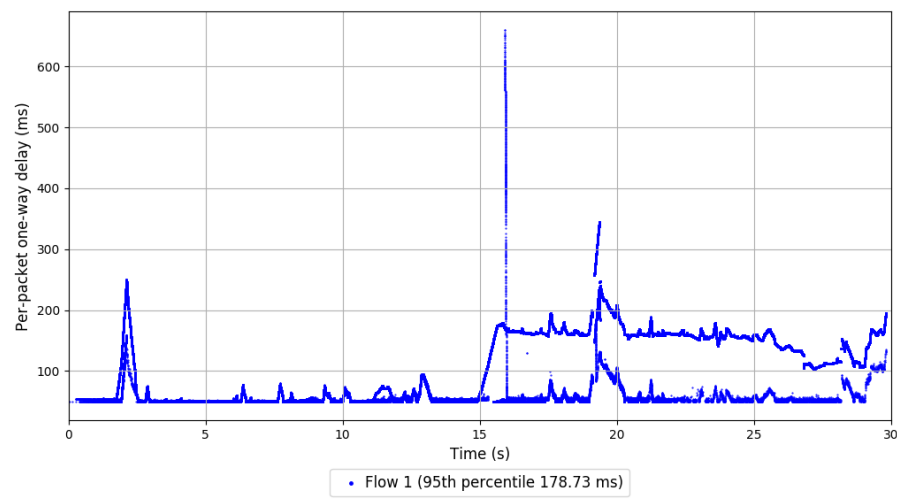
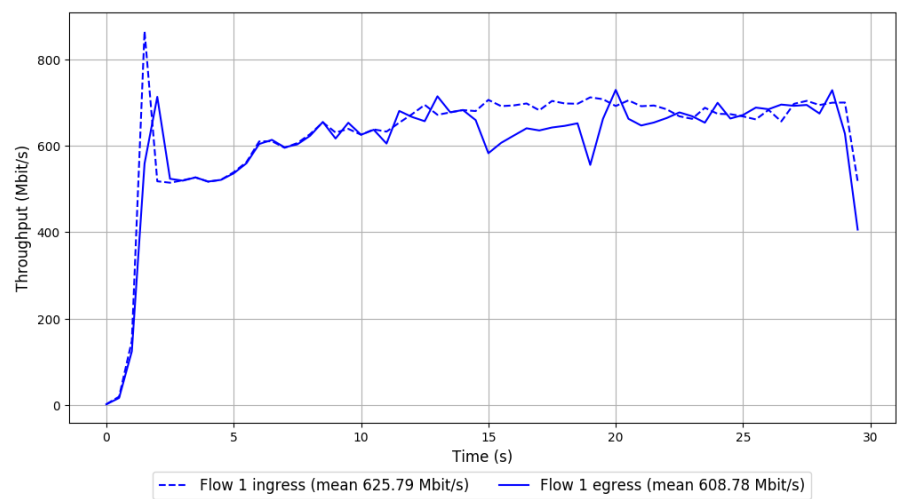
-- Flow 1:

Average throughput: 608.78 Mbit/s

95th percentile per-packet one-way delay: 178.731 ms

Loss rate: 3.05%

Run 5: Report of PCC — Data Link

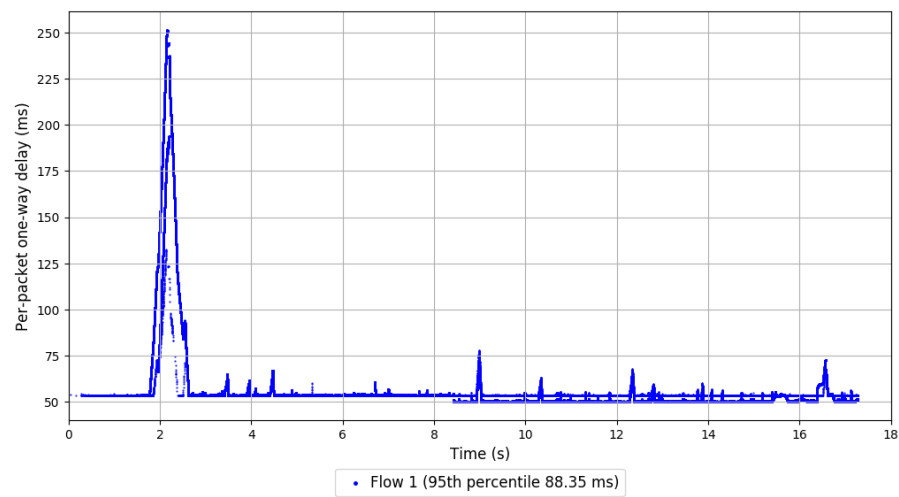
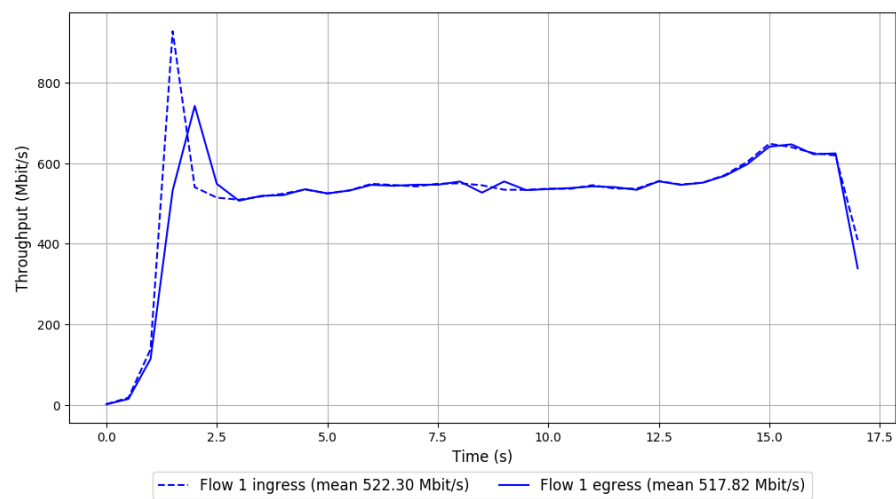


Run 6: Statistics of PCC

Start at: 2017-11-16 02:03:14

End at: 2017-11-16 02:03:44

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-16 02:13:18

End at: 2017-11-16 02:13:48

Below is generated by plot.py at 2017-11-16 04:56:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.51 Mbit/s

95th percentile per-packet one-way delay: 64.495 ms

Loss rate: 0.68%

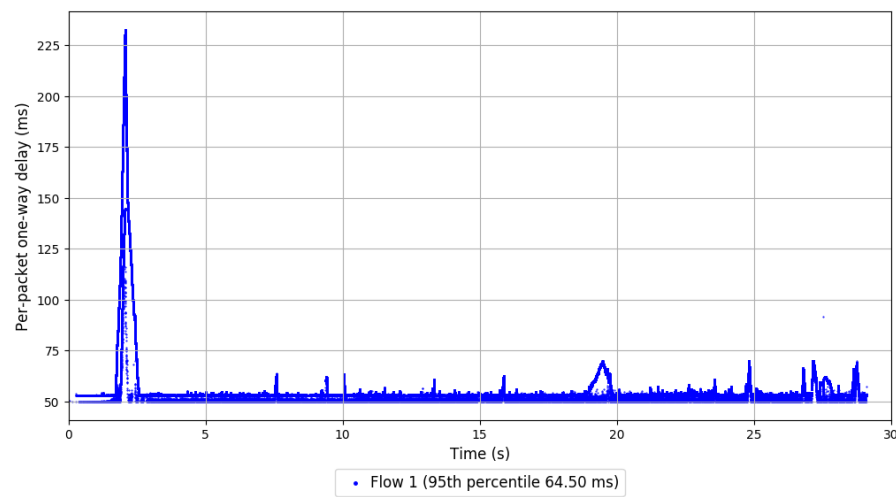
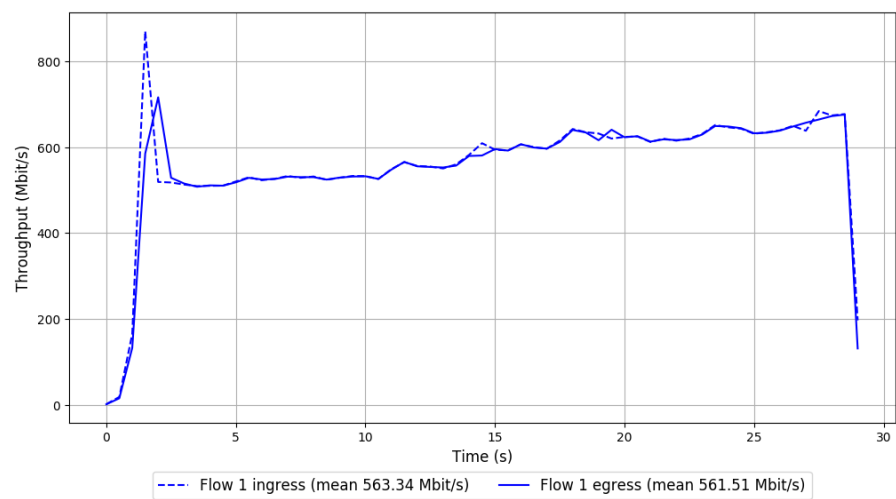
-- Flow 1:

Average throughput: 561.51 Mbit/s

95th percentile per-packet one-way delay: 64.495 ms

Loss rate: 0.68%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-16 02:23:37

End at: 2017-11-16 02:24:07

Below is generated by plot.py at 2017-11-16 04:56:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.45 Mbit/s

95th percentile per-packet one-way delay: 161.625 ms

Loss rate: 2.71%

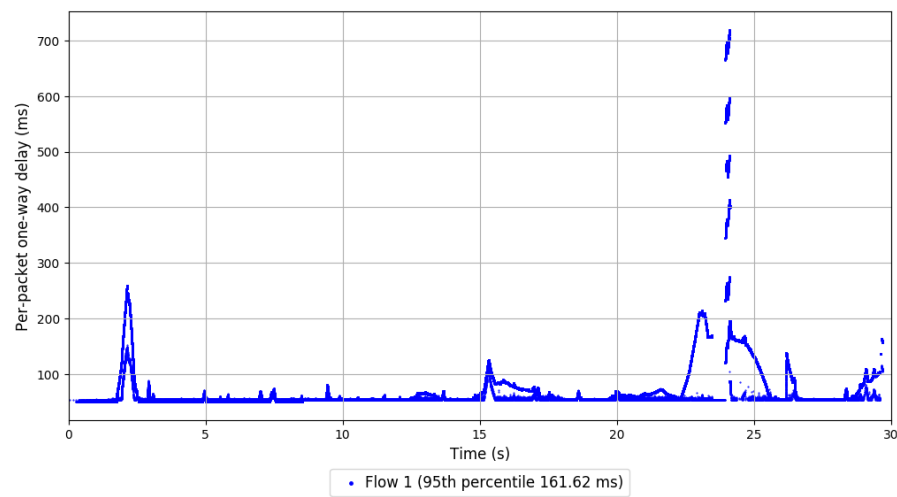
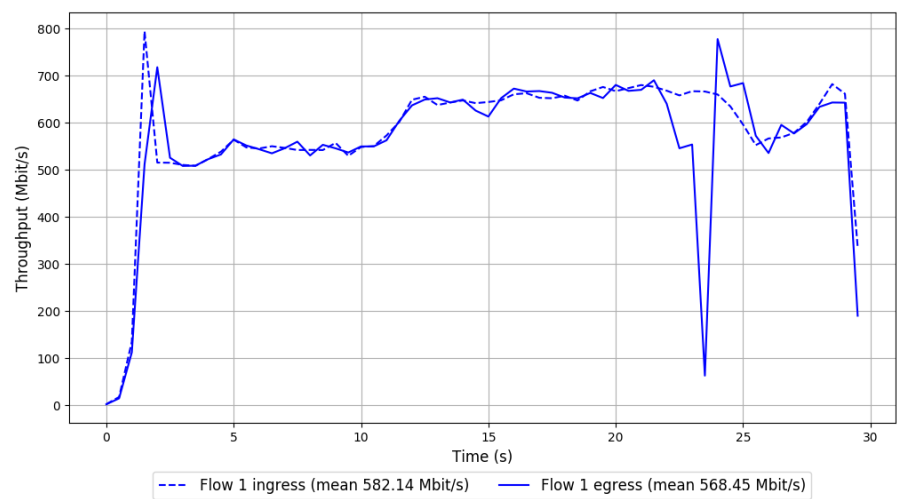
-- Flow 1:

Average throughput: 568.45 Mbit/s

95th percentile per-packet one-way delay: 161.625 ms

Loss rate: 2.71%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-16 02:33:50

End at: 2017-11-16 02:34:20

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.07 Mbit/s

95th percentile per-packet one-way delay: 161.492 ms

Loss rate: 1.09%

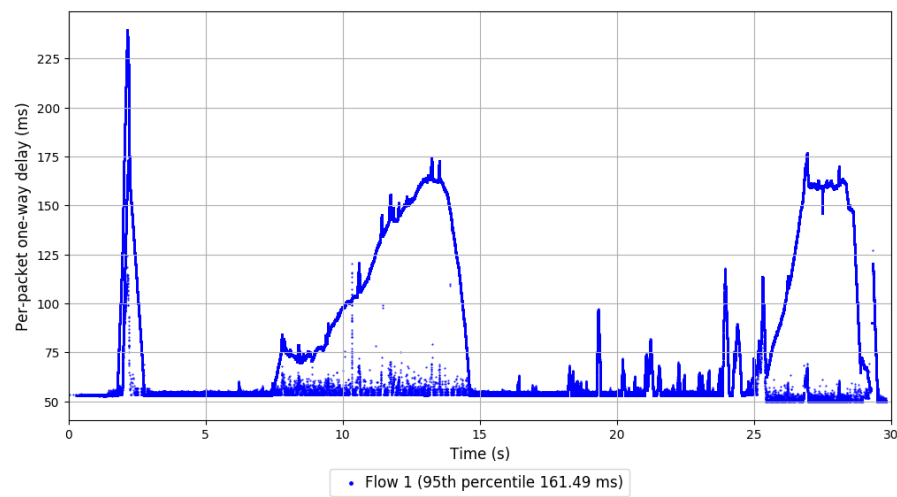
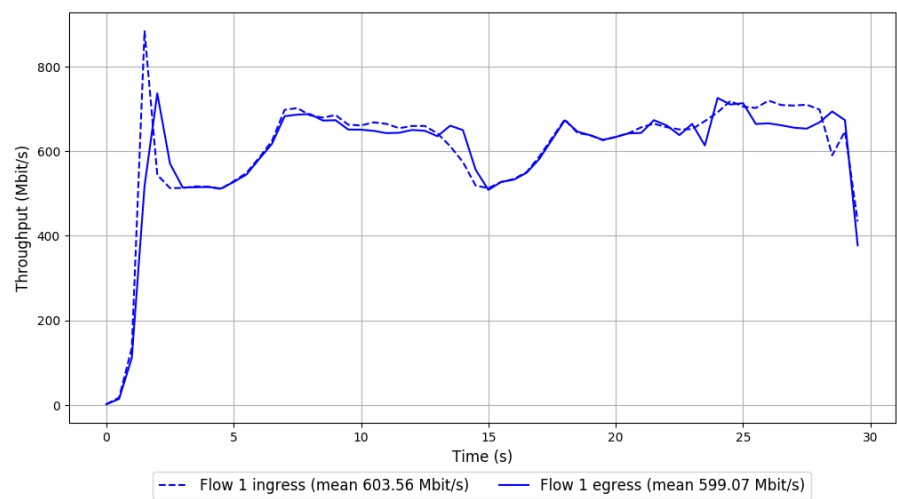
-- Flow 1:

Average throughput: 599.07 Mbit/s

95th percentile per-packet one-way delay: 161.492 ms

Loss rate: 1.09%

Run 9: Report of PCC — Data Link

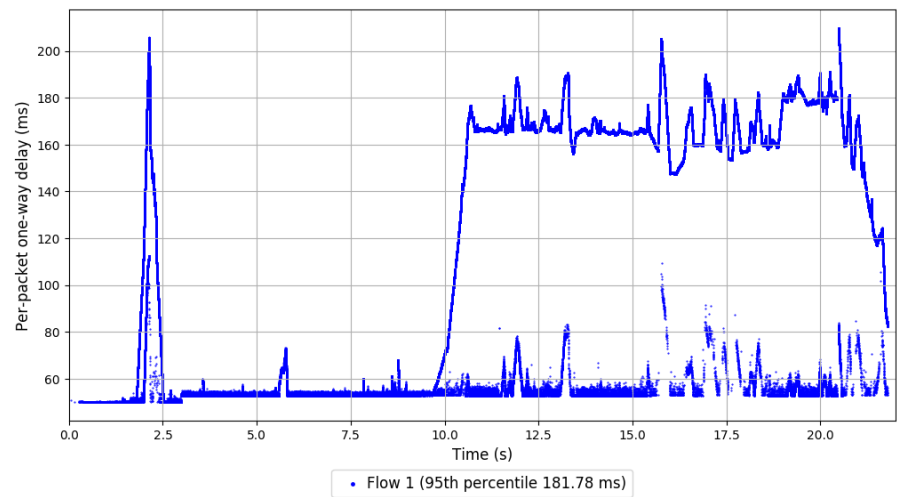
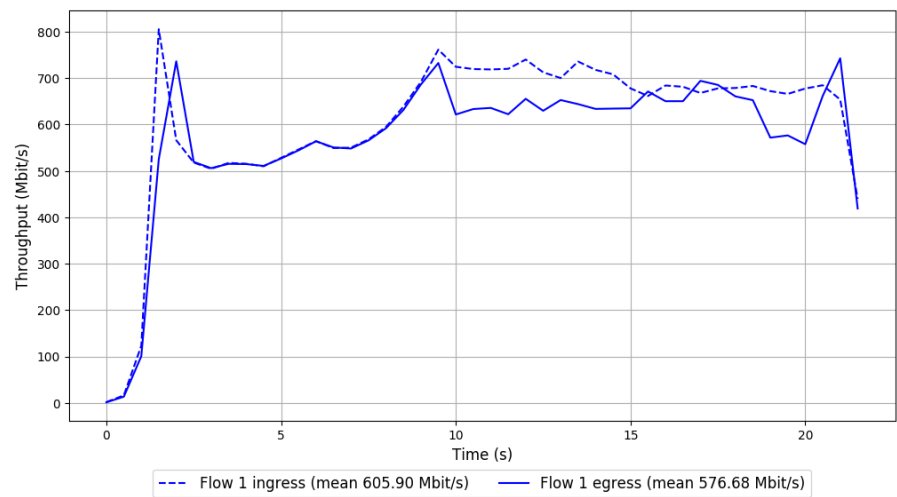


Run 10: Statistics of PCC

Start at: 2017-11-16 02:44:14

End at: 2017-11-16 02:44:44

Run 10: Report of PCC — Data Link

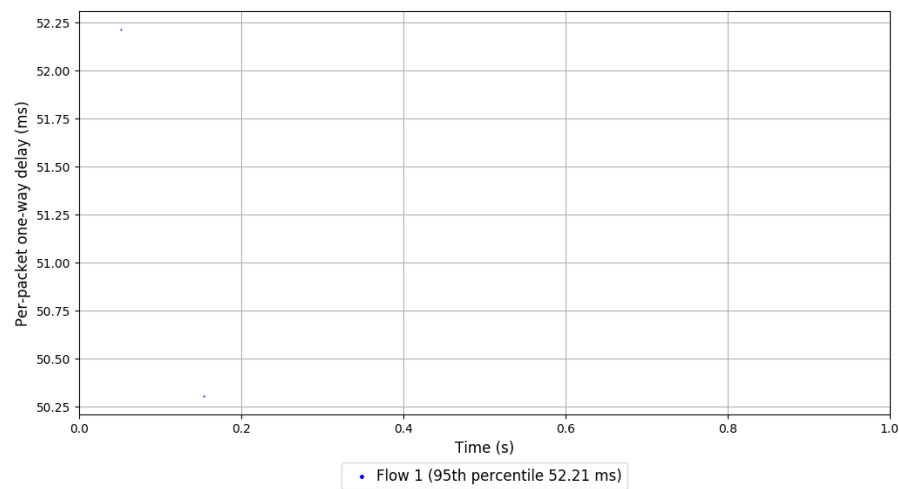
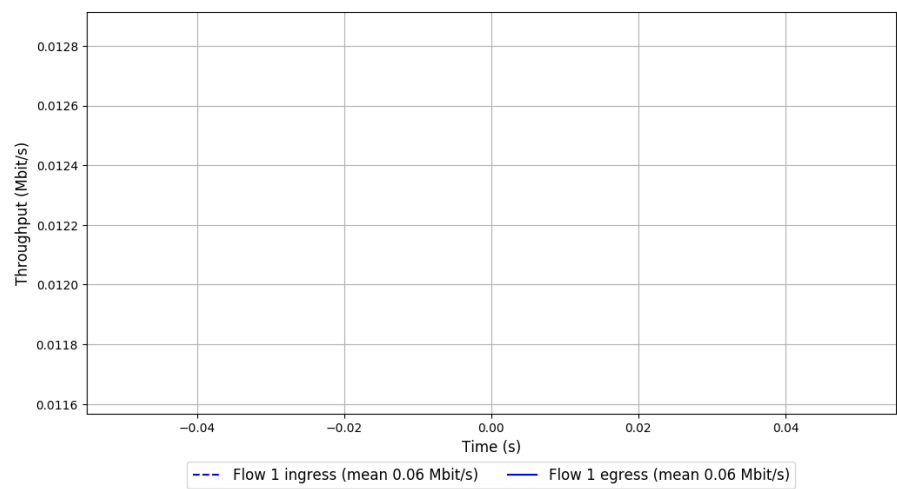


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 01:17:45

End at: 2017-11-16 01:18:15

Run 1: Report of QUIC Cubic — Data Link

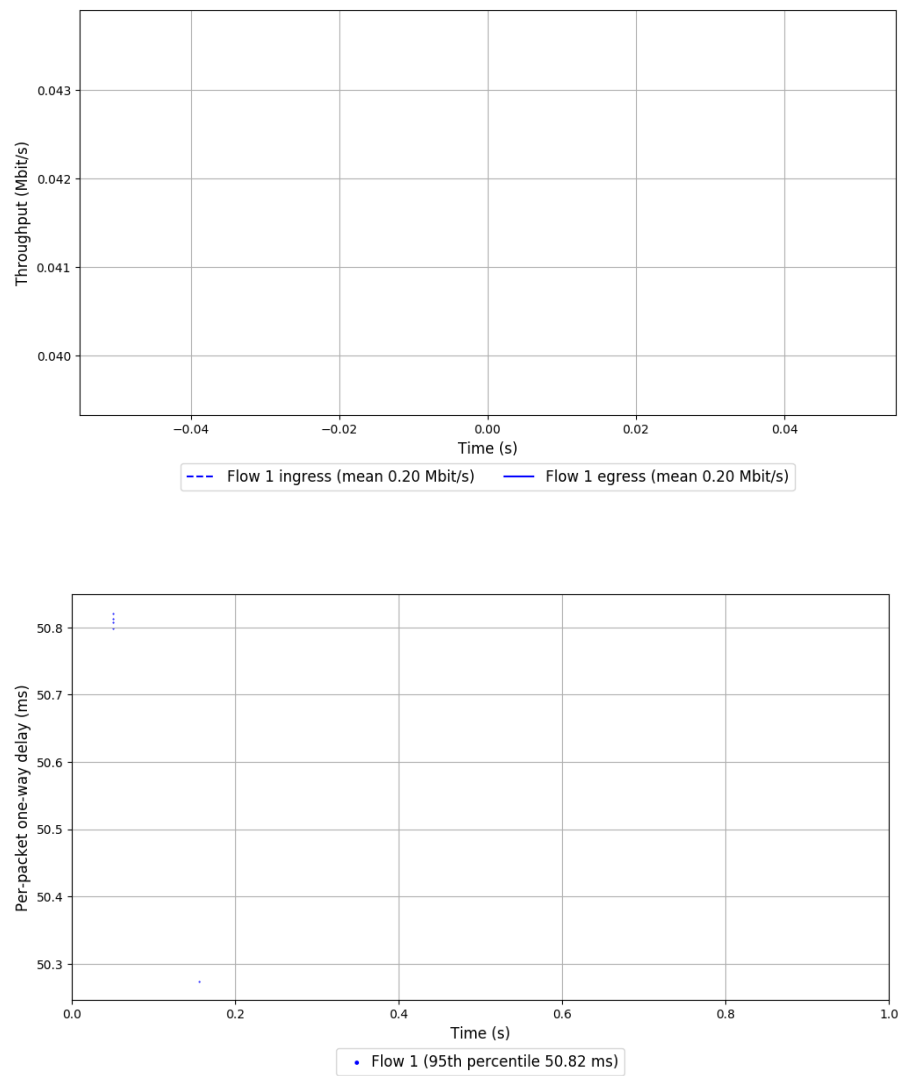


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 01:27:59

End at: 2017-11-16 01:28:29

Run 2: Report of QUIC Cubic — Data Link

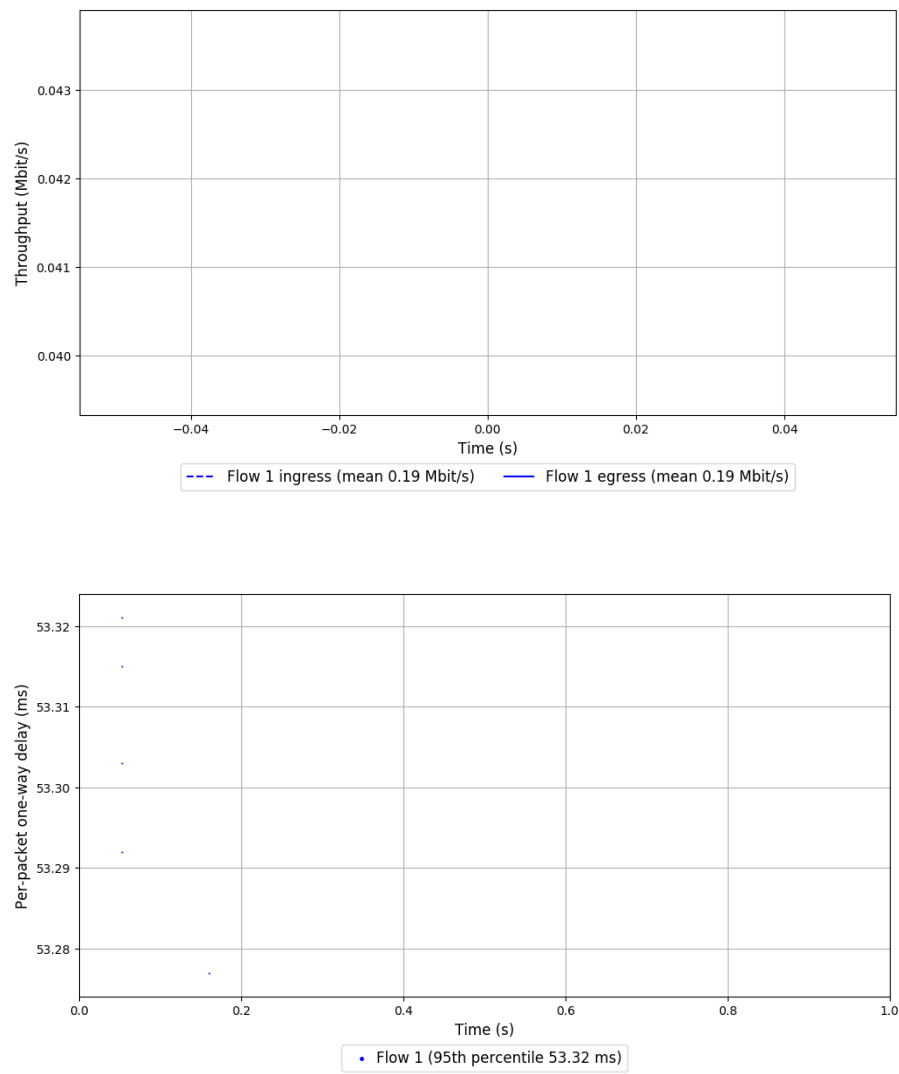


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 01:38:33

End at: 2017-11-16 01:39:03

Run 3: Report of QUIC Cubic — Data Link

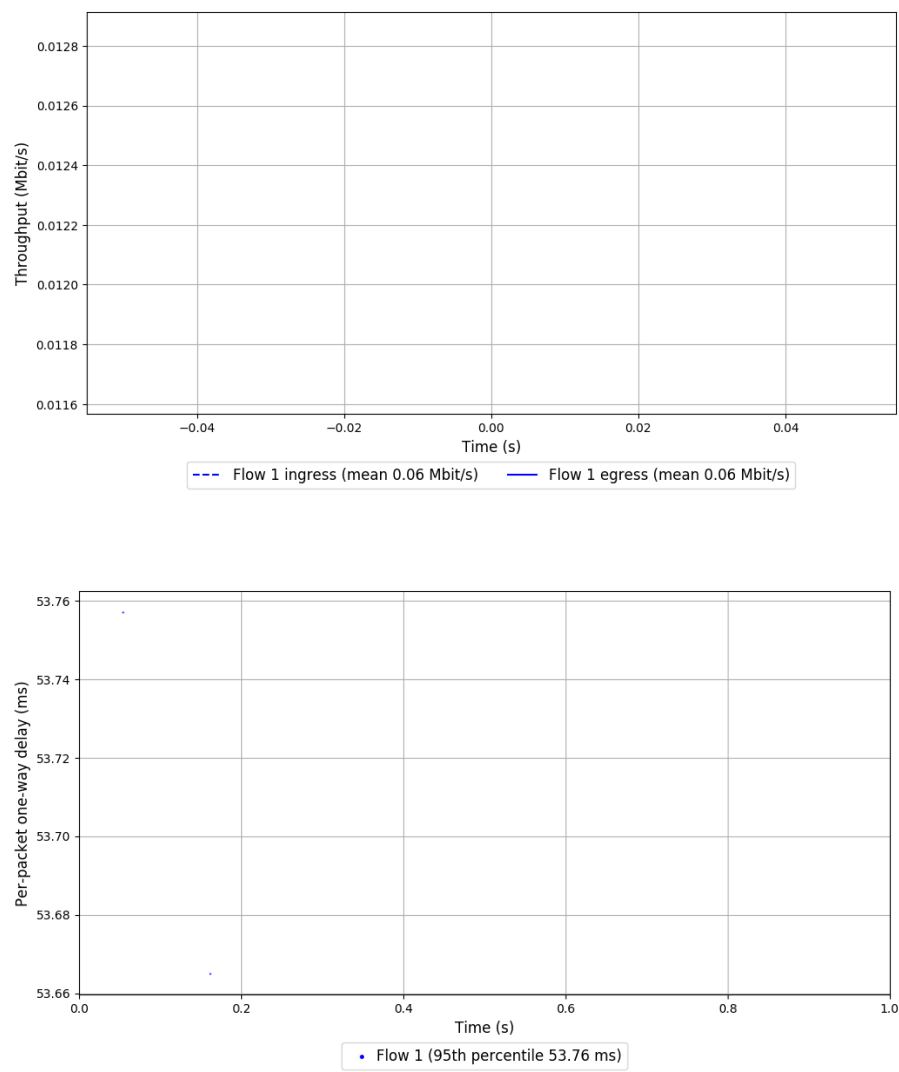


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 01:48:43

End at: 2017-11-16 01:49:13

Run 4: Report of QUIC Cubic — Data Link

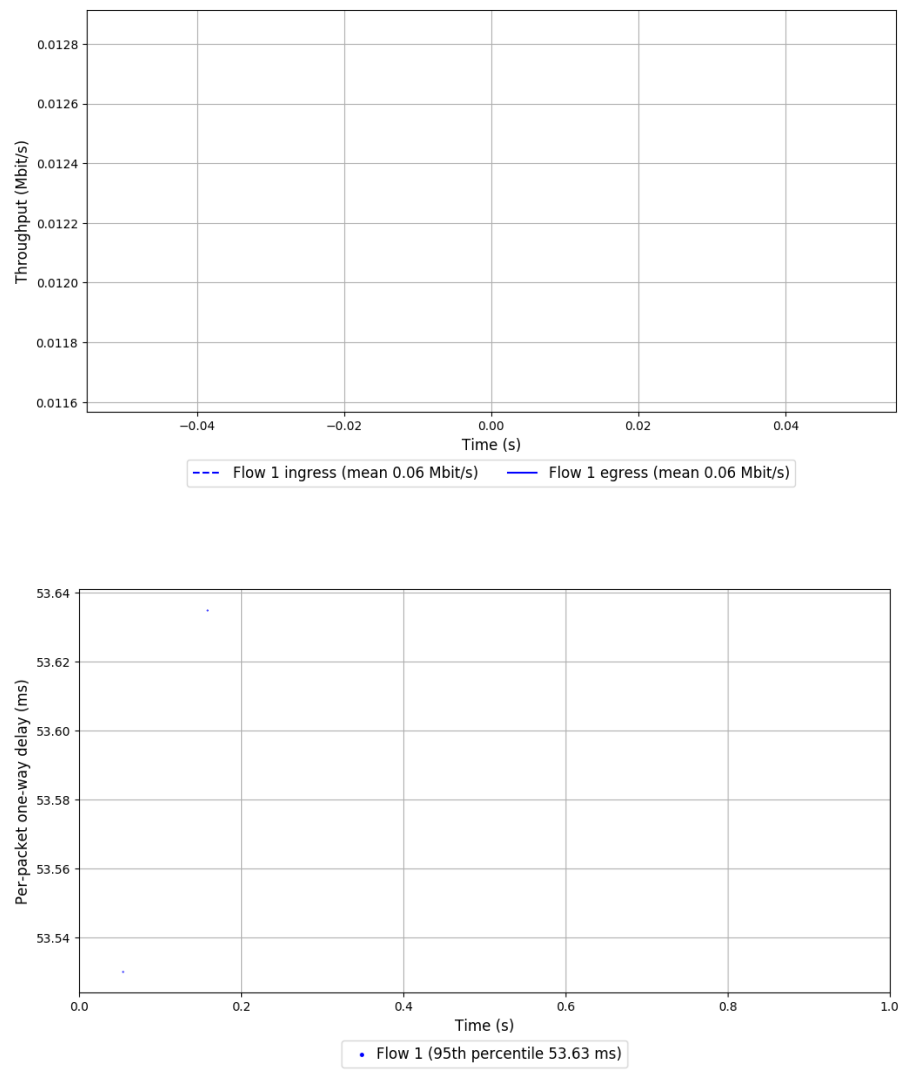


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 01:59:15

End at: 2017-11-16 01:59:45

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 02:09:15

End at: 2017-11-16 02:09:45

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 53.512 ms

Loss rate: 0.60%

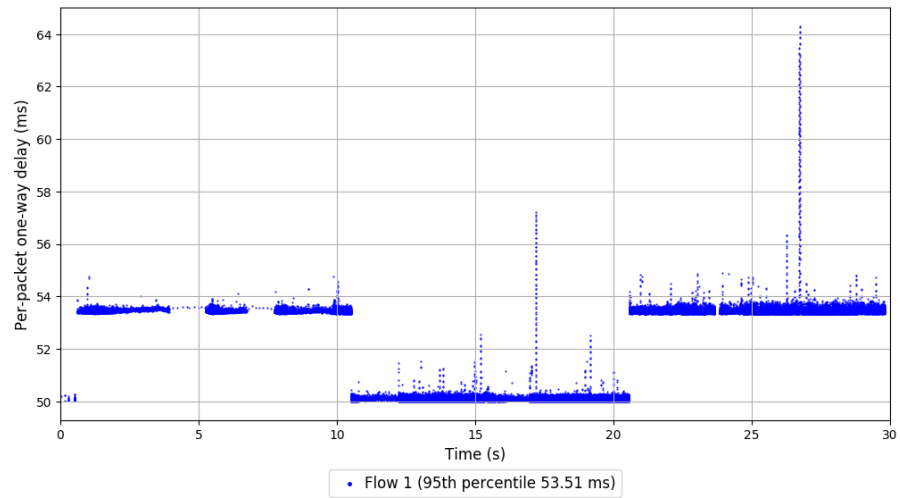
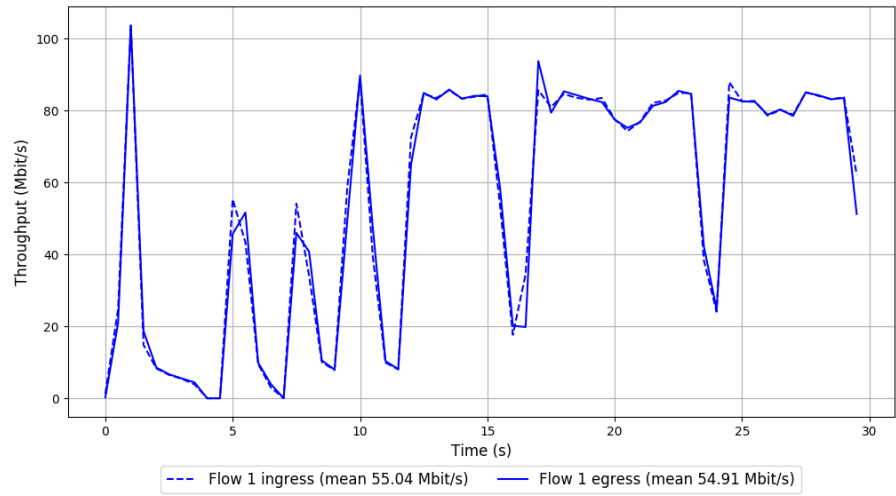
-- Flow 1:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 53.512 ms

Loss rate: 0.60%

Run 6: Report of QUIC Cubic — Data Link

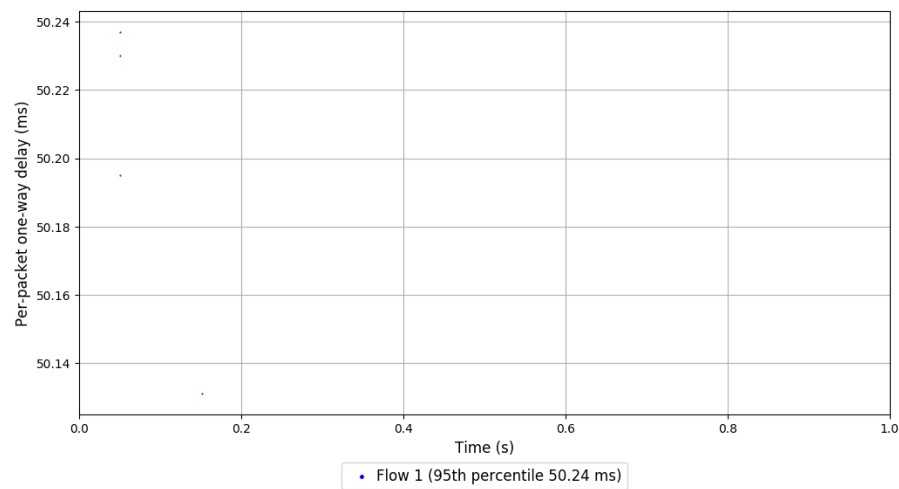
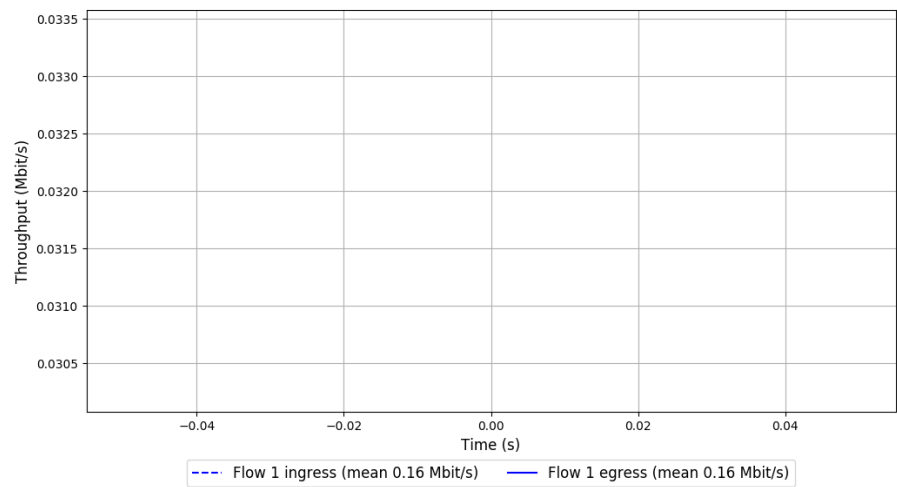


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 02:19:37

End at: 2017-11-16 02:20:07

Run 7: Report of QUIC Cubic — Data Link

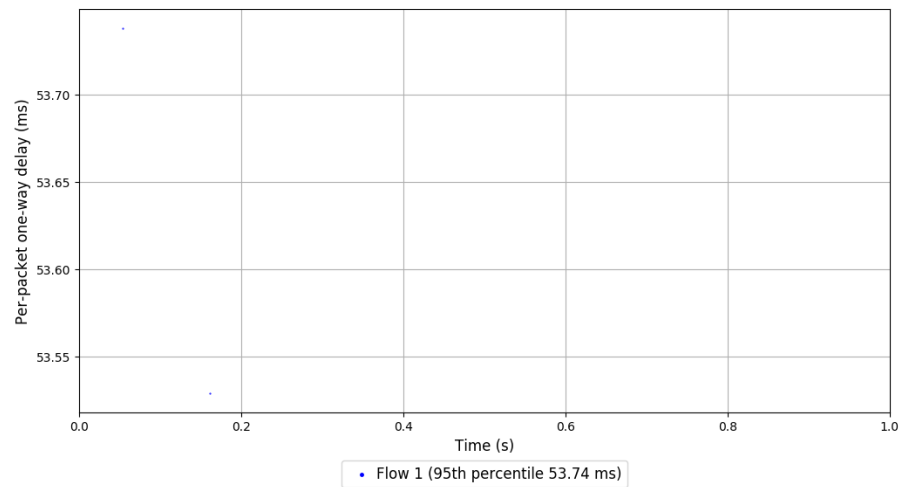
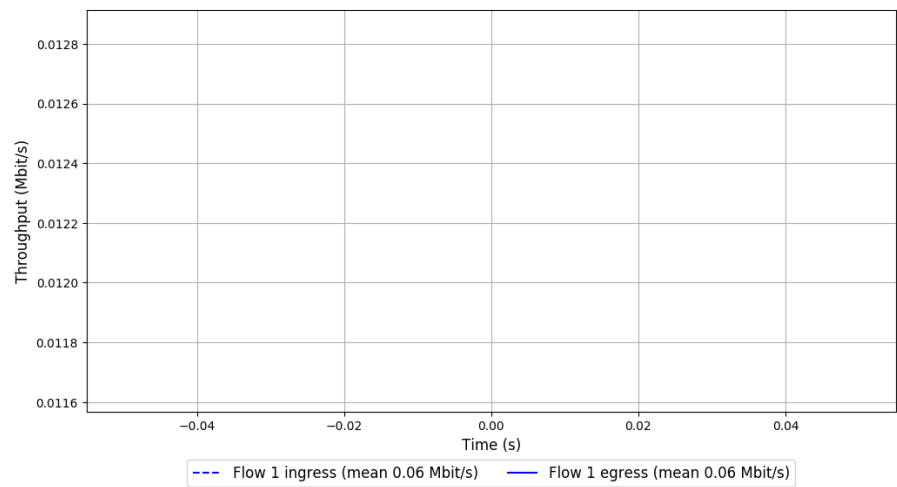


Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 02:29:48

End at: 2017-11-16 02:30:18

Run 8: Report of QUIC Cubic — Data Link

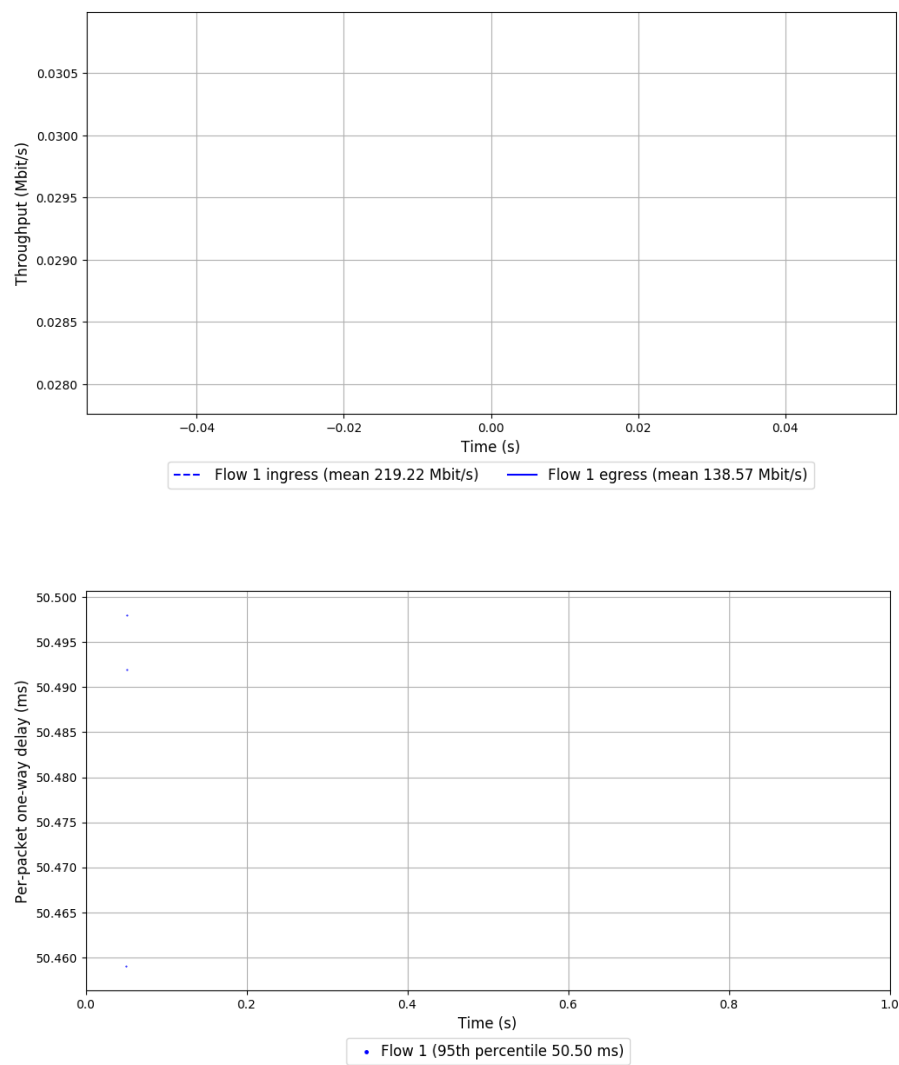


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 02:40:12

End at: 2017-11-16 02:40:42

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 02:50:39

End at: 2017-11-16 02:51:09

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 50.153 ms

Loss rate: 0.90%

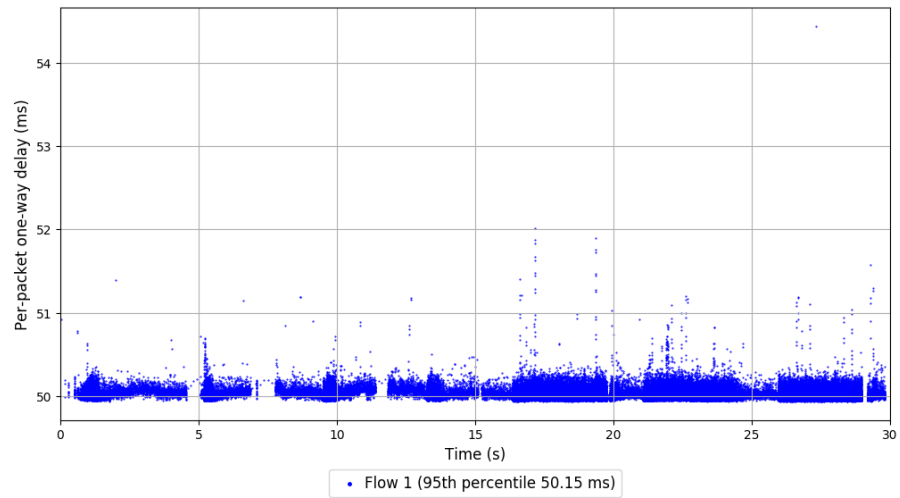
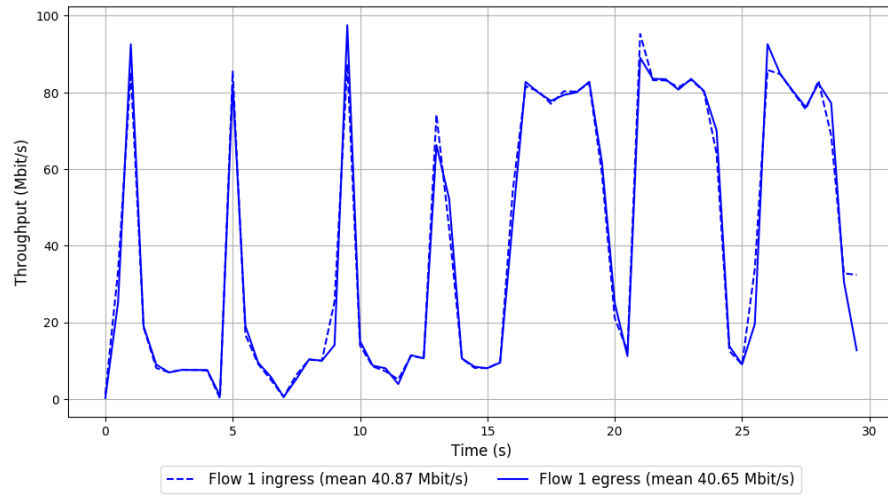
-- Flow 1:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 50.153 ms

Loss rate: 0.90%

Run 10: Report of QUIC Cubic — Data Link

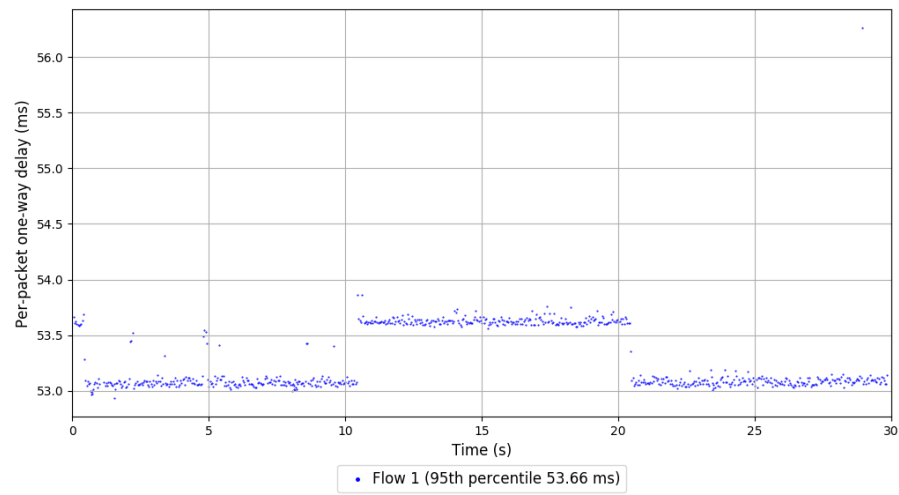
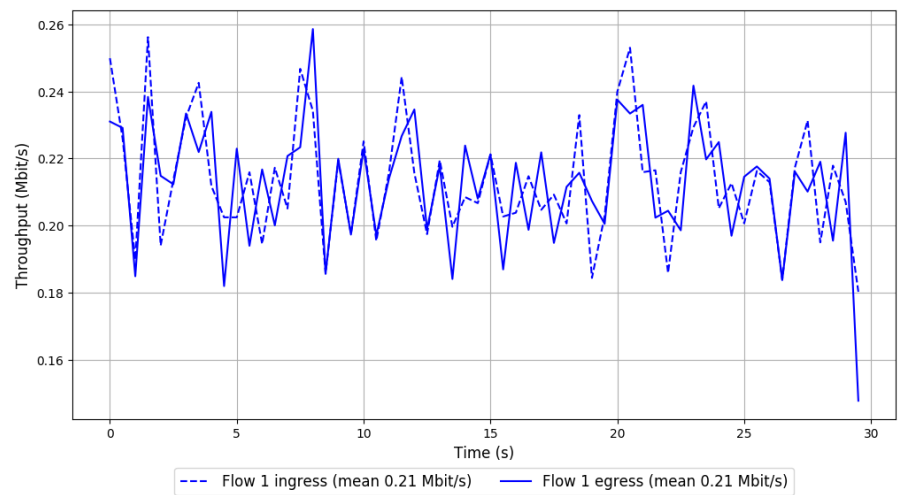


```
Run 1: Statistics of SCReAM

Start at: 2017-11-16 01:10:05
End at: 2017-11-16 01:10:35

# Below is generated by plot.py at 2017-11-16 05:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

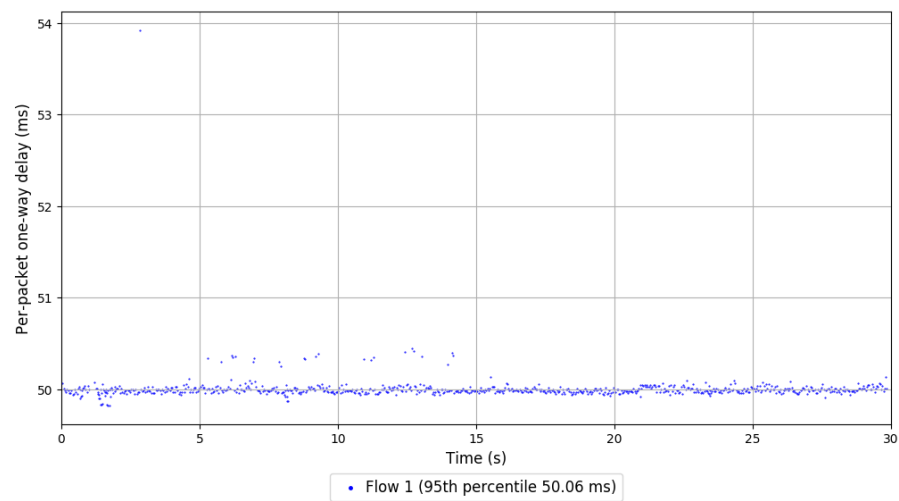
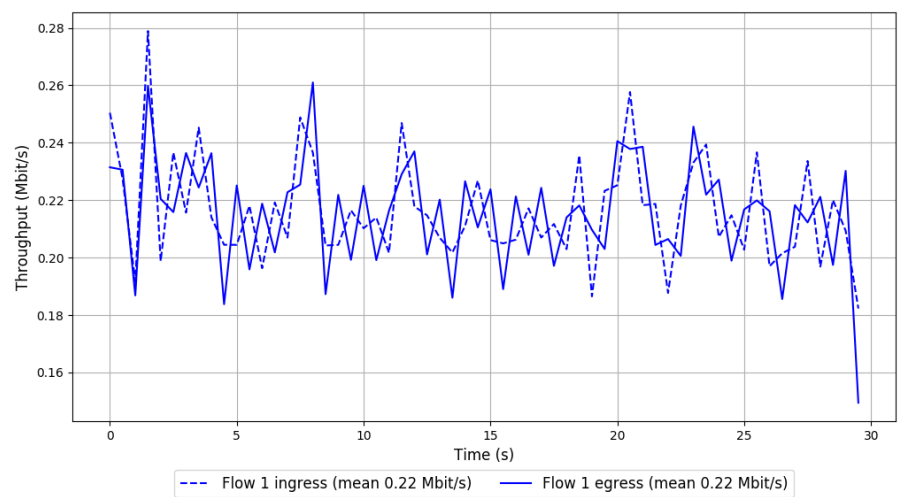


```
Run 2: Statistics of SCReAM

Start at: 2017-11-16 01:20:31
End at: 2017-11-16 01:21:01

# Below is generated by plot.py at 2017-11-16 05:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.063 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.063 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-16 01:30:44

End at: 2017-11-16 01:31:14

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.72%

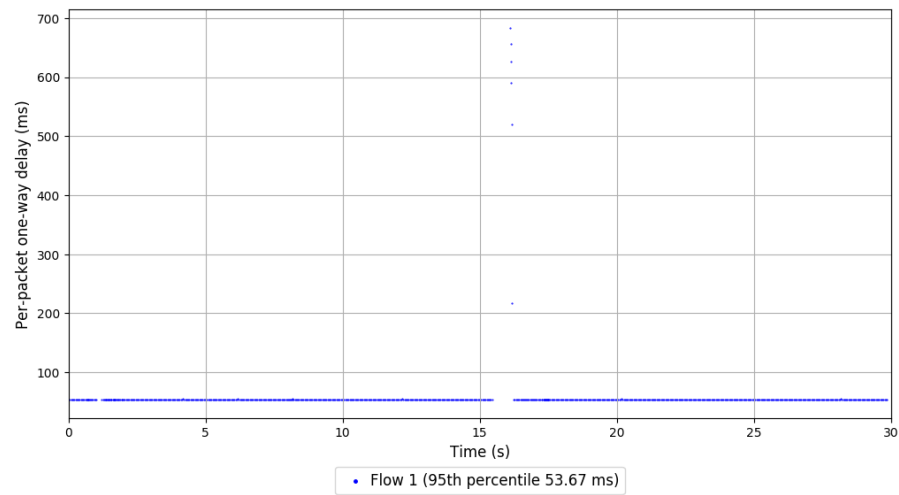
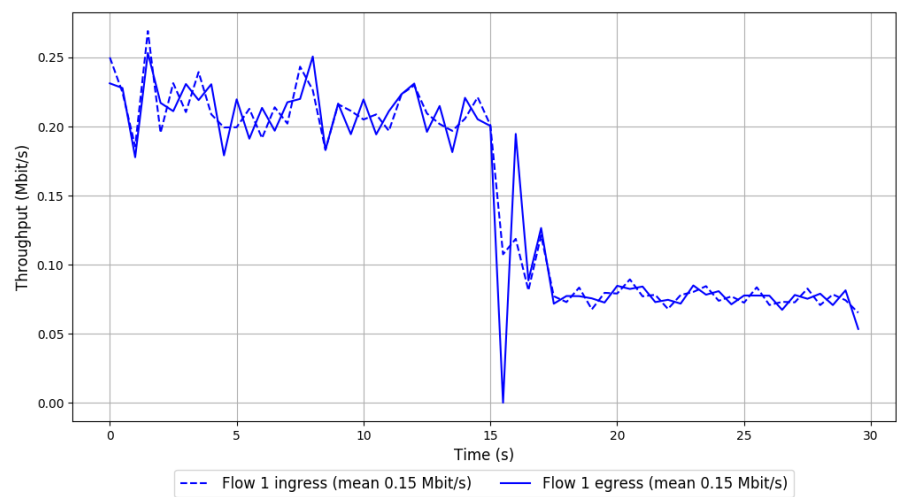
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.72%

Run 3: Report of SReAM — Data Link

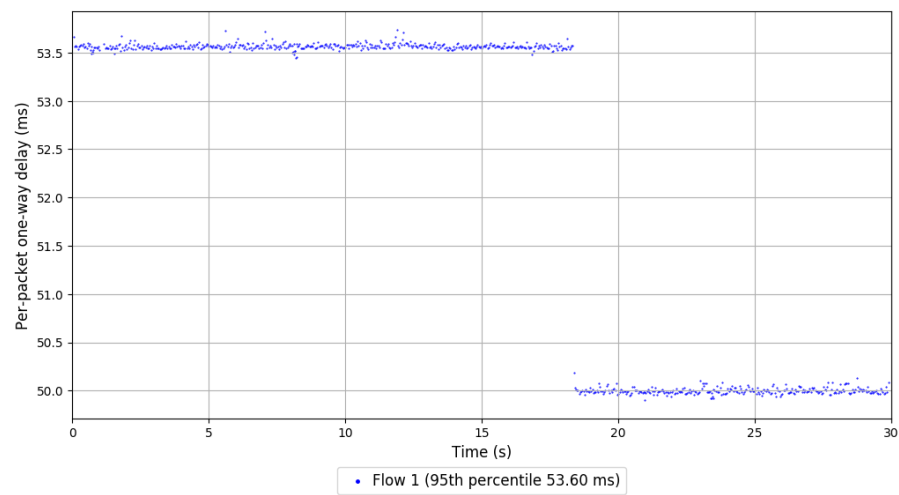
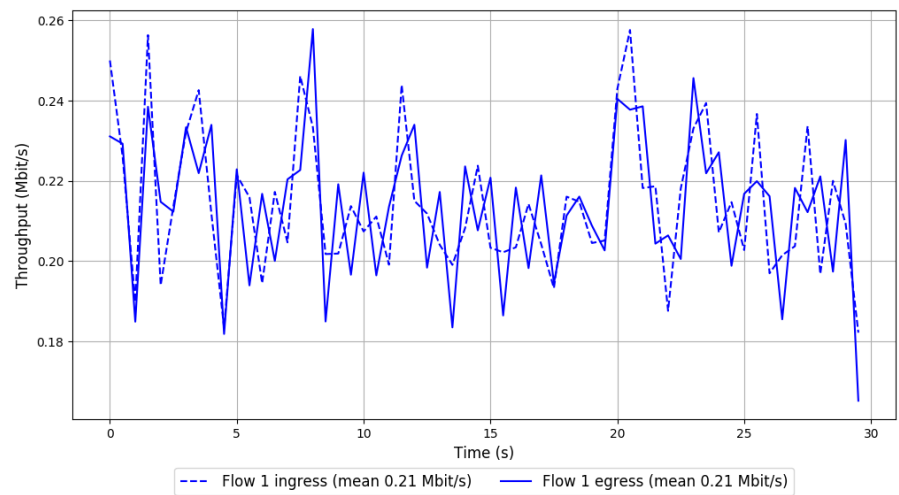


```
Run 4: Statistics of SCReAM

Start at: 2017-11-16 01:41:17
End at: 2017-11-16 01:41:47

# Below is generated by plot.py at 2017-11-16 05:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.26%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-16 01:51:29

End at: 2017-11-16 01:51:59

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 0.38%

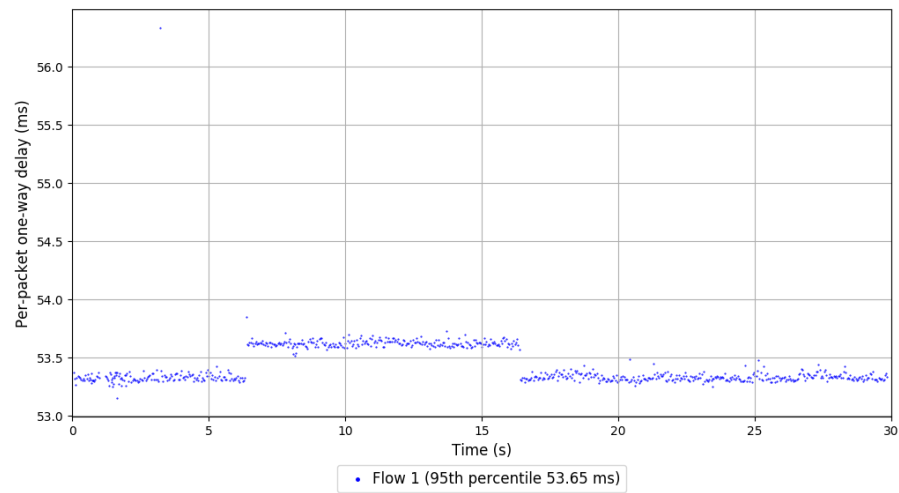
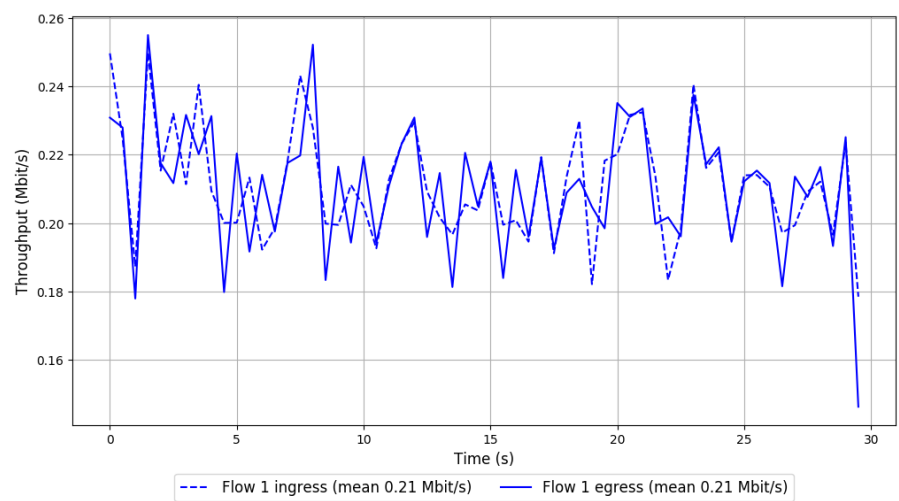
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-16 02:02:00

End at: 2017-11-16 02:02:30

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.326 ms

Loss rate: 0.38%

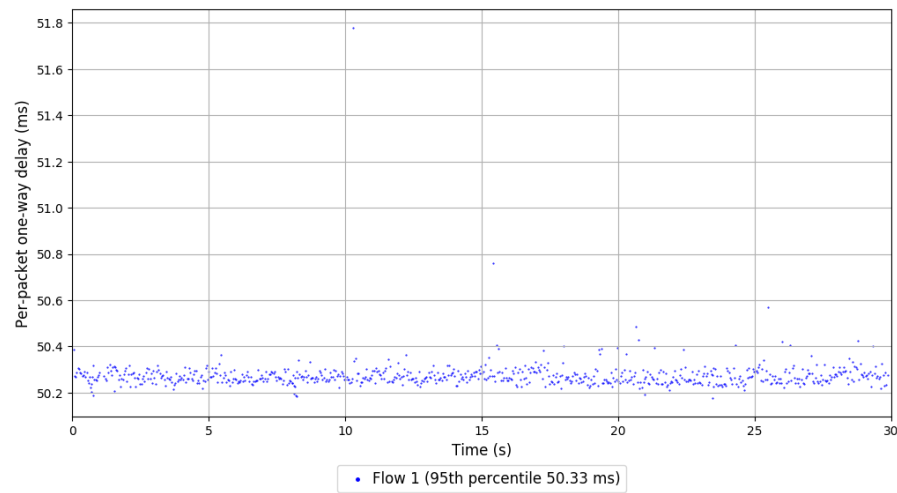
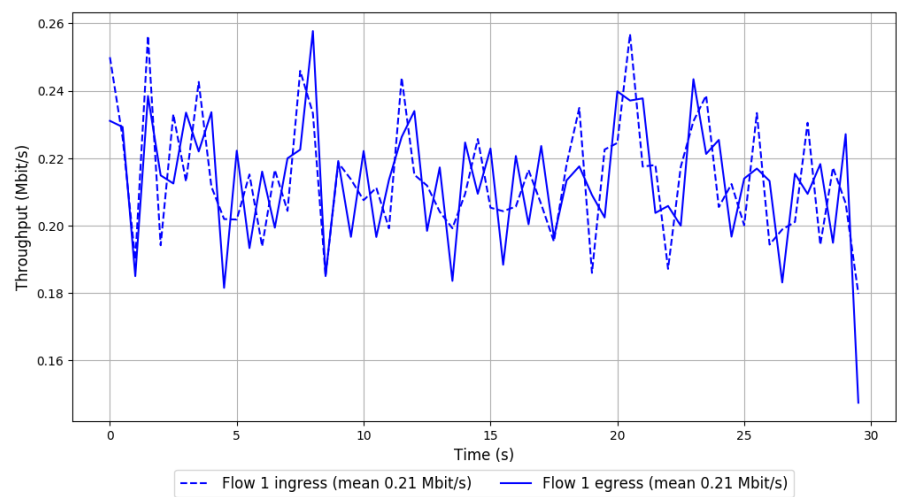
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.326 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link

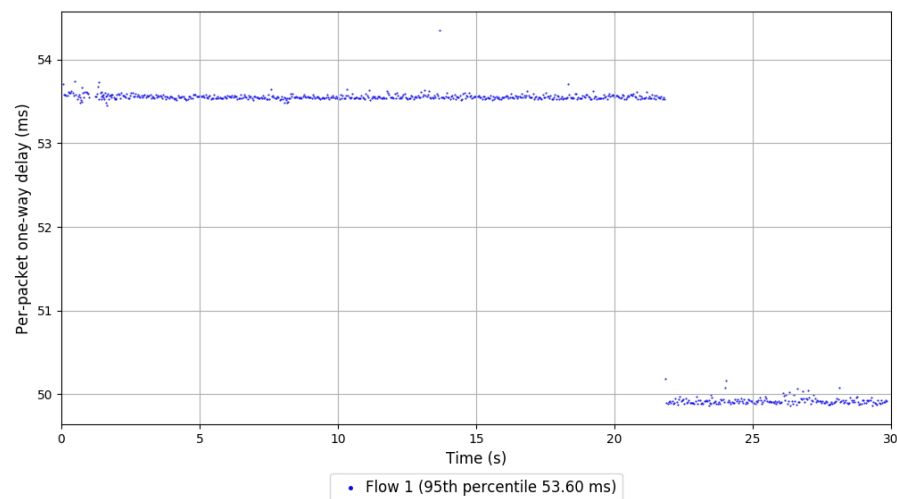
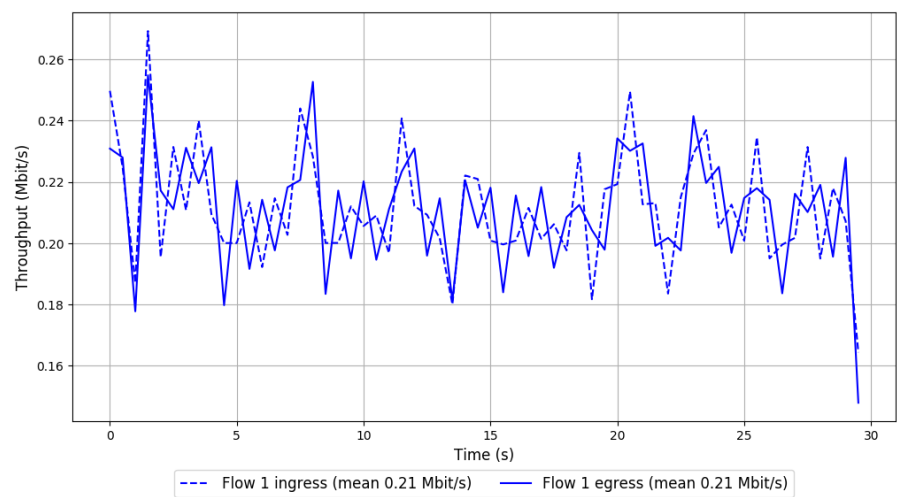


```
Run 7: Statistics of SCReAM

Start at: 2017-11-16 02:12:04
End at: 2017-11-16 02:12:34

# Below is generated by plot.py at 2017-11-16 05:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.596 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.596 ms
Loss rate: 0.26%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-16 02:22:22

End at: 2017-11-16 02:22:52

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.124 ms

Loss rate: 0.38%

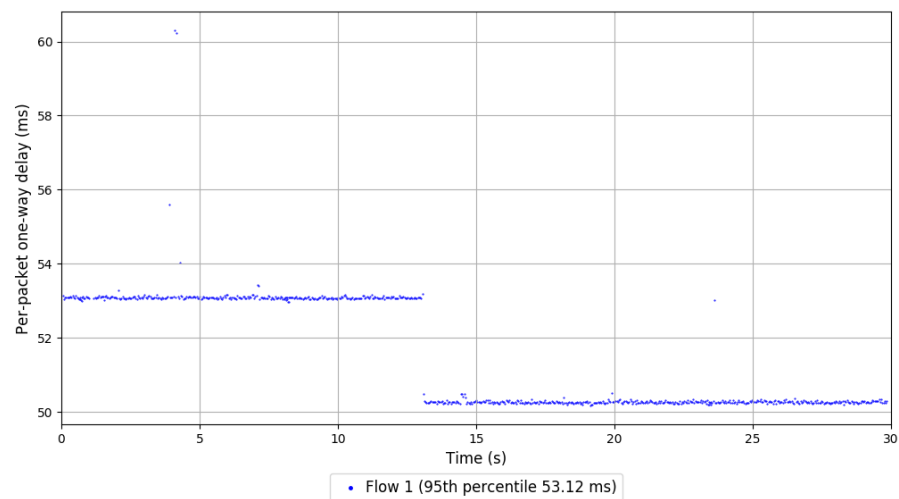
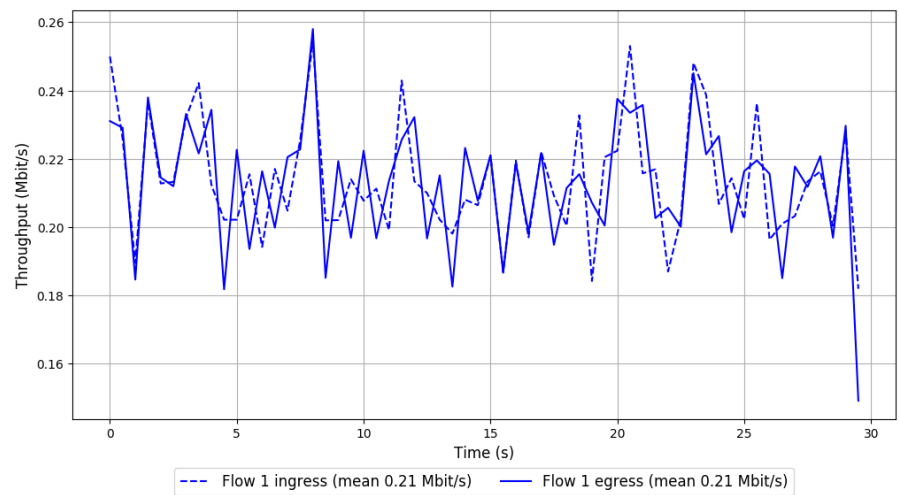
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.124 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-16 02:32:34

End at: 2017-11-16 02:33:04

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.056 ms

Loss rate: 0.38%

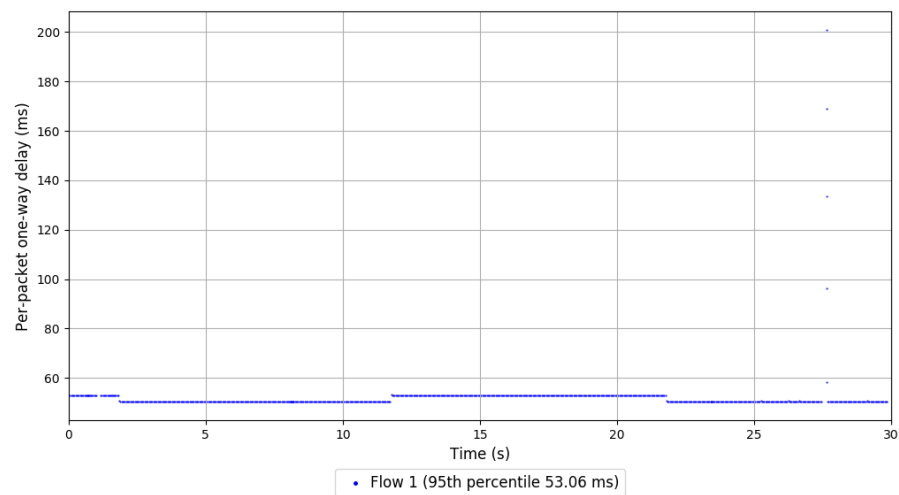
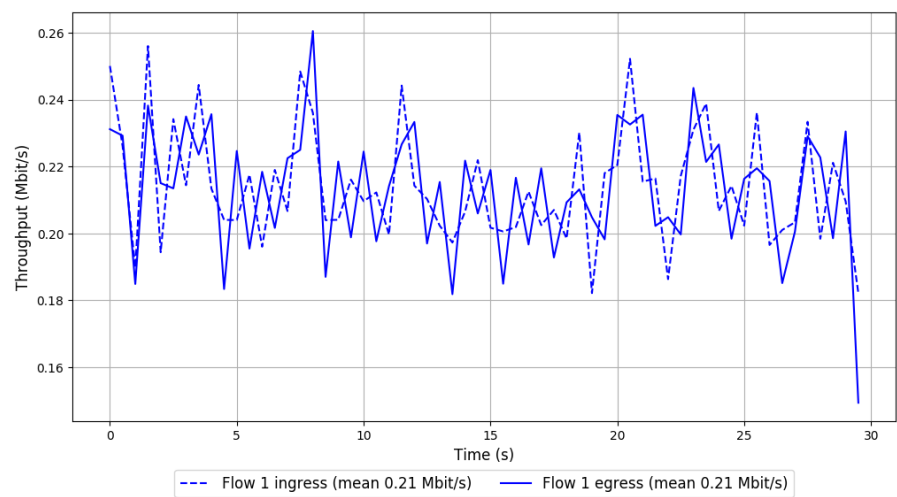
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.056 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-16 02:42:59

End at: 2017-11-16 02:43:29

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.38%

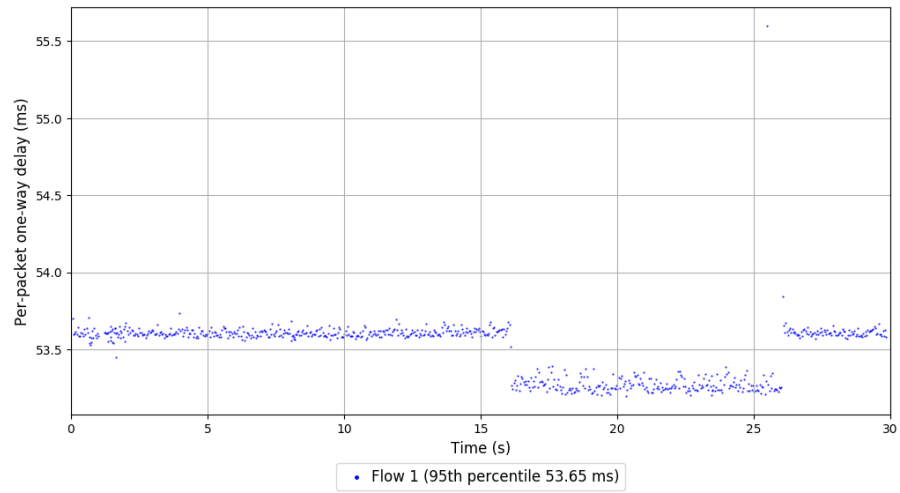
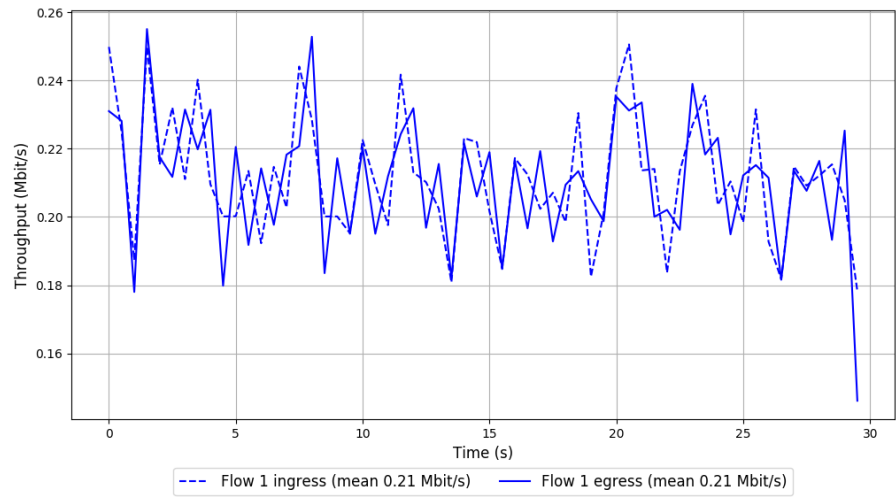
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

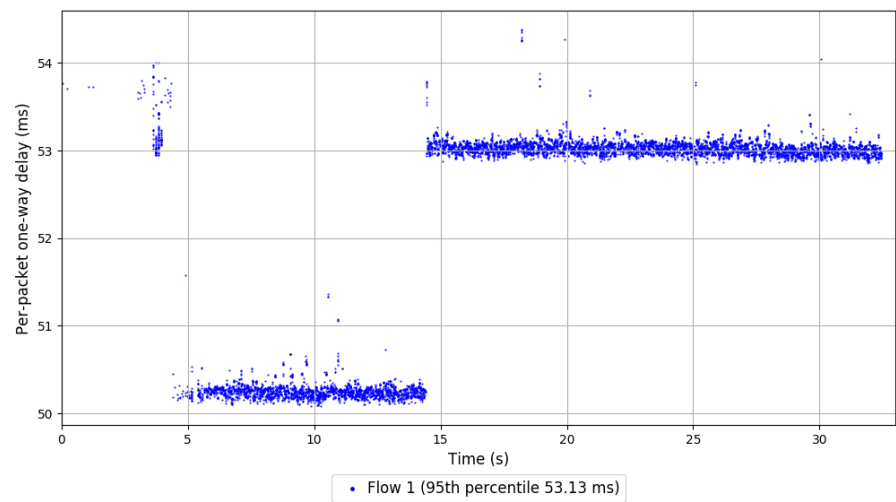
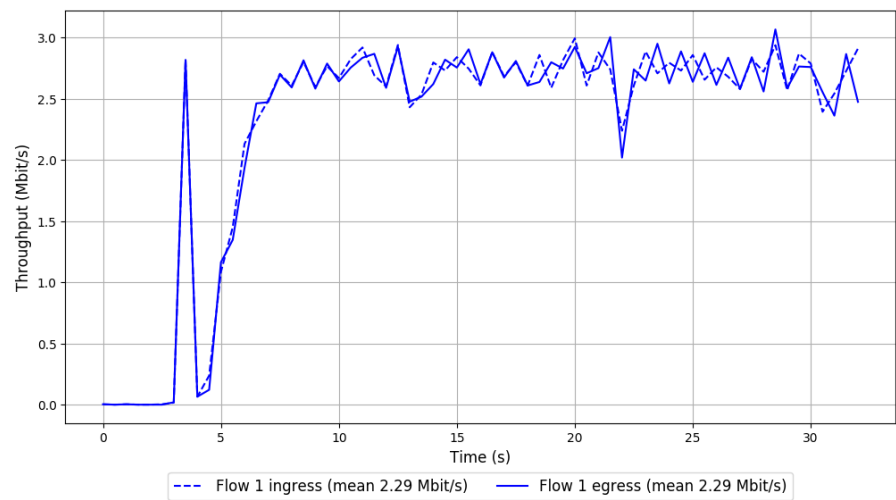


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-16 01:14:44
End at: 2017-11-16 01:15:14

# Below is generated by plot.py at 2017-11-16 05:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 53.133 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 53.133 ms
Loss rate: 0.44%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 01:24:59

End at: 2017-11-16 01:25:29

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.377 ms

Loss rate: 0.30%

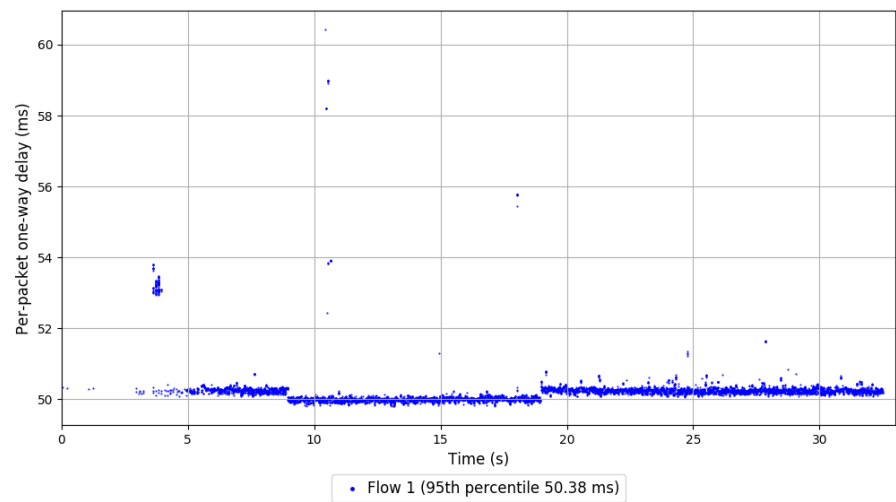
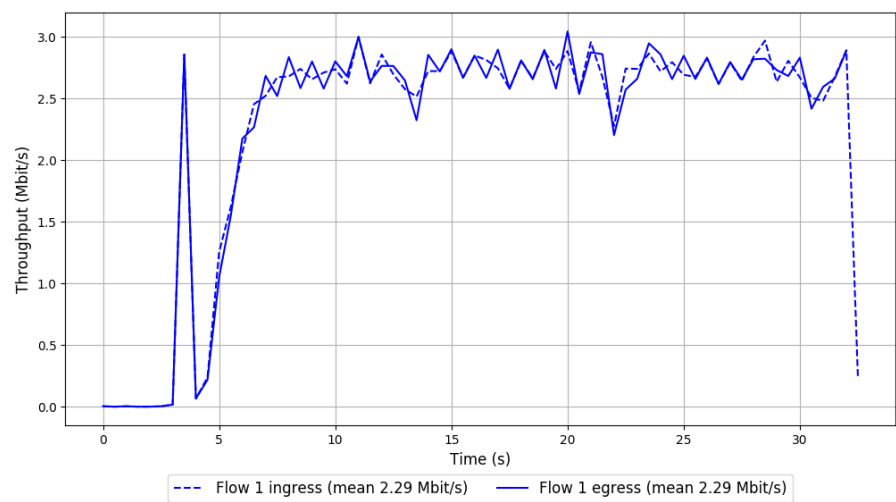
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.377 ms

Loss rate: 0.30%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 01:35:32

End at: 2017-11-16 01:36:02

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.74%

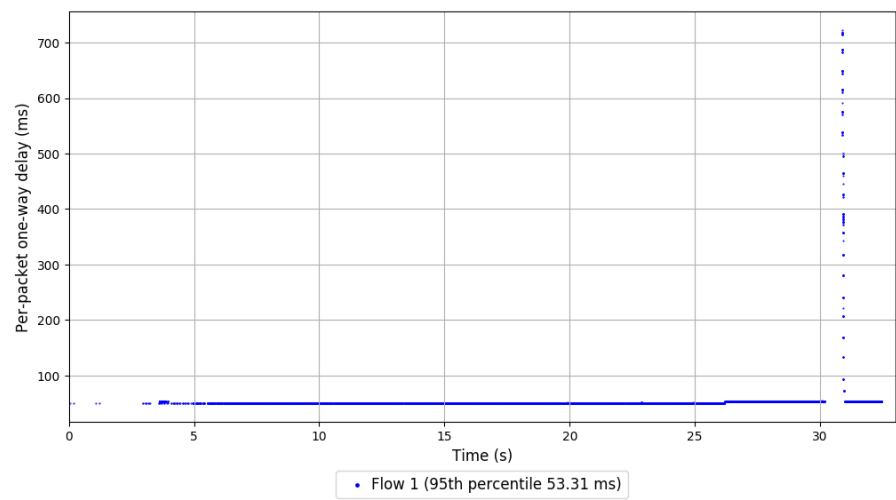
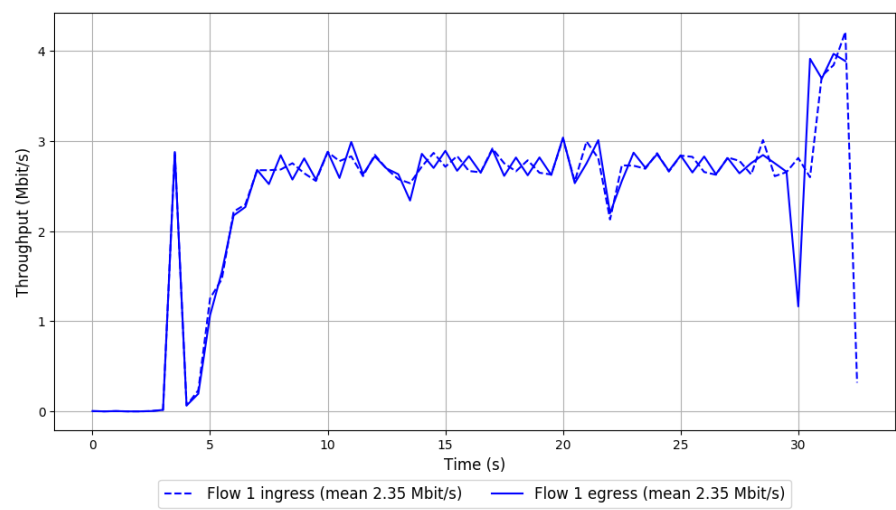
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.74%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-16 01:45:41

End at: 2017-11-16 01:46:11

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.635 ms

Loss rate: 0.30%

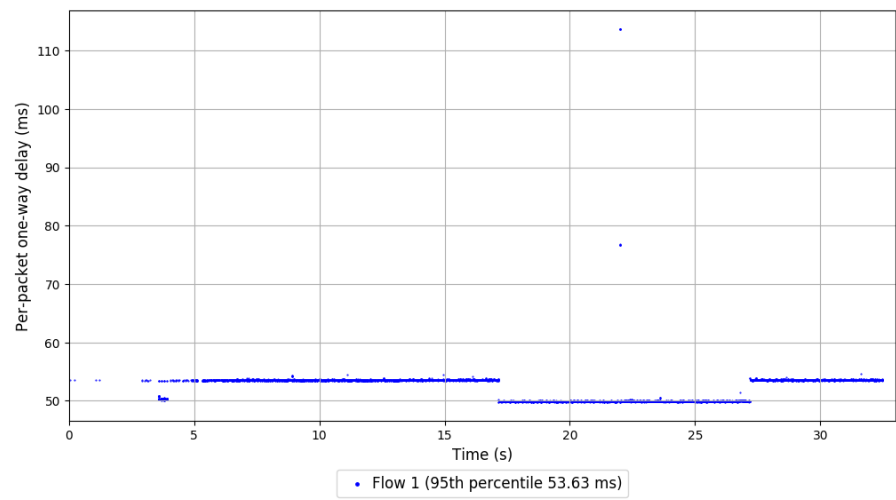
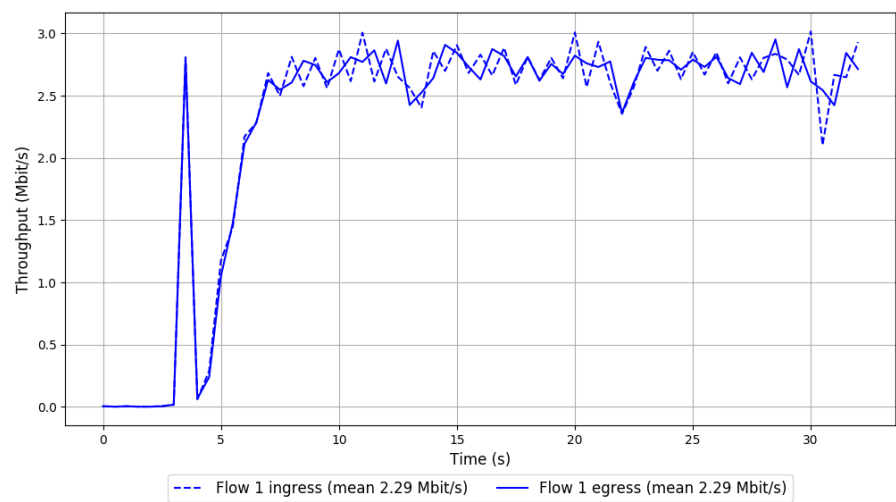
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.635 ms

Loss rate: 0.30%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-16 01:56:12

End at: 2017-11-16 01:56:42

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.319 ms

Loss rate: 0.34%

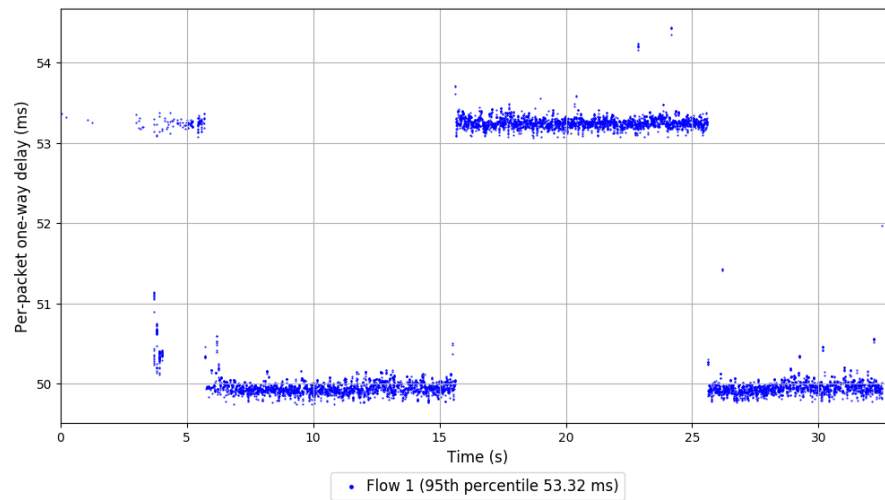
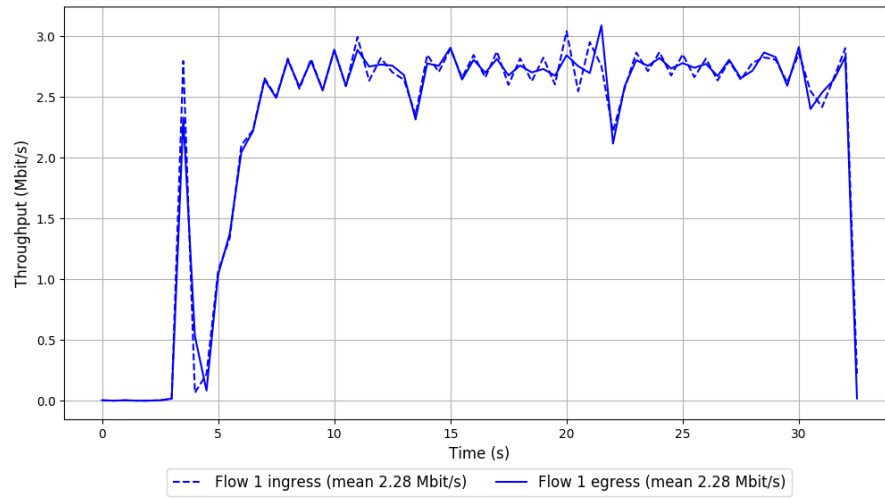
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.319 ms

Loss rate: 0.34%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-16 02:06:13

End at: 2017-11-16 02:06:44

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 53.389 ms

Loss rate: 0.45%

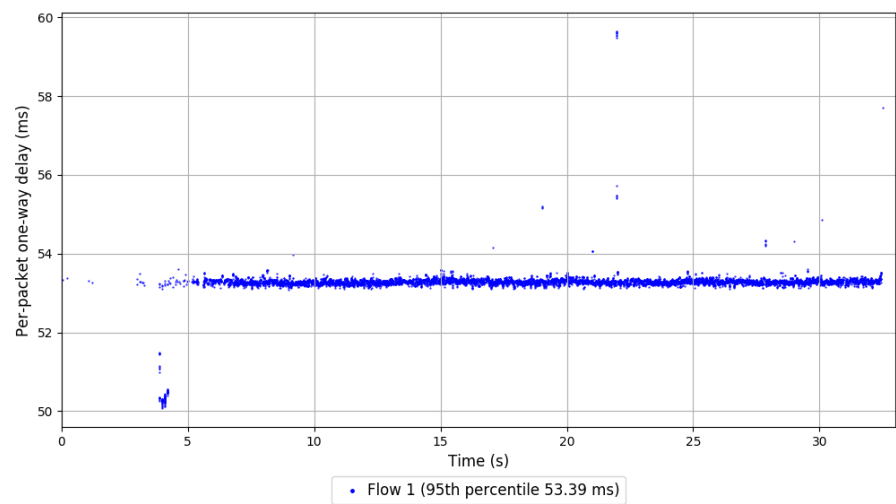
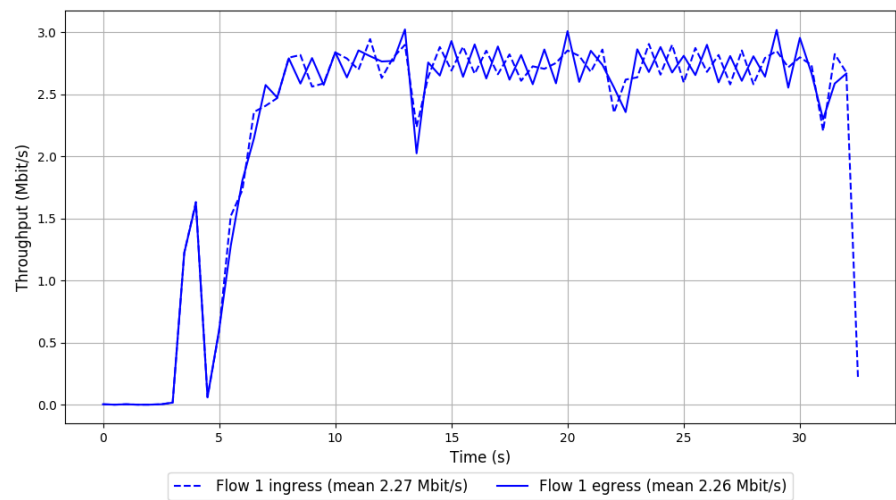
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 53.389 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-16 02:16:35

End at: 2017-11-16 02:17:05

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.46%

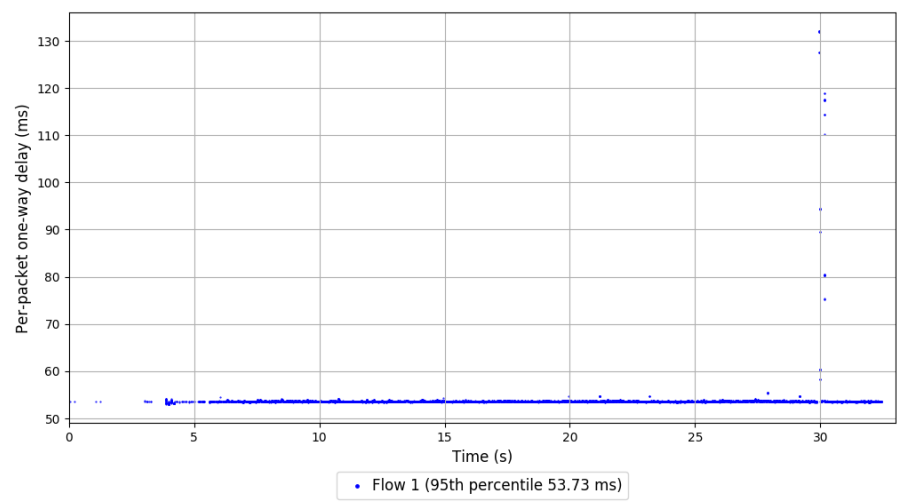
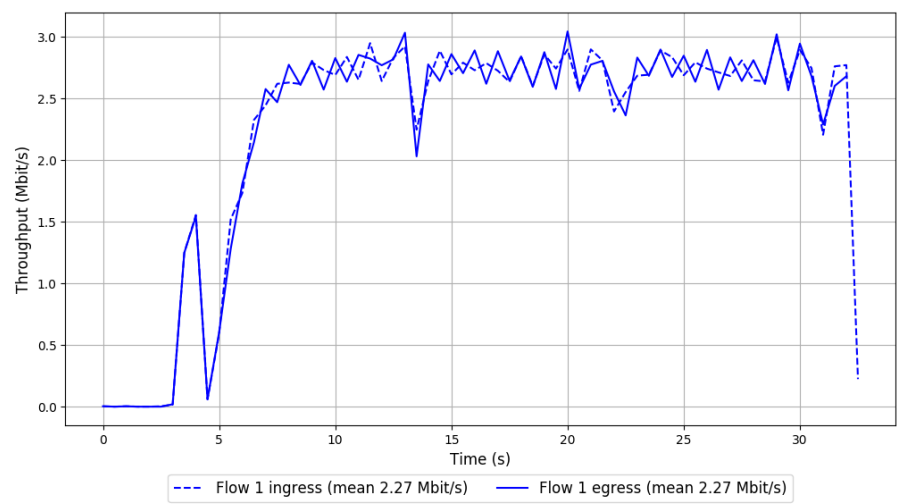
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.46%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 02:26:46

End at: 2017-11-16 02:27:16

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.374 ms

Loss rate: 0.46%

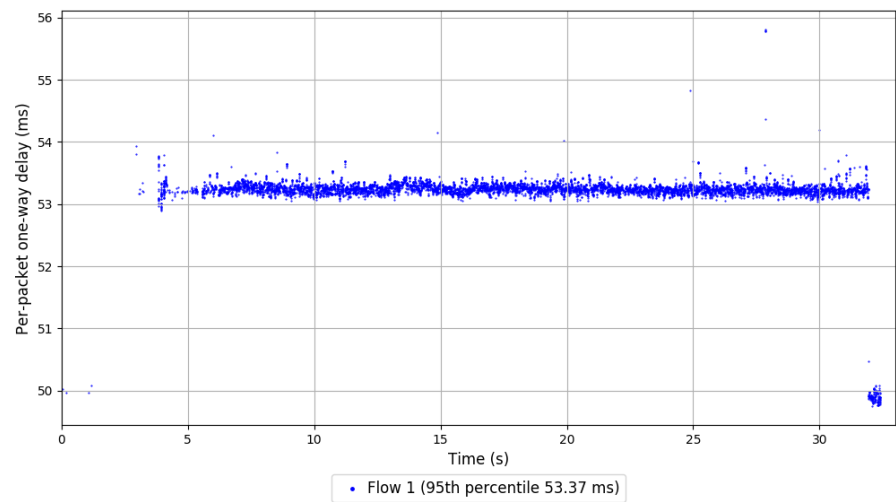
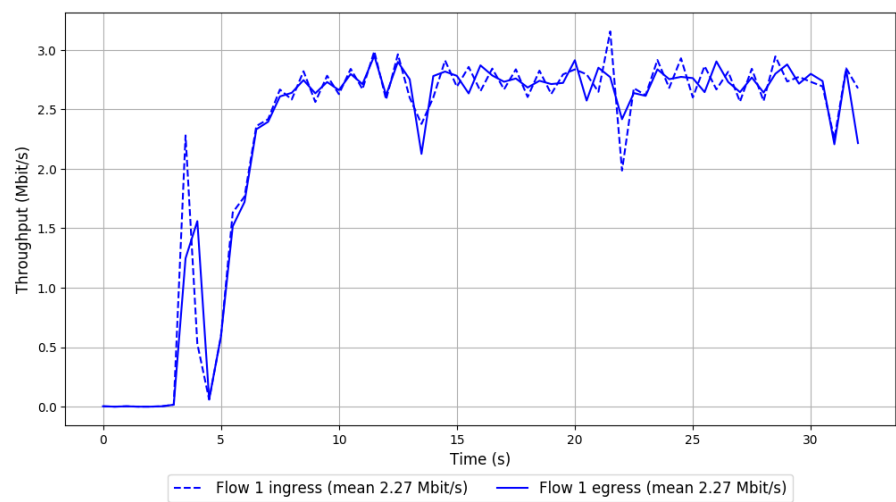
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.374 ms

Loss rate: 0.46%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 02:37:09

End at: 2017-11-16 02:37:39

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.359 ms

Loss rate: 0.30%

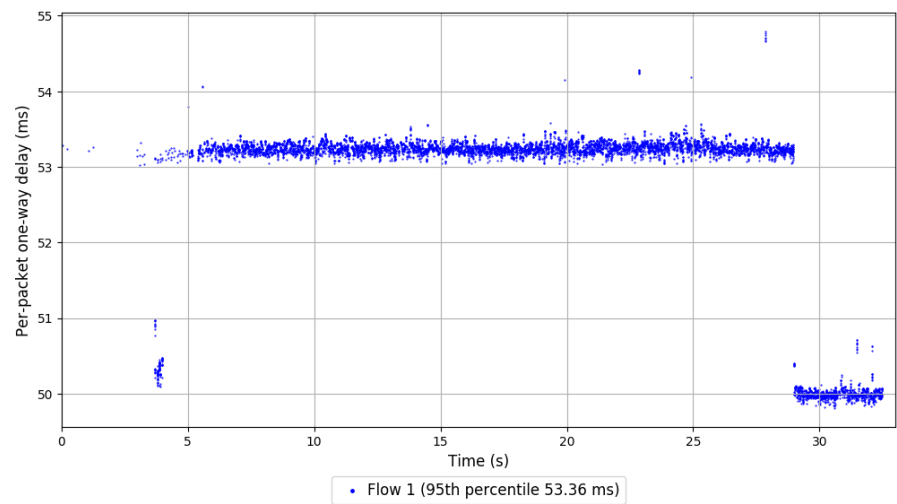
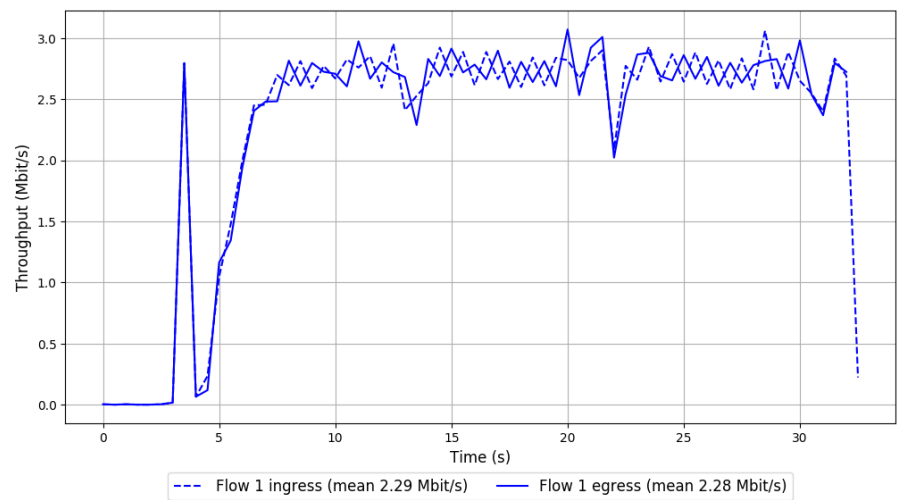
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.359 ms

Loss rate: 0.30%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 02:47:36

End at: 2017-11-16 02:48:06

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.34%

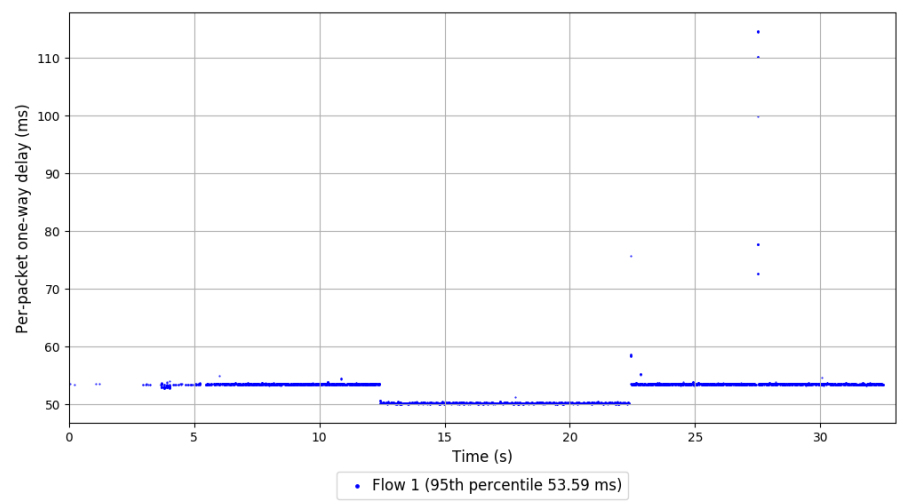
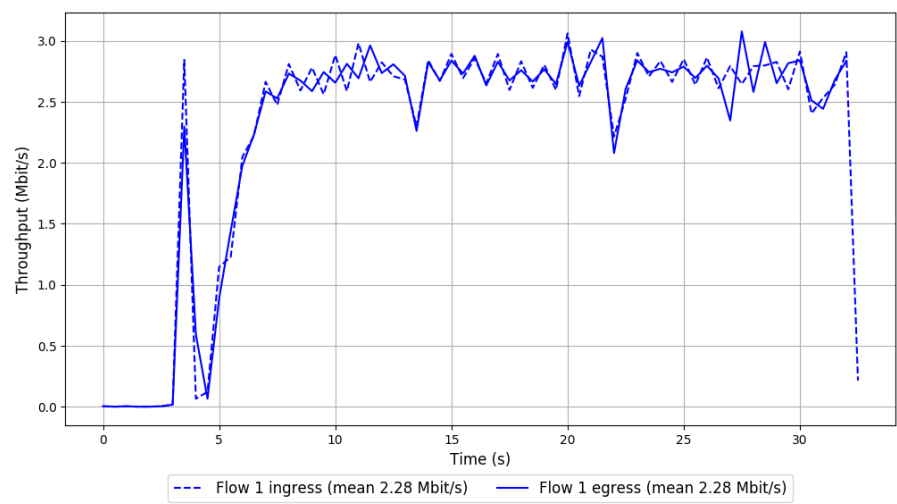
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.34%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-16 01:09:27

End at: 2017-11-16 01:09:57

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.36%

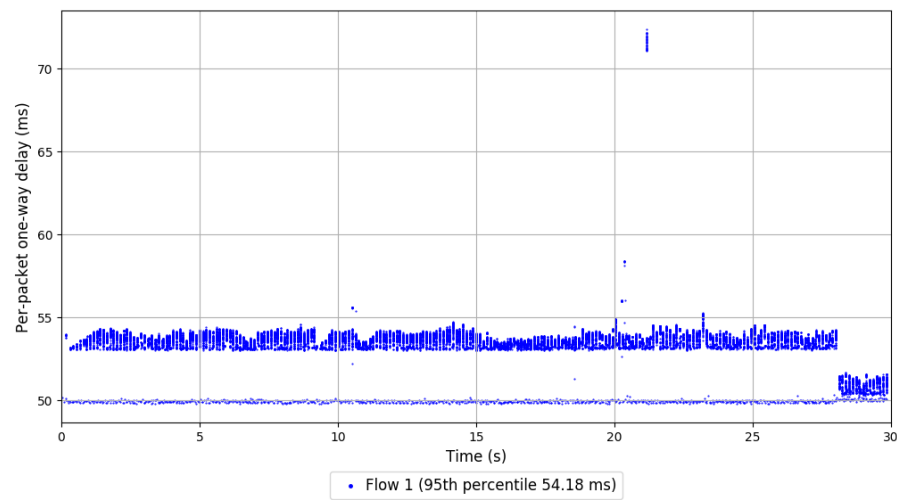
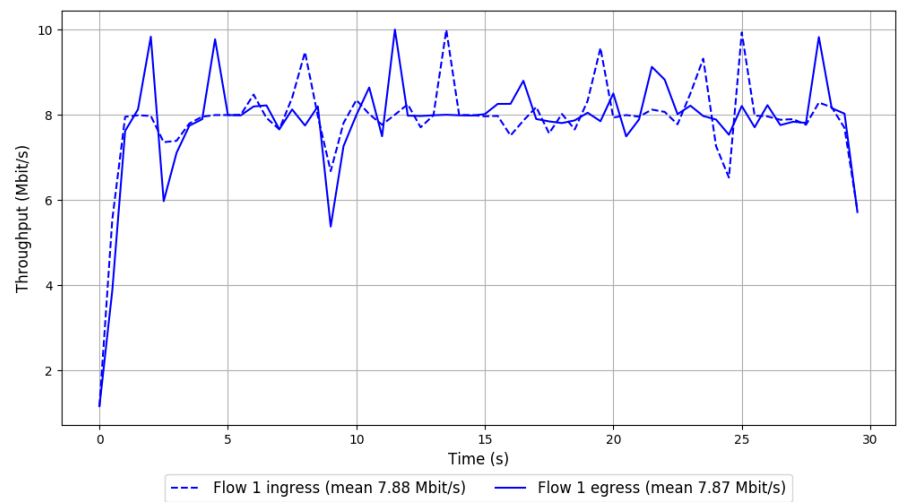
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.36%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-16 01:19:54

End at: 2017-11-16 01:20:24

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.141 ms

Loss rate: 0.06%

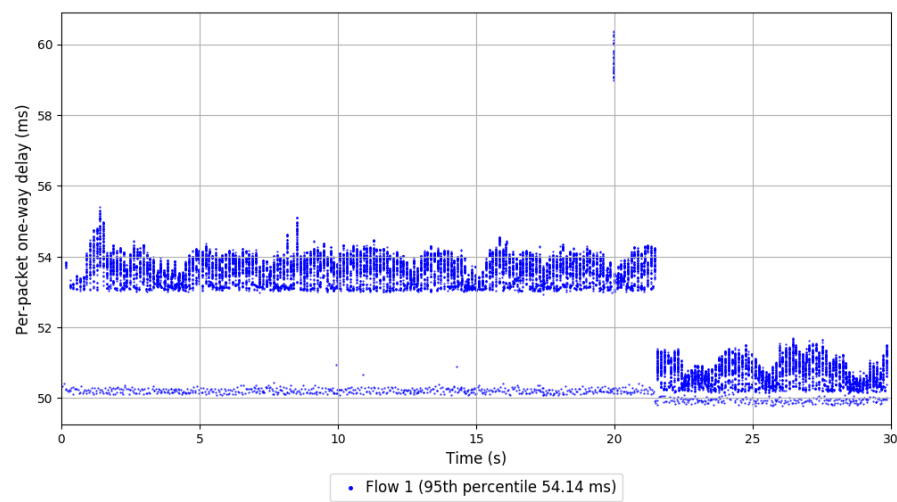
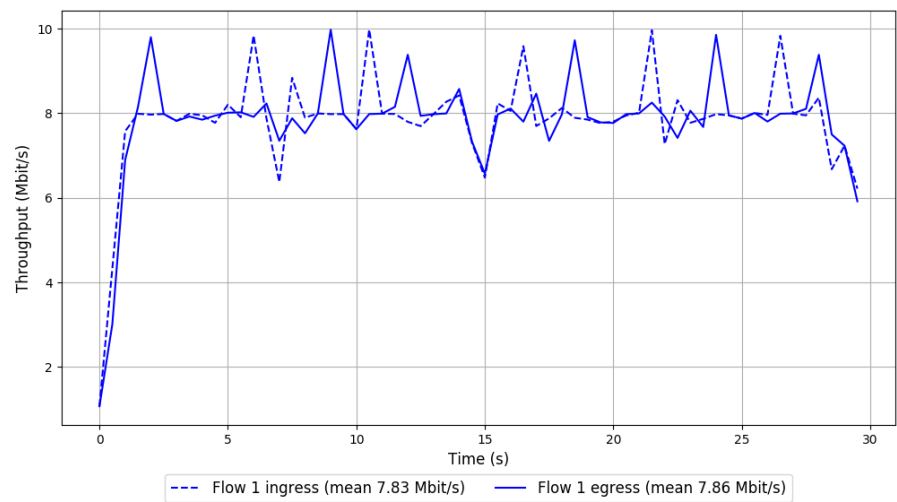
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.141 ms

Loss rate: 0.06%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-16 01:30:06

End at: 2017-11-16 01:30:36

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.053 ms

Loss rate: 0.42%

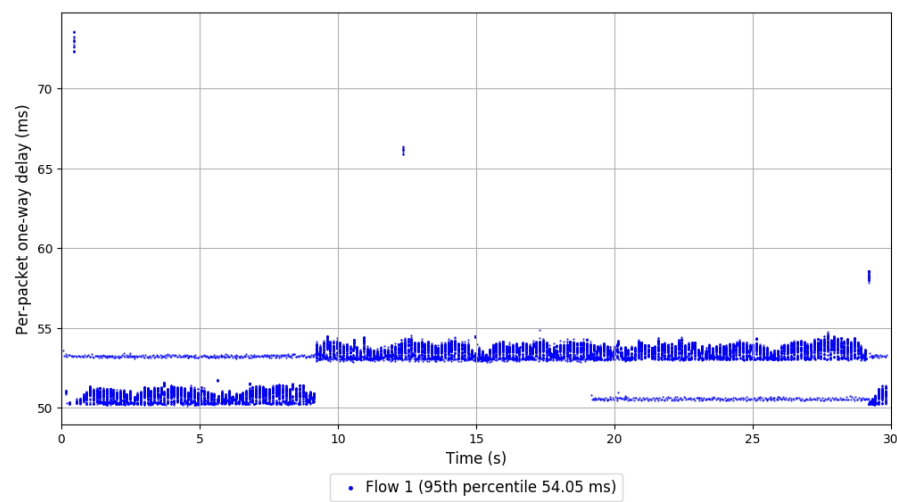
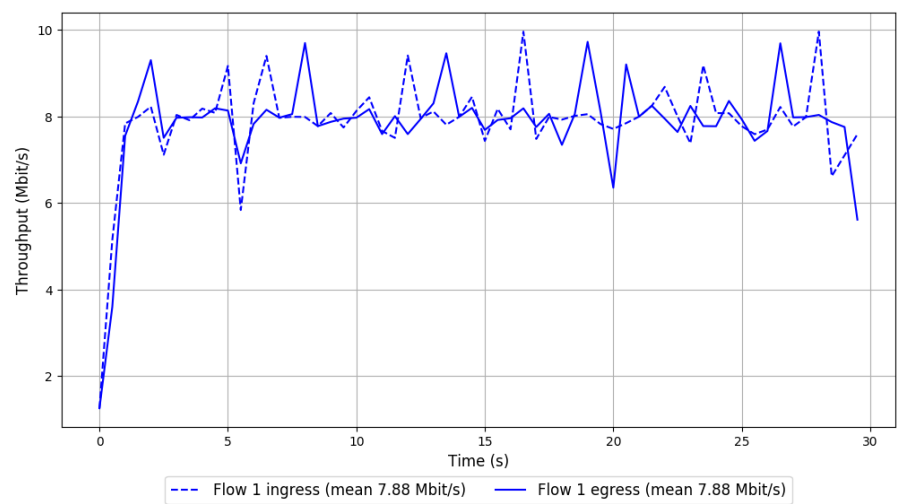
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.053 ms

Loss rate: 0.42%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 01:40:39

End at: 2017-11-16 01:41:10

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 54.015 ms

Loss rate: 0.78%

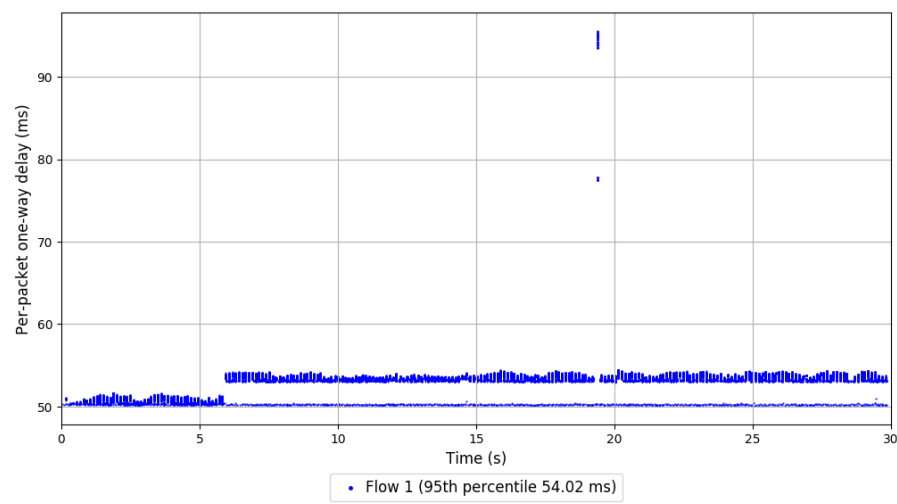
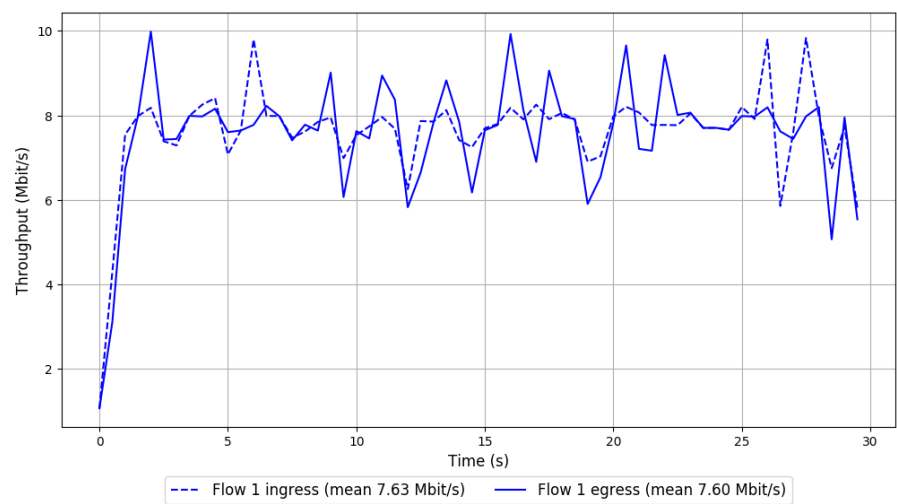
-- Flow 1:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 54.015 ms

Loss rate: 0.78%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-16 01:50:52

End at: 2017-11-16 01:51:22

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.492 ms

Loss rate: 0.36%

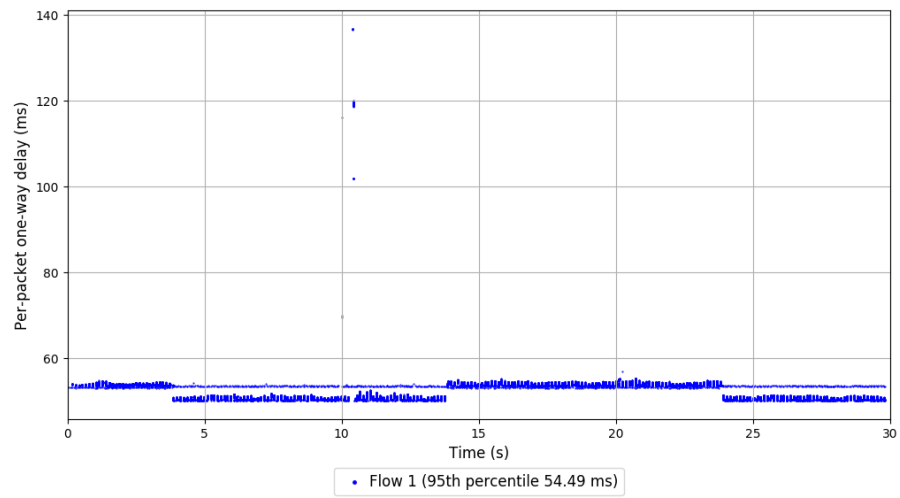
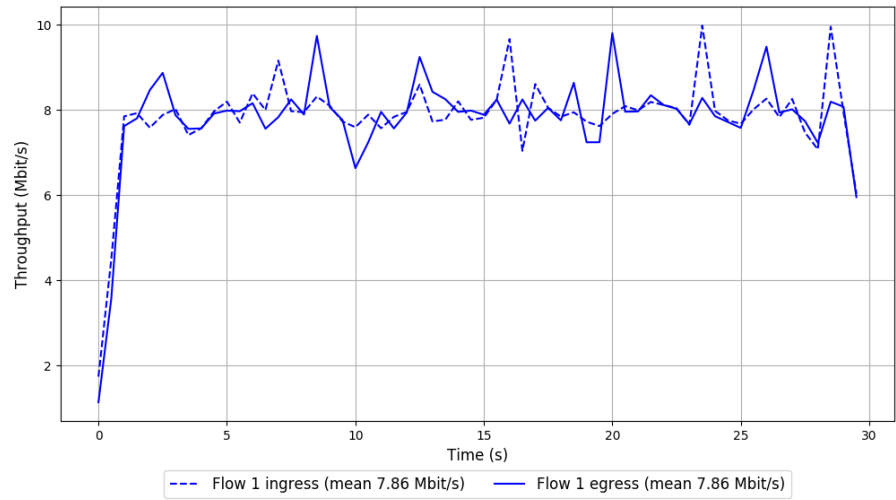
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.492 ms

Loss rate: 0.36%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-16 02:01:22

End at: 2017-11-16 02:01:52

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.677 ms

Loss rate: 1.61%

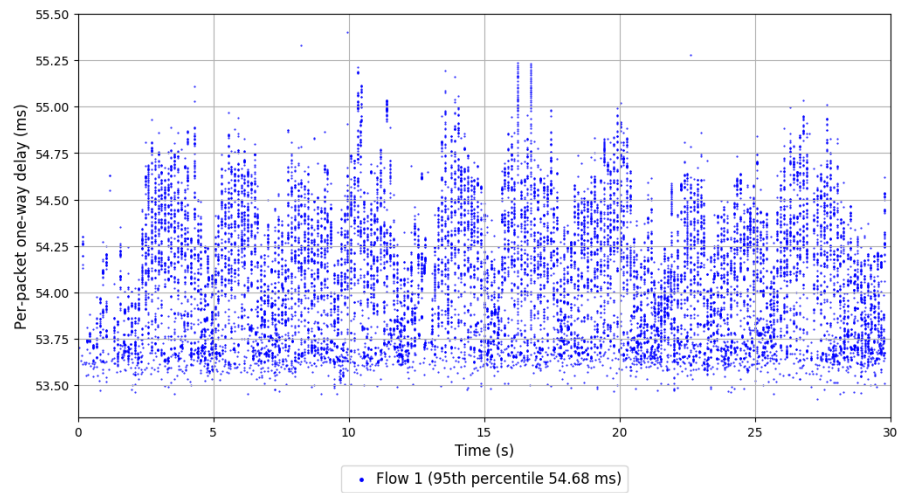
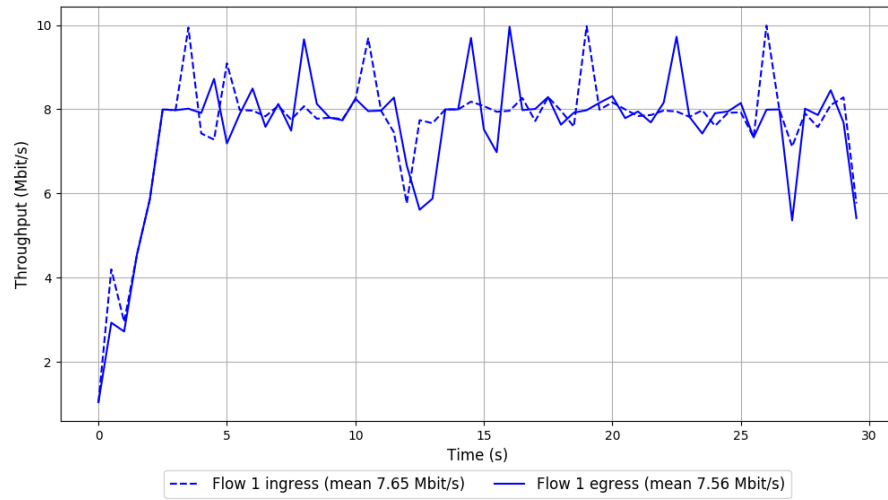
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.677 ms

Loss rate: 1.61%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 02:11:26

End at: 2017-11-16 02:11:56

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.412 ms

Loss rate: 0.41%

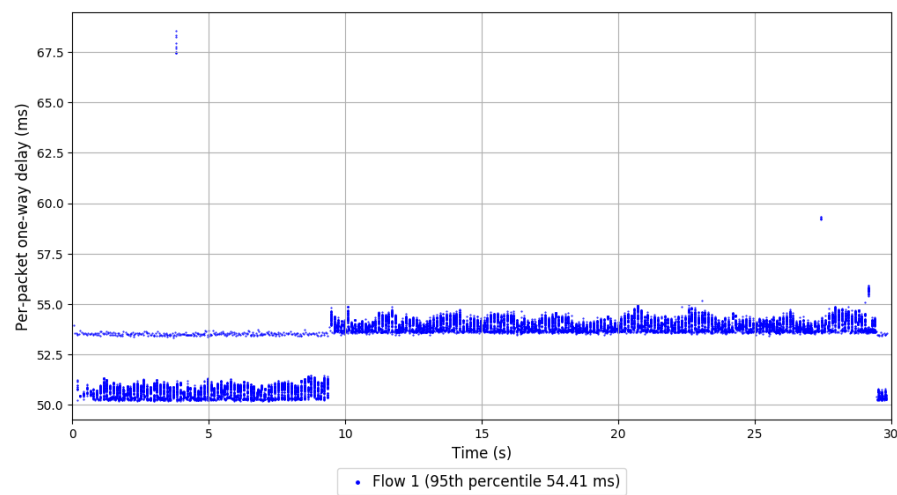
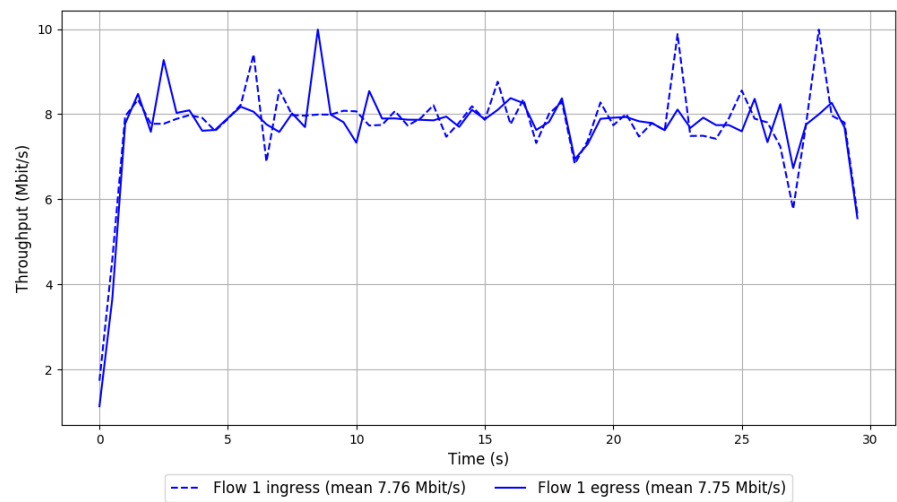
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.412 ms

Loss rate: 0.41%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 02:21:45

End at: 2017-11-16 02:22:15

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.064 ms

Loss rate: 0.42%

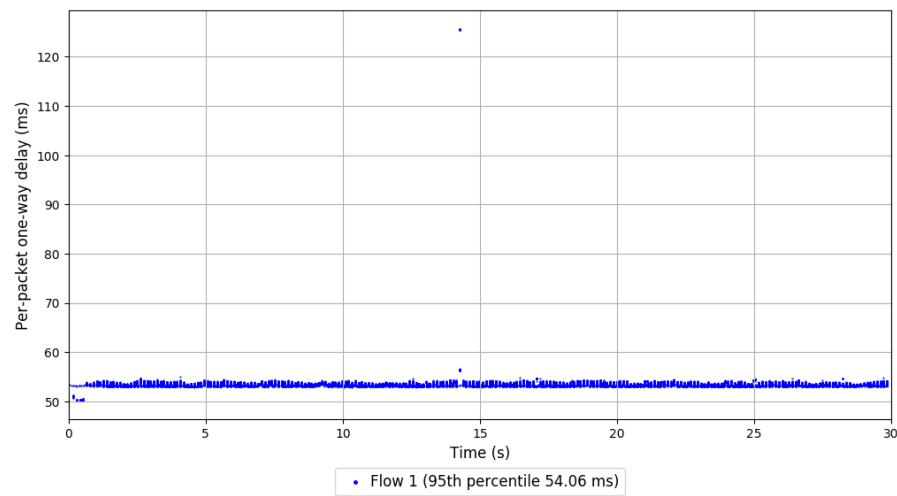
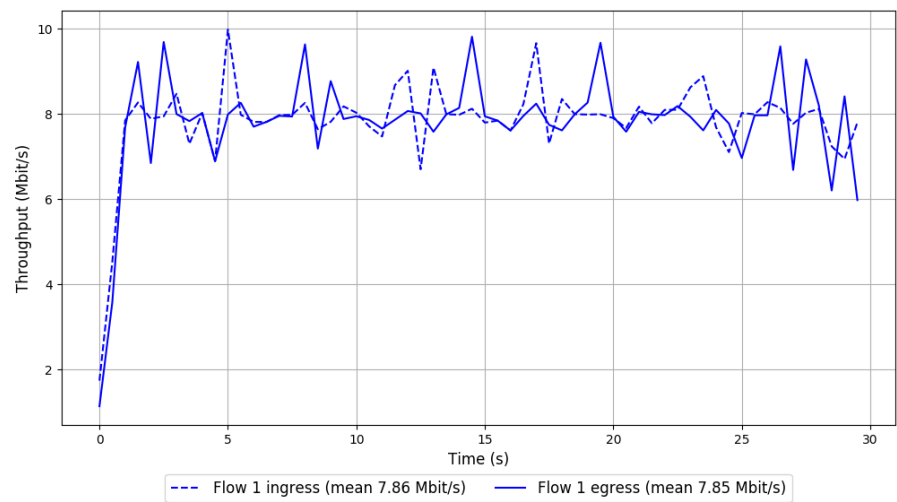
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.064 ms

Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 02:31:56

End at: 2017-11-16 02:32:26

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.113 ms

Loss rate: 0.77%

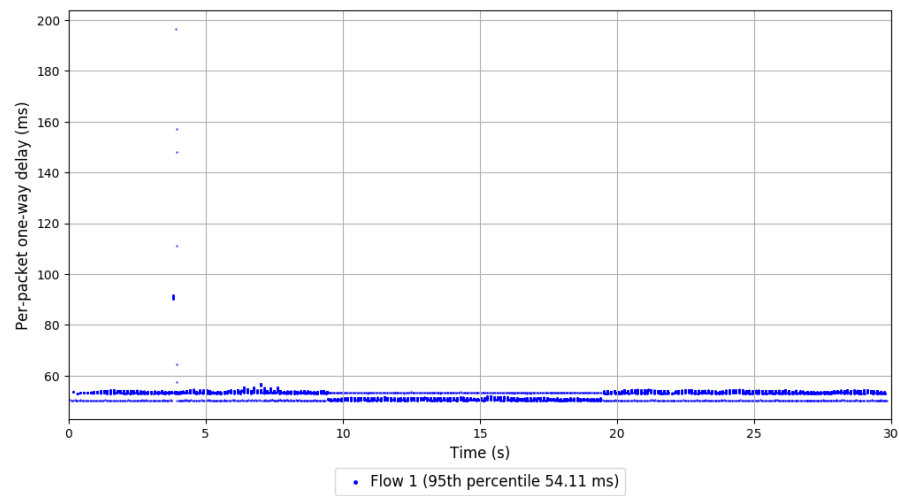
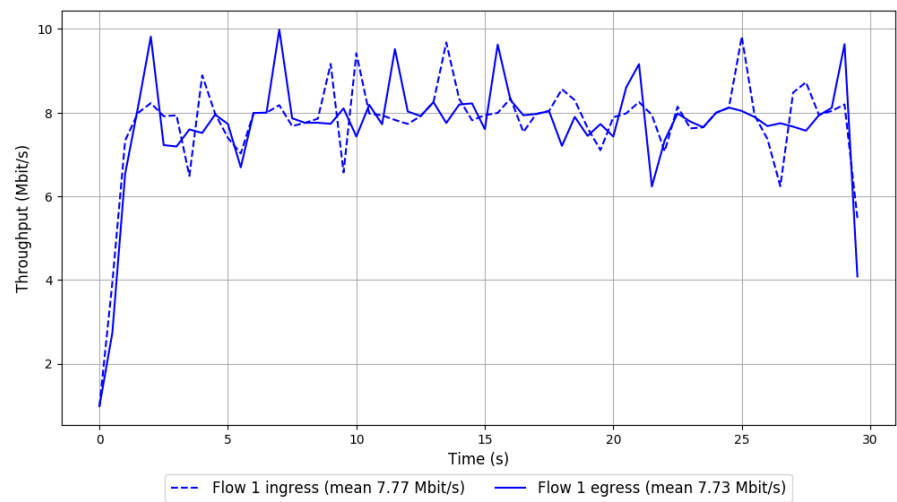
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.113 ms

Loss rate: 0.77%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 02:42:22

End at: 2017-11-16 02:42:52

Below is generated by plot.py at 2017-11-16 05:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 53.853 ms

Loss rate: 0.43%

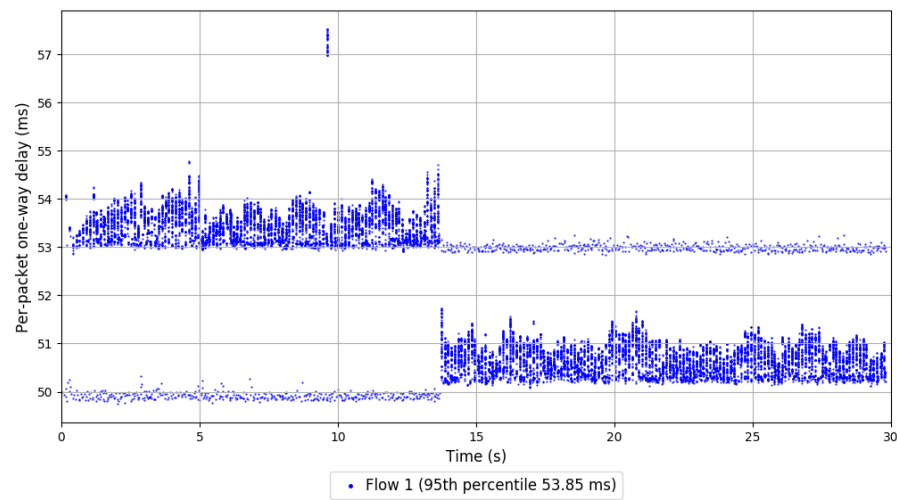
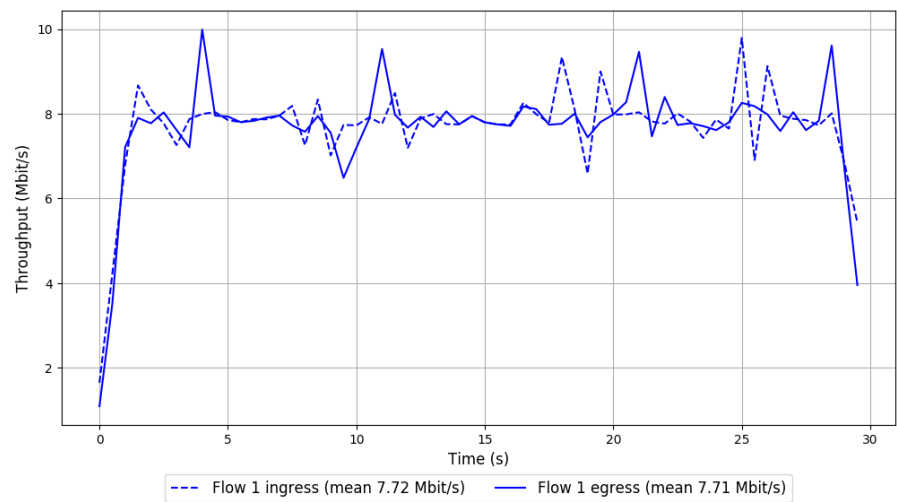
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 53.853 ms

Loss rate: 0.43%

Run 10: Report of Sprout — Data Link

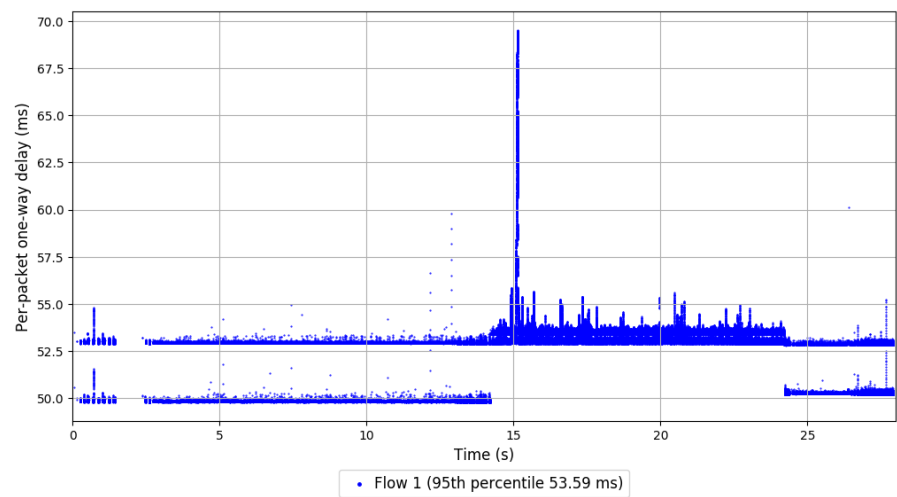
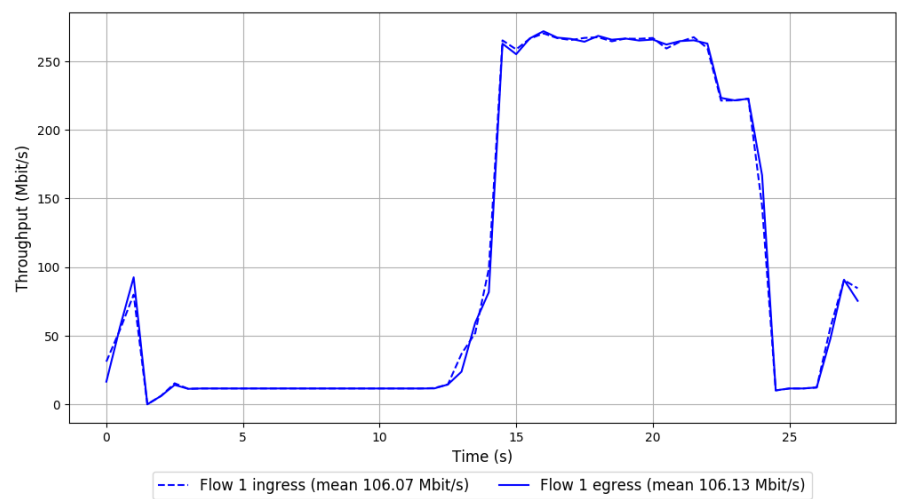


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 01:12:19
End at: 2017-11-16 01:12:49

# Below is generated by plot.py at 2017-11-16 05:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 106.13 Mbit/s
95th percentile per-packet one-way delay: 53.589 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 106.13 Mbit/s
95th percentile per-packet one-way delay: 53.589 ms
Loss rate: 0.31%
```

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

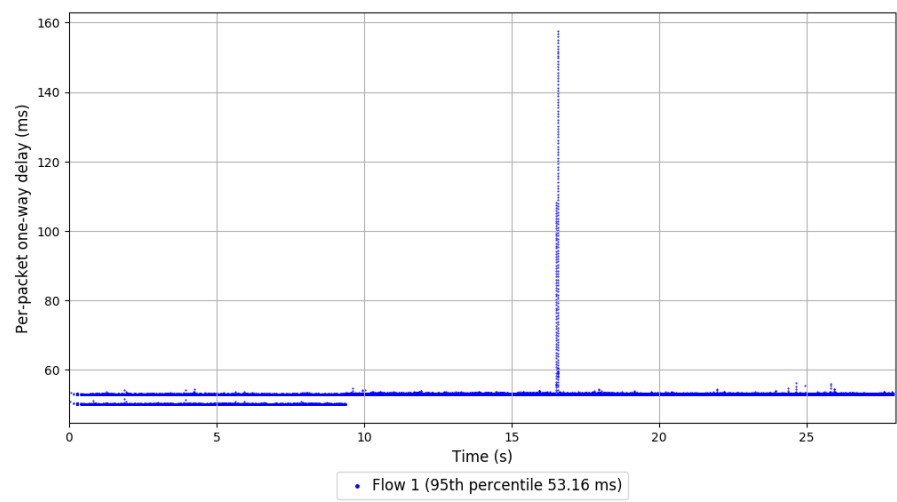
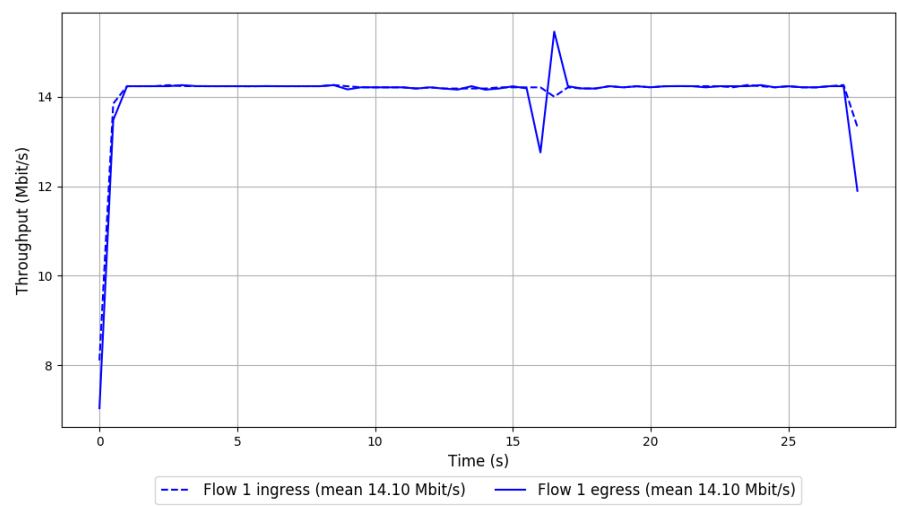


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 01:22:44
End at: 2017-11-16 01:23:14

# Below is generated by plot.py at 2017-11-16 05:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 53.164 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 53.164 ms
Loss rate: 0.37%
```

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

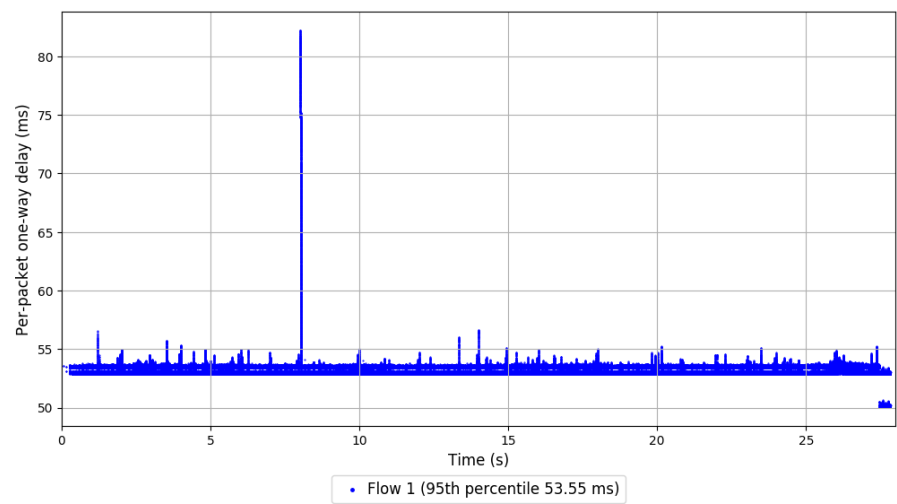
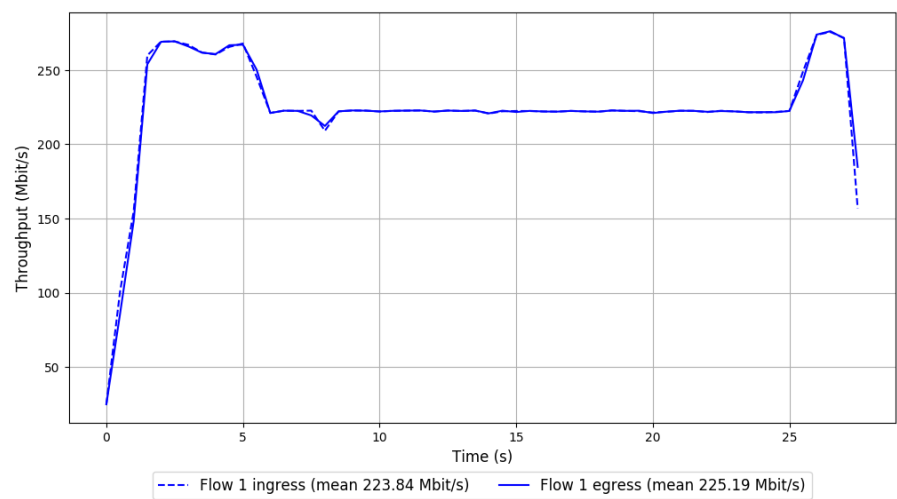


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 01:32:56
End at: 2017-11-16 01:33:26

# Below is generated by plot.py at 2017-11-16 05:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.19 Mbit/s
95th percentile per-packet one-way delay: 53.555 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 225.19 Mbit/s
95th percentile per-packet one-way delay: 53.555 ms
Loss rate: 0.01%
```

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

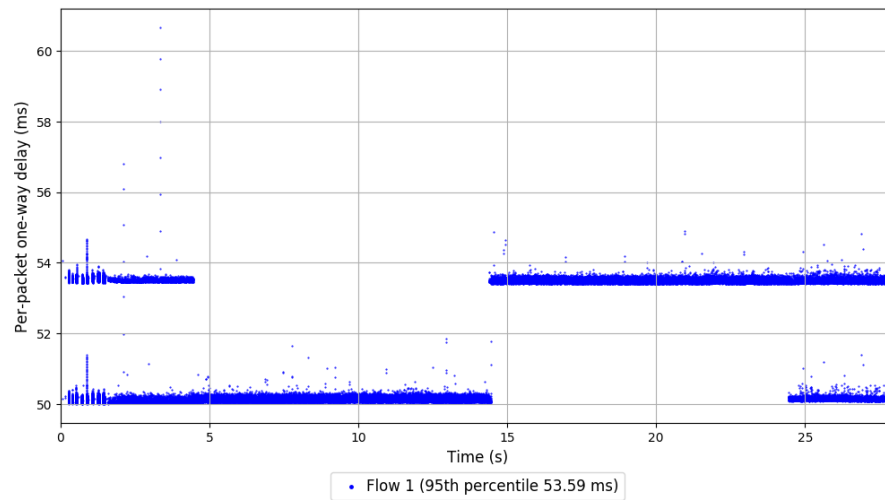
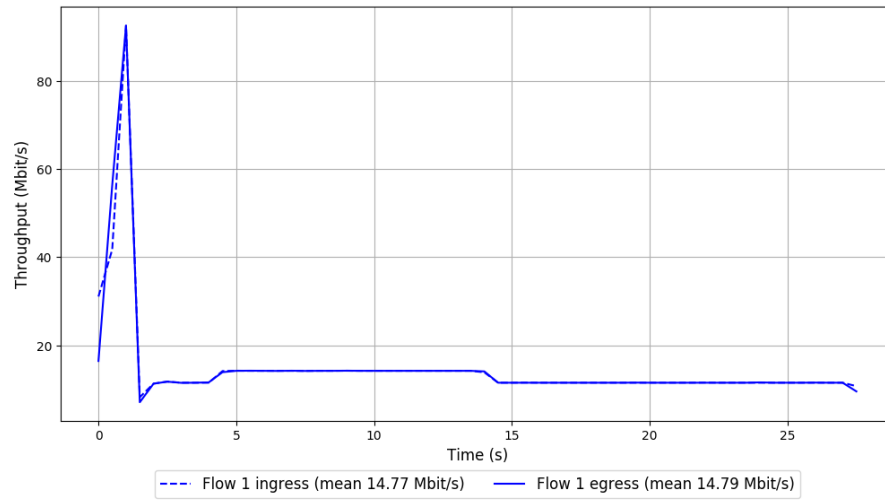


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 01:43:29
End at: 2017-11-16 01:43:59

# Below is generated by plot.py at 2017-11-16 05:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 53.591 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 53.591 ms
Loss rate: 0.28%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 01:53:44

End at: 2017-11-16 01:54:14

Below is generated by plot.py at 2017-11-16 05:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.01 Mbit/s

95th percentile per-packet one-way delay: 50.515 ms

Loss rate: 0.08%

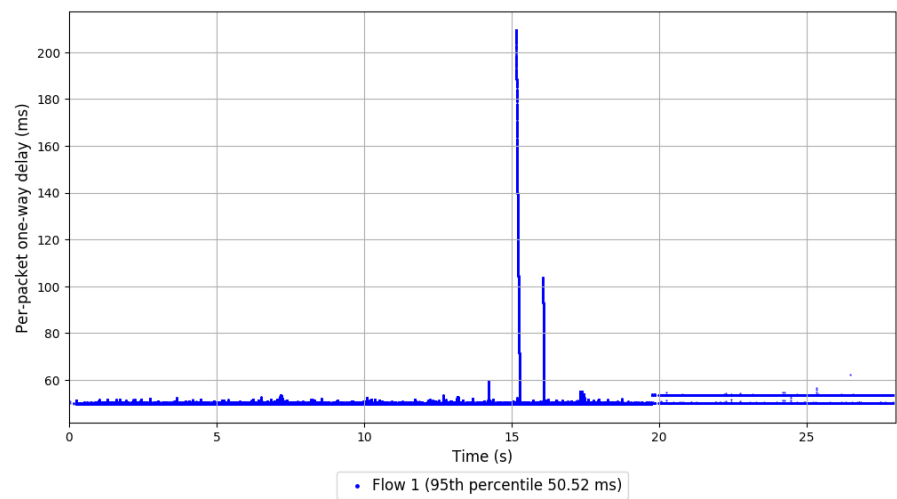
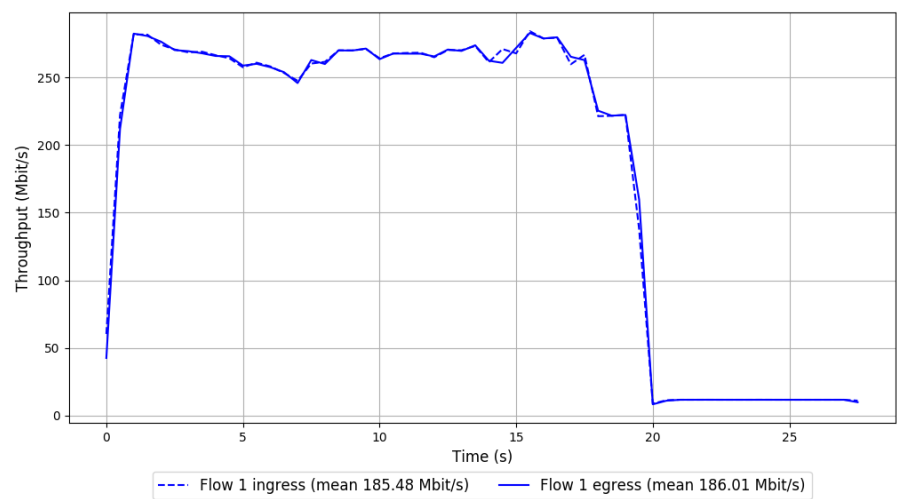
-- Flow 1:

Average throughput: 186.01 Mbit/s

95th percentile per-packet one-way delay: 50.515 ms

Loss rate: 0.08%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 02:04:03

End at: 2017-11-16 02:04:33

Below is generated by plot.py at 2017-11-16 05:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.72 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.28%

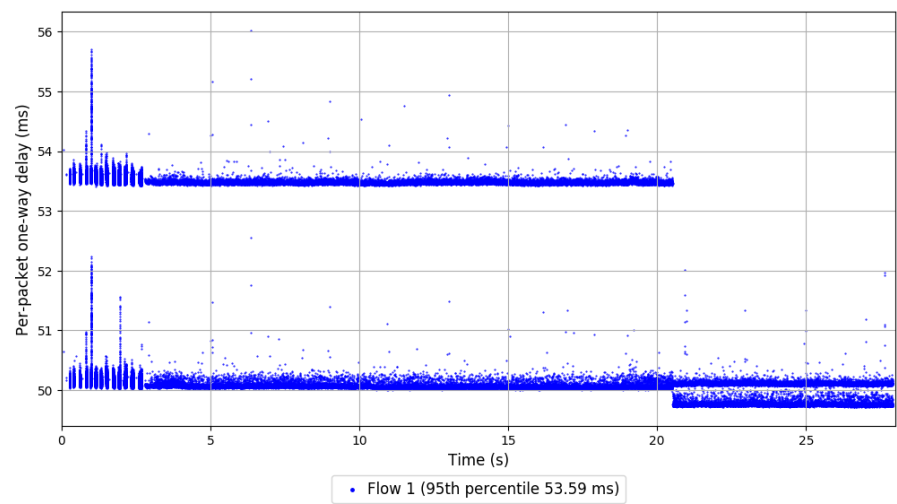
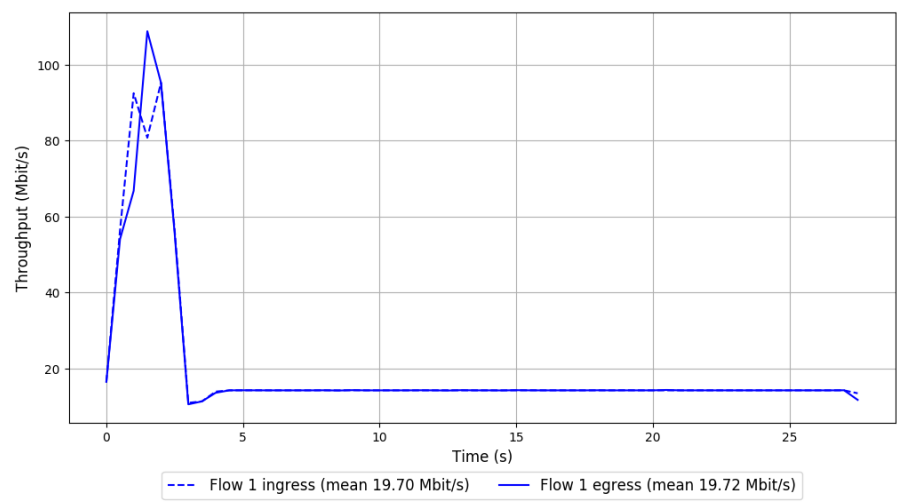
-- Flow 1:

Average throughput: 19.72 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.28%

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

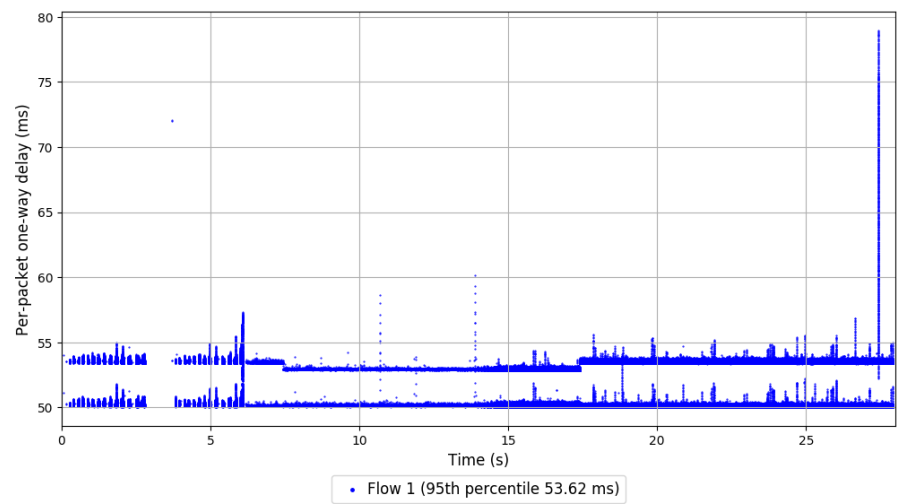
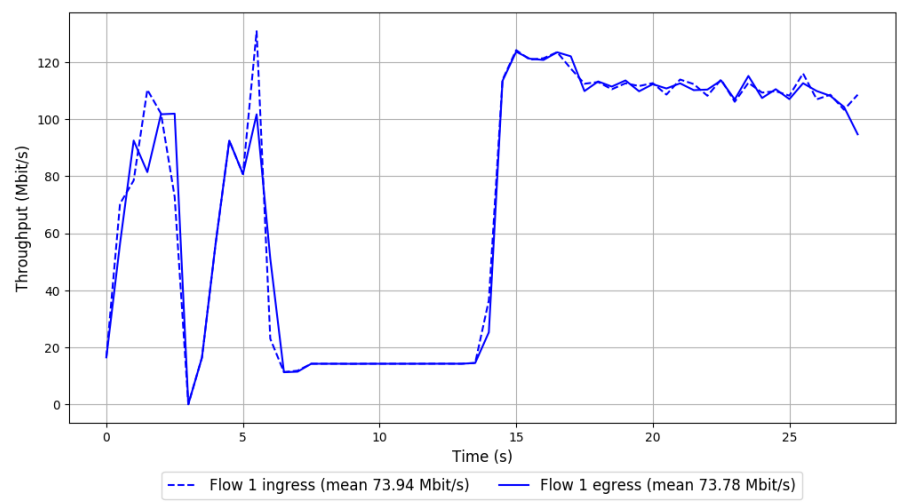


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 02:14:16
End at: 2017-11-16 02:14:46

# Below is generated by plot.py at 2017-11-16 05:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.78 Mbit/s
95th percentile per-packet one-way delay: 53.625 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 73.78 Mbit/s
95th percentile per-packet one-way delay: 53.625 ms
Loss rate: 0.60%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 02:24:36

End at: 2017-11-16 02:25:06

Below is generated by plot.py at 2017-11-16 05:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 52.930 ms

Loss rate: 0.30%

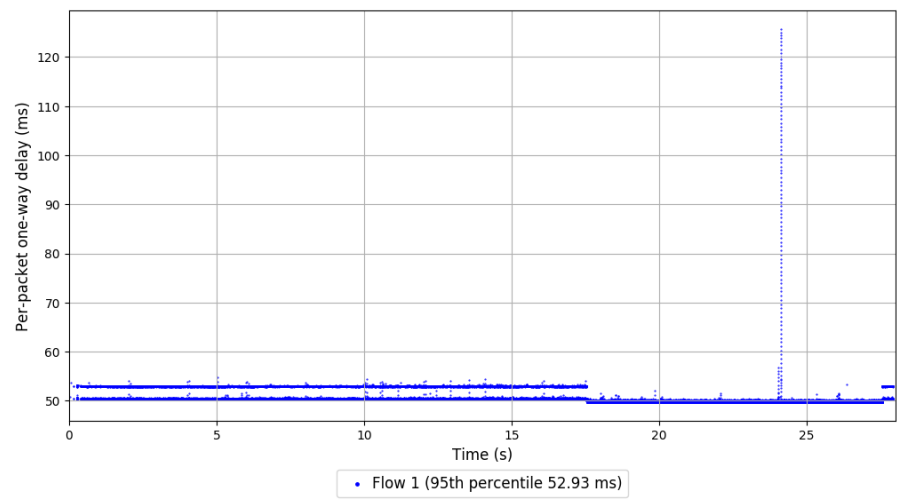
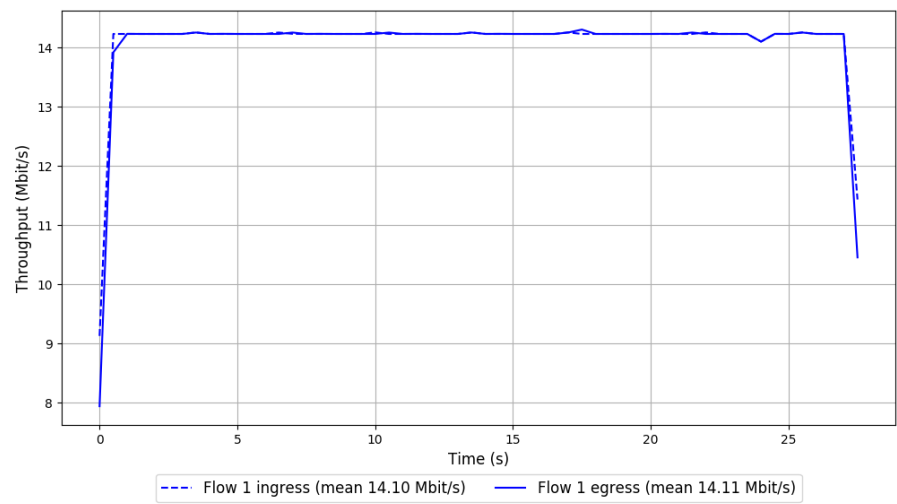
-- Flow 1:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 52.930 ms

Loss rate: 0.30%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 02:34:50

End at: 2017-11-16 02:35:20

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.75 Mbit/s

95th percentile per-packet one-way delay: 50.807 ms

Loss rate: 0.34%

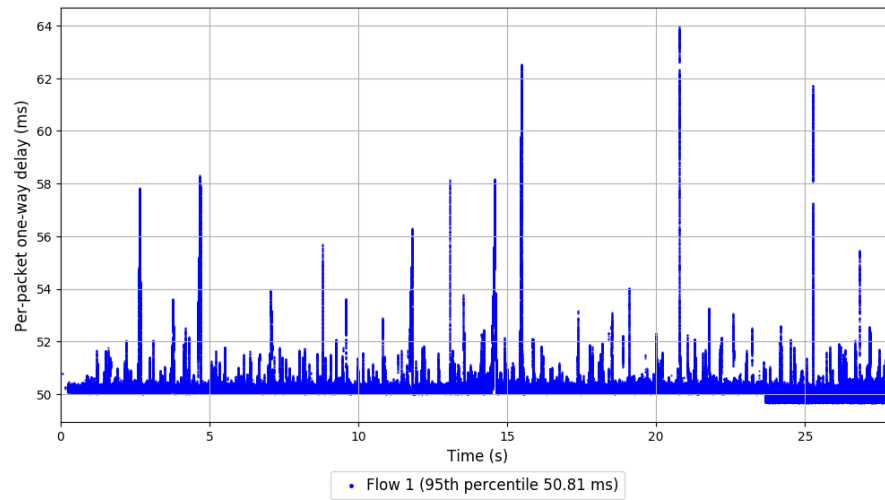
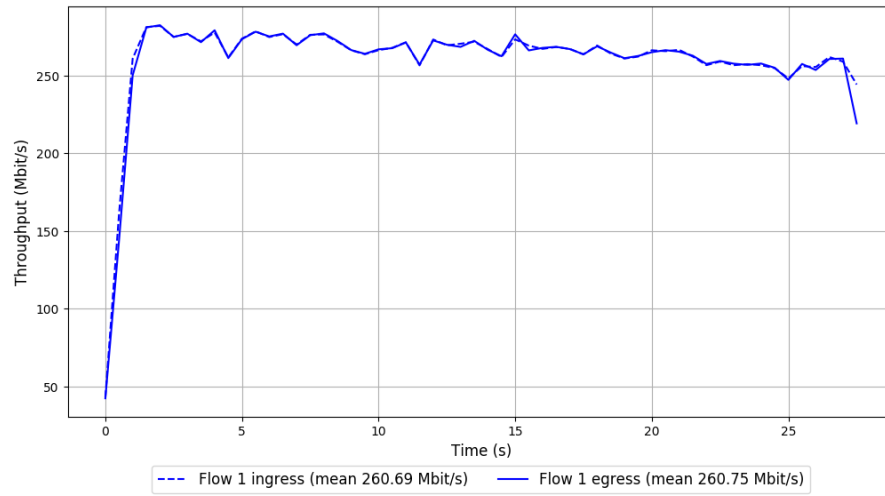
-- Flow 1:

Average throughput: 260.75 Mbit/s

95th percentile per-packet one-way delay: 50.807 ms

Loss rate: 0.34%

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

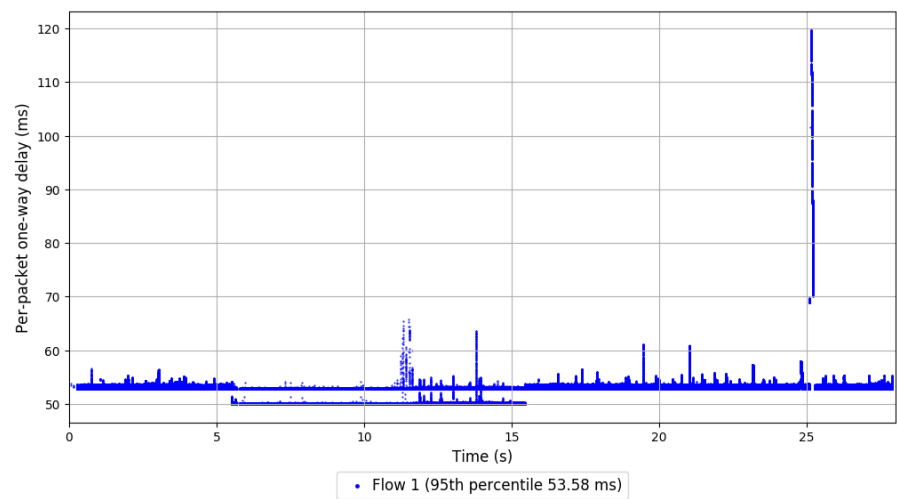
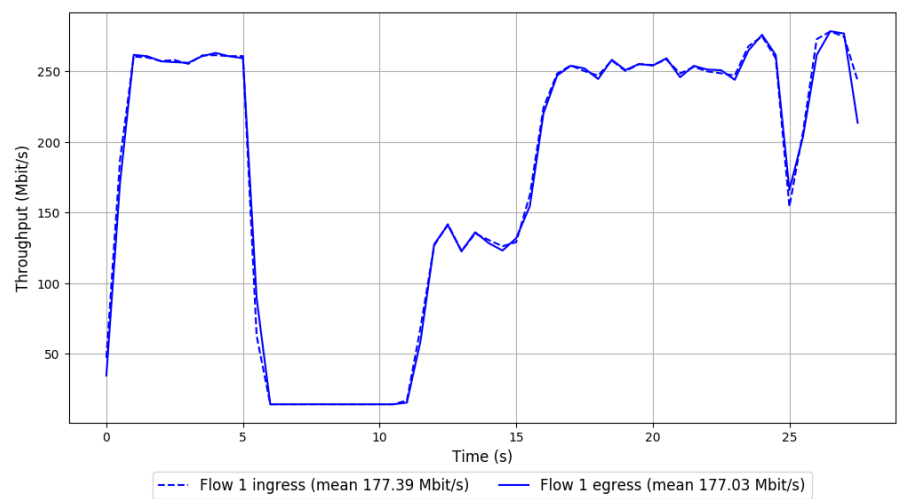


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 02:45:08
End at: 2017-11-16 02:45:38

# Below is generated by plot.py at 2017-11-16 05:05:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.03 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 177.03 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 0.58%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 01:14:06

End at: 2017-11-16 01:14:36

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.82%

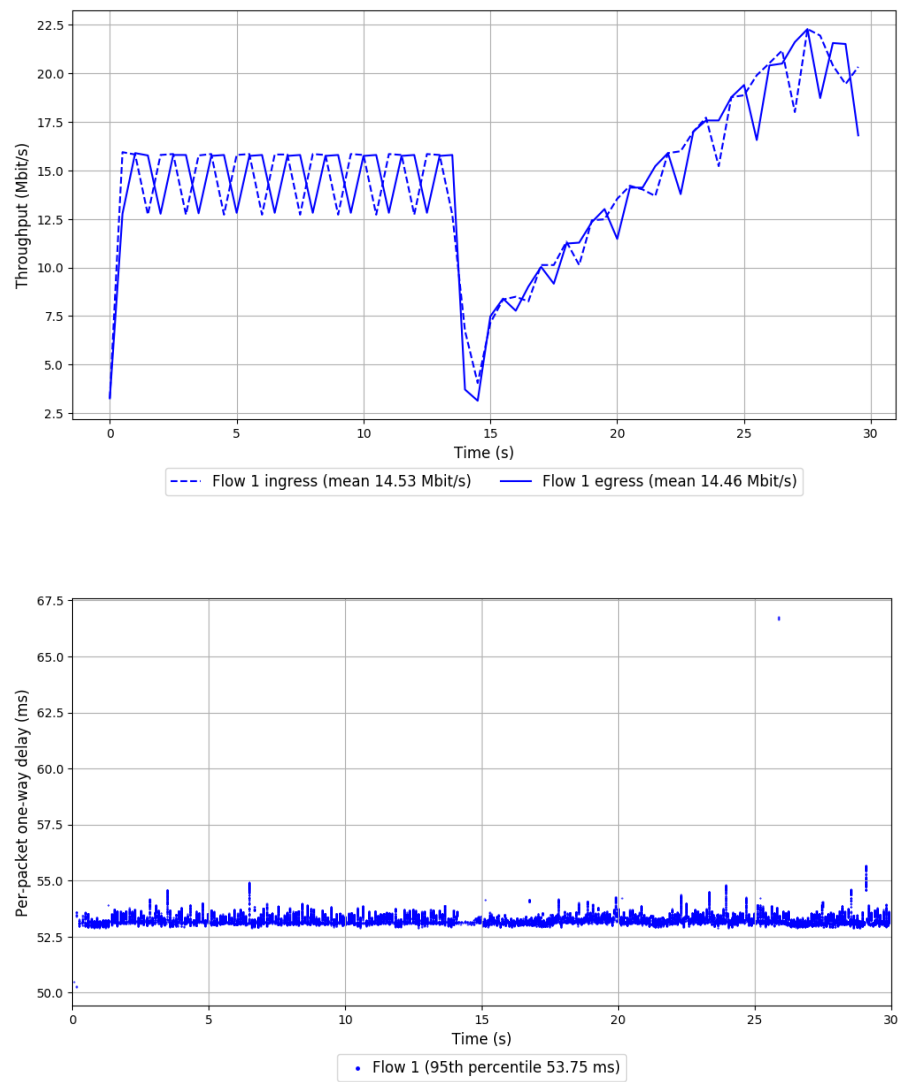
-- Flow 1:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.82%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 01:24:18

End at: 2017-11-16 01:24:48

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.03 Mbit/s

95th percentile per-packet one-way delay: 53.447 ms

Loss rate: 0.23%

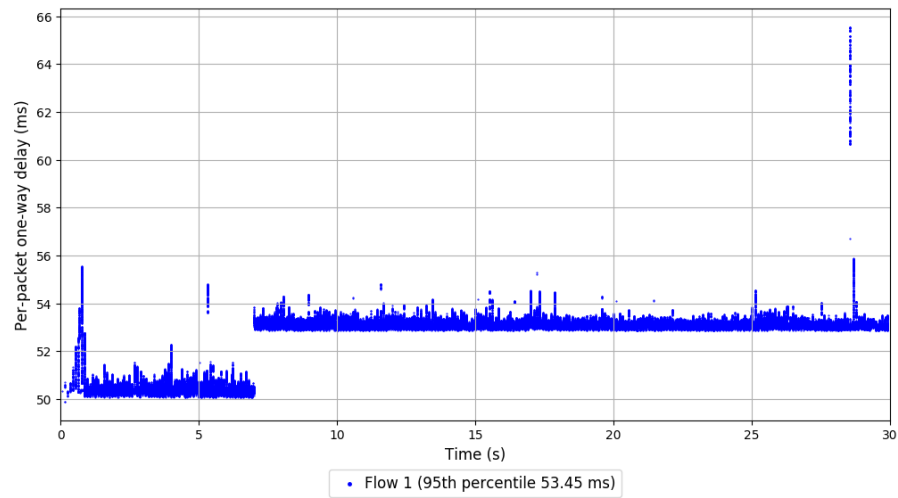
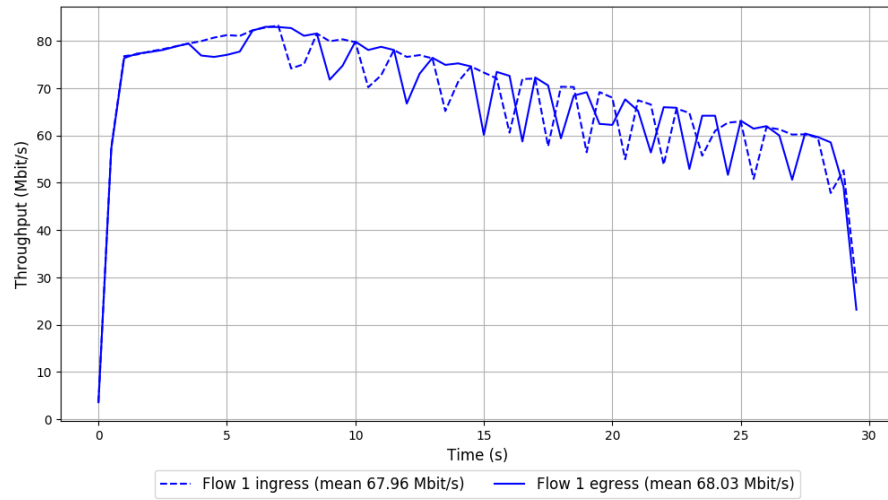
-- Flow 1:

Average throughput: 68.03 Mbit/s

95th percentile per-packet one-way delay: 53.447 ms

Loss rate: 0.23%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 01:34:50

End at: 2017-11-16 01:35:20

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 53.376 ms

Loss rate: 0.23%

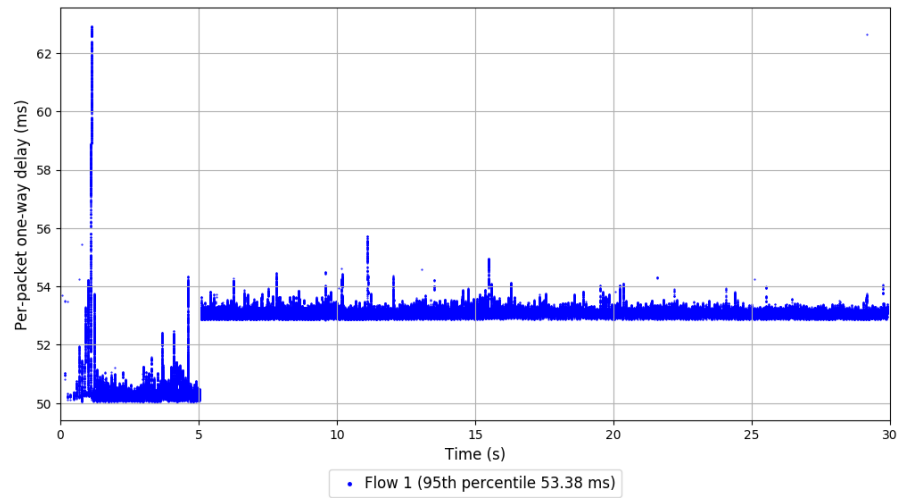
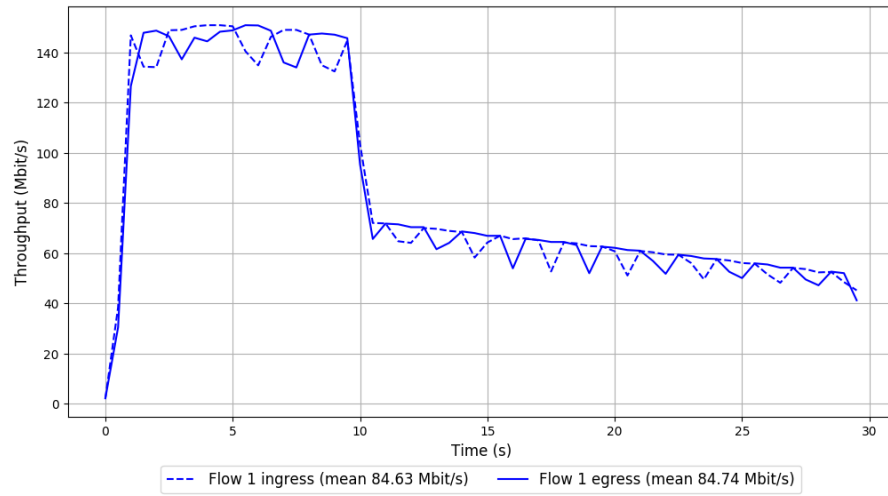
-- Flow 1:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 53.376 ms

Loss rate: 0.23%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 01:45:02

End at: 2017-11-16 01:45:32

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.14 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 0.38%

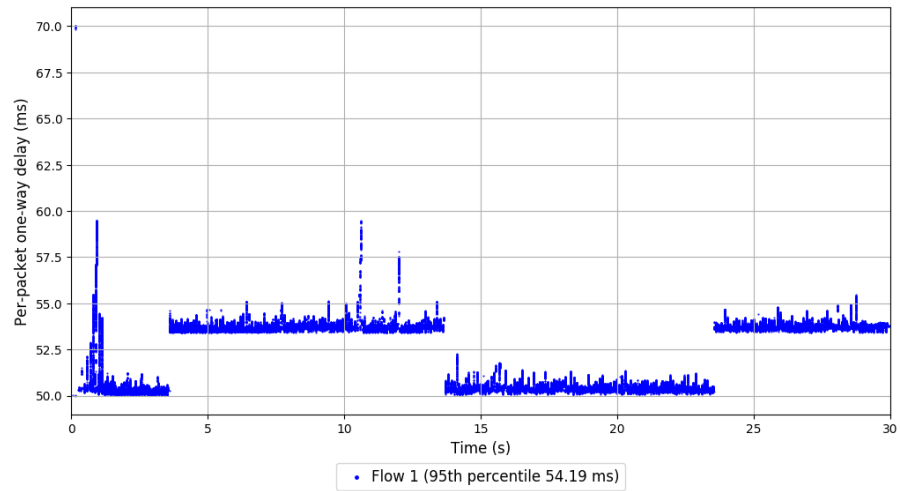
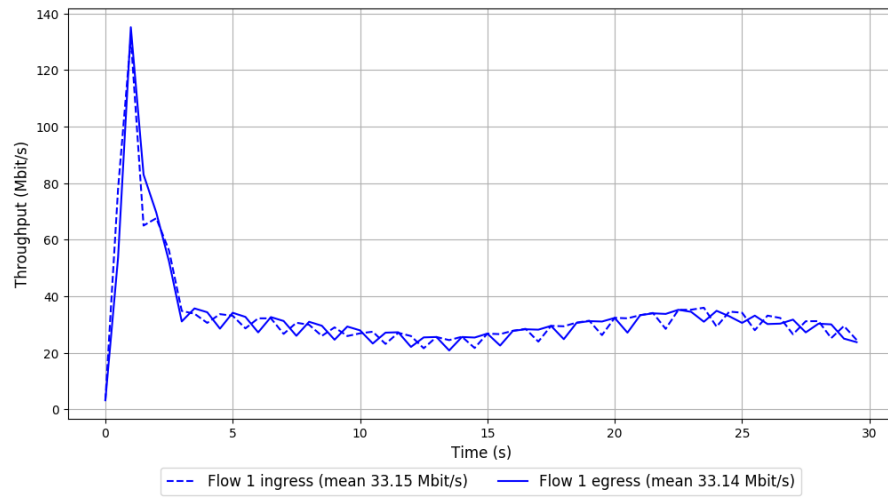
-- Flow 1:

Average throughput: 33.14 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 0.38%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 01:55:32

End at: 2017-11-16 01:56:02

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 54.331 ms

Loss rate: 0.06%

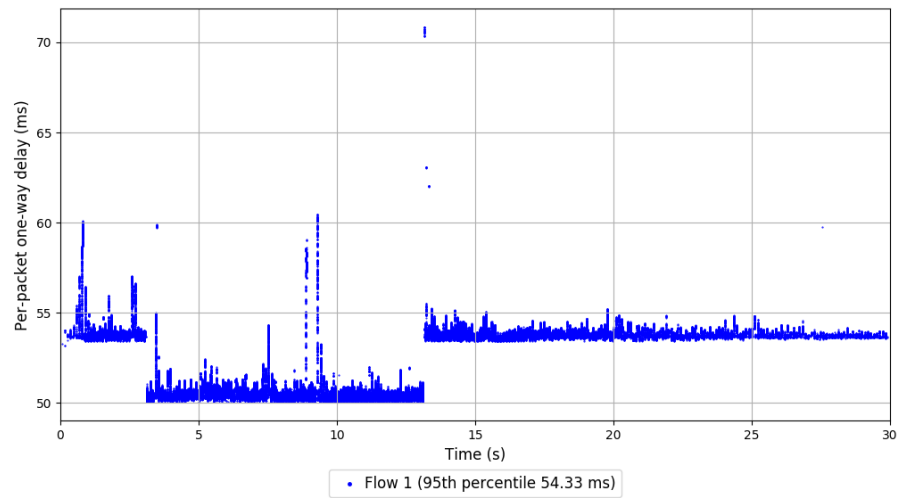
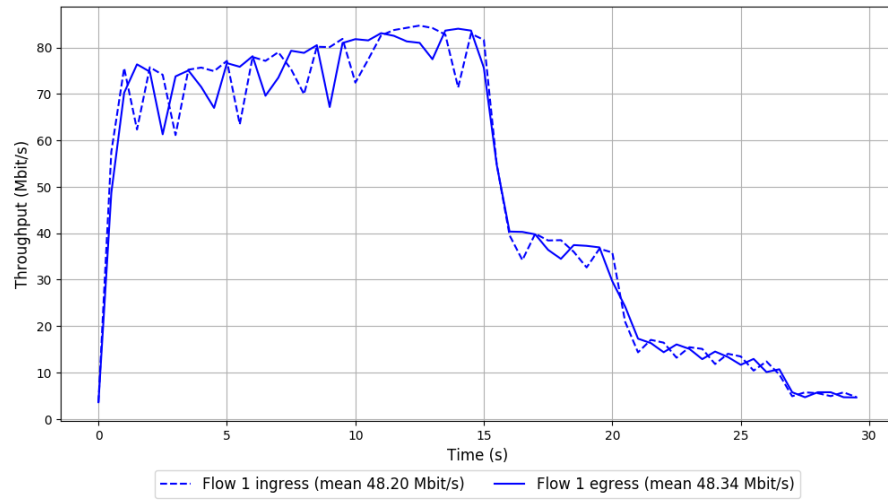
-- Flow 1:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 54.331 ms

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link

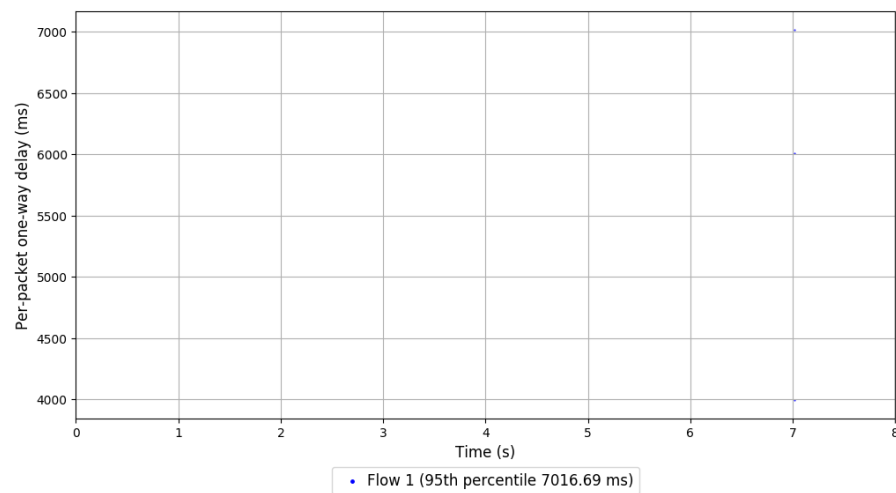
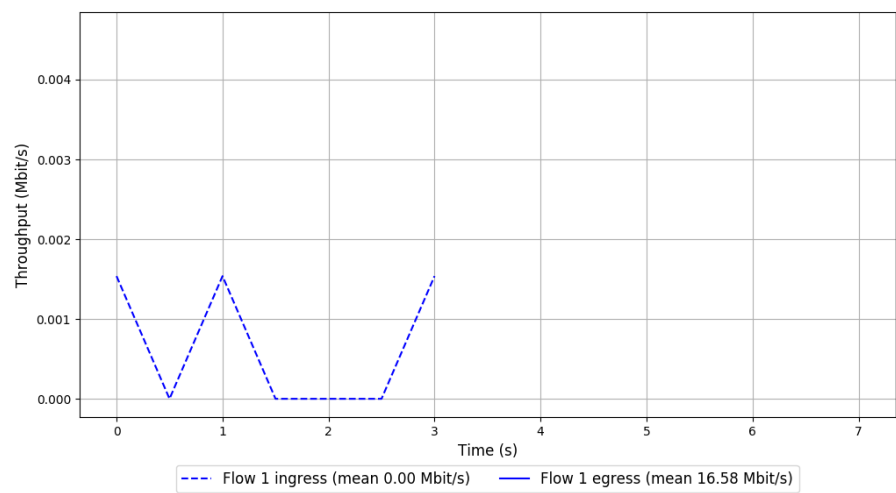


Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 02:05:37

End at: 2017-11-16 02:06:07

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 02:15:54

End at: 2017-11-16 02:16:24

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.05 Mbit/s

95th percentile per-packet one-way delay: 54.807 ms

Loss rate: 0.28%

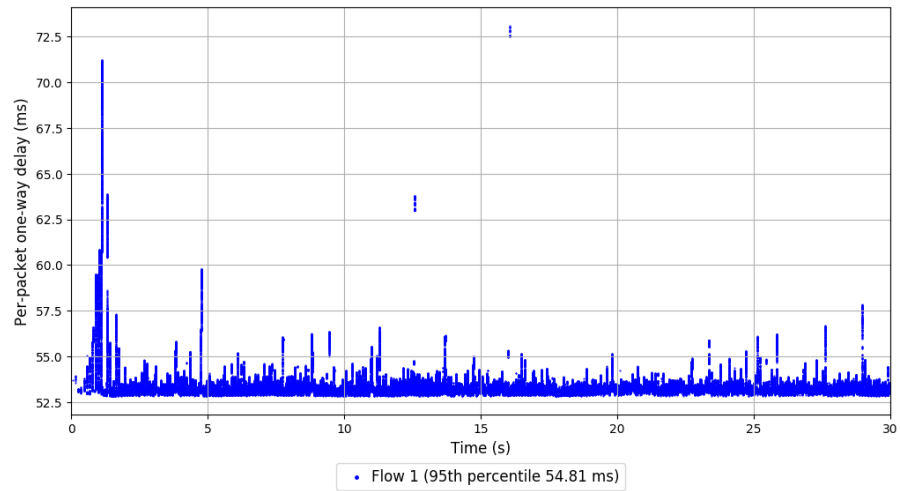
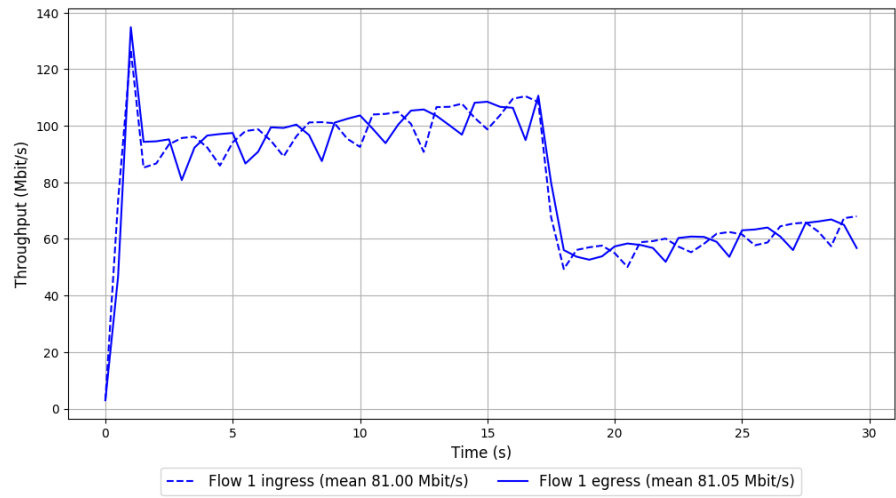
-- Flow 1:

Average throughput: 81.05 Mbit/s

95th percentile per-packet one-way delay: 54.807 ms

Loss rate: 0.28%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 02:26:07

End at: 2017-11-16 02:26:37

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 55.185 ms

Loss rate: 0.20%

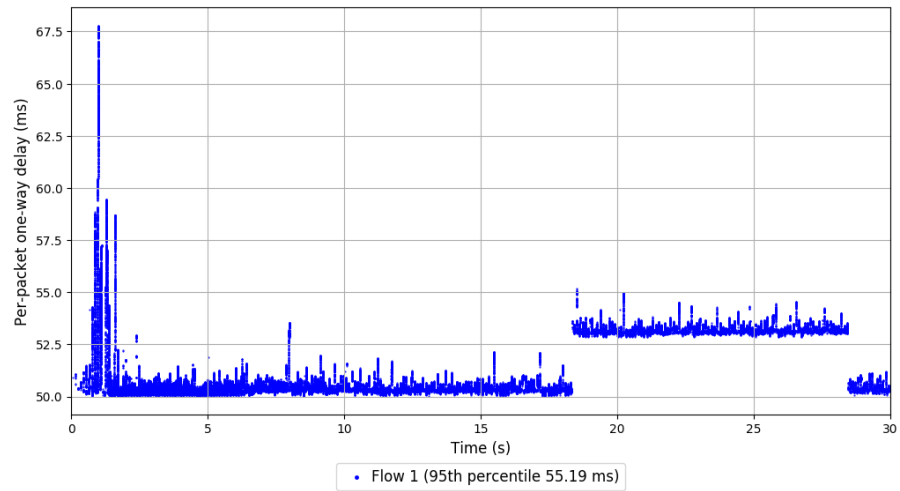
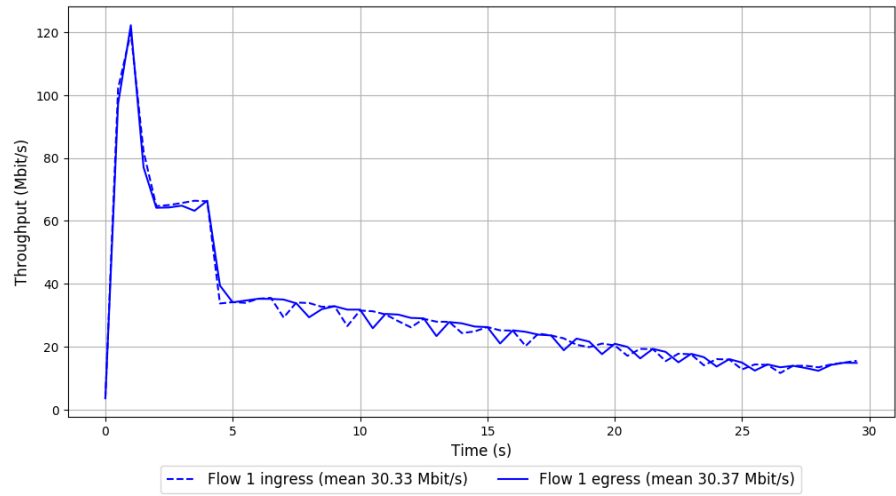
-- Flow 1:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 55.185 ms

Loss rate: 0.20%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 02:36:29

End at: 2017-11-16 02:36:59

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.15 Mbit/s

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

Loss rate: 0.41%

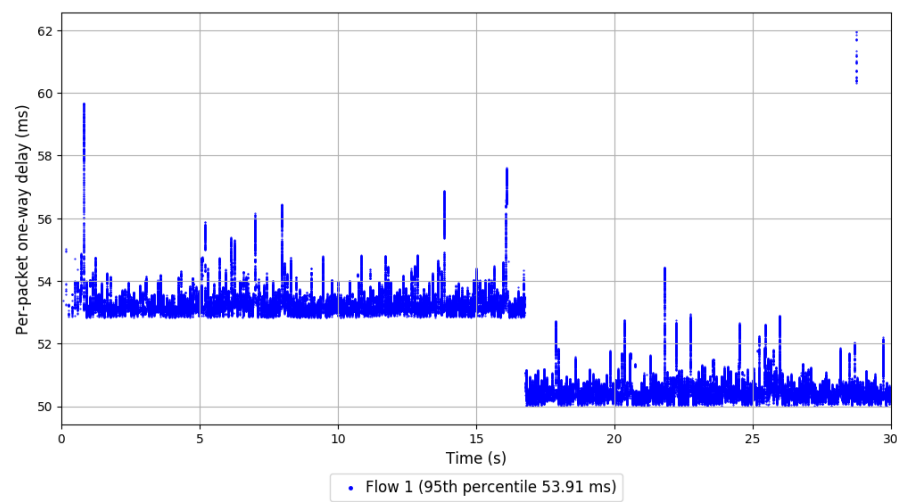
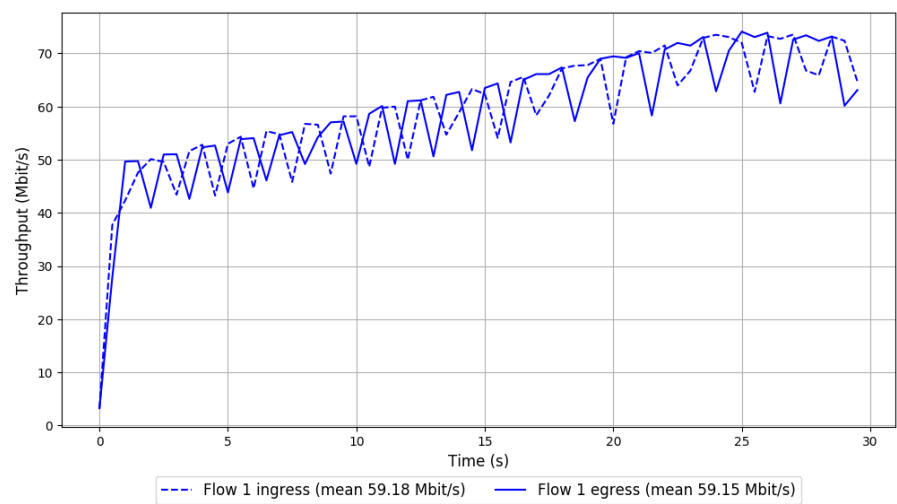
-- Flow 1:

Average throughput: 59.15 Mbit/s

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

Loss rate: 0.41%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 02:46:56

End at: 2017-11-16 02:47:26

Below is generated by plot.py at 2017-11-16 05:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 56.628 ms

Loss rate: 0.13%

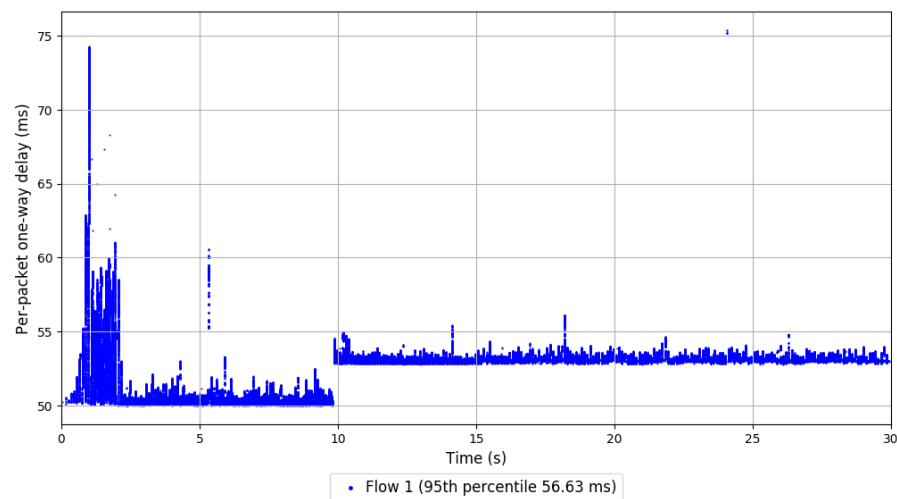
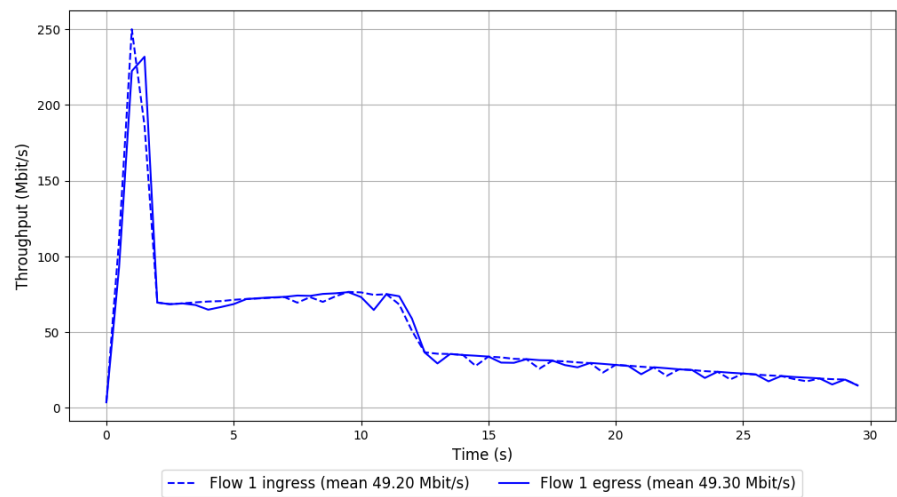
-- Flow 1:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 56.628 ms

Loss rate: 0.13%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-16 01:13:06

End at: 2017-11-16 01:13:36

Below is generated by plot.py at 2017-11-16 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.32 Mbit/s

95th percentile per-packet one-way delay: 198.954 ms

Loss rate: 1.90%

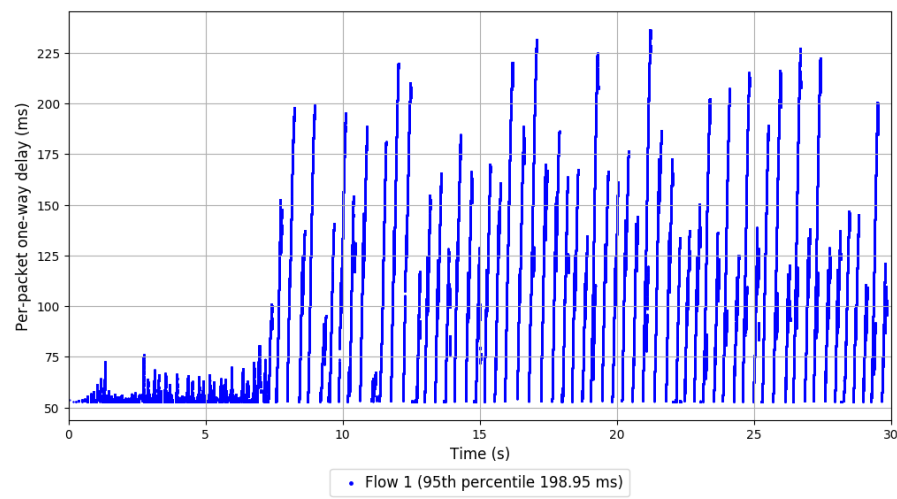
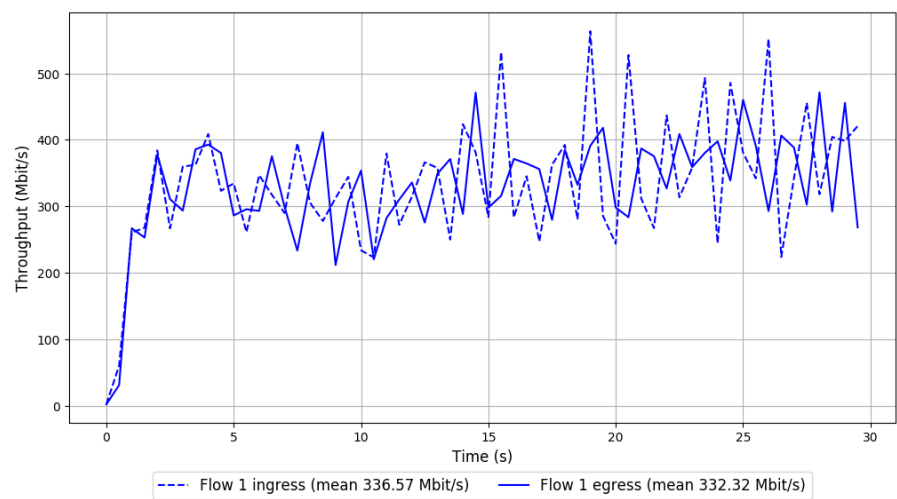
-- Flow 1:

Average throughput: 332.32 Mbit/s

95th percentile per-packet one-way delay: 198.954 ms

Loss rate: 1.90%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 01:23:22

End at: 2017-11-16 01:23:52

Below is generated by plot.py at 2017-11-16 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.39 Mbit/s

95th percentile per-packet one-way delay: 121.775 ms

Loss rate: 0.76%

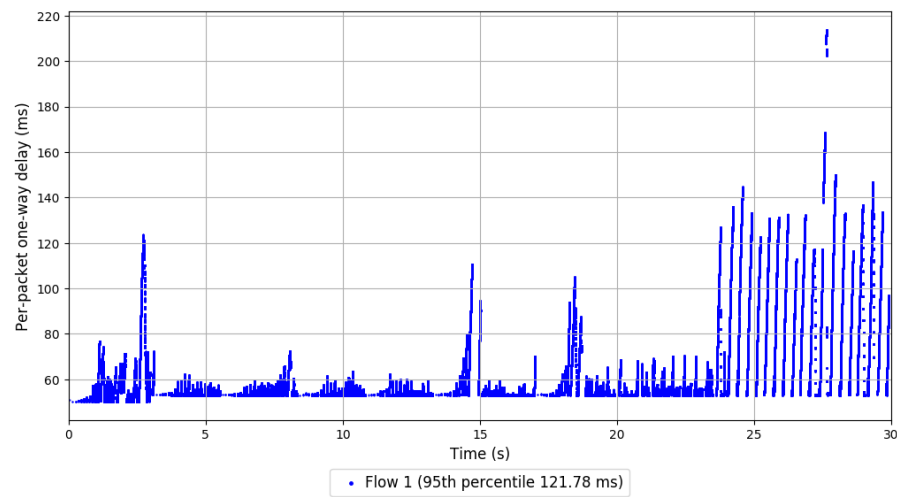
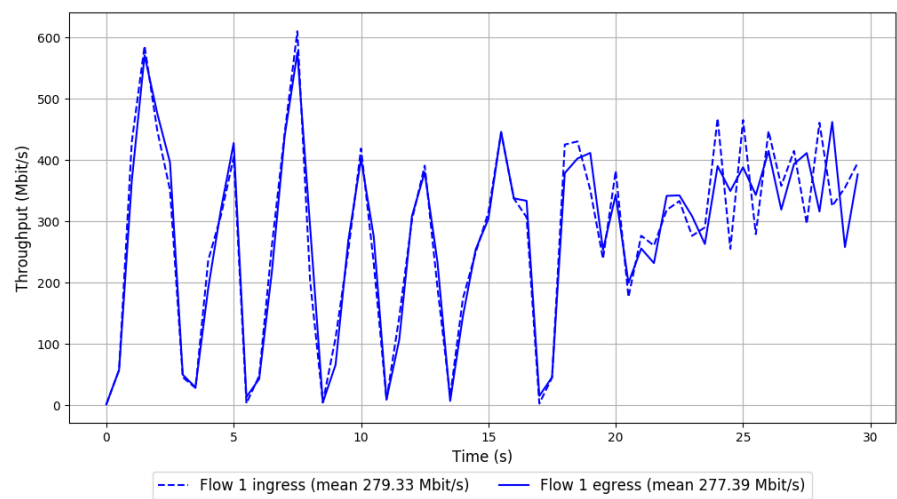
-- Flow 1:

Average throughput: 277.39 Mbit/s

95th percentile per-packet one-way delay: 121.775 ms

Loss rate: 0.76%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 01:33:52

End at: 2017-11-16 01:34:22

Below is generated by plot.py at 2017-11-16 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.45 Mbit/s

95th percentile per-packet one-way delay: 150.252 ms

Loss rate: 0.47%

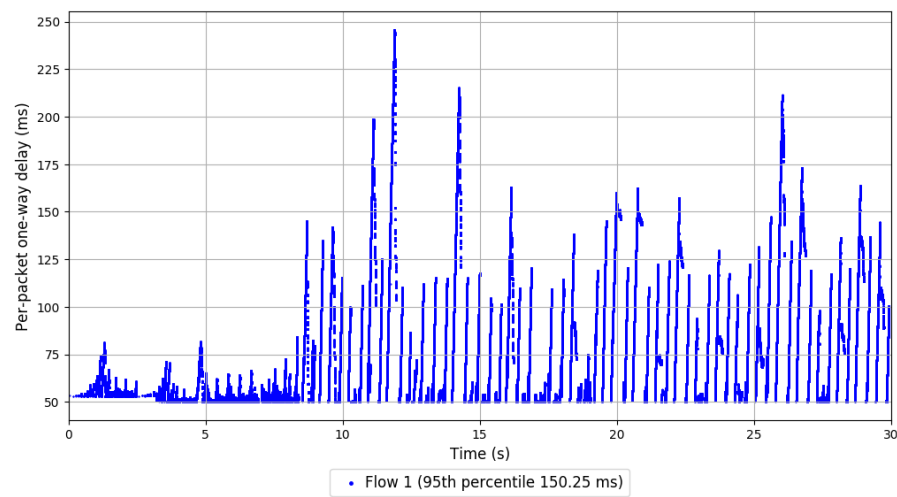
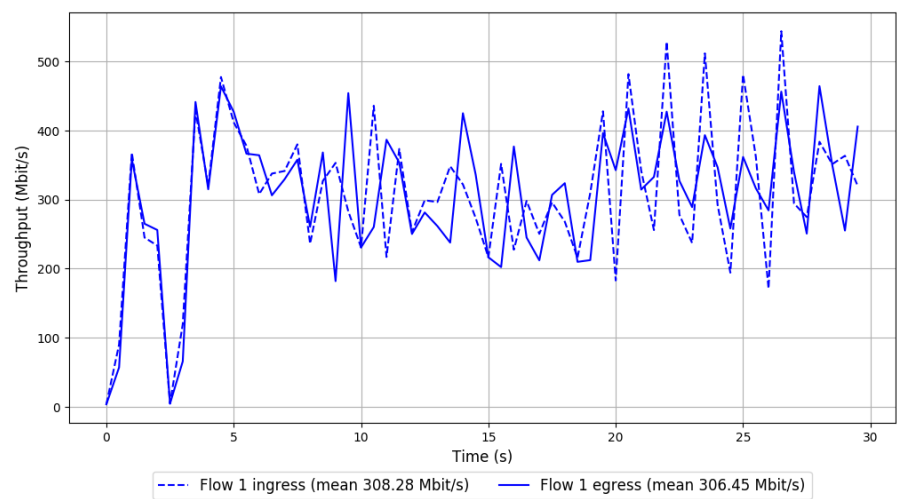
-- Flow 1:

Average throughput: 306.45 Mbit/s

95th percentile per-packet one-way delay: 150.252 ms

Loss rate: 0.47%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 01:44:07

End at: 2017-11-16 01:44:37

Below is generated by plot.py at 2017-11-16 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.39 Mbit/s

95th percentile per-packet one-way delay: 84.030 ms

Loss rate: 0.32%

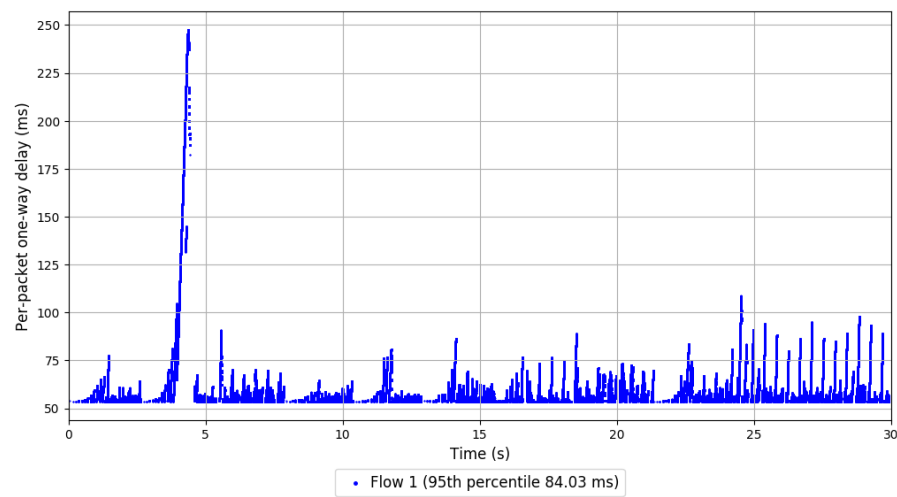
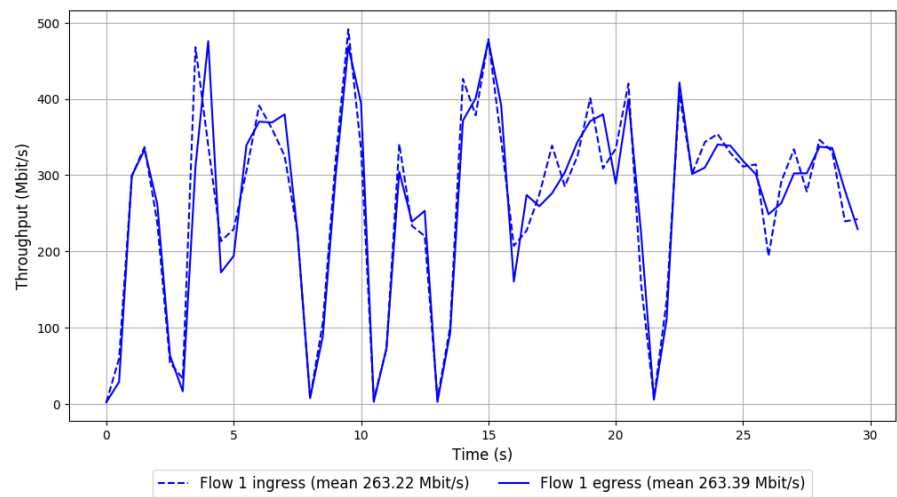
-- Flow 1:

Average throughput: 263.39 Mbit/s

95th percentile per-packet one-way delay: 84.030 ms

Loss rate: 0.32%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 01:54:37

End at: 2017-11-16 01:55:07

Below is generated by plot.py at 2017-11-16 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.21 Mbit/s

95th percentile per-packet one-way delay: 78.845 ms

Loss rate: 1.83%

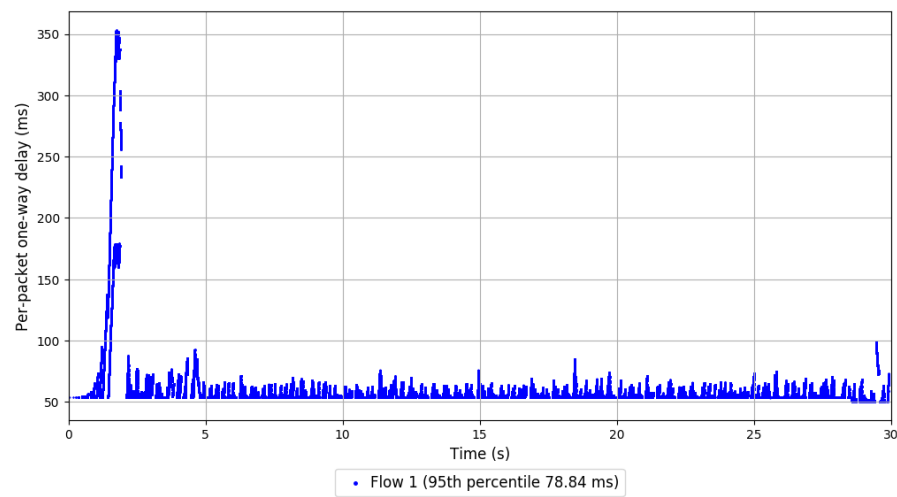
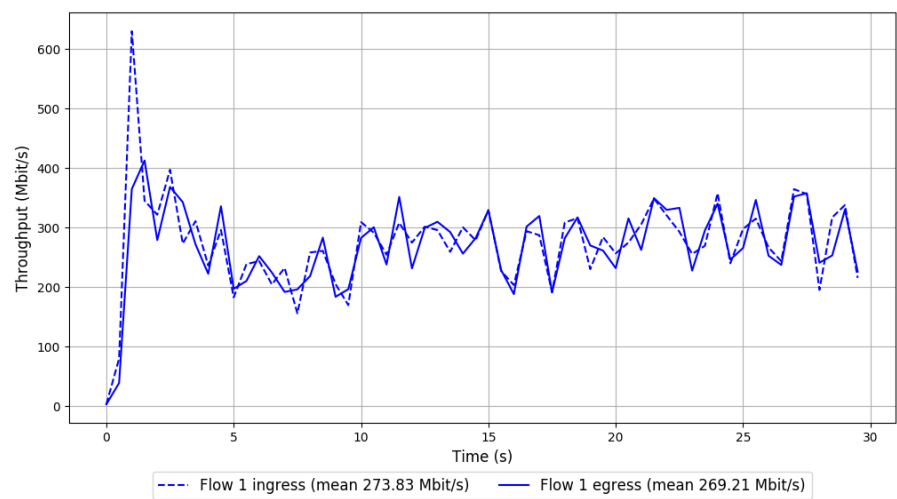
-- Flow 1:

Average throughput: 269.21 Mbit/s

95th percentile per-packet one-way delay: 78.845 ms

Loss rate: 1.83%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-16 02:04:42

End at: 2017-11-16 02:05:12

Below is generated by plot.py at 2017-11-16 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.14 Mbit/s

95th percentile per-packet one-way delay: 178.813 ms

Loss rate: 1.48%

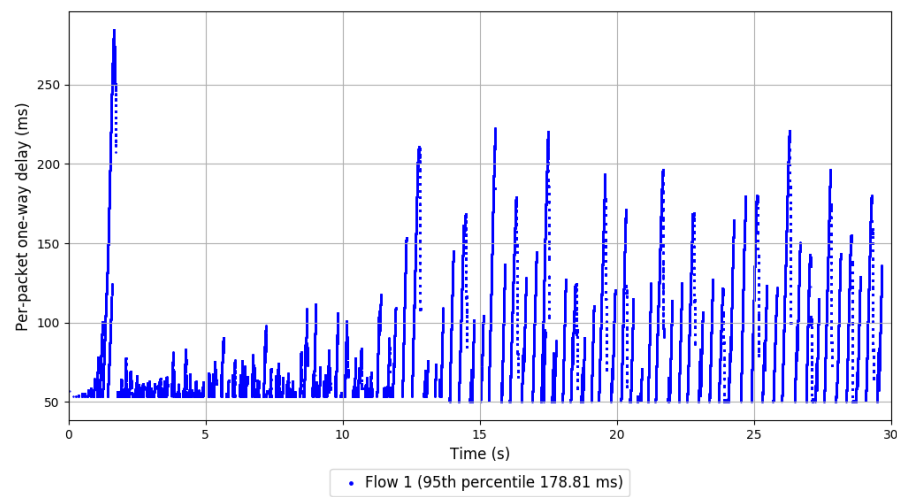
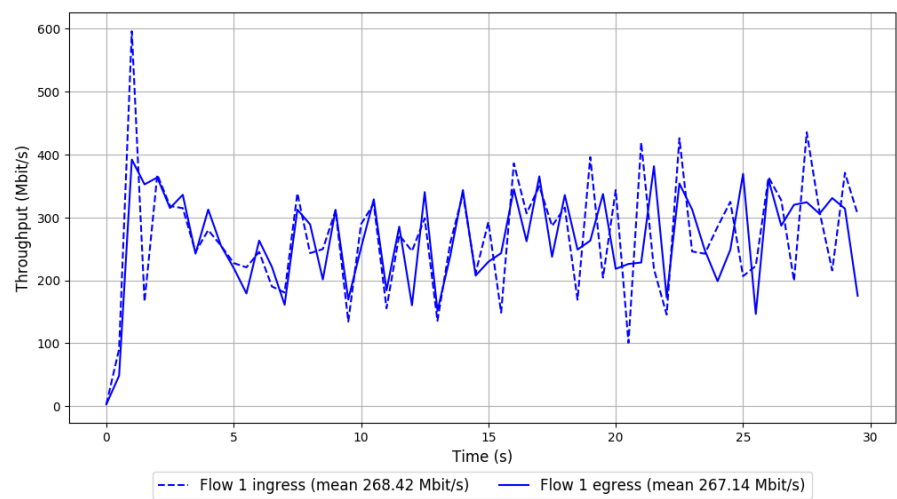
-- Flow 1:

Average throughput: 267.14 Mbit/s

95th percentile per-packet one-way delay: 178.813 ms

Loss rate: 1.48%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 02:14:59

End at: 2017-11-16 02:15:29

Below is generated by plot.py at 2017-11-16 05:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.70 Mbit/s

95th percentile per-packet one-way delay: 81.019 ms

Loss rate: 0.64%

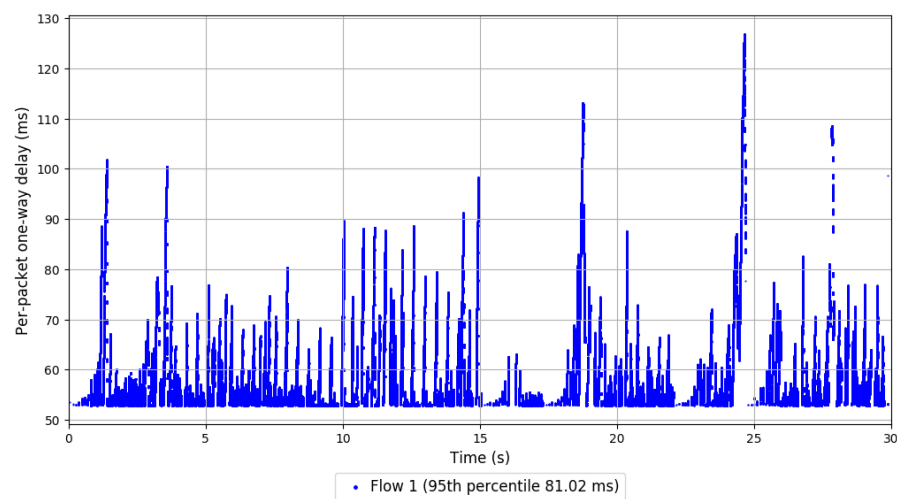
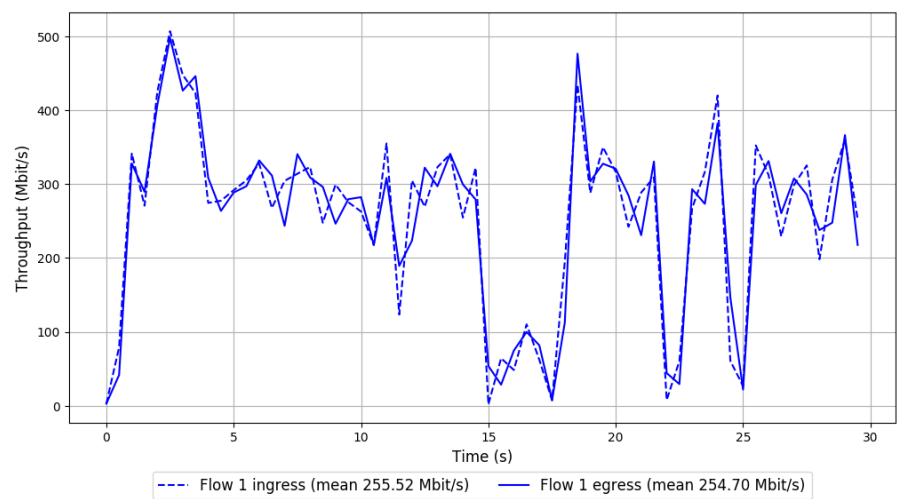
-- Flow 1:

Average throughput: 254.70 Mbit/s

95th percentile per-packet one-way delay: 81.019 ms

Loss rate: 0.64%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-16 02:25:14

End at: 2017-11-16 02:25:44

Below is generated by plot.py at 2017-11-16 05:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.77 Mbit/s

95th percentile per-packet one-way delay: 105.241 ms

Loss rate: 0.88%

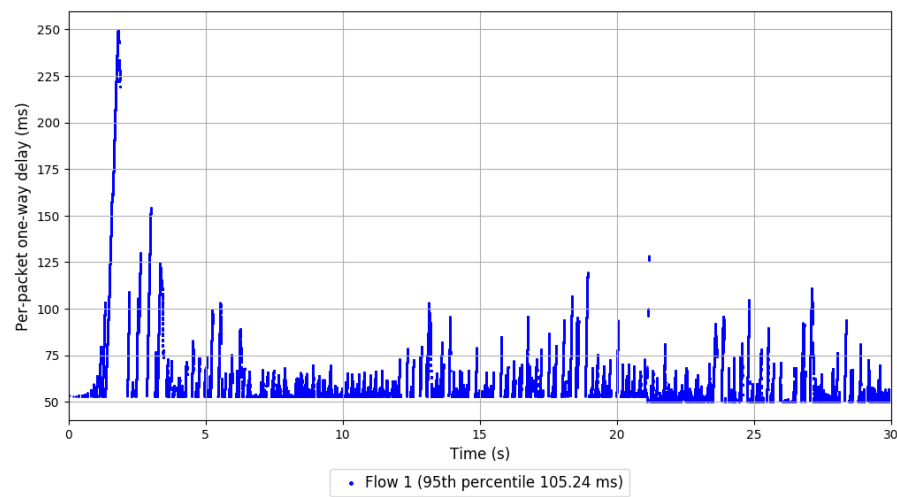
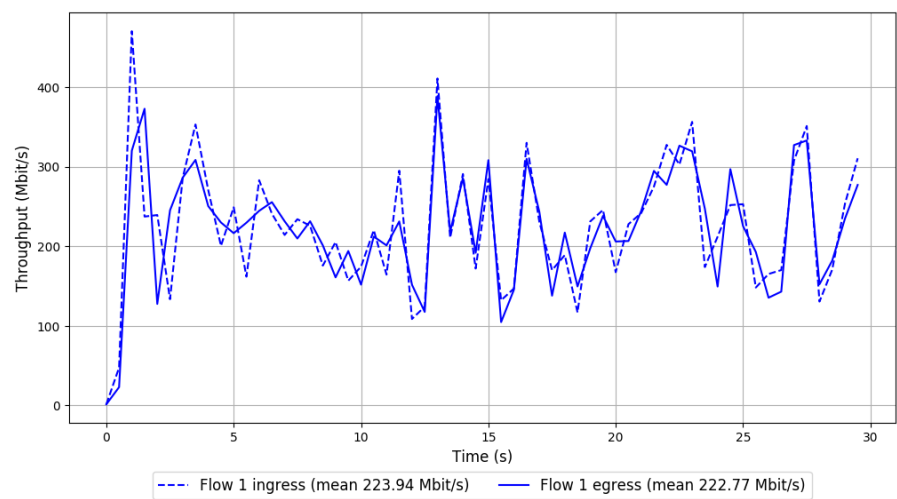
-- Flow 1:

Average throughput: 222.77 Mbit/s

95th percentile per-packet one-way delay: 105.241 ms

Loss rate: 0.88%

Run 8: Report of Verus — Data Link

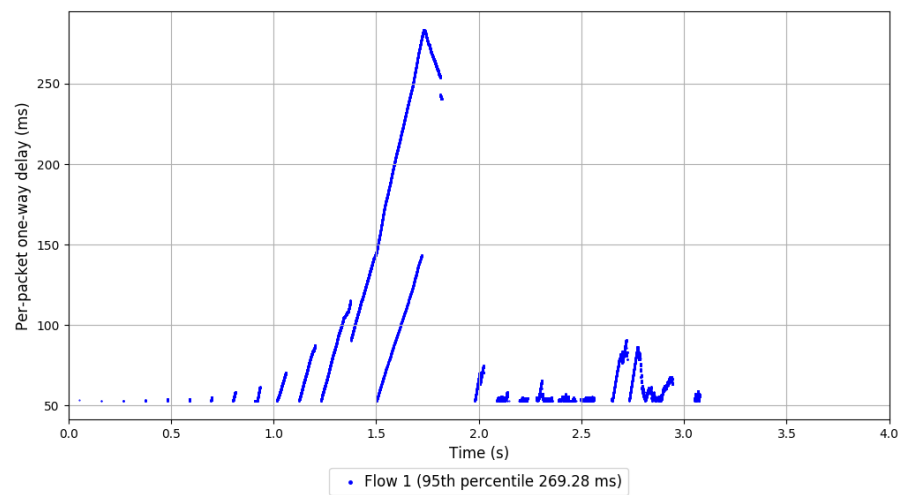
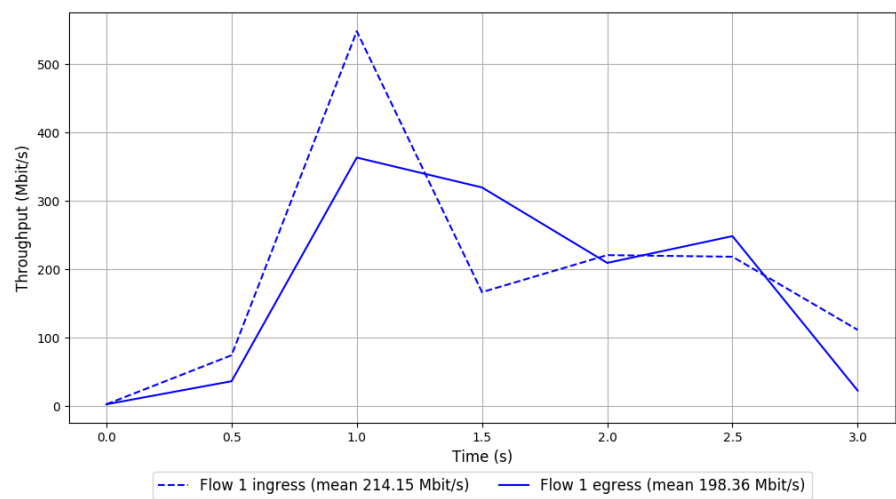


Run 9: Statistics of Verus

Start at: 2017-11-16 02:35:50

End at: 2017-11-16 02:36:20

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 02:46:01

End at: 2017-11-16 02:46:31

Below is generated by plot.py at 2017-11-16 05:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.59 Mbit/s

95th percentile per-packet one-way delay: 185.502 ms

Loss rate: 1.90%

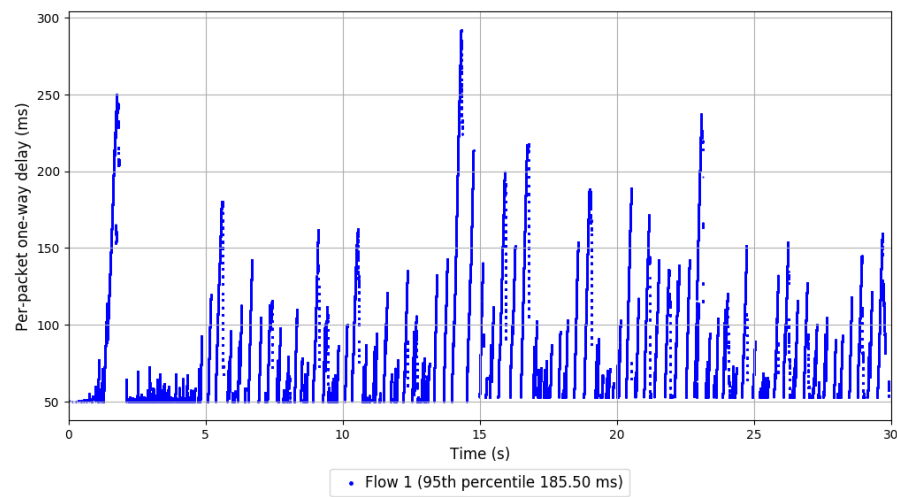
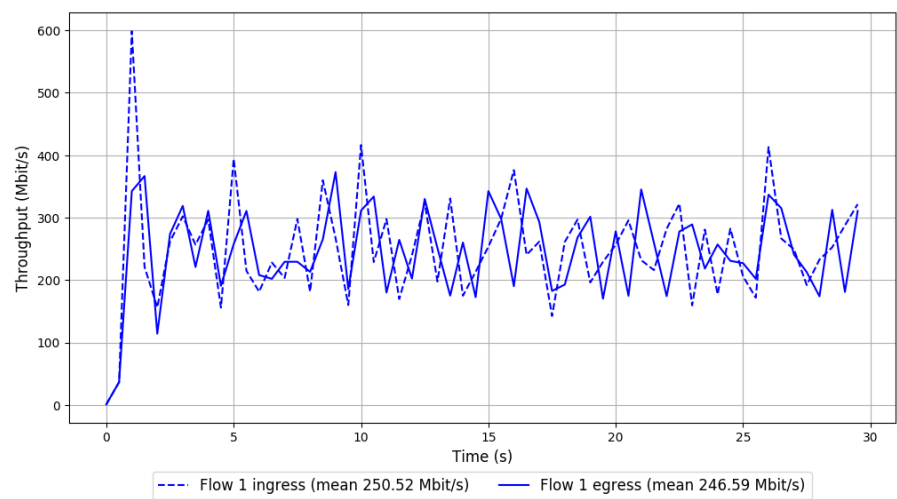
-- Flow 1:

Average throughput: 246.59 Mbit/s

95th percentile per-packet one-way delay: 185.502 ms

Loss rate: 1.90%

Run 10: Report of Verus — Data Link

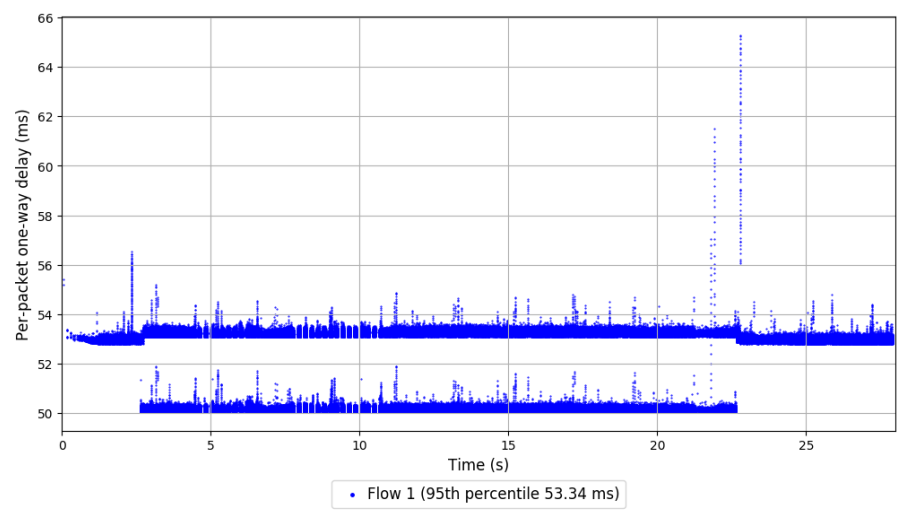
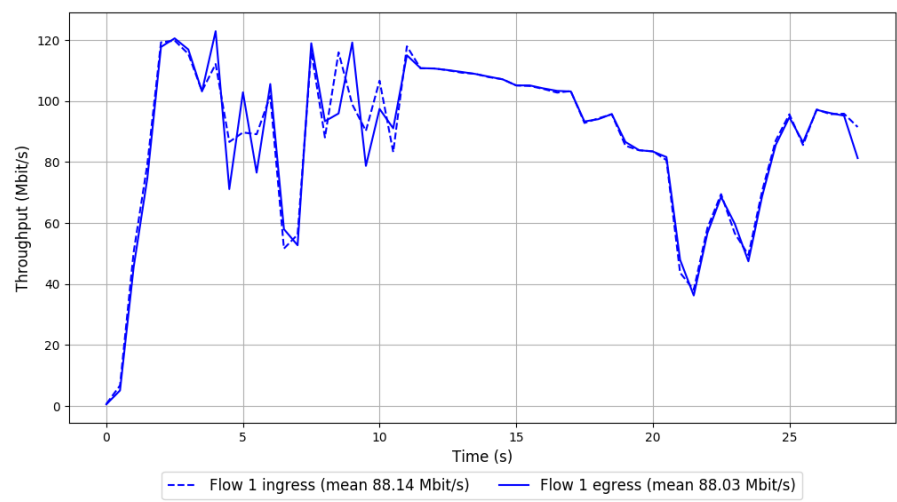


```
Run 1: Statistics of Copa

Start at: 2017-11-16 01:16:11
End at: 2017-11-16 01:16:41

# Below is generated by plot.py at 2017-11-16 05:12:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.03 Mbit/s
95th percentile per-packet one-way delay: 53.337 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 88.03 Mbit/s
95th percentile per-packet one-way delay: 53.337 ms
Loss rate: 0.51%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 01:26:26

End at: 2017-11-16 01:26:56

Below is generated by plot.py at 2017-11-16 05:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 53.536 ms

Loss rate: 0.29%

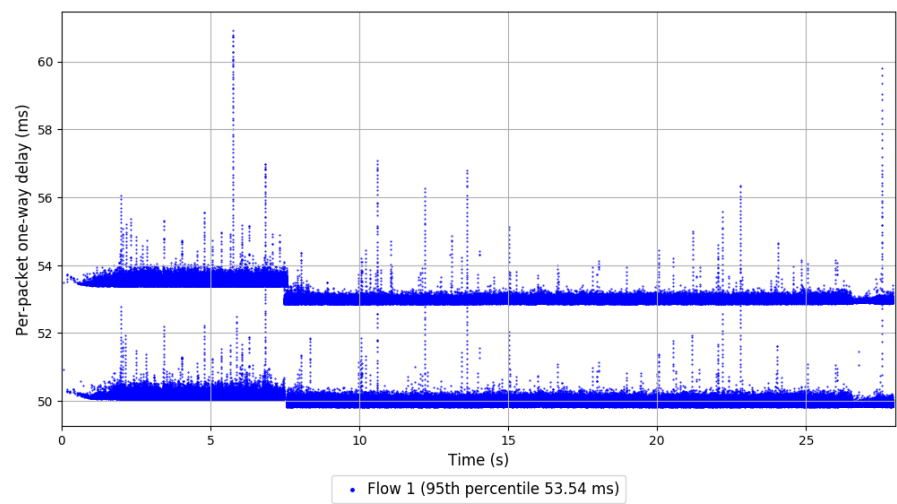
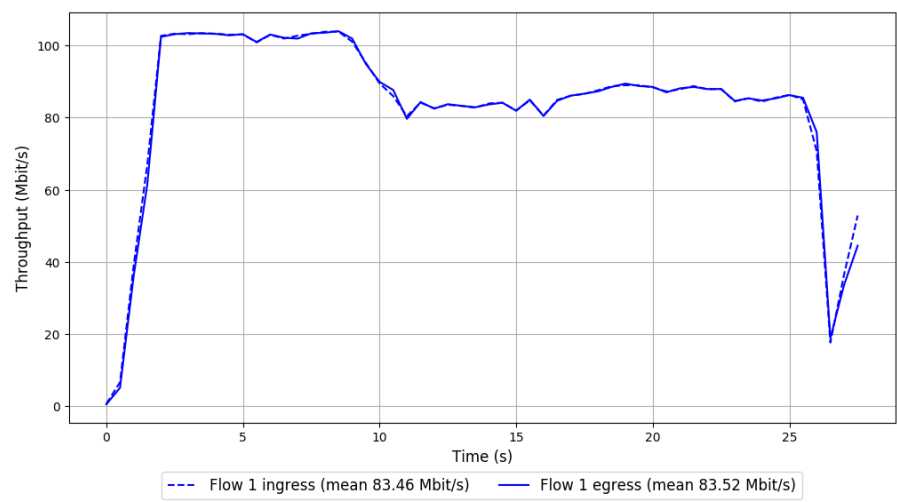
-- Flow 1:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 53.536 ms

Loss rate: 0.29%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 01:36:59

End at: 2017-11-16 01:37:29

Below is generated by plot.py at 2017-11-16 05:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 52.930 ms

Loss rate: 0.15%

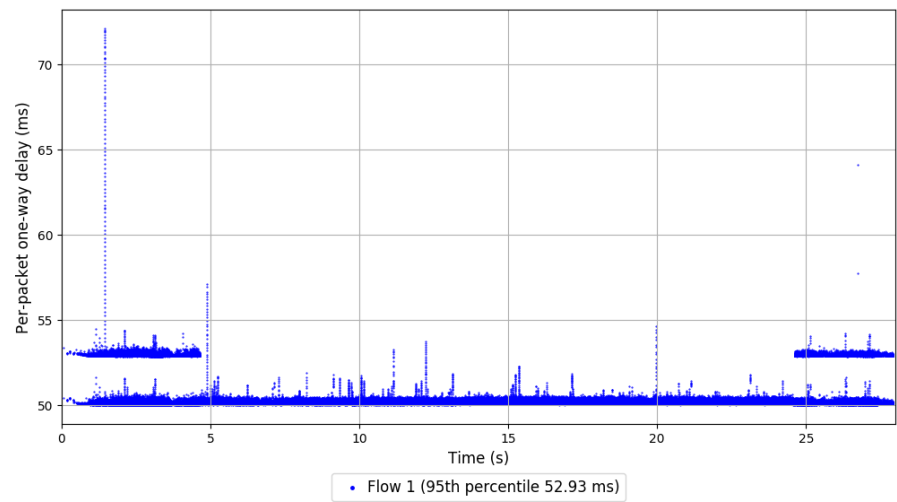
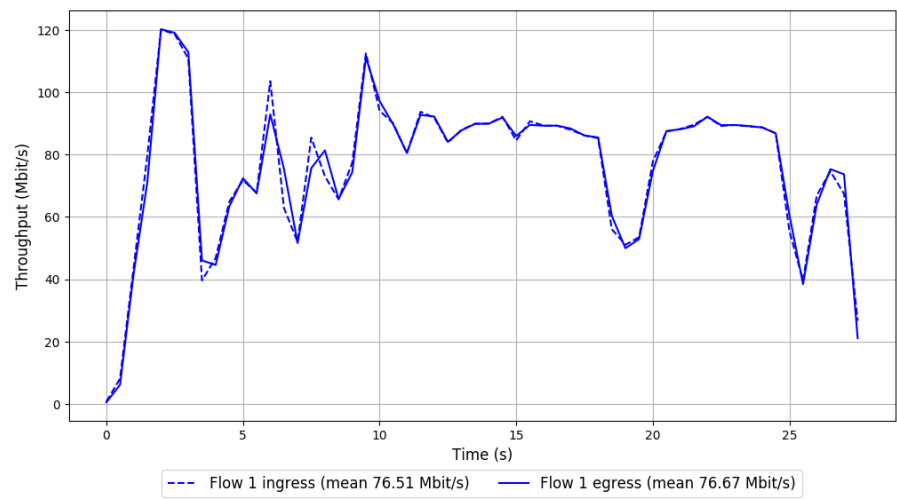
-- Flow 1:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 52.930 ms

Loss rate: 0.15%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-16 01:47:08

End at: 2017-11-16 01:47:38

Below is generated by plot.py at 2017-11-16 05:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 0.38%

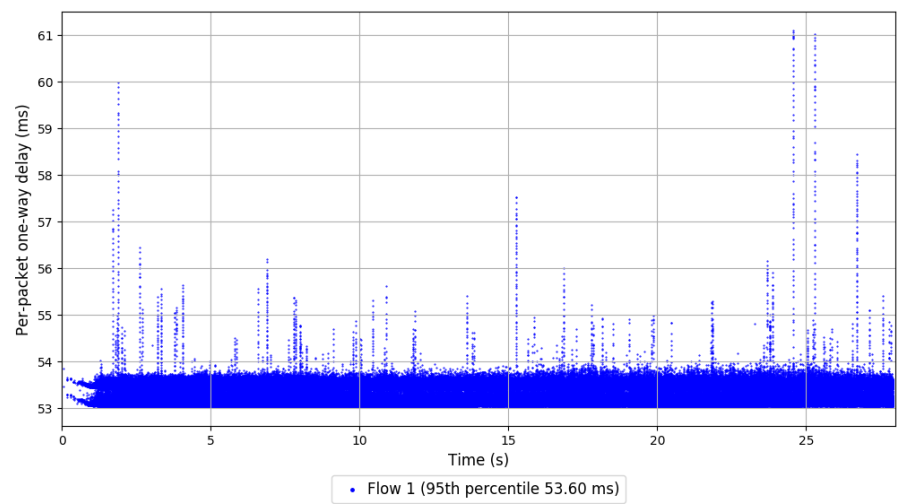
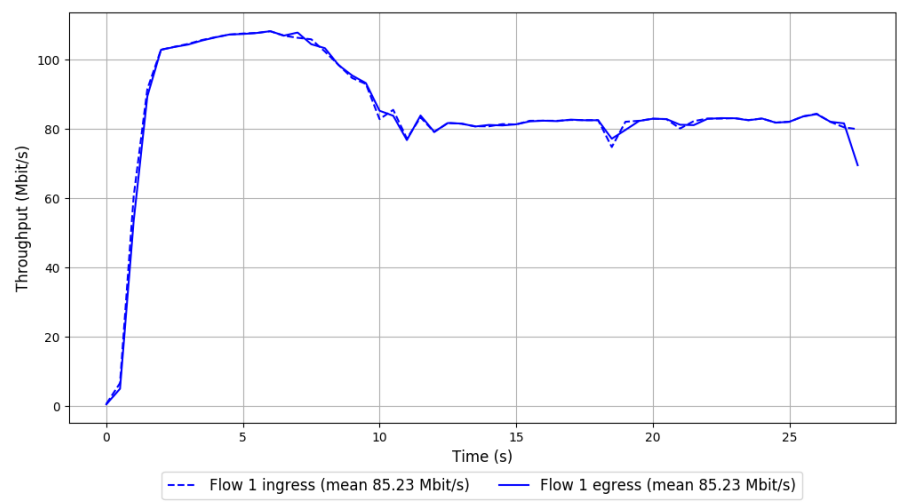
-- Flow 1:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 0.38%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-16 01:57:40

End at: 2017-11-16 01:58:10

Below is generated by plot.py at 2017-11-16 05:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 50.931 ms

Loss rate: 0.37%

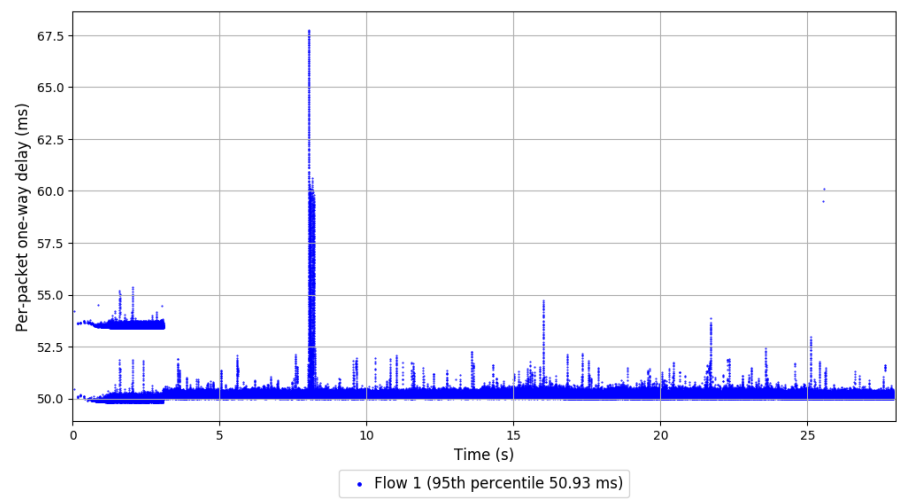
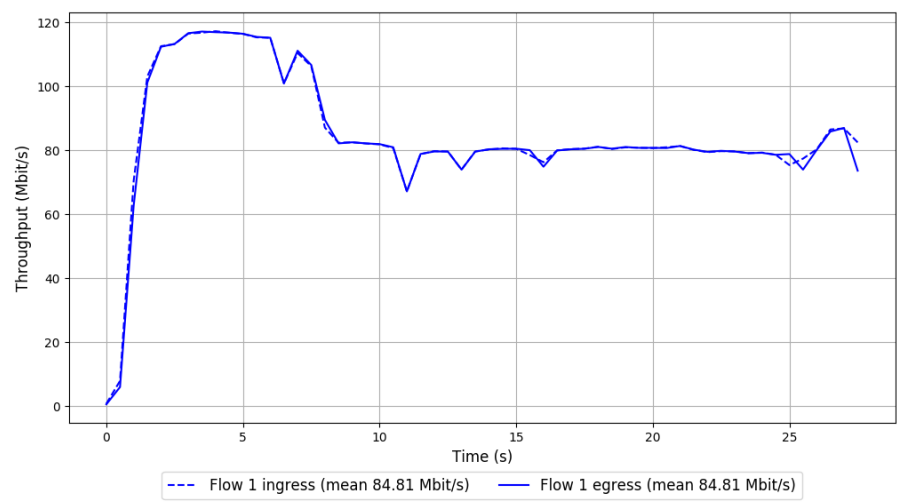
-- Flow 1:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 50.931 ms

Loss rate: 0.37%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-16 02:07:40

End at: 2017-11-16 02:08:10

Below is generated by plot.py at 2017-11-16 05:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.54 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.38%

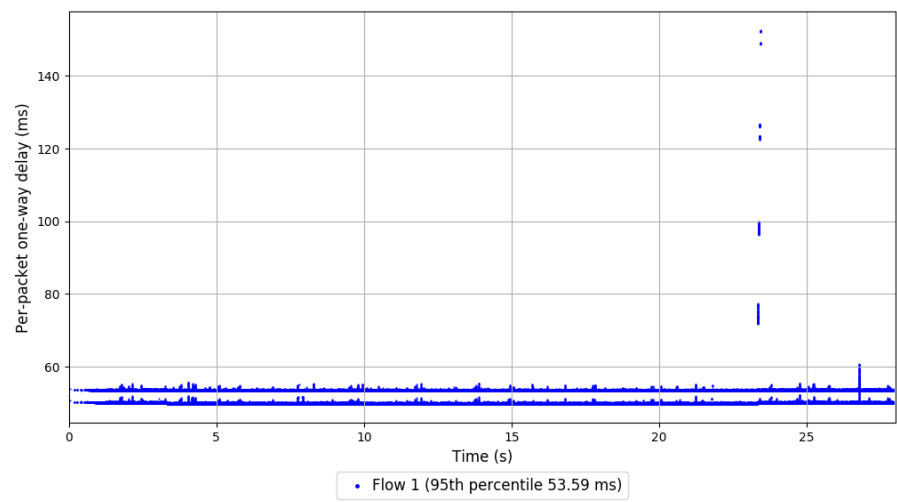
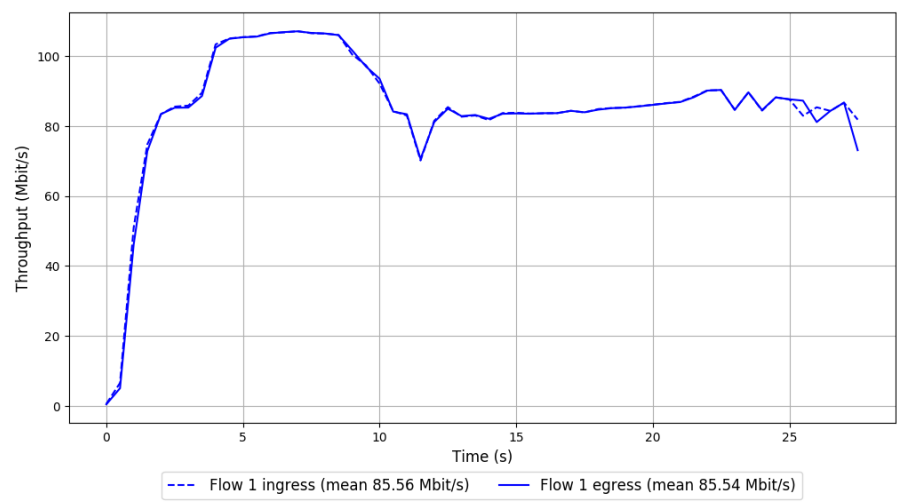
-- Flow 1:

Average throughput: 85.54 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.38%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 02:18:02

End at: 2017-11-16 02:18:32

Below is generated by plot.py at 2017-11-16 05:12:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 53.181 ms

Loss rate: 0.39%

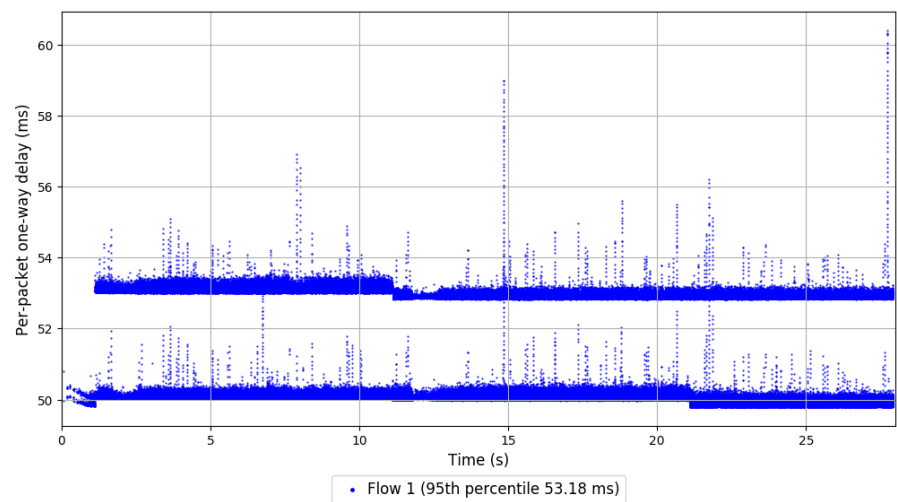
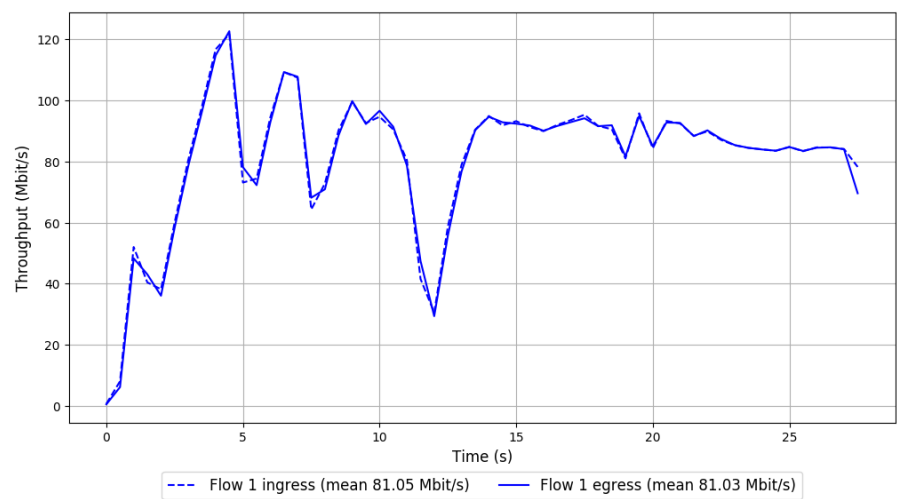
-- Flow 1:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 53.181 ms

Loss rate: 0.39%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-16 02:28:13

End at: 2017-11-16 02:28:43

Below is generated by plot.py at 2017-11-16 05:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.29%

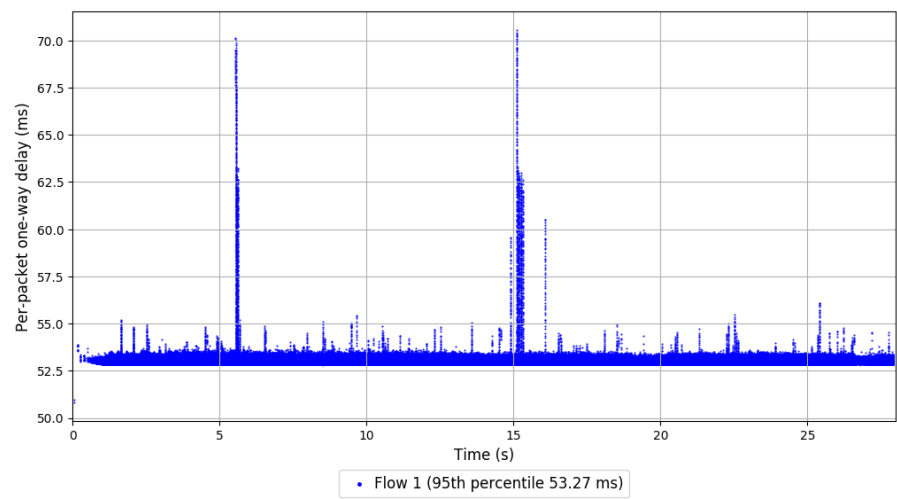
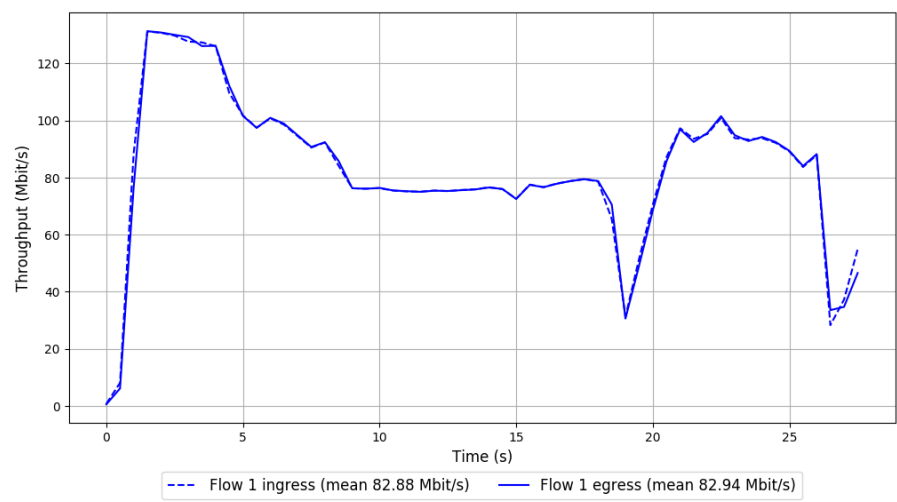
-- Flow 1:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.29%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-16 02:38:37

End at: 2017-11-16 02:39:07

Below is generated by plot.py at 2017-11-16 05:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 53.184 ms

Loss rate: 0.18%

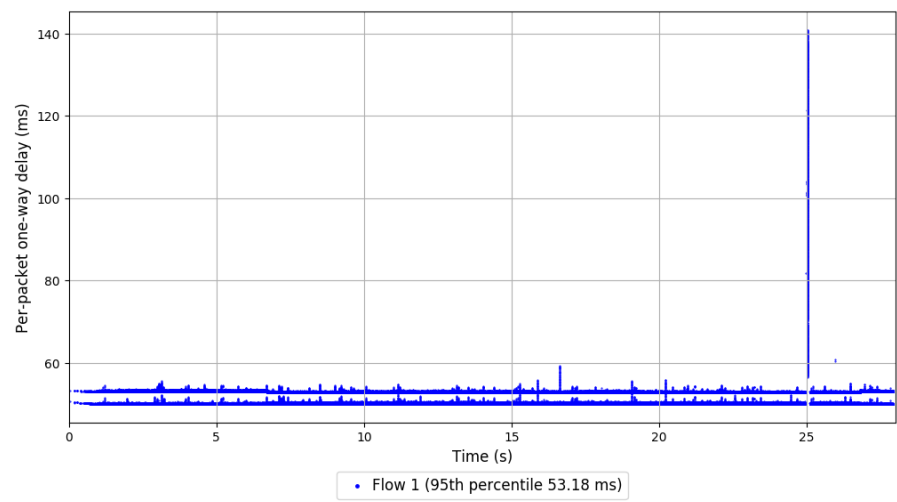
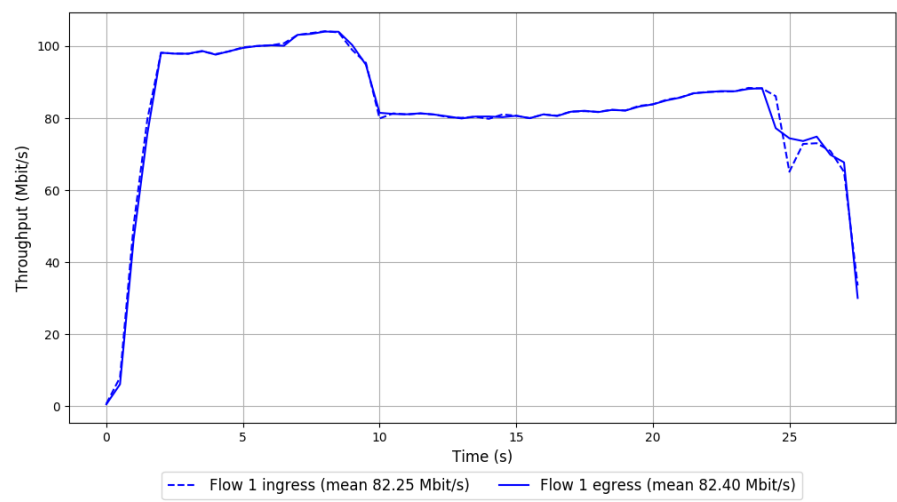
-- Flow 1:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 53.184 ms

Loss rate: 0.18%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-16 02:49:03

End at: 2017-11-16 02:49:33

Below is generated by plot.py at 2017-11-16 05:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 52.996 ms

Loss rate: 0.38%

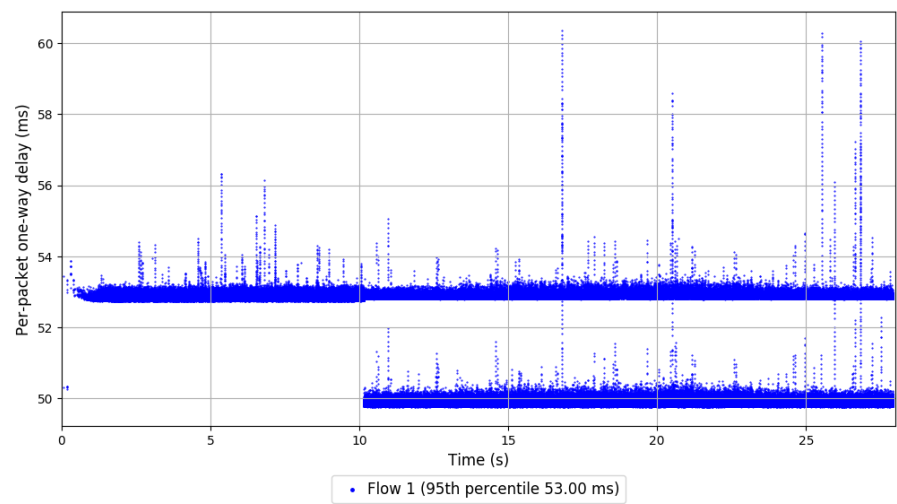
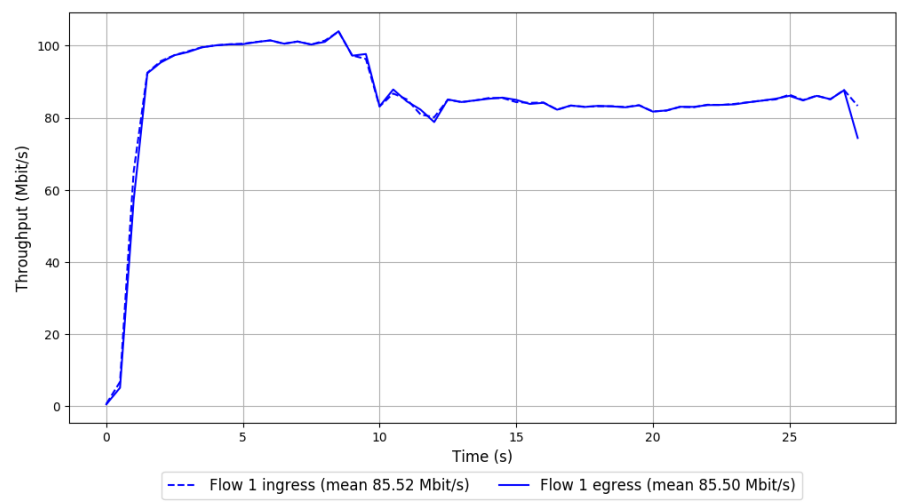
-- Flow 1:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 52.996 ms

Loss rate: 0.38%

Run 10: Report of Copa — Data Link

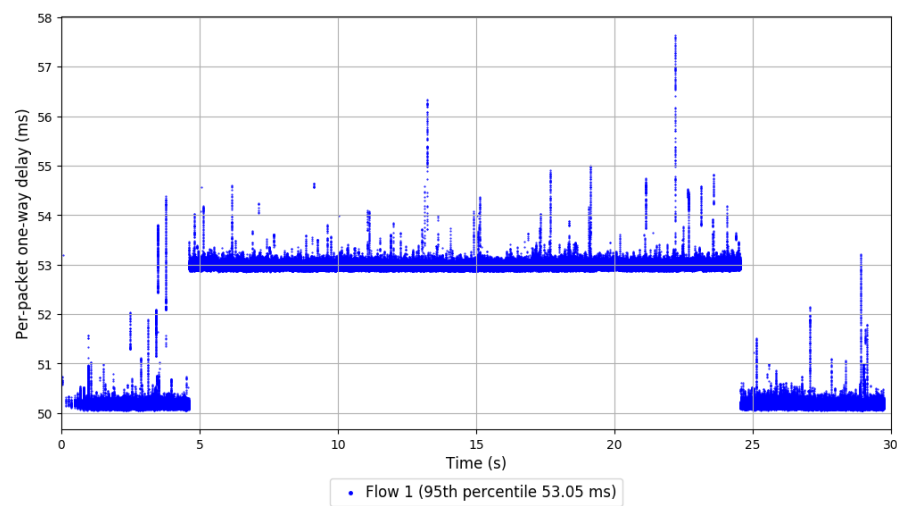
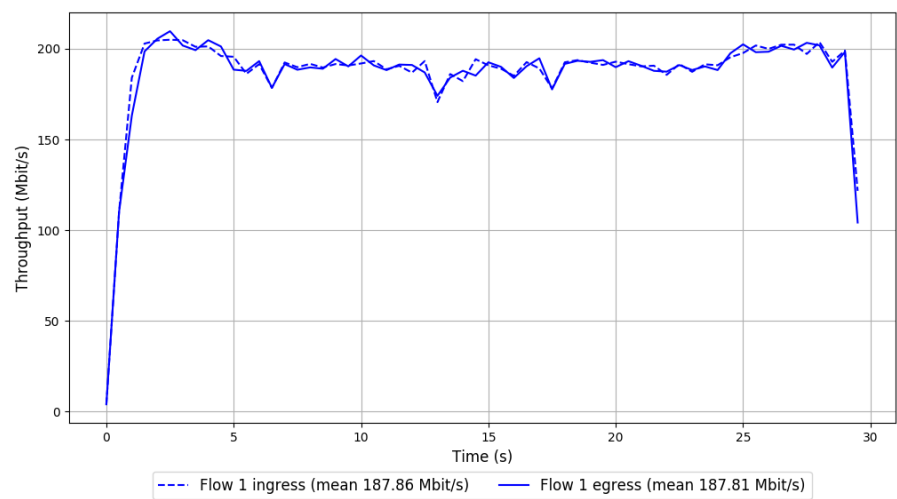


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 01:15:21
End at: 2017-11-16 01:15:51

# Below is generated by plot.py at 2017-11-16 05:13:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.81 Mbit/s
95th percentile per-packet one-way delay: 53.055 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 187.81 Mbit/s
95th percentile per-packet one-way delay: 53.055 ms
Loss rate: 0.37%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-16 01:25:36

End at: 2017-11-16 01:26:06

Below is generated by plot.py at 2017-11-16 05:13:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.02 Mbit/s

95th percentile per-packet one-way delay: 50.294 ms

Loss rate: 0.35%

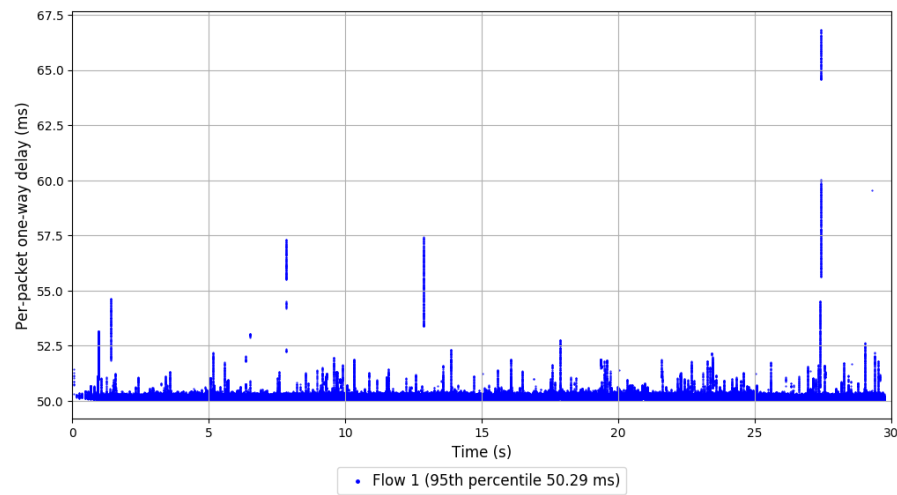
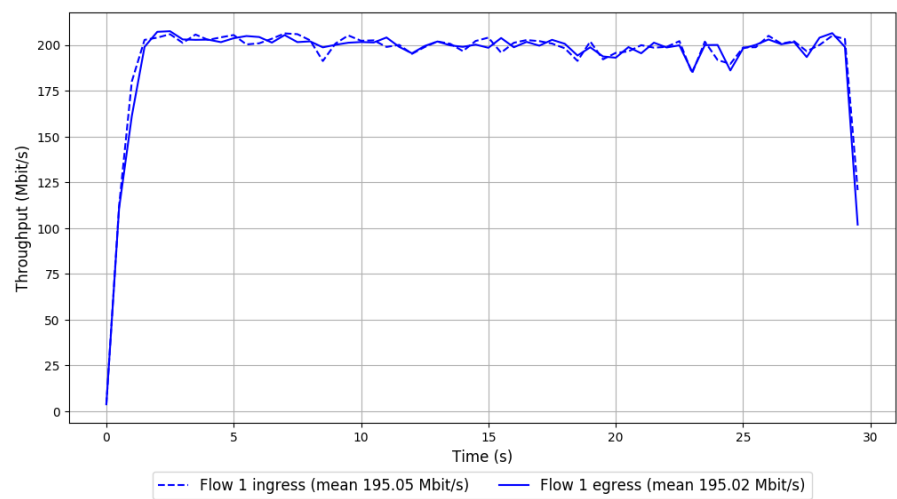
-- Flow 1:

Average throughput: 195.02 Mbit/s

95th percentile per-packet one-way delay: 50.294 ms

Loss rate: 0.35%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-16 01:36:09

End at: 2017-11-16 01:36:39

Below is generated by plot.py at 2017-11-16 05:14:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.76 Mbit/s

95th percentile per-packet one-way delay: 53.064 ms

Loss rate: 0.36%

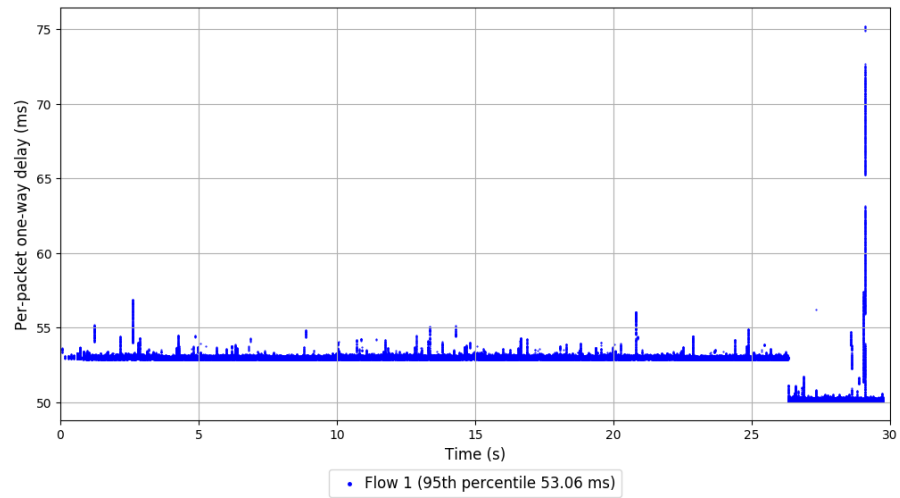
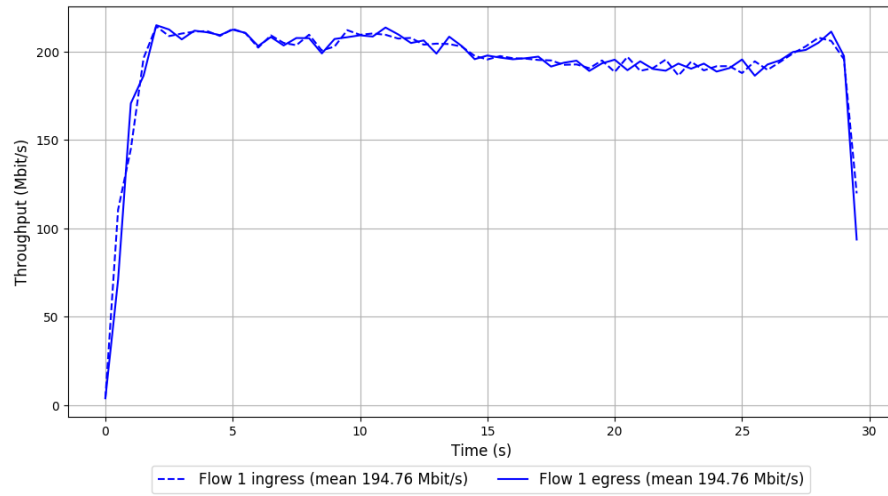
-- Flow 1:

Average throughput: 194.76 Mbit/s

95th percentile per-packet one-way delay: 53.064 ms

Loss rate: 0.36%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-16 01:46:18

End at: 2017-11-16 01:46:48

Below is generated by plot.py at 2017-11-16 05:15:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.68 Mbit/s

95th percentile per-packet one-way delay: 53.633 ms

Loss rate: 0.38%

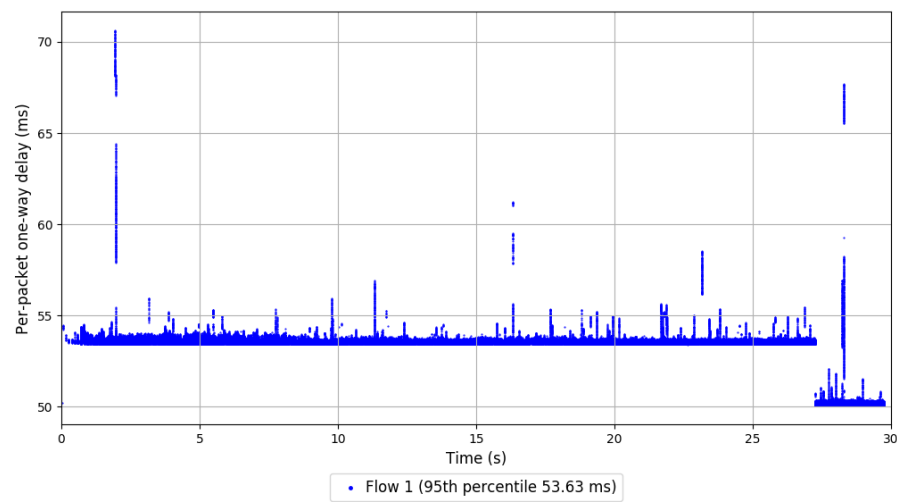
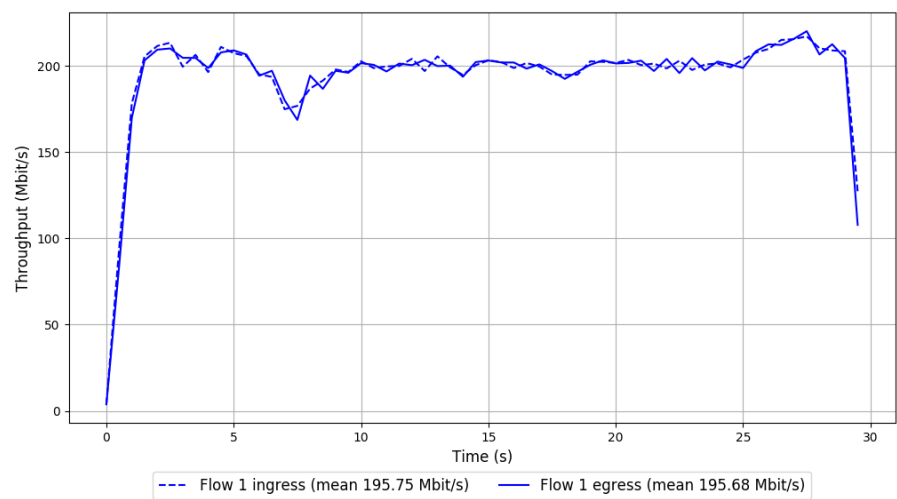
-- Flow 1:

Average throughput: 195.68 Mbit/s

95th percentile per-packet one-way delay: 53.633 ms

Loss rate: 0.38%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-16 01:56:50

End at: 2017-11-16 01:57:20

Below is generated by plot.py at 2017-11-16 05:15:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.61 Mbit/s

95th percentile per-packet one-way delay: 53.636 ms

Loss rate: 0.33%

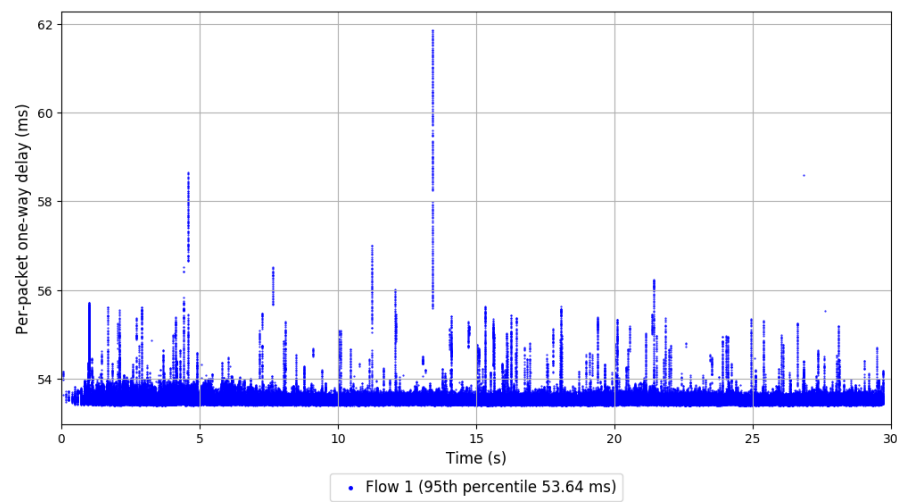
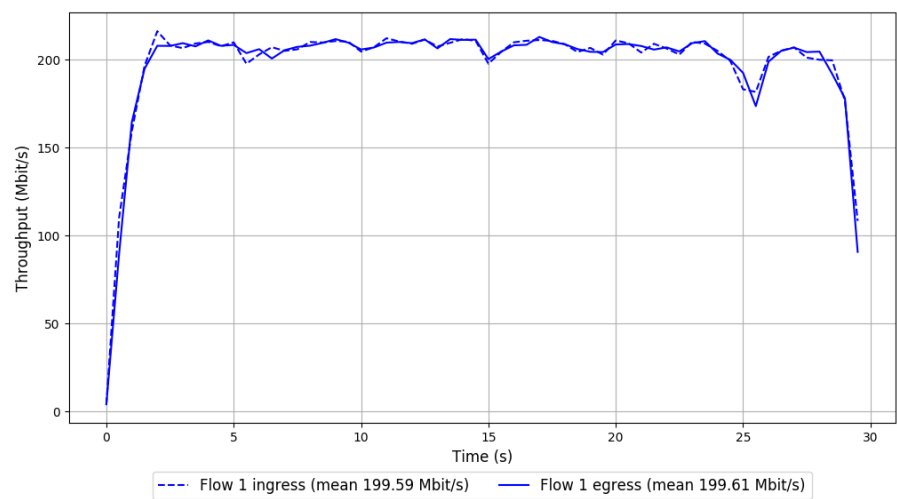
-- Flow 1:

Average throughput: 199.61 Mbit/s

95th percentile per-packet one-way delay: 53.636 ms

Loss rate: 0.33%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-16 02:06:51

End at: 2017-11-16 02:07:21

Below is generated by plot.py at 2017-11-16 05:15:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.37 Mbit/s

95th percentile per-packet one-way delay: 50.252 ms

Loss rate: 0.37%

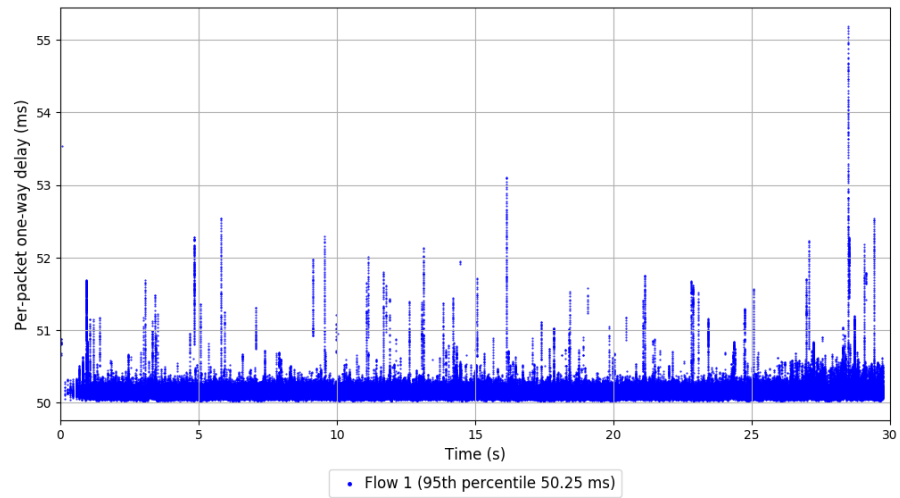
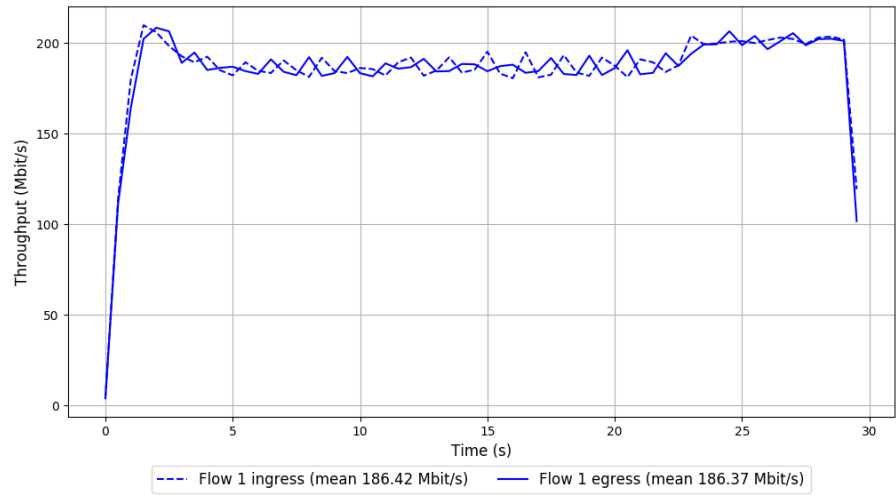
-- Flow 1:

Average throughput: 186.37 Mbit/s

95th percentile per-packet one-way delay: 50.252 ms

Loss rate: 0.37%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 02:17:13

End at: 2017-11-16 02:17:43

Below is generated by plot.py at 2017-11-16 05:15:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.17 Mbit/s

95th percentile per-packet one-way delay: 53.026 ms

Loss rate: 0.38%

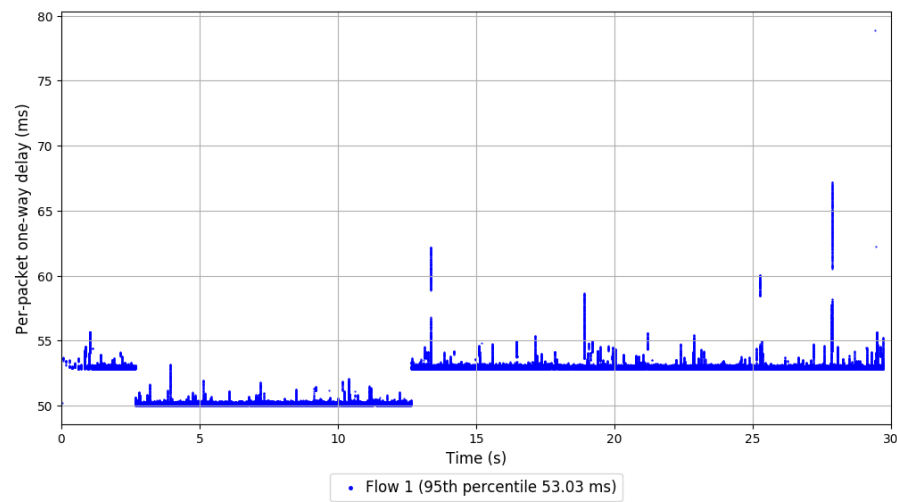
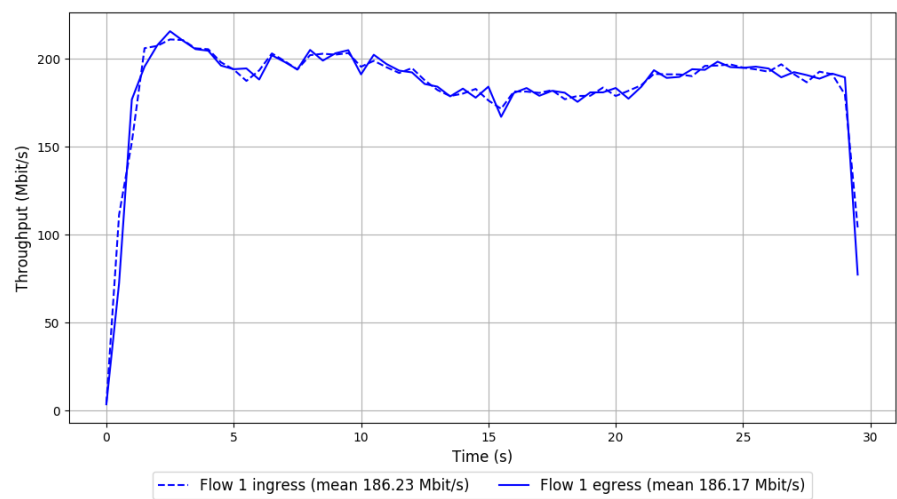
-- Flow 1:

Average throughput: 186.17 Mbit/s

95th percentile per-packet one-way delay: 53.026 ms

Loss rate: 0.38%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 02:27:23

End at: 2017-11-16 02:27:53

Below is generated by plot.py at 2017-11-16 05:16:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.33 Mbit/s

95th percentile per-packet one-way delay: 52.978 ms

Loss rate: 0.36%

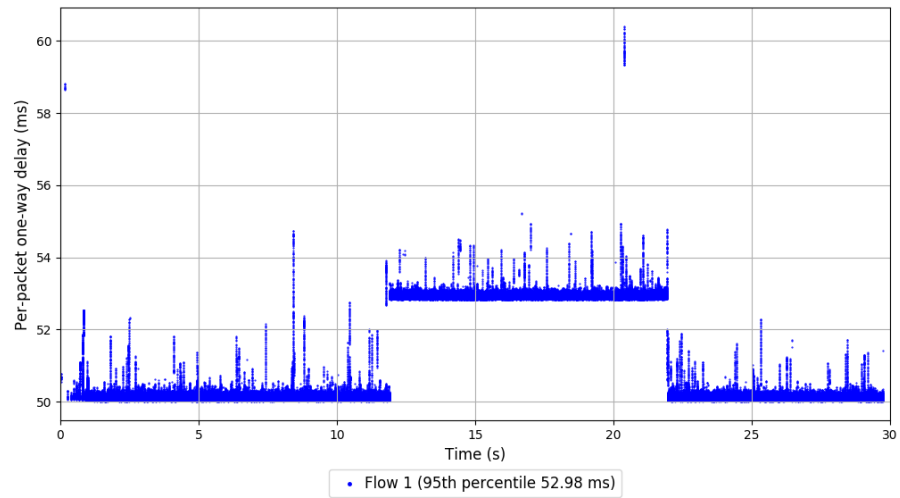
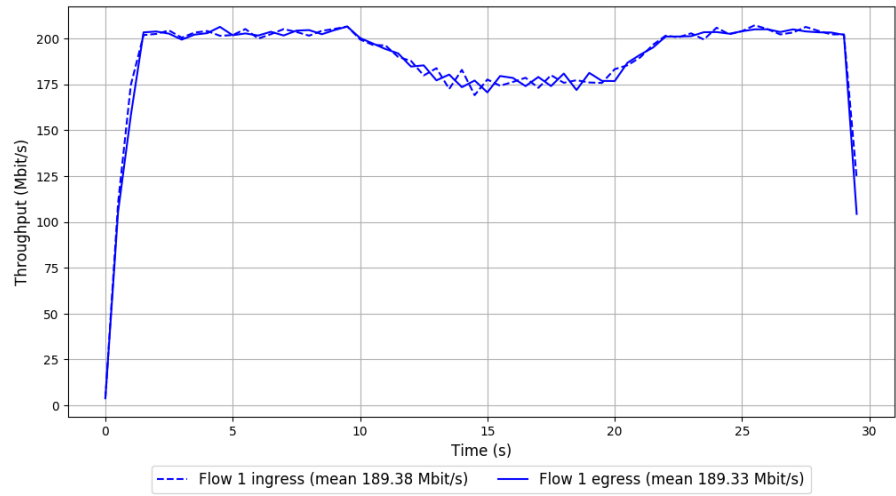
-- Flow 1:

Average throughput: 189.33 Mbit/s

95th percentile per-packet one-way delay: 52.978 ms

Loss rate: 0.36%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 02:37:46

End at: 2017-11-16 02:38:16

Below is generated by plot.py at 2017-11-16 05:16:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.22 Mbit/s

95th percentile per-packet one-way delay: 53.039 ms

Loss rate: 0.35%

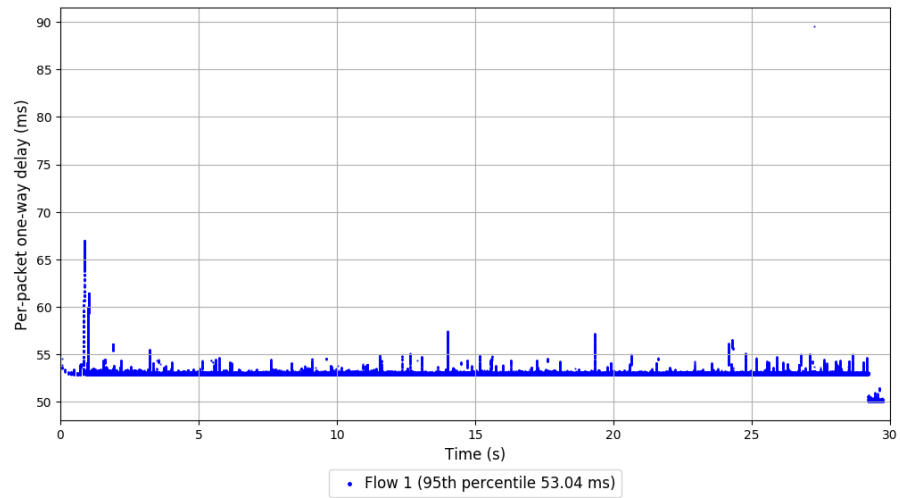
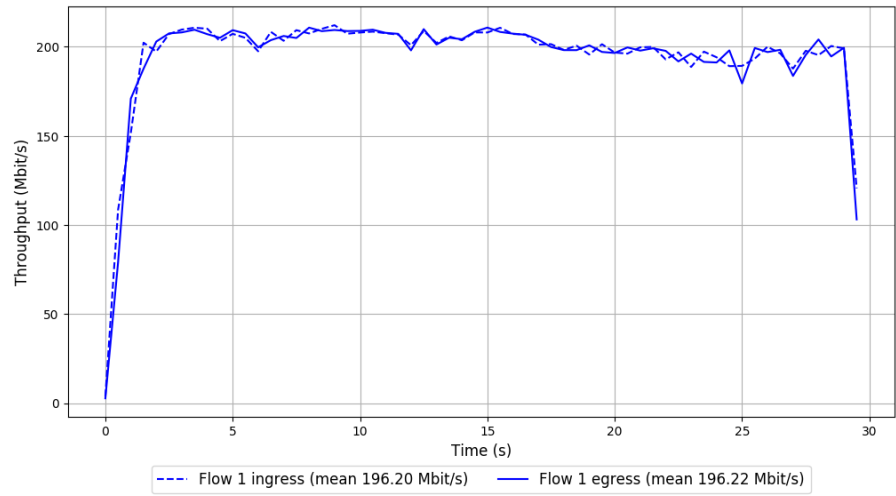
-- Flow 1:

Average throughput: 196.22 Mbit/s

95th percentile per-packet one-way delay: 53.039 ms

Loss rate: 0.35%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-16 02:48:13

End at: 2017-11-16 02:48:43

Below is generated by plot.py at 2017-11-16 05:16:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.33 Mbit/s

95th percentile per-packet one-way delay: 52.989 ms

Loss rate: 0.35%

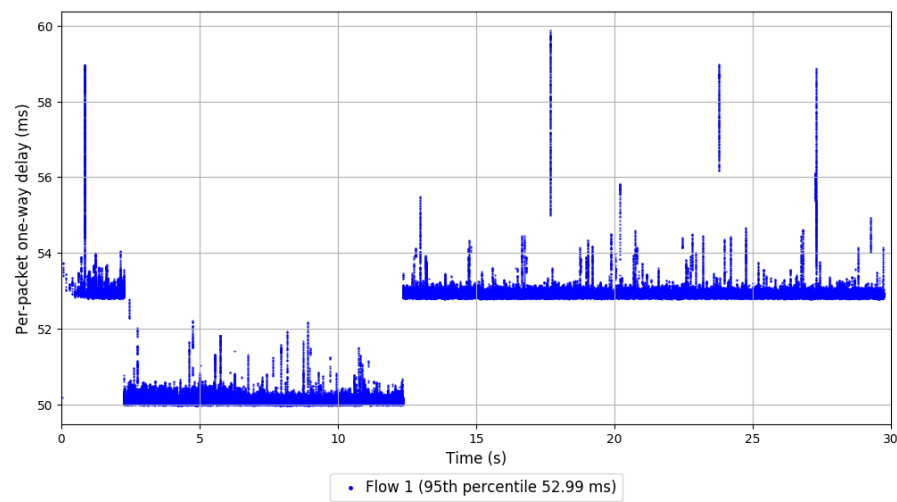
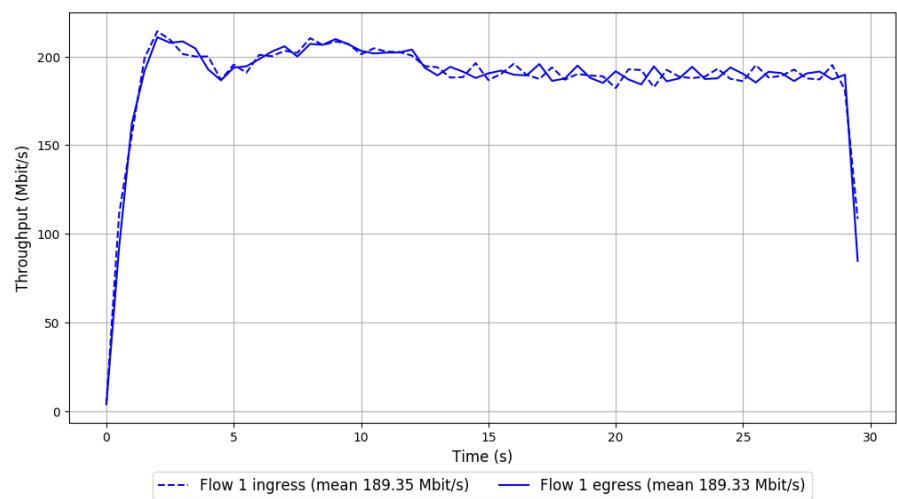
-- Flow 1:

Average throughput: 189.33 Mbit/s

95th percentile per-packet one-way delay: 52.989 ms

Loss rate: 0.35%

Run 10: Report of Indigo — Data Link

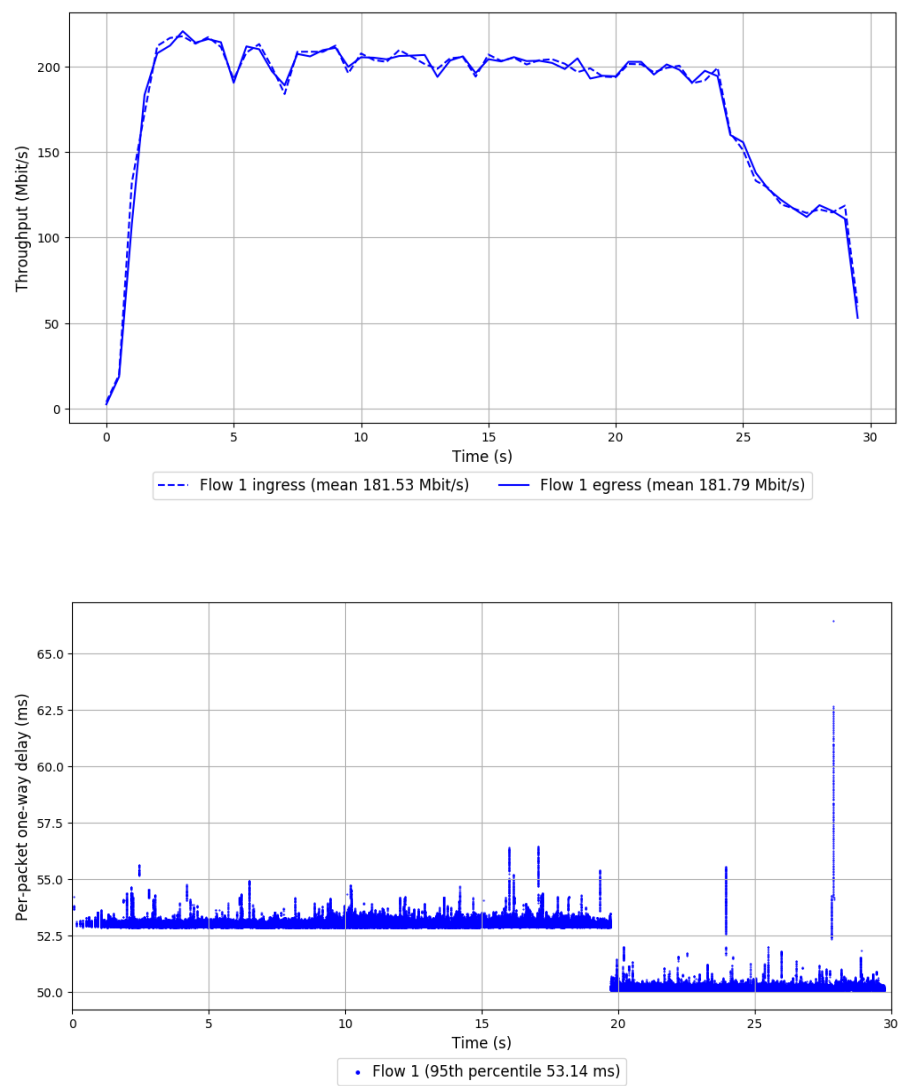


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 01:16:56
End at: 2017-11-16 01:17:26

# Below is generated by plot.py at 2017-11-16 05:17:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.79 Mbit/s
95th percentile per-packet one-way delay: 53.136 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 181.79 Mbit/s
95th percentile per-packet one-way delay: 53.136 ms
Loss rate: 0.22%
```

Run 1: Report of Indigo-calib — Data Link

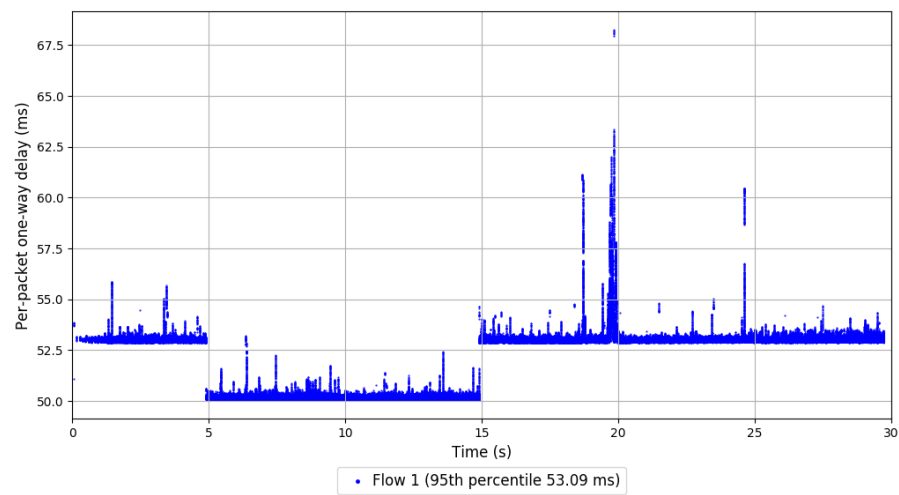
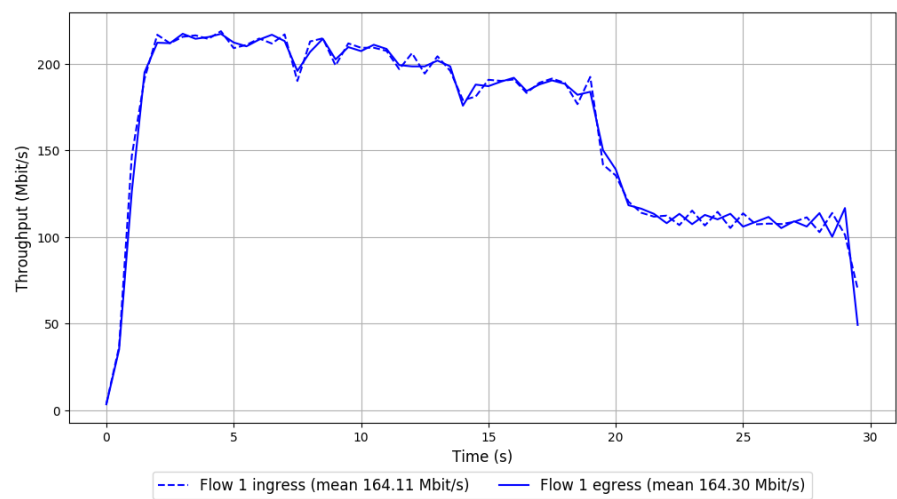


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 01:27:10
End at: 2017-11-16 01:27:40

# Below is generated by plot.py at 2017-11-16 05:18:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.30 Mbit/s
95th percentile per-packet one-way delay: 53.093 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 164.30 Mbit/s
95th percentile per-packet one-way delay: 53.093 ms
Loss rate: 0.25%
```

Run 2: Report of Indigo-calib — Data Link

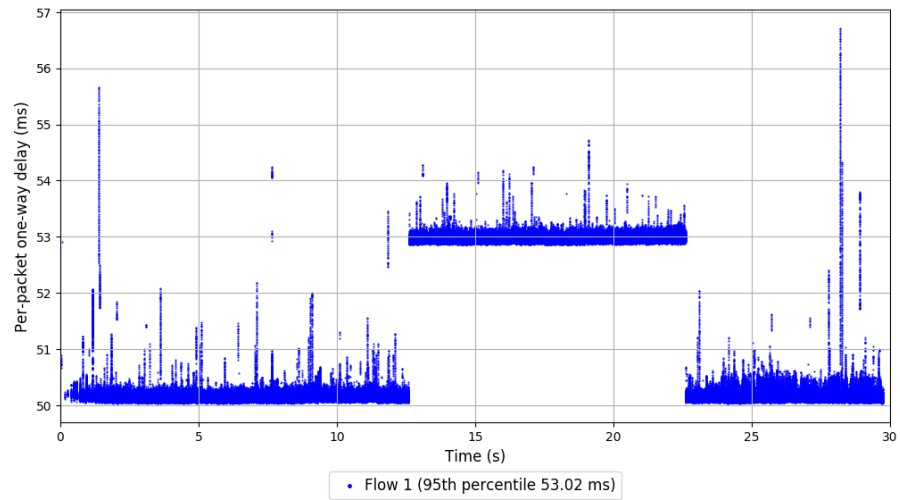
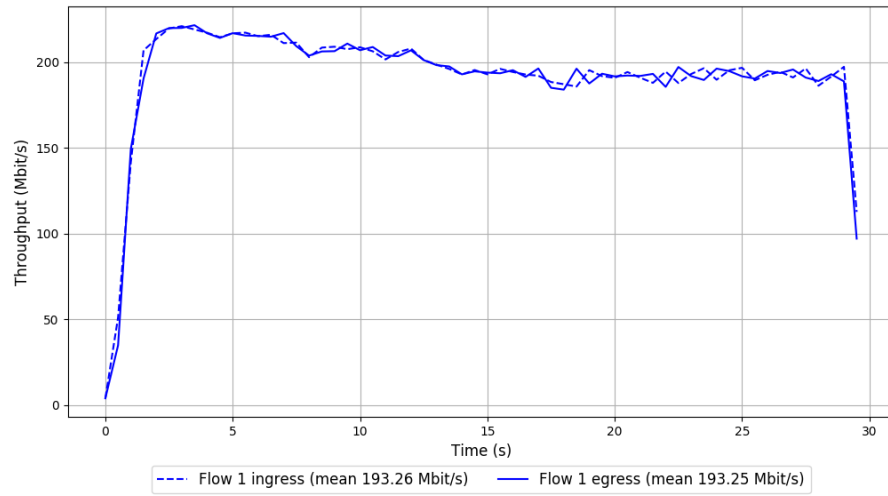


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 01:37:43
End at: 2017-11-16 01:38:13

# Below is generated by plot.py at 2017-11-16 05:18:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.25 Mbit/s
95th percentile per-packet one-way delay: 53.025 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 193.25 Mbit/s
95th percentile per-packet one-way delay: 53.025 ms
Loss rate: 0.35%
```

Run 3: Report of Indigo-calib — Data Link

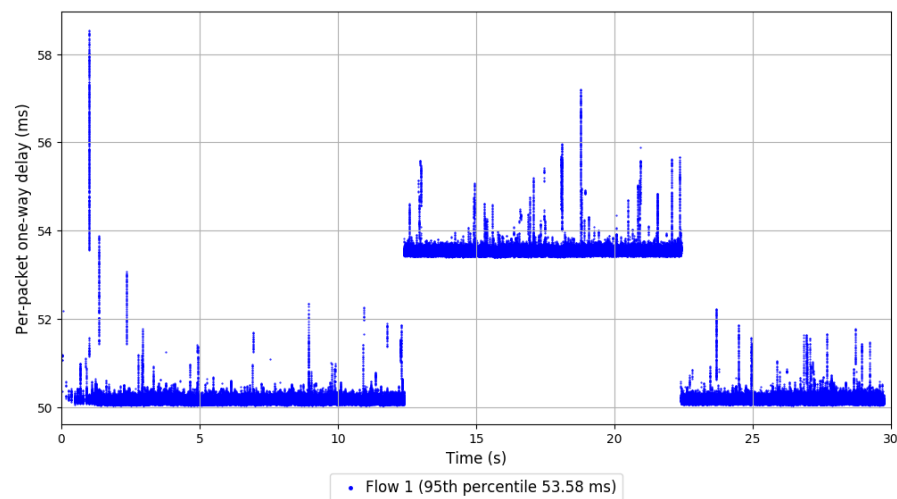
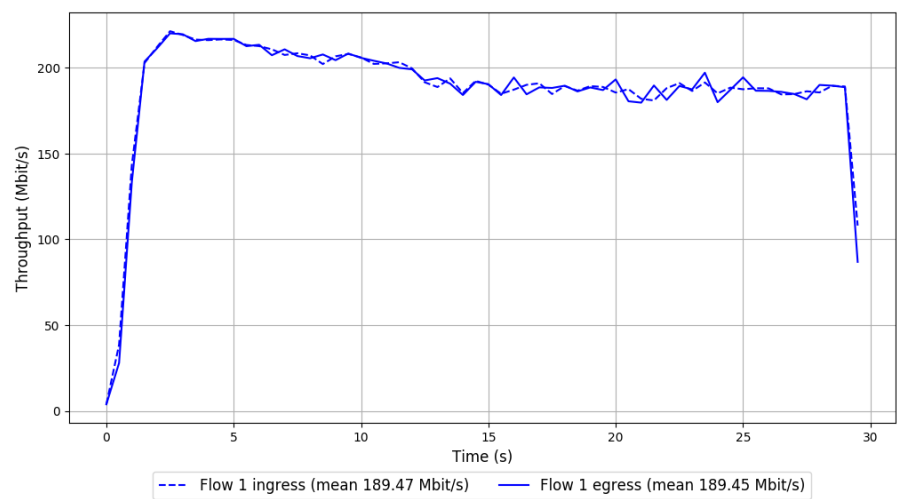


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 01:47:53
End at: 2017-11-16 01:48:23

# Below is generated by plot.py at 2017-11-16 05:18:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.45 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 189.45 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.35%
```

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 01:58:25

End at: 2017-11-16 01:58:55

Below is generated by plot.py at 2017-11-16 05:18:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.91 Mbit/s

95th percentile per-packet one-way delay: 50.261 ms

Loss rate: 0.34%

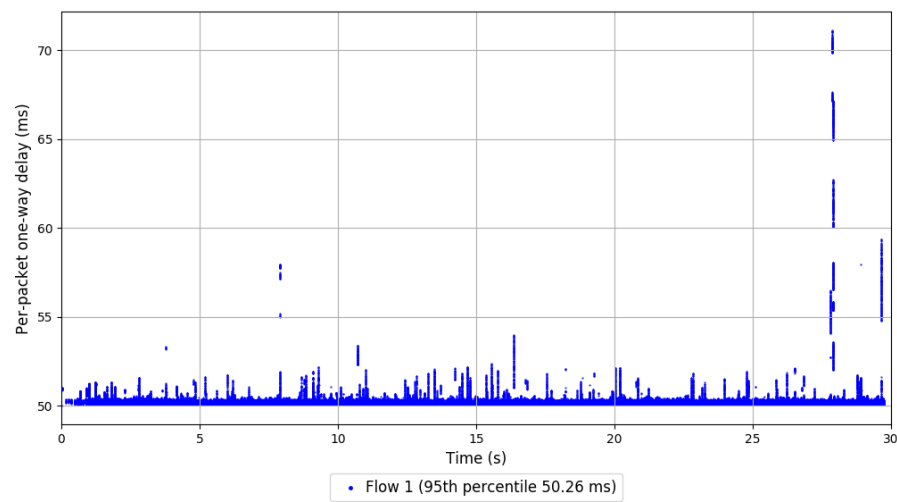
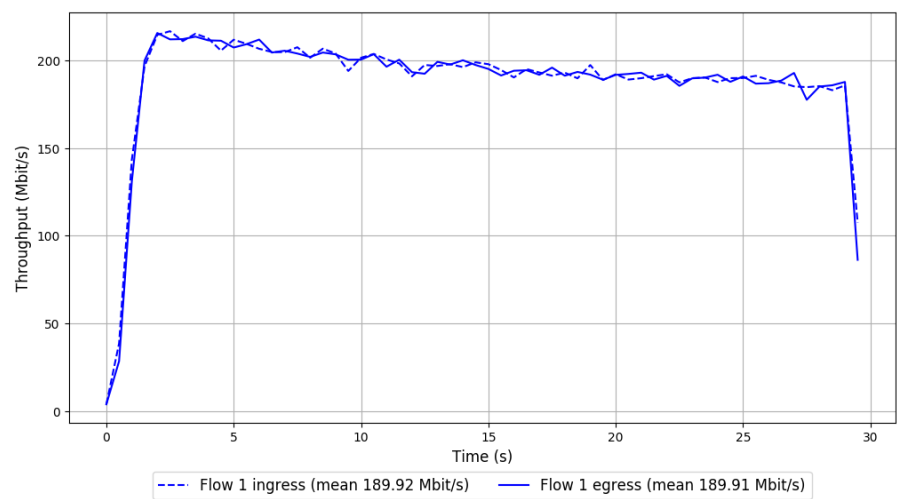
-- Flow 1:

Average throughput: 189.91 Mbit/s

95th percentile per-packet one-way delay: 50.261 ms

Loss rate: 0.34%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 02:08:25

End at: 2017-11-16 02:08:55

Below is generated by plot.py at 2017-11-16 05:18:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.33 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.34%

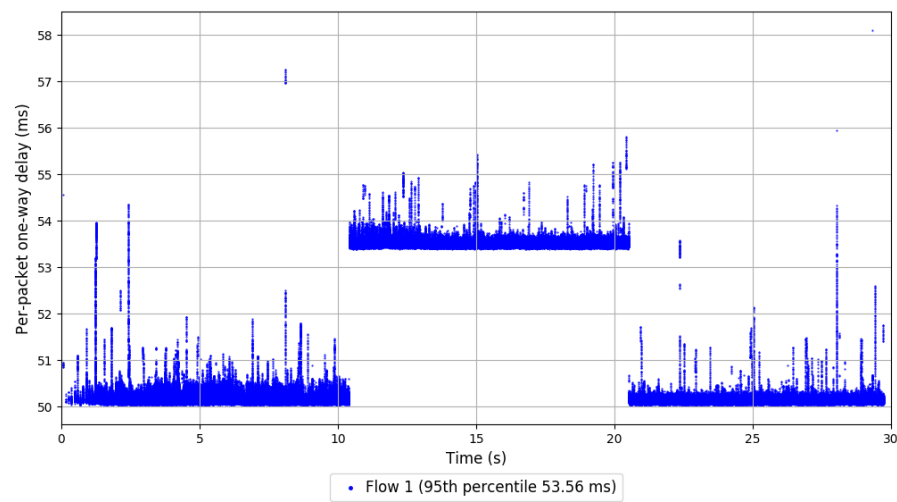
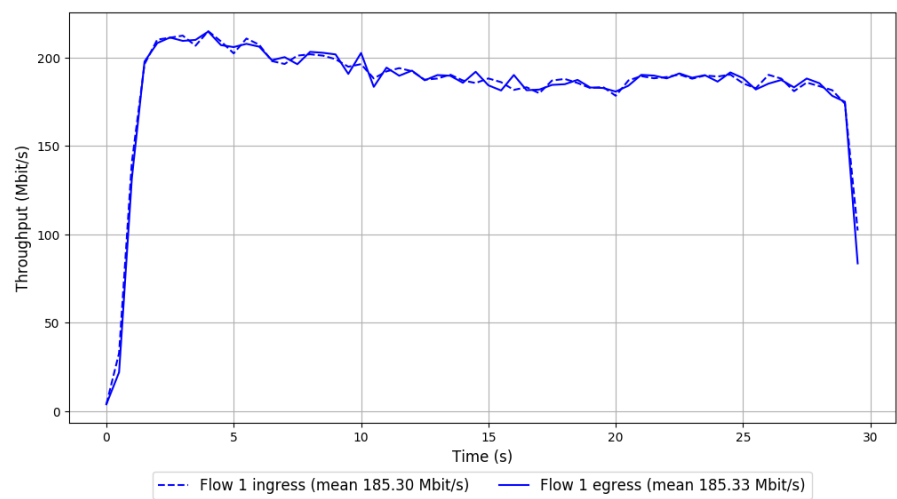
-- Flow 1:

Average throughput: 185.33 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.34%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 02:18:47

End at: 2017-11-16 02:19:17

Below is generated by plot.py at 2017-11-16 05:19:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.28 Mbit/s

95th percentile per-packet one-way delay: 52.984 ms

Loss rate: 0.55%

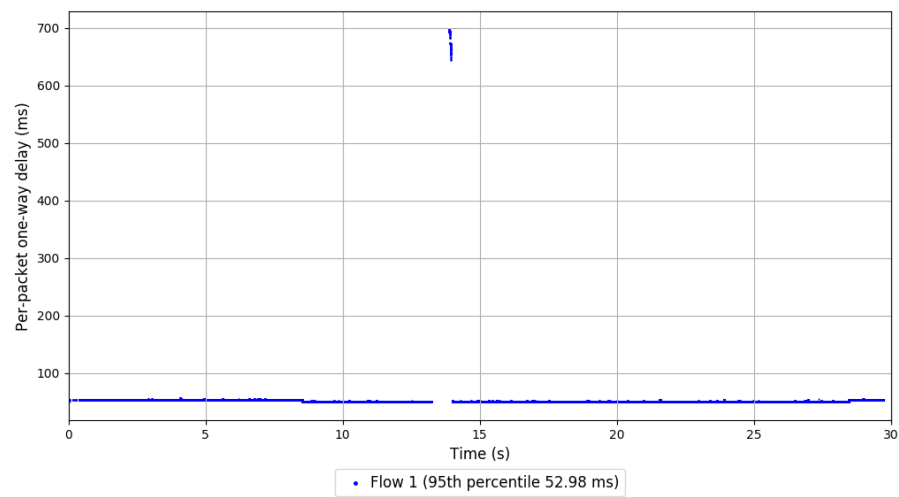
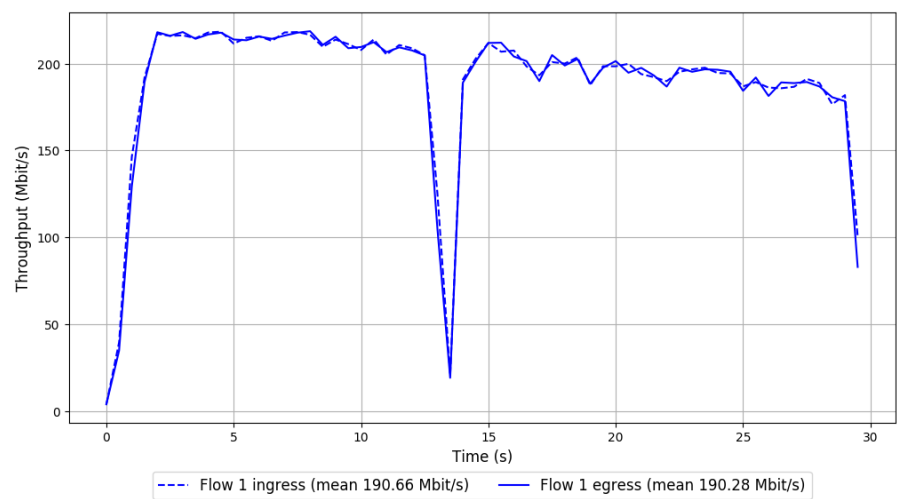
-- Flow 1:

Average throughput: 190.28 Mbit/s

95th percentile per-packet one-way delay: 52.984 ms

Loss rate: 0.55%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 02:28:58

End at: 2017-11-16 02:29:28

Below is generated by plot.py at 2017-11-16 05:19:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.69 Mbit/s

95th percentile per-packet one-way delay: 53.032 ms

Loss rate: 0.35%

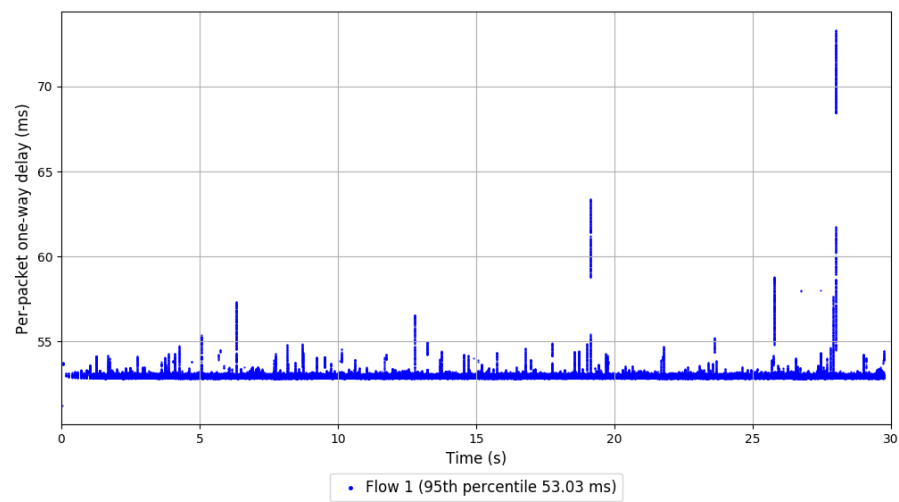
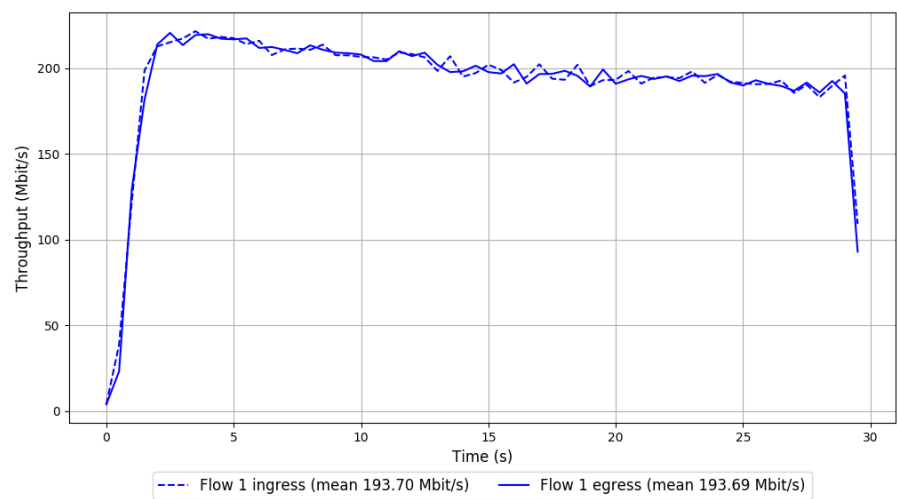
-- Flow 1:

Average throughput: 193.69 Mbit/s

95th percentile per-packet one-way delay: 53.032 ms

Loss rate: 0.35%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 02:39:21

End at: 2017-11-16 02:39:51

Below is generated by plot.py at 2017-11-16 05:19:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.64 Mbit/s

95th percentile per-packet one-way delay: 53.001 ms

Loss rate: 0.34%

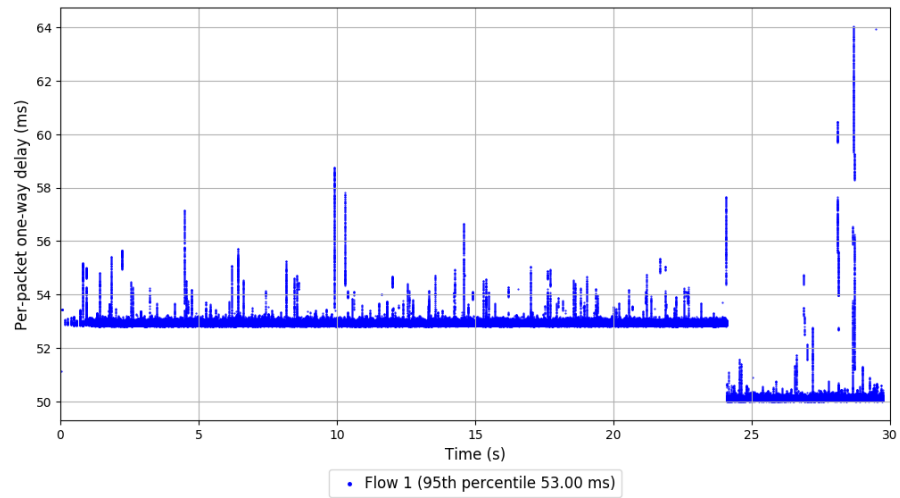
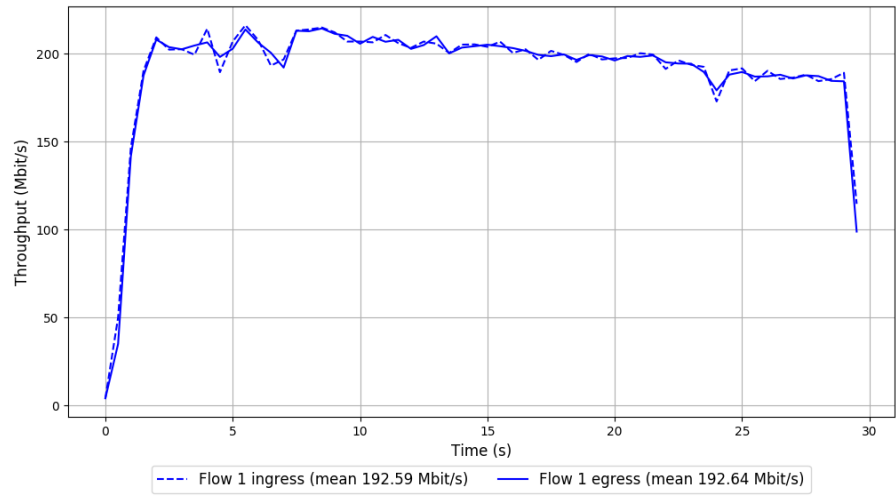
-- Flow 1:

Average throughput: 192.64 Mbit/s

95th percentile per-packet one-way delay: 53.001 ms

Loss rate: 0.34%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 02:49:48

End at: 2017-11-16 02:50:18

Below is generated by plot.py at 2017-11-16 05:19:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.61 Mbit/s

95th percentile per-packet one-way delay: 53.035 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 193.61 Mbit/s

95th percentile per-packet one-way delay: 53.035 ms

Loss rate: 0.44%

Run 10: Report of Indigo-calib — Data Link

